

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW101821\  
 Data File : VW022877.D  
 Acq On : 18 Oct 2021 19:27  
 Operator : SY/MD  
 Sample : M4200-04  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 19 01:46:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR100721WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Oct 19 01:43:03 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.619  | 114   | 118297   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.854  | 117   | 121159   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.252 | 152   | 58549    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65    | 35137    | 4.317    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 86.400%  |
| 7) Chloroethane-d5            | 1.564  | 69    | 29362    | 4.015    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 80.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.105  | 63    | 51781    | 3.243    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 64.800%  |
| 20) 2-Butanone-d5             | 3.892  | 46    | 113473   | 53.172   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 106.340% |
| 24) Chloroform-d              | 4.352  | 84    | 94428    | 5.630    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 112.600% |
| 26) 1,2-Dichloroethane-d4     | 5.034  | 65    | 44172    | 5.426    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 108.600% |
| 32) Benzene-d6                | 5.053  | 84    | 182623   | 5.063    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 101.200% |
| 36) 1,2-Dichloropropane-d6    | 6.072  | 67    | 57651    | 5.397    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 108.000% |
| 41) Toluene-d8                | 7.317  | 98    | 150634   | 4.831    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.600%  |
| 43) trans-1,3-Dichloroprop... | 7.625  | 79    | 18164    | 5.126    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 102.600% |
| 46) 2-Hexanone-d5             | 8.091  | 63    | 90478    | 63.362   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 126.720% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.220 | 84    | 42577    | 5.884    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 117.600% |
| 66) 1,2-Dichlorobenzene-d4    | 11.625 | 152   | 62002    | 5.712    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 114.200% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.240  | 50    | 635      | 0.073    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.307  | 62    | 8137     | 0.909    | ug/L   | 92       |
| 12) 1,1-Dichloroethene        | 2.117  | 96    | 1336     | 0.187    | ug/L # | 1        |
| 13) Acetone                   | 2.188  | 43    | 110520   | 92.873   | ug/L # | 42       |
| 14) Carbon disulfide          | 2.294  | 76    | 3250     | 0.162    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.378  | 43    | 34527    | 10.140   | ug/L # | 50       |
| 17) Methyl tert-butyl Ether   | 2.770  | 73    | 16963    | 0.981    | ug/L # | 93       |
| 18) trans-1,2-Dichloroethene  | 2.764  | 96    | 8655     | 1.114    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.912  | 96    | 579605   | 71.032   | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.072  | 83    | 14218    | 1.144    | ug/L # | 16       |
| 37) 1,2-Dichloropropane       | 6.069  | 63    | 6297     | 0.802    | ug/L # | 84       |
| 42) Toluene                   | 7.391  | 91    | 119758   | 3.615    | ug/L   | 97       |
| 48) 2-Hexanone                | 8.091  | 43    | 10144    | 3.290    | ug/L # | 71       |
| 52) Ethylbenzene              | 9.021  | 91    | 1974     | 0.059    | ug/L   | 99       |
| 53) m,p-xylene                | 9.146  | 106   | 2330     | 0.177    | ug/L   | 97       |
| 54) o-xylene                  | 9.558  | 106   | 1035     | 0.083    | ug/L   | 88       |
| 61) 1,2,3-Trichloropropane    | 11.191 | 75    | 1173     | 0.288    | ug/L # | 64       |
| 63) 1,2,4-Trimethylbenzene    | 10.921 | 105   | 2082     | 0.087    | ug/L   | 95       |
| 64) 1,3-Dichlorobenzene       | 11.188 | 146   | 3999     | 0.256    | ug/L   | 88       |

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 Sample : M4200-04  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 19 01:46:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR100721WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Oct 19 01:43:03 2021  
 Response via : Initial Calibration

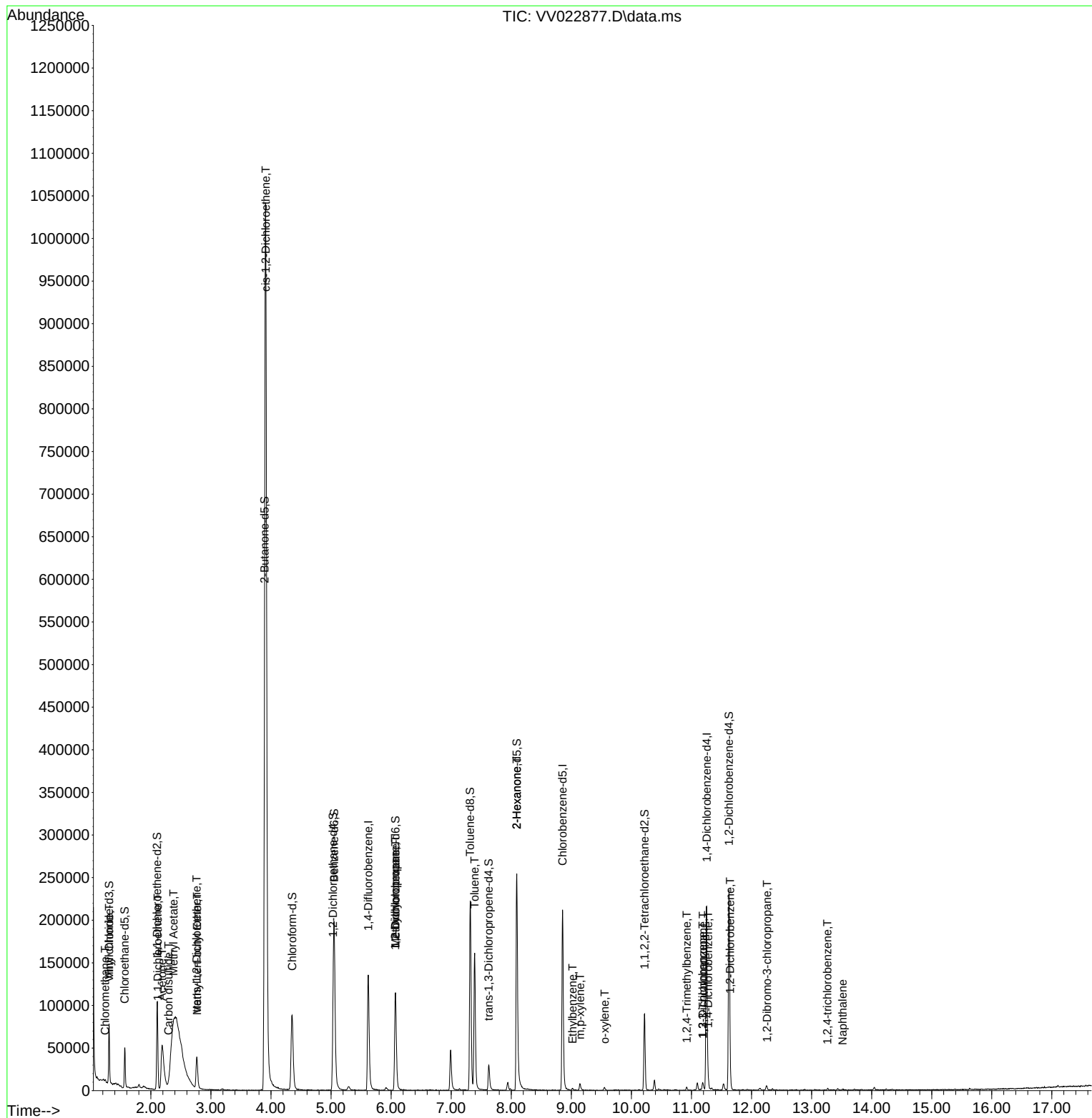
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 65) 1,4-Dichlorobenzene       | 11.278 | 146  | 4764     | 0.301 | ug/L   | 90       |
| 67) 1,2-Dichlorobenzene       | 11.644 | 146  | 4062     | 0.277 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.259 | 75   | 118      | 0.159 | ug/L # | 1        |
| 70) 1,2,4-trichlorobenzene    | 13.262 | 180  | 671      | 0.075 | ug/L   | 95       |
| 71) Naphthalene               | 13.516 | 128  | 1093     | 0.077 | ug/L # | 68       |

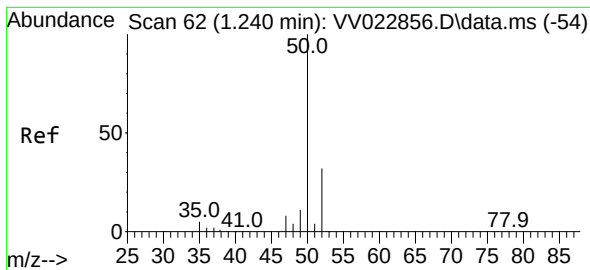
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Quant Time: Oct 19 01:46:13 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR100721WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Oct 19 01:43:03 2021  
Response via : Initial Calibration

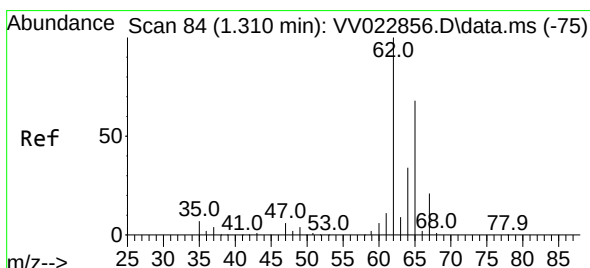
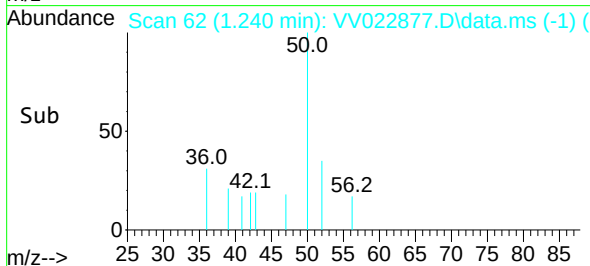
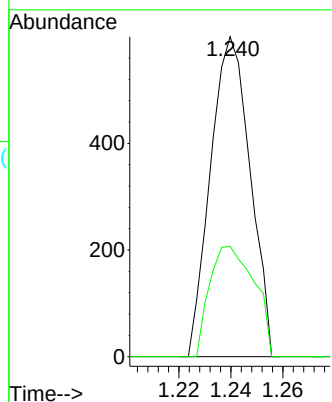
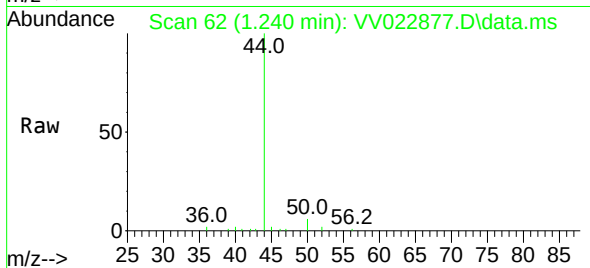




#3  
Chloromethane  
Concen: 0.073 ug/L  
RT: 1.240 min Scan# 62  
Delta R.T. 0.000 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

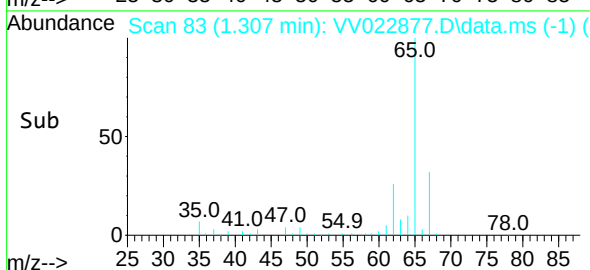
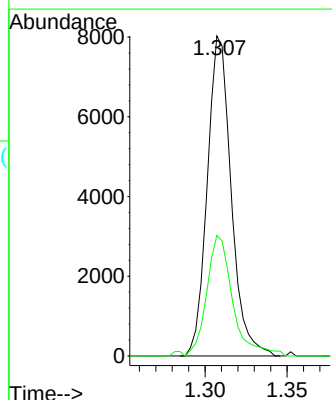
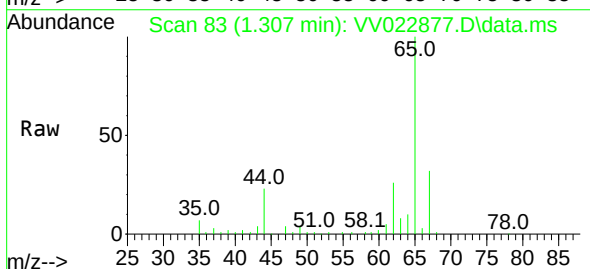
Instrument :  
MSVOA\_V  
ClientSampled :

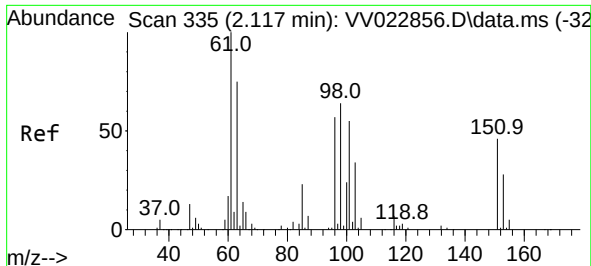
Tgt Ion: 50 Resp: 635  
Ion Ratio Lower Upper  
50 100  
52 34.5 22.9 42.5



#5  
Vinyl chloride  
Concen: 0.909 ug/L  
RT: 1.307 min Scan# 83  
Delta R.T. -0.003 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Tgt Ion: 62 Resp: 8137  
Ion Ratio Lower Upper  
62 100  
64 37.7 23.0 42.8

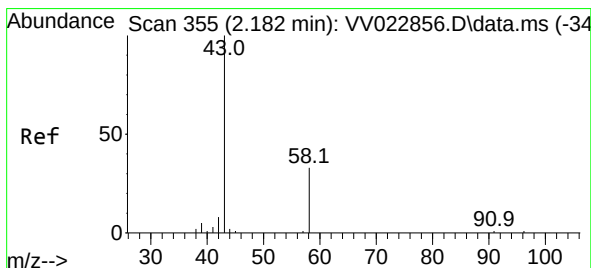
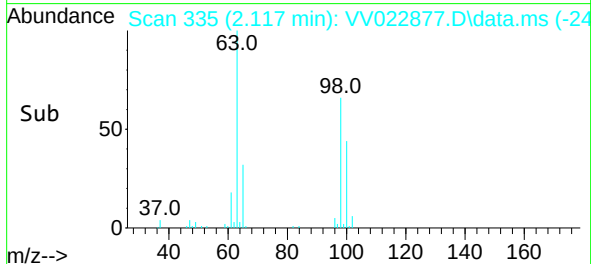
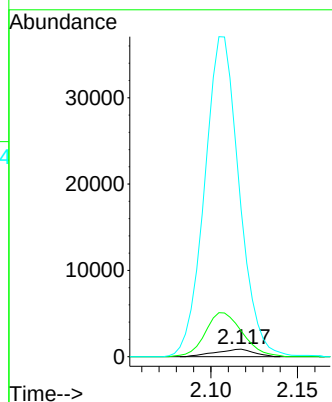
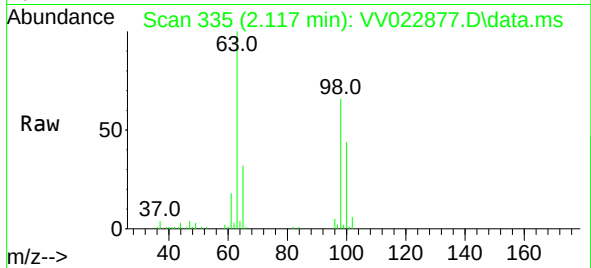




#12  
1,1-Dichloroethene  
Concen: 0.187 ug/L  
RT: 2.117 min Scan# 335  
Delta R.T. 0.000 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

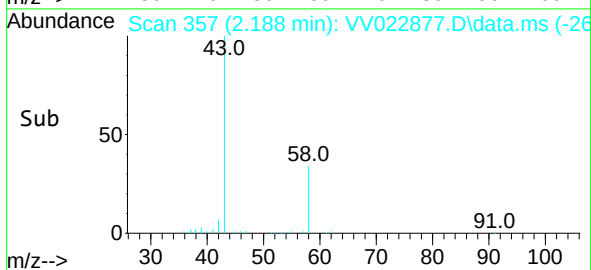
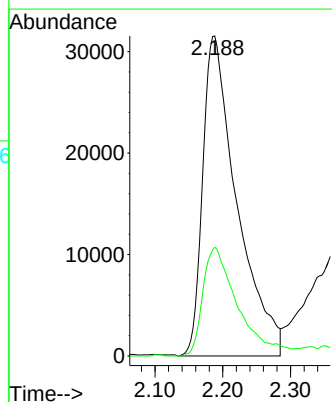
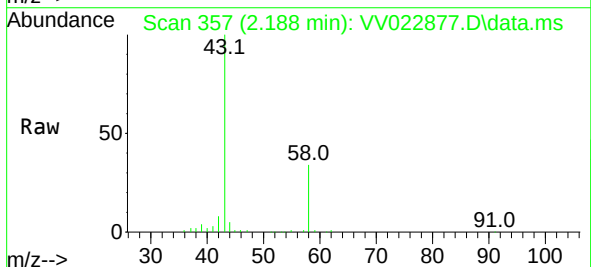
Instrument :  
MSVOA\_V  
ClientSampled :

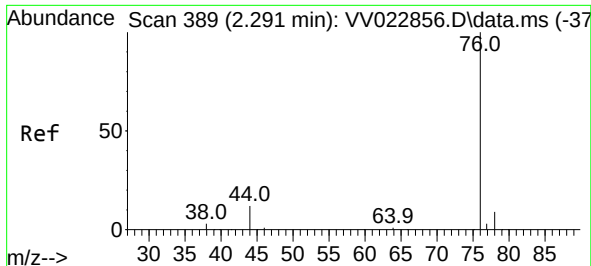
Tgt Ion: 96 Resp: 1336  
Ion Ratio Lower Upper  
96 100  
61 343.5 127.3 236.5#  
63 1951.4 106.2 197.2#



#13  
Acetone  
Concen: 92.873 ug/L  
RT: 2.188 min Scan# 357  
Delta R.T. 0.006 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

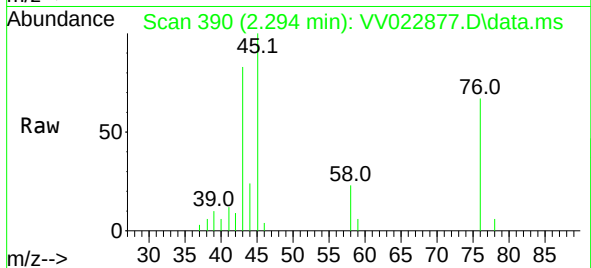
Tgt Ion: 43 Resp: 110520  
Ion Ratio Lower Upper  
43 100  
58 34.8 0.0 24.2#



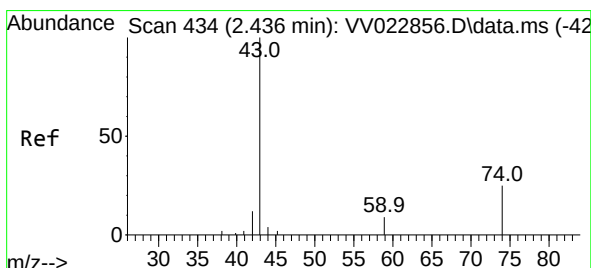
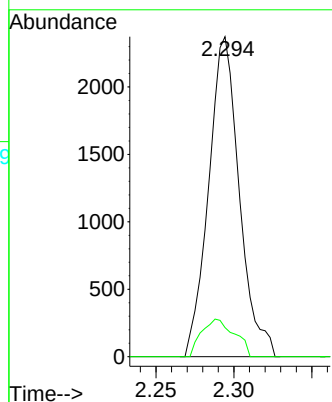
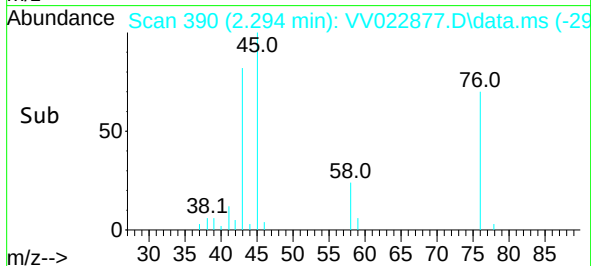


#14  
Carbon disulfide  
Concen: 0.162 ug/L  
RT: 2.294 min Scan# 390  
Delta R.T. 0.003 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

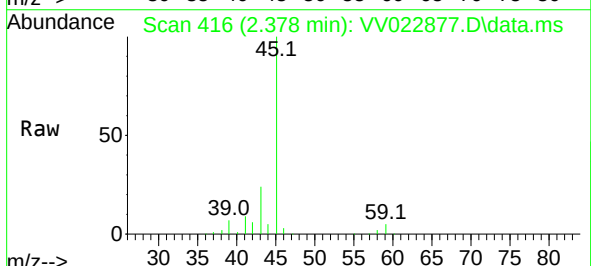
Instrument :  
MSVOA\_V  
ClientSampled :



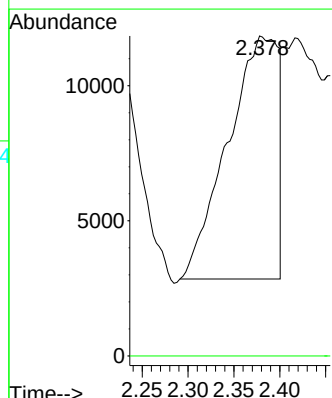
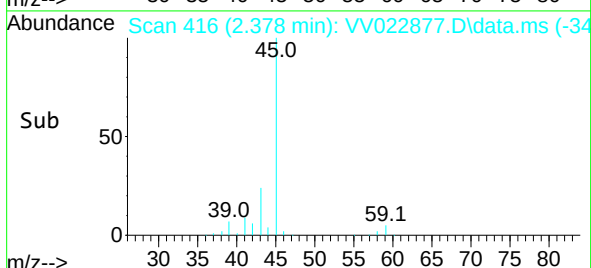
Tgt Ion: 76 Resp: 3250  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.4 11.0

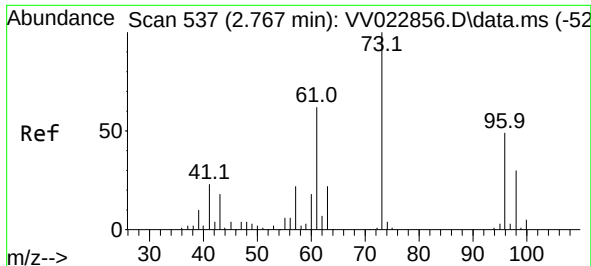


#15  
Methyl Acetate  
Concen: 10.140 ug/L  
RT: 2.378 min Scan# 416  
Delta R.T. -0.058 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27



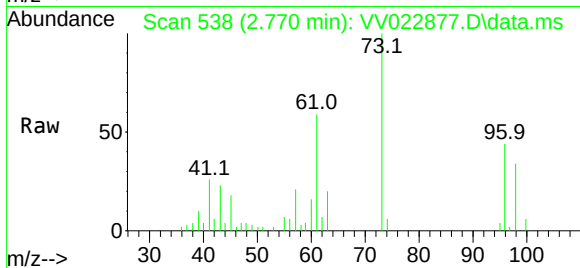
Tgt Ion: 43 Resp: 34527  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.9 29.9#



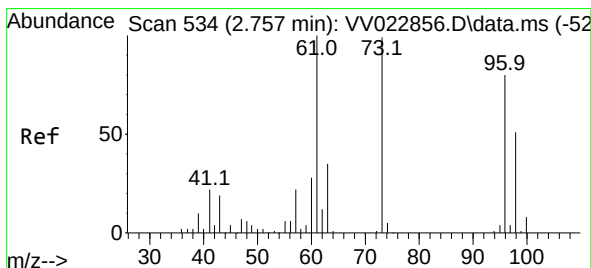
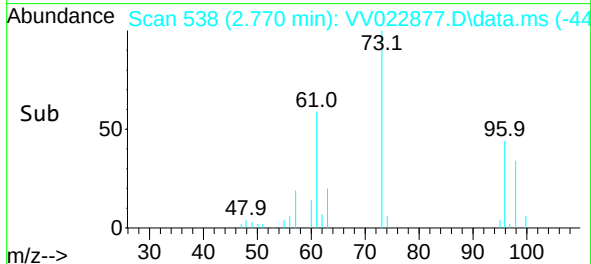
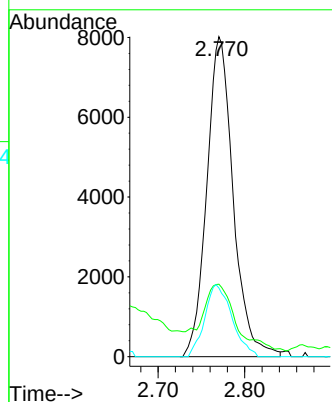


#17  
Methyl tert-butyl Ether  
Concen: 0.981 ug/L  
RT: 2.770 min Scan# 538  
Delta R.T. 0.003 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Instrument :  
MSVOA\_V  
ClientSampleId :

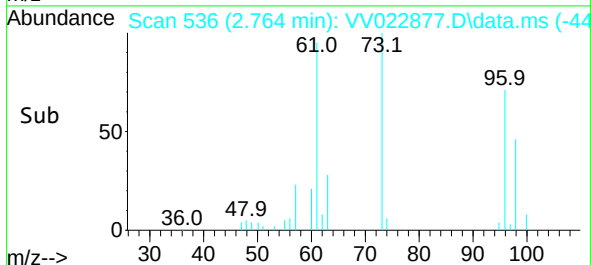
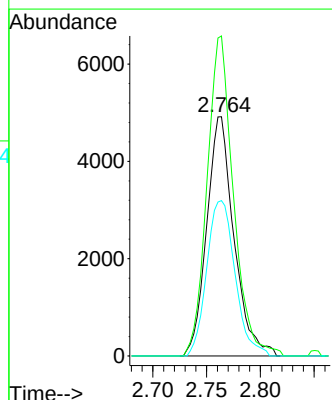
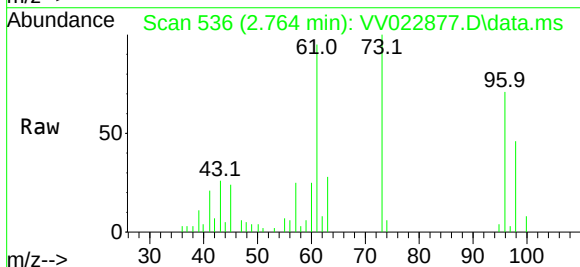


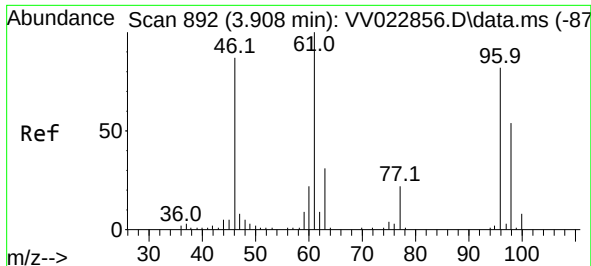
Tgt Ion: 73 Resp: 16963  
Ion Ratio Lower Upper  
73 100  
43 26.7 17.1 25.7#  
57 23.2 17.2 25.8



#18  
trans-1,2-Dichloroethene  
Concen: 1.114 ug/L  
RT: 2.764 min Scan# 536  
Delta R.T. 0.006 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Tgt Ion: 96 Resp: 8655  
Ion Ratio Lower Upper  
96 100  
61 133.8 94.5 175.5  
98 65.0 44.2 82.0

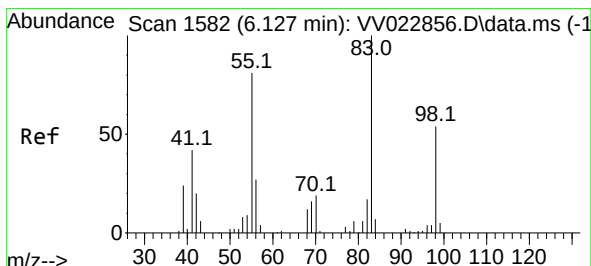
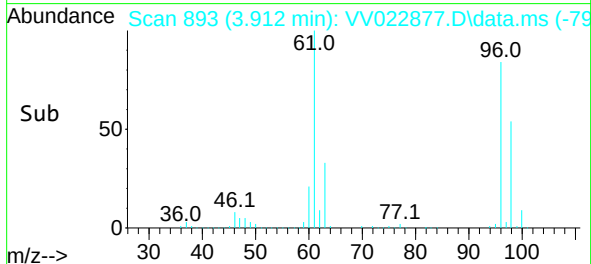
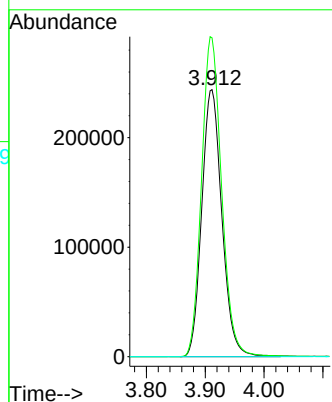
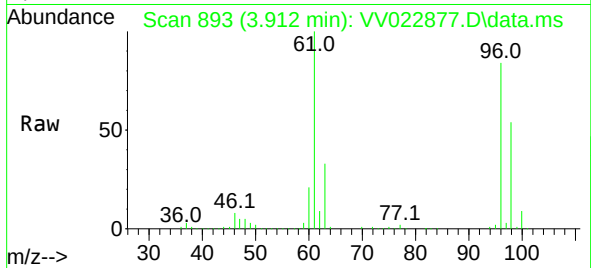




#22  
 cis-1,2-Dichloroethene  
 Concen: 71.032 ug/L  
 RT: 3.912 min Scan# 893  
 Delta R.T. 0.003 min  
 Lab File: VV022877.D  
 Acq: 18 Oct 2021 19:27

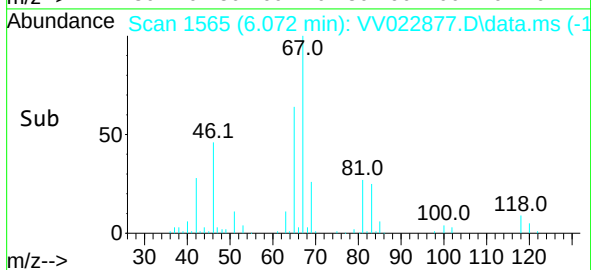
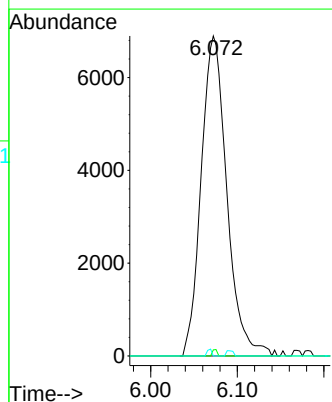
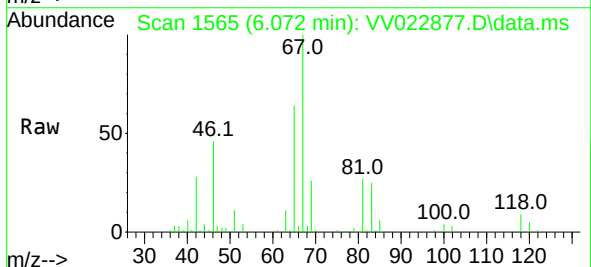
Instrument :  
 MSVOA\_V  
 ClientSampled :

Tgt Ion: 96 Resp: 579605  
 Ion Ratio Lower Upper  
 96 100  
 61 119.4 86.0 159.6  
 68 0.0 0.0 0.0

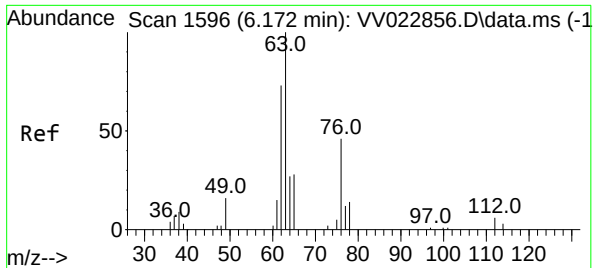


#35  
 Methylcyclohexane  
 Concen: 1.144 ug/L  
 RT: 6.072 min Scan# 1565  
 Delta R.T. -0.055 min  
 Lab File: VV022877.D  
 Acq: 18 Oct 2021 19:27

Tgt Ion: 83 Resp: 14218  
 Ion Ratio Lower Upper  
 83 100  
 55 0.4 63.8 95.6#  
 98 0.4 42.1 63.1#



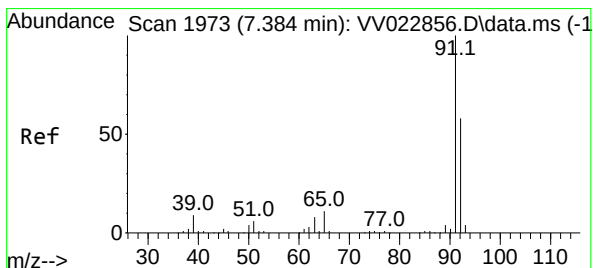
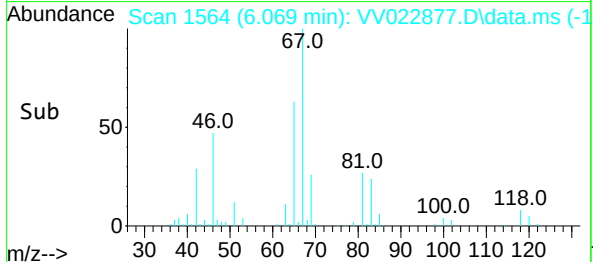
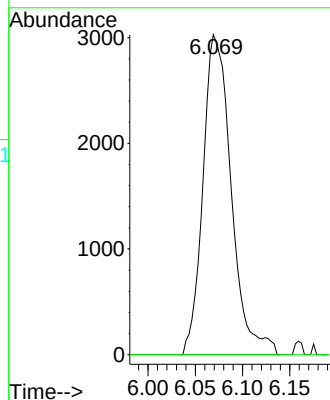
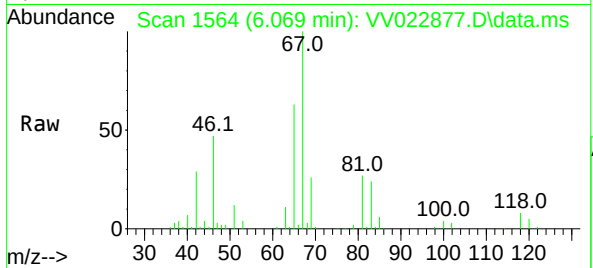




#37  
1,2-Dichloropropane  
Concen: 0.802 ug/L  
RT: 6.069 min Scan# 1564  
Delta R.T. -0.103 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

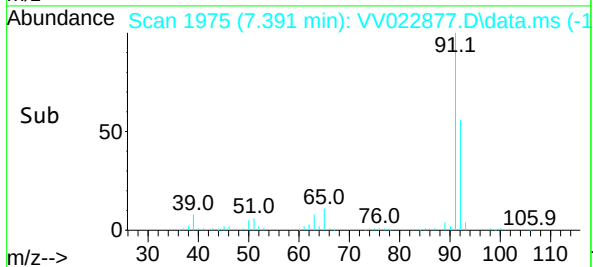
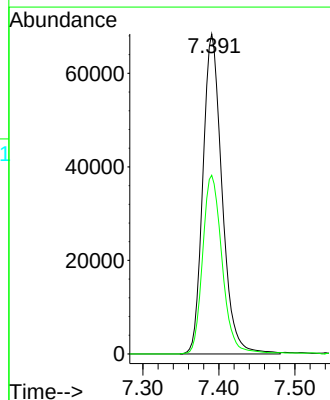
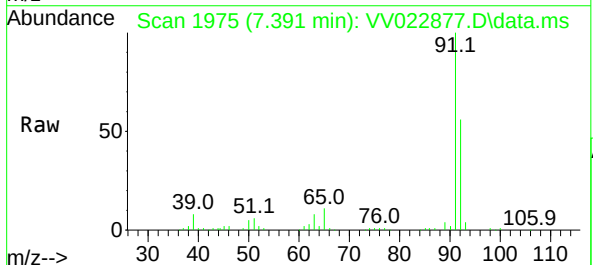
Instrument :  
MSVOA\_V  
ClientSampled :

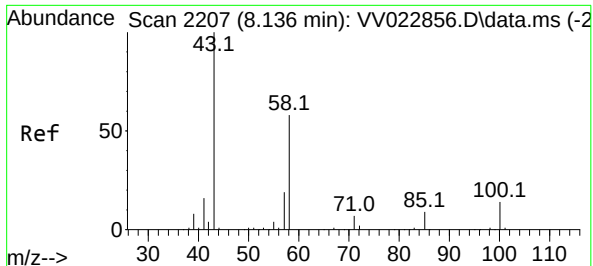
Tgt Ion: 63 Resp: 6297  
Ion Ratio Lower Upper  
63 100  
112 0.0 4.4 6.6#



#42  
Toluene  
Concen: 3.615 ug/L  
RT: 7.391 min Scan# 1975  
Delta R.T. 0.006 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Tgt Ion: 91 Resp: 119758  
Ion Ratio Lower Upper  
91 100  
92 55.9 40.7 75.7





#48

2-Hexanone

Concen: 3.290 ug/L

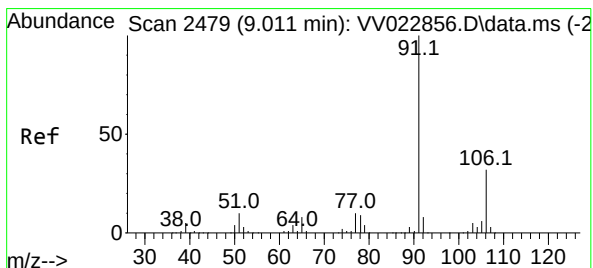
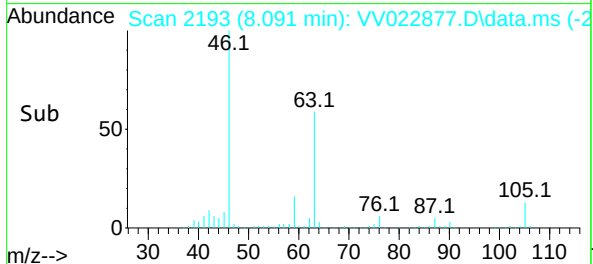
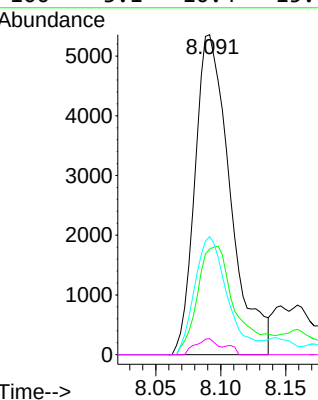
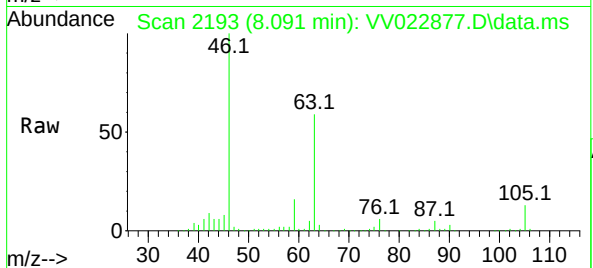
RT: 8.091 min Scan# 2193

Delta R.T. -0.045 min

Lab File: VV022877.D

Acq: 18 Oct 2021 19:27

|             |                 |
|-------------|-----------------|
| Tgt Ion: 43 | Resp: 10144     |
| Ion Ratio   | Lower Upper     |
| 43          | 100             |
| 58          | 37.4 47.4 71.0# |
| 57          | 34.3 15.3 22.9# |
| 100         | 3.1 10.4 15.6#  |



#52

Ethylbenzene

Concen: 0.059 ug/L

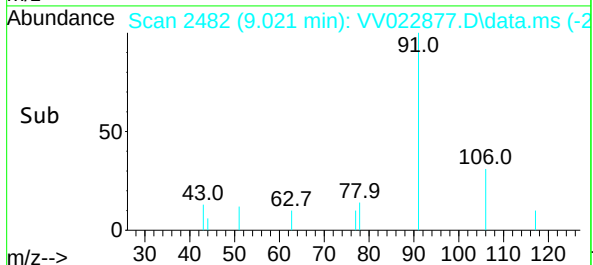
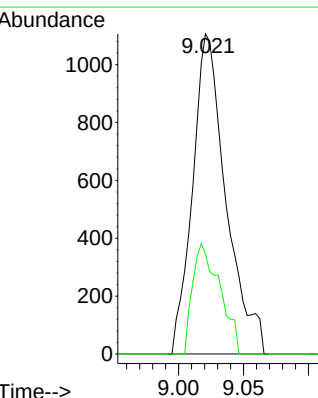
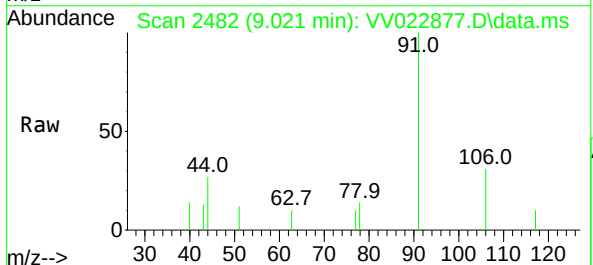
RT: 9.021 min Scan# 2482

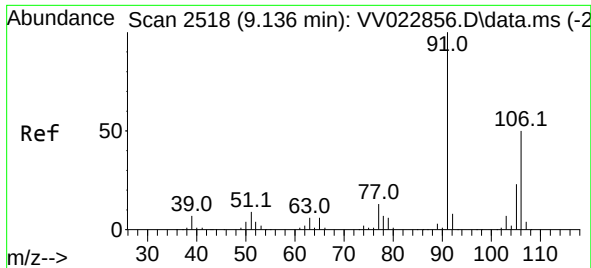
Delta R.T. 0.010 min

Lab File: VV022877.D

Acq: 18 Oct 2021 19:27

|             |                |
|-------------|----------------|
| Tgt Ion: 91 | Resp: 1974     |
| Ion Ratio   | Lower Upper    |
| 91          | 100            |
| 106         | 31.3 21.6 40.2 |

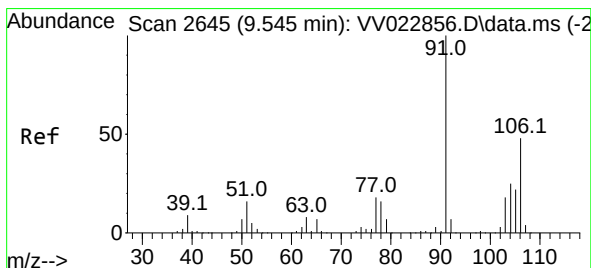
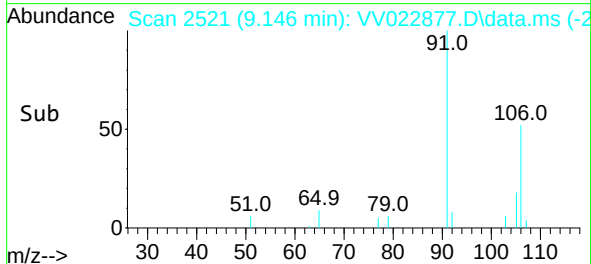
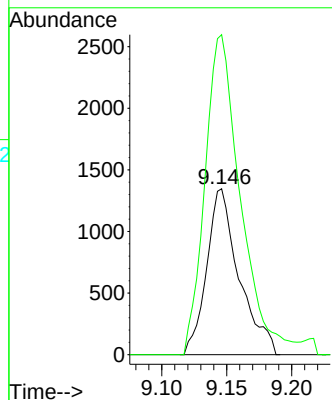
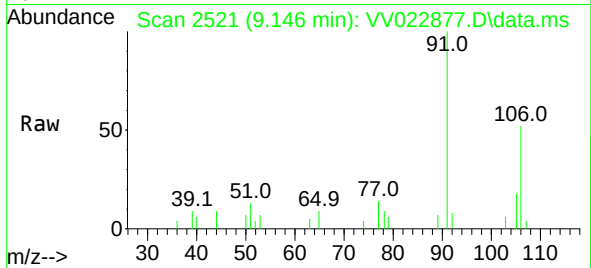




#53  
m,p-xylene  
Concen: 0.177 ug/L  
RT: 9.146 min Scan# 2521  
Delta R.T. 0.010 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

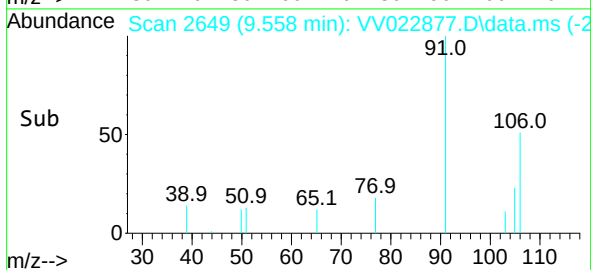
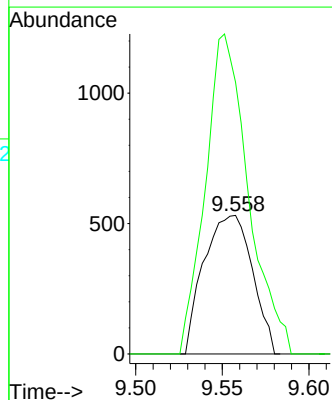
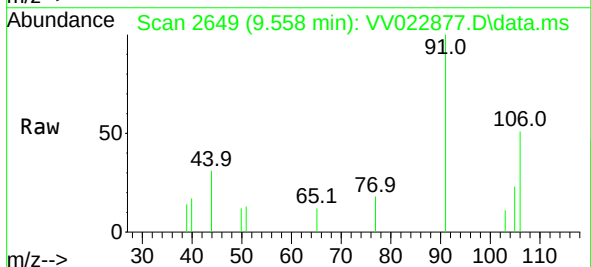
Instrument :  
MSVOA\_V  
ClientSampled :

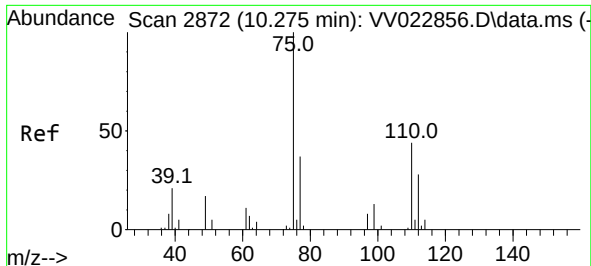
Tgt Ion:106 Resp: 2330  
Ion Ratio Lower Upper  
106 100  
91 192.9 138.7 257.5



#54  
o-xylene  
Concen: 0.083 ug/L  
RT: 9.558 min Scan# 2649  
Delta R.T. 0.013 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Tgt Ion:106 Resp: 1035  
Ion Ratio Lower Upper  
106 100  
91 196.2 151.1 280.7

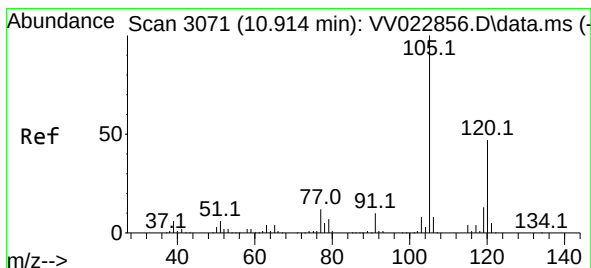
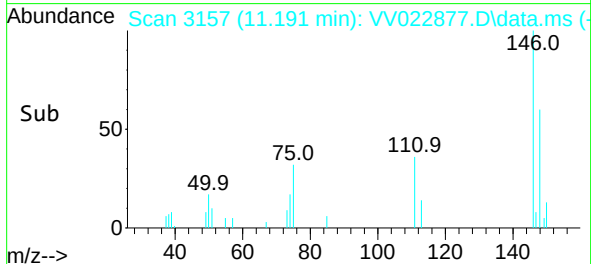
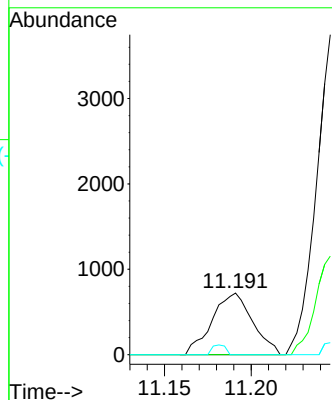
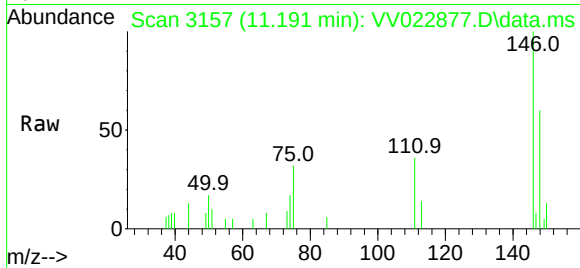




#61  
1,2,3-Trichloropropane  
Concen: 0.288 ug/L  
RT: 11.191 min Scan# 3157  
Delta R.T. 0.916 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

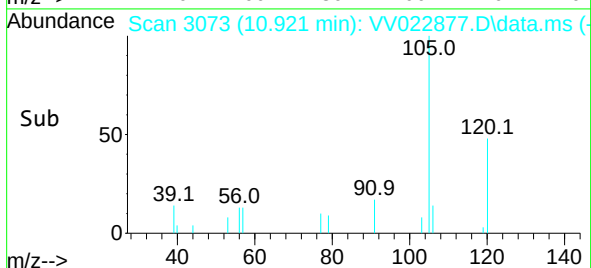
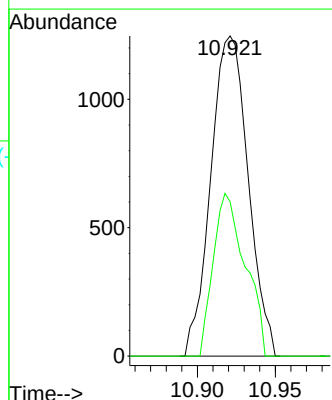
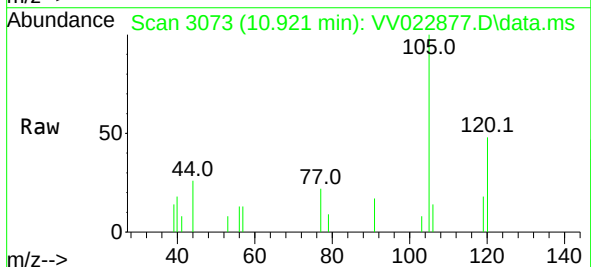
Instrument :  
MSVOA\_V  
ClientSampleId :

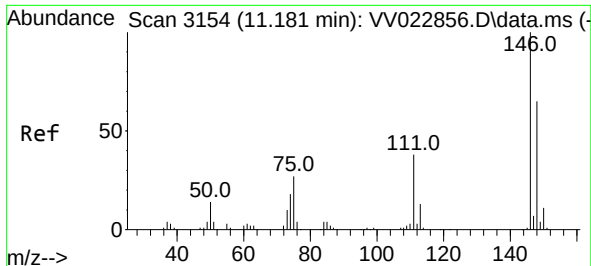
Tgt Ion: 75 Resp: 1173  
Ion Ratio Lower Upper  
75 100  
77 29.4 25.4 38.2  
110 5.2 34.2 51.4#



#63  
1,2,4-Trimethylbenzene  
Concen: 0.087 ug/L  
RT: 10.921 min Scan# 3073  
Delta R.T. 0.006 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Tgt Ion: 105 Resp: 2082  
Ion Ratio Lower Upper  
105 100  
120 43.4 37.3 55.9

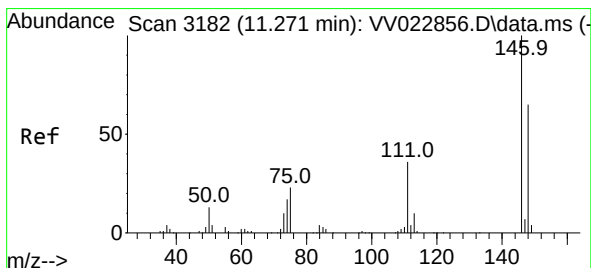
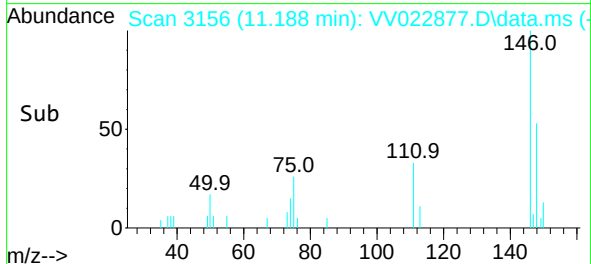
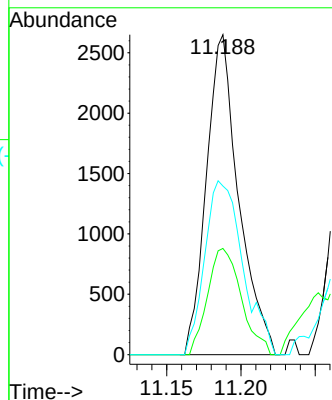
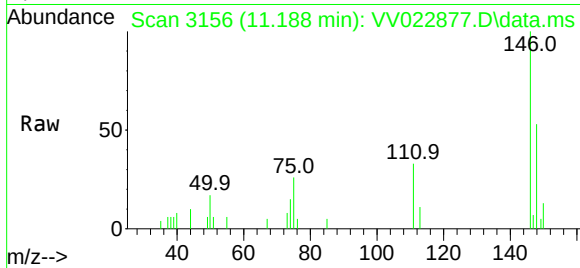




#64  
1,3-Dichlorobenzene  
Concen: 0.256 ug/L  
RT: 11.188 min Scan# 3156  
Delta R.T. 0.006 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

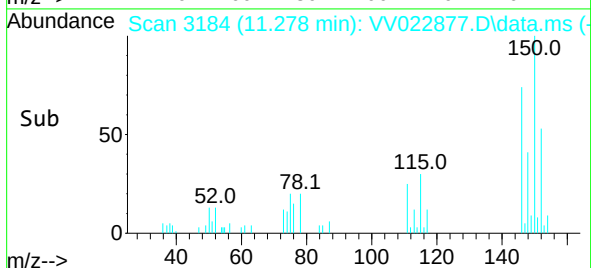
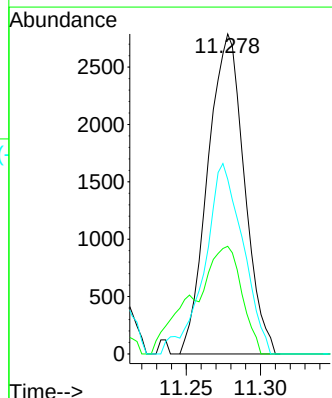
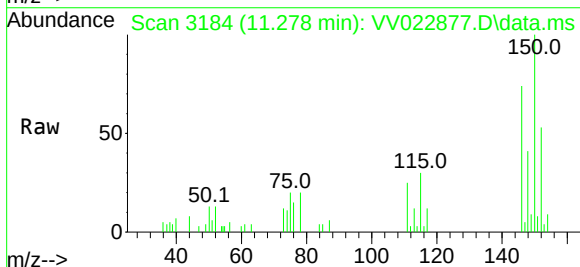
Instrument :  
MSVOA\_V  
ClientSampleId :

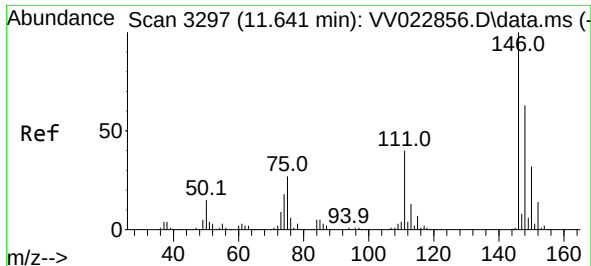
Tgt Ion:146 Resp: 3999  
Ion Ratio Lower Upper  
146 100  
111 33.2 26.7 49.5  
148 52.7 45.1 83.9



#65  
1,4-Dichlorobenzene  
Concen: 0.301 ug/L  
RT: 11.278 min Scan# 3184  
Delta R.T. 0.006 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Tgt Ion:146 Resp: 4764  
Ion Ratio Lower Upper  
146 100  
111 33.6 25.6 47.4  
148 54.6 44.9 83.5

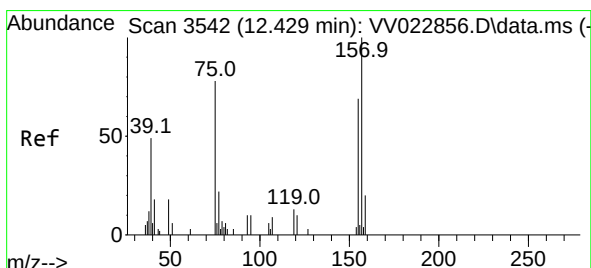
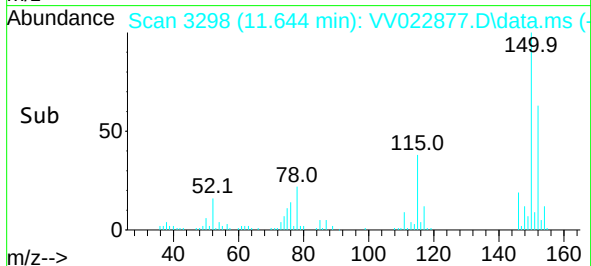
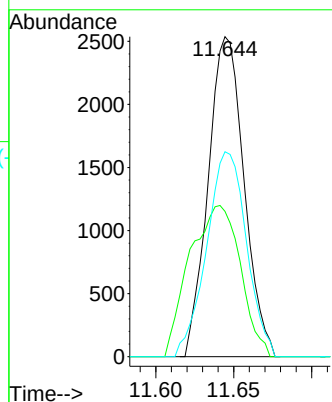
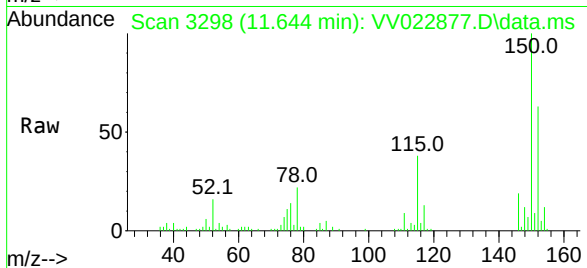




#67  
1,2-Dichlorobenzene  
Concen: 0.277 ug/L  
RT: 11.644 min Scan# 3298  
Delta R.T. 0.003 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

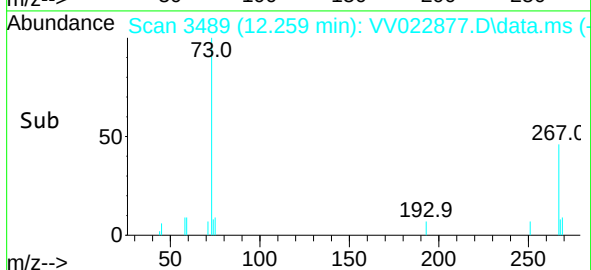
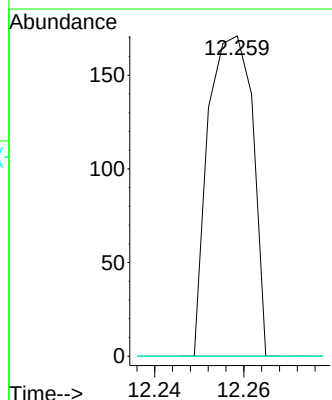
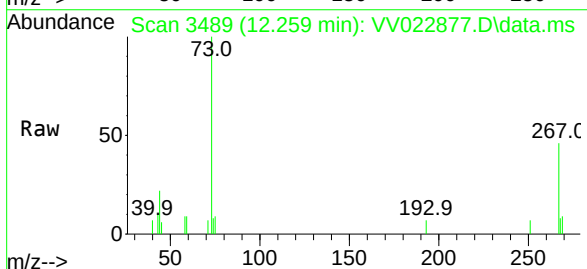
Instrument :  
MSVOA\_V  
ClientSampled :

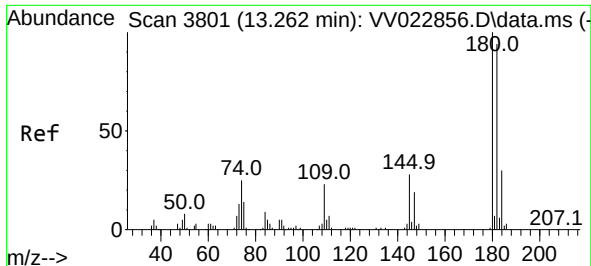
Tgt Ion:146 Resp: 4062  
Ion Ratio Lower Upper  
146 100  
111 45.4 32.3 48.5  
148 64.1 52.1 78.1



#68  
1,2-Dibromo-3-chloropropane  
Concen: 0.159 ug/L  
RT: 12.259 min Scan# 3489  
Delta R.T. -0.170 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Tgt Ion: 75 Resp: 118  
Ion Ratio Lower Upper  
75 100  
155 0.0 82.4 123.6#  
157 0.0 114.1 171.1#

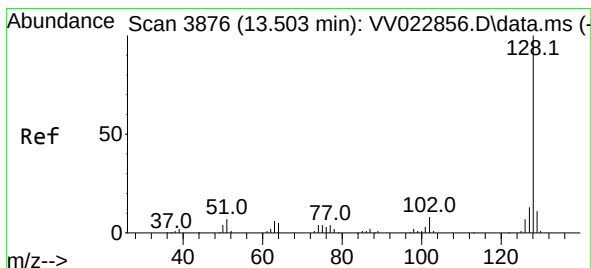
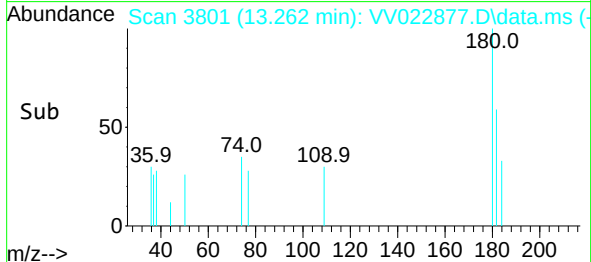
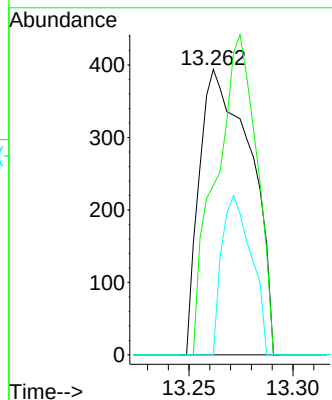
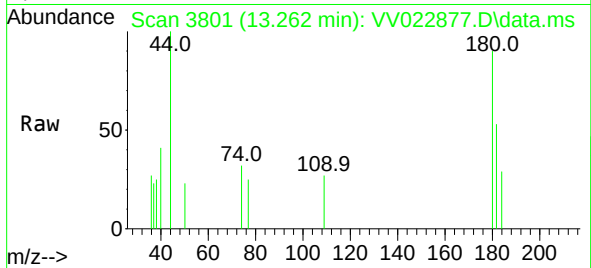




#70  
1,2,4-trichlorobenzene  
Concen: 0.075 ug/L  
RT: 13.262 min Scan# 3801  
Delta R.T. 0.000 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Instrument :  
MSVOA\_V  
ClientSampled :

Tgt Ion:180 Resp: 671  
Ion Ratio Lower Upper  
180 100  
182 89.7 76.0 114.0  
145 32.5 24.1 36.1



#71  
Naphthalene  
Concen: 0.077 ug/L  
RT: 13.516 min Scan# 3880  
Delta R.T. 0.013 min  
Lab File: VV022877.D  
Acq: 18 Oct 2021 19:27

Tgt Ion:128 Resp: 1093  
Ion Ratio Lower Upper  
128 100  
129 0.0 9.3 13.9#  
127 0.0 10.8 16.2#

