

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122121\  
 Data File : VD071411.D  
 Acq On : 21 Dec 2021 15:29  
 Operator : VA/SY  
 Sample : M5184-01  
 Misc : 5.57G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 21 19:08:17 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

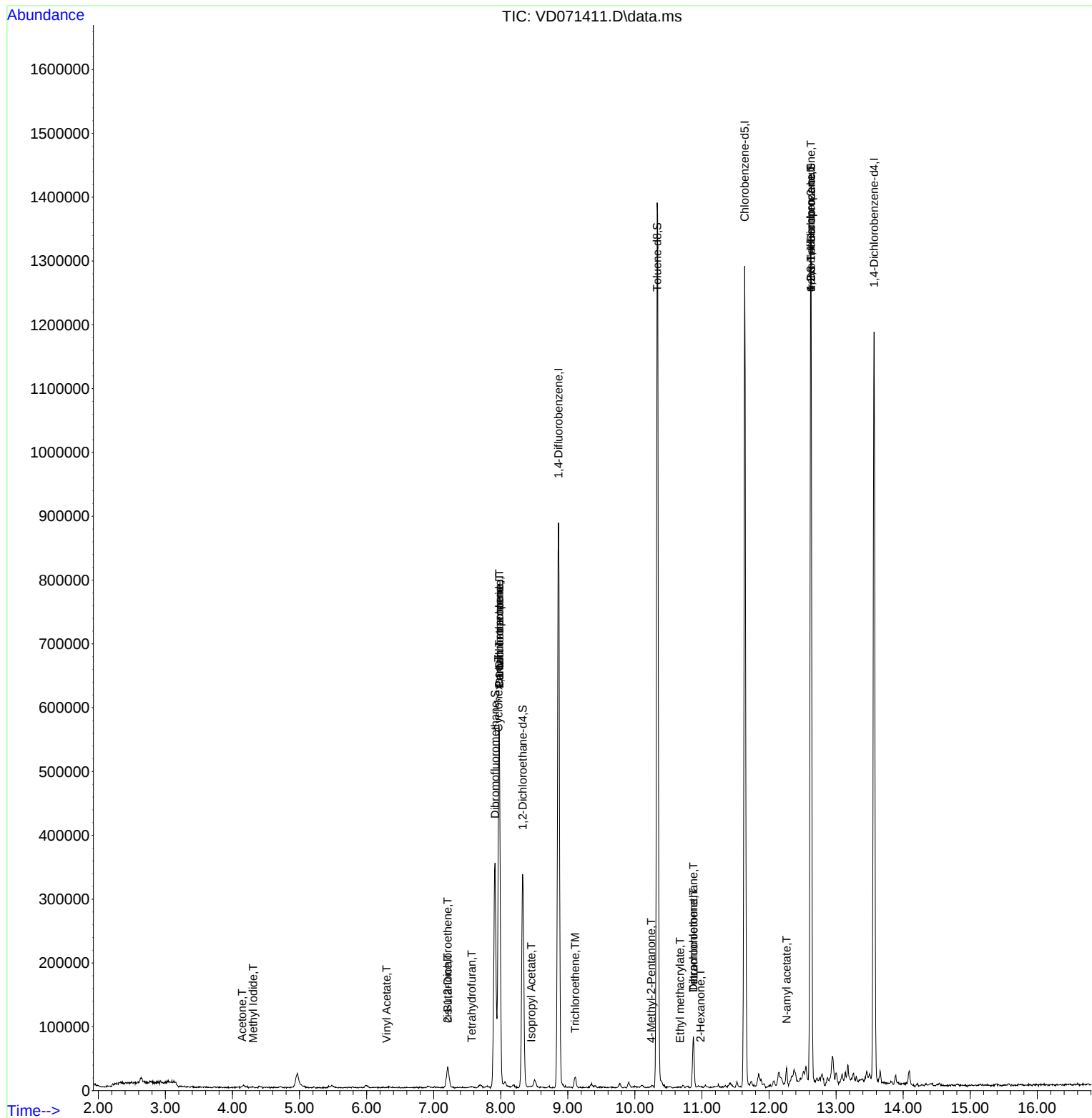
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 395817   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 723385   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 654523   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 290728   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 262747   | 56.572    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 113.140% |
| 35) Dibromofluoromethane      | 7.914  | 113   | 238157   | 51.701    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 103.400% |
| 50) Toluene-d8                | 10.332 | 98    | 921651   | 52.576    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 105.160% |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 312021   | 51.349    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 102.700% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 10) Methyl Iodide             | 4.309  | 142   | 432      | 4.645     | ug/l # | 63       |
| 11) Tert butyl alcohol        | 5.226  | 59    | 174      | Below Cal | #      | 71       |
| 16) Acetone                   | 4.144  | 43    | 6279     | 35.260    | ug/l # | 68       |
| 20) Methylene Chloride        | 4.968  | 84    | 14332    | Below Cal | #      | 80       |
| 23) Vinyl Acetate             | 6.297  | 43    | 241      | 27.247    | ug/l # | 72       |
| 25) 2-Butanone                | 7.209  | 43    | 533      | 28.691    | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene    | 7.209  | 96    | 18643    | 3.984     | ug/l   | 88       |
| 29) Tetrahydrofuran           | 7.567  | 42    | 962      | 1.304     | ug/l # | 62       |
| 31) Cyclohexane               | 7.967  | 56    | 12056    | 1.526     | ug/l # | 43       |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 36262    | 5.363     | ug/l # | 43       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 43332    | 6.502     | ug/l # | 14       |
| 41) Methacrylonitrile         | 7.544  | 41    | 175      | Below Cal | #      | 1        |
| 43) Isopropyl Acetate         | 8.456  | 43    | 882      | 5.346     | ug/l # | 47       |
| 44) Trichloroethene           | 9.108  | 130   | 5641     | 1.152     | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.244 | 43    | 961      | 30.908    | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.673 | 69    | 173      | 6.003     | ug/l # | 1        |
| 59) 2-Hexanone                | 10.979 | 43    | 946      | 34.902    | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.873 | 129   | 13520    | 3.309     | ug/l # | 11       |
| 64) Tetrachloroethene         | 10.873 | 164   | 15994    | 3.849     | ug/l   | 97       |
| 74) N-amyl acetate            | 12.261 | 43    | 5243     | 6.507     | ug/l # | 66       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 178543   | 64.458    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 178543   | 139.127   | ug/l # | 18       |
| -----                         |        |       |          |           |        |          |

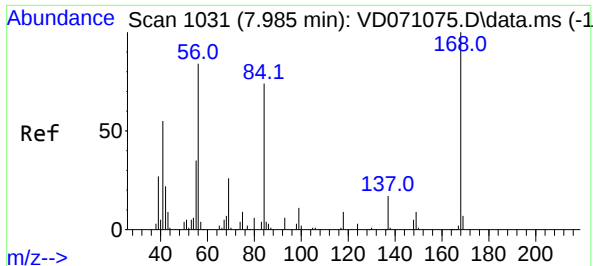
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M5184-01  
Misc : 5.57G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 21 19:08:17 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

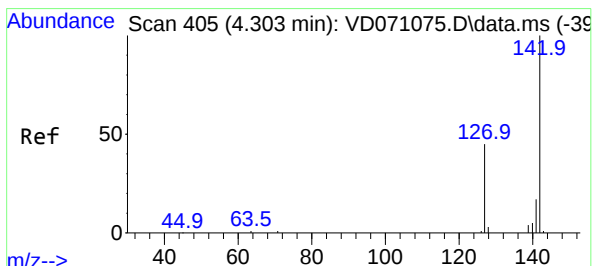
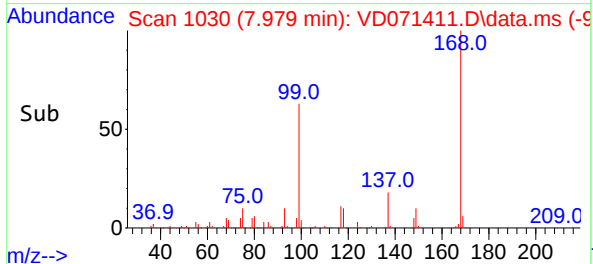
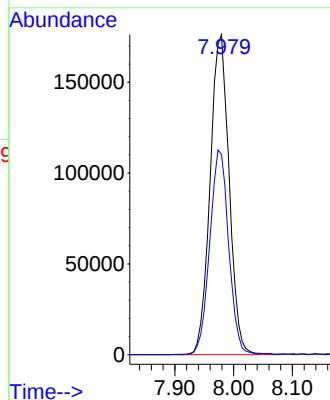
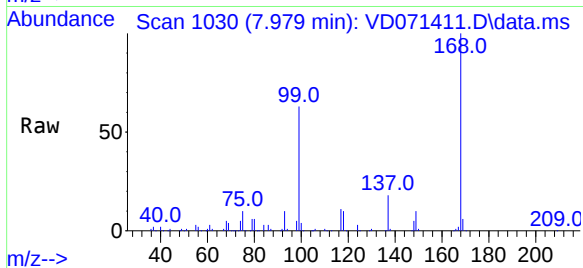




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

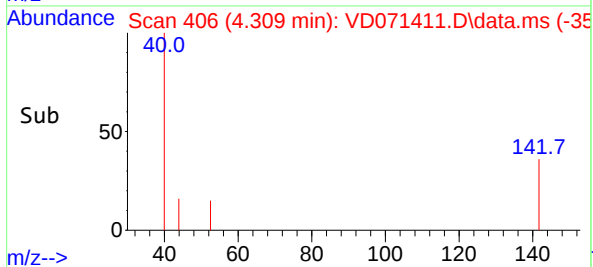
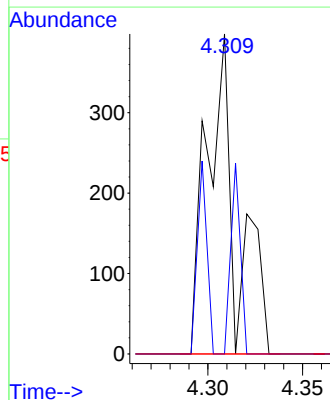
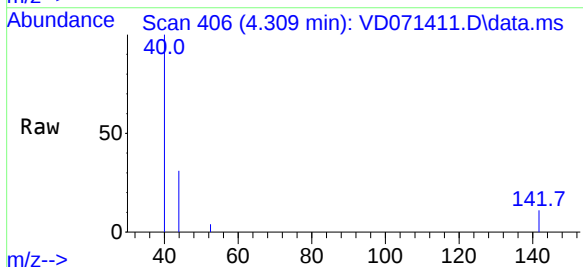
Instrument :  
MSVOA\_D  
ClientSampleId :

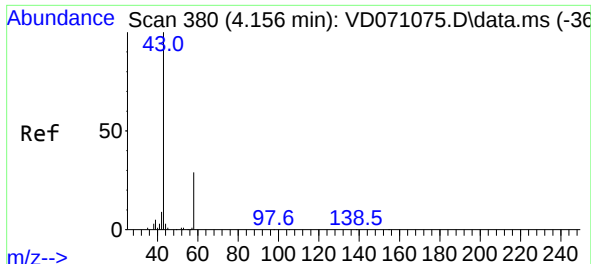
Tgt Ion:168 Resp: 395817  
Ion Ratio Lower Upper  
168 100  
99 62.5 46.6 69.8



#10  
Methyl Iodide  
Concen: 4.645 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

Tgt Ion:142 Resp: 432  
Ion Ratio Lower Upper  
142 100  
127 19.4 35.0 52.4#  
141 0.0 12.0 18.0#

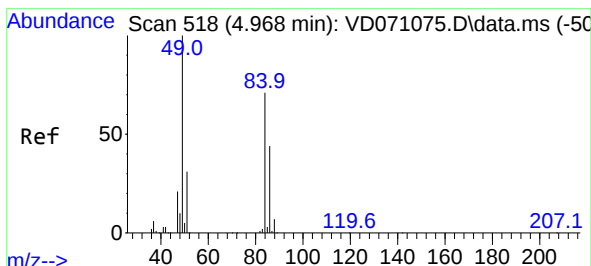
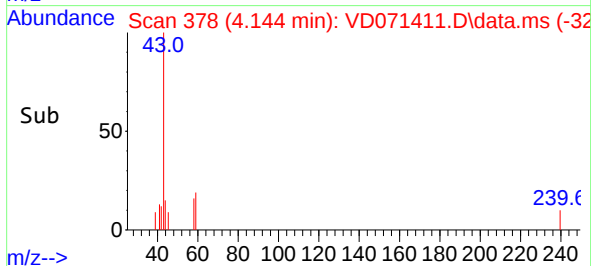
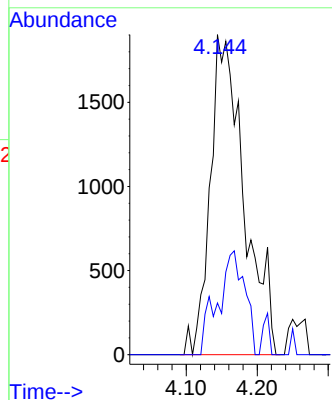
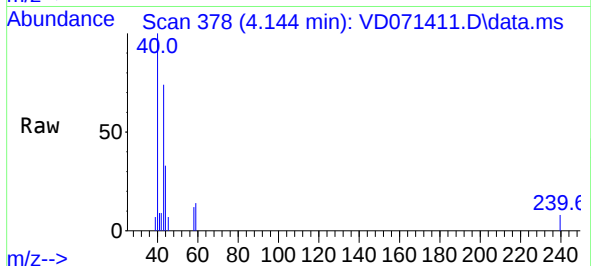




#16  
Acetone  
Concen: 35.260 ug/l  
RT: 4.144 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

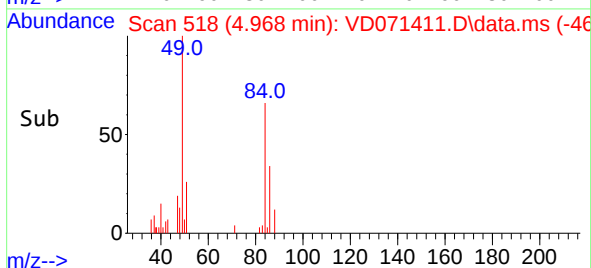
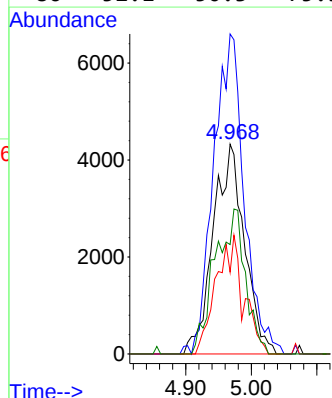
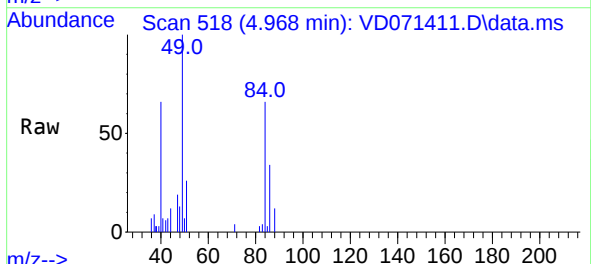
Instrument :  
MSVOA\_D  
ClientSampleId :

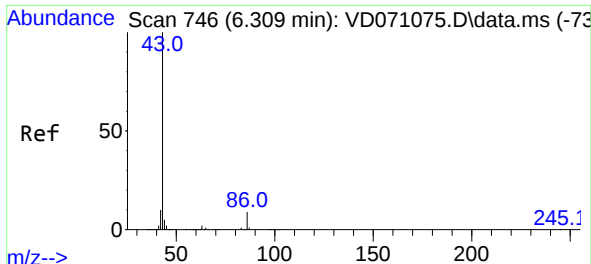
Tgt Ion: 43 Resp: 6279  
Ion Ratio Lower Upper  
43 100  
58 16.1 27.8 41.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.968 min Scan# 518  
Delta R.T. -0.000 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

Tgt Ion: 84 Resp: 14332  
Ion Ratio Lower Upper  
84 100  
49 152.5 95.8 143.6#  
51 39.0 30.9 46.3  
86 52.1 50.3 75.5

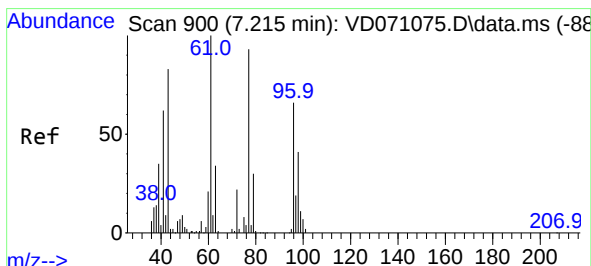
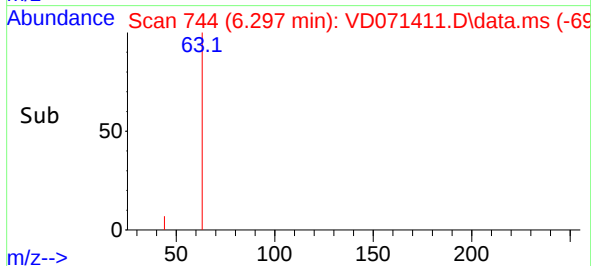
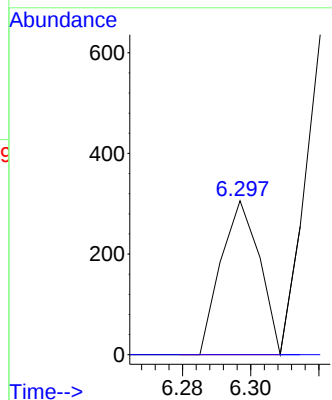
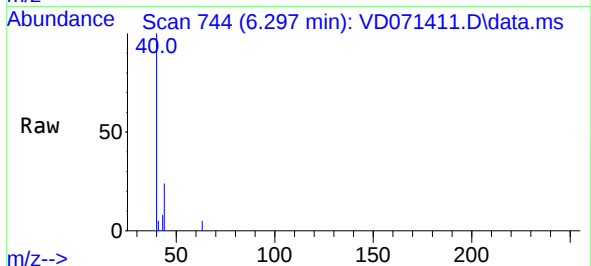




#23  
 Vinyl Acetate  
 Concen: 27.247 ug/l  
 RT: 6.297 min Scan# 746  
 Delta R.T. -0.012 min  
 Lab File: VD071411.D  
 Acq: 21 Dec 2021 15:29

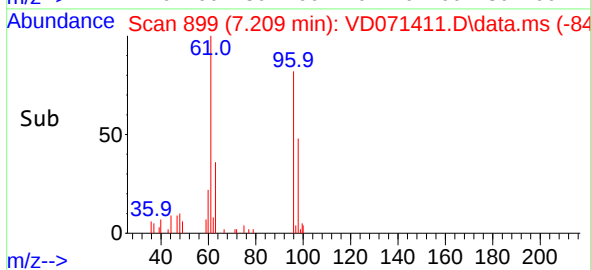
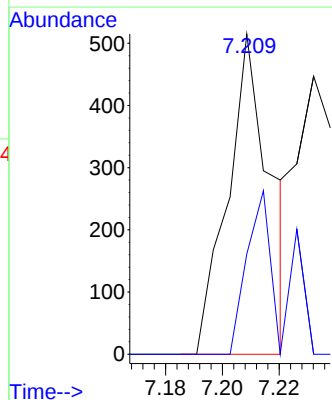
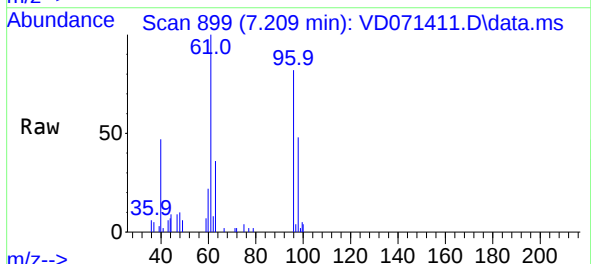
Instrument :  
 MSVOA\_D  
 ClientSampleId :

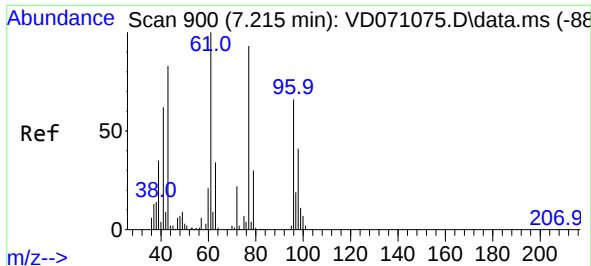
Tgt Ion: 43 Resp: 241  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.2 12.4#



#25  
 2-Butanone  
 Concen: 28.691 ug/l  
 RT: 7.209 min Scan# 899  
 Delta R.T. -0.006 min  
 Lab File: VD071411.D  
 Acq: 21 Dec 2021 15:29

Tgt Ion: 43 Resp: 533  
 Ion Ratio Lower Upper  
 43 100  
 72 31.3 23.8 35.6





#27

cis-1,2-Dichloroethene

Concen: 3.984 ug/l

RT: 7.209 min Scan# 899

Delta R.T. -0.006 min

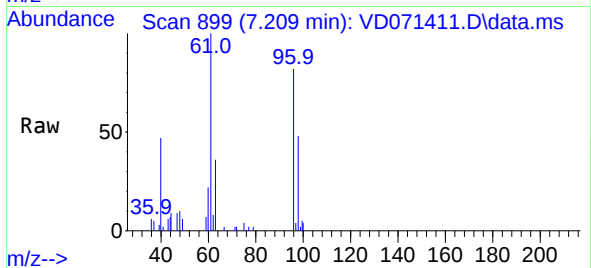
Lab File: VD071411.D

Acq: 21 Dec 2021 15:29

Instrument :

MSVOA\_D

ClientSampleId :



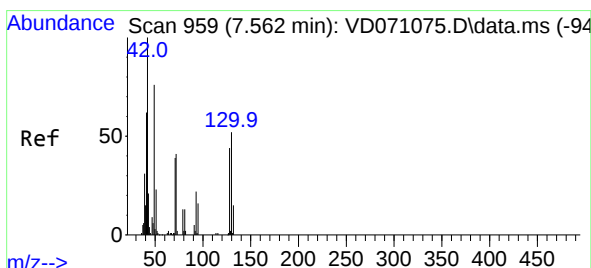
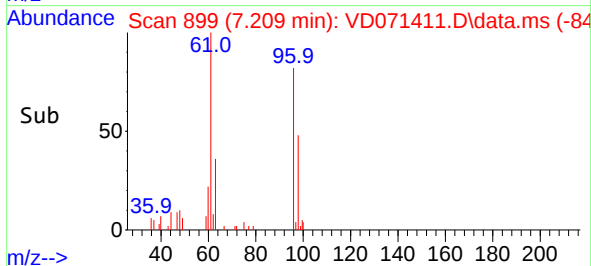
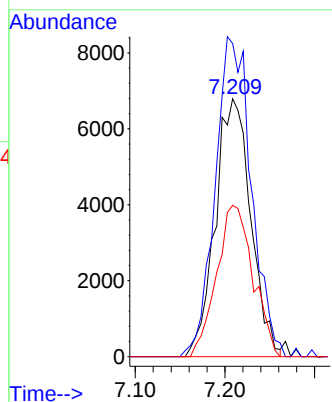
Tgt Ion: 96 Resp: 18643

Ion Ratio Lower Upper

96 100

61 126.6 0.0 288.6

98 60.2 0.0 129.2



#29

Tetrahydrofuran

Concen: 1.304 ug/l

RT: 7.567 min Scan# 960

Delta R.T. 0.005 min

Lab File: VD071411.D

Acq: 21 Dec 2021 15:29

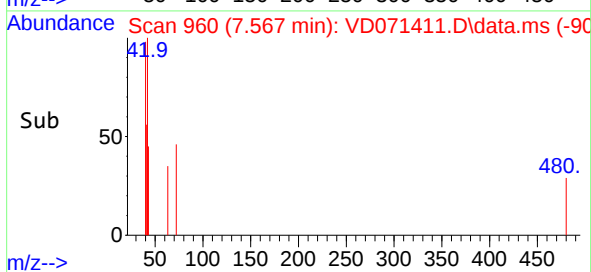
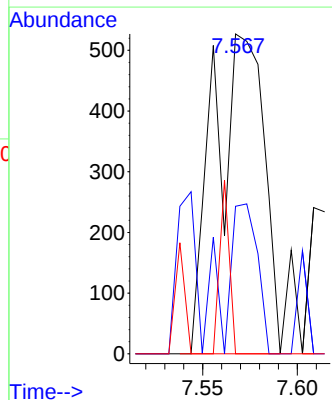
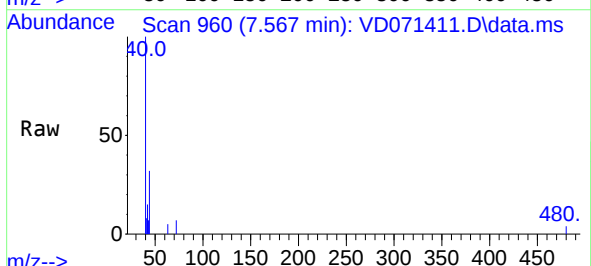
Tgt Ion: 42 Resp: 962

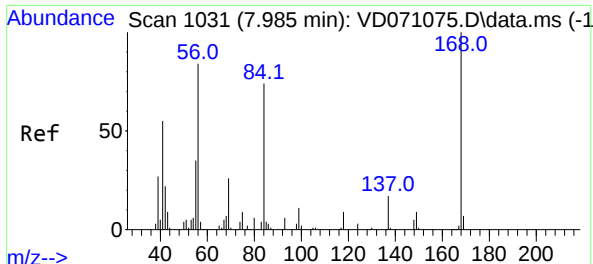
Ion Ratio Lower Upper

42 100

72 24.0 33.7 50.5#

71 10.5 32.7 49.1#





#31

Cyclohexane

Concen: 1.526 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.018 min

Lab File: VD071411.D

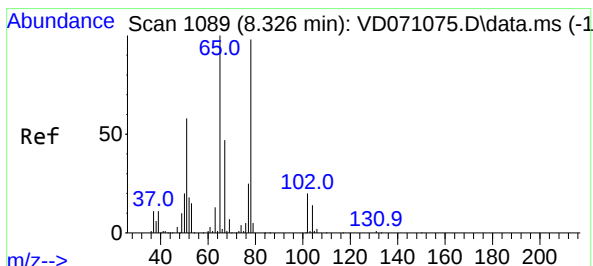
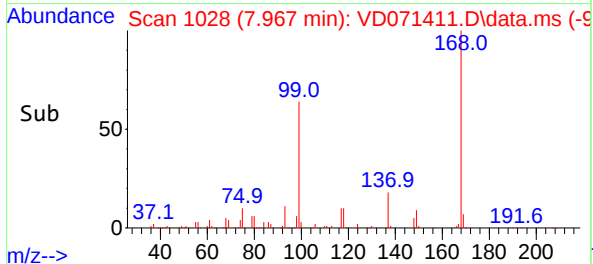
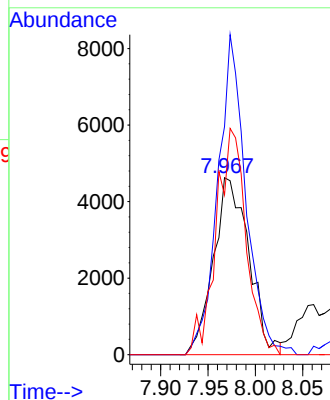
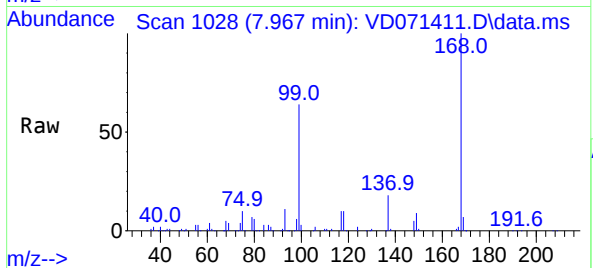
Acq: 21 Dec 2021 15:29

Instrument :

MSVOA\_D

ClientSampleId :

|             |                  |
|-------------|------------------|
| Tgt Ion: 56 | Resp: 12056      |
| Ion Ratio   | Lower Upper      |
| 56          | 100              |
| 69          | 128.8 25.9 38.9# |
| 84          | 90.2 64.3 96.5   |



#33

1,2-Dichloroethane-d4

Concen: 56.572 ug/l

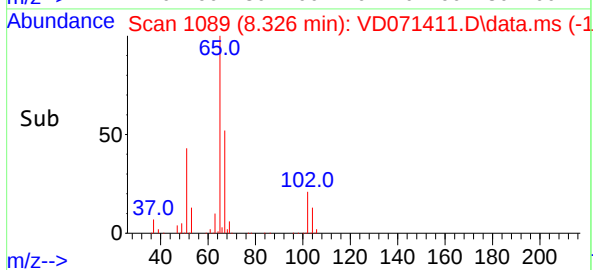
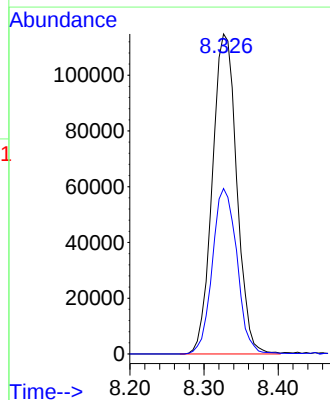
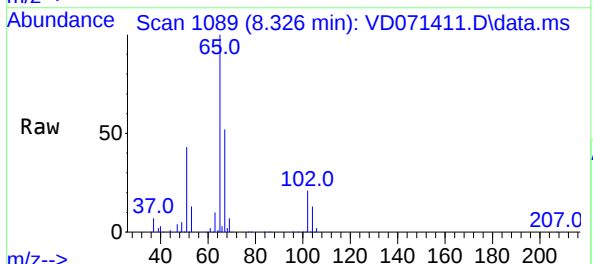
RT: 8.326 min Scan# 1089

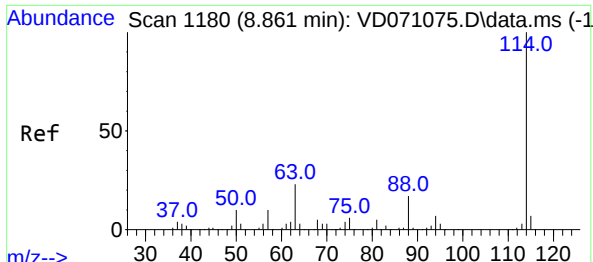
Delta R.T. 0.000 min

Lab File: VD071411.D

Acq: 21 Dec 2021 15:29

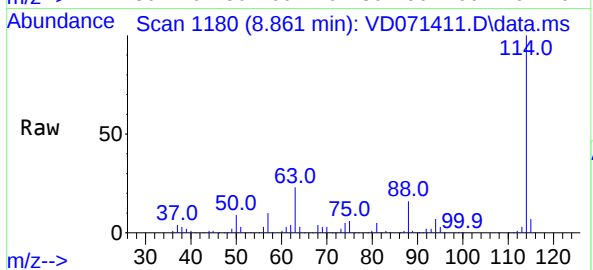
|             |                |
|-------------|----------------|
| Tgt Ion: 65 | Resp: 262747   |
| Ion Ratio   | Lower Upper    |
| 65          | 100            |
| 67          | 52.1 0.0 112.2 |



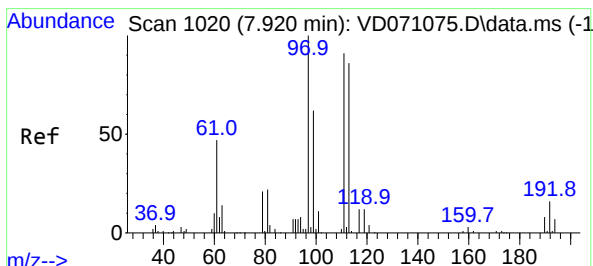
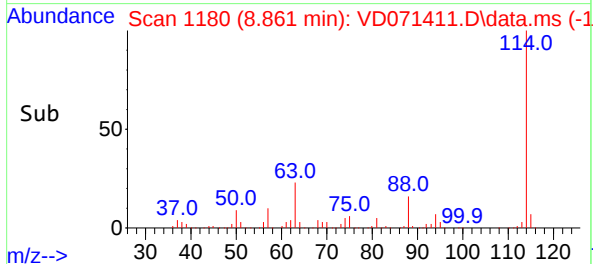
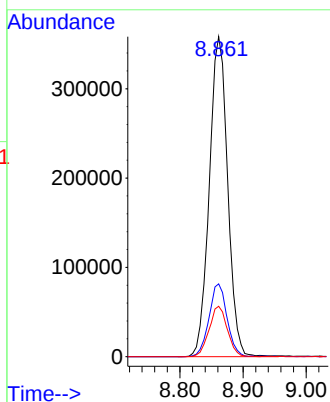


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

Instrument :  
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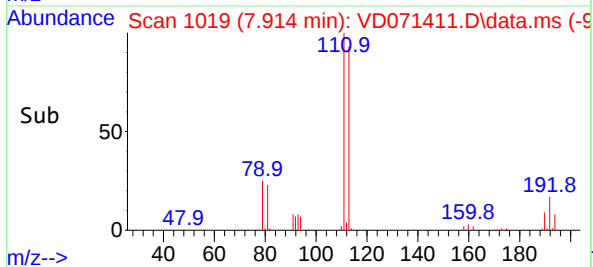
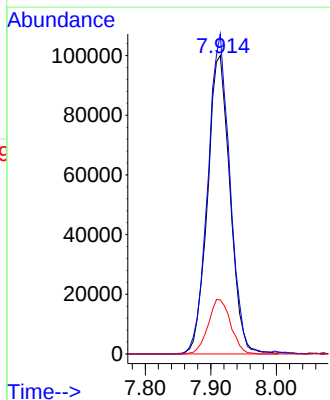
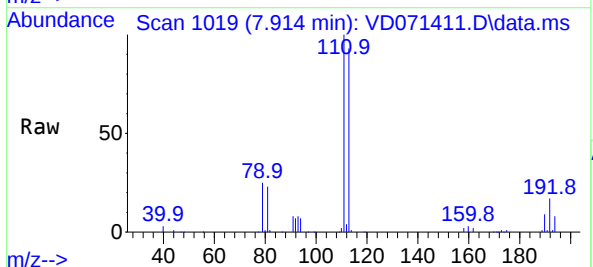


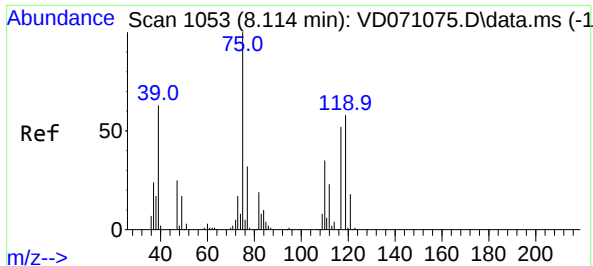
Tgt Ion:114 Resp: 723385  
Ion Ratio Lower Upper  
114 100  
63 22.8 0.0 41.8  
88 15.7 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 51.701 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD071411.D  
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Tgt Ion:113 Resp: 238157  
Ion Ratio Lower Upper  
113 100  
111 105.5 82.0 123.0  
192 18.2 15.2 22.8





#36

1,1-Dichloropropene

Concen: 5.363 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.135 min

Lab File: VD071411.D

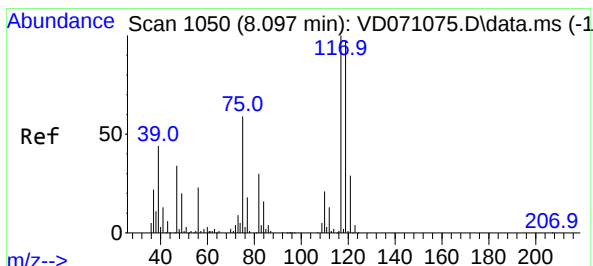
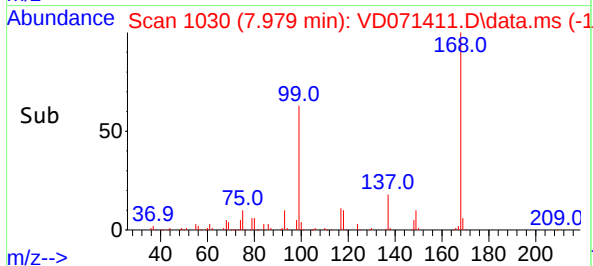
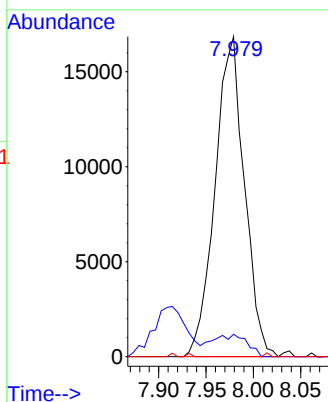
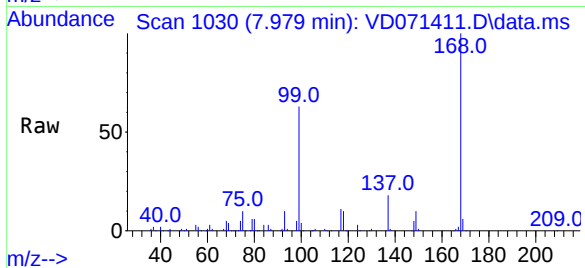
Acq: 21 Dec 2021 15:29

Instrument :

MSVOA\_D

ClientSampleId :

|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 36262    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 1.6 17.8 53.4# |
| 77          | 0.0 24.8 37.2# |



#38

Carbon Tetrachloride

Concen: 6.502 ug/l

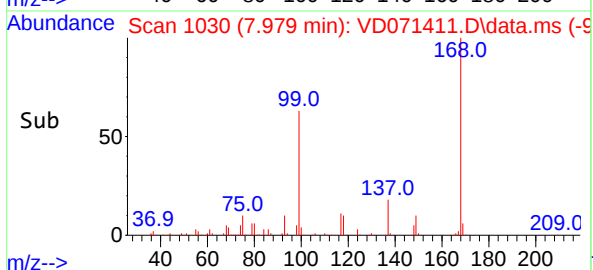
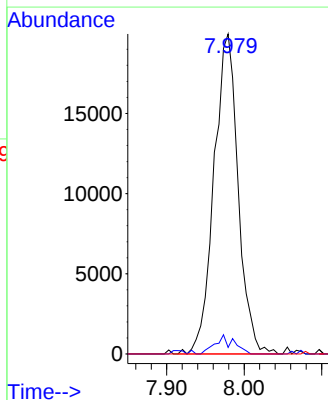
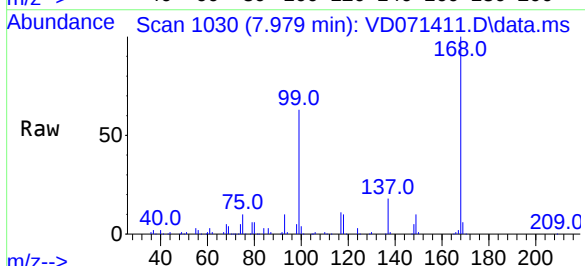
RT: 7.979 min Scan# 1030

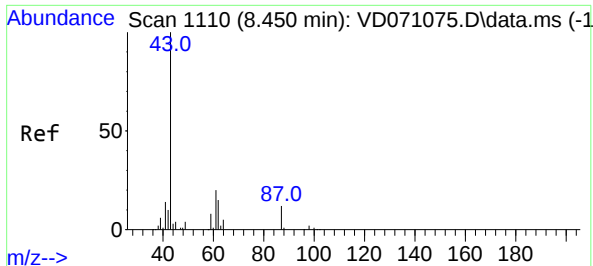
Delta R.T. -0.118 min

Lab File: VD071411.D

Acq: 21 Dec 2021 15:29

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 43332     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 2.0 75.8 113.6# |
| 121          | 0.0 23.6 35.4#  |





#43

Isopropyl Acetate

Concen: 5.346 ug/l

RT: 8.456 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VD071411.D

Acq: 21 Dec 2021 15:29

Instrument :

MSVOA\_D

ClientSampleId :

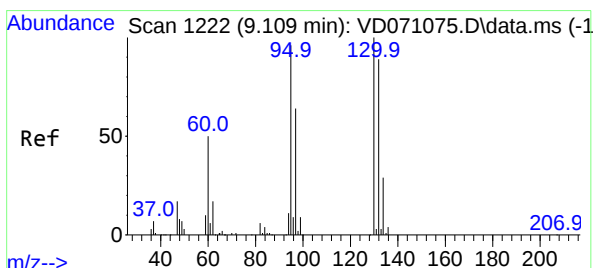
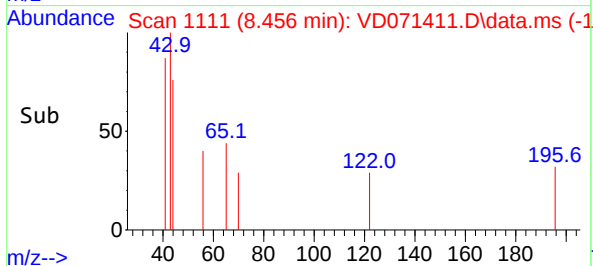
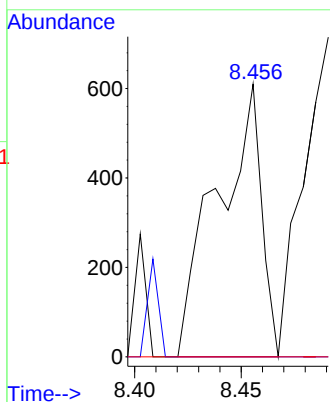
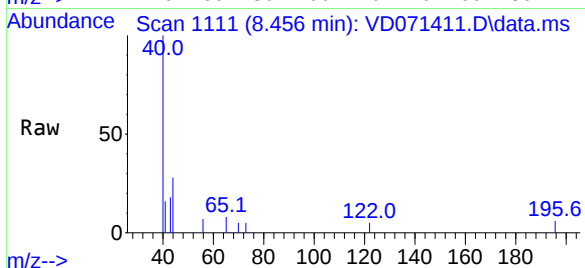
Tgt Ion: 43 Resp: 882

Ion Ratio Lower Upper

43 100

61 0.0 28.2 42.4#

87 0.0 10.7 16.1#



#44

Trichloroethene

Concen: 1.152 ug/l

RT: 9.108 min Scan# 1222

Delta R.T. -0.001 min

Lab File: VD071411.D

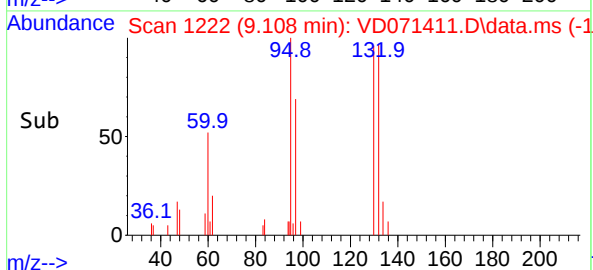
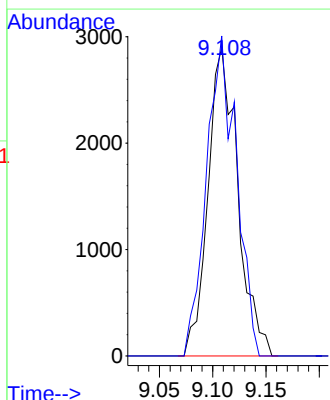
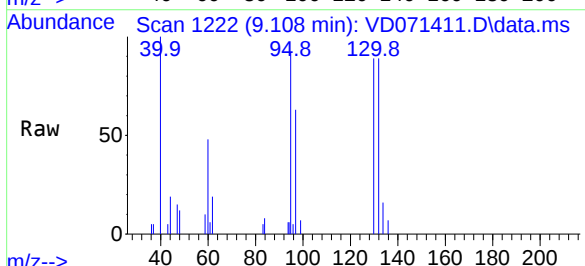
Acq: 21 Dec 2021 15:29

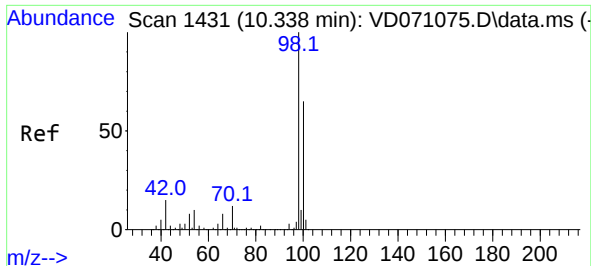
Tgt Ion:130 Resp: 5641

Ion Ratio Lower Upper

130 100

95 103.8 0.0 193.2

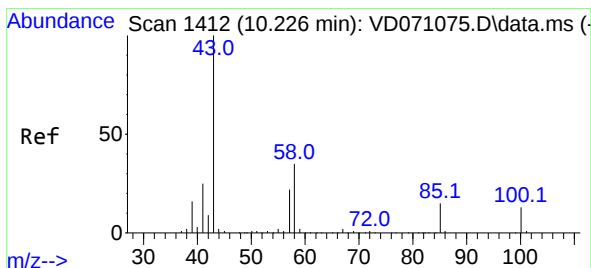
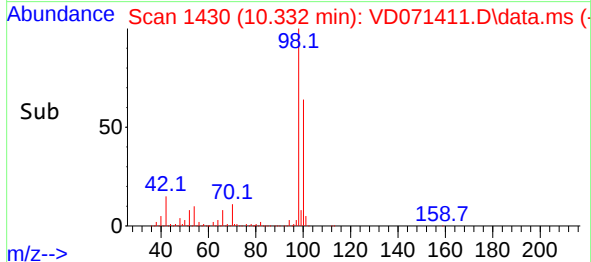
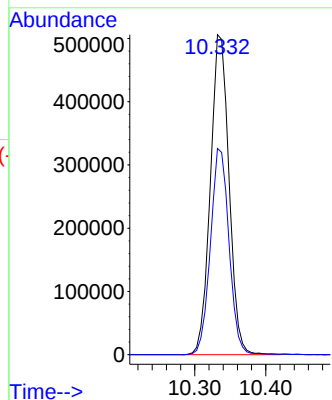
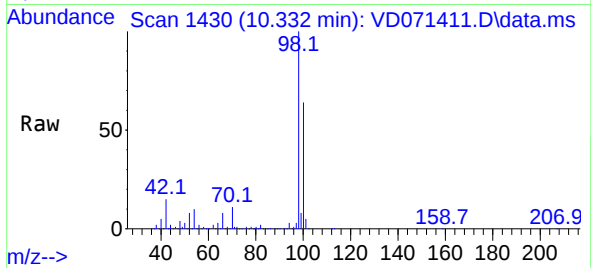




#50  
Toluene-d8  
Concen: 52.576 ug/l  
RT: 10.332 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

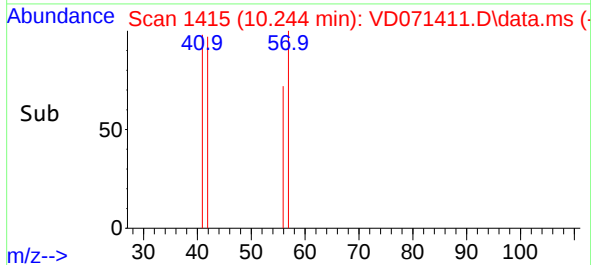
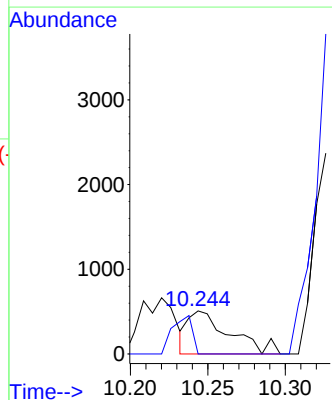
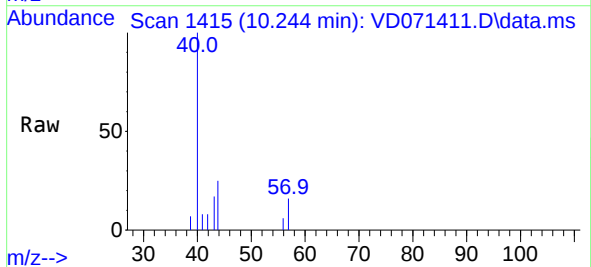
Instrument :  
MSVOA\_D  
ClientSampleId :

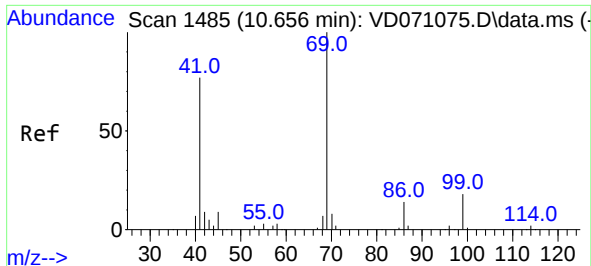
Tgt Ion: 98 Resp: 921651  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 30.908 ug/l  
RT: 10.244 min Scan# 1415  
Delta R.T. 0.018 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

Tgt Ion: 43 Resp: 961  
Ion Ratio Lower Upper  
43 100  
58 41.7 33.1 49.7

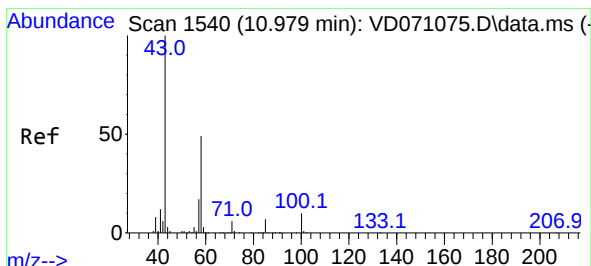
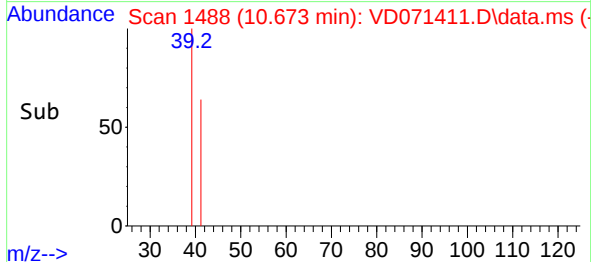
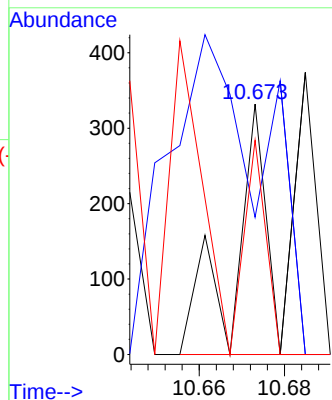
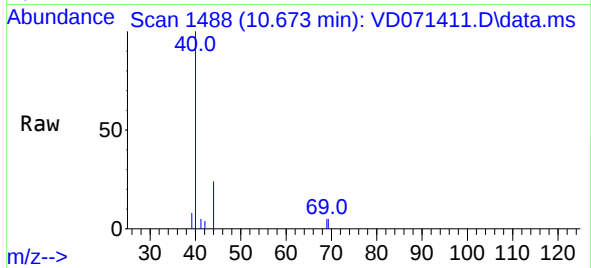




#56  
Ethyl methacrylate  
Concen: 6.003 ug/l  
RT: 10.673 min Scan# 1488  
Delta R.T. 0.017 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

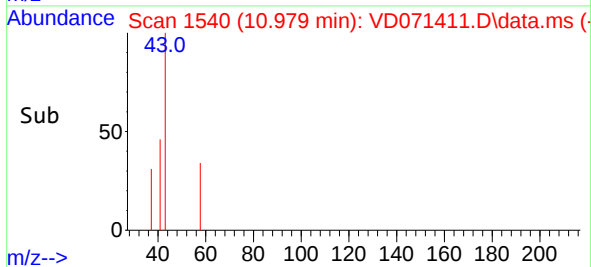
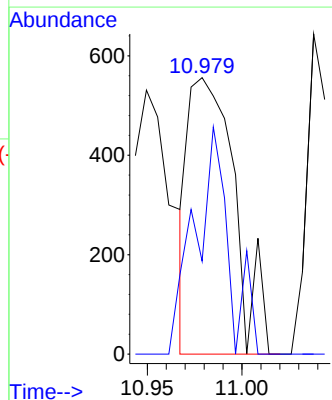
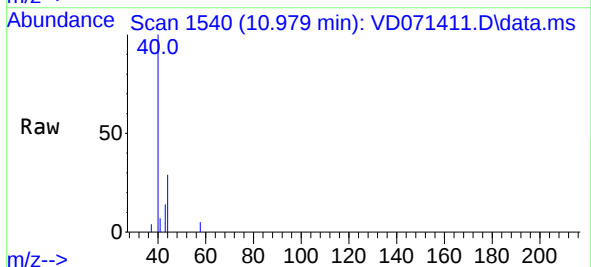
Instrument :  
MSVOA\_D  
ClientSampleId :

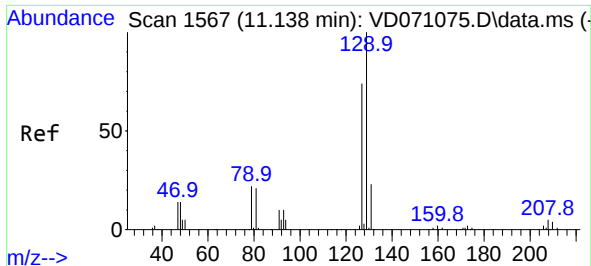
Tgt Ion: 69 Resp: 173  
Ion Ratio Lower Upper  
69 100  
41 376.3 50.2 75.2#  
39 127.2 19.8 29.8#



#59  
2-Hexanone  
Concen: 34.902 ug/l  
RT: 10.979 min Scan# 1540  
Delta R.T. -0.000 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

Tgt Ion: 43 Resp: 946  
Ion Ratio Lower Upper  
43 100  
58 60.3 28.7 86.1

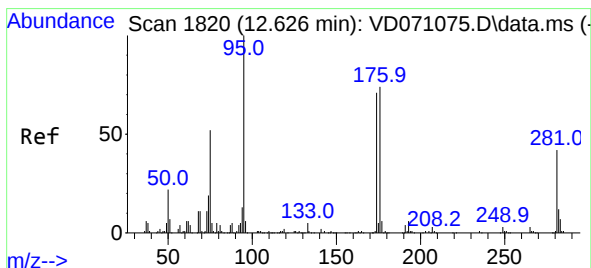
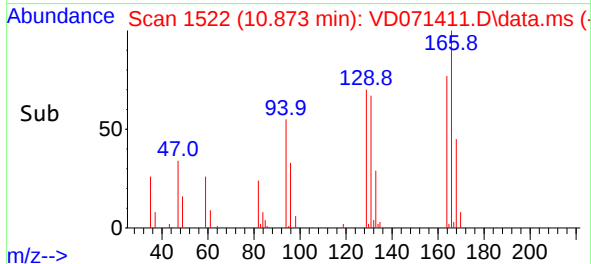
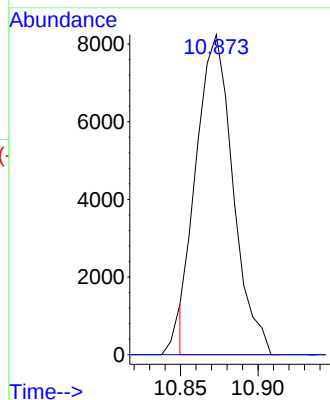
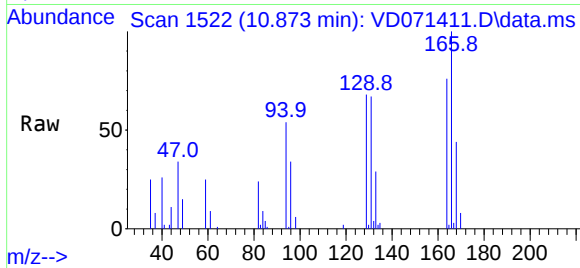




#60  
Dibromochloromethane  
Concen: 3.309 ug/l  
RT: 10.873 min Scan# 11  
Delta R.T. -0.265 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

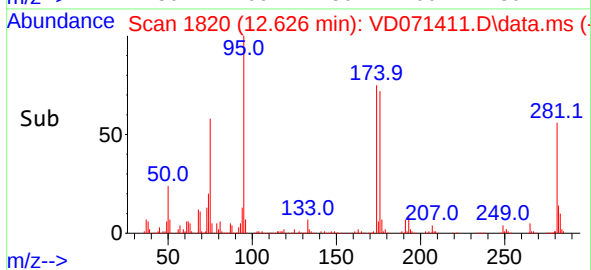
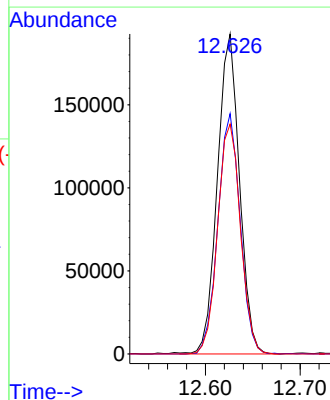
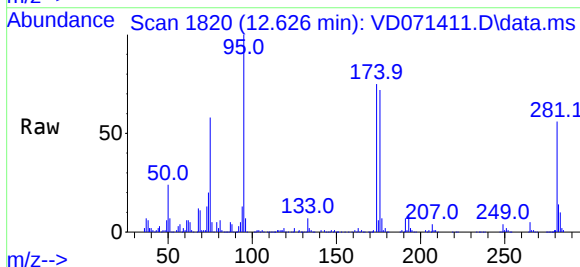
Instrument :  
MSVOA\_D  
ClientSampleId :

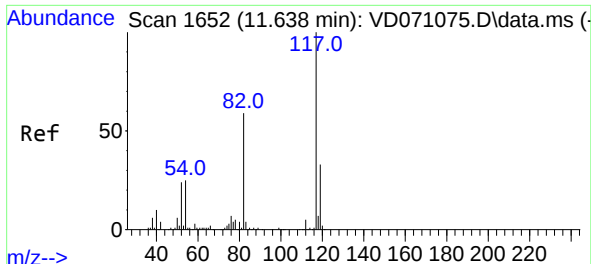
Tgt Ion:129 Resp: 13520  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.9 116.6#



#62  
4-Bromofluorobenzene  
Concen: 51.349 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

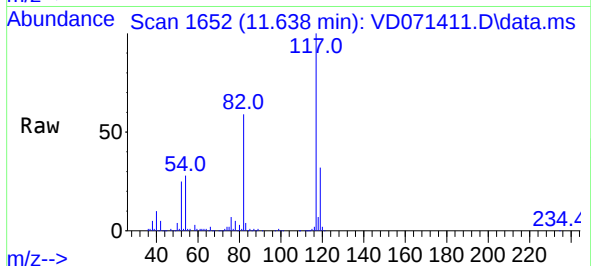
Tgt Ion: 95 Resp: 312021  
Ion Ratio Lower Upper  
95 100  
174 75.7 0.0 159.4  
176 74.3 0.0 154.0



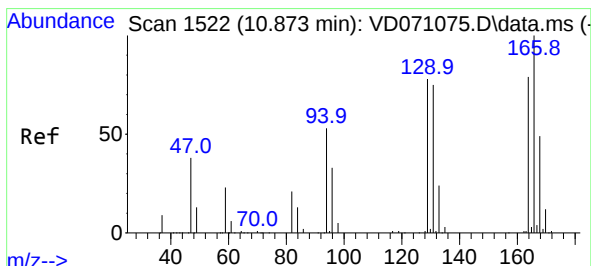
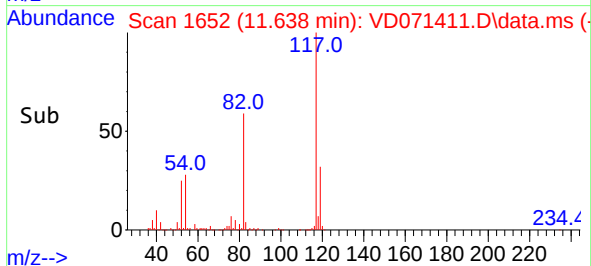
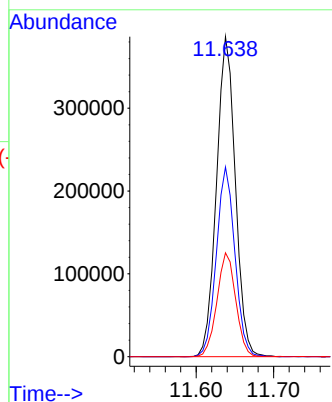


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

Instrument :  
MSVOA\_D  
ClientSampleId :

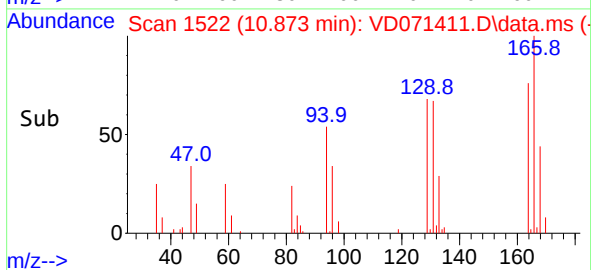
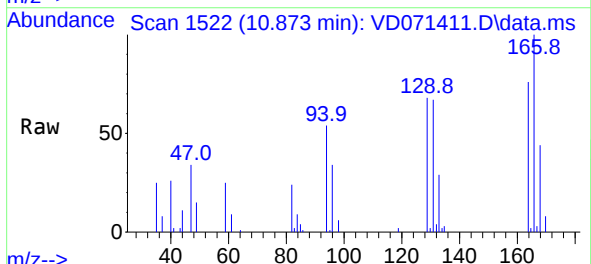
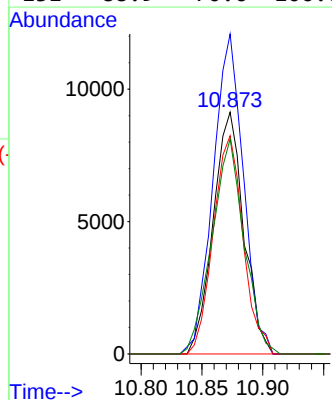


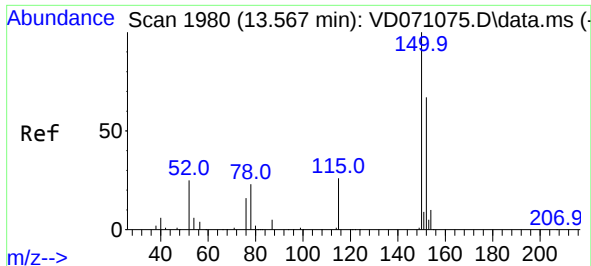
Tgt Ion:117 Resp: 654523  
Ion Ratio Lower Upper  
117 100  
82 59.3 44.7 67.1  
119 32.5 26.2 39.4



#64  
Tetrachloroethene  
Concen: 3.849 ug/l  
RT: 10.873 min Scan# 1522  
Delta R.T. 0.000 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

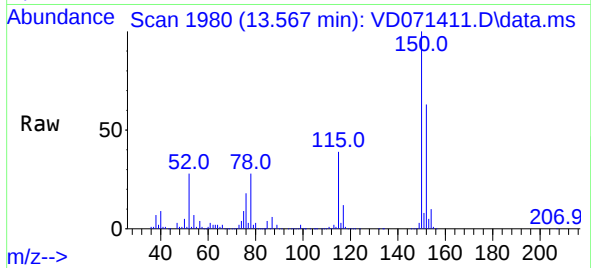
Tgt Ion:164 Resp: 15994  
Ion Ratio Lower Upper  
164 100  
166 132.4 102.6 153.8  
129 90.3 75.4 113.0  
131 88.9 70.6 106.0



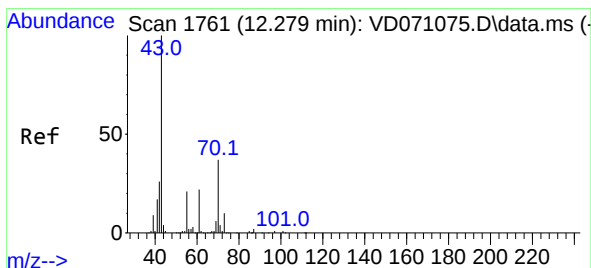
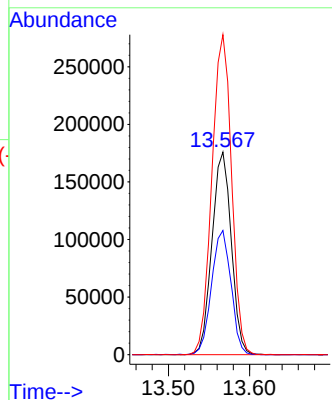
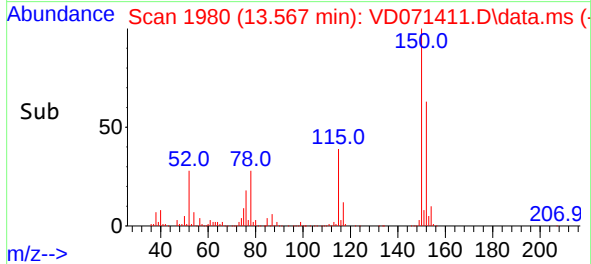


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

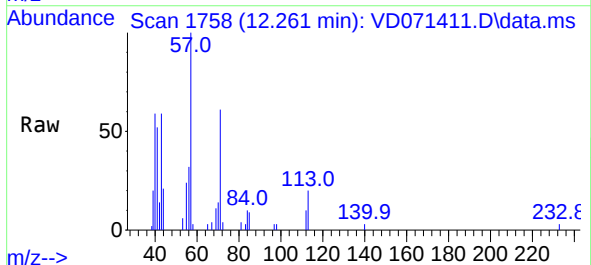
Instrument :  
MSVOA\_D  
ClientSampleId :



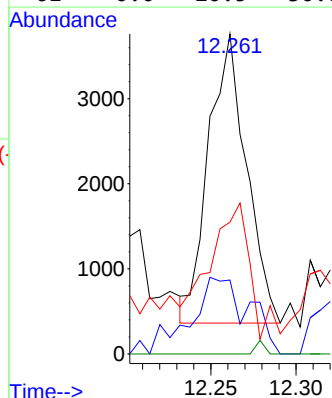
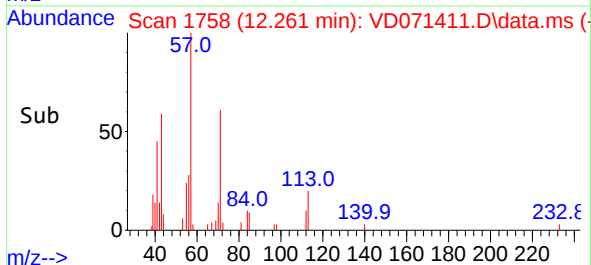
Tgt Ion:152 Resp: 290728  
Ion Ratio Lower Upper  
152 100  
115 61.8 29.8 89.3  
150 160.7 0.0 349.2

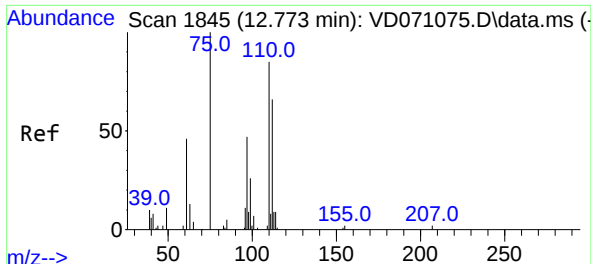


#74  
N-ethyl acetate  
Concen: 6.507 ug/l  
RT: 12.261 min Scan# 1758  
Delta R.T. -0.018 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29



Tgt Ion: 43 Resp: 5243  
Ion Ratio Lower Upper  
43 100  
70 41.7 36.6 55.0  
55 62.3 22.5 33.7#  
61 0.0 20.5 30.7#

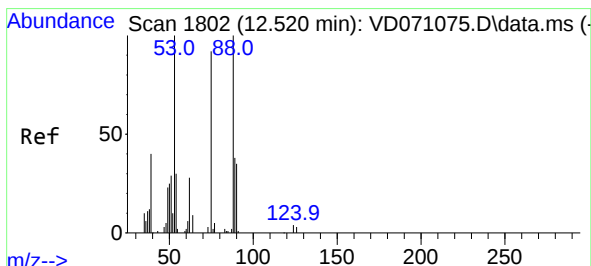
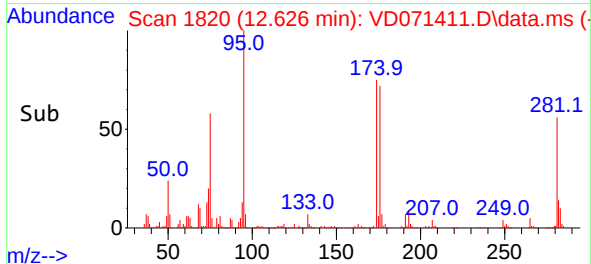
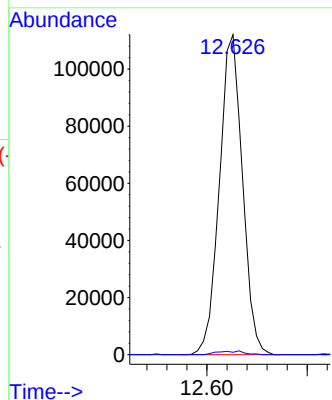
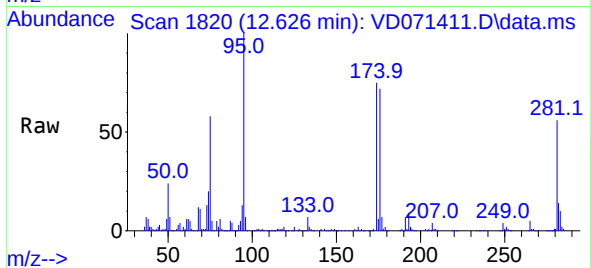




#76  
1,2,3-Trichloropropane  
Concen: 64.458 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 178543  
Ion Ratio Lower Upper  
75 100  
77 1.3 158.4 475.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 139.127 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD071411.D  
Acq: 21 Dec 2021 15:29

Tgt Ion: 75 Resp: 178543  
Ion Ratio Lower Upper  
75 100  
53 0.1 62.6 94.0#  
89 0.0 34.5 51.7#

