

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU061021\  
 Data File : VU044152.D  
 Acq On : 10 Jun 2021 13:49  
 Operator : SY/MD  
 Sample : M2637-06  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 11 01:19:56 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U060921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 10 05:11:37 2021  
 Response via : Initial Calibration

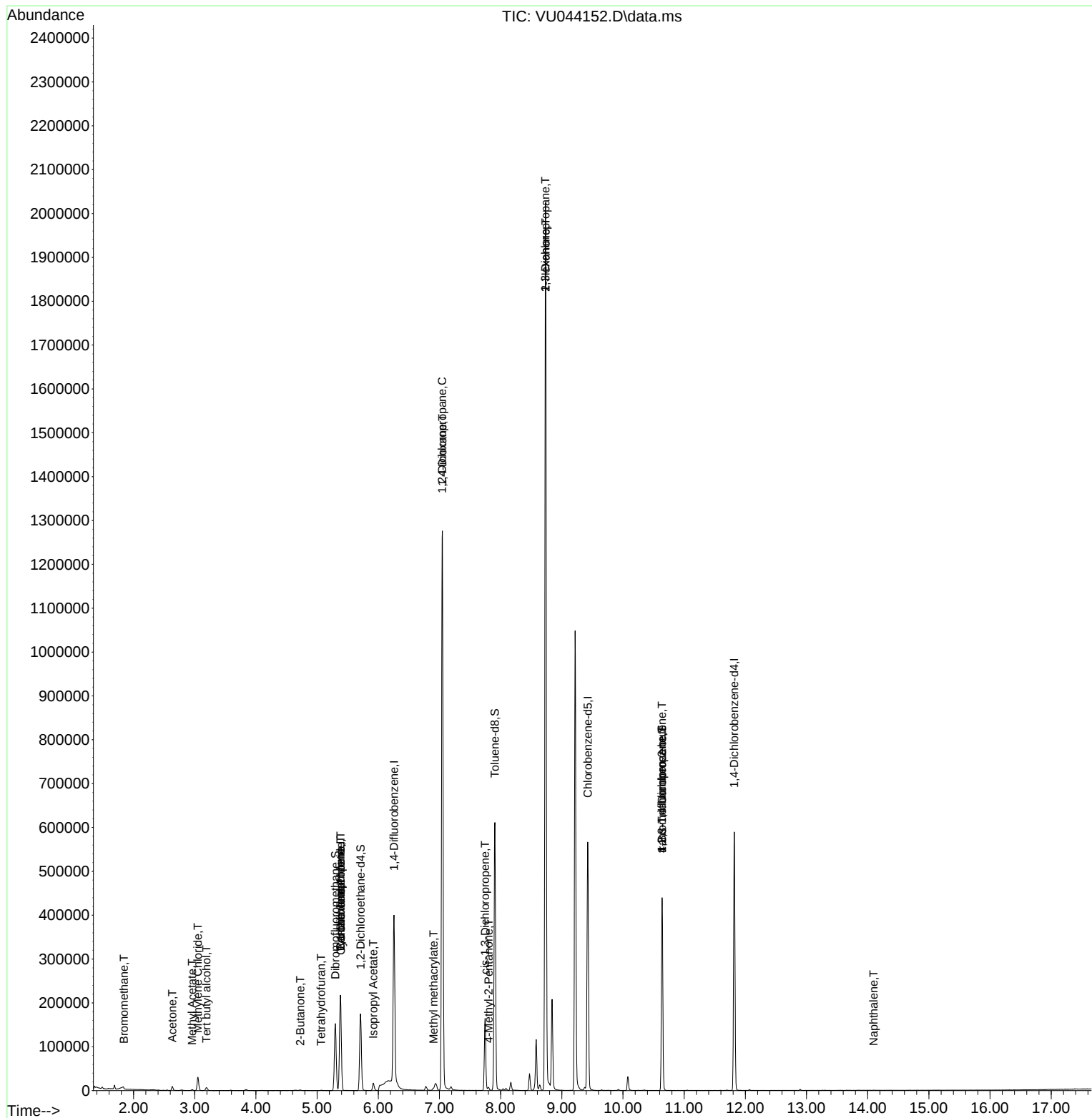
| Compound                      | R.T.   | QIon | Response | Conc      | Units    | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|----------|----------|
| -----                         |        |      |          |           |          |          |
| Internal Standards            |        |      |          |           |          |          |
| 1) Pentafluorobenzene         | 5.382  | 168  | 140991   | 50.000    | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.256  | 114  | 295784   | 50.000    | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 9.424  | 117  | 304482   | 50.000    | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.819 | 152  | 147586   | 50.000    | ug/l     | 0.00     |
| System Monitoring Compounds   |        |      |          |           |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.710  | 65   | 128705   | 57.403    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 114.800% |          |
| 35) Dibromofluoromethane      | 5.298  | 113  | 99349    | 48.285    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 96.560%  |          |
| 50) Toluene-d8                | 7.906  | 98   | 394004   | 49.861    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 99.720%  |          |
| 62) 4-Bromofluorobenzene      | 10.639 | 95   | 152534   | 48.168    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 96.340%  |          |
| Target Compounds              |        |      |          |           |          |          |
|                               |        |      |          |           | Qvalue   |          |
| 3) Chloromethane              | 1.524  | 50   | 715      | Below Cal | #        | 88       |
| 5) Bromomethane               | 1.842  | 94   | 362      | 0.370     | ug/l #   | 63       |
| 6) Chloroethane               | 1.900  | 64   | 295      | Below Cal | #        | 42       |
| 11) Tert butyl alcohol        | 3.189  | 59   | 4486     | 7.438     | ug/l #   | 73       |
| 13) Acrolein                  | 2.491  | 56   | 324      | Below Cal | #        | 69       |
| 16) Acetone                   | 2.633  | 43   | 10457    | 6.951     | ug/l     | 96       |
| 18) Methyl Acetate            | 2.958  | 43   | 2956     | 1.025     | ug/l     | 94       |
| 20) Methylene Chloride        | 3.051  | 84   | 14493    | 6.121     | ug/l     | 94       |
| 25) 2-Butanone                | 4.726  | 43   | 2045     | 1.093     | ug/l     | 97       |
| 29) Tetrahydrofuran           | 5.067  | 42   | 402      | 0.395     | ug/l #   | 68       |
| 31) Cyclohexane               | 5.385  | 56   | 3181     | 1.005     | ug/l #   | 1        |
| 36) 1,1-Dichloropropene       | 5.382  | 75   | 12904    | 3.921     | ug/l #   | 51       |
| 38) Carbon Tetrachloride      | 5.382  | 117  | 15825    | 5.327     | ug/l #   | 16       |
| 43) Isopropyl Acetate         | 5.919  | 43   | 17663    | 3.159     | ug/l     | 99       |
| 45) 1,2-Dichloropropane       | 7.044  | 63   | 1524     | 0.575     | ug/l #   | 43       |
| 48) Methyl methacrylate       | 6.903  | 41   | 6395     | 2.350     | ug/l #   | 11       |
| 49) 1,4-Dioxane               | 7.047  | 88   | 21       | 0.295     | ug/l #   | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.803  | 43   | 4650     | 1.149     | ug/l     | 91       |
| 54) cis-1,3-Dichloropropene   | 7.745  | 75   | 29027    | 7.319     | ug/l #   | 62       |
| 57) 1,3-Dichloropropane       | 8.732  | 76   | 21012    | 4.878     | ug/l #   | 42       |
| 59) 2-Hexanone                | 8.735  | 43   | 269961   | 83.592    | ug/l #   | 48       |
| 76) 1,2,3-Trichloropropane    | 10.639 | 75   | 79398    | 16.046    | ug/l #   | 47       |
| 81) trans-1,4-Dichloro-2-b... | 10.639 | 75   | 79398    | 58.165    | ug/l #   | 13       |
| 95) Naphthalene               | 14.099 | 128  | 612      | 2.891     | ug/l #   | 69       |
| -----                         |        |      |          |           |          |          |

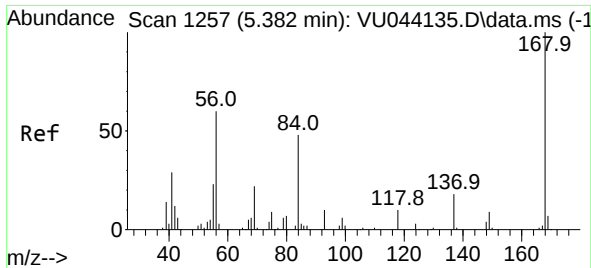
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Jun 10 05:11:37 2021  
Response via : Initial Calibration

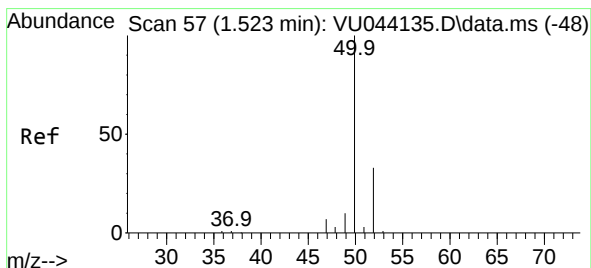
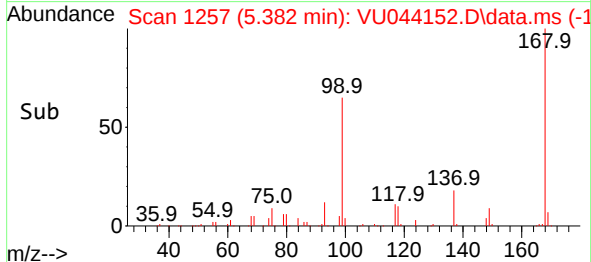
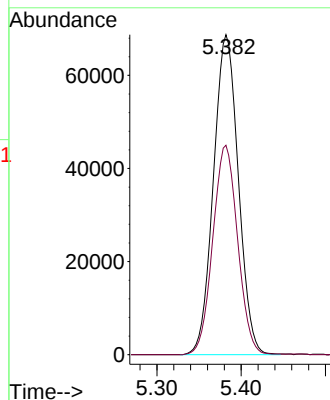
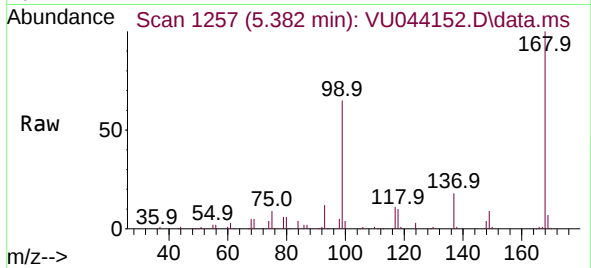




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

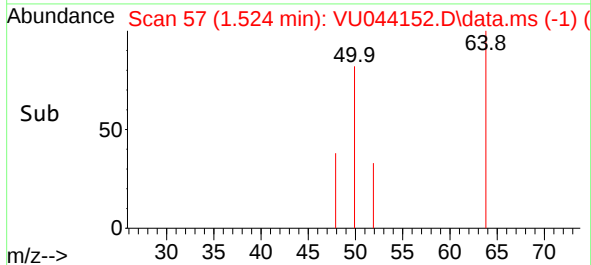
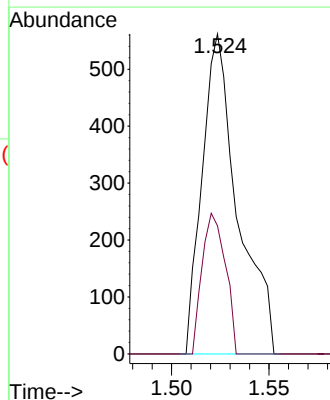
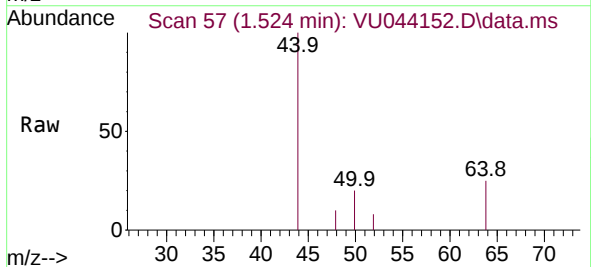
Instrument :  
MSVOA\_U  
ClientSampled :

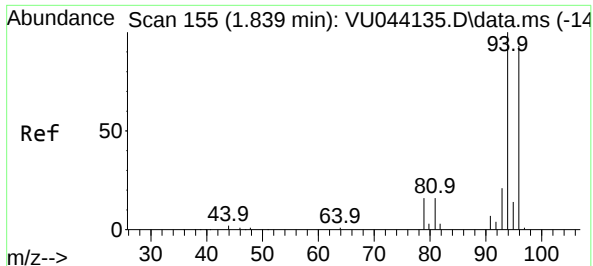
Tgt Ion:168 Resp: 140991  
Ion Ratio Lower Upper  
168 100  
99 65.4 51.3 76.9



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.524 min Scan# 57  
Delta R.T. 0.001 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 50 Resp: 715  
Ion Ratio Lower Upper  
50 100  
52 40.0 26.6 39.8#

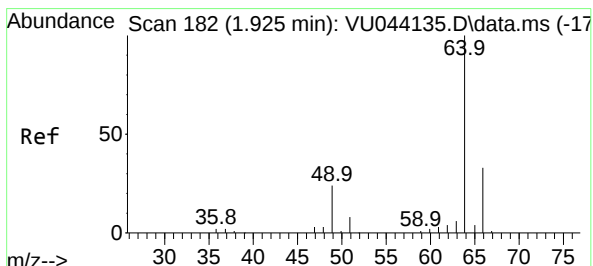
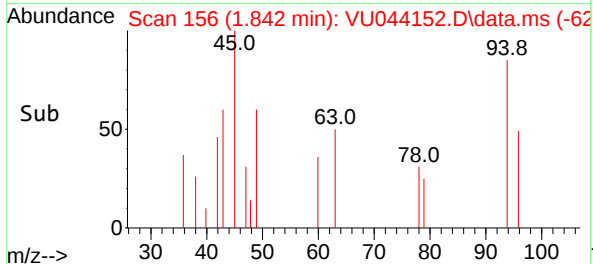
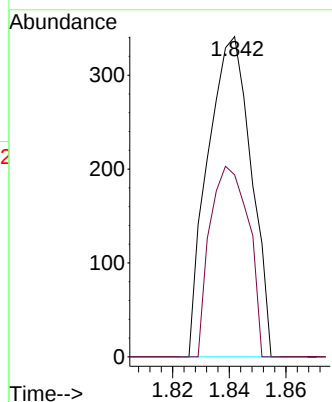
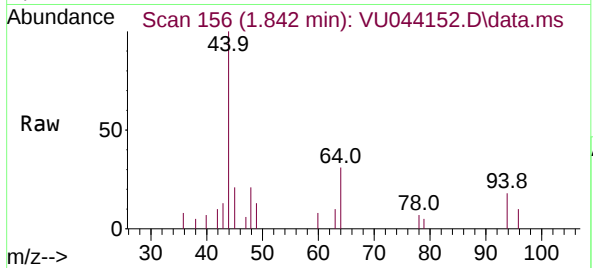




#5  
Bromomethane  
Concen: 0.370 ug/l  
RT: 1.842 min Scan# 156  
Delta R.T. 0.003 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

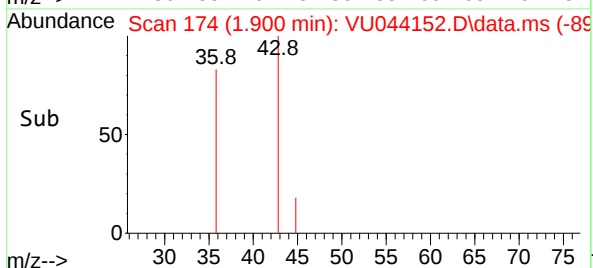
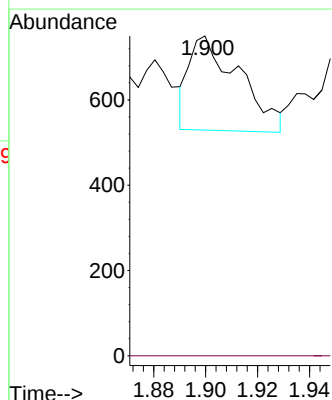
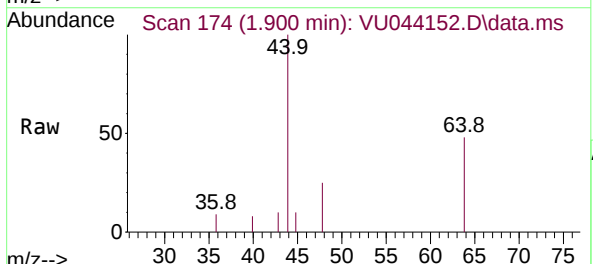
Instrument :  
MSVOA\_U  
ClientSampled :

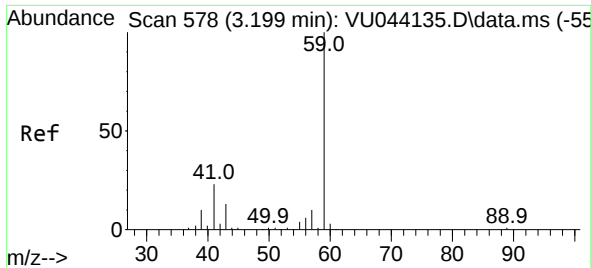
Tgt Ion: 94 Resp: 362  
Ion Ratio Lower Upper  
94 100  
96 56.9 74.1 111.1#



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.900 min Scan# 174  
Delta R.T. -0.025 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 64 Resp: 295  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.1 39.1#

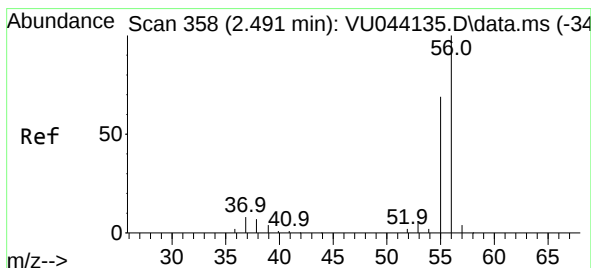
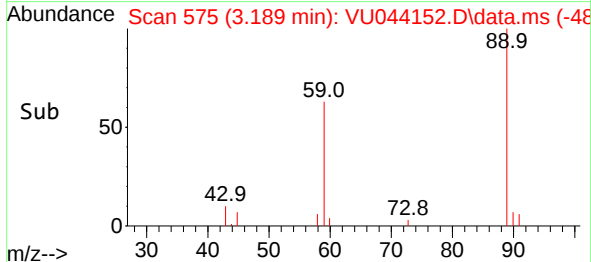
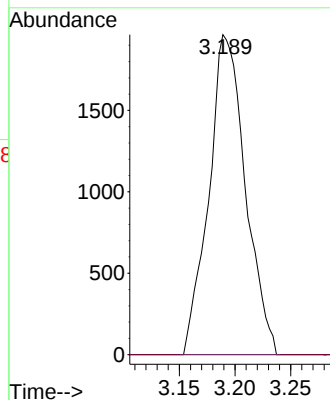
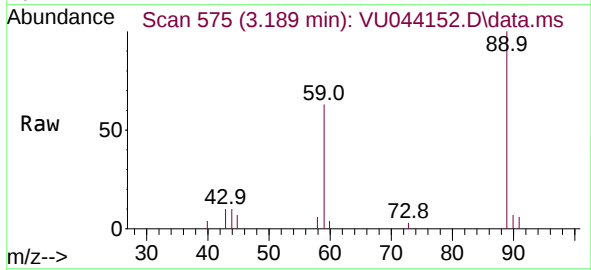




#11  
Tert butyl alcohol  
Concen: 7.438 ug/l  
RT: 3.189 min Scan# 575  
Delta R.T. -0.010 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

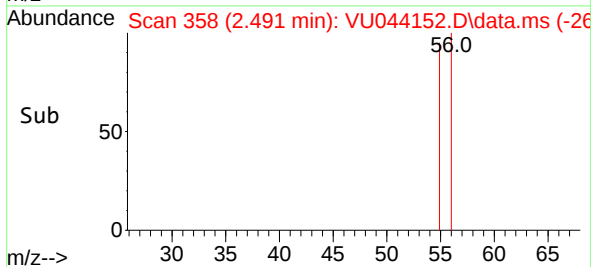
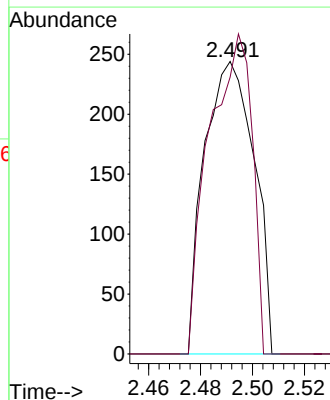
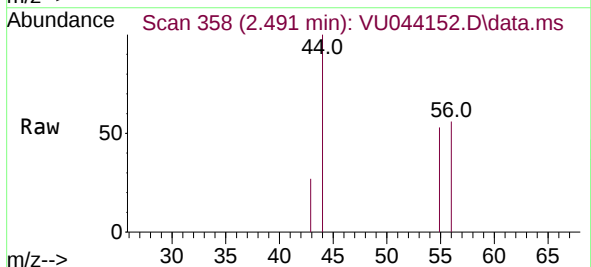
Instrument :  
MSVOA\_U  
ClientSampled :

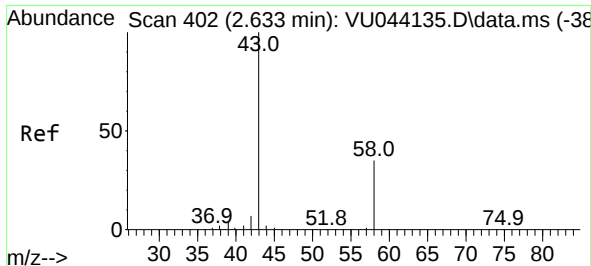
Tgt Ion: 59 Resp: 4486  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.491 min Scan# 358  
Delta R.T. 0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 56 Resp: 324  
Ion Ratio Lower Upper  
56 100  
55 94.4 55.1 82.7#

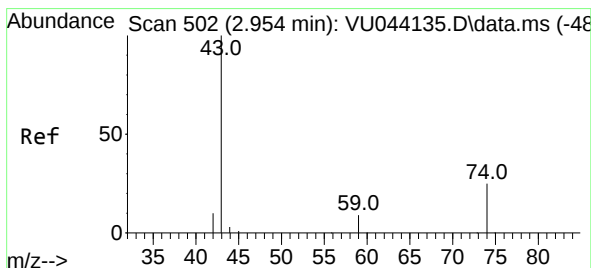
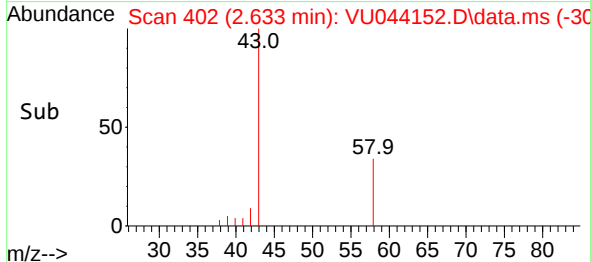
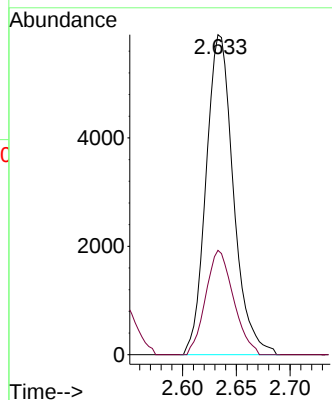
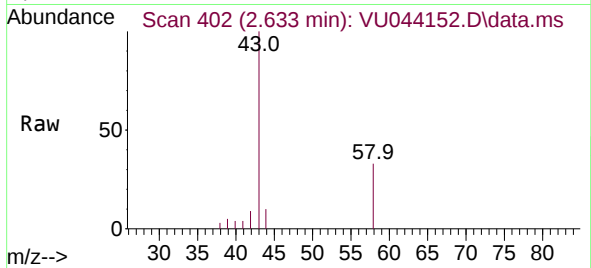




#16  
Acetone  
Concen: 6.951 ug/l  
RT: 2.633 min Scan# 402  
Delta R.T. -0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

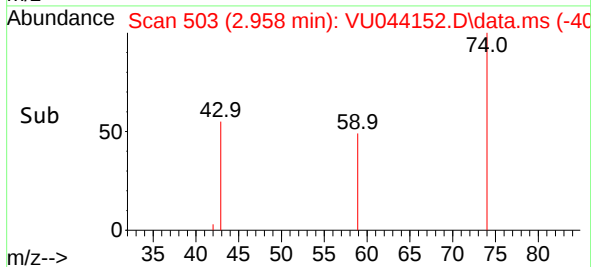
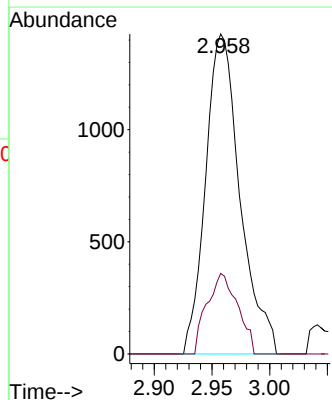
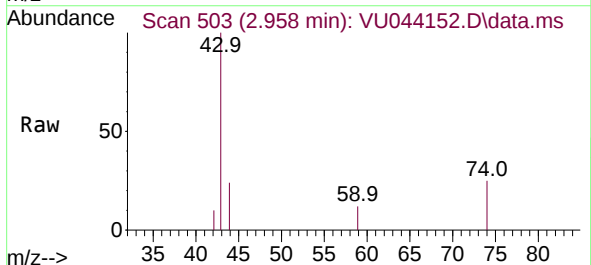
Instrument :  
MSVOA\_U  
ClientSampled :

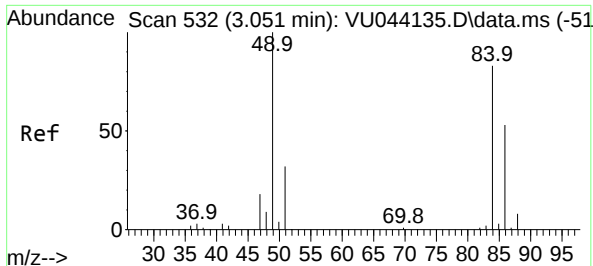
Tgt Ion: 43 Resp: 10457  
Ion Ratio Lower Upper  
43 100  
58 32.6 28.0 42.0



#18  
Methyl Acetate  
Concen: 1.025 ug/l  
RT: 2.958 min Scan# 503  
Delta R.T. 0.004 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 43 Resp: 2956  
Ion Ratio Lower Upper  
43 100  
74 22.4 20.3 30.5

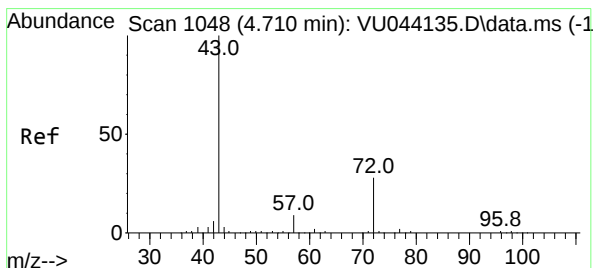
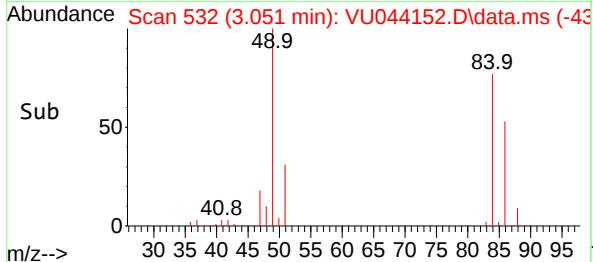
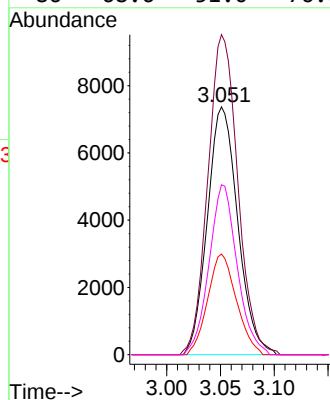
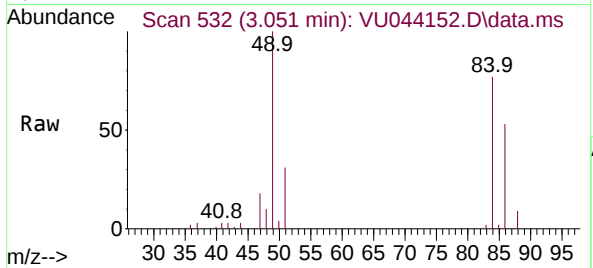




#20  
Methylene Chloride  
Concen: 6.121 ug/l  
RT: 3.051 min Scan# 532  
Delta R.T. -0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

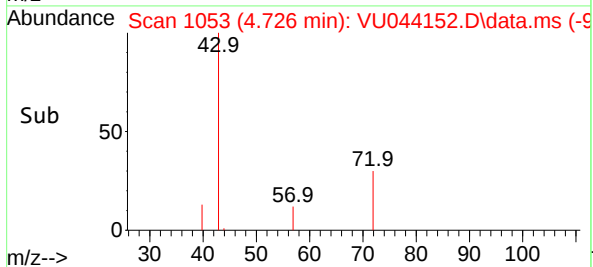
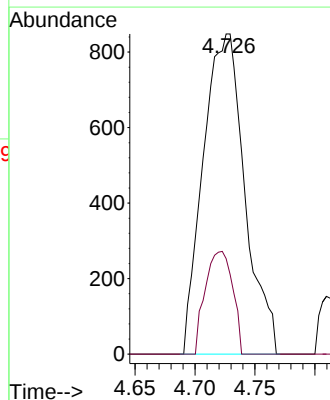
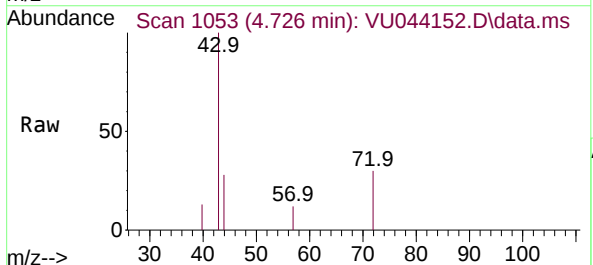
Instrument :  
MSVOA\_U  
ClientSampleId :

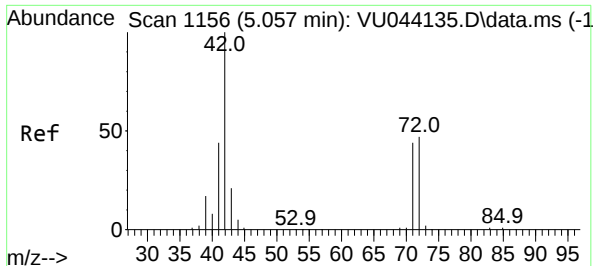
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|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 14493 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 129.1 | 96.9  | 145.3 |
| 51       | 40.6  | 31.0  | 46.6  |
| 86       | 68.6  | 51.0  | 76.6  |



#25  
2-Butanone  
Concen: 1.093 ug/l  
RT: 4.726 min Scan# 1053  
Delta R.T. 0.016 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2045  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 29.8  | 22.6  | 33.8  |





#29

Tetrahydrofuran

Concen: 0.395 ug/l

RT: 5.067 min Scan# 1159

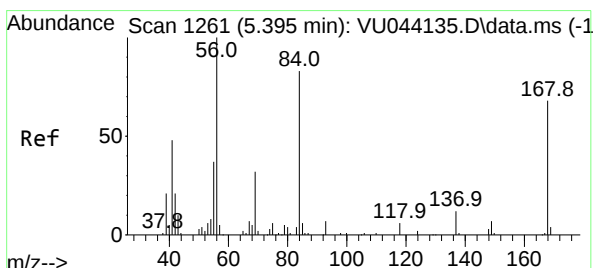
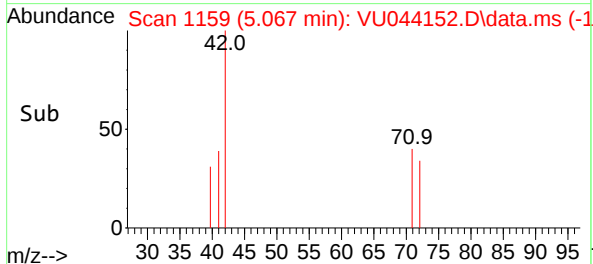
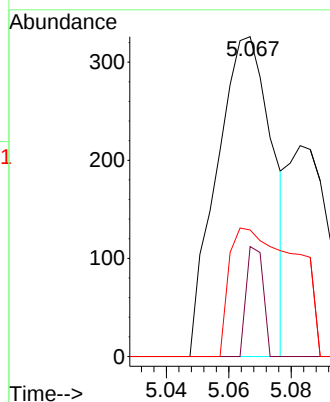
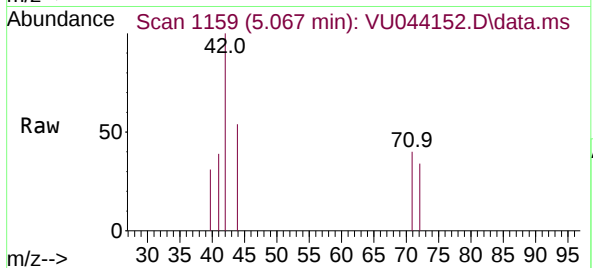
Delta R.T. 0.010 min

Lab File: VU044152.D

Acq: 10 Jun 2021 13:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 402   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 10.4  | 38.6  | 57.8# |
| 71       | 48.8  | 35.5  | 53.3  |

Instrument :  
MSVOA\_U  
ClientSampleId :



#31

Cyclohexane

Concen: 1.005 ug/l

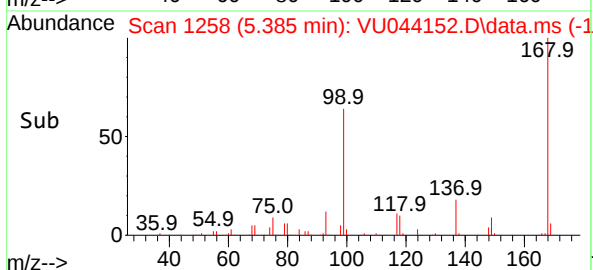
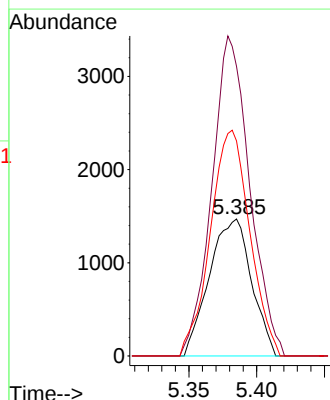
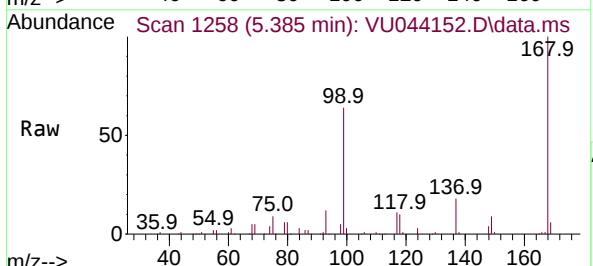
RT: 5.385 min Scan# 1258

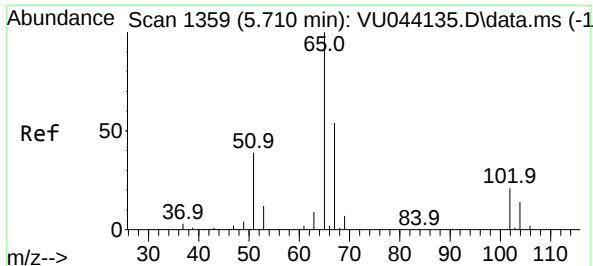
Delta R.T. -0.010 min

Lab File: VU044152.D

Acq: 10 Jun 2021 13:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 3181  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 211.5 | 25.5  | 38.3# |
| 84       | 157.0 | 66.3  | 99.5# |



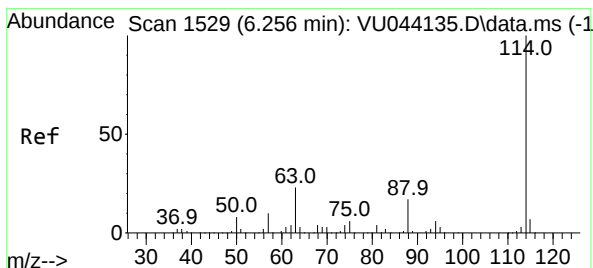
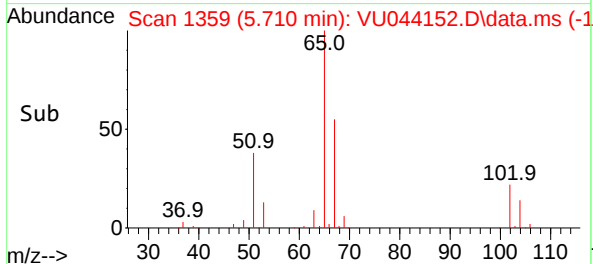
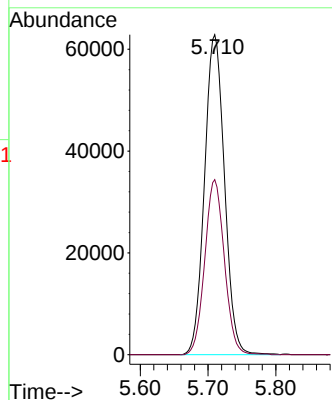
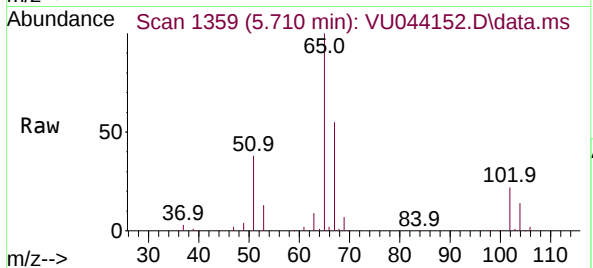


#33

1,2-Dichloroethane-d4  
Concen: 57.403 ug/l  
RT: 5.710 min Scan# 1359  
Delta R.T. -0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Instrument :  
MSVOA\_U  
ClientSampled :

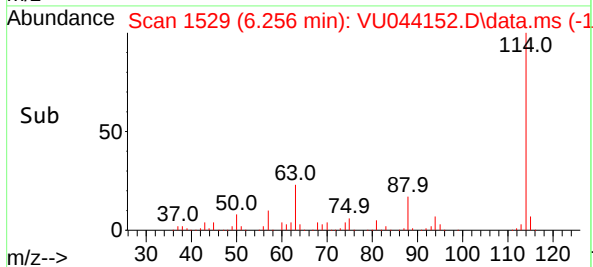
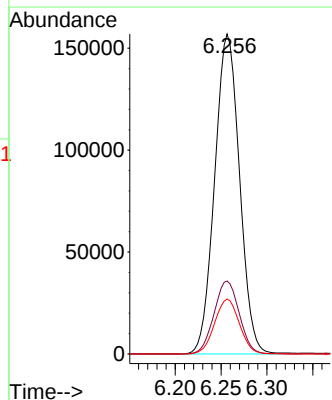
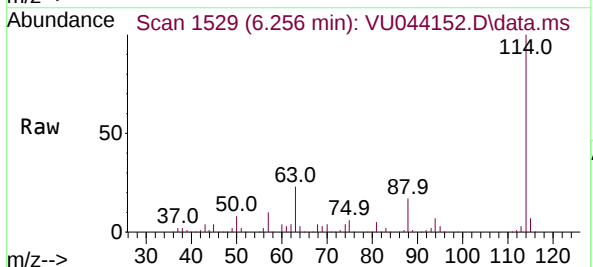
Tgt Ion: 65 Resp: 128705  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 106.6

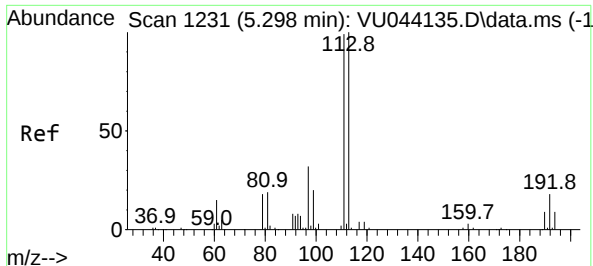


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.256 min Scan# 1529  
Delta R.T. 0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 114 Resp: 295784  
Ion Ratio Lower Upper  
114 100  
63 22.8 0.0 45.8  
88 17.2 0.0 34.0

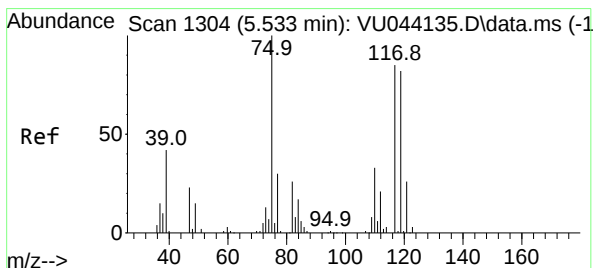
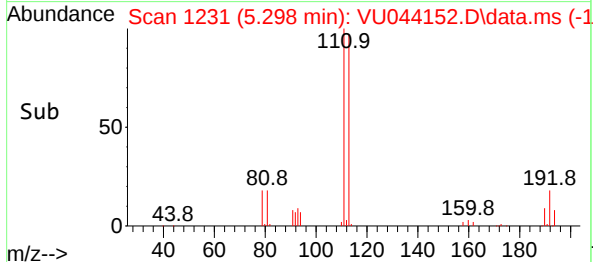
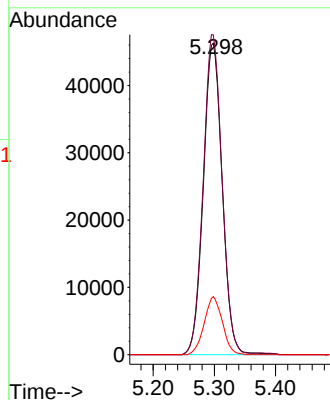
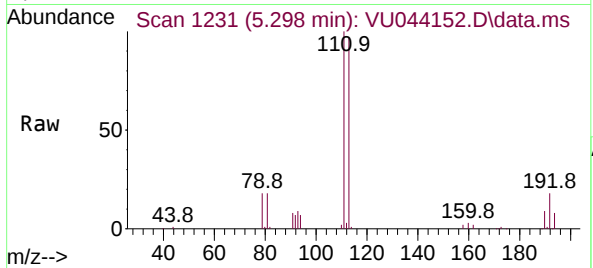




#35  
Dibromofluoromethane  
Concen: 48.285 ug/l  
RT: 5.298 min Scan# 1231  
Delta R.T. 0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

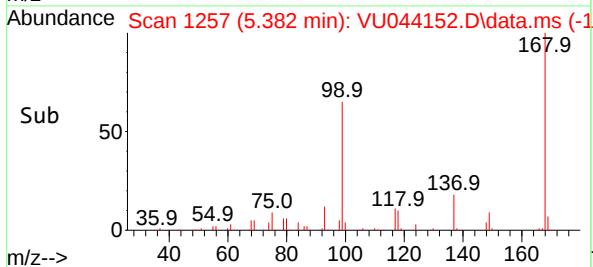
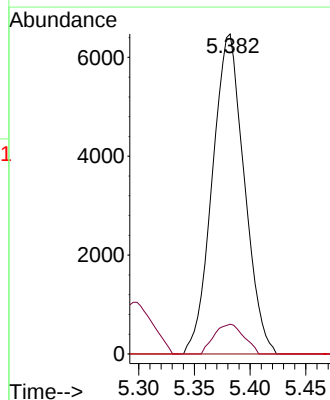
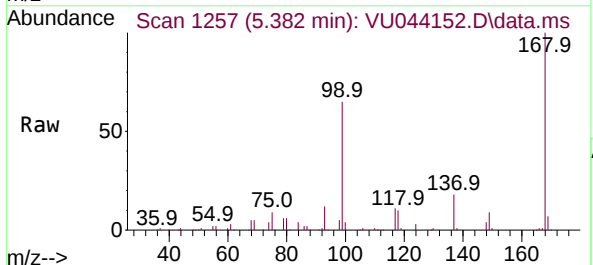
Instrument :  
MSVOA\_U  
ClientSampleId :

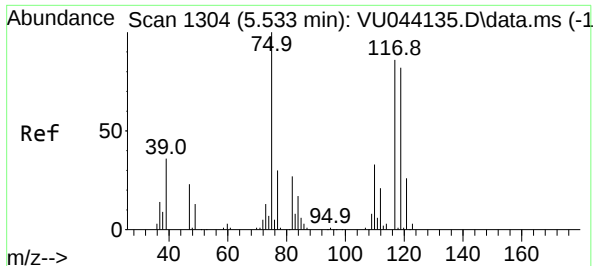
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 99349 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.4 | 81.0  | 121.4 |
| 192      | 17.9  | 14.3  | 21.5  |



#36  
1,1-Dichloropropene  
Concen: 3.921 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.151 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

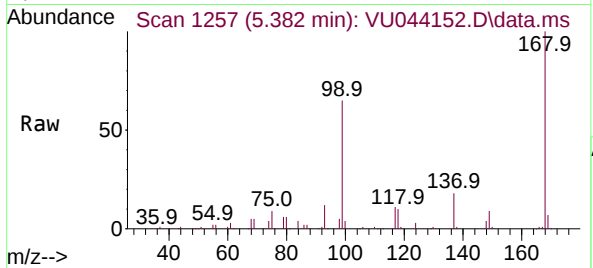
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 12904 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.7   | 16.4  | 49.4# |
| 77       | 0.0   | 24.7  | 37.1# |



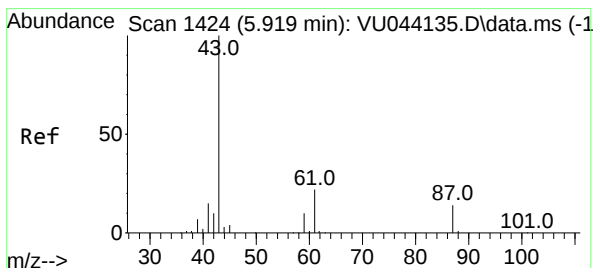
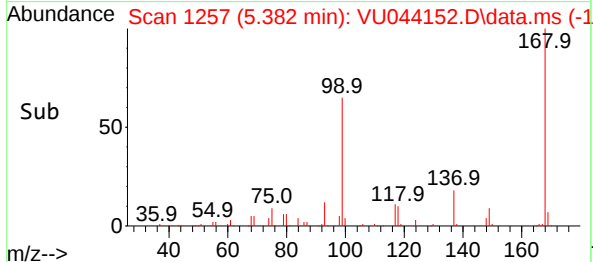
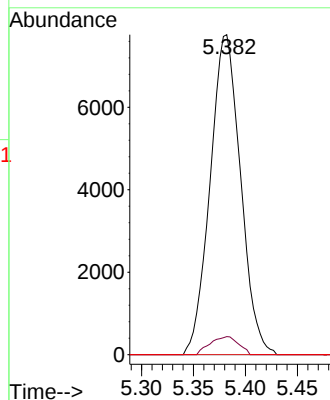


#38  
Carbon Tetrachloride  
Concen: 5.327 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.151 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Instrument :  
MSVOA\_U  
ClientSampleId :

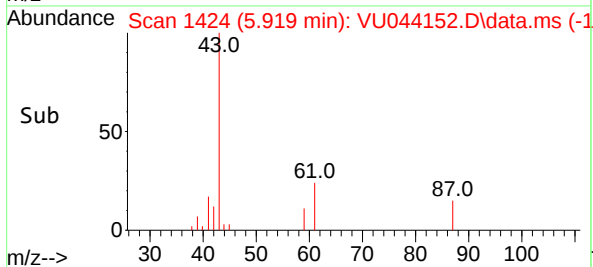
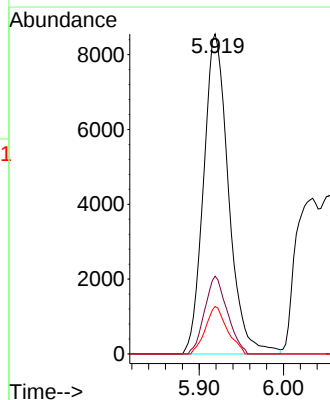
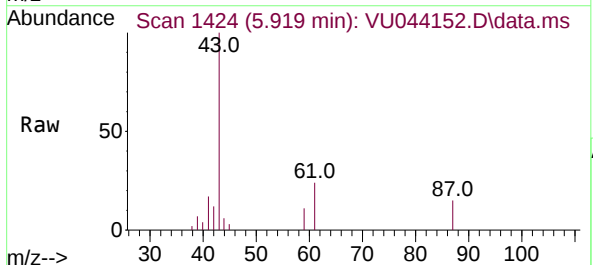


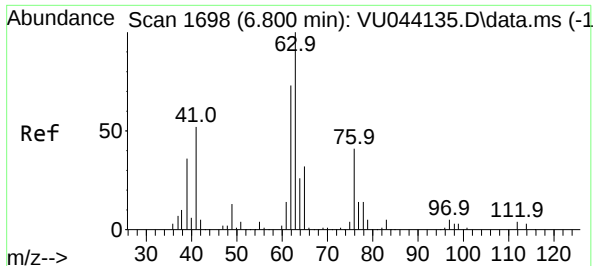
Tgt Ion:117 Resp: 15825  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.6 114.8#  
121 0.0 24.6 36.8#



#43  
Isopropyl Acetate  
Concen: 3.159 ug/l  
RT: 5.919 min Scan# 1424  
Delta R.T. -0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 43 Resp: 17663  
Ion Ratio Lower Upper  
43 100  
61 22.0 17.8 26.8  
87 12.9 11.1 16.7



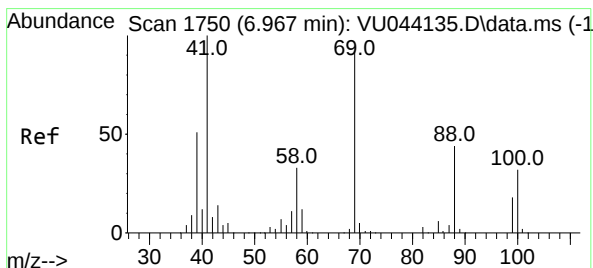
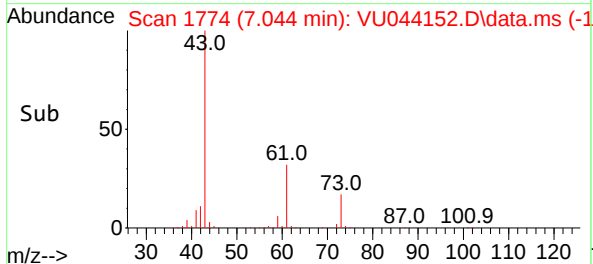
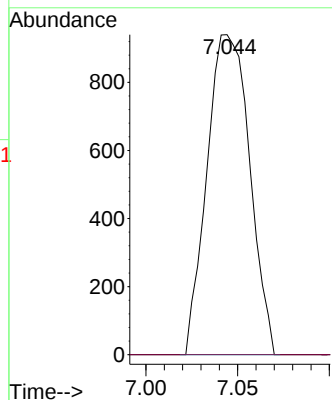
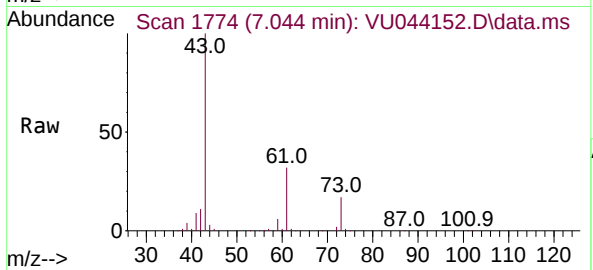


#45

1,2-Dichloropropane  
Concen: 0.575 ug/l  
RT: 7.044 min Scan# 1774  
Delta R.T. 0.244 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Instrument :  
MSVOA\_U  
ClientSampled :

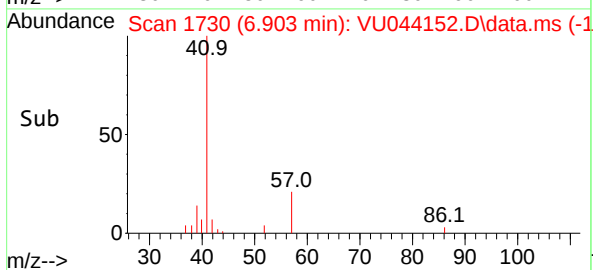
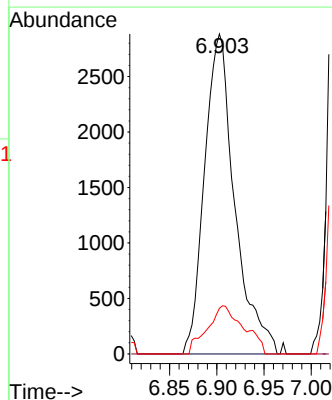
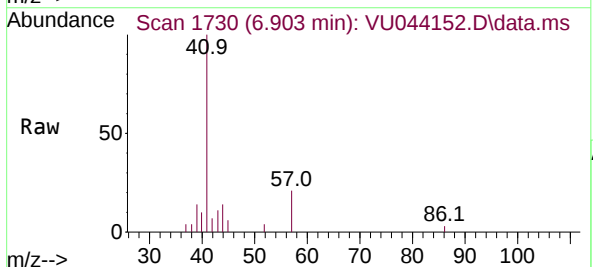
Tgt Ion: 63 Resp: 1524  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.7 38.5#

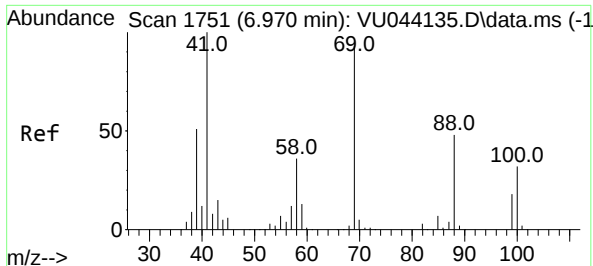


#48

Methyl methacrylate  
Concen: 2.350 ug/l  
RT: 6.903 min Scan# 1730  
Delta R.T. -0.064 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 41 Resp: 6395  
Ion Ratio Lower Upper  
41 100  
69 0.0 74.0 111.0#  
39 0.0 41.5 62.3#





#49

1,4-Dioxane

Concen: 0.295 ug/l

RT: 7.047 min Scan# 1775

Delta R.T. 0.077 min

Lab File: VU044152.D

Acq: 10 Jun 2021 13:49

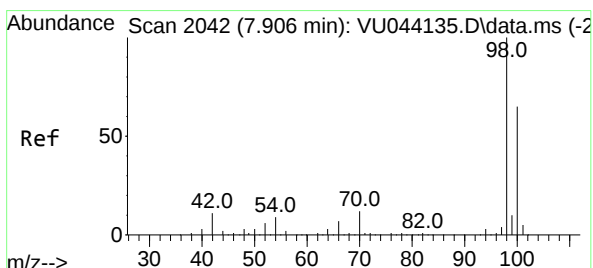
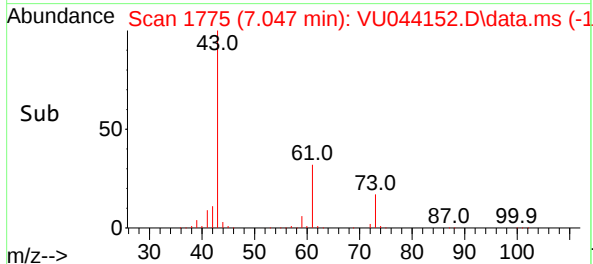
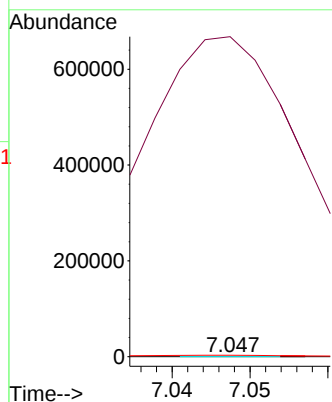
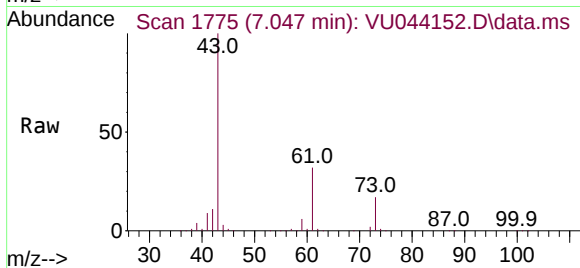
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 5388961.9 23.4 35.0#

58 26333.3 58.1 87.1#



#50

Toluene-d8

Concen: 49.861 ug/l

RT: 7.906 min Scan# 2042

Delta R.T. -0.000 min

Lab File: VU044152.D

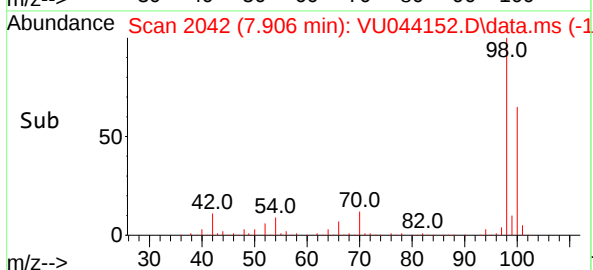
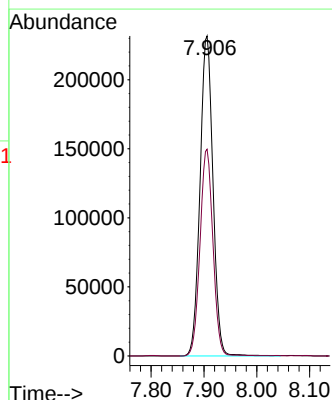
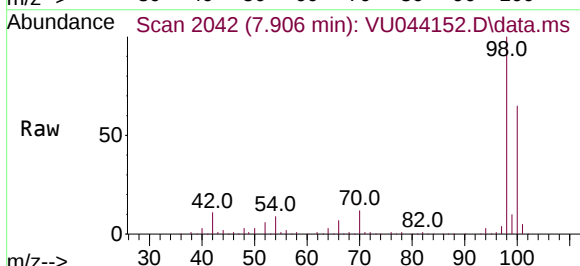
Acq: 10 Jun 2021 13:49

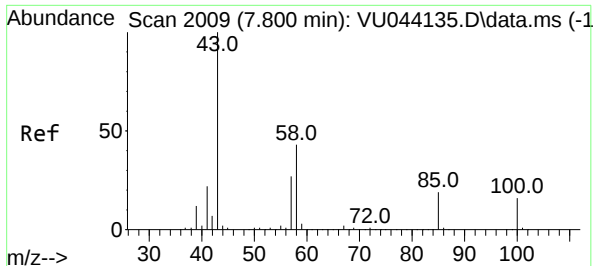
Tgt Ion: 98 Resp: 394004

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.4

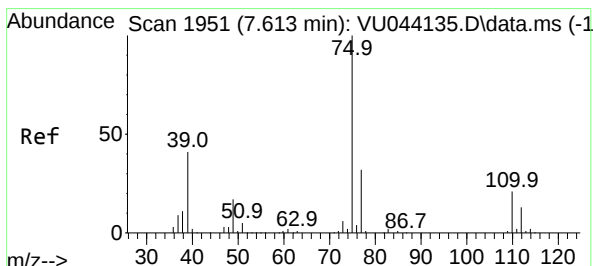
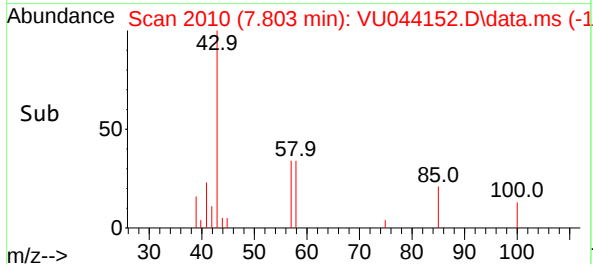
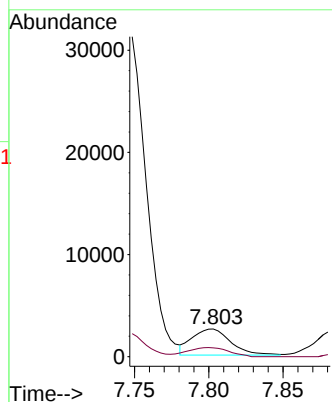
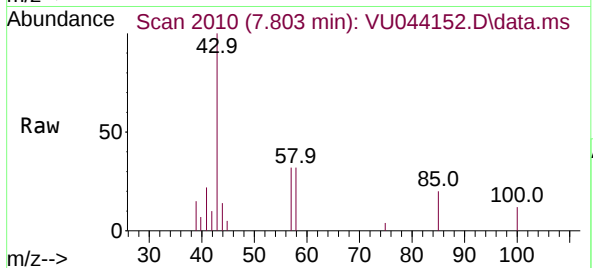




#51  
4-Methyl-2-Pentanone  
Concen: 1.149 ug/l  
RT: 7.803 min Scan# 2010  
Delta R.T. 0.003 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

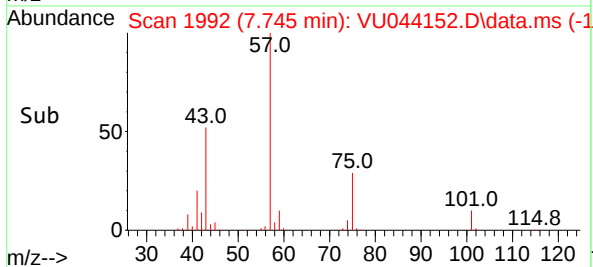
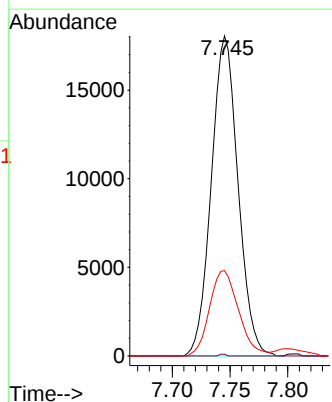
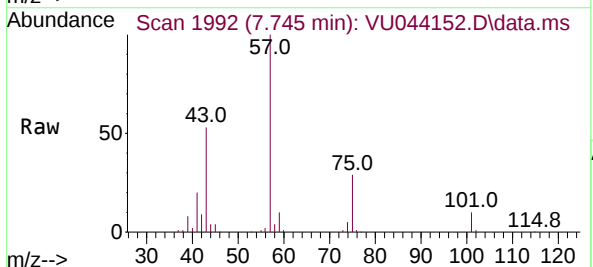
Instrument :  
MSVOA\_U  
ClientSampled :

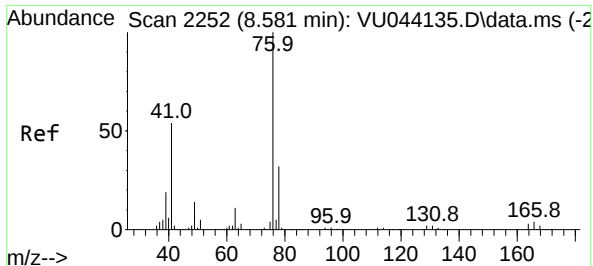
Tgt Ion: 43 Resp: 4650  
Ion Ratio Lower Upper  
43 100  
58 37.2 34.5 51.7



#54  
cis-1,3-Dichloropropene  
Concen: 7.319 ug/l  
RT: 7.745 min Scan# 1992  
Delta R.T. 0.132 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 75 Resp: 29027  
Ion Ratio Lower Upper  
75 100  
77 0.6 25.9 38.9#  
39 26.6 33.2 49.8#



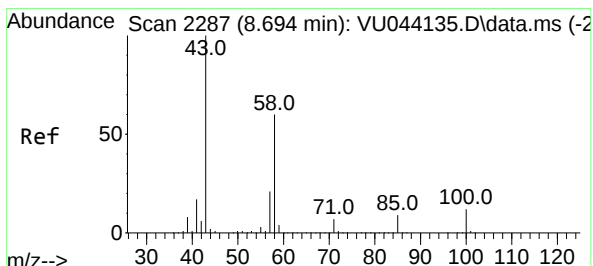
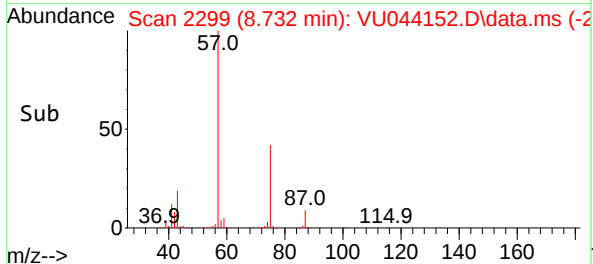
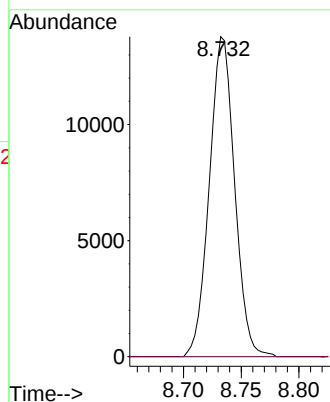
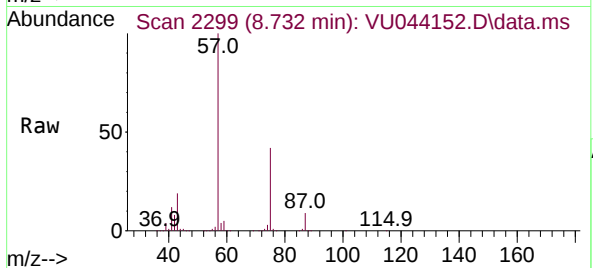


#57

1,3-Dichloropropane  
Concen: 4.878 ug/l  
RT: 8.732 min Scan# 2299  
Delta R.T. 0.151 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Instrument :  
MSVOA\_U  
ClientSampled :

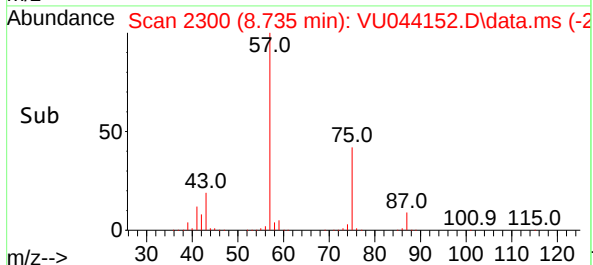
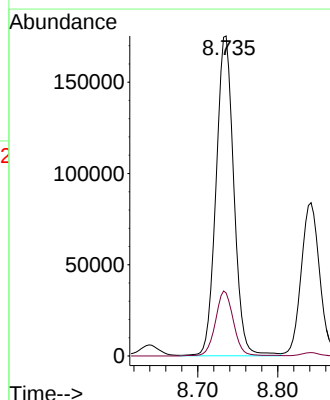
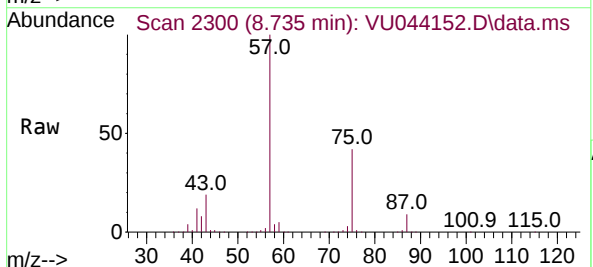
Tgt Ion: 76 Resp: 21012  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.9 38.9#

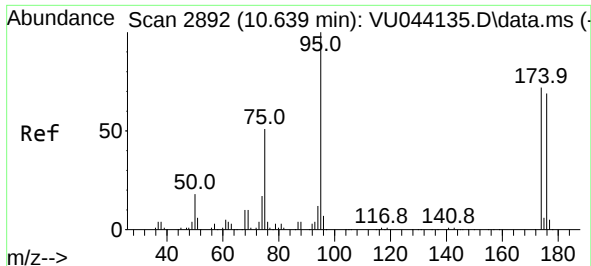


#59

2-Hexanone  
Concen: 83.592 ug/l  
RT: 8.735 min Scan# 2300  
Delta R.T. 0.041 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 43 Resp: 269961  
Ion Ratio Lower Upper  
43 100  
58 20.7 30.0 90.1#

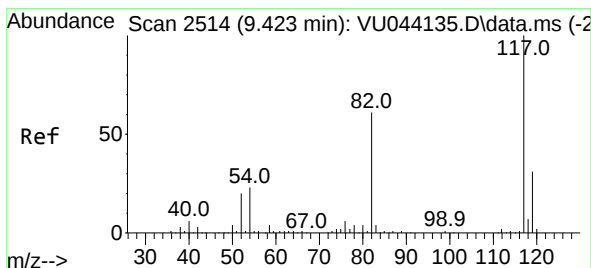
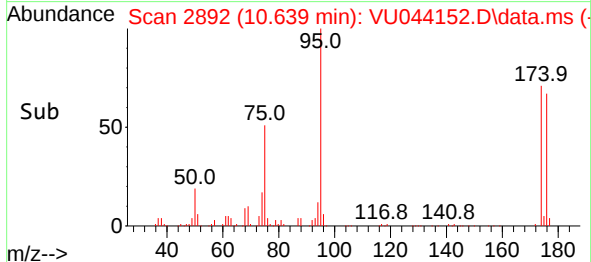
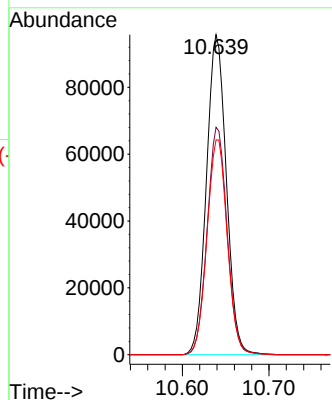
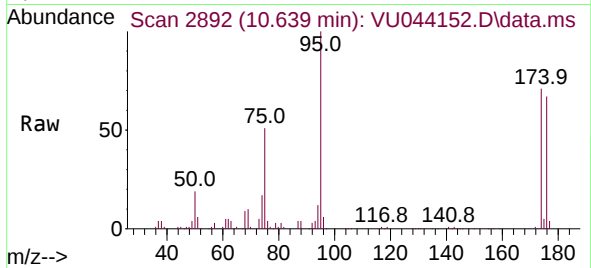




#62  
4-Bromofluorobenzene  
Concen: 48.168 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

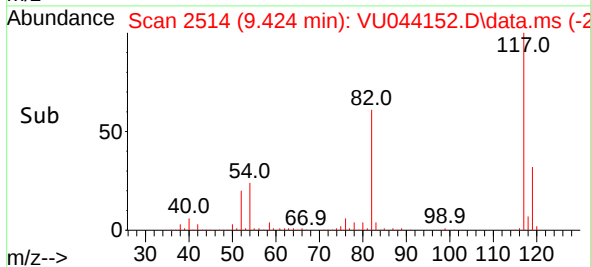
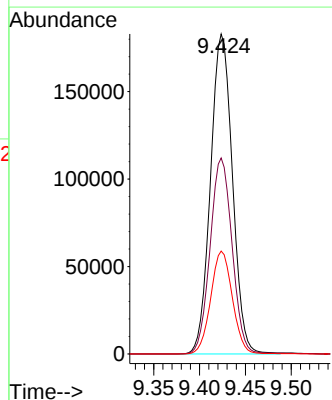
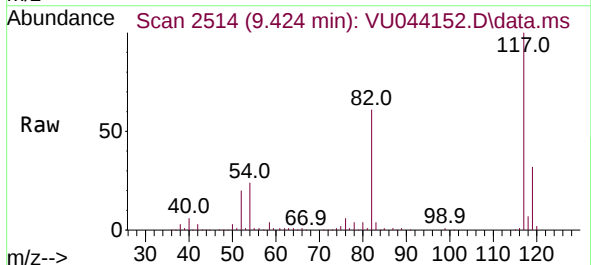
Instrument :  
MSVOA\_U  
ClientSampleId :

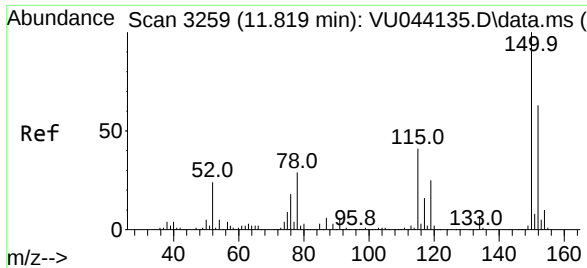
Tgt Ion: 95 Resp: 152534  
Ion Ratio Lower Upper  
95 100  
174 71.4 0.0 144.4  
176 68.4 0.0 138.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.424 min Scan# 2514  
Delta R.T. 0.000 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion: 117 Resp: 304482  
Ion Ratio Lower Upper  
117 100  
82 61.2 48.8 73.2  
119 32.2 25.0 37.6

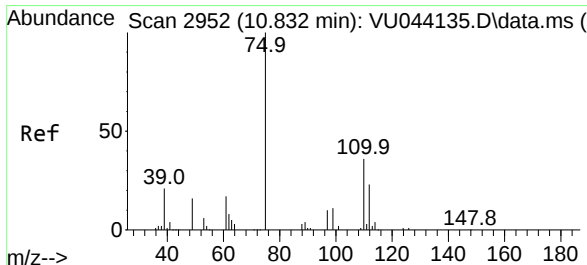
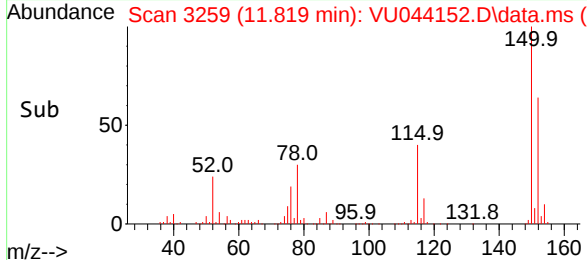
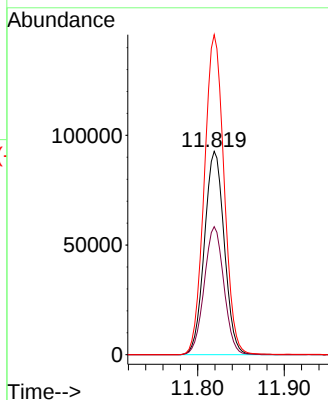
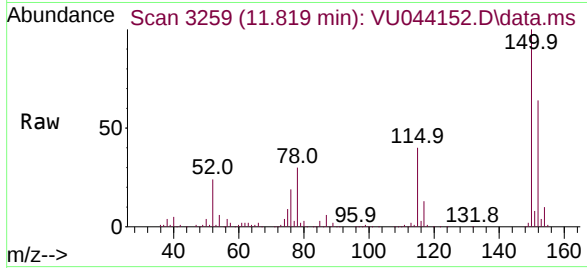




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.819 min Scan# 3259  
 Delta R.T. 0.000 min  
 Lab File: VU044152.D  
 Acq: 10 Jun 2021 13:49

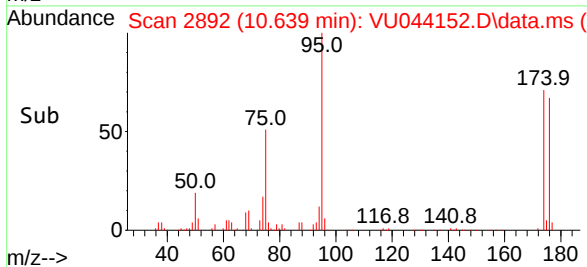
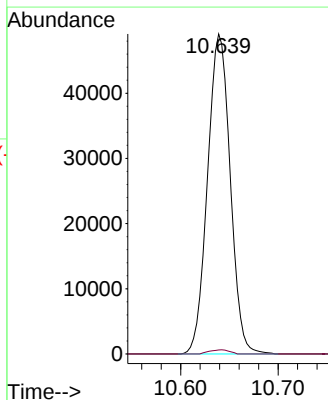
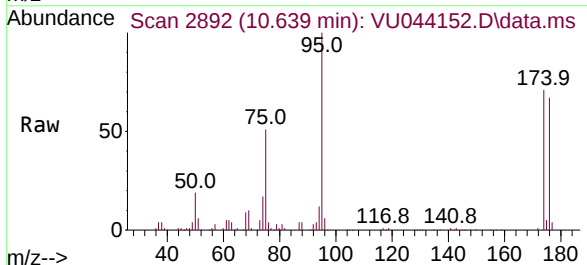
Instrument :  
 MSVOA\_U  
 ClientSampled :

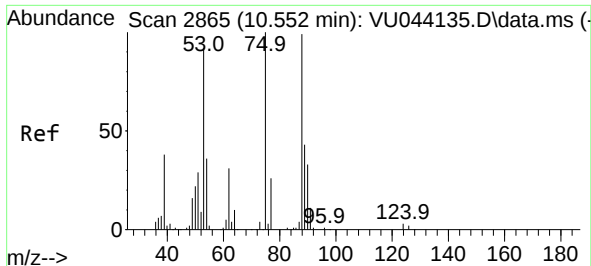
Tgt Ion:152 Resp: 147586  
 Ion Ratio Lower Upper  
 152 100  
 115 62.3 43.8 131.3  
 150 156.6 0.0 350.6



#76  
 1,2,3-Trichloropropane  
 Concen: 16.046 ug/l  
 RT: 10.639 min Scan# 2892  
 Delta R.T. -0.193 min  
 Lab File: VU044152.D  
 Acq: 10 Jun 2021 13:49

Tgt Ion: 75 Resp: 79398  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 14.9 44.5#

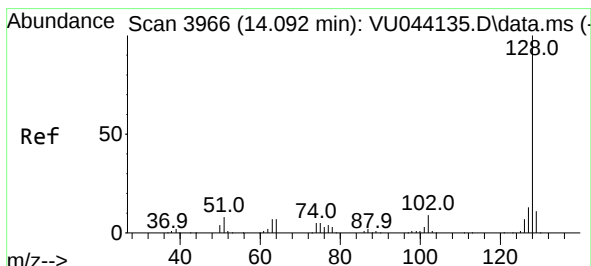
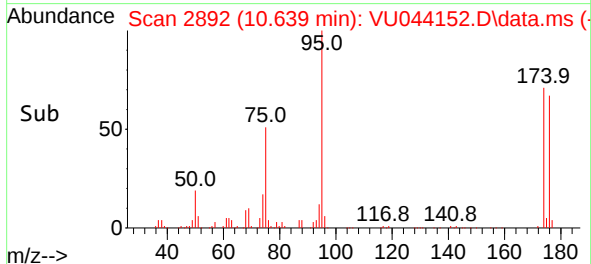
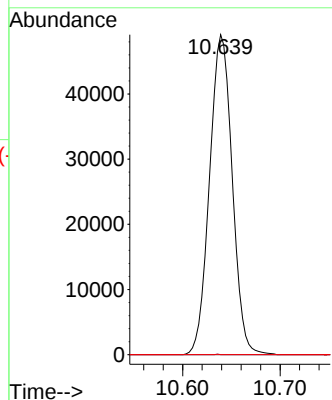
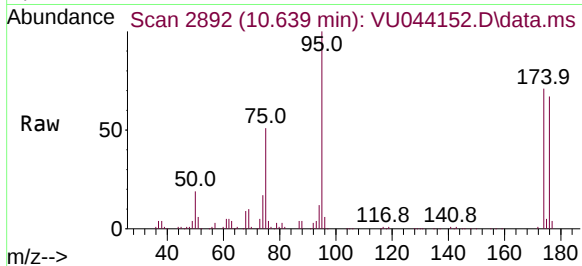




#81  
trans-1,4-Dichloro-2-butene  
Concen: 58.165 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. 0.087 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 75 Resp: 79398  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.2#  
89 0.0 35.0 52.6#



#95  
Naphthalene  
Concen: 2.891 ug/l  
RT: 14.099 min Scan# 3968  
Delta R.T. 0.007 min  
Lab File: VU044152.D  
Acq: 10 Jun 2021 13:49

Tgt Ion:128 Resp: 612  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.2#  
129 0.0 8.6 13.0#

