

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081621\  
 Data File : VD070070.D  
 Acq On : 16 Aug 2021 16:48  
 Operator : VA/SY  
 Sample : M3368-21  
 Misc : 3.24G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 17 03:56:55 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 14 02:33:51 2021  
 Response via : Initial Calibration

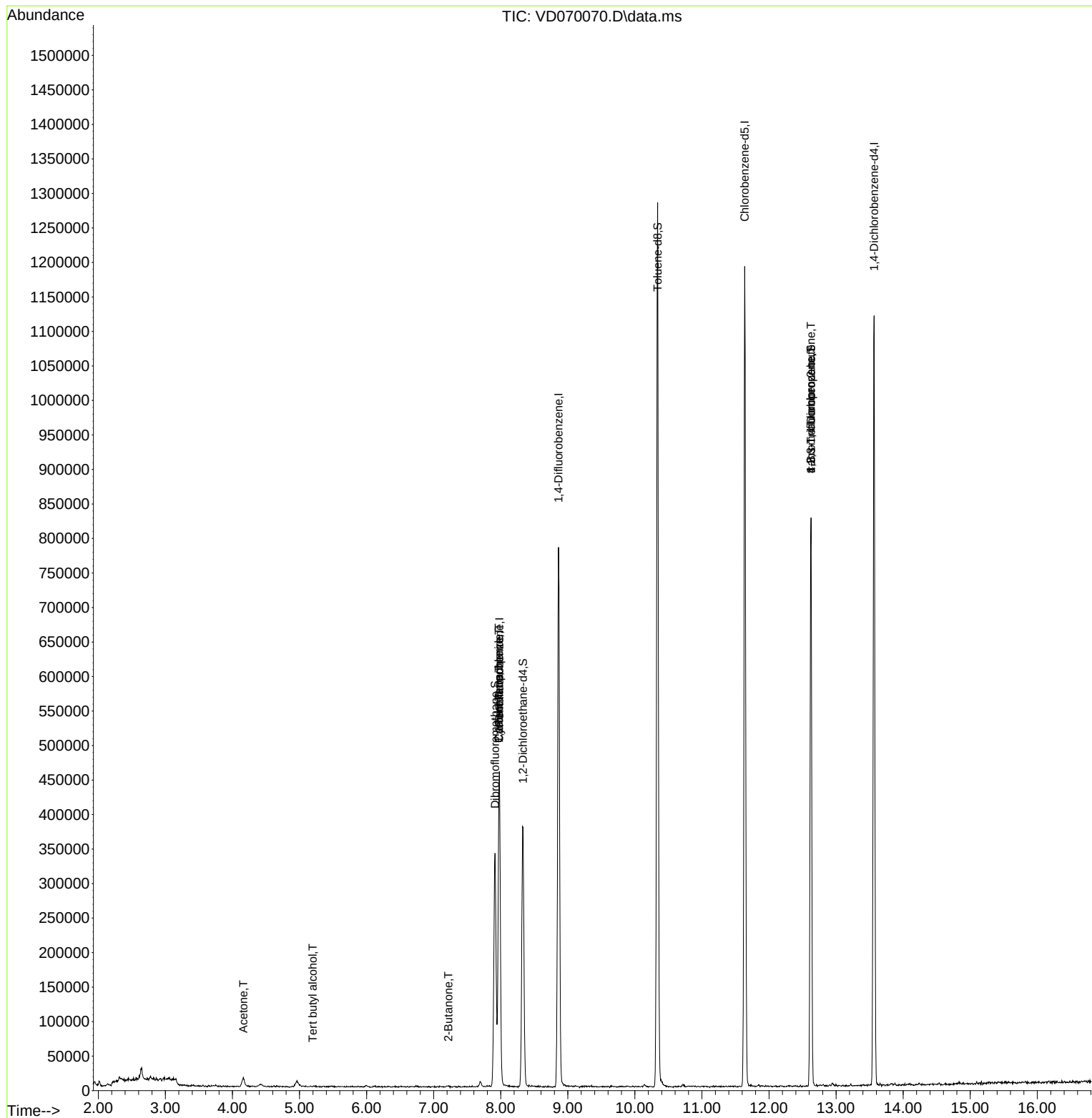
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 323435              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 664817              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 684314              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 296543              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 299940              | 78.846    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 157.700% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 248324              | 57.815    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 115.620% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 875690              | 52.418    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 104.840% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 295710              | 53.742    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 107.480% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
| 2) Dichlorodifluoromethane    | 1.991          | 85   | 274                 | Below Cal | #      | 42       |
| 3) Chloromethane              | 2.209          | 50   | 1720                | Below Cal | #      | 87       |
| 5) Bromomethane               | 2.773          | 94   | 3365                | Below Cal | #      | 63       |
| 11) Tert butyl alcohol        | 5.197          | 59   | 1098                | 5.222     | ug/l # | 71       |
| 16) Acetone                   | 4.162          | 43   | 21749               | 31.035    | ug/l # | 74       |
| 20) Methylene Chloride        | 4.956          | 84   | 4381                | Below Cal | #      | 78       |
| 25) 2-Butanone                | 7.220          | 43   | 1112                | 1.161     | ug/l # | 57       |
| 31) Cyclohexane               | 7.973          | 56   | 8125                | 1.079     | ug/l # | 3        |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 29478               | 4.122     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 35581               | 5.480     | ug/l # | 14       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 143903              | 47.850    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 143903              | 124.202   | ug/l # | 18       |
| -----                         |                |      |                     |           |        |          |

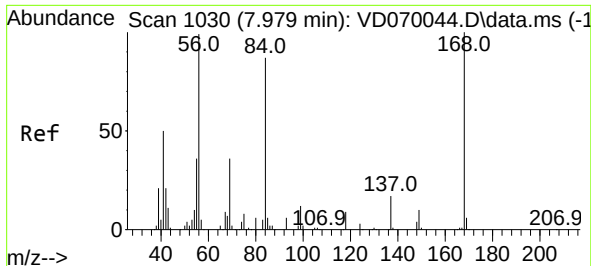
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Aug 17 03:56:55 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 14 02:33:51 2021  
Response via : Initial Calibration

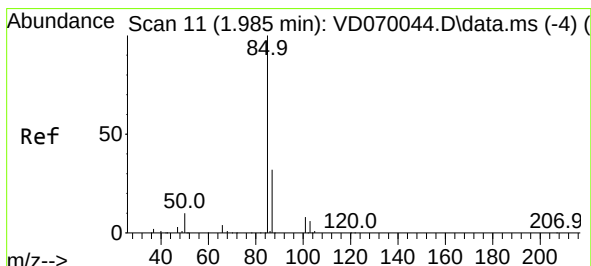
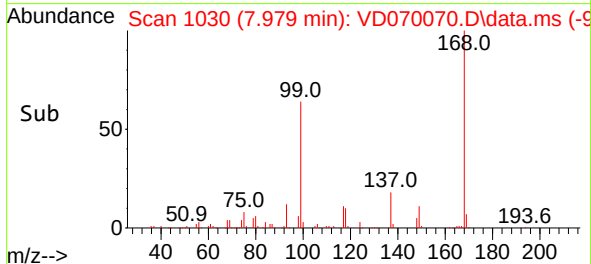
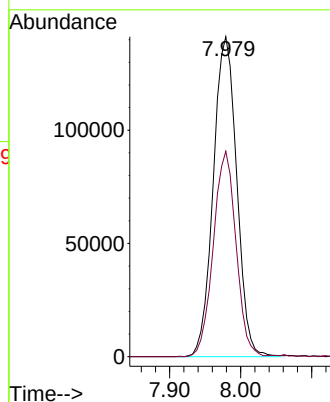
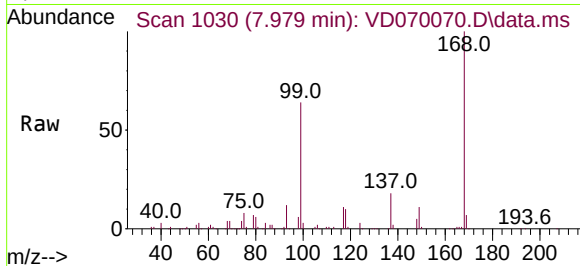




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

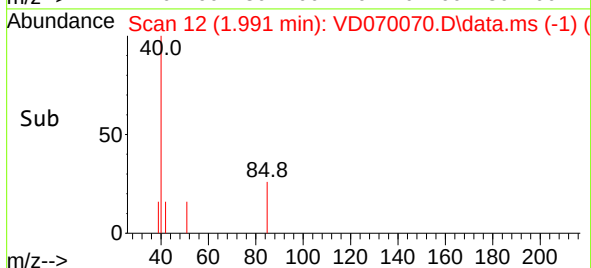
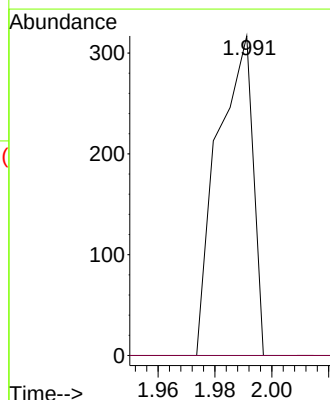
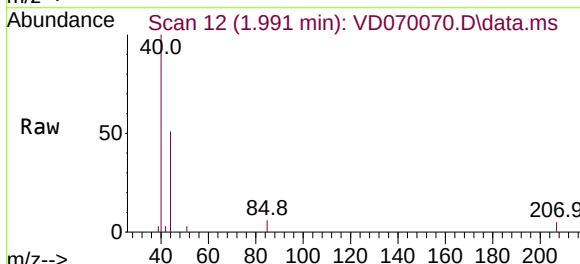
Instrument :  
MSVOA\_D  
ClientSampleId :

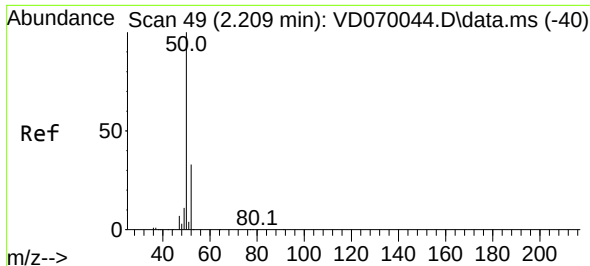
Tgt Ion:168 Resp: 323435  
Ion Ratio Lower Upper  
168 100  
99 64.0 50.3 75.5



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.991 min Scan# 12  
Delta R.T. 0.006 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Tgt Ion: 85 Resp: 274  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.2 48.6#

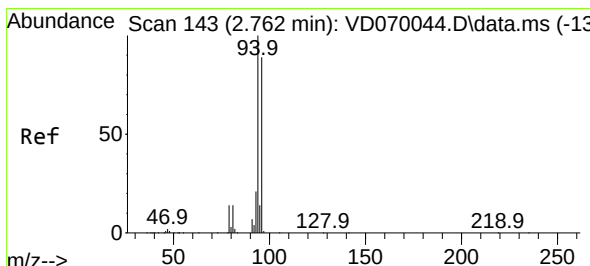
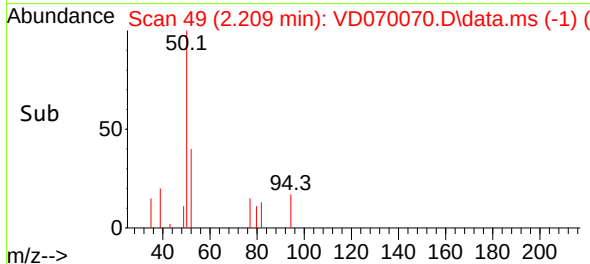
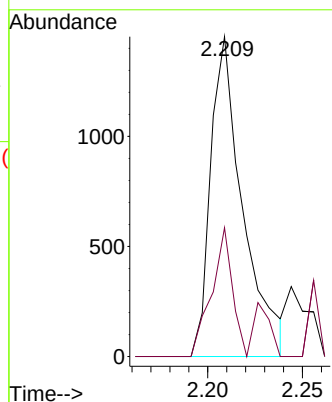
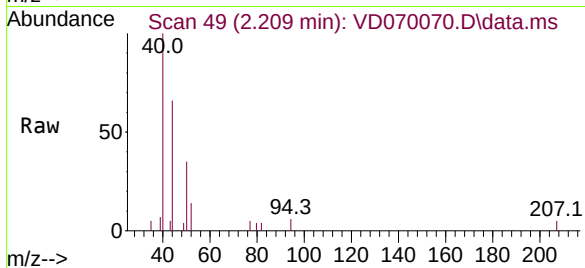




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

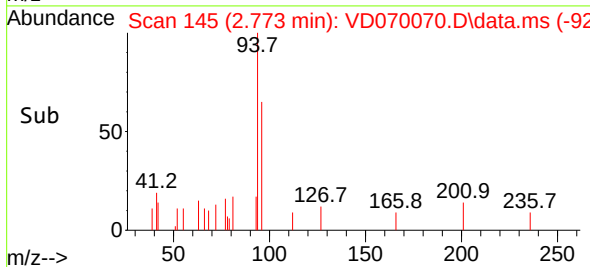
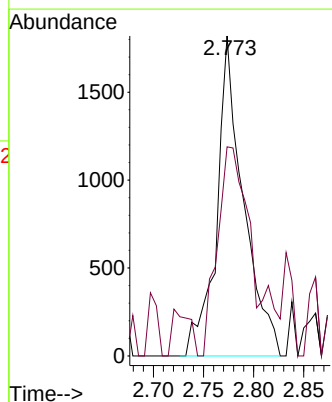
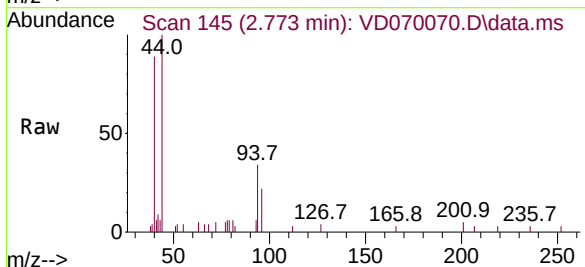
Instrument :  
MSVOA\_D  
ClientSampleId :

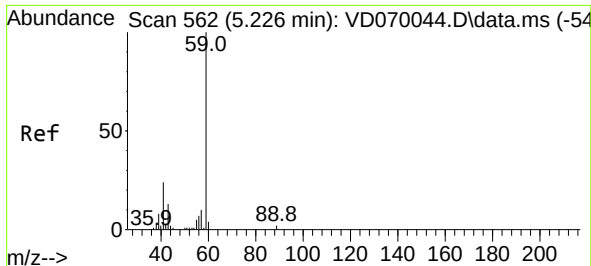
Tgt Ion: 50 Resp: 1720  
Ion Ratio Lower Upper  
50 100  
52 40.3 26.3 39.5#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.773 min Scan# 145  
Delta R.T. 0.011 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Tgt Ion: 94 Resp: 3365  
Ion Ratio Lower Upper  
94 100  
96 53.8 70.9 106.3#

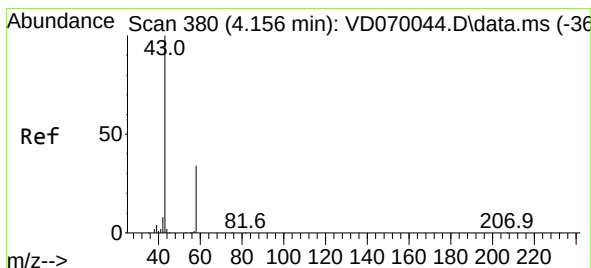
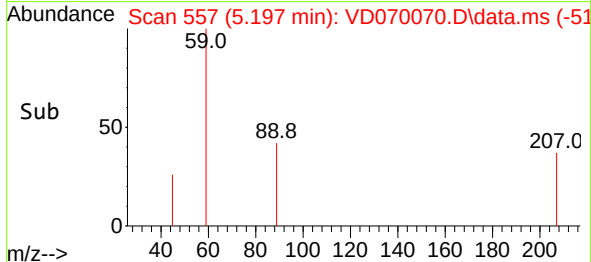
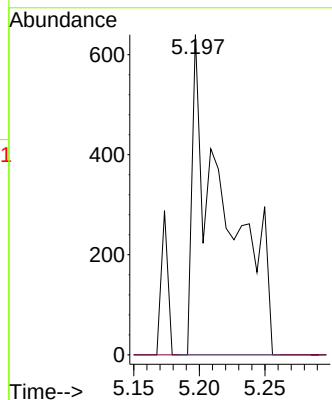
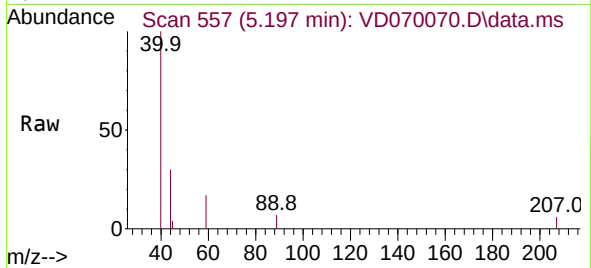




#11  
Tert butyl alcohol  
Concen: 5.222 ug/l  
RT: 5.197 min Scan# 557  
Delta R.T. -0.029 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

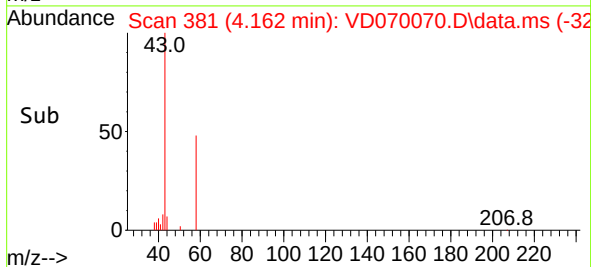
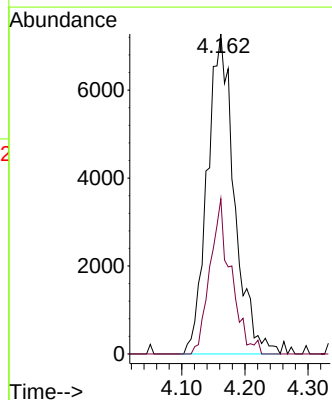
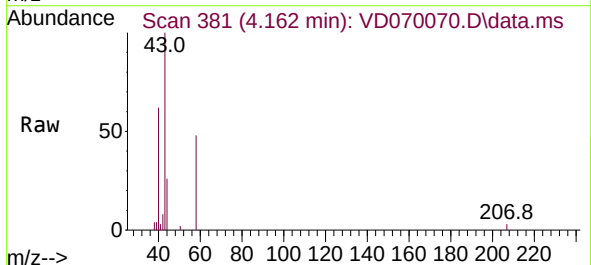
Instrument :  
MSVOA\_D  
ClientSampleId :

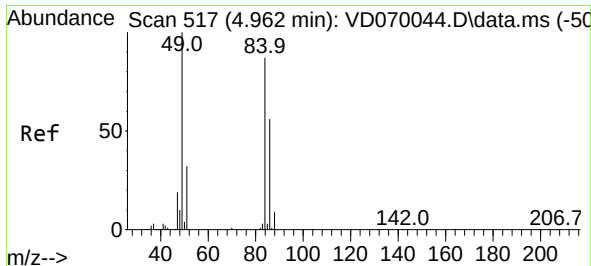
Tgt Ion: 59 Resp: 1098  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.8 13.2#



#16  
Acetone  
Concen: 31.035 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

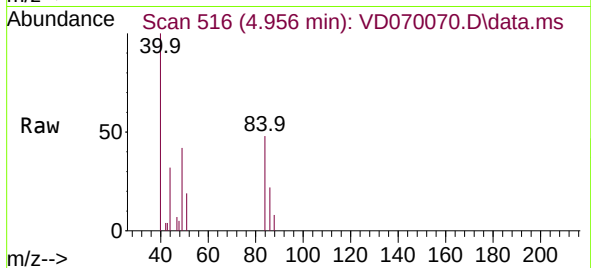
Tgt Ion: 43 Resp: 21749  
Ion Ratio Lower Upper  
43 100  
58 48.5 26.8 40.2#



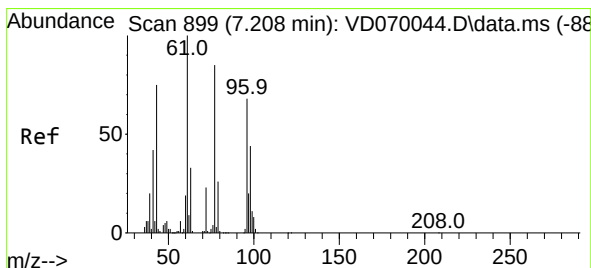
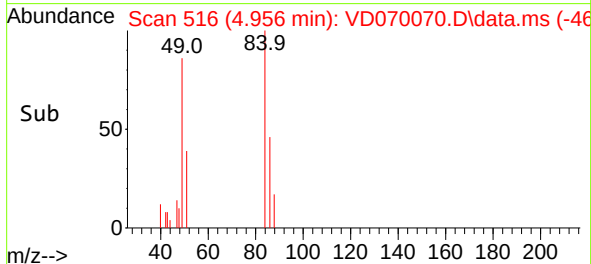
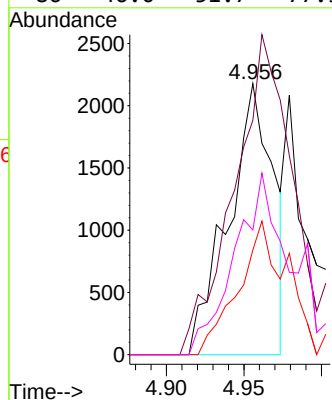


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 516  
Delta R.T. -0.006 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Instrument :  
MSVOA\_D  
ClientSampleId :

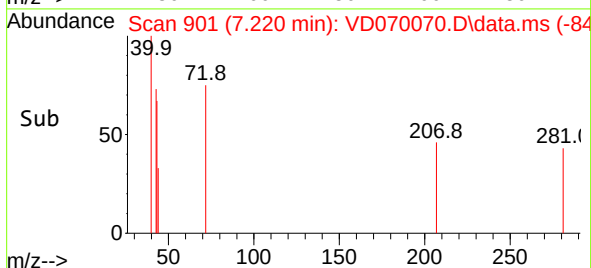
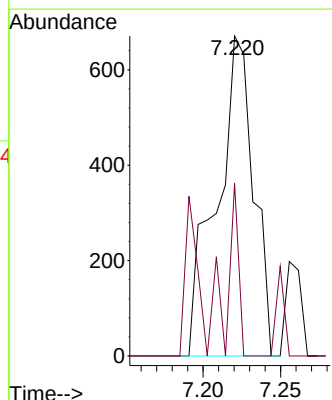
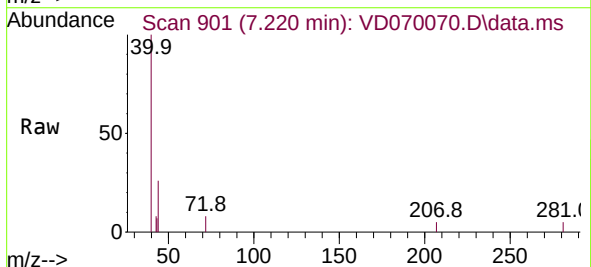


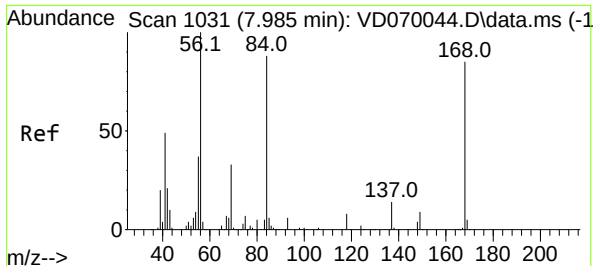
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 4381   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 86.4  | 92.5  | 138.7# |
| 51       | 38.6  | 29.7  | 44.5   |
| 86       | 46.0  | 51.7  | 77.5#  |



#25  
2-Butanone  
Concen: 1.161 ug/l  
RT: 7.220 min Scan# 901  
Delta R.T. 0.012 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1112  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 53.9  | 24.2  | 36.4# |

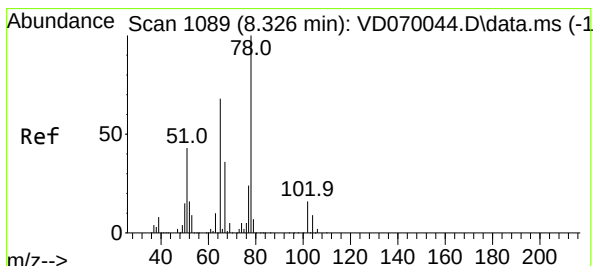
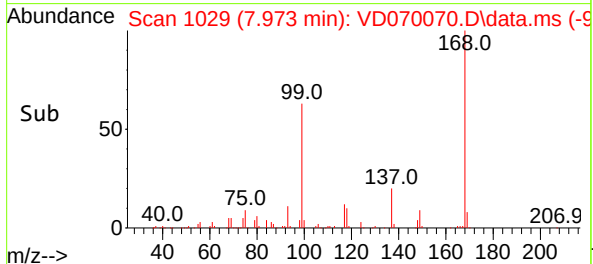
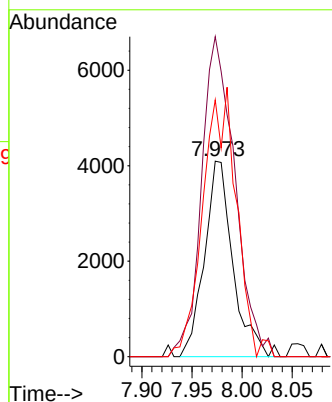
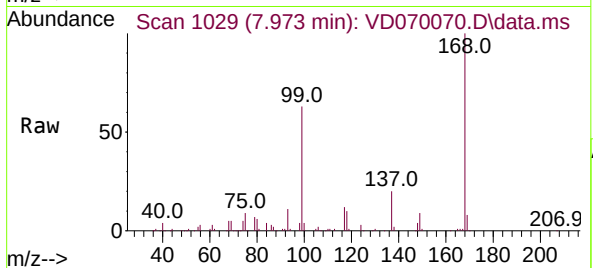




#31  
Cyclohexane  
Concen: 1.079 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

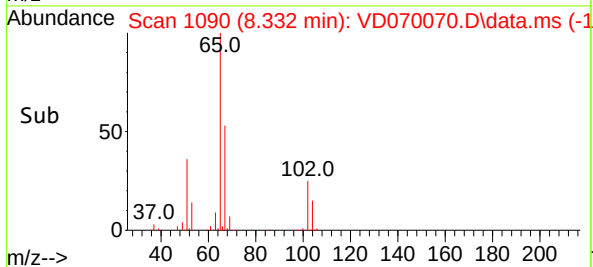
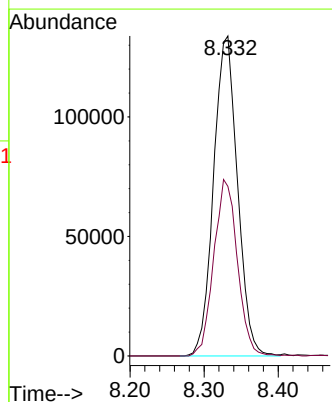
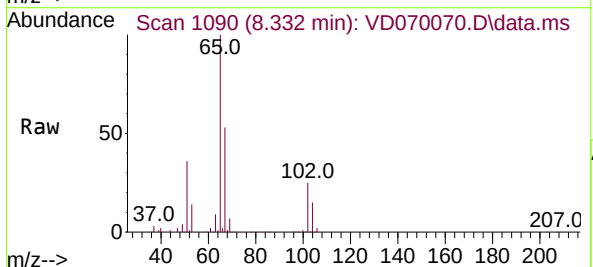
Instrument :  
MSVOA\_D  
ClientSampleId :

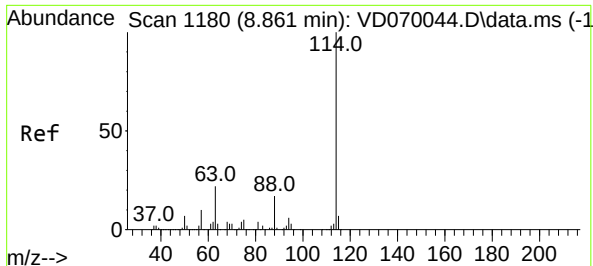
Tgt Ion: 56 Resp: 8125  
Ion Ratio Lower Upper  
56 100  
69 163.6 26.7 40.1#  
84 131.3 70.4 105.6#



#33  
1,2-Dichloroethane-d4  
Concen: 78.846 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.006 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Tgt Ion: 65 Resp: 299940  
Ion Ratio Lower Upper  
65 100  
67 54.5 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

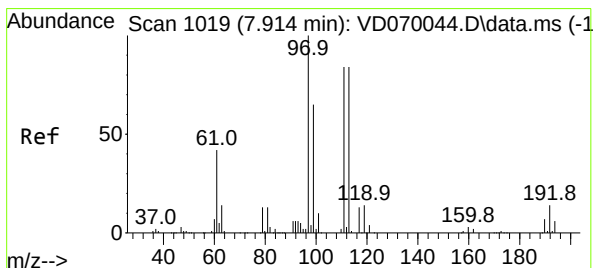
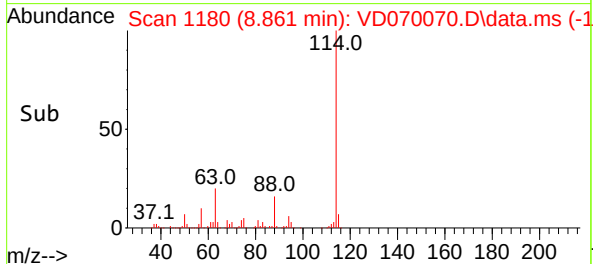
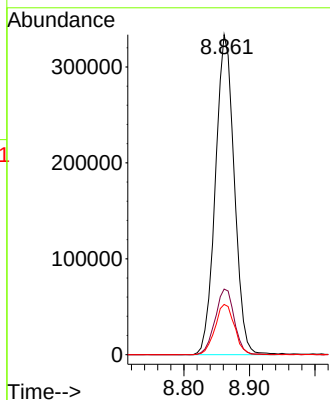
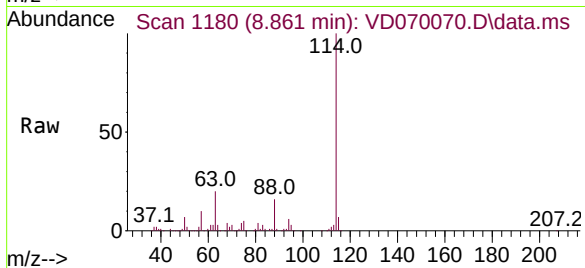
Delta R.T. 0.000 min

Lab File: VD070070.D

Acq: 16 Aug 2021 16:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 664817 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 20.5  | 0.0   | 43.6   |
| 88        | 15.7  | 0.0   | 33.4   |

Instrument :  
MSVOA\_D  
ClientSampleId :



#35

Dibromofluoromethane

Concen: 57.815 ug/l

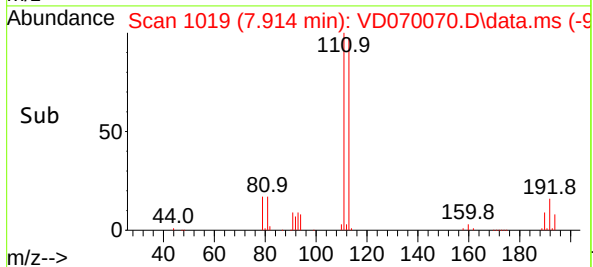
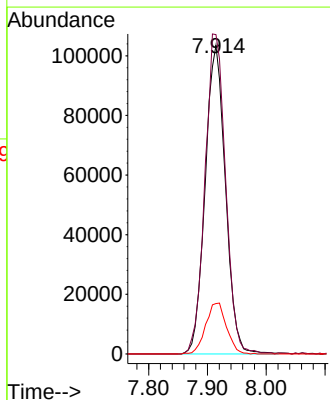
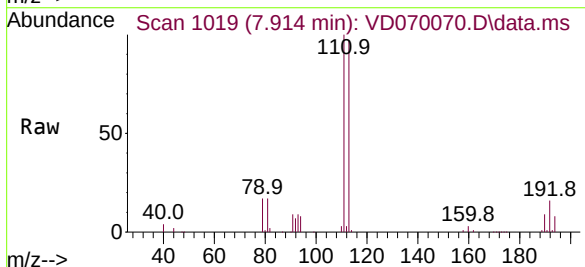
RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

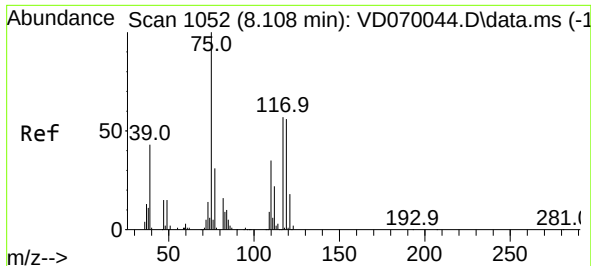
Lab File: VD070070.D

Acq: 16 Aug 2021 16:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 248324 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 105.2 | 81.8  | 122.6  |
| 192       | 16.9  | 13.2  | 19.8   |



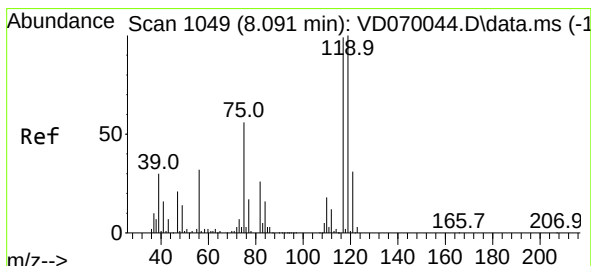
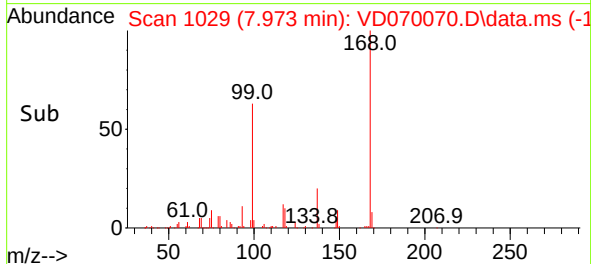
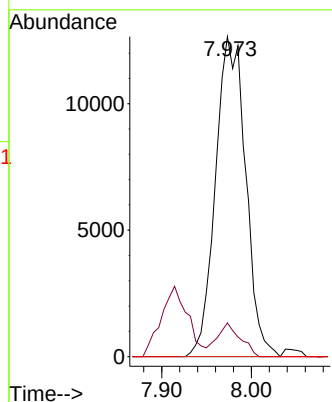
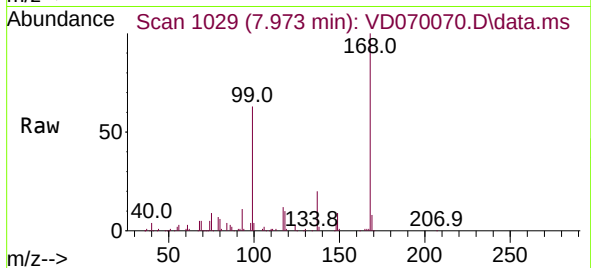




#36  
1,1-Dichloropropene  
Concen: 4.122 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

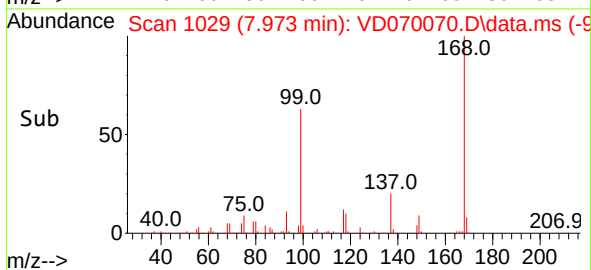
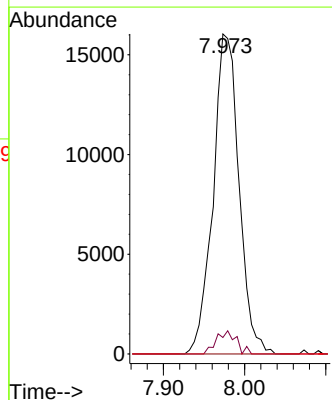
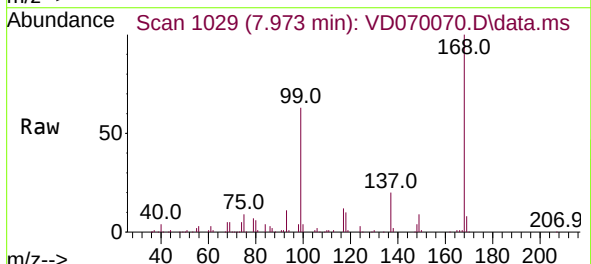
Instrument :  
MSVOA\_D  
ClientSampled :

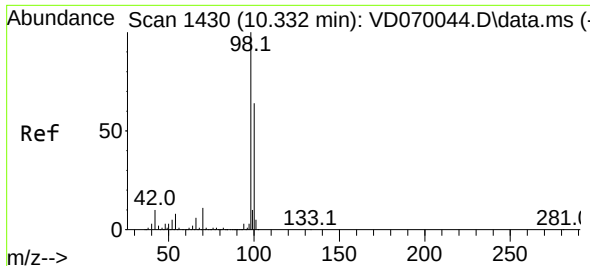
Tgt Ion: 75 Resp: 29478  
Ion Ratio Lower Upper  
75 100  
110 8.1 16.9 50.7#  
77 0.0 25.2 37.8#



#38  
Carbon Tetrachloride  
Concen: 5.480 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.118 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Tgt Ion: 117 Resp: 35581  
Ion Ratio Lower Upper  
117 100  
119 5.2 81.0 121.6#  
121 0.0 25.0 37.6#

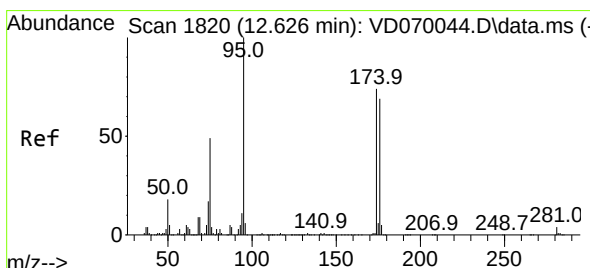
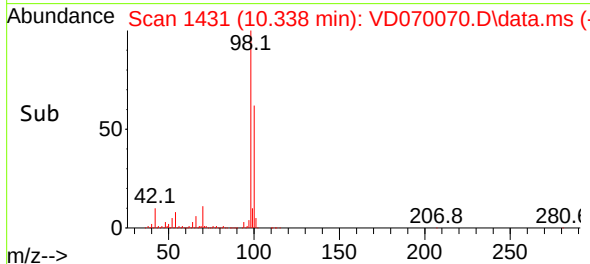
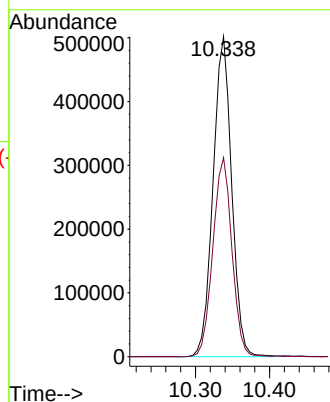
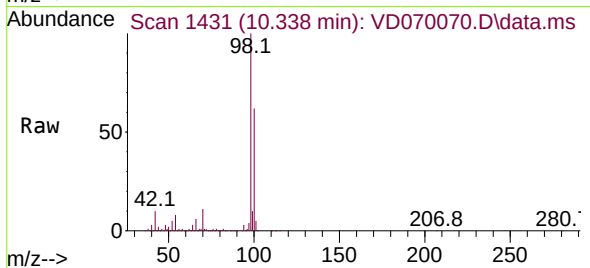




#50  
Toluene-d8  
Concen: 52.418 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

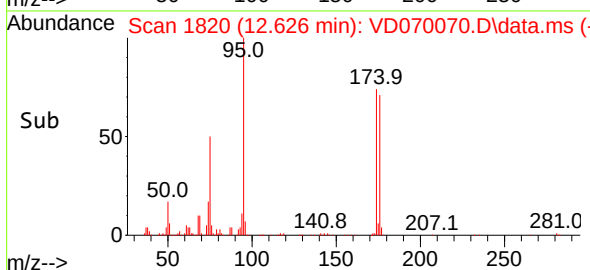
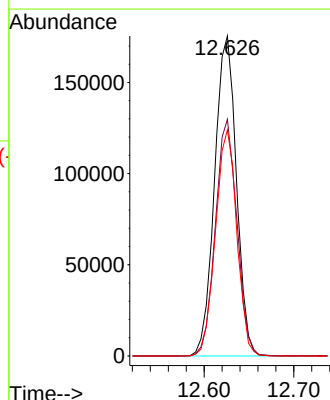
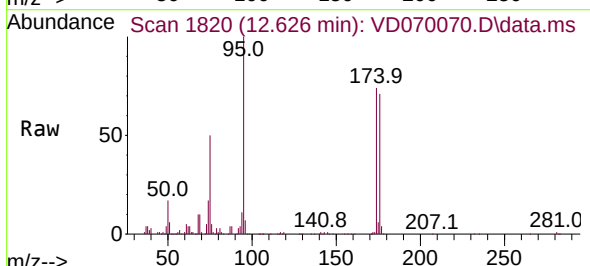
Instrument :  
MSVOA\_D  
ClientSampled :

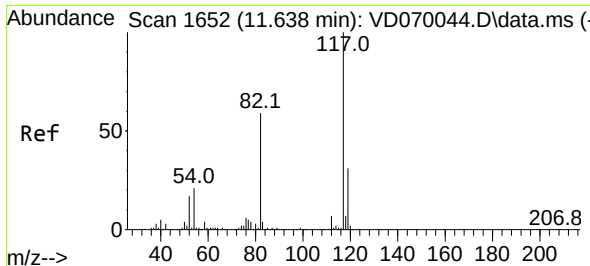
Tgt Ion: 98 Resp: 875690  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 53.742 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Tgt Ion: 95 Resp: 295710  
Ion Ratio Lower Upper  
95 100  
174 73.1 0.0 141.6  
176 69.0 0.0 138.2

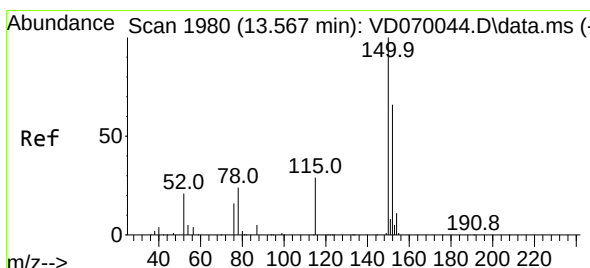
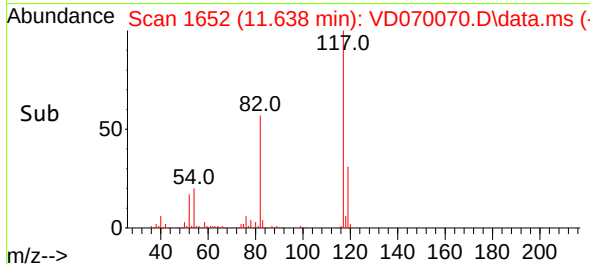
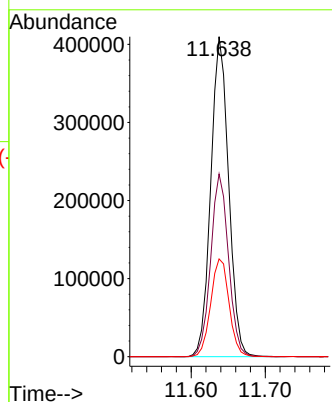
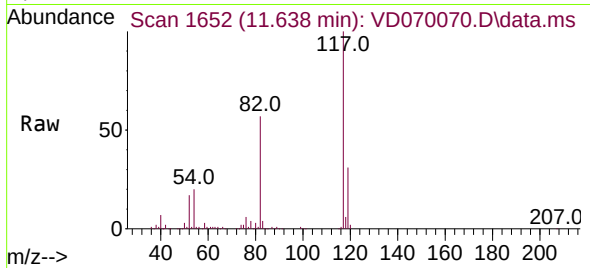




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

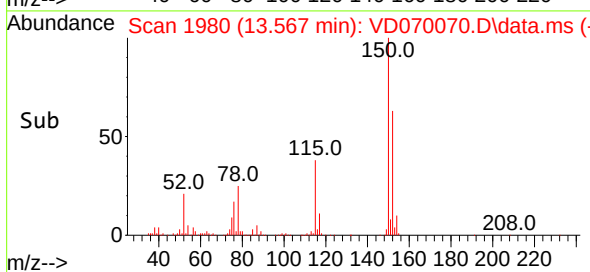
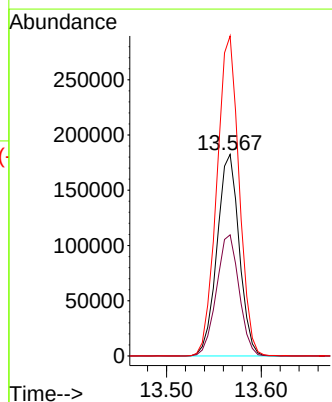
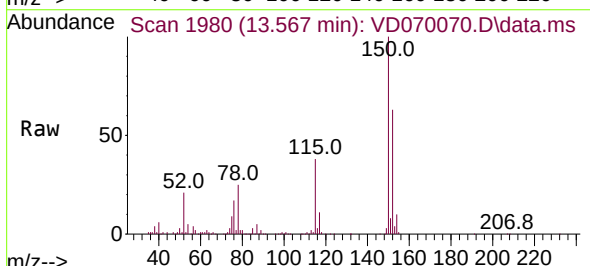
Instrument :  
MSVOA\_D  
ClientSampleId :

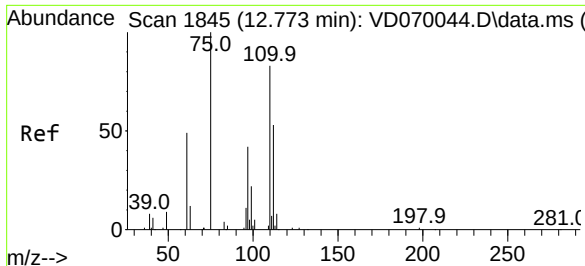
Tgt Ion:117 Resp: 684314  
Ion Ratio Lower Upper  
117 100  
82 57.1 47.5 71.3  
119 30.5 25.1 37.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Tgt Ion:152 Resp: 296543  
Ion Ratio Lower Upper  
152 100  
115 61.3 31.2 93.6  
150 159.6 0.0 352.0

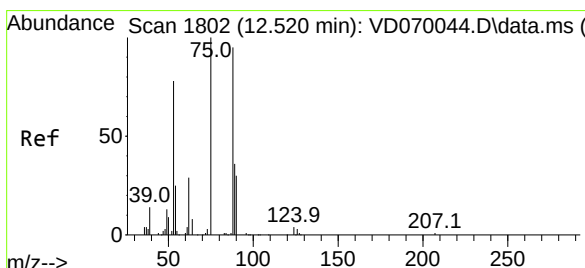
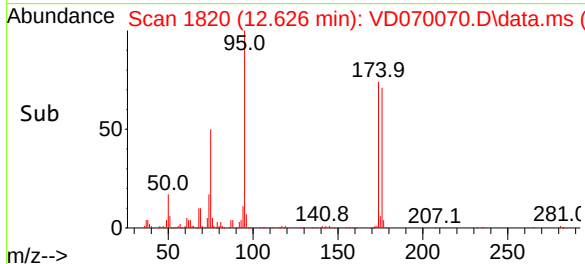
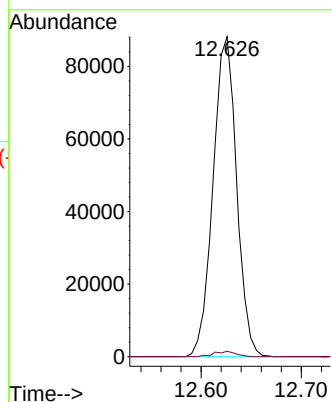
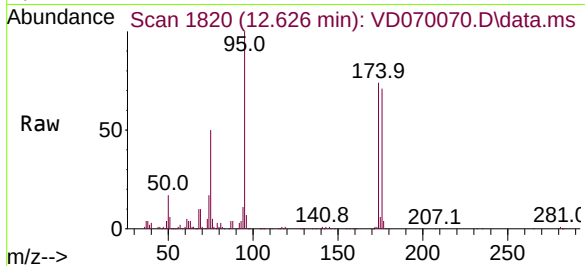




#76  
1,2,3-Trichloropropane  
Concen: 47.850 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 143903  
Ion Ratio Lower Upper  
75 100  
77 1.6 182.4 547.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 124.202 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD070070.D  
Acq: 16 Aug 2021 16:48

Tgt Ion: 75 Resp: 143903  
Ion Ratio Lower Upper  
75 100  
53 0.1 64.5 96.7#  
89 0.0 33.7 50.5#

