

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102121\  
 Data File : VD070808.D  
 Acq On : 21 Oct 2021 18:44  
 Operator : VA/SY  
 Sample : M4294-10  
 Misc : 5.53G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Oct 22 06:17:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D101521S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 18 08:32:03 2021  
 Response via : Initial Calibration

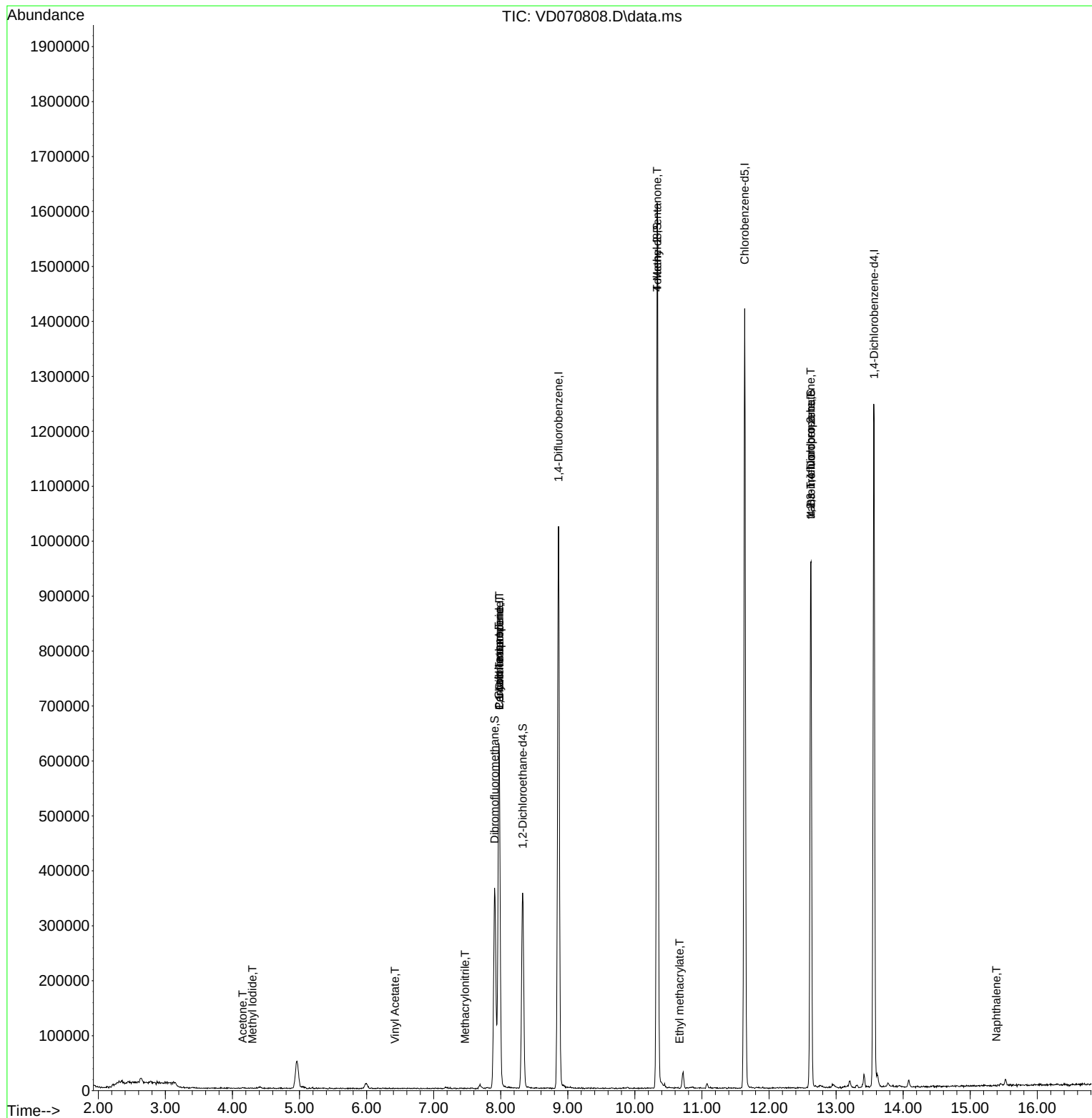
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 437972   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 806950   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 768425   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 321371   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 286968   | 55.319    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 110.640% |          |
| 35) Dibromofluoromethane      | 7.909  | 113   | 265701   | 51.423    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 102.840% |          |
| 50) Toluene-d8                | 10.332 | 98    | 1054945  | 53.262    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 106.520% |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 329785   | 48.355    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 96.720%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 10) Methyl Iodide             | 4.297  | 142   | 302      | 3.371     | ug/l #     | 38       |
| 16) Acetone                   | 4.150  | 43    | 1804     | 1.442     | ug/l #     | 86       |
| 20) Methylene Chloride        | 4.956  | 84    | 37549    | Below Cal |            | 91       |
| 23) Vinyl Acetate             | 6.420  | 43    | 60       | 16.335    | ug/l #     | 69       |
| 31) Cyclohexane               | 7.973  | 56    | 12190    | 1.161     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 40861    | 4.545     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 45972    | 5.339     | ug/l #     | 15       |
| 41) Methacrylonitrile         | 7.467  | 41    | 55       | 1.966     | ug/l #     | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.332 | 43    | 5048     | 1.348     | ug/l #     | 1        |
| 56) Ethyl methacrylate        | 10.667 | 69    | 179      | 4.182     | ug/l #     | 32       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 166828   | 60.085    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 166828   | 131.606   | ug/l #     | 17       |
| 95) Naphthalene               | 15.391 | 128   | 218      | 4.812     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

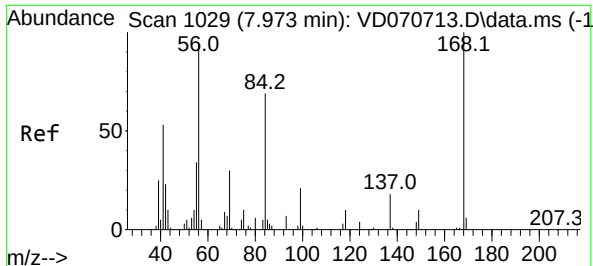
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Oct 22 06:17:18 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D101521S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 18 08:32:03 2021  
Response via : Initial Calibration

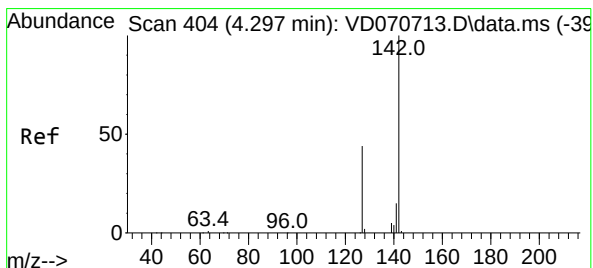
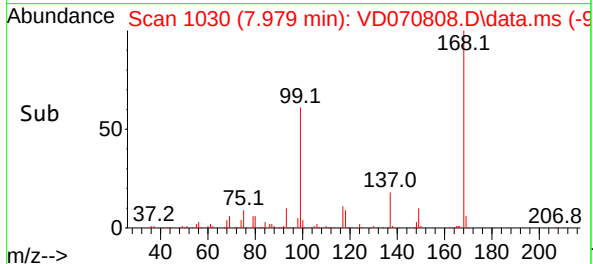
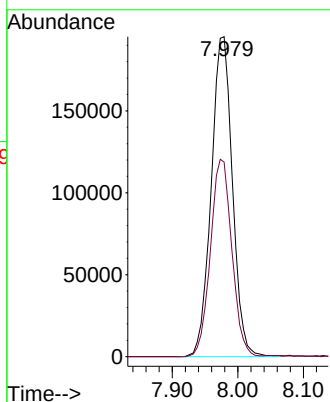
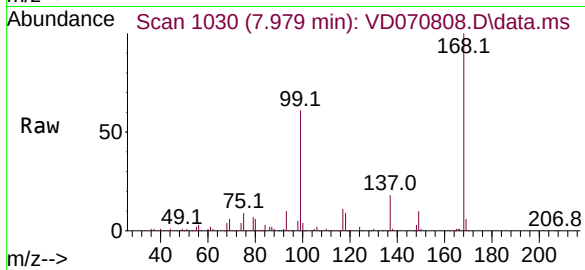




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.006 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

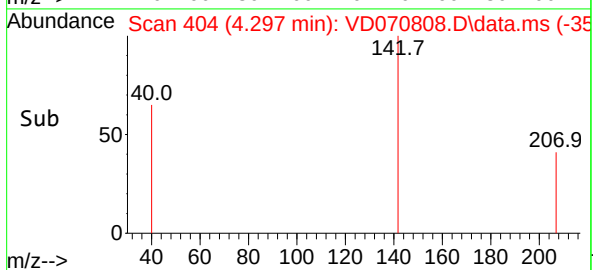
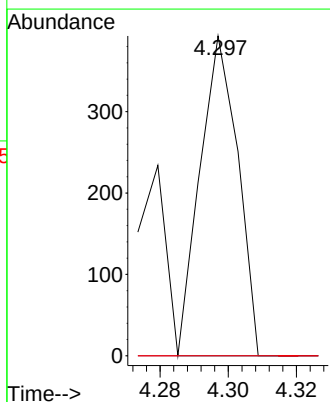
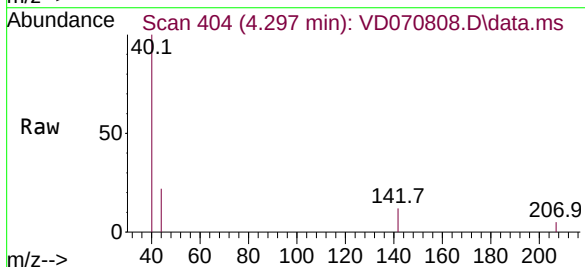
Instrument :  
MSVOA\_D  
ClientSampled :

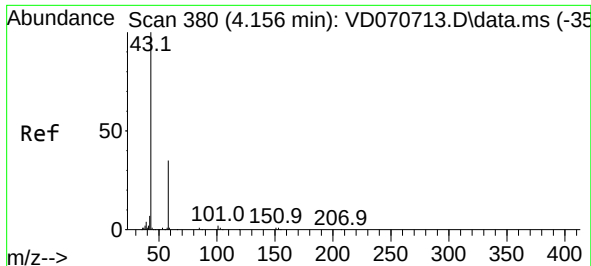
Tgt Ion:168 Resp: 437972  
Ion Ratio Lower Upper  
168 100  
99 60.8 51.4 77.0



#10  
Methyl Iodide  
Concen: 3.371 ug/l  
RT: 4.297 min Scan# 404  
Delta R.T. -0.000 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Tgt Ion:142 Resp: 302  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.5 56.3#  
141 0.0 12.1 18.1#

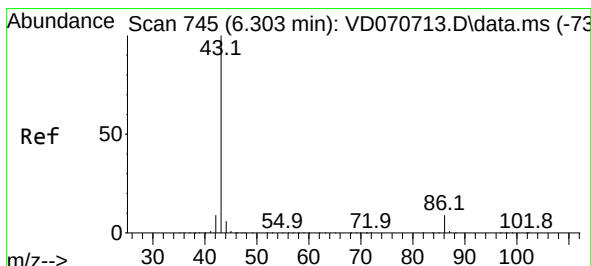
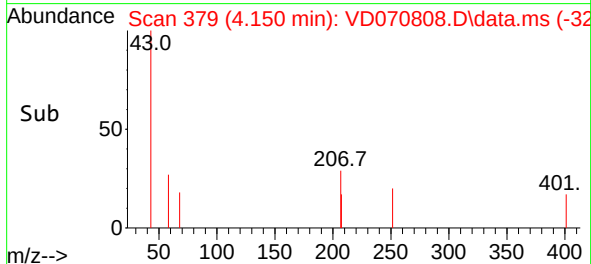
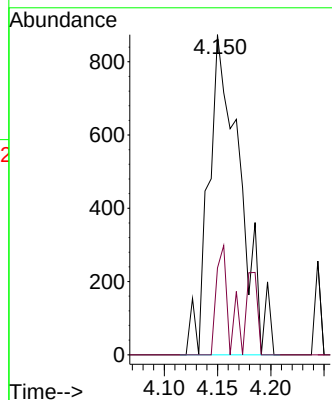
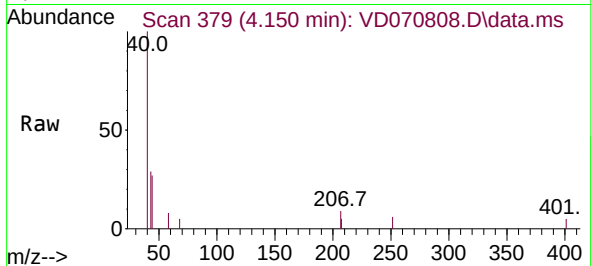




#16  
Acetone  
Concen: 1.442 ug/l  
RT: 4.150 min Scan# 379  
Delta R.T. -0.006 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

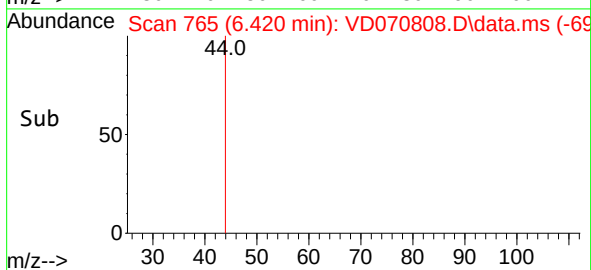
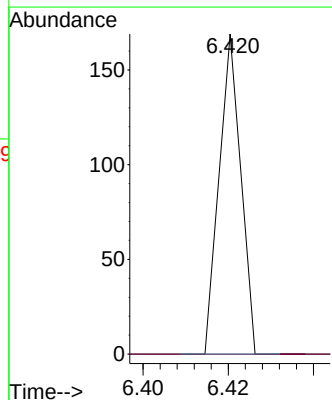
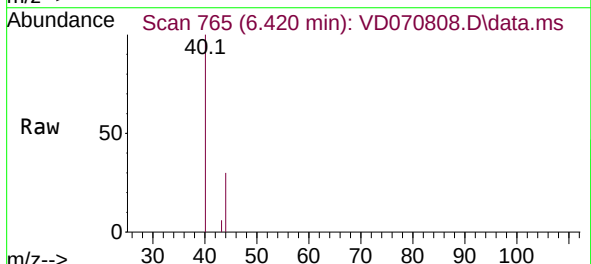
Instrument :  
MSVOA\_D  
ClientSampled :

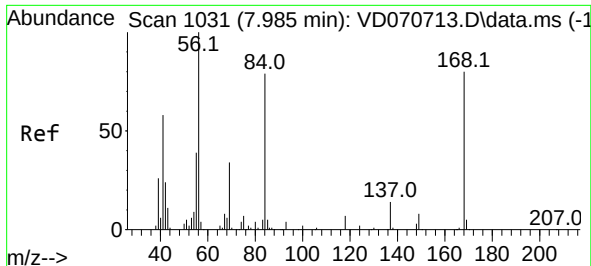
Tgt Ion: 43 Resp: 1804  
Ion Ratio Lower Upper  
43 100  
58 27.1 28.2 42.2#



#23  
Vinyl Acetate  
Concen: 16.335 ug/l  
RT: 6.420 min Scan# 765  
Delta R.T. 0.117 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Tgt Ion: 43 Resp: 60  
Ion Ratio Lower Upper  
43 100  
86 0.0 9.8 14.6#

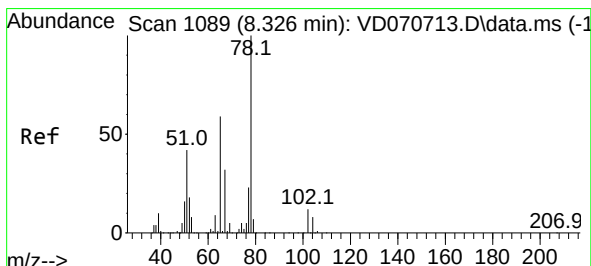
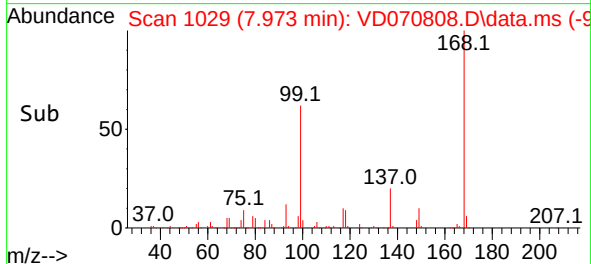
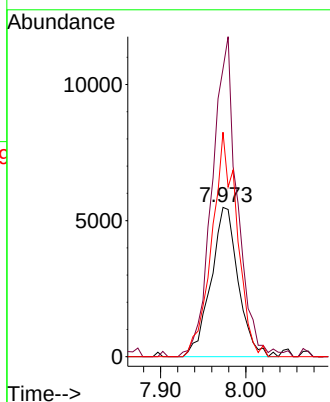
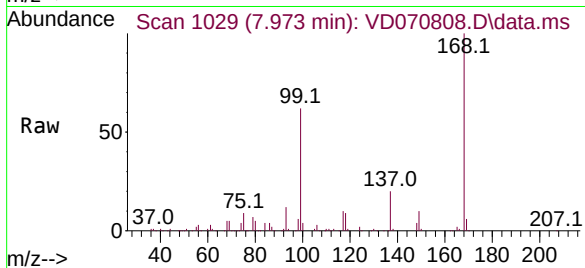




#31  
Cyclohexane  
Concen: 1.161 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

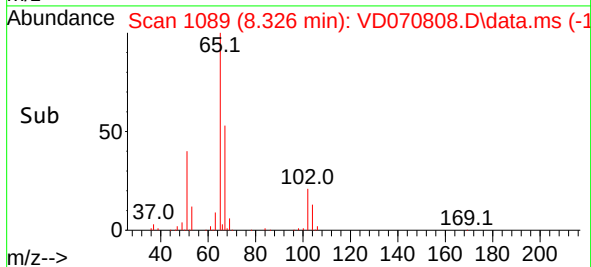
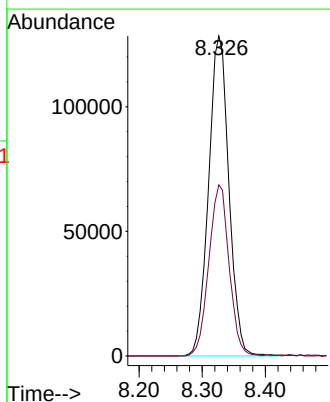
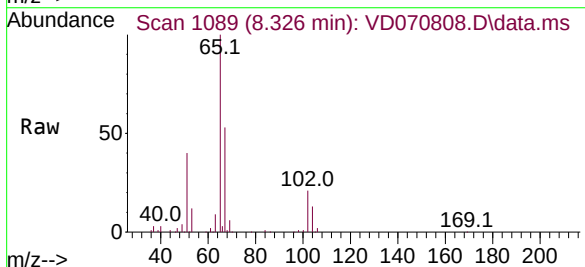
Instrument :  
MSVOA\_D  
ClientSampled :

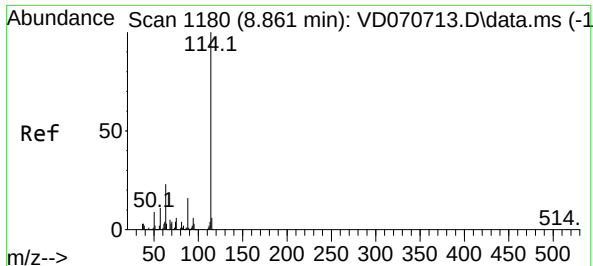
Tgt Ion: 56 Resp: 12190  
Ion Ratio Lower Upper  
56 100  
69 192.9 27.4 41.2#  
84 150.4 73.6 110.4#



#33  
1,2-Dichloroethane-d4  
Concen: 55.319 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Tgt Ion: 65 Resp: 286968  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD070808.D

Acq: 21 Oct 2021 18:44

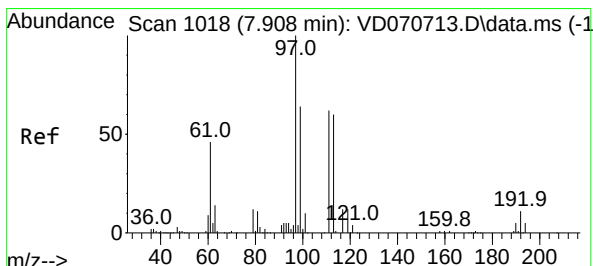
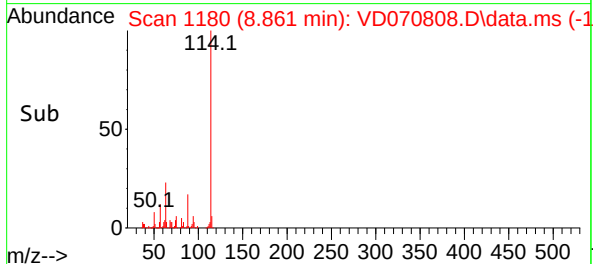
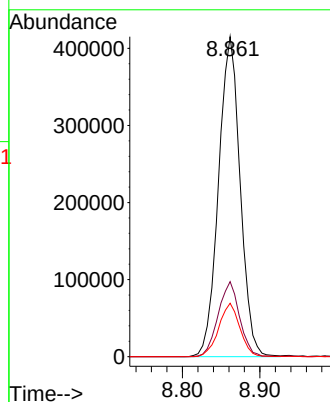
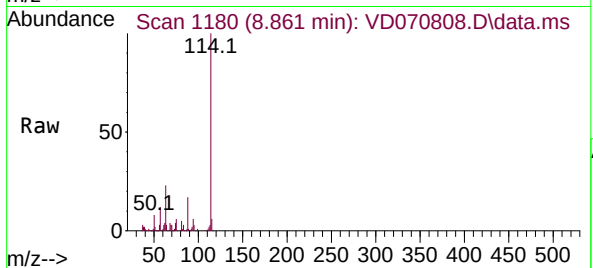
Tgt Ion:114 Resp: 806950

Ion Ratio Lower Upper

114 100

63 23.4 0.0 41.8

88 16.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.423 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD070808.D

Acq: 21 Oct 2021 18:44

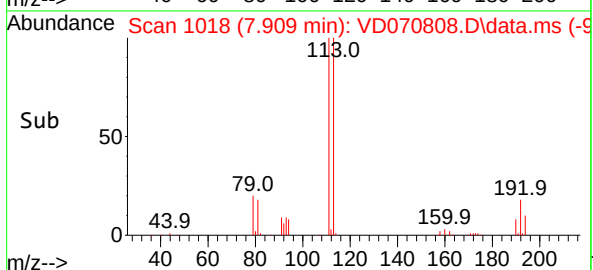
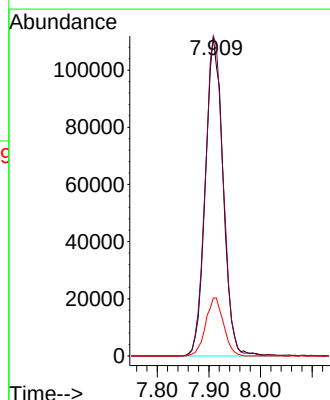
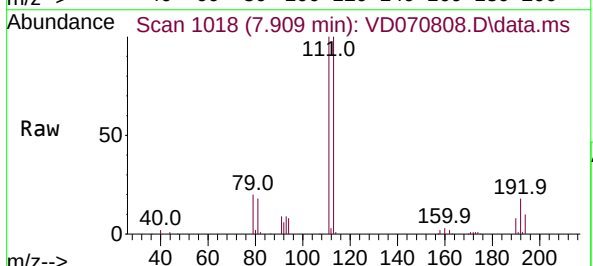
Tgt Ion:113 Resp: 265701

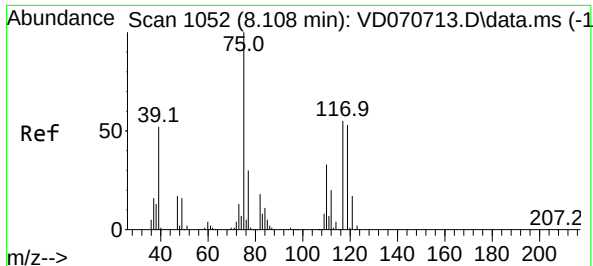
Ion Ratio Lower Upper

113 100

111 101.9 83.1 124.7

192 18.4 12.7 19.1

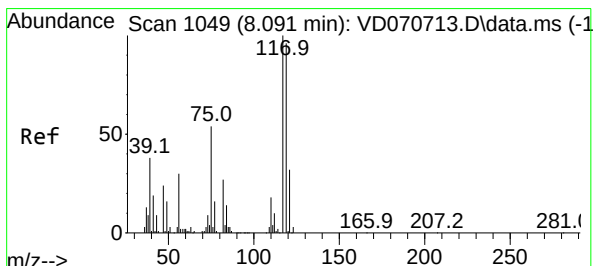
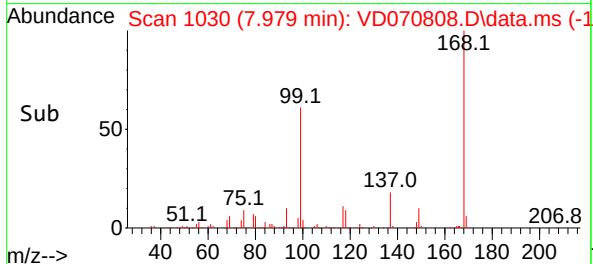
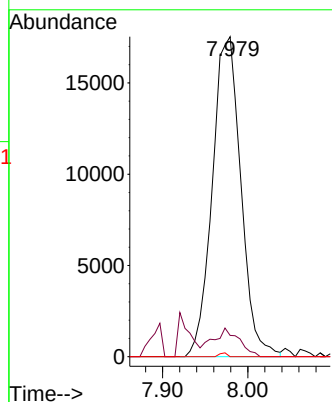
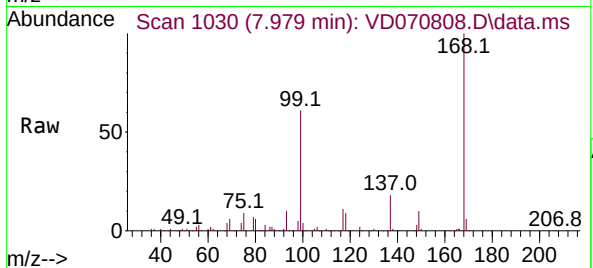




#36  
1,1-Dichloropropene  
Concen: 4.545 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.129 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

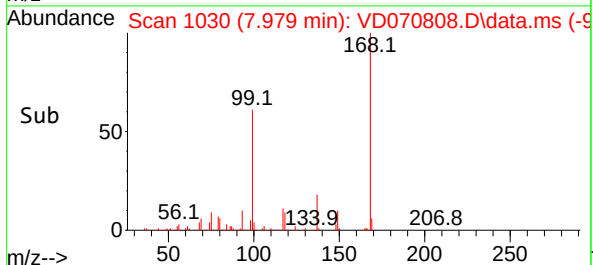
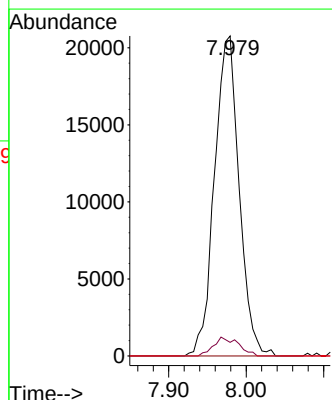
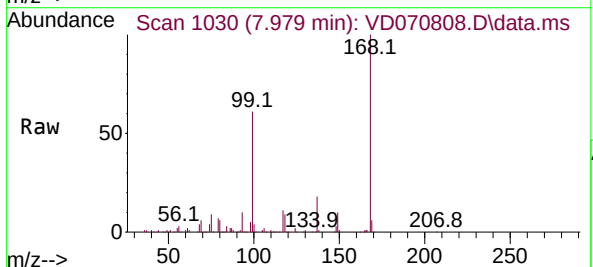
Instrument :  
MSVOA\_D  
ClientSampled :

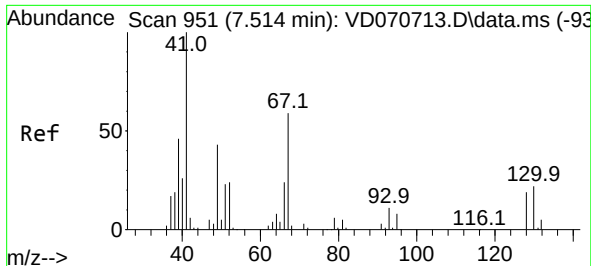
Tgt Ion: 75 Resp: 40861  
Ion Ratio Lower Upper  
75 100  
110 8.2 17.2 51.6#  
77 0.3 24.2 36.4#



#38  
Carbon Tetrachloride  
Concen: 5.339 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.112 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Tgt Ion: 117 Resp: 45972  
Ion Ratio Lower Upper  
117 100  
119 4.2 77.4 116.0#  
121 0.0 25.4 38.0#

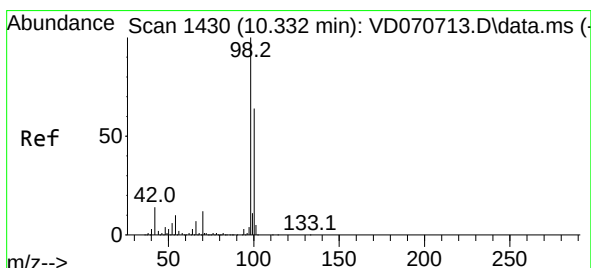
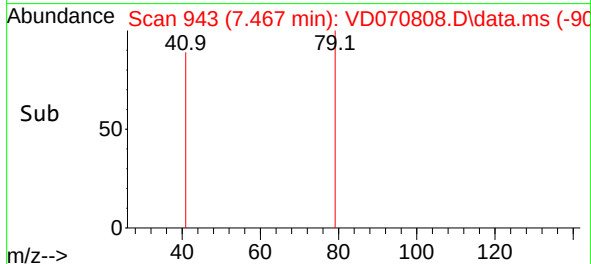
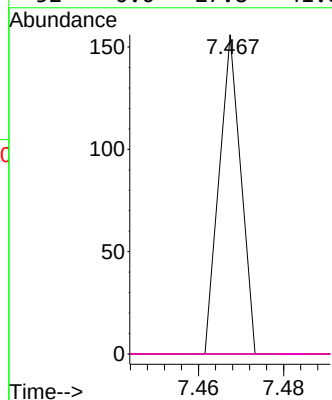
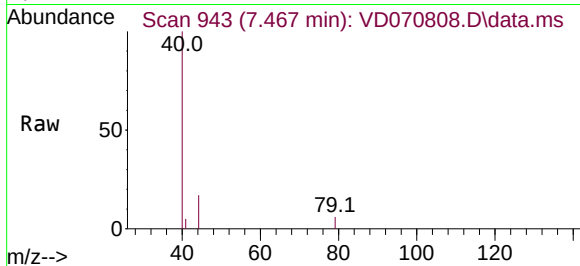




#41  
Methacrylonitrile  
Concen: 1.966 ug/l  
RT: 7.467 min Scan# 943  
Delta R.T. -0.047 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

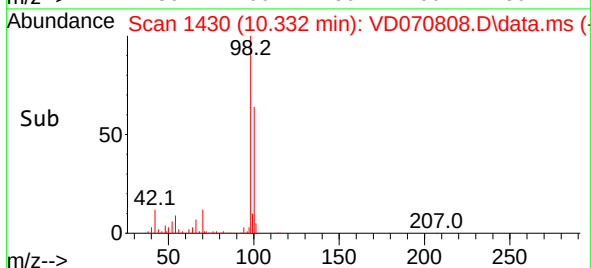
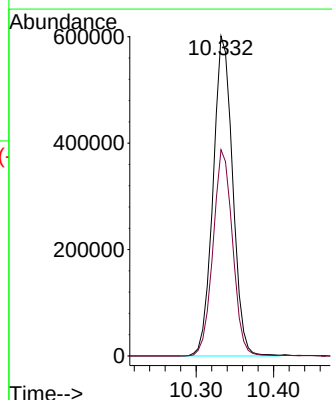
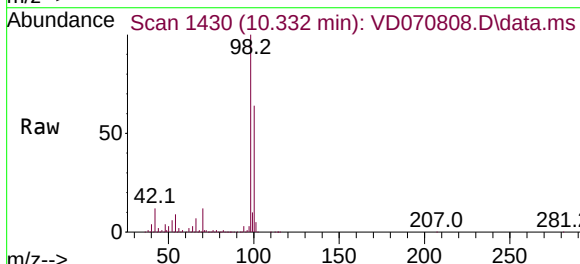
Instrument :  
MSVOA\_D  
ClientSampled :

Tgt Ion: 41 Resp: 55  
Ion Ratio Lower Upper  
41 100  
39 0.0 45.2 67.8#  
67 0.0 75.8 113.6#  
52 0.0 27.8 41.8#

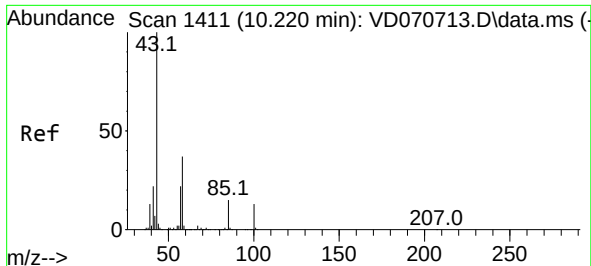


#50  
Toluene-d8  
Concen: 53.262 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Tgt Ion: 98 Resp: 1054945  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.2 78.4



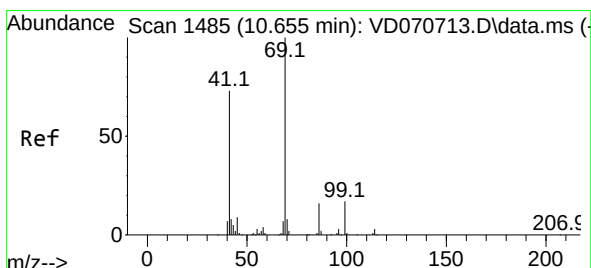
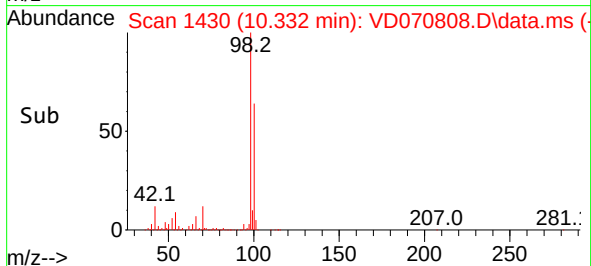
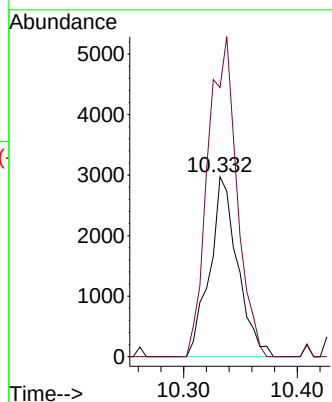
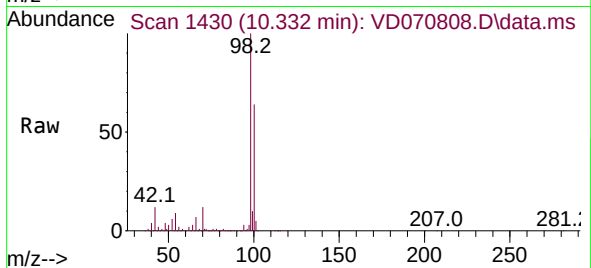




#51  
4-Methyl-2-Pentanone  
Concen: 1.348 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.112 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

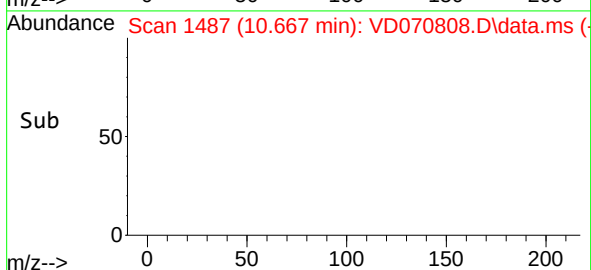
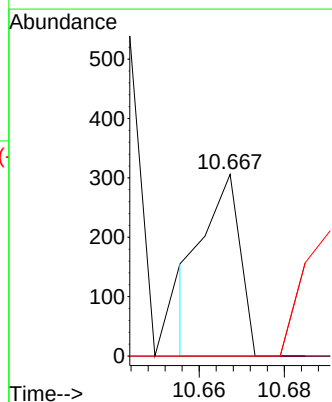
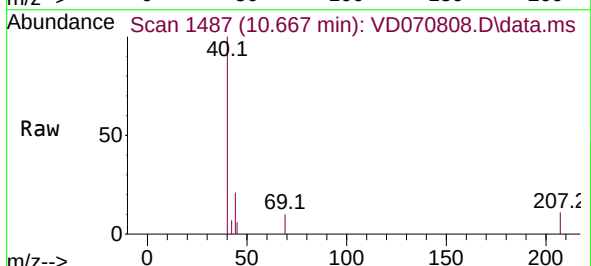
Instrument :  
MSVOA\_D  
ClientSampled :

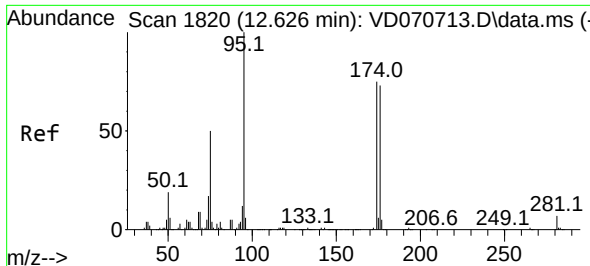
Tgt Ion: 43 Resp: 5048  
Ion Ratio Lower Upper  
43 100  
58 186.3 35.0 52.6#



#56  
Ethyl methacrylate  
Concen: 4.182 ug/l  
RT: 10.667 min Scan# 1487  
Delta R.T. 0.012 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Tgt Ion: 69 Resp: 179  
Ion Ratio Lower Upper  
69 100  
41 0.0 44.7 67.1#  
39 0.0 19.5 29.3#

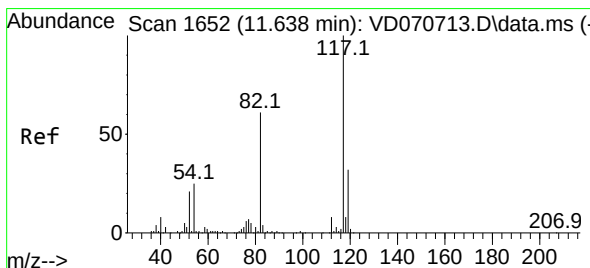
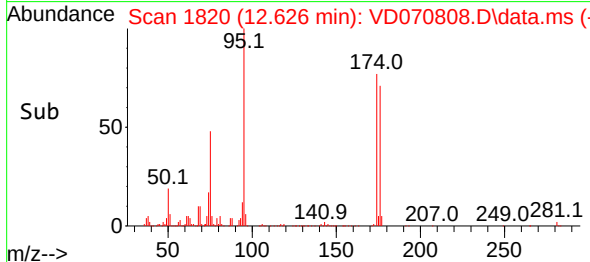
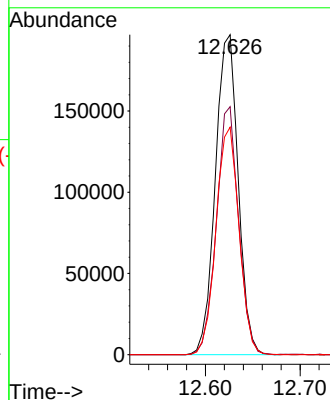
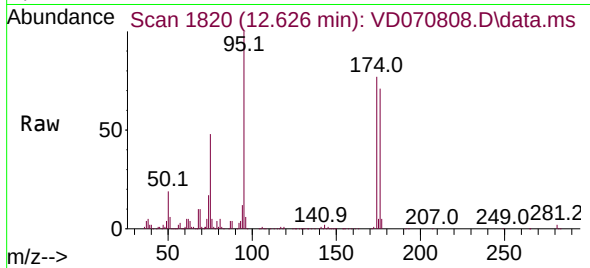




#62  
4-Bromofluorobenzene  
Concen: 48.355 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

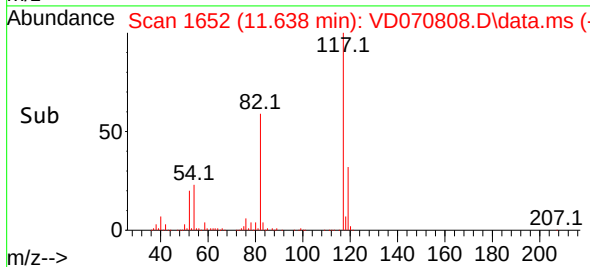
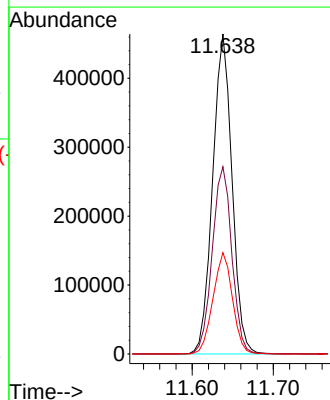
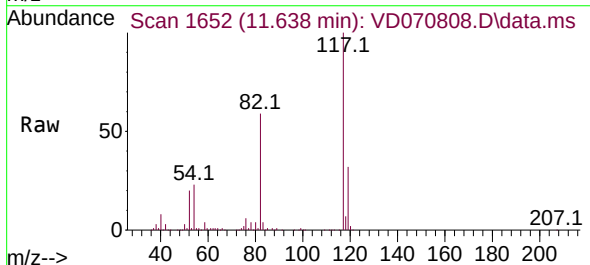
Instrument :  
MSVOA\_D  
ClientSampled :

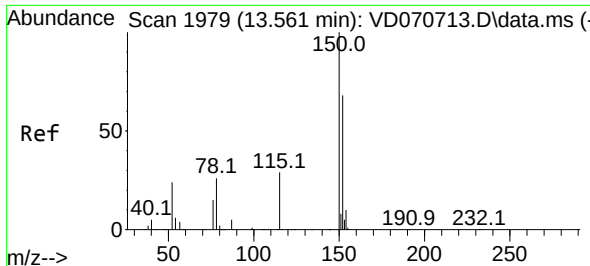
Tgt Ion: 95 Resp: 329785  
Ion Ratio Lower Upper  
95 100  
174 75.2 0.0 138.0  
176 72.0 0.0 135.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Tgt Ion: 117 Resp: 768425  
Ion Ratio Lower Upper  
117 100  
82 58.5 45.4 68.2  
119 31.7 24.7 37.1

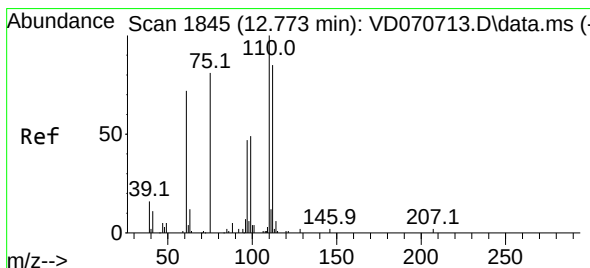
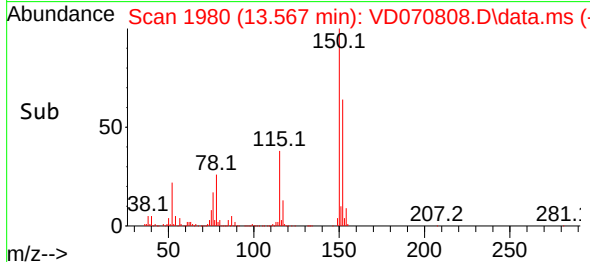
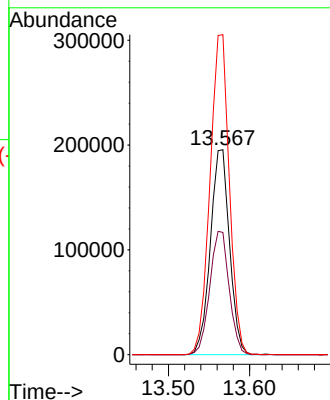
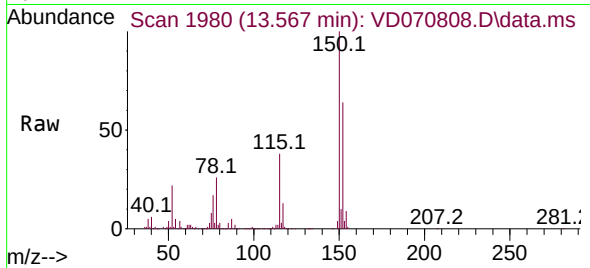




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.567 min Scan# 1980  
 Delta R.T. 0.006 min  
 Lab File: VD070808.D  
 Acq: 21 Oct 2021 18:44

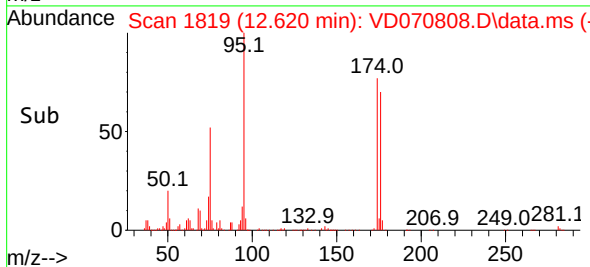
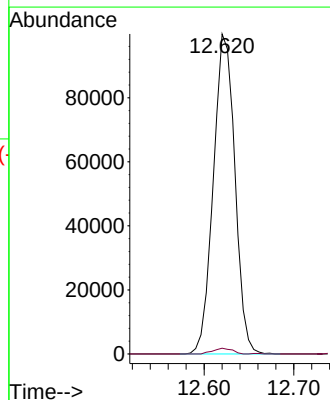
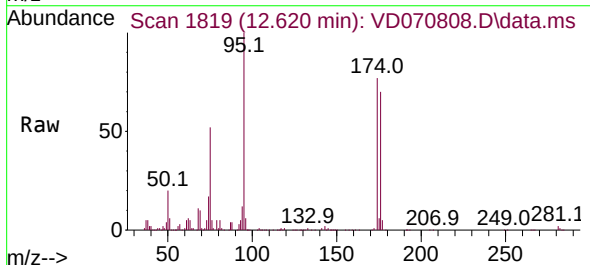
Instrument :  
 MSVOA\_D  
 ClientSampled :

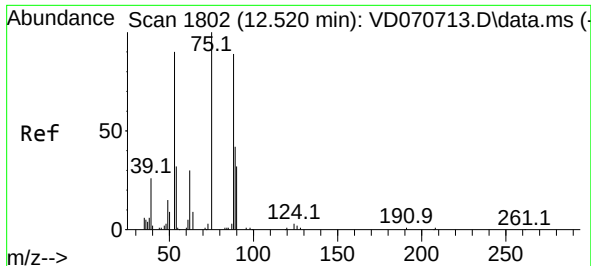
Tgt Ion:152 Resp: 321371  
 Ion Ratio Lower Upper  
 152 100  
 115 60.8 31.9 95.7  
 150 156.6 0.0 350.0



#76  
 1,2,3-Trichloropropane  
 Concen: 60.085 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. -0.153 min  
 Lab File: VD070808.D  
 Acq: 21 Oct 2021 18:44

Tgt Ion: 75 Resp: 166828  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 0.0 0.0#

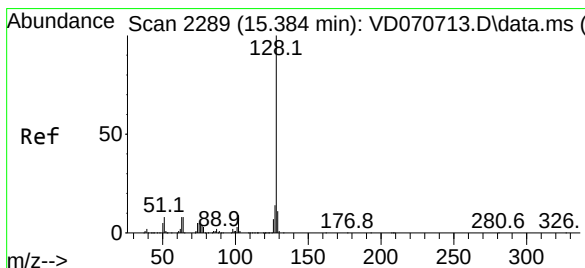
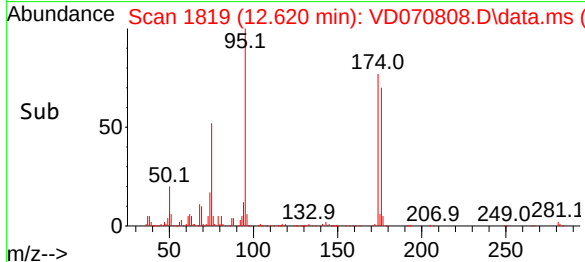
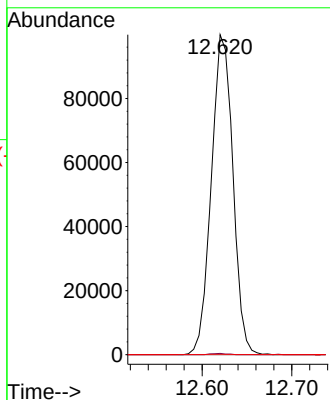
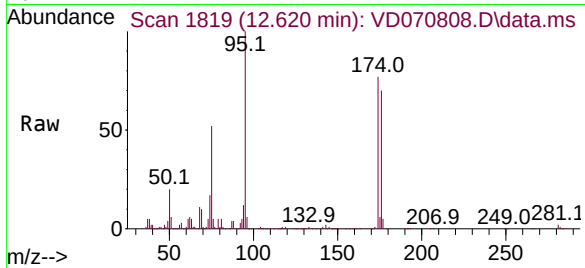




#81  
trans-1,4-Dichloro-2-butene  
Concen: 131.606 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Instrument :  
MSVOA\_D  
ClientSampled :

Tgt Ion: 75 Resp: 166828  
Ion Ratio Lower Upper  
75 100  
53 0.3 64.5 96.7#  
89 0.0 35.3 52.9#



#95  
Naphthalene  
Concen: 4.812 ug/l  
RT: 15.391 min Scan# 2290  
Delta R.T. 0.007 min  
Lab File: VD070808.D  
Acq: 21 Oct 2021 18:44

Tgt Ion:128 Resp: 218  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.9 16.3#  
129 0.0 8.6 12.8#

