

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU102921\  
 Data File : VU045476.D  
 Acq On : 29 Oct 2021 19:59  
 Operator : SY/MD  
 Sample : M4375-05  
 Misc : 5.08g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 30 04:11:30 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U102821W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 29 11:09:42 2021  
 Response via : Initial Calibration

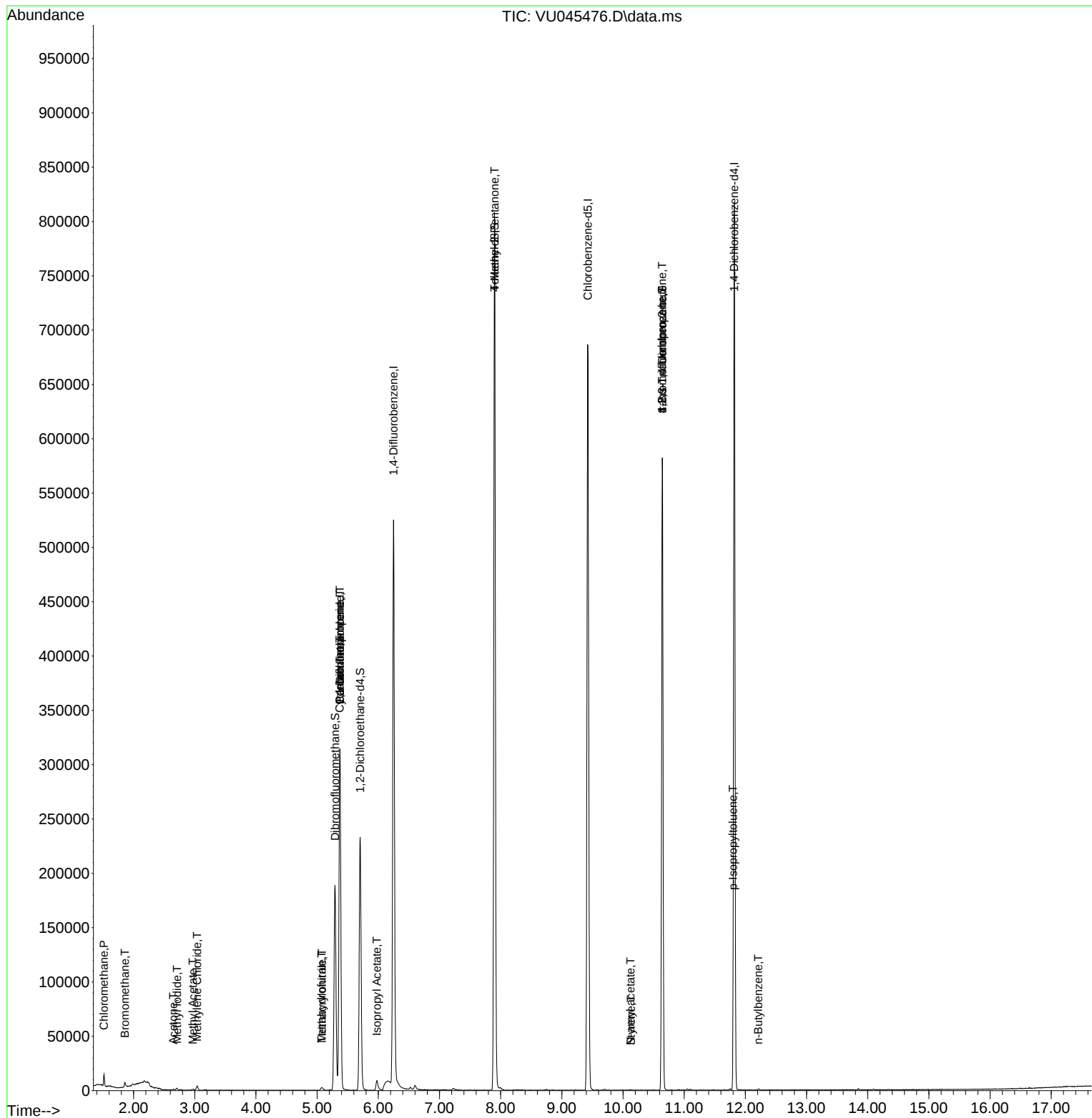
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.372  | 168   | 213534   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.250  | 114   | 430669   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 9.423  | 117   | 422954   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.819 | 152   | 201520   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65    | 181031   | 52.074   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 104.140% |          |
| 35) Dibromofluoromethane      | 5.292  | 113   | 131906   | 48.169   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 96.340%  |          |
| 50) Toluene-d8                | 7.899  | 98    | 551181   | 51.328   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 102.660% |          |
| 62) 4-Bromofluorobenzene      | 10.642 | 95    | 209116   | 51.104   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 102.200% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 3) Chloromethane              | 1.517  | 50    | 7578     | 1.783    | ug/l       | 98       |
| 5) Bromomethane               | 1.858  | 94    | 1752     | 0.818    | ug/l       | 87       |
| 10) Methyl Iodide             | 2.710  | 142   | 1658     | 9.943    | ug/l #     | 86       |
| 16) Acetone                   | 2.649  | 43    | 1010     | 0.640    | ug/l       | 98       |
| 18) Methyl Acetate            | 2.970  | 43    | 1369     | 0.233    | ug/l #     | 77       |
| 20) Methylene Chloride        | 3.038  | 84    | 1998     | 0.635    | ug/l #     | 92       |
| 29) Tetrahydrofuran           | 5.073  | 42    | 2185     | 1.414    | ug/l       | 89       |
| 31) Cyclohexane               | 5.369  | 56    | 5392     | 1.042    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 5.372  | 75    | 20164    | 4.919    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 5.372  | 117   | 22212    | 6.212    | ug/l #     | 16       |
| 41) Methacrylonitrile         | 5.080  | 41    | 1120     | 0.426    | ug/l #     | 32       |
| 43) Isopropyl Acetate         | 5.977  | 43    | 4085     | 0.546    | ug/l #     | 59       |
| 51) 4-Methyl-2-Pentanone      | 7.899  | 43    | 2686     | 0.555    | ug/l #     | 1        |
| 70) Styrene                   | 10.131 | 104   | 317      | 1.007    | ug/l #     | 40       |
| 74) N-amyl acetate            | 10.121 | 43    | 20       | 1.158    | ug/l #     | 40       |
| 76) 1,2,3-Trichloropropane    | 10.642 | 75    | 108889   | 20.280   | ug/l #     | 43       |
| 81) trans-1,4-Dichloro-2-b... | 10.642 | 75    | 108889   | 56.291   | ug/l #     | 12       |
| 86) p-Isopropyltoluene        | 11.800 | 119   | 474      | 0.225    | ug/l #     | 1        |
| 89) n-Butylbenzene            | 12.211 | 91    | 719      | 0.994    | ug/l #     | 77       |
| -----                         |        |       |          |          |            |          |

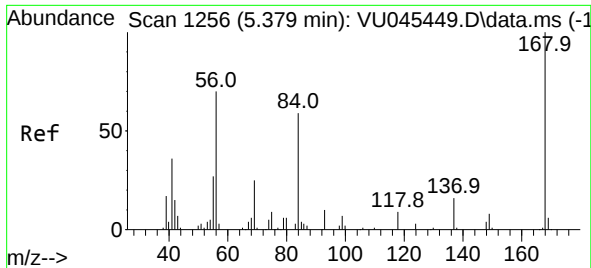
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 29 11:09:42 2021  
Response via : Initial Calibration

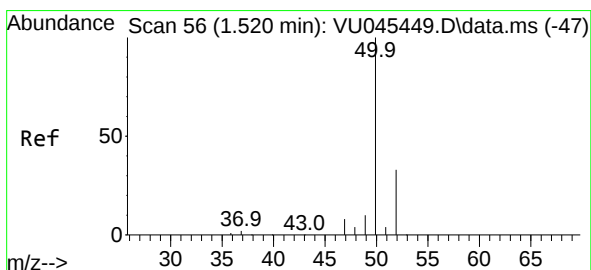
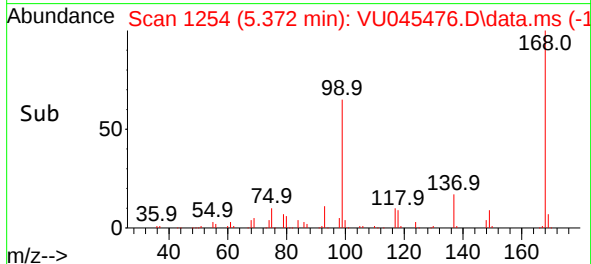
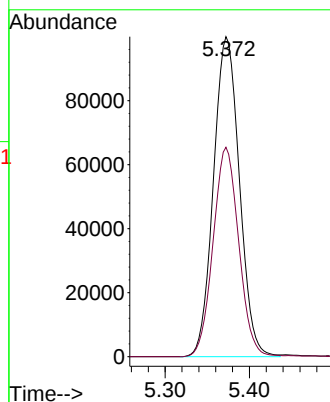
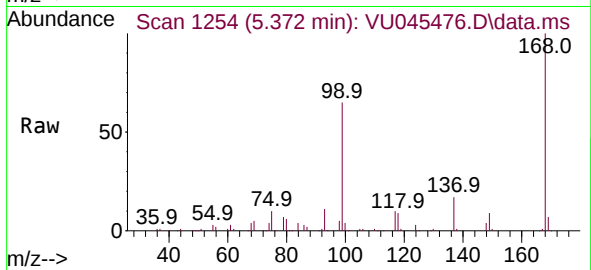




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.372 min Scan# 11  
Delta R.T. -0.007 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

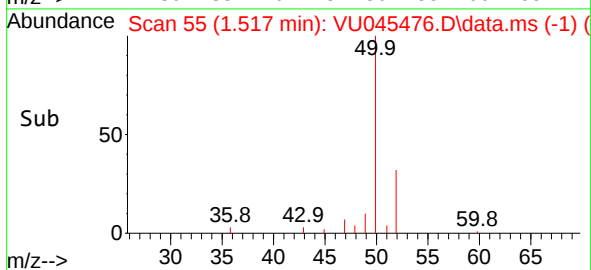
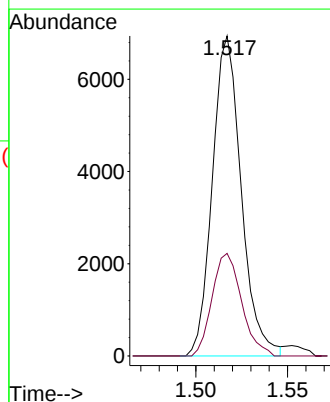
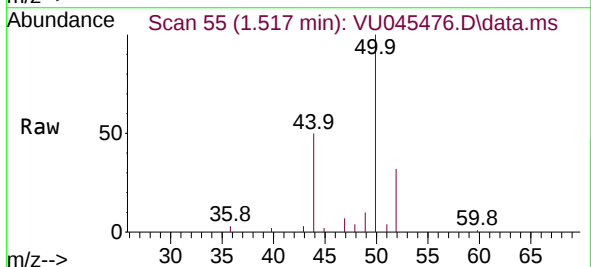
Instrument :  
MSVOA\_U  
ClientSampleId :

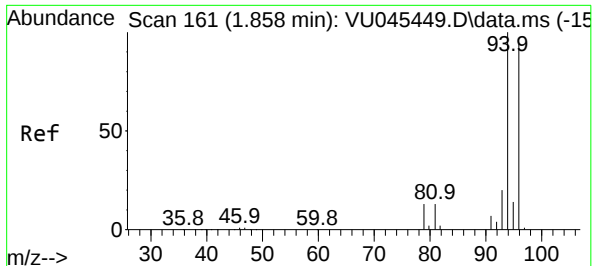
Tgt Ion:168 Resp: 213534  
Ion Ratio Lower Upper  
168 100  
99 65.4 51.0 76.6



#3  
Chloromethane  
Concen: 1.783 ug/l  
RT: 1.517 min Scan# 55  
Delta R.T. -0.003 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

Tgt Ion: 50 Resp: 7578  
Ion Ratio Lower Upper  
50 100  
52 32.0 26.6 40.0

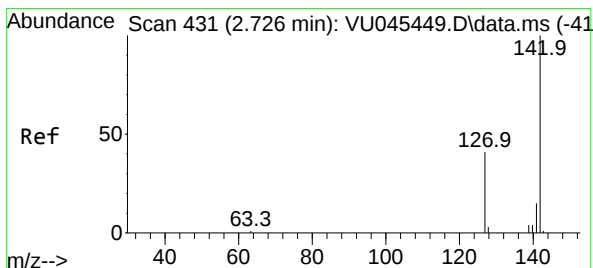
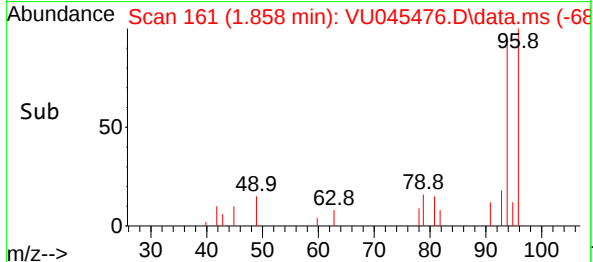
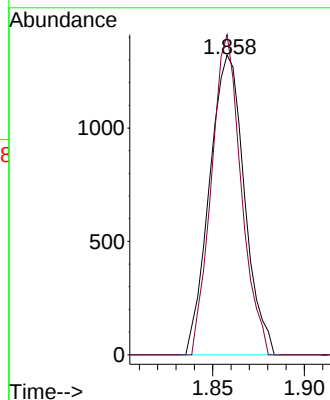
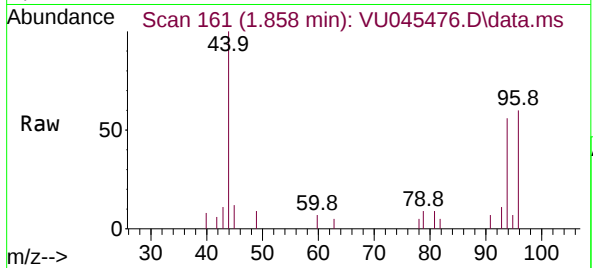




#5  
Bromomethane  
Concen: 0.818 ug/l  
RT: 1.858 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

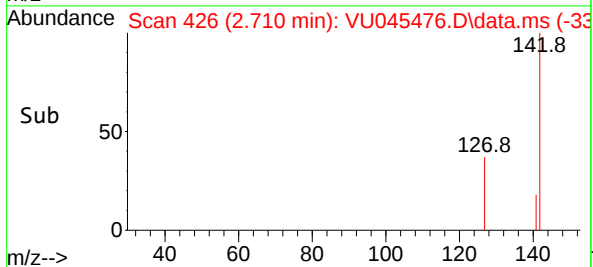
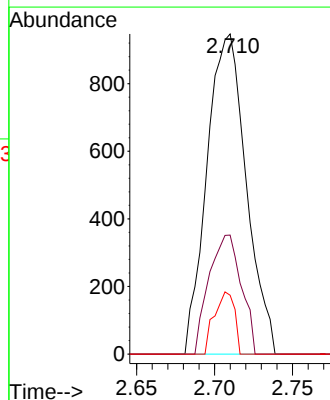
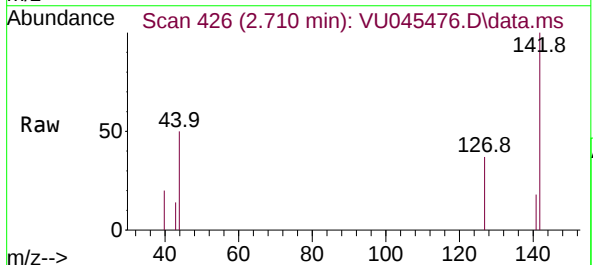
Instrument :  
MSVOA\_U  
ClientSampleId :

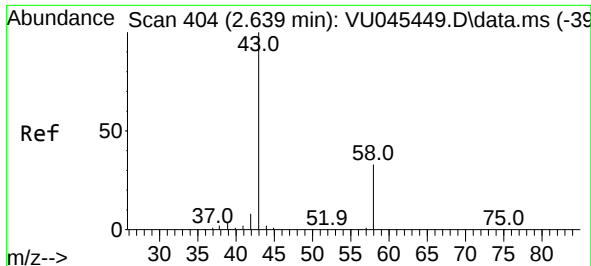
Tgt Ion: 94 Resp: 1752  
Ion Ratio Lower Upper  
94 100  
96 106.7 75.4 113.2



#10  
Methyl Iodide  
Concen: 9.943 ug/l  
RT: 2.710 min Scan# 426  
Delta R.T. -0.016 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

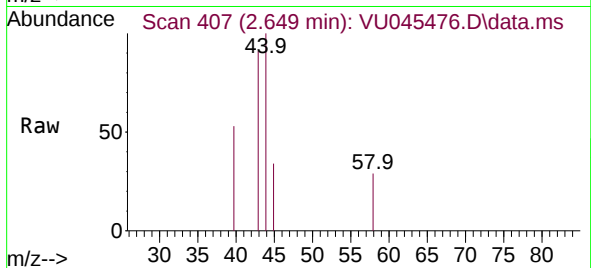
Tgt Ion: 142 Resp: 1658  
Ion Ratio Lower Upper  
142 100  
127 30.5 32.2 48.2#  
141 10.0 11.3 16.9#



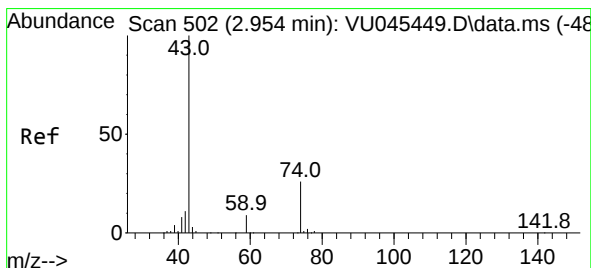
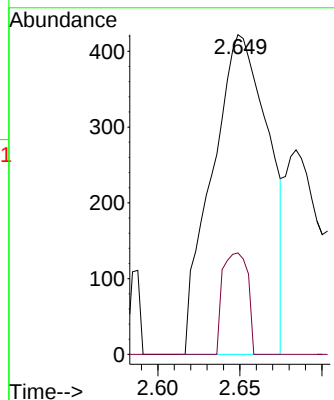
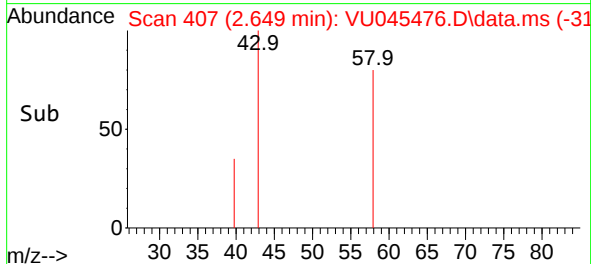


#16  
Acetone  
Concen: 0.640 ug/l  
RT: 2.649 min Scan# 404  
Delta R.T. 0.010 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

Instrument :  
MSVOA\_U  
ClientSampleId :

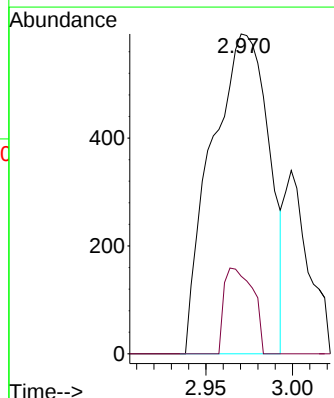
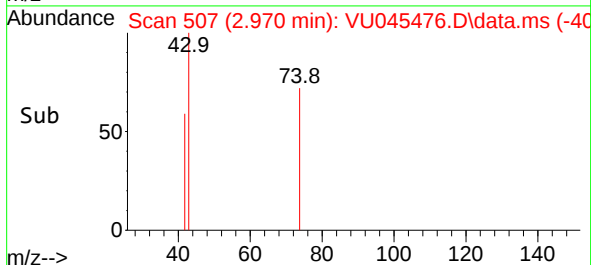
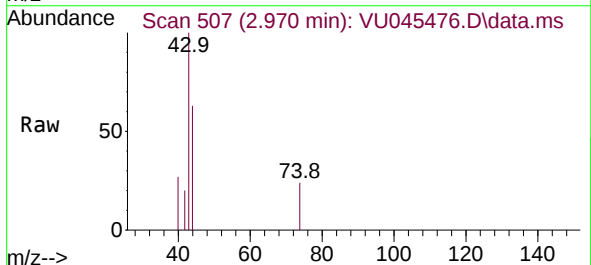


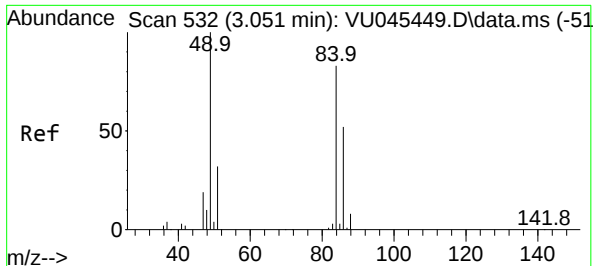
Tgt Ion: 43 Resp: 1010  
Ion Ratio Lower Upper  
43 100  
58 31.8 26.2 39.2



#18  
Methyl Acetate  
Concen: 0.233 ug/l  
RT: 2.970 min Scan# 507  
Delta R.T. 0.016 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

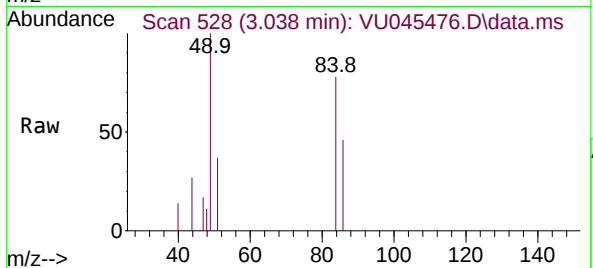
Tgt Ion: 43 Resp: 1369  
Ion Ratio Lower Upper  
43 100  
74 13.4 20.2 30.2#



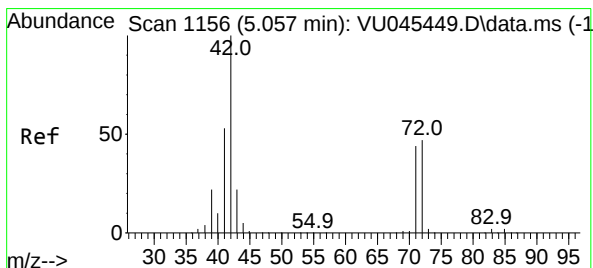
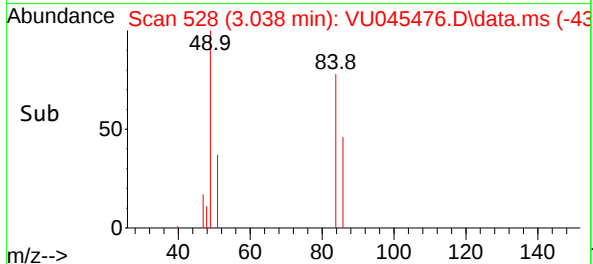
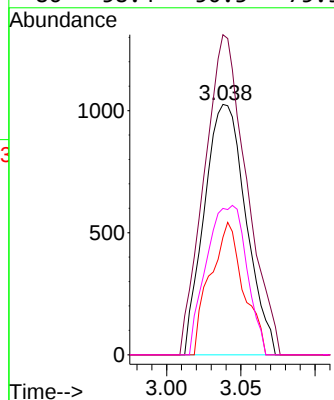


#20  
Methylene Chloride  
Concen: 0.635 ug/l  
RT: 3.038 min Scan# 51  
Delta R.T. -0.013 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

Instrument :  
MSVOA\_U  
ClientSampleId :

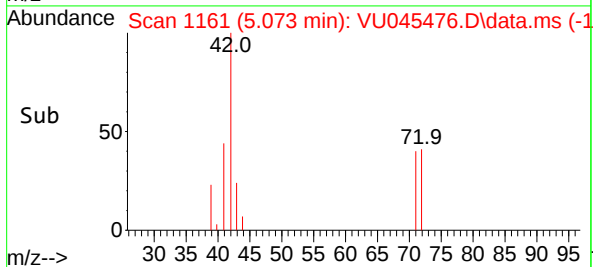
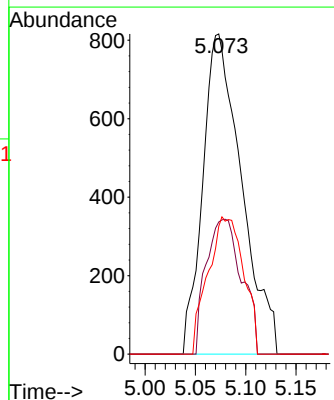
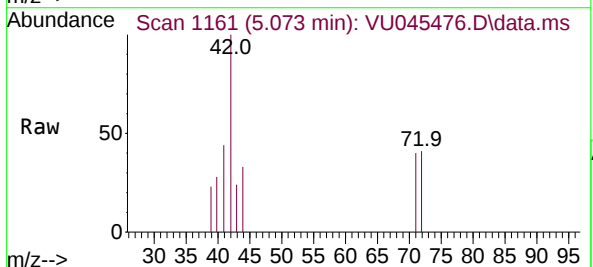


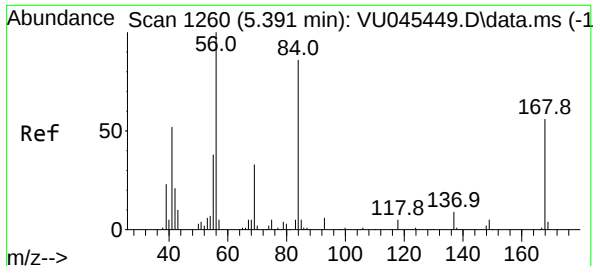
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1998  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 127.9 | 96.4  | 144.6 |
| 51       | 46.9  | 30.5  | 45.7# |
| 86       | 58.4  | 50.3  | 75.5  |



#29  
Tetrahydrofuran  
Concen: 1.414 ug/l  
RT: 5.073 min Scan# 1161  
Delta R.T. 0.016 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

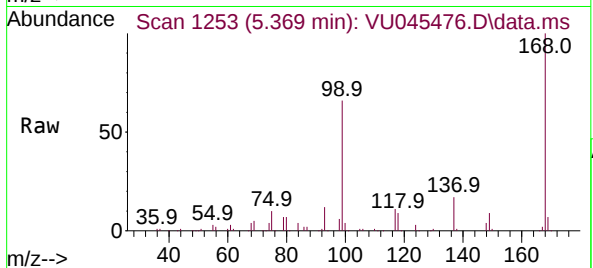
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 2185  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 38.7  | 38.2  | 57.4  |
| 71       | 39.4  | 35.4  | 53.2  |



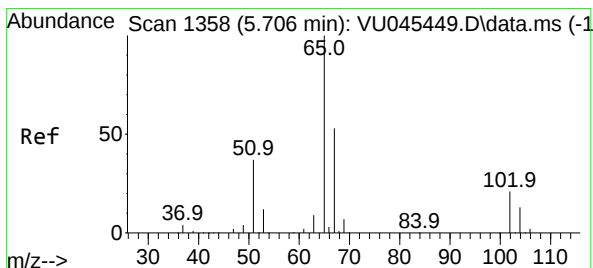
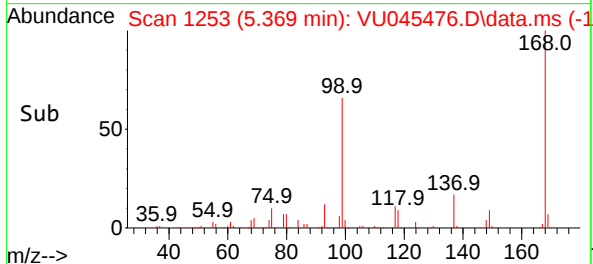
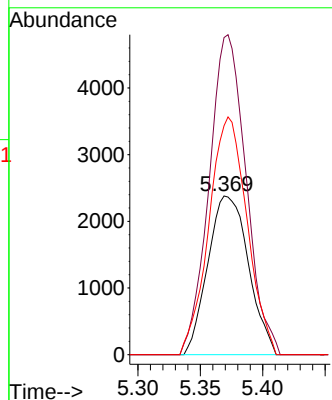


#31  
Cyclohexane  
Concen: 1.042 ug/l  
RT: 5.369 min Scan# 11  
Delta R.T. -0.022 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

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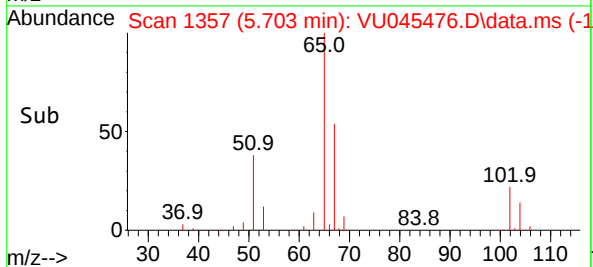
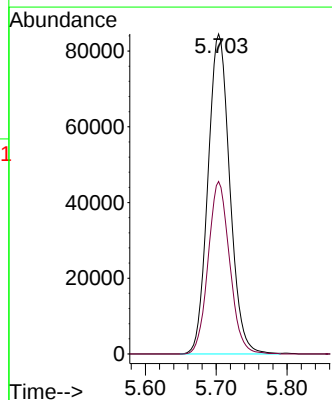
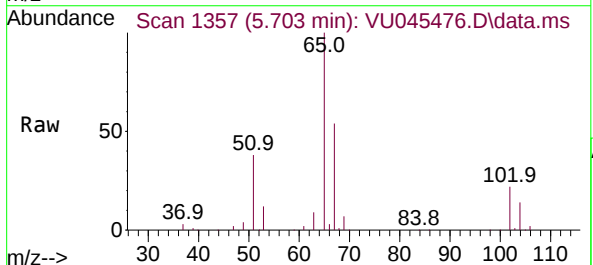


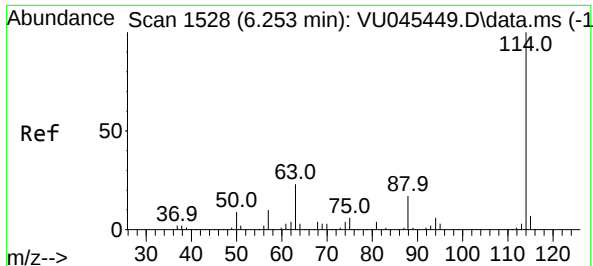
Tgt Ion: 56 Resp: 5392  
Ion Ratio Lower Upper  
56 100  
69 199.7 26.4 39.6#  
84 144.3 68.4 102.6#



#33  
1,2-Dichloroethane-d4  
Concen: 52.074 ug/l  
RT: 5.703 min Scan# 1357  
Delta R.T. -0.003 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

Tgt Ion: 65 Resp: 181031  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU045476.D

Acq: 29 Oct 2021 19:59

Instrument :

MSVOA\_U

ClientSampleId :

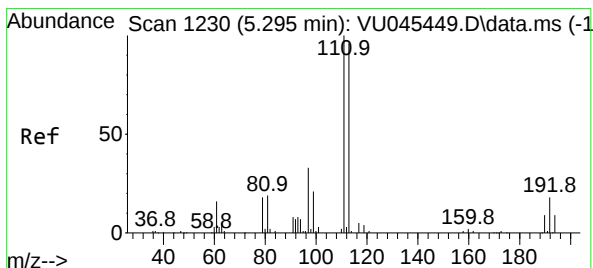
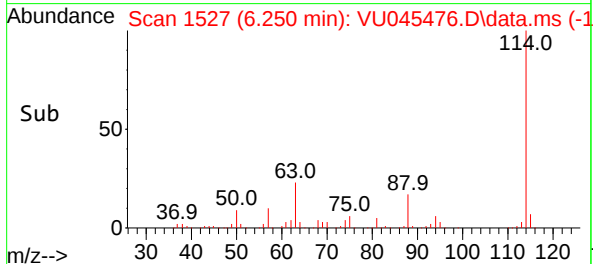
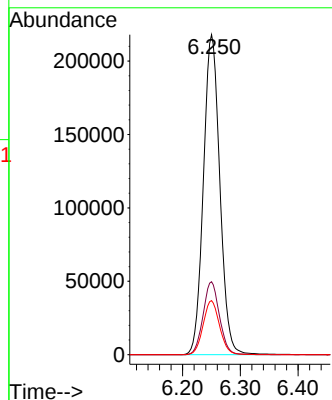
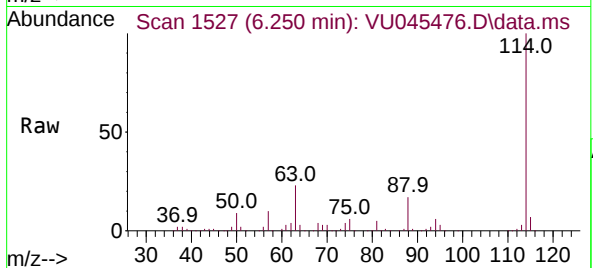
Tgt Ion:114 Resp: 430669

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

88 16.9 0.0 33.8



#35

Dibromofluoromethane

Concen: 48.169 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.003 min

Lab File: VU045476.D

Acq: 29 Oct 2021 19:59

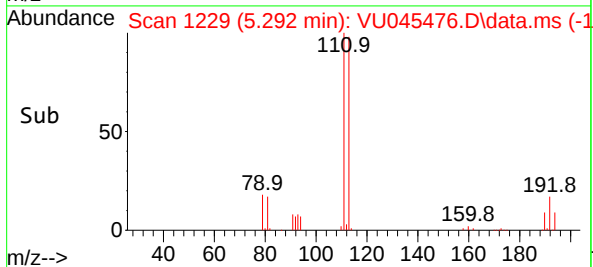
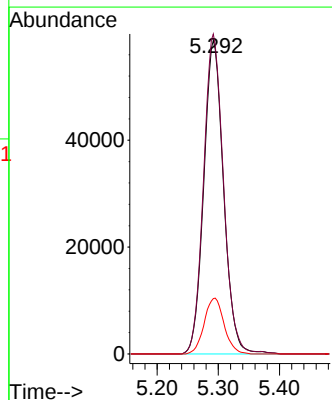
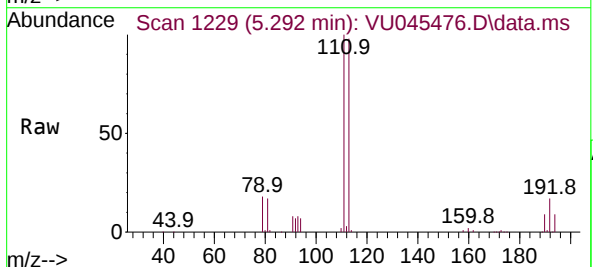
Tgt Ion:113 Resp: 131906

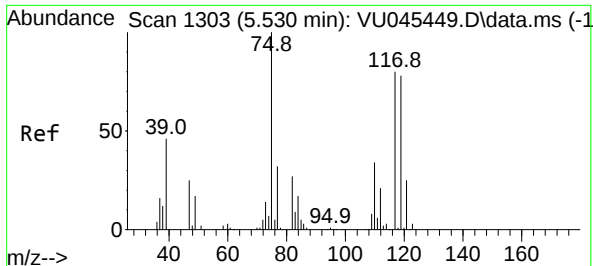
Ion Ratio Lower Upper

113 100

111 102.5 82.8 124.2

192 17.9 14.8 22.2





#36

1,1-Dichloropropene

Concen: 4.919 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.157 min

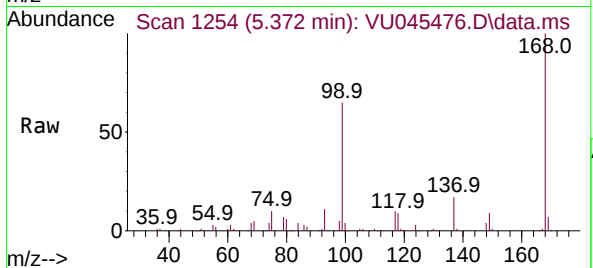
Lab File: VU045476.D

Acq: 29 Oct 2021 19:59

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MSVOA\_U

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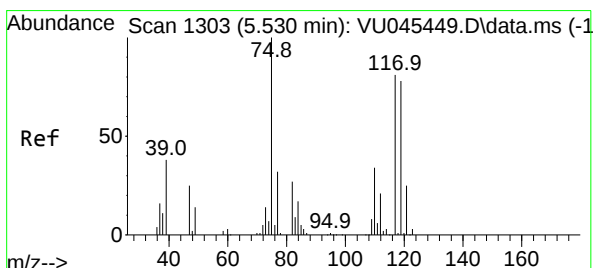
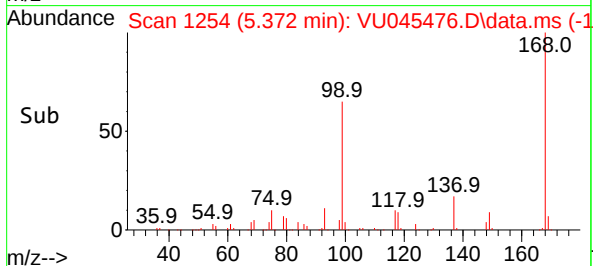
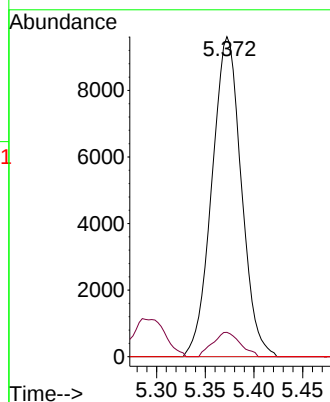
Tgt Ion: 75 Resp: 20164

Ion Ratio Lower Upper

75 100

110 7.1 16.7 50.0#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.212 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.157 min

Lab File: VU045476.D

Acq: 29 Oct 2021 19:59

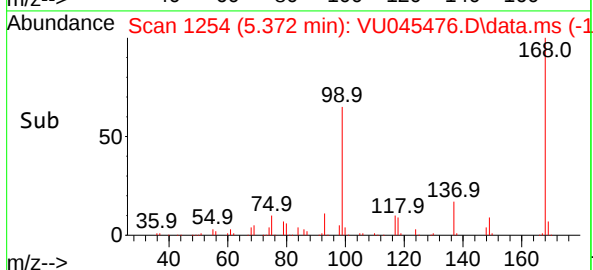
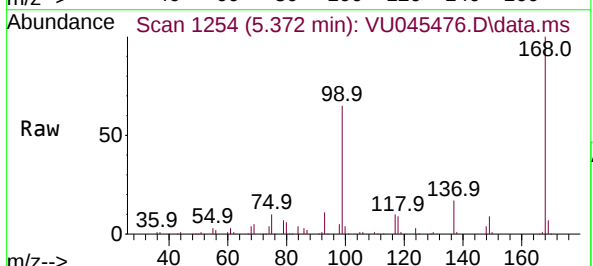
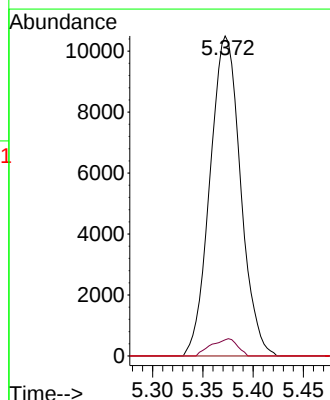
Tgt Ion: 117 Resp: 22212

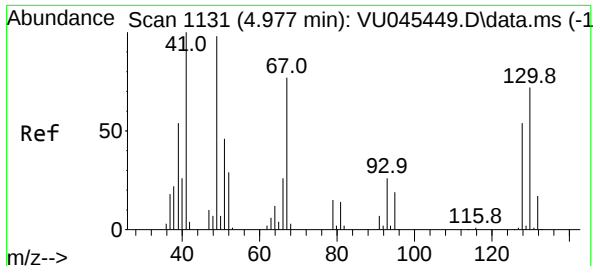
Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

121 0.0 24.8 37.2#

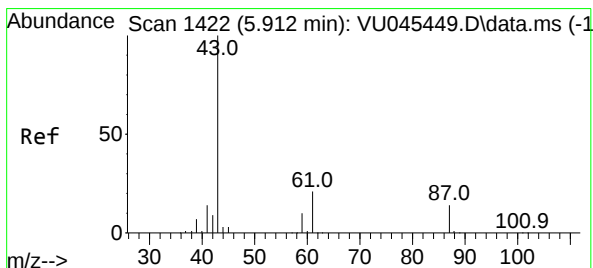
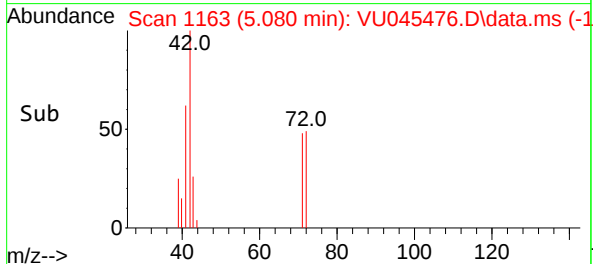
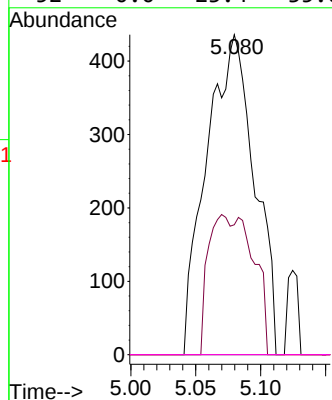
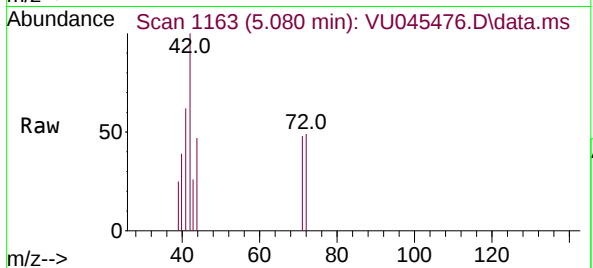




#41  
Methacrylonitrile  
Concen: 0.426 ug/l  
RT: 5.080 min Scan# 1131  
Delta R.T. 0.103 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

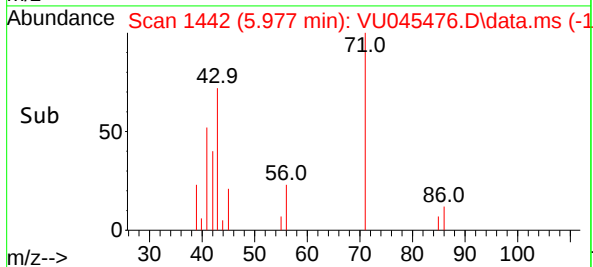
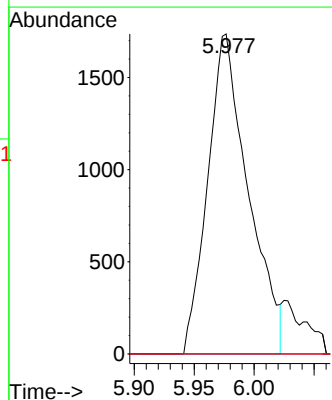
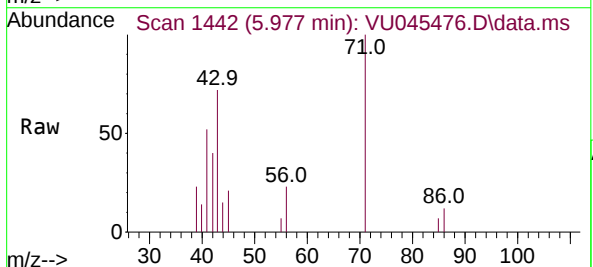
Instrument :  
MSVOA\_U  
ClientSampleId :

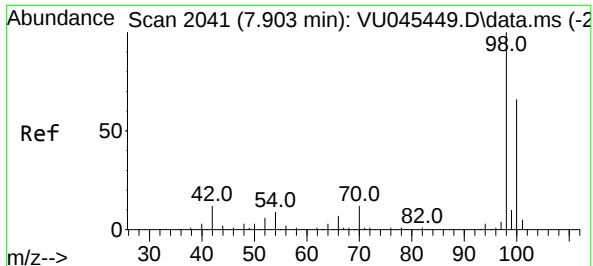
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 1120  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 20.4  | 43.4  | 65.0# |
| 67       | 0.0   | 61.0  | 91.4# |
| 52       | 0.0   | 23.4  | 35.0# |



#43  
Isopropyl Acetate  
Concen: 0.546 ug/l  
RT: 5.977 min Scan# 1442  
Delta R.T. 0.064 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4085  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 16.9  | 25.3# |
| 87       | 0.0   | 11.0  | 16.4# |

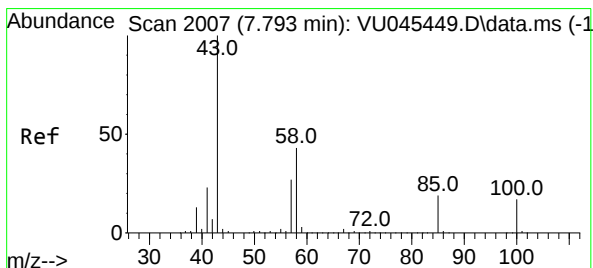
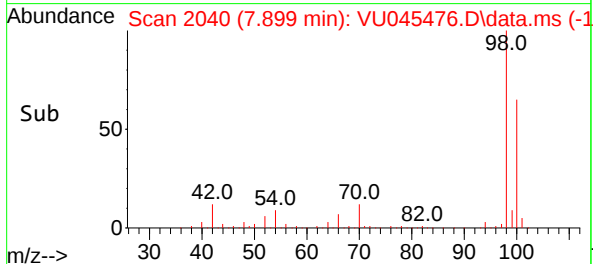
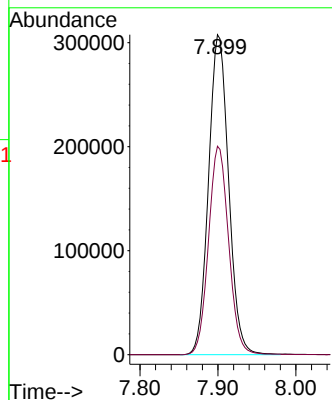
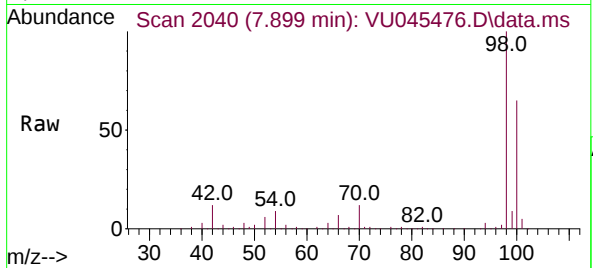




#50  
Toluene-d8  
Concen: 51.328 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. -0.003 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

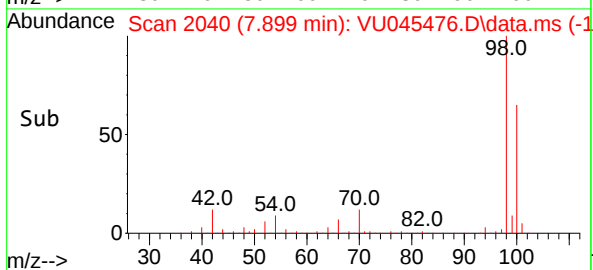
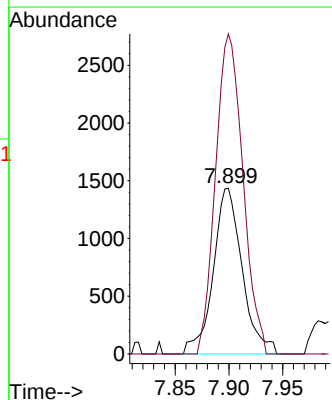
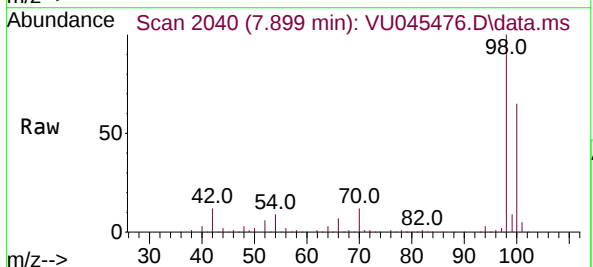
Instrument :  
MSVOA\_U  
ClientSampleId :

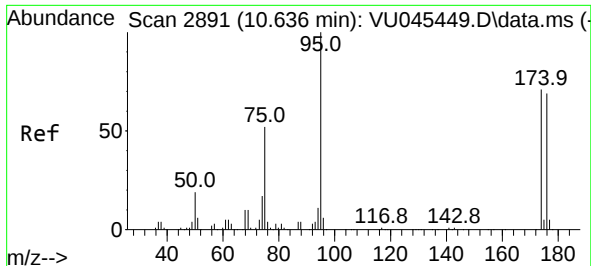
Tgt Ion: 98 Resp: 551181  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.5 78.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.555 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. 0.106 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

Tgt Ion: 43 Resp: 2686  
Ion Ratio Lower Upper  
43 100  
58 182.7 33.8 50.8#





#62

4-Bromofluorobenzene

Concen: 51.104 ug/l

RT: 10.642 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU045476.D

Acq: 29 Oct 2021 19:59

Instrument :

MSVOA\_U

ClientSampleId :

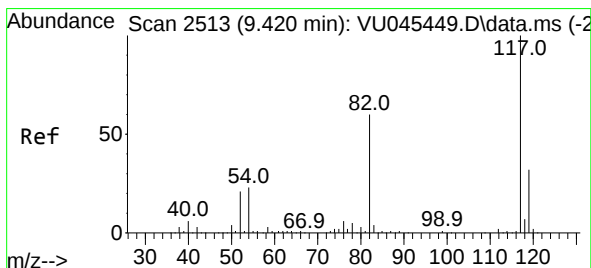
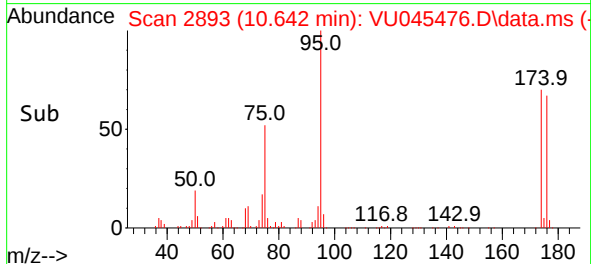
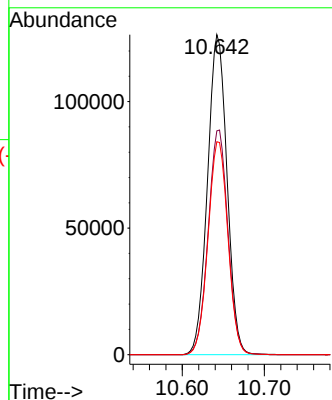
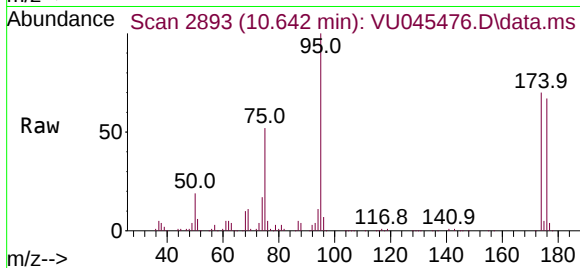
Tgt Ion: 95 Resp: 209116

Ion Ratio Lower Upper

95 100

174 71.0 0.0 141.8

176 67.8 0.0 138.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.423 min Scan# 2514

Delta R.T. 0.003 min

Lab File: VU045476.D

Acq: 29 Oct 2021 19:59

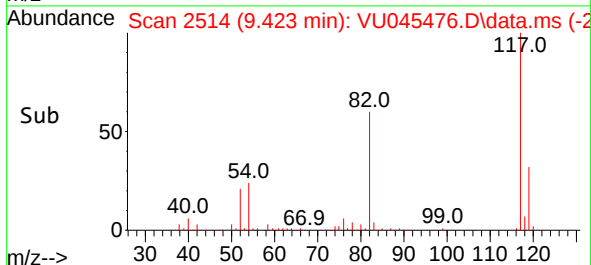
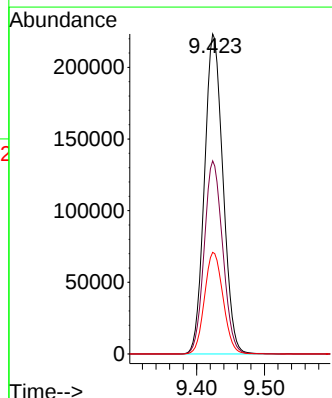
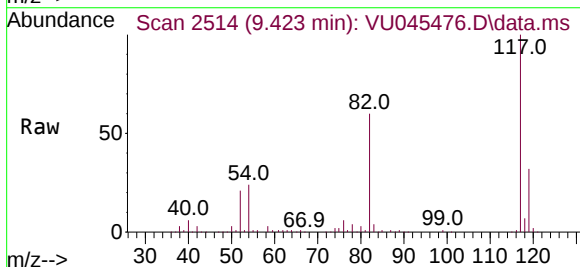
Tgt Ion: 117 Resp: 422954

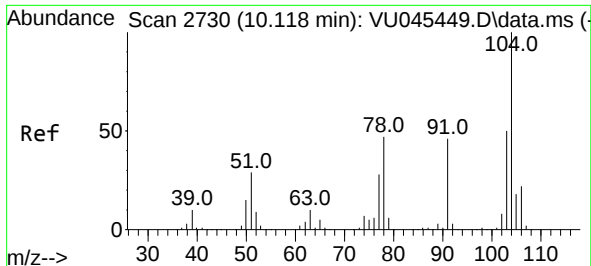
Ion Ratio Lower Upper

117 100

82 60.4 47.8 71.8

119 31.7 25.8 38.8

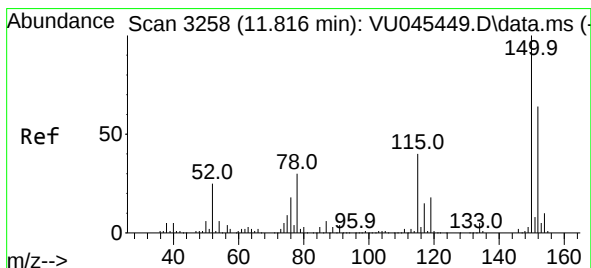
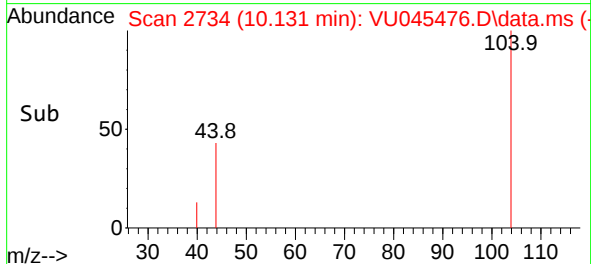
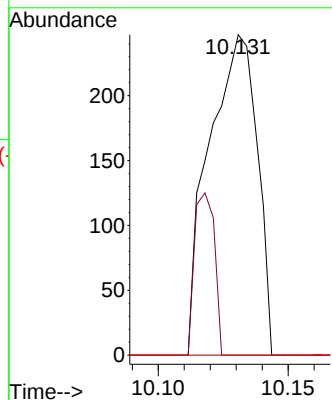
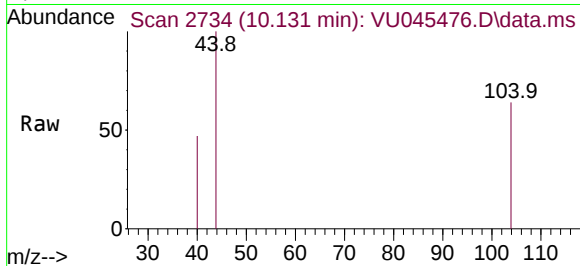




#70  
Styrene  
Concen: 1.007 ug/l  
RT: 10.131 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

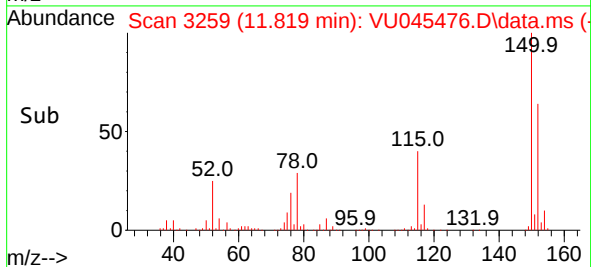
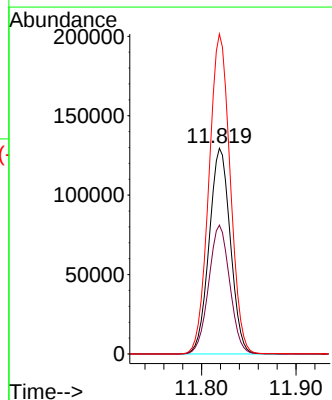
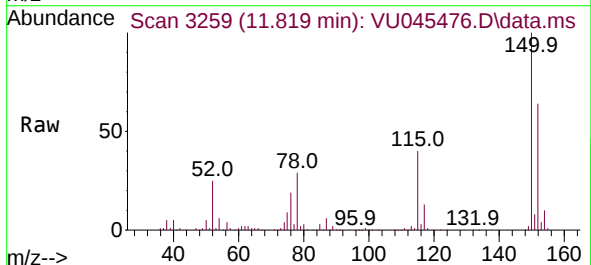
Instrument :  
MSVOA\_U  
ClientSampleId :

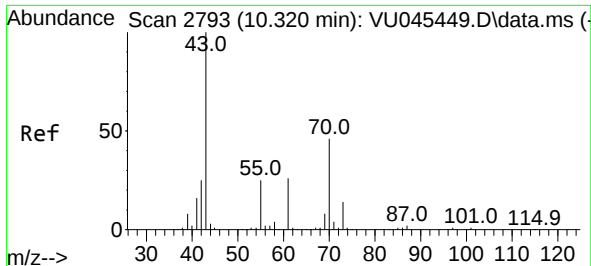
Tgt Ion:104 Resp: 317  
Ion Ratio Lower Upper  
104 100  
78 21.1 41.8 62.6#  
103 0.0 43.8 65.6#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.819 min Scan# 3259  
Delta R.T. 0.003 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

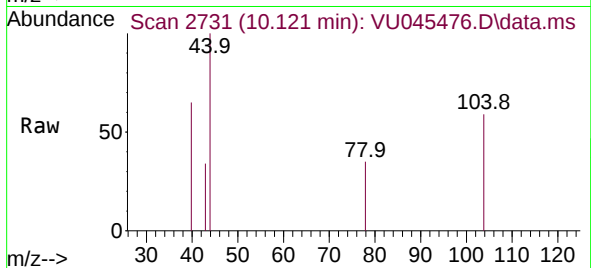
Tgt Ion:152 Resp: 201520  
Ion Ratio Lower Upper  
152 100  
115 62.4 42.7 128.1  
150 156.3 0.0 346.8



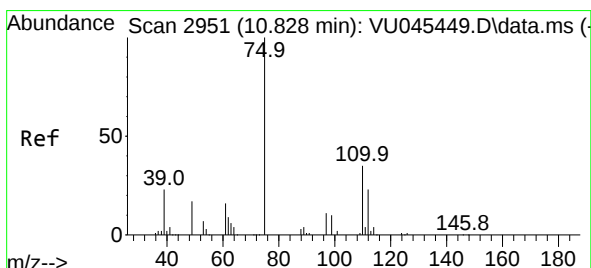
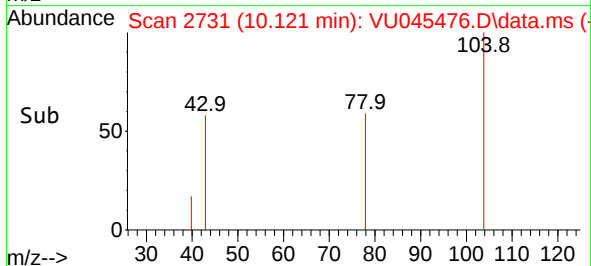
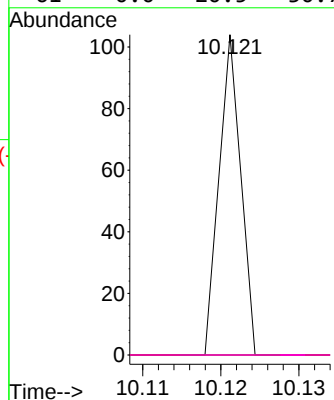


#74  
N-amy1 acetate  
Concen: 1.158 ug/l  
RT: 10.121 min Scan# 21  
Delta R.T. -0.199 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

Instrument :  
MSVOA\_U  
ClientSampleId :

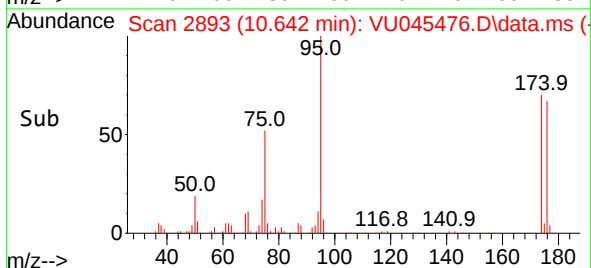
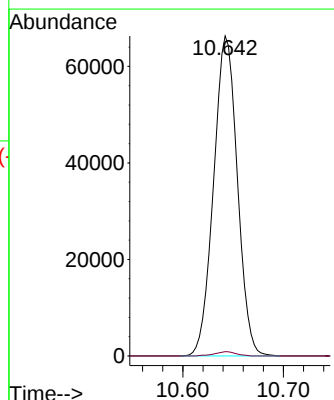
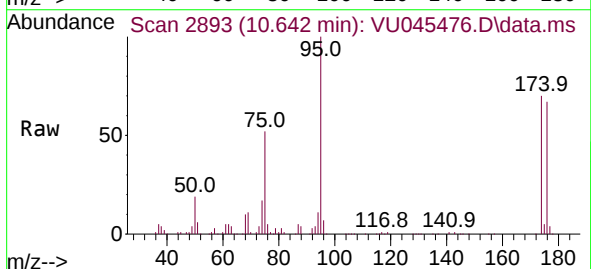


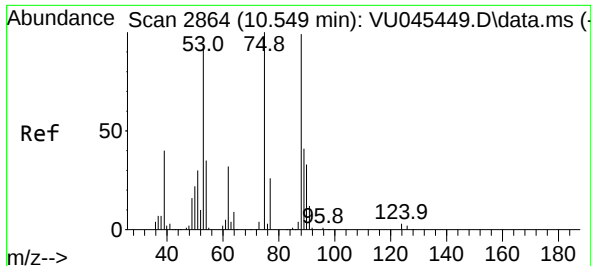
Tgt Ion: 43 Resp: 20  
Ion Ratio Lower Upper  
43 100  
70 0.0 36.9 55.3#  
55 0.0 20.6 31.0#  
61 0.0 20.5 30.7#



#76  
1,2,3-Trichloropropane  
Concen: 20.280 ug/l  
RT: 10.642 min Scan# 2893  
Delta R.T. -0.186 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

Tgt Ion: 75 Resp: 108889  
Ion Ratio Lower Upper  
75 100  
77 1.2 17.1 51.3#

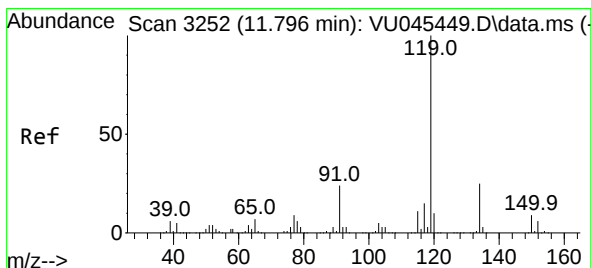
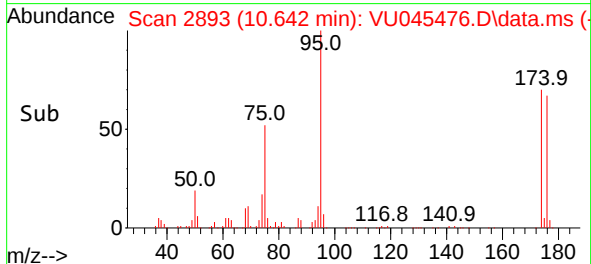
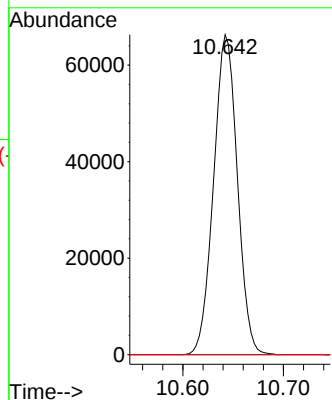
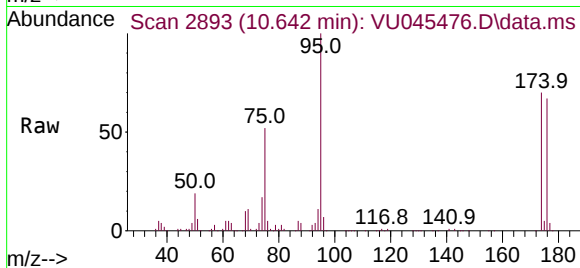




#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.291 ug/l  
RT: 10.642 min Scan# 21  
Delta R.T. 0.093 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

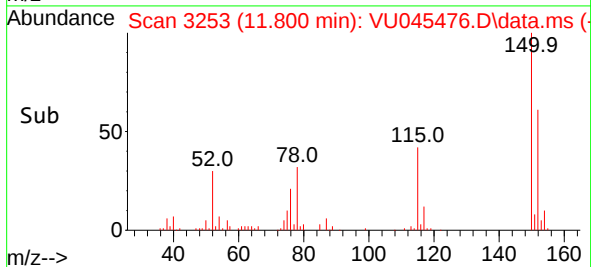
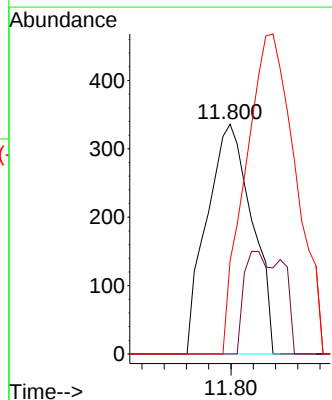
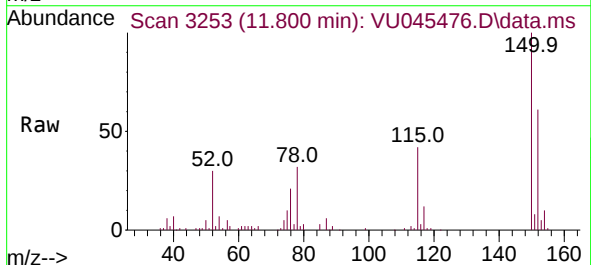
Instrument :  
MSVOA\_U  
ClientSampleId :

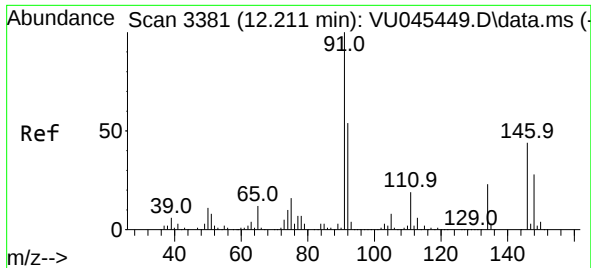
Tgt Ion: 75 Resp: 108889  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.2 114.4#  
89 0.0 34.0 51.0#



#86  
p-Isopropyltoluene  
Concen: 0.225 ug/l  
RT: 11.800 min Scan# 3253  
Delta R.T. 0.004 min  
Lab File: VU045476.D  
Acq: 29 Oct 2021 19:59

Tgt Ion: 119 Resp: 474  
Ion Ratio Lower Upper  
119 100  
134 38.2 12.7 38.1#  
91 154.4 12.2 36.4#





#89

n-Butylbenzene

Concen: 0.994 ug/l

RT: 12.211 min Scan# 31

Delta R.T. 0.000 min

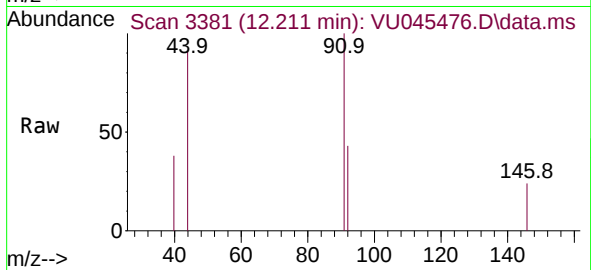
Lab File: VU045476.D

Acq: 29 Oct 2021 19:59

Instrument :

MSVOA\_U

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 719   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 45.6  | 27.1  | 81.2  |
| 134      | 0.0   | 11.8  | 35.4# |

