

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD113021\  
 Data File : VD071088.D  
 Acq On : 30 Nov 2021 17:37  
 Operator : VA/SY  
 Sample : M4867-04  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW9-GW-918-920

Quant Time: Dec 01 03:34:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

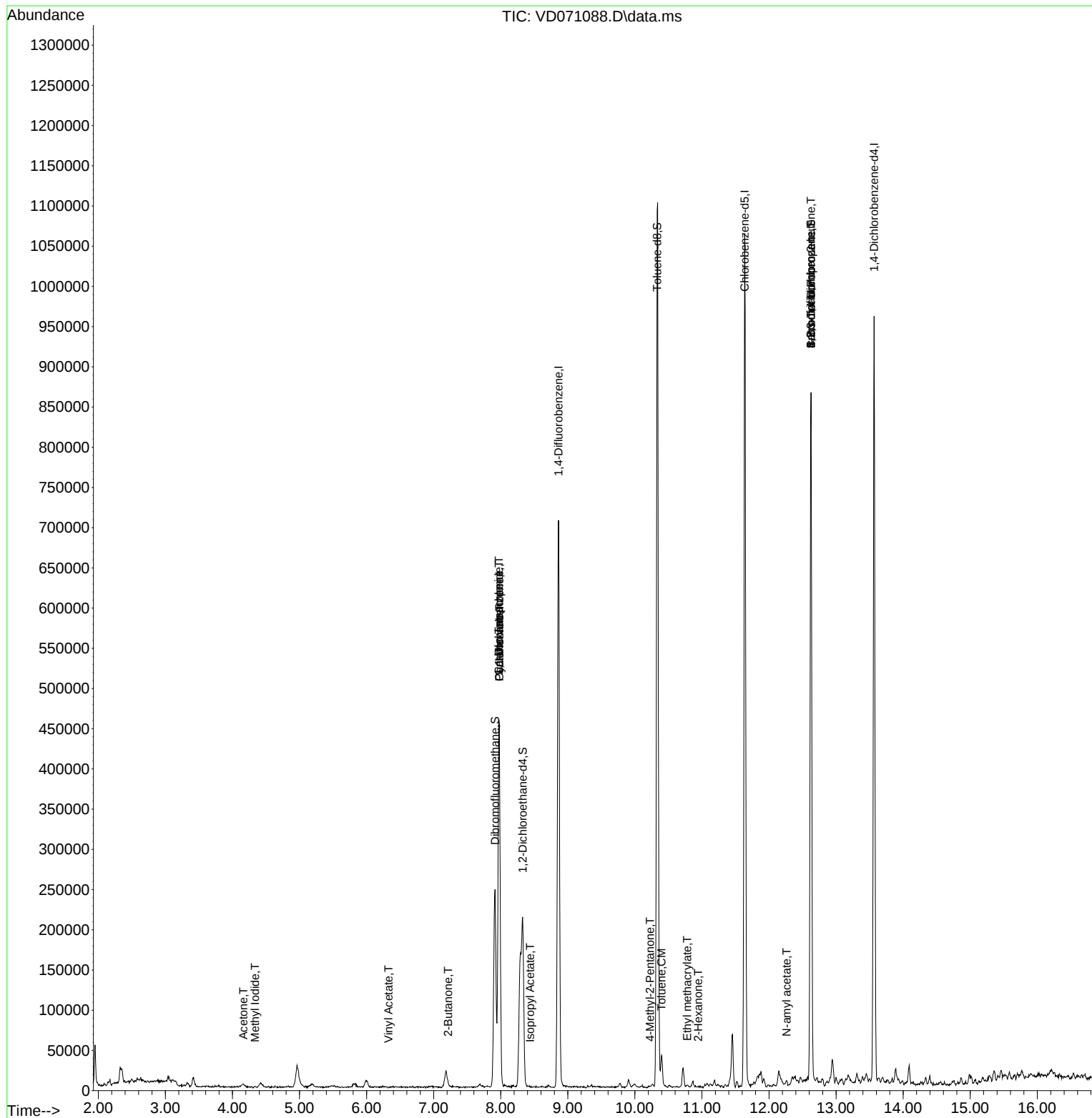
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 325383     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 582153     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 547061     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 234699     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 152099     | 39.837    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 79.680%   |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 173669     | 46.848    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 93.700%   |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 728852     | 51.665    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 103.320%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 253151     | 51.768    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 103.540%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 10) Methyl Iodide             | 4.338          | 142  | 66         | 4.576     | ug/l # | 40       |
| 11) Tert butyl alcohol        | 5.185          | 59   | 4706       | Below Cal | #      | 71       |
| 16) Acetone                   | 4.162          | 43   | 7564       | 37.338    | ug/l # | 81       |
| 23) Vinyl Acetate             | 6.326          | 43   | 68         | 27.228    | ug/l # | 72       |
| 25) 2-Butanone                | 7.214          | 43   | 1200       | 29.268    | ug/l # | 45       |
| 31) Cyclohexane               | 7.979          | 56   | 9605       | 1.479     | ug/l # | 9        |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 30906      | 5.680     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 33757      | 6.294     | ug/l # | 16       |
| 41) Methacrylonitrile         | 7.503          | 41   | 117        | Below Cal | #      | 12       |
| 43) Isopropyl Acetate         | 8.438          | 43   | 171        | 5.253     | ug/l # | 47       |
| 51) 4-Methyl-2-Pentanone      | 10.226         | 43   | 1667       | 31.204    | ug/l # | 34       |
| 52) Toluene                   | 10.397         | 92   | 14095      | 1.503     | ug/l   | 89       |
| 56) Ethyl methacrylate        | 10.779         | 69   | 81         | 5.989     | ug/l # | 1        |
| 59) 2-Hexanone                | 10.944         | 43   | 745        | 34.895    | ug/l # | 22       |
| 71) Bromoform                 | 12.626         | 173  | 2024       | 1.054     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.261         | 43   | 2086       | 6.098     | ug/l # | 55       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 139907     | 62.567    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 139907     | 135.215   | ug/l # | 18       |
| -----                         |                |      |            |           |        |          |

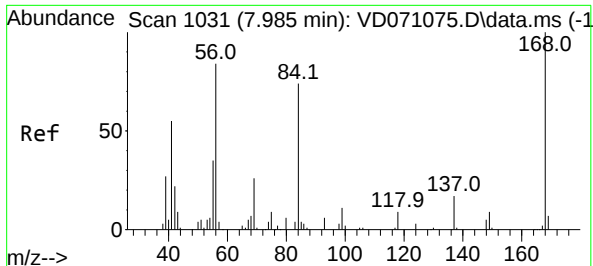
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M4867-04  
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MSVOA\_D  
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BP-VPB-RW9-GW-918-920

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Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
Response via : Initial Calibration

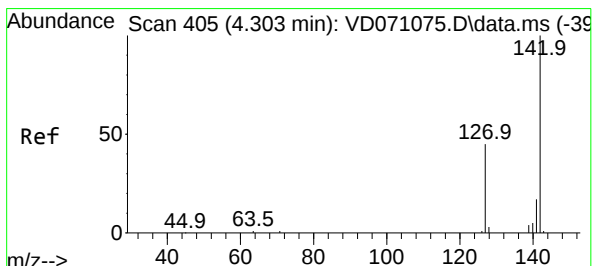
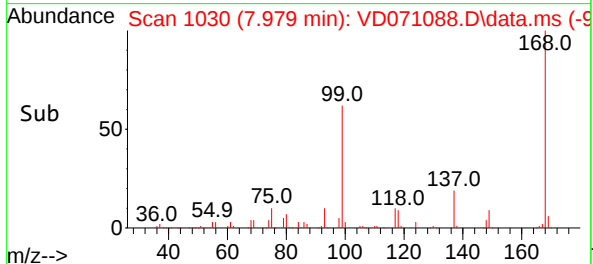
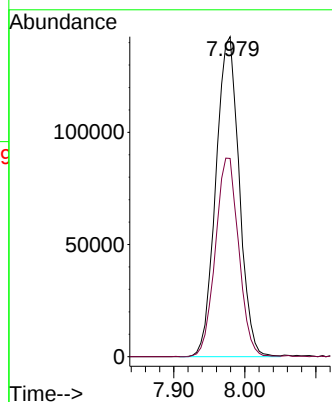
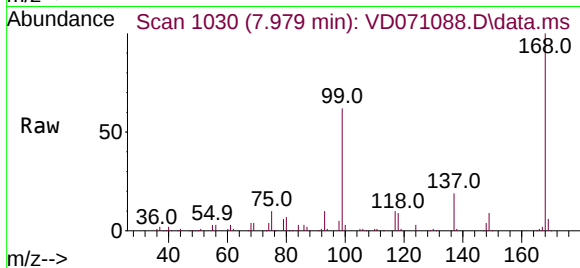




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

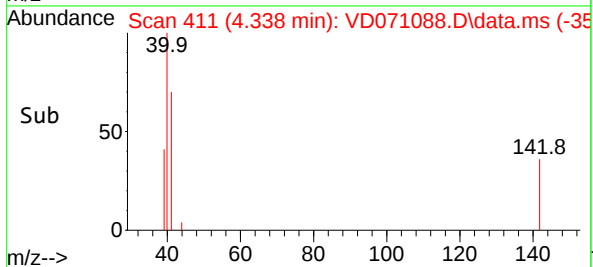
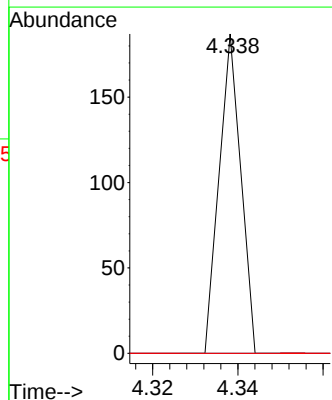
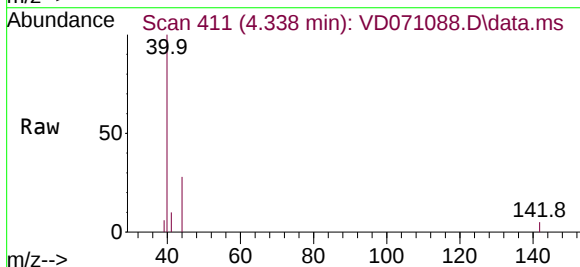
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

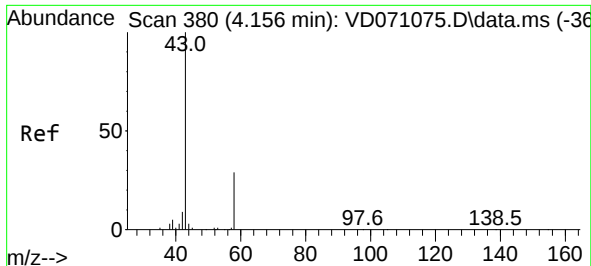
Tgt Ion:168 Resp: 325383  
Ion Ratio Lower Upper  
168 100  
99 62.0 46.6 69.8



#10  
Methyl Iodide  
Concen: 4.576 ug/l  
RT: 4.338 min Scan# 411  
Delta R.T. 0.035 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion:142 Resp: 66  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.4#  
141 0.0 12.0 18.0#

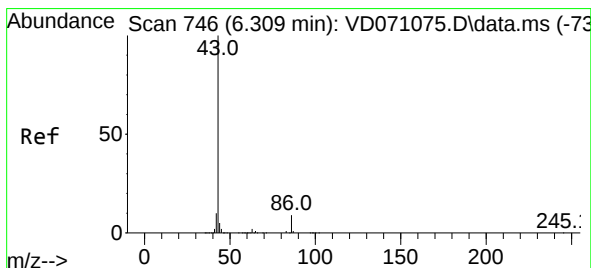
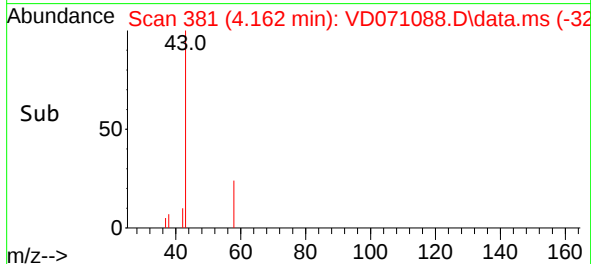
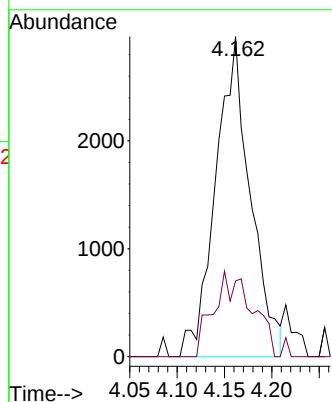
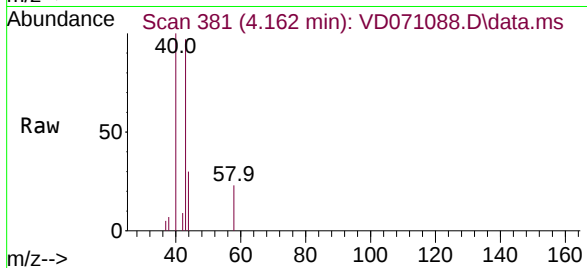




#16  
Acetone  
Concen: 37.338 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

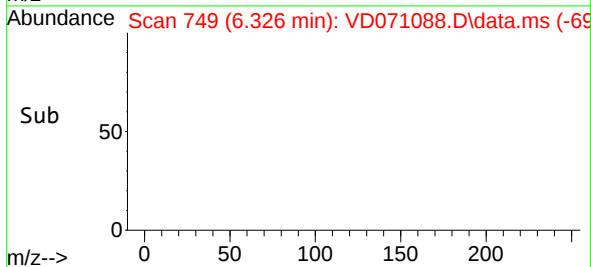
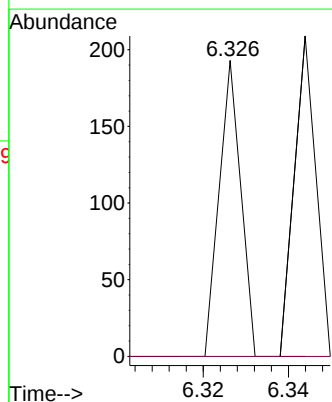
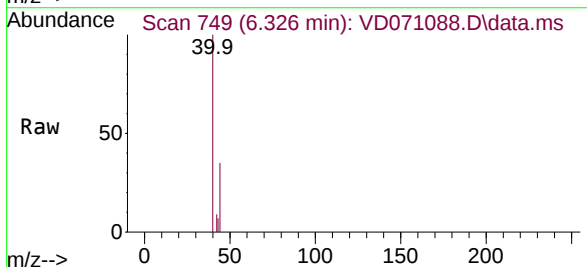
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

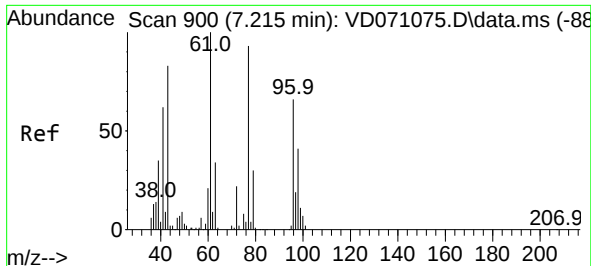
Tgt Ion: 43 Resp: 7564  
Ion Ratio Lower Upper  
43 100  
58 23.6 27.8 41.8#



#23  
Vinyl Acetate  
Concen: 27.228 ug/l  
RT: 6.326 min Scan# 749  
Delta R.T. 0.017 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion: 43 Resp: 68  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.2 12.4#

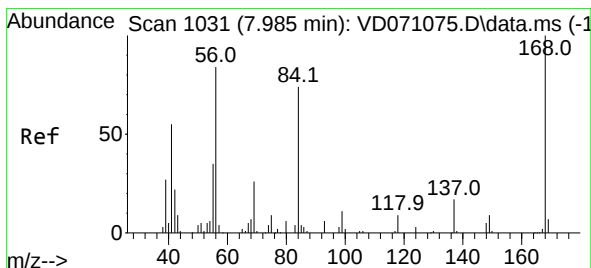
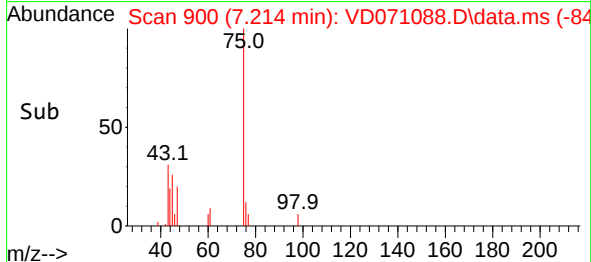
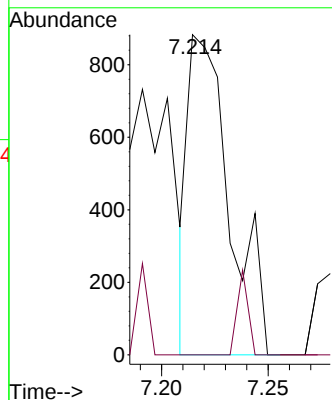
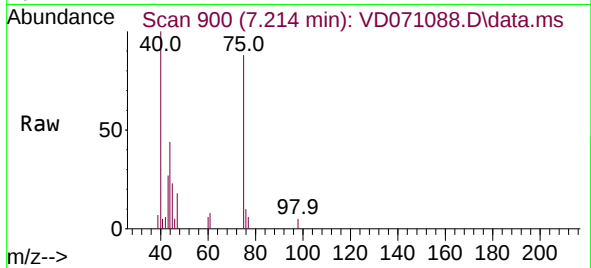




#25  
2-Butanone  
Concen: 29.268 ug/l  
RT: 7.214 min Scan# 90  
Delta R.T. -0.001 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

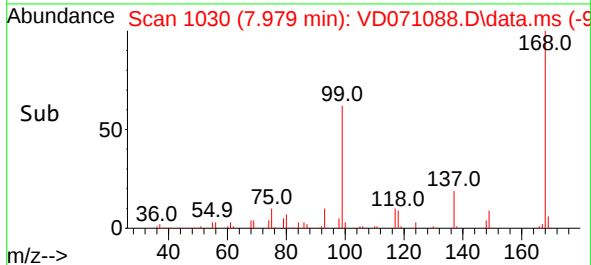
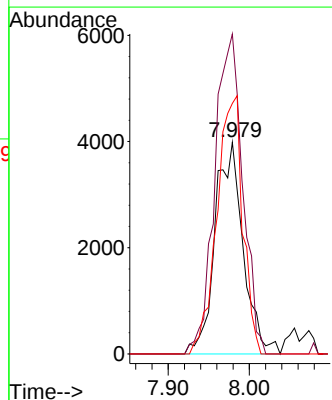
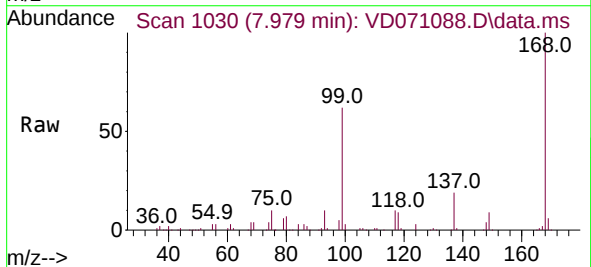
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

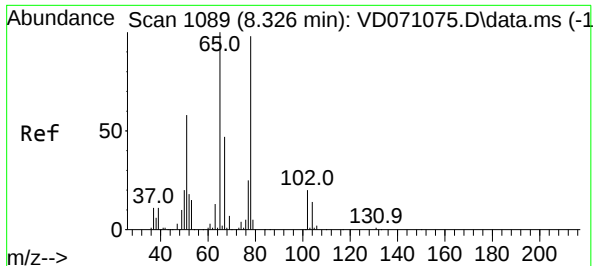
Tgt Ion: 43 Resp: 1200  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.8 35.6#



#31  
Cyclohexane  
Concen: 1.479 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion: 56 Resp: 9605  
Ion Ratio Lower Upper  
56 100  
69 151.1 25.9 38.9#  
84 118.3 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 39.837 ug/l

RT: 8.326 min Scan# 1108

Delta R.T. 0.000 min

Lab File: VD071088.D

Acq: 30 Nov 2021 17:37

Instrument :

MSVOA\_D

ClientSampleId :

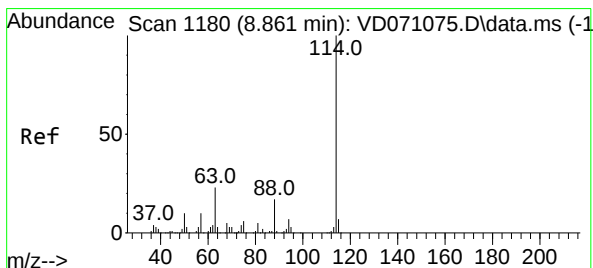
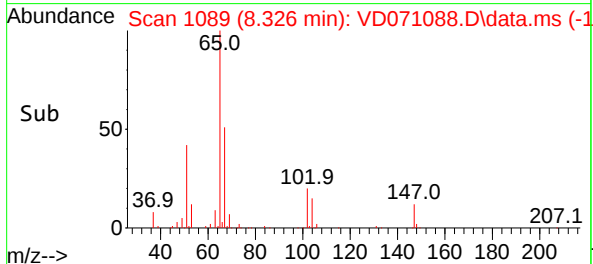
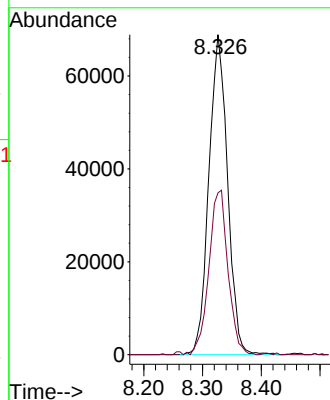
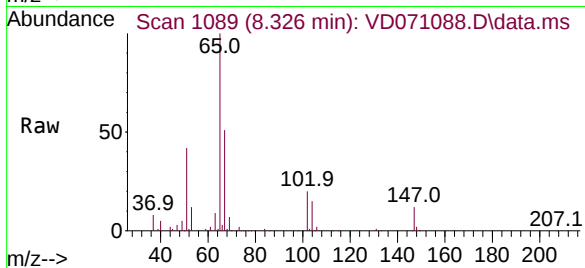
BP-VPB-RW9-GW-918-920

Tgt Ion: 65 Resp: 152099

Ion Ratio Lower Upper

65 100

67 52.6 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071088.D

Acq: 30 Nov 2021 17:37

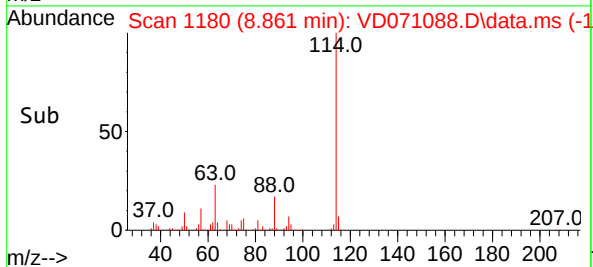
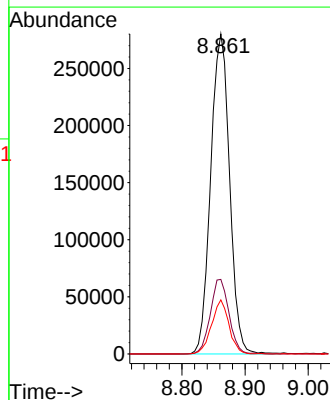
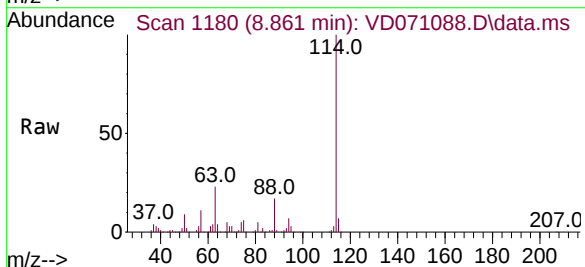
Tgt Ion: 114 Resp: 582153

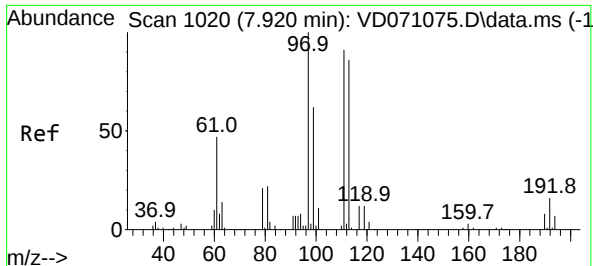
Ion Ratio Lower Upper

114 100

63 23.3 0.0 41.8

88 16.9 0.0 32.8





#35

Dibromofluoromethane

Concen: 46.848 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071088.D

Acq: 30 Nov 2021 17:37

Instrument :

MSVOA\_D

ClientSampleId :

BP-VPB-RW9-GW-918-920

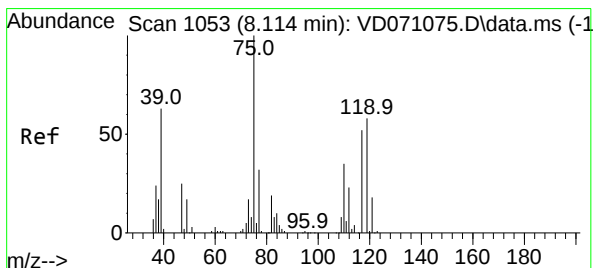
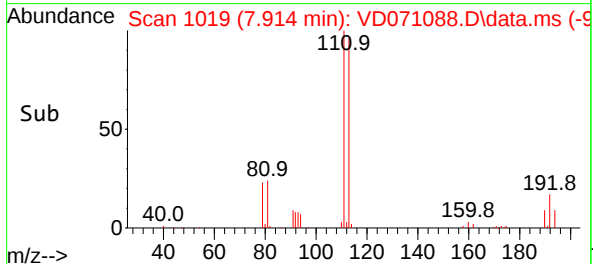
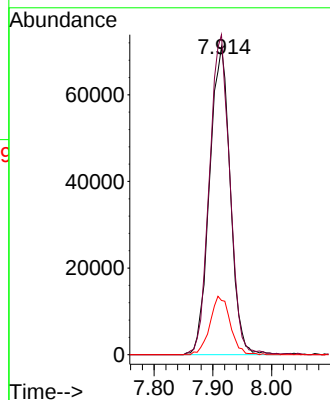
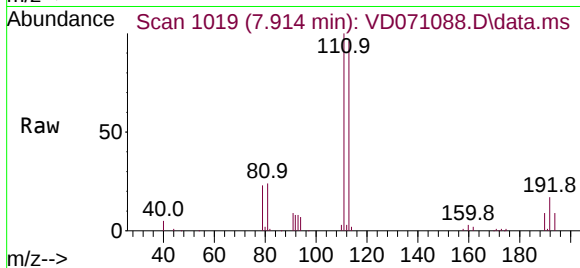
Tgt Ion:113 Resp: 173669

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

192 18.5 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.680 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071088.D

Acq: 30 Nov 2021 17:37

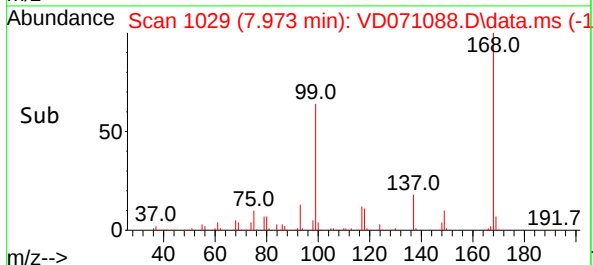
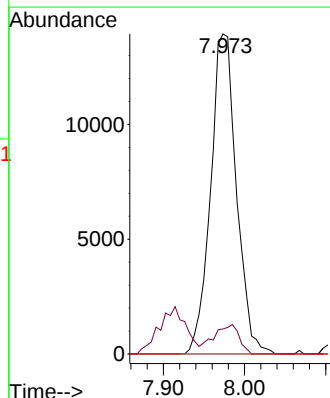
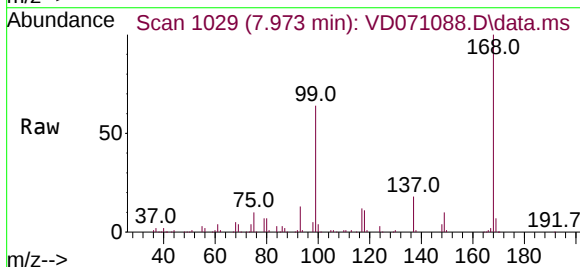
Tgt Ion: 75 Resp: 30906

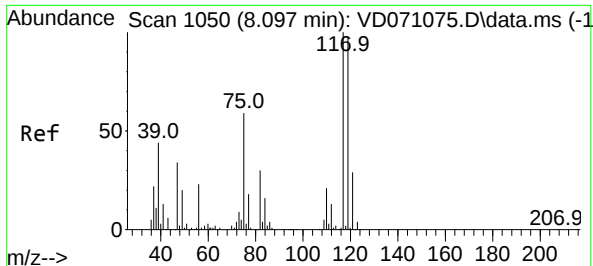
Ion Ratio Lower Upper

75 100

110 9.1 17.8 53.4#

77 0.0 24.8 37.2#

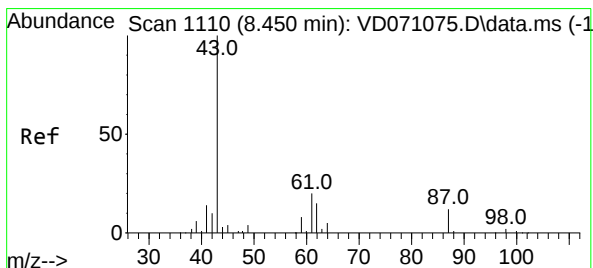
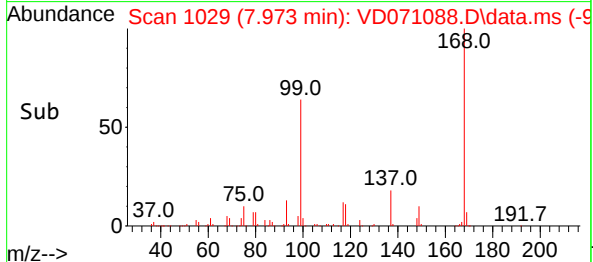
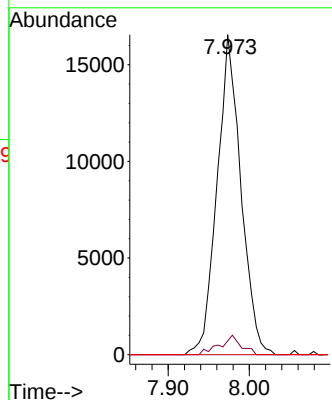
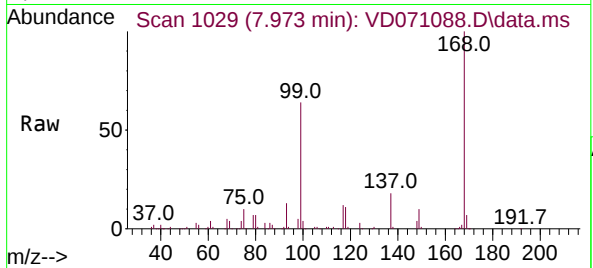




#38  
Carbon Tetrachloride  
Concen: 6.294 ug/l  
RT: 7.973 min Scan# 1108  
Delta R.T. -0.124 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

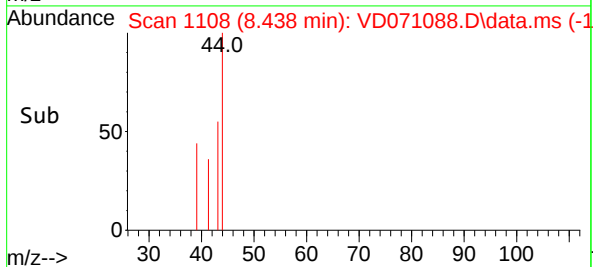
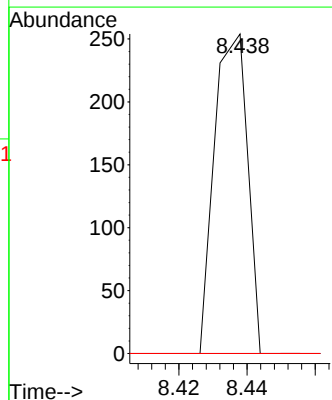
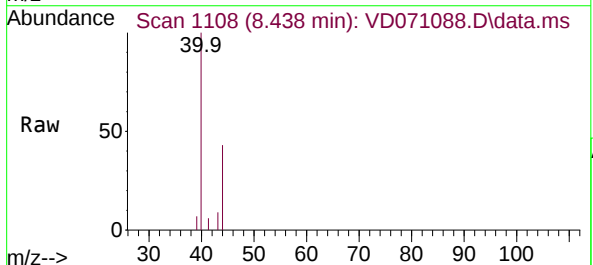
Instrument : MSVOA\_D  
ClientSampleId : BP-VPB-RW9-GW-918-920

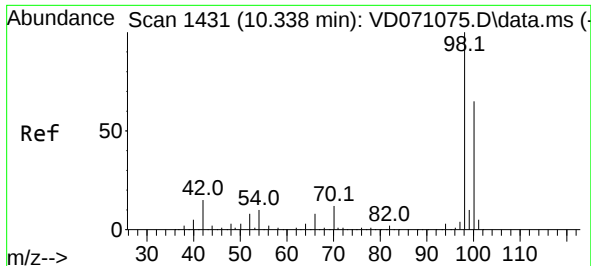
Tgt Ion:117 Resp: 33757  
Ion Ratio Lower Upper  
117 100  
119 4.3 75.8 113.6#  
121 0.0 23.6 35.4#



#43  
Isopropyl Acetate  
Concen: 5.253 ug/l  
RT: 8.438 min Scan# 1108  
Delta R.T. -0.012 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion: 43 Resp: 171  
Ion Ratio Lower Upper  
43 100  
61 0.0 28.2 42.4#  
87 0.0 10.7 16.1#

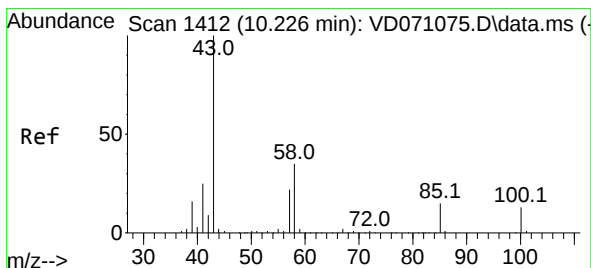
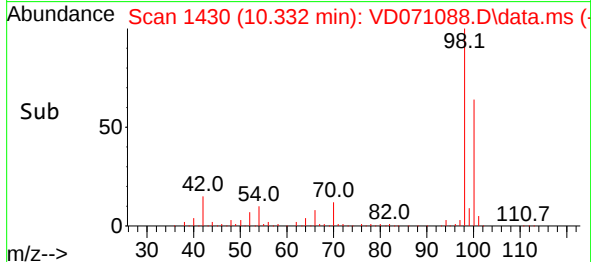
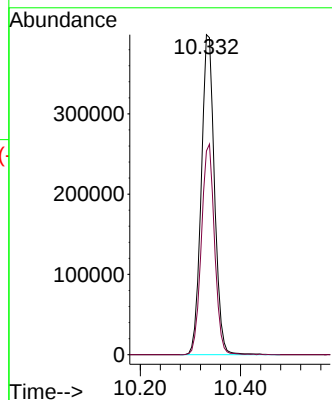
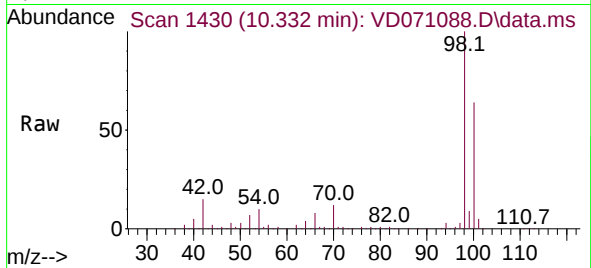




#50  
Toluene-d8  
Concen: 51.665 ug/l  
RT: 10.332 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

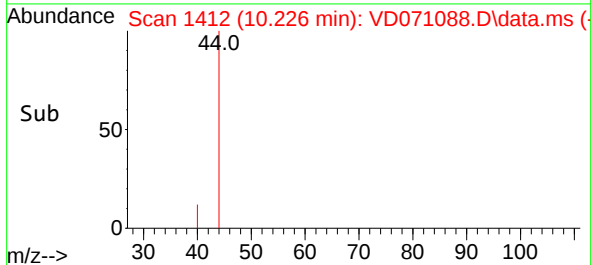
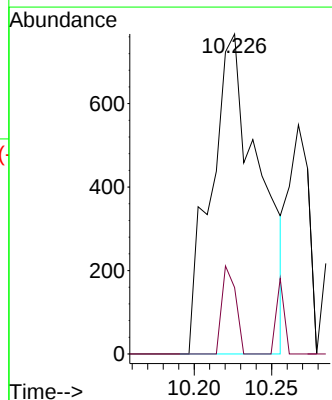
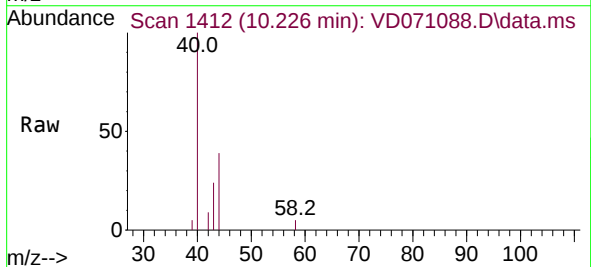
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

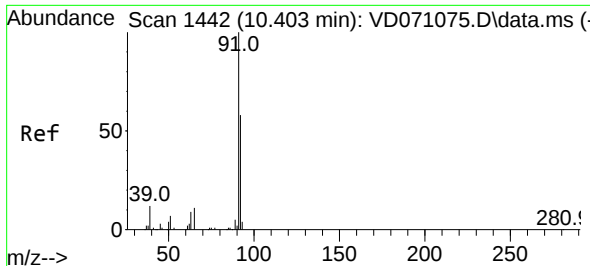
Tgt Ion: 98 Resp: 728852  
Ion Ratio Lower Upper  
98 100  
100 65.5 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 31.204 ug/l  
RT: 10.226 min Scan# 1412  
Delta R.T. 0.000 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion: 43 Resp: 1667  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#

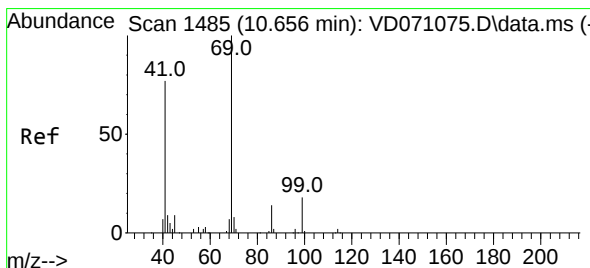
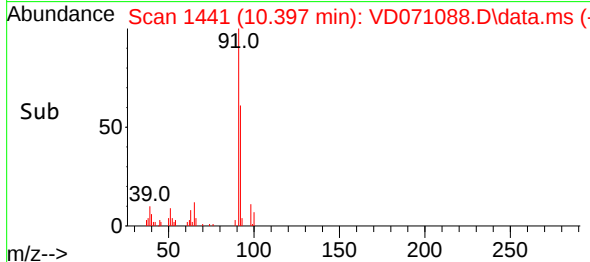
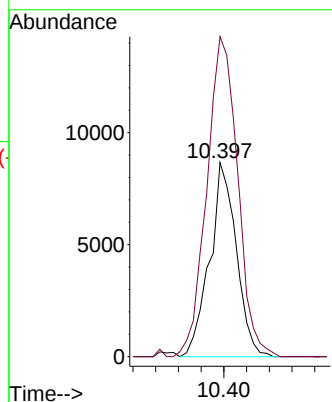
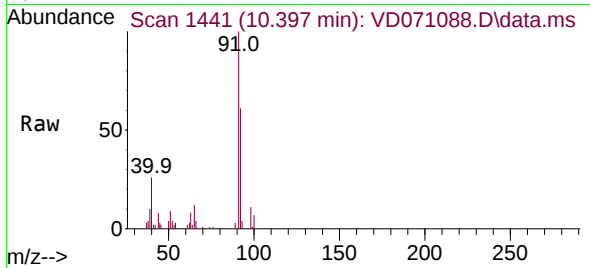




#52  
Toluene  
Concen: 1.503 ug/l  
RT: 10.397 min Scan# 1442  
Delta R.T. -0.006 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

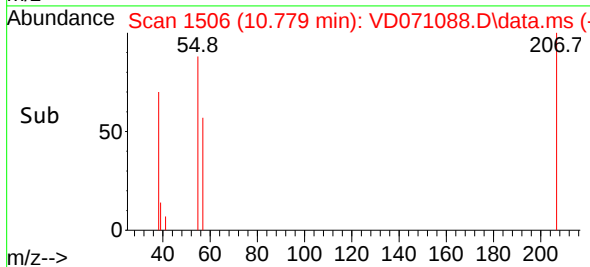
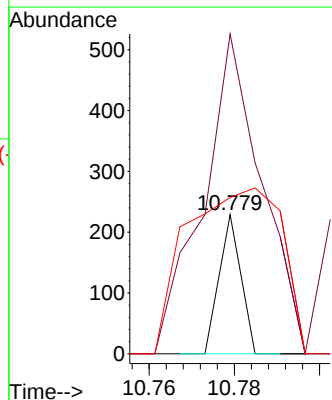
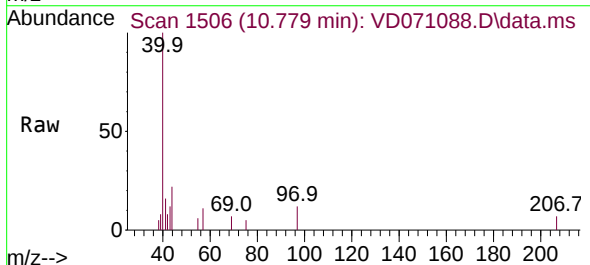
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

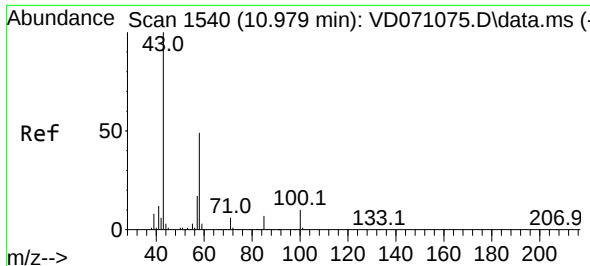
Tgt Ion: 92 Resp: 14095  
Ion Ratio Lower Upper  
92 100  
91 191.3 140.7 211.1



#56  
Ethyl methacrylate  
Concen: 5.989 ug/l  
RT: 10.779 min Scan# 1506  
Delta R.T. 0.123 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion: 69 Resp: 81  
Ion Ratio Lower Upper  
69 100  
41 622.2 50.2 75.2#  
39 524.7 19.8 29.8#

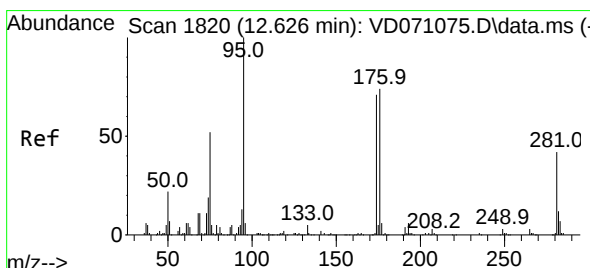
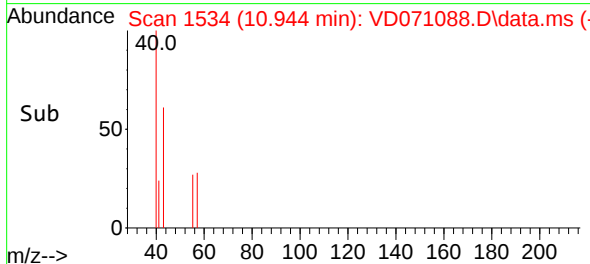
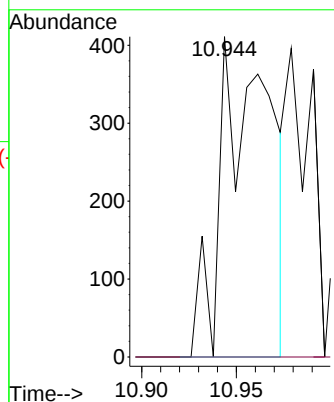
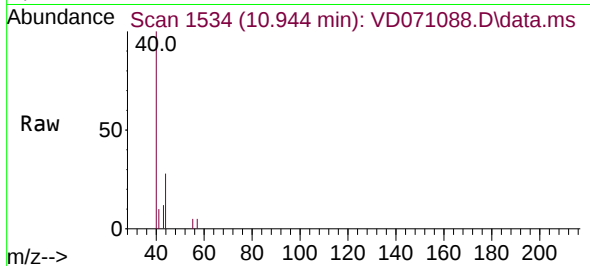




#59  
2-Hexanone  
Concen: 34.895 ug/l  
RT: 10.944 min Scan# 1534  
Delta R.T. -0.035 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

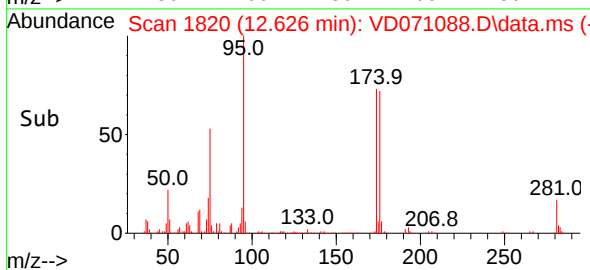
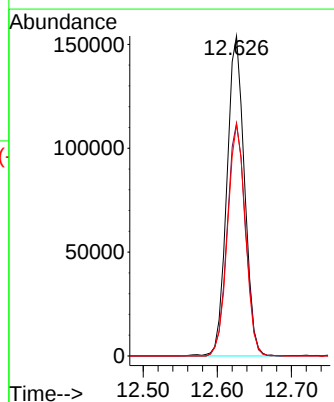
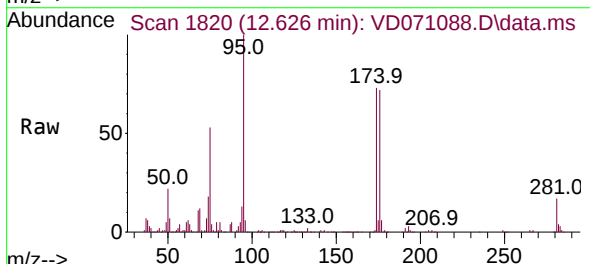
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

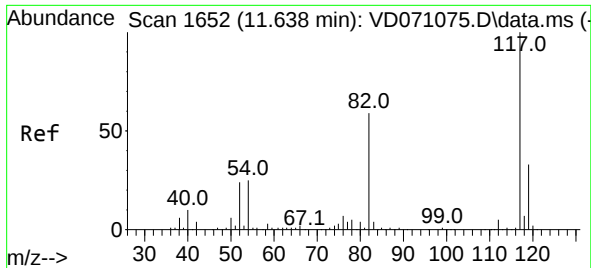
Tgt Ion: 43 Resp: 745  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.7 86.1#



#62  
4-Bromofluorobenzene  
Concen: 51.768 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion: 95 Resp: 253151  
Ion Ratio Lower Upper  
95 100  
174 75.0 0.0 159.4  
176 73.3 0.0 154.0

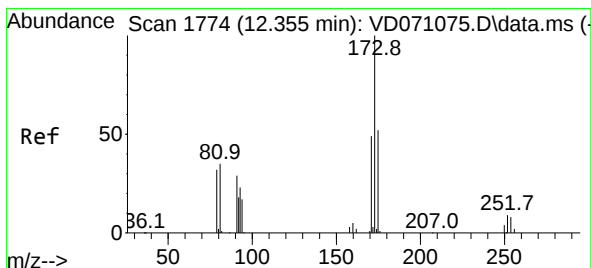
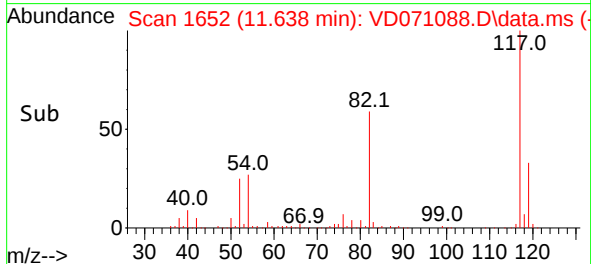
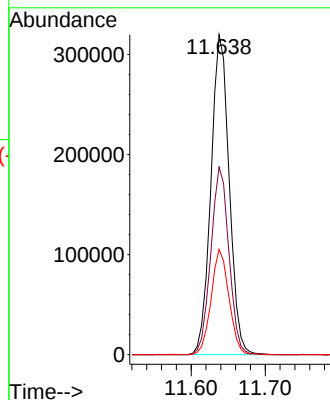
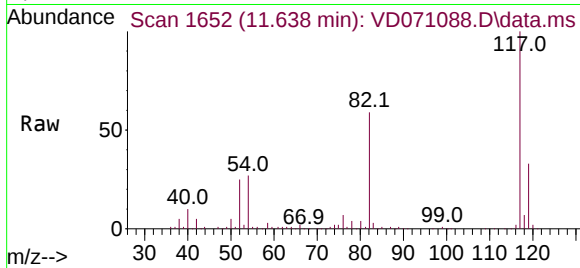




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

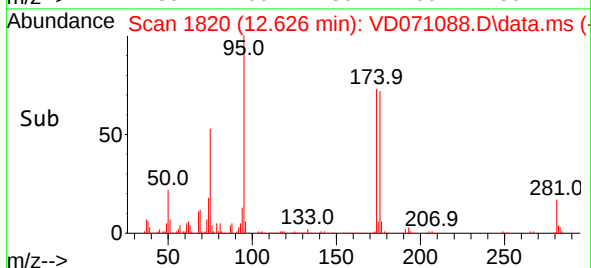
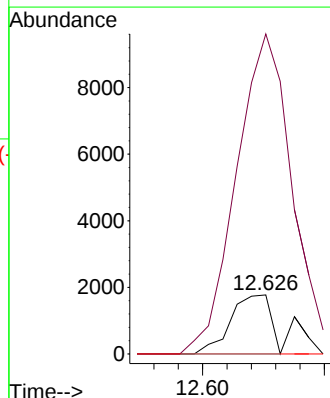
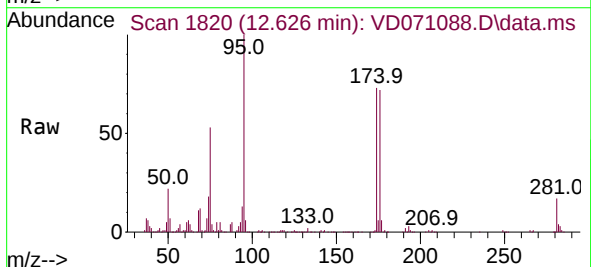
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

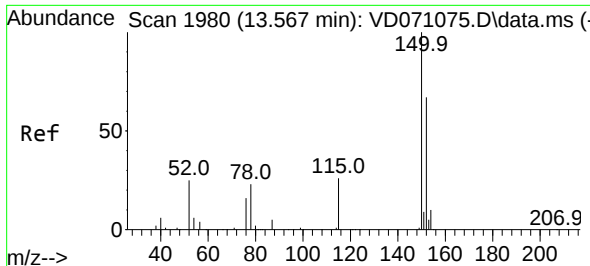
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:117 | Resp: | 547061      |
| Ion         | Ratio | Lower Upper |
| 117         | 100   |             |
| 82          | 58.6  | 44.7 67.1   |
| 119         | 32.9  | 26.2 39.4   |



#71  
Bromoform  
Concen: 1.054 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.271 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:173 | Resp: | 2024        |
| Ion         | Ratio | Lower Upper |
| 173         | 100   |             |
| 175         | 621.9 | 24.1 72.2#  |
| 254         | 0.0   | 0.1 0.1#    |

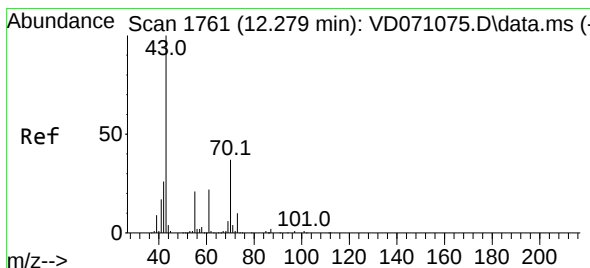
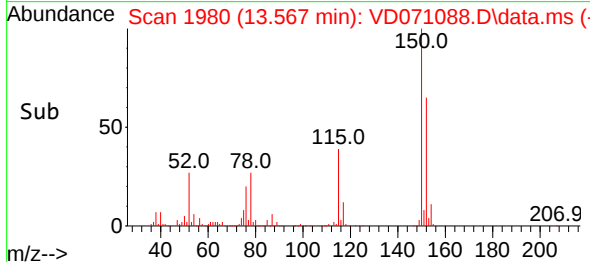
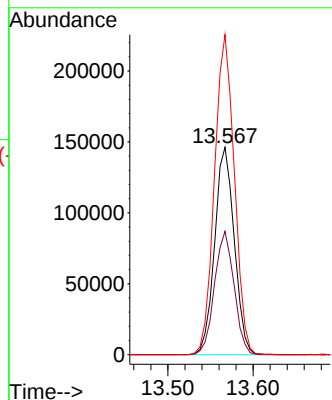
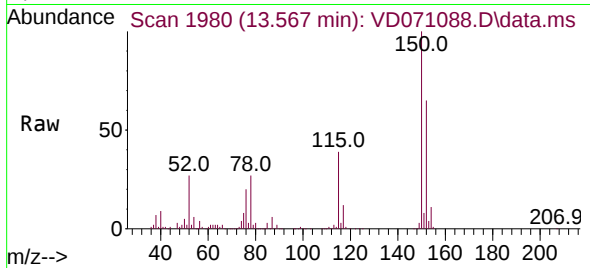




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

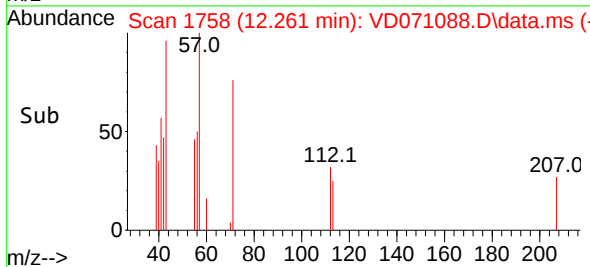
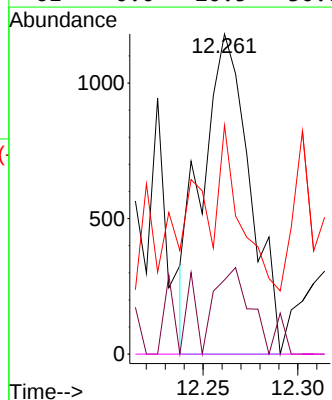
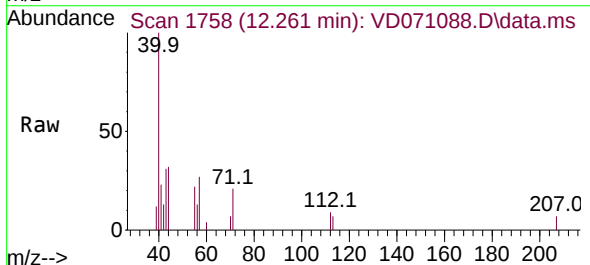
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

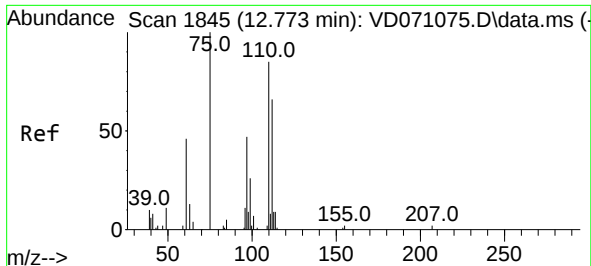
Tgt Ion:152 Resp: 234699  
Ion Ratio Lower Upper  
152 100  
115 59.2 29.8 89.3  
150 156.1 0.0 349.2



#74  
N-ethyl acetate  
Concen: 6.098 ug/l  
RT: 12.261 min Scan# 1758  
Delta R.T. -0.018 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion: 43 Resp: 2086  
Ion Ratio Lower Upper  
43 100  
70 22.1 36.6 55.0#  
55 0.0 22.5 33.7#  
61 0.0 20.5 30.7#

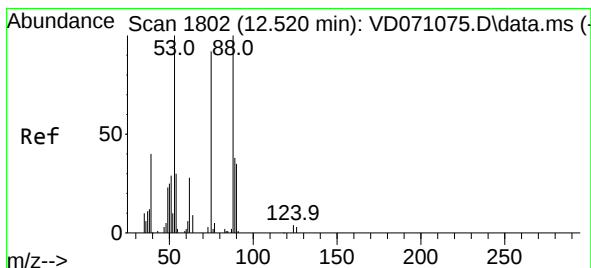
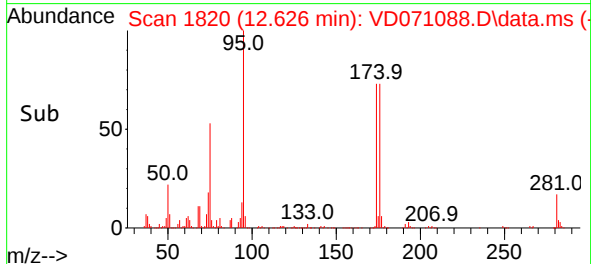
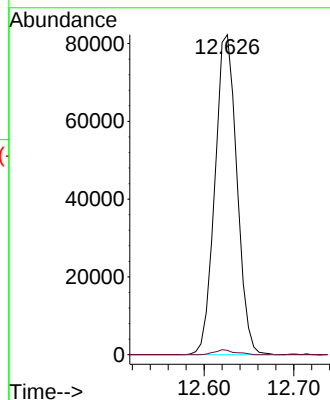
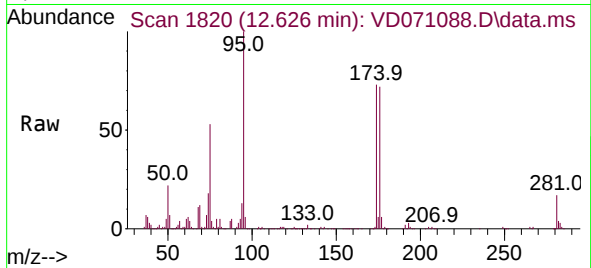




#76  
1,2,3-Trichloropropane  
Concen: 62.567 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-918-920

Tgt Ion: 75 Resp: 139907  
Ion Ratio Lower Upper  
75 100  
77 1.4 158.4 475.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 135.215 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD071088.D  
Acq: 30 Nov 2021 17:37

Tgt Ion: 75 Resp: 139907  
Ion Ratio Lower Upper  
75 100  
53 0.3 62.6 94.0#  
89 0.0 34.5 51.7#

