

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW080422\  
 Data File : VW024165.D  
 Acq On : 04 Aug 2022 17:04  
 Operator : SY/VA  
 Sample : N4008-08  
 Misc : 5.81g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 COZF2

Quant Time: Aug 05 01:02:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM080422SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Aug 05 01:00:42 2022  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|-------------|----------|
| -----                         |           |       |          |          |             |          |
| Internal Standards            |           |       |          |          |             |          |
| 1) 1,4-Difluorobenzene        | 8.842     | 114   | 146982   | 25.000   | ug/L        | 0.00     |
| 28) Chlorobenzene-d5          | 11.628    | 117   | 95788    | 25.000   | ug/L        | # 0.00   |
| 58) 1,4-Dichlorobenzene-d4    | 13.536    | 152   | 198591   | 25.000   | ug/L        | #-0.02   |
|                               |           |       |          |          |             |          |
| System Monitoring Compounds   |           |       |          |          |             |          |
| 4) Vinyl Chloride-d3          | 2.337     | 65    | 92556    | 30.126   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 150 | Recovery | = 120.520%  |          |
| 7) Chloroethane-d5            | 2.873     | 69    | 49302    | 25.761   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 150 | Recovery | = 103.040%  |          |
| 11) 1,1-Dichloroethene-d2     | 4.007     | 63    | 66748    | 19.063   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 45 - 110 | Recovery | = 76.240%   |          |
| 21) 2-Butanone-d5             | 7.074     | 46    | 36824    | 64.424   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 20 - 135 | Recovery | = 128.840%  |          |
| 24) Chloroform-d              | 7.647     | 84    | 99090    | 22.281   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 40 - 150 | Recovery | = 89.120%   |          |
| 26) 1,2-Dichloroethane-d4     | 8.305     | 65    | 58733    | 23.787   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 70 - 130 | Recovery | = 95.160%   |          |
| 32) Benzene-d6                | 8.269     | 84    | 187709   | 33.227   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 20 - 135 | Recovery | = 132.920%  |          |
| 36) 1,2-Dichloropropane-d6    | 9.275     | 67    | 61091    | 36.626   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 70 - 120 | Recovery | = 146.520%# |          |
| 41) Toluene-d8                | 10.317    | 98    | 249055   | 47.167   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 130 | Recovery | = 188.680%# |          |
| 43) trans-1,3-Dichloroprop... | 10.573    | 79    | 23531    | 32.209   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 135 | Recovery | = 128.840%  |          |
| 47) 2-Hexanone-d5             | 10.921    | 63    | 31834    | 103.330  | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 20 - 135 | Recovery | = 206.660%# |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.695    | 84    | 68509    | 42.335   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 45 - 120 | Recovery | = 169.320%# |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.871    | 152   | 182621   | 25.129   | ug/L        | 0.02     |
| Spiked Amount                 | 25.000    | Range | 75 - 120 | Recovery | = 100.520%  |          |
|                               |           |       |          |          |             |          |
| Target Compounds              |           |       |          |          |             | Qvalue   |
| 16) Methylene chloride        | 4.903     | 84    | 26949    | 10.397   | ug/L        | 93       |
| 22) 2-Butanone                | 7.147     | 43    | 2164     | 3.052    | ug/L        | 86       |
| 29) Cyclohexane               | 7.946     | 56    | 213685   | 108.812  | ug/L        | # 83     |
| 33) Benzene                   | 8.324     | 78    | 143340   | 25.337   | ug/L        | 100      |
| 34) Trichloroethene           | 9.092     | 95    | 3899     | 2.607    | ug/L        | # 79     |
| 35) Methylcyclohexane         | 9.329     | 83    | 1300520  | 554.612  | ug/L        | 98       |
| 38) Bromodichloromethane      | 9.610     | 83    | 12030    | 6.133    | ug/L        | # 43     |
| 40) 4-Methyl-2-pentanone      | 10.207    | 43    | 4241     | 4.569    | ug/L        | # 73     |
| 42) Toluene                   | 10.384    | 91    | 2795451  | 464.986  | ug/L        | 100      |
| 45) 1,1,2-Trichloroethane     | 10.762    | 97    | 402430   | 341.408  | ug/L        | # 25     |
| 46) Tetrachloroethene         | 10.854    | 164   | 3307     | 2.732    | ug/L        | 85       |
| 48) 2-Hexanone                | 10.933    | 43    | 984490   | 1562.964 | ug/L        | # 25     |
| 50) 1,2-Dibromoethane         | 11.225    | 107   | 1066     | 0.944    | ug/L        | # 1      |
| 52) Ethylbenzene              | 11.725    | 91    | 1449860  | 220.119  | ug/L        | 99       |
| 54) o-Xylene                  | 12.164    | 106   | 3356119  | 1385.559 | ug/L        | 96       |
| 55) Styrene                   | 12.164    | 104   | 167379   | 39.732   | ug/L        | # 1      |
| 57) 1,1,2,2-Tetrachloroethane | 12.689    | 83    | 85869    | 58.290   | ug/L        | # 88     |
| 60) Isopropylbenzene          | 12.463    | 105   | 940451   | 39.119   | ug/L        | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.945    | 105   | 9822765  | 494.431  | ug/L        | 99       |

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 Sample : N4008-08  
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 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0ZF2

Quant Time: Aug 05 01:02:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM080422SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Aug 05 01:00:42 2022  
 Response via : Initial Calibration

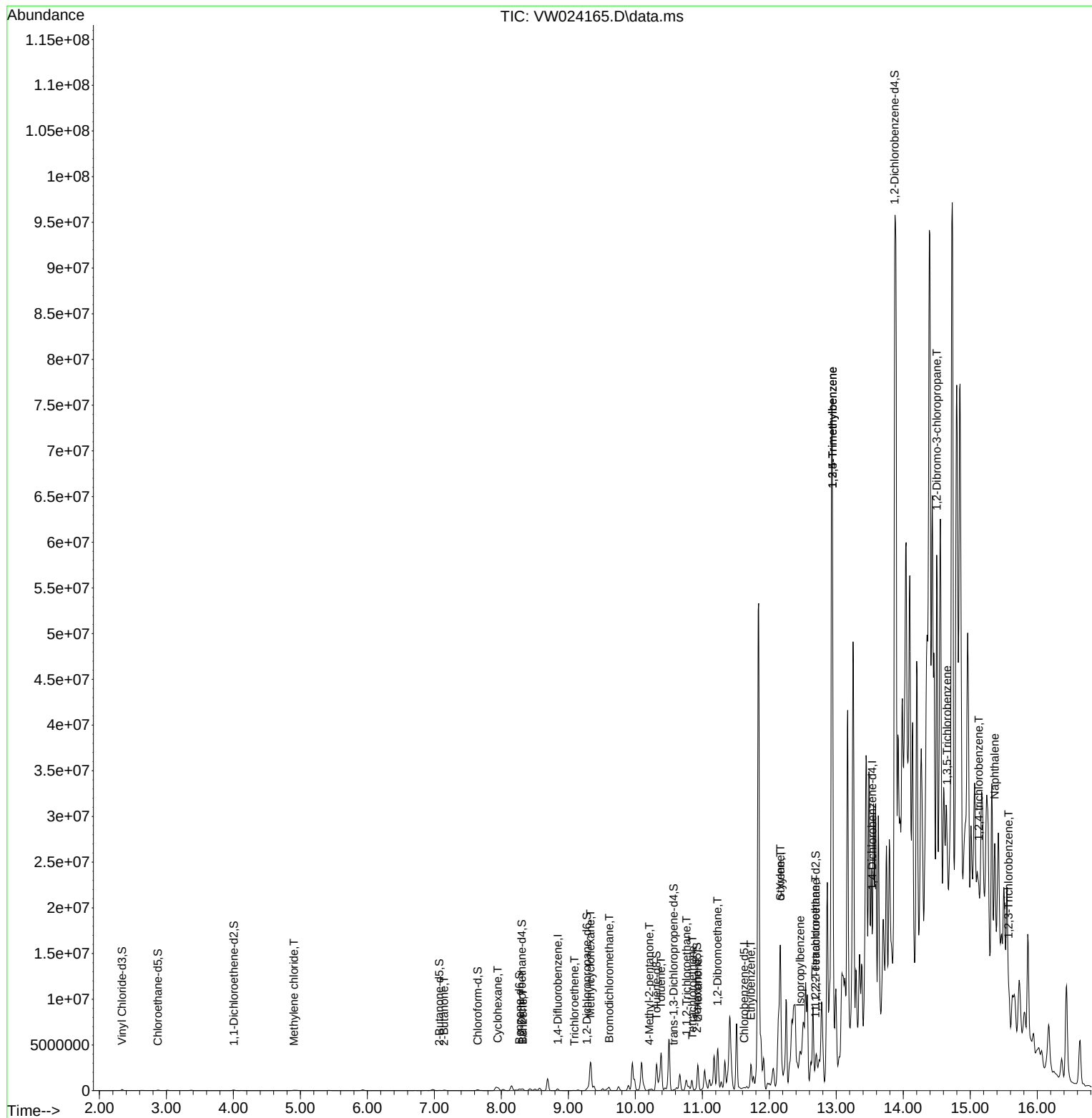
| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 63) 1,2,4-Trimethylbenzene    | 12.945 | 105  | 9822765  | 502.038  | ug/L   | 92       |
| 68) 1,2-Dibromo-3-chloropr... | 14.499 | 75   | 40158    | 43.490   | ug/L # | 40       |
| 69) 1,3,5-Trichlorobenzene    | 14.652 | 180  | 5021     | 0.650    | ug/L # | 1        |
| 70) 1,2,4-trichlorobenzene    | 15.127 | 180  | 11842    | 1.916    | ug/L # | 1        |
| 71) Naphthalene               | 15.365 | 128  | 12129994 | 1007.366 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 15.572 | 180  | 55259    | 9.818    | ug/L # | 1        |

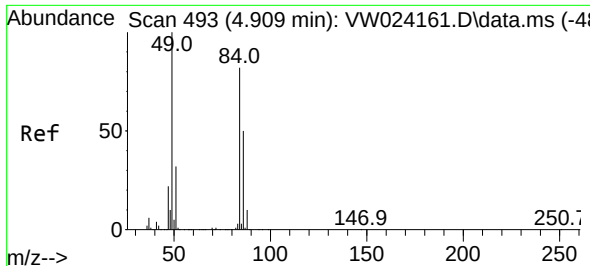
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 05 01:02:13 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM080422SMA.M  
Quant Title : SFAM01.0  
QLast Update : Fri Aug 05 01:00:42 2022  
Response via : Initial Calibration

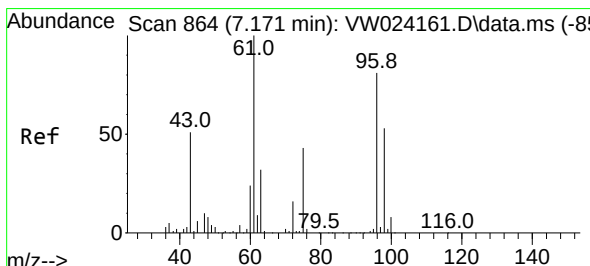
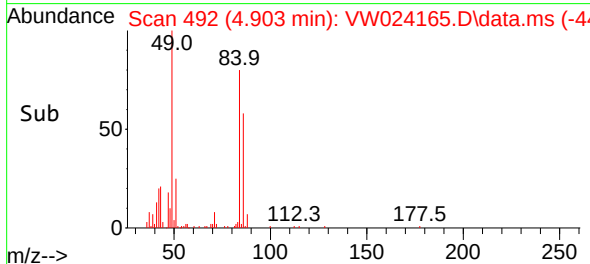
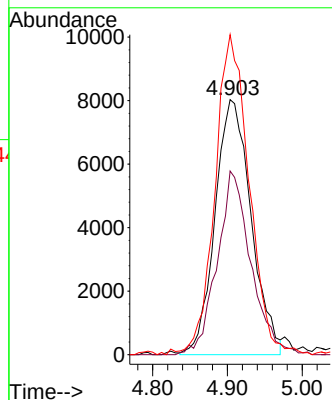
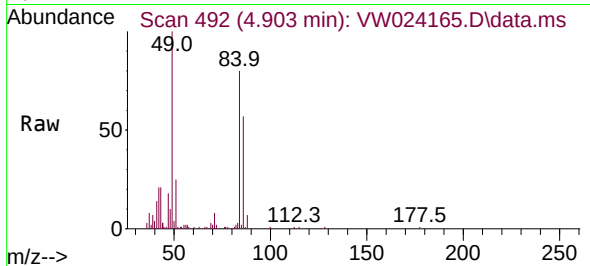




#16  
Methylene chloride  
Concen: 10.397 ug/L  
RT: 4.903 min Scan# 493  
Delta R.T. -0.006 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

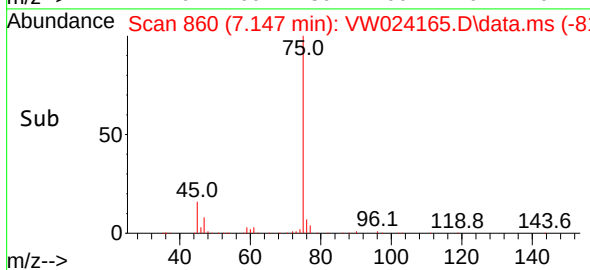
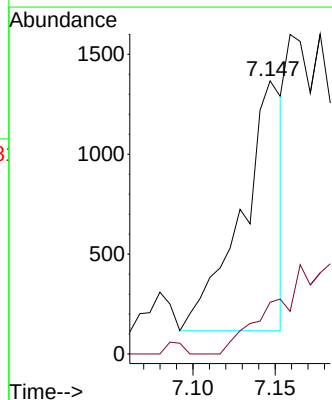
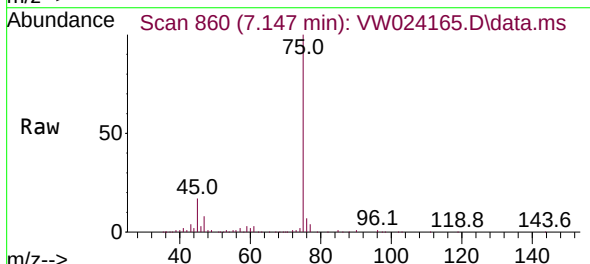
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0ZF2

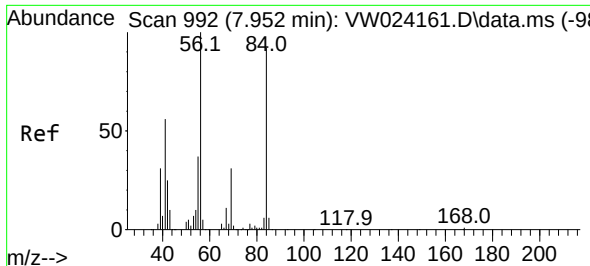
Tgt Ion: 84 Resp: 26949  
Ion Ratio Lower Upper  
84 100  
86 72.0 42.8 79.6  
49 125.4 85.3 158.3



#22  
2-Butanone  
Concen: 3.052 ug/L  
RT: 7.147 min Scan# 860  
Delta R.T. -0.024 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

Tgt Ion: 43 Resp: 2164  
Ion Ratio Lower Upper  
43 100  
72 21.0 14.3 42.9

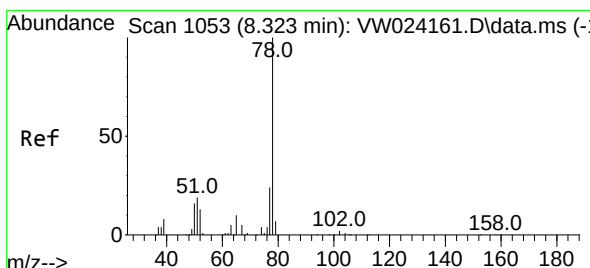
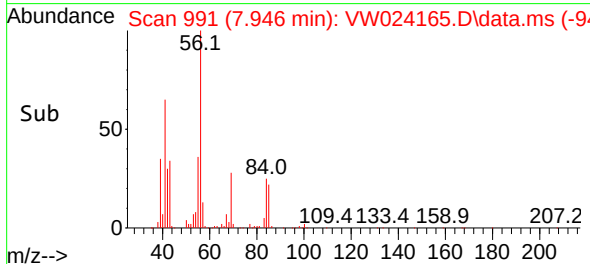
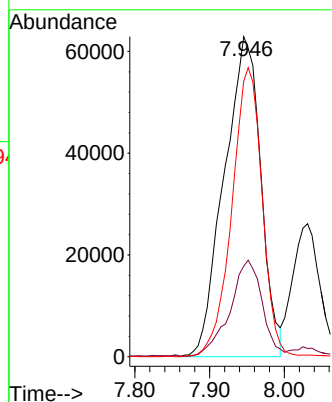
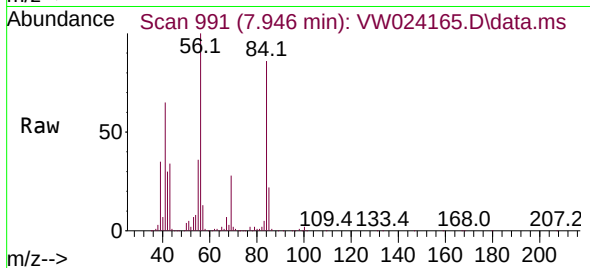




#29  
Cyclohexane  
Concen: 108.812 ug/L  
RT: 7.946 min Scan# 991  
Delta R.T. -0.006 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

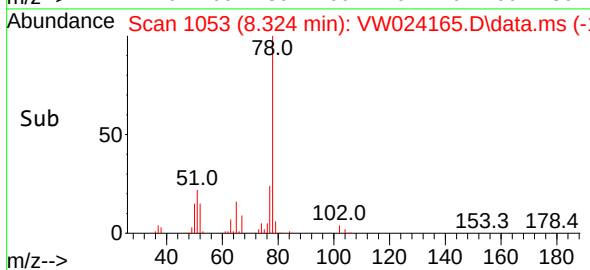
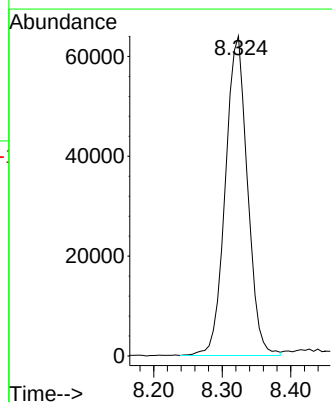
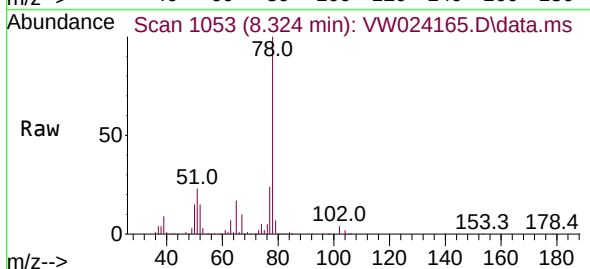
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0ZF2

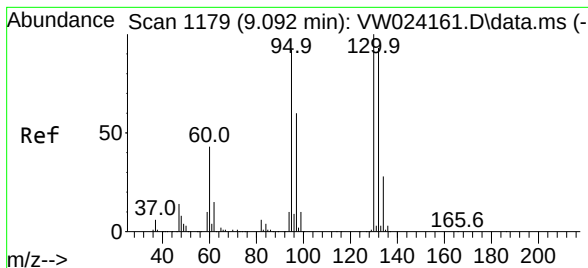
Tgt Ion: 56 Resp: 213685  
Ion Ratio Lower Upper  
56 100  
69 26.3 24.5 36.7  
84 74.7 75.5 113.3#



#33  
Benzene  
Concen: 25.337 ug/L  
RT: 8.324 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

Tgt Ion: 78 Resp: 143340





#34

Trichloroethene

Concen: 2.607 ug/L

RT: 9.092 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VW024165.D

Acq: 04 Aug 2022 17:04

Instrument :

MSVOA\_W

ClientSampleId :

C0ZF2

Tgt Ion: 95 Resp: 3899

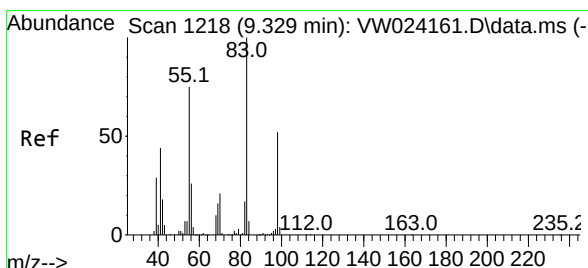
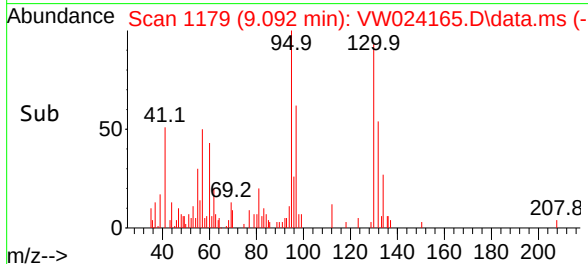
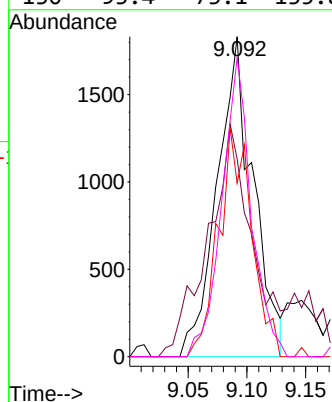
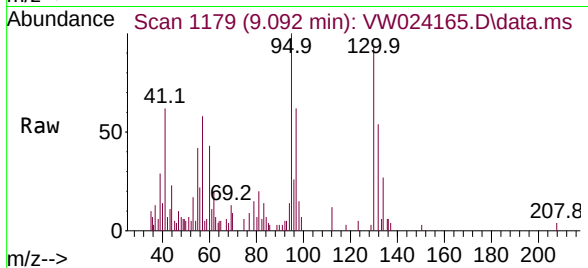
Ion Ratio Lower Upper

95 100

97 61.8 41.6 77.2

132 54.3 67.0 124.4#

130 93.4 73.1 135.8



#35

Methylcyclohexane

Concen: 554.612 ug/L

RT: 9.329 min Scan# 1218

Delta R.T. 0.000 min

Lab File: VW024165.D

Acq: 04 Aug 2022 17:04

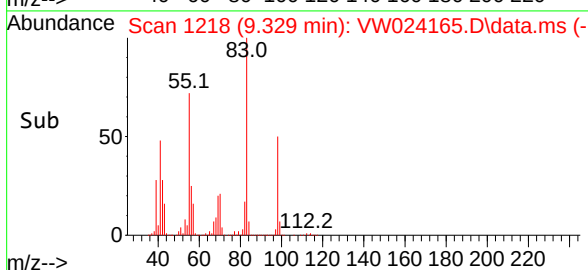
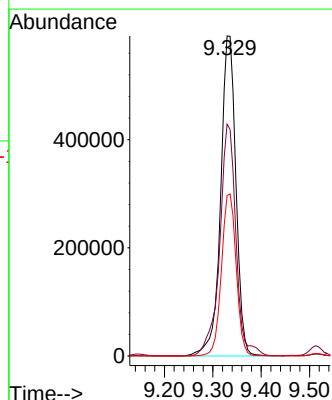
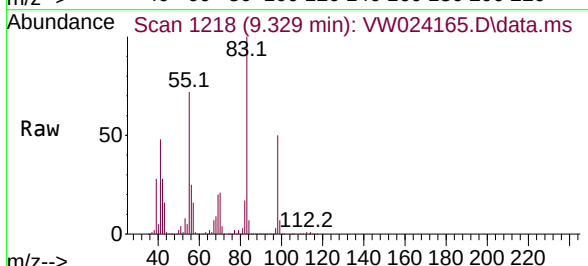
Tgt Ion: 83 Resp: 1300520

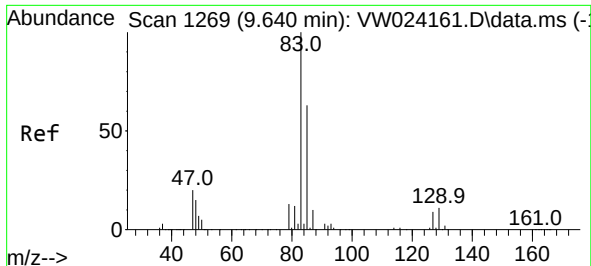
Ion Ratio Lower Upper

83 100

55 75.4 59.1 88.7

98 48.7 40.8 61.2

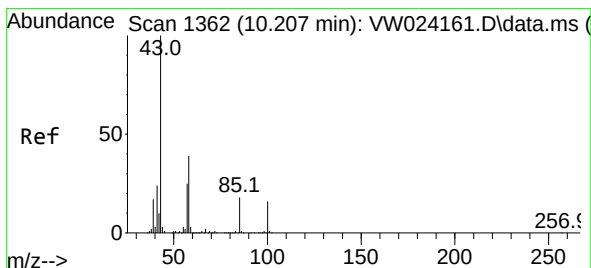
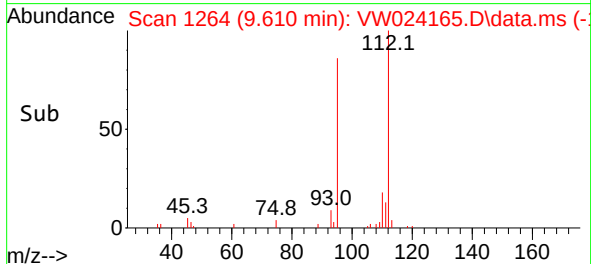
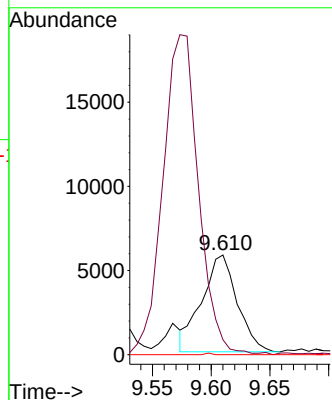
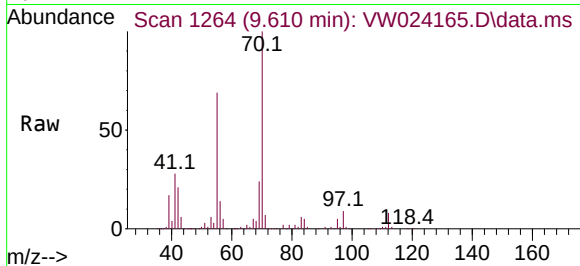




#38  
Bromodichloromethane  
Concen: 6.133 ug/L  
RT: 9.610 min Scan# 1264  
Delta R.T. -0.030 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

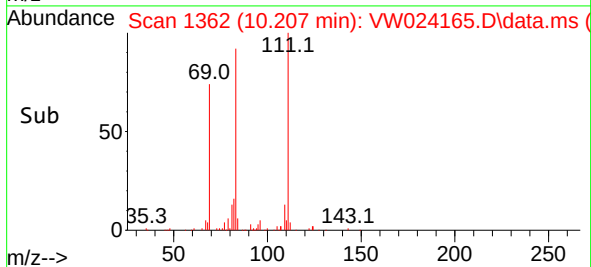
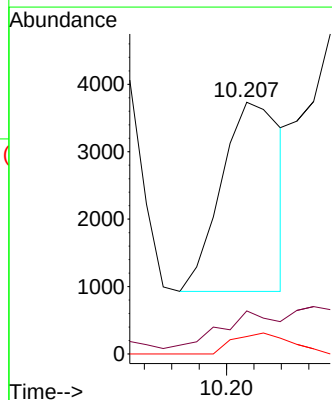
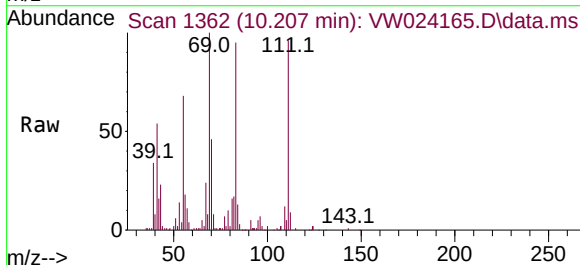
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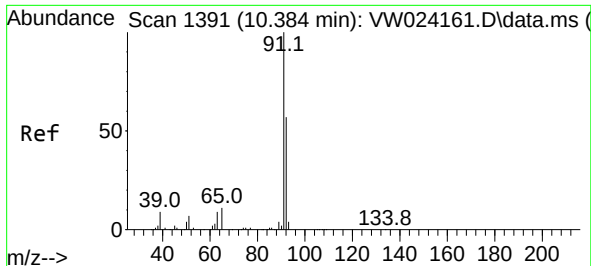
Tgt Ion: 83 Resp: 12030  
Ion Ratio Lower Upper  
83 100  
85 15.1 43.7 81.1#  
127 0.0 6.9 10.3#



#40  
4-Methyl-2-pentanone  
Concen: 4.569 ug/L  
RT: 10.207 min Scan# 1362  
Delta R.T. 0.000 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

Tgt Ion: 43 Resp: 4241  
Ion Ratio Lower Upper  
43 100  
58 18.6 30.5 45.7#  
100 10.7 13.8 20.6#

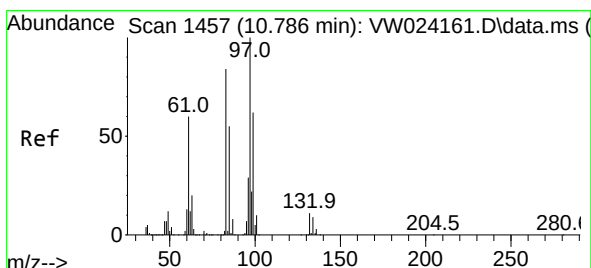
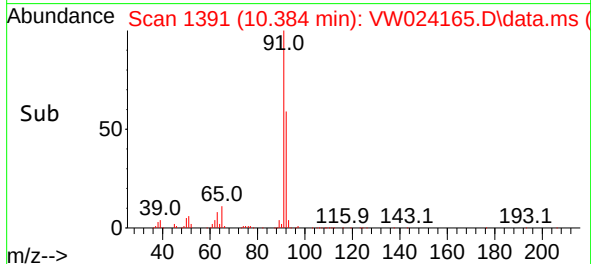
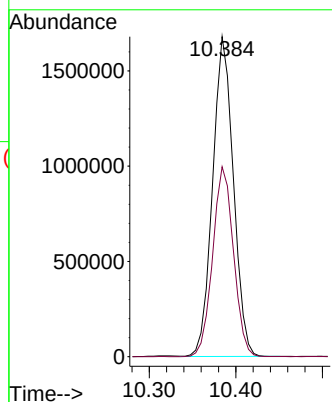
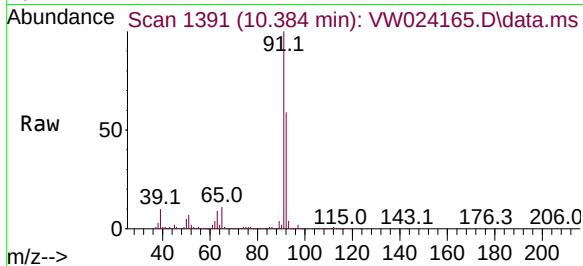




#42  
Toluene  
Concen: 464.986 ug/L  
RT: 10.384 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

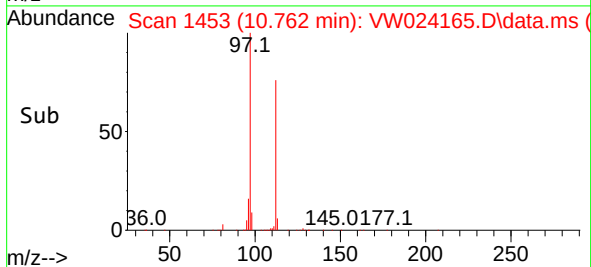
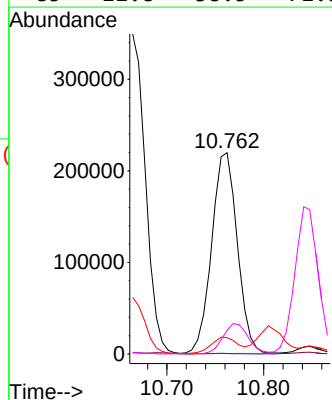
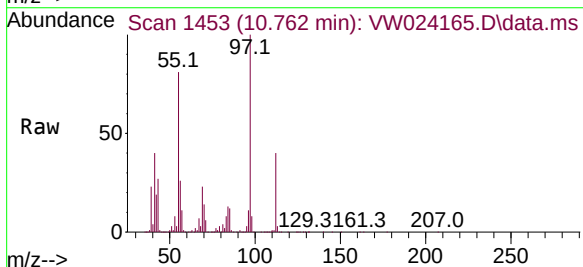
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0ZF2

Tgt Ion: 91 Resp: 2795451  
Ion Ratio Lower Upper  
91 100  
92 59.3 41.4 77.0

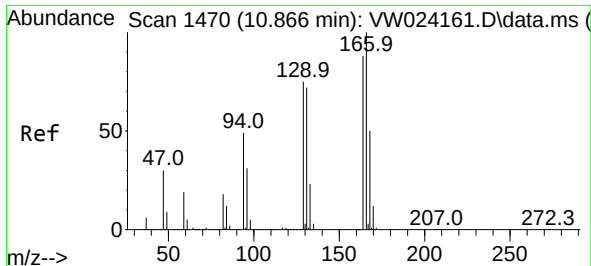


#45  
1,1,2-Trichloroethane  
Concen: 341.408 ug/L  
RT: 10.762 min Scan# 1453  
Delta R.T. -0.024 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

Tgt Ion: 97 Resp: 402430  
Ion Ratio Lower Upper  
97 100  
99 0.2 43.8 81.3#  
83 8.1 56.4 104.7#  
85 11.8 38.5 71.5#



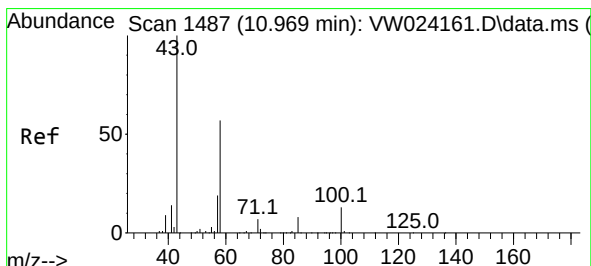
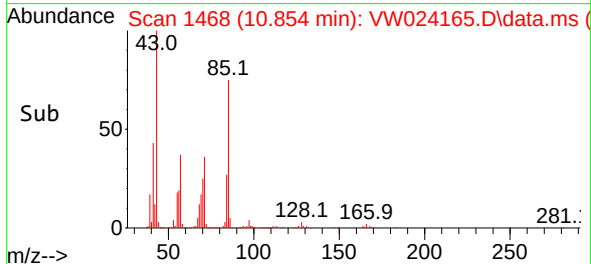
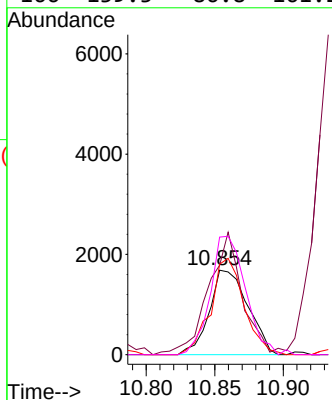
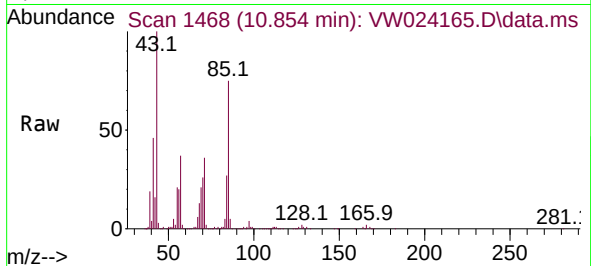




#46  
Tetrachloroethene  
Concen: 2.732 ug/L  
RT: 10.854 min Scan# 1468  
Delta R.T. -0.012 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

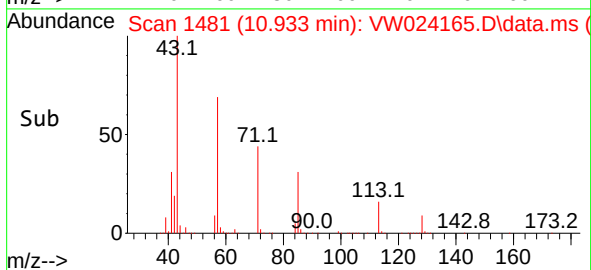
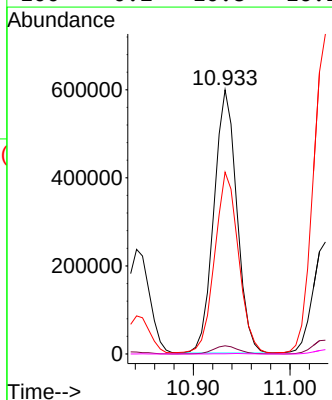
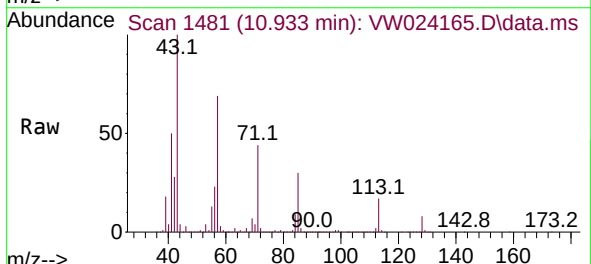
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0ZF2

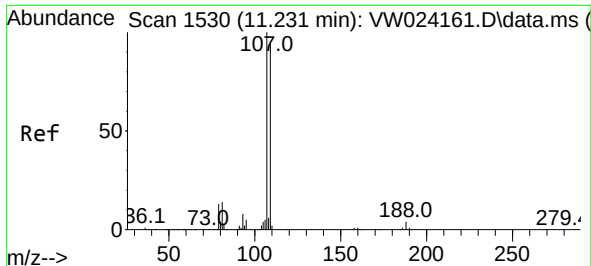
Tgt Ion:164 Resp: 3307  
Ion Ratio Lower Upper  
164 100  
129 106.1 63.1 117.3  
131 107.3 63.9 118.7  
166 139.3 86.8 161.2



#48  
2-Hexanone  
Concen: 1562.964 ug/L  
RT: 10.933 min Scan# 1481  
Delta R.T. -0.037 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

Tgt Ion: 43 Resp: 984490  
Ion Ratio Lower Upper  
43 100  
58 3.3 43.4 65.0#  
57 70.9 15.0 22.4#  
100 0.2 10.8 16.2#





#50

1,2-Dibromoethane

Concen: 0.944 ug/L

RT: 11.225 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW024165.D

Acq: 04 Aug 2022 17:04

Instrument :

MSVOA\_W

ClientSampleId :

C0ZF2

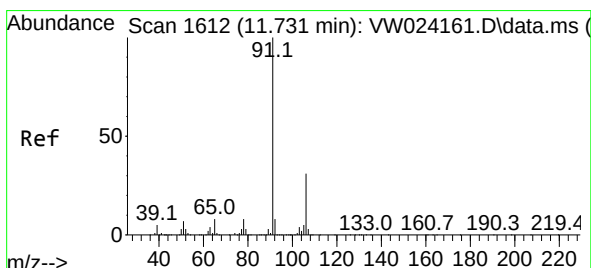
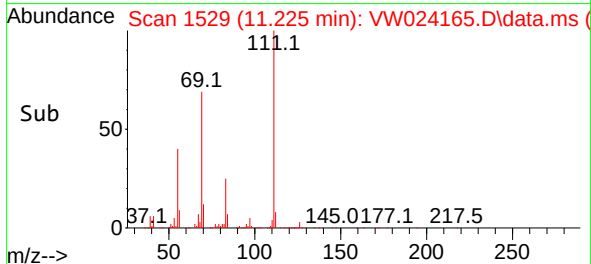
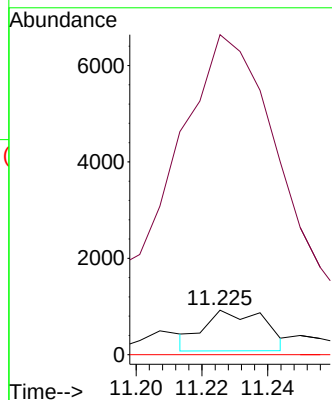
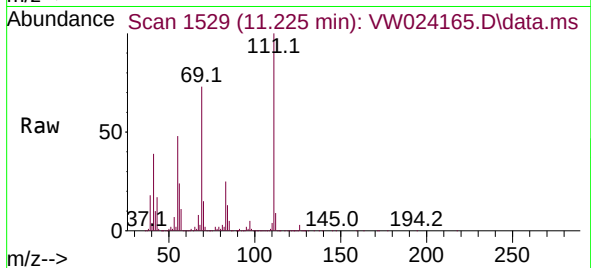
Tgt Ion:107 Resp: 1066

Ion Ratio Lower Upper

107 100

109 720.1 64.0 119.0#

188 0.0 3.1 4.7#



#52

Ethylbenzene

Concen: 220.119 ug/L

RT: 11.725 min Scan# 1611

Delta R.T. -0.006 min

Lab File: VW024165.D

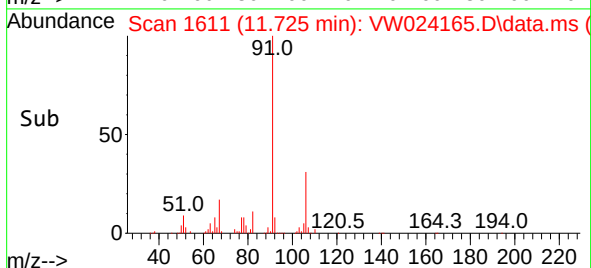
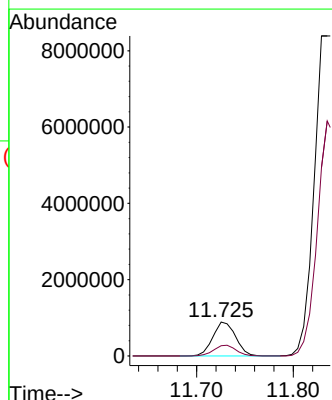
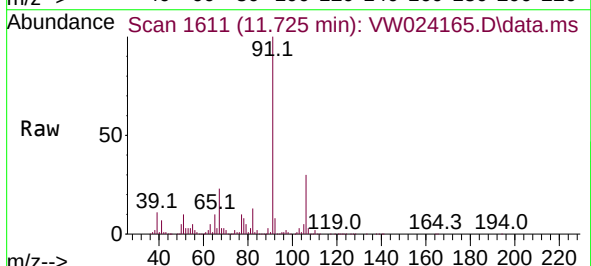
Acq: 04 Aug 2022 17:04

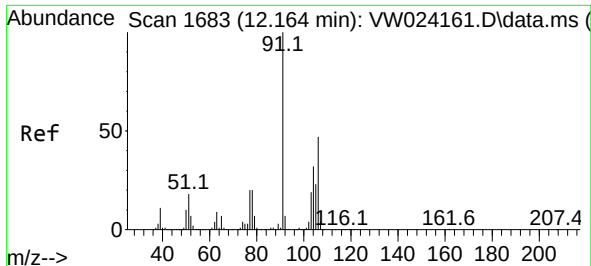
Tgt Ion: 91 Resp: 1449860

Ion Ratio Lower Upper

91 100

106 30.5 21.9 40.7

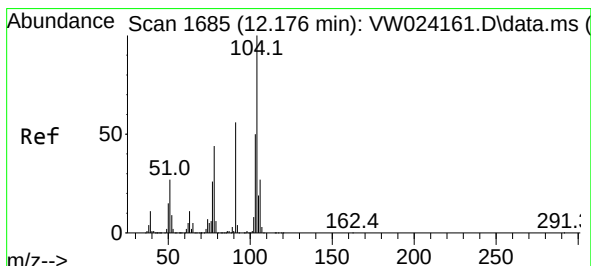
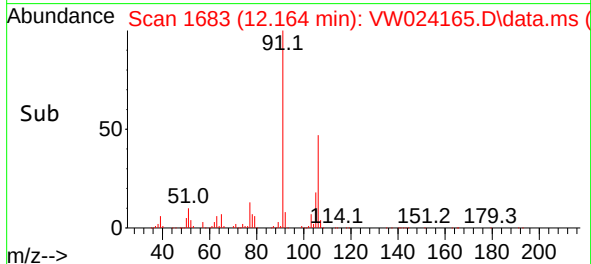
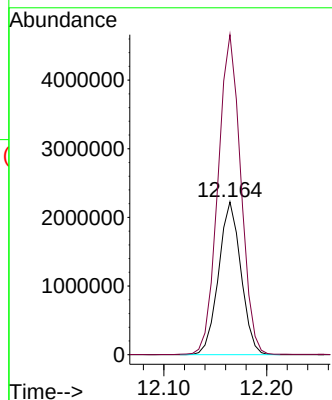
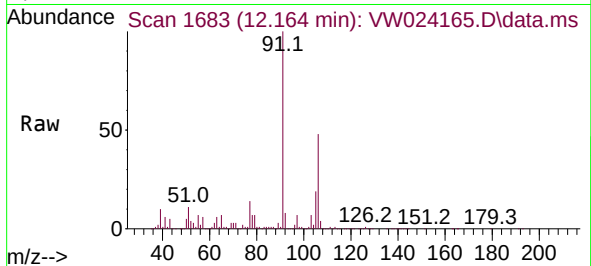




#54  
o-Xylene  
Concen: 1385.559 ug/L  
RT: 12.164 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

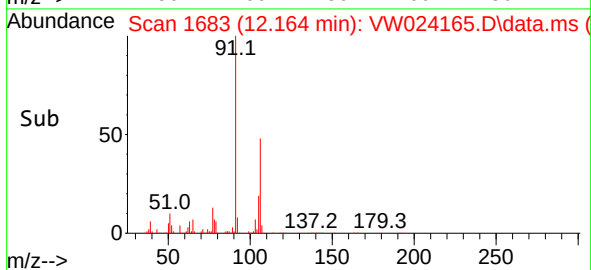
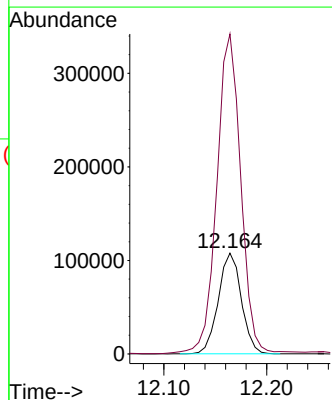
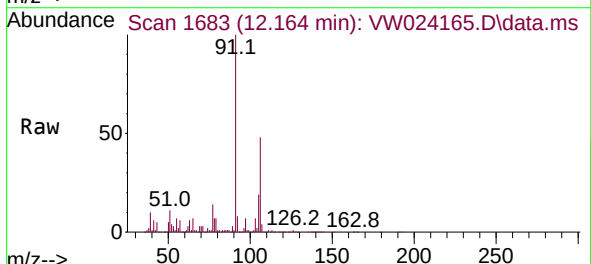
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0ZF2

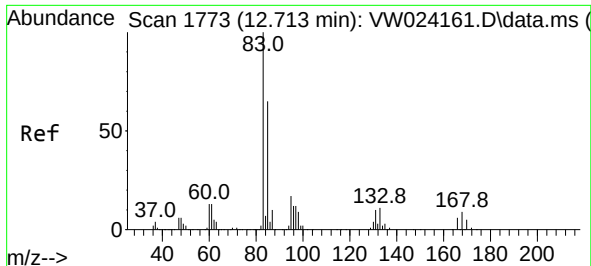
Tgt Ion:106 Resp: 3356119  
Ion Ratio Lower Upper  
106 100  
91 209.4 150.9 280.3



#55  
Styrene  
Concen: 39.732 ug/L  
RT: 12.164 min Scan# 1683  
Delta R.T. -0.012 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

Tgt Ion:104 Resp: 167379  
Ion Ratio Lower Upper  
104 100  
78 317.6 31.1 57.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 58.290 ug/L

RT: 12.689 min Scan# 1

Delta R.T. -0.024 min

Lab File: VW024165.D

Acq: 04 Aug 2022 17:04

Instrument :

MSVOA\_W

ClientSampleId :

C0ZF2

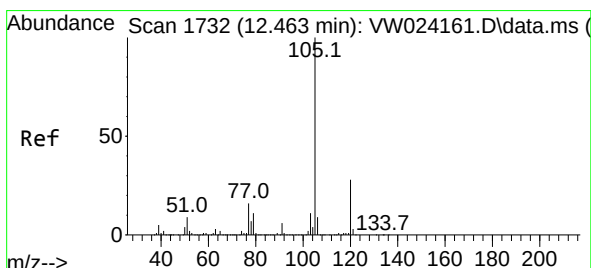
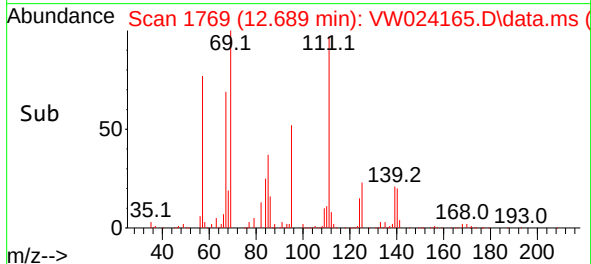
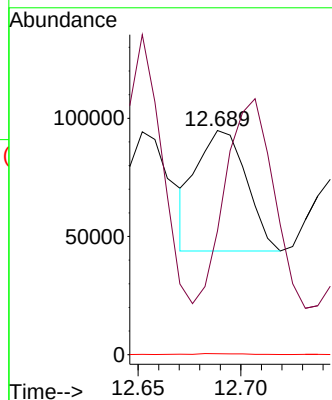
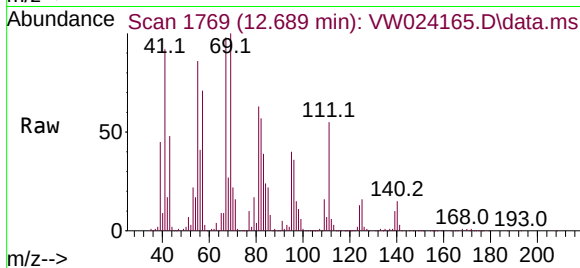
Tgt Ion: 83 Resp: 85869

Ion Ratio Lower Upper

83 100

85 55.2 44.1 81.9

131 0.5 8.3 12.5#



#60

Isopropylbenzene

Concen: 39.119 ug/L

RT: 12.463 min Scan# 1732

Delta R.T. 0.000 min

Lab File: VW024165.D

Acq: 04 Aug 2022 17:04

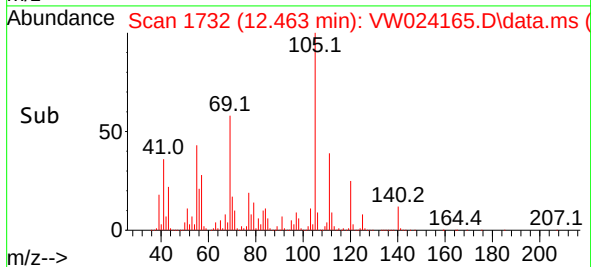
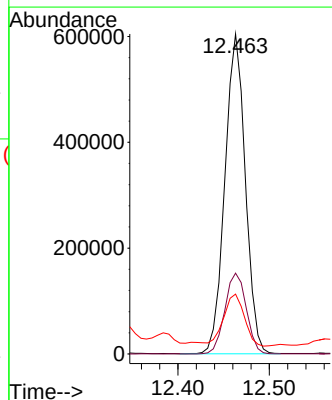
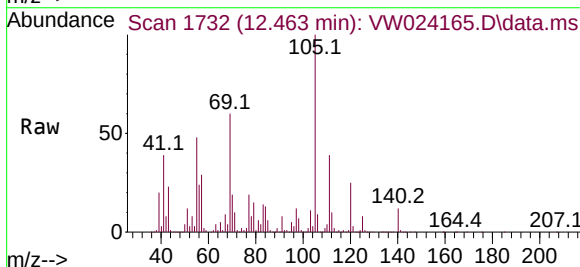
Tgt Ion:105 Resp: 940451

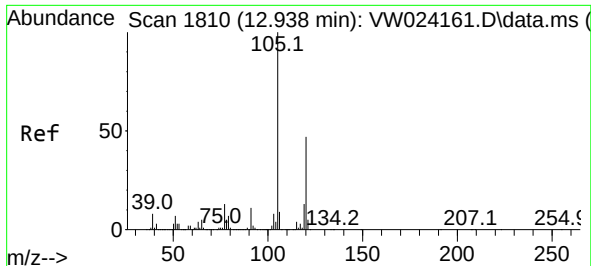
Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.2

77 16.4 12.4 18.6

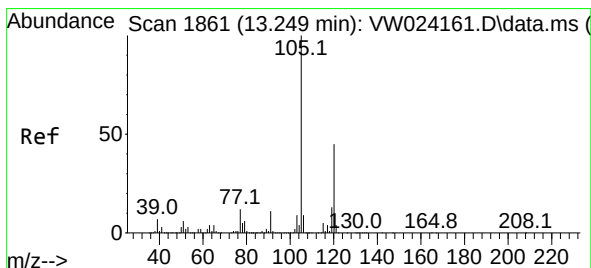
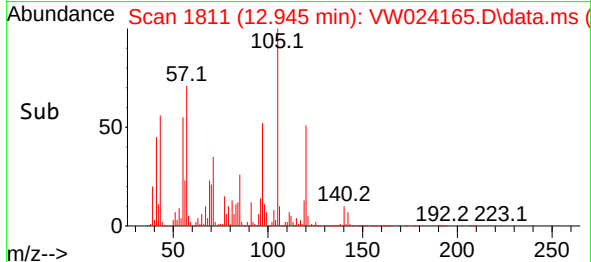
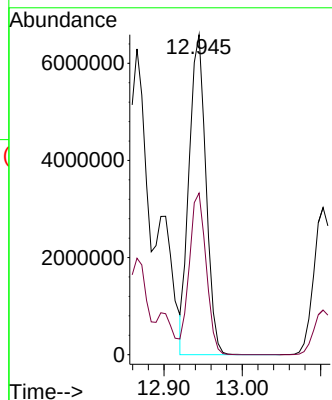
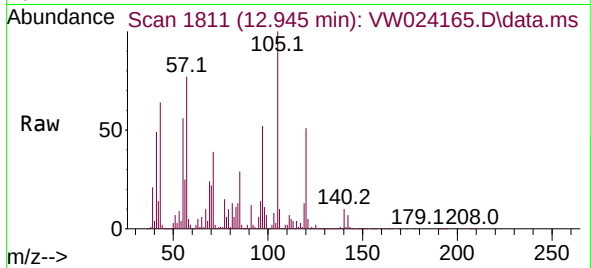




#62  
 1,3,5-Trimethylbenzene  
 Concen: 494.431 ug/L  
 RT: 12.945 min Scan# 1811  
 Delta R.T. 0.006 min  
 Lab File: VW024165.D  
 Acq: 04 Aug 2022 17:04

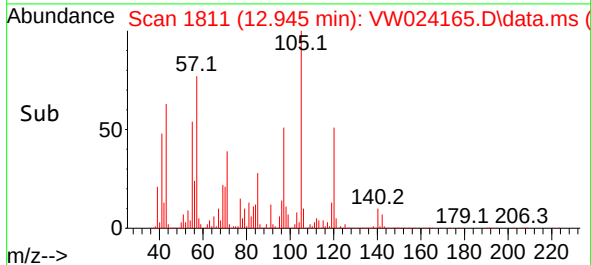
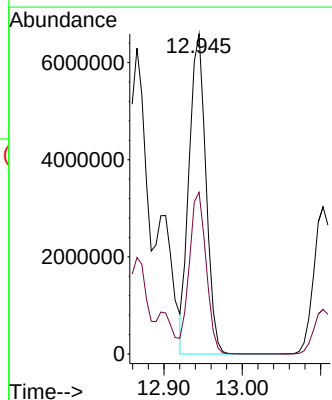
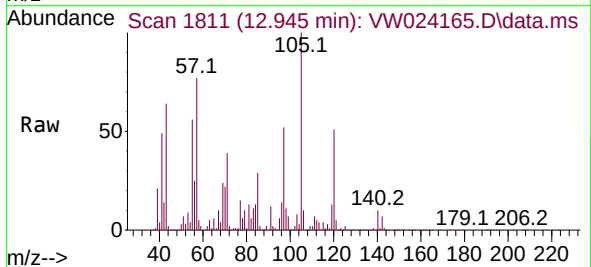
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0ZF2

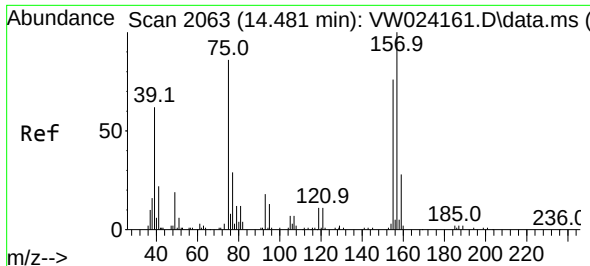
Tgt Ion:105 Resp: 9822765  
 Ion Ratio Lower Upper  
 105 100  
 120 50.5 39.7 59.5



#63  
 1,2,4-Trimethylbenzene  
 Concen: 502.038 ug/L  
 RT: 12.945 min Scan# 1811  
 Delta R.T. -0.305 min  
 Lab File: VW024165.D  
 Acq: 04 Aug 2022 17:04

Tgt Ion:105 Resp: 9822765  
 Ion Ratio Lower Upper  
 105 100  
 120 50.5 36.4 54.6





#68

1,2-Dibromo-3-chloropropane

Concen: 43.490 ug/L

RT: 14.499 min Scan# 2066

Delta R.T. 0.018 min

Lab File: VW024165.D

Acq: 04 Aug 2022 17:04

Instrument :

MSVOA\_W

ClientSampleId :

C0ZF2

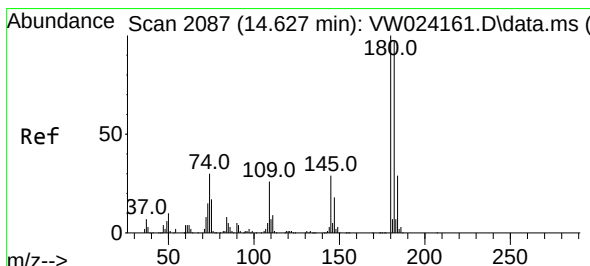
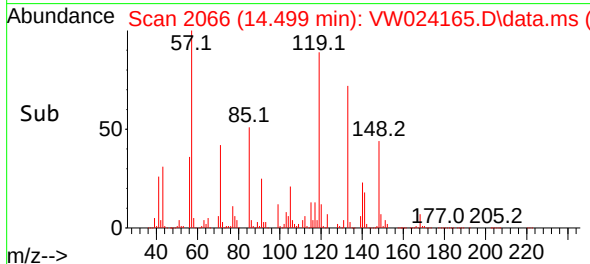
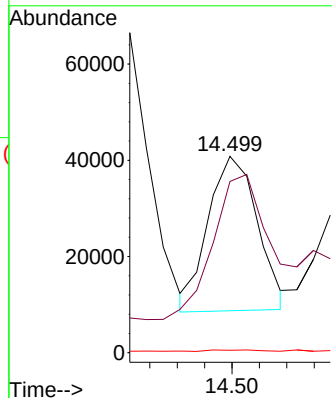
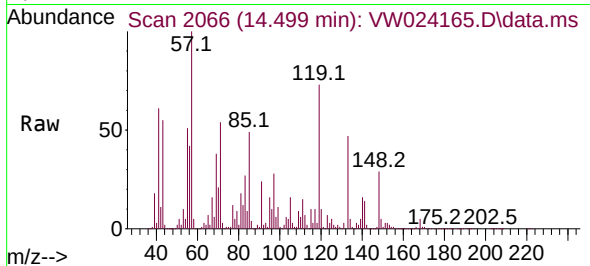
Tgt Ion: 75 Resp: 40158

Ion Ratio Lower Upper

75 100

155 87.2 68.8 103.2

157 1.2 91.5 137.3#



#69

1,3,5-Trichlorobenzene

Concen: 0.650 ug/L

RT: 14.652 min Scan# 2091

Delta R.T. 0.024 min

Lab File: VW024165.D

Acq: 04 Aug 2022 17:04

Tgt Ion:180 Resp: 5021

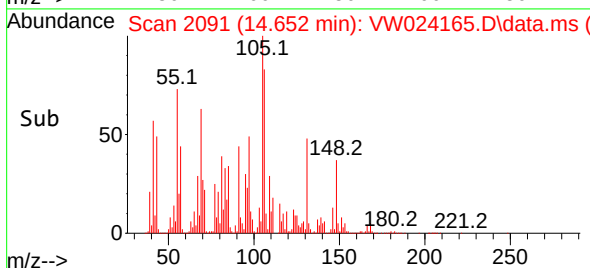
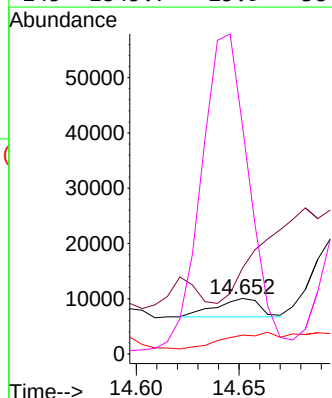
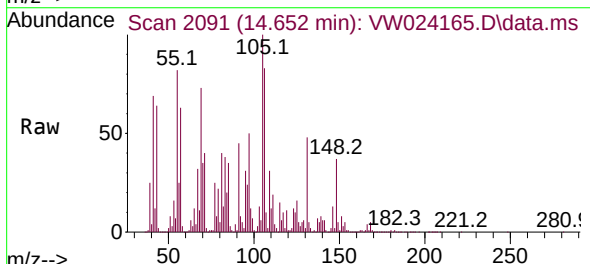
Ion Ratio Lower Upper

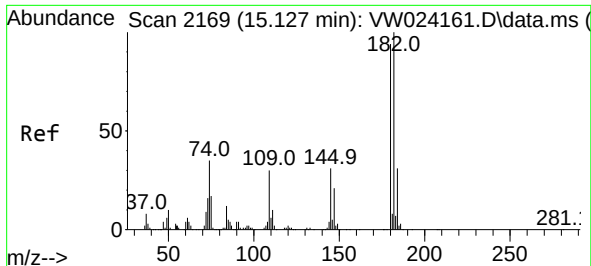
180 100

182 108.8 78.4 117.6

184 0.0 24.7 37.1#

145 1845.7 25.9 38.9#

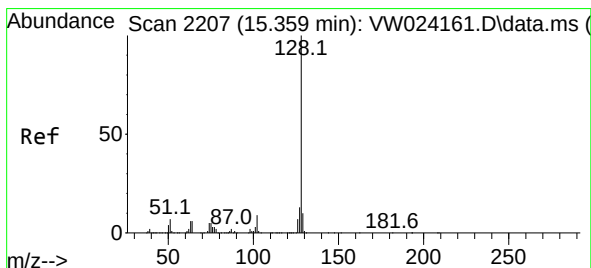
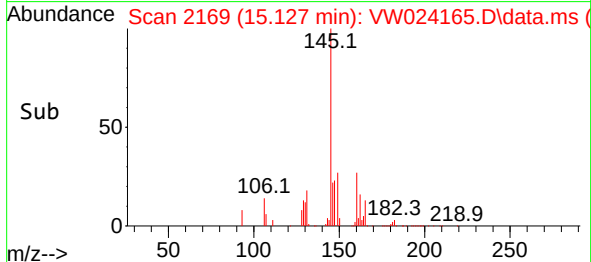
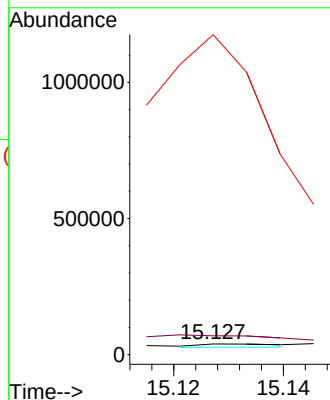
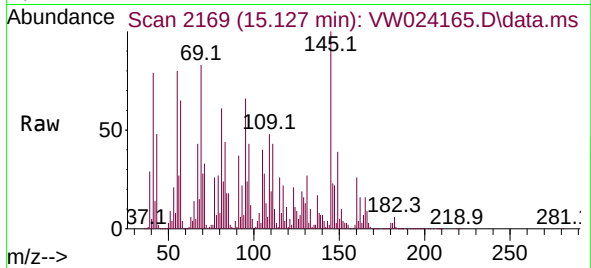




#70  
1,2,4-trichlorobenzene  
Concen: 1.916 ug/L  
RT: 15.127 min Scan# 2169  
Delta R.T. 0.000 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

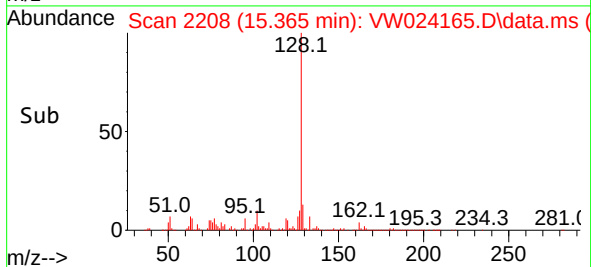
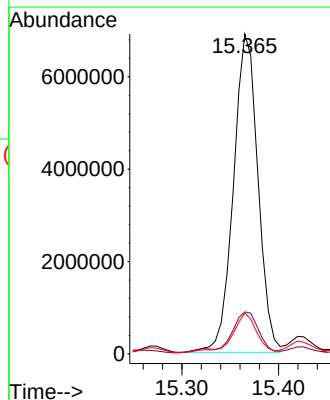
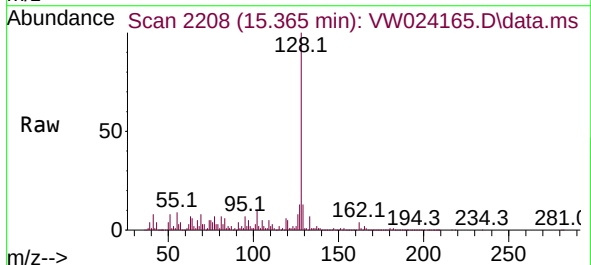
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0ZF2

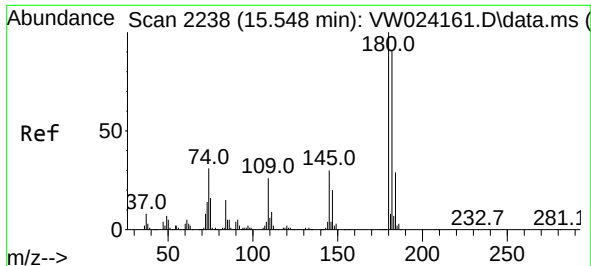
Tgt Ion:180 Resp: 11842  
Ion Ratio Lower Upper  
180 100  
182 1192.3 75.0 112.4#  
145 21848.1 25.1 37.7#



#71  
Naphthalene  
Concen: 1007.366 ug/L  
RT: 15.365 min Scan# 2208  
Delta R.T. 0.006 min  
Lab File: VW024165.D  
Acq: 04 Aug 2022 17:04

Tgt Ion:128 Resp:12129994  
Ion Ratio Lower Upper  
128 100  
127 14.1 10.7 16.1  
129 10.2 8.8 13.2





#72  
 1,2,3-Trichlorobenzene  
 Concen: 9.818 ug/L  
 RT: 15.572 min Scan# 21  
 Delta R.T. 0.024 min  
 Lab File: VW024165.D  
 Acq: 04 Aug 2022 17:04

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0ZF2

Tgt Ion:180 Resp: 55259  
 Ion Ratio Lower Upper  
 180 100  
 182 52.2 75.4 113.2#  
 145 3623.0 26.9 40.3#

