

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100121\  
 Data File : VU045069.D  
 Acq On : 01 Oct 2021 13:42  
 Operator : SY/MD  
 Sample : PB139508TB  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 02 03:10:58 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U092821W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 12:32:13 2021  
 Response via : Initial Calibration

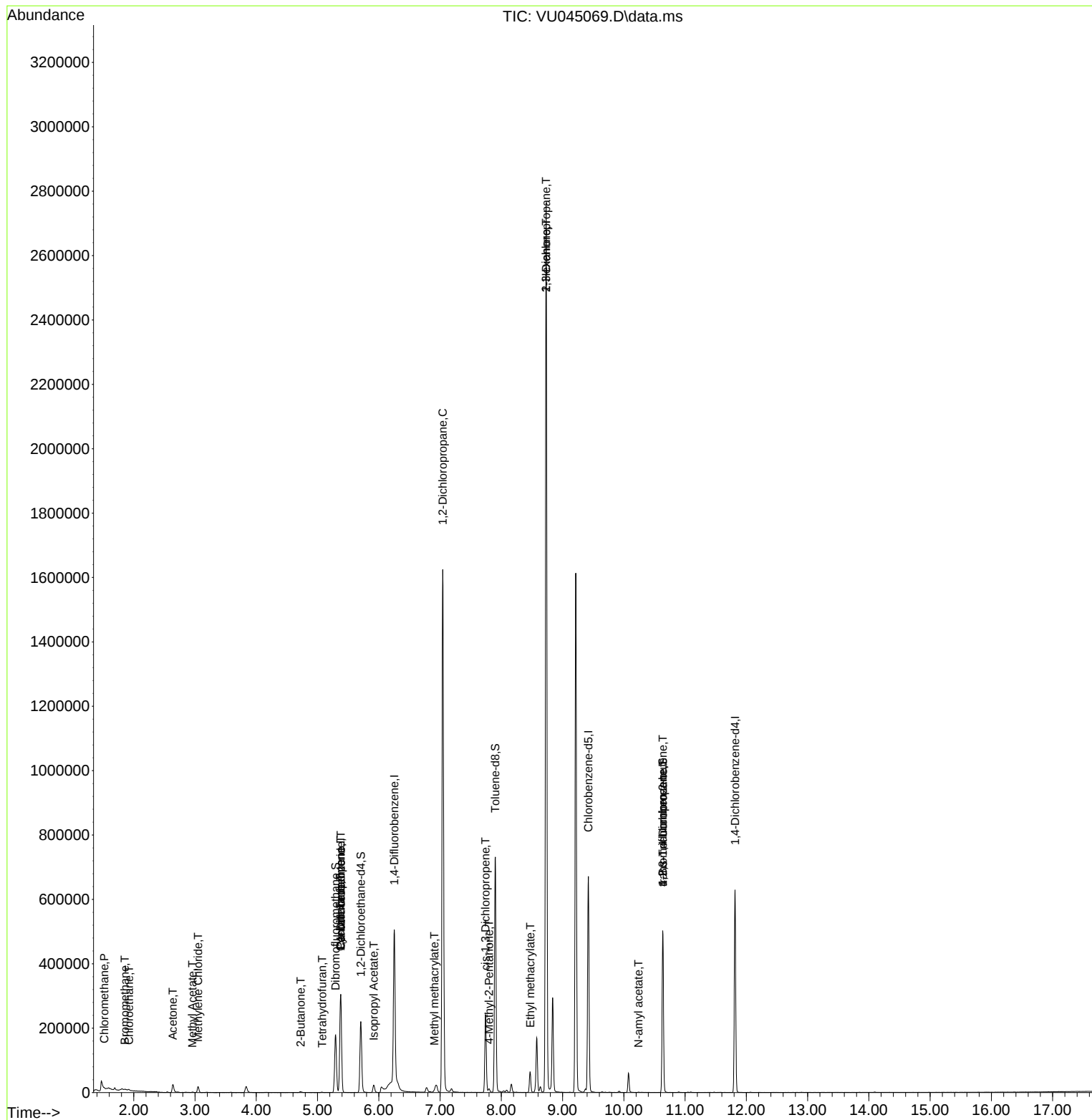
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.379  | 168   | 200656   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.253  | 114   | 366789   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.420  | 117   | 344161   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.816 | 152   | 151674   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.706  | 65    | 166534   | 49.858    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 99.720%  |
| 35) Dibromofluoromethane      | 5.295  | 113   | 115648   | 49.981    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 99.960%  |
| 50) Toluene-d8                | 7.903  | 98    | 467929   | 51.183    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 102.360% |
| 62) 4-Bromofluorobenzene      | 10.636 | 95    | 168129   | 44.544    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 89.080%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.520  | 50    | 844      | 0.262     | ug/l   | 98       |
| 5) Bromomethane               | 1.855  | 94    | 703      | 0.558     | ug/l   | 100      |
| 6) Chloroethane               | 1.925  | 64    | 2372     | 0.961     | ug/l # | 54       |
| 16) Acetone                   | 2.639  | 43    | 32614    | 16.450    | ug/l   | 98       |
| 18) Methyl Acetate            | 2.957  | 43    | 2198     | 0.379     | ug/l # | 77       |
| 20) Methylene Chloride        | 3.051  | 84    | 8301     | 2.780     | ug/l   | 97       |
| 25) 2-Butanone                | 4.726  | 43    | 4413     | 1.567     | ug/l   | 100      |
| 29) Tetrahydrofuran           | 5.076  | 42    | 922      | 0.550     | ug/l # | 82       |
| 31) Cyclohexane               | 5.375  | 56    | 5246     | 1.034     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.375  | 75    | 18713    | 4.879     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.379  | 117   | 21201    | 6.387     | ug/l # | 15       |
| 43) Isopropyl Acetate         | 5.919  | 43    | 25642    | 3.358     | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 7.044  | 63    | 2004     | 0.662     | ug/l # | 45       |
| 48) Methyl methacrylate       | 6.906  | 41    | 8809     | 2.370     | ug/l # | 14       |
| 49) 1,4-Dioxane               | 7.044  | 88    | 107      | Below Cal | #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.800  | 43    | 7611     | 1.369     | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 7.742  | 75    | 43208    | 9.156     | ug/l # | 61       |
| 56) Ethyl methacrylate        | 8.472  | 69    | 158      | 1.847     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 8.732  | 76    | 28652    | 5.389     | ug/l # | 43       |
| 59) 2-Hexanone                | 8.732  | 43    | 389301   | 86.004    | ug/l # | 49       |
| 74) N-amyl acetate            | 10.237 | 43    | 1151     | 0.202     | ug/l # | 42       |
| 76) 1,2,3-Trichloropropane    | 10.636 | 75    | 91534    | 20.690    | ug/l # | 41       |
| 81) trans-1,4-Dichloro-2-b... | 10.636 | 75    | 91534    | 57.418    | ug/l # | 9        |

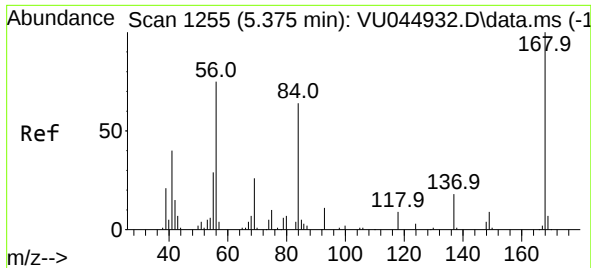
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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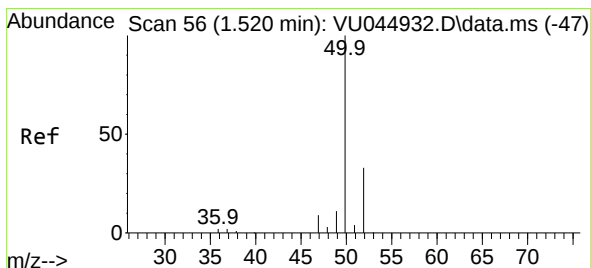
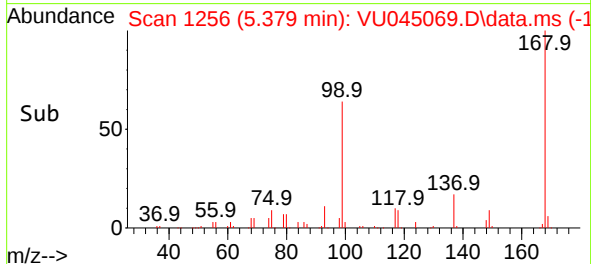
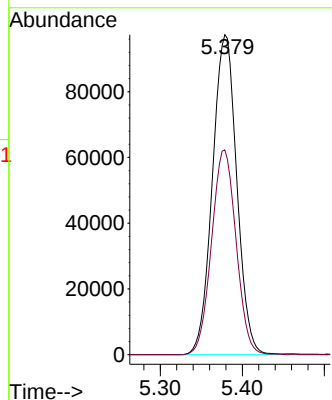
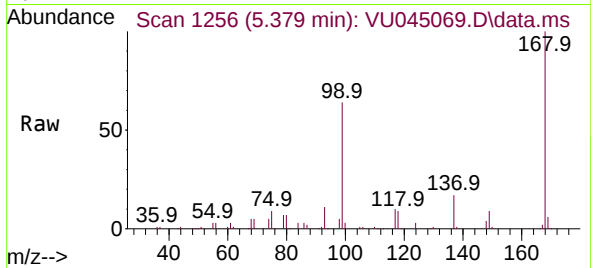




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.379 min Scan# 1256  
Delta R.T. 0.004 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

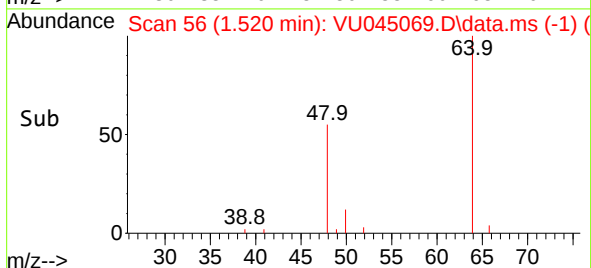
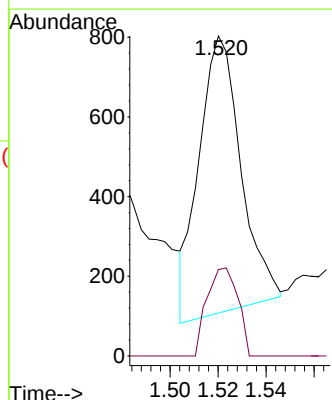
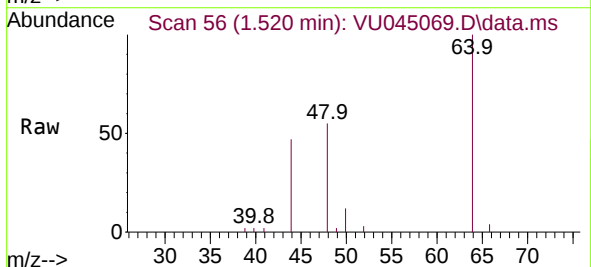
Instrument :  
MSVOA\_U  
ClientSampled :

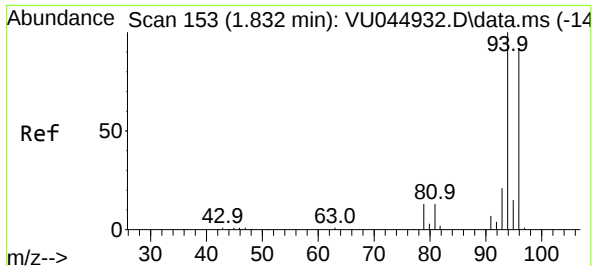
Tgt Ion:168 Resp: 200656  
Ion Ratio Lower Upper  
168 100  
99 64.0 51.4 77.0



#3  
Chloromethane  
Concen: 0.262 ug/l  
RT: 1.520 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

Tgt Ion: 50 Resp: 844  
Ion Ratio Lower Upper  
50 100  
52 33.8 26.3 39.5

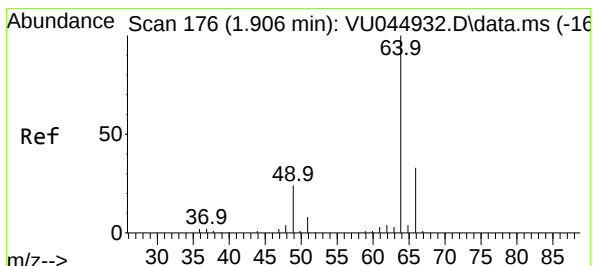
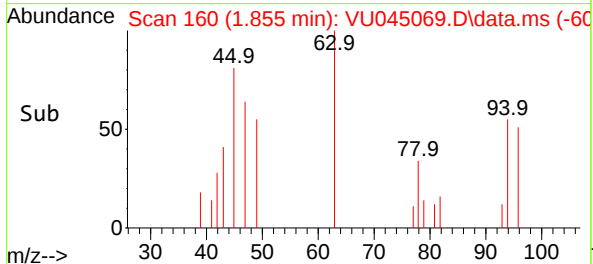
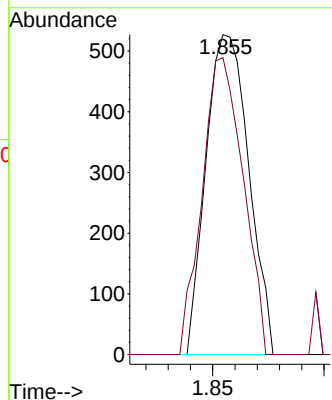
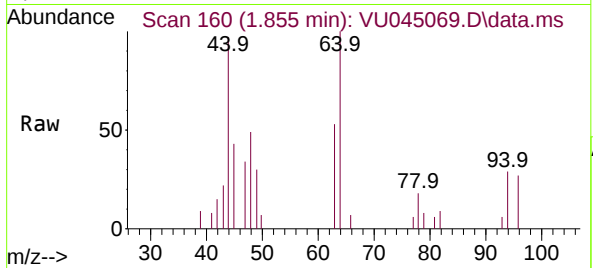




#5  
Bromomethane  
Concen: 0.558 ug/l  
RT: 1.855 min Scan# 160  
Delta R.T. 0.023 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

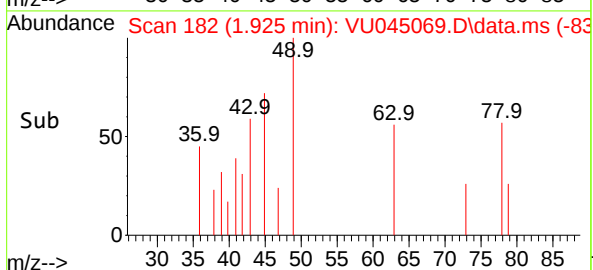
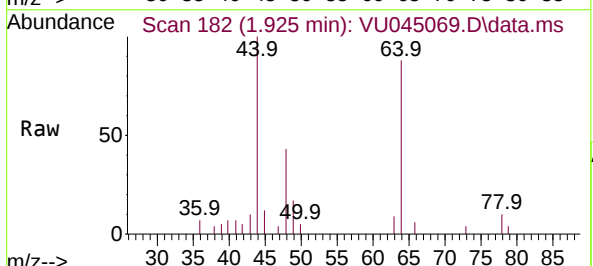
Instrument :  
MSVOA\_U  
ClientSampled :

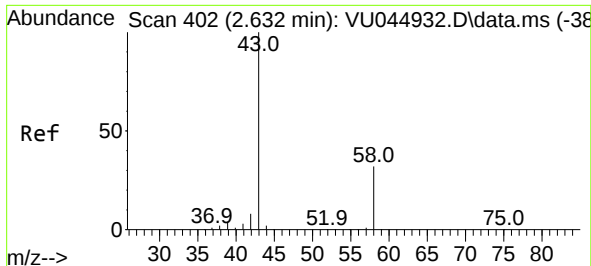
Tgt Ion: 94 Resp: 703  
Ion Ratio Lower Upper  
94 100  
96 92.8 74.5 111.7



#6  
Chloroethane  
Concen: 0.961 ug/l  
RT: 1.925 min Scan# 182  
Delta R.T. 0.019 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

Tgt Ion: 64 Resp: 2372  
Ion Ratio Lower Upper  
64 100  
66 6.5 25.8 38.8#

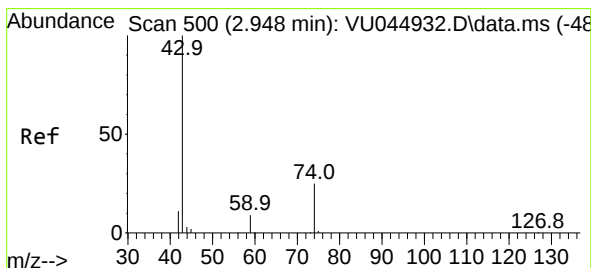
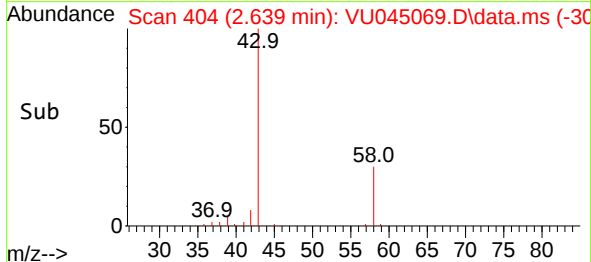
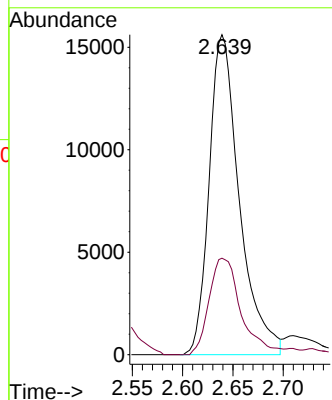
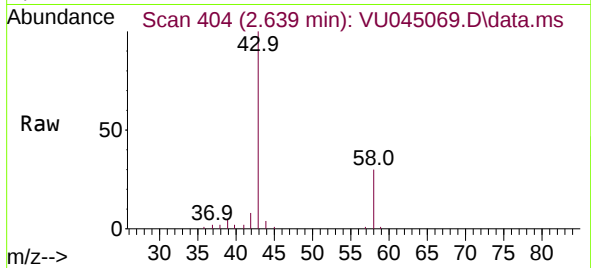




#16  
Acetone  
Concen: 16.450 ug/l  
RT: 2.639 min Scan# 404  
Delta R.T. 0.007 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

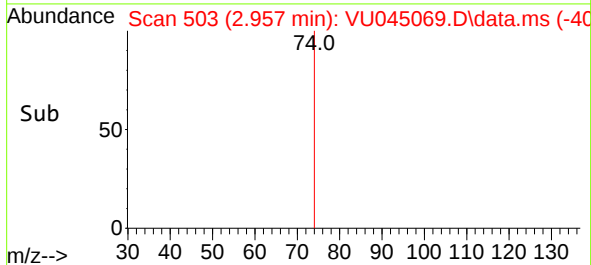
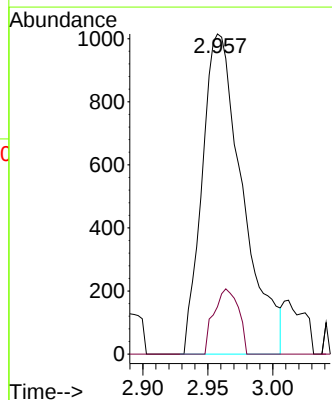
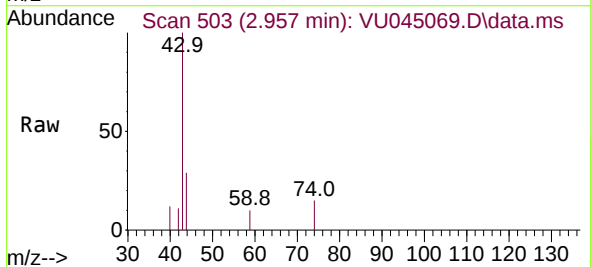
Instrument :  
MSVOA\_U  
ClientSampled :

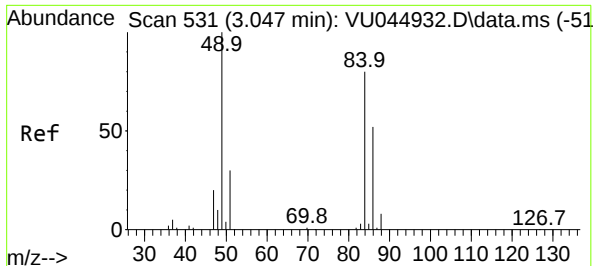
Tgt Ion: 43 Resp: 32614  
Ion Ratio Lower Upper  
43 100  
58 30.2 25.2 37.8



#18  
Methyl Acetate  
Concen: 0.379 ug/l  
RT: 2.957 min Scan# 503  
Delta R.T. 0.009 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

Tgt Ion: 43 Resp: 2198  
Ion Ratio Lower Upper  
43 100  
74 12.3 19.0 28.6#





#20

Methylene Chloride

Concen: 2.780 ug/l

RT: 3.051 min Scan# 532

Delta R.T. 0.004 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

Instrument :  
MSVOA\_U  
ClientSampled :

Tgt Ion: 84 Resp: 8301

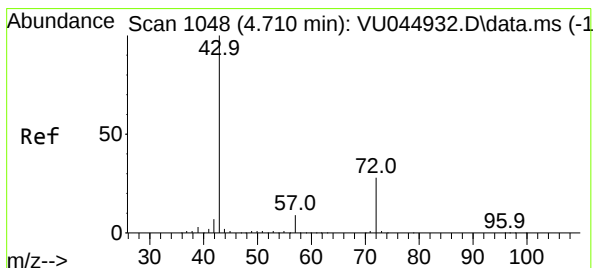
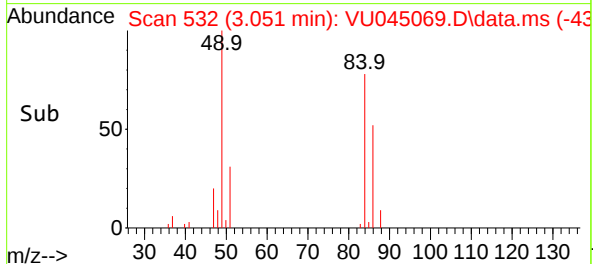
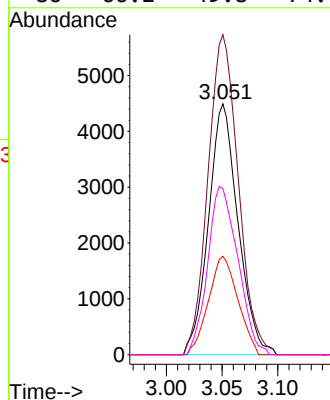
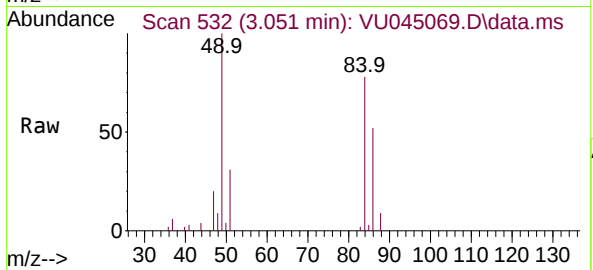
Ion Ratio Lower Upper

84 100

49 127.5 104.9 157.3

51 39.2 31.8 47.8

86 66.2 49.8 74.6



#25

2-Butanone

Concen: 1.567 ug/l

RT: 4.726 min Scan# 1053

Delta R.T. 0.016 min

Lab File: VU045069.D

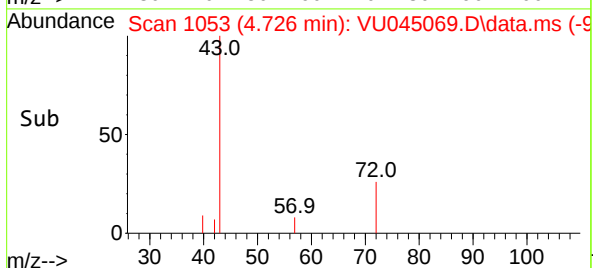
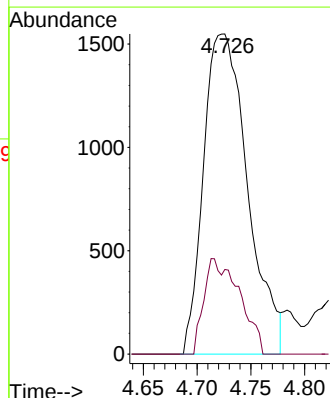
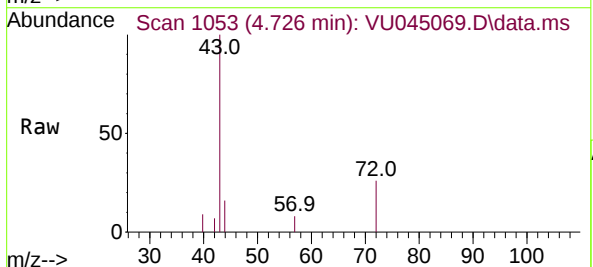
Acq: 01 Oct 2021 13:42

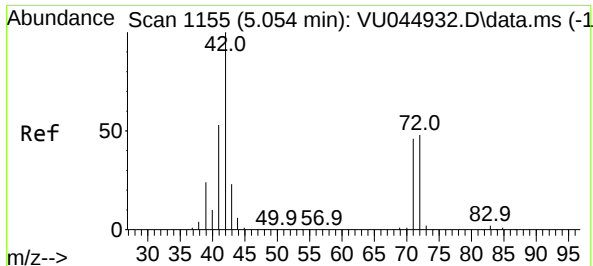
Tgt Ion: 43 Resp: 4413

Ion Ratio Lower Upper

43 100

72 26.4 21.3 31.9





#29

Tetrahydrofuran

Concen: 0.550 ug/l

RT: 5.076 min Scan# 1162

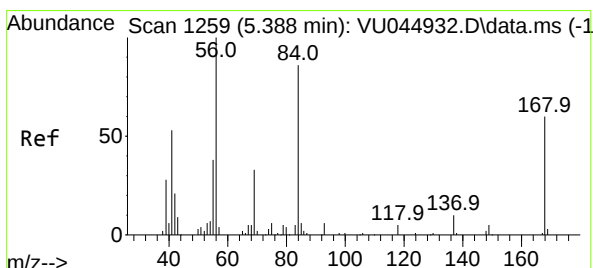
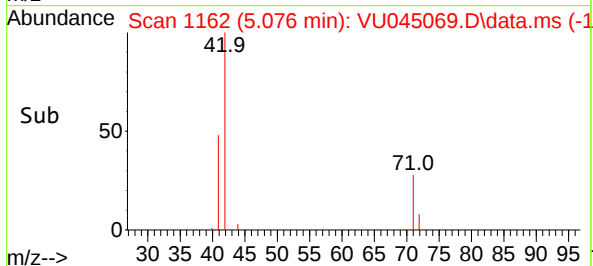
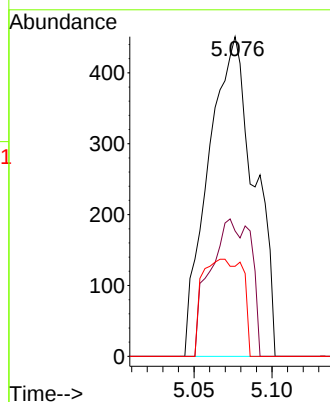
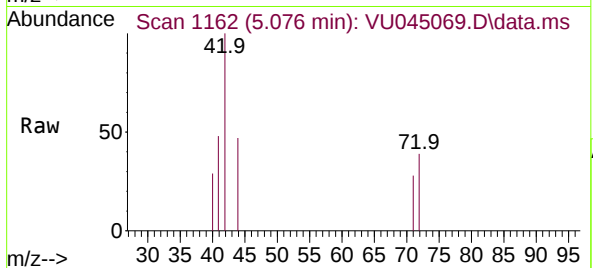
Delta R.T. 0.022 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 922   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 38.3  | 36.2  | 54.4  |
| 71       | 26.6  | 34.1  | 51.1# |

Instrument :  
MSVOA\_U  
ClientSampleId :



#31

Cyclohexane

Concen: 1.034 ug/l

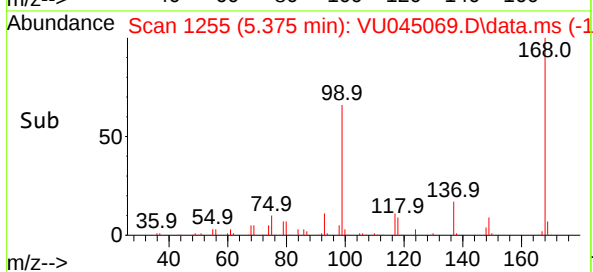
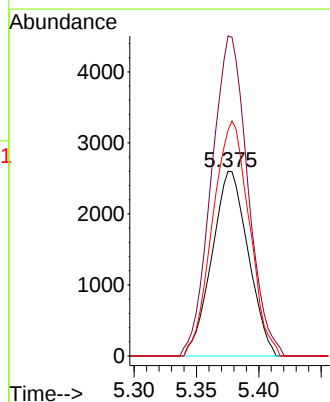
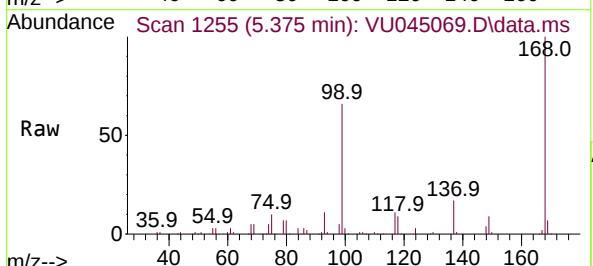
RT: 5.375 min Scan# 1255

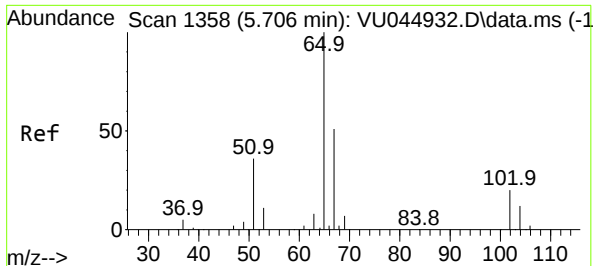
Delta R.T. -0.013 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5246  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 173.3 | 25.2  | 37.8# |
| 84       | 122.3 | 66.4  | 99.6# |





#33

1,2-Dichloroethane-d4

Concen: 49.858 ug/l

RT: 5.706 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

Tgt Ion: 65 Resp: 166534

Ion Ratio Lower Upper

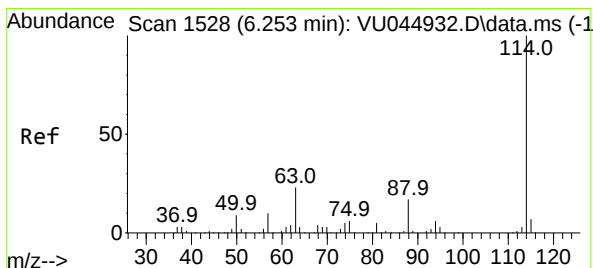
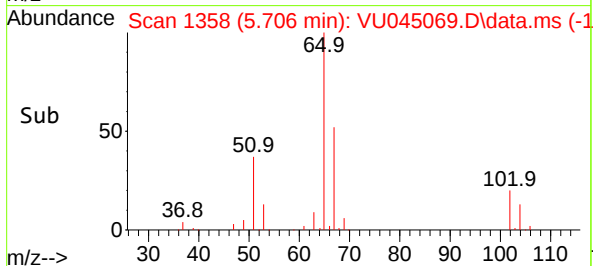
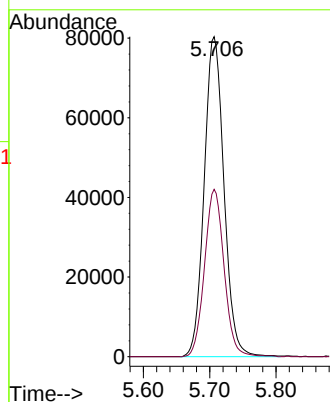
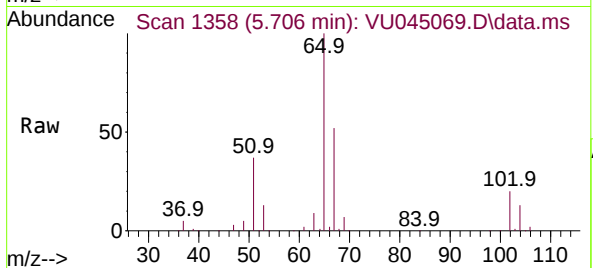
65 100

67 51.8 0.0 104.8

Instrument :

MSVOA\_U

ClientSampled :



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

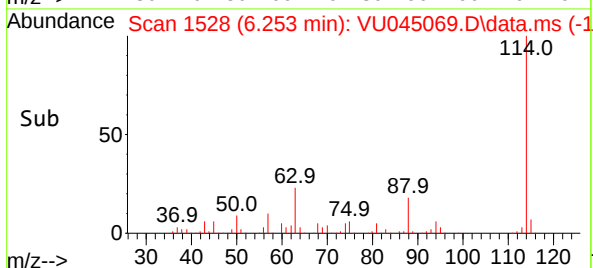
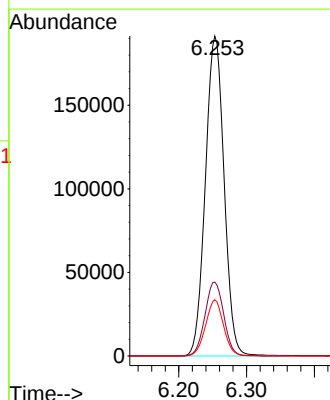
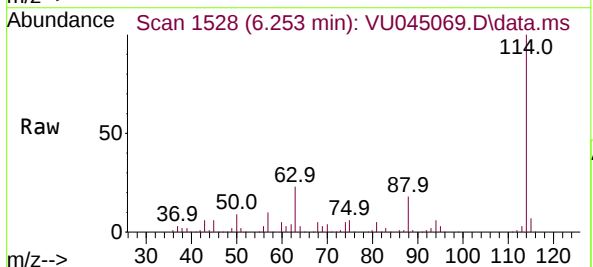
Tgt Ion: 114 Resp: 366789

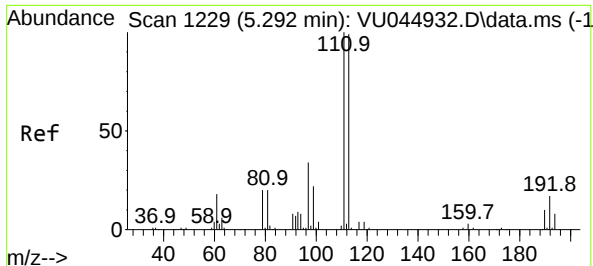
Ion Ratio Lower Upper

114 100

63 23.1 0.0 47.8

88 17.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.981 ug/l

RT: 5.295 min Scan# 1230

Delta R.T. 0.003 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

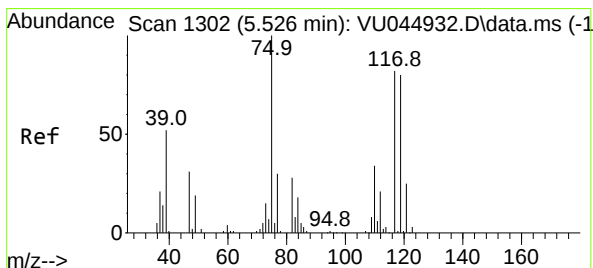
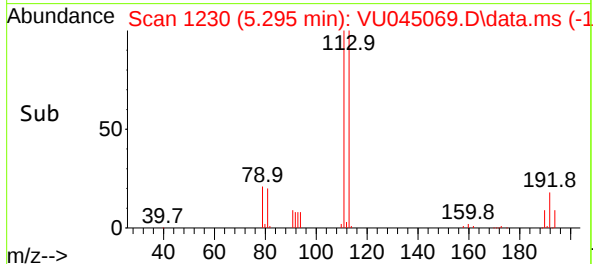
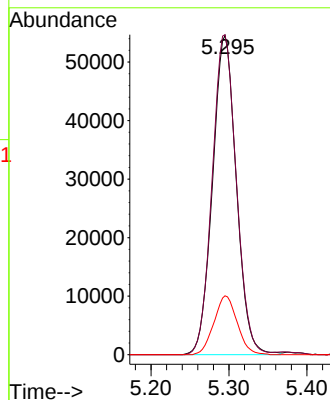
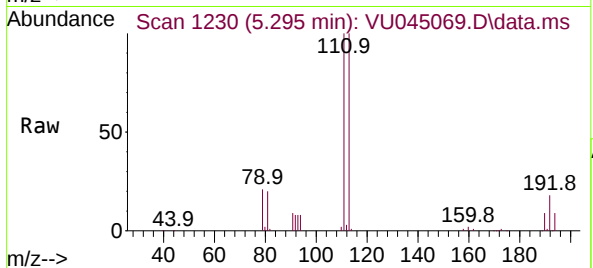
Tgt Ion: 113 Resp: 115648

Ion Ratio Lower Upper

113 100

111 101.6 84.1 126.1

192 18.1 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.879 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

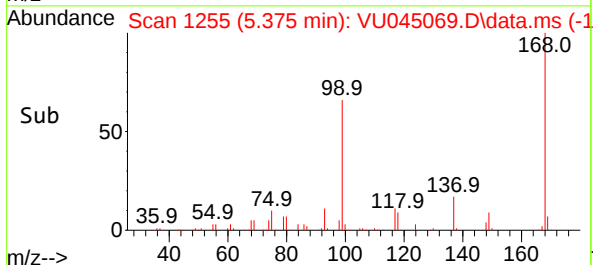
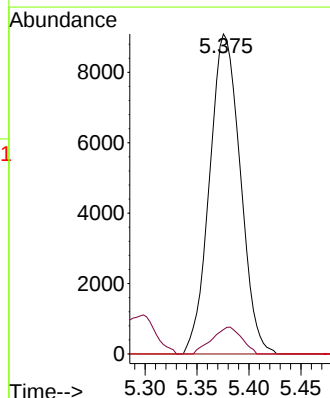
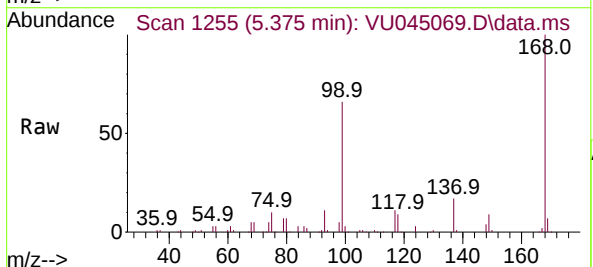
Tgt Ion: 75 Resp: 18713

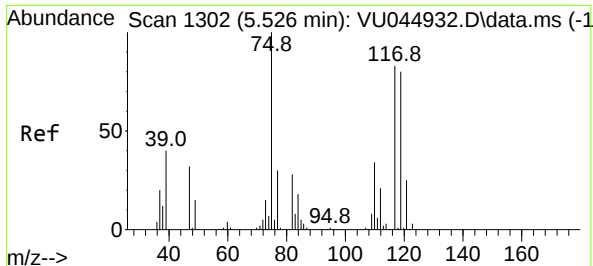
Ion Ratio Lower Upper

75 100

110 8.1 16.3 48.9#

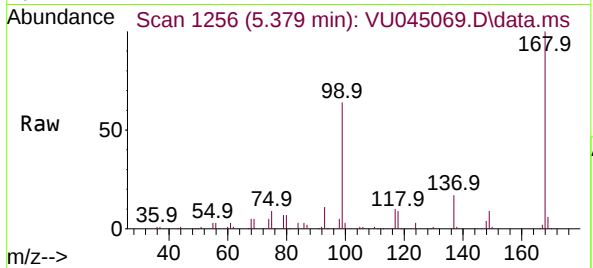
77 0.0 25.0 37.4#



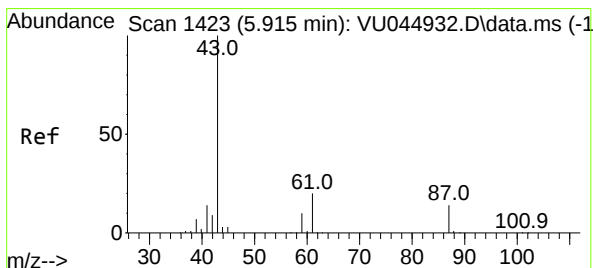
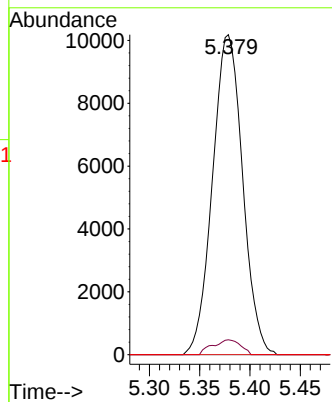
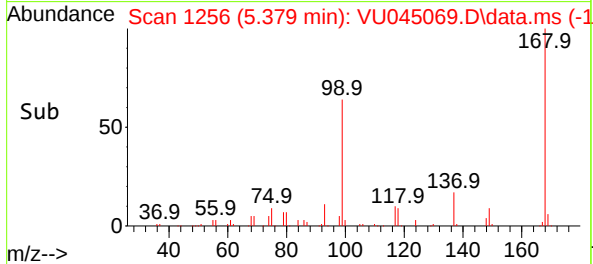


#38  
Carbon Tetrachloride  
Concen: 6.387 ug/l  
RT: 5.379 min Scan# 1256  
Delta R.T. -0.147 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

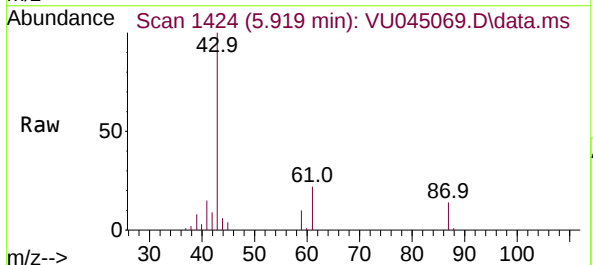
Instrument :  
MSVOA\_U  
ClientSampleId :



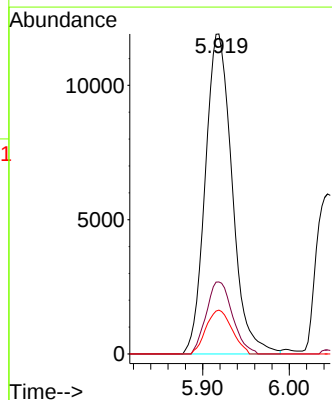
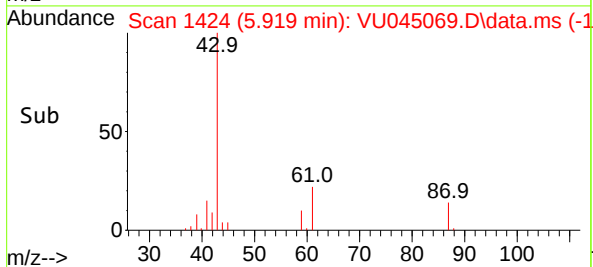
Tgt Ion:117 Resp: 21201  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.4 116.2#  
121 0.0 24.5 36.7#

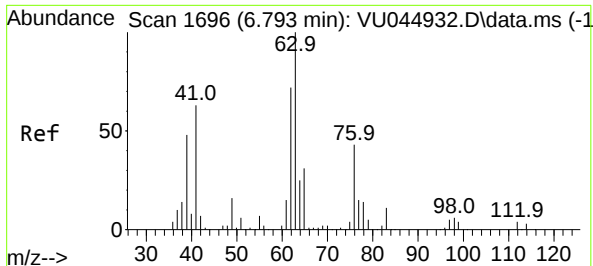


#43  
Isopropyl Acetate  
Concen: 3.358 ug/l  
RT: 5.919 min Scan# 1424  
Delta R.T. 0.004 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42



Tgt Ion: 43 Resp: 25642  
Ion Ratio Lower Upper  
43 100  
61 22.0 16.1 24.1  
87 13.2 10.3 15.5



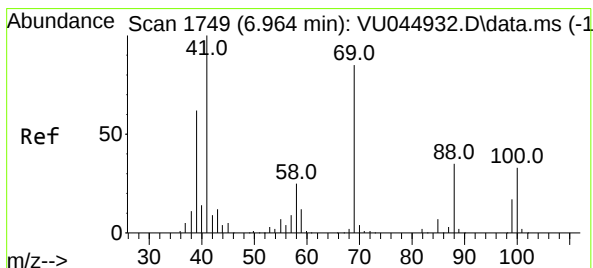
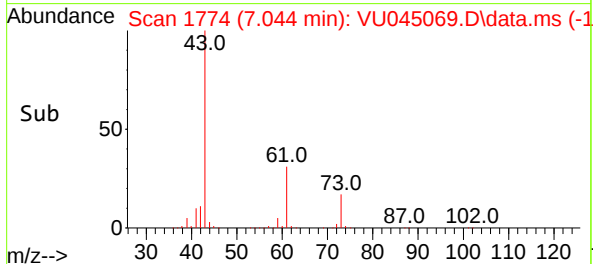
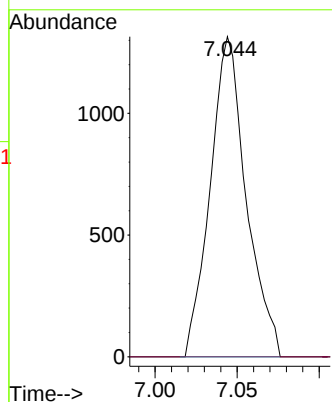
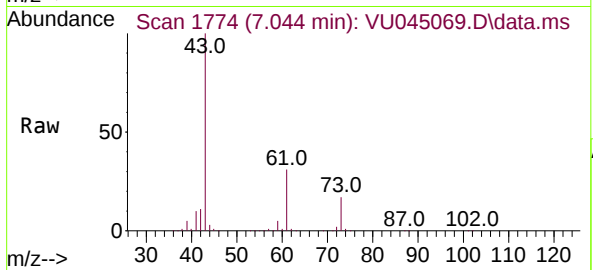


#45

1,2-Dichloropropane  
Concen: 0.662 ug/l  
RT: 7.044 min Scan# 1774  
Delta R.T. 0.251 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

Instrument :  
MSVOA\_U  
ClientSampled :

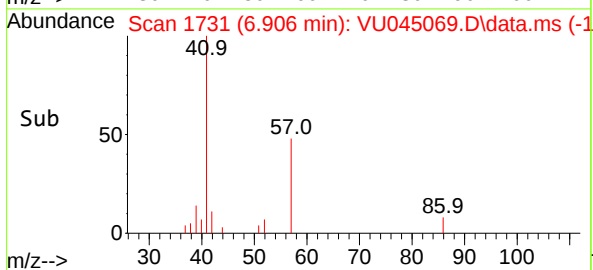
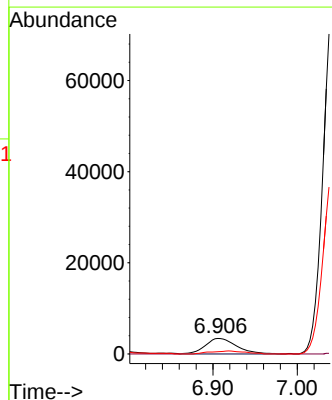
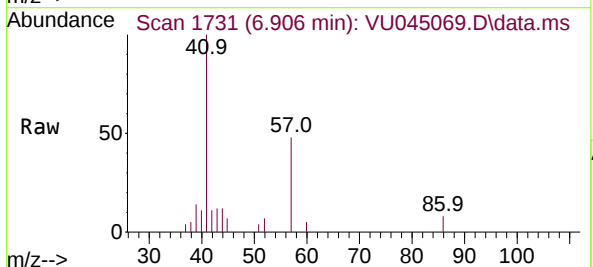
Tgt Ion: 63 Resp: 2004  
Ion Ratio Lower Upper  
63 100  
65 0.0 23.9 35.9#

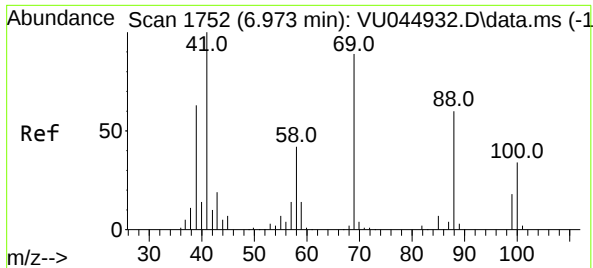


#48

Methyl methacrylate  
Concen: 2.370 ug/l  
RT: 6.906 min Scan# 1731  
Delta R.T. -0.058 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

Tgt Ion: 41 Resp: 8809  
Ion Ratio Lower Upper  
41 100  
69 0.0 65.6 98.4#  
39 0.0 46.2 69.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.044 min Scan# 1774

Delta R.T. 0.071 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

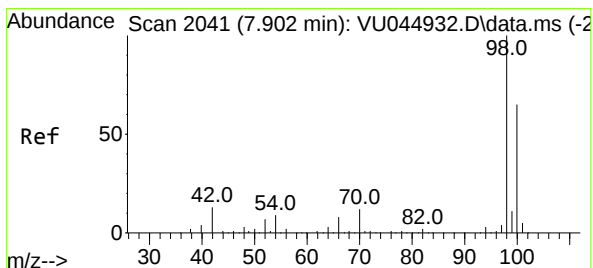
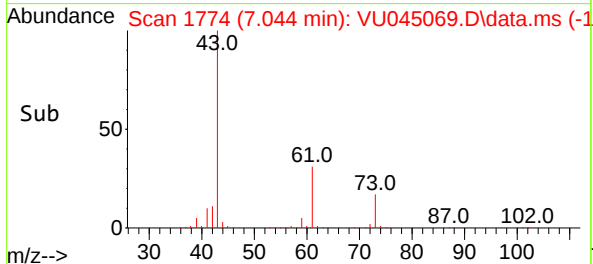
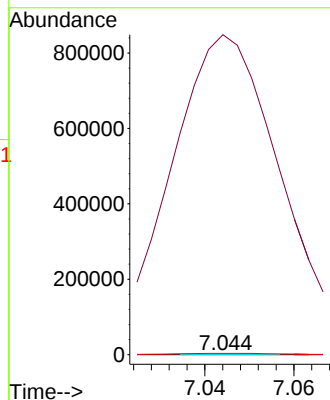
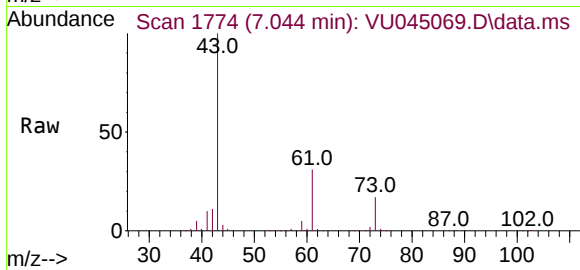
Tgt Ion: 88 Resp: 107

Ion Ratio Lower Upper

88 100

43 1418864.5 25.8 38.6#

58 6184.1 61.3 91.9#



#50

Toluene-d8

Concen: 51.183 ug/l

RT: 7.903 min Scan# 2041

Delta R.T. 0.001 min

Lab File: VU045069.D

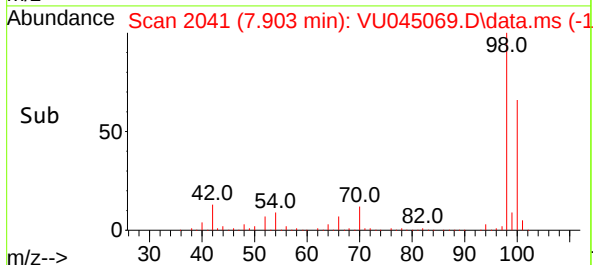
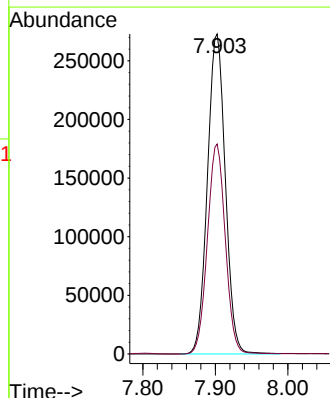
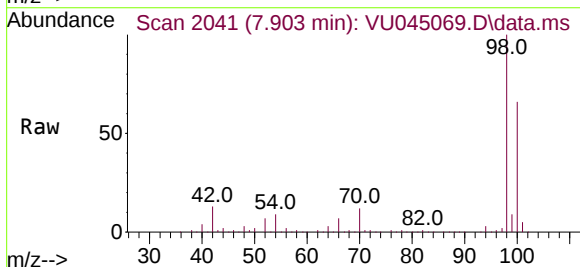
Acq: 01 Oct 2021 13:42

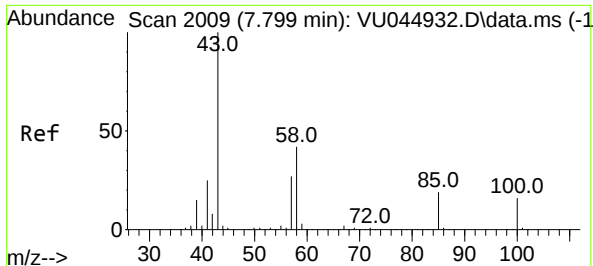
Tgt Ion: 98 Resp: 467929

Ion Ratio Lower Upper

98 100

100 65.6 52.5 78.7

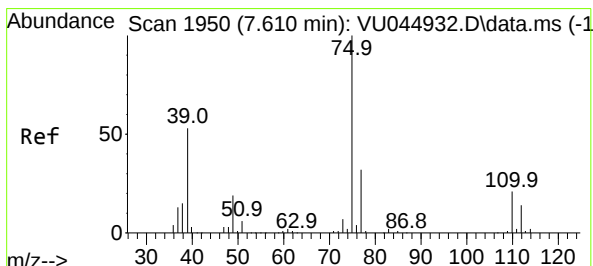
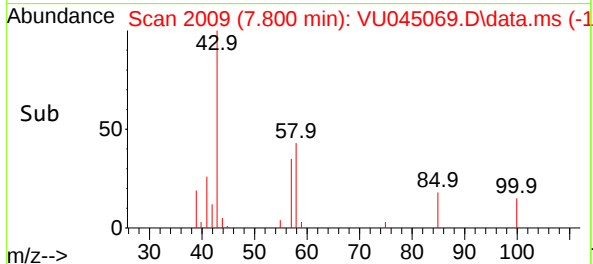
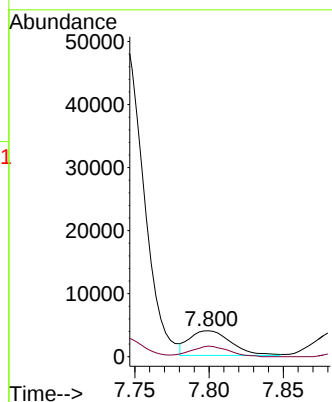
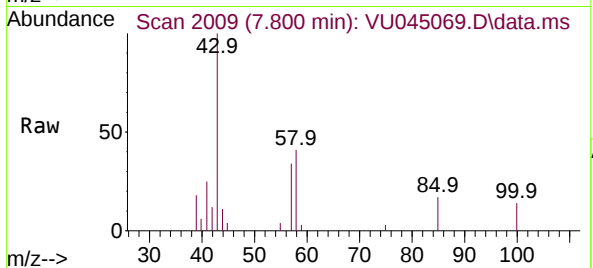




#51  
4-Methyl-2-Pentanone  
Concen: 1.369 ug/l  
RT: 7.800 min Scan# 2009  
Delta R.T. 0.001 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

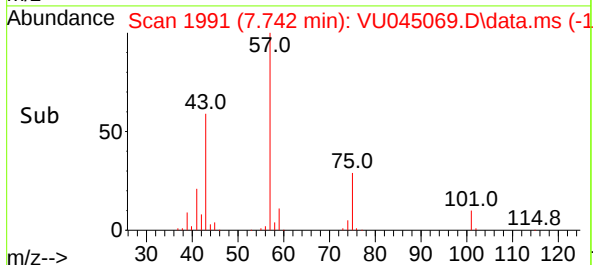
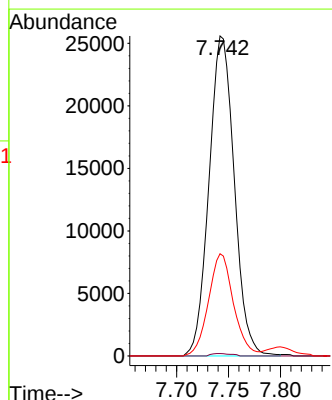
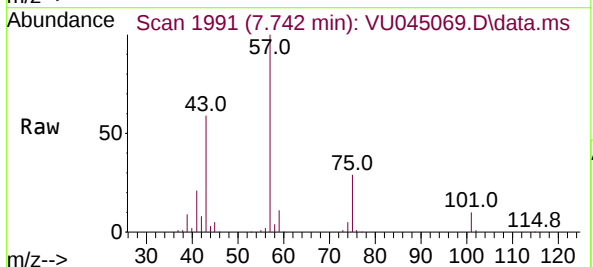
Instrument :  
MSVOA\_U  
ClientSampled :

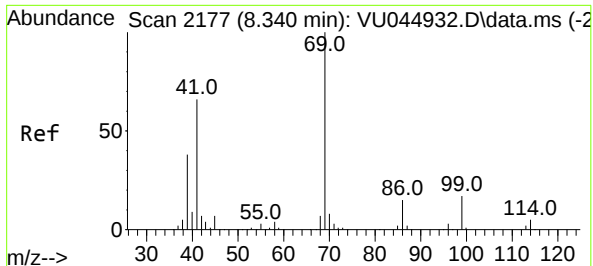
Tgt Ion: 43 Resp: 7611  
Ion Ratio Lower Upper  
43 100  
58 38.7 32.4 48.6



#54  
cis-1,3-Dichloropropene  
Concen: 9.156 ug/l  
RT: 7.742 min Scan# 1991  
Delta R.T. 0.132 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

Tgt Ion: 75 Resp: 43208  
Ion Ratio Lower Upper  
75 100  
77 0.7 25.0 37.6#  
39 31.9 41.4 62.2#





#56

Ethyl methacrylate

Concen: 1.847 ug/l

RT: 8.472 min Scan# 2218

Delta R.T. 0.132 min

Lab File: VU045069.D

Acq: 01 Oct 2021 13:42

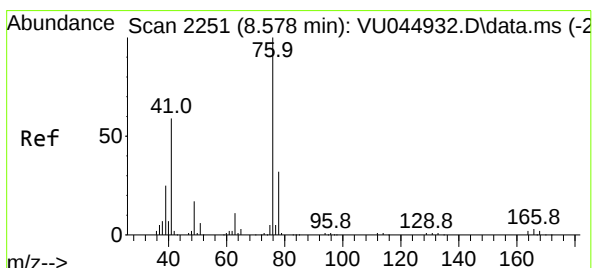
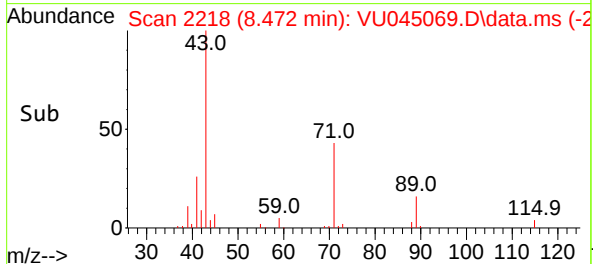
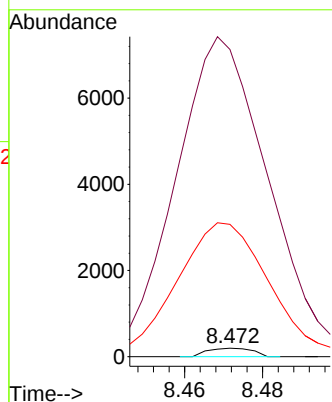
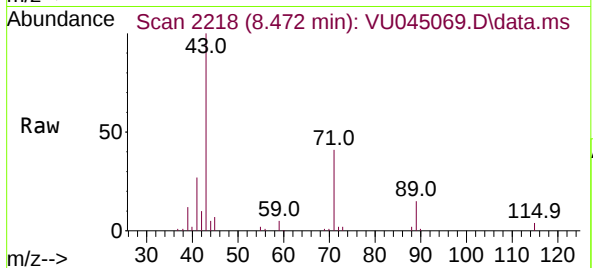
Tgt Ion: 69 Resp: 158

Ion Ratio Lower Upper

69 100

41 7976.6 53.5 80.3#

39 3283.5 31.1 46.7#



#57

1,3-Dichloropropane

Concen: 5.389 ug/l

RT: 8.732 min Scan# 2299

Delta R.T. 0.154 min

Lab File: VU045069.D

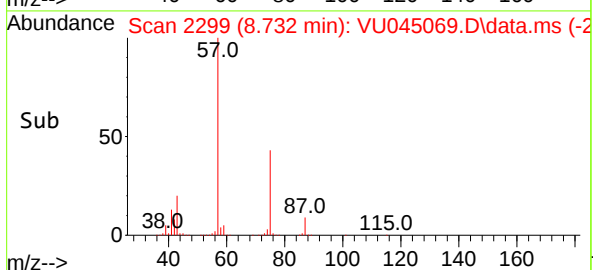
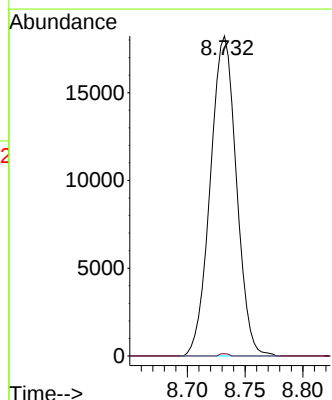
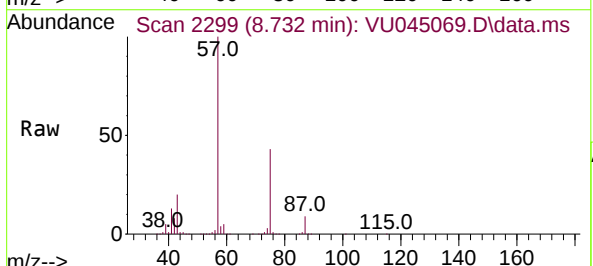
Acq: 01 Oct 2021 13:42

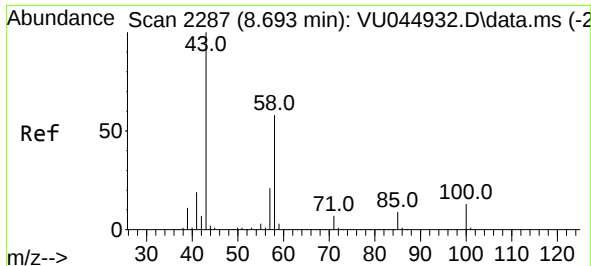
Tgt Ion: 76 Resp: 28652

Ion Ratio Lower Upper

76 100

78 0.2 25.7 38.5#

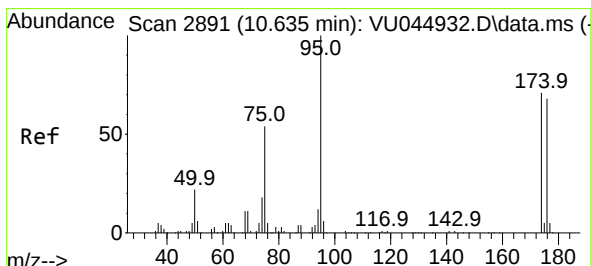
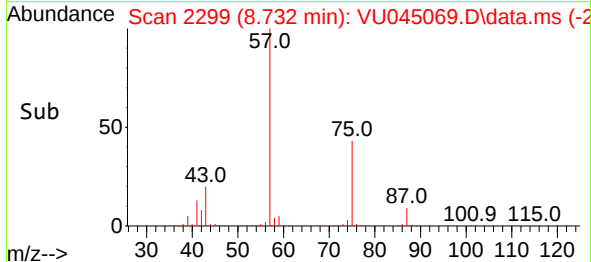
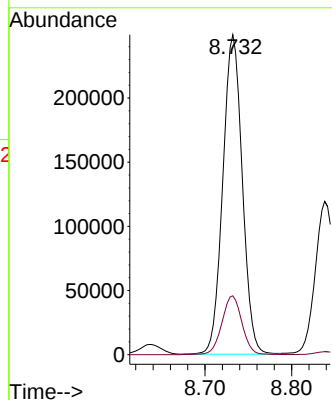
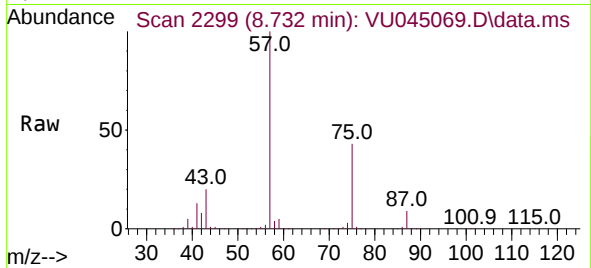




#59  
2-Hexanone  
Concen: 86.004 ug/l  
RT: 8.732 min Scan# 2299  
Delta R.T. 0.039 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

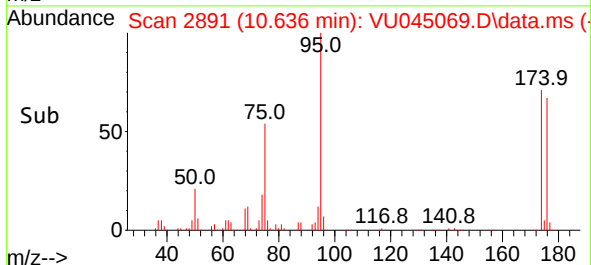
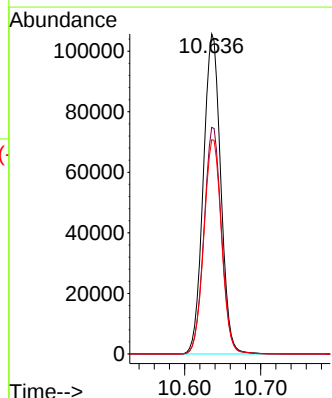
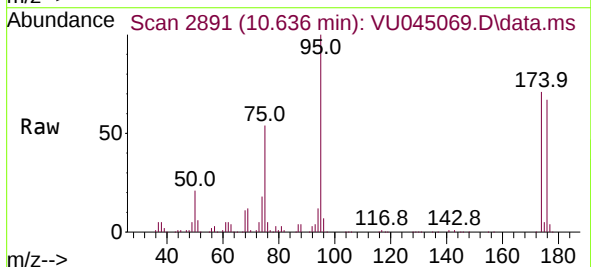
Instrument :  
MSVOA\_U  
ClientSampleId :

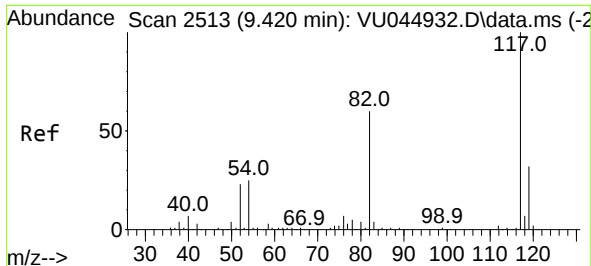
Tgt Ion: 43 Resp: 389301  
Ion Ratio Lower Upper  
43 100  
58 19.0 28.0 84.0#



#62  
4-Bromofluorobenzene  
Concen: 44.544 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. 0.001 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

Tgt Ion: 95 Resp: 168129  
Ion Ratio Lower Upper  
95 100  
174 71.2 0.0 146.6  
176 68.0 0.0 141.2

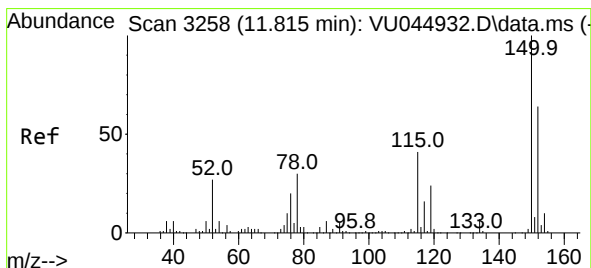
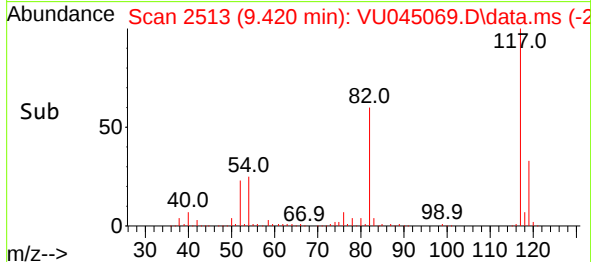
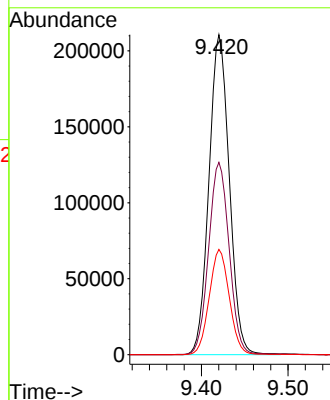
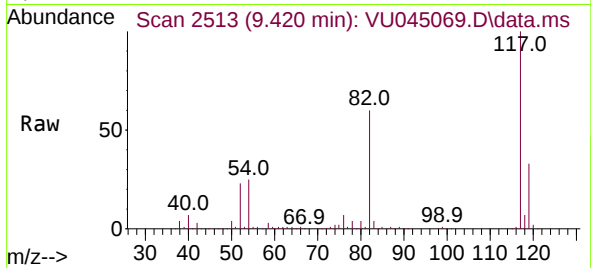




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.420 min Scan# 2513  
Delta R.T. 0.000 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

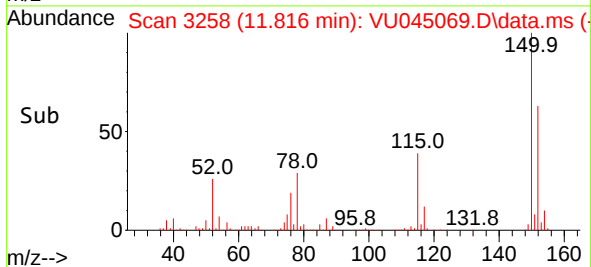
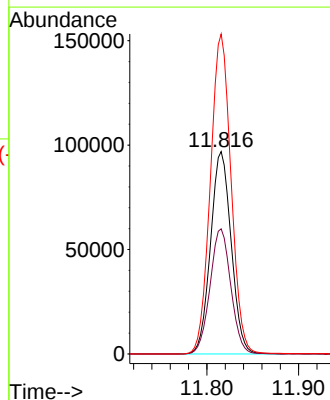
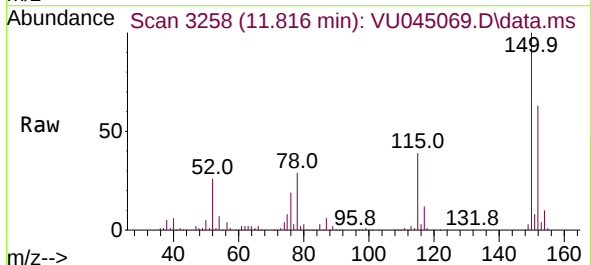
Instrument :  
MSVOA\_U  
ClientSampled :

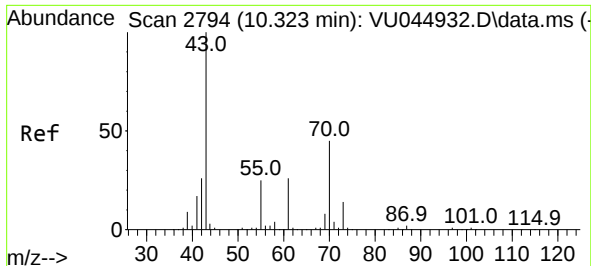
Tgt Ion:117 Resp: 344161  
Ion Ratio Lower Upper  
117 100  
82 60.0 47.8 71.8  
119 32.9 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.816 min Scan# 3258  
Delta R.T. 0.001 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

Tgt Ion:152 Resp: 151674  
Ion Ratio Lower Upper  
152 100  
115 62.3 43.5 130.7  
150 158.1 0.0 350.0

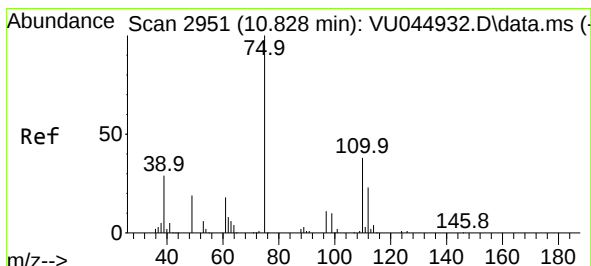
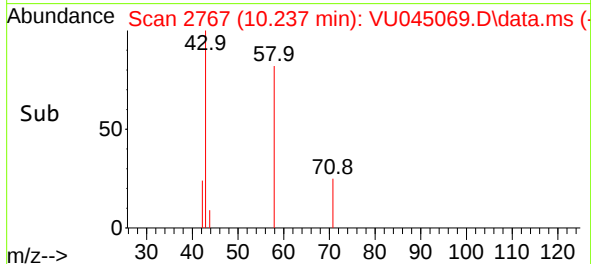
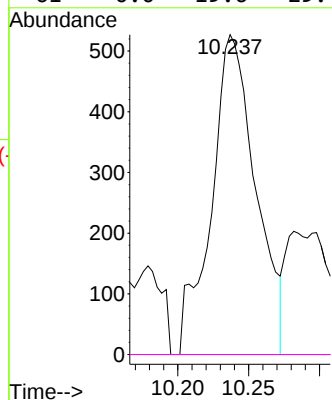
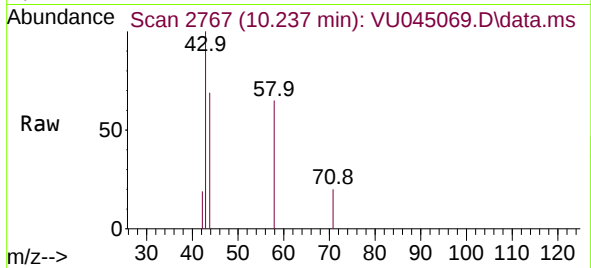




#74  
N-amy1 acetate  
Concen: 0.202 ug/l  
RT: 10.237 min Scan# 2767  
Delta R.T. -0.086 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

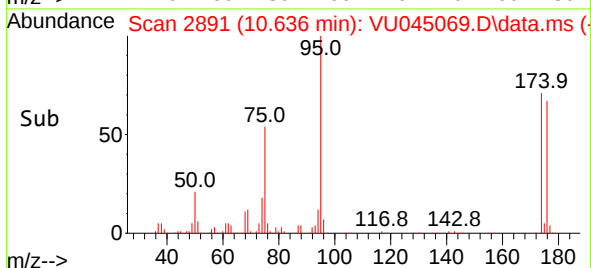
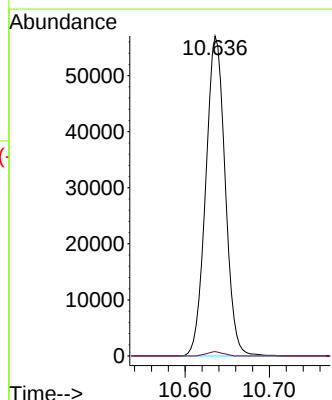
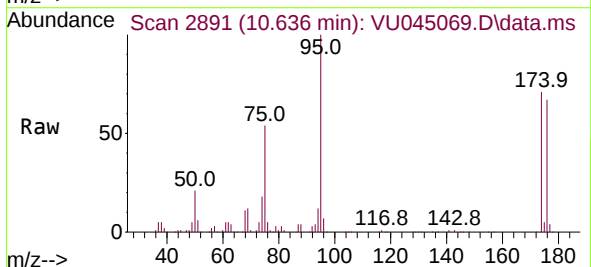
Instrument :  
MSVOA\_U  
ClientSampled :

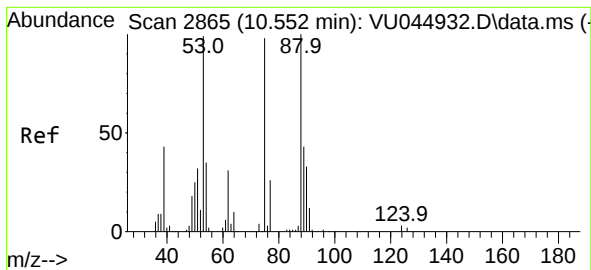
|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 1151     |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 70          | 0.0 35.1 52.7# |
| 55          | 0.0 20.5 30.7# |
| 61          | 0.0 19.6 29.4# |



#76  
1,2,3-Trichloropropane  
Concen: 20.690 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. -0.192 min  
Lab File: VU045069.D  
Acq: 01 Oct 2021 13:42

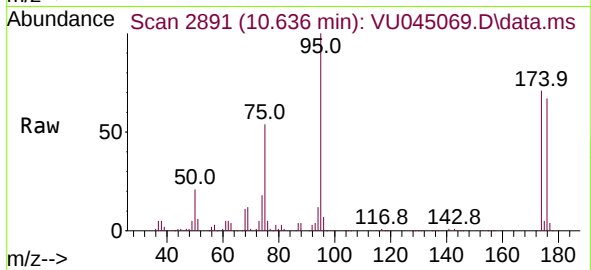
|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 91534    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 77          | 1.1 17.9 53.7# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 57.418 ug/l  
 RT: 10.636 min Scan# 2891  
 Delta R.T. 0.084 min  
 Lab File: VU045069.D  
 Acq: 01 Oct 2021 13:42

Instrument :  
 MSVOA\_U  
 ClientSampleId :



Tgt Ion: 75 Resp: 91534  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 82.0 123.0#  
 89 0.0 34.2 51.4#

