

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051921\  
 Data File : VD069189.D  
 Acq On : 19 May 2021 11:31  
 Operator : VA/SY  
 Sample : VD0519SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 20 00:59:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 2021  
 Response via : Initial Calibration

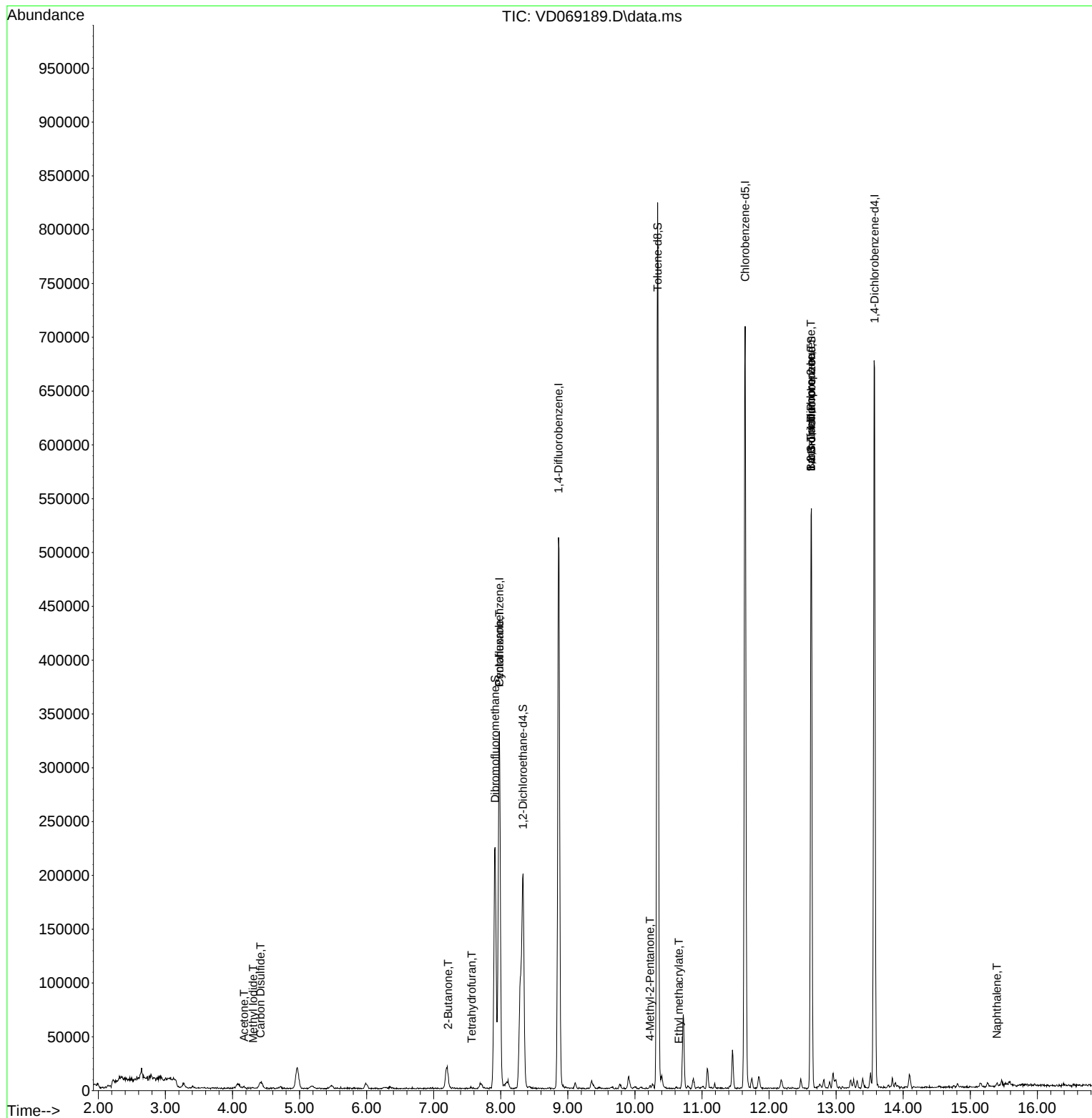
| Compound                      | R.T.           | QIon | Response           | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-----------|--------|----------|
| -----                         |                |      |                    |           |        |          |
| Internal Standards            |                |      |                    |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 237213             | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 447006             | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.643         | 117  | 421770             | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.573         | 152  | 181879             | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                    |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 151196             | 63.58     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 127.16% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 159233             | 54.74     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 109.48% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 558081             | 52.21     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 104.42% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.632         | 95   | 164943             | 47.96     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 95.92%  |           |        |          |
| Target Compounds              |                |      |                    |           |        |          |
|                               |                |      |                    |           | Qvalue |          |
| 10) Methyl Iodide             | 4.308          | 142  | 836                | 1.22      | ug/l # | 86       |
| 11) Tert butyl alcohol        | 5.197          | 59   | 1366               | Below Cal | #      | 73       |
| 16) Acetone                   | 4.173          | 43   | 2610               | 7.17      | ug/l # | 68       |
| 17) Carbon Disulfide          | 4.420          | 76   | 9923               | 1.26      | ug/l # | 90       |
| 20) Methylene Chloride        | 4.967          | 84   | 16417              | Below Cal | #      | 93       |
| 25) 2-Butanone                | 7.214          | 43   | 729                | 1.48      | ug/l # | 38       |
| 29) Tetrahydrofuran           | 7.567          | 42   | 319                | 1.19      | ug/l # | 51       |
| 31) Cyclohexane               | 7.979          | 56   | 7629               | 2.16      | ug/l # | 53       |
| 51) 4-Methyl-2-Pentanone      | 10.226         | 43   | 1710               | 1.31      | ug/l # | 81       |
| 56) Ethyl methacrylate        | 10.655         | 69   | 408                | 1.47      | ug/l   | 97       |
| 71) Bromoform                 | 12.626         | 173  | 1876               | 1.09      | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 83710              | 61.23     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 83710              | 123.68    | ug/l # | 14       |
| 95) Naphthalene               | 15.396         | 128  | 3501               | 2.61      | ug/l # | 84       |
| -----                         |                |      |                    |           |        |          |

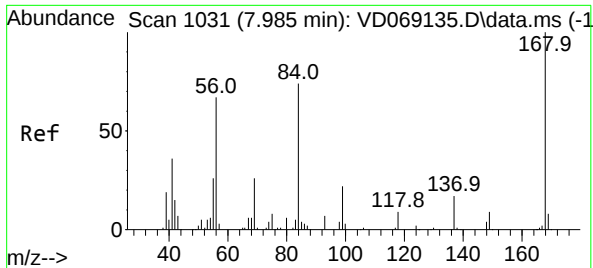
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051921\  
Data File : VD069189.D  
Acq On : 19 May 2021 11:31  
Operator : VA/SY  
Sample : VD0519SBL01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: May 20 00:59:01 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 13 04:01:29 2021  
Response via : Initial Calibration

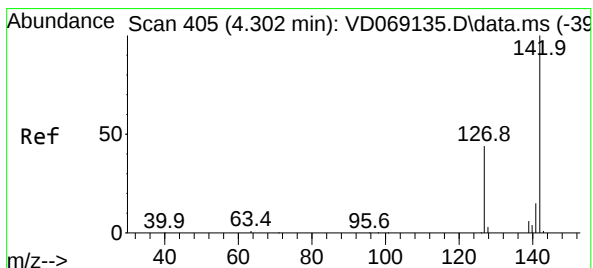
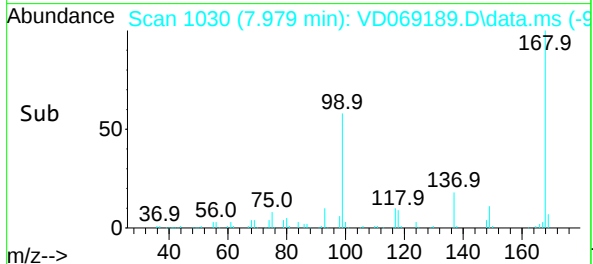
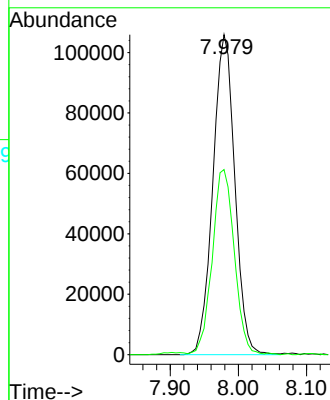
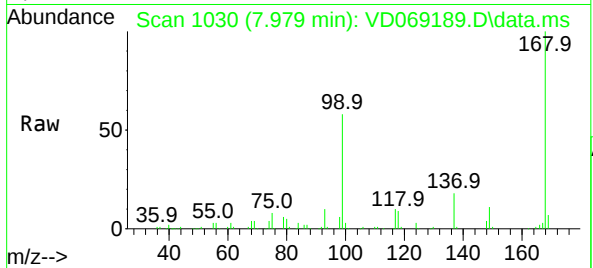




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

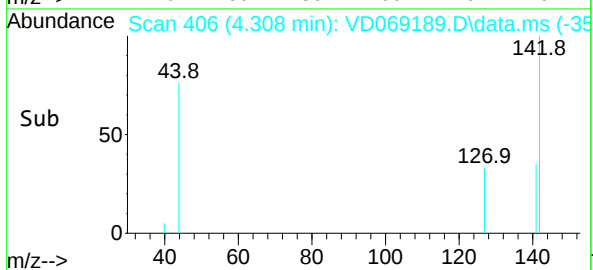
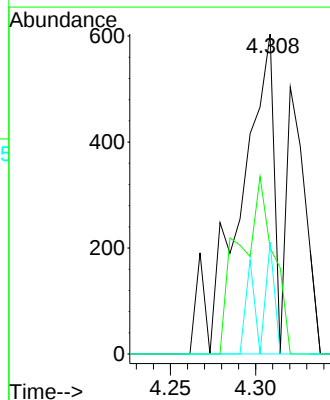
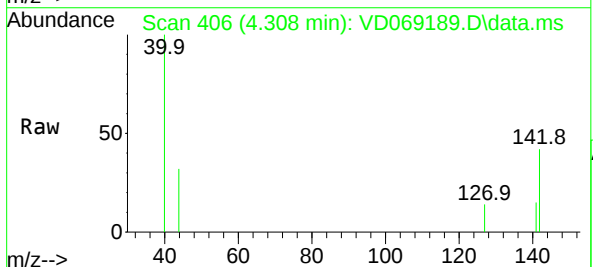
Instrument :  
MSVOA\_D  
ClientSampled :

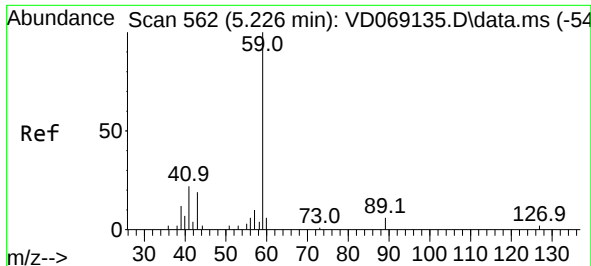
Tgt Ion:168 Resp: 237213  
Ion Ratio Lower Upper  
168 100  
99 57.9 47.2 70.8



#10  
Methyl Iodide  
Concen: 1.22 ug/l  
RT: 4.308 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Tgt Ion:142 Resp: 836  
Ion Ratio Lower Upper  
142 100  
127 55.1 37.3 55.9  
141 7.5 12.2 18.4#

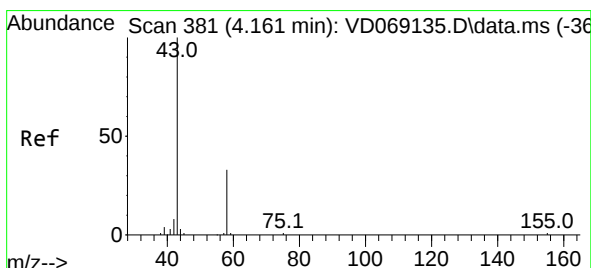
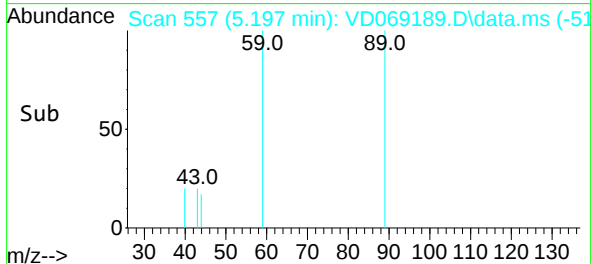
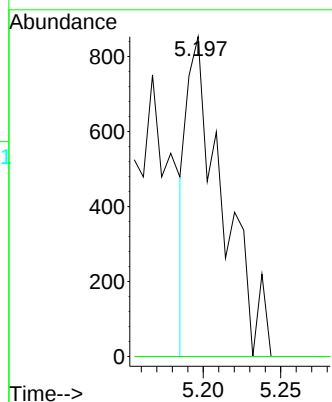
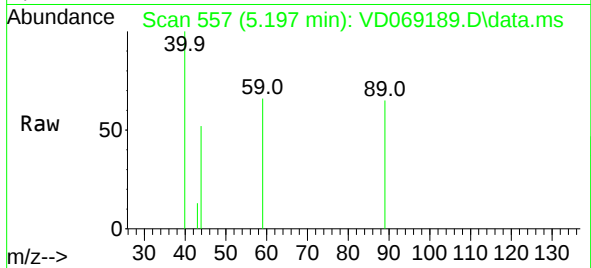




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.197 min Scan# 557  
Delta R.T. -0.029 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

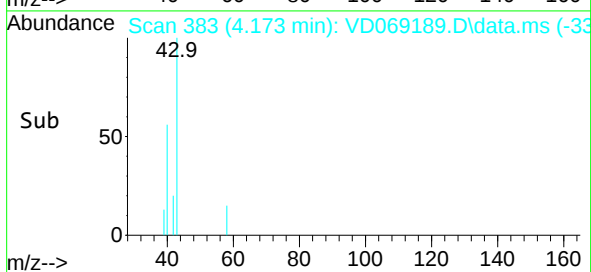
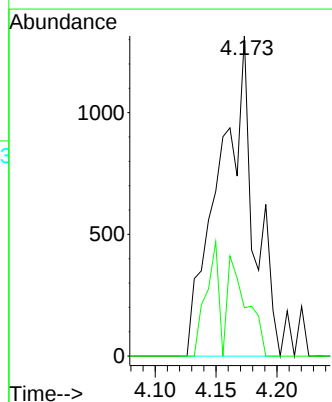
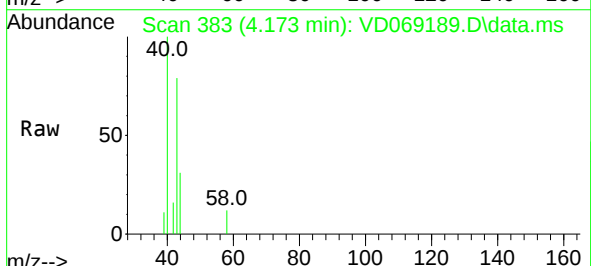
Instrument :  
MSVOA\_D  
ClientSampleId :

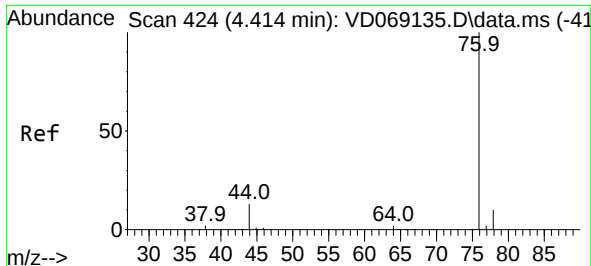
Tgt Ion: 59 Resp: 1366  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#



#16  
Acetone  
Concen: 7.17 ug/l  
RT: 4.173 min Scan# 383  
Delta R.T. 0.012 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

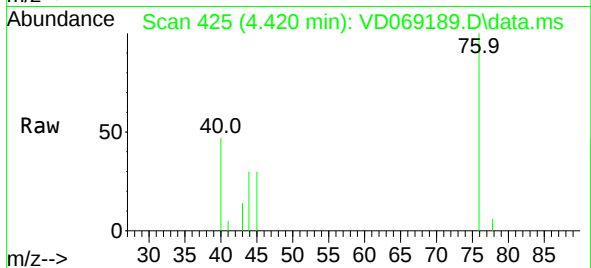
Tgt Ion: 43 Resp: 2610  
Ion Ratio Lower Upper  
43 100  
58 15.1 26.7 40.1#



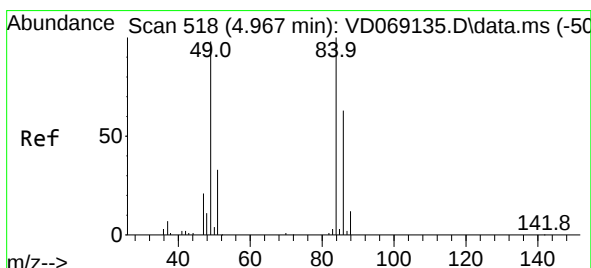
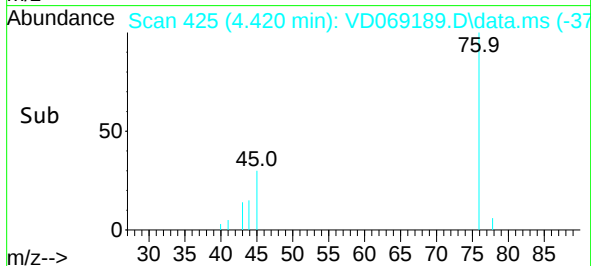
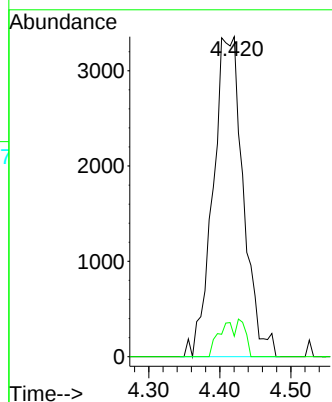


#17  
Carbon Disulfide  
Concen: 1.26 ug/l  
RT: 4.420 min Scan# 425  
Delta R.T. 0.006 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Instrument :  
MSVOA\_D  
ClientSampled :

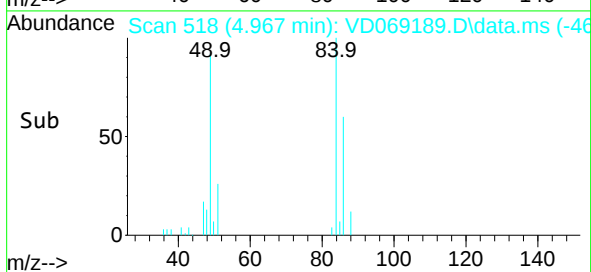
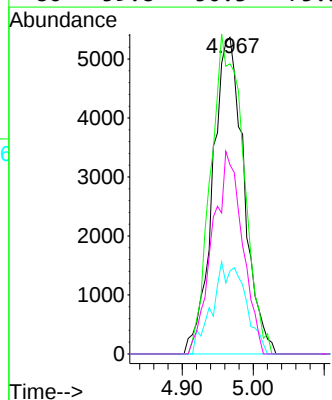
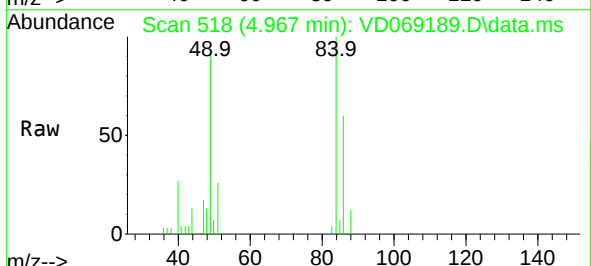


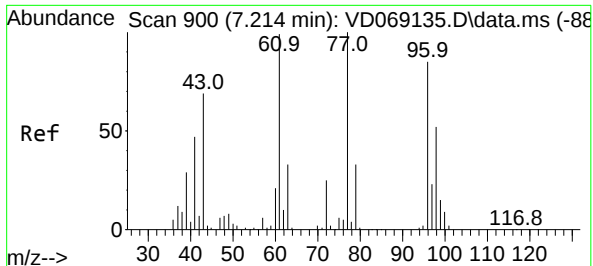
Tgt Ion: 76 Resp: 9923  
Ion Ratio Lower Upper  
76 100  
78 6.4 8.1 12.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.967 min Scan# 518  
Delta R.T. 0.000 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Tgt Ion: 84 Resp: 16417  
Ion Ratio Lower Upper  
84 100  
49 91.7 78.6 117.8  
51 26.2 26.7 40.1#  
86 59.8 50.3 75.5

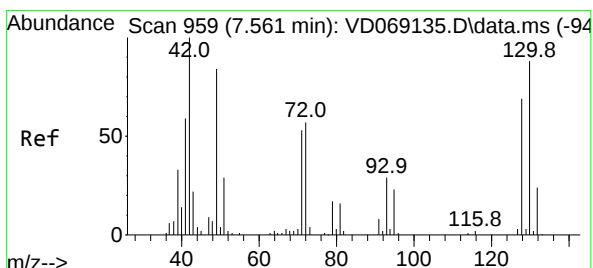
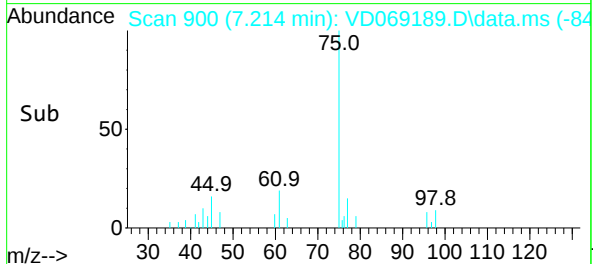
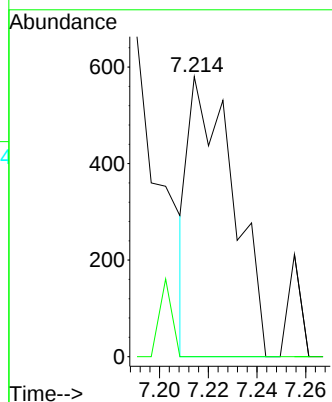
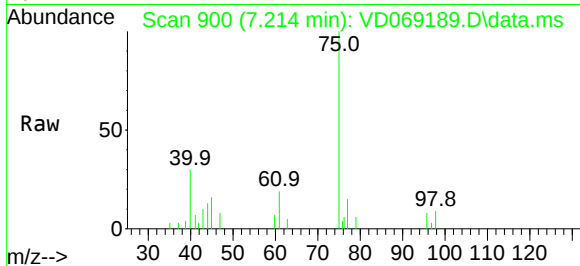




#25  
2-Butanone  
Concen: 1.48 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. 0.000 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

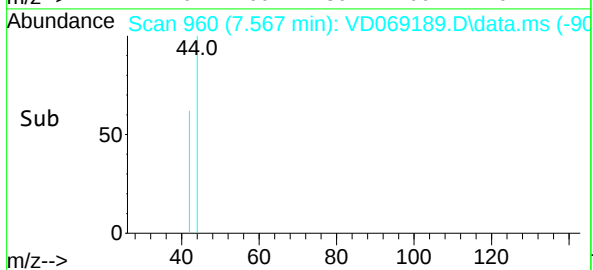
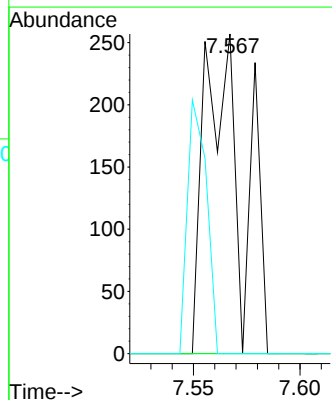
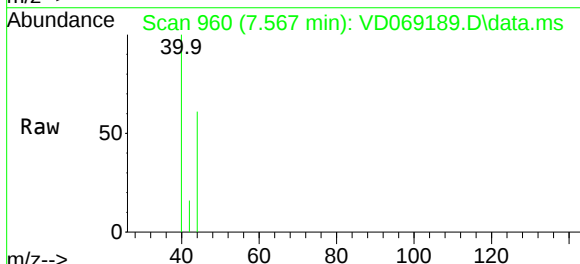
Instrument :  
MSVOA\_D  
ClientSampleId :

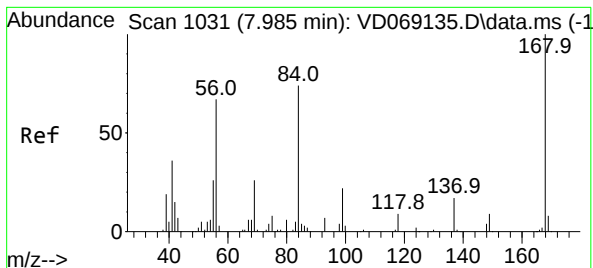
Tgt Ion: 43 Resp: 729  
Ion Ratio Lower Upper  
43 100  
72 0.0 29.1 43.7#



#29  
Tetrahydrofuran  
Concen: 1.19 ug/l  
RT: 7.567 min Scan# 960  
Delta R.T. 0.006 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Tgt Ion: 42 Resp: 319  
Ion Ratio Lower Upper  
42 100  
72 0.0 45.9 68.9#  
71 39.8 42.9 64.3#

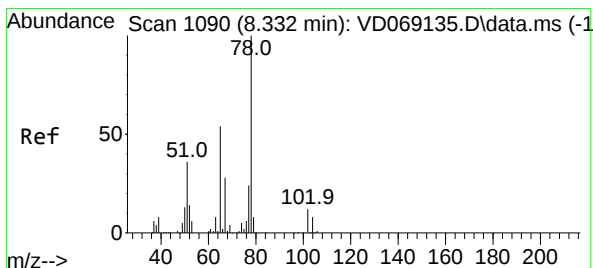
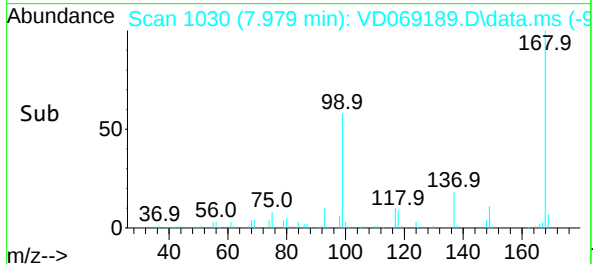
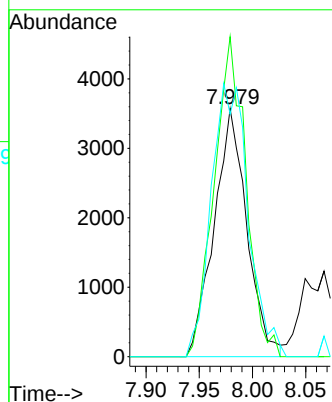
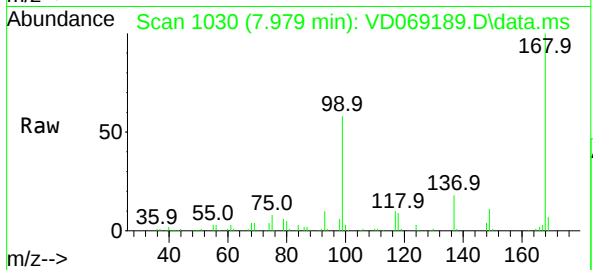




#31  
Cyclohexane  
Concen: 2.16 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

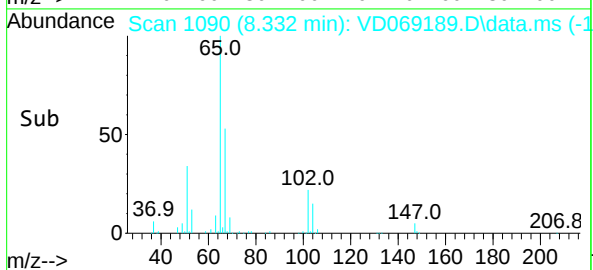
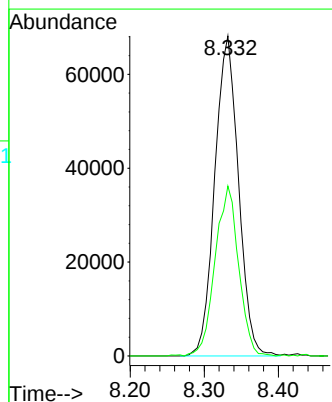
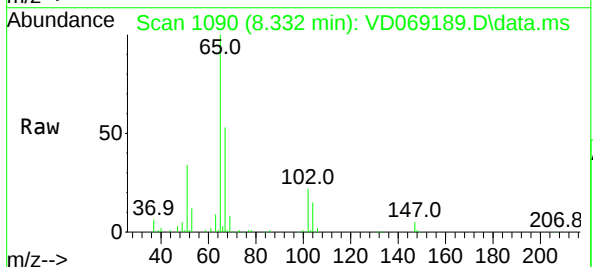
Instrument :  
MSVOA\_D  
ClientSampleId :

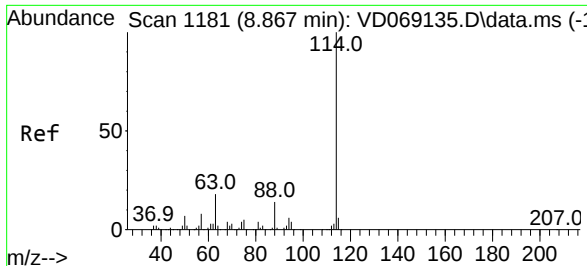
Tgt Ion: 56 Resp: 7629  
Ion Ratio Lower Upper  
56 100  
69 129.0 30.6 46.0#  
84 97.8 88.0 132.0



#33  
1,2-Dichloroethane-d4  
Concen: 63.58 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Tgt Ion: 65 Resp: 151196  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.861 min Scan# 1180

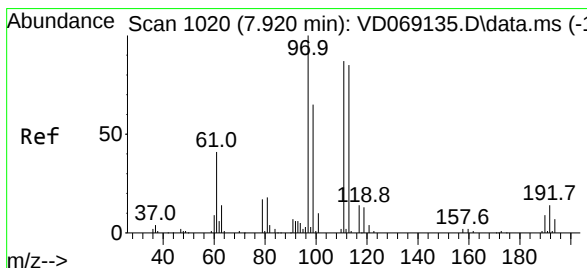
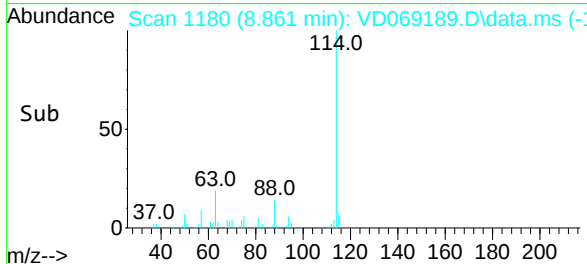
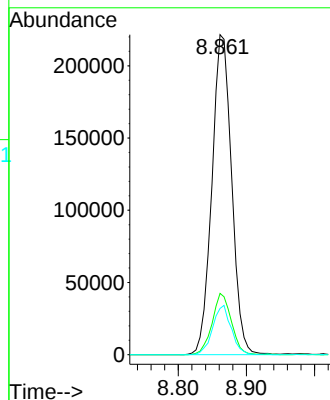
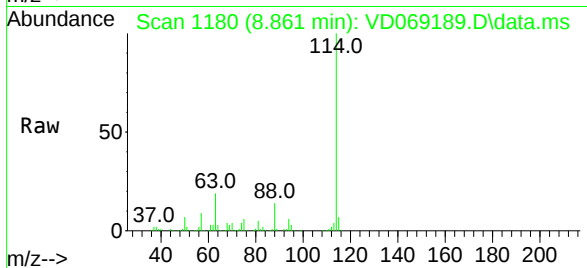
Delta R.T. -0.006 min

Lab File: VD069189.D

Acq: 19 May 2021 11:31

Instrument :  
MSVOA\_D  
ClientSampleId :

|             |              |
|-------------|--------------|
| Tgt Ion:114 | Resp: 447006 |
| Ion Ratio   | Lower Upper  |
| 114 100     |              |
| 63 19.1     | 0.0 36.4     |
| 88 14.5     | 0.0 28.2     |



#35

Dibromofluoromethane

Concen: 54.74 ug/l

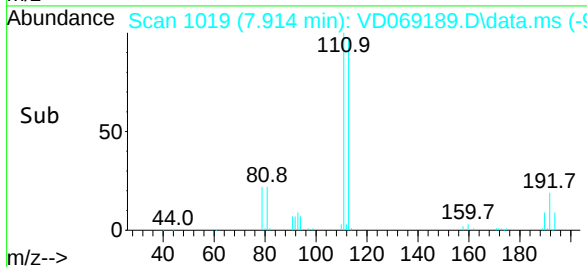
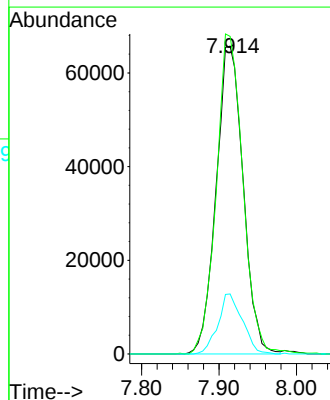
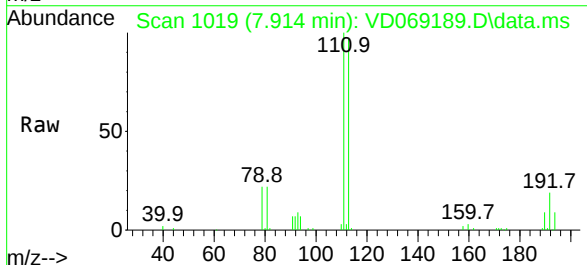
RT: 7.914 min Scan# 1019

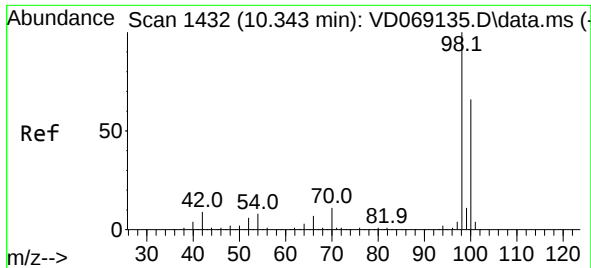
Delta R.T. -0.006 min

Lab File: VD069189.D

Acq: 19 May 2021 11:31

|             |              |
|-------------|--------------|
| Tgt Ion:113 | Resp: 159233 |
| Ion Ratio   | Lower Upper  |
| 113 100     |              |
| 111 102.3   | 80.6 120.8   |
| 192 17.6    | 14.8 22.2    |

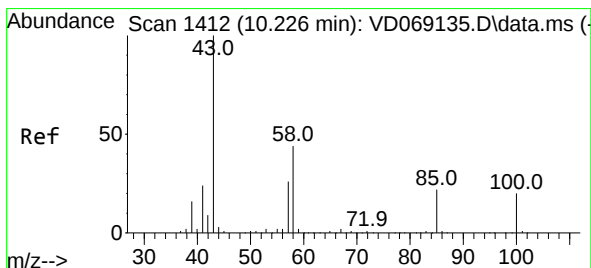
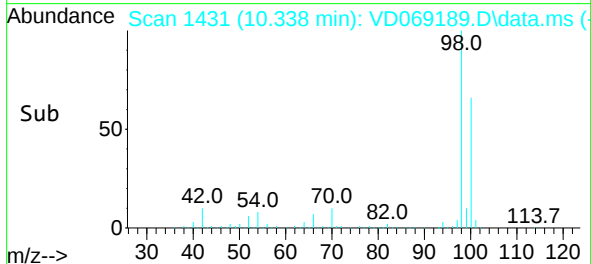
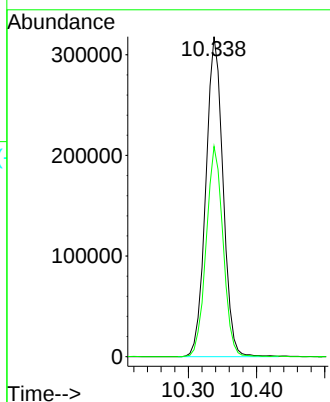
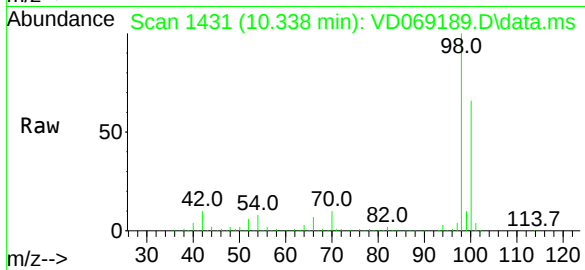




#50  
Toluene-d8  
Concen: 52.21 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

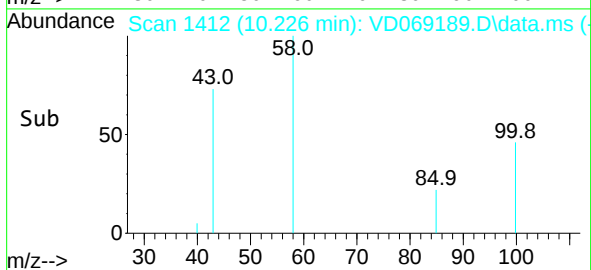
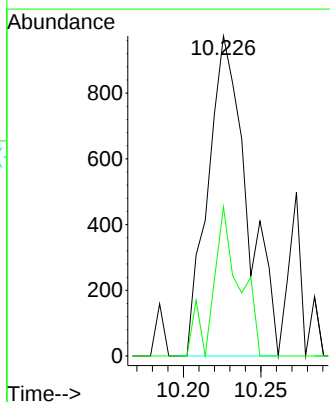
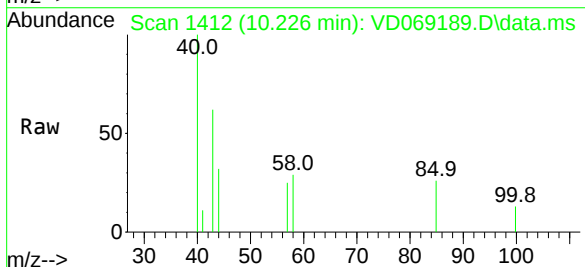
Instrument :  
MSVOA\_D  
ClientSampled :

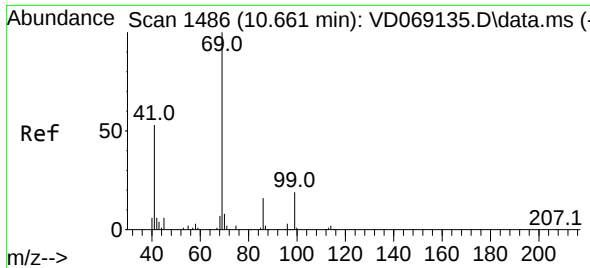
Tgt Ion: 98 Resp: 558081  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.8 77.8



#51  
4-Methyl-2-Pentanone  
Concen: 1.31 ug/l  
RT: 10.226 min Scan# 1412  
Delta R.T. 0.000 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Tgt Ion: 43 Resp: 1710  
Ion Ratio Lower Upper  
43 100  
58 31.6 35.0 52.4#

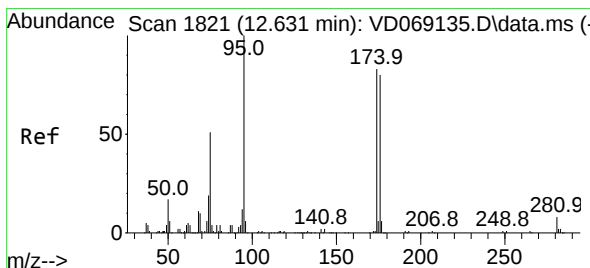
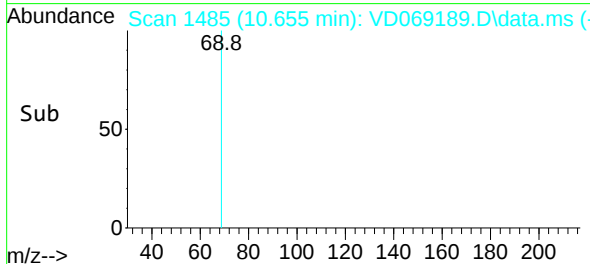
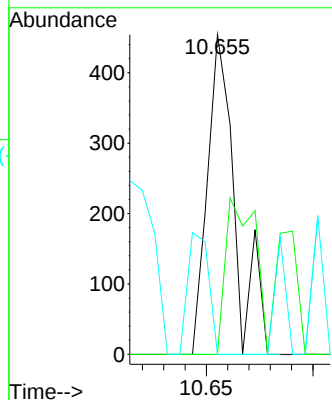
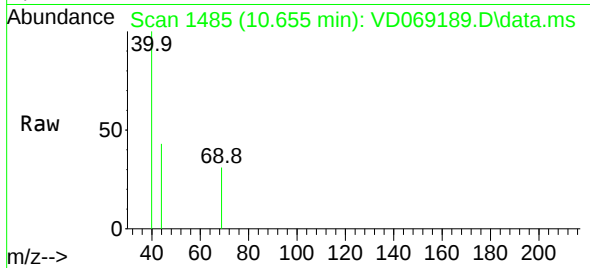




#56  
Ethyl methacrylate  
Concen: 1.47 ug/l  
RT: 10.655 min Scan# 1485  
Delta R.T. -0.006 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

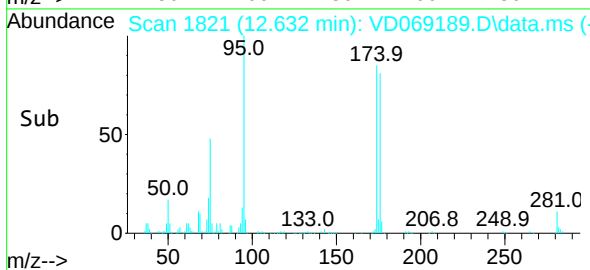
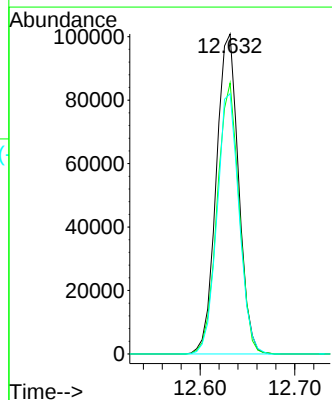
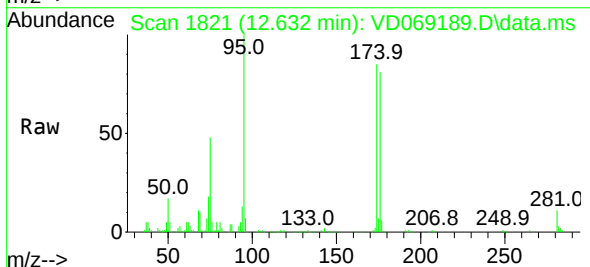
Instrument :  
MSVOA\_D  
ClientSampleId :

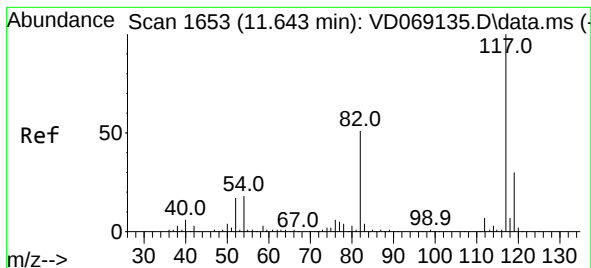
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 408   |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 52.7  | 42.2  | 63.2  |
| 39       | 28.9  | 26.3  | 39.5  |



#62  
4-Bromofluorobenzene  
Concen: 47.96 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 164943 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 83.2  | 0.0   | 171.8  |
| 176      | 80.6  | 0.0   | 165.4  |

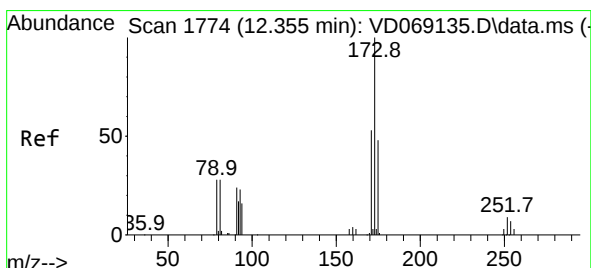
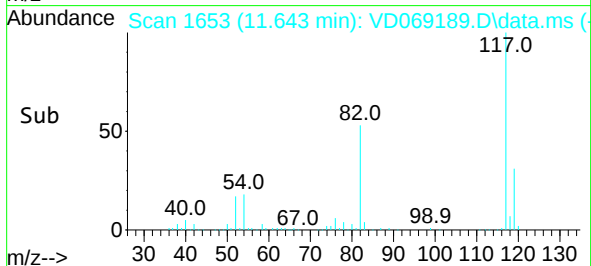
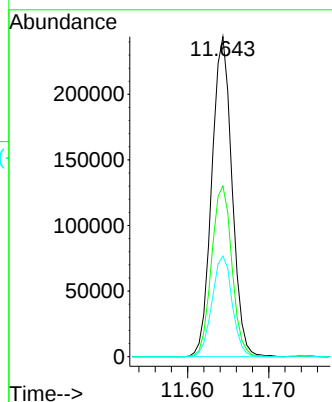
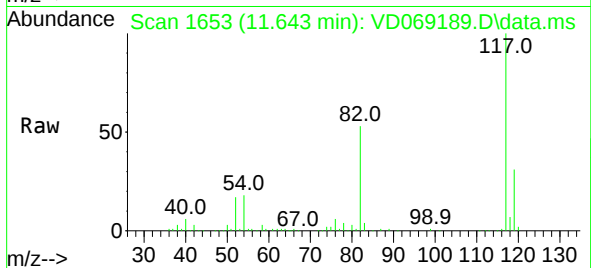




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.643 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

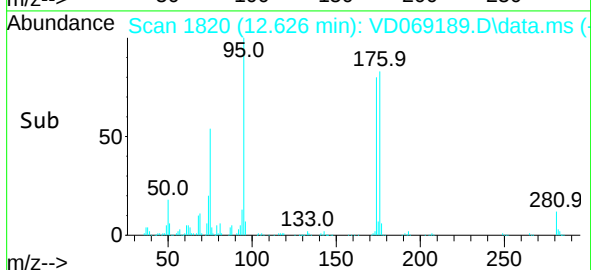
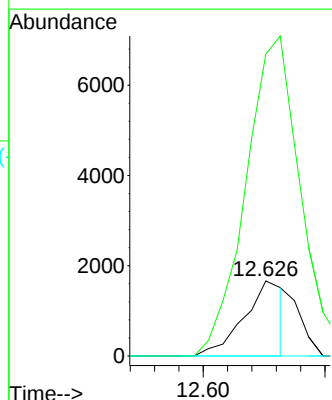
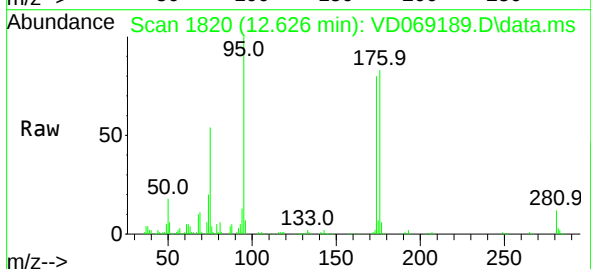
Instrument :  
MSVOA\_D  
ClientSampled :

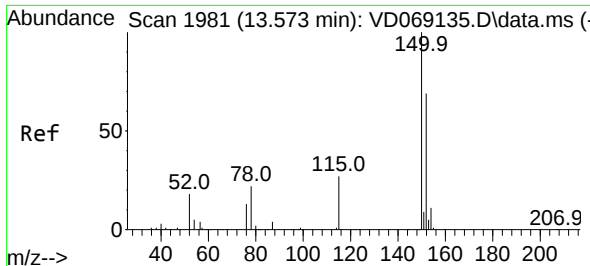
Tgt Ion:117 Resp: 421770  
Ion Ratio Lower Upper  
117 100  
82 53.4 40.5 60.7  
119 31.4 24.2 36.4



#71  
Bromoform  
Concen: 1.09 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.271 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Tgt Ion:173 Resp: 1876  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.0 0.0

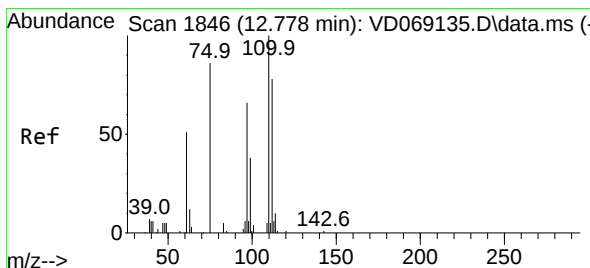
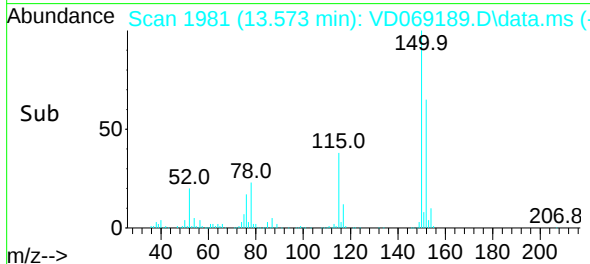
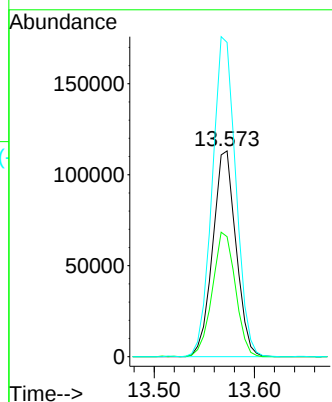
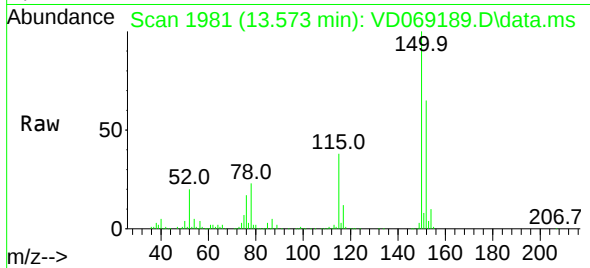




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.573 min Scan# 1981  
Delta R.T. 0.000 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

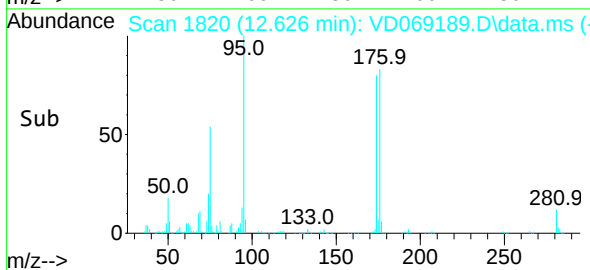
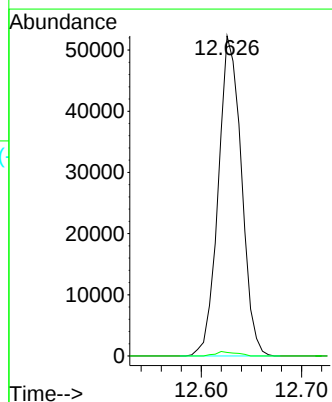
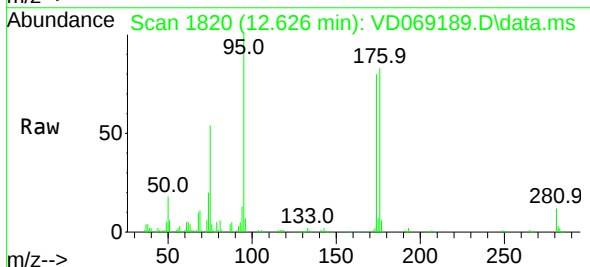
Instrument :  
MSVOA\_D  
ClientSampled :

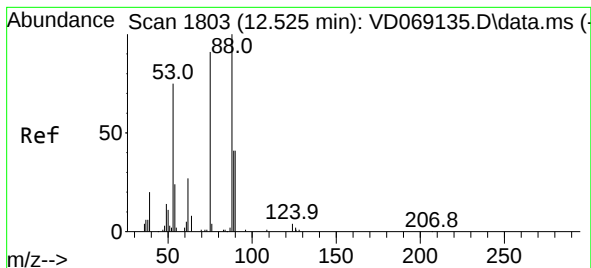
Tgt Ion:152 Resp: 181879  
Ion Ratio Lower Upper  
152 100  
115 60.1 29.9 89.8  
150 158.0 0.0 350.2



#76  
1,2,3-Trichloropropane  
Concen: 61.23 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.153 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Tgt Ion: 75 Resp: 83710  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#

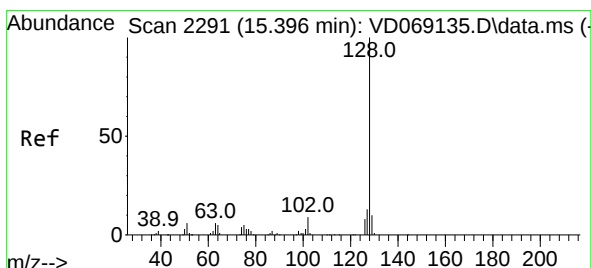
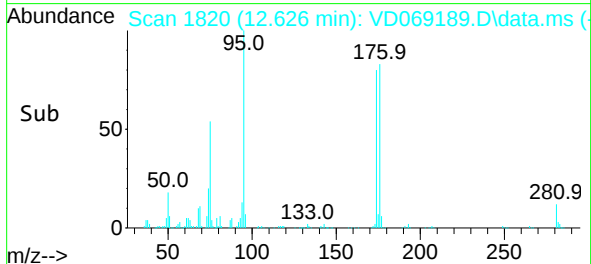
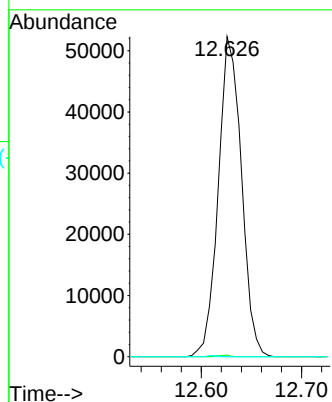
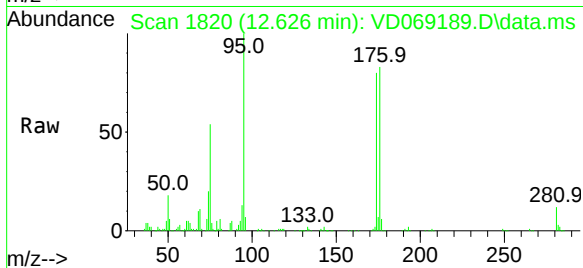




#81  
trans-1,4-Dichloro-2-butene  
Concen: 123.68 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.100 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Instrument :  
MSVOA\_D  
ClientSampled :

Tgt Ion: 75 Resp: 83710  
Ion Ratio Lower Upper  
75 100  
53 0.2 70.0 105.0#  
89 0.1 40.2 60.2#



#95  
Naphthalene  
Concen: 2.61 ug/l  
RT: 15.396 min Scan# 2291  
Delta R.T. 0.000 min  
Lab File: VD069189.D  
Acq: 19 May 2021 11:31

Tgt Ion:128 Resp: 3501  
Ion Ratio Lower Upper  
128 100  
127 7.7 10.5 15.7#  
129 3.8 8.9 13.3#

