

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120821\  
 Data File : VD071201.D  
 Acq On : 08 Dec 2021 13:12  
 Operator : VA/SY  
 Sample : M4955-01RE  
 Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 09 10:15:03 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

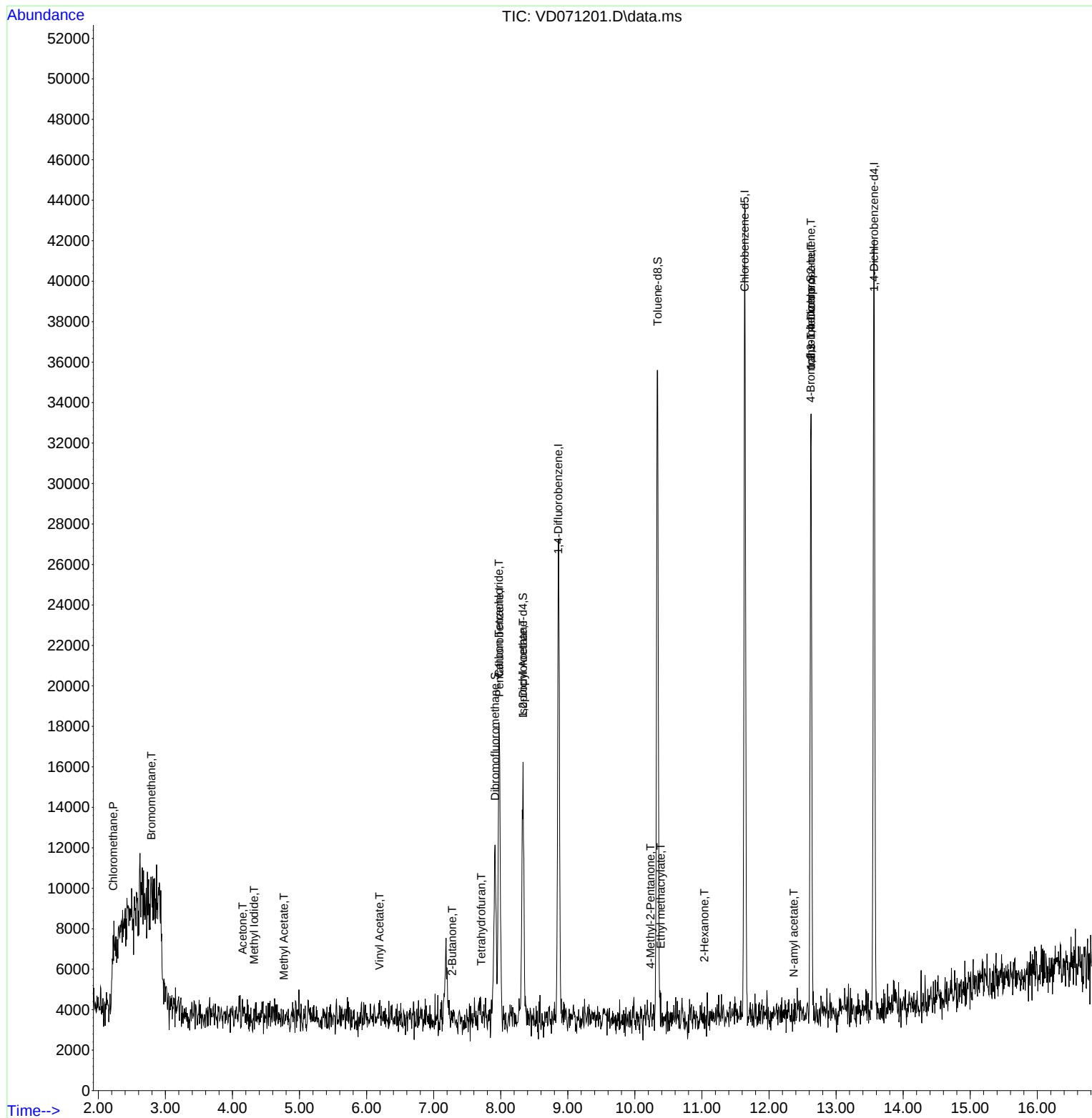
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 9575                | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.856          | 114  | 17675               | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 19776               | 50.000    | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 8991                | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 8579                | 76.359    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 152.720% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 6552                | 58.213    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 116.420% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 20860               | 48.702    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 97.400%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 9165                | 61.729    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 123.460% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 2.221          | 50   | 247                 | 2.287     | ug/l # | 1        |
| 5) Bromomethane               | 2.791          | 94   | 526                 | 6.054     | ug/l   | 99       |
| 10) Methyl Iodide             | 4.321          | 142  | 127                 | 5.591     | ug/l # | 40       |
| 16) Acetone                   | 4.150          | 43   | 209                 | 36.939    | ug/l # | 40       |
| 18) Methyl Acetate            | 4.768          | 43   | 112                 | 1.351     | ug/l # | 51       |
| 20) Methylene Chloride        | 4.973          | 84   | 127                 | Below Cal | #      | 52       |
| 23) Vinyl Acetate             | 6.191          | 43   | 67                  | 27.545    | ug/l # | 72       |
| 25) 2-Butanone                | 7.273          | 43   | 67                  | 30.083    | ug/l # | 45       |
| 29) Tetrahydrofuran           | 7.709          | 42   | 101                 | 5.661     | ug/l # | 34       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 1144                | 7.025     | ug/l # | 12       |
| 41) Methacrylonitrile         | 7.479          | 41   | 98                  | Below Cal | #      | 27       |
| 43) Isopropyl Acetate         | 8.332          | 43   | 55                  | 5.537     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.232         | 43   | 74                  | 31.459    | ug/l # | 34       |
| 56) Ethyl methacrylate        | 10.385         | 69   | 68                  | 6.488     | ug/l # | 2        |
| 59) 2-Hexanone                | 11.038         | 43   | 75                  | 35.640    | ug/l # | 22       |
| 74) N-amyl acetate            | 12.367         | 43   | 67                  | 6.034     | ug/l # | 40       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 4397                | 51.329    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 4397                | 111.966   | ug/l # | 18       |
| -----                         |                |      |                     |           |        |          |

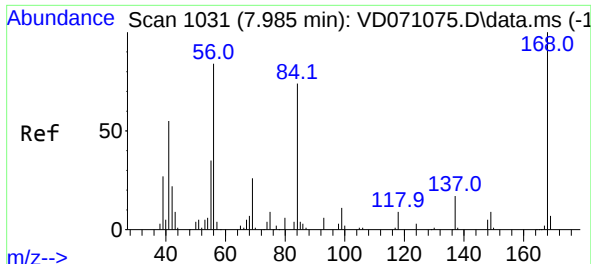
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M4955-01RE  
Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 09 10:15:03 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

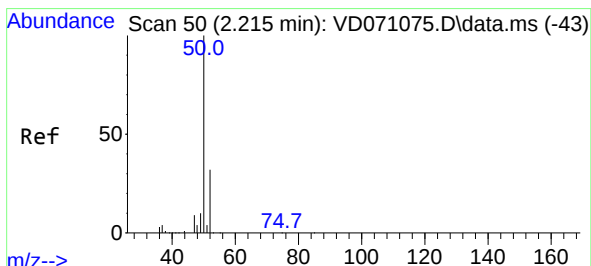
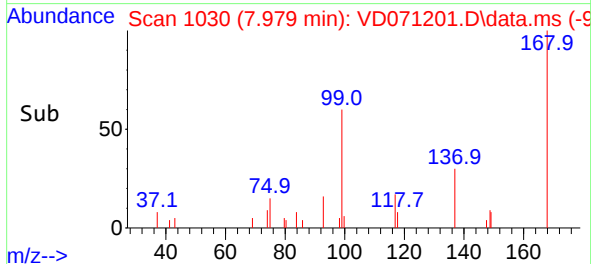
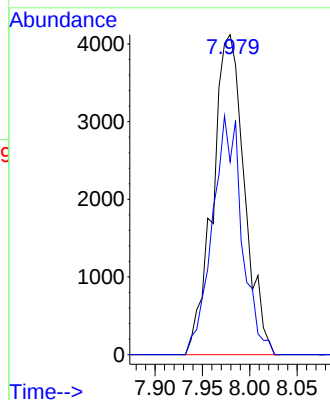
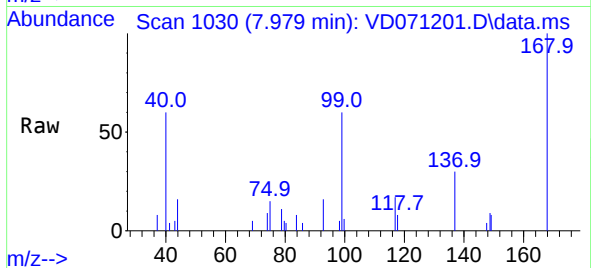




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

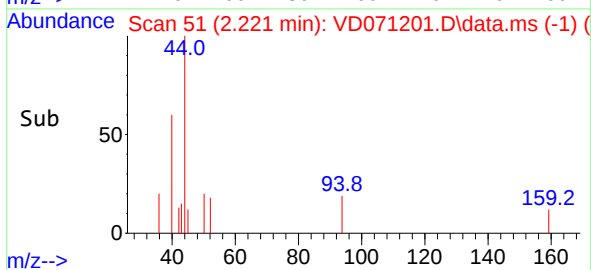
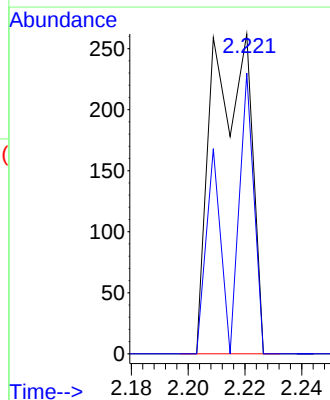
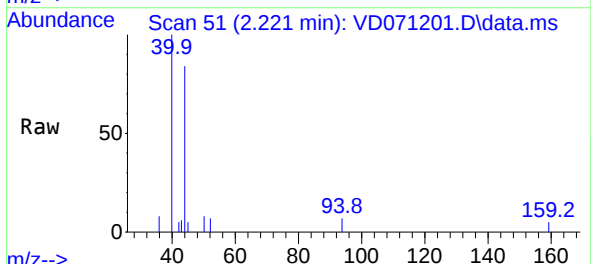
Instrument :  
MSVOA\_D  
ClientSampleId :

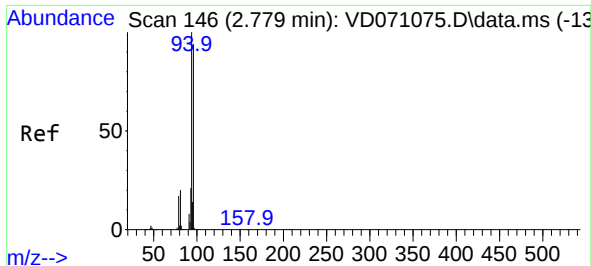
Tgt Ion:168 Resp: 9575  
Ion Ratio Lower Upper  
168 100  
99 60.3 46.6 69.8



#3  
Chloromethane  
Concen: 2.287 ug/l  
RT: 2.221 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

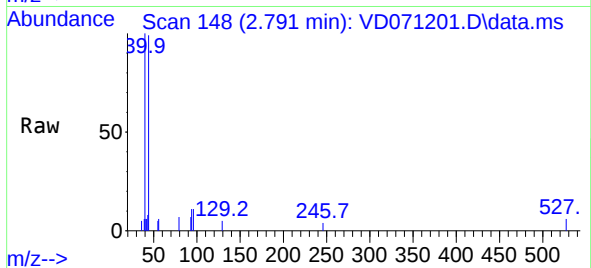
Tgt Ion: 50 Resp: 247  
Ion Ratio Lower Upper  
50 100  
52 87.8 25.8 38.8#



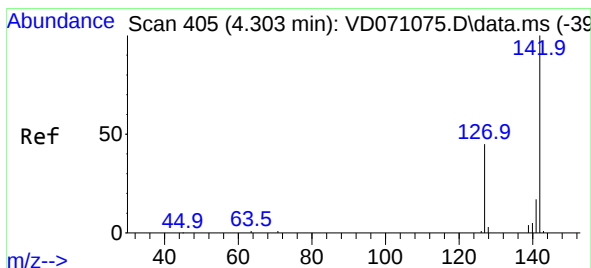
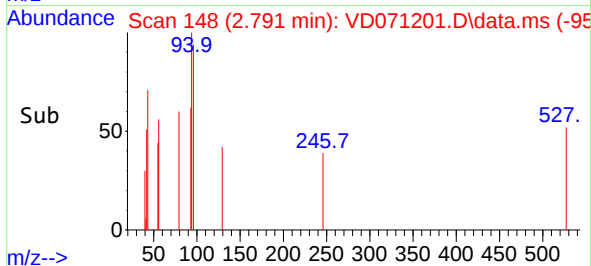
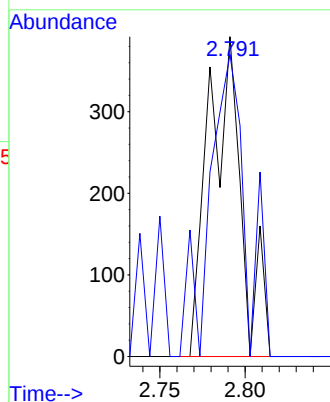


#5  
Bromomethane  
Concen: 6.054 ug/l  
RT: 2.791 min Scan# 14  
Delta R.T. 0.012 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Instrument :  
MSVOA\_D  
ClientSampleId :

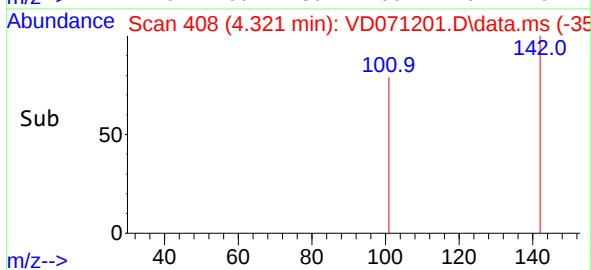
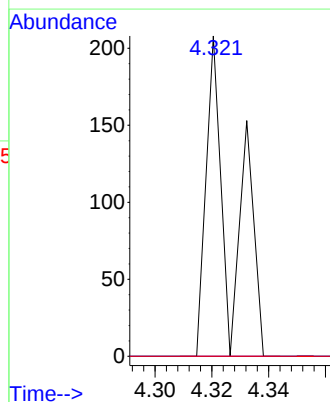
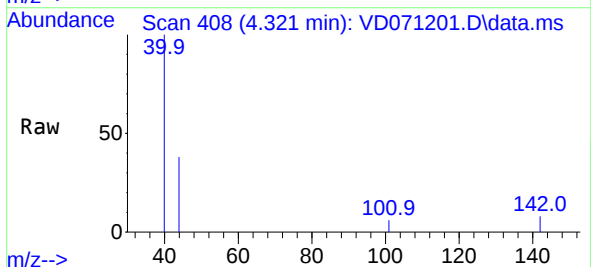


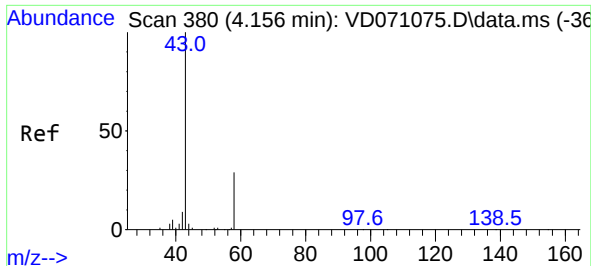
Tgt Ion: 94 Resp: 526  
Ion Ratio Lower Upper  
94 100  
96 94.4 74.8 112.2



#10  
Methyl Iodide  
Concen: 5.591 ug/l  
RT: 4.321 min Scan# 408  
Delta R.T. 0.018 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Tgt Ion: 142 Resp: 127  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.4#  
141 0.0 12.0 18.0#

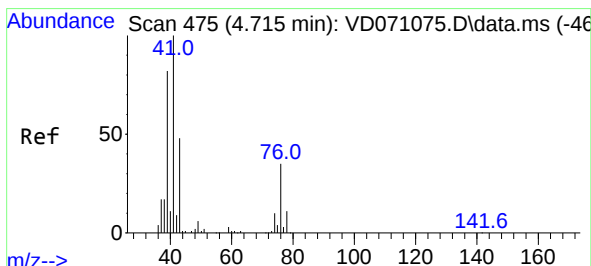
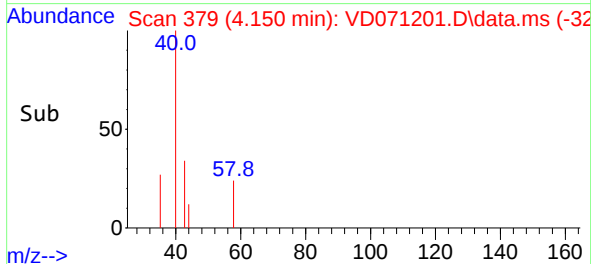
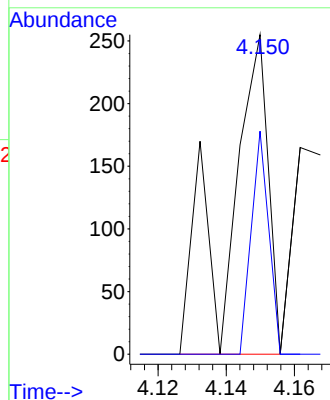
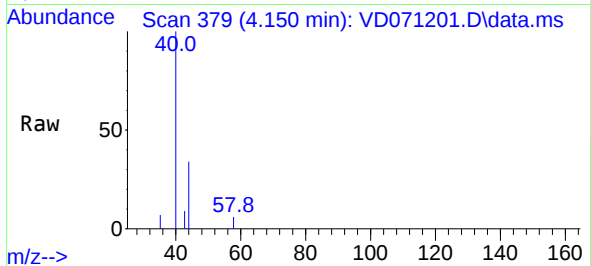




#16  
Acetone  
Concen: 36.939 ug/l  
RT: 4.150 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

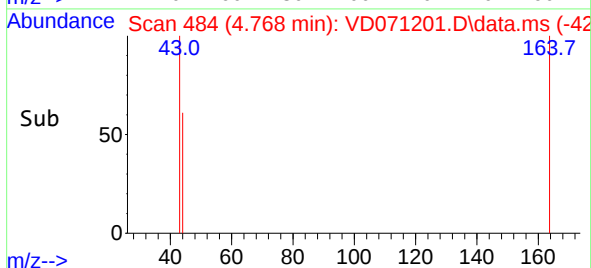
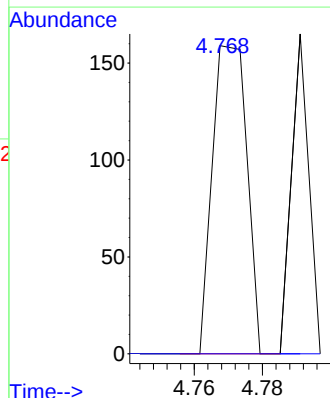
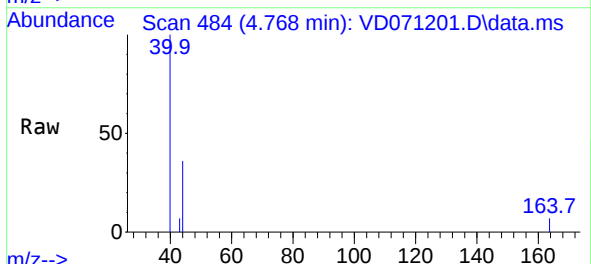
Instrument :  
MSVOA\_D  
ClientSampleId :

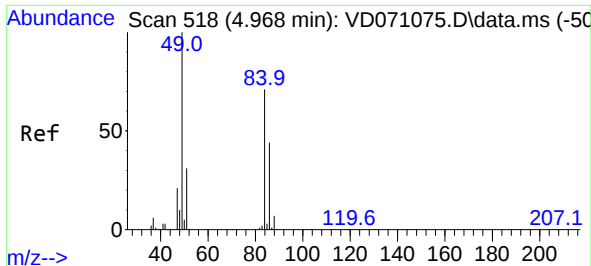
Tgt Ion: 43 Resp: 209  
Ion Ratio Lower Upper  
43 100  
58 69.8 27.8 41.8#



#18  
Methyl Acetate  
Concen: 1.351 ug/l  
RT: 4.768 min Scan# 484  
Delta R.T. 0.053 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Tgt Ion: 43 Resp: 112  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.3 28.9#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.973 min Scan# 51

Delta R.T. 0.005 min

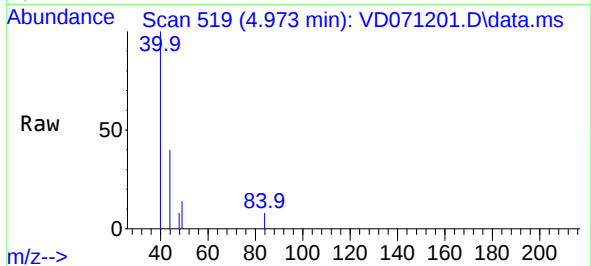
Lab File: VD071201.D

Acq: 08 Dec 2021 13:12

Instrument :

MSVOA\_D

ClientSampleId :



Tgt Ion: 84 Resp: 127

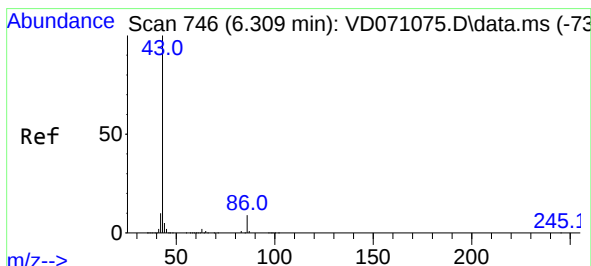
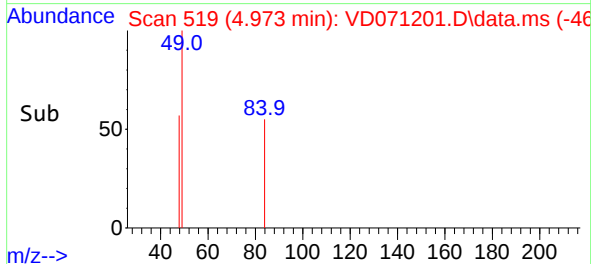
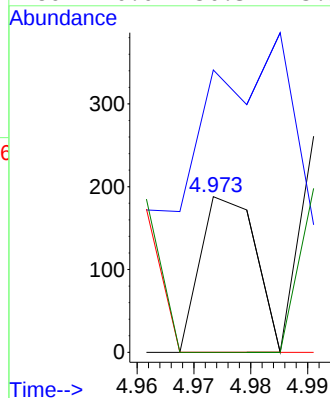
Ion Ratio Lower Upper

84 100

49 91.0 95.8 143.6#

51 0.0 30.9 46.3#

86 0.0 50.3 75.5#



#23

Vinyl Acetate

Concen: 27.545 ug/l

RT: 6.191 min Scan# 726

Delta R.T. -0.118 min

Lab File: VD071201.D

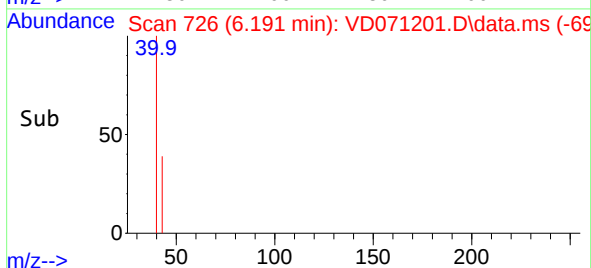
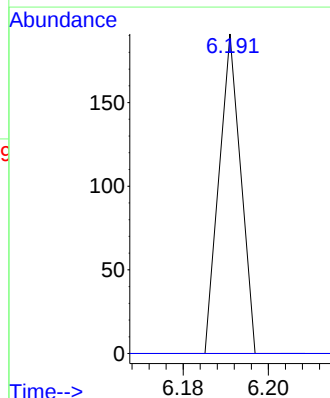
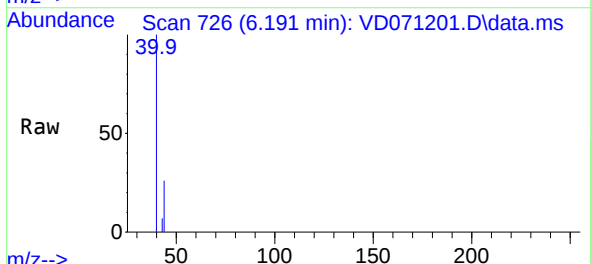
Acq: 08 Dec 2021 13:12

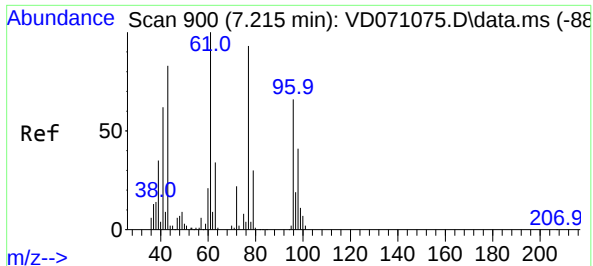
Tgt Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#





#25

2-Butanone

Concen: 30.083 ug/l

RT: 7.273 min Scan# 91

Delta R.T. 0.058 min

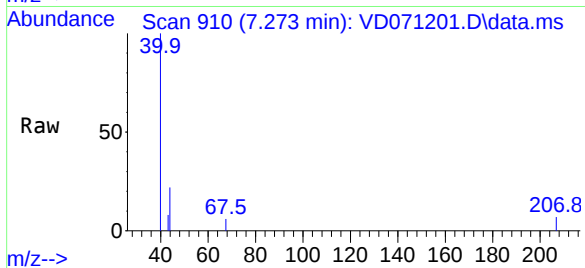
Lab File: VD071201.D

Acq: 08 Dec 2021 13:12

Instrument :

MSVOA\_D

ClientSampleId :

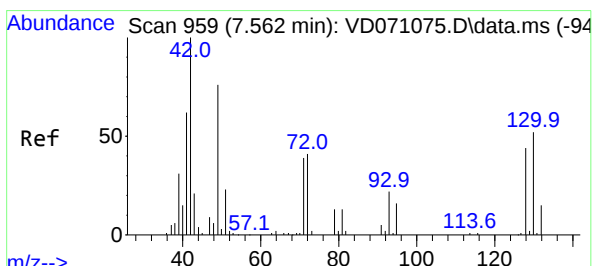
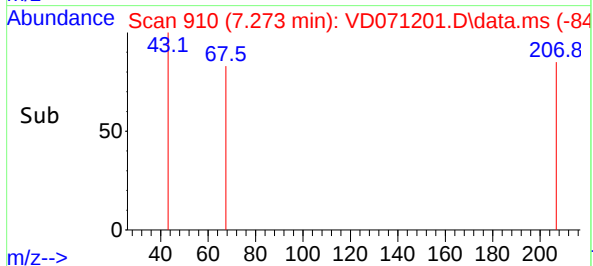
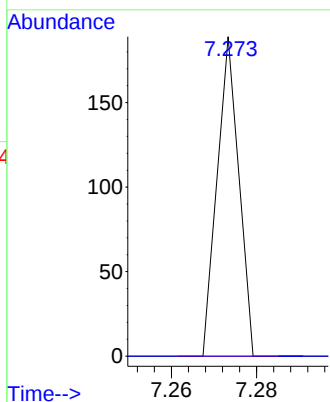


Tgt Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#29

Tetrahydrofuran

Concen: 5.661 ug/l

RT: 7.709 min Scan# 984

Delta R.T. 0.147 min

Lab File: VD071201.D

Acq: 08 Dec 2021 13:12

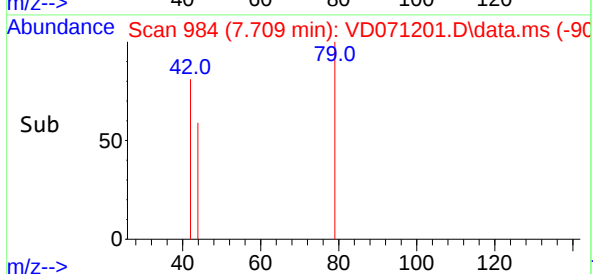
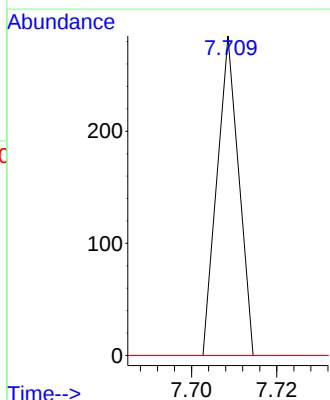
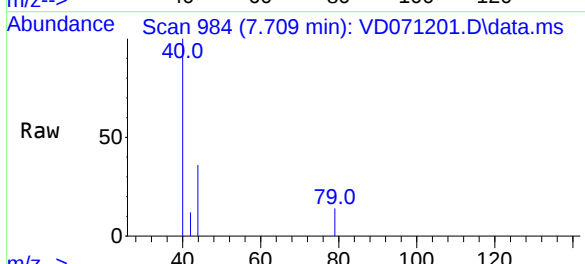
Tgt Ion: 42 Resp: 101

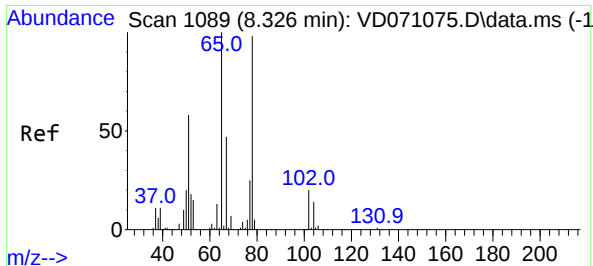
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#

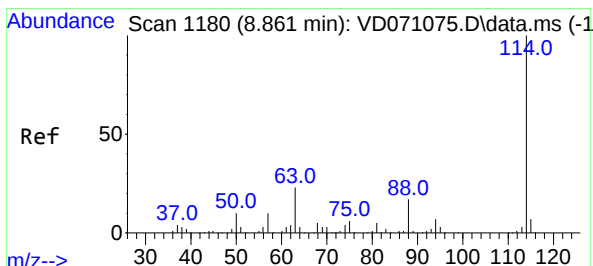
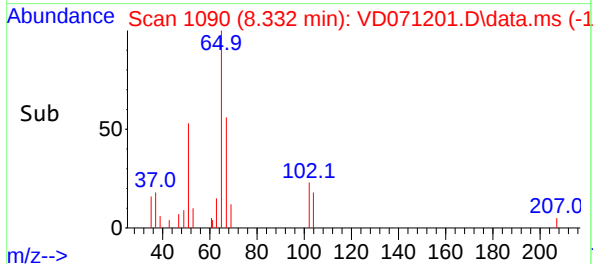
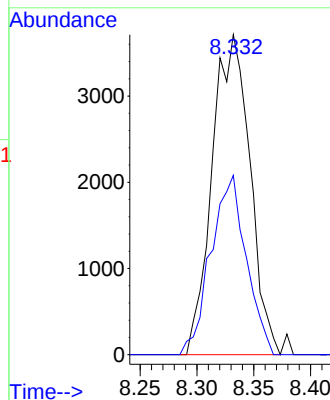
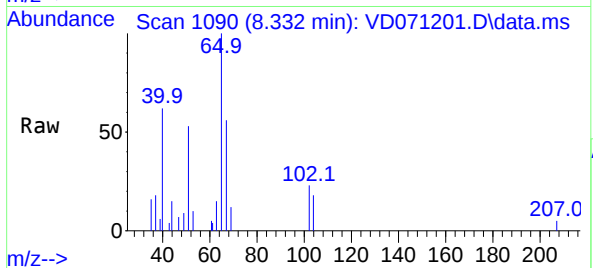




#33  
1,2-Dichloroethane-d4  
Concen: 76.359 ug/l  
RT: 8.332 min Scan# 1107  
Delta R.T. 0.006 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

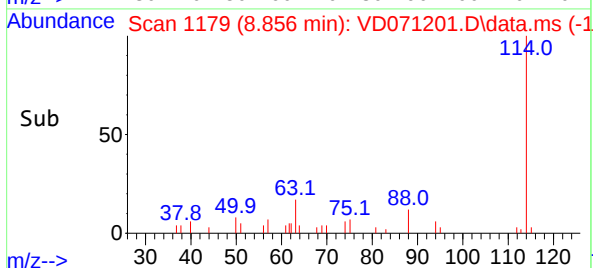
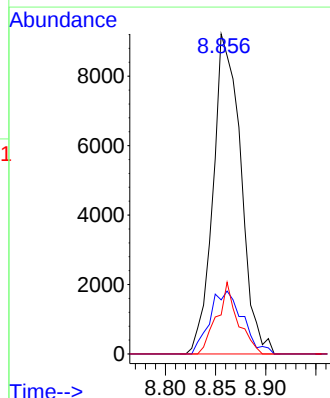
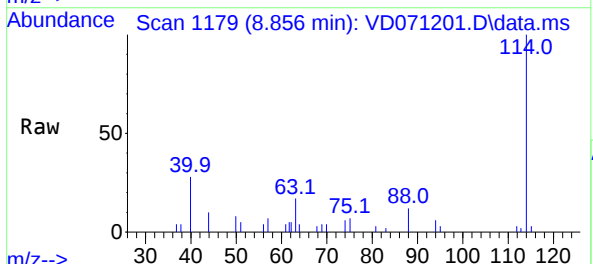
Instrument :  
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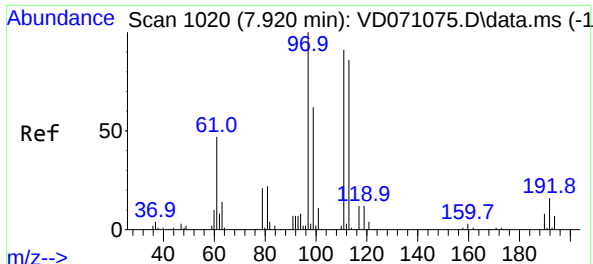
Tgt Ion: 65 Resp: 8579  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 112.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.856 min Scan# 1179  
Delta R.T. -0.005 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

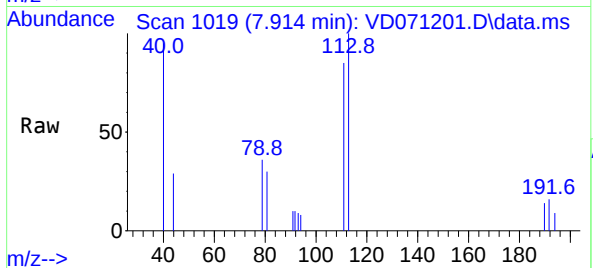
Tgt Ion: 114 Resp: 17675  
Ion Ratio Lower Upper  
114 100  
63 16.9 0.0 41.8  
88 12.2 0.0 32.8



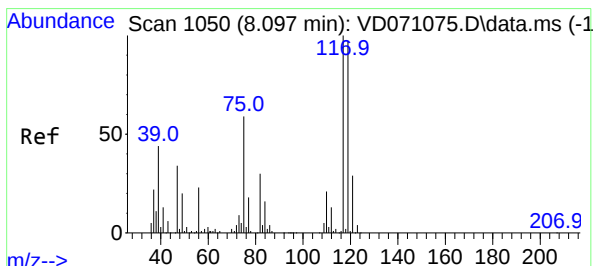
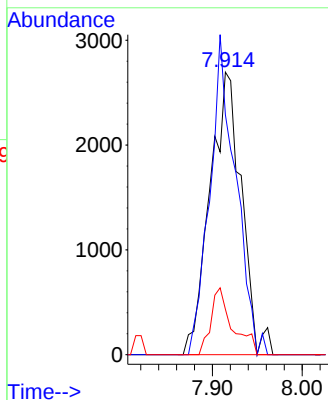
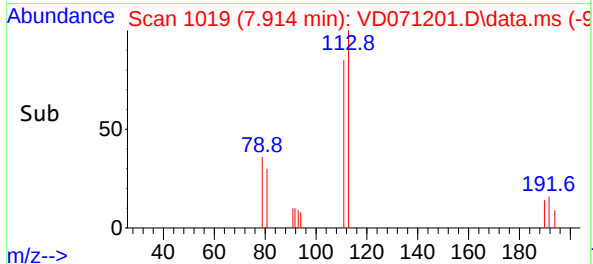


#35  
Dibromofluoromethane  
Concen: 58.213 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Instrument :  
MSVOA\_D  
ClientSampleId :

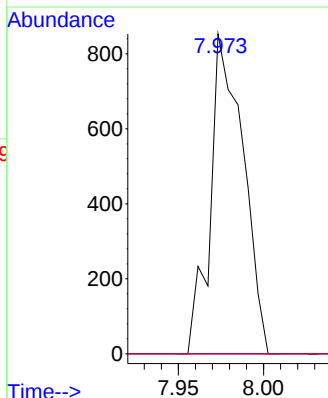
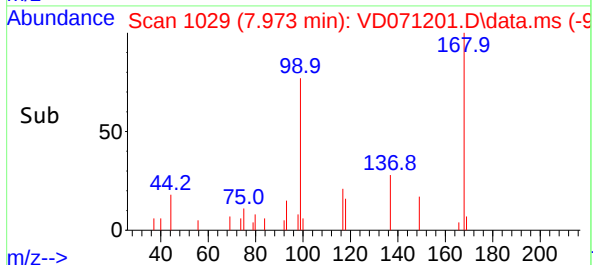
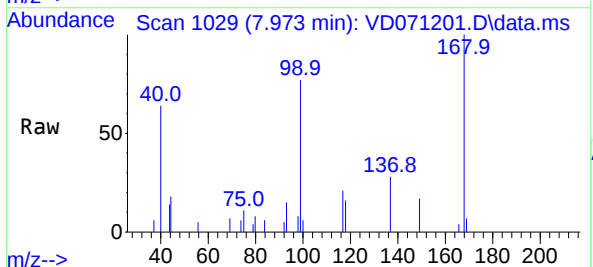


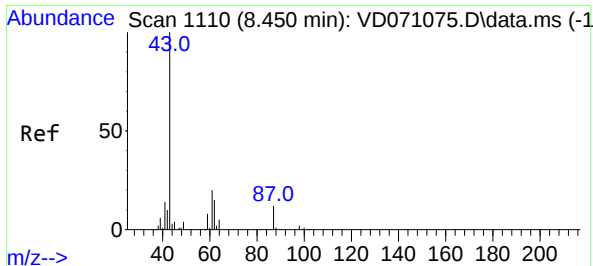
Tgt Ion:113 Resp: 6552  
Ion Ratio Lower Upper  
113 100  
111 92.9 82.0 123.0  
192 16.3 15.2 22.8



#38  
Carbon Tetrachloride  
Concen: 7.025 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.124 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

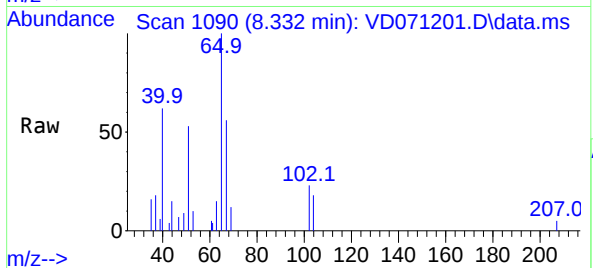
Tgt Ion:117 Resp: 1144  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 23.6 35.4#



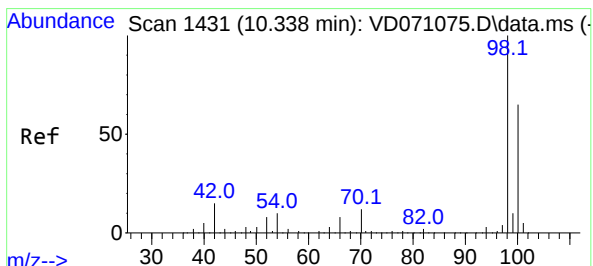
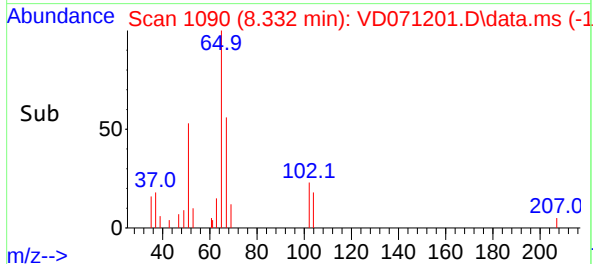
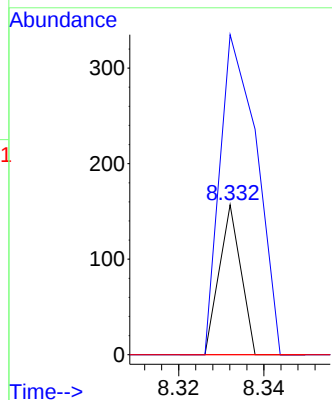


#43  
Isopropyl Acetate  
Concen: 5.537 ug/l  
RT: 8.332 min Scan# 1110  
Delta R.T. -0.118 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Instrument :  
MSVOA\_D  
ClientSampleId :

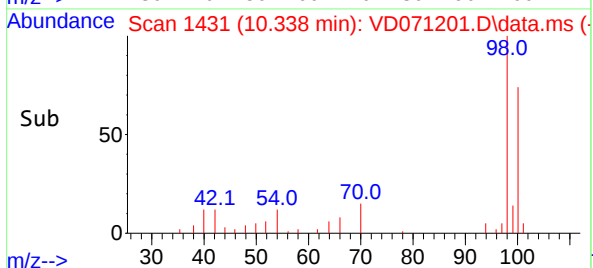
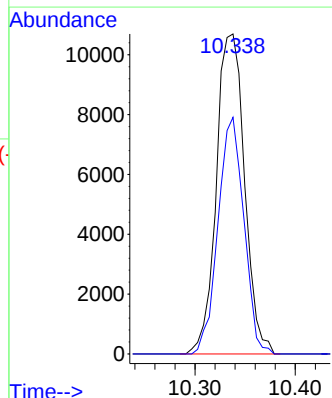
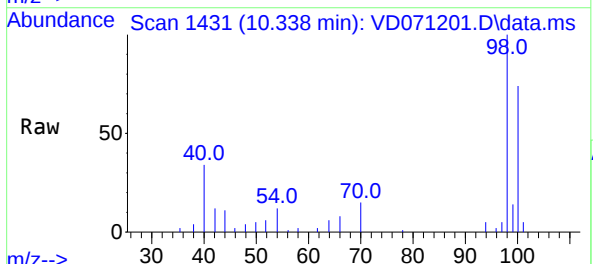


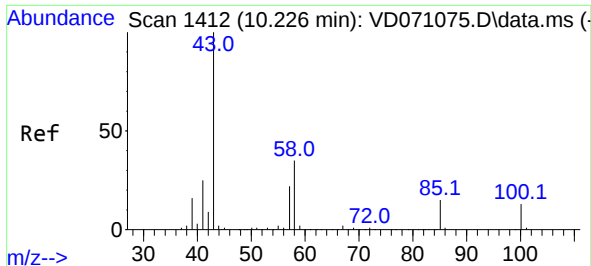
Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
61 367.3 28.2 42.4#  
87 0.0 10.7 16.1#



#50  
Toluene-d8  
Concen: 48.702 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Tgt Ion: 98 Resp: 20860  
Ion Ratio Lower Upper  
98 100  
100 67.8 51.8 77.6

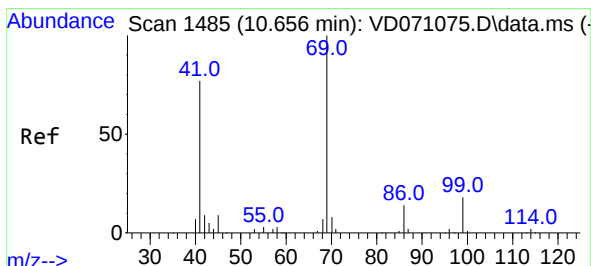
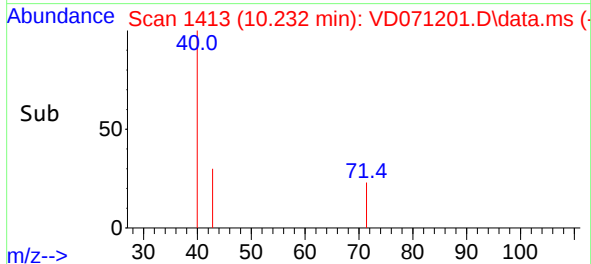
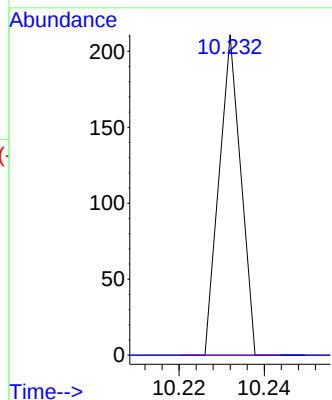
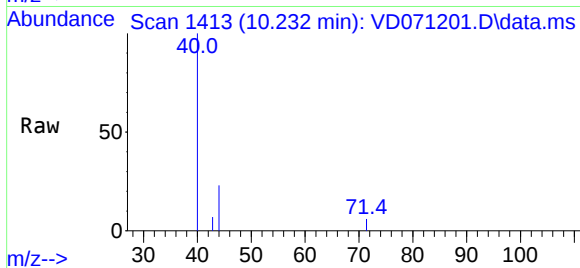




#51  
4-Methyl-2-Pentanone  
Concen: 31.459 ug/l  
RT: 10.232 min Scan# 1412  
Delta R.T. 0.006 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

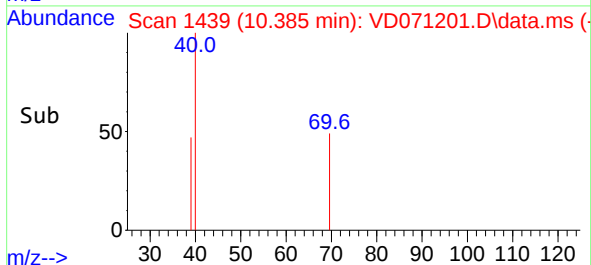
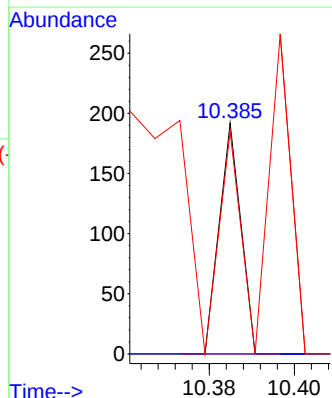
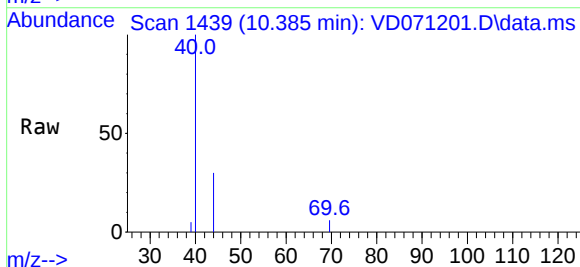
Instrument :  
MSVOA\_D  
ClientSampleId :

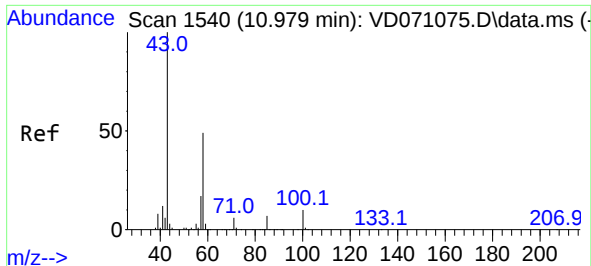
Tgt Ion: 43 Resp: 74  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#



#56  
Ethyl methacrylate  
Concen: 6.488 ug/l  
RT: 10.385 min Scan# 1439  
Delta R.T. -0.271 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Tgt Ion: 69 Resp: 68  
Ion Ratio Lower Upper  
69 100  
41 0.0 50.2 75.2#  
39 95.6 19.8 29.8#

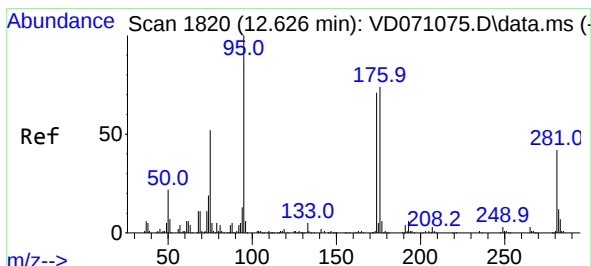
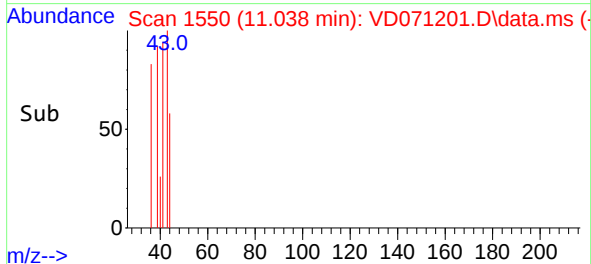
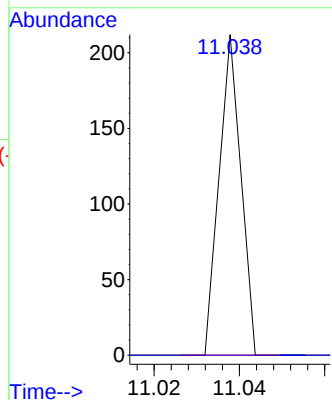
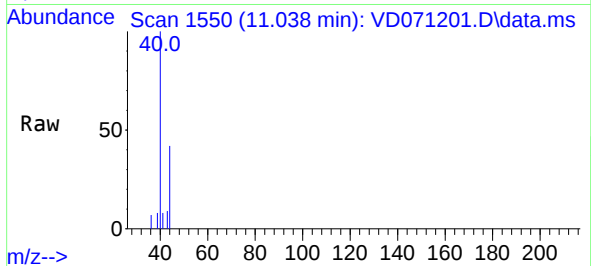




#59  
2-Hexanone  
Concen: 35.640 ug/l  
RT: 11.038 min Scan# 11  
Delta R.T. 0.059 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

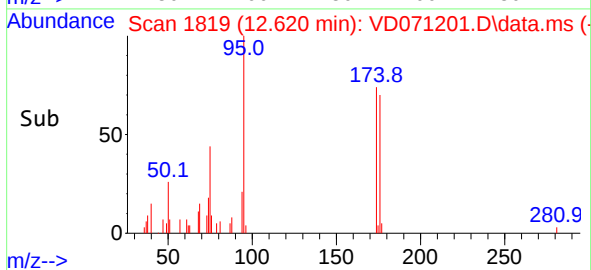
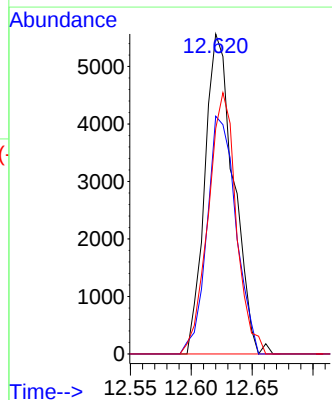
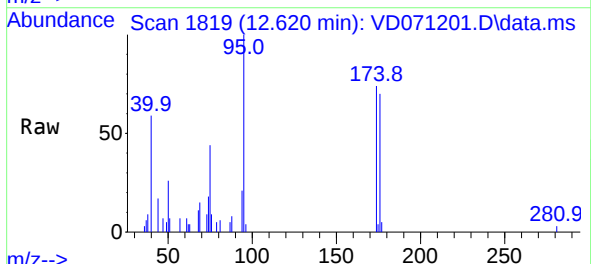
Instrument :  
MSVOA\_D  
ClientSampleId :

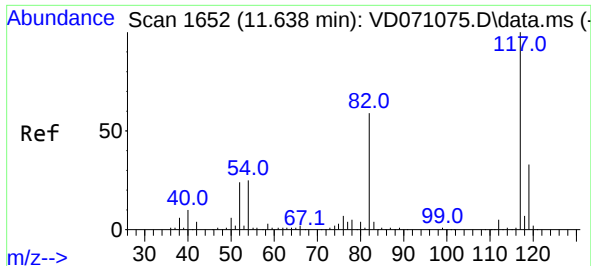
Tgt Ion: 43 Resp: 75  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.7 86.1#



#62  
4-Bromofluorobenzene  
Concen: 61.729 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

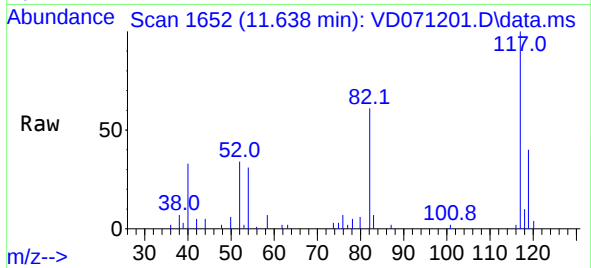
Tgt Ion: 95 Resp: 9165  
Ion Ratio Lower Upper  
95 100  
174 74.9 0.0 159.4  
176 79.4 0.0 154.0



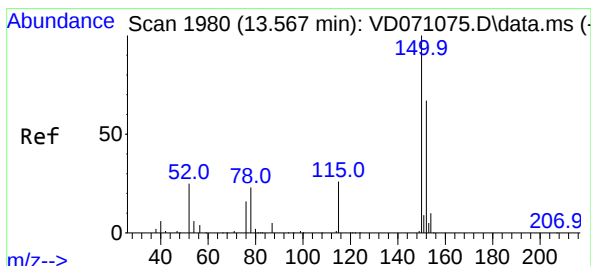
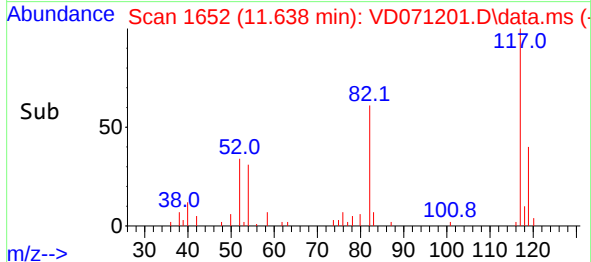
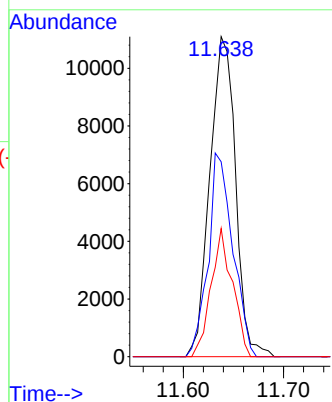


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 11776  
Delta R.T. -0.000 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Instrument :  
MSVOA\_D  
ClientSampleId :

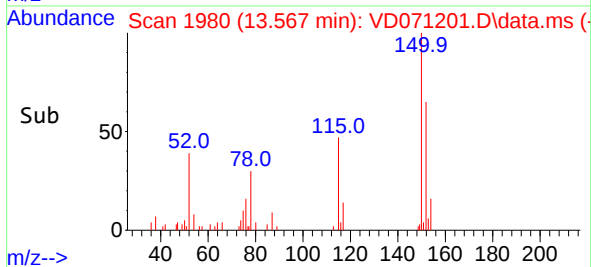
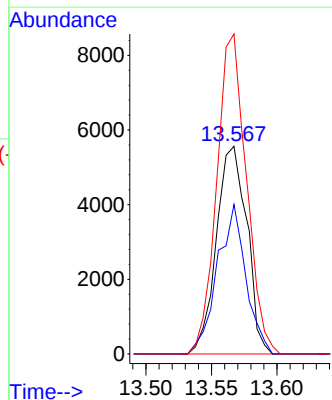
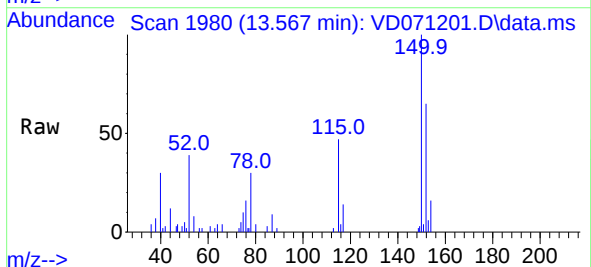


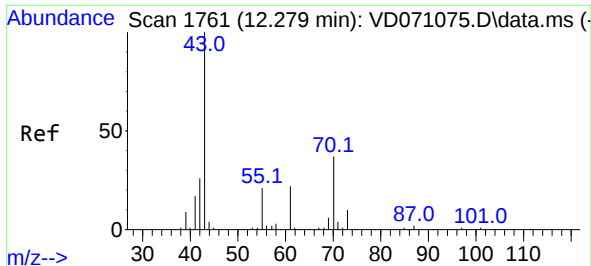
Tgt Ion:117 Resp: 19776  
Ion Ratio Lower Upper  
117 100  
82 60.9 44.7 67.1  
119 40.0 26.2 39.4#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

Tgt Ion:152 Resp: 8991  
Ion Ratio Lower Upper  
152 100  
115 67.4 29.8 89.3  
150 150.0 0.0 349.2

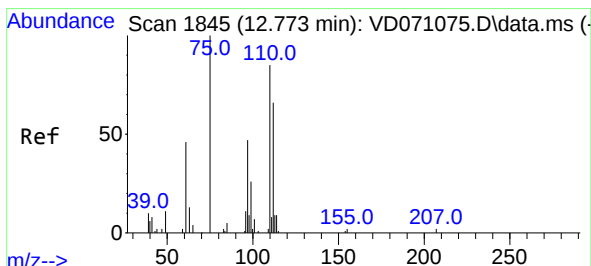
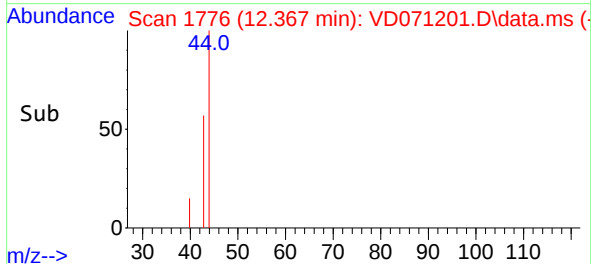
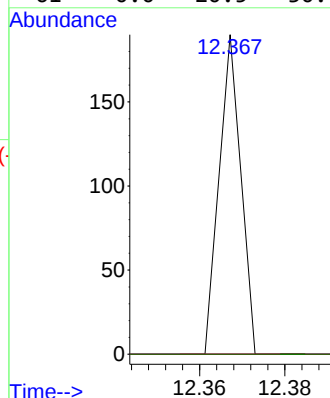
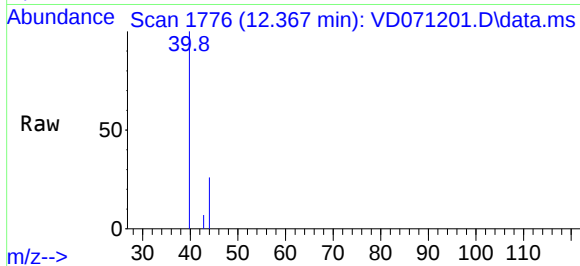




#74  
N-amy1 acetate  
Concen: 6.034 ug/l  
RT: 12.367 min Scan# 11  
Delta R.T. 0.088 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

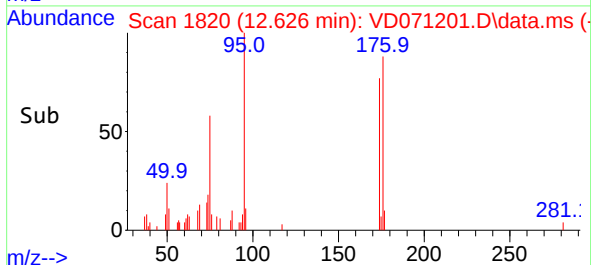
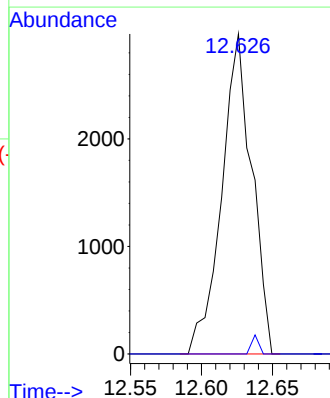
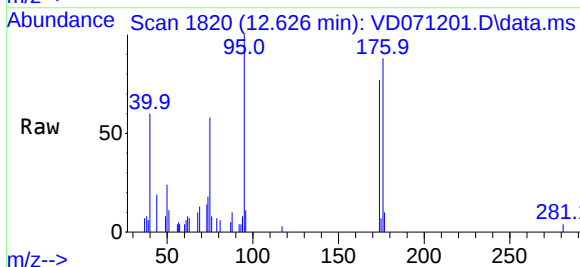
Instrument :  
MSVOA\_D  
ClientSampleId :

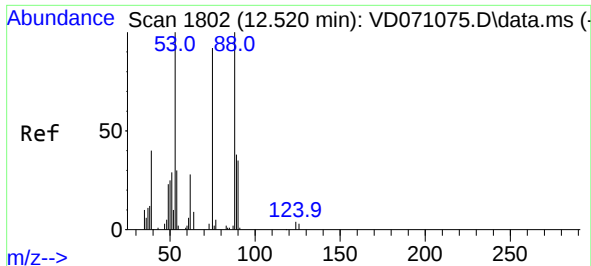
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 67    |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 36.6 55.0#  |
| 55 0.0      | 22.5 33.7#  |
| 61 0.0      | 20.5 30.7#  |



#76  
1,2,3-Trichloropropane  
Concen: 51.329 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD071201.D  
Acq: 08 Dec 2021 13:12

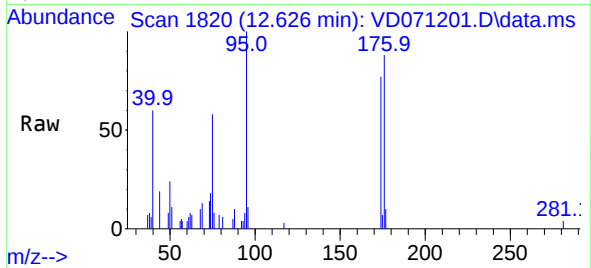
|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion: 75 | Resp: | 4397  |        |
| Ion         | Ratio | Lower | Upper  |
| 75          | 100   |       |        |
| 77          | 1.4   | 158.4 | 475.3# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 111.966 ug/l  
 RT: 12.626 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD071201.D  
 Acq: 08 Dec 2021 13:12

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 4397  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 62.6 94.0#  
 89 0.0 34.5 51.7#

