

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121321\  
 Data File : VD071302.D  
 Acq On : 13 Dec 2021 17:52  
 Operator : VA/SY  
 Sample : M5022-09  
 Misc : 5.07G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 14 08:15:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

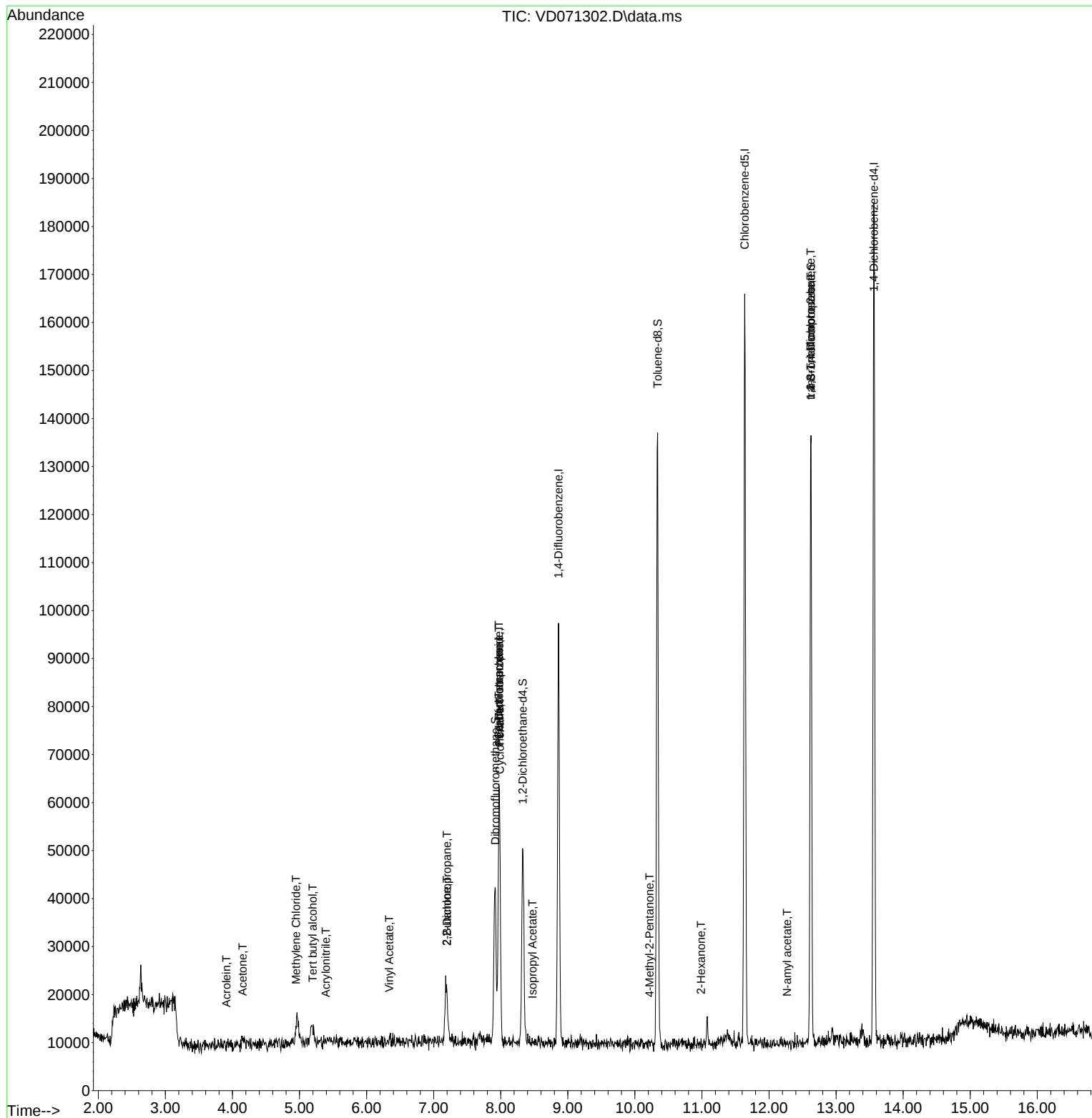
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 36377                | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 64360                | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 83204                | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 42865                | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 32385                | 75.871    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 151.740%  |           |        |          |
| 35) Dibromofluoromethane      | 7.920          | 113  | 23725                | 57.889    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 115.780%  |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 84011                | 53.866    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 107.740%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 40438                | 74.798    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 149.600%# |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        | Qvalue   |
| 11) Tert butyl alcohol        | 5.197          | 59   | 4538                 | 131.891   | ug/l # | 71       |
| 13) Acrolein                  | 3.909          | 56   | 69                   | 2.366     | ug/l # | 13       |
| 15) Acrylonitrile             | 5.391          | 53   | 119                  | 1.455     | ug/l # | 19       |
| 16) Acetone                   | 4.150          | 43   | 2558                 | 50.585    | ug/l # | 75       |
| 20) Methylene Chloride        | 4.950          | 84   | 3647                 | 4.682     | ug/l # | 77       |
| 23) Vinyl Acetate             | 6.338          | 43   | 60                   | 27.295    | ug/l # | 72       |
| 25) 2-Butanone                | 7.197          | 43   | 951                  | 34.800    | ug/l # | 45       |
| 26) 2,2-Dichloropropane       | 7.197          | 77   | 894                  | 1.330     | ug/l # | 52       |
| 31) Cyclohexane               | 7.985          | 56   | 1178                 | 1.622     | ug/l # | 55       |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 3501                 | 5.820     | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 4251                 | 7.169     | ug/l # | 12       |
| 41) Methacrylonitrile         | 7.438          | 41   | 57                   | Below Cal | #      | 1        |
| 43) Isopropyl Acetate         | 8.473          | 43   | 55                   | 5.309     | ug/l # | 47       |
| 51) 4-Methyl-2-Pentanone      | 10.220         | 43   | 239                  | 31.367    | ug/l # | 79       |
| 59) 2-Hexanone                | 10.985         | 43   | 64                   | 34.824    | ug/l # | 22       |
| 74) N-amyl acetate            | 12.267         | 43   | 139                  | 5.846     | ug/l # | 40       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 22702                | 55.588    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 22702                | 120.776   | ug/l # | 18       |
| -----                         |                |      |                      |           |        |          |

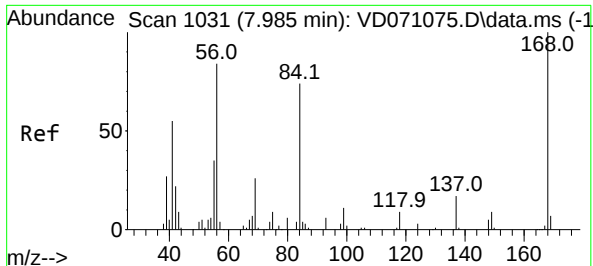
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M5022-09  
Misc : 5.07G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

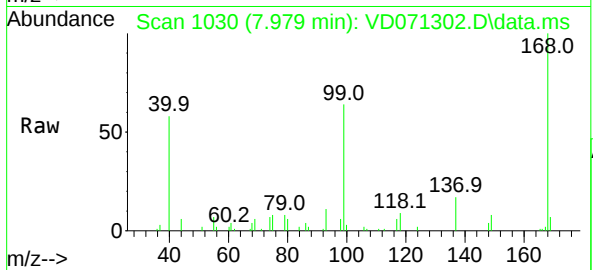
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
Response via : Initial Calibration



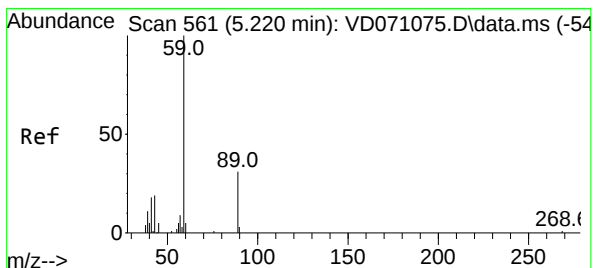
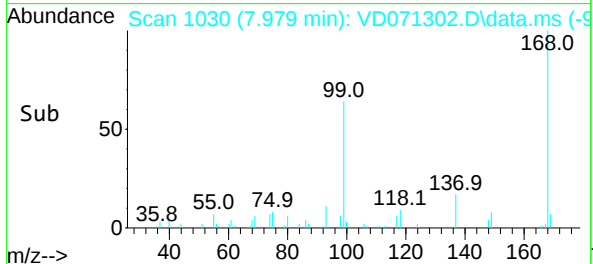
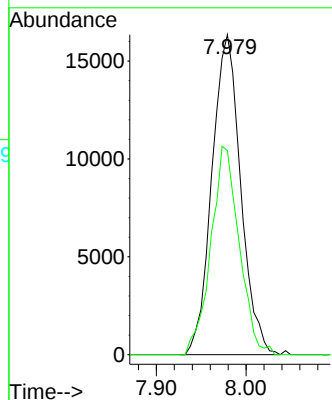


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

Instrument :  
MSVOA\_D  
ClientSampleId :

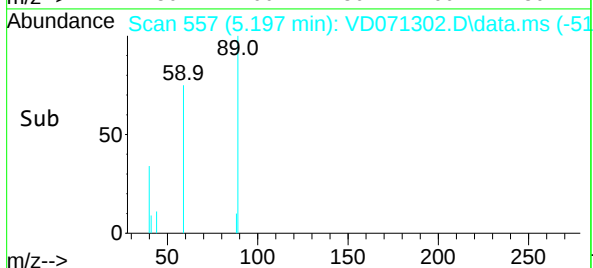
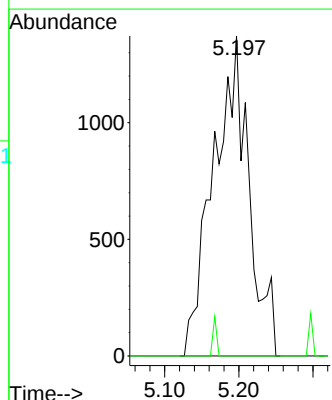
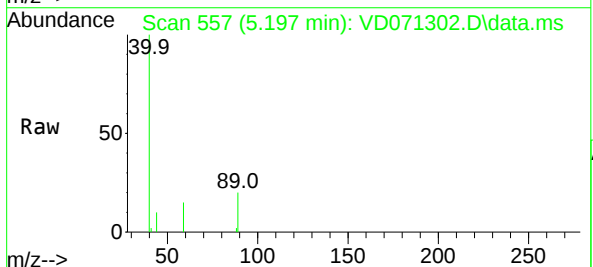


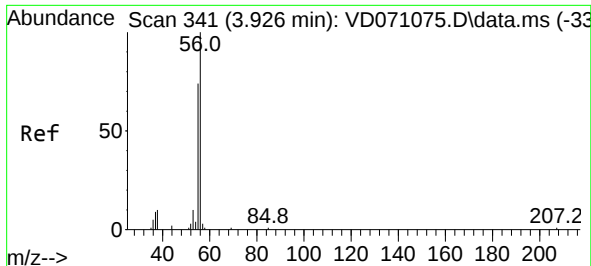
Tgt Ion:168 Resp: 36377  
Ion Ratio Lower Upper  
168 100  
99 63.7 46.6 69.8



#11  
Tert butyl alcohol  
Concen: 131.891 ug/l  
RT: 5.197 min Scan# 557  
Delta R.T. -0.023 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

Tgt Ion: 59 Resp: 4538  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.4#

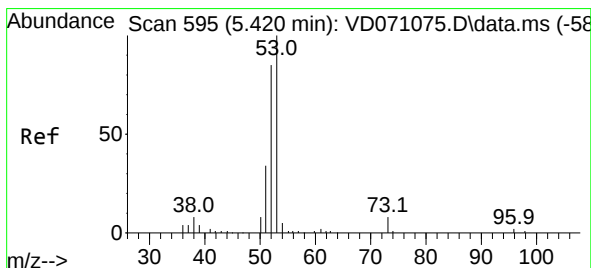
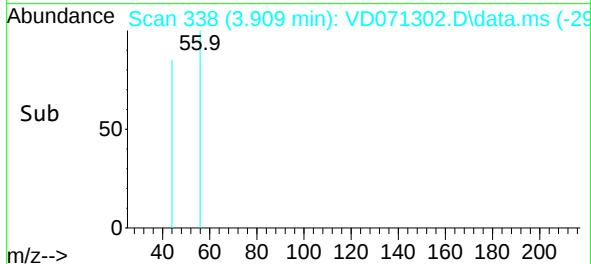
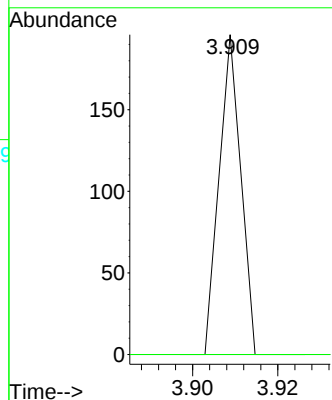
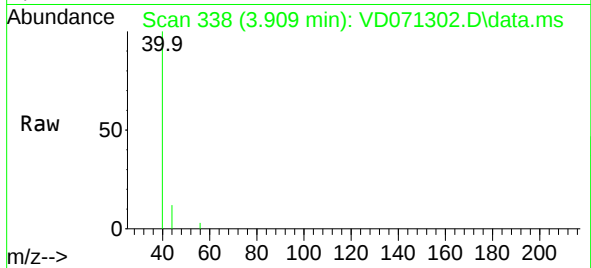




#13  
Acrolein  
Concen: 2.366 ug/l  
RT: 3.909 min Scan# 31  
Delta R.T. -0.017 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

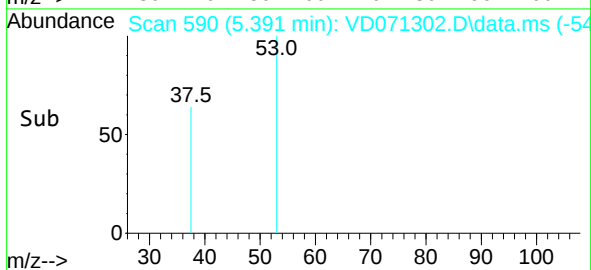
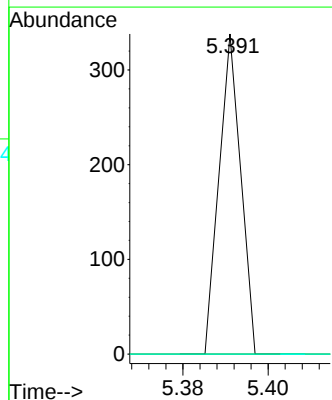
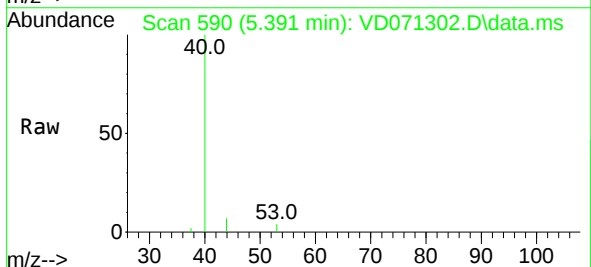
Instrument :  
MSVOA\_D  
ClientSampleId :

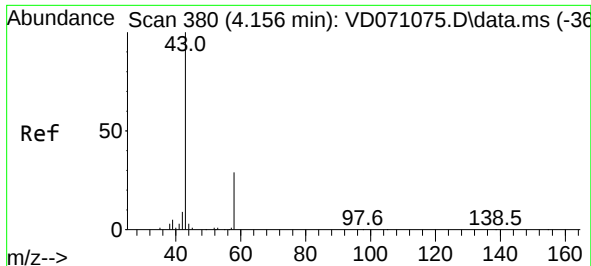
Tgt Ion: 56 Resp: 69  
Ion Ratio Lower Upper  
56 100  
55 0.0 58.6 87.8#



#15  
Acrylonitrile  
Concen: 1.455 ug/l  
RT: 5.391 min Scan# 590  
Delta R.T. -0.029 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

Tgt Ion: 53 Resp: 119  
Ion Ratio Lower Upper  
53 100  
52 0.0 63.8 95.8#  
51 0.0 28.5 42.7#

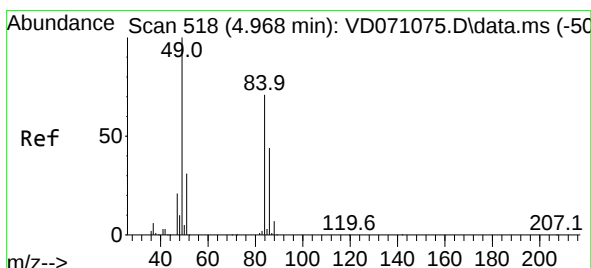
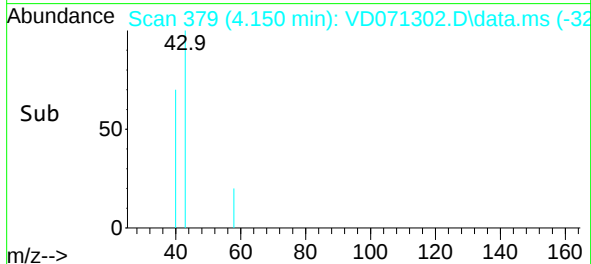
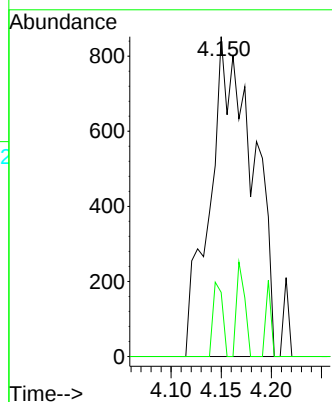
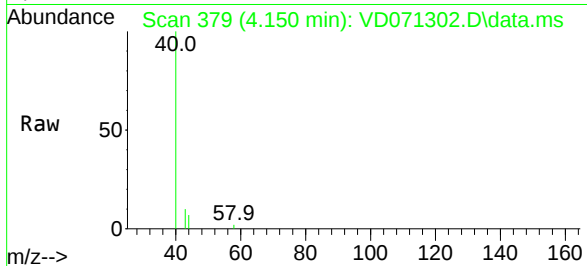




#16  
Acetone  
Concen: 50.585 ug/l  
RT: 4.150 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

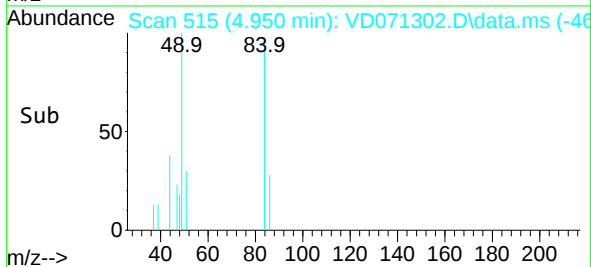
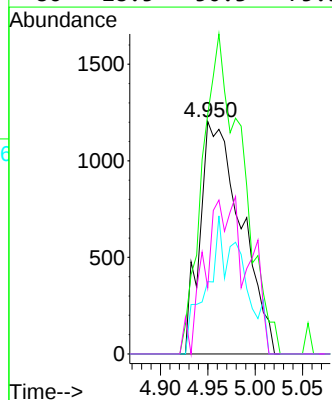
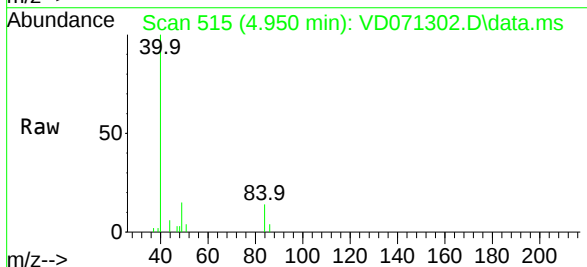
Instrument :  
MSVOA\_D  
ClientSampleId :

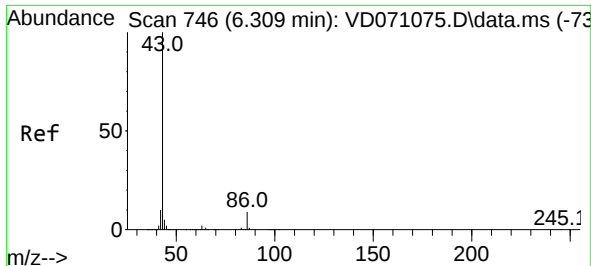
Tgt Ion: 43 Resp: 2558  
Ion Ratio Lower Upper  
43 100  
58 20.1 27.8 41.8#



#20  
Methylene Chloride  
Concen: 4.682 ug/l  
RT: 4.950 min Scan# 515  
Delta R.T. -0.018 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

Tgt Ion: 84 Resp: 3647  
Ion Ratio Lower Upper  
84 100  
49 103.0 95.8 143.6  
51 31.1 30.9 46.3  
86 28.5 50.3 75.5#

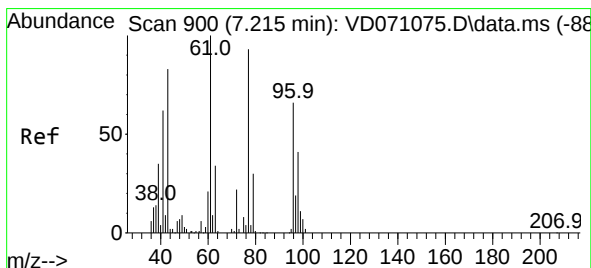
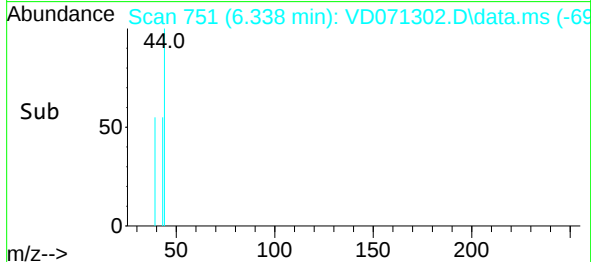
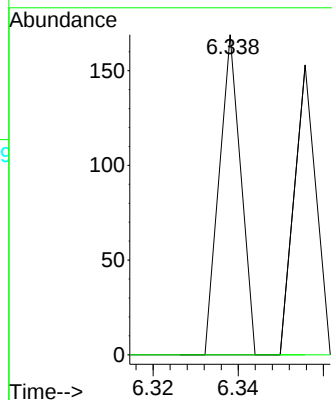
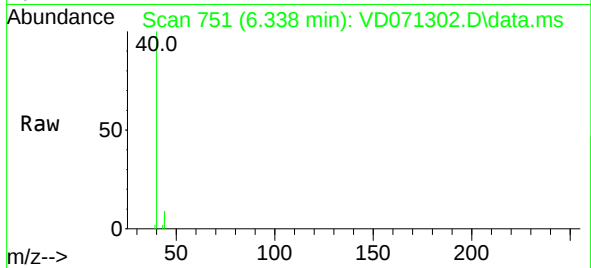




#23  
 Vinyl Acetate  
 Concen: 27.295 ug/l  
 RT: 6.338 min Scan# 71  
 Delta R.T. 0.029 min  
 Lab File: VD071302.D  
 Acq: 13 Dec 2021 17:52

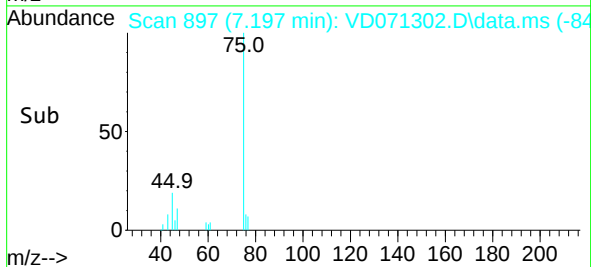
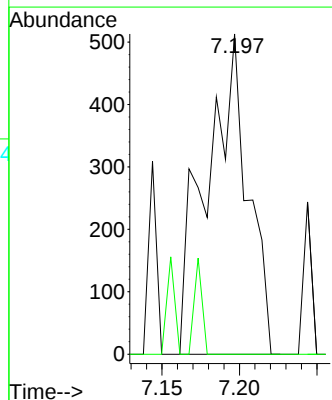
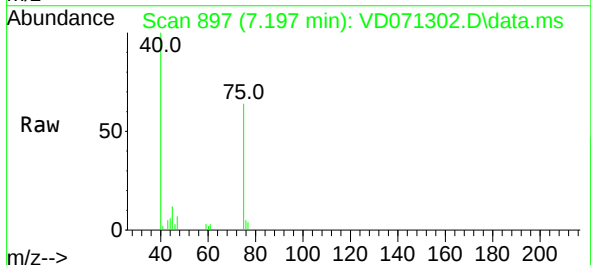
Instrument :  
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 ClientSampleId :

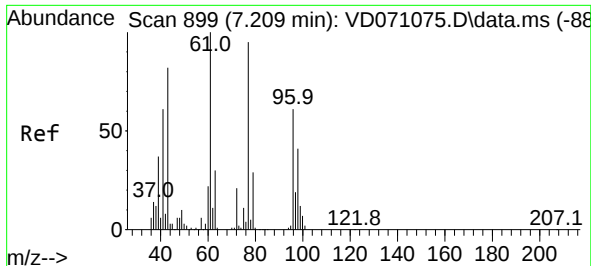
Tgt Ion: 43 Resp: 60  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.2 12.4#



#25  
 2-Butanone  
 Concen: 34.800 ug/l  
 RT: 7.197 min Scan# 897  
 Delta R.T. -0.018 min  
 Lab File: VD071302.D  
 Acq: 13 Dec 2021 17:52

Tgt Ion: 43 Resp: 951  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 23.8 35.6#





#26

2,2-Dichloropropane

Concen: 1.330 ug/l

RT: 7.197 min Scan# 899

Delta R.T. -0.012 min

Lab File: VD071302.D

Acq: 13 Dec 2021 17:52

Instrument :

MSVOA\_D

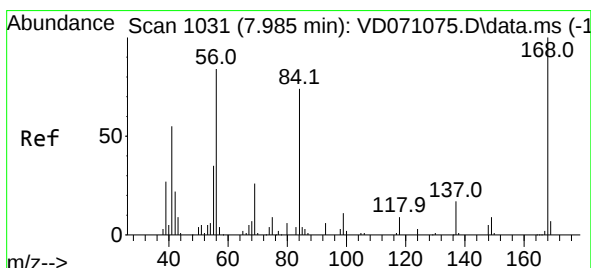
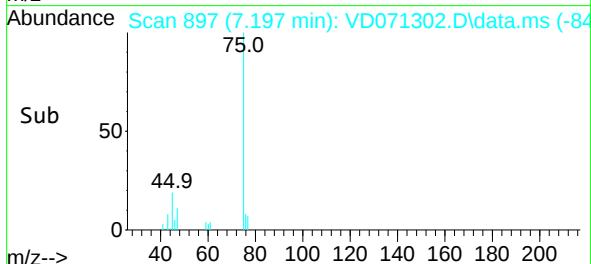
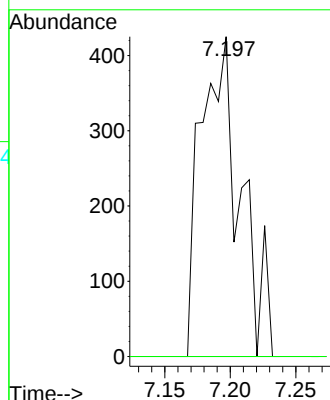
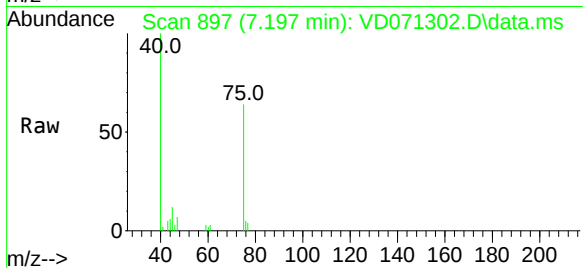
ClientSampleId :

Tgt Ion: 77 Resp: 894

Ion Ratio Lower Upper

77 100

97 0.0 11.9 35.5#



#31

Cyclohexane

Concen: 1.622 ug/l

RT: 7.985 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VD071302.D

Acq: 13 Dec 2021 17:52

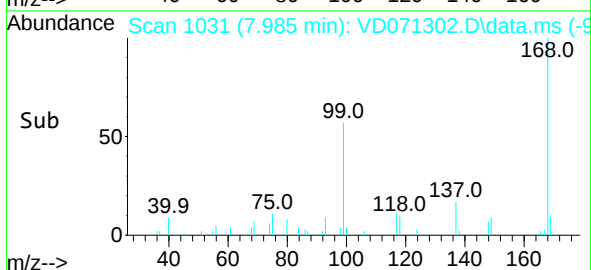
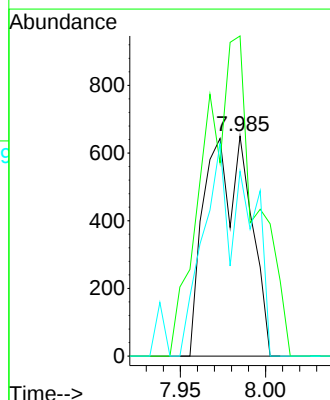
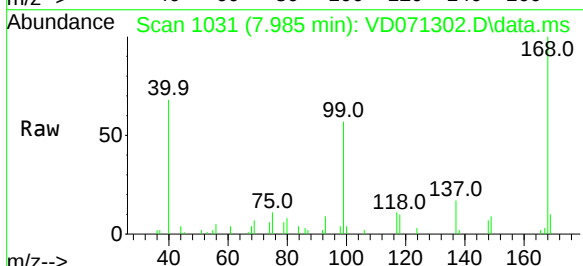
Tgt Ion: 56 Resp: 1178

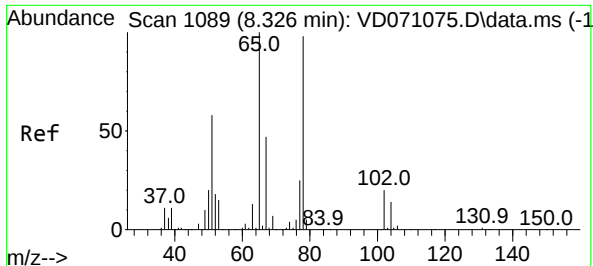
Ion Ratio Lower Upper

56 100

69 114.2 25.9 38.9#

84 84.0 64.3 96.5





#33

1,2-Dichloroethane-d4

Concen: 75.871 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071302.D

Acq: 13 Dec 2021 17:52

Instrument :

MSVOA\_D

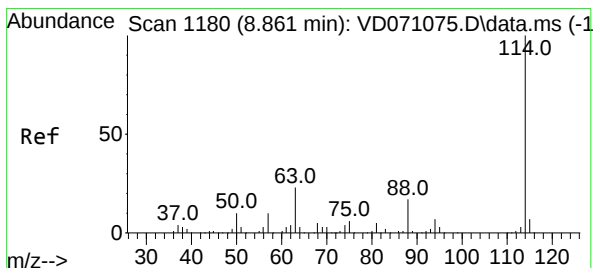
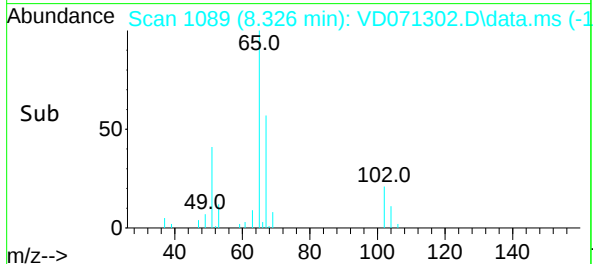
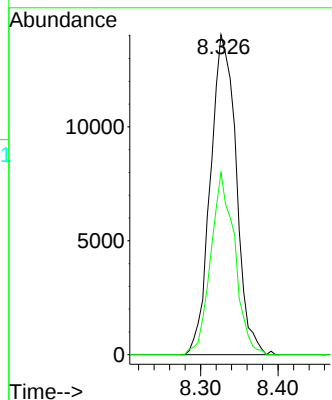
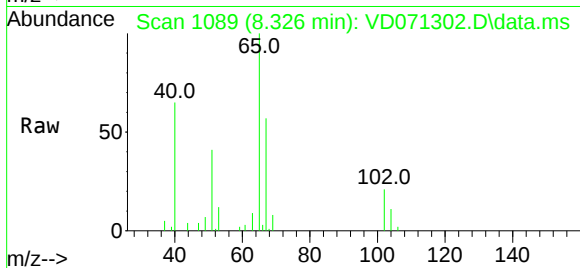
ClientSampleId :

Tgt Ion: 65 Resp: 32385

Ion Ratio Lower Upper

65 100

67 53.0 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071302.D

Acq: 13 Dec 2021 17:52

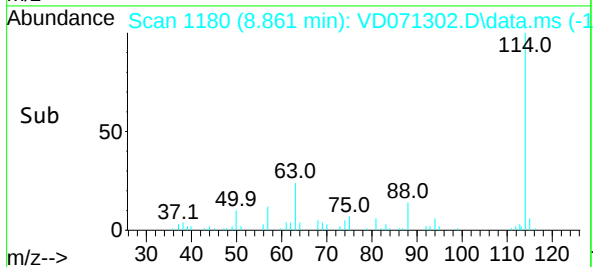
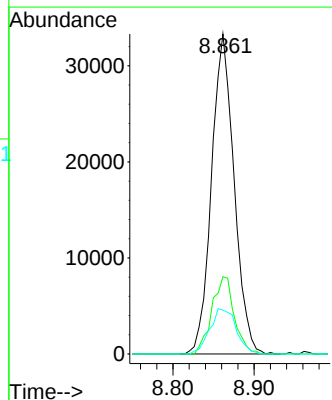
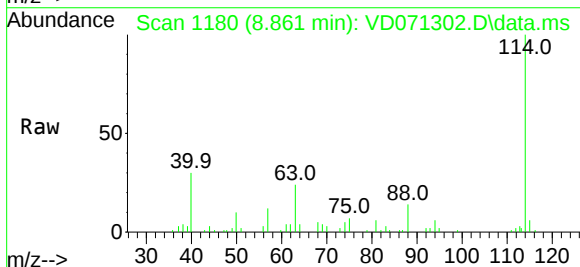
Tgt Ion: 114 Resp: 64360

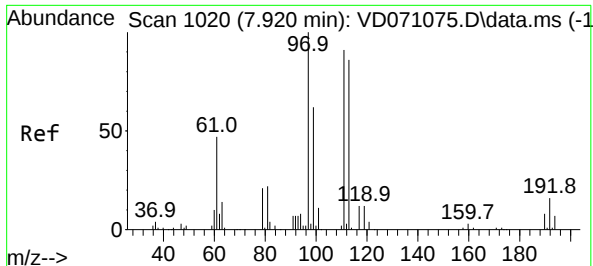
Ion Ratio Lower Upper

114 100

63 24.2 0.0 41.8

88 13.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 57.889 ug/l

RT: 7.920 min Scan# 1020

Delta R.T. 0.000 min

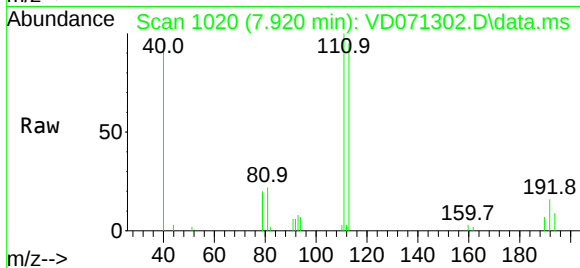
Lab File: VD071302.D

Acq: 13 Dec 2021 17:52

Instrument :

MSVOA\_D

ClientSampleId :



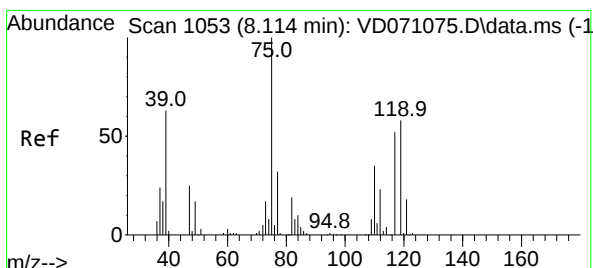
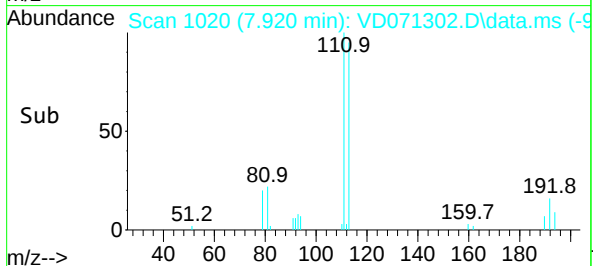
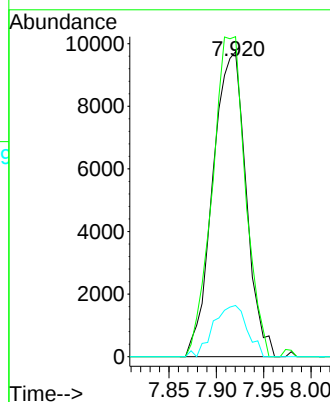
Tgt Ion:113 Resp: 23725

Ion Ratio Lower Upper

113 100

111 104.2 82.0 123.0

192 17.0 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.820 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071302.D

Acq: 13 Dec 2021 17:52

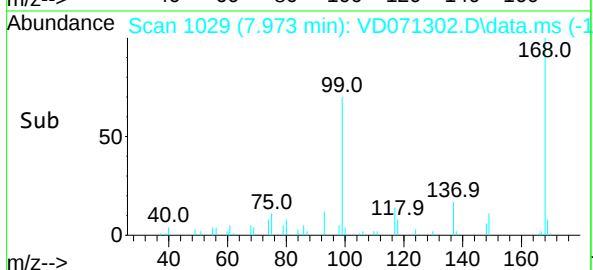
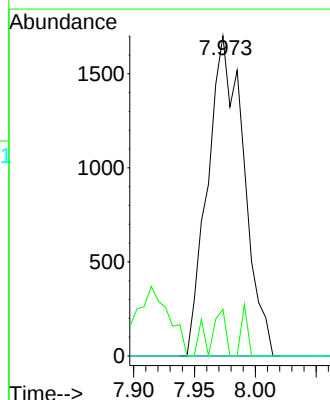
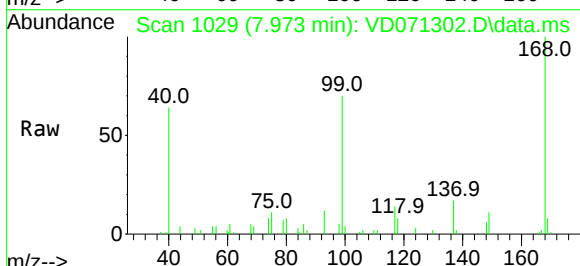
Tgt Ion: 75 Resp: 3501

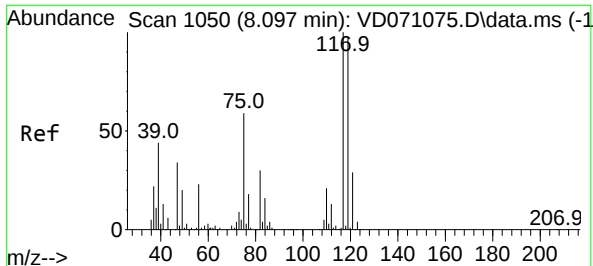
Ion Ratio Lower Upper

75 100

110 6.4 17.8 53.4#

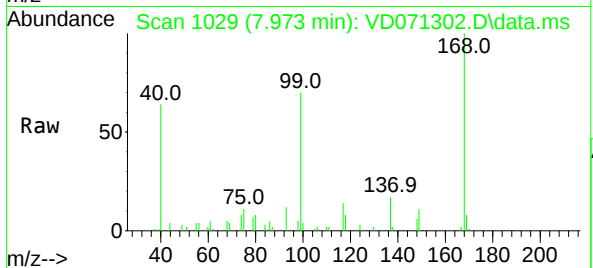
77 0.0 24.8 37.2#



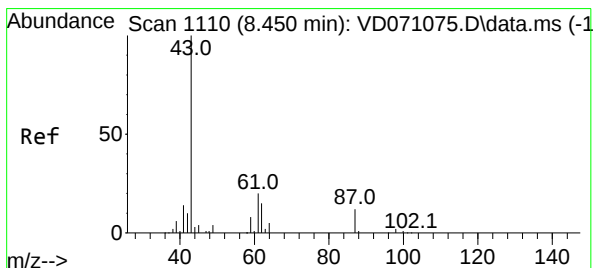
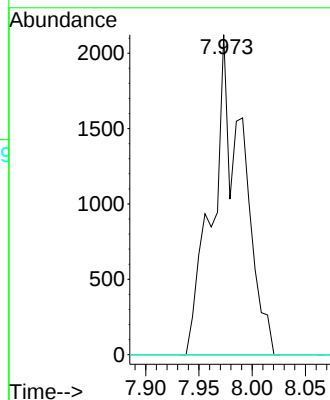
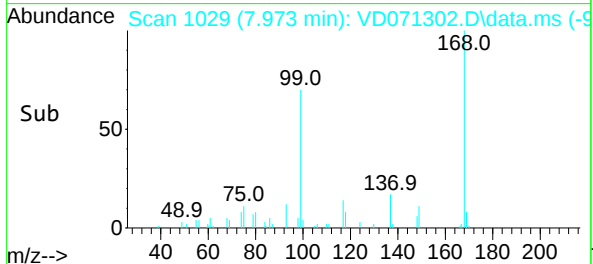


#38  
Carbon Tetrachloride  
Concen: 7.169 ug/l  
RT: 7.973 min Scan# 1109  
Delta R.T. -0.124 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

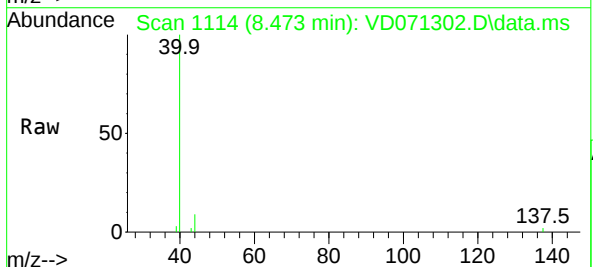
Instrument :  
MSVOA\_D  
ClientSampleId :



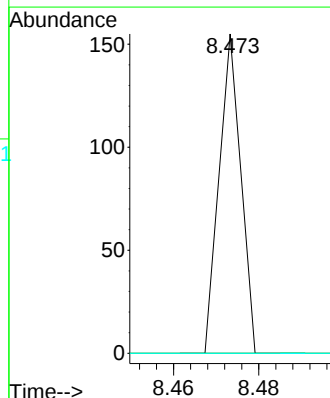
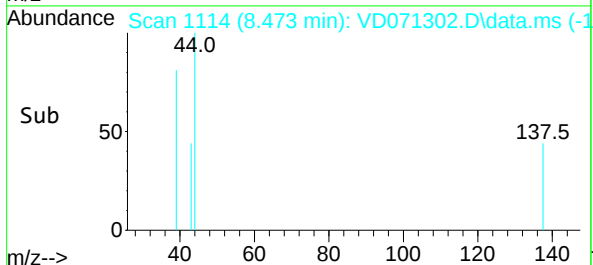
Tgt Ion:117 Resp: 4251  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 23.6 35.4#

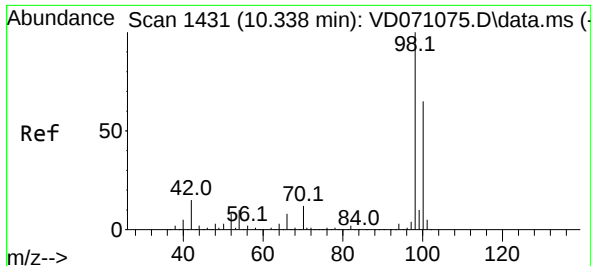


#43  
Isopropyl Acetate  
Concen: 5.309 ug/l  
RT: 8.473 min Scan# 1114  
Delta R.T. 0.023 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52



Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
61 0.0 28.2 42.4#  
87 0.0 10.7 16.1#

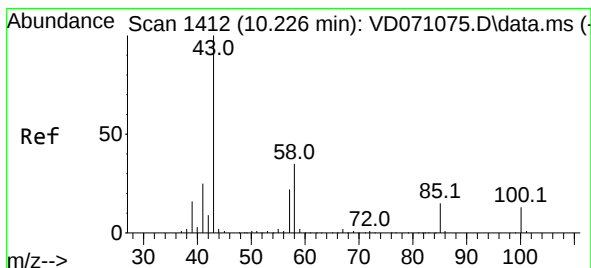
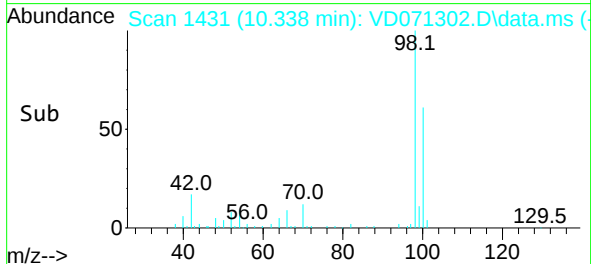
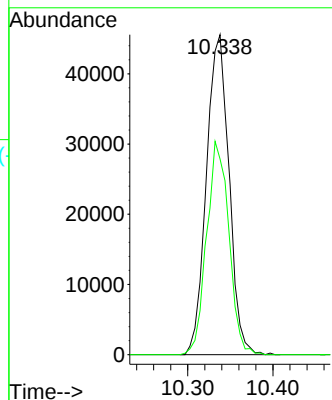
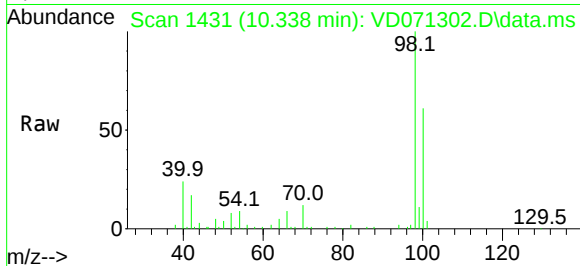




#50  
Toluene-d8  
Concen: 53.866 ug/l  
RT: 10.338 min Scan# 1411  
Delta R.T. -0.000 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

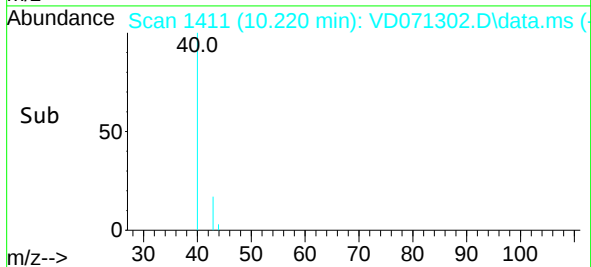
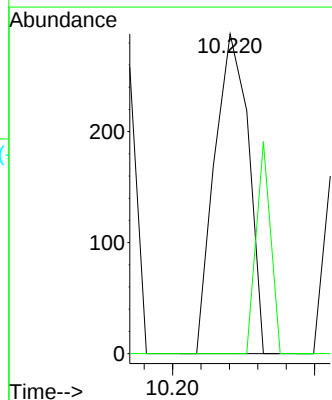
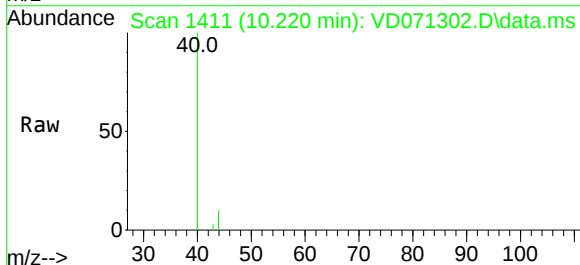
Instrument :  
MSVOA\_D  
ClientSampleId :

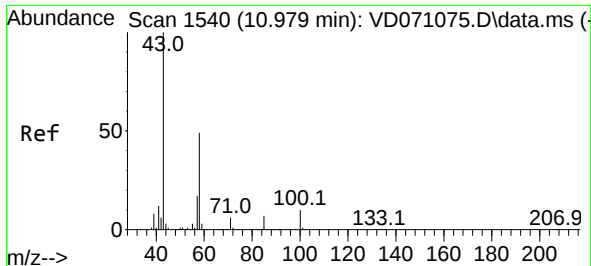
Tgt Ion: 98 Resp: 84011  
Ion Ratio Lower Upper  
98 100  
100 65.6 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 31.367 ug/l  
RT: 10.220 min Scan# 1411  
Delta R.T. -0.006 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

Tgt Ion: 43 Resp: 239  
Ion Ratio Lower Upper  
43 100  
58 28.0 33.1 49.7#

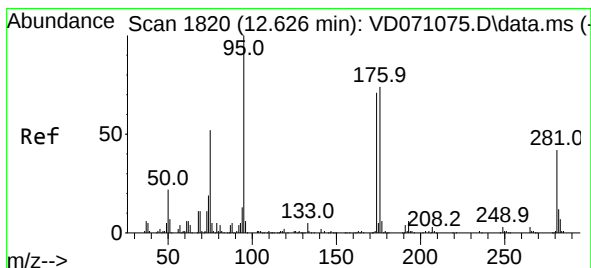
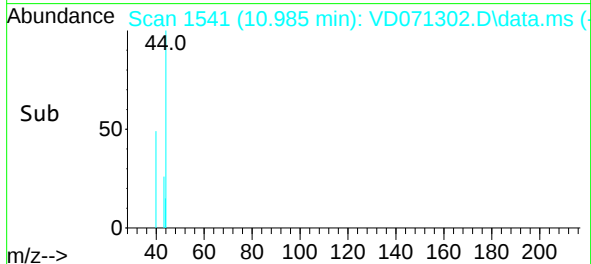
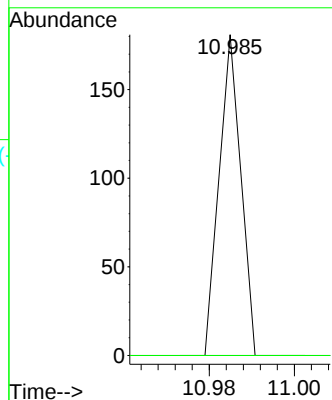
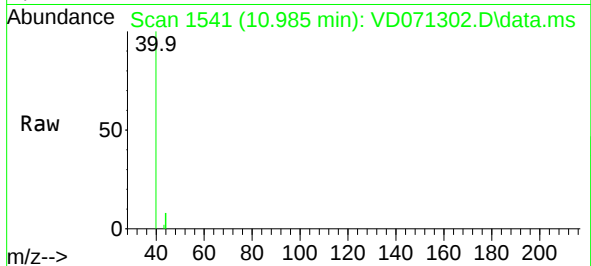




#59  
2-Hexanone  
Concen: 34.824 ug/l  
RT: 10.985 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

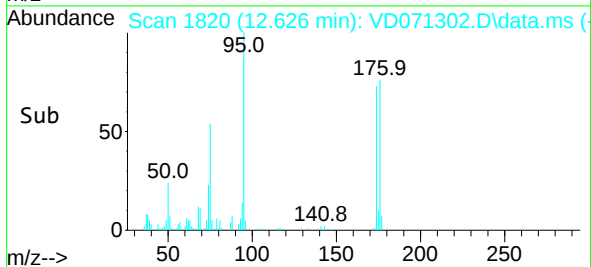
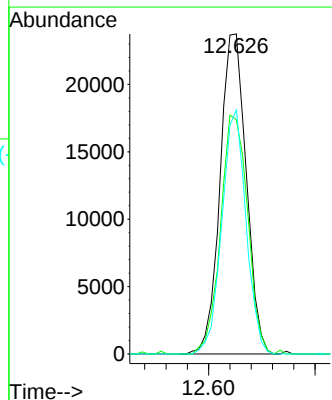
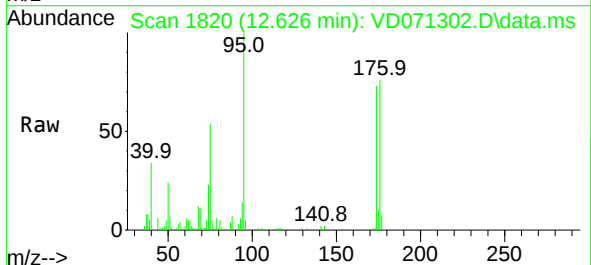
Instrument :  
MSVOA\_D  
ClientSampleId :

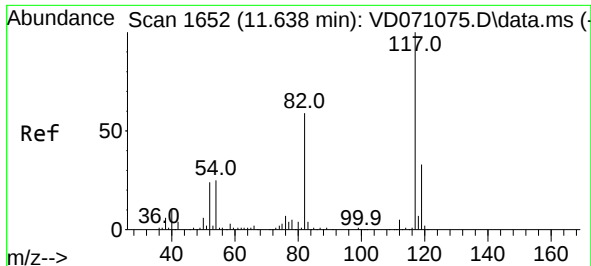
Tgt Ion: 43 Resp: 64  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.7 86.1#



#62  
4-Bromofluorobenzene  
Concen: 74.798 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

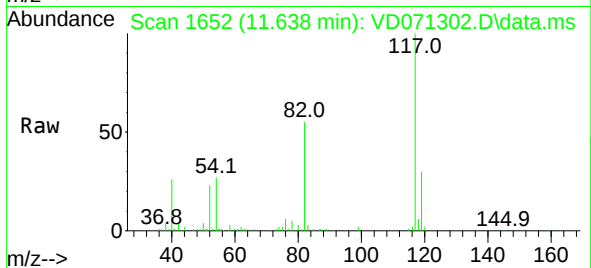
Tgt Ion: 95 Resp: 40438  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 159.4  
176 70.4 0.0 154.0



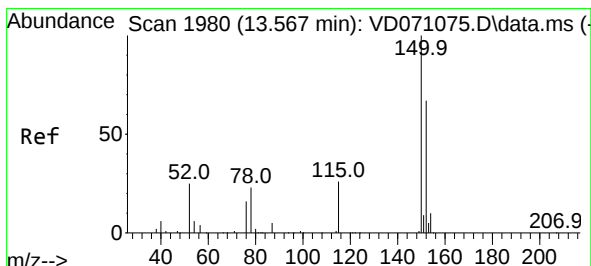
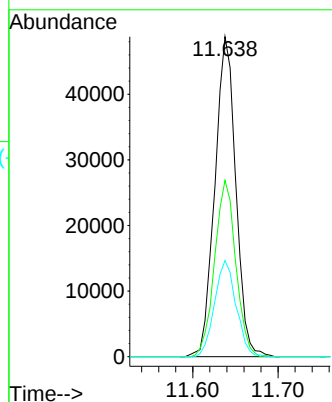
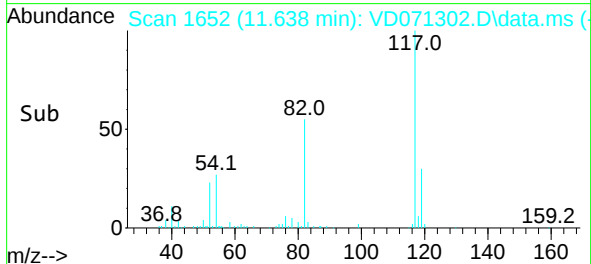


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

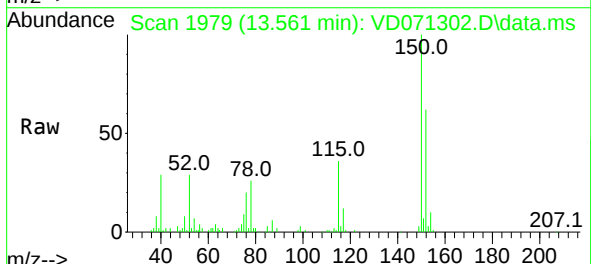
Instrument :  
MSVOA\_D  
ClientSampleId :



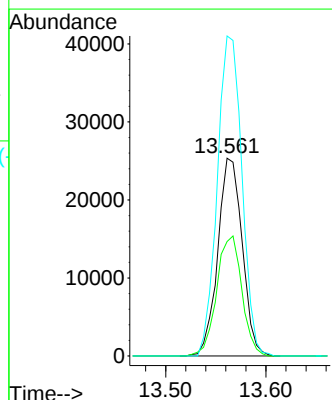
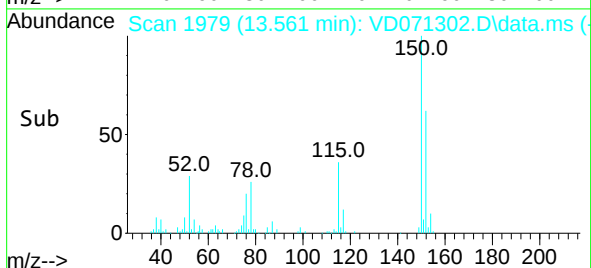
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 83204 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 55.1  | 44.7  | 67.1  |
| 119       | 30.0  | 26.2  | 39.4  |

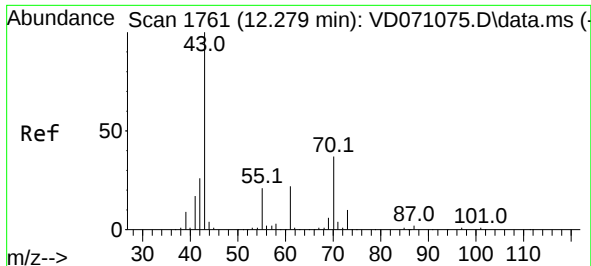


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. -0.006 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52



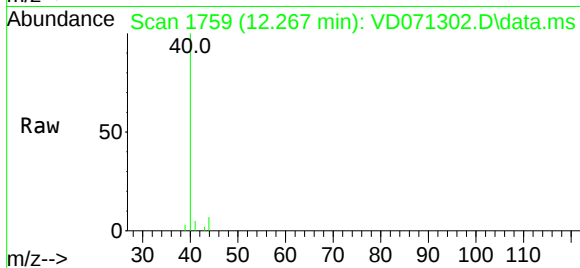
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 42865 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 62.5  | 29.8  | 89.3  |
| 150       | 163.1 | 0.0   | 349.2 |



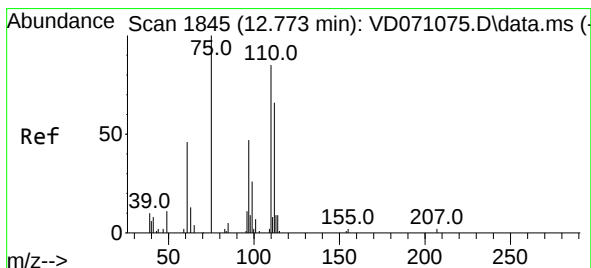
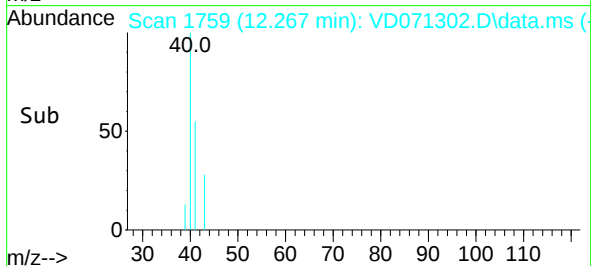
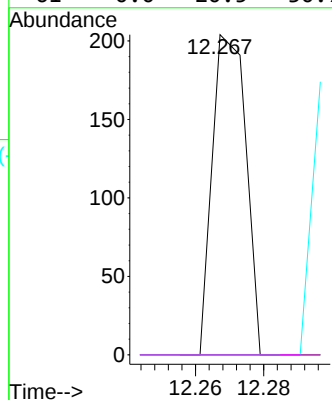


#74  
N-amy1 acetate  
Concen: 5.846 ug/l  
RT: 12.267 min Scan# 1819  
Delta R.T. -0.012 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

Instrument :  
MSVOA\_D  
ClientSampleId :

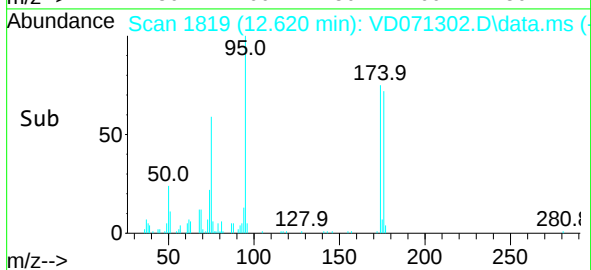
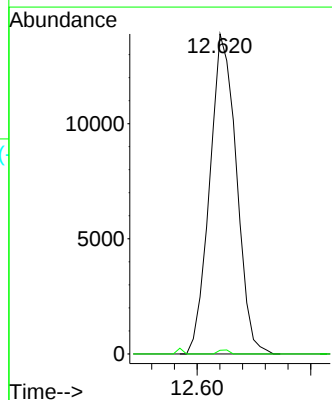
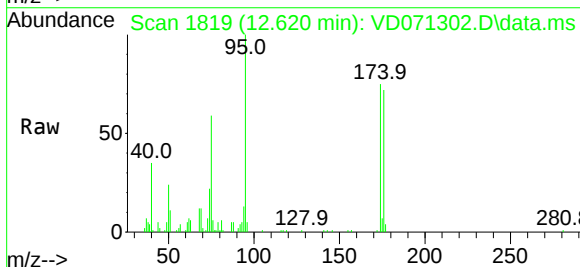


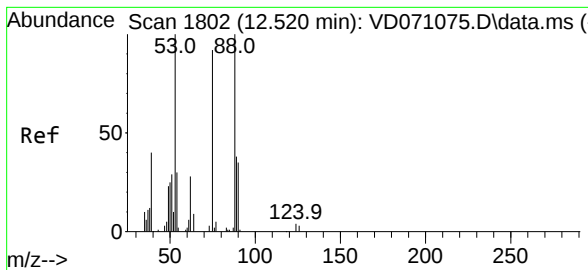
|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 139      |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 70          | 0.0 36.6 55.0# |
| 55          | 0.0 22.5 33.7# |
| 61          | 0.0 20.5 30.7# |



#76  
1,2,3-Trichloropropane  
Concen: 55.588 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD071302.D  
Acq: 13 Dec 2021 17:52

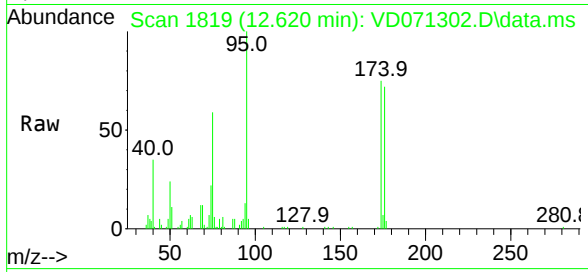
|             |                  |
|-------------|------------------|
| Tgt Ion: 75 | Resp: 22702      |
| Ion Ratio   | Lower Upper      |
| 75          | 100              |
| 77          | 0.5 158.4 475.3# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 120.776 ug/l  
 RT: 12.620 min Scan# 11  
 Delta R.T. 0.100 min  
 Lab File: VD071302.D  
 Acq: 13 Dec 2021 17:52

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 22702  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 62.6 94.0#  
 89 0.0 34.5 51.7#

