

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD113021\  
 Data File : VD071089.D  
 Acq On : 30 Nov 2021 18:04  
 Operator : VA/SY  
 Sample : M4867-02  
 Misc : 5.02G/5.00ml/MSVOA\_D/soil  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW9-GW-888-890

Quant Time: Dec 01 03:34:21 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      | 7.985  | 168  | 323661   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 587967   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 568109   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 231510   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.332  | 65    | 169014   | 44.503   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 89.000%  |
| 35) Dibromofluoromethane    | 7.914  | 113   | 182250   | 48.676   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 97.360%  |
| 50) Toluene-d8              | 10.338 | 98    | 742551   | 52.115   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 104.240% |
| 62) 4-Bromofluorobenzene    | 12.626 | 95    | 253813   | 51.390   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 102.780% |

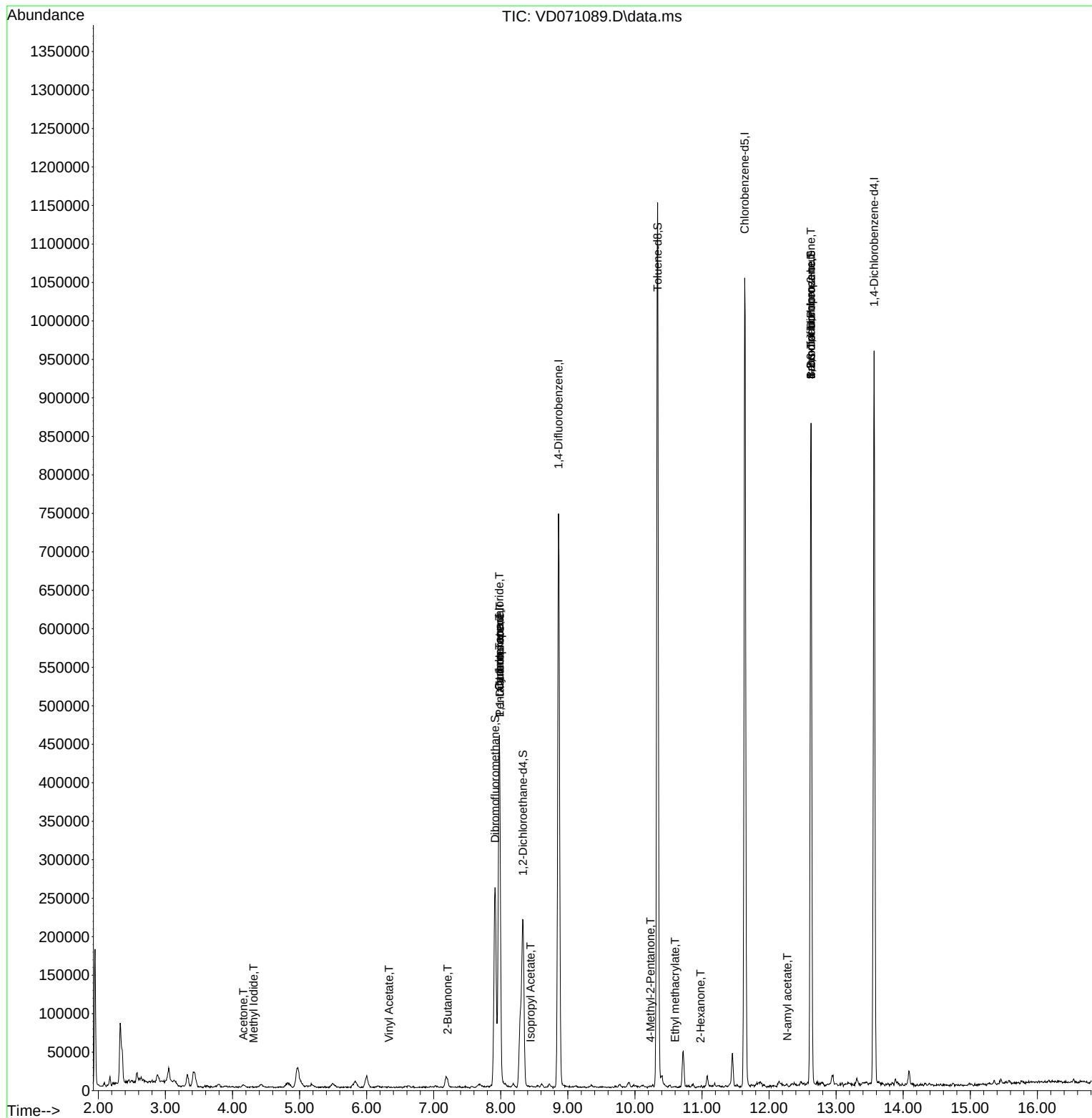
|                               |        |     |        |           |        |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| Target Compounds              |        |     | Qvalue |           |        |    |
| 10) Methyl Iodide             | 4.314  | 142 | 200    | 4.609     | ug/l # | 40 |
| 11) Tert butyl alcohol        | 5.214  | 59  | 1523   | Below Cal | #      | 71 |
| 16) Acetone                   | 4.161  | 43  | 5866   | 35.896    | ug/l # | 74 |
| 23) Vinyl Acetate             | 6.332  | 43  | 298    | 27.261    | ug/l # | 72 |
| 25) 2-Butanone                | 7.208  | 43  | 1752   | 29.693    | ug/l   | 97 |
| 31) Cyclohexane               | 7.979  | 56  | 9816   | 1.520     | ug/l # | 1  |
| 36) 1,1-Dichloropropene       | 7.985  | 75  | 29564  | 5.380     | ug/l # | 48 |
| 38) Carbon Tetrachloride      | 7.979  | 117 | 33375  | 6.161     | ug/l # | 18 |
| 41) Methacrylonitrile         | 7.502  | 41  | 60     | Below Cal | #      | 12 |
| 43) Isopropyl Acetate         | 8.444  | 43  | 264    | 5.268     | ug/l # | 47 |
| 51) 4-Methyl-2-Pentanone      | 10.232 | 43  | 836    | 30.926    | ug/l # | 34 |
| 56) Ethyl methacrylate        | 10.596 | 69  | 58     | 5.984     | ug/l # | 1  |
| 59) 2-Hexanone                | 10.979 | 43  | 713    | 34.879    | ug/l # | 35 |
| 71) Bromoform                 | 12.626 | 173 | 3092   | 1.551     | ug/l # | 1  |
| 74) N-amyl acetate            | 12.273 | 43  | 1051   | 5.904     | ug/l # | 44 |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75  | 141853 | 64.311    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75  | 141853 | 138.824   | ug/l # | 18 |

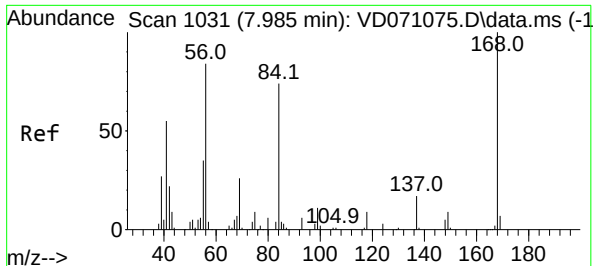
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD113021\  
Data File : VD071089.D  
Acq On : 30 Nov 2021 18:04  
Operator : VA/SY  
Sample : M4867-02  
Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

Quant Time: Dec 01 03:34:21 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

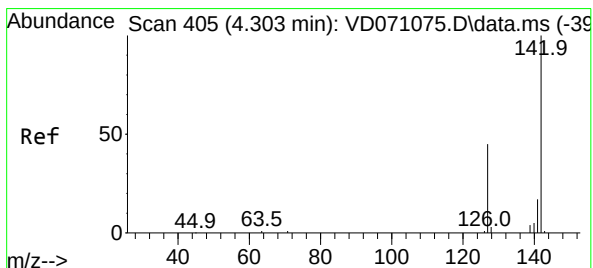
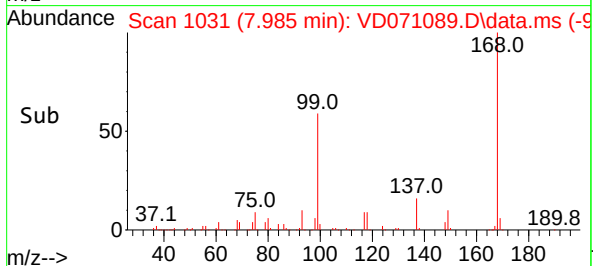
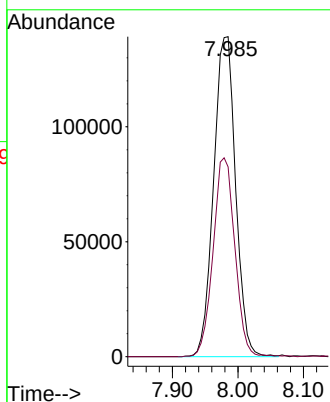
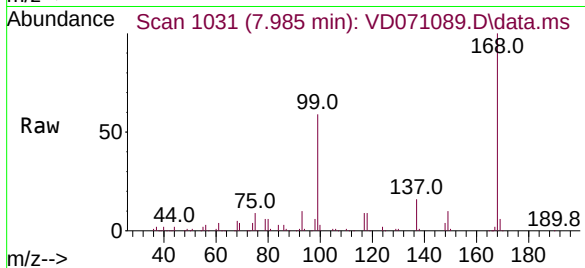




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

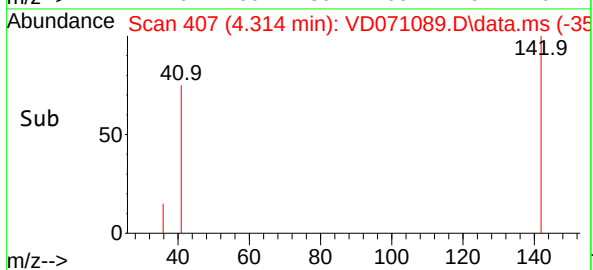
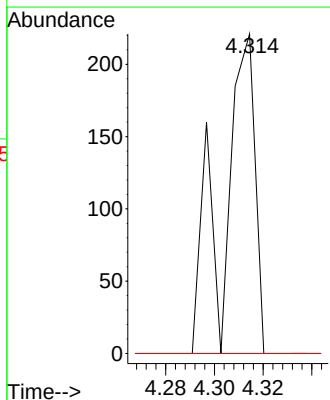
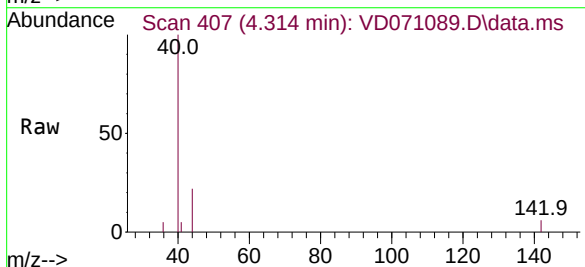
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

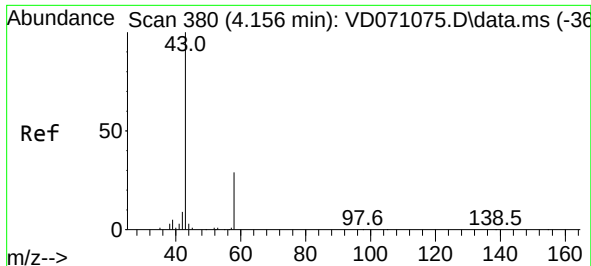
Tgt Ion:168 Resp: 323661  
Ion Ratio Lower Upper  
168 100  
99 59.3 46.6 69.8



#10  
Methyl Iodide  
Concen: 4.609 ug/l  
RT: 4.314 min Scan# 407  
Delta R.T. 0.011 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

Tgt Ion:142 Resp: 200  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.4#  
141 0.0 12.0 18.0#

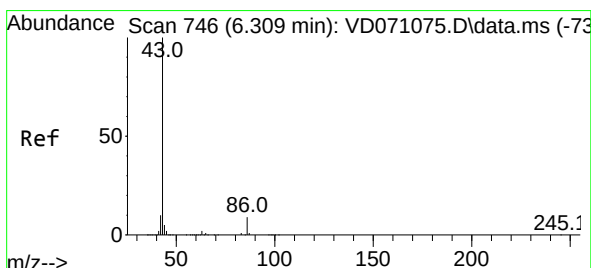
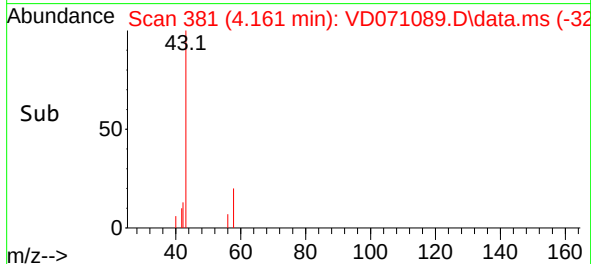
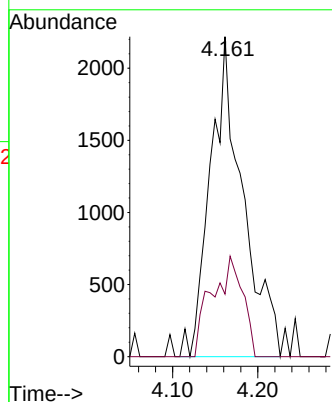
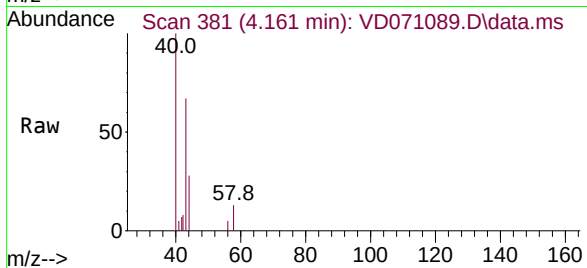




#16  
Acetone  
Concen: 35.896 ug/l  
RT: 4.161 min Scan# 31  
Delta R.T. 0.005 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

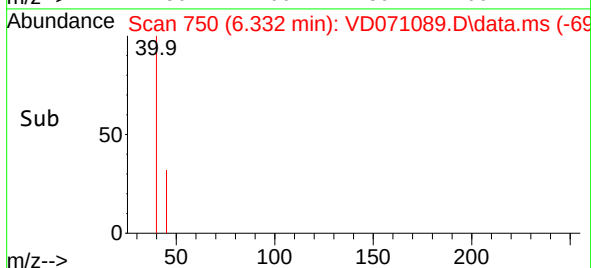
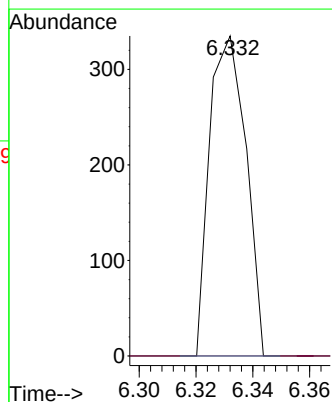
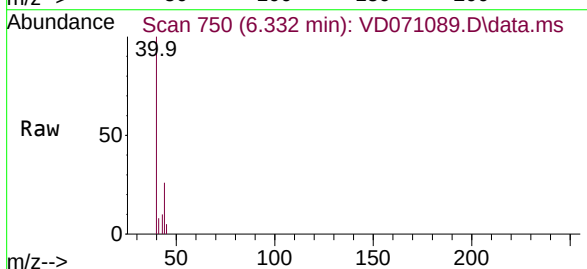
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

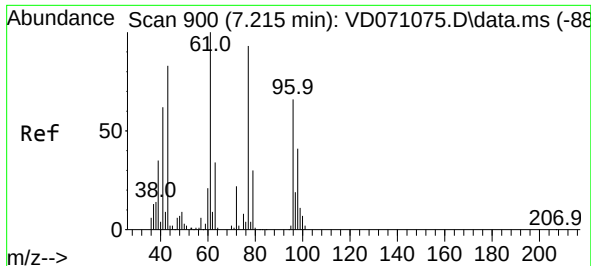
Tgt Ion: 43 Resp: 5866  
Ion Ratio Lower Upper  
43 100  
58 19.5 27.8 41.8#



#23  
Vinyl Acetate  
Concen: 27.261 ug/l  
RT: 6.332 min Scan# 750  
Delta R.T. 0.023 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

Tgt Ion: 43 Resp: 298  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.2 12.4#

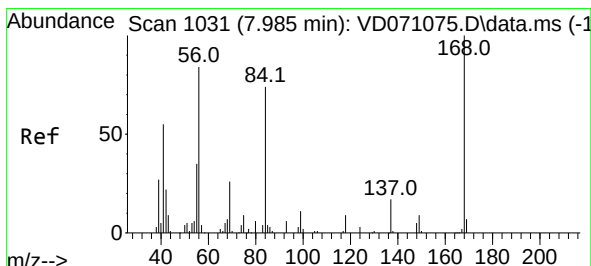
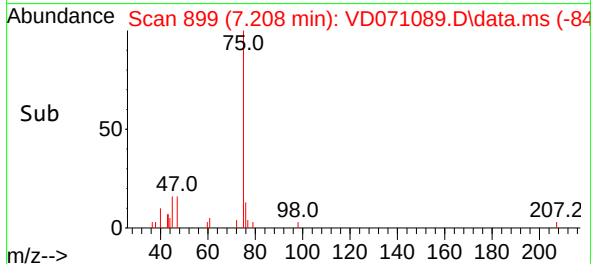
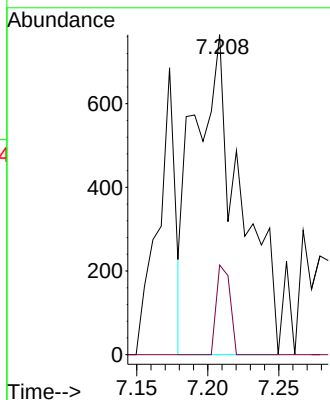
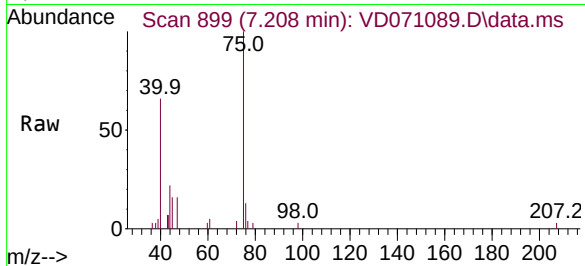




#25  
2-Butanone  
Concen: 29.693 ug/l  
RT: 7.208 min Scan# 899  
Delta R.T. -0.007 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

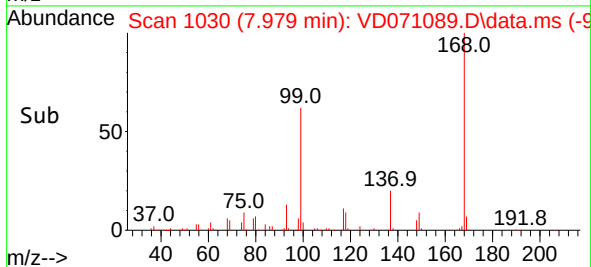
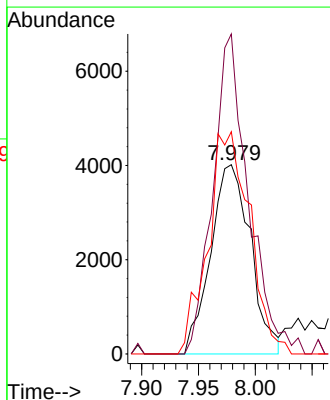
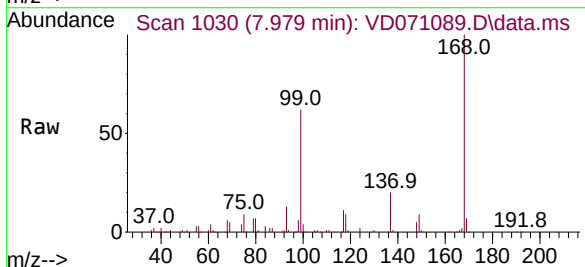
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

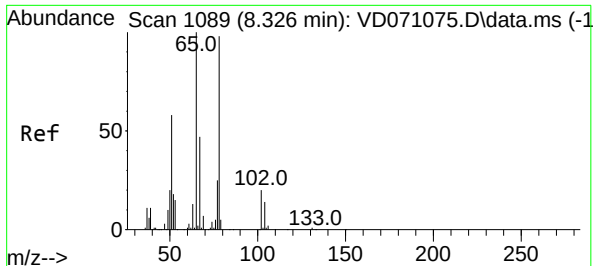
Tgt Ion: 43 Resp: 1752  
Ion Ratio Lower Upper  
43 100  
72 28.0 23.8 35.6



#31  
Cyclohexane  
Concen: 1.520 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

Tgt Ion: 56 Resp: 9816  
Ion Ratio Lower Upper  
56 100  
69 169.1 25.9 38.9#  
84 117.4 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 44.503 ug/l

RT: 8.332 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD071089.D

Acq: 30 Nov 2021 18:04

Instrument :

MSVOA\_D

ClientSampleId :

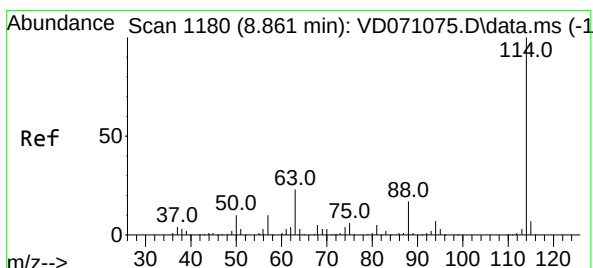
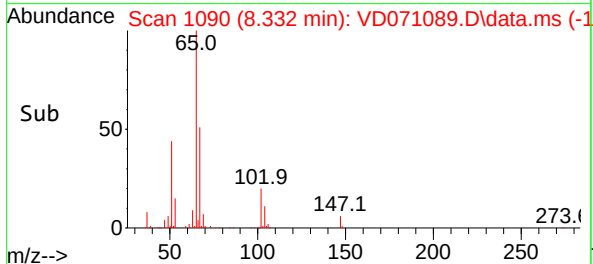
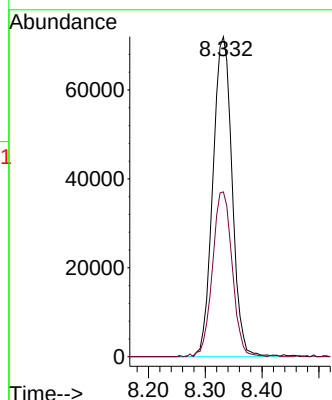
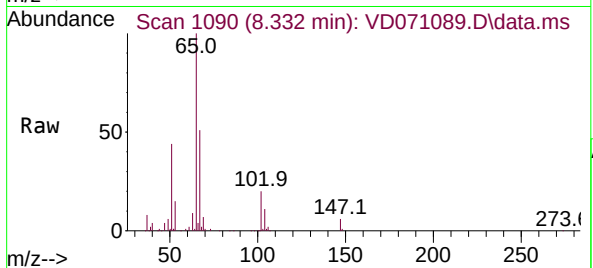
BP-VPB-RW9-GW-888-890

Tgt Ion: 65 Resp: 169014

Ion Ratio Lower Upper

65 100

67 52.8 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: VD071089.D

Acq: 30 Nov 2021 18:04

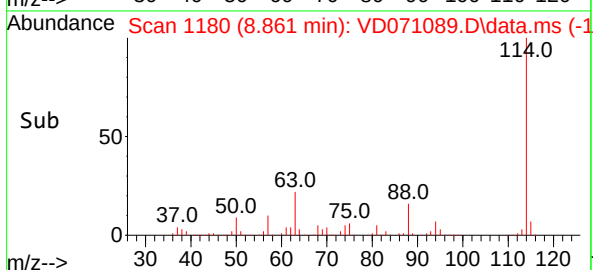
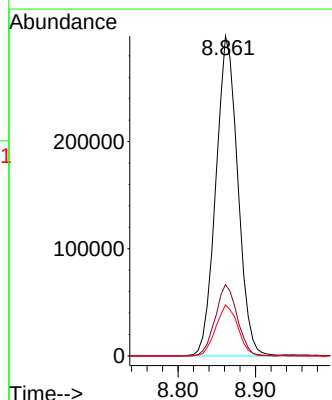
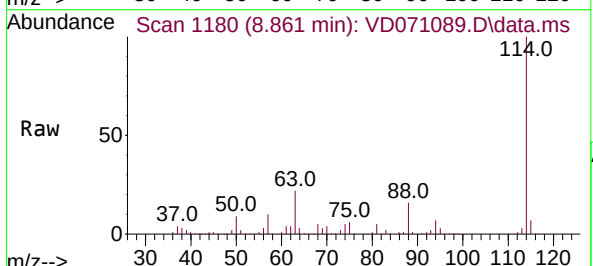
Tgt Ion: 114 Resp: 587967

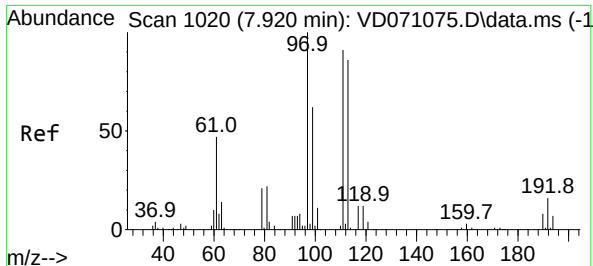
Ion Ratio Lower Upper

114 100

63 22.3 0.0 41.8

88 15.9 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.676 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071089.D

Acq: 30 Nov 2021 18:04

Instrument :

MSVOA\_D

ClientSampleId :

BP-VPB-RW9-GW-888-890

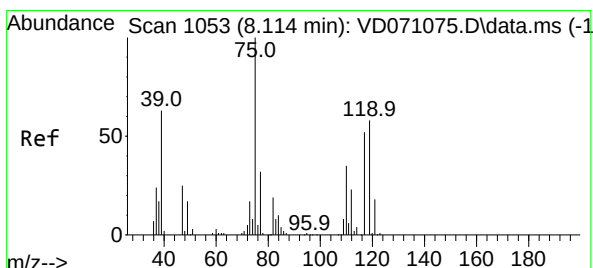
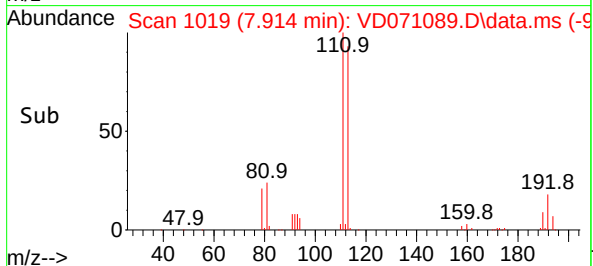
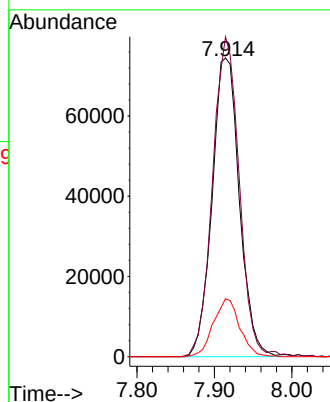
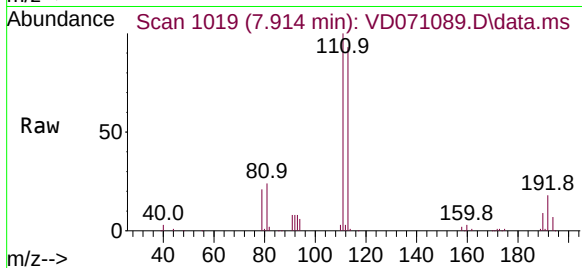
Tgt Ion:113 Resp: 182250

Ion Ratio Lower Upper

113 100

111 104.6 82.0 123.0

192 18.8 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.380 ug/l

RT: 7.985 min Scan# 1031

Delta R.T. -0.129 min

Lab File: VD071089.D

Acq: 30 Nov 2021 18:04

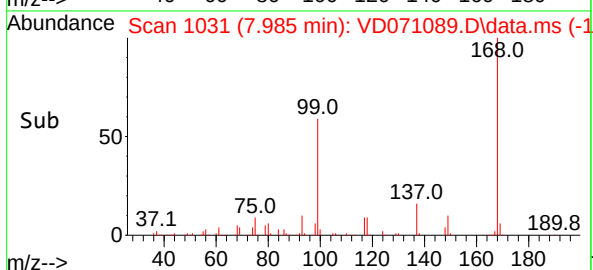
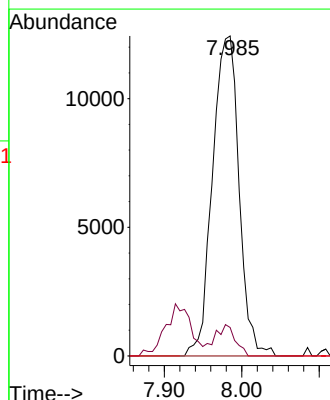
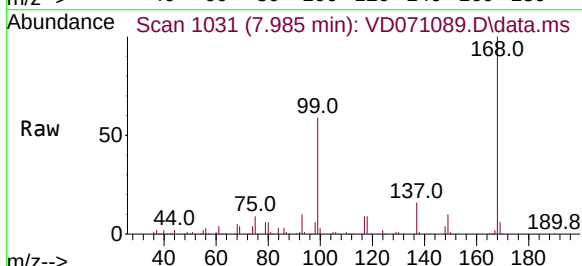
Tgt Ion: 75 Resp: 29564

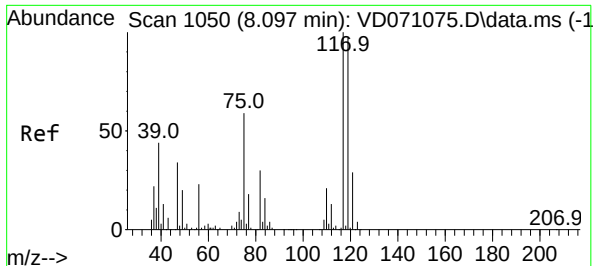
Ion Ratio Lower Upper

75 100

110 7.6 17.8 53.4#

77 0.0 24.8 37.2#

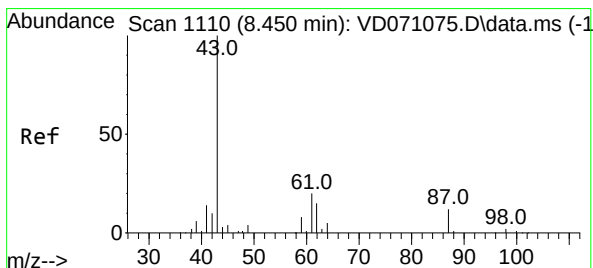
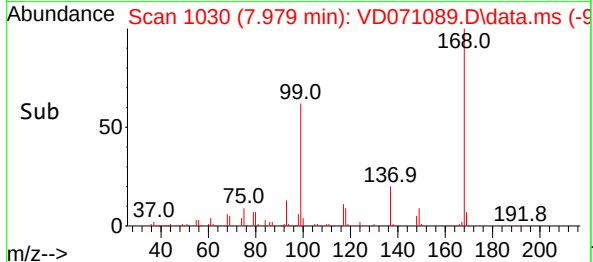
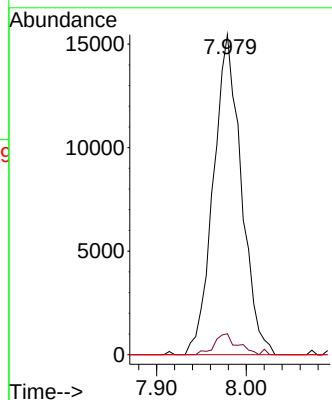
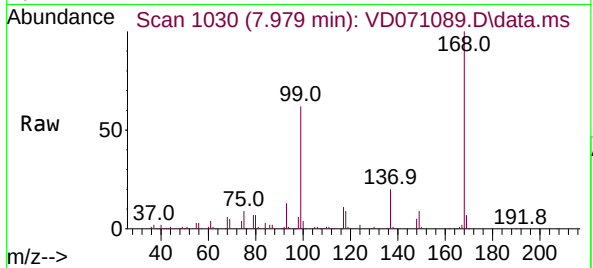




#38  
Carbon Tetrachloride  
Concen: 6.161 ug/l  
RT: 7.979 min Scan# 1109  
Delta R.T. -0.118 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

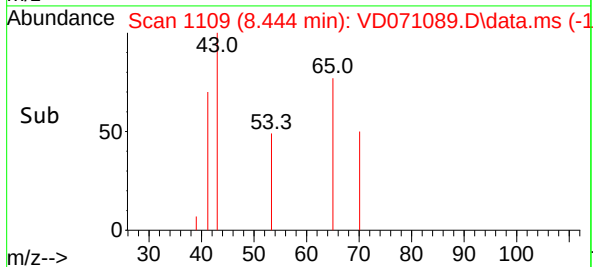
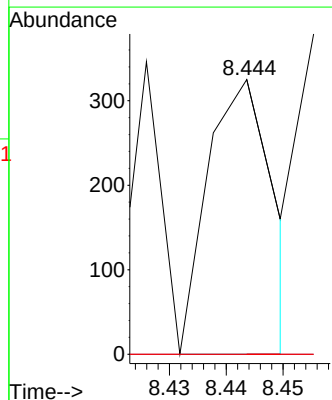
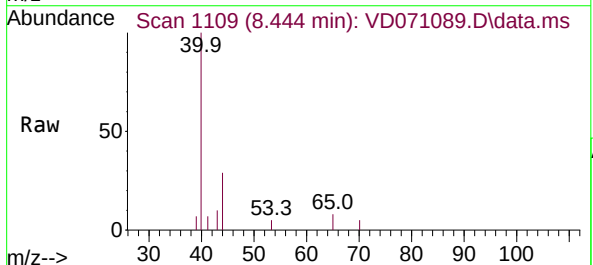
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

Tgt Ion:117 Resp: 33375  
Ion Ratio Lower Upper  
117 100  
119 6.5 75.8 113.6#  
121 0.0 23.6 35.4#

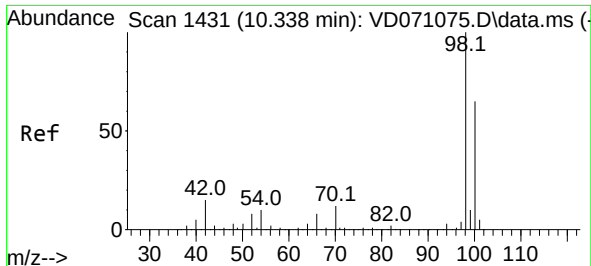


#43  
Isopropyl Acetate  
Concen: 5.268 ug/l  
RT: 8.444 min Scan# 1109  
Delta R.T. -0.006 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

Tgt Ion: 43 Resp: 264  
Ion Ratio Lower Upper  
43 100  
61 0.0 28.2 42.4#  
87 0.0 10.7 16.1#



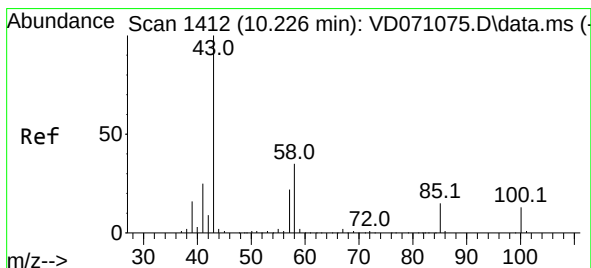
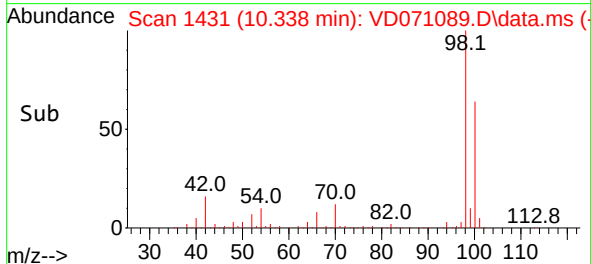
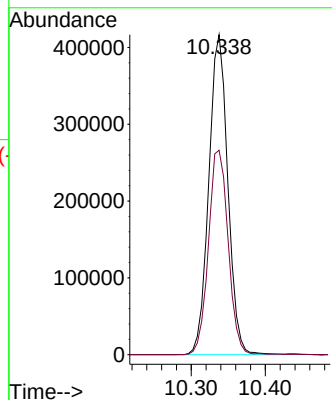
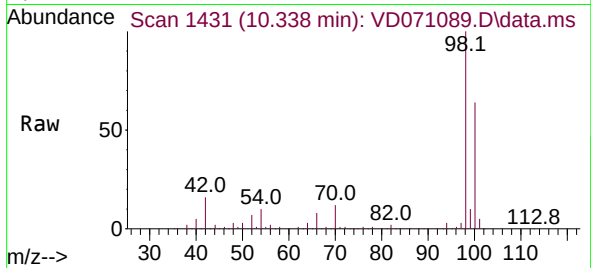




#50  
Toluene-d8  
Concen: 52.115 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

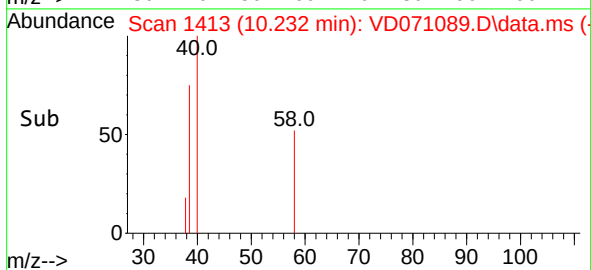
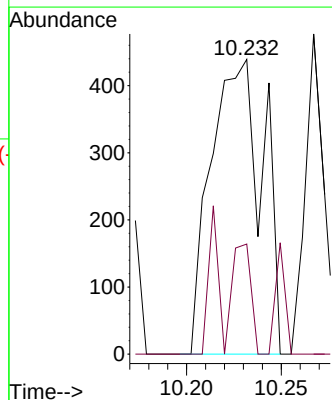
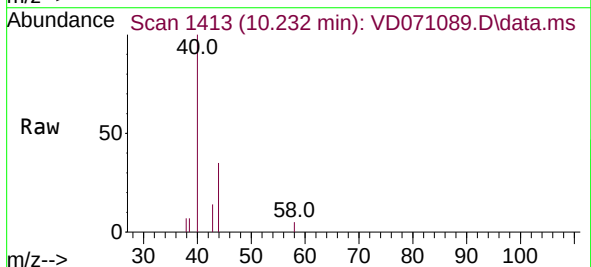
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

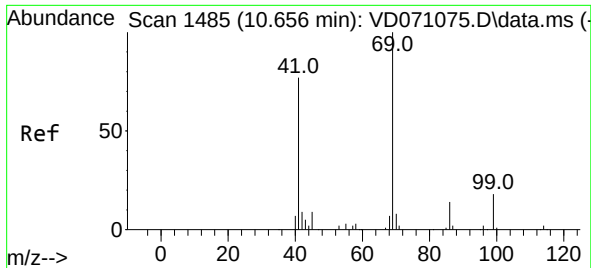
Tgt Ion: 98 Resp: 742551  
Ion Ratio Lower Upper  
98 100  
100 66.4 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 30.926 ug/l  
RT: 10.232 min Scan# 1413  
Delta R.T. 0.006 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

Tgt Ion: 43 Resp: 836  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#

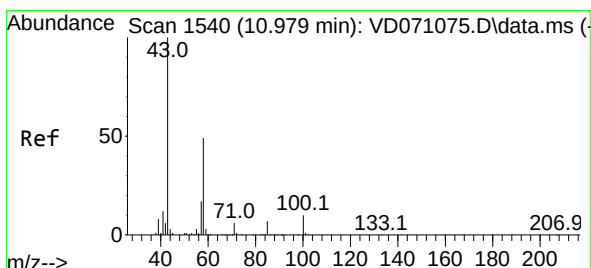
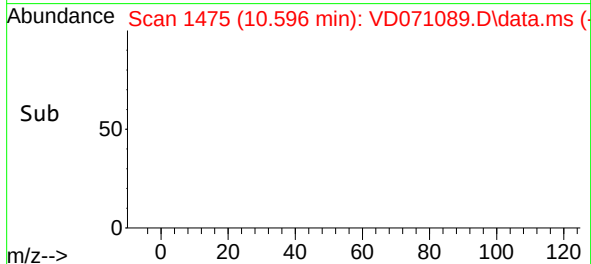
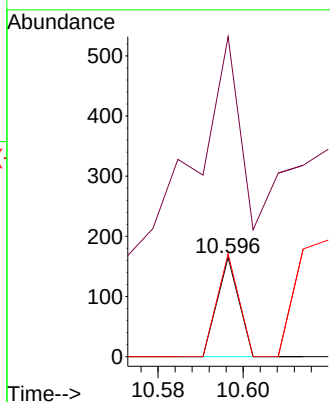
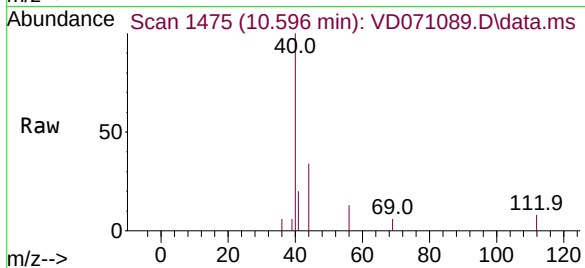




#56  
Ethyl methacrylate  
Concen: 5.984 ug/l  
RT: 10.596 min Scan# 1485  
Delta R.T. -0.060 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

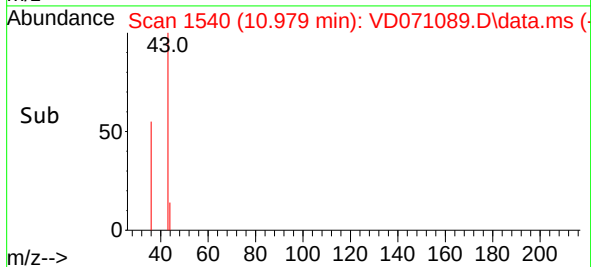
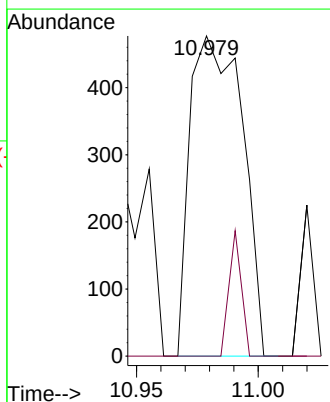
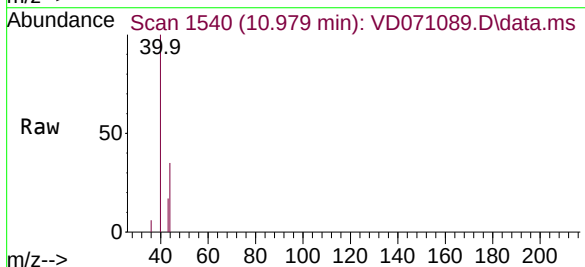
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

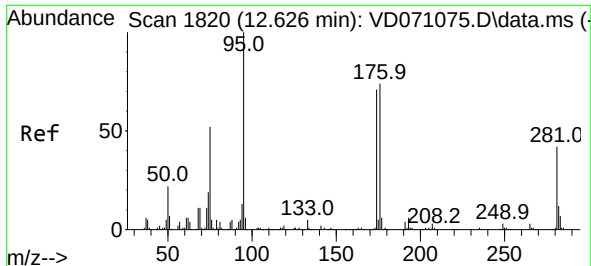
Tgt Ion: 69 Resp: 58  
Ion Ratio Lower Upper  
69 100  
41 1553.4 50.2 75.2#  
39 103.4 19.8 29.8#



#59  
2-Hexanone  
Concen: 34.879 ug/l  
RT: 10.979 min Scan# 1540  
Delta R.T. -0.000 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

Tgt Ion: 43 Resp: 713  
Ion Ratio Lower Upper  
43 100  
58 9.3 28.7 86.1#

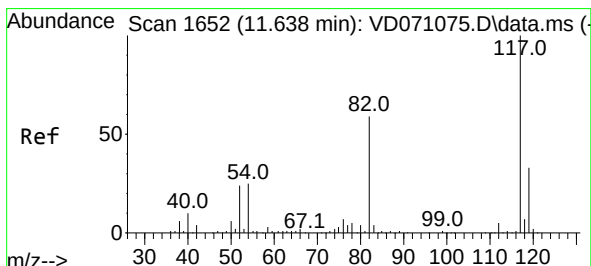
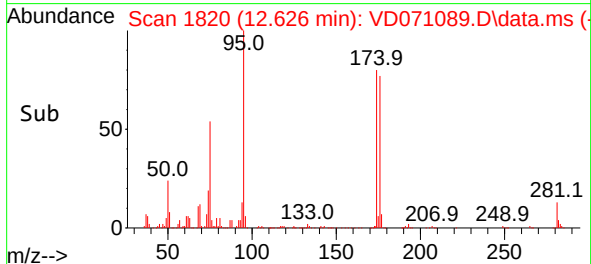
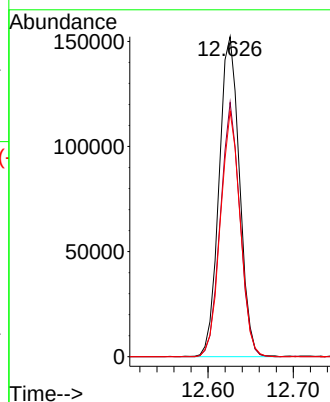
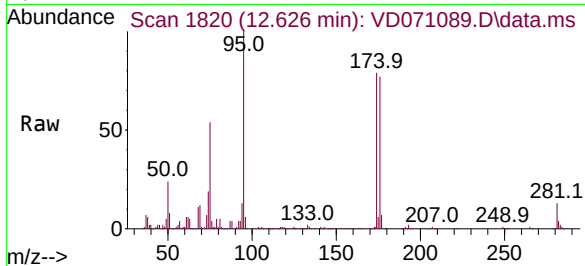




#62  
4-Bromofluorobenzene  
Concen: 51.390 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

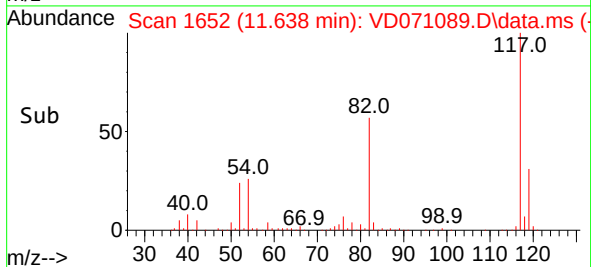
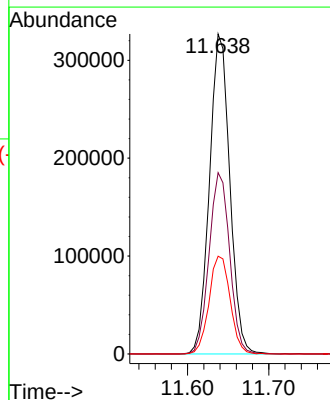
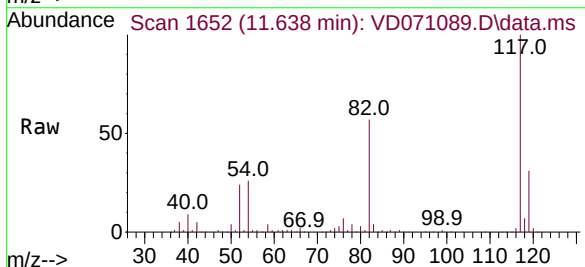
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

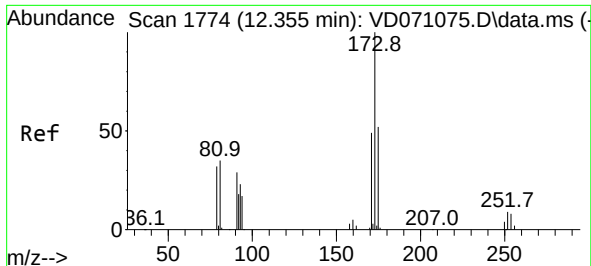
Tgt Ion: 95 Resp: 253813  
Ion Ratio Lower Upper  
95 100  
174 75.7 0.0 159.4  
176 74.1 0.0 154.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

Tgt Ion: 117 Resp: 568109  
Ion Ratio Lower Upper  
117 100  
82 56.7 44.7 67.1  
119 30.5 26.2 39.4

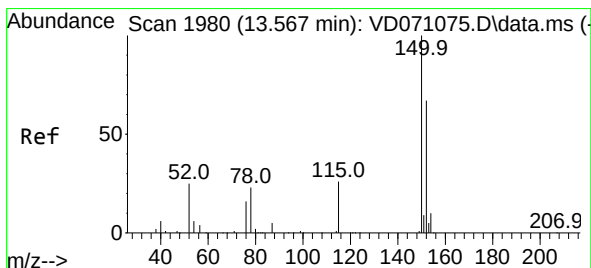
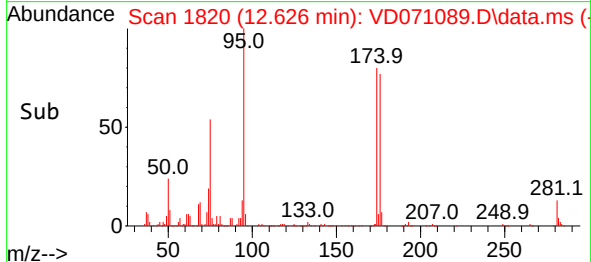
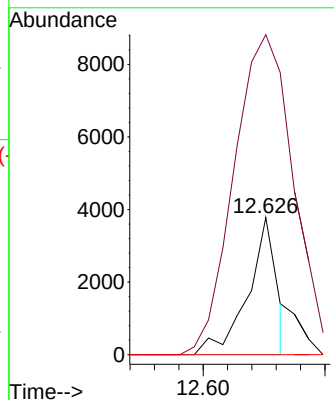
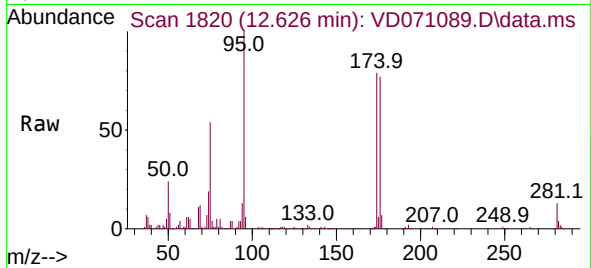




#71  
Bromoform  
Concen: 1.551 ug/l  
RT: 12.626 min Scan# 1774  
Delta R.T. 0.271 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

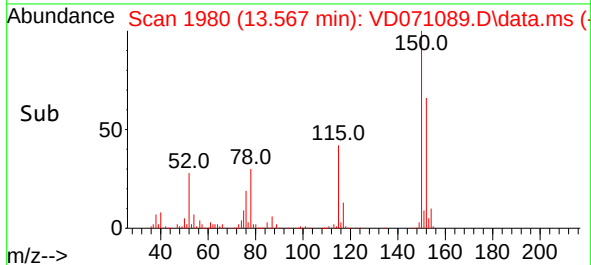
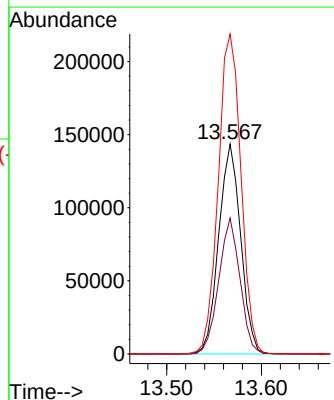
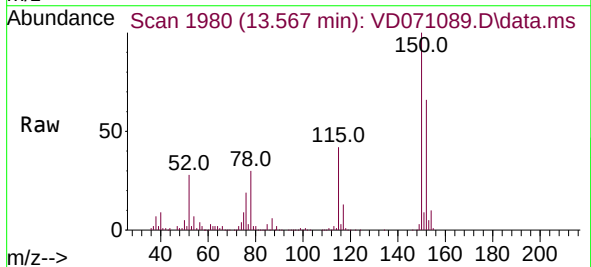
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

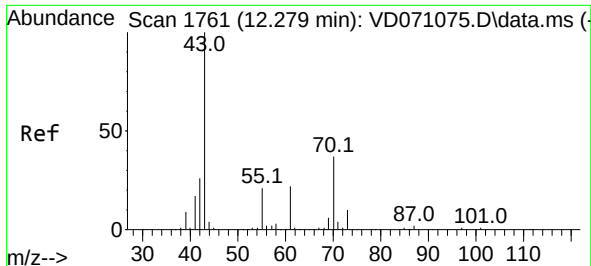
Tgt Ion:173 Resp: 3092  
Ion Ratio Lower Upper  
173 100  
175 394.4 24.1 72.2#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

Tgt Ion:152 Resp: 231510  
Ion Ratio Lower Upper  
152 100  
115 62.6 29.8 89.3  
150 157.7 0.0 349.2

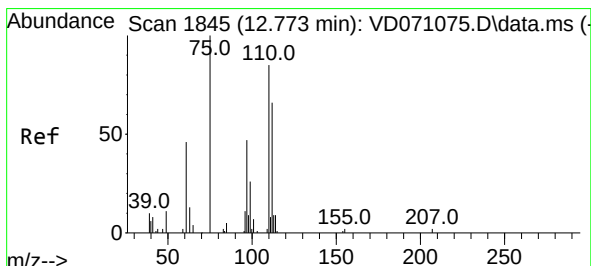
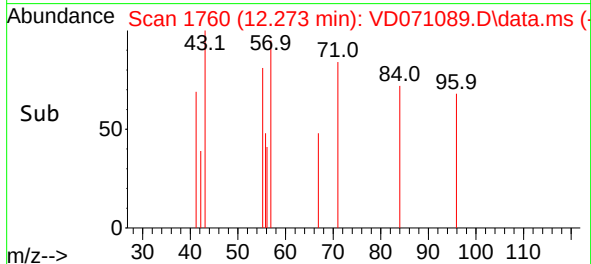
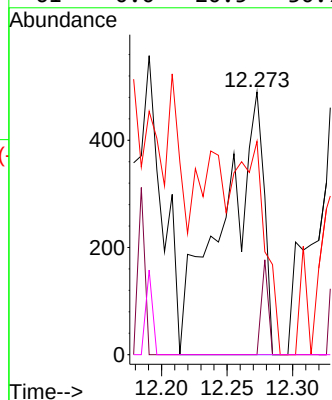
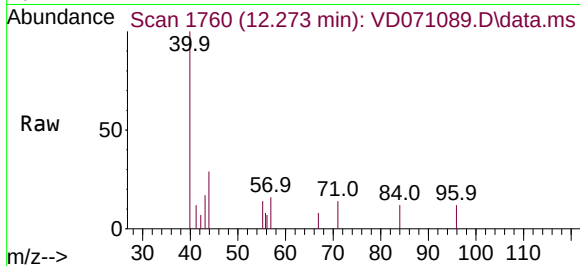




#74  
N-amy1 acetate  
Concen: 5.904 ug/l  
RT: 12.273 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

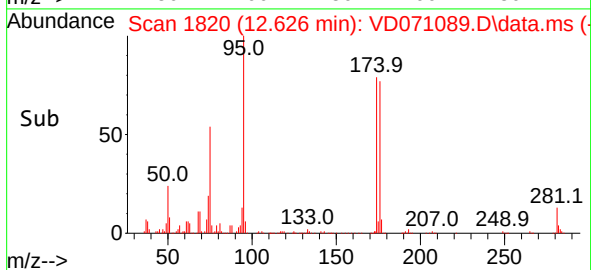
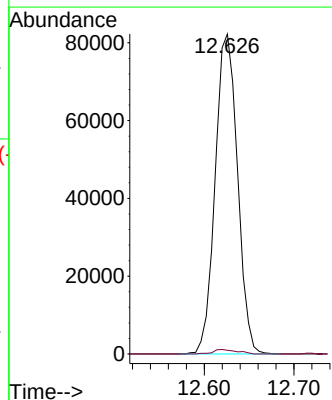
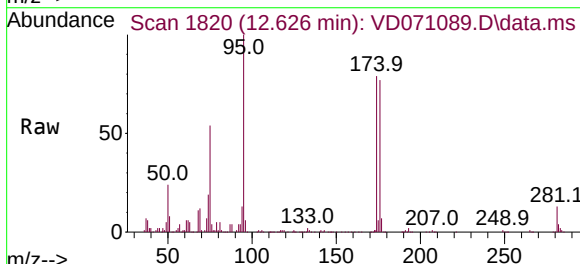
Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW9-GW-888-890

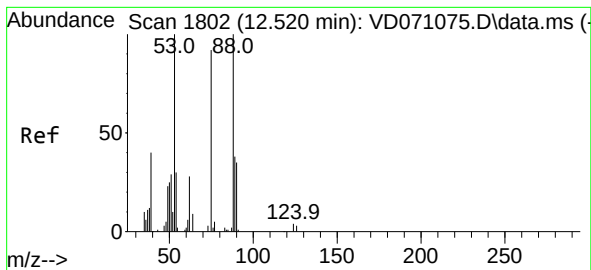
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 1051  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 5.9      | 36.6 55.0#  |
| 55 0.0      | 22.5 33.7#  |
| 61 0.0      | 20.5 30.7#  |



#76  
1,2,3-Trichloropropane  
Concen: 64.311 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD071089.D  
Acq: 30 Nov 2021 18:04

|             |              |
|-------------|--------------|
| Tgt Ion: 75 | Resp: 141853 |
| Ion Ratio   | Lower Upper  |
| 75 100      |              |
| 77 1.5      | 158.4 475.3# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 138.824 ug/l  
 RT: 12.626 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD071089.D  
 Acq: 30 Nov 2021 18:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW9-GW-888-890

Tgt Ion: 75 Resp: 141853  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 62.6 94.0#  
 89 0.1 34.5 51.7#

