

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW011122\  
 Data File : VW021850.D  
 Acq On : 11 Jan 2022 22:32  
 Operator : SY/VA  
 Sample : N1084-09  
 Misc : 6.05g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jan 12 00:53:26 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM011122SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Jan 12 00:49:08 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)   |
|-------------------------------|--------|-------|----------|----------|--------|------------|
| -----                         |        |       |          |          |        |            |
| Internal Standards            |        |       |          |          |        |            |
| 1) 1,4-Difluorobenzene        | 8.841  | 114   | 147025   | 25.000   | ug/L   | # 0.00     |
| 28) Chlorobenzene-d5          | 11.646 | 117   | 72248    | 25.000   | ug/L   | 0.01       |
| 58) 1,4-Dichlorobenzene-d4    | 13.554 | 152   | 166175   | 25.000   | ug/L   | # 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |            |
| 4) Vinyl Chloride-d3          | 2.355  | 65    | 44717    | 16.364   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 65.440%    |
| 7) Chloroethane-d5            | 2.885  | 69    | 35158    | 14.247   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 57.000%    |
| 11) 1,1-Dichloroethene-d2     | 4.025  | 63    | 52953    | 12.274   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 49.080%    |
| 21) 2-Butanone-d5             | 7.073  | 46    | 25090    | 65.049   | ug/L   | -0.01      |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 130.100%   |
| 24) Chloroform-d              | 7.653  | 84    | 91989    | 19.367   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 77.480%    |
| 26) 1,2-Dichloroethane-d4     | 8.311  | 65    | 49660    | 21.651   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 86.600%    |
| 32) Benzene-d6                | 8.274  | 84    | 171652   | 36.615   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 146.480%#  |
| 36) 1,2-Dichloropropane-d6    | 9.274  | 67    | 49636    | 40.171   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 160.680%#  |
| 41) Toluene-d8                | 10.329 | 98    | 152964   | 32.368   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 129.480%   |
| 43) trans-1,3-Dichloroprop... | 10.585 | 79    | 16296    | 31.063   | ug/L   | 0.00       |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 124.240%   |
| 47) 2-Hexanone-d5             | 10.926 | 63    | 19423    | 115.844  | ug/L   | 0.00       |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 231.680%#  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.676 | 84    | 589117   | 609.716  | ug/L   | -0.02      |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 2438.880%# |
| 66) 1,2-Dichlorobenzene-d4    | 13.877 | 152   | 73486    | 10.755   | ug/L   | 0.02       |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 43.000%#   |
| Target Compounds              |        |       |          |          |        |            |
|                               |        |       |          |          | Qvalue |            |
| 13) Acetone                   | 4.123  | 43    | 16255    | 51.010   | ug/L   | 98         |
| 14) Carbon disulfide          | 4.385  | 76    | 27259    | 4.744    | ug/L   | 98         |
| 20) cis-1,2-Dichloroethene    | 7.177  | 96    | 80599    | 33.040   | ug/L   | # 64       |
| 22) 2-Butanone                | 7.171  | 43    | 5866     | 14.401   | ug/L   | 81         |
| 29) Cyclohexane               | 7.957  | 56    | 231353   | 143.139  | ug/L   | 96         |
| 33) Benzene                   | 8.329  | 78    | 5078838  | 1146.427 | ug/L   | 100        |
| 34) Trichloroethene           | 9.097  | 95    | 1927     | 1.499    | ug/L   | # 19       |
| 35) Methylcyclohexane         | 9.341  | 83    | 528618   | 250.103  | ug/L   | 86         |
| 37) 1,2-Dichloropropane       | 9.335  | 63    | 4938     | 5.116    | ug/L   | # 1        |
| 38) Bromodichloromethane      | 9.622  | 83    | 7544     | 5.599    | ug/L   | # 45       |
| 39) cis-1,3-Dichloropropene   | 10.036 | 75    | 1627     | 1.085    | ug/L   | # 60       |
| 40) 4-Methyl-2-pentanone      | 10.256 | 43    | 11787    | 25.999   | ug/L   | # 72       |
| 42) Toluene                   | 10.390 | 91    | 8208703  | 1652.086 | ug/L   | 96         |
| 45) 1,1,2-Trichloroethane     | 10.768 | 97    | 139935   | 170.775  | ug/L   | # 21       |
| 46) Tetrachloroethene         | 10.865 | 164   | 17989    | 14.154   | ug/L   | 91         |
| 48) 2-Hexanone                | 10.945 | 43    | 438372   | 1413.194 | ug/L   | # 25       |
| 51) Chlorobenzene             | 11.664 | 112   | 27304    | 7.783    | ug/L   | 97         |
| 53) m,p-Xylene                | 11.835 | 106   | 10031209 | 4346.179 | ug/L   | # 38       |
| 54) o-Xylene                  | 12.176 | 106   | 14744984 | 6881.404 | ug/L   | # 37       |

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Quant Time: Jan 12 00:53:26 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM011122SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Jan 12 00:49:08 2022  
 Response via : Initial Calibration

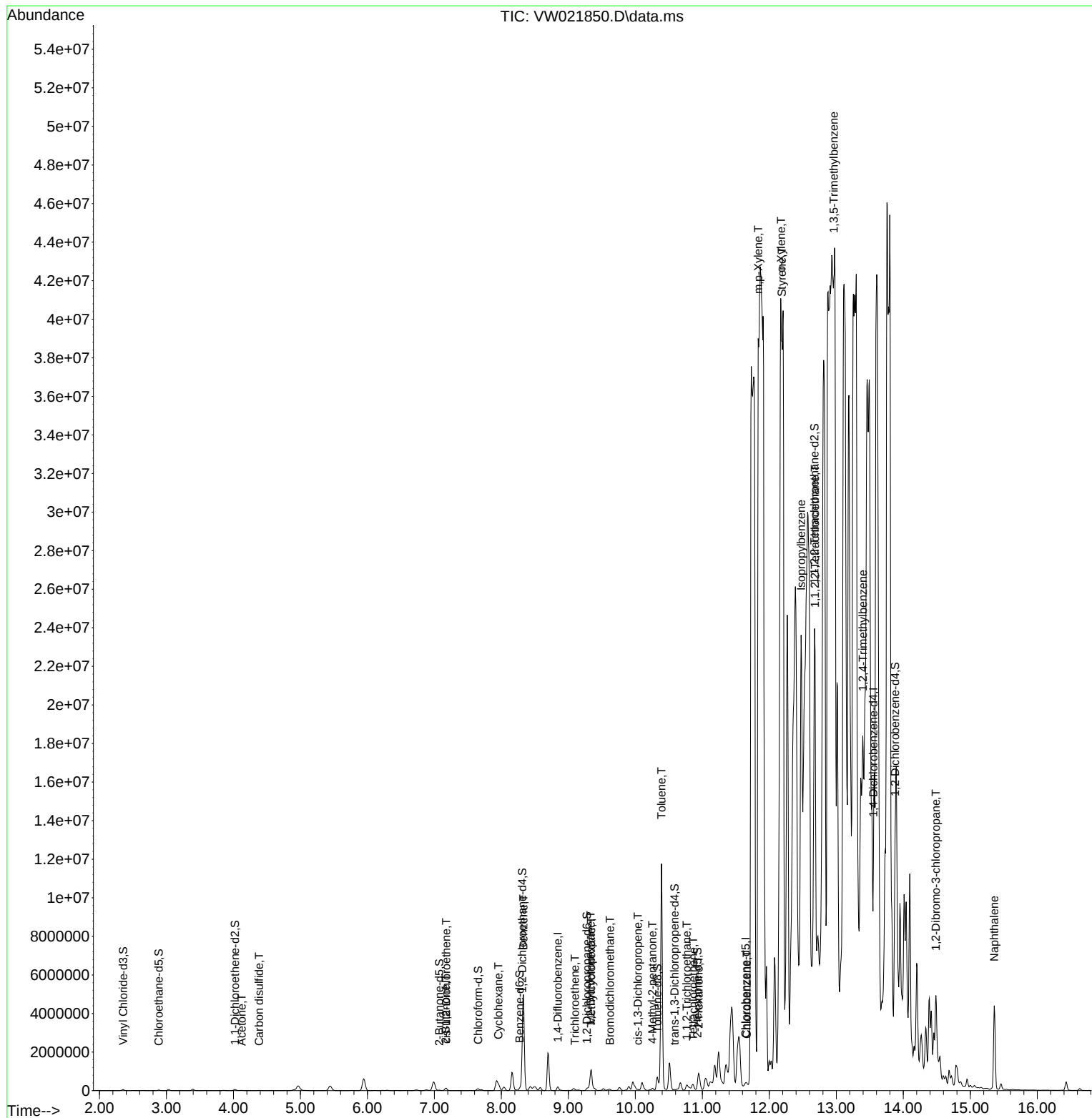
| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 55) Styrene                   | 12.188 | 104  | 1297106  | 366.671 | ug/L # | 1        |
| 57) 1,1,2,2-Tetrachloroethane | 12.682 | 83   | 533358   | 604.964 | ug/L # | 46       |
| 60) Isopropylbenzene          | 12.475 | 105  | 10925012 | 482.787 | ug/L   | 93       |
| 62) 1,3,5-Trimethylbenzene    | 12.963 | 105  | 861789   | 45.989  | ug/L # | 1        |
| 63) 1,2,4-Trimethylbenzene    | 13.395 | 105  | 5254452  | 284.315 | ug/L # | 33       |
| 68) 1,2-Dibromo-3-chloropr... | 14.487 | 75   | 97866    | 213.401 | ug/L # | 12       |
| 71) Naphthalene               | 15.358 | 128  | 3825466  | 368.055 | ug/L   | 99       |

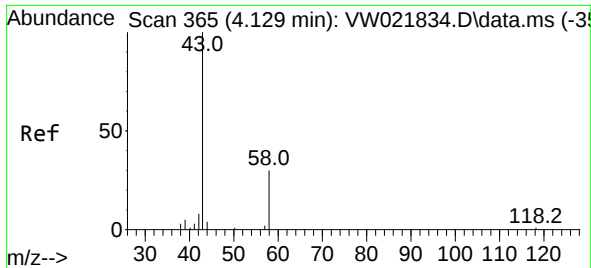
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0  
QLast Update : Wed Jan 12 00:49:08 2022  
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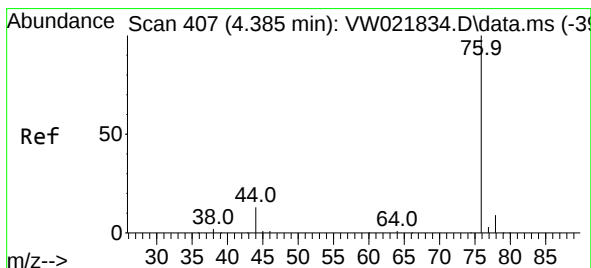
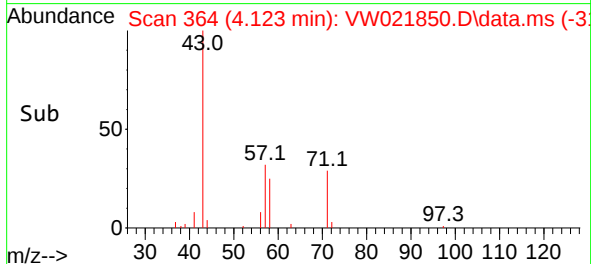
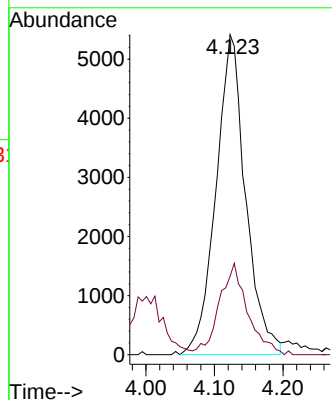
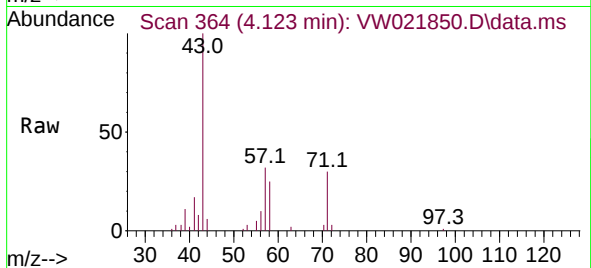




#13  
Acetone  
Concen: 51.010 ug/L  
RT: 4.123 min Scan# 364  
Delta R.T. -0.006 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

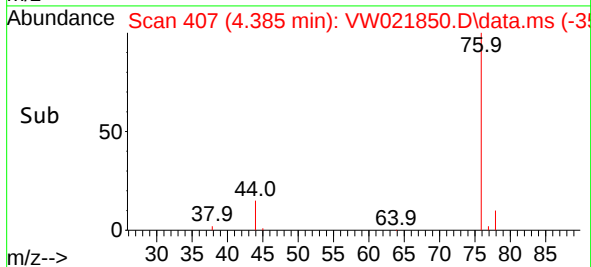
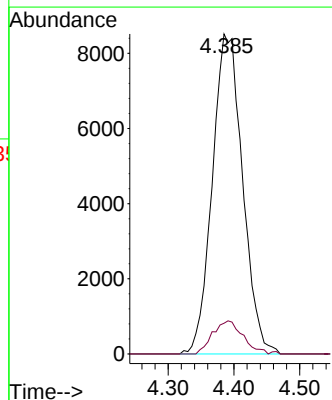
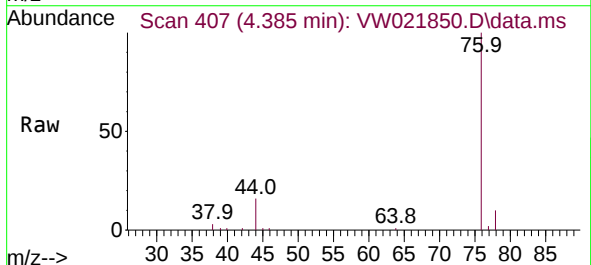
Instrument :  
MSVOA\_W  
ClientSampleId :

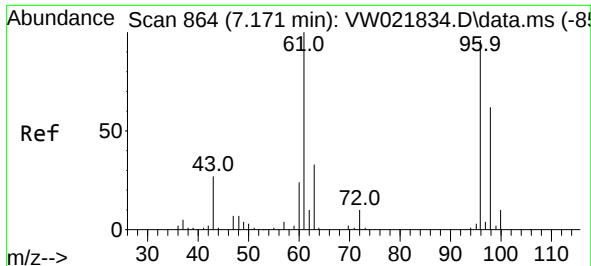
Tgt Ion: 43 Resp: 16255  
Ion Ratio Lower Upper  
43 100  
58 27.3 0.0 52.8



#14  
Carbon disulfide  
Concen: 4.744 ug/L  
RT: 4.385 min Scan# 407  
Delta R.T. -0.000 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

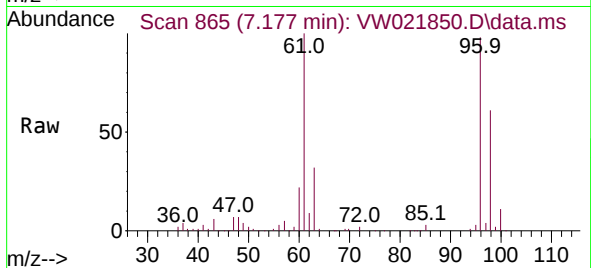
Tgt Ion: 76 Resp: 27259  
Ion Ratio Lower Upper  
76 100  
78 9.6 7.1 10.7



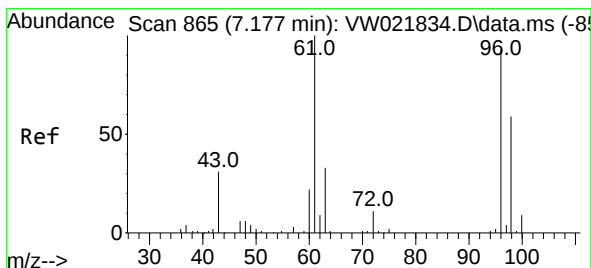
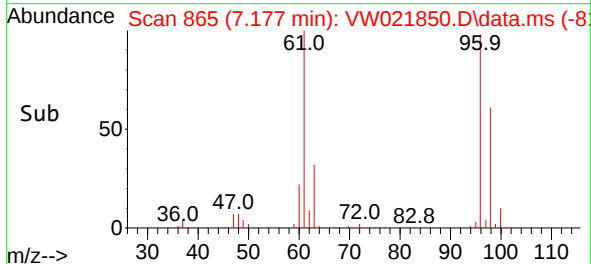
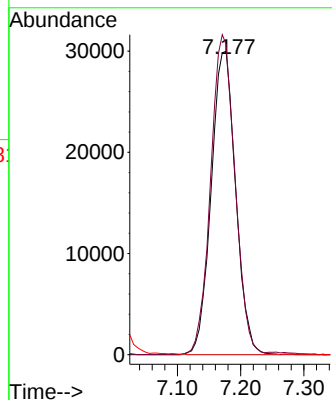


#20  
 cis-1,2-Dichloroethene  
 Concen: 33.040 ug/L  
 RT: 7.177 min Scan# 80  
 Delta R.T. 0.006 min  
 Lab File: VW021850.D  
 Acq: 11 Jan 2022 22:32

Instrument :  
 MSVOA\_W  
 ClientSampleId :

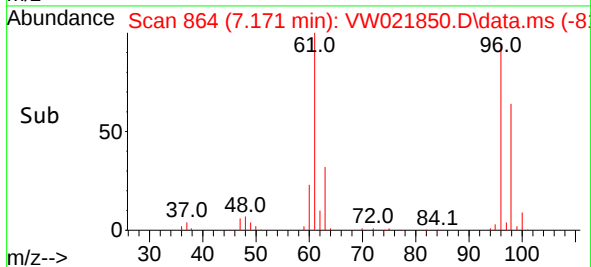
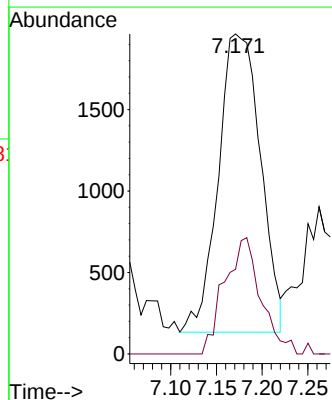
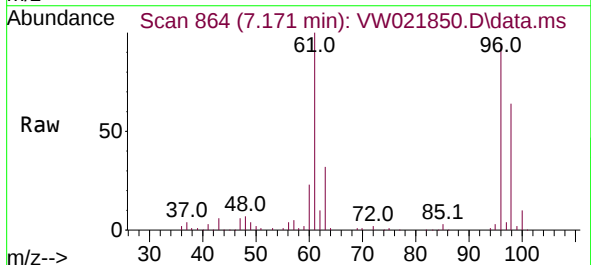


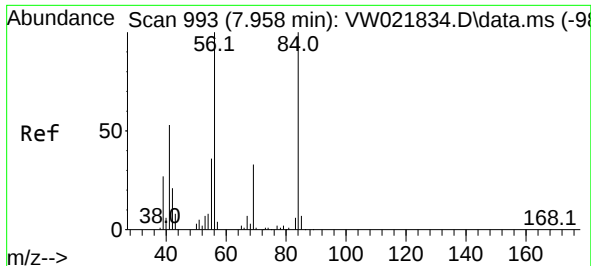
Tgt Ion: 96 Resp: 80599  
 Ion Ratio Lower Upper  
 96 100  
 61 102.2 103.7 192.7#  
 68 0.0 0.0 0.0



#22  
 2-Butanone  
 Concen: 14.401 ug/L  
 RT: 7.171 min Scan# 864  
 Delta R.T. -0.006 min  
 Lab File: VW021850.D  
 Acq: 11 Jan 2022 22:32

Tgt Ion: 43 Resp: 5866  
 Ion Ratio Lower Upper  
 43 100  
 72 33.0 11.8 35.4





#29

Cyclohexane

Concen: 143.139 ug/L

RT: 7.957 min Scan# 993

Delta R.T. -0.000 min

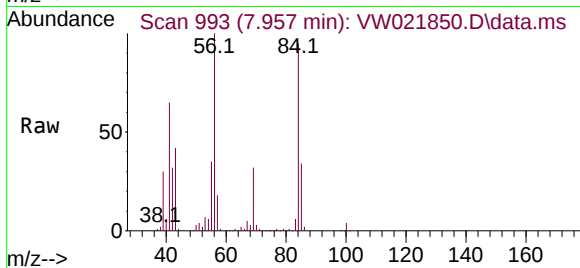
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Acq: 11 Jan 2022 22:32

Instrument :

MSVOA\_W

ClientSampleId :



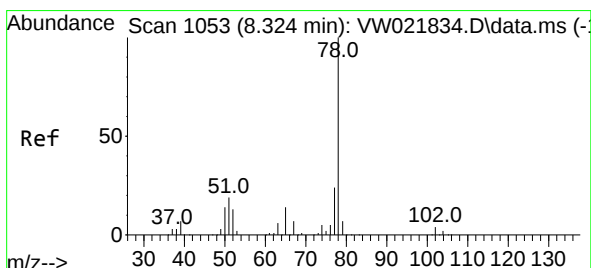
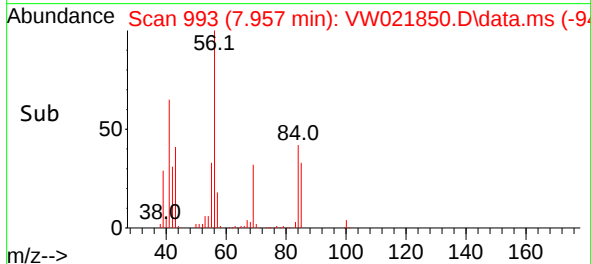
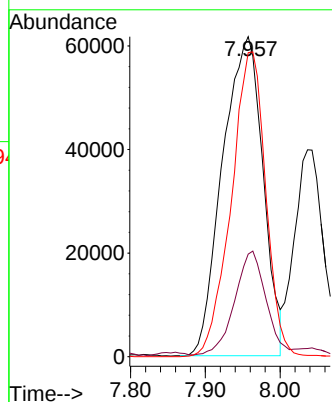
Tgt Ion: 56 Resp: 231353

Ion Ratio Lower Upper

56 100

69 25.0 23.5 35.3

84 81.5 63.4 95.2



#33

Benzene

Concen: 1146.427 ug/L

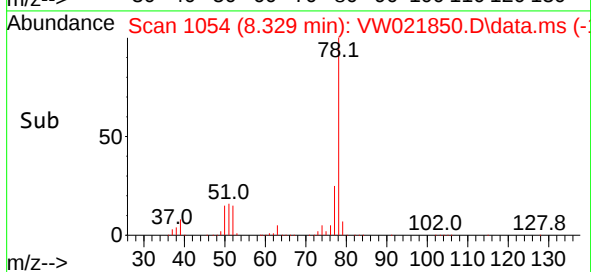
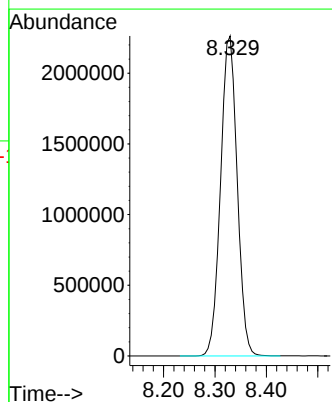
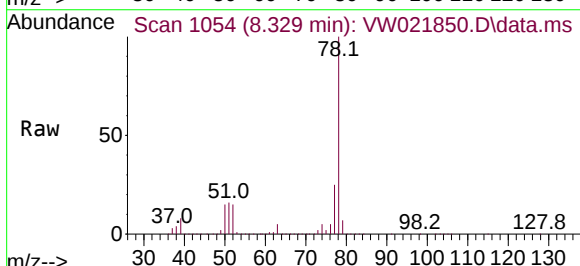
RT: 8.329 min Scan# 1054

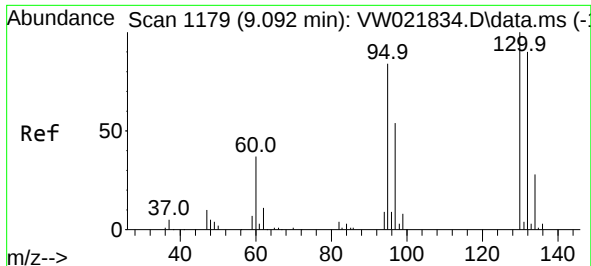
Delta R.T. 0.006 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

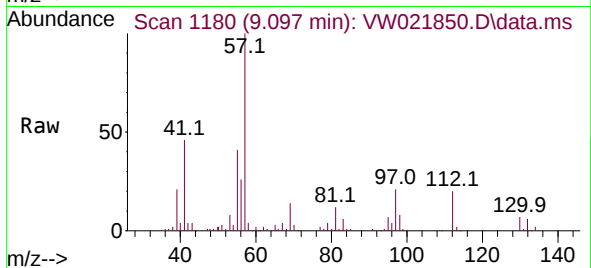
Tgt Ion: 78 Resp: 5078838



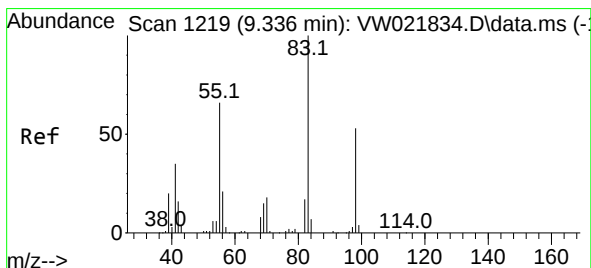
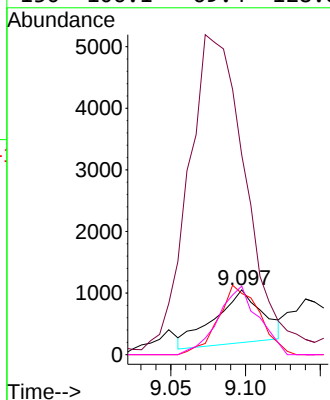
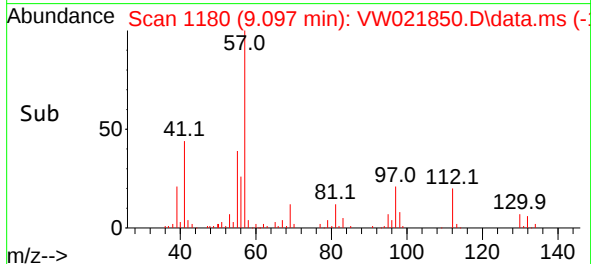


#34  
Trichloroethene  
Concen: 1.499 ug/L  
RT: 9.097 min Scan# 1179  
Delta R.T. 0.006 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

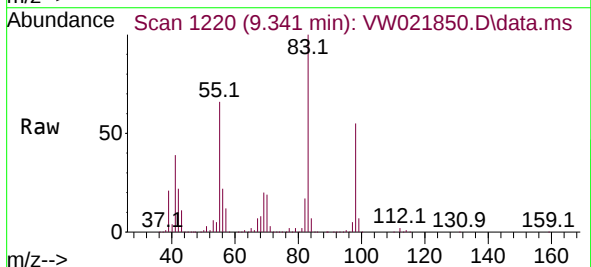
Instrument :  
MSVOA\_W  
ClientSampleId :



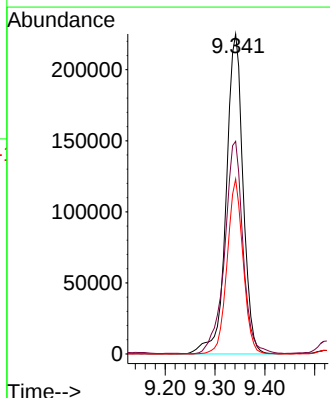
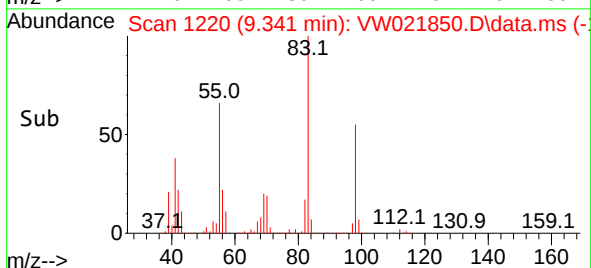
Tgt Ion: 95 Resp: 1927  
Ion Ratio Lower Upper  
95 100  
97 308.7 47.0 87.2#  
132 94.8 65.5 121.6  
130 106.1 69.4 128.8

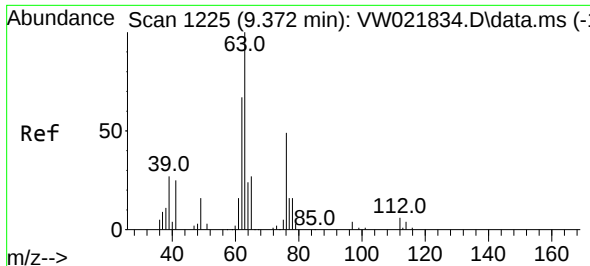


#35  
Methylcyclohexane  
Concen: 250.103 ug/L  
RT: 9.341 min Scan# 1220  
Delta R.T. 0.006 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32



Tgt Ion: 83 Resp: 528618  
Ion Ratio Lower Upper  
83 100  
55 72.2 70.8 106.2  
98 51.6 37.7 56.5





#37

1,2-Dichloropropane

Concen: 5.116 ug/L

RT: 9.335 min Scan# 11

Delta R.T. -0.037 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

Instrument :

MSVOA\_W

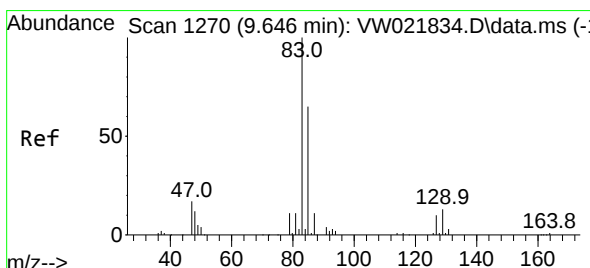
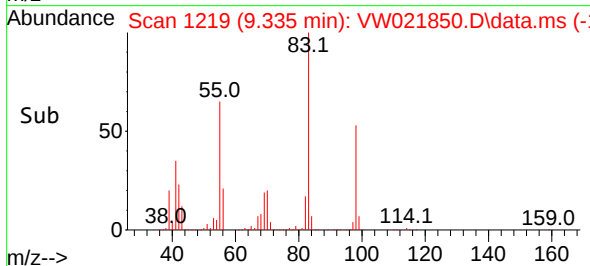
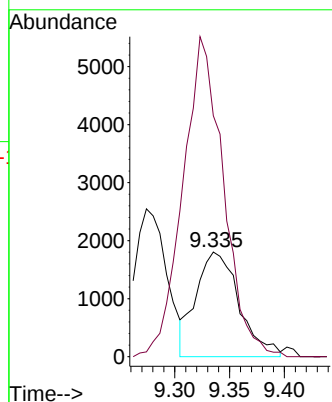
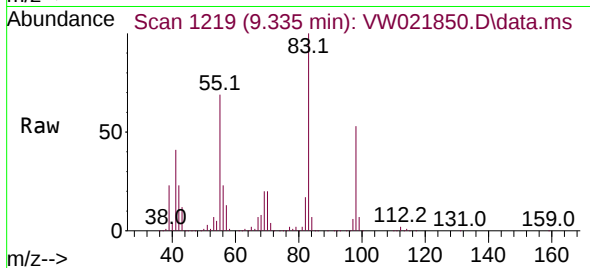
ClientSampleId :

Tgt Ion: 63 Resp: 4938

Ion Ratio Lower Upper

63 100

112 286.8 3.2 4.8#



#38

Bromodichloromethane

Concen: 5.599 ug/L

RT: 9.622 min Scan# 1266

Delta R.T. -0.025 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

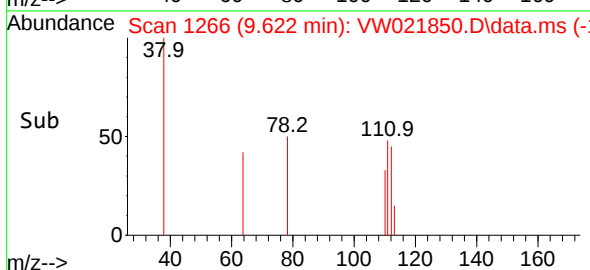
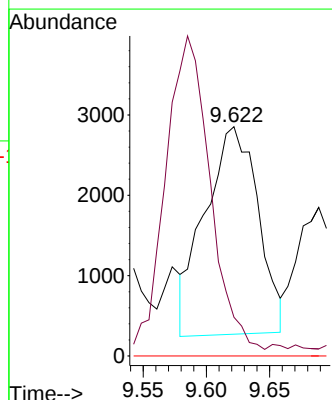
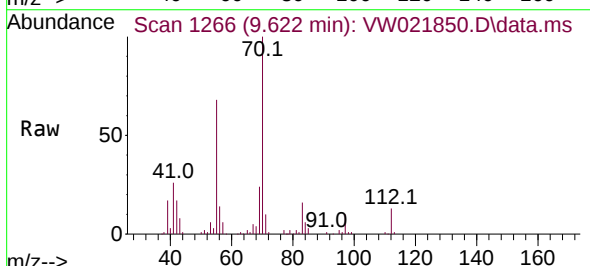
Tgt Ion: 83 Resp: 7544

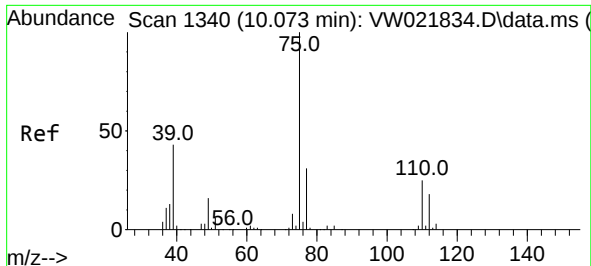
Ion Ratio Lower Upper

83 100

85 16.9 44.1 81.9#

127 0.0 6.1 9.1#





#39

cis-1,3-Dichloropropene

Concen: 1.085 ug/L

RT: 10.036 min Scan# 11

Delta R.T. -0.037 min

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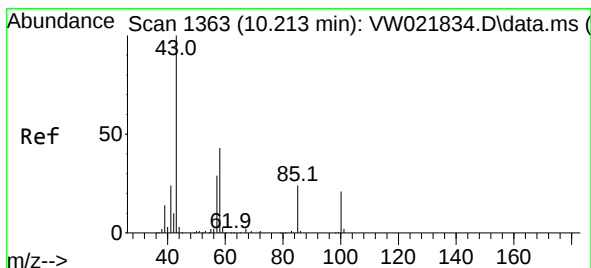
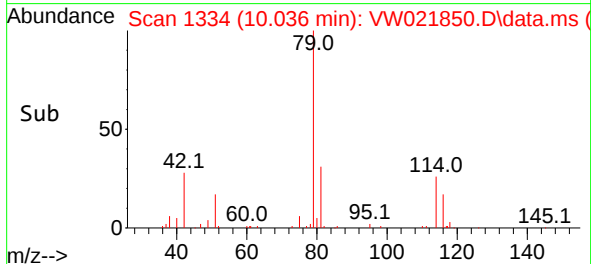
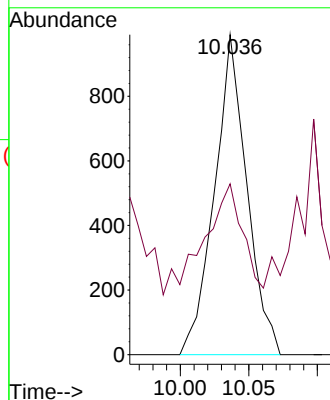
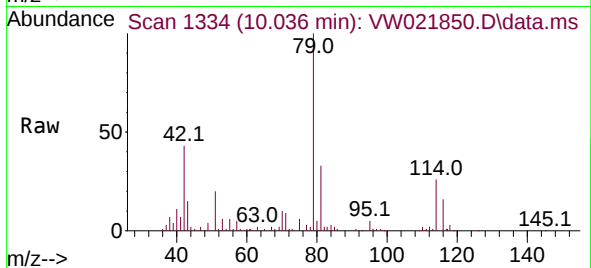
ClientSampleId :

Tgt Ion: 75 Resp: 1627

Ion Ratio Lower Upper

75 100

77 53.4 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 25.999 ug/L

RT: 10.256 min Scan# 1370

Delta R.T. 0.042 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

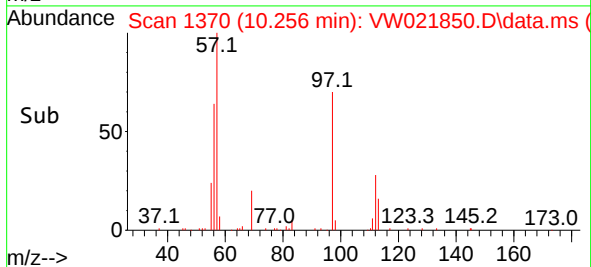
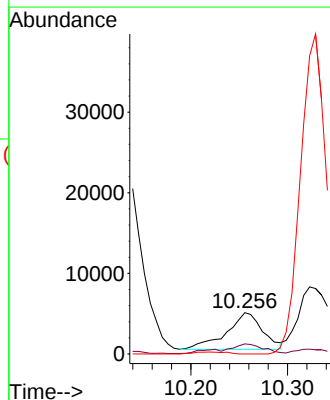
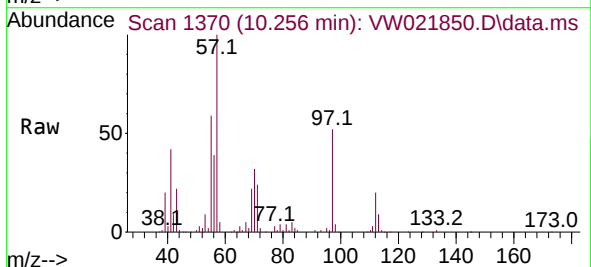
Tgt Ion: 43 Resp: 11787

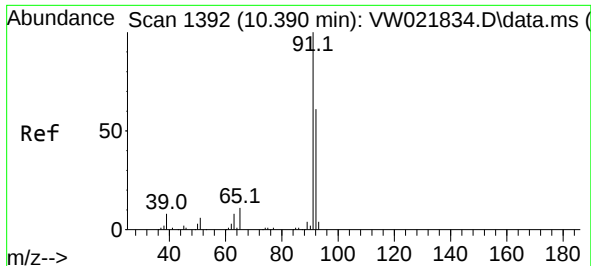
Ion Ratio Lower Upper

43 100

58 20.2 28.8 43.2#

100 0.9 10.0 15.0#

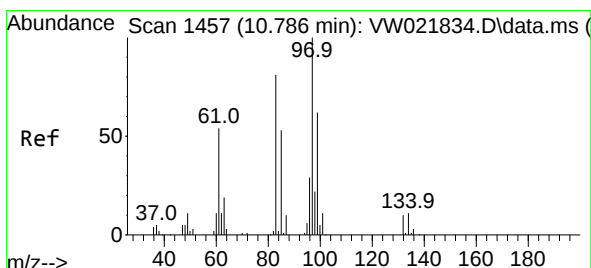
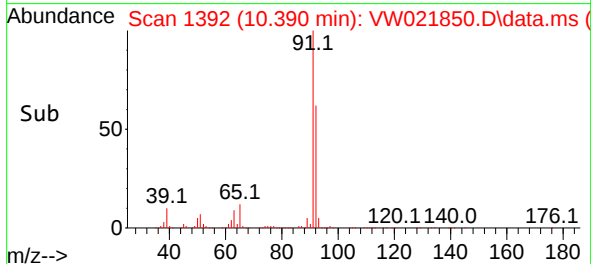
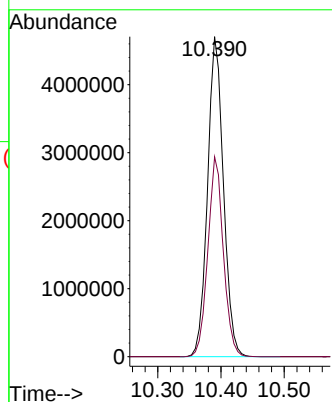
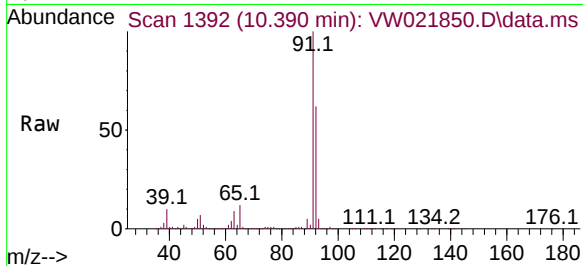




#42  
Toluene  
Concen: 1652.086 ug/L  
RT: 10.390 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

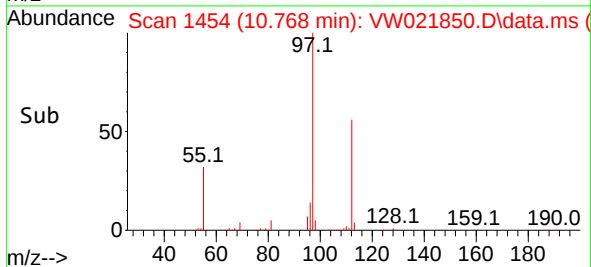
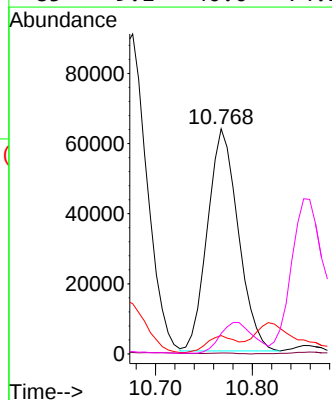
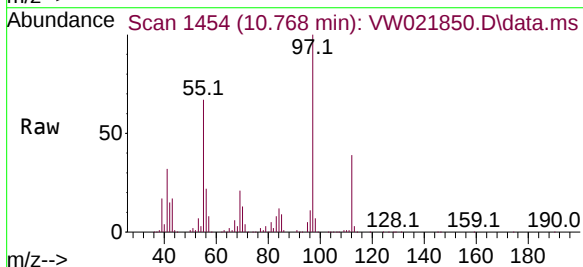
Instrument :  
MSVOA\_W  
ClientSampleId :

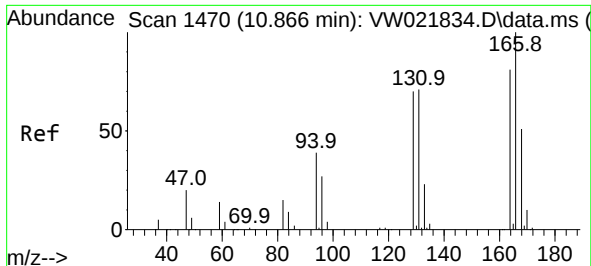
Tgt Ion: 91 Resp: 8208703  
Ion Ratio Lower Upper  
91 100  
92 62.5 41.7 77.5



#45  
1,1,2-Trichloroethane  
Concen: 170.775 ug/L  
RT: 10.768 min Scan# 1454  
Delta R.T. -0.019 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

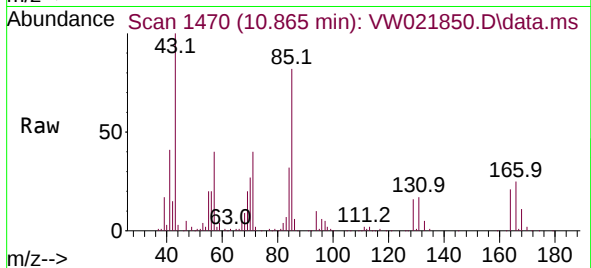
Tgt Ion: 97 Resp: 139935  
Ion Ratio Lower Upper  
97 100  
99 0.4 43.0 79.8#  
83 8.2 62.6 116.3#  
85 9.1 40.0 74.2#



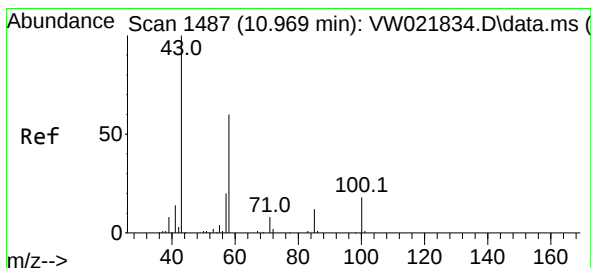
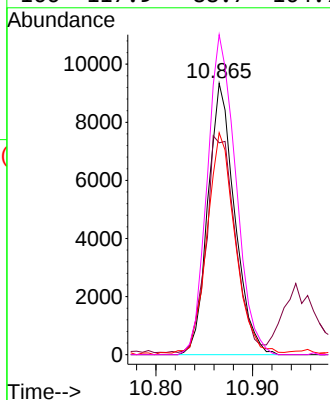
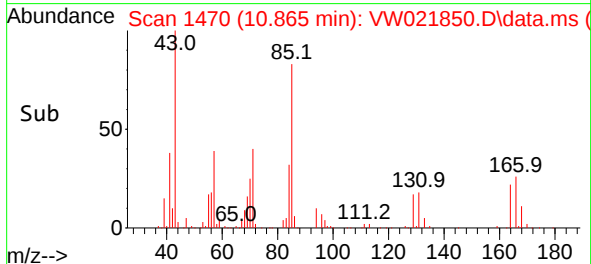


#46  
Tetrachloroethene  
Concen: 14.154 ug/L  
RT: 10.865 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

Instrument :  
MSVOA\_W  
ClientSampleId :

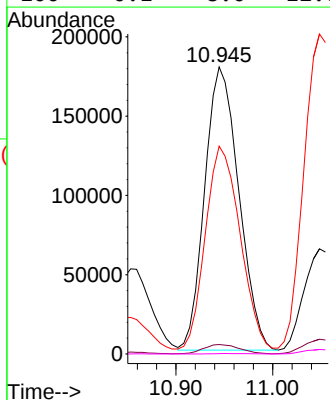
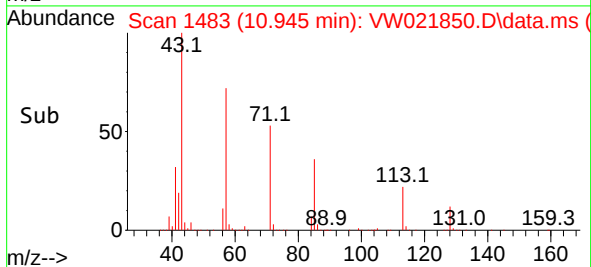
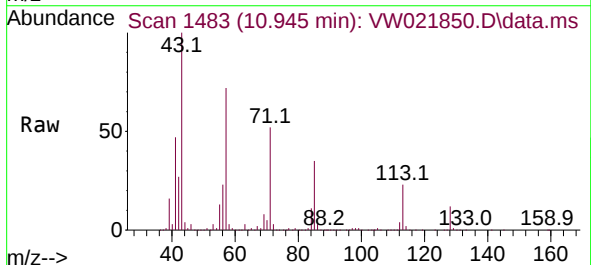


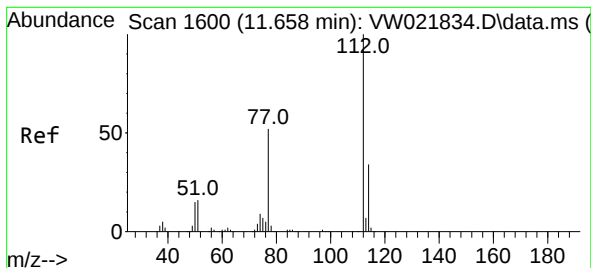
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 17989 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 78.1    | 65.5  | 121.7 |
| 131 | 81.8    | 59.7  | 110.9 |
| 166 | 117.9   | 88.7  | 164.7 |



#48  
2-Hexanone  
Concen: 1413.194 ug/L  
RT: 10.945 min Scan# 1483  
Delta R.T. -0.025 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 43 | Resp: | 438372 |
| Ion | Ratio   | Lower | Upper  |
| 43  | 100     |       |        |
| 58  | 3.5     | 40.2  | 60.2#  |
| 57  | 72.3    | 14.3  | 21.5#  |
| 100 | 0.1     | 8.0   | 12.0#  |





#51

Chlorobenzene

Concen: 7.783 ug/L

RT: 11.664 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW021850.D

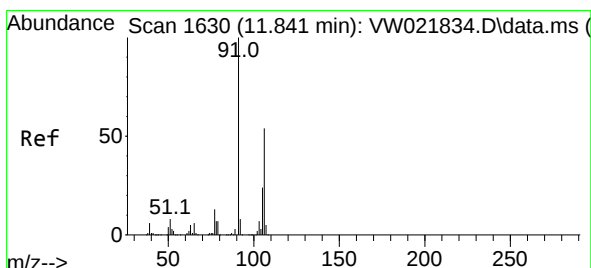
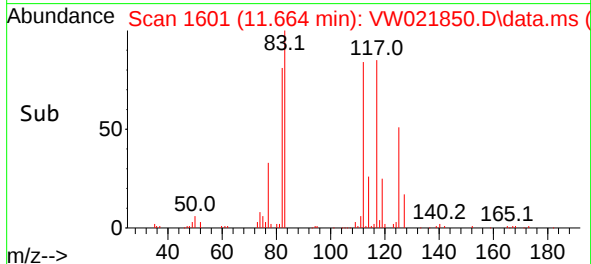
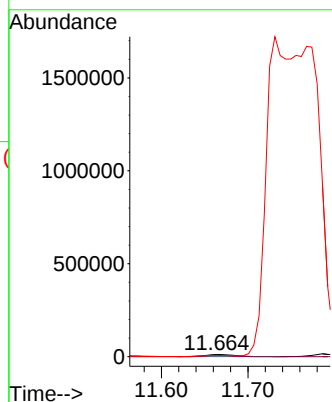
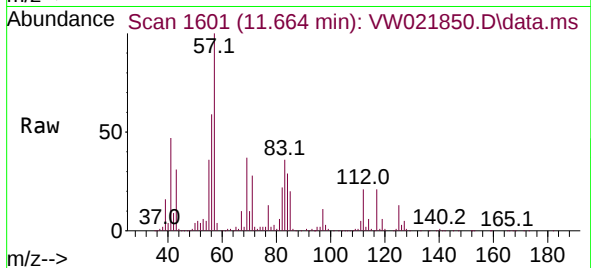
Acq: 11 Jan 2022 22:32

Instrument :

MSVOA\_W

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 27304 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 114       | 31.1  | 22.4  | 41.6  |
| 77        | 60.4  | 50.2  | 75.4  |



#53

m,p-Xylene

Concen: 4346.179 ug/L

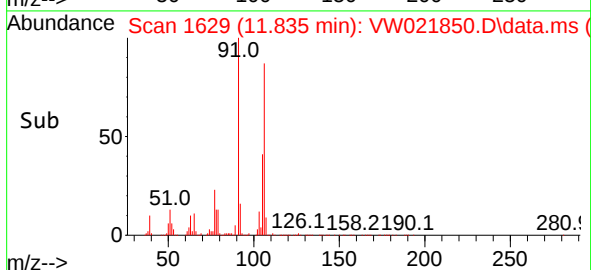
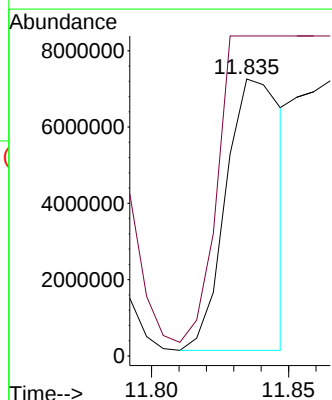
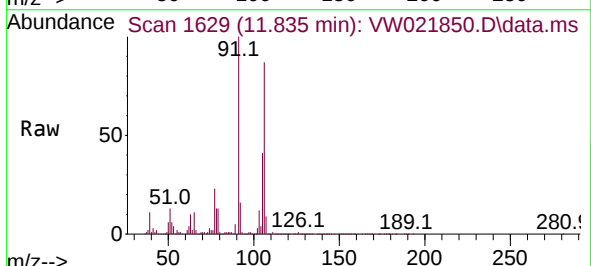
RT: 11.835 min Scan# 1629

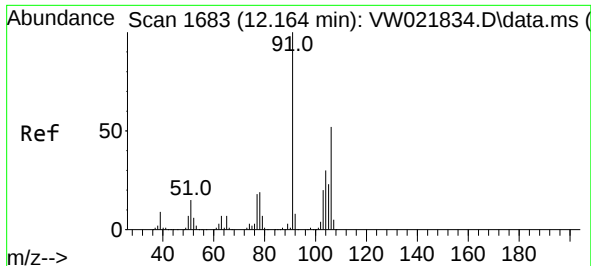
Delta R.T. -0.006 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

|           |       |       |          |
|-----------|-------|-------|----------|
| Tgt Ion:  | 106   | Resp: | 10031209 |
| Ion Ratio | Lower | Upper |          |
| 106       | 100   |       |          |
| 91        | 115.5 | 149.9 | 278.3#   |

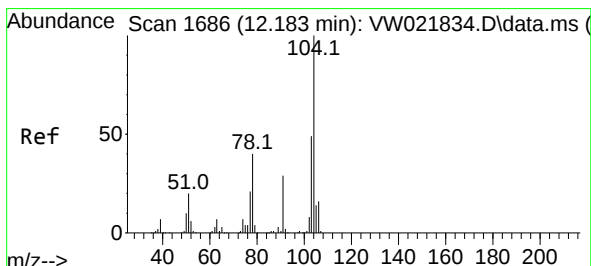
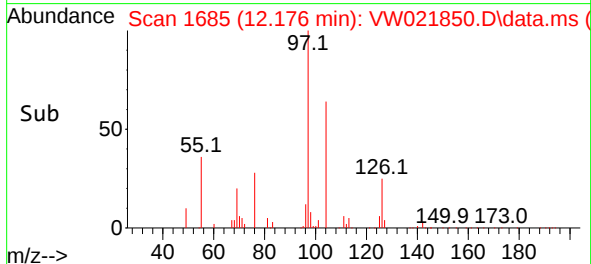
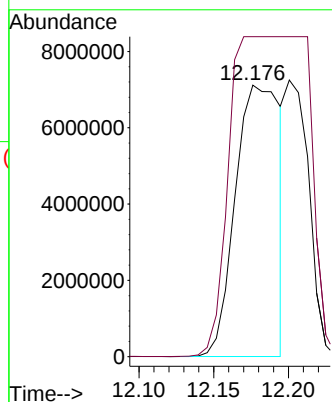
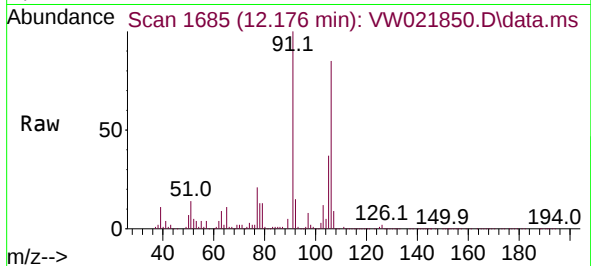




#54  
o-Xylene  
Concen: 6881.404 ug/L  
RT: 12.176 min Scan# 1684  
Delta R.T. 0.012 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

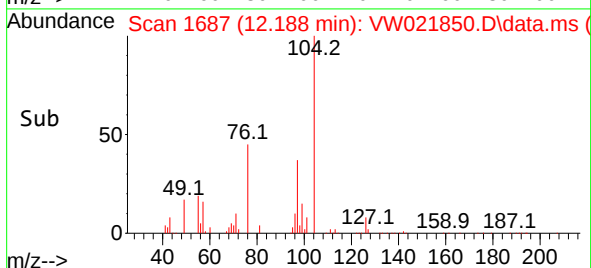
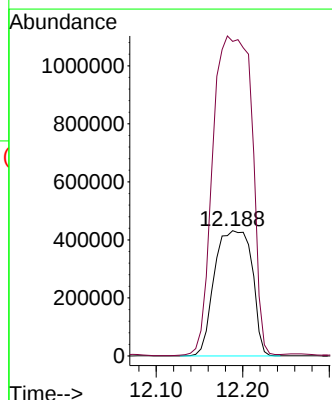
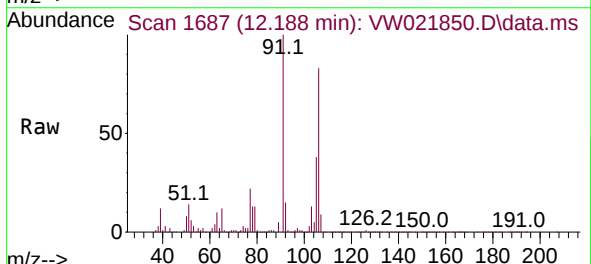
Instrument :  
MSVOA\_W  
ClientSampleId :

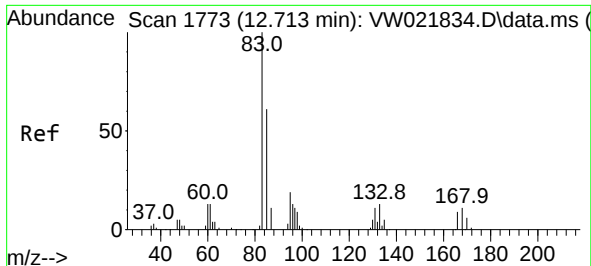
Tgt Ion:106 Resp:14744984  
Ion Ratio Lower Upper  
106 100  
91 117.8 153.6 285.3#



#55  
Styrene  
Concen: 366.671 ug/L  
RT: 12.188 min Scan# 1687  
Delta R.T. 0.006 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

Tgt Ion:104 Resp: 1297106  
Ion Ratio Lower Upper  
104 100  
78 250.9 34.4 64.0#





#57

1,1,2,2-Tetrachloroethane

Concen: 604.964 ug/L

RT: 12.682 min Scan# 1

Delta R.T. -0.031 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

Instrument :

MSVOA\_W

ClientSampleId :

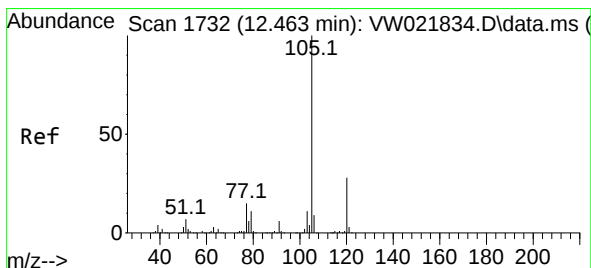
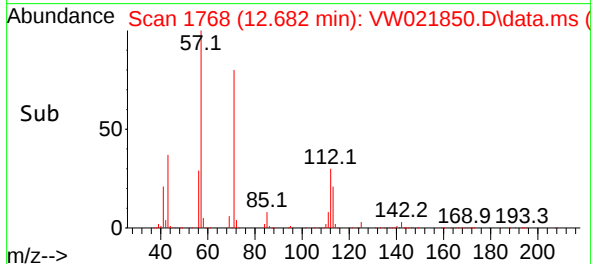
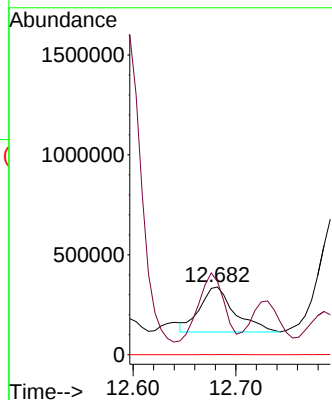
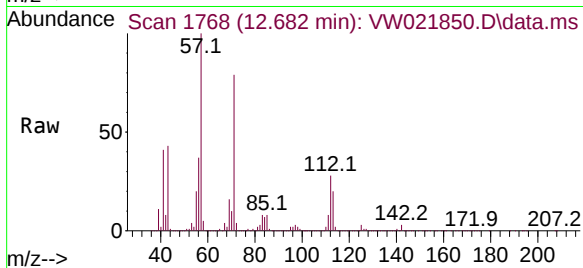
Tgt Ion: 83 Resp: 533358

Ion Ratio Lower Upper

83 100

85 108.1 44.0 81.6#

131 0.2 6.9 10.3#



#60

Isopropylbenzene

Concen: 482.787 ug/L

RT: 12.475 min Scan# 1734

Delta R.T. 0.012 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

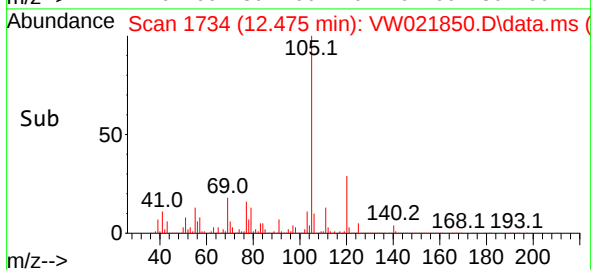
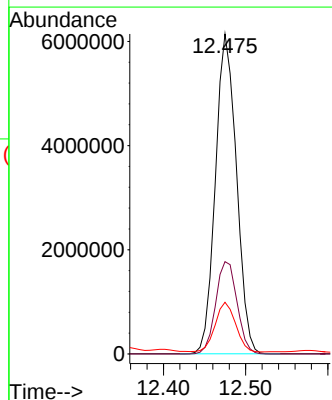
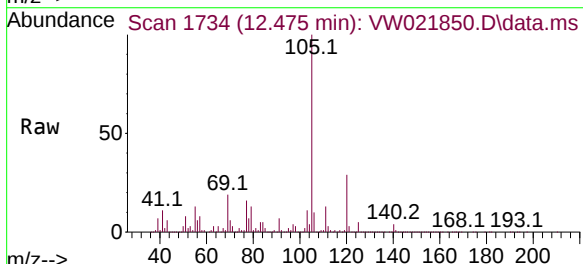
Tgt Ion:105 Resp:10925012

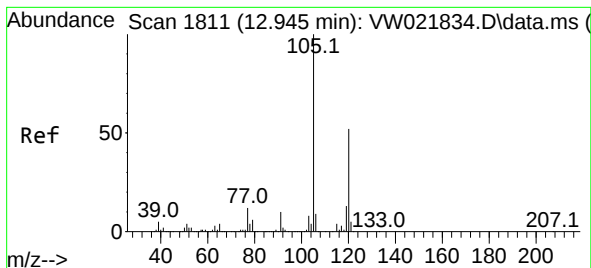
Ion Ratio Lower Upper

105 100

120 29.3 20.1 30.1

77 15.3 13.8 20.8

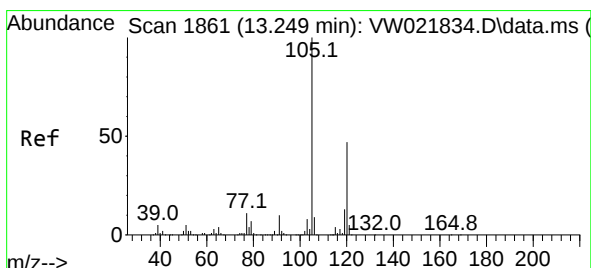
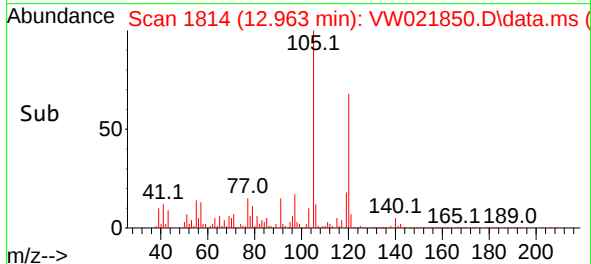
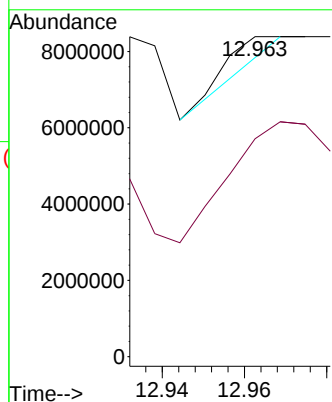
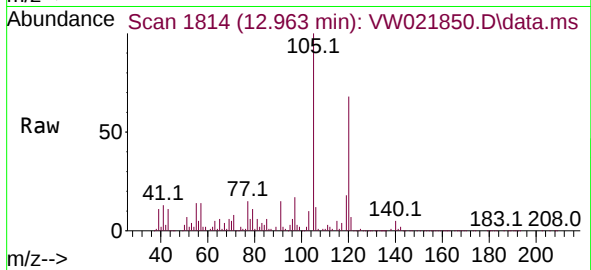




#62  
1,3,5-Trimethylbenzene  
Concen: 45.989 ug/L  
RT: 12.963 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

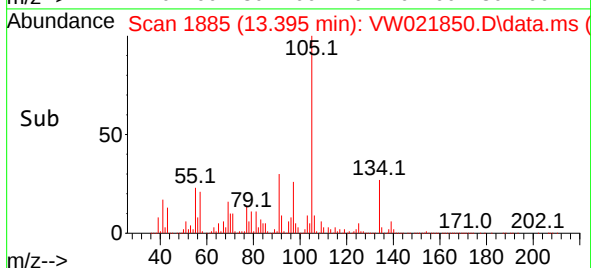
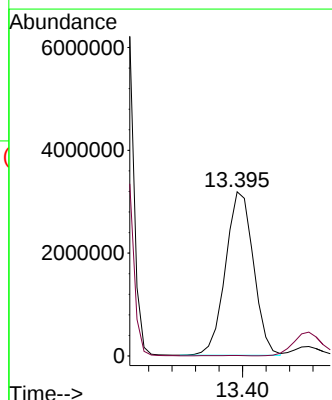
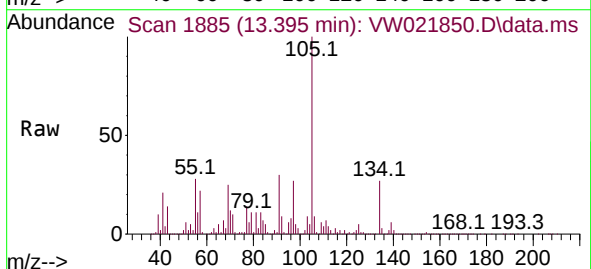
Instrument :  
MSVOA\_W  
ClientSampleId :

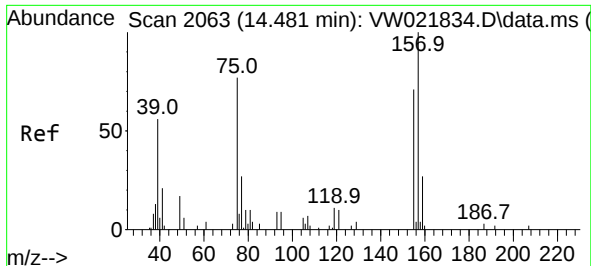
Tgt Ion:105 Resp: 861789  
Ion Ratio Lower Upper  
105 100  
120 1544.9 37.4 56.2#



#63  
1,2,4-Trimethylbenzene  
Concen: 284.315 ug/L  
RT: 13.395 min Scan# 1885  
Delta R.T. 0.146 min  
Lab File: VW021850.D  
Acq: 11 Jan 2022 22:32

Tgt Ion:105 Resp: 5254452  
Ion Ratio Lower Upper  
105 100  
120 0.3 35.0 52.6#





#68

1,2-Dibromo-3-chloropropane

Concen: 213.401 ug/L

RT: 14.487 min Scan# 2063

Delta R.T. 0.006 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

Instrument :

MSVOA\_W

ClientSampleId :

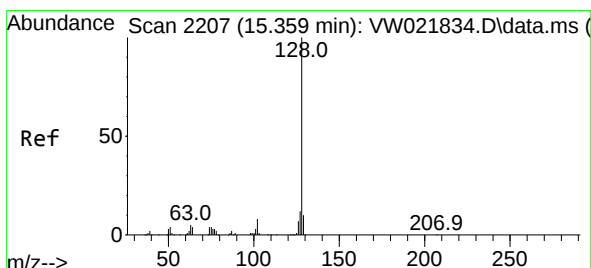
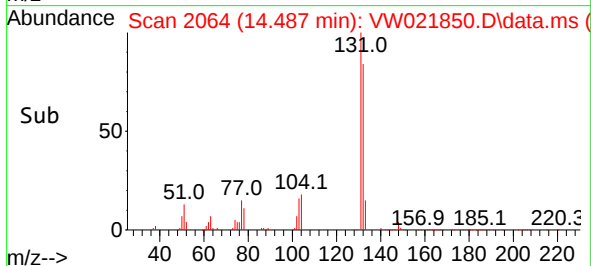
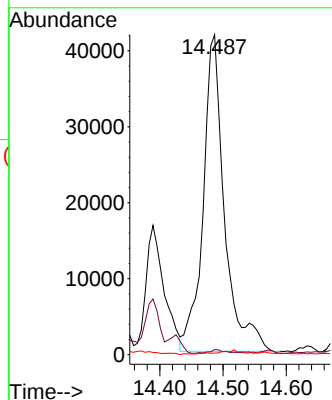
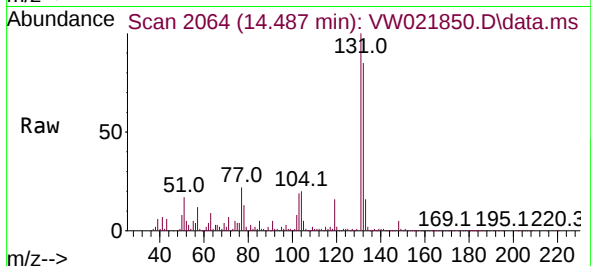
Tgt Ion: 75 Resp: 97866

Ion Ratio Lower Upper

75 100

155 1.6 54.2 81.2#

157 0.5 69.4 104.2#



#71

Naphthalene

Concen: 368.055 ug/L

RT: 15.358 min Scan# 2207

Delta R.T. -0.000 min

Lab File: VW021850.D

Acq: 11 Jan 2022 22:32

Tgt Ion:128 Resp: 3825466

Ion Ratio Lower Upper

128 100

127 13.6 10.7 16.1

129 11.2 8.6 12.8

