

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102221\  
 Data File : VD070820.D  
 Acq On : 22 Oct 2021 12:54  
 Operator : VA/SY  
 Sample : M4309-02  
 Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Oct 23 04:10:38 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

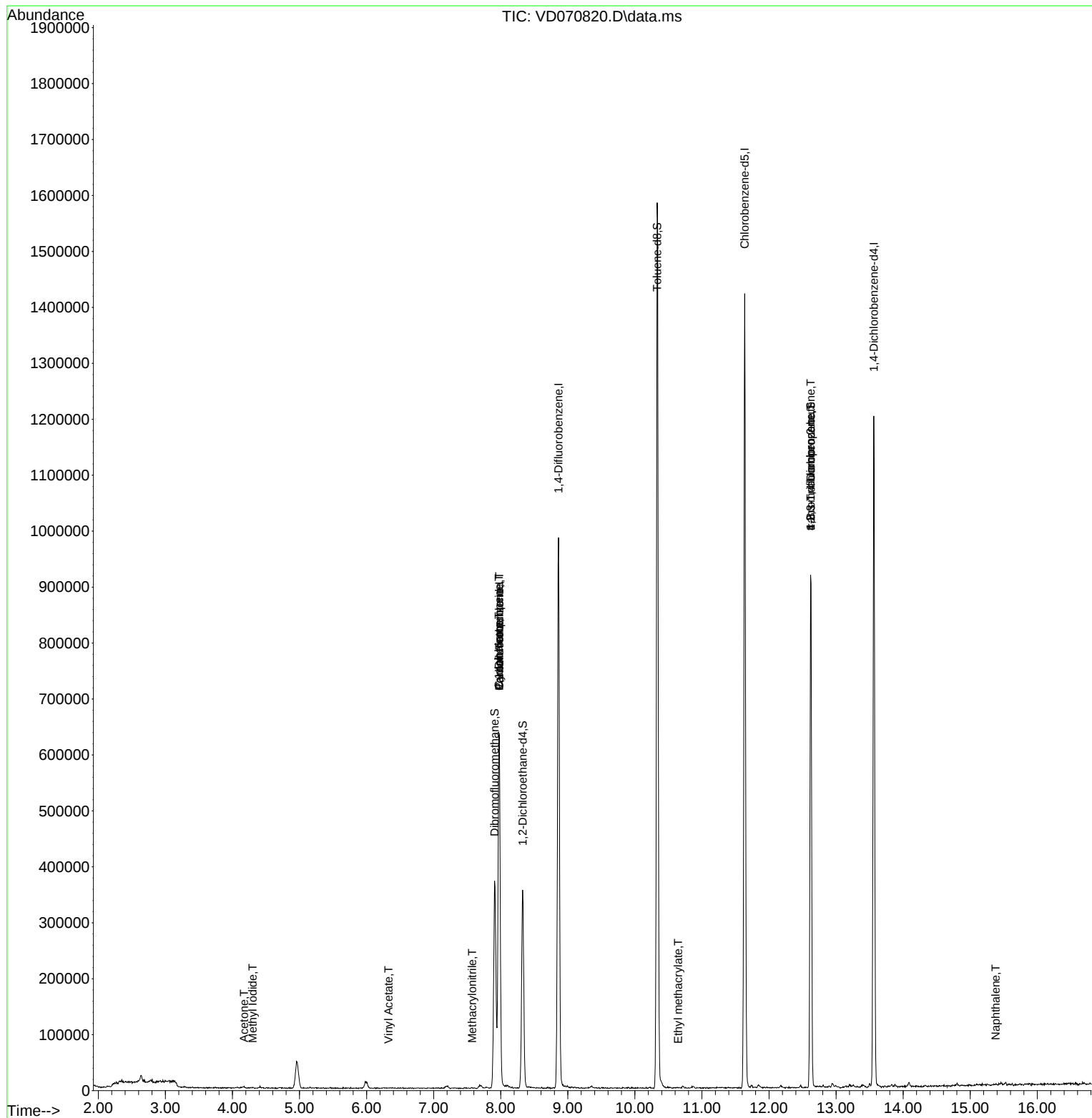
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 451005   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 780826   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 760626   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 297890   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 281340   | 52.667    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 105.340% |          |
| 35) Dibromofluoromethane      | 7.909  | 113   | 262115   | 52.426    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 104.860% |          |
| 50) Toluene-d8                | 10.332 | 98    | 1052408  | 54.912    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 109.820% |          |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 316019   | 47.887    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 95.780%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 10) Methyl Iodide             | 4.303  | 142   | 511      | 3.405     | ug/l #     | 38       |
| 16) Acetone                   | 4.173  | 43    | 4333     | 3.363     | ug/l #     | 82       |
| 20) Methylene Chloride        | 4.962  | 84    | 35753    | Below Cal |            | 94       |
| 23) Vinyl Acetate             | 6.326  | 43    | 122      | 16.341    | ug/l #     | 69       |
| 31) Cyclohexane               | 7.973  | 56    | 13305    | 1.231     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 43164    | 4.962     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 46575    | 5.590     | ug/l #     | 17       |
| 41) Methacrylonitrile         | 7.573  | 41    | 127      | 1.997     | ug/l #     | 1        |
| 56) Ethyl methacrylate        | 10.644 | 69    | 202      | 4.187     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 162561   | 63.164    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 162561   | 138.348   | ug/l #     | 17       |
| 95) Naphthalene               | 15.379 | 128   | 2396     | 5.017     | ug/l #     | 75       |
| -----                         |        |       |          |           |            |          |

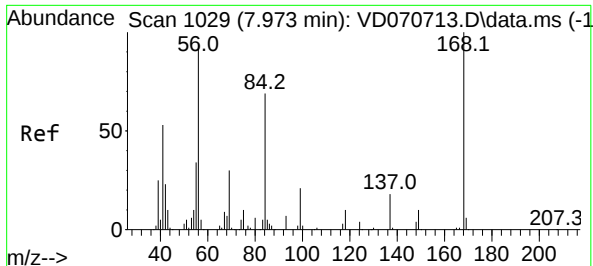
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102221\  
Data File : VD070820.D  
Acq On : 22 Oct 2021 12:54  
Operator : VA/SY  
Sample : M4309-02  
Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Oct 23 04:10:38 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

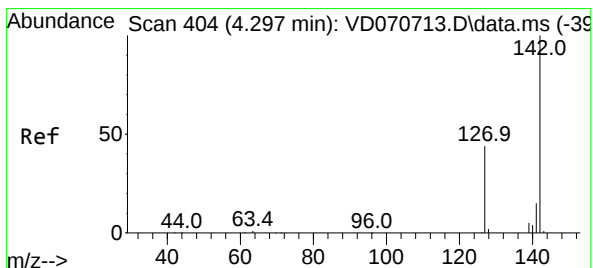
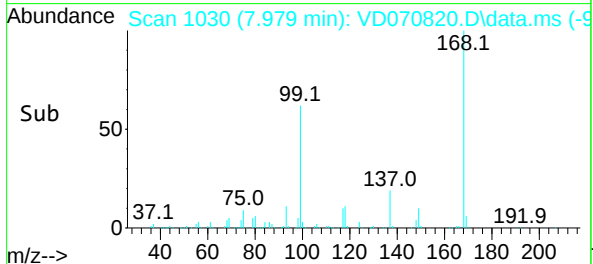
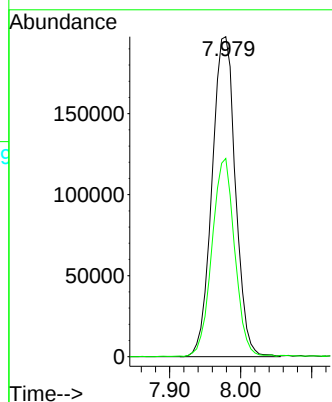
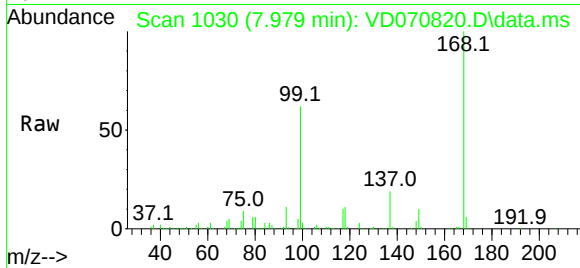




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.006 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

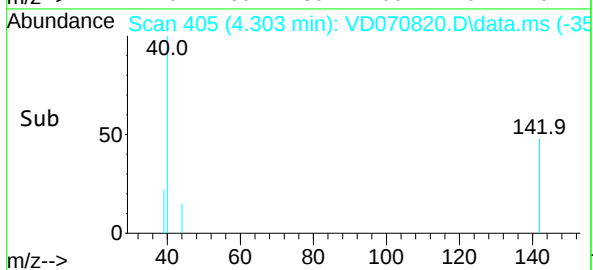
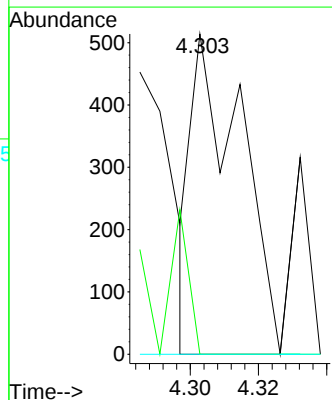
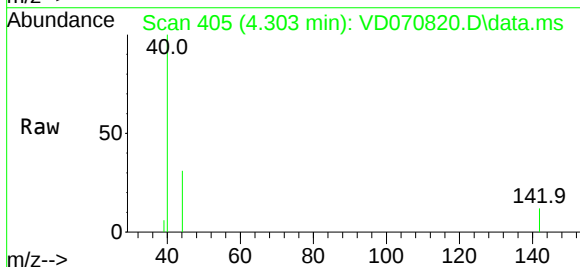
Instrument :  
MSVOA\_D  
ClientSampleId :

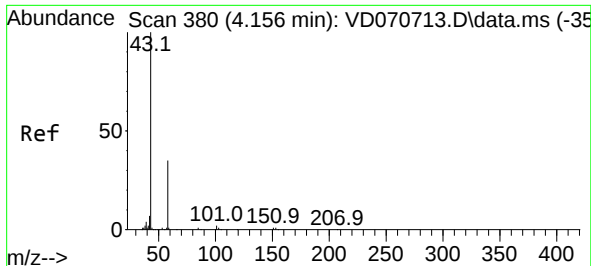
Tgt Ion:168 Resp: 451005  
Ion Ratio Lower Upper  
168 100  
99 61.7 51.4 77.0



#10  
Methyl Iodide  
Concen: 3.405 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. 0.006 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

Tgt Ion:142 Resp: 511  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.5 56.3#  
141 0.0 12.1 18.1#

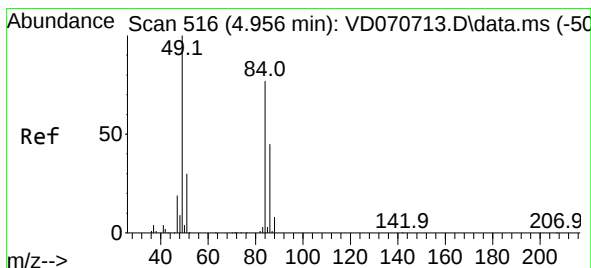
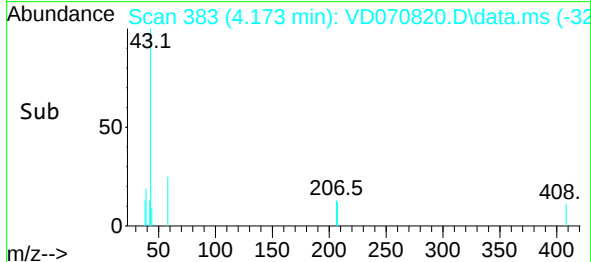
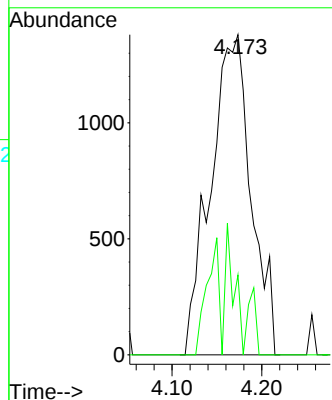
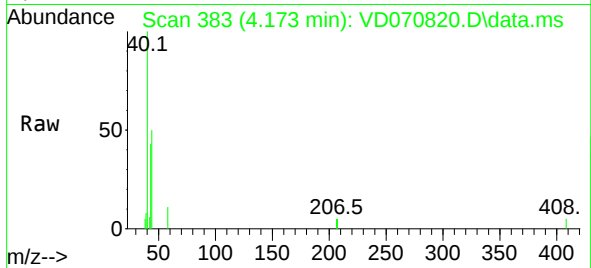




#16  
Acetone  
Concen: 3.363 ug/l  
RT: 4.173 min Scan# 383  
Delta R.T. 0.018 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

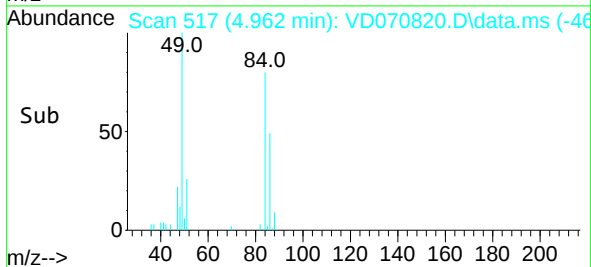
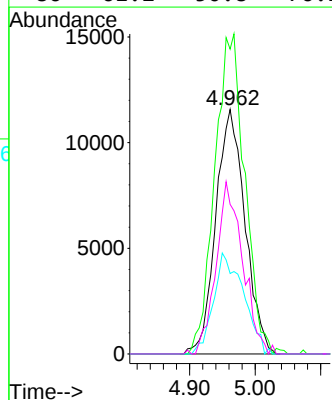
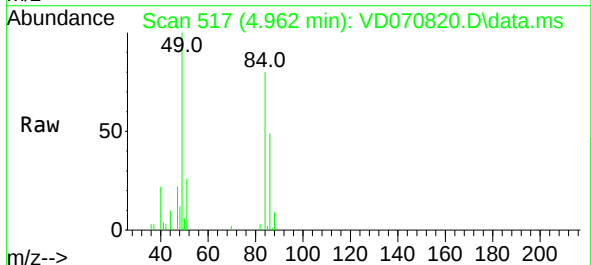
Instrument :  
MSVOA\_D  
ClientSampleId :

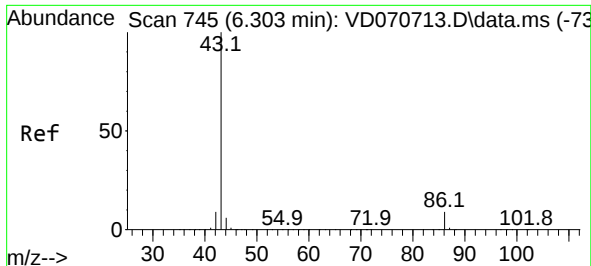
Tgt Ion: 43 Resp: 4333  
Ion Ratio Lower Upper  
43 100  
58 24.9 28.2 42.2#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 517  
Delta R.T. 0.006 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

Tgt Ion: 84 Resp: 35753  
Ion Ratio Lower Upper  
84 100  
49 124.7 91.4 137.2  
51 33.0 26.7 40.1  
86 61.2 50.8 76.2

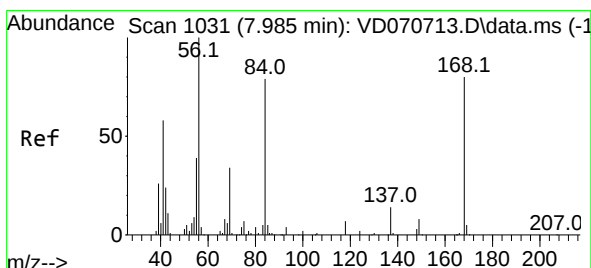
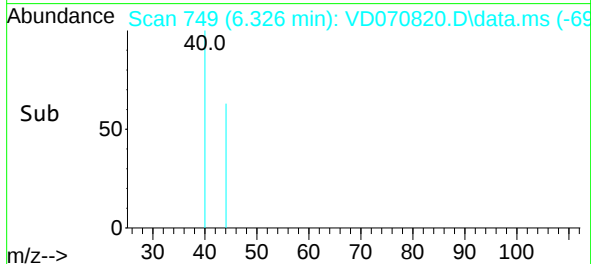
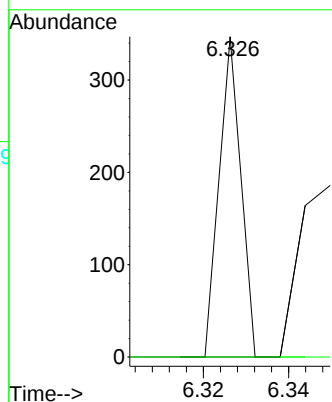
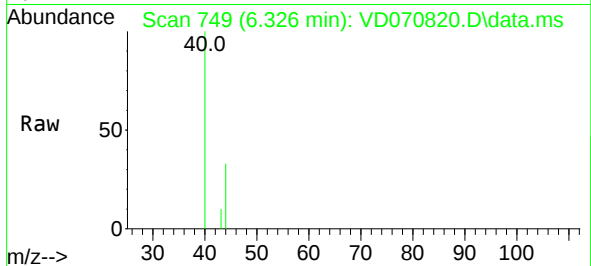




#23  
 Vinyl Acetate  
 Concen: 16.341 ug/l  
 RT: 6.326 min Scan# 749  
 Delta R.T. 0.023 min  
 Lab File: VD070820.D  
 Acq: 22 Oct 2021 12:54

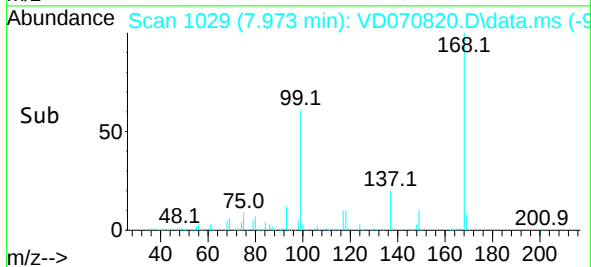
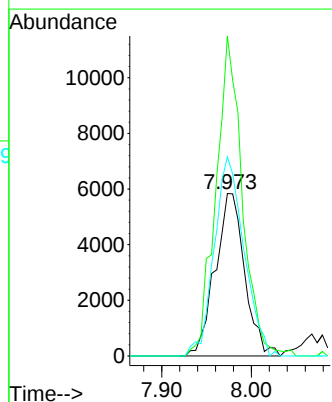
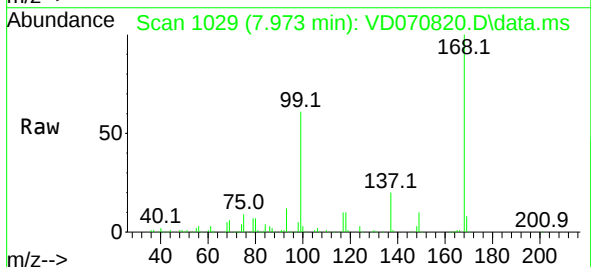
Instrument :  
 MSVOA\_D  
 ClientSampled :

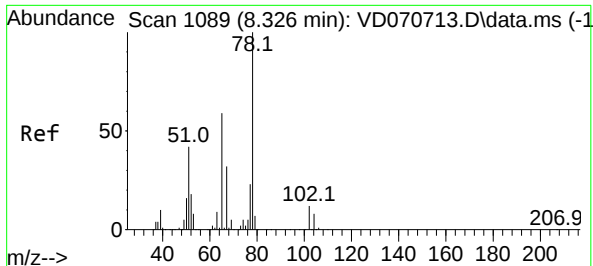
Tgt Ion: 43 Resp: 122  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 9.8 14.6#



#31  
 Cyclohexane  
 Concen: 1.231 ug/l  
 RT: 7.973 min Scan# 1029  
 Delta R.T. -0.012 min  
 Lab File: VD070820.D  
 Acq: 22 Oct 2021 12:54

Tgt Ion: 56 Resp: 13305  
 Ion Ratio Lower Upper  
 56 100  
 69 197.1 27.4 41.2#  
 84 122.7 73.6 110.4#

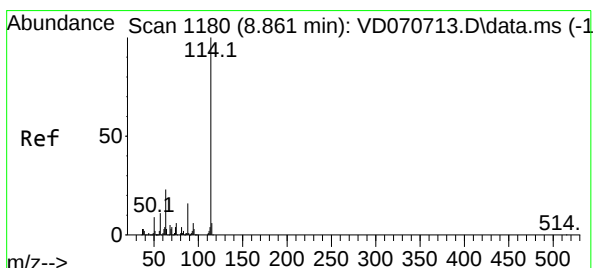
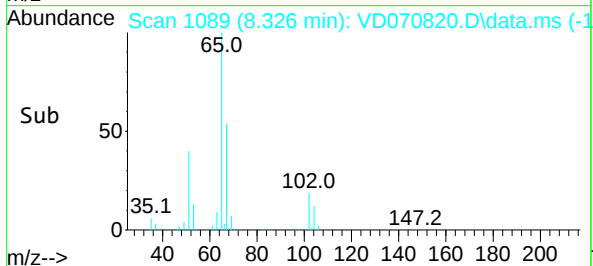
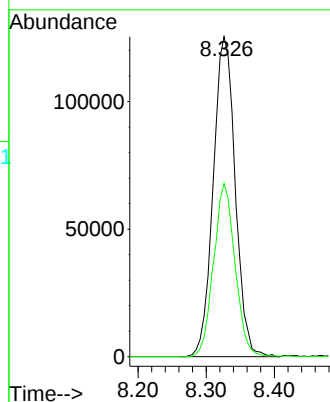
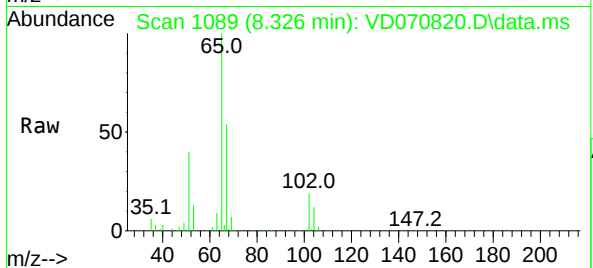




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.667 ug/l  
 RT: 8.326 min Scan# 1089  
 Delta R.T. 0.000 min  
 Lab File: VD070820.D  
 Acq: 22 Oct 2021 12:54

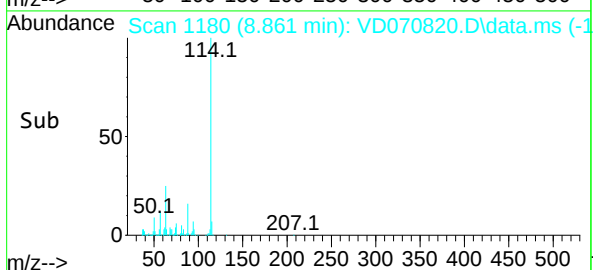
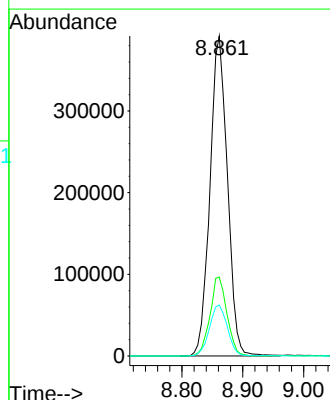
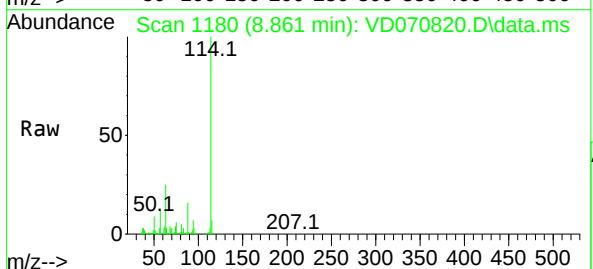
Instrument :  
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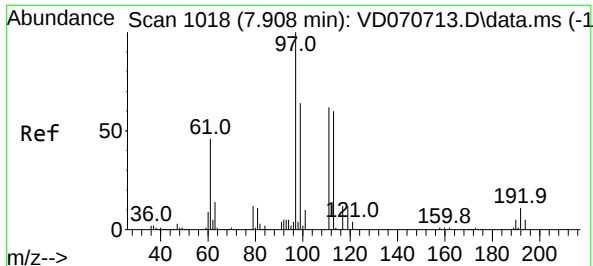
Tgt Ion: 65 Resp: 281340  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 110.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.861 min Scan# 1180  
 Delta R.T. 0.000 min  
 Lab File: VD070820.D  
 Acq: 22 Oct 2021 12:54

Tgt Ion:114 Resp: 780826  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 0.0 41.8  
 88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.426 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD070820.D

Acq: 22 Oct 2021 12:54

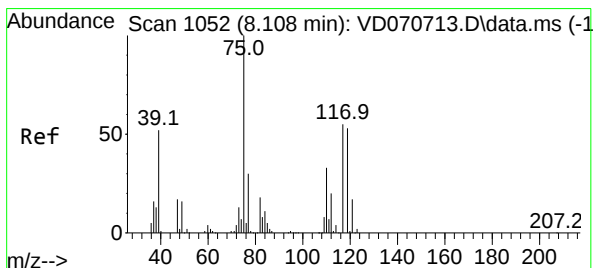
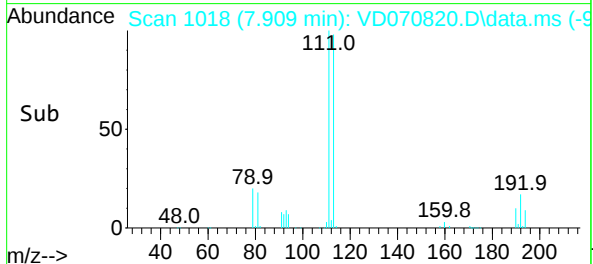
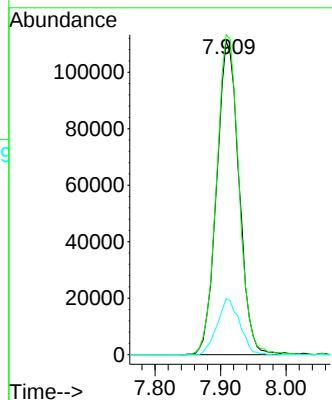
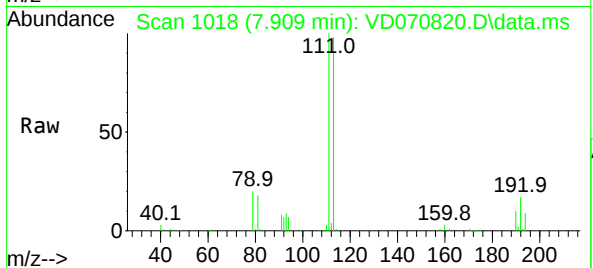
Tgt Ion:113 Resp: 262115

Ion Ratio Lower Upper

113 100

111 102.5 83.1 124.7

192 18.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.962 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD070820.D

Acq: 22 Oct 2021 12:54

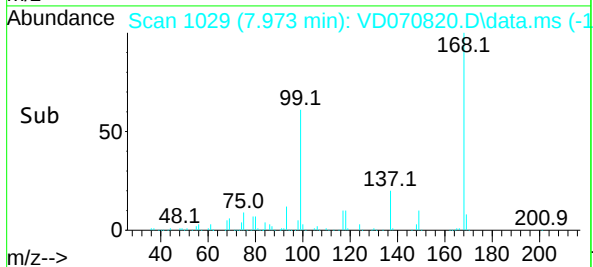
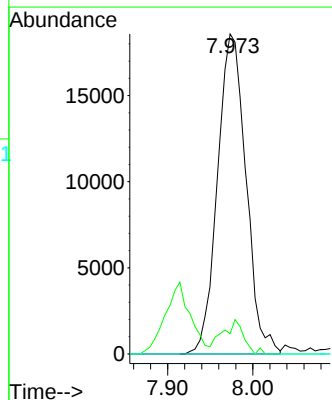
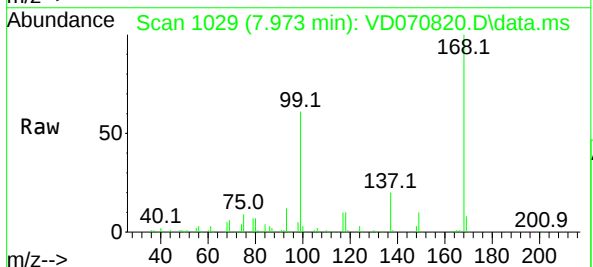
Tgt Ion: 75 Resp: 43164

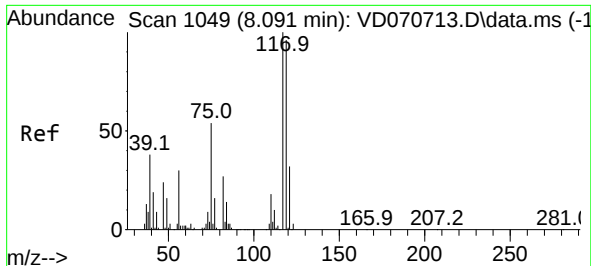
Ion Ratio Lower Upper

75 100

110 8.1 17.2 51.6#

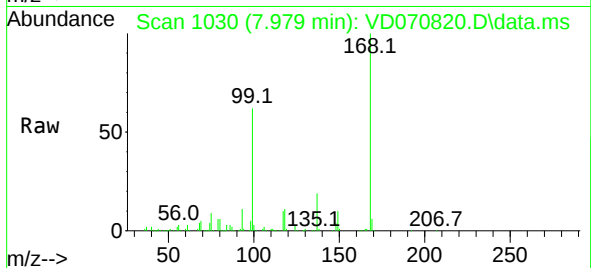
77 0.0 24.2 36.4#



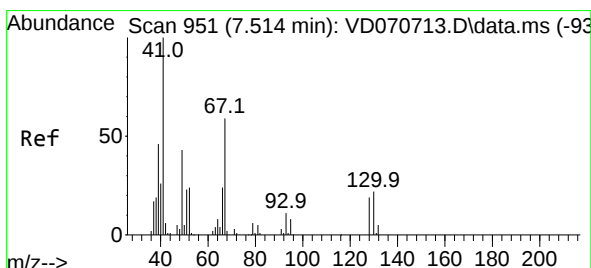
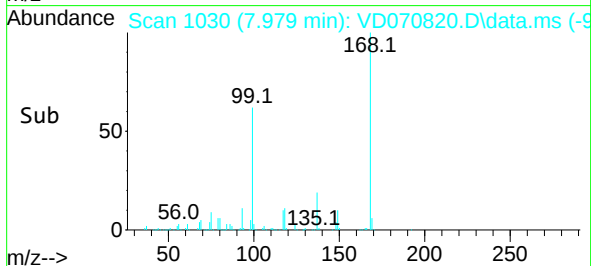
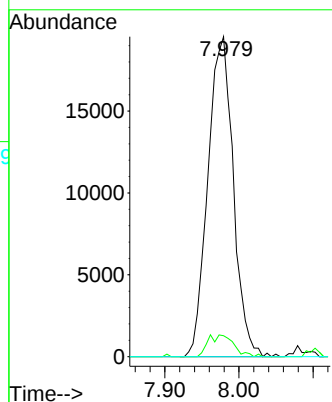


#38  
Carbon Tetrachloride  
Concen: 5.590 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.112 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

Instrument :  
MSVOA\_D  
ClientSampled :

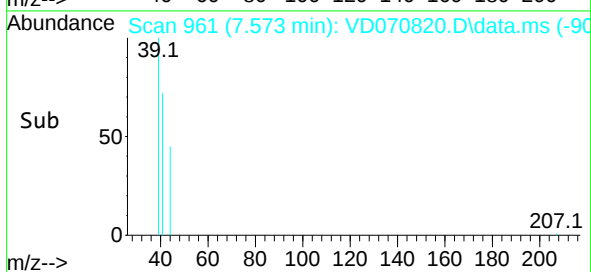
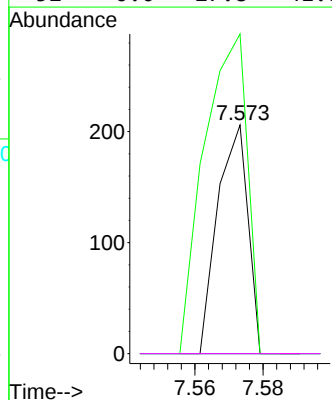
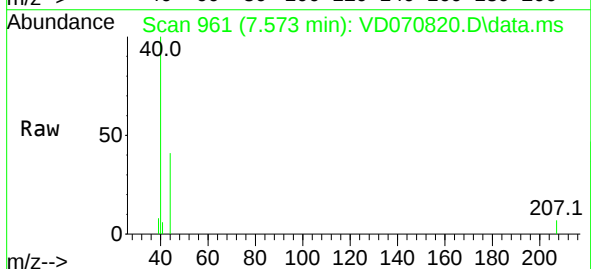


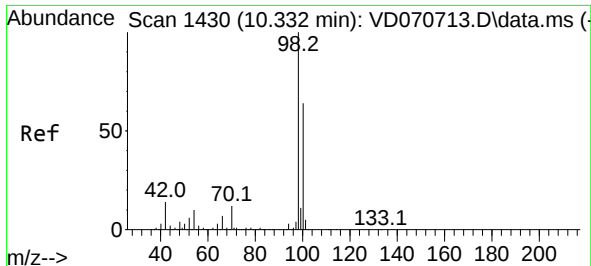
Tgt Ion:117 Resp: 46575  
Ion Ratio Lower Upper  
117 100  
119 6.6 77.4 116.0#  
121 0.0 25.4 38.0#



#41  
Methacrylonitrile  
Concen: 1.997 ug/l  
RT: 7.573 min Scan# 961  
Delta R.T. 0.059 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

Tgt Ion: 41 Resp: 127  
Ion Ratio Lower Upper  
41 100  
39 198.4 45.2 67.8#  
67 0.0 75.8 113.6#  
52 0.0 27.8 41.8#

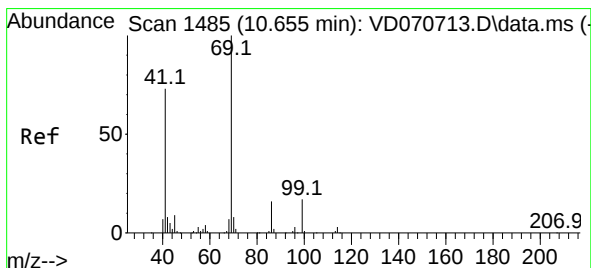
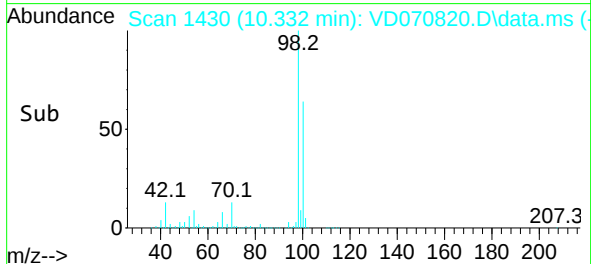
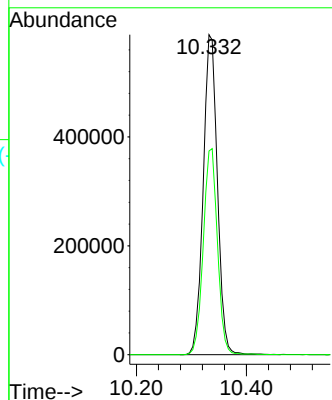
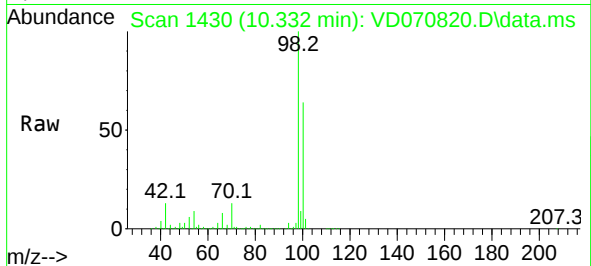




#50  
Toluene-d8  
Concen: 54.912 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

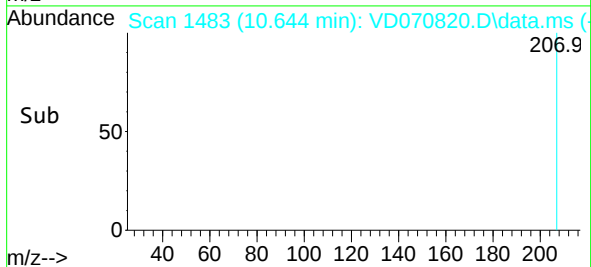
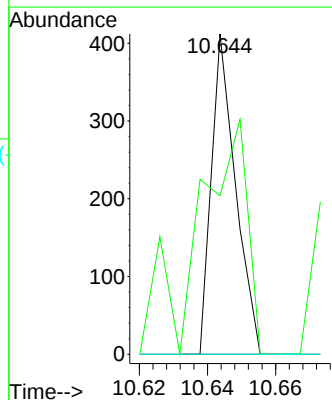
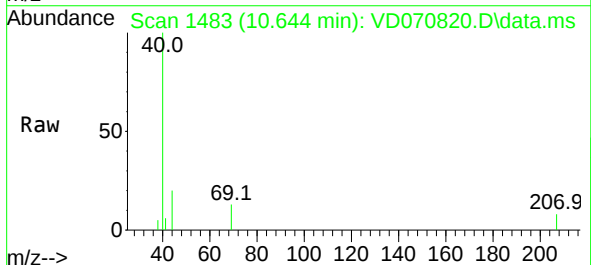
Instrument :  
MSVOA\_D  
ClientSampleId :

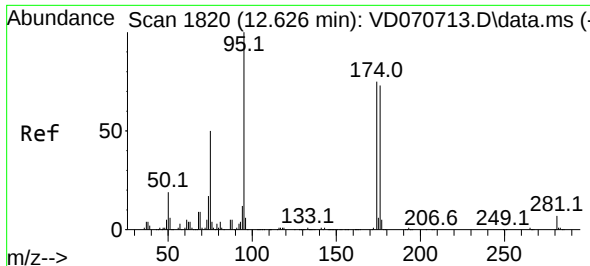
Tgt Ion: 98 Resp: 1052408  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.2 78.4



#56  
Ethyl methacrylate  
Concen: 4.187 ug/l  
RT: 10.644 min Scan# 1483  
Delta R.T. -0.011 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

Tgt Ion: 69 Resp: 202  
Ion Ratio Lower Upper  
69 100  
41 154.0 44.7 67.1#  
39 0.0 19.5 29.3#

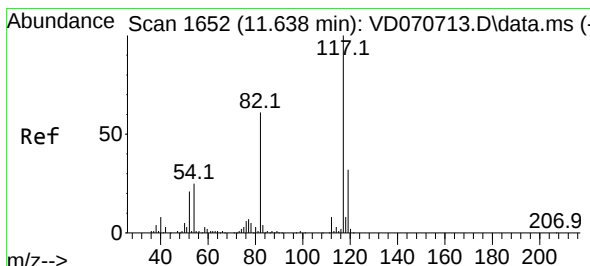
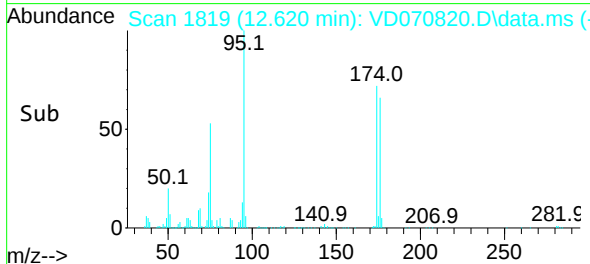
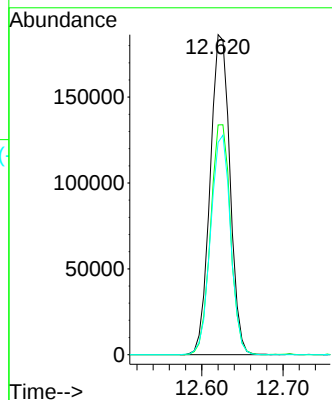
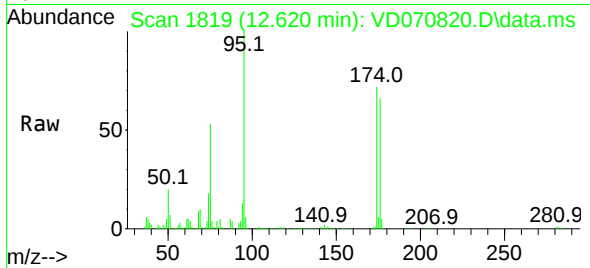




#62  
4-Bromofluorobenzene  
Concen: 47.887 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

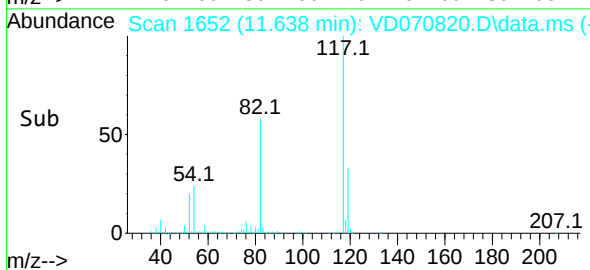
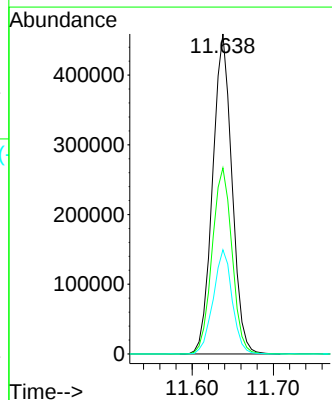
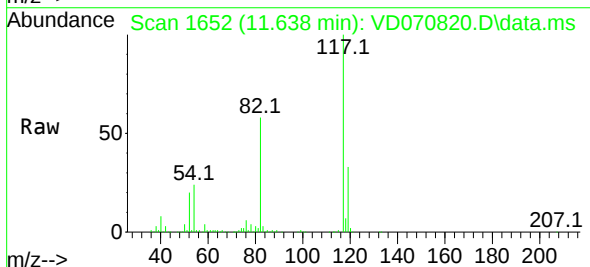
Instrument :  
MSVOA\_D  
ClientSampleId :

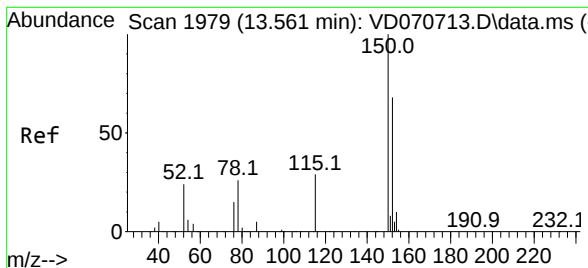
Tgt Ion: 95 Resp: 316019  
Ion Ratio Lower Upper  
95 100  
174 72.3 0.0 138.0  
176 68.8 0.0 135.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

Tgt Ion: 117 Resp: 760626  
Ion Ratio Lower Upper  
117 100  
82 58.1 45.4 68.2  
119 32.6 24.7 37.1

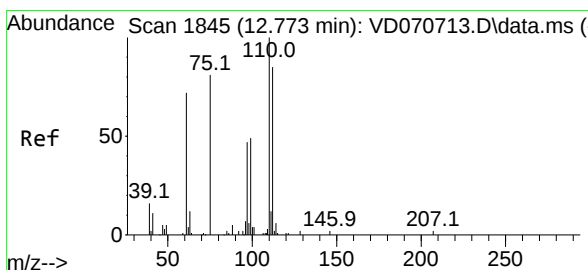
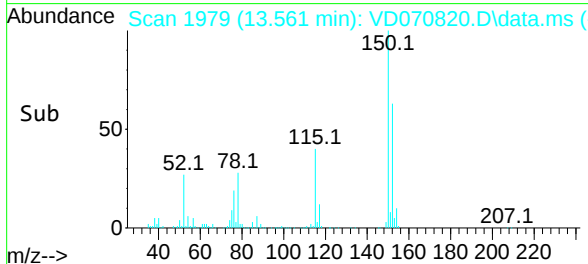
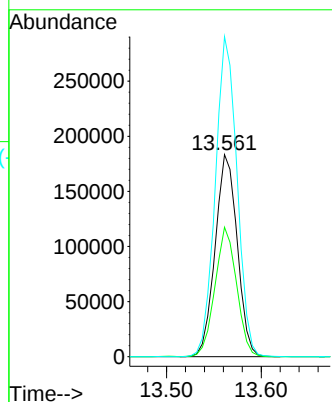
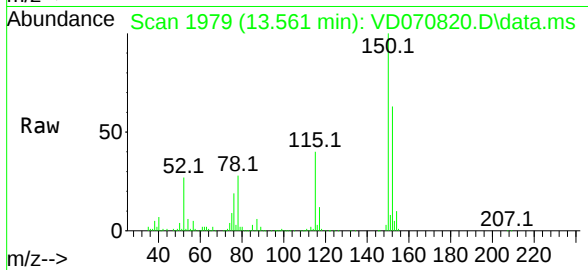




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VD070820.D  
 Acq: 22 Oct 2021 12:54

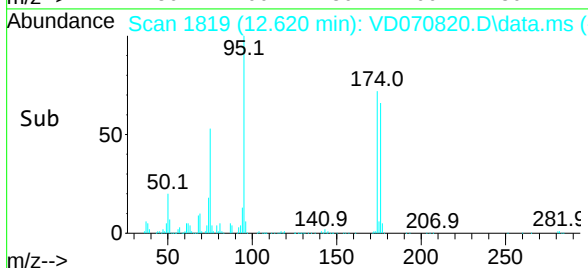
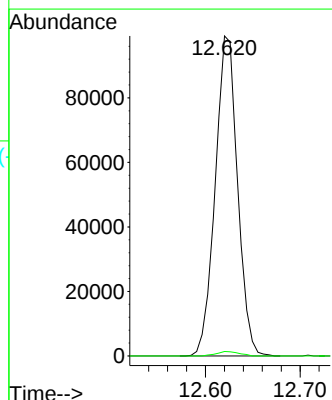
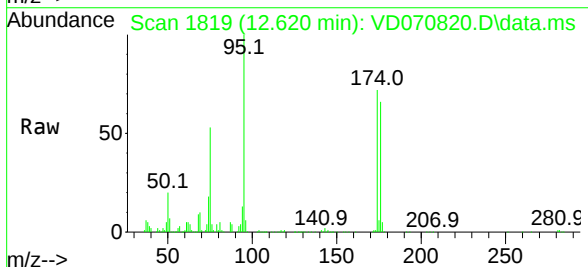
Instrument :  
 MSVOA\_D  
 ClientSampled :

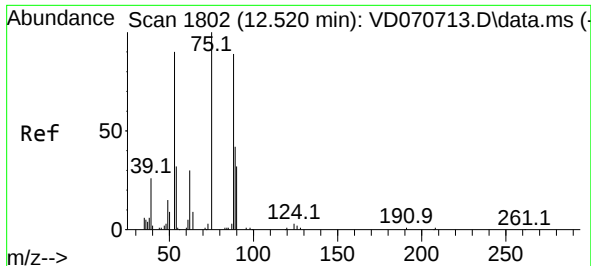
Tgt Ion:152 Resp: 297890  
 Ion Ratio Lower Upper  
 152 100  
 115 62.6 31.9 95.7  
 150 155.9 0.0 350.0



#76  
 1,2,3-Trichloropropane  
 Concen: 63.164 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. -0.153 min  
 Lab File: VD070820.D  
 Acq: 22 Oct 2021 12:54

Tgt Ion: 75 Resp: 162561  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#

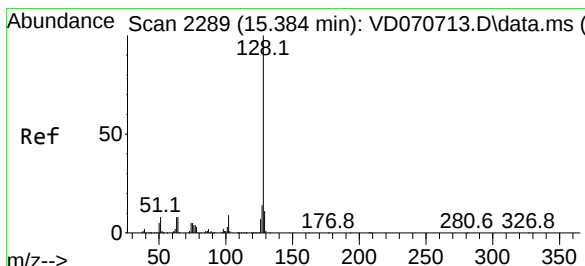
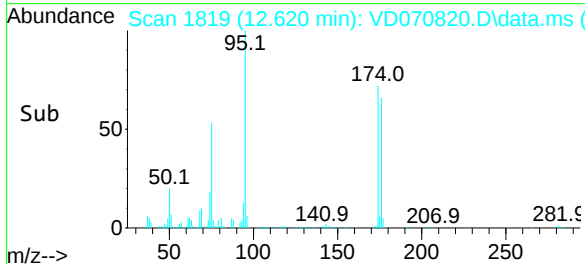
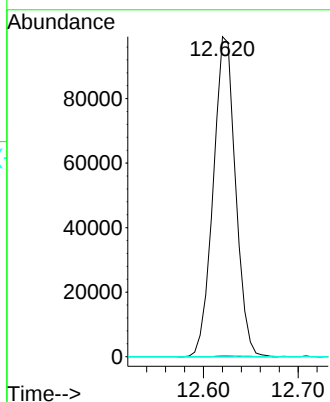
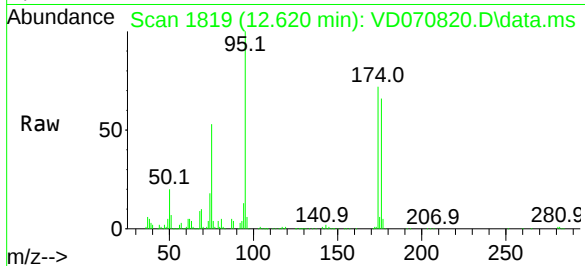




#81  
trans-1,4-Dichloro-2-butene  
Concen: 138.348 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 162561  
Ion Ratio Lower Upper  
75 100  
53 0.4 64.5 96.7#  
89 0.0 35.3 52.9#



#95  
Naphthalene  
Concen: 5.017 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.005 min  
Lab File: VD070820.D  
Acq: 22 Oct 2021 12:54

Tgt Ion:128 Resp: 2396  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.9 16.3#  
129 5.1 8.6 12.8#

