

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071321\  
 Data File : VD069676.D  
 Acq On : 13 Jul 2021 18:01  
 Operator : VA/SY  
 Sample : M3001-03  
 Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

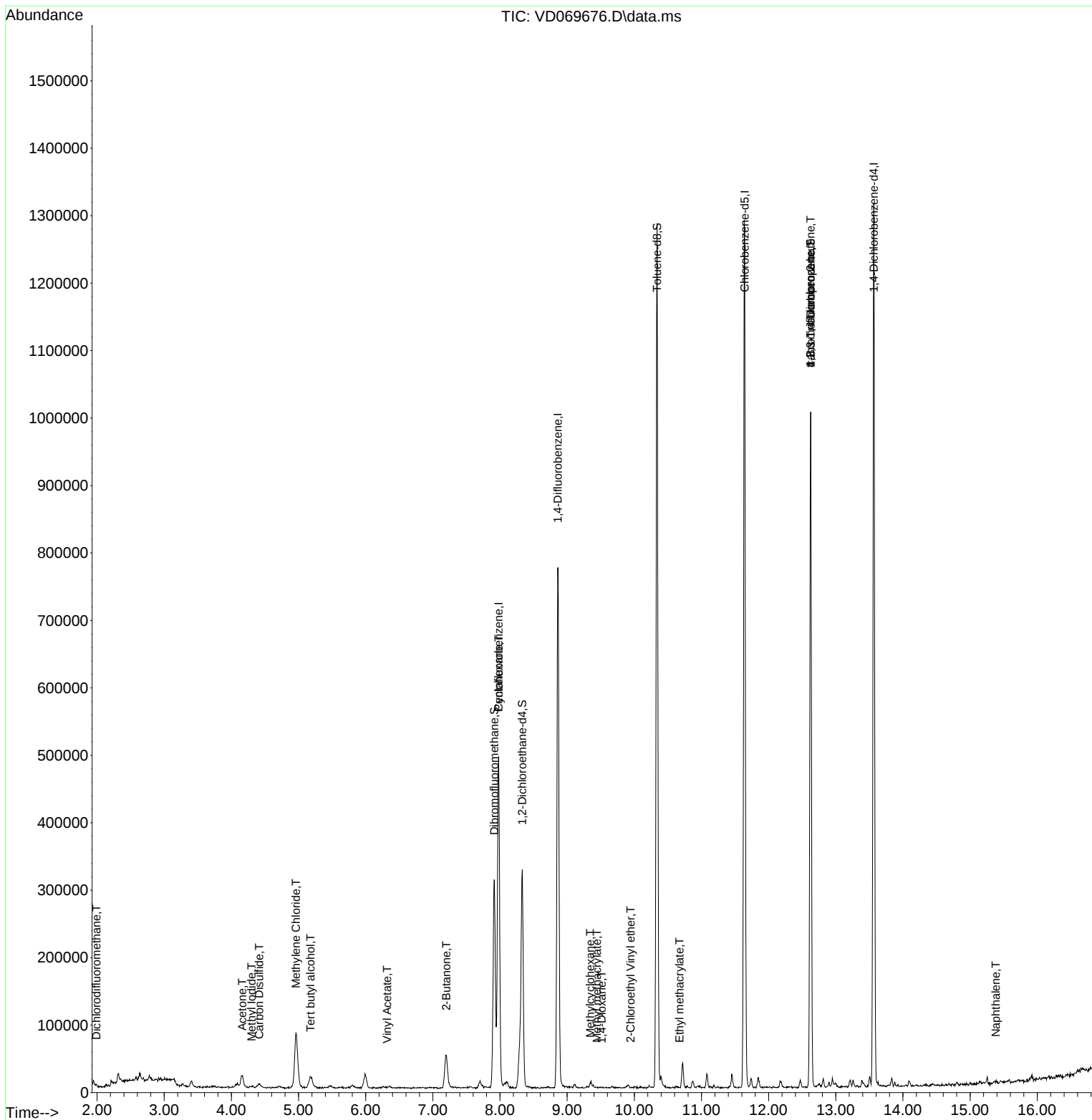
Instrument :  
 MSVOA\_D  
 ClientSampleId :

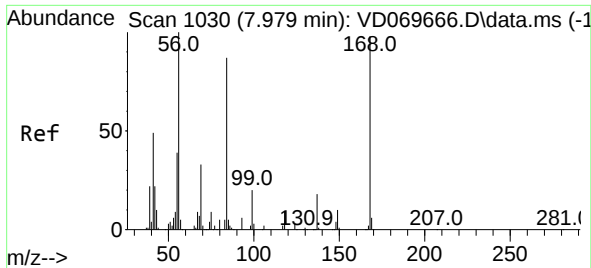
Quant Time: Jul 14 06:08:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071321S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 14 06:00:31 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 344006   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 664481   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.643 | 117   | 751327   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 337567   | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332  | 65    | 248728   | 57.906    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 115.820% |
| 35) Dibromofluoromethane      | 7.914  | 113   | 222847   | 49.989    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 99.980%  |
| 50) Toluene-d8                | 10.338 | 98    | 857215   | 49.496    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 99.000%  |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 346293   | 59.954    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 119.900% |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.991  | 85    | 2147     | 1.212     | ug/l   | 81       |
| 5) Bromomethane               | 2.779  | 94    | 5174     | Below Cal | #      | 68       |
| 10) Methyl Iodide             | 4.303  | 142   | 1890     | 2.889     | ug/l   | 91       |
| 11) Tert butyl alcohol        | 5.179  | 59    | 16700    | 29.099    | ug/l # | 79       |
| 16) Acetone                   | 4.162  | 43    | 33929    | 47.432    | ug/l   | 96       |
| 17) Carbon Disulfide          | 4.414  | 76    | 10546    | 1.225     | ug/l # | 93       |
| 18) Methyl Acetate            | 4.709  | 43    | 254      | Below Cal | #      | 72       |
| 20) Methylene Chloride        | 4.961  | 84    | 64437    | 6.237     | ug/l   | 92       |
| 23) Vinyl Acetate             | 6.320  | 43    | 258      | 15.461    | ug/l # | 72       |
| 25) 2-Butanone                | 7.203  | 43    | 6828     | 6.726     | ug/l # | 83       |
| 31) Cyclohexane               | 7.979  | 56    | 12336    | 2.079     | ug/l # | 1        |
| 39) Methylcyclohexane         | 9.344  | 83    | 3631     | 2.384     | ug/l # | 80       |
| 48) Methyl methacrylate       | 9.444  | 41    | 296      | 1.220     | ug/l # | 28       |
| 49) 1,4-Dioxane               | 9.514  | 88    | 73       | 103.260   | ug/l # | 1        |
| 56) Ethyl methacrylate        | 10.673 | 69    | 237      | 1.715     | ug/l # | 72       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63    | 59       | 9.388     | ug/l # | 49       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 170367   | 51.951    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 170367   | 139.616   | ug/l # | 14       |
| 95) Naphthalene               | 15.384 | 128   | 2707     | 2.447     | ug/l # | 90       |
| -----                         |        |       |          |           |        |          |

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

Quant Time: Jul 14 06:08:02 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071321S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 14 06:00:31 2021  
Response via : Initial Calibration

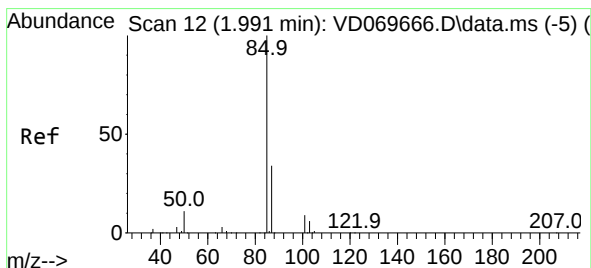
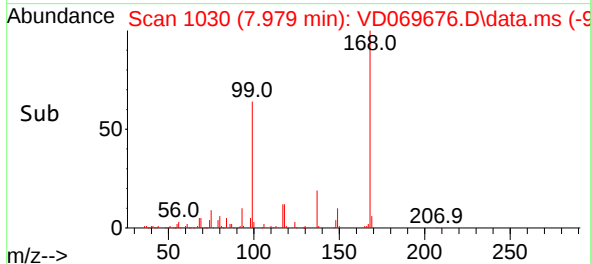
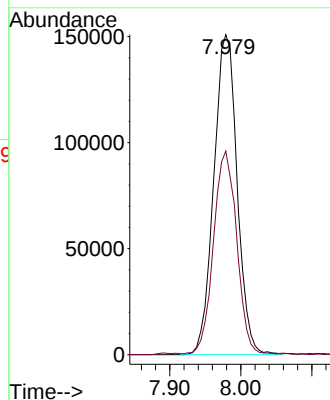
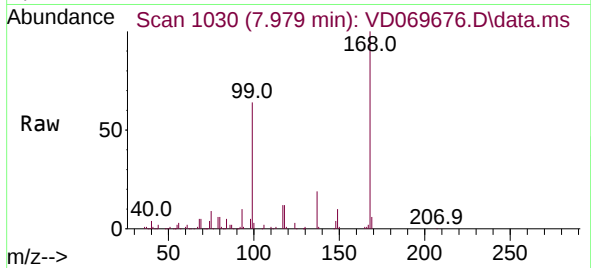




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

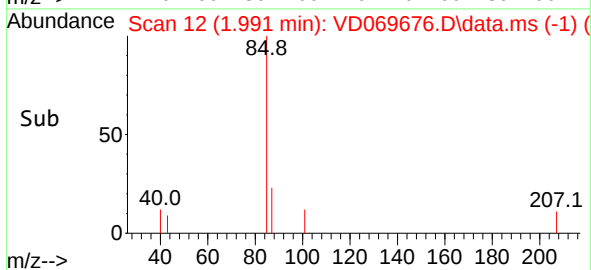
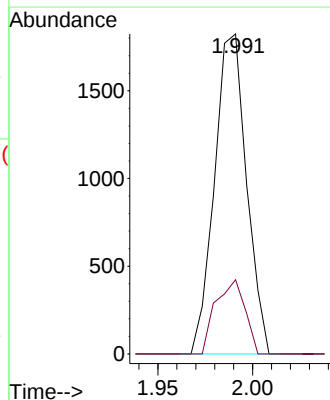
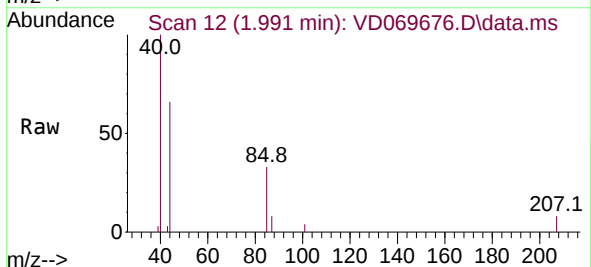
Instrument :  
MSVOA\_D  
ClientSampled :

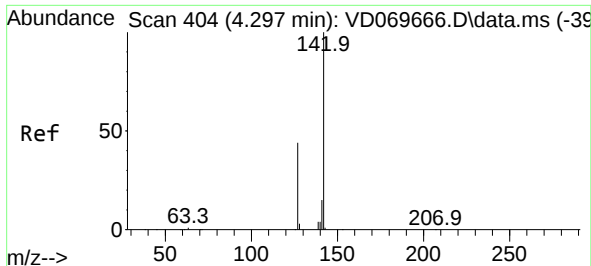
Tgt Ion:168 Resp: 344006  
Ion Ratio Lower Upper  
168 100  
99 63.3 51.8 77.6



#2  
Dichlorodifluoromethane  
Concen: 1.212 ug/l  
RT: 1.991 min Scan# 12  
Delta R.T. 0.000 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Tgt Ion: 85 Resp: 2147  
Ion Ratio Lower Upper  
85 100  
87 23.2 17.0 51.0

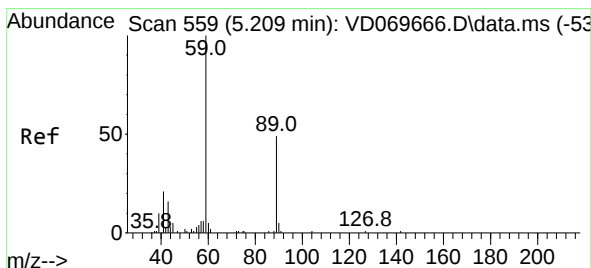
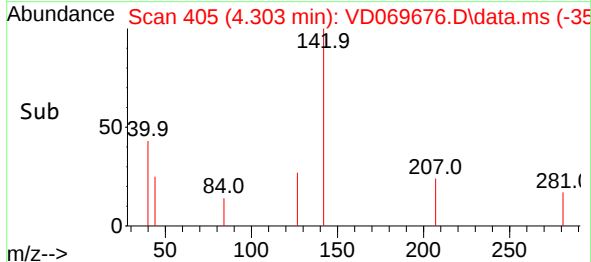
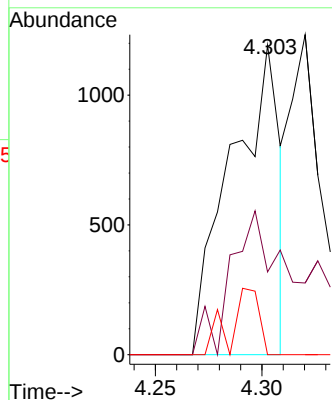
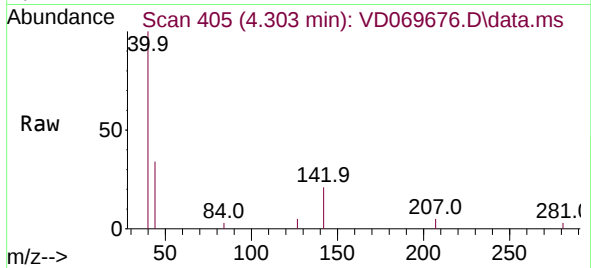




#10  
Methyl Iodide  
Concen: 2.889 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. 0.006 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

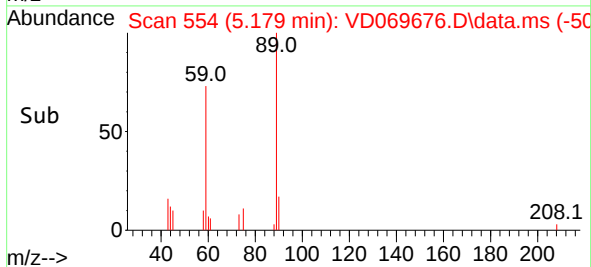
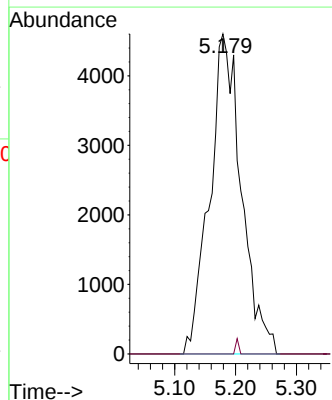
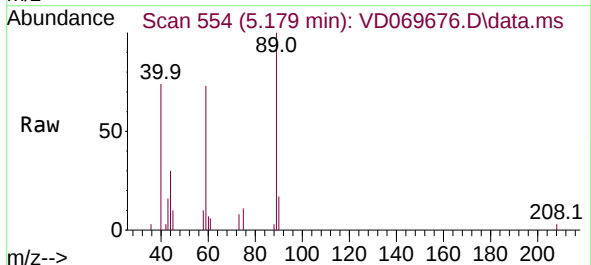
Instrument :  
MSVOA\_D  
ClientSampled :

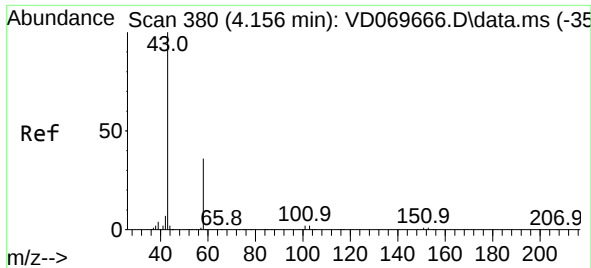
Tgt Ion:142 Resp: 1890  
Ion Ratio Lower Upper  
142 100  
127 52.3 36.1 54.1  
141 12.6 11.6 17.4



#11  
Tert butyl alcohol  
Concen: 29.099 ug/l  
RT: 5.179 min Scan# 554  
Delta R.T. -0.030 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Tgt Ion: 59 Resp: 16700  
Ion Ratio Lower Upper  
59 100  
57 0.0 5.7 8.5#

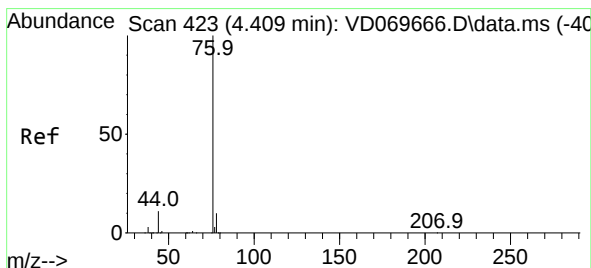
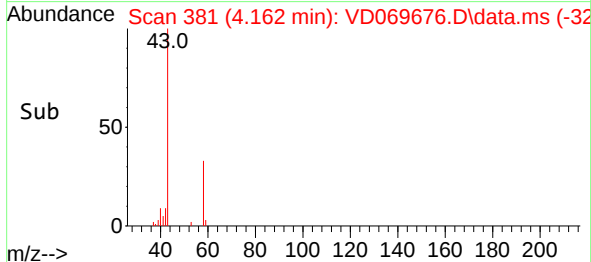
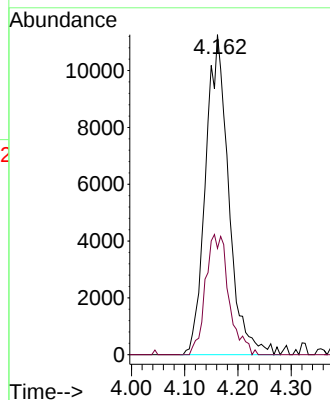
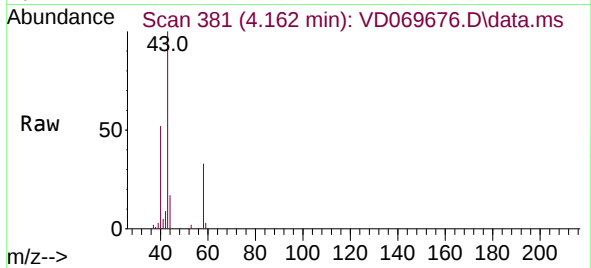




#16  
Acetone  
Concen: 47.432 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

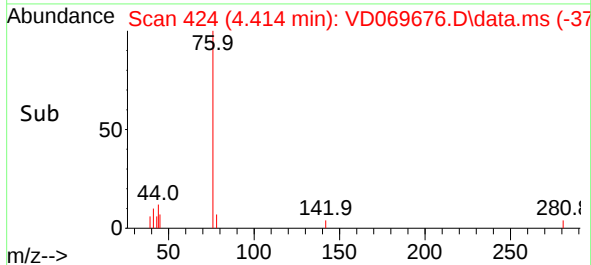
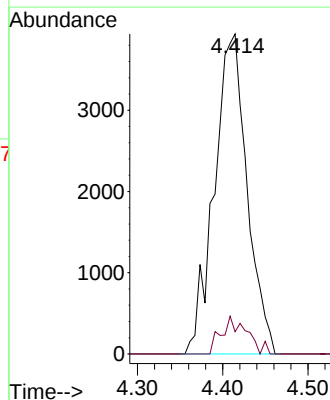
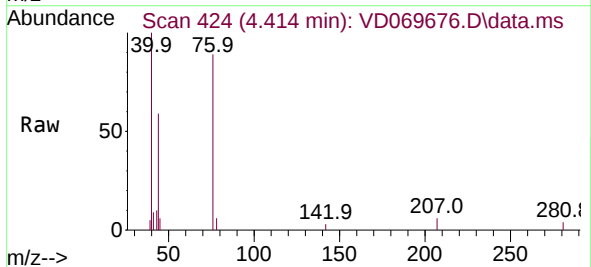
Instrument :  
MSVOA\_D  
ClientSampleId :

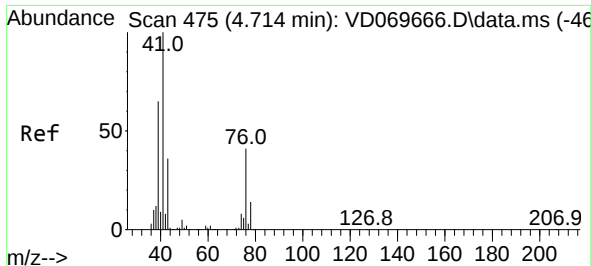
Tgt Ion: 43 Resp: 33929  
Ion Ratio Lower Upper  
43 100  
58 33.3 28.6 42.8



#17  
Carbon Disulfide  
Concen: 1.225 ug/l  
RT: 4.414 min Scan# 424  
Delta R.T. 0.005 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Tgt Ion: 76 Resp: 10546  
Ion Ratio Lower Upper  
76 100  
78 7.0 7.6 11.4#

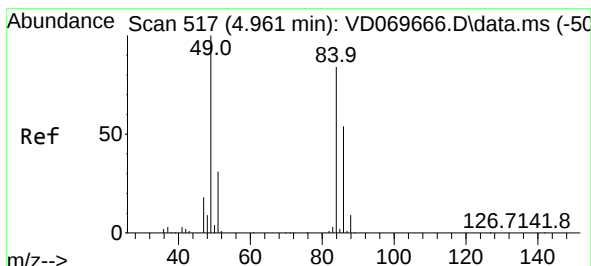
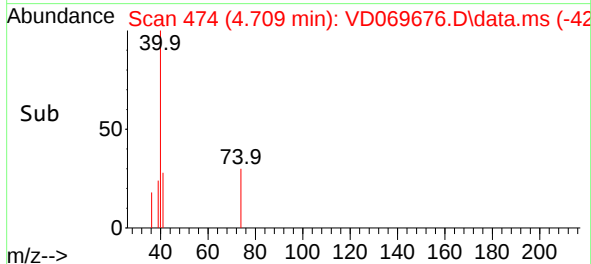
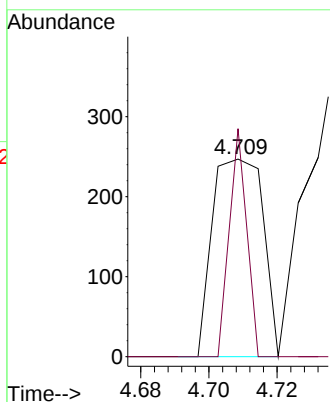
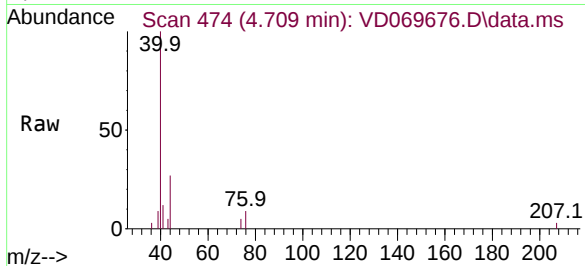




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.709 min Scan# 474  
Delta R.T. -0.005 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

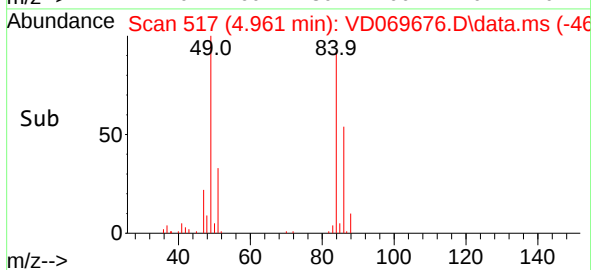
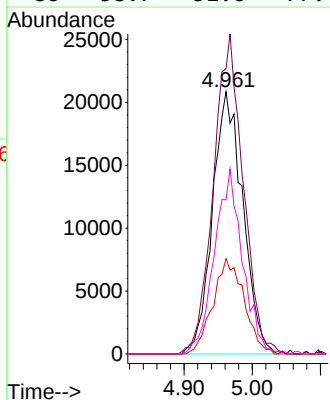
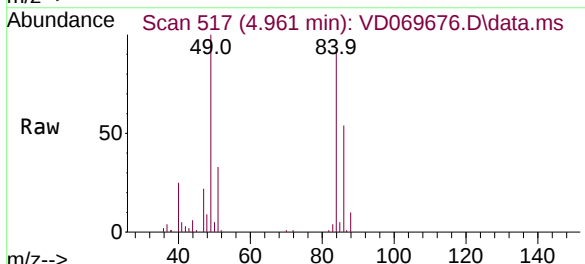
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MSVOA\_D  
ClientSampleId :

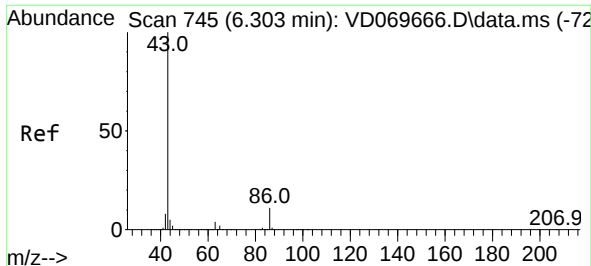
Tgt Ion: 43 Resp: 254  
Ion Ratio Lower Upper  
43 100  
74 39.8 20.6 30.8#



#20  
Methylene Chloride  
Concen: 6.237 ug/l  
RT: 4.961 min Scan# 517  
Delta R.T. 0.000 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Tgt Ion: 84 Resp: 64437  
Ion Ratio Lower Upper  
84 100  
49 108.8 95.5 143.3  
51 36.4 29.7 44.5  
86 58.7 51.6 77.4

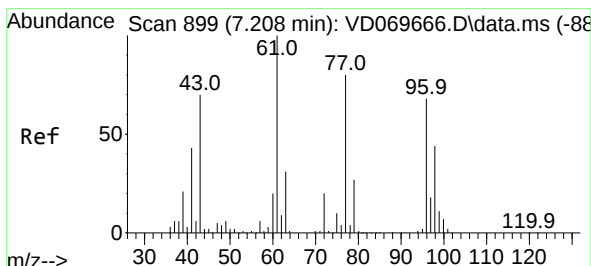
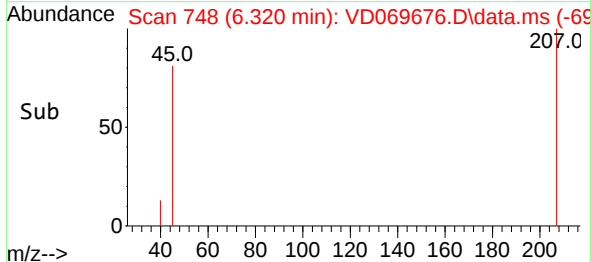
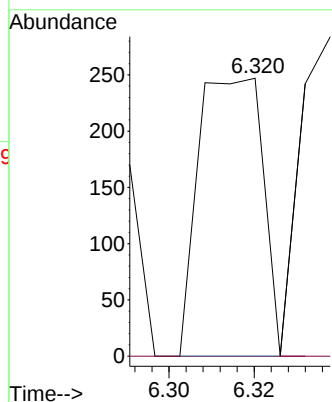
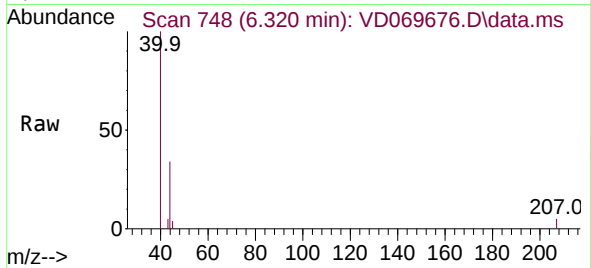




#23  
 Vinyl Acetate  
 Concen: 15.461 ug/l  
 RT: 6.320 min Scan# 748  
 Delta R.T. 0.017 min  
 Lab File: VD069676.D  
 Acq: 13 Jul 2021 18:01

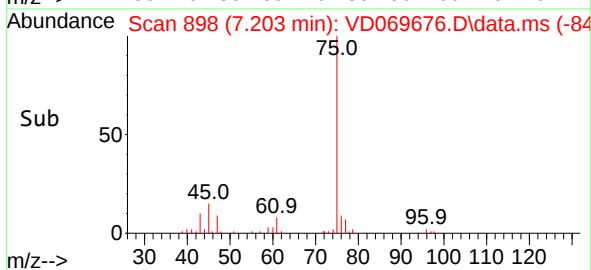
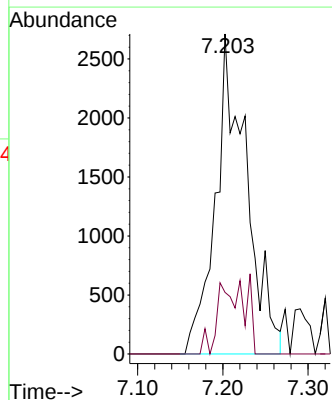
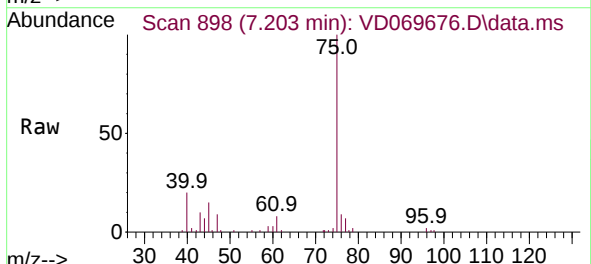
Instrument :  
 MSVOA\_D  
 ClientSampled :

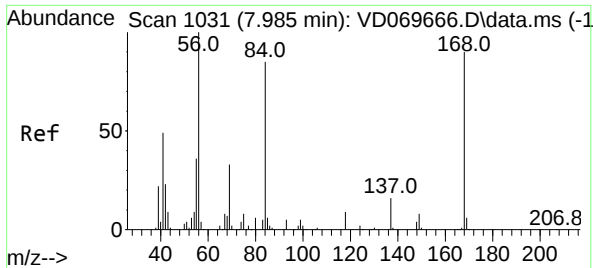
Tgt Ion: 43 Resp: 258  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.6 12.8#



#25  
 2-Butanone  
 Concen: 6.726 ug/l  
 RT: 7.203 min Scan# 898  
 Delta R.T. -0.005 min  
 Lab File: VD069676.D  
 Acq: 13 Jul 2021 18:01

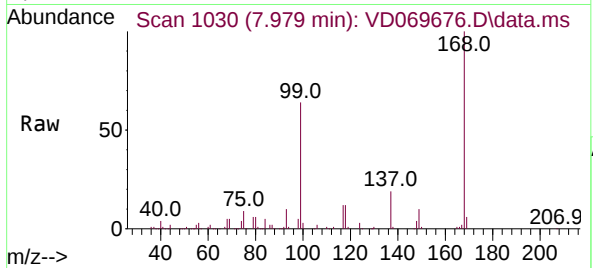
Tgt Ion: 43 Resp: 6828  
 Ion Ratio Lower Upper  
 43 100  
 72 19.3 22.6 33.8#



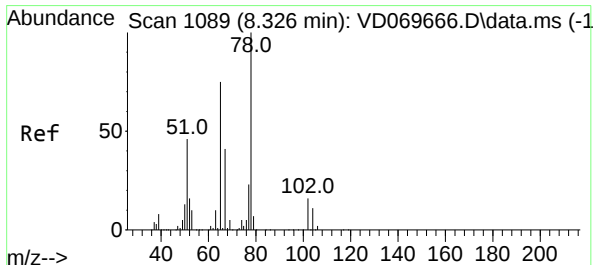
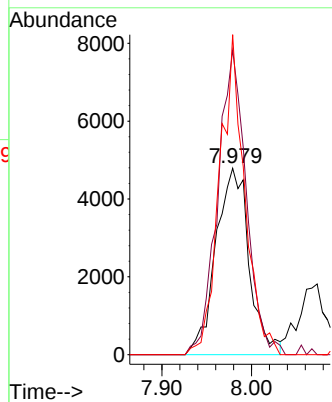
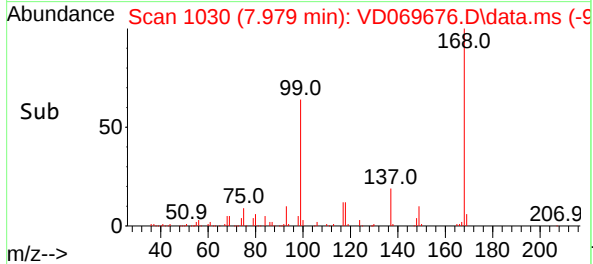


#31  
Cyclohexane  
Concen: 2.079 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

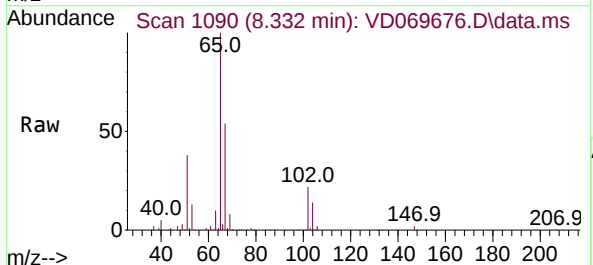
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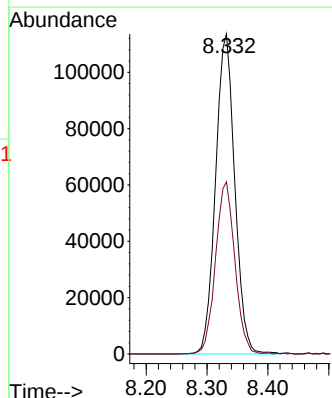
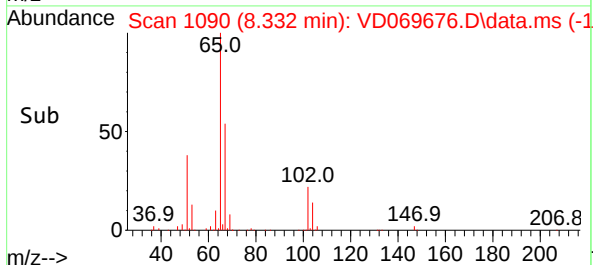
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Ion Ratio Lower Upper  
56 100  
69 163.5 26.6 39.8#  
84 171.7 68.2 102.2#

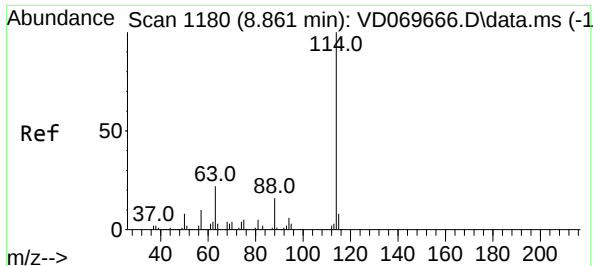


#33  
1,2-Dichloroethane-d4  
Concen: 57.906 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.006 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01



Tgt Ion: 65 Resp: 248728  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

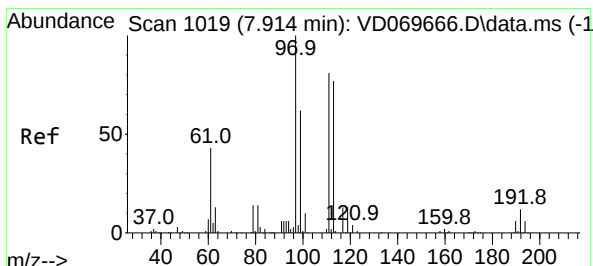
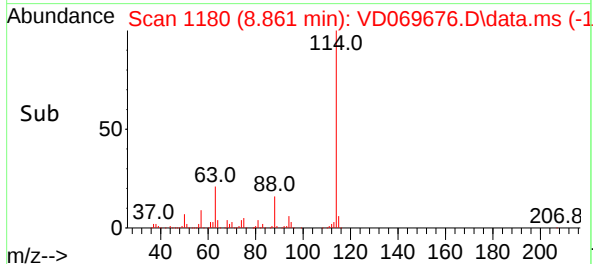
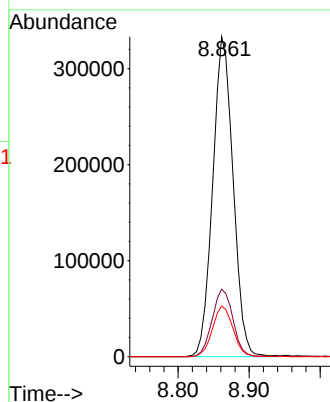
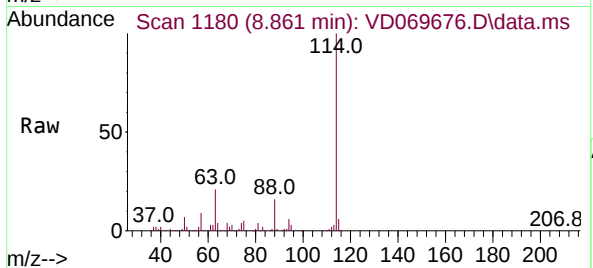
Delta R.T. 0.000 min

Lab File: VD069676.D

Acq: 13 Jul 2021 18:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 664481 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 21.1  | 0.0   | 43.4   |
| 88        | 15.8  | 0.0   | 32.0   |

Instrument :  
MSVOA\_D  
ClientSampled :



#35

Dibromofluoromethane

Concen: 49.989 ug/l

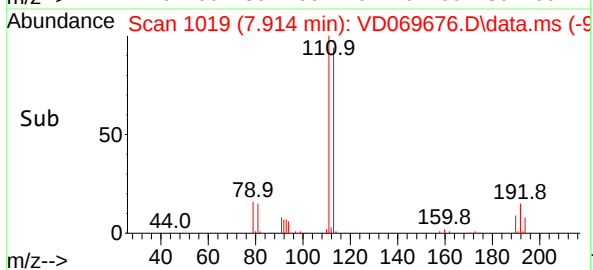
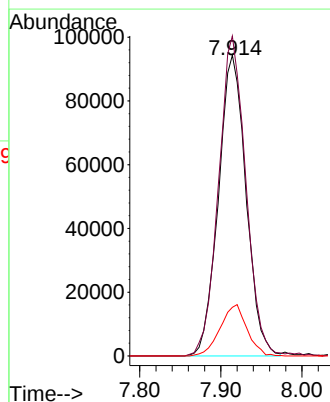
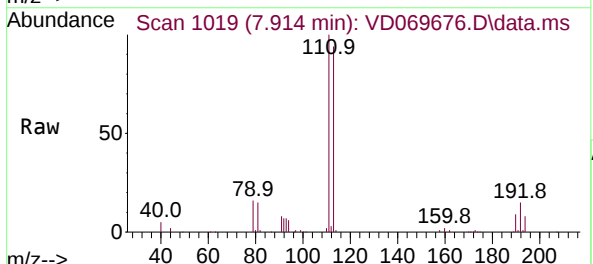
RT: 7.914 min Scan# 1019

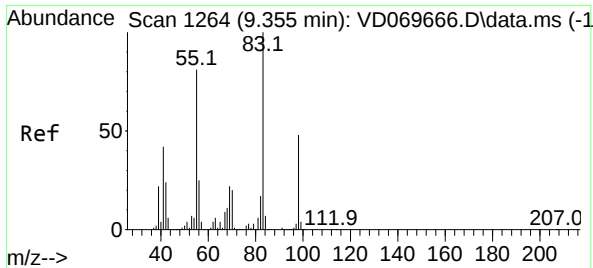
Delta R.T. 0.000 min

Lab File: VD069676.D

Acq: 13 Jul 2021 18:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 222847 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 105.0 | 82.6  | 123.8  |
| 192       | 16.6  | 12.7  | 19.1   |





#39

Methylcyclohexane

Concen: 2.384 ug/l

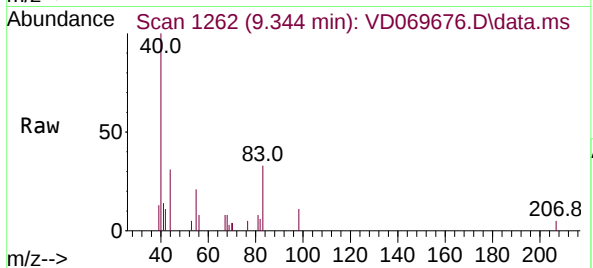
RT: 9.344 min Scan# 1262

Delta R.T. -0.011 min

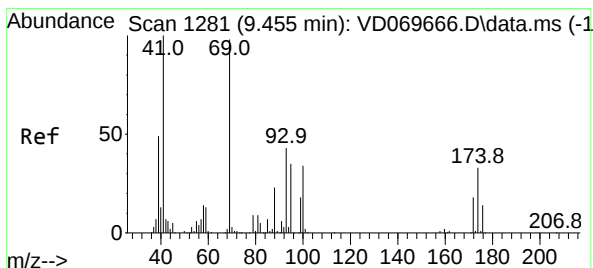
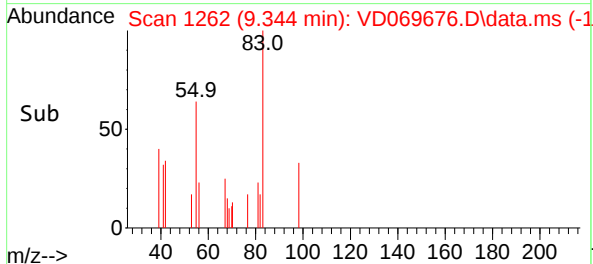
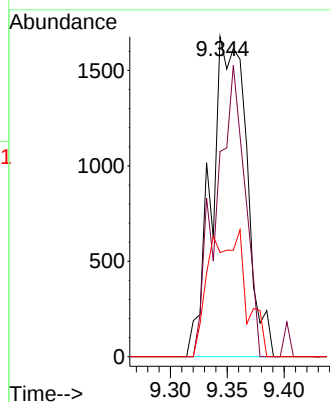
Lab File: VD069676.D

Acq: 13 Jul 2021 18:01

Instrument :  
MSVOA\_D  
ClientSampled :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 3631  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 64.2  | 64.6  | 97.0# |
| 98       | 32.6  | 38.4  | 57.6# |



#48

Methyl methacrylate

Concen: 1.220 ug/l

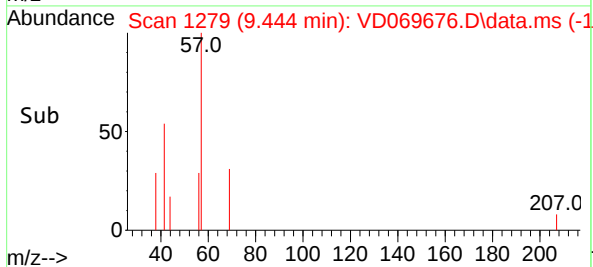
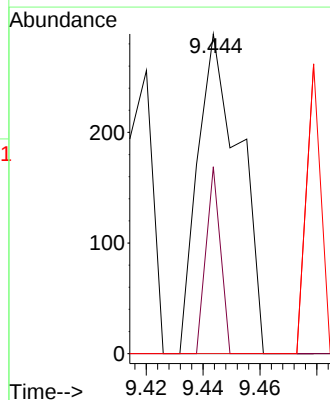
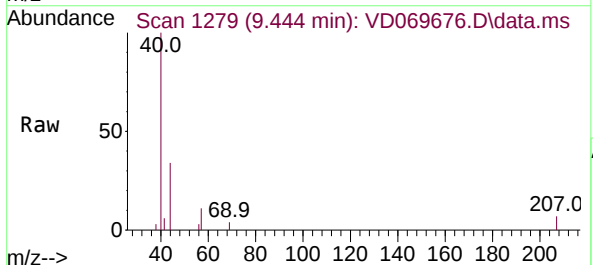
RT: 9.444 min Scan# 1279

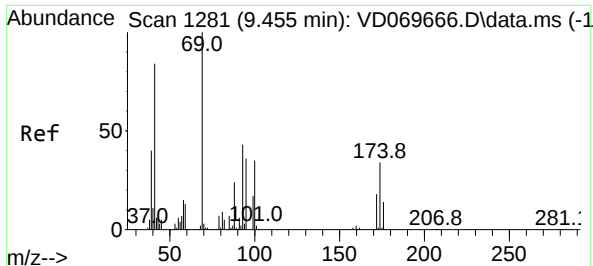
Delta R.T. -0.011 min

Lab File: VD069676.D

Acq: 13 Jul 2021 18:01

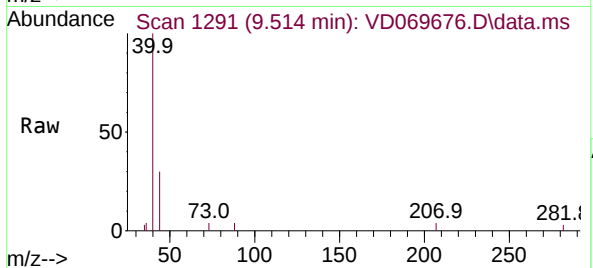
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 296    |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 20.3  | 71.6  | 107.4# |
| 39       | 0.0   | 36.7  | 55.1#  |



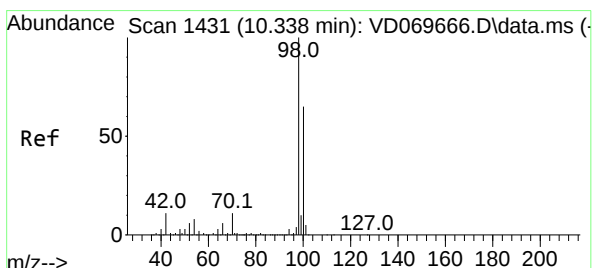
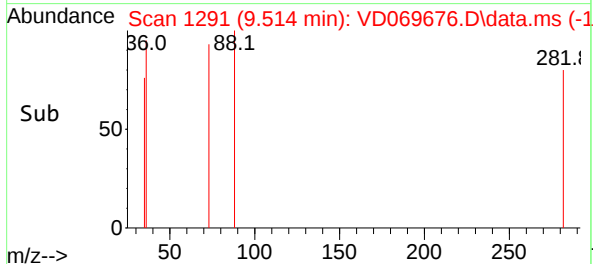
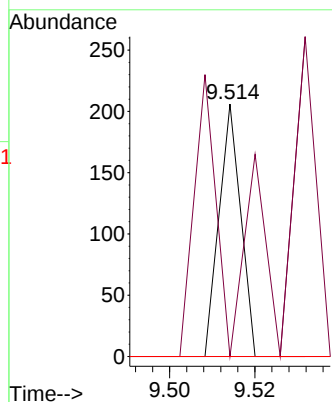


#49  
1,4-Dioxane  
Concen: 103.260 ug/l  
RT: 9.514 min Scan# 1291  
Delta R.T. 0.059 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Instrument :  
MSVOA\_D  
ClientSampled :

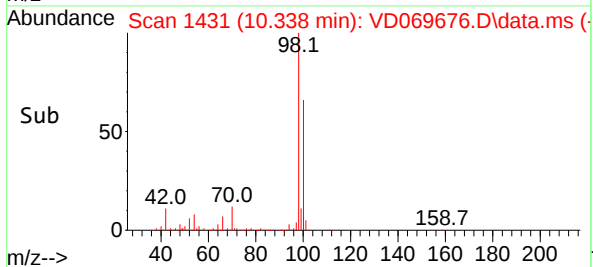
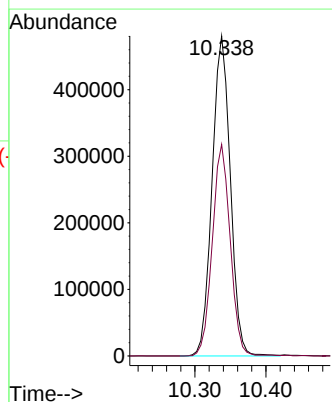
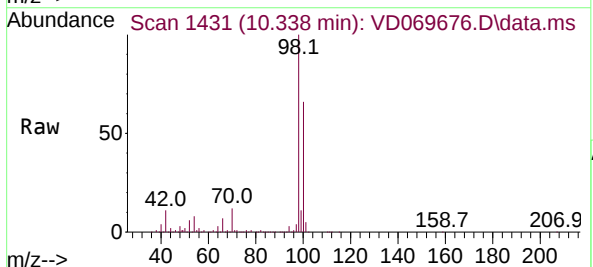


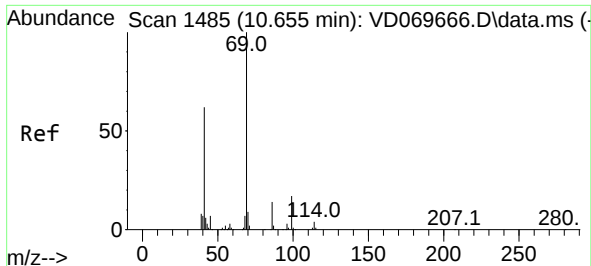
Tgt Ion: 88 Resp: 73  
Ion Ratio Lower Upper  
88 100  
43 111.0 25.3 37.9#  
58 0.0 62.6 94.0#



#50  
Toluene-d8  
Concen: 49.496 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Tgt Ion: 98 Resp: 857215  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.2 78.2

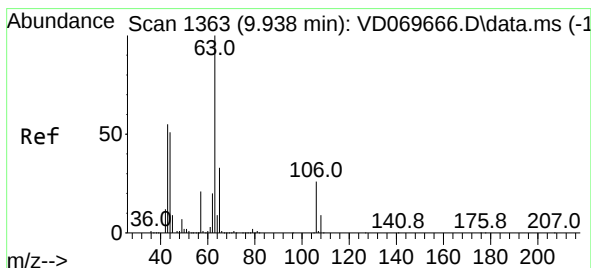
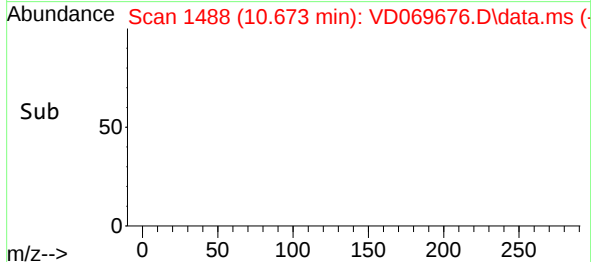
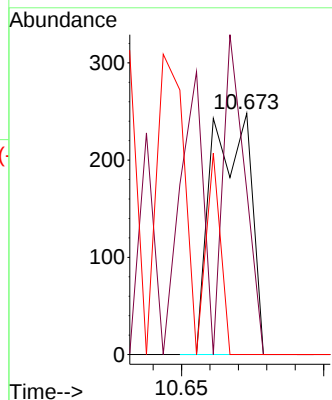
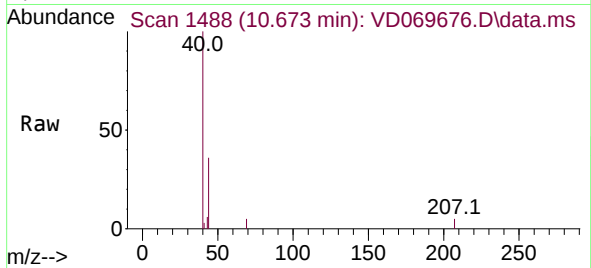




#56  
Ethyl methacrylate  
Concen: 1.715 ug/l  
RT: 10.673 min Scan# 1488  
Delta R.T. 0.018 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

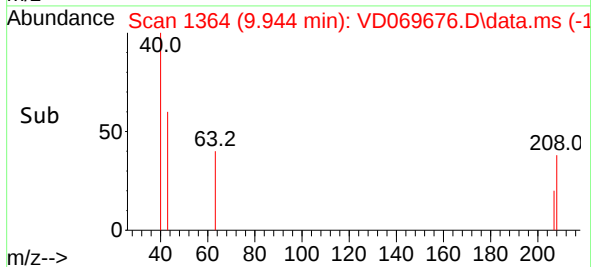
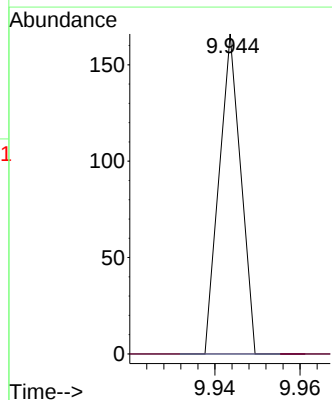
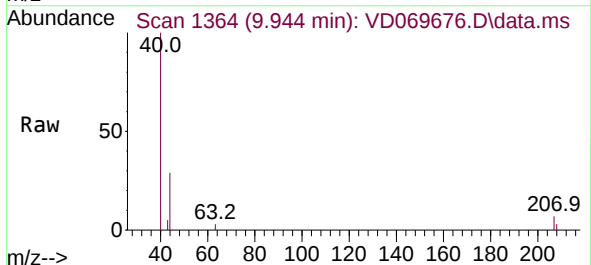
Instrument :  
MSVOA\_D  
ClientSampleId :

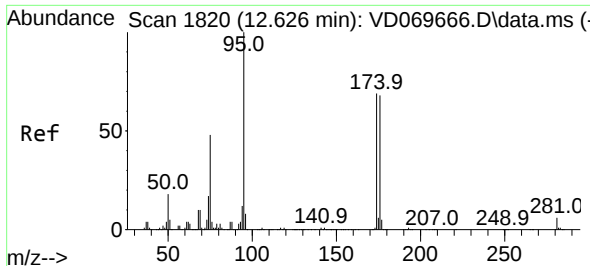
Tgt Ion: 69 Resp: 237  
Ion Ratio Lower Upper  
69 100  
41 74.3 49.5 74.3  
39 0.0 22.5 33.7#



#58  
2-Chloroethyl Vinyl ether  
Concen: 9.388 ug/l  
RT: 9.944 min Scan# 1364  
Delta R.T. 0.006 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Tgt Ion: 63 Resp: 59  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.1 31.7#

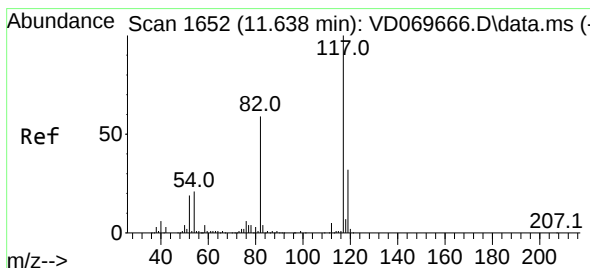
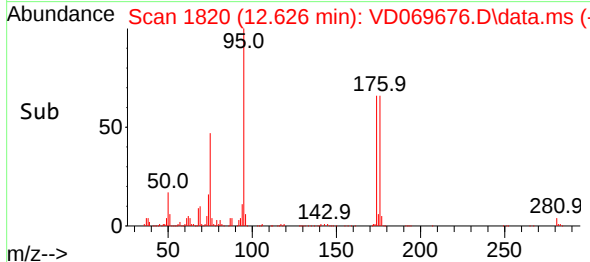
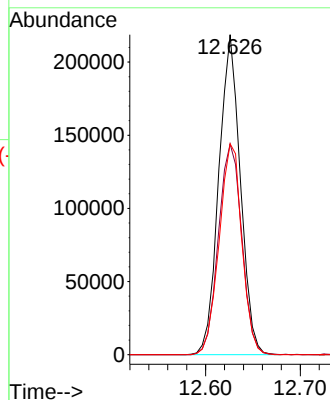
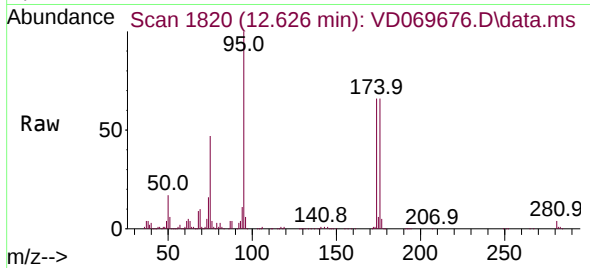




#62  
4-Bromofluorobenzene  
Concen: 59.954 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

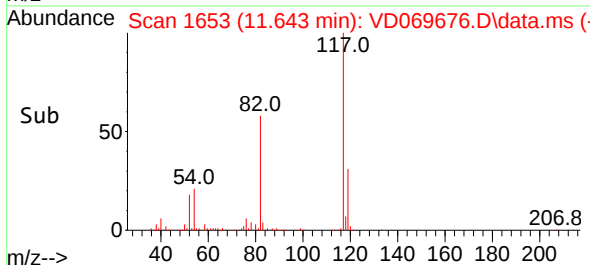
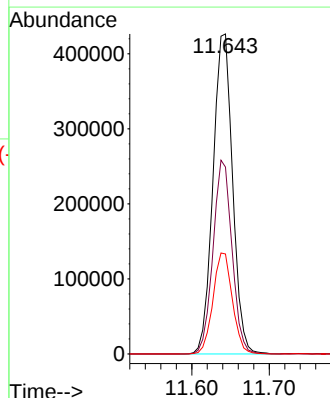
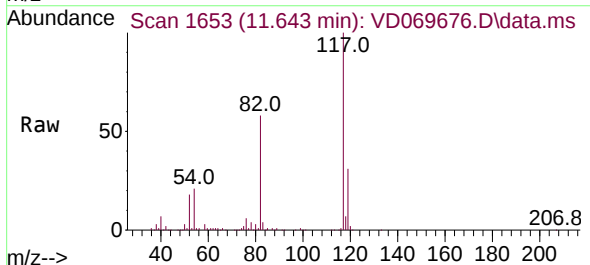
Instrument :  
MSVOA\_D  
ClientSampleId :

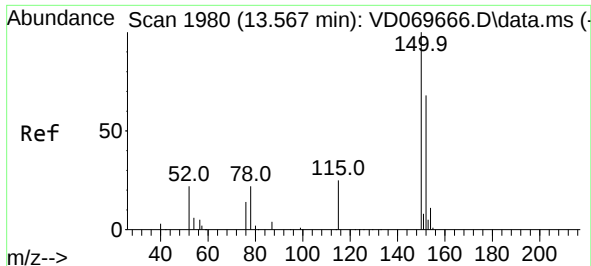
Tgt Ion: 95 Resp: 346293  
Ion Ratio Lower Upper  
95 100  
174 71.1 0.0 140.0  
176 69.3 0.0 136.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.643 min Scan# 1653  
Delta R.T. 0.005 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Tgt Ion: 117 Resp: 751327  
Ion Ratio Lower Upper  
117 100  
82 58.4 47.4 71.2  
119 31.3 25.5 38.3

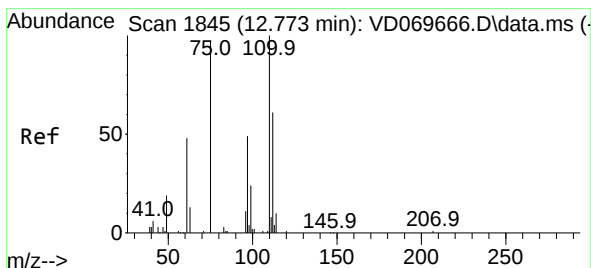
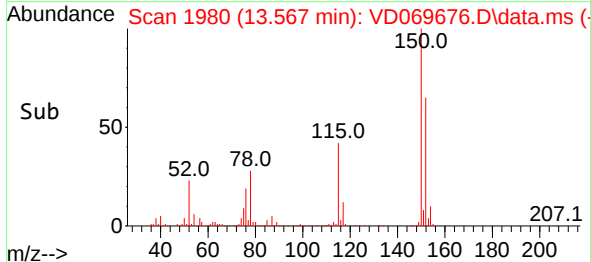
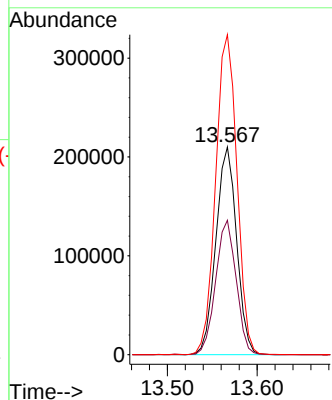
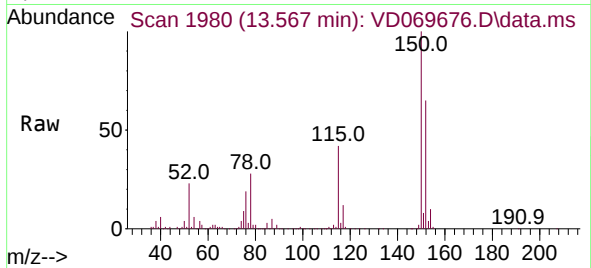




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.567 min Scan# 1980  
 Delta R.T. -0.000 min  
 Lab File: VD069676.D  
 Acq: 13 Jul 2021 18:01

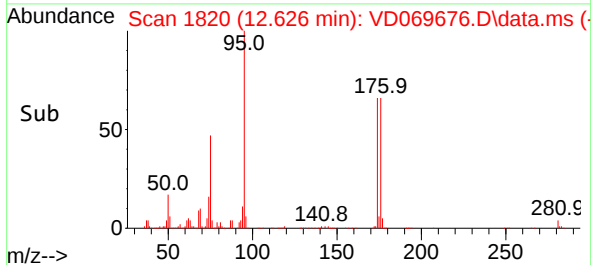
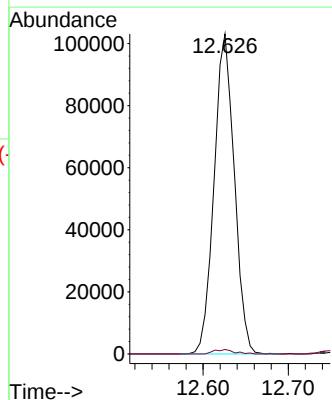
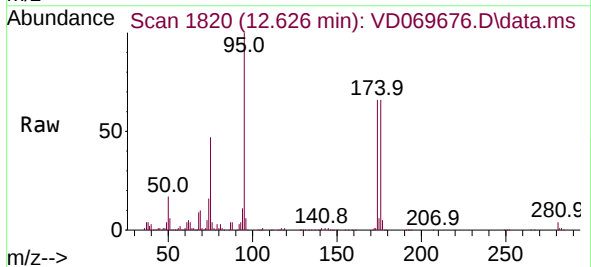
Instrument :  
 MSVOA\_D  
 ClientSampleId :

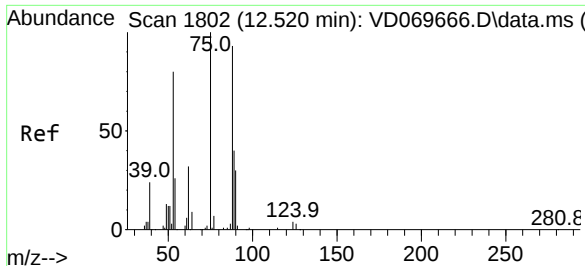
Tgt Ion:152 Resp: 337567  
 Ion Ratio Lower Upper  
 152 100  
 115 63.9 31.7 95.1  
 150 157.9 0.0 350.4



#76  
 1,2,3-Trichloropropane  
 Concen: 51.951 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. -0.147 min  
 Lab File: VD069676.D  
 Acq: 13 Jul 2021 18:01

Tgt Ion: 75 Resp: 170367  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#

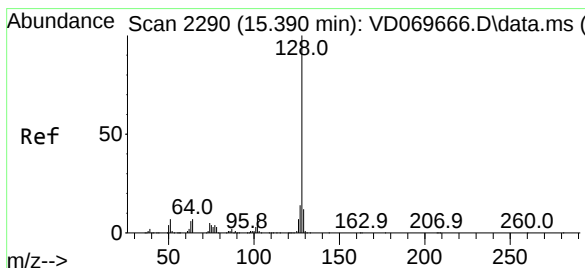
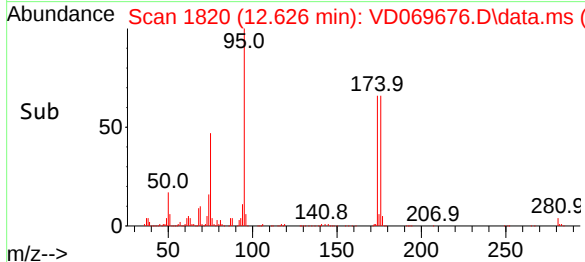
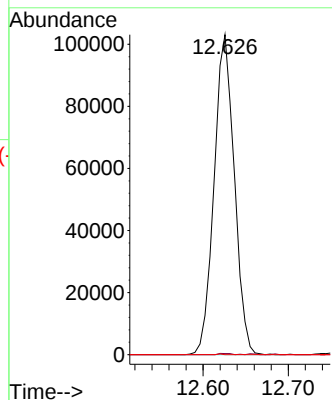
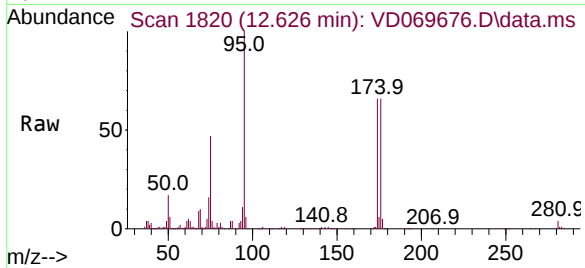




#81  
trans-1,4-Dichloro-2-butene  
Concen: 139.616 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Instrument :  
MSVOA\_D  
ClientSampled :

Tgt Ion: 75 Resp: 170367  
Ion Ratio Lower Upper  
75 100  
53 0.3 70.6 106.0#  
89 0.0 35.1 52.7#



#95  
Naphthalene  
Concen: 2.447 ug/l  
RT: 15.384 min Scan# 2289  
Delta R.T. -0.006 min  
Lab File: VD069676.D  
Acq: 13 Jul 2021 18:01

Tgt Ion:128 Resp: 2707  
Ion Ratio Lower Upper  
128 100  
127 10.8 10.6 16.0  
129 5.2 8.8 13.2#

