

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW111121\  
 Data File : VW020852.D  
 Acq On : 11 Nov 2021 13:58  
 Operator : SY/VA  
 Sample : M4615-01RE  
 Misc : 4.17g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Nov 12 06:17:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM110621SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Nov 12 06:15:35 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|--------|-----------|
| -----                         |        |       |          |           |        |           |
| Internal Standards            |        |       |          |           |        |           |
| 1) 1,4-Difluorobenzene        | 8.842  | 114   | 53918    | 25.000    | ug/L   | # 0.00    |
| 28) Chlorobenzene-d5          | 11.634 | 117   | 247665   | 25.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 13.554 | 152   | 132601   | 25.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |           |        |           |
| 4) Vinyl Chloride-d3          | 2.410  | 65    | 163      | 0.322     | ug/L   | 0.06      |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery  | =      | 1.280%#   |
| 7) Chloroethane-d5            | 2.812  | 69    | 40329    | 139.711   | ug/L   | -0.07     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery  | =      | 558.840%# |
| 11) 1,1-Dichloroethene-d2     | 3.958  | 63    | 76386    | 71.786    | ug/L   | -0.06     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery  | =      | 287.160%# |
| 21) 2-Butanone-d5             | 7.055  | 46    | 9278     | 55.108    | ug/L   | -0.02     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery  | =      | 110.220%  |
| 24) Chloroform-d              | 7.628  | 84    | 31744    | 26.497    | ug/L   | -0.02     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery  | =      | 106.000%  |
| 26) 1,2-Dichloroethane-d4     | 8.293  | 65    | 39571    | 62.045    | ug/L   | -0.01     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery  | =      | 248.200%# |
| 32) Benzene-d6                | 8.256  | 84    | 239853   | 21.435    | ug/L   | -0.02     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery  | =      | 85.760%   |
| 36) 1,2-Dichloropropane-d6    | 9.354  | 67    | 20783    | 5.999     | ug/L   | 0.09      |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery  | =      | 24.000%#  |
| 41) Toluene-d8                | 10.353 | 98    | 265017   | 24.344    | ug/L   | 0.03      |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery  | =      | 97.360%   |
| 43) trans-1,3-Dichloroprop... | 10.567 | 79    | 18956    | 11.032    | ug/L   | -0.01     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery  | =      | 44.120%   |
| 47) 2-Hexanone-d5             | 10.664 | 63    | 64       | 0.091     | ug/L   | -0.26     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery  | =      | 0.360%#   |
| 56) 1,1,2,2-Tetrachloroeth... | 12.688 | 84    | 66190    | 23.053    | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery  | =      | 92.200%   |
| 66) 1,2-Dichlorobenzene-d4    | 13.853 | 152   | 107998   | 25.916    | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery  | =      | 103.680%  |
| Target Compounds              |        |       |          |           |        |           |
|                               |        |       |          |           | Qvalue |           |
| 3) Chloromethane              | 2.001  | 50    | 723124   | 1256.981  | ug/L   | 83        |
| 13) Acetone                   | 4.159  | 43    | 1856262  | 11847.300 | ug/L   | 88        |
| 15) Methyl Acetate            | 4.684  | 43    | 3753488  | 13516.896 | ug/L   | # 85      |
| 16) Methylene chloride        | 4.867  | 84    | 4893     | 6.128     | ug/L   | 78        |
| 18) Methyl tert-butyl Ether   | 5.385  | 73    | 1022825  | 985.771   | ug/L   | # 51      |
| 22) 2-Butanone                | 7.238  | 43    | 7503     | 36.037    | ug/L   | 79        |
| 25) Chloroform                | 7.628  | 83    | 128558   | 97.237    | ug/L   | # 19      |
| 34) Trichloroethene           | 9.085  | 95    | 61623    | 15.608    | ug/L   | # 1       |
| 37) 1,2-Dichloropropane       | 9.366  | 63    | 9641     | 2.745     | ug/L   | # 1       |
| 38) Bromodichloromethane      | 9.701  | 83    | 1575928  | 320.577   | ug/L   | # 26      |
| 39) cis-1,3-Dichloropropene   | 10.079 | 75    | 2810     | 0.492     | ug/L   | # 1       |
| 42) Toluene                   | 10.414 | 91    | 38816    | 2.434     | ug/L   | 97        |
| 48) 2-Hexanone                | 10.933 | 43    | 14858    | 8.866     | ug/L   | # 53      |
| 52) Ethylbenzene              | 11.579 | 91    | 28510    | 1.595     | ug/L   | 95        |
| 53) m,p-Xylene                | 11.841 | 106   | 69216    | 9.667     | ug/L   | 86        |
| 54) o-Xylene                  | 12.164 | 106   | 5740     | 0.846     | ug/L   | 88        |
| 57) 1,1,2,2-Tetrachloroethane | 12.688 | 83    | 46083    | 15.087    | ug/L   | # 30      |
| 62) 1,3,5-Trimethylbenzene    | 12.938 | 105   | 40161    | 2.557     | ug/L   | 92        |
| 63) 1,2,4-Trimethylbenzene    | 13.243 | 105   | 70146    | 4.496     | ug/L   | 93        |

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Sample : M4615-01RE  
Misc : 4.17g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Nov 12 06:17:34 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM110621SMA.M  
Quant Title : SFAM01.0  
QLast Update : Fri Nov 12 06:15:35 2021  
Response via : Initial Calibration

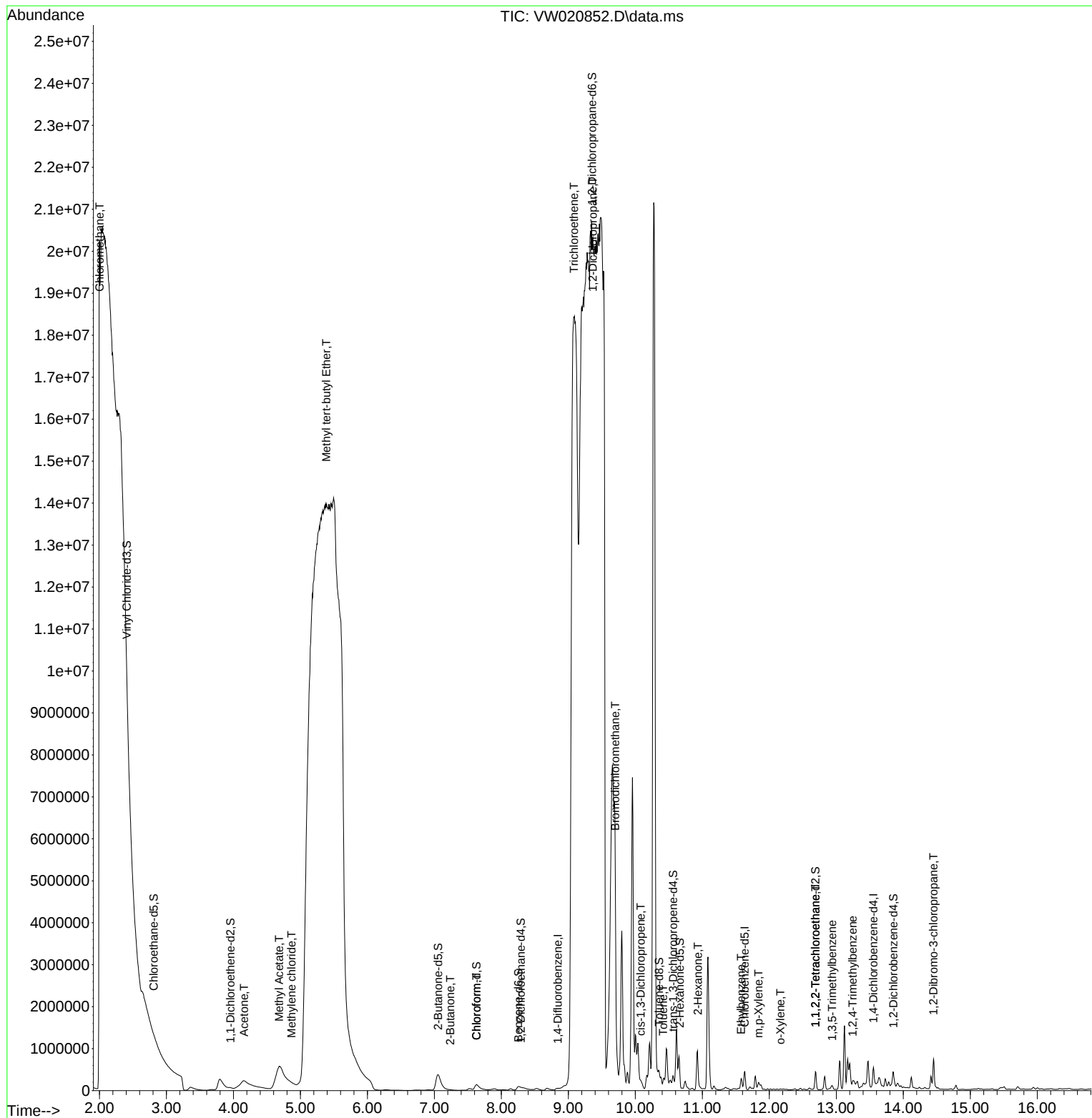
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 68) 1,2-Dibromo-3-chloropr... | 14.450 | 75   | 3712     | 6.930 | ug/L  | # 10     |

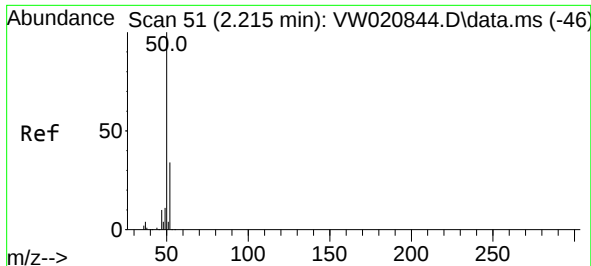
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW111121\  
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Quant Time: Nov 12 06:17:34 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM110621SMA.M  
Quant Title : SFAM01.0  
QLast Update : Fri Nov 12 06:15:35 2021  
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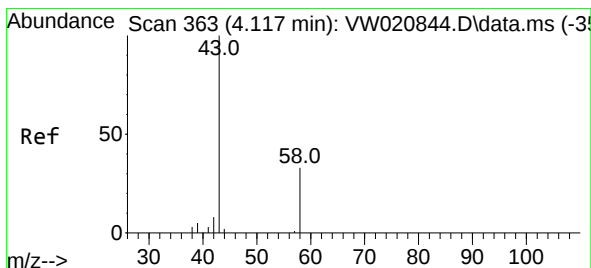
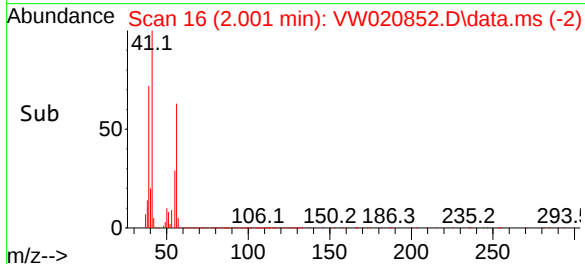
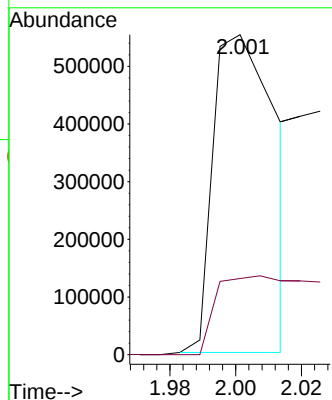
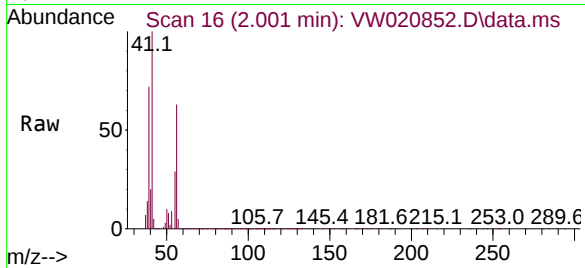




#3  
Chloromethane  
Concen: 1256.981 ug/L  
RT: 2.001 min Scan# 1  
Delta R.T. -0.213 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

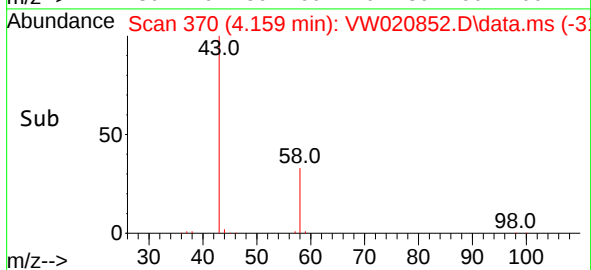
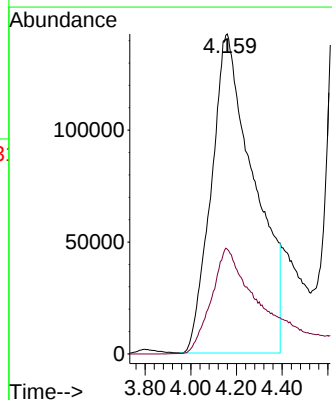
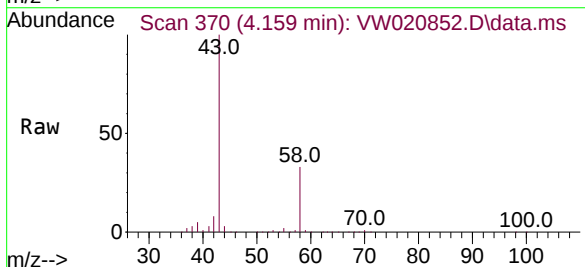
Instrument :  
MSVOA\_W  
ClientSampleId :

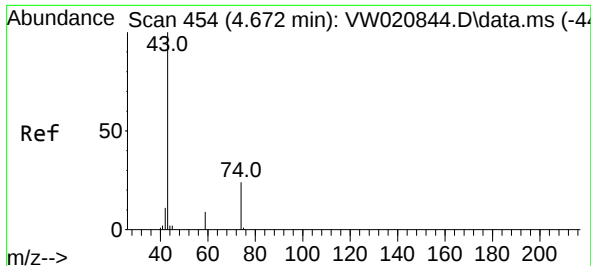
Tgt Ion: 50 Resp: 723124  
Ion Ratio Lower Upper  
50 100  
52 23.8 23.4 43.6



#13  
Acetone  
Concen: 11847.300 ug/L  
RT: 4.159 min Scan# 370  
Delta R.T. 0.043 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

Tgt Ion: 43 Resp: 1856262  
Ion Ratio Lower Upper  
43 100  
58 32.7 0.0 52.8

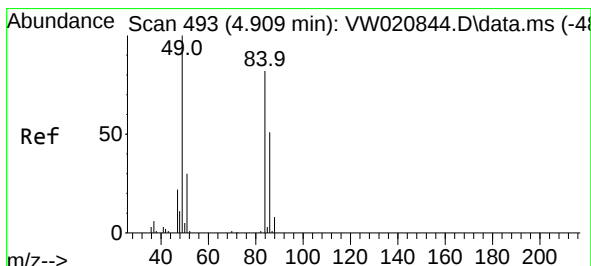
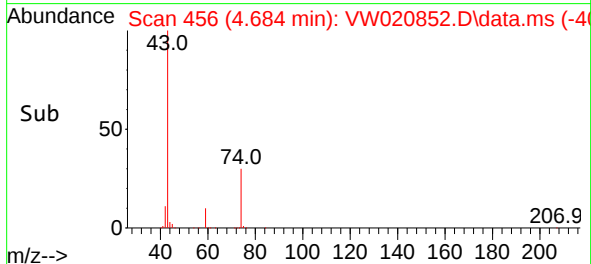
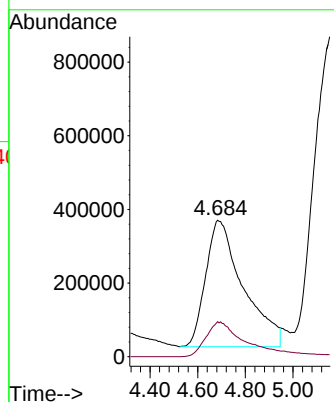
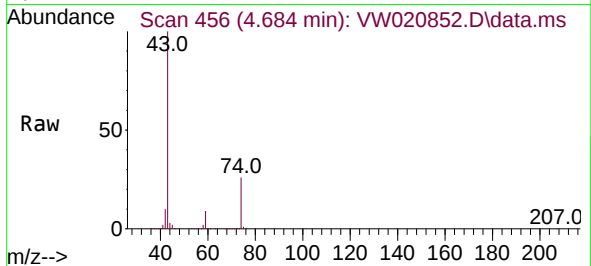




#15  
Methyl Acetate  
Concen: 13516.896 ug/L  
RT: 4.684 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

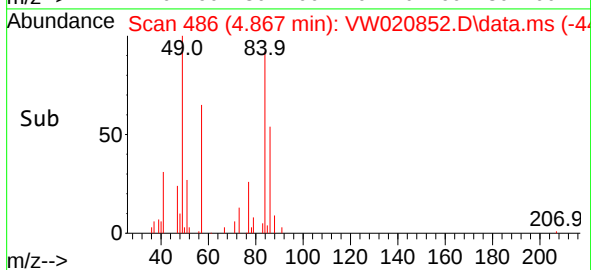
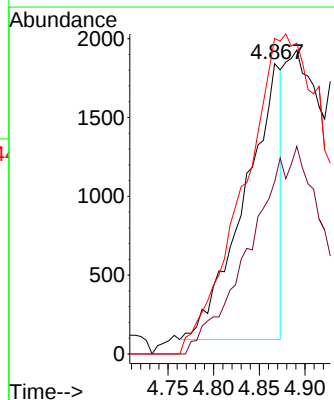
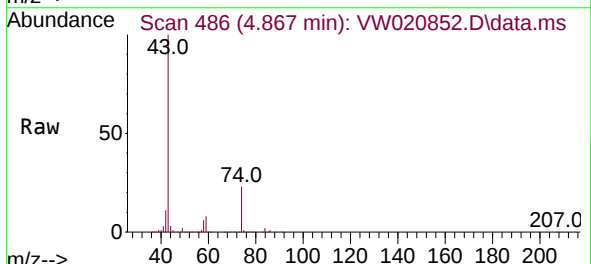
Instrument :  
MSVOA\_W  
ClientSampleId :

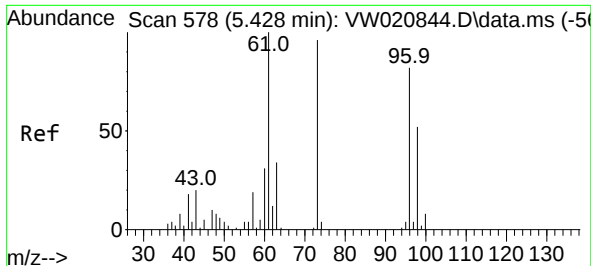
Tgt Ion: 43 Resp: 3753488  
Ion Ratio Lower Upper  
43 100  
74 27.5 16.4 24.6#



#16  
Methylene chloride  
Concen: 6.128 ug/L  
RT: 4.867 min Scan# 486  
Delta R.T. -0.043 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

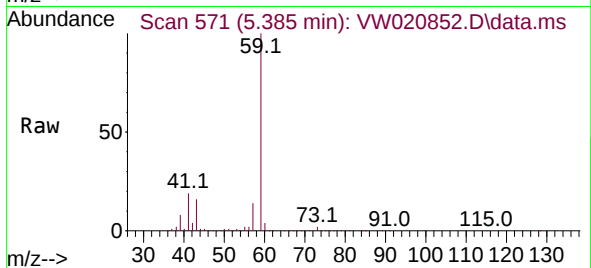
Tgt Ion: 84 Resp: 4893  
Ion Ratio Lower Upper  
84 100  
86 59.3 45.5 84.5  
49 108.7 100.5 186.7



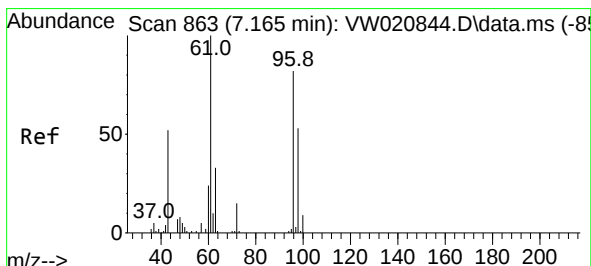
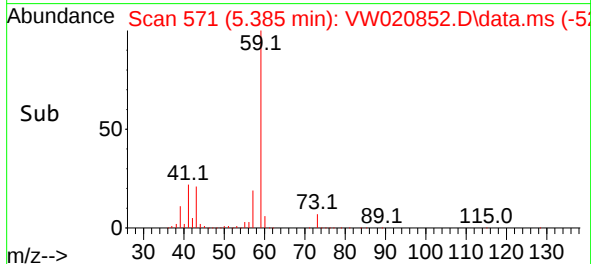
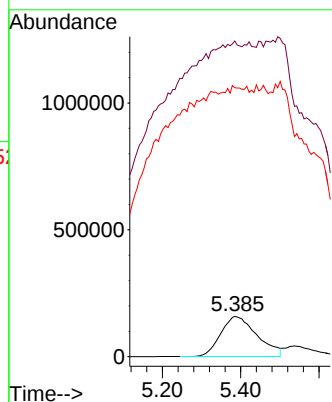


#18  
Methyl tert-butyl Ether  
Concen: 985.771 ug/L  
RT: 5.385 min Scan# 51  
Delta R.T. -0.043 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

Instrument :  
MSVOA\_W  
ClientSampleId :

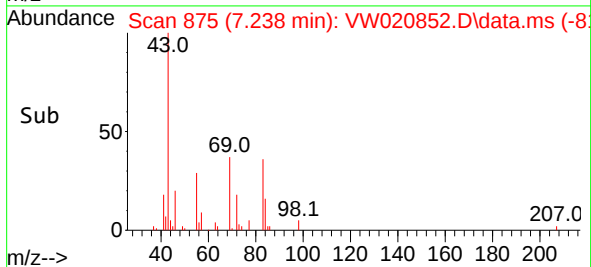
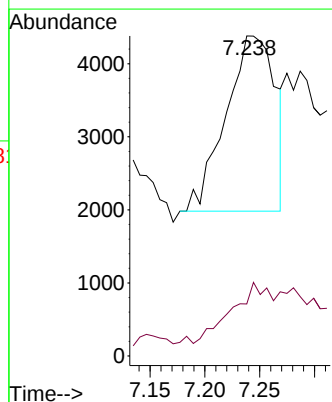
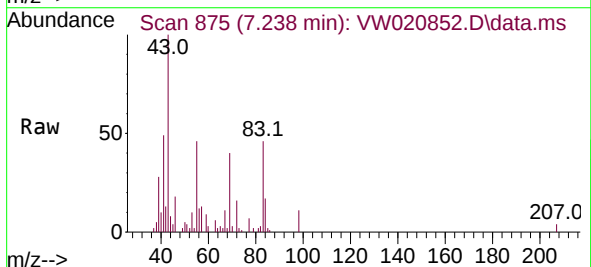


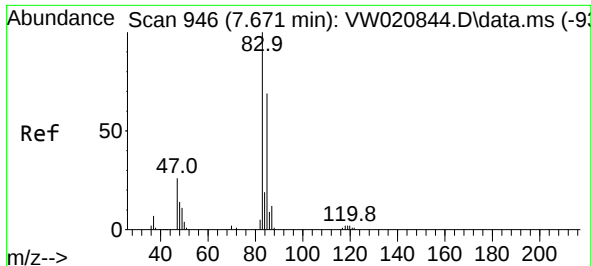
Tgt Ion: 73 Resp: 1022825  
Ion Ratio Lower Upper  
73 100  
43 0.0 19.5 29.3#  
57 0.0 19.3 28.9#



#22  
2-Butanone  
Concen: 36.037 ug/L  
RT: 7.238 min Scan# 875  
Delta R.T. 0.073 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

Tgt Ion: 43 Resp: 7503  
Ion Ratio Lower Upper  
43 100  
72 13.4 11.8 35.4

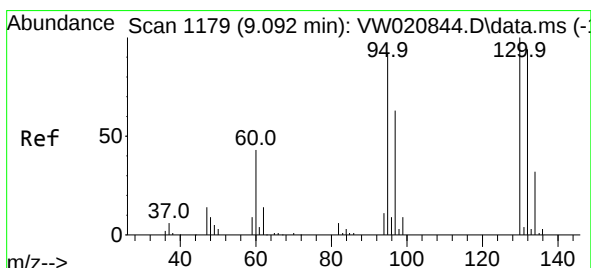
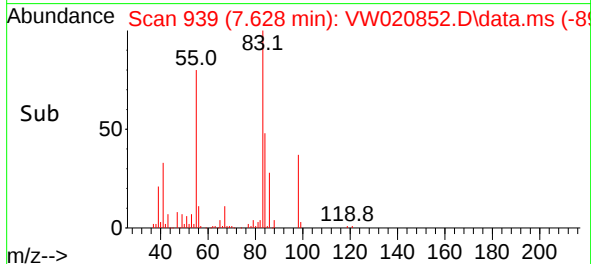
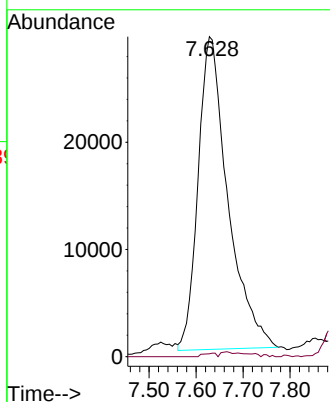
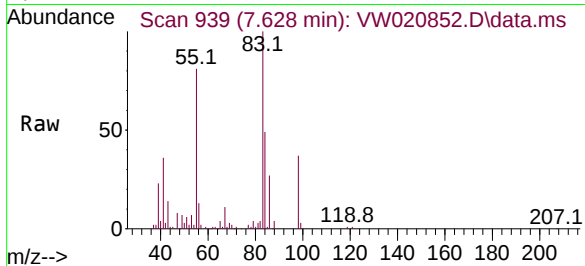




#25  
Chloroform  
Concen: 97.237 ug/L  
RT: 7.628 min Scan# 91  
Delta R.T. -0.043 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

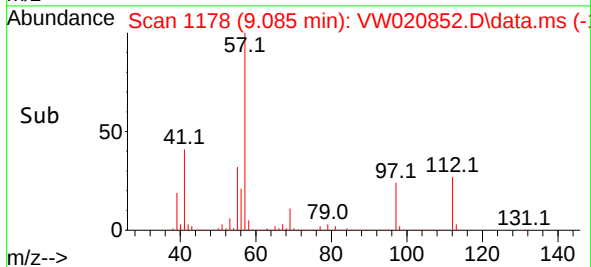
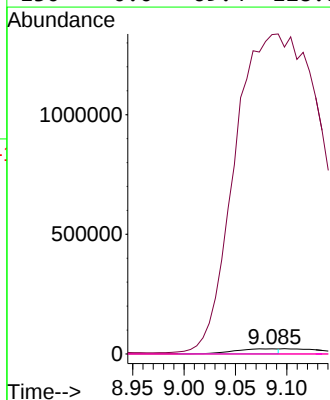
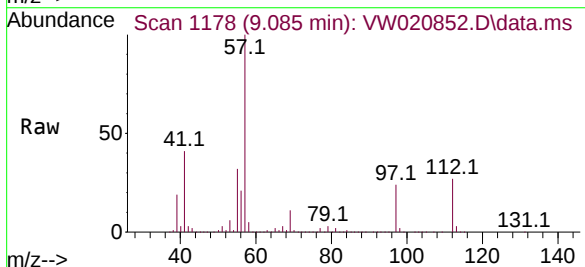
Instrument :  
MSVOA\_W  
ClientSampleId :

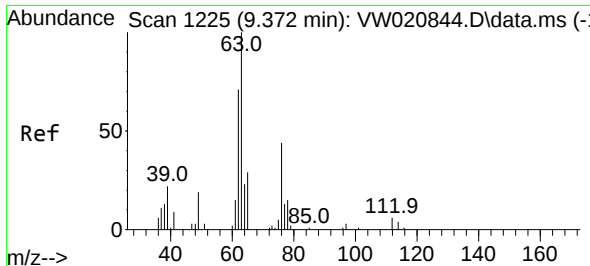
Tgt Ion: 83 Resp: 128558  
Ion Ratio Lower Upper  
83 100  
85 0.9 45.1 83.7#



#34  
Trichloroethene  
Concen: 15.608 ug/L  
RT: 9.085 min Scan# 1178  
Delta R.T. -0.006 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

Tgt Ion: 95 Resp: 61623  
Ion Ratio Lower Upper  
95 100  
97 6270.1 47.0 87.2#  
132 0.0 65.5 121.6#  
130 0.0 69.4 128.8#





#37

1,2-Dichloropropane

Concen: 2.745 ug/L

RT: 9.366 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW020852.D

Acq: 11 Nov 2021 13:58

Instrument :

MSVOA\_W

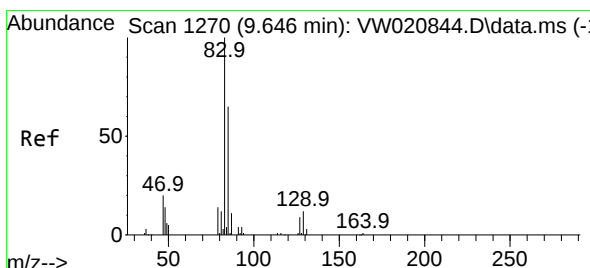
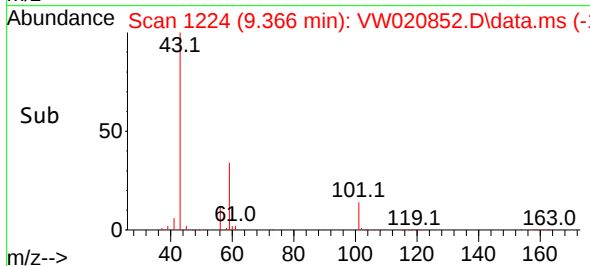
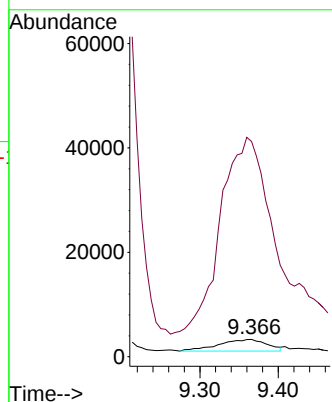
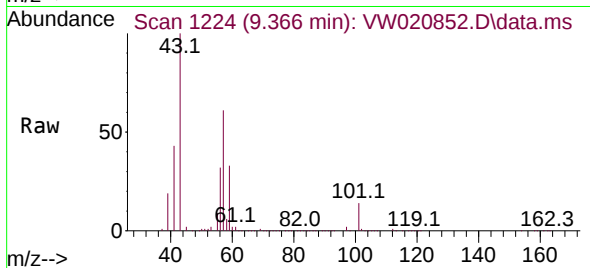
ClientSampleId :

Tgt Ion: 63 Resp: 9641

Ion Ratio Lower Upper

63 100

112 1761.6 3.2 4.8#



#38

Bromodichloromethane

Concen: 320.577 ug/L

RT: 9.701 min Scan# 1279

Delta R.T. 0.055 min

Lab File: VW020852.D

Acq: 11 Nov 2021 13:58

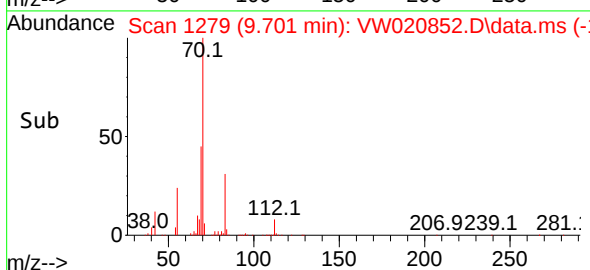
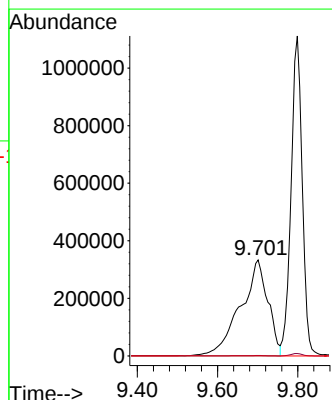
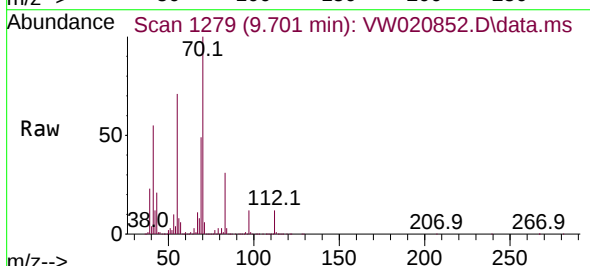
Tgt Ion: 83 Resp: 1575928

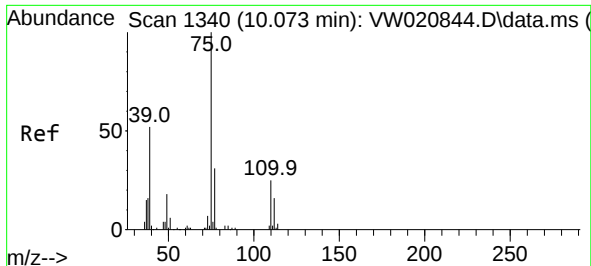
Ion Ratio Lower Upper

83 100

85 0.5 44.1 81.9#

127 0.0 6.1 9.1#

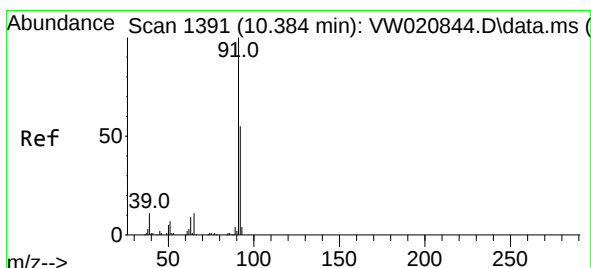
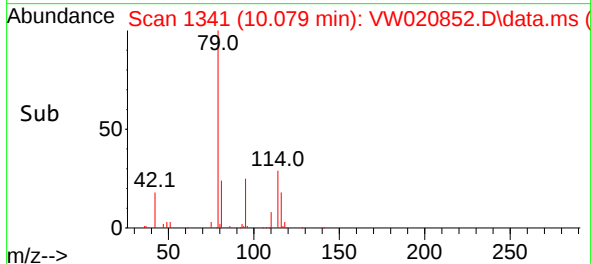
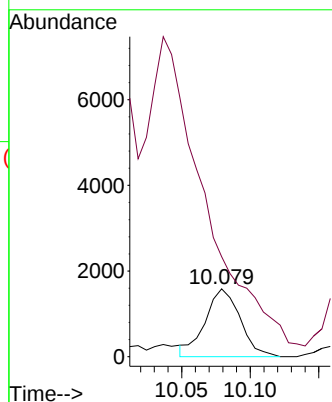
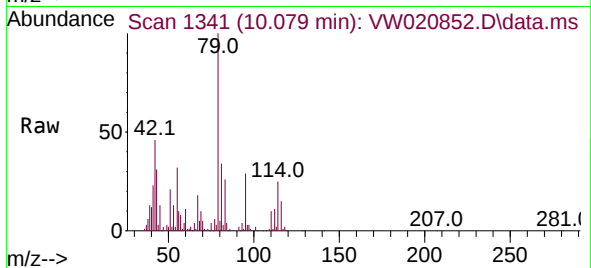




#39  
cis-1,3-Dichloropropene  
Concen: 0.492 ug/L  
RT: 10.079 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

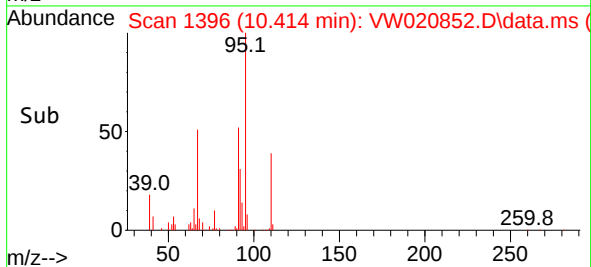
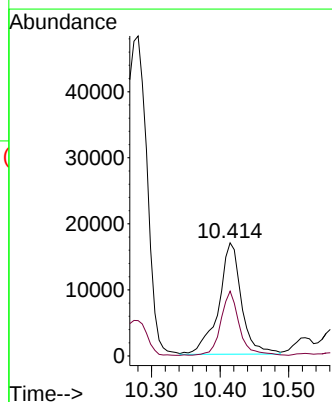
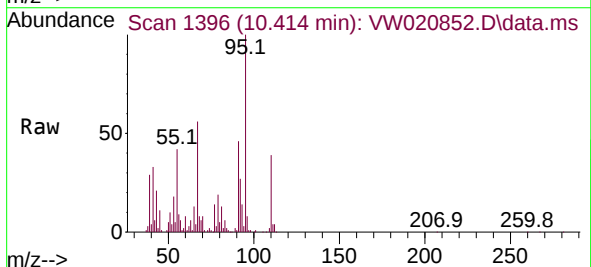
Instrument :  
MSVOA\_W  
ClientSampleId :

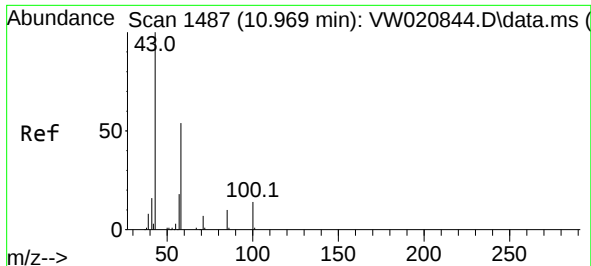
Tgt Ion: 75 Resp: 2810  
Ion Ratio Lower Upper  
75 100  
77 147.3 21.8 40.6#



#42  
Toluene  
Concen: 2.434 ug/L  
RT: 10.414 min Scan# 1396  
Delta R.T. 0.030 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

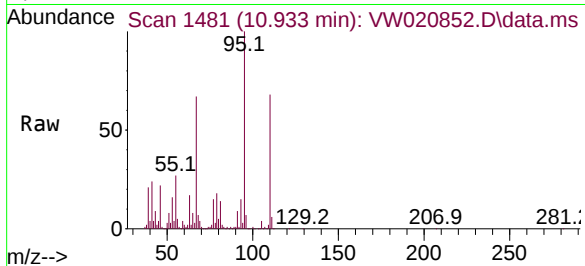
Tgt Ion: 91 Resp: 38816  
Ion Ratio Lower Upper  
91 100  
92 57.2 41.7 77.5



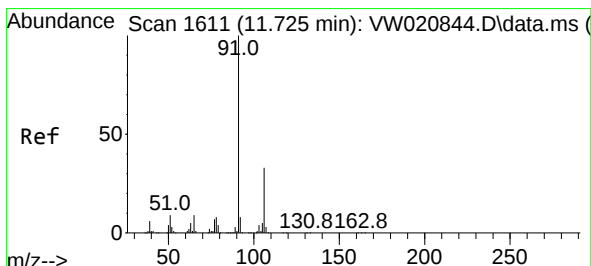
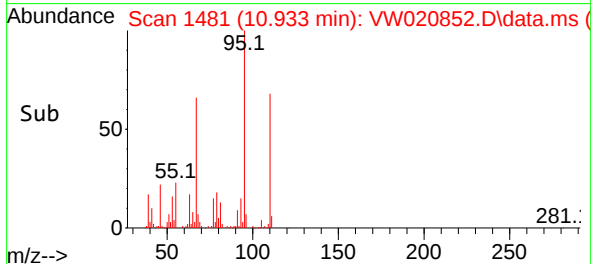
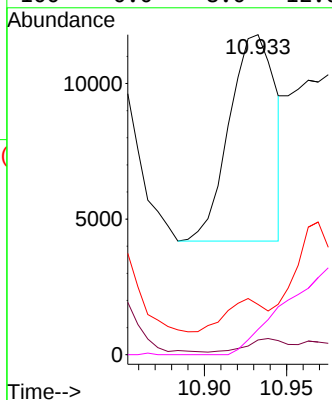


#48  
2-Hexanone  
Concen: 8.866 ug/L  
RT: 10.933 min Scan# 14858  
Delta R.T. -0.037 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

Instrument :  
MSVOA\_W  
ClientSampleId :

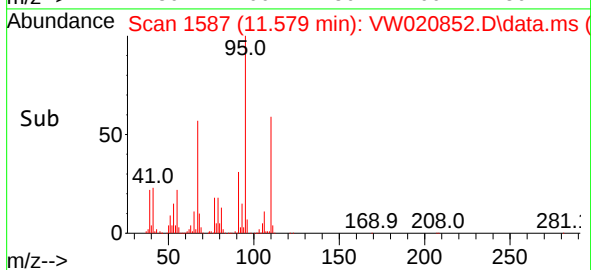
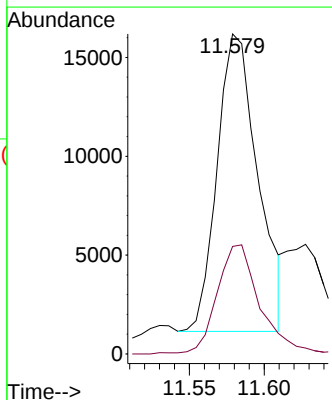
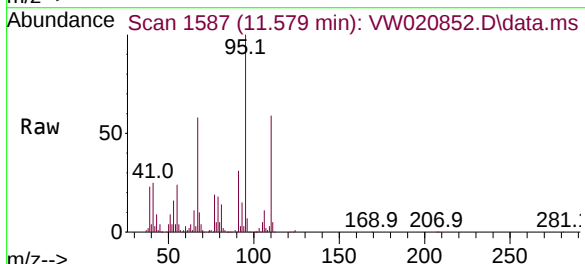


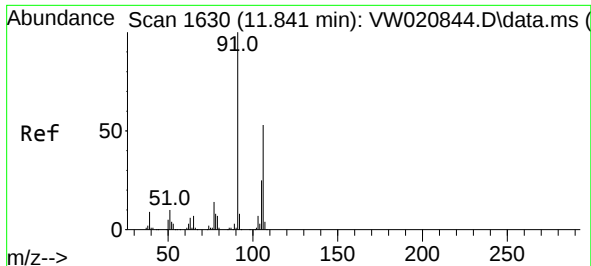
Tgt Ion: 43 Resp: 14858  
Ion Ratio Lower Upper  
43 100  
58 5.9 40.2 60.2#  
57 13.4 14.3 21.5#  
100 0.0 8.0 12.0#



#52  
Ethylbenzene  
Concen: 1.595 ug/L  
RT: 11.579 min Scan# 1587  
Delta R.T. -0.146 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

Tgt Ion: 91 Resp: 28510  
Ion Ratio Lower Upper  
91 100  
106 33.6 21.5 39.9

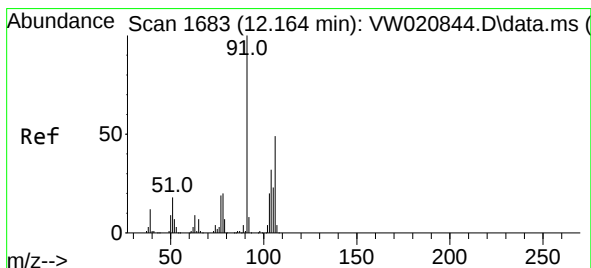
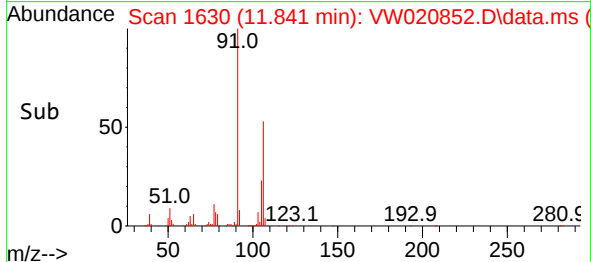
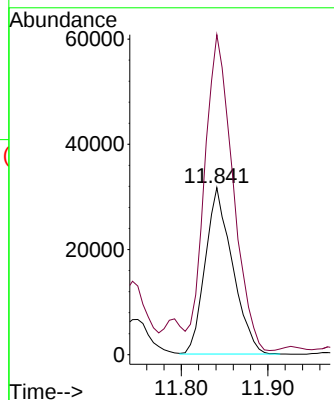
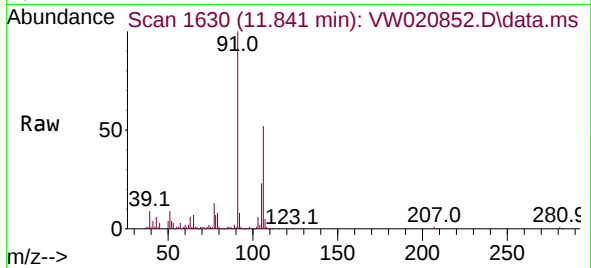




#53  
m,p-Xylene  
Concen: 9.667 ug/L  
RT: 11.841 min Scan# 1630  
Delta R.T. -0.000 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

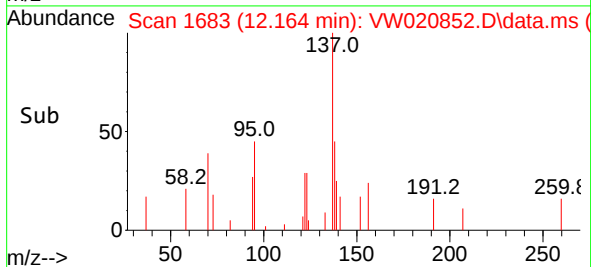
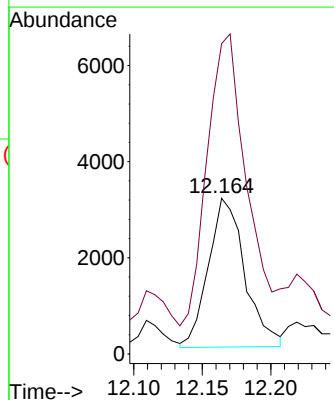
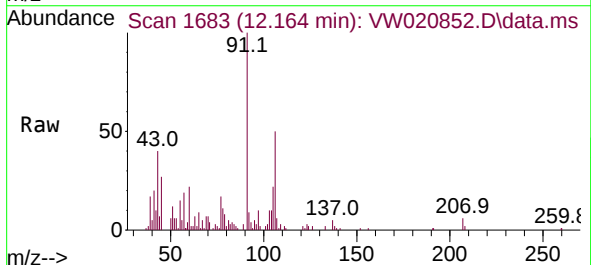
Instrument :  
MSVOA\_W  
ClientSampleId :

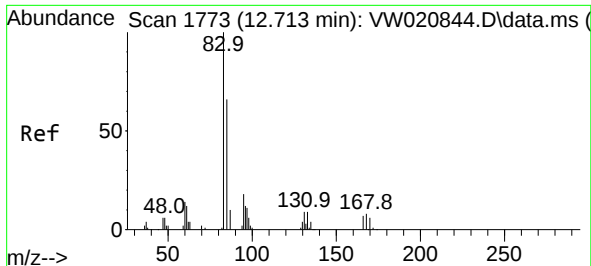
Tgt Ion:106 Resp: 69216  
Ion Ratio Lower Upper  
106 100  
91 191.6 149.9 278.3



#54  
o-Xylene  
Concen: 0.846 ug/L  
RT: 12.164 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: VW020852.D  
Acq: 11 Nov 2021 13:58

Tgt Ion:106 Resp: 5740  
Ion Ratio Lower Upper  
106 100  
91 199.4 153.6 285.3





#57

1,1,2,2-Tetrachloroethane

Concen: 15.087 ug/L

RT: 12.688 min Scan# 1769

Delta R.T. -0.024 min

Lab File: VW020852.D

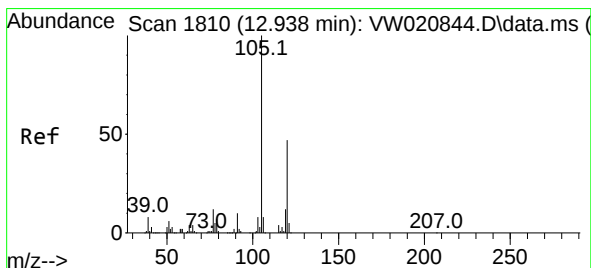
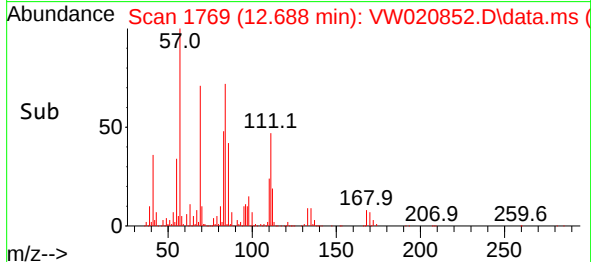
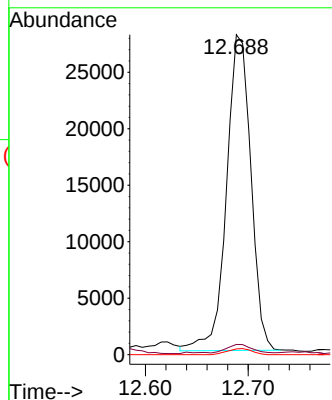
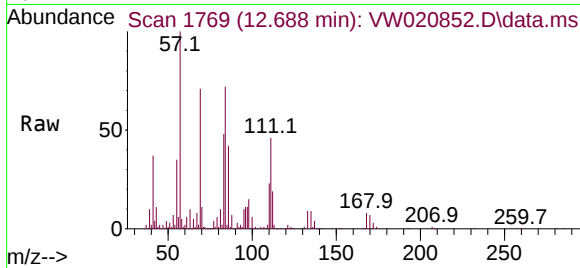
Acq: 11 Nov 2021 13:58

Instrument :

MSVOA\_W

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 46083 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 3.2   | 44.0  | 81.6# |
| 131      | 1.8   | 6.9   | 10.3# |



#62

1,3,5-Trimethylbenzene

Concen: 2.557 ug/L

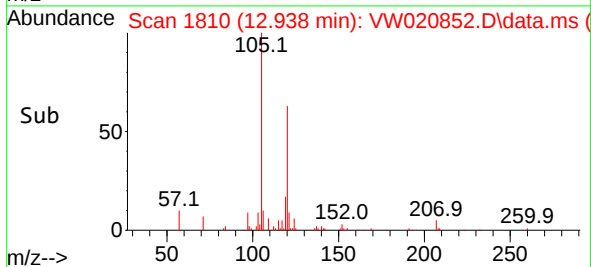
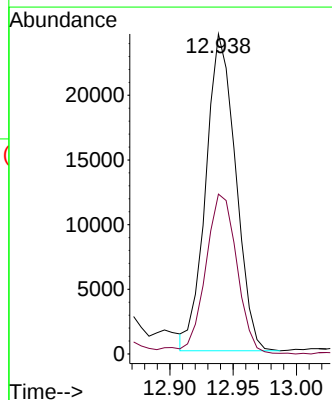
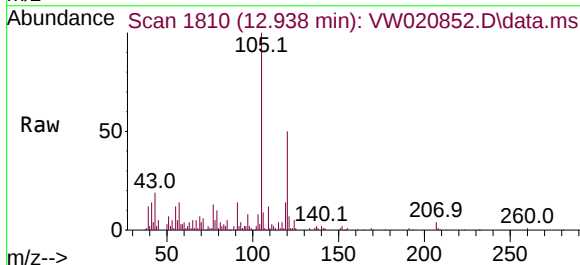
RT: 12.938 min Scan# 1810

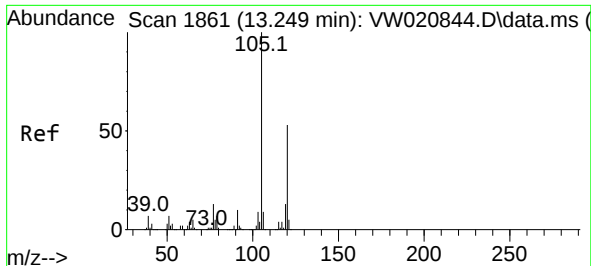
Delta R.T. -0.000 min

Lab File: VW020852.D

Acq: 11 Nov 2021 13:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 40161 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 52.0  | 37.4  | 56.2  |





#63

1,2,4-Trimethylbenzene

Concen: 4.496 ug/L

RT: 13.243 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW020852.D

Acq: 11 Nov 2021 13:58

Instrument :

MSVOA\_W

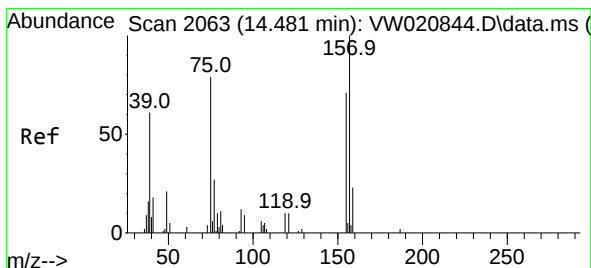
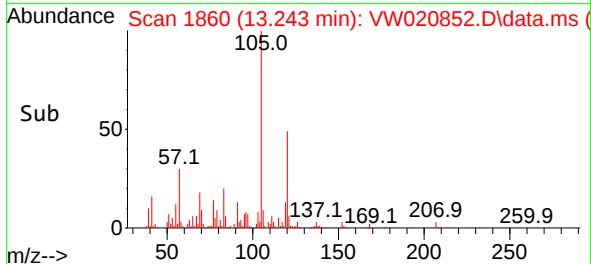
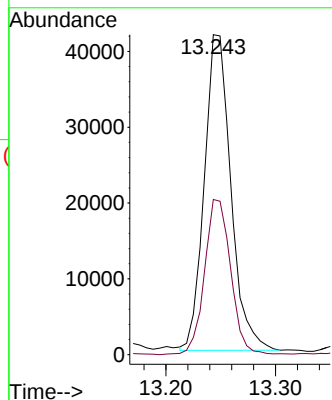
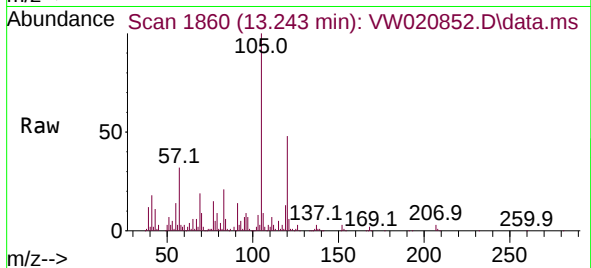
ClientSampleId :

Tgt Ion:105 Resp: 70146

Ion Ratio Lower Upper

105 100

120 48.3 35.0 52.6



#68

1,2-Dibromo-3-chloropropane

Concen: 6.930 ug/L

RT: 14.450 min Scan# 2058

Delta R.T. -0.030 min

Lab File: VW020852.D

Acq: 11 Nov 2021 13:58

Tgt Ion: 75 Resp: 3712

Ion Ratio Lower Upper

75 100

155 0.0 54.2 81.2#

157 0.0 69.4 104.2#

