

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112221\  
 Data File : VU045928.D  
 Acq On : 22 Nov 2021 20:32  
 Operator : SY/MD  
 Sample : M4770-08  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 23 05:19:55 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

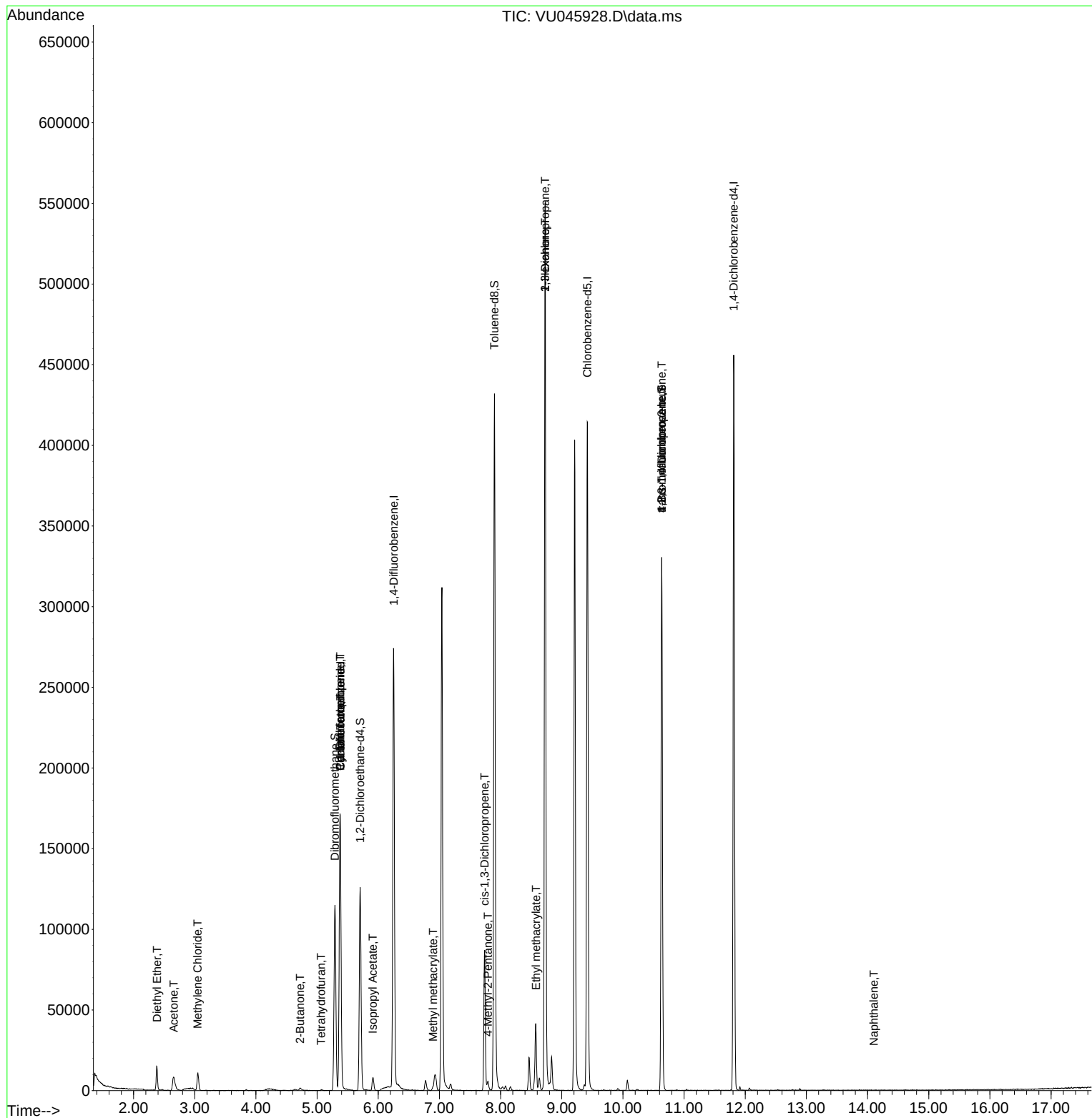
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.378  | 168   | 116736   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.253  | 114   | 215512   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 9.420  | 117   | 235706   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 115922   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65    | 92167    | 52.719   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 105.440% |          |
| 35) Dibromofluoromethane      | 5.292  | 113   | 73442    | 51.042   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 102.080% |          |
| 50) Toluene-d8                | 7.899  | 98    | 292177   | 54.609   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 109.220% |          |
| 62) 4-Bromofluorobenzene      | 10.636 | 95    | 111229   | 51.843   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 103.680% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 8) Diethyl Ether              | 2.382  | 74    | 5373     | 6.085    | ug/l       | 99       |
| 16) Acetone                   | 2.655  | 43    | 16309    | 18.326   | ug/l       | 98       |
| 20) Methylene Chloride        | 3.047  | 84    | 5424     | 3.508    | ug/l       | 86       |
| 25) 2-Butanone                | 4.723  | 43    | 2957     | 2.396    | ug/l       | 95       |
| 29) Tetrahydrofuran           | 5.067  | 42    | 350      | 0.464    | ug/l #     | 54       |
| 31) Cyclohexane               | 5.378  | 56    | 2526     | 0.990    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 5.375  | 75    | 10293    | 4.898    | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 5.378  | 117   | 12273    | 5.793    | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 5.912  | 43    | 8711     | 2.359    | ug/l       | 98       |
| 48) Methyl methacrylate       | 6.896  | 41    | 3876     | 2.281    | ug/l #     | 13       |
| 51) 4-Methyl-2-Pentanone      | 7.793  | 43    | 3966     | 1.628    | ug/l #     | 86       |
| 54) cis-1,3-Dichloropropene   | 7.739  | 75    | 15833    | 5.993    | ug/l #     | 62       |
| 56) Ethyl methacrylate        | 8.581  | 69    | 382      | 2.552    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 8.729  | 76    | 5998     | 2.110    | ug/l #     | 42       |
| 59) 2-Hexanone                | 8.729  | 43    | 71483    | 40.248   | ug/l #     | 50       |
| 76) 1,2,3-Trichloropropane    | 10.636 | 75    | 58251    | 16.570   | ug/l #     | 43       |
| 81) trans-1,4-Dichloro-2-b... | 10.636 | 75    | 58251    | 54.026   | ug/l #     | 12       |
| 95) Naphthalene               | 14.105 | 128   | 40       | 1.033    | ug/l #     | 69       |

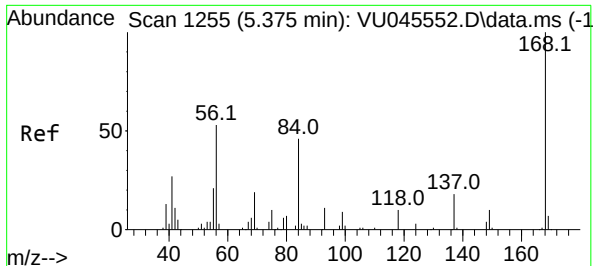
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112221\  
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MSVOA\_U  
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Quant Time: Nov 23 05:19:55 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 05 13:35:16 2021  
Response via : Initial Calibration

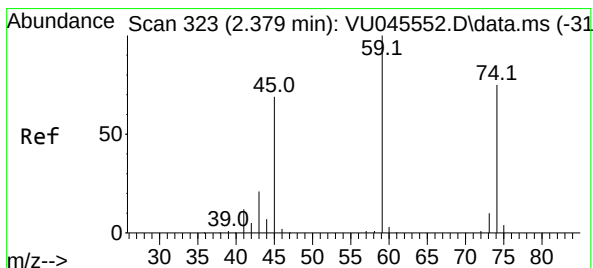
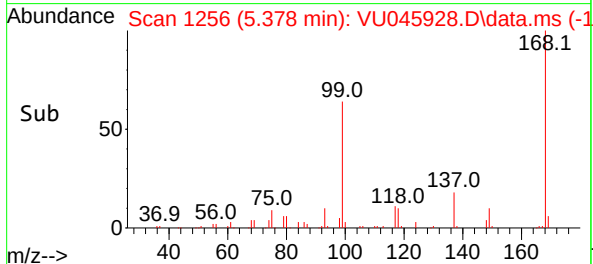
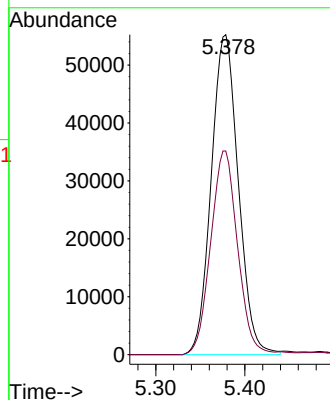
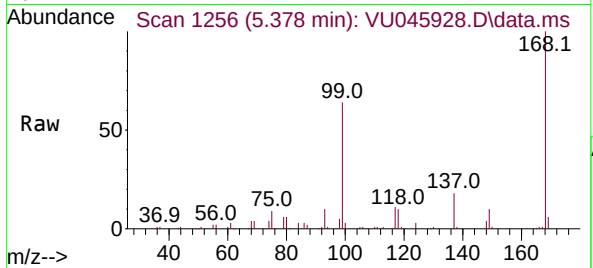




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.378 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

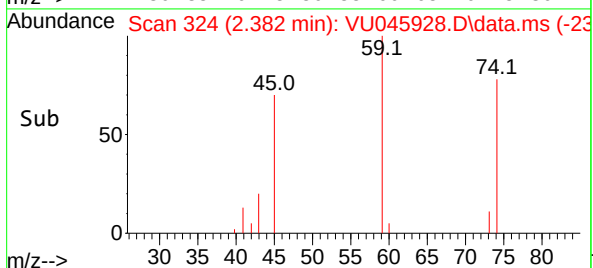
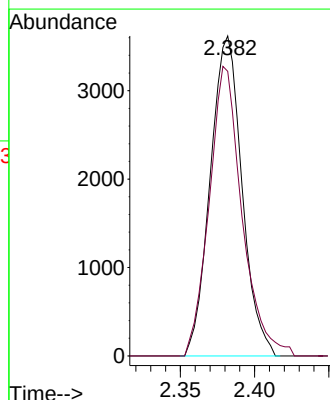
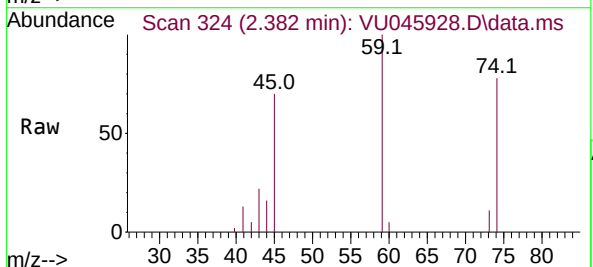
Instrument :  
MSVOA\_U  
ClientSampleId :

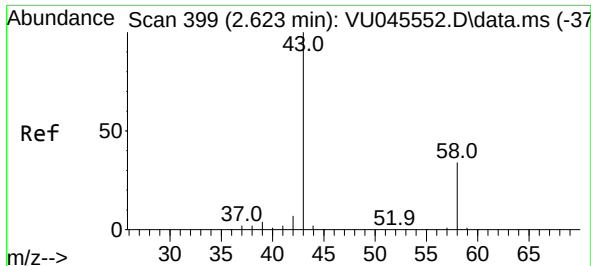
Tgt Ion:168 Resp: 116736  
Ion Ratio Lower Upper  
168 100  
99 63.7 51.0 76.6



#8  
Diethyl Ether  
Concen: 6.085 ug/l  
RT: 2.382 min Scan# 324  
Delta R.T. 0.003 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

Tgt Ion: 74 Resp: 5373  
Ion Ratio Lower Upper  
74 100  
45 93.7 47.3 141.8

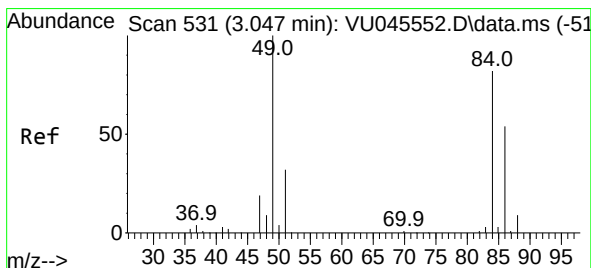
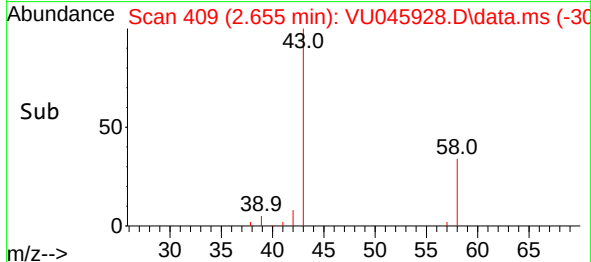
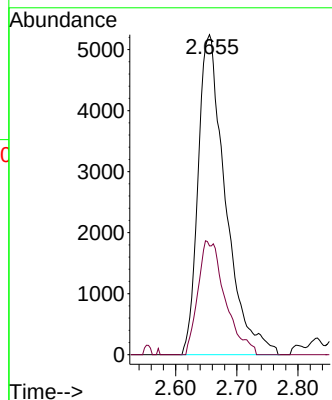
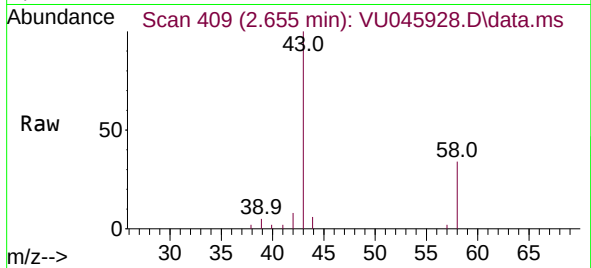




#16  
Acetone  
Concen: 18.326 ug/l  
RT: 2.655 min Scan# 409  
Delta R.T. 0.032 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

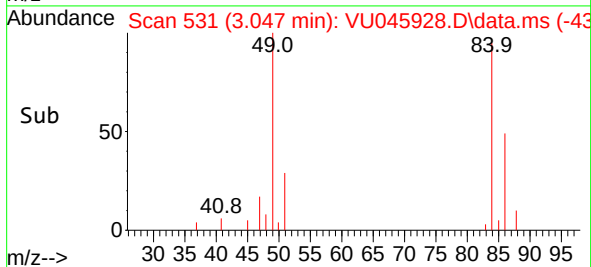
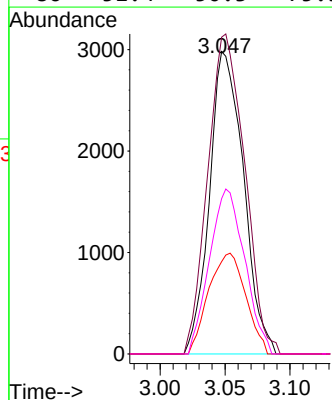
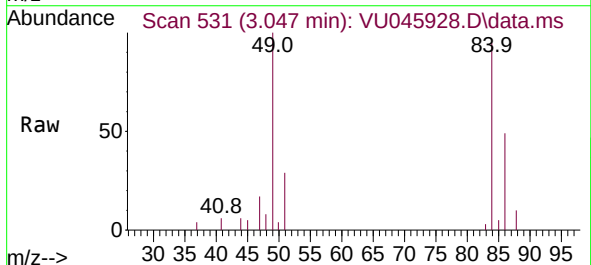
Instrument :  
MSVOA\_U  
ClientSampleId :

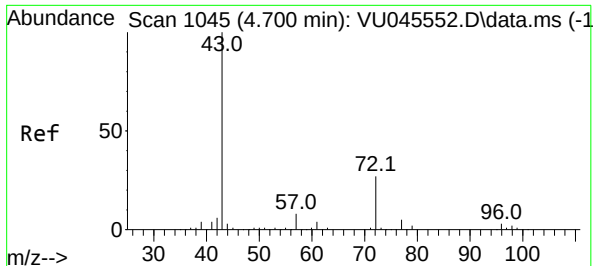
Tgt Ion: 43 Resp: 16309  
Ion Ratio Lower Upper  
43 100  
58 34.0 26.2 39.2



#20  
Methylene Chloride  
Concen: 3.508 ug/l  
RT: 3.047 min Scan# 531  
Delta R.T. -0.000 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

Tgt Ion: 84 Resp: 5424  
Ion Ratio Lower Upper  
84 100  
49 104.8 96.4 144.6  
51 30.5 30.5 45.7  
86 51.4 50.3 75.5





#25

2-Butanone

Concen: 2.396 ug/l

RT: 4.723 min Scan# 1105

Delta R.T. 0.022 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

Instrument :

MSVOA\_U

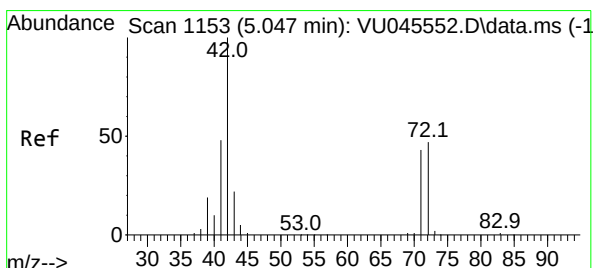
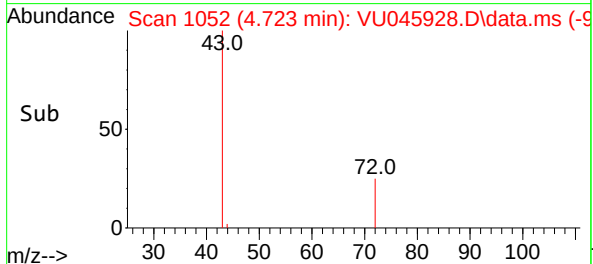
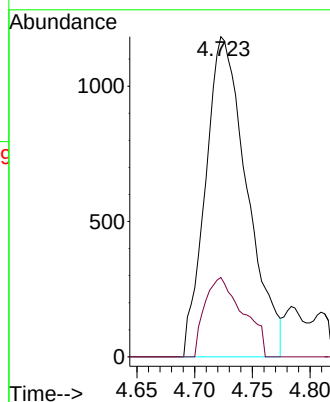
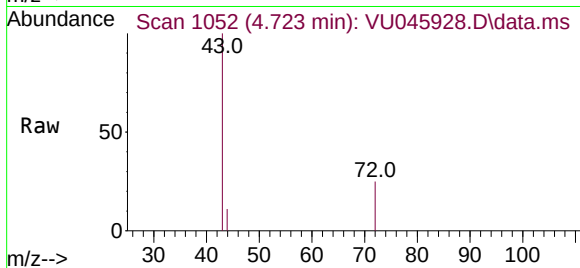
ClientSampleId :

Tgt Ion: 43 Resp: 2957

Ion Ratio Lower Upper

43 100

72 24.8 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.464 ug/l

RT: 5.067 min Scan# 1159

Delta R.T. 0.019 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

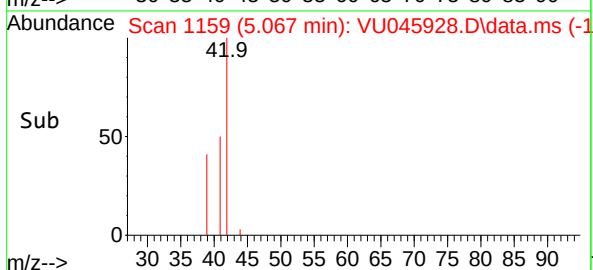
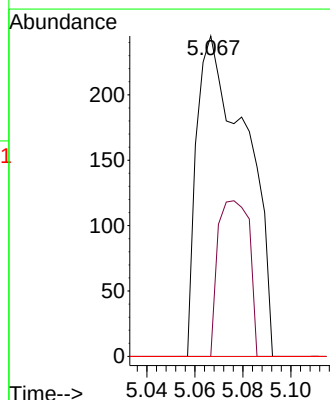
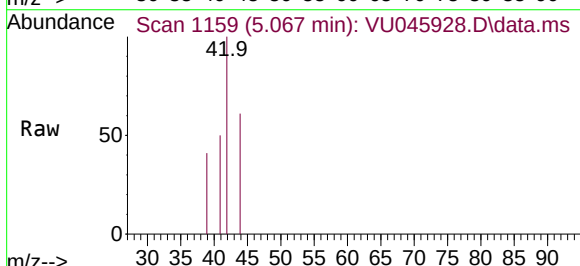
Tgt Ion: 42 Resp: 350

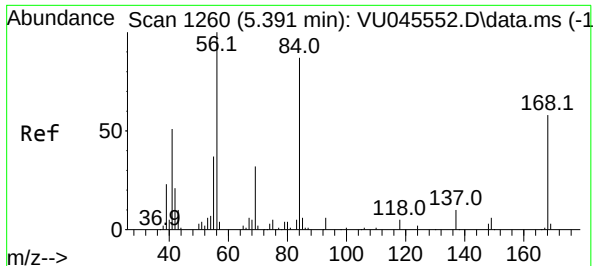
Ion Ratio Lower Upper

42 100

72 30.6 38.2 57.4#

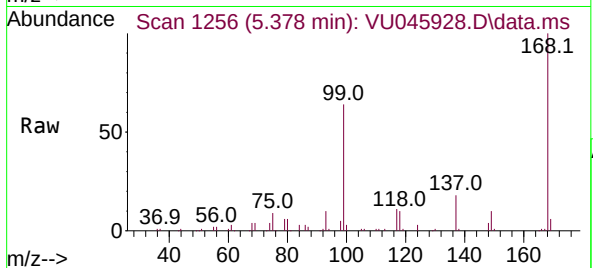
71 0.0 35.4 53.2#



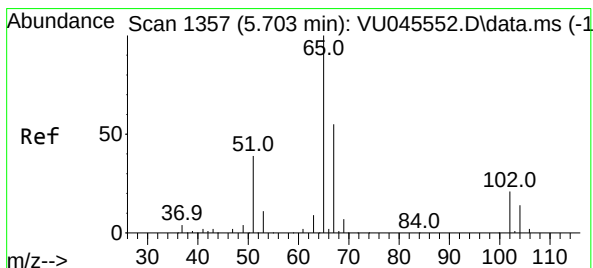
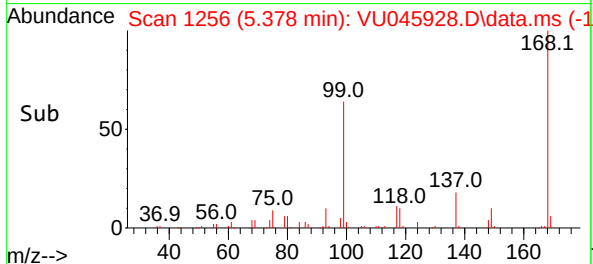
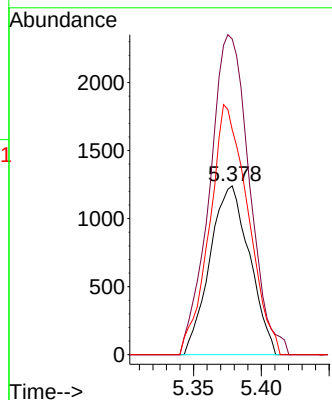


#31  
Cyclohexane  
Concen: 0.990 ug/l  
RT: 5.378 min Scan# 1256  
Delta R.T. -0.013 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

Instrument :  
MSVOA\_U  
ClientSampleId :

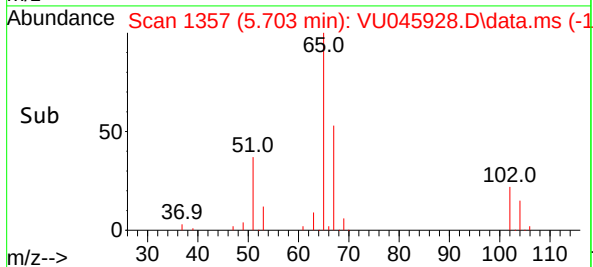
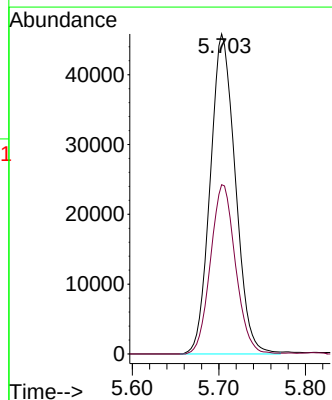
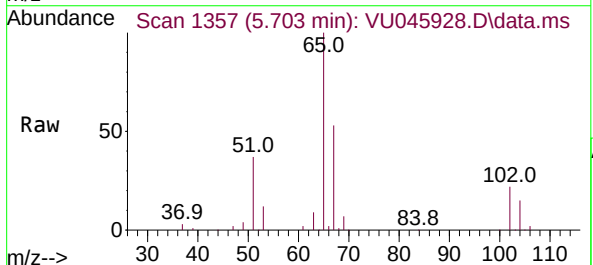


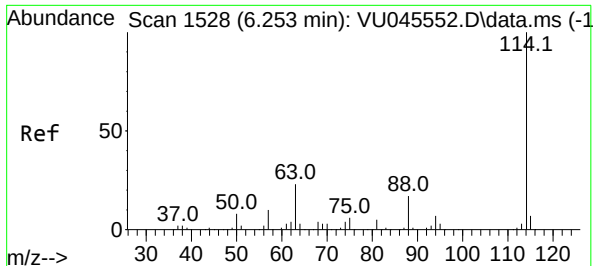
Tgt Ion: 56 Resp: 2526  
Ion Ratio Lower Upper  
56 100  
69 187.1 26.4 39.6#  
84 133.3 68.4 102.6#



#33  
1,2-Dichloroethane-d4  
Concen: 52.719 ug/l  
RT: 5.703 min Scan# 1357  
Delta R.T. 0.000 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

Tgt Ion: 65 Resp: 92167  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

Instrument :

MSVOA\_U

ClientSampleId :

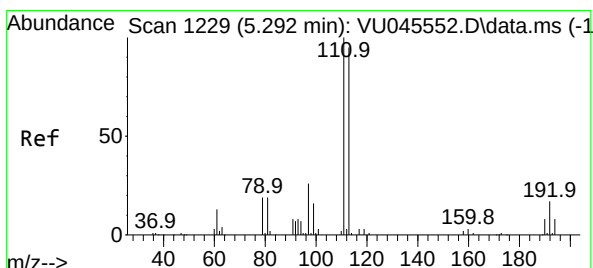
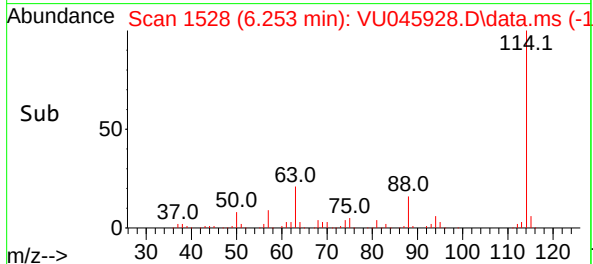
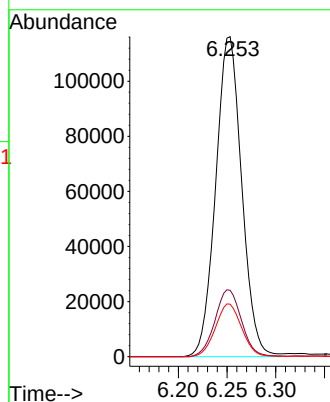
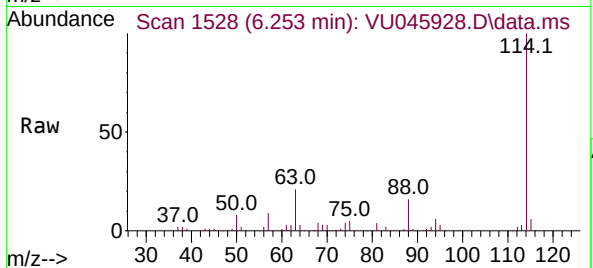
Tgt Ion:114 Resp: 215512

Ion Ratio Lower Upper

114 100

63 20.8 0.0 45.6

88 16.4 0.0 33.8



#35

Dibromofluoromethane

Concen: 51.042 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.000 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

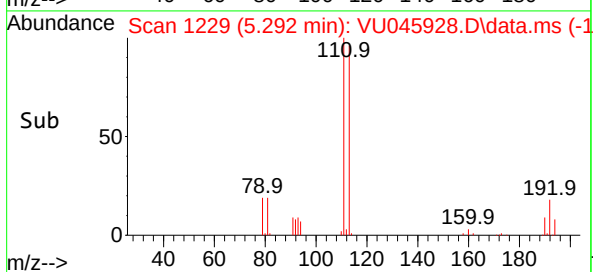
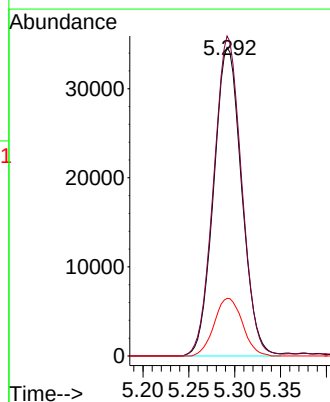
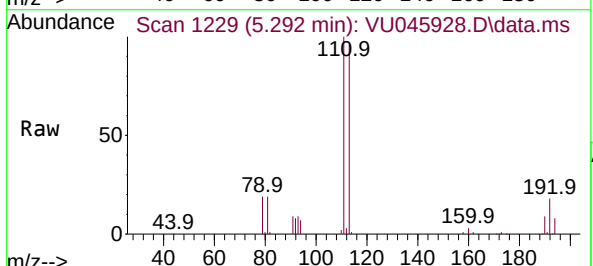
Tgt Ion:113 Resp: 73442

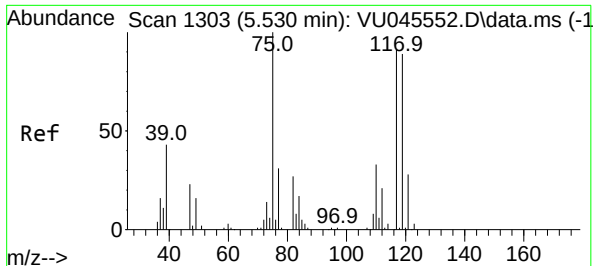
Ion Ratio Lower Upper

113 100

111 103.6 82.8 124.2

192 18.9 14.8 22.2





#36

1,1-Dichloropropene

Concen: 4.898 ug/l

RT: 5.375 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

Instrument :

MSVOA\_U

ClientSampleId :

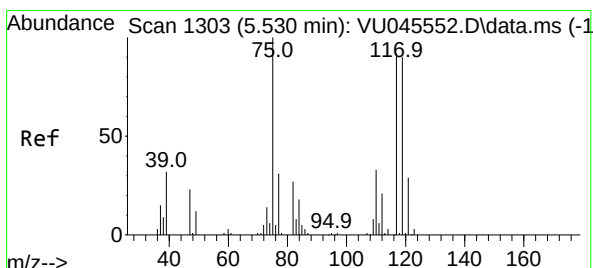
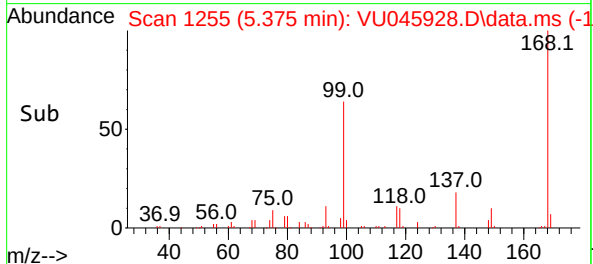
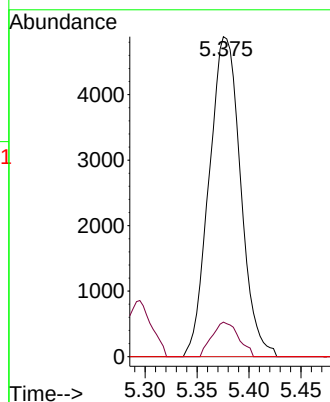
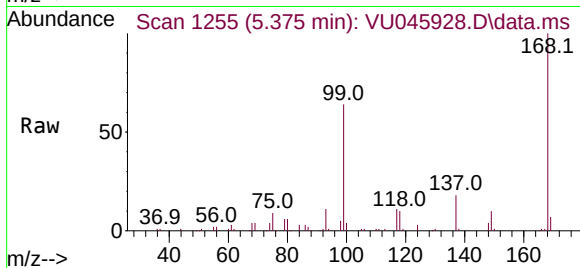
Tgt Ion: 75 Resp: 10293

Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.0#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.793 ug/l

RT: 5.378 min Scan# 1256

Delta R.T. -0.151 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

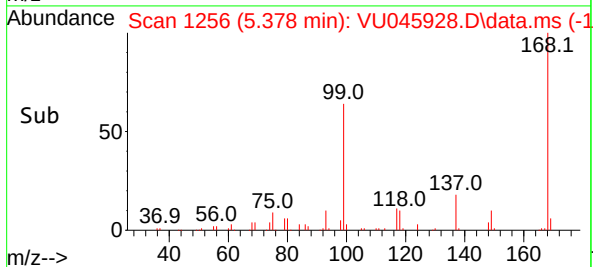
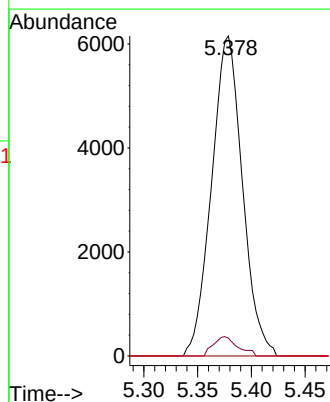
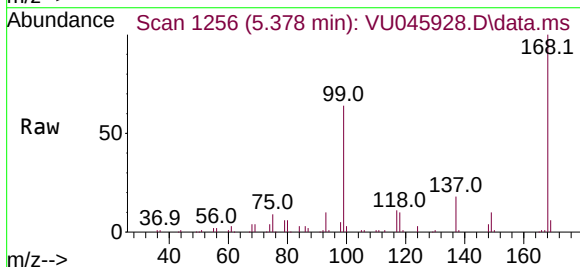
Tgt Ion: 117 Resp: 12273

Ion Ratio Lower Upper

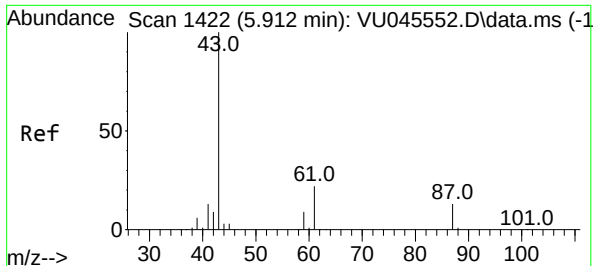
117 100

119 5.5 77.4 116.0#

121 0.0 24.8 37.2#







#43

Isopropyl Acetate

Concen: 2.359 ug/l

RT: 5.912 min Scan# 1422

Delta R.T. 0.000 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

Instrument :

MSVOA\_U

ClientSampleId :

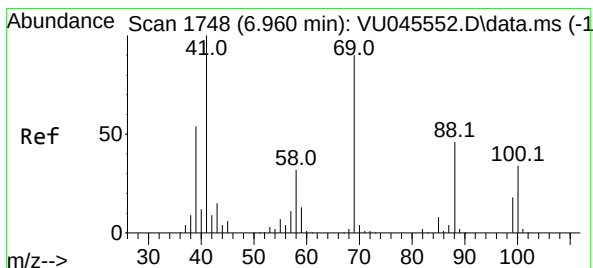
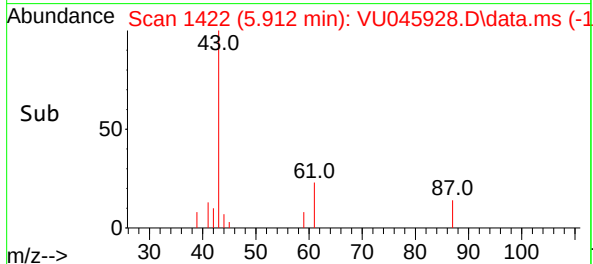
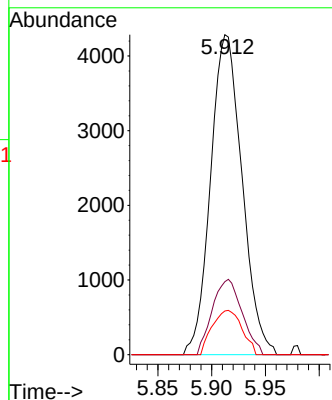
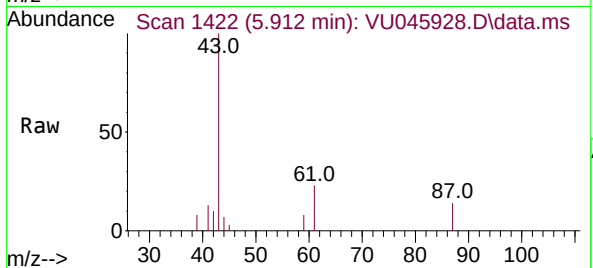
Tgt Ion: 43 Resp: 8711

Ion Ratio Lower Upper

43 100

61 22.3 16.9 25.3

87 13.1 11.0 16.4



#48

Methyl methacrylate

Concen: 2.281 ug/l

RT: 6.896 min Scan# 1728

Delta R.T. -0.064 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

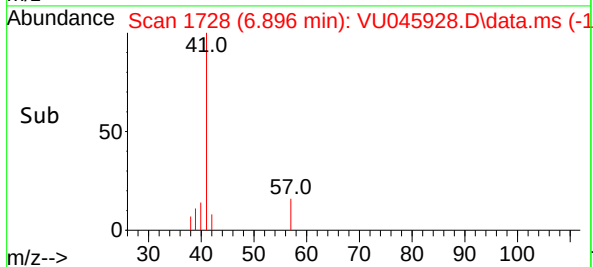
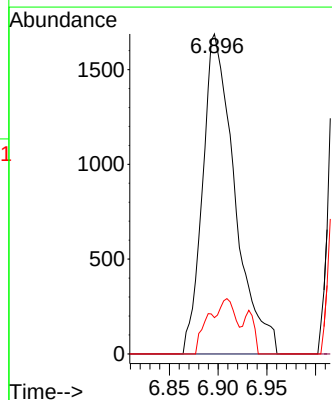
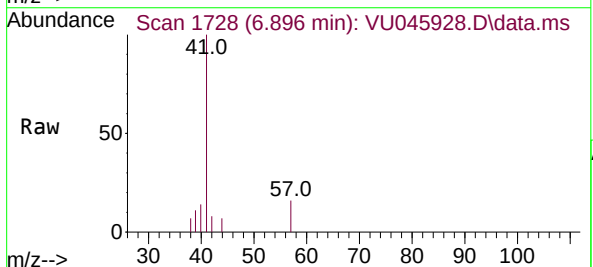
Tgt Ion: 41 Resp: 3876

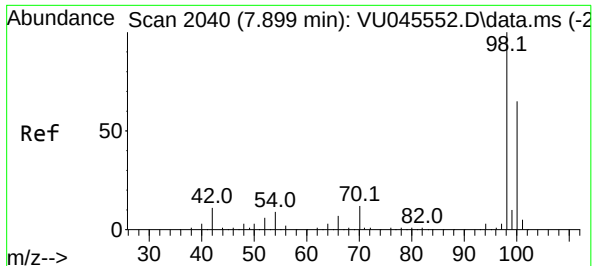
Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.2#

39 0.0 43.9 65.9#

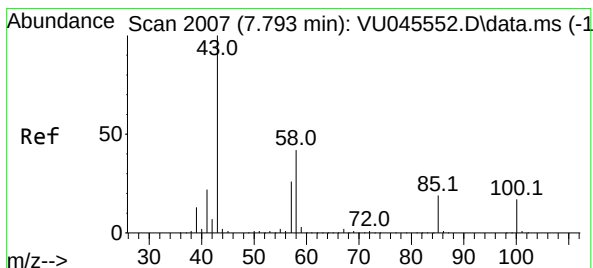
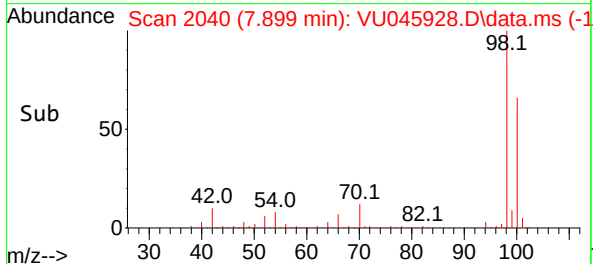
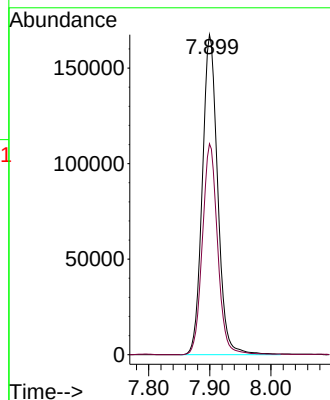
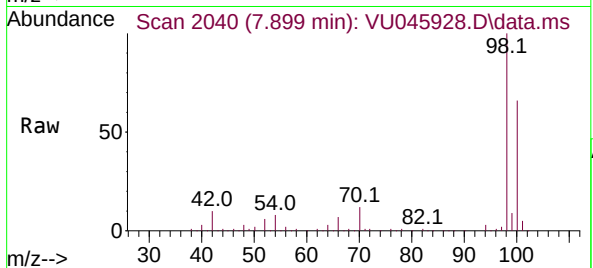




#50  
Toluene-d8  
Concen: 54.609 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. -0.000 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

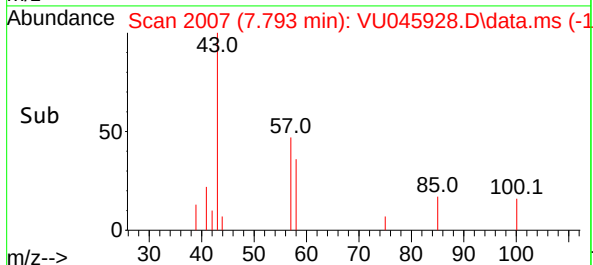
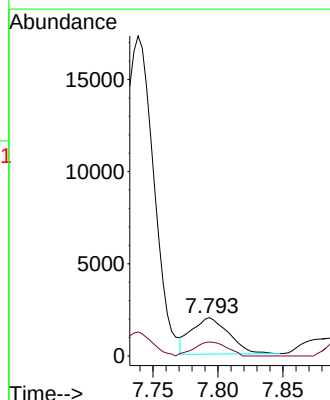
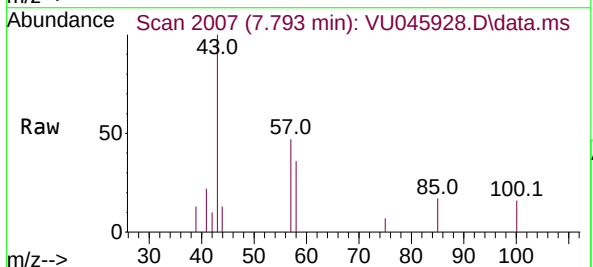
Instrument :  
MSVOA\_U  
ClientSampleId :

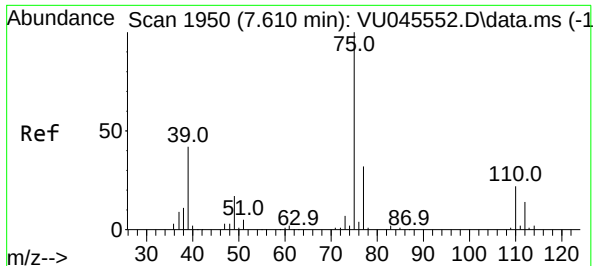
Tgt Ion: 98 Resp: 292177  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.5 78.7



#51  
4-Methyl-2-Pentanone  
Concen: 1.628 ug/l  
RT: 7.793 min Scan# 2007  
Delta R.T. 0.000 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

Tgt Ion: 43 Resp: 3966  
Ion Ratio Lower Upper  
43 100  
58 33.5 33.8 50.8#

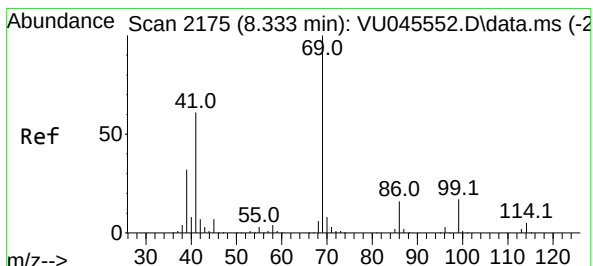
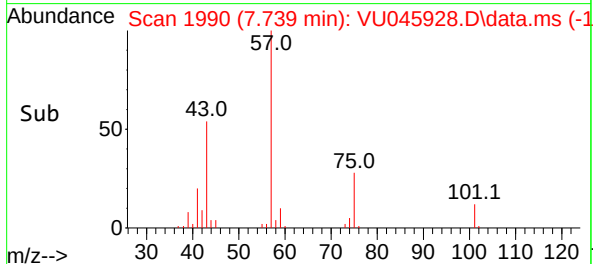
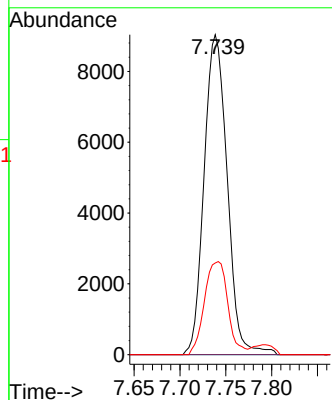
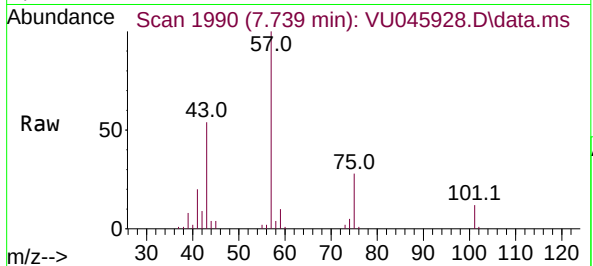




#54  
 cis-1,3-Dichloropropene  
 Concen: 5.993 ug/l  
 RT: 7.739 min Scan# 1950  
 Delta R.T. 0.129 min  
 Lab File: VU045928.D  
 Acq: 22 Nov 2021 20:32

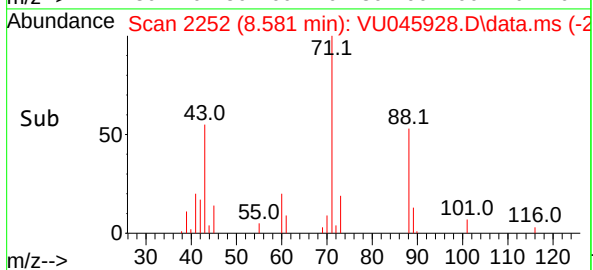
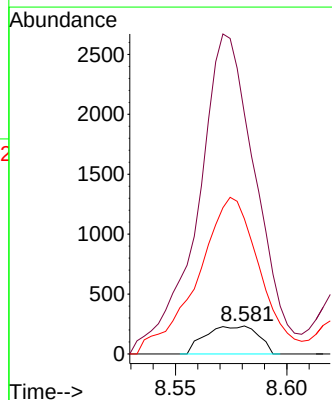
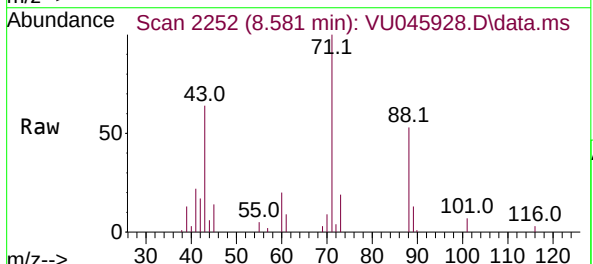
Instrument :  
 MSVOA\_U  
 ClientSampleId :

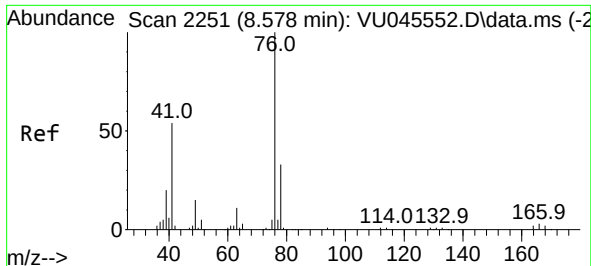
Tgt Ion: 75 Resp: 15833  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.6 37.0#  
 39 28.7 37.1 55.7#



#56  
 Ethyl methacrylate  
 Concen: 2.552 ug/l  
 RT: 8.581 min Scan# 2252  
 Delta R.T. 0.248 min  
 Lab File: VU045928.D  
 Acq: 22 Nov 2021 20:32

Tgt Ion: 69 Resp: 382  
 Ion Ratio Lower Upper  
 69 100  
 41 1266.8 51.0 76.4#  
 39 664.4 26.6 39.8#





#57

1,3-Dichloropropane

Concen: 2.110 ug/l

RT: 8.729 min Scan# 21

Delta R.T. 0.151 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

Instrument :

MSVOA\_U

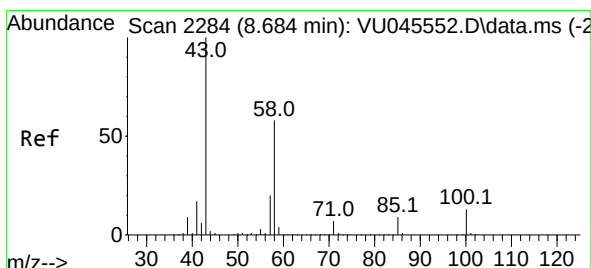
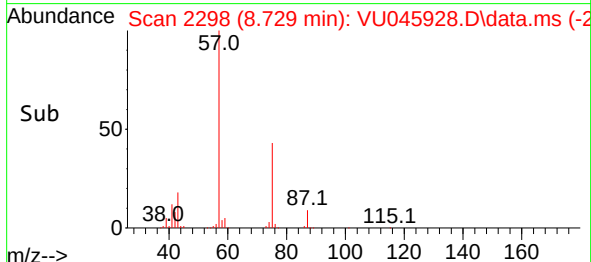
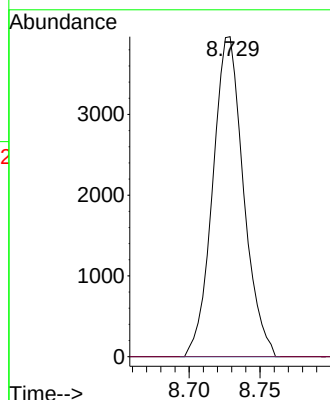
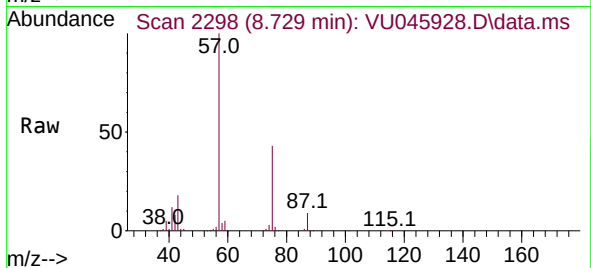
ClientSampleId :

Tgt Ion: 76 Resp: 5998

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 40.248 ug/l

RT: 8.729 min Scan# 2298

Delta R.T. 0.045 min

Lab File: VU045928.D

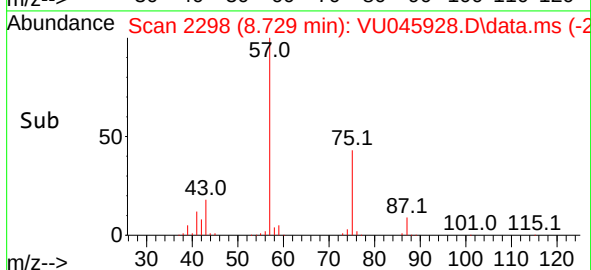
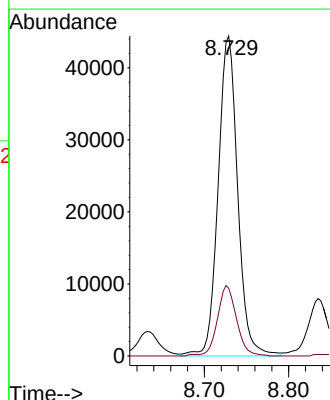
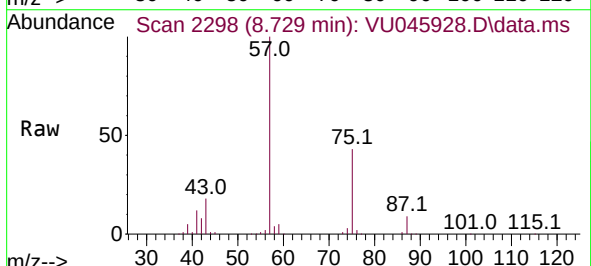
Acq: 22 Nov 2021 20:32

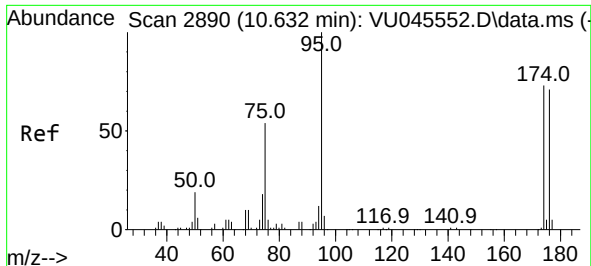
Tgt Ion: 43 Resp: 71483

Ion Ratio Lower Upper

43 100

58 21.2 29.5 88.6#





#62

4-Bromofluorobenzene

Concen: 51.843 ug/l

RT: 10.636 min Scan# 2891

Delta R.T. 0.003 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

Instrument :

MSVOA\_U

ClientSampleId :

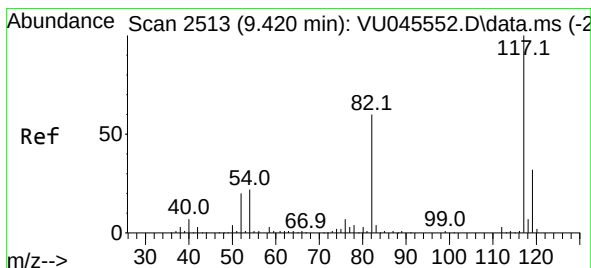
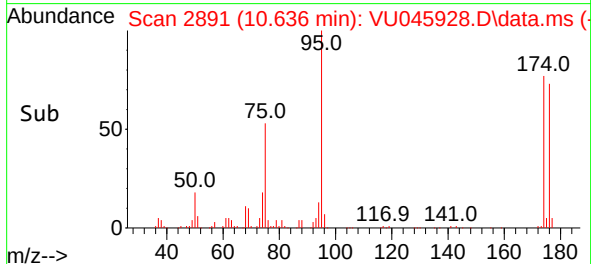
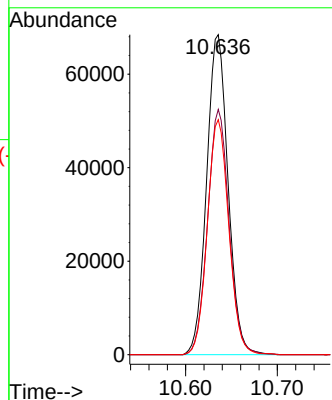
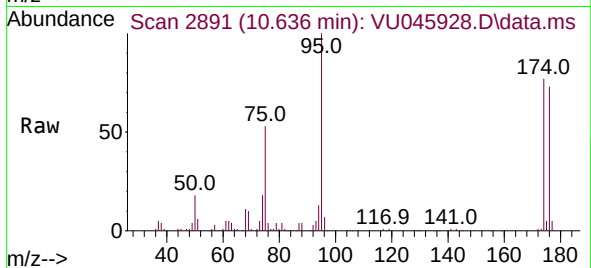
Tgt Ion: 95 Resp: 111229

Ion Ratio Lower Upper

95 100

174 76.7 0.0 141.8

176 73.7 0.0 138.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.420 min Scan# 2513

Delta R.T. 0.000 min

Lab File: VU045928.D

Acq: 22 Nov 2021 20:32

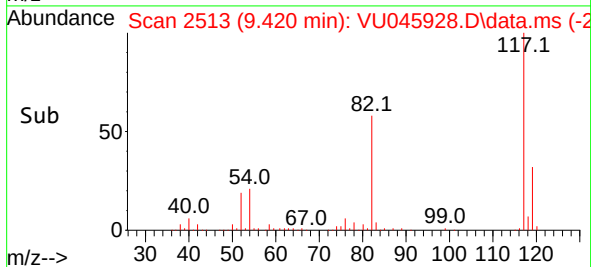
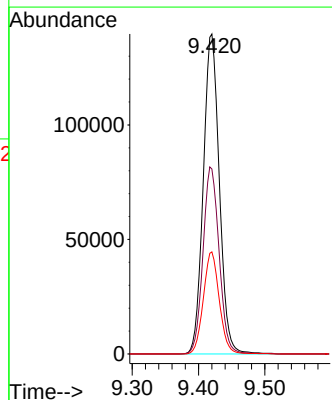
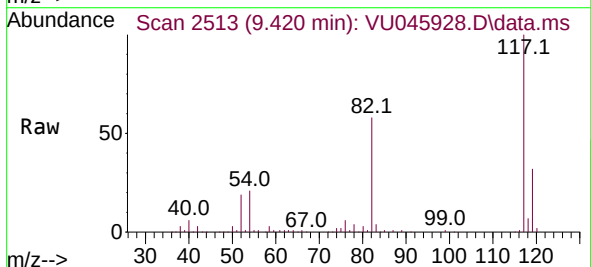
Tgt Ion: 117 Resp: 235706

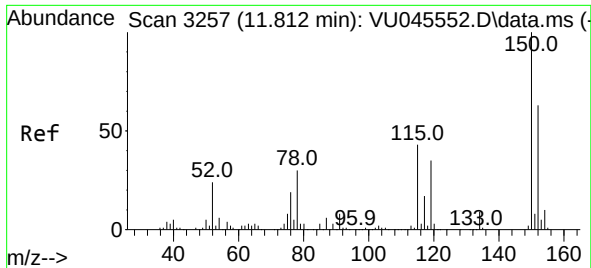
Ion Ratio Lower Upper

117 100

82 57.8 47.8 71.8

119 31.9 25.8 38.8

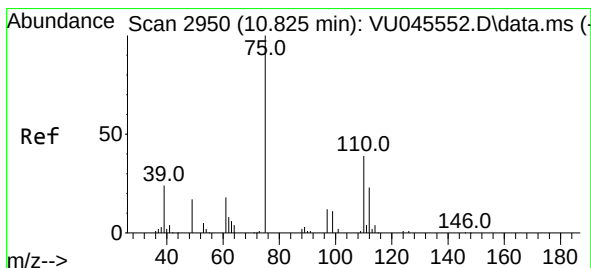
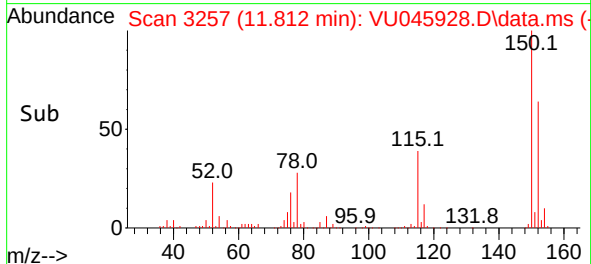
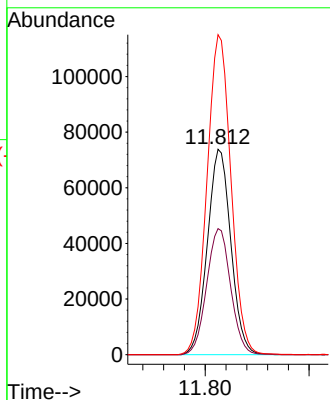
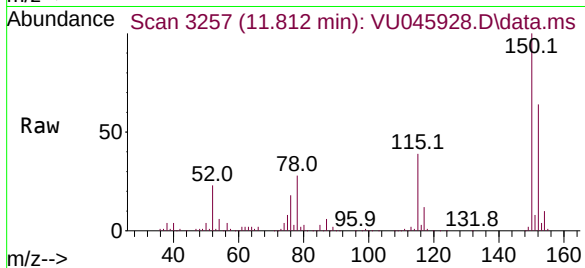




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.812 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VU045928.D  
 Acq: 22 Nov 2021 20:32

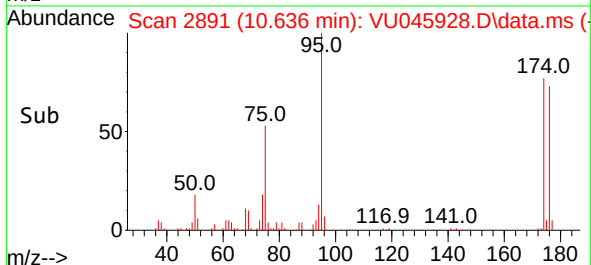
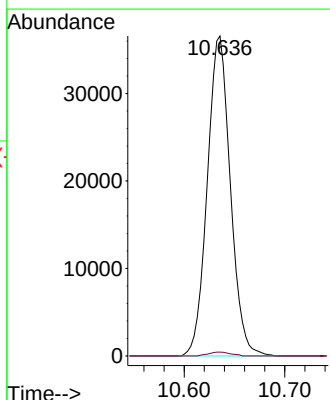
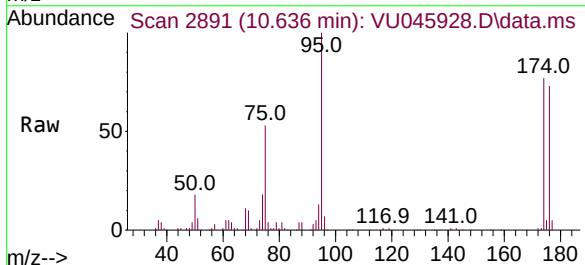
Instrument :  
 MSVOA\_U  
 ClientSampleId :

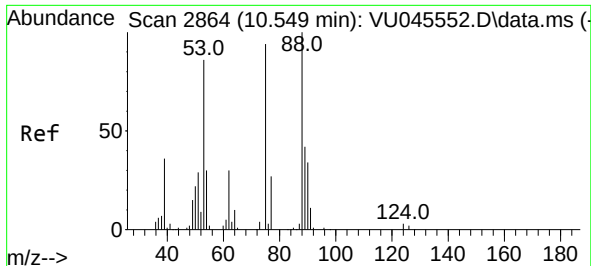
Tgt Ion:152 Resp: 115922  
 Ion Ratio Lower Upper  
 152 100  
 115 62.6 42.7 128.1  
 150 158.7 0.0 346.8



#76  
 1,2,3-Trichloropropane  
 Concen: 16.570 ug/l  
 RT: 10.636 min Scan# 2891  
 Delta R.T. -0.190 min  
 Lab File: VU045928.D  
 Acq: 22 Nov 2021 20:32

Tgt Ion: 75 Resp: 58251  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 17.1 51.3#

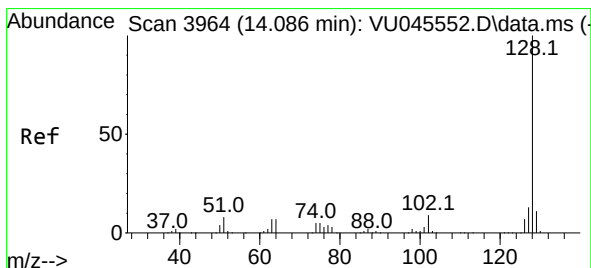
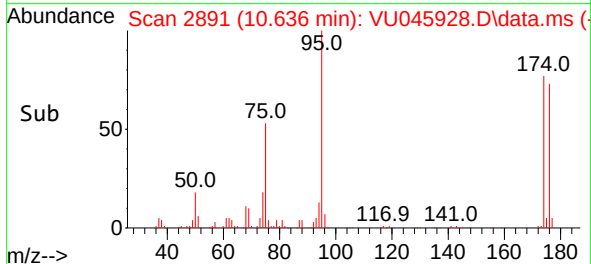
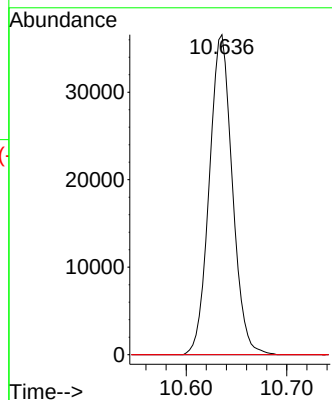
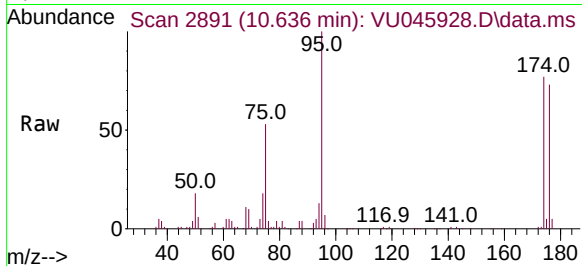




#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.026 ug/l  
RT: 10.636 min Scan# 21  
Delta R.T. 0.087 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 75 Resp: 58251  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.2 114.4#  
89 0.0 34.0 51.0#



#95  
Naphthalene  
Concen: 1.033 ug/l  
RT: 14.105 min Scan# 3970  
Delta R.T. 0.019 min  
Lab File: VU045928.D  
Acq: 22 Nov 2021 20:32

Tgt Ion: 128 Resp: 40  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 0.0 8.6 13.0#

