

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD050522\  
 Data File : VD072837.D  
 Acq On : 06 May 2022 05:35  
 Operator : VA/SY  
 Sample : N2680-10  
 Misc : 5.01G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B5-5-7

Quant Time: May 06 06:31:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 2022  
 Response via : Initial Calibration

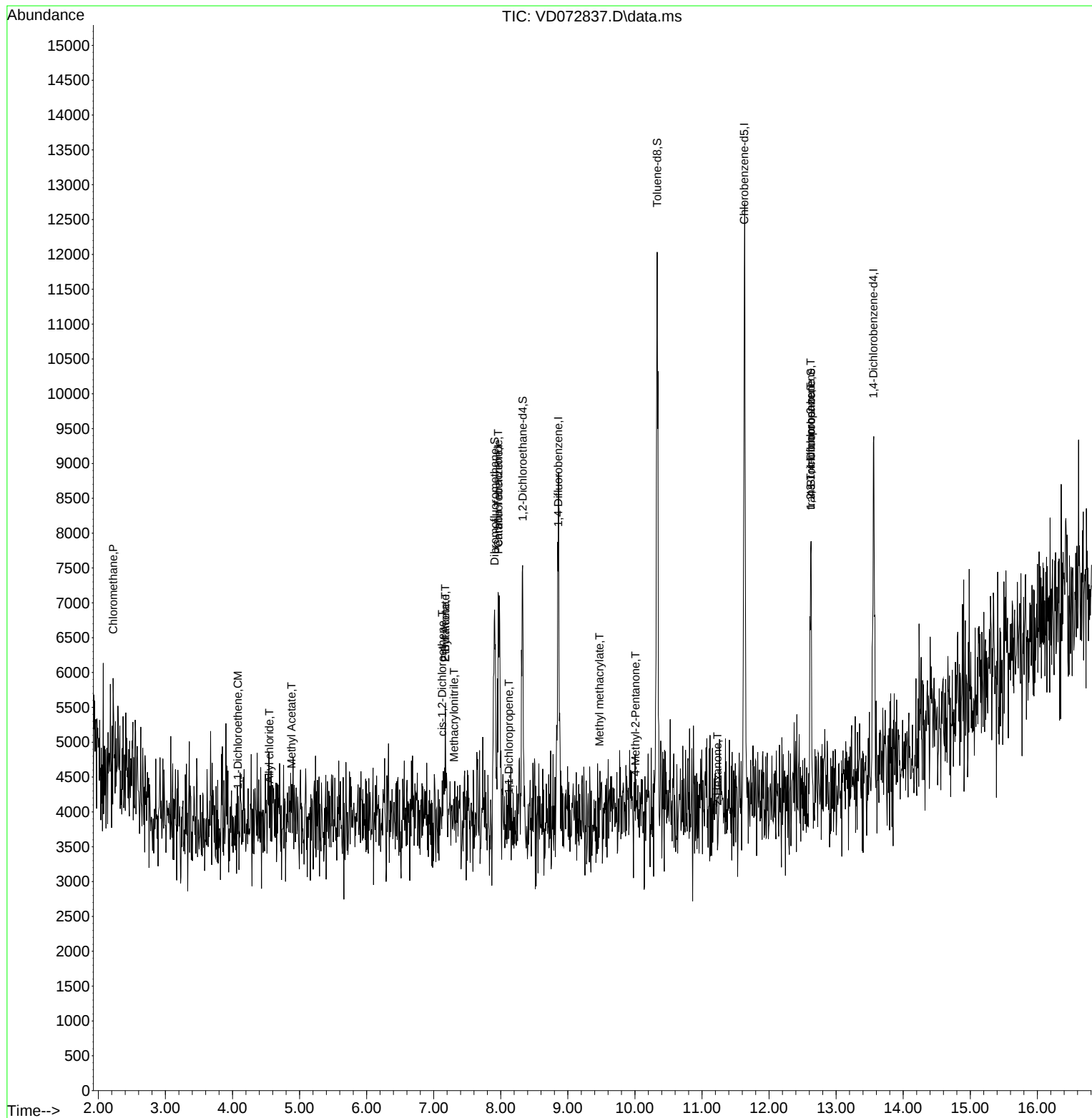
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.967          | 168  | 1632                 | 50.000    | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.855          | 114  | 4641                 | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.632         | 117  | 4620                 | 50.000    | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.555         | 152  | 1564                 | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 2532                 | 119.521   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 239.040%# |           |        |          |
| 35) Dibromofluoromethane      | 7.908          | 113  | 2321                 | 71.209    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 142.420%  |           |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 5425                 | 46.400    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 92.800%   |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 1537                 | 35.256    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 70.520%   |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        | Qvalue   |
| 3) Chloromethane              | 2.220          | 50   | 79                   | 3.368     | ug/l # | 40       |
| 12) 1,1-Dichloroethene        | 4.079          | 96   | 56                   | 2.846     | ug/l # | 1        |
| 14) Allyl chloride            | 4.550          | 41   | 57                   | 1.794     | ug/l # | 22       |
| 16) Acetone                   | 4.144          | 43   | 54                   | Below Cal | #      | 47       |
| 18) Methyl Acetate            | 4.879          | 43   | 58                   | 4.809     | ug/l # | 55       |
| 25) 2-Butanone                | 7.173          | 43   | 125                  | 20.251    | ug/l # | 52       |
| 27) cis-1,2-Dichloroethene    | 7.126          | 96   | 59                   | 2.282     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.120          | 75   | 65                   | 1.226     | ug/l # | 43       |
| 37) Ethyl Acetate             | 7.173          | 43   | 125                  | 5.131     | ug/l # | 72       |
| 38) Carbon Tetrachloride      | 7.961          | 117  | 175                  | 3.181     | ug/l # | 13       |
| 41) Methacrylonitrile         | 7.302          | 41   | 54                   | 3.722     | ug/l # | 27       |
| 48) Methyl methacrylate       | 9.473          | 41   | 70                   | 3.182     | ug/l # | 19       |
| 51) 4-Methyl-2-Pentanone      | 10.008         | 43   | 62                   | 2.653     | ug/l # | 39       |
| 59) 2-Hexanone                | 11.232         | 43   | 56                   | 3.562     | ug/l # | 27       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 893                  | 51.205    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 893                  | 117.751   | ug/l # | 7        |
| -----                         |                |      |                      |           |        |          |

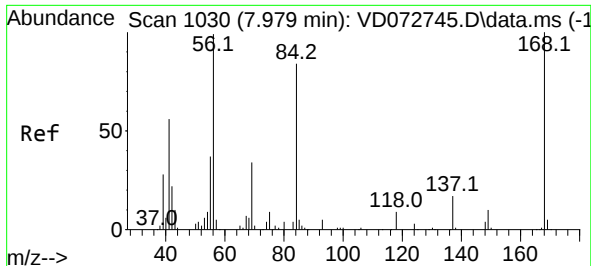
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :  
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Quant Time: May 06 06:31:13 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 03 08:33:49 2022  
Response via : Initial Calibration

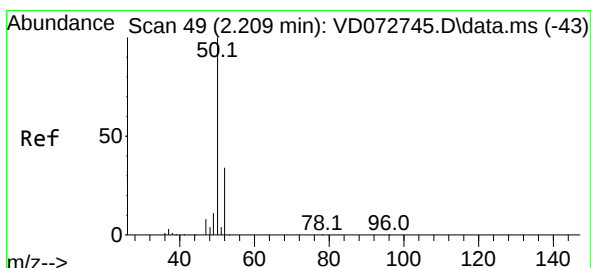
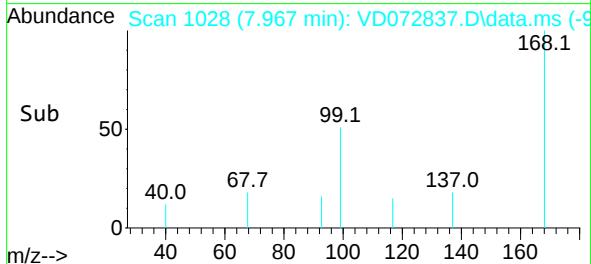
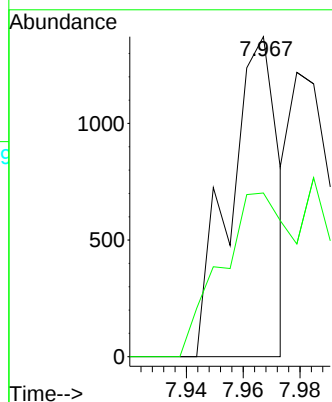
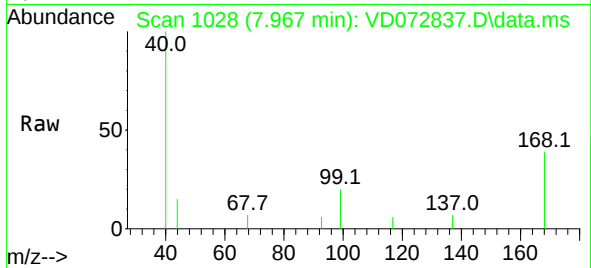




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.967 min Scan# 1030  
Delta R.T. -0.012 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

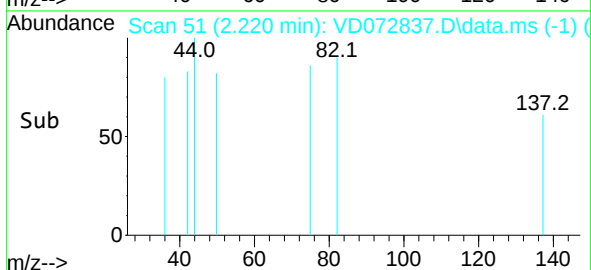
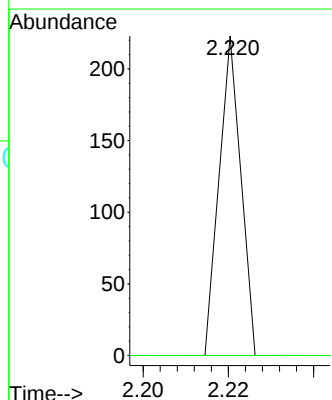
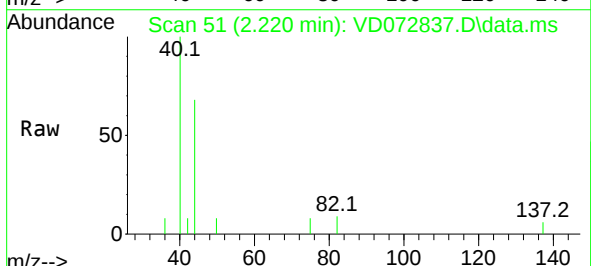
Instrument :  
MSVOA\_D  
ClientSampleId :  
B5-5-7

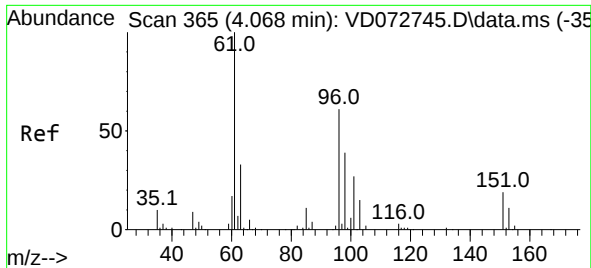
Tgt Ion:168 Resp: 1632  
Ion Ratio Lower Upper  
168 100  
99 51.2 49.8 74.6



#3  
Chloromethane  
Concen: 3.368 ug/l  
RT: 2.220 min Scan# 51  
Delta R.T. 0.011 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

Tgt Ion: 50 Resp: 79  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.4 41.0#

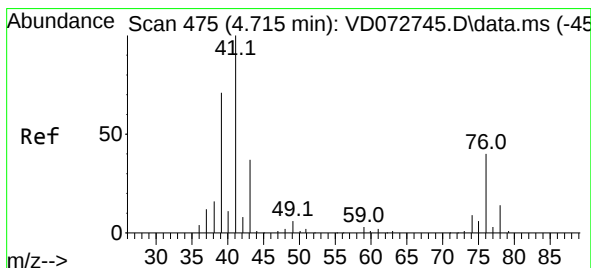
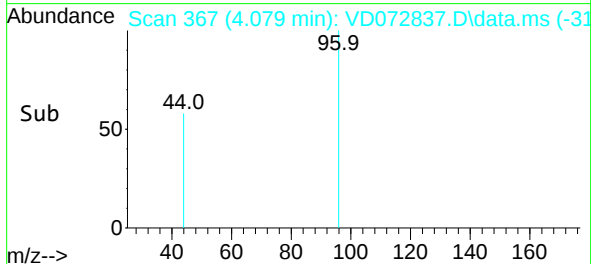
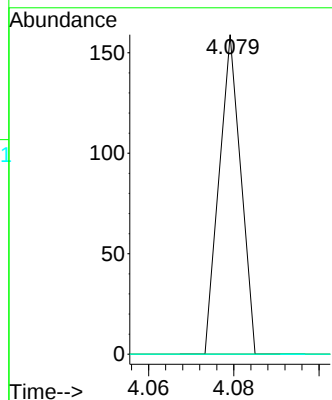
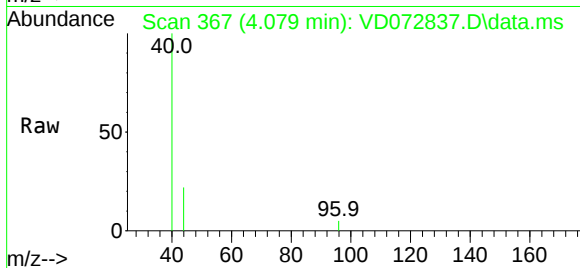




#12  
 1,1-Dichloroethene  
 Concen: 2.846 ug/l  
 RT: 4.079 min Scan# 30  
 Delta R.T. 0.011 min  
 Lab File: VD072837.D  
 Acq: 06 May 2022 05:35

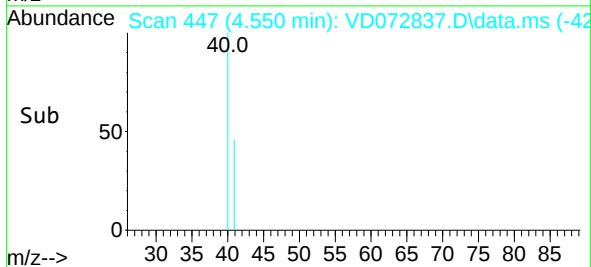
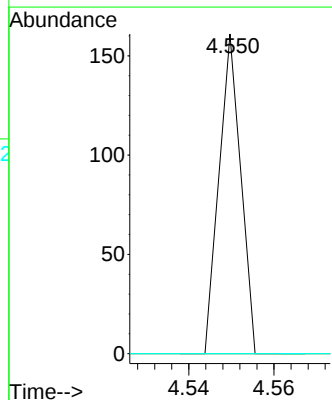
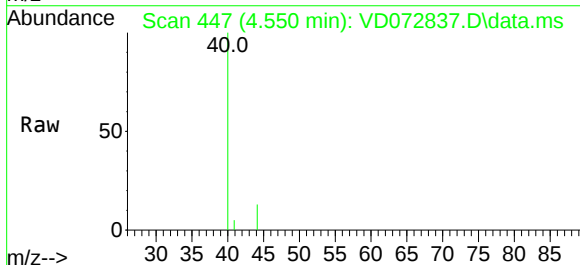
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B5-5-7

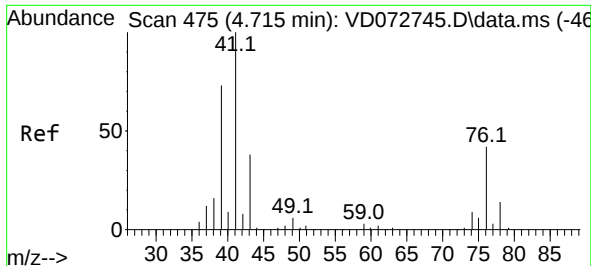
Tgt Ion: 96 Resp: 56  
 Ion Ratio Lower Upper  
 96 100  
 61 0.0 138.5 207.7#  
 98 0.0 48.6 73.0#



#14  
 Allyl chloride  
 Concen: 1.794 ug/l  
 RT: 4.550 min Scan# 447  
 Delta R.T. -0.165 min  
 Lab File: VD072837.D  
 Acq: 06 May 2022 05:35

Tgt Ion: 41 Resp: 57  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 59.3 88.9#  
 76 0.0 25.7 38.5#





#18

Methyl Acetate

Concen: 4.809 ug/l

RT: 4.879 min Scan# 503

Delta R.T. 0.164 min

Lab File: VD072837.D

Acq: 06 May 2022 05:35

Instrument :

MSVOA\_D

ClientSampleId :

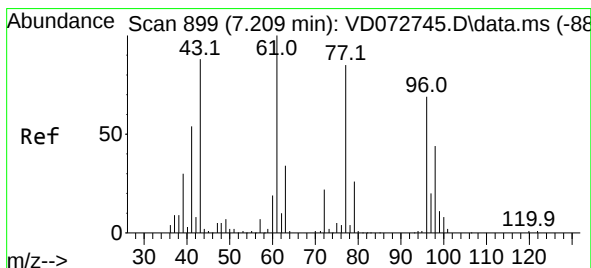
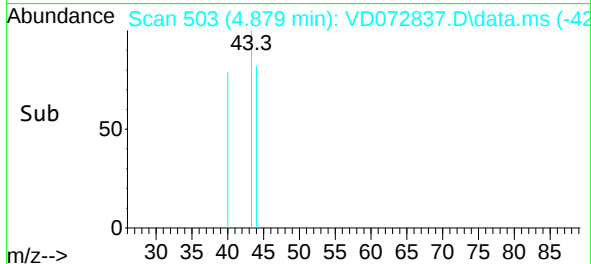
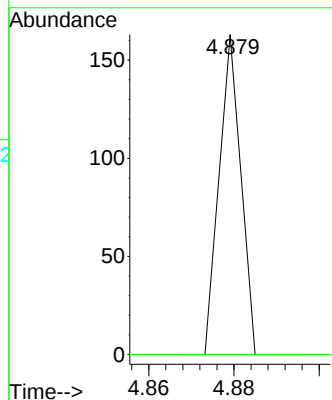
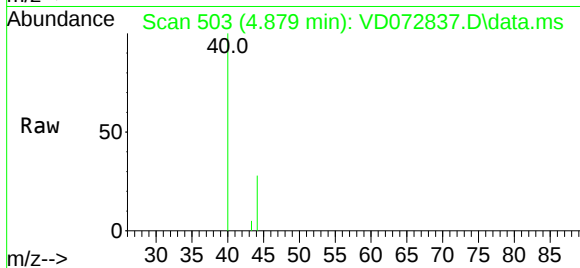
B5-5-7

Tgt Ion: 43 Resp: 58

Ion Ratio Lower Upper

43 100

74 0.0 16.7 25.1#



#25

2-Butanone

Concen: 20.251 ug/l

RT: 7.173 min Scan# 893

Delta R.T. -0.036 min

Lab File: VD072837.D

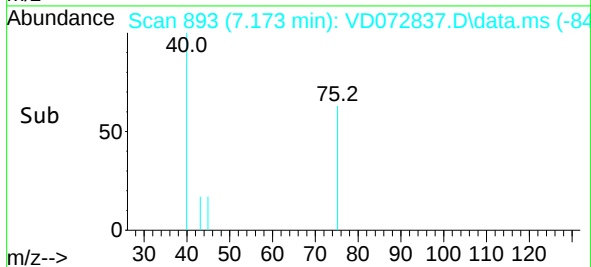
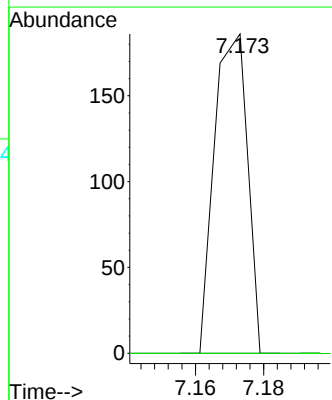
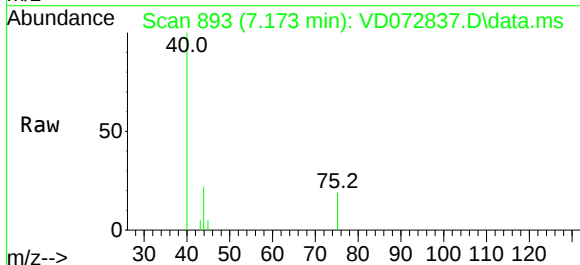
Acq: 06 May 2022 05:35

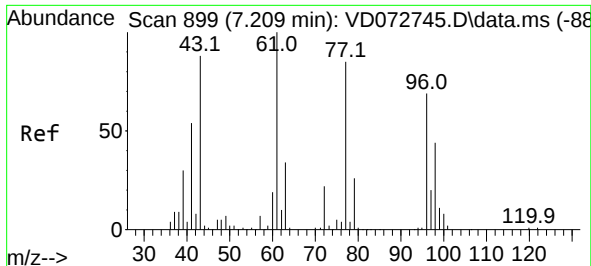
Tgt Ion: 43 Resp: 125

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#

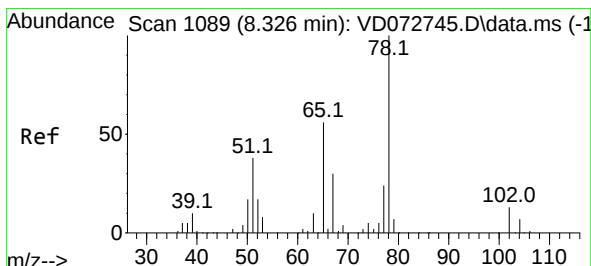
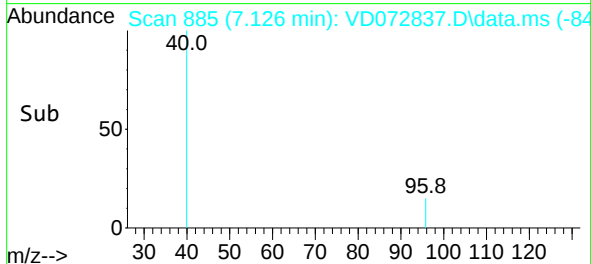
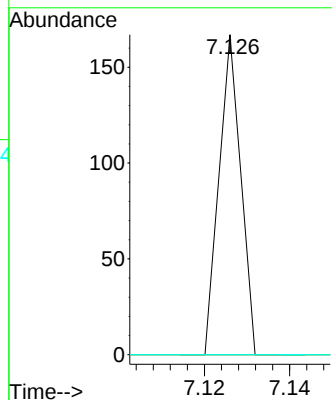
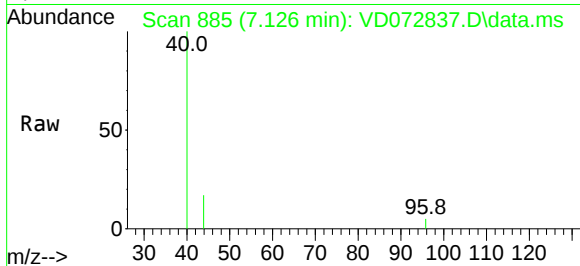




#27  
 cis-1,2-Dichloroethene  
 Concen: 2.282 ug/l  
 RT: 7.126 min Scan# 81  
 Delta R.T. -0.083 min  
 Lab File: VD072837.D  
 Acq: 06 May 2022 05:35

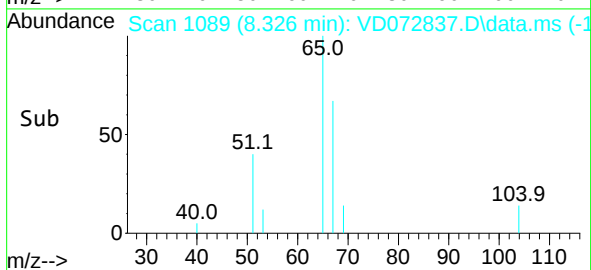
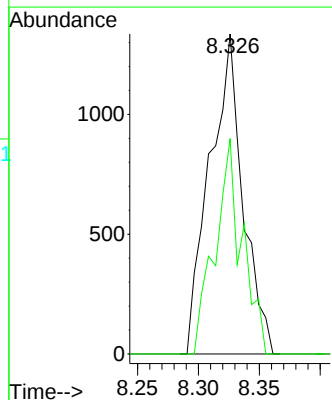
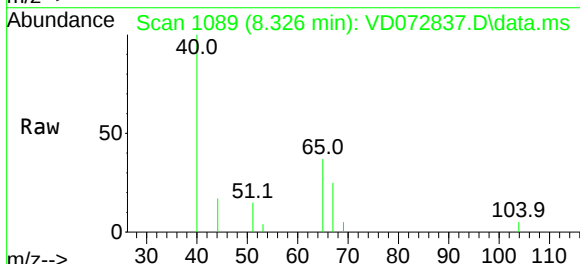
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B5-5-7

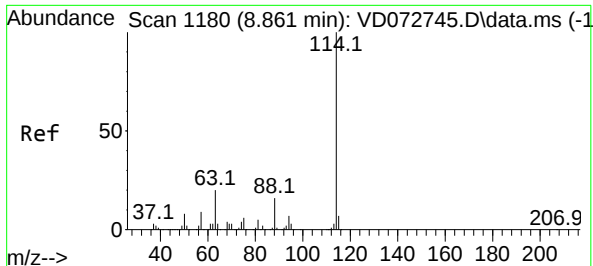
Tgt Ion: 96 Resp: 59  
 Ion Ratio Lower Upper  
 96 100  
 61 0.0 0.0 313.8  
 98 0.0 0.0 128.8



#33  
 1,2-Dichloroethane-d4  
 Concen: 119.521 ug/l  
 RT: 8.326 min Scan# 1089  
 Delta R.T. -0.000 min  
 Lab File: VD072837.D  
 Acq: 06 May 2022 05:35

Tgt Ion: 65 Resp: 2532  
 Ion Ratio Lower Upper  
 65 100  
 67 55.0 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD072837.D

Acq: 06 May 2022 05:35

Instrument :

MSVOA\_D

ClientSampleId :

B5-5-7

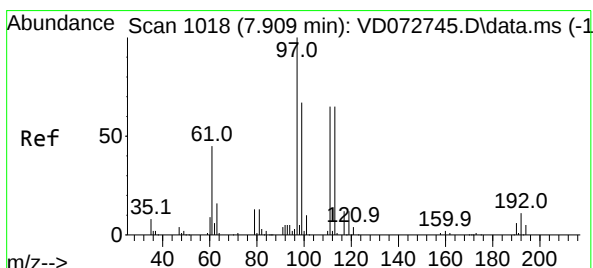
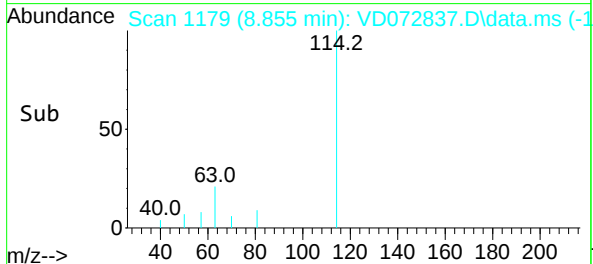
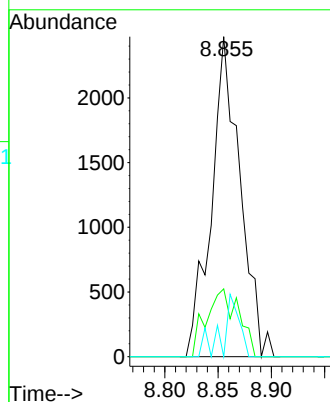
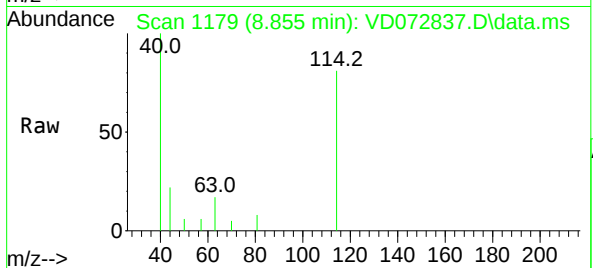
Tgt Ion:114 Resp: 4641

Ion Ratio Lower Upper

114 100

63 21.2 0.0 46.6

88 0.0 0.0 33.2



#35

Dibromofluoromethane

Concen: 71.209 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.001 min

Lab File: VD072837.D

Acq: 06 May 2022 05:35

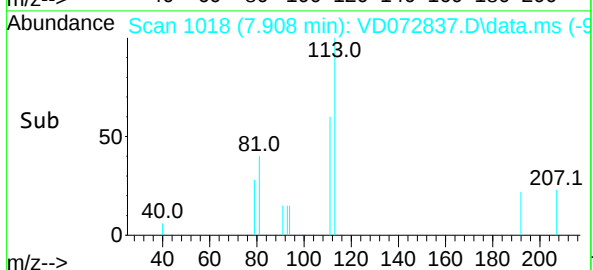
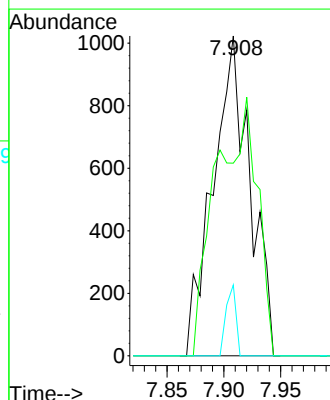
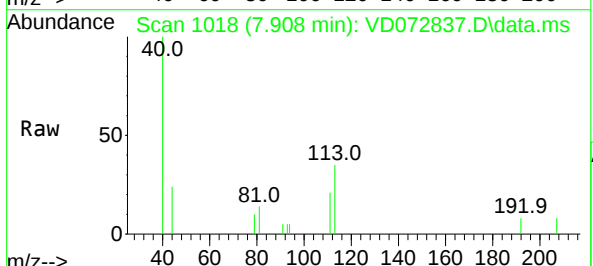
Tgt Ion:113 Resp: 2321

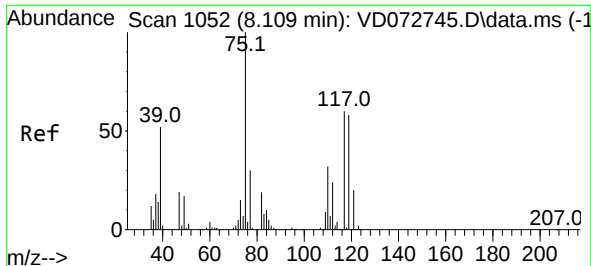
Ion Ratio Lower Upper

113 100

111 47.9 83.8 125.6#

192 5.9 14.6 21.8#





#36

1,1-Dichloropropene

Concen: 1.226 ug/l

RT: 8.120 min Scan# 1052

Delta R.T. 0.011 min

Lab File: VD072837.D

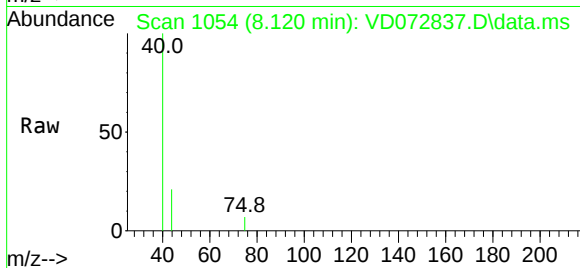
Acq: 06 May 2022 05:35

Instrument :

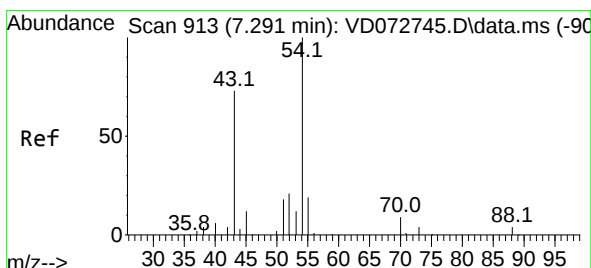
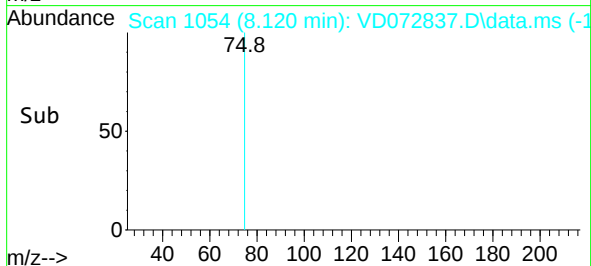
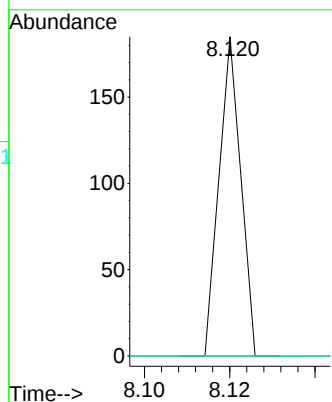
MSVOA\_D

ClientSampleId :

B5-5-7



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 65       |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 0.0 16.4 49.1# |
| 77          | 0.0 24.2 36.2# |



#37

Ethyl Acetate

Concen: 5.131 ug/l

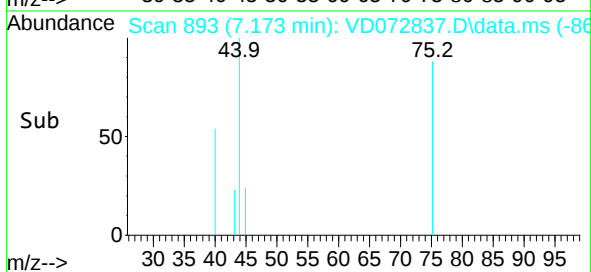
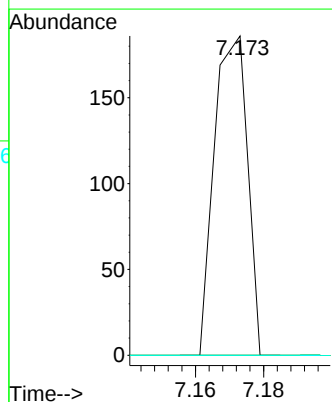
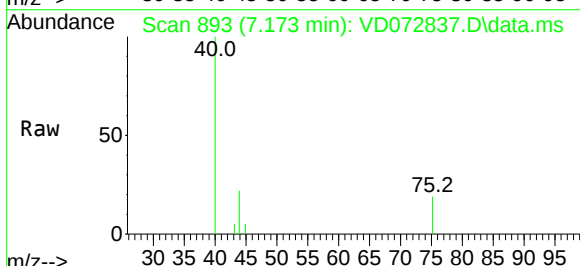
RT: 7.173 min Scan# 893

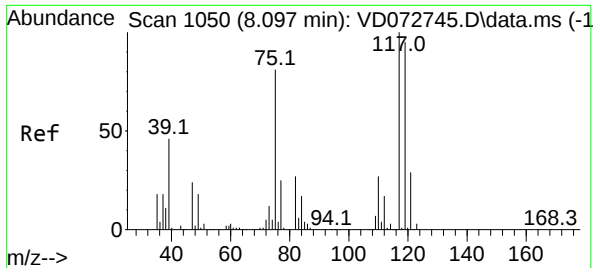
Delta R.T. -0.118 min

Lab File: VD072837.D

Acq: 06 May 2022 05:35

|             |               |
|-------------|---------------|
| Tgt Ion: 43 | Resp: 125     |
| Ion Ratio   | Lower Upper   |
| 43          | 100           |
| 61          | 0.0 9.8 14.8# |
| 70          | 0.0 6.9 10.3# |

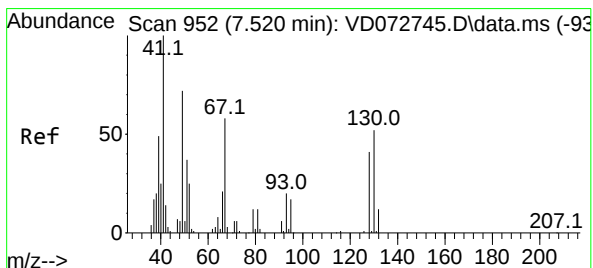
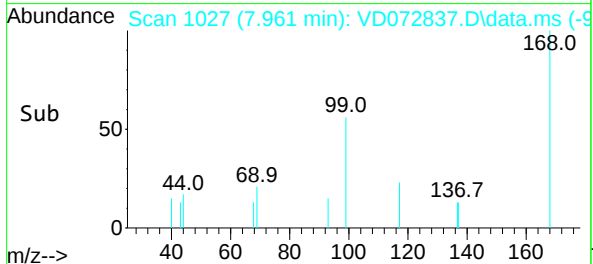
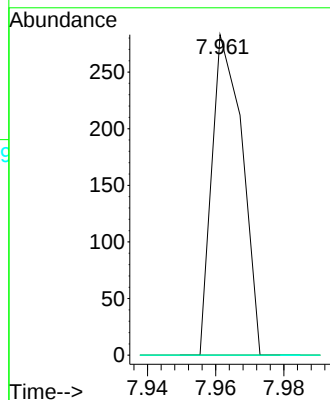
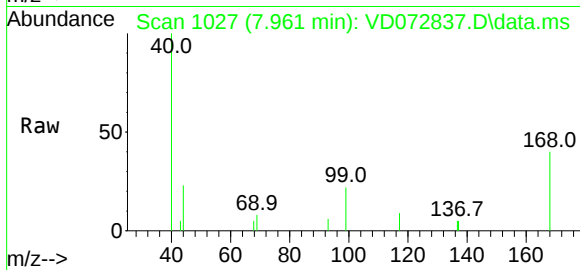




#38  
Carbon Tetrachloride  
Concen: 3.181 ug/l  
RT: 7.961 min Scan# 1050  
Delta R.T. -0.136 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

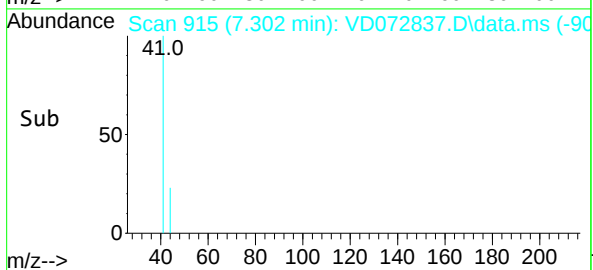
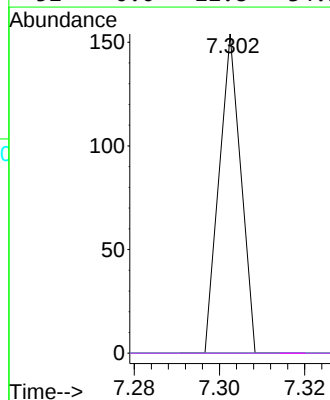
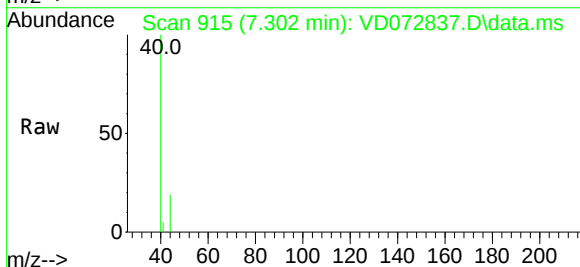
Instrument :  
MSVOA\_D  
ClientSampleId :  
B5-5-7

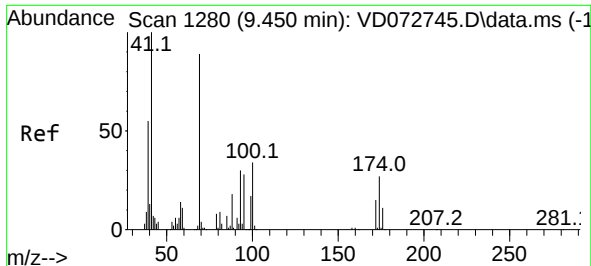
Tgt Ion:117 Resp: 175  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 24.5 36.7#



#41  
Methacrylonitrile  
Concen: 3.722 ug/l  
RT: 7.302 min Scan# 915  
Delta R.T. -0.218 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

Tgt Ion: 41 Resp: 54  
Ion Ratio Lower Upper  
41 100  
39 0.0 44.6 67.0#  
67 0.0 48.2 72.4#  
52 0.0 22.8 34.2#

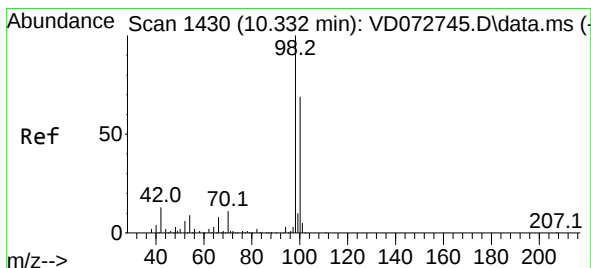
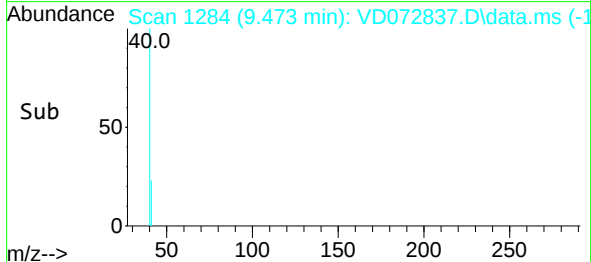
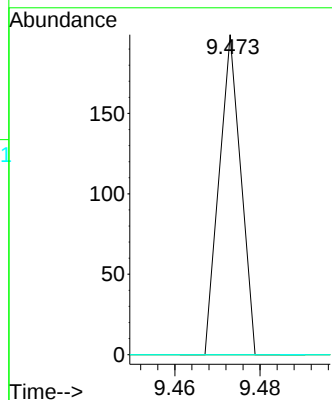
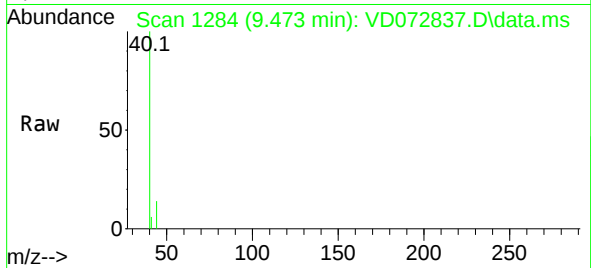




#48  
Methyl methacrylate  
Concen: 3.182 ug/l  
RT: 9.473 min Scan# 11  
Delta R.T. 0.023 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

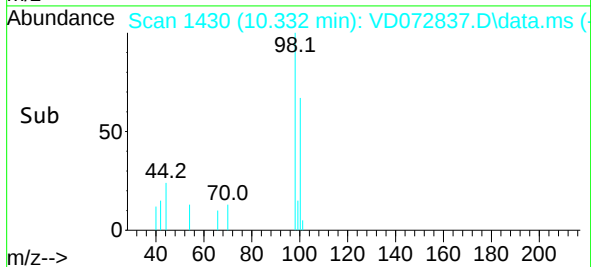
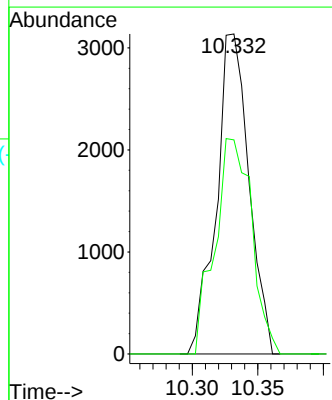
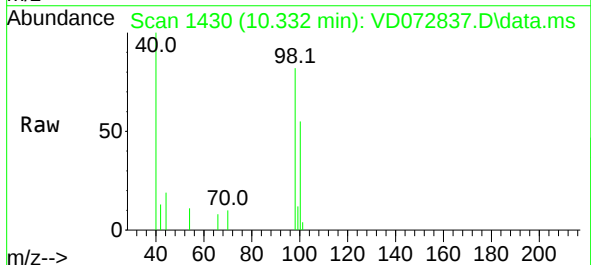
Instrument :  
MSVOA\_D  
ClientSampleId :  
B5-5-7

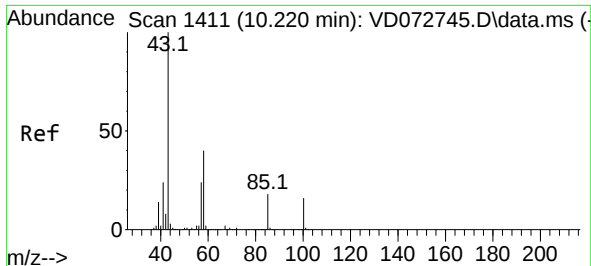
Tgt Ion: 41 Resp: 70  
Ion Ratio Lower Upper  
41 100  
69 0.0 56.7 85.1#  
39 0.0 42.7 64.1#



#50  
Toluene-d8  
Concen: 46.400 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

Tgt Ion: 98 Resp: 5425  
Ion Ratio Lower Upper  
98 100  
100 76.0 52.4 78.6

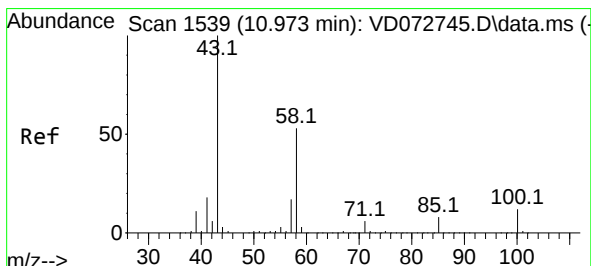
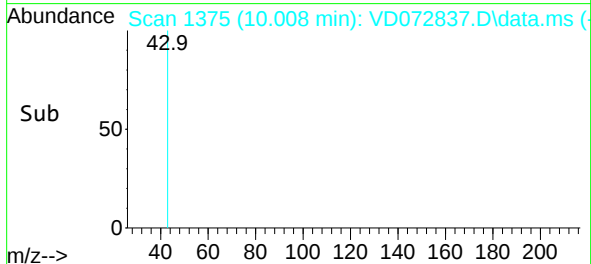
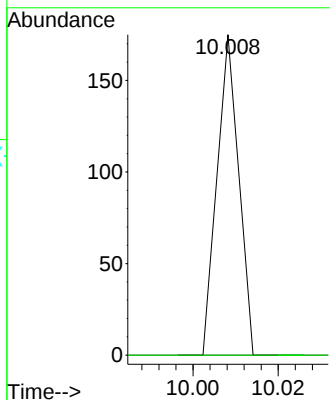
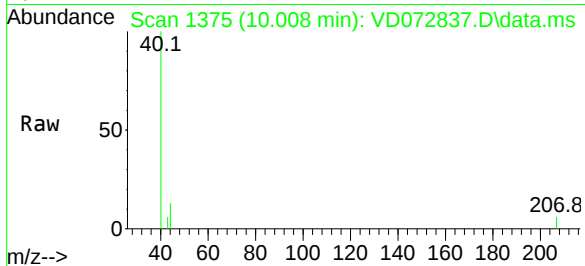




#51  
4-Methyl-2-Pentanone  
Concen: 2.653 ug/l  
RT: 10.008 min Scan# 11  
Delta R.T. -0.212 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

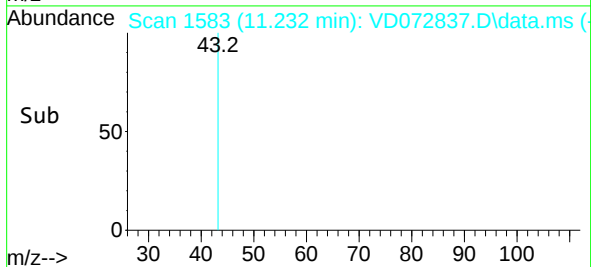
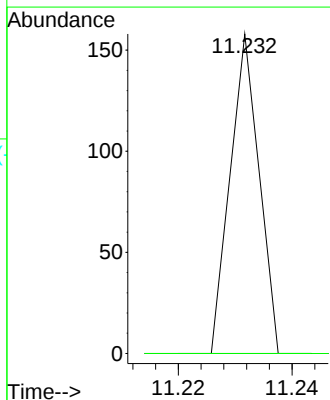
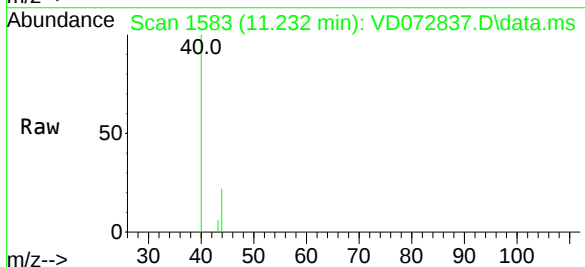
Instrument :  
MSVOA\_D  
ClientSampleId :  
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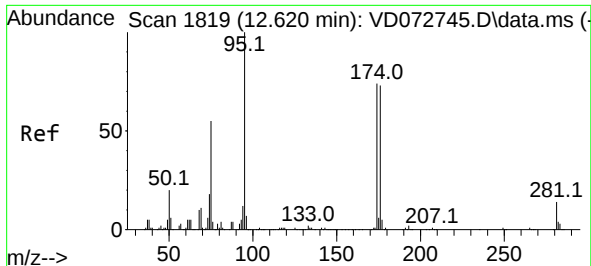
Tgt Ion: 43 Resp: 62  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 43.0#



#59  
2-Hexanone  
Concen: 3.562 ug/l  
RT: 11.232 min Scan# 1583  
Delta R.T. 0.259 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

Tgt Ion: 43 Resp: 56  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.3 75.9#

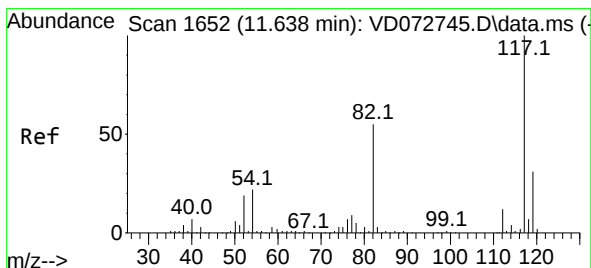
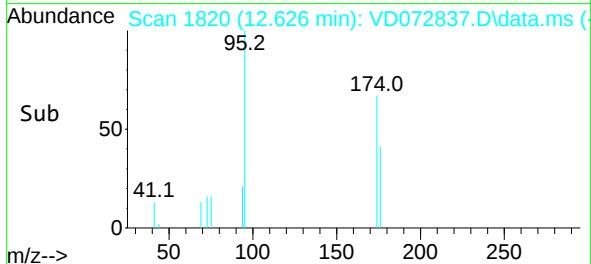
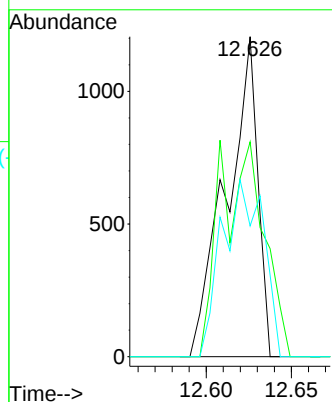
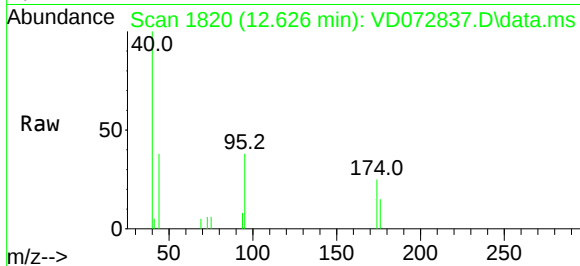




#62  
4-Bromofluorobenzene  
Concen: 35.256 ug/l  
RT: 12.626 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

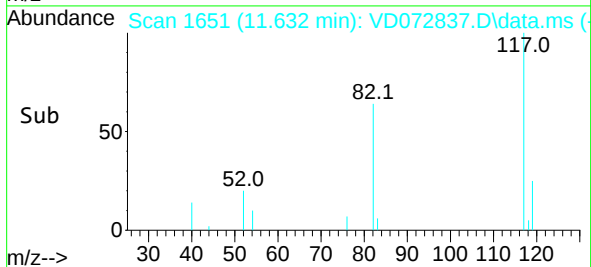
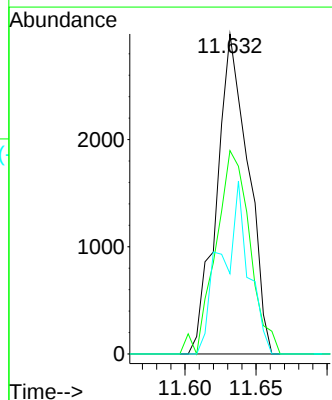
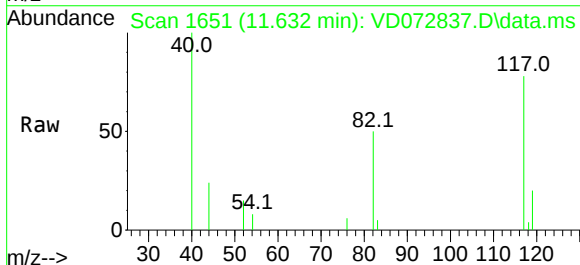
Instrument :  
MSVOA\_D  
ClientSampleId :  
B5-5-7

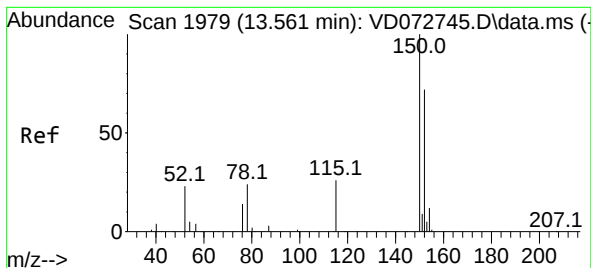
Tgt Ion: 95 Resp: 1537  
Ion Ratio Lower Upper  
95 100  
174 93.4 0.0 152.8  
176 72.7 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. -0.006 min  
Lab File: VD072837.D  
Acq: 06 May 2022 05:35

Tgt Ion: 117 Resp: 4620  
Ion Ratio Lower Upper  
117 100  
82 63.6 45.3 67.9  
119 25.1 26.6 40.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.555 min Scan# 1819

Delta R.T. -0.006 min

Lab File: VD072837.D

Acq: 06 May 2022 05:35

Instrument :

MSVOA\_D

ClientSampleId :

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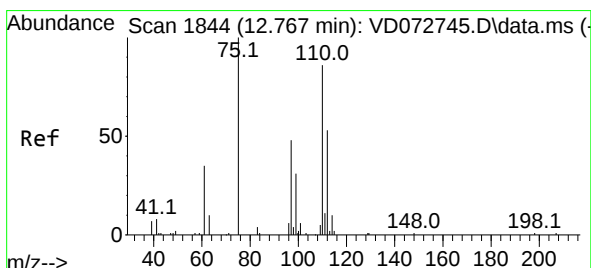
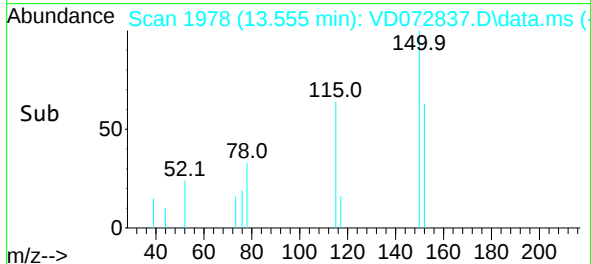
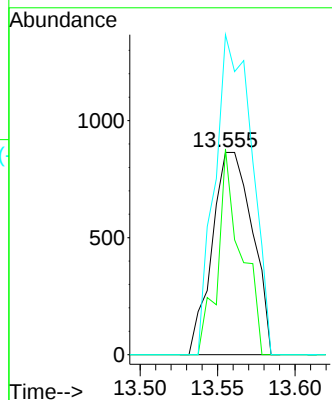
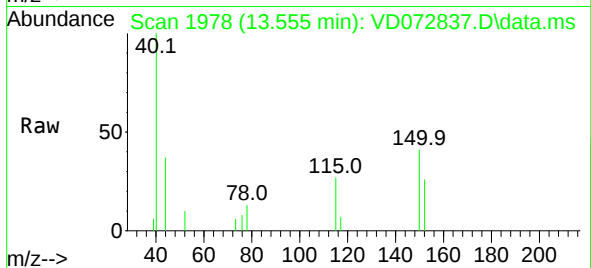
Tgt Ion:152 Resp: 1564

Ion Ratio Lower Upper

152 100

115 58.9 31.3 93.8

150 144.9 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 51.205 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.147 min

Lab File: VD072837.D

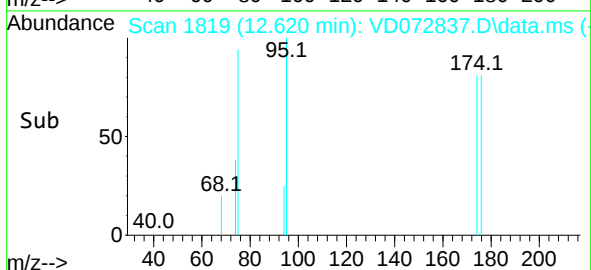
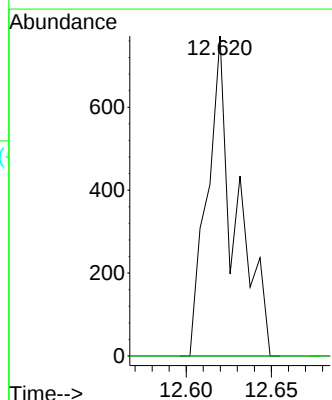
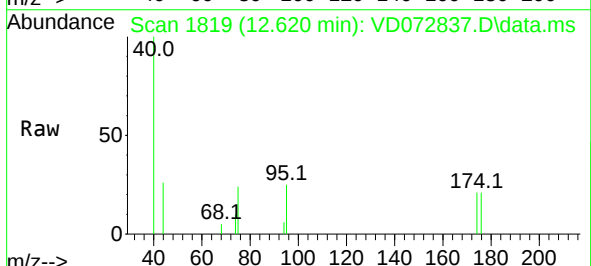
Acq: 06 May 2022 05:35

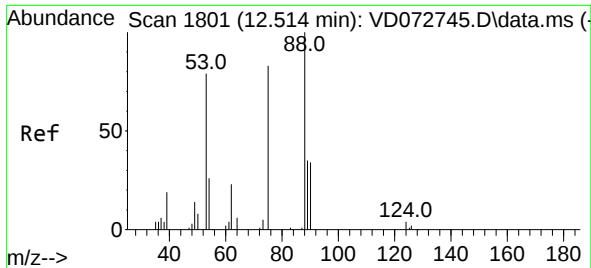
Tgt Ion: 75 Resp: 893

Ion Ratio Lower Upper

75 100

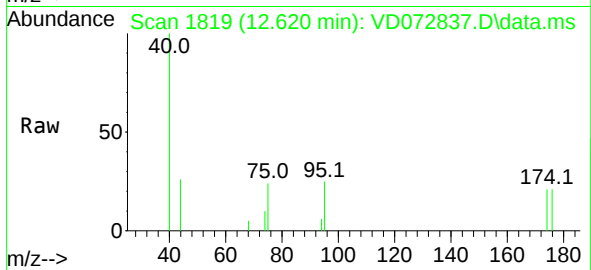
77 0.0 0.0 0.0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 117.751 ug/l  
 RT: 12.620 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD072837.D  
 Acq: 06 May 2022 05:35

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B5-5-7



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 893    |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 86.5  | 129.7# |
| 89       | 0.0   | 33.9  | 50.9#  |

