

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092421\  
 Data File : VD070455.D  
 Acq On : 24 Sep 2021 15:24  
 Operator : VA/SY  
 Sample : M3908-01  
 Misc : 6.60G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Sep 25 03:08:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

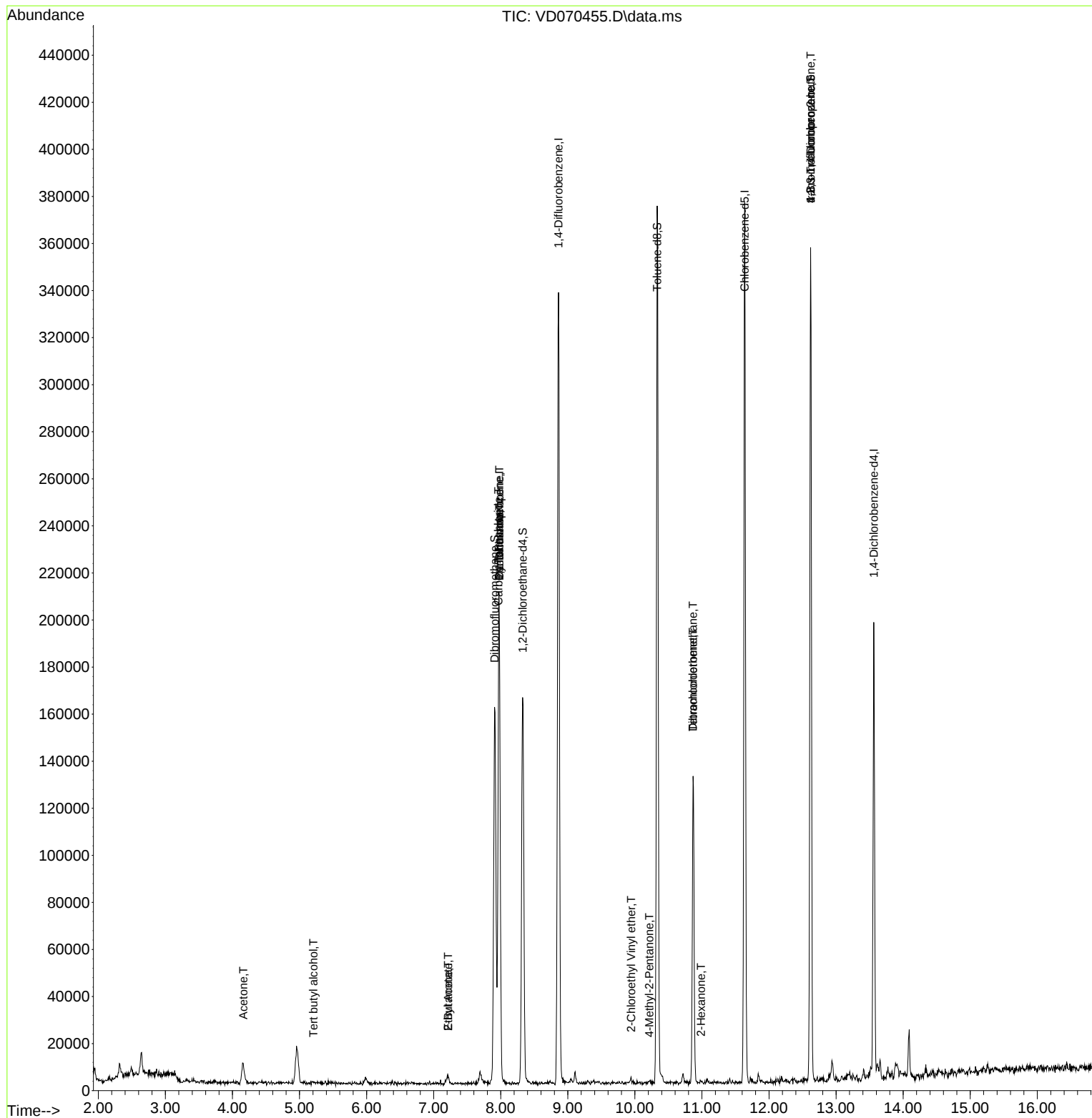
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 146805   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 296838   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 222868   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 48620    | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 135084   | 71.662    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 143.320% |
| 35) Dibromofluoromethane      | 7.909  | 113   | 120587   | 57.071    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 114.140% |
| 50) Toluene-d8                | 10.332 | 98    | 264636   | 34.496    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 69.000%  |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 60411    | 22.532    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 45.060%  |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.991  | 85    | 255      | Below Cal | #      | 43       |
| 3) Chloromethane              | 2.203  | 50    | 564      | Below Cal | #      | 3        |
| 5) Bromomethane               | 2.779  | 94    | 718      | Below Cal | #      | 64       |
| 6) Chloroethane               | 2.938  | 64    | 58       | Below Cal | #      | 43       |
| 11) Tert butyl alcohol        | 5.209  | 59    | 1057     | 4.959     | ug/l # | 100      |
| 16) Acetone                   | 4.162  | 43    | 14686    | 43.638    | ug/l   | 90       |
| 18) Methyl Acetate            | 4.726  | 43    | 386      | Below Cal | #      | 48       |
| 20) Methylene Chloride        | 4.956  | 84    | 12730    | Below Cal | #      | 77       |
| 25) 2-Butanone                | 7.215  | 43    | 3366     | 7.514     | ug/l # | 70       |
| 31) Cyclohexane               | 7.979  | 56    | 3314     | 1.021     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 13450    | 4.239     | ug/l # | 47       |
| 37) Ethyl Acetate             | 7.215  | 43    | 3366     | 2.837     | ug/l # | 83       |
| 38) Carbon Tetrachloride      | 7.967  | 117   | 16435    | 5.238     | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.214 | 43    | 1176     | 1.036     | ug/l # | 41       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63    | 1070     | 1.177     | ug/l   | 91       |
| 59) 2-Hexanone                | 10.985 | 43    | 912      | 1.204     | ug/l # | 57       |
| 60) Dibromochloromethane      | 10.867 | 129   | 29724    | 14.780    | ug/l # | 11       |
| 64) Tetrachloroethene         | 10.867 | 164   | 30334    | 22.355    | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 30485    | 61.987    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 30485    | 155.314   | ug/l # | 18       |
| -----                         |        |       |          |           |        |          |

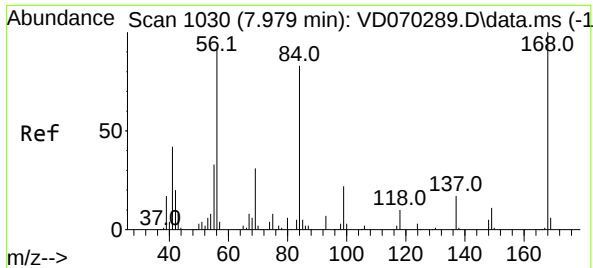
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Sep 09 03:07:09 2021  
Response via : Initial Calibration

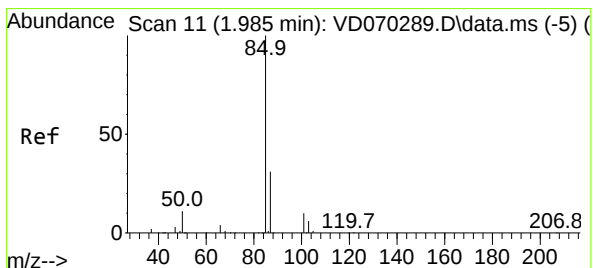
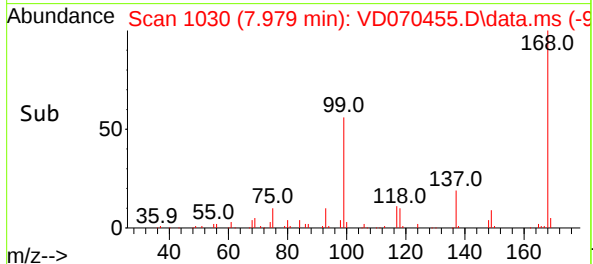
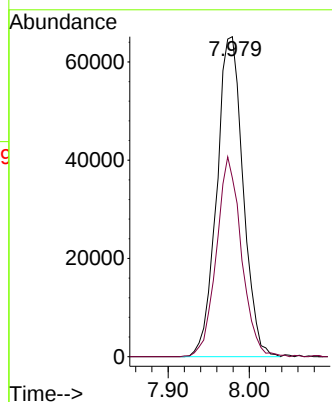
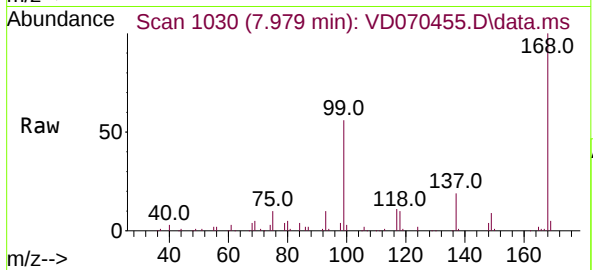




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

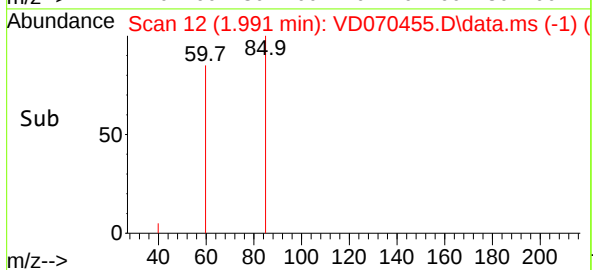
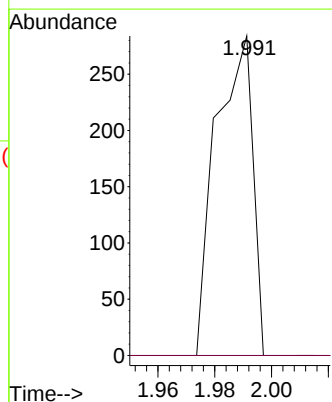
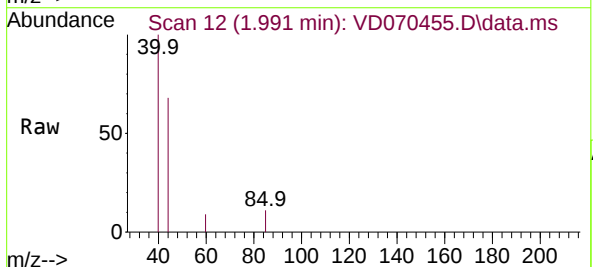
Instrument :  
MSVOA\_D  
ClientSampleId :

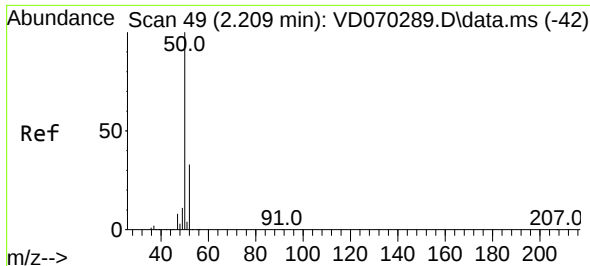
Tgt Ion:168 Resp: 146805  
Ion Ratio Lower Upper  
168 100  
99 55.9 50.8 76.2



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.991 min Scan# 12  
Delta R.T. 0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion: 85 Resp: 255  
Ion Ratio Lower Upper  
85 100  
87 0.0 15.6 46.8#

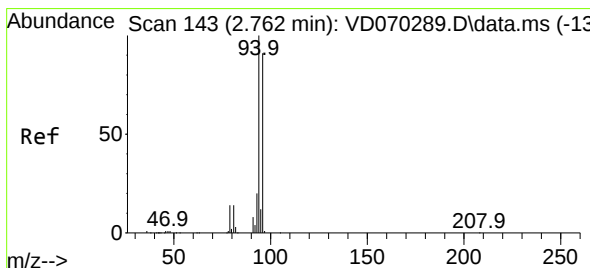
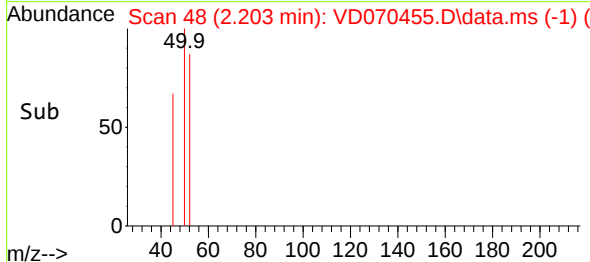
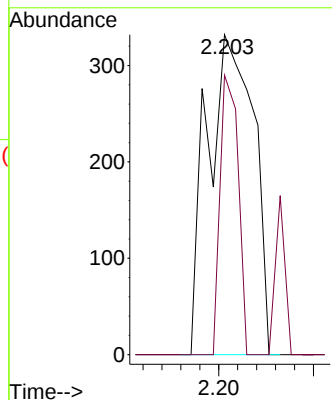
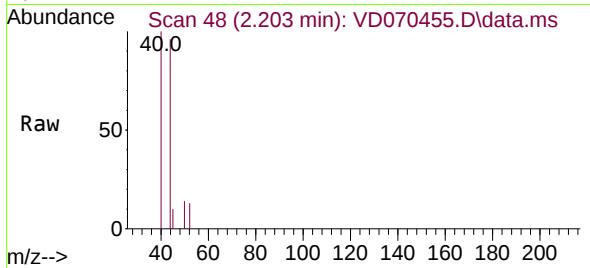




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.203 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

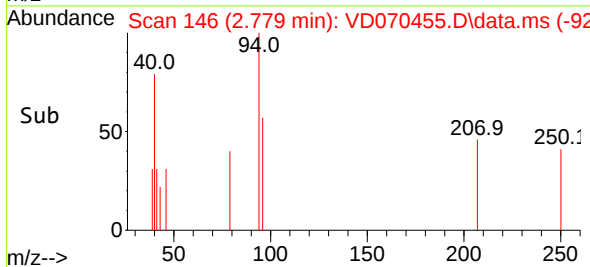
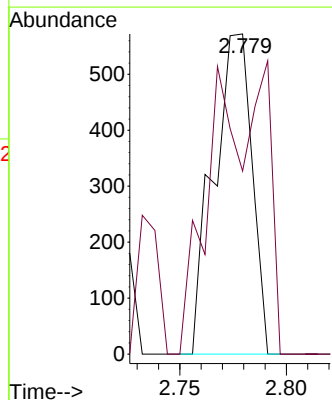
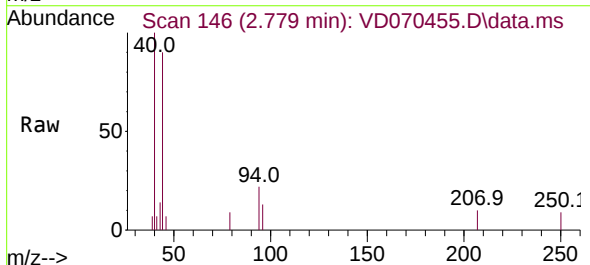
Instrument :  
MSVOA\_D  
ClientSampleId :

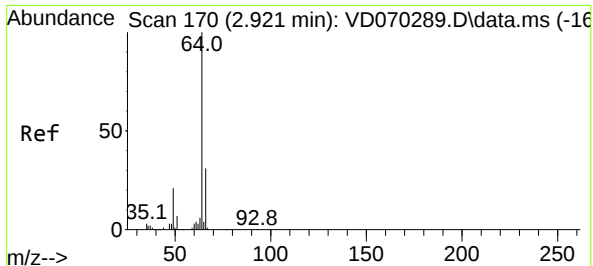
Tgt Ion: 50 Resp: 564  
Ion Ratio Lower Upper  
50 100  
52 87.3 26.2 39.2#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.017 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion: 94 Resp: 718  
Ion Ratio Lower Upper  
94 100  
96 57.2 73.0 109.6#

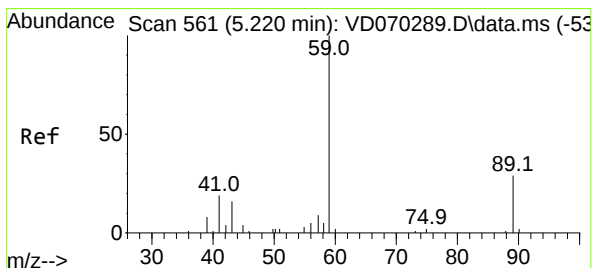
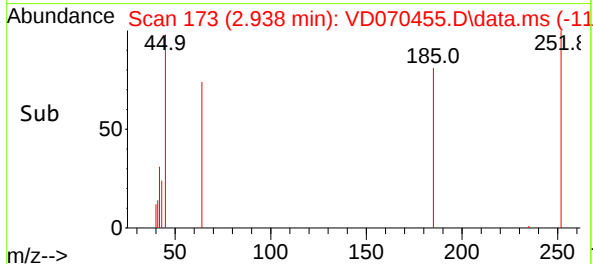
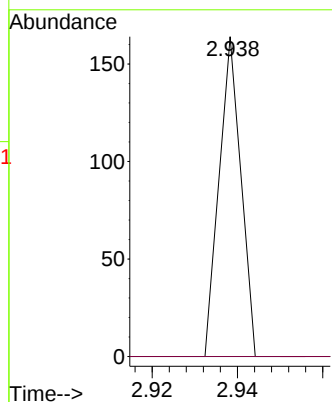
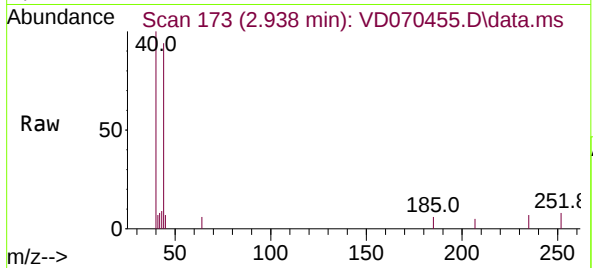




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.938 min Scan# 173  
Delta R.T. 0.017 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

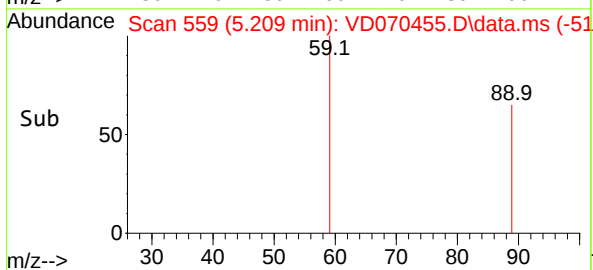
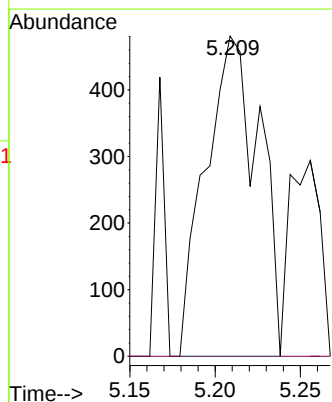
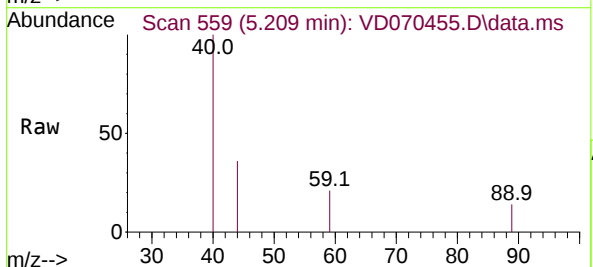
Instrument :  
MSVOA\_D  
ClientSampled :

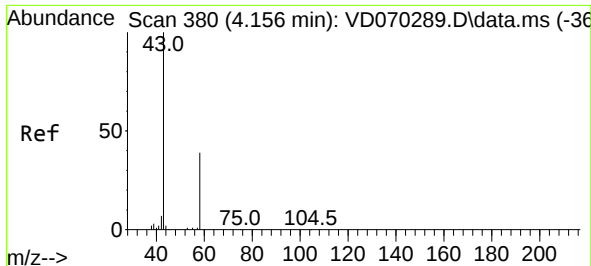
Tgt Ion: 64 Resp: 58  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.0 37.4#



#11  
Tert butyl alcohol  
Concen: 4.959 ug/l  
RT: 5.209 min Scan# 559  
Delta R.T. -0.011 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion: 59 Resp: 1057  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0

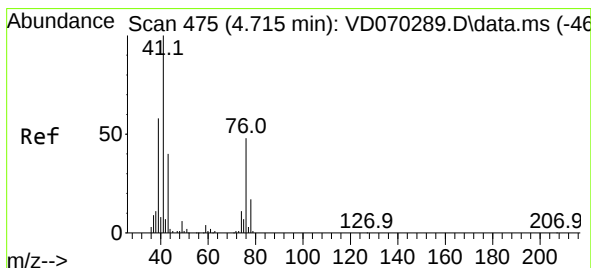
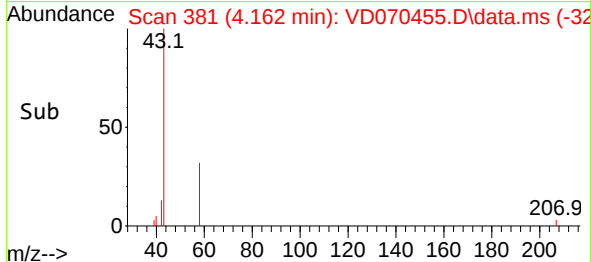
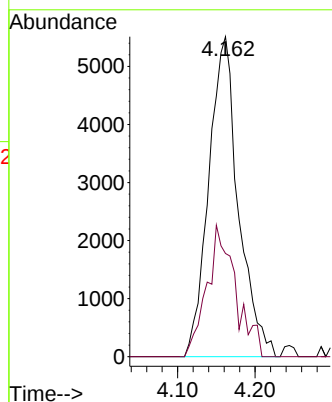
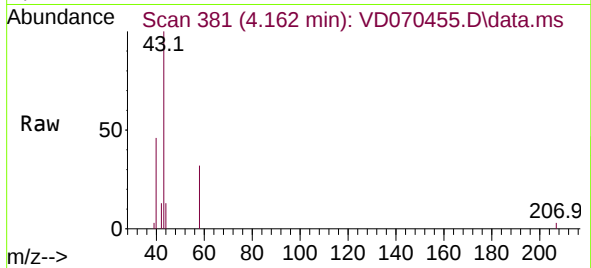




#16  
Acetone  
Concen: 43.638 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

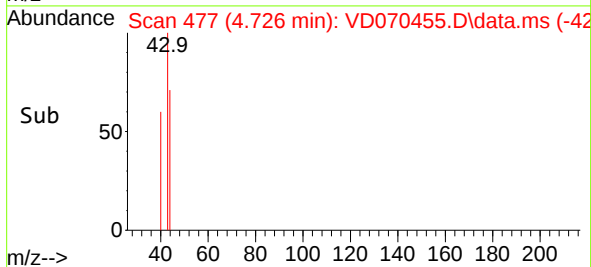
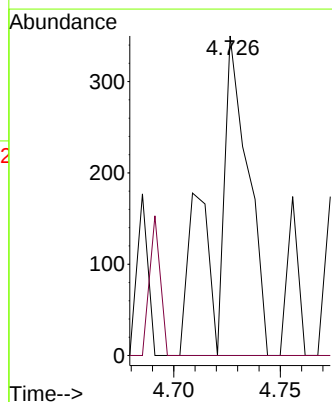
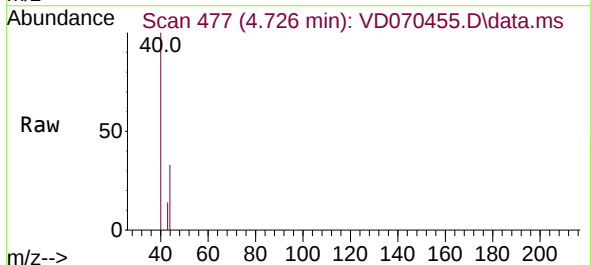
Instrument :  
MSVOA\_D  
ClientSampleId :

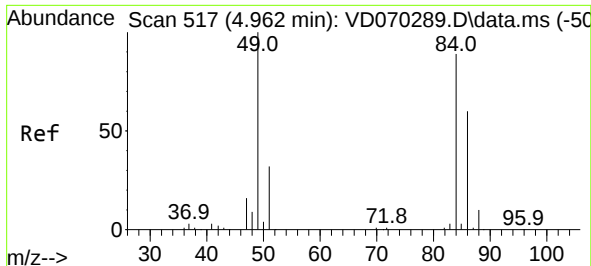
Tgt Ion: 43 Resp: 14686  
Ion Ratio Lower Upper  
43 100  
58 32.3 30.9 46.3



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.726 min Scan# 477  
Delta R.T. 0.011 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

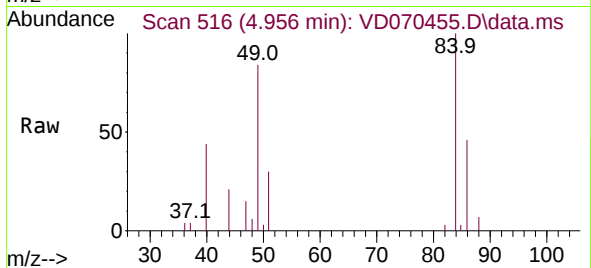
Tgt Ion: 43 Resp: 386  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.6 32.4#



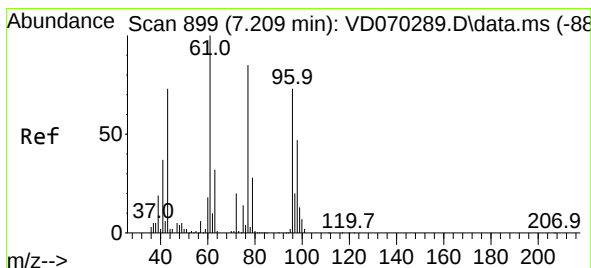
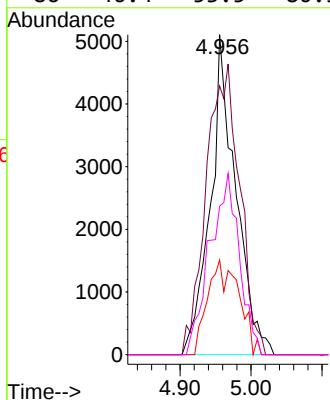
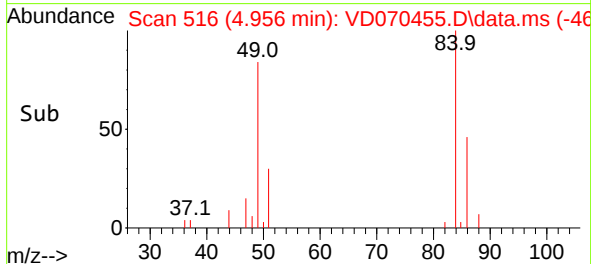


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 516  
Delta R.T. -0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

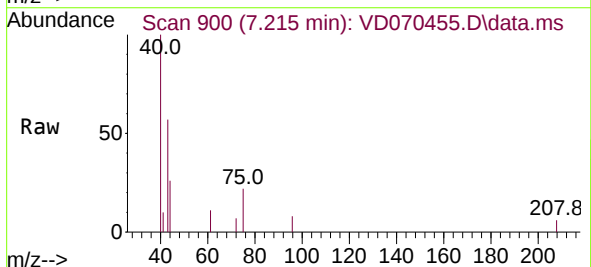
Instrument :  
MSVOA\_D  
ClientSampleId :



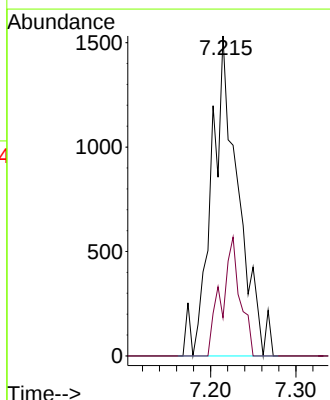
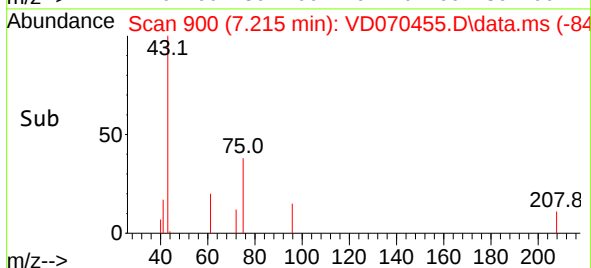
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 12730  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 84.0  | 89.6  | 134.4# |
| 51       | 29.6  | 28.6  | 43.0   |
| 86       | 46.4  | 53.5  | 80.3#  |

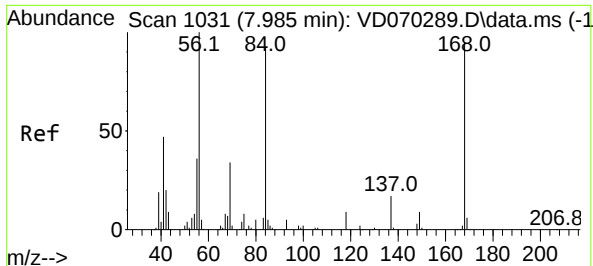


#25  
2-Butanone  
Concen: 7.514 ug/l  
RT: 7.215 min Scan# 900  
Delta R.T. 0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3366  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 11.9  | 22.2  | 33.4# |

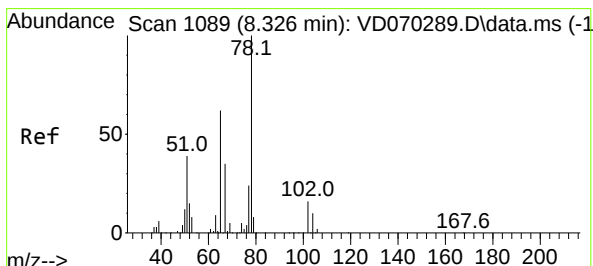
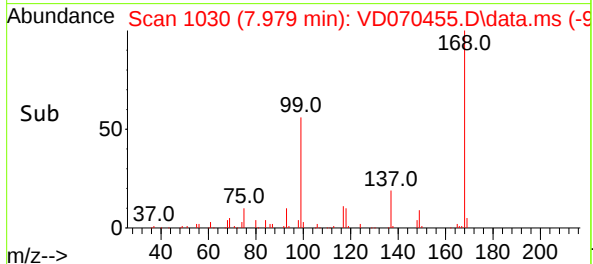
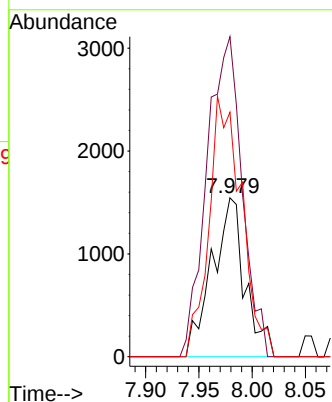
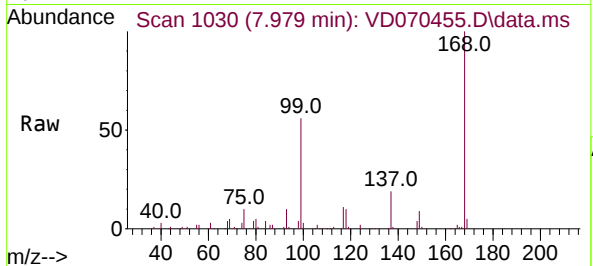




#31  
Cyclohexane  
Concen: 1.021 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

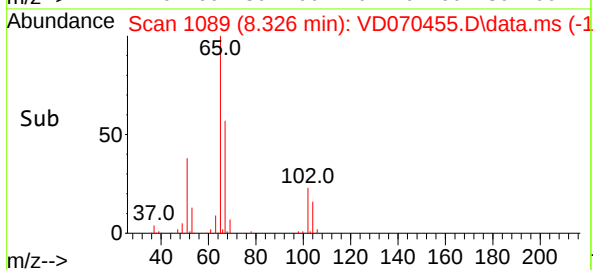
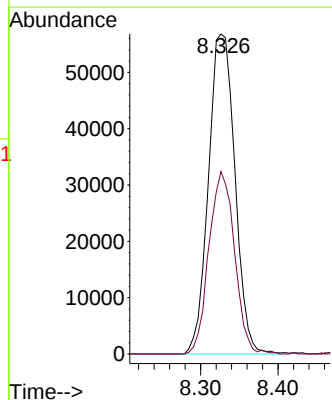
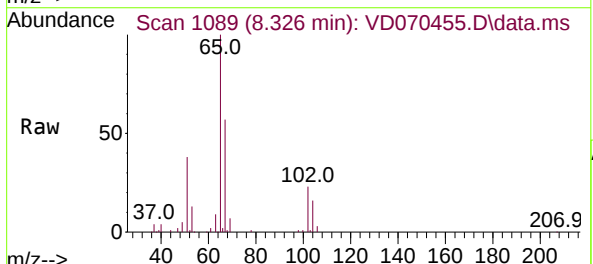
Instrument :  
MSVOA\_D  
ClientSampleId :

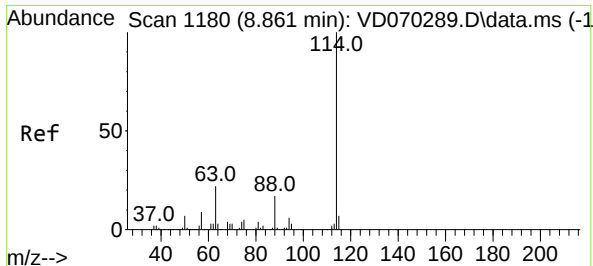
Tgt Ion: 56 Resp: 3314  
Ion Ratio Lower Upper  
56 100  
69 201.3 26.9 40.3#  
84 153.8 73.6 110.4#



#33  
1,2-Dichloroethane-d4  
Concen: 71.662 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion: 65 Resp: 135084  
Ion Ratio Lower Upper  
65 100  
67 55.1 0.0 111.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

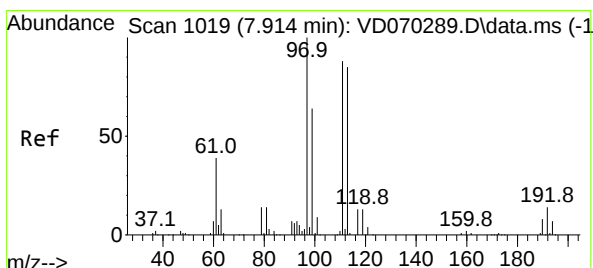
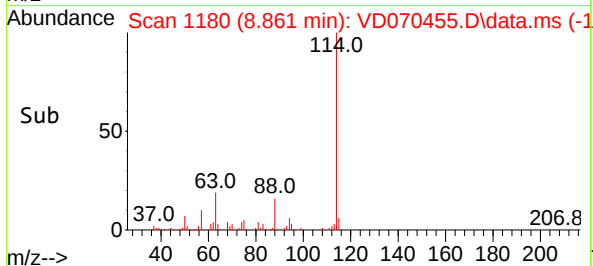
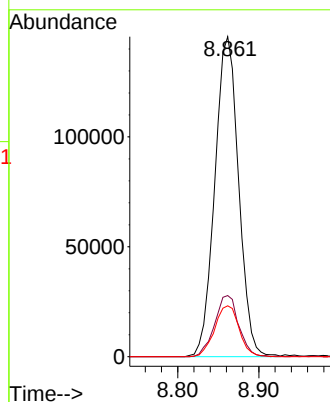
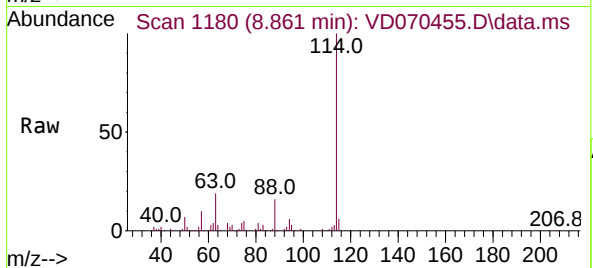
Delta R.T. 0.000 min

Lab File: VD070455.D

Acq: 24 Sep 2021 15:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 296838 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 19.1  | 0.0   | 43.4   |
| 88        | 15.9  | 0.0   | 33.4   |

Instrument :  
MSVOA\_D  
ClientSampleId :



#35

Dibromofluoromethane

Concen: 57.071 ug/l

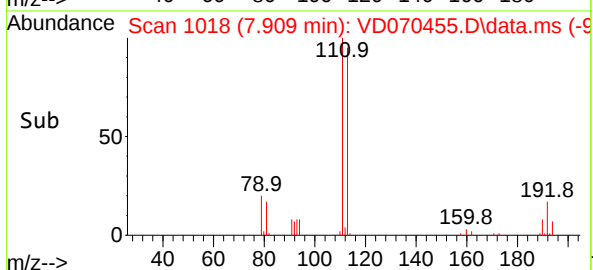
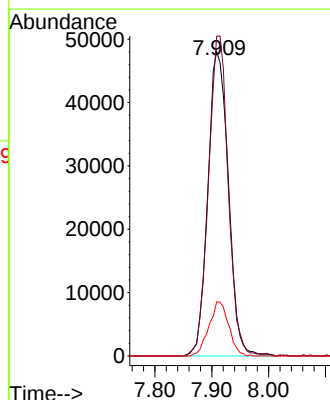
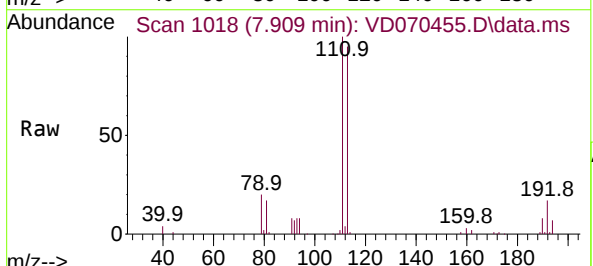
RT: 7.909 min Scan# 1018

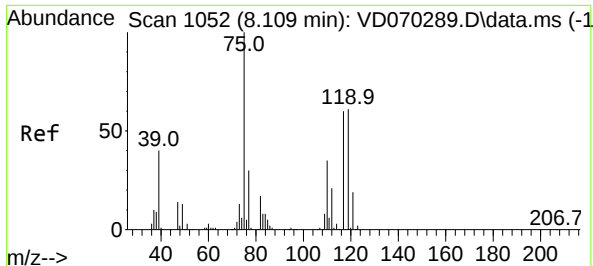
Delta R.T. -0.006 min

Lab File: VD070455.D

Acq: 24 Sep 2021 15:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 120587 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 100.8 | 81.4  | 122.2  |
| 192       | 17.2  | 13.0  | 19.6   |

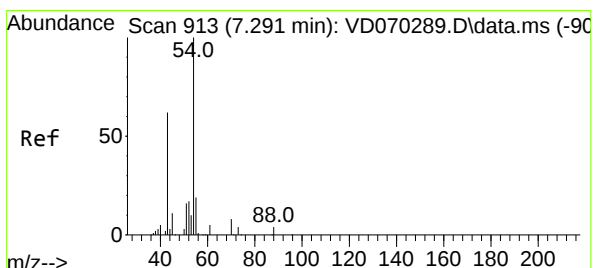
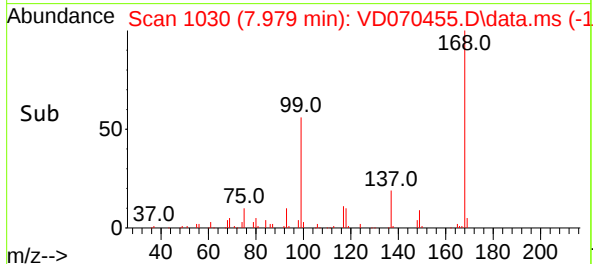
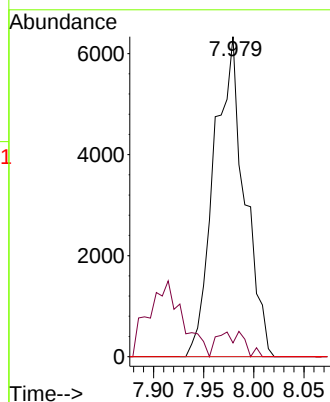
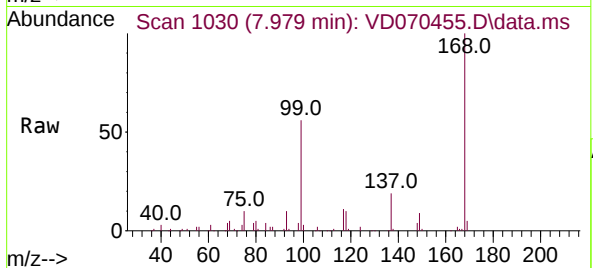




#36  
1,1-Dichloropropene  
Concen: 4.239 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.129 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

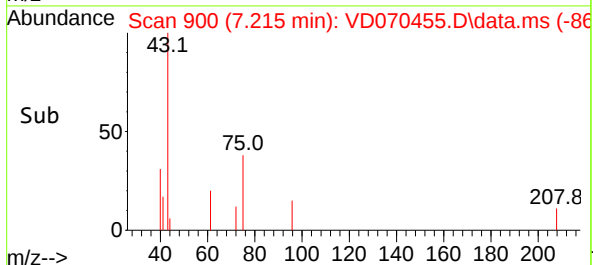
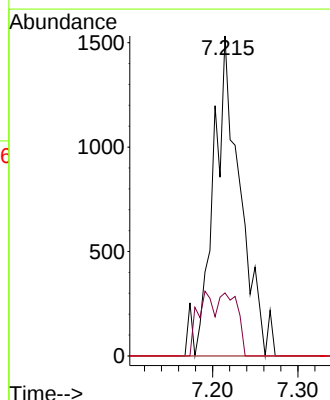
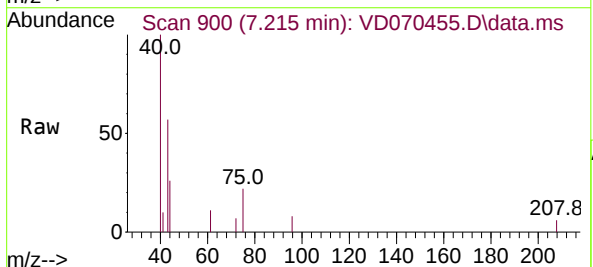
Instrument :  
MSVOA\_D  
ClientSampleId :

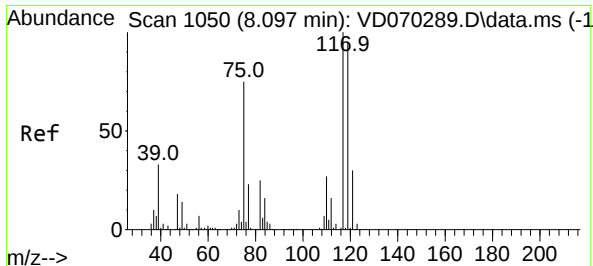
Tgt Ion: 75 Resp: 13450  
Ion Ratio Lower Upper  
75 100  
110 6.8 17.9 53.7#  
77 0.0 25.3 37.9#



#37  
Ethyl Acetate  
Concen: 2.837 ug/l  
RT: 7.215 min Scan# 900  
Delta R.T. -0.076 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

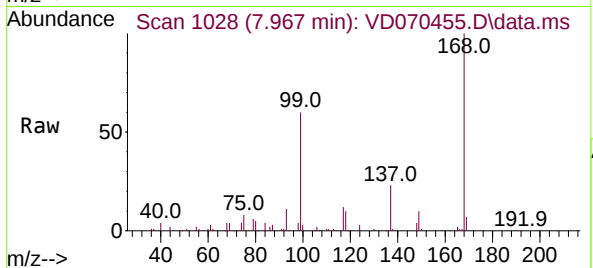
Tgt Ion: 43 Resp: 3366  
Ion Ratio Lower Upper  
43 100  
61 13.9 13.0 19.6  
70 0.0 9.8 14.6#



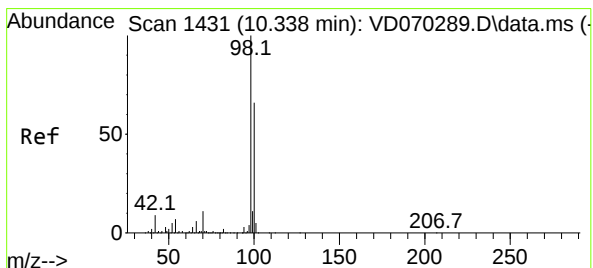
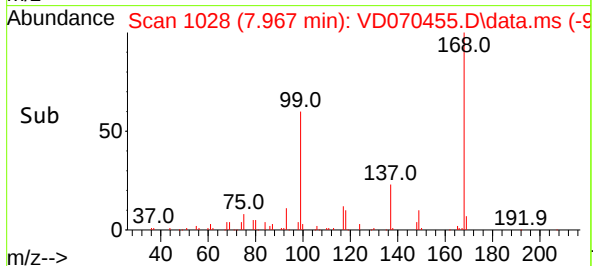
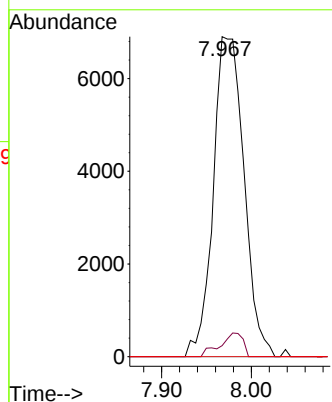


#38  
Carbon Tetrachloride  
Concen: 5.238 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.129 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Instrument :  
MSVOA\_D  
ClientSampleId :

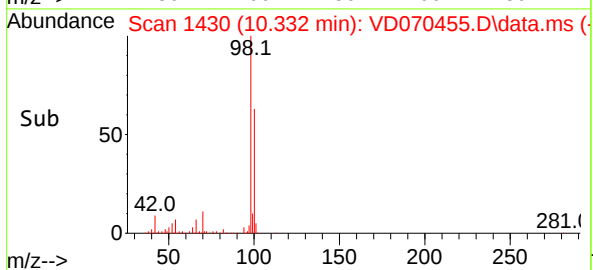
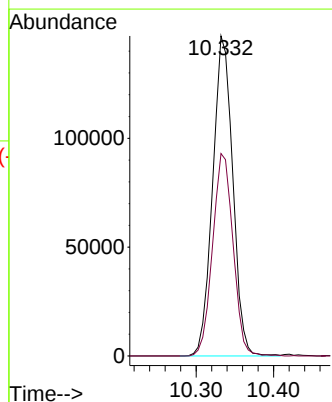
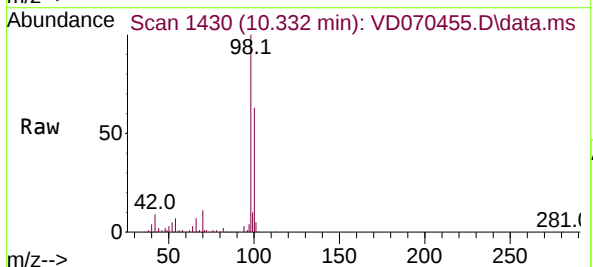


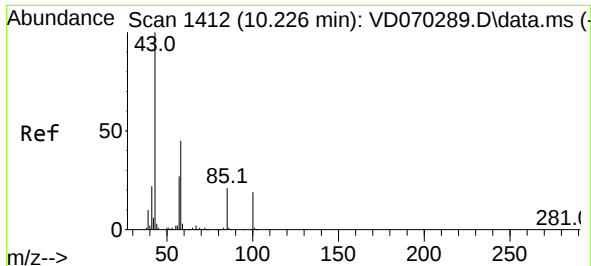
Tgt Ion:117 Resp: 16435  
Ion Ratio Lower Upper  
117 100  
119 3.4 76.1 114.1#  
121 0.0 23.8 35.6#



#50  
Toluene-d8  
Concen: 34.496 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion: 98 Resp: 264636  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.0 78.0

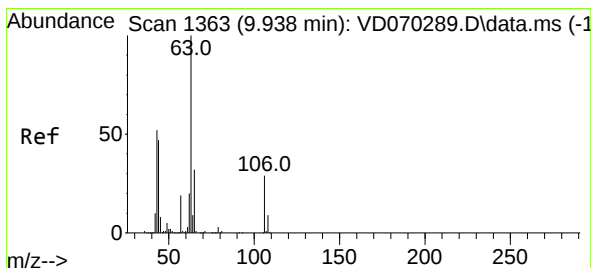
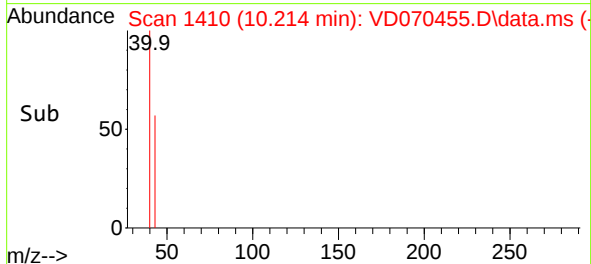
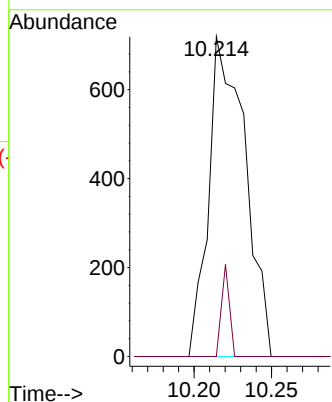
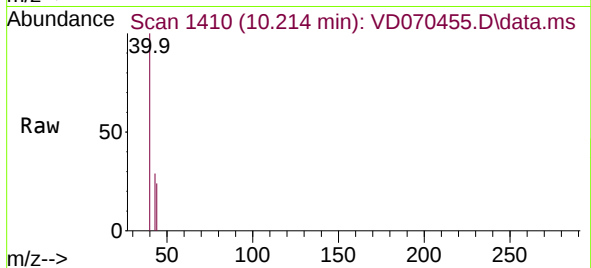




#51  
4-Methyl-2-Pentanone  
Concen: 1.036 ug/l  
RT: 10.214 min Scan# 1410  
Delta R.T. -0.012 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

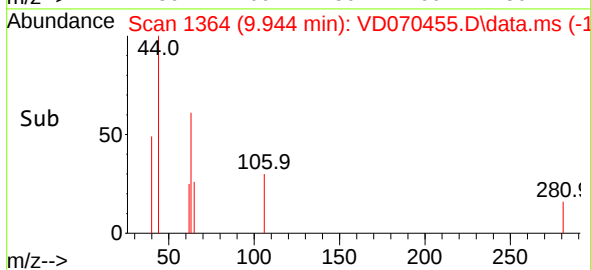
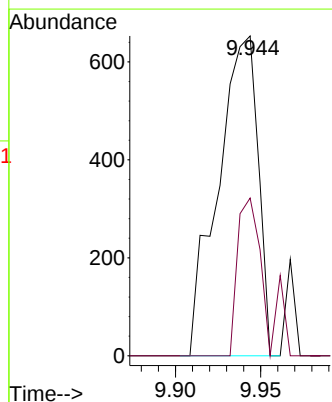
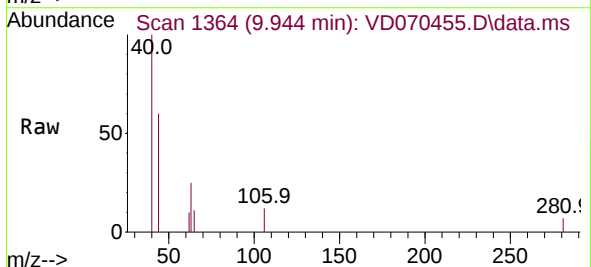
Instrument :  
MSVOA\_D  
ClientSampled :

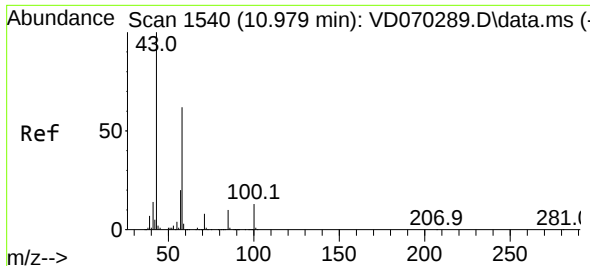
Tgt Ion: 43 Resp: 1176  
Ion Ratio Lower Upper  
43 100  
58 6.2 35.4 53.2#



#58  
2-Chloroethyl Vinyl ether  
Concen: 1.177 ug/l  
RT: 9.944 min Scan# 1364  
Delta R.T. 0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion: 63 Resp: 1070  
Ion Ratio Lower Upper  
63 100  
106 32.7 22.3 33.5

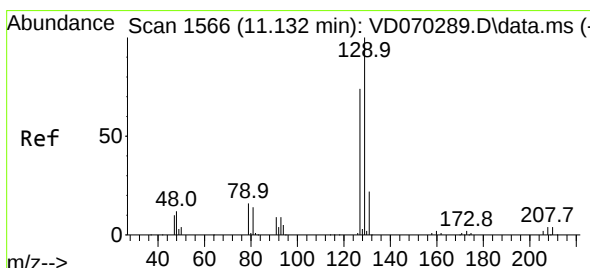
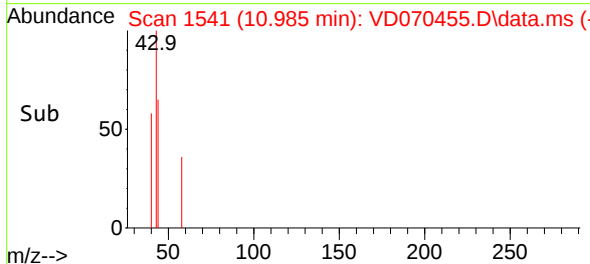
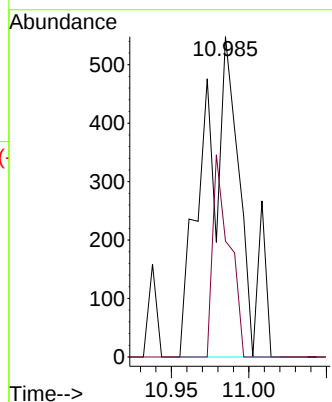
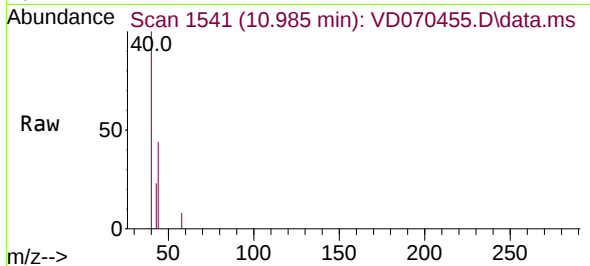




#59  
2-Hexanone  
Concen: 1.204 ug/l  
RT: 10.985 min Scan# 1541  
Delta R.T. 0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

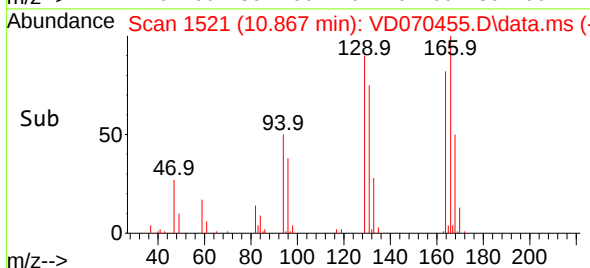
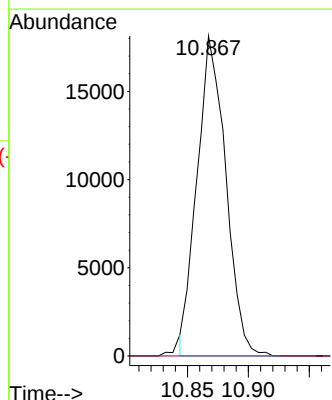
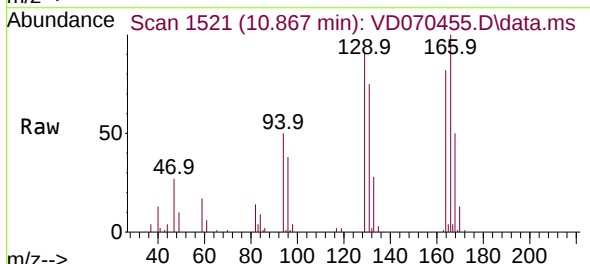
Instrument :  
MSVOA\_D  
ClientSampled :

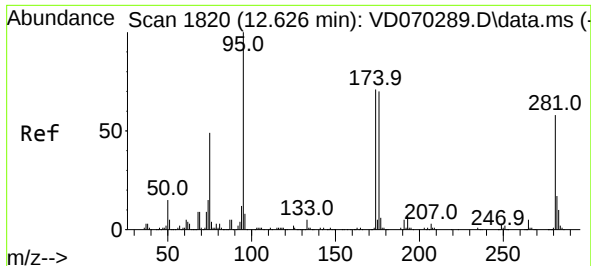
Tgt Ion: 43 Resp: 912  
Ion Ratio Lower Upper  
43 100  
58 28.0 30.6 91.6#



#60  
Dibromochloromethane  
Concen: 14.780 ug/l  
RT: 10.867 min Scan# 1521  
Delta R.T. -0.265 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion:129 Resp: 29724  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.0 114.0#

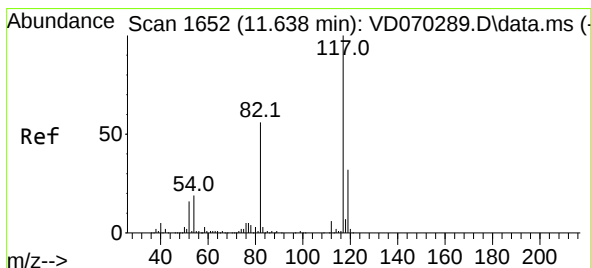
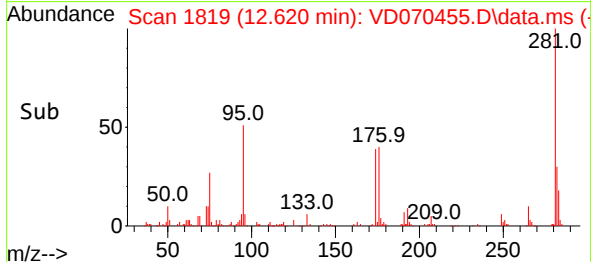
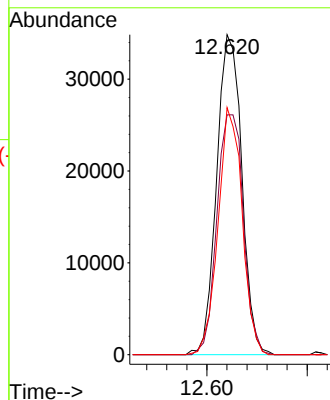
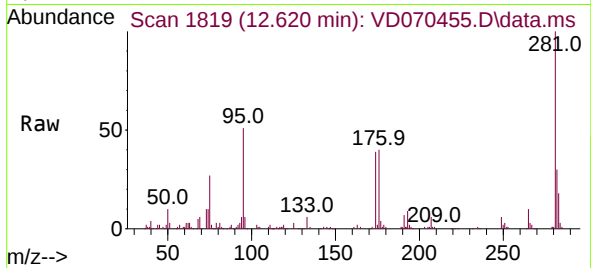




#62  
4-Bromofluorobenzene  
Concen: 22.532 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

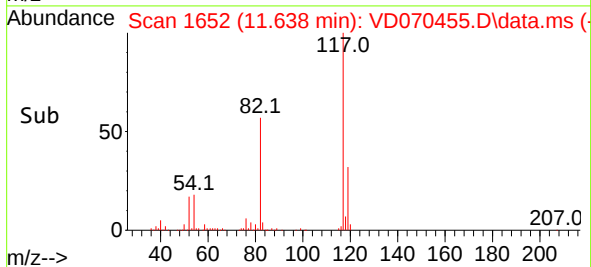
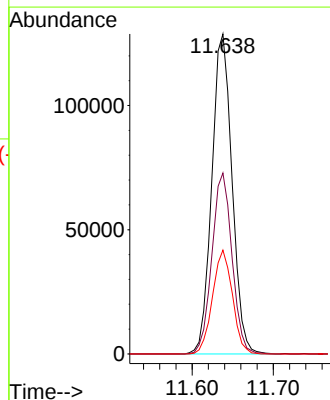
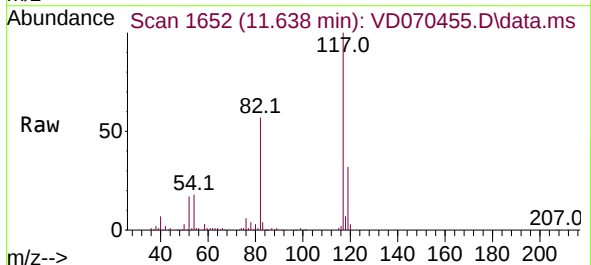
Instrument :  
MSVOA\_D  
ClientSampleId :

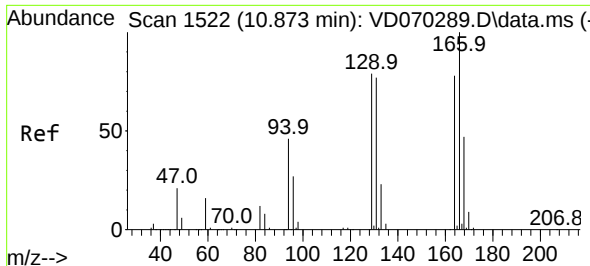
Tgt Ion: 95 Resp: 60411  
Ion Ratio Lower Upper  
95 100  
174 79.1 0.0 140.6  
176 73.9 0.0 137.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion:117 Resp: 222868  
Ion Ratio Lower Upper  
117 100  
82 56.6 45.0 67.4  
119 32.5 25.2 37.8

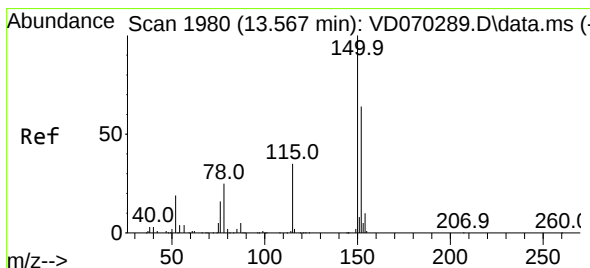
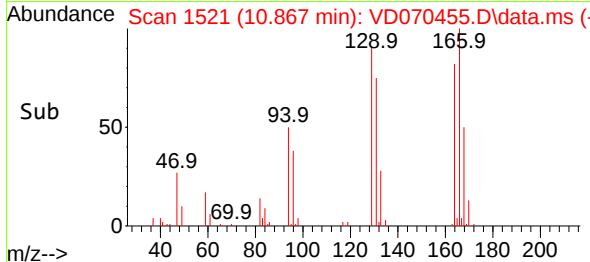
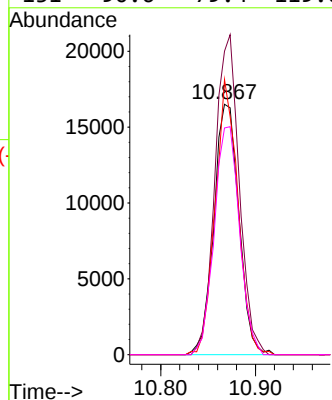
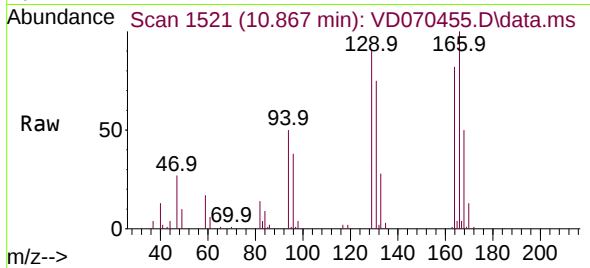




#64  
Tetrachloroethene  
Concen: 22.355 ug/l  
RT: 10.867 min Scan# 1521  
Delta R.T. -0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

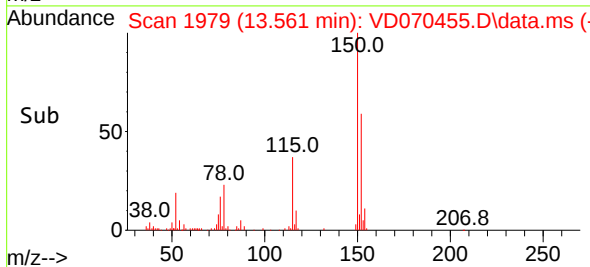
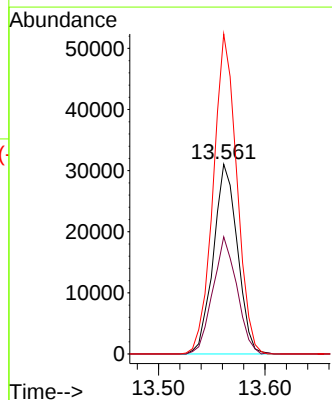
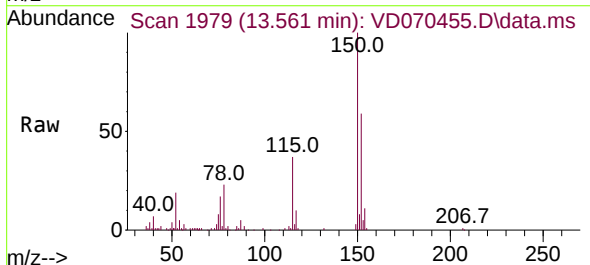
Instrument :  
MSVOA\_D  
ClientSampleId :

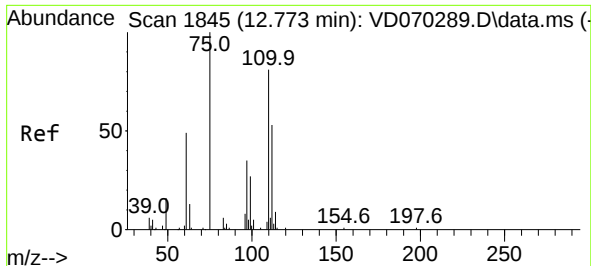
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:164 | Resp: | 30334       |
| Ion Ratio   | Lower | Upper       |
| 164         | 100   |             |
| 166         | 121.2 | 102.4 153.6 |
| 129         | 109.9 | 80.9 121.3  |
| 131         | 90.6  | 79.4 119.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. -0.006 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 48620     |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 115         | 61.8  | 32.1 96.3 |
| 150         | 165.1 | 0.0 350.6 |

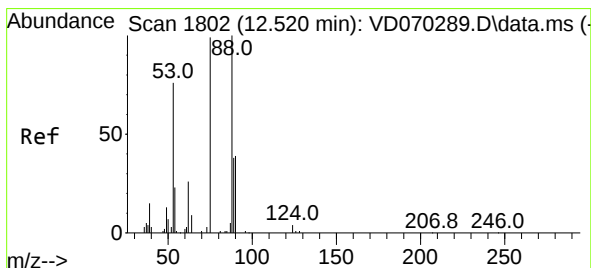
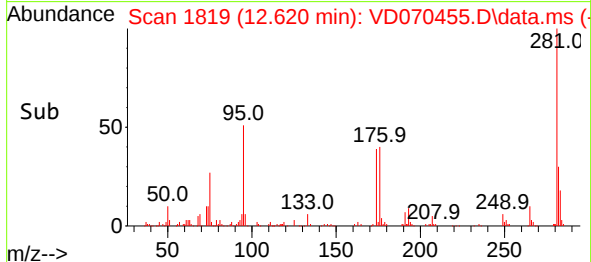
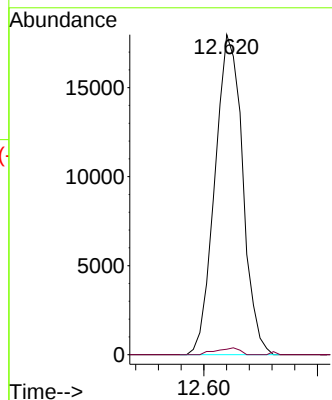
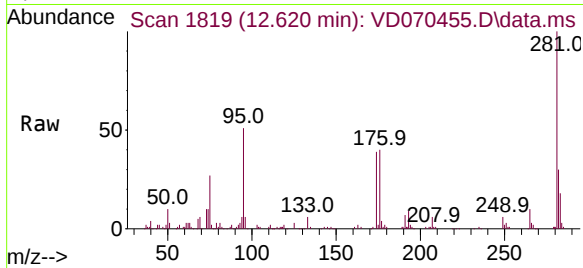




#76  
1,2,3-Trichloropropane  
Concen: 61.987 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 30485  
Ion Ratio Lower Upper  
75 100  
77 1.8 174.9 524.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 155.314 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD070455.D  
Acq: 24 Sep 2021 15:24

Tgt Ion: 75 Resp: 30485  
Ion Ratio Lower Upper  
75 100  
53 0.0 64.2 96.2#  
89 1.4 35.6 53.4#

