

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061521\  
 Data File : VD069444.D  
 Acq On : 15 Jun 2021 14:42  
 Operator : VA/SY  
 Sample : M2580-05  
 Misc : 10.66G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jun 16 02:00:57 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D061121S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 11 12:50:13 2021  
 Response via : Initial Calibration

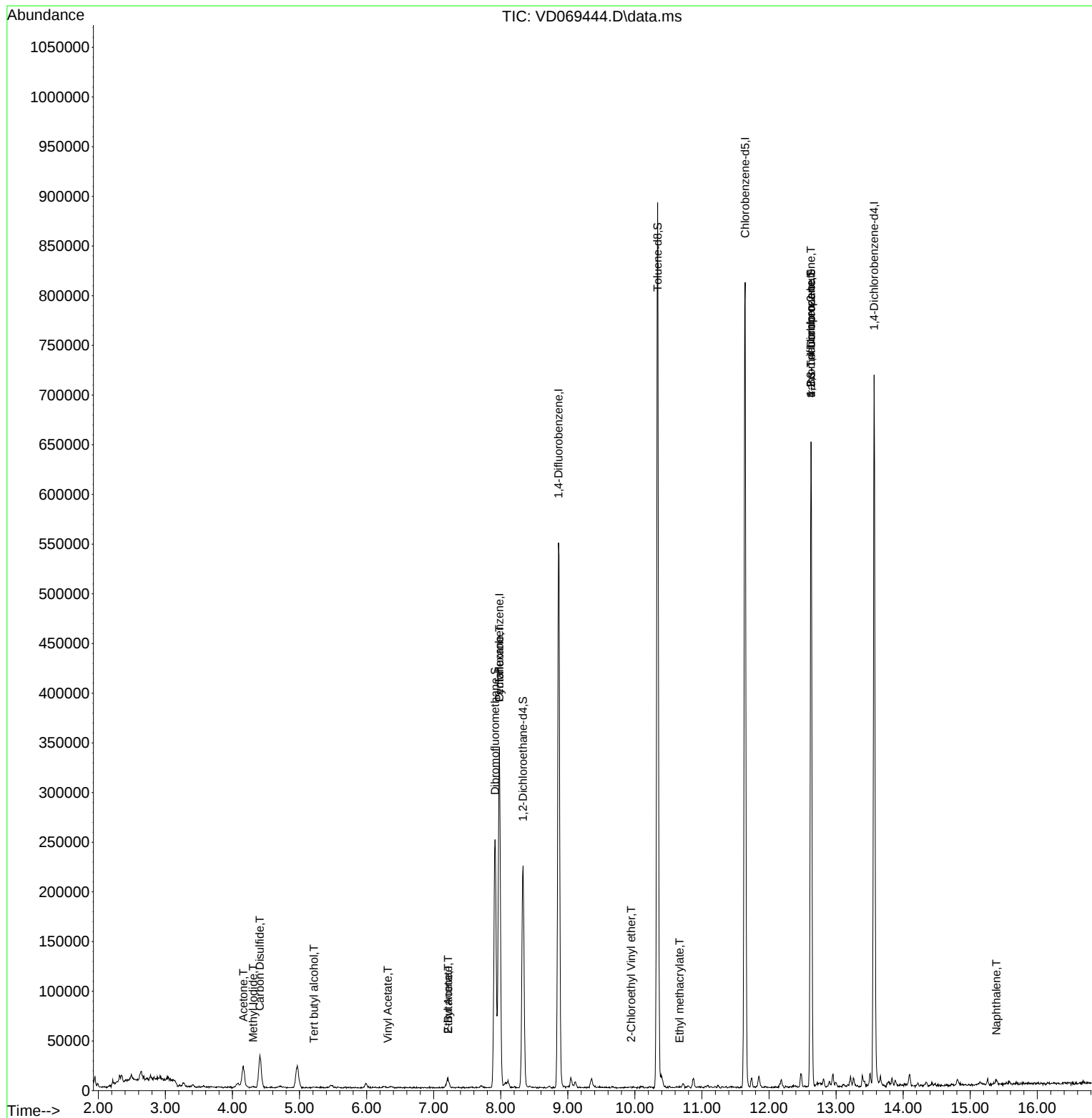
| Compound                      | R.T.   | QIon  | Response | Conc           | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------------|------------|----------|
| -----                         |        |       |          |                |            |          |
| Internal Standards            |        |       |          |                |            |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 253923   | 50.000         | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 492482   | 50.000         | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.644 | 117   | 501765   | 50.000         | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 197315   | 50.000         | ug/l       | 0.00     |
|                               |        |       |          |                |            |          |
| System Monitoring Compounds   |        |       |          |                |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.332  | 65    | 180922   | 63.157         | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery       | = 126.320% |          |
| 35) Dibromofluoromethane      | 7.914  | 113   | 184512   | 50.021         | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery       | = 100.040% |          |
| 50) Toluene-d8                | 10.338 | 98    | 627151   | 46.486         | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery       | = 92.980%  |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 197204   | 45.556         | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery       | = 91.120%  |          |
|                               |        |       |          |                |            |          |
| Target Compounds              |        |       |          |                |            | Qvalue   |
| 5) Bromomethane               | 2.785  | 94    | 1762     | Below Cal      | 89         |          |
| 10) Methyl Iodide             | 4.309  | 142   | 1039     | 3.651 ug/l #   | 88         |          |
| 11) Tert butyl alcohol        | 5.215  | 59    | 599      | 4.022 ug/l #   | 73         |          |
| 16) Acetone                   | 4.162  | 43    | 36854    | 77.724 ug/l    | 93         |          |
| 17) Carbon Disulfide          | 4.409  | 76    | 70321    | 8.073 ug/l     | 96         |          |
| 18) Methyl Acetate            | 4.721  | 43    | 56       | Below Cal #    | 46         |          |
| 20) Methylene Chloride        | 4.968  | 84    | 18007    | Below Cal      | 94         |          |
| 23) Vinyl Acetate             | 6.315  | 43    | 115      | 17.603 ug/l #  | 67         |          |
| 25) 2-Butanone                | 7.214  | 43    | 5522     | 9.339 ug/l #   | 85         |          |
| 31) Cyclohexane               | 7.979  | 56    | 7134     | 1.833 ug/l #   | 39         |          |
| 37) Ethyl Acetate             | 7.214  | 43    | 5522     | 3.219 ug/l #   | 55         |          |
| 56) Ethyl methacrylate        | 10.667 | 69    | 189      | 2.878 ug/l #   | 77         |          |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63    | 181      | 12.044 ug/l #  | 23         |          |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 95598    | 47.789 ug/l #  | 1          |          |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 95598    | 127.487 ug/l # | 18         |          |
| 95) Naphthalene               | 15.391 | 128   | 4849     | 4.229 ug/l #   | 79         |          |
| -----                         |        |       |          |                |            |          |

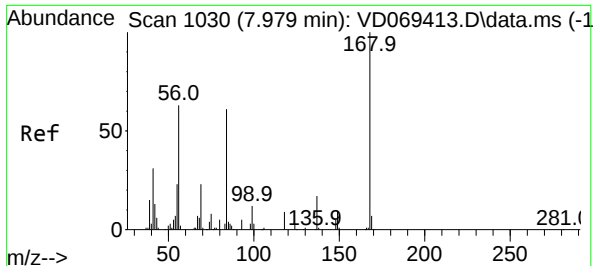
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061521\  
Data File : VD069444.D  
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Sample : M2580-05  
Misc : 10.66G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jun 16 02:00:57 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D061121S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 11 12:50:13 2021  
Response via : Initial Calibration

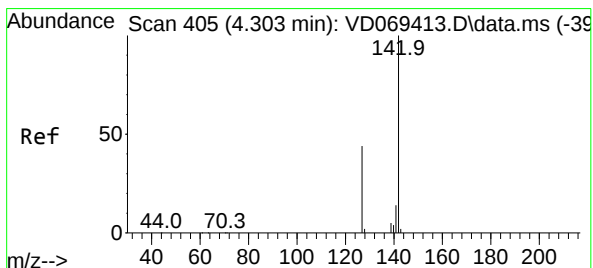
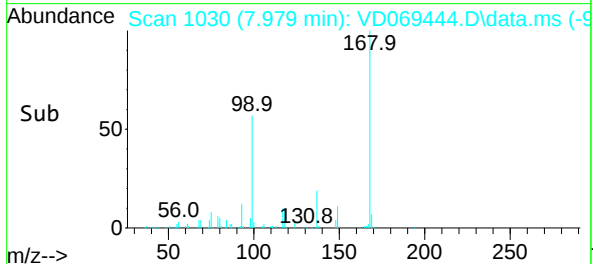
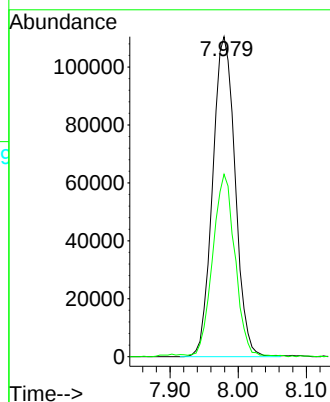
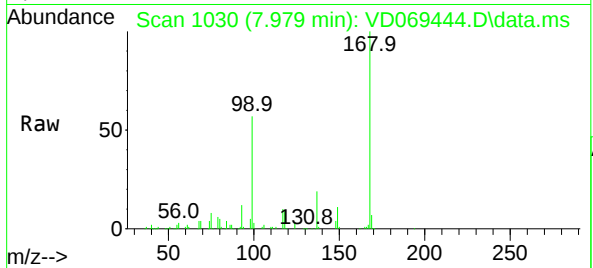




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

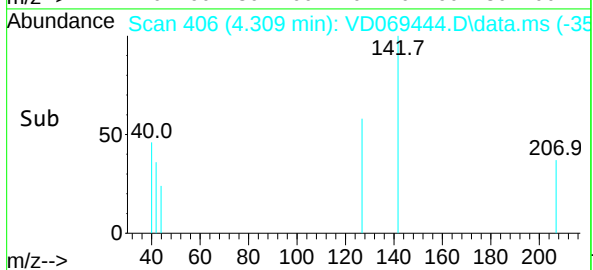
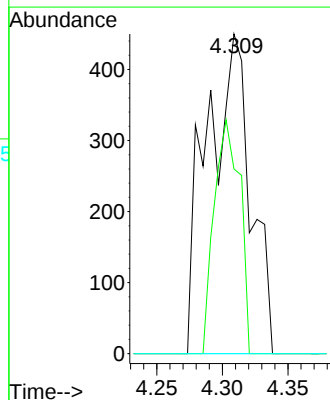
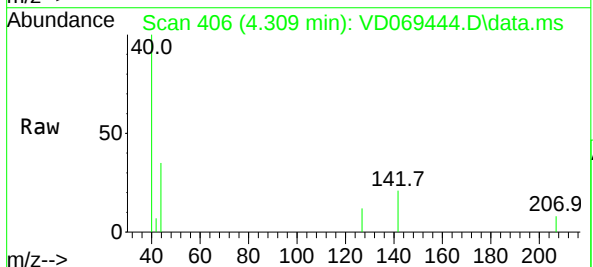
Instrument :  
MSVOA\_D  
ClientSampleId :

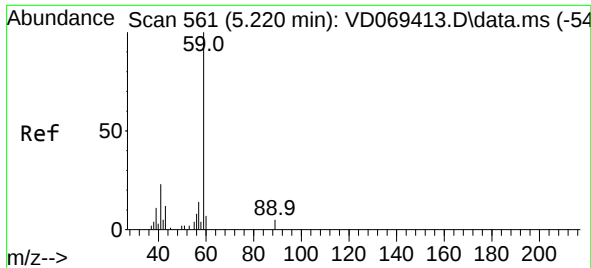
Tgt Ion:168 Resp: 253923  
Ion Ratio Lower Upper  
168 100  
99 56.6 46.2 69.2



#10  
Methyl Iodide  
Concen: 3.651 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Tgt Ion:142 Resp: 1039  
Ion Ratio Lower Upper  
142 100  
127 43.0 36.2 54.2  
141 0.0 12.2 18.2#

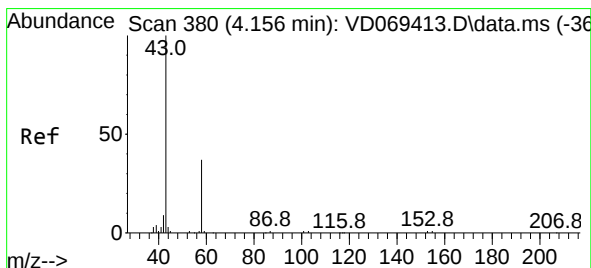
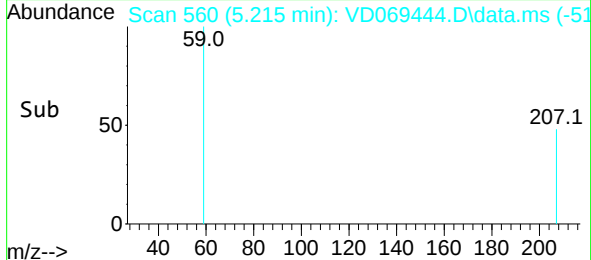
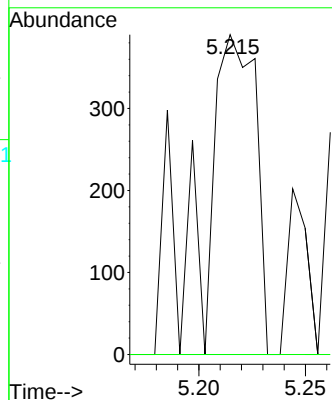
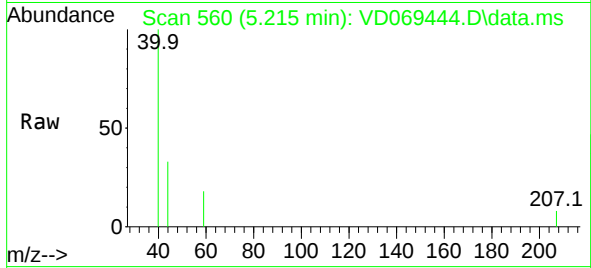




#11  
Tert butyl alcohol  
Concen: 4.022 ug/l  
RT: 5.215 min Scan# 560  
Delta R.T. -0.005 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

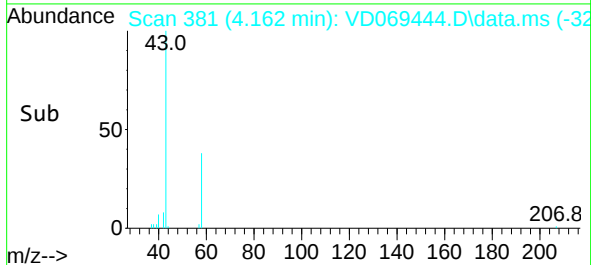
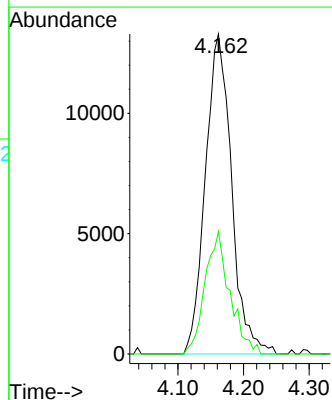
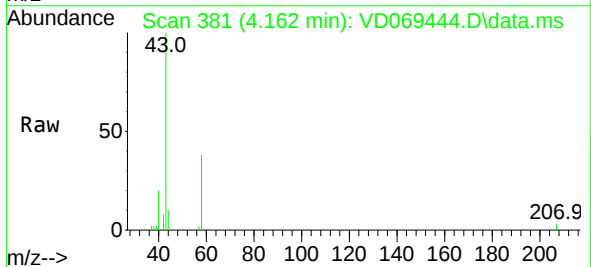
Instrument :  
MSVOA\_D  
ClientSampled :

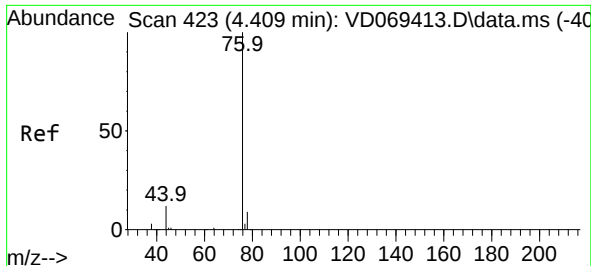
Tgt Ion: 59 Resp: 599  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#



#16  
Acetone  
Concen: 77.724 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

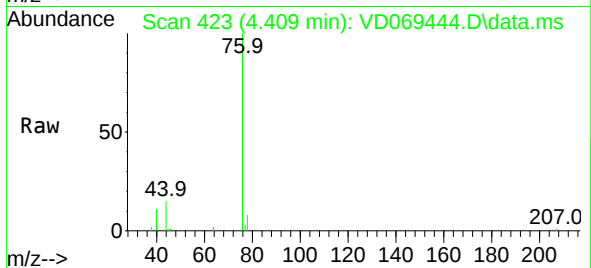
Tgt Ion: 43 Resp: 36854  
Ion Ratio Lower Upper  
43 100  
58 38.3 27.5 41.3



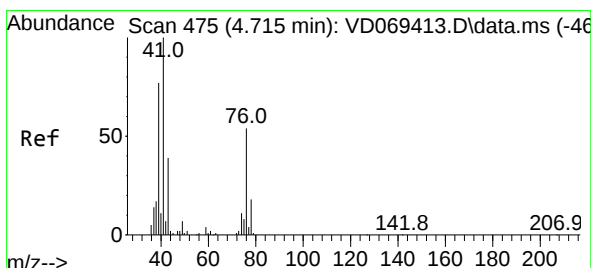
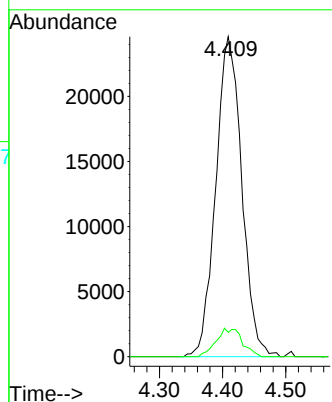
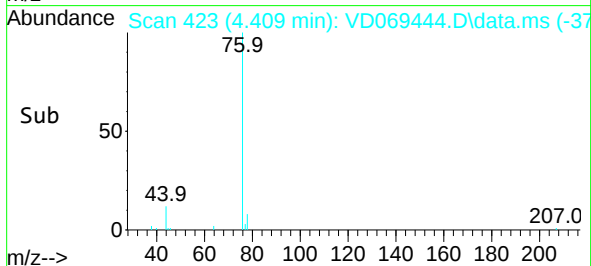


#17  
Carbon Disulfide  
Concen: 8.073 ug/l  
RT: 4.409 min Scan# 423  
Delta R.T. -0.000 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

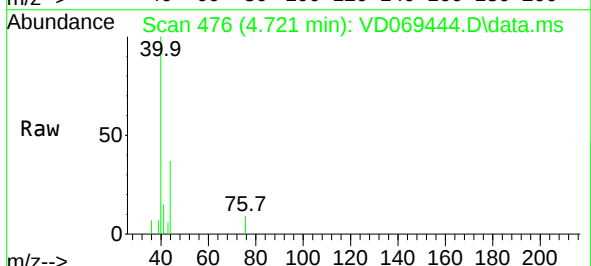
Instrument :  
MSVOA\_D  
ClientSampled :



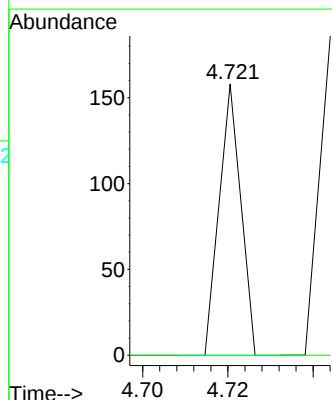
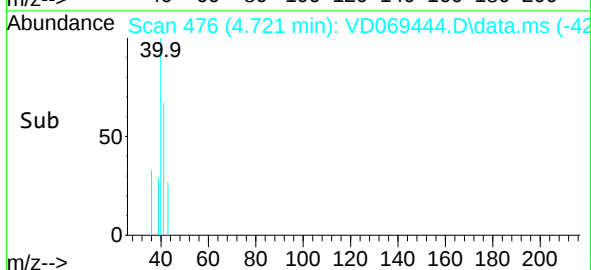
Tgt Ion: 76 Resp: 70321  
Ion Ratio Lower Upper  
76 100  
78 7.6 7.4 11.0

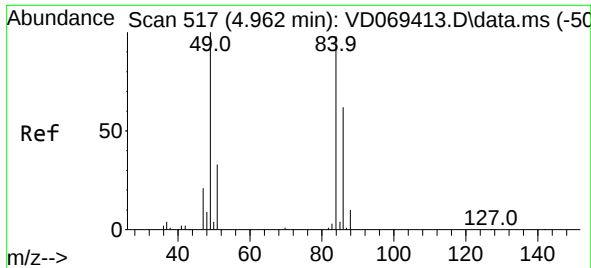


#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.721 min Scan# 476  
Delta R.T. 0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42



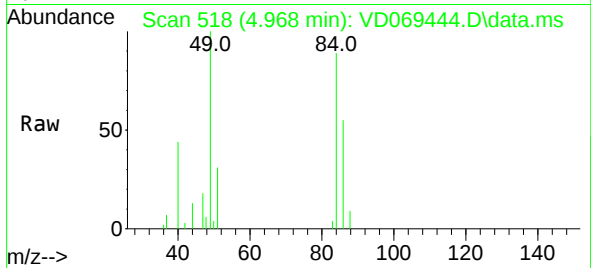
Tgt Ion: 43 Resp: 56  
Ion Ratio Lower Upper  
43 100  
74 0.0 22.8 34.2#



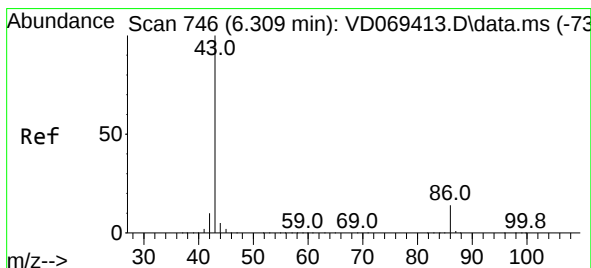
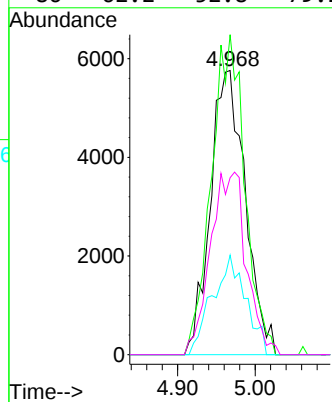
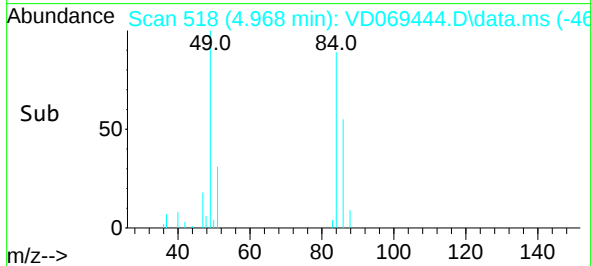


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.968 min Scan# 518  
Delta R.T. 0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

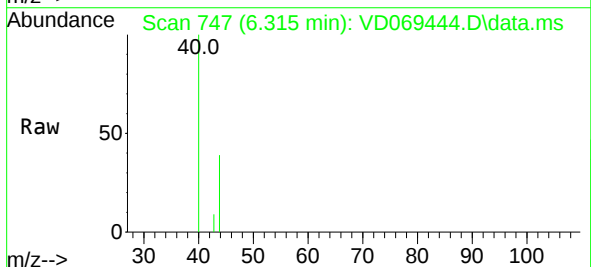
Instrument :  
MSVOA\_D  
ClientSampled :



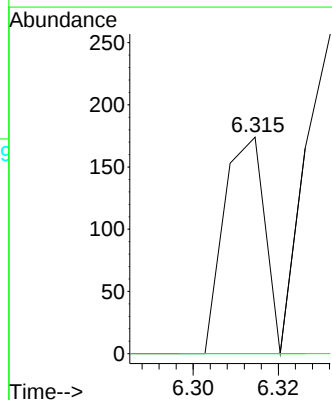
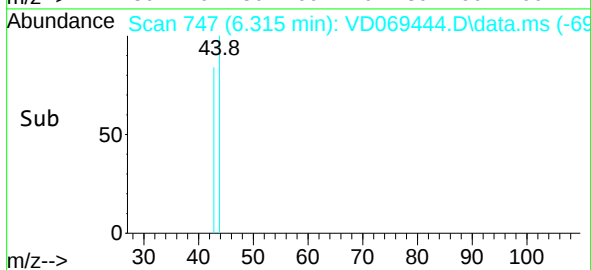
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 18007 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 112.6 | 83.7  | 125.5 |
| 51       | 35.0  | 26.4  | 39.6  |
| 86       | 62.2  | 52.8  | 79.2  |

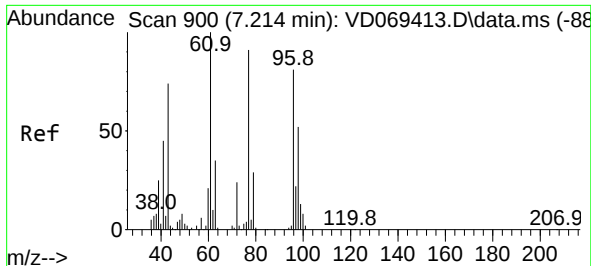


#23  
Vinyl Acetate  
Concen: 17.603 ug/l  
RT: 6.315 min Scan# 747  
Delta R.T. 0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 115   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 10.5  | 15.7# |

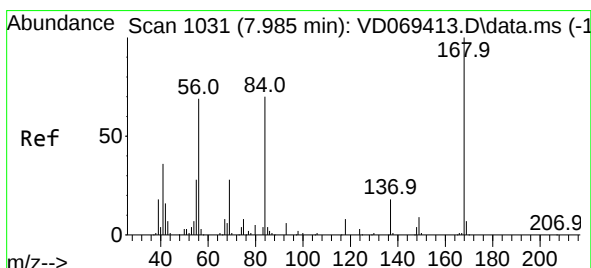
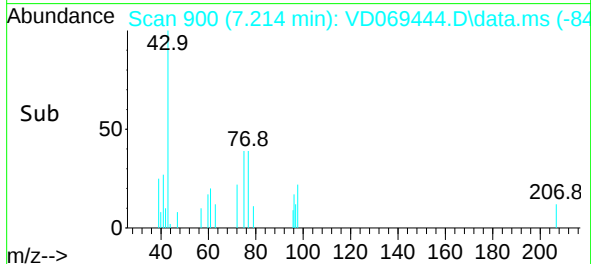
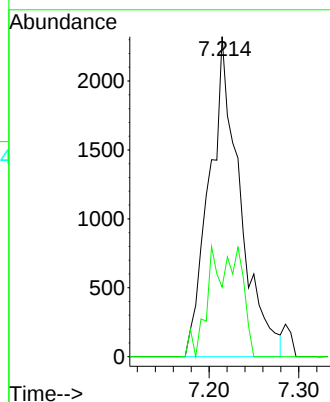
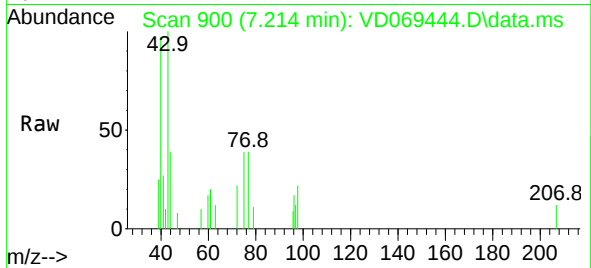




#25  
2-Butanone  
Concen: 9.339 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. 0.000 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

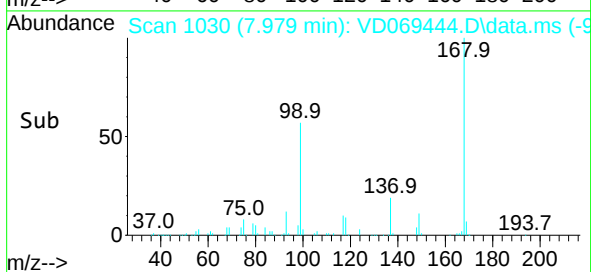
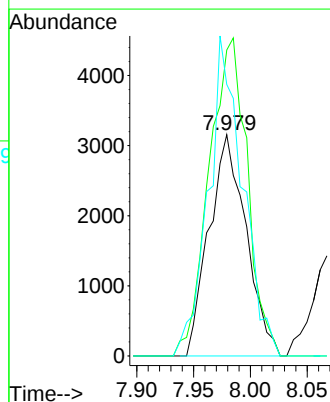
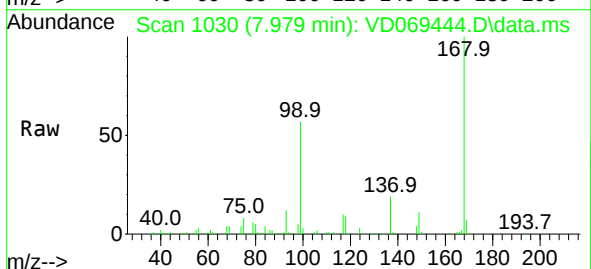
Instrument :  
MSVOA\_D  
ClientSampled :

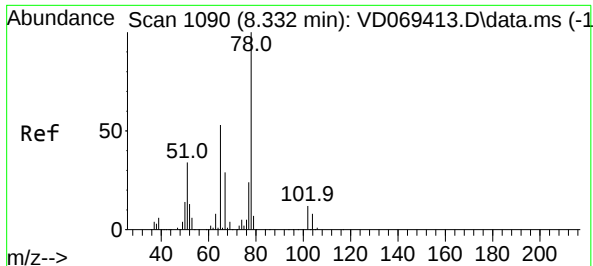
Tgt Ion: 43 Resp: 5522  
Ion Ratio Lower Upper  
43 100  
72 21.7 23.9 35.9#



#31  
Cyclohexane  
Concen: 1.833 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Tgt Ion: 56 Resp: 7134  
Ion Ratio Lower Upper  
56 100  
69 138.3 29.0 43.4#  
84 122.7 81.1 121.7#



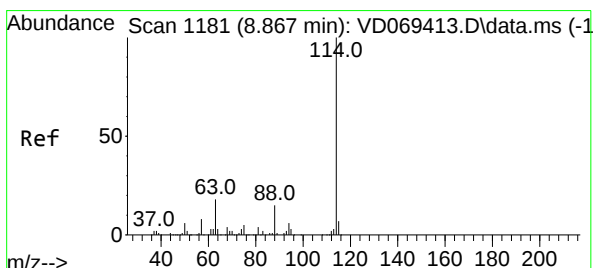
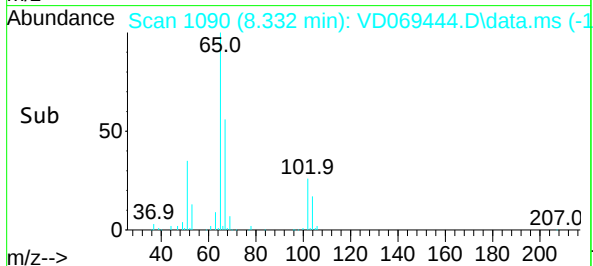
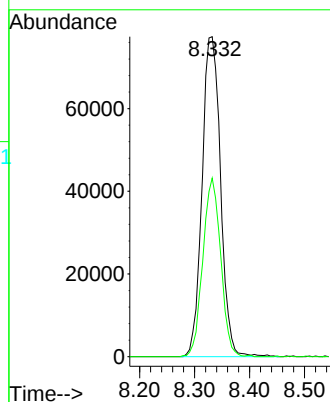
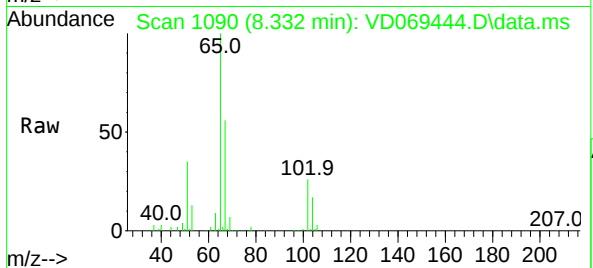


#33

1,2-Dichloroethane-d4  
Concen: 63.157 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Instrument :  
MSVOA\_D  
ClientSampled :

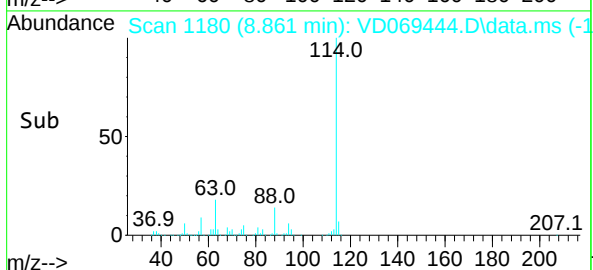
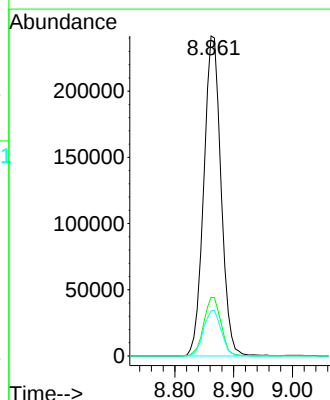
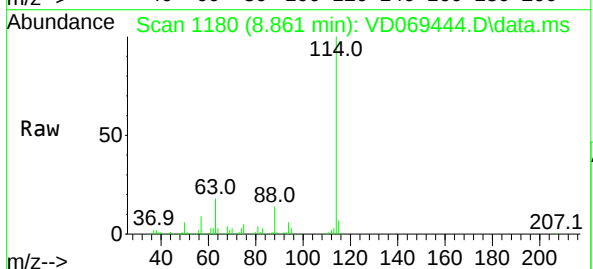
Tgt Ion: 65 Resp: 180922  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 105.8

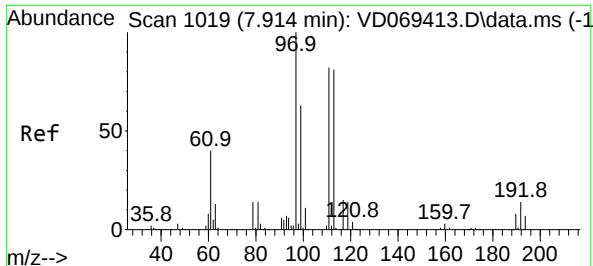


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. -0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Tgt Ion:114 Resp: 492482  
Ion Ratio Lower Upper  
114 100  
63 18.3 0.0 35.6  
88 14.1 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.021 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD069444.D

Acq: 15 Jun 2021 14:42

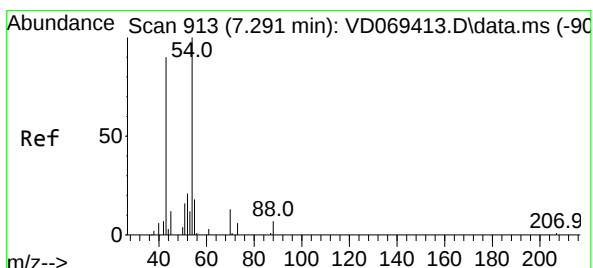
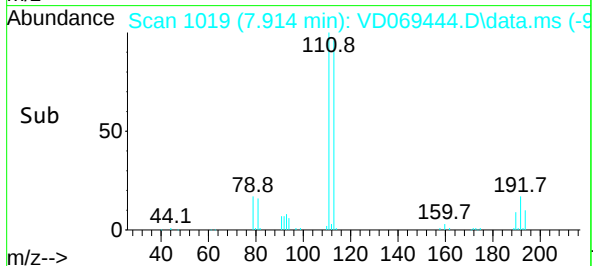
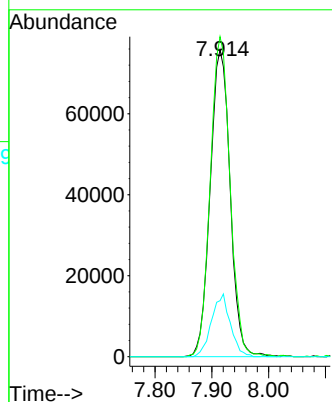
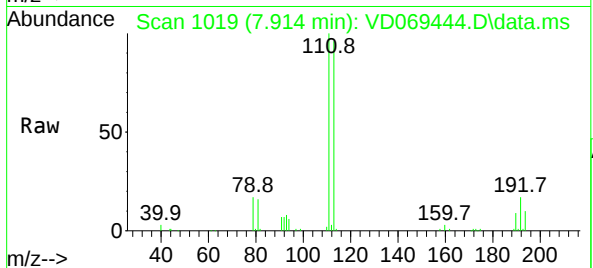
Tgt Ion:113 Resp: 184512

Ion Ratio Lower Upper

113 100

111 103.4 83.0 124.6

192 19.3 15.1 22.7



#37

Ethyl Acetate

Concen: 3.219 ug/l

RT: 7.214 min Scan# 900

Delta R.T. -0.077 min

Lab File: VD069444.D

Acq: 15 Jun 2021 14:42

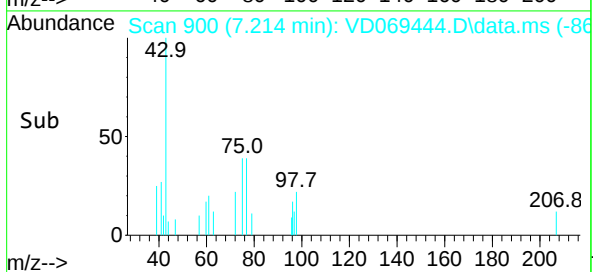
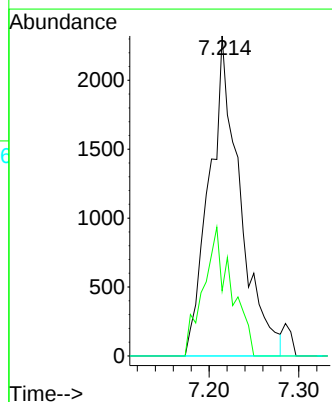
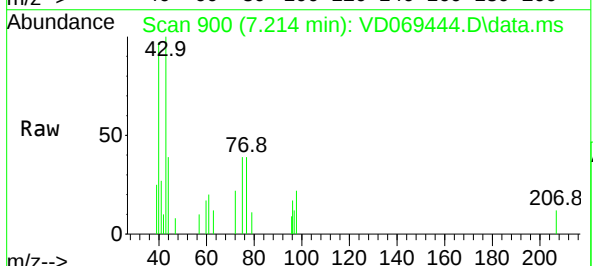
Tgt Ion: 43 Resp: 5522

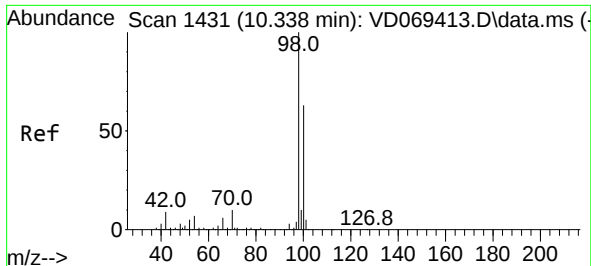
Ion Ratio Lower Upper

43 100

61 36.6 11.0 16.6#

70 0.0 9.7 14.5#

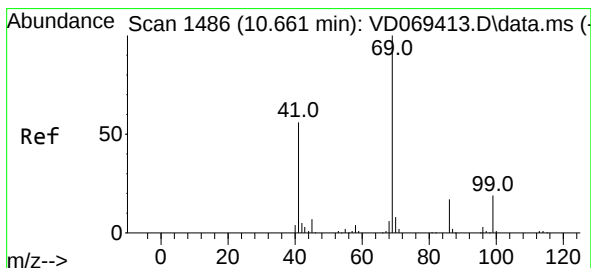
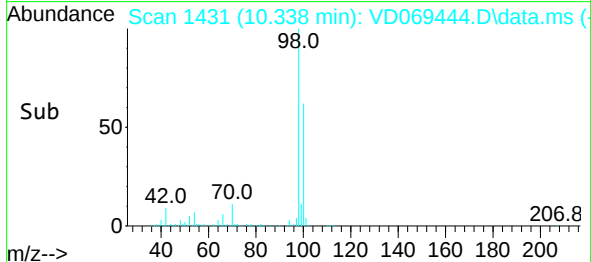
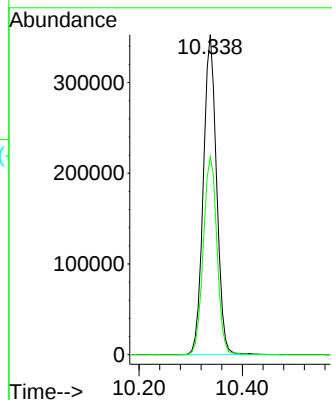
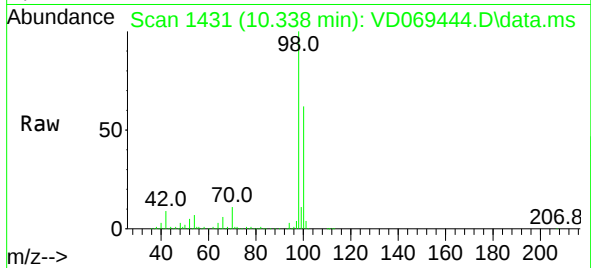




#50  
Toluene-d8  
Concen: 46.486 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

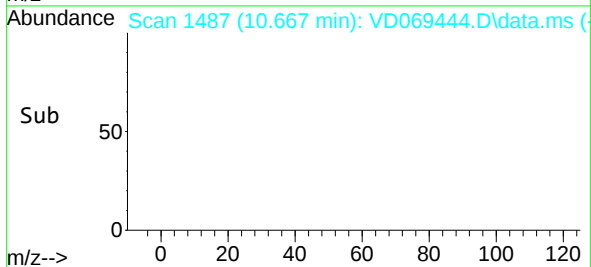
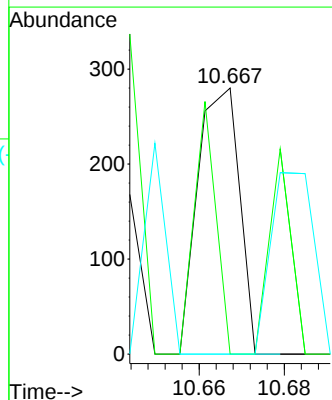
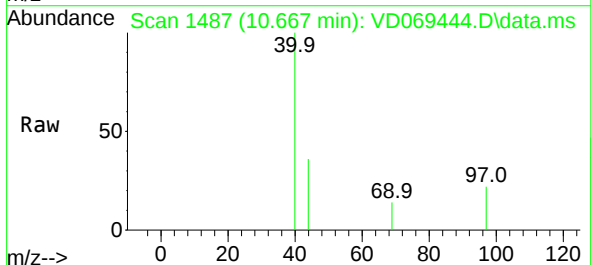
Instrument :  
MSVOA\_D  
ClientSampleId :

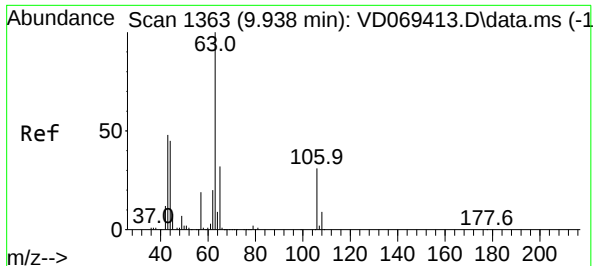
Tgt Ion: 98 Resp: 627151  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.1 78.1



#56  
Ethyl methacrylate  
Concen: 2.878 ug/l  
RT: 10.667 min Scan# 1487  
Delta R.T. 0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Tgt Ion: 69 Resp: 189  
Ion Ratio Lower Upper  
69 100  
41 49.7 45.4 68.2  
39 0.0 21.7 32.5#

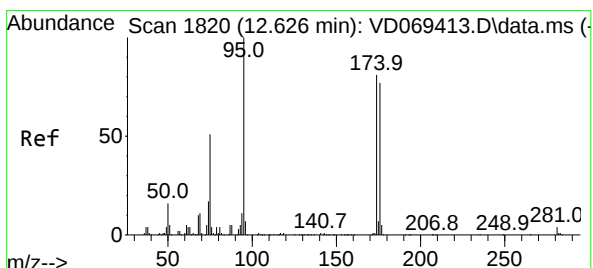
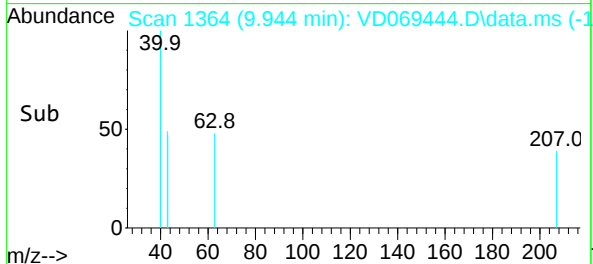
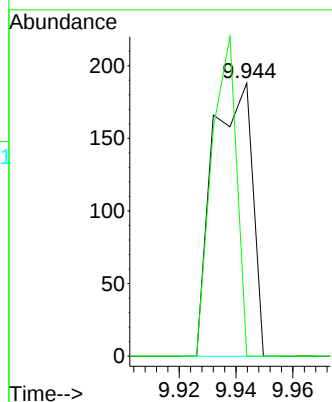
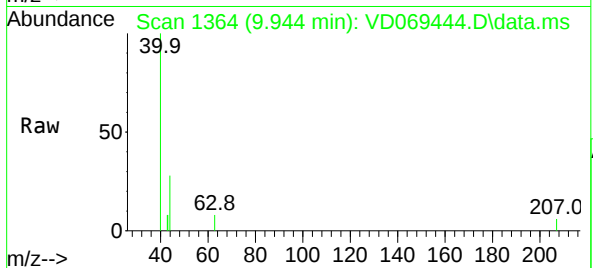




#58  
2-Chloroethyl Vinyl ether  
Concen: 12.044 ug/l  
RT: 9.944 min Scan# 1364  
Delta R.T. 0.006 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

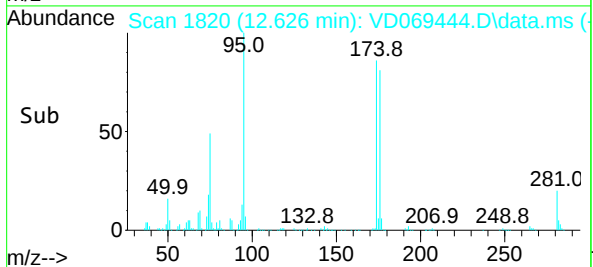
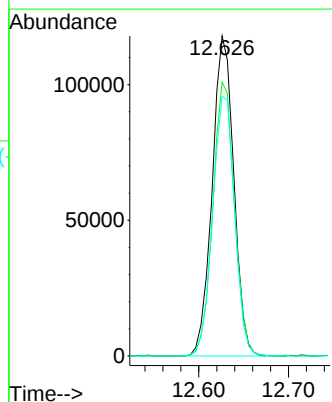
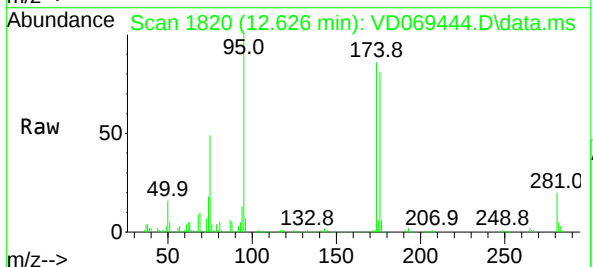
Instrument :  
MSVOA\_D  
ClientSampled :

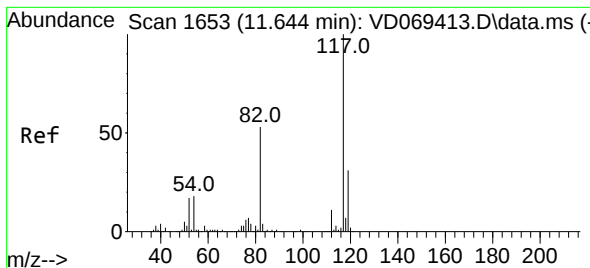
Tgt Ion: 63 Resp: 181  
Ion Ratio Lower Upper  
63 100  
106 73.5 24.8 37.2#



#62  
4-Bromofluorobenzene  
Concen: 45.556 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Tgt Ion: 95 Resp: 197204  
Ion Ratio Lower Upper  
95 100  
174 85.2 0.0 162.8  
176 82.7 0.0 154.4

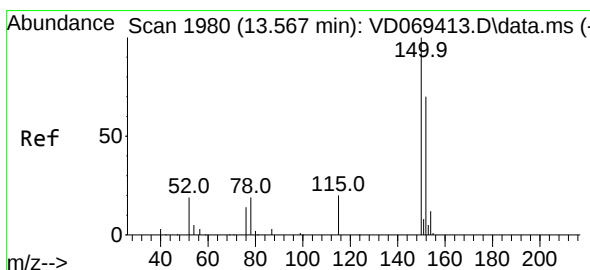
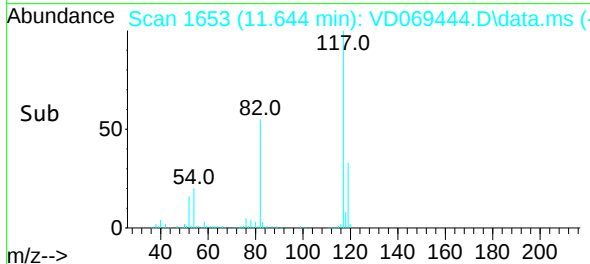
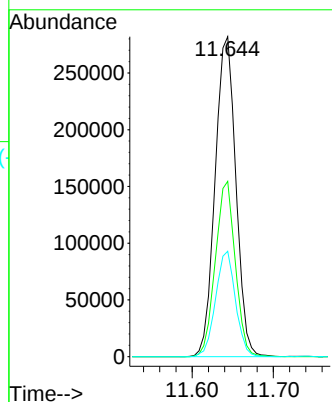
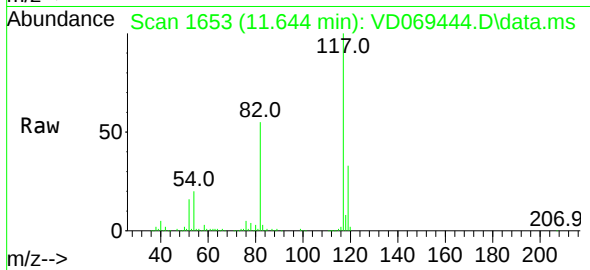




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. -0.000 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

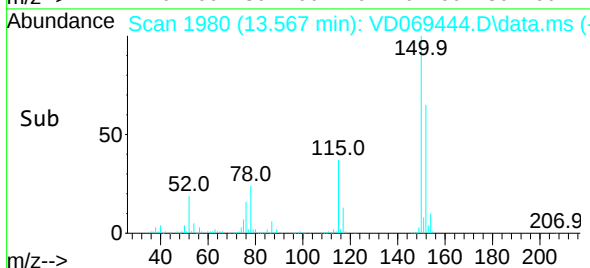
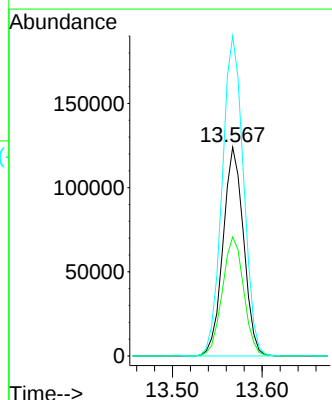
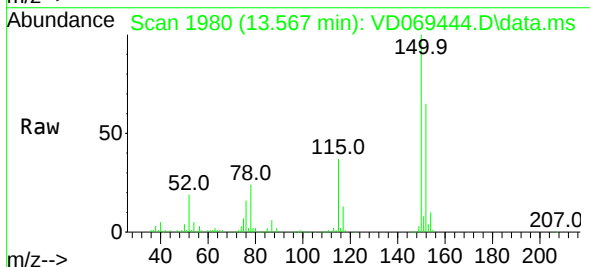
Instrument :  
MSVOA\_D  
ClientSampleId :

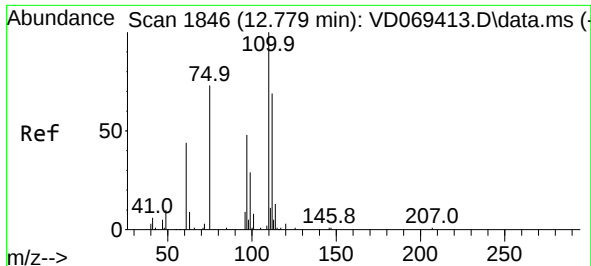
Tgt Ion:117 Resp: 501765  
Ion Ratio Lower Upper  
117 100  
82 54.8 43.3 64.9  
119 33.0 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Tgt Ion:152 Resp: 197315  
Ion Ratio Lower Upper  
152 100  
115 59.3 29.4 88.3  
150 158.7 0.0 355.0

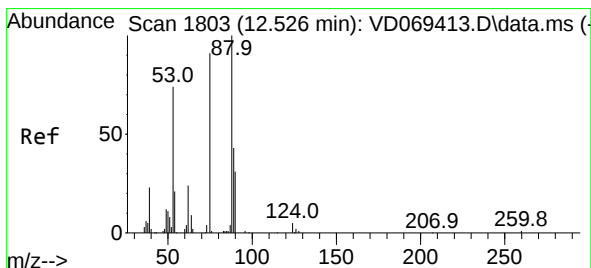
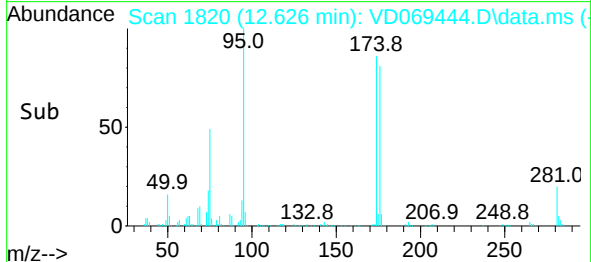
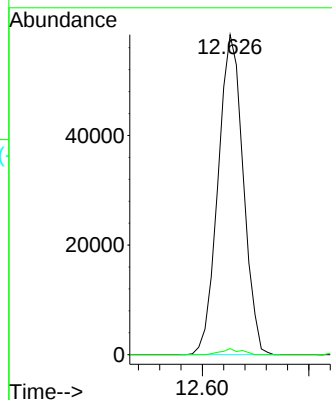
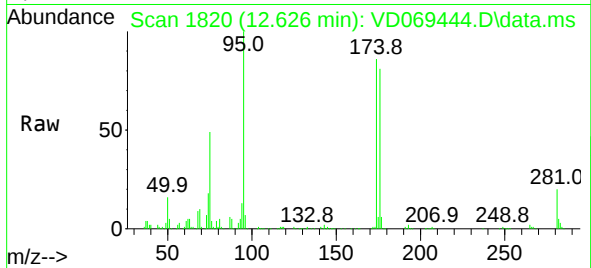




#76  
1,2,3-Trichloropropane  
Concen: 47.789 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.153 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

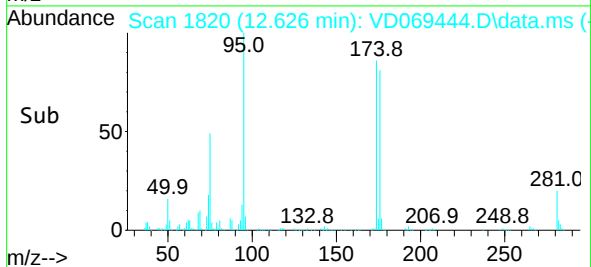
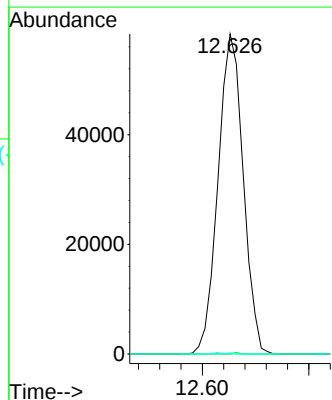
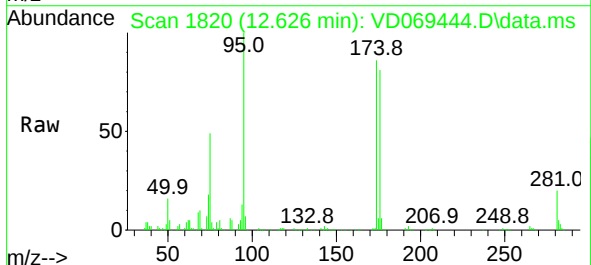
Instrument :  
MSVOA\_D  
ClientSampled :

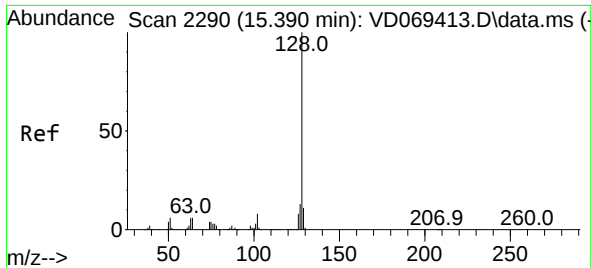
Tgt Ion: 75 Resp: 95598  
Ion Ratio Lower Upper  
75 100  
77 1.5 183.8 551.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 127.487 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.100 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Tgt Ion: 75 Resp: 95598  
Ion Ratio Lower Upper  
75 100  
53 0.1 62.6 94.0#  
89 0.2 35.6 53.4#





#95  
Naphthalene  
Concen: 4.229 ug/l  
RT: 15.391 min Scan# 2290  
Delta R.T. 0.001 min  
Lab File: VD069444.D  
Acq: 15 Jun 2021 14:42

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:128 Resp: 4849  
Ion Ratio Lower Upper  
128 100  
127 21.8 10.4 15.6#  
129 18.1 8.8 13.2#

