

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU053122\  
 Data File : VU048764.D  
 Acq On : 01 Jun 2022 02:12  
 Operator : SY/MD  
 Sample : N3099-06  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 20220429-SPLP-AMENDED-COMPOSITE-I

Quant Time: Jun 01 05:45:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052622W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 27 06:42:31 2022  
 Response via : Initial Calibration

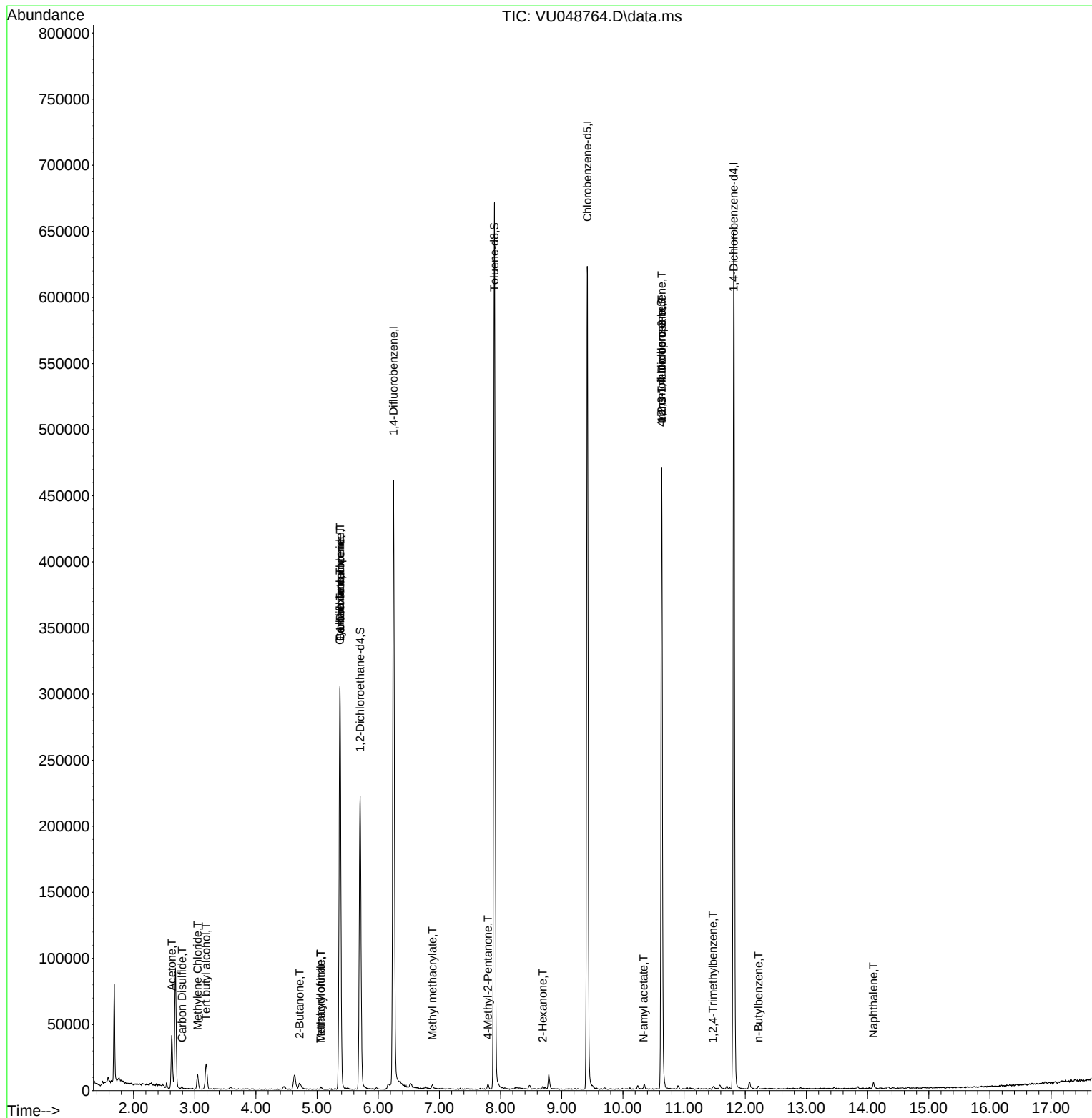
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.375  | 168   | 206572   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.250  | 114   | 364012   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.417  | 117   | 345835   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 171397   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65    | 169977   | 54.790    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 109.580% |
| 35) Dibromofluoromethane      | 5.288  | 113   | 245      | 0.094     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 0.180%#  |
| 50) Toluene-d8                | 7.899  | 98    | 441033   | 47.377    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 94.760%  |
| 62) 4-Bromofluorobenzene      | 10.632 | 95    | 160587   | 45.613    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 91.220%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.861  | 94    | 156      | Below Cal | #      | 3        |
| 6) Chloroethane               | 1.922  | 64    | 342      | Below Cal | #      | 43       |
| 11) Tert butyl alcohol        | 3.182  | 59    | 11357    | 14.439    | ug/l # | 28       |
| 13) Acrolein                  | 2.485  | 56    | 435      | Below Cal | #      | 64       |
| 16) Acetone                   | 2.626  | 43    | 44009    | 27.836    | ug/l   | 99       |
| 17) Carbon Disulfide          | 2.793  | 76    | 1745     | 0.284     | ug/l # | 75       |
| 20) Methylene Chloride        | 3.047  | 84    | 5098     | 1.896     | ug/l   | 95       |
| 25) 2-Butanone                | 4.713  | 43    | 7030     | 3.095     | ug/l   | 90       |
| 29) Tetrahydrofuran           | 5.057  | 42    | 1068     | 0.747     | ug/l # | 53       |
| 31) Cyclohexane               | 5.372  | 56    | 4004     | 1.024     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.375  | 75    | 17293    | 4.563     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.375  | 117   | 21440    | 4.931     | ug/l # | 18       |
| 41) Methacrylonitrile         | 5.063  | 41    | 576      | 0.238     | ug/l # | 31       |
| 48) Methyl methacrylate       | 6.886  | 41    | 922      | 0.295     | ug/l # | 27       |
| 51) 4-Methyl-2-Pentanone      | 7.793  | 43    | 3114     | 0.690     | ug/l   | 92       |
| 59) 2-Hexanone                | 8.690  | 43    | 1933     | 0.521     | ug/l   | 77       |
| 64) Tetrachloroethene         | 8.555  | 164   | 64       | Below Cal | #      | 23       |
| 74) N-amyl acetate            | 10.336 | 43    | 578      | 2.565     | ug/l # | 41       |
| 76) 1,2,3-Trichloropropane    | 10.635 | 75    | 82773    | 14.978    | ug/l # | 48       |
| 81) trans-1,4-Dichloro-2-b... | 10.635 | 75    | 82773    | 54.384    | ug/l # | 13       |
| 84) 1,2,4-Trimethylbenzene    | 11.471 | 105   | 1303     | 1.310     | ug/l # | 51       |
| 89) n-Butylbenzene            | 12.217 | 91    | 812      | 2.264     | ug/l   | 81       |
| 95) Naphthalene               | 14.095 | 128   | 4451     | 2.846     | ug/l # | 90       |
| -----                         |        |       |          |           |        |          |

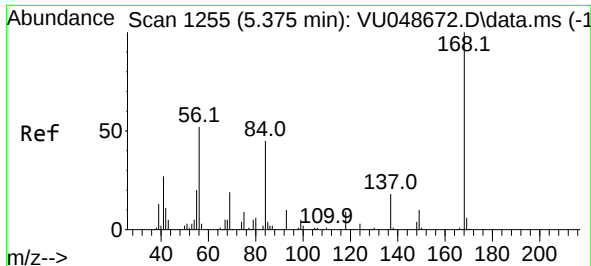
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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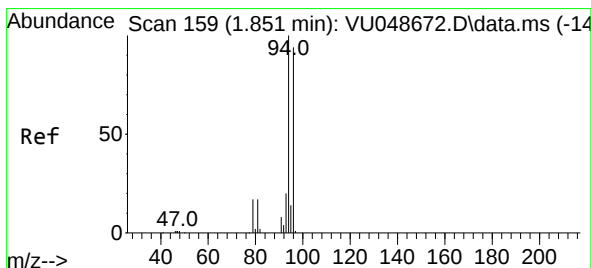
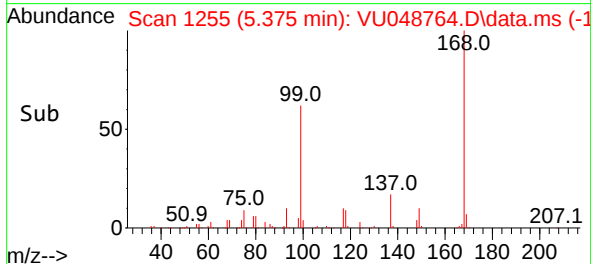
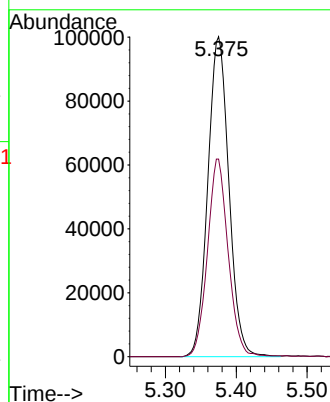
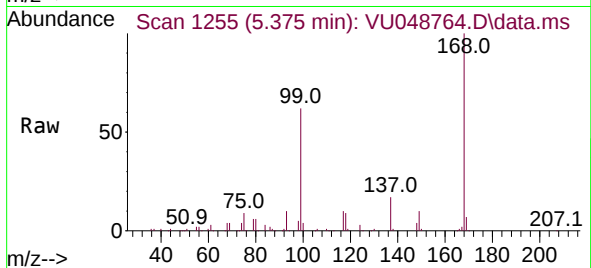




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.375 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

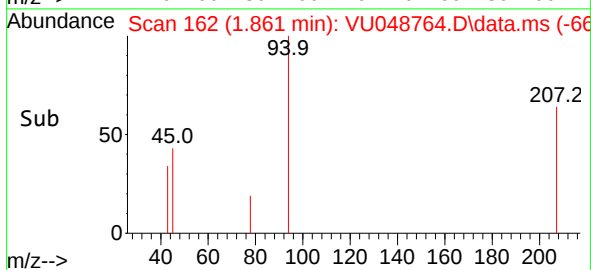
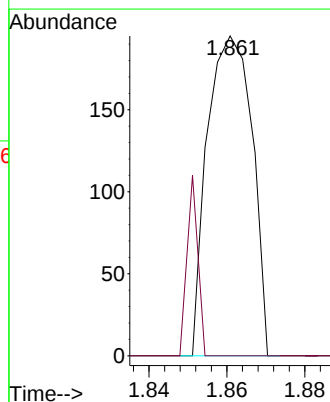
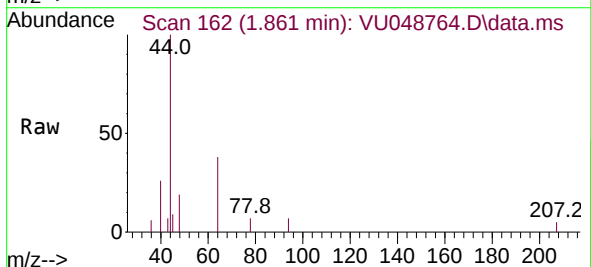
Instrument :  
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ClientSampleId :  
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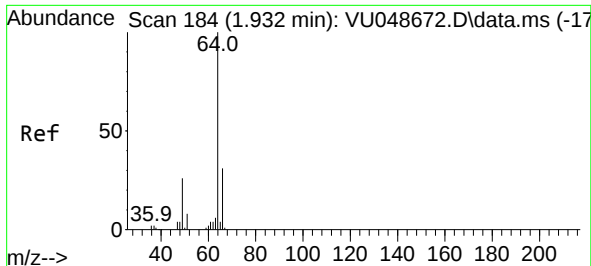
Tgt Ion:168 Resp: 206572  
Ion Ratio Lower Upper  
168 100  
99 61.7 49.3 73.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.861 min Scan# 162  
Delta R.T. 0.010 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

Tgt Ion: 94 Resp: 156  
Ion Ratio Lower Upper  
94 100  
96 0.0 75.1 112.7#

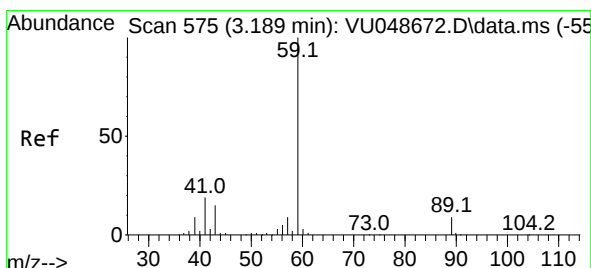
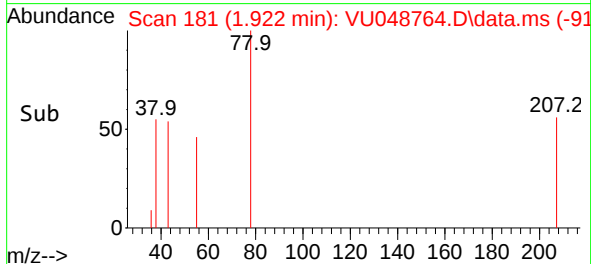
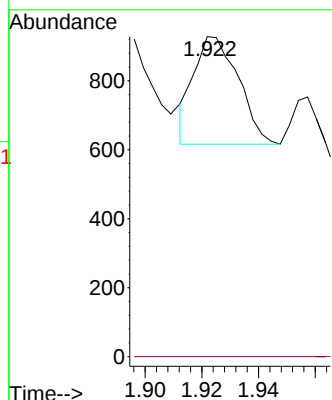
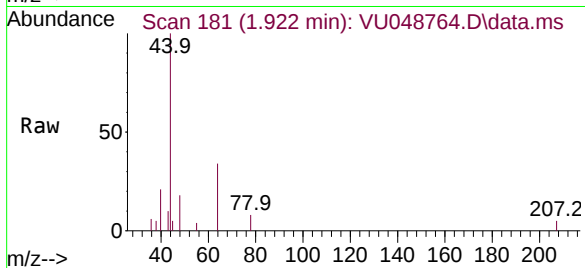




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.922 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

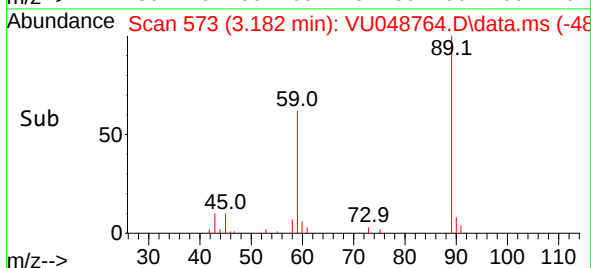
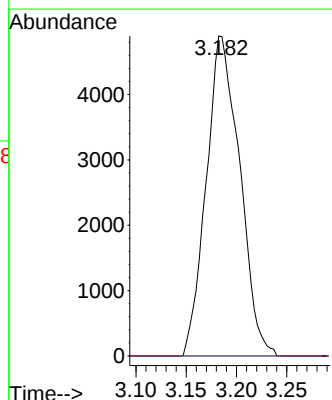
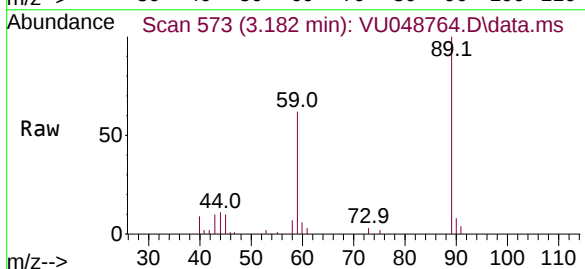
Instrument : MSVOA\_U  
ClientSampleId : 20220429-SPLP-AMENDED-COMPOSITE-I

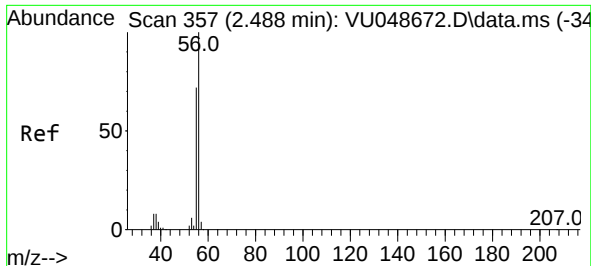
Tgt Ion: 64 Resp: 342  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.2 37.8#



#11  
Tert butyl alcohol  
Concen: 14.439 ug/l  
RT: 3.182 min Scan# 573  
Delta R.T. -0.007 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

Tgt Ion: 59 Resp: 11357  
Ion Ratio Lower Upper  
59 100  
57 0.0 39.7 59.5#

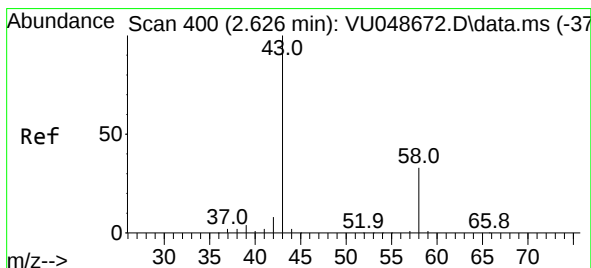
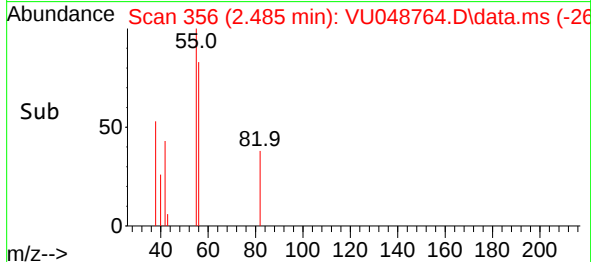
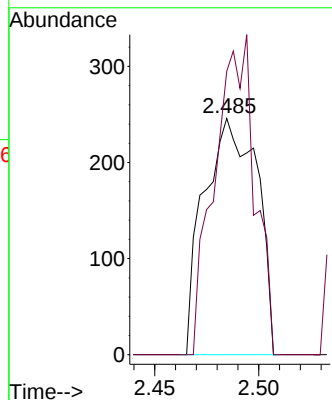
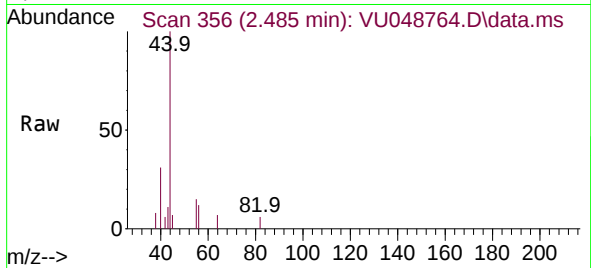




#13  
Acrolein  
Concen: Below Cal  
RT: 2.485 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

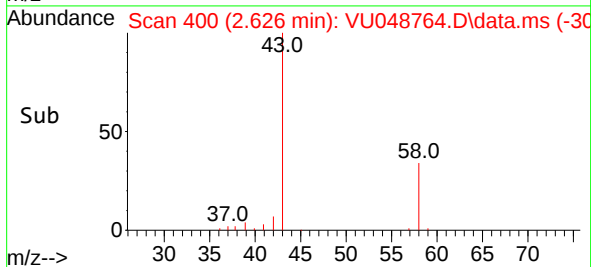
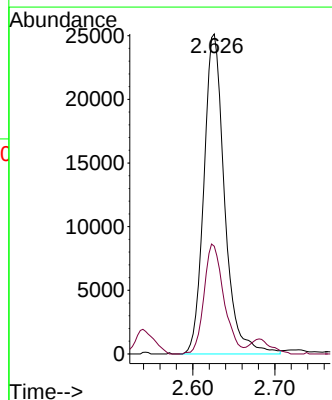
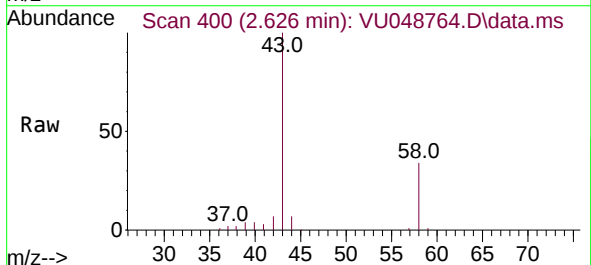
Instrument :  
MSVOA\_U  
ClientSampleId :  
20220429-SPLP-AMENDED-COMPOSITE-I

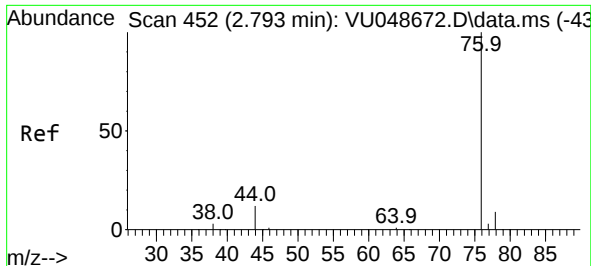
Tgt Ion: 56 Resp: 435  
Ion Ratio Lower Upper  
56 100  
55 101.8 57.7 86.5#



#16  
Acetone  
Concen: 27.836 ug/l  
RT: 2.626 min Scan# 400  
Delta R.T. -0.000 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

Tgt Ion: 43 Resp: 44009  
Ion Ratio Lower Upper  
43 100  
58 33.7 26.3 39.5





#17

Carbon Disulfide

Concen: 0.284 ug/l

RT: 2.793 min Scan# 452

Delta R.T. -0.000 min

Lab File: VU048764.D

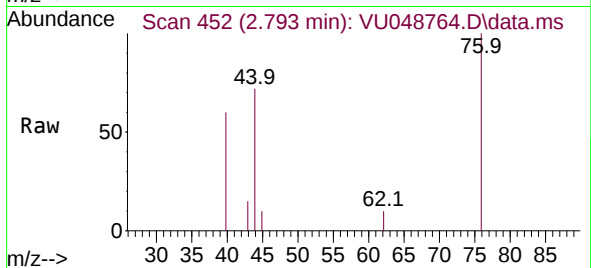
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Instrument :

MSVOA\_U

ClientSampleId :

20220429-SPLP-AMENDED-COMPOSITE-I

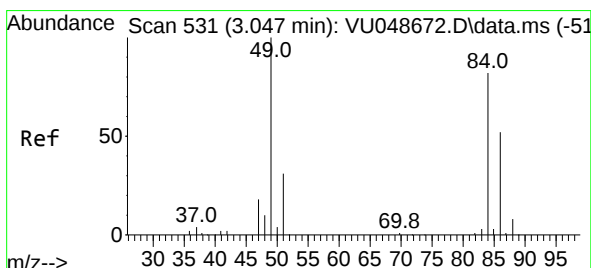
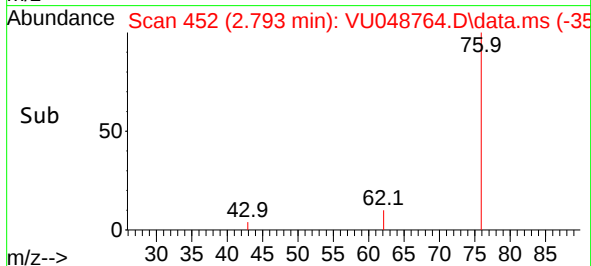
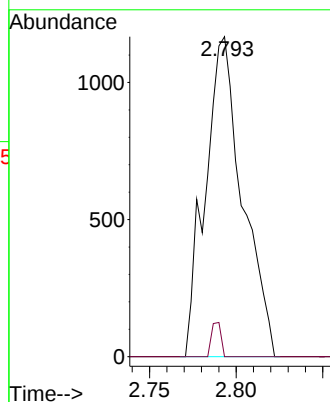


Tgt Ion: 76 Resp: 1745

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#20

Methylene Chloride

Concen: 1.896 ug/l

RT: 3.047 min Scan# 531

Delta R.T. -0.000 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

Tgt Ion: 84 Resp: 5098

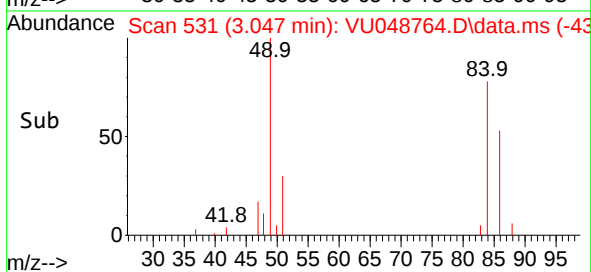
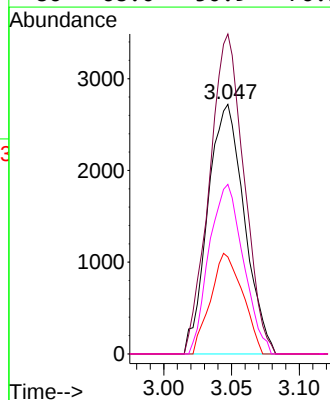
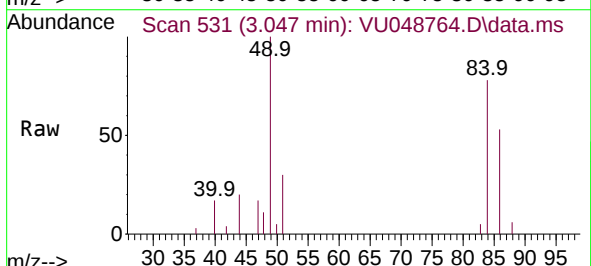
Ion Ratio Lower Upper

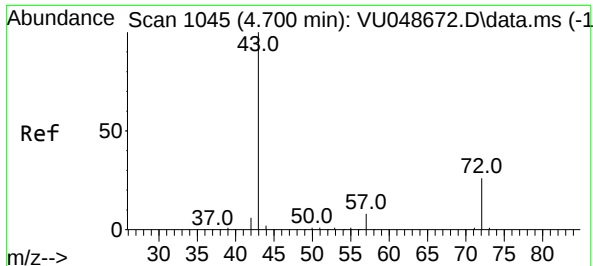
84 100

49 128.2 97.0 145.4

51 38.8 29.8 44.8

86 68.0 50.9 76.3





#25

2-Butanone

Concen: 3.095 ug/l

RT: 4.713 min Scan# 1049

Delta R.T. 0.013 min

Lab File: VU048764.D

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MSVOA\_U

ClientSampleId :

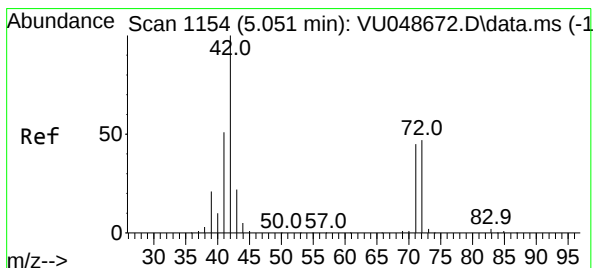
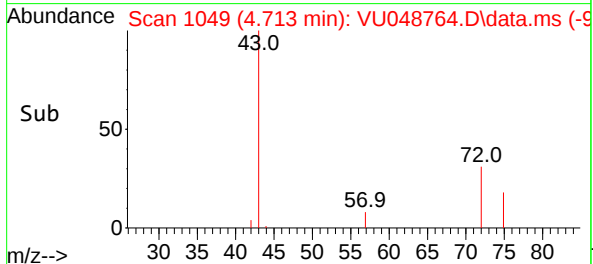
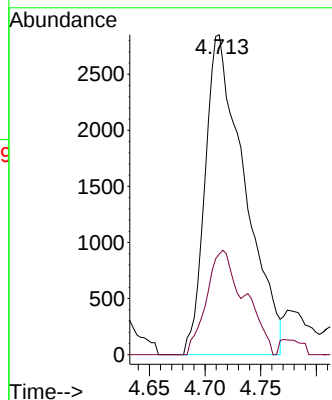
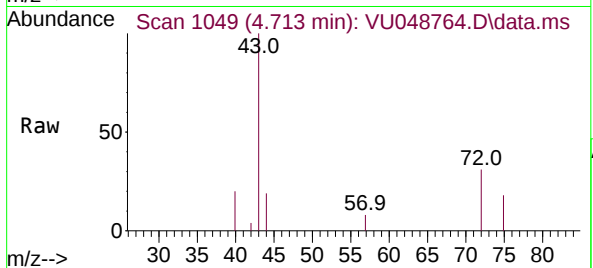
20220429-SPLP-AMENDED-COMPOSITE-I

Tgt Ion: 43 Resp: 7030

Ion Ratio Lower Upper

43 100

72 31.4 21.1 31.7



#29

Tetrahydrofuran

Concen: 0.747 ug/l

RT: 5.057 min Scan# 1156

Delta R.T. 0.006 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

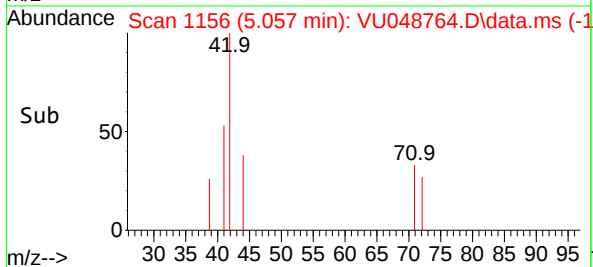
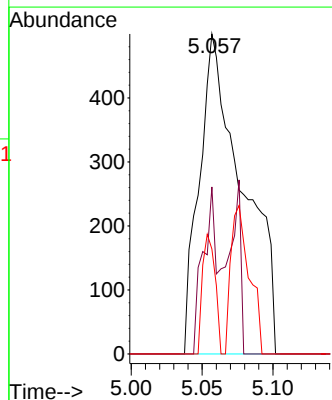
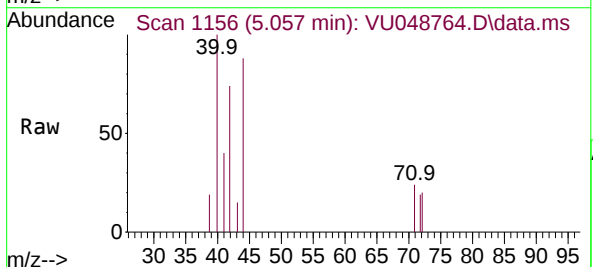
Tgt Ion: 42 Resp: 1068

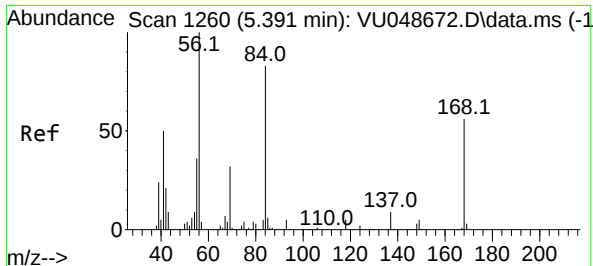
Ion Ratio Lower Upper

42 100

72 17.5 37.6 56.4#

71 10.8 35.0 52.4#

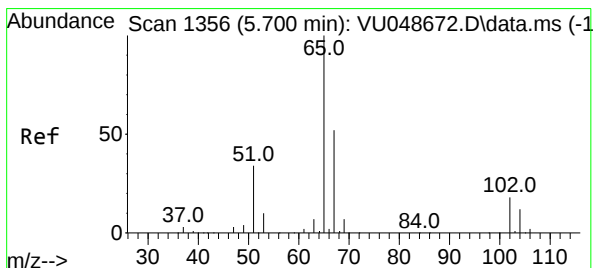
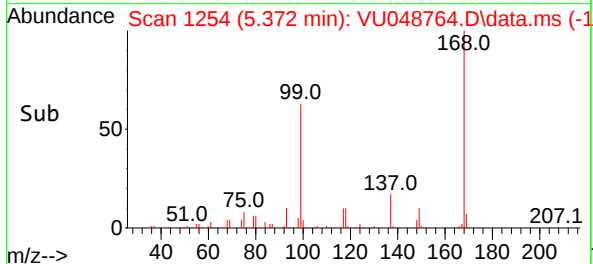
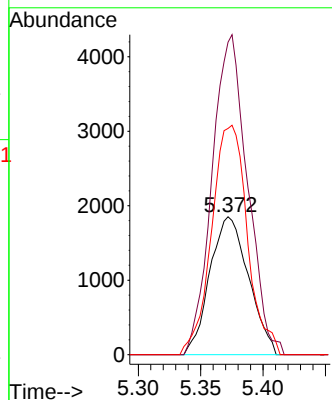
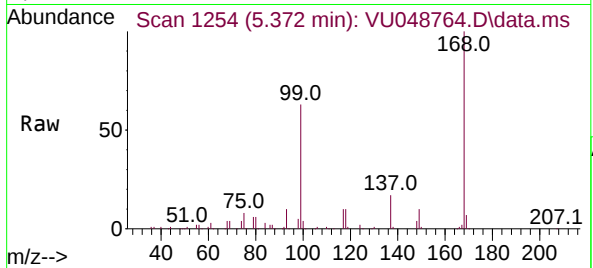




#31  
Cyclohexane  
Concen: 1.024 ug/l  
RT: 5.372 min Scan# 11  
Delta R.T. -0.019 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

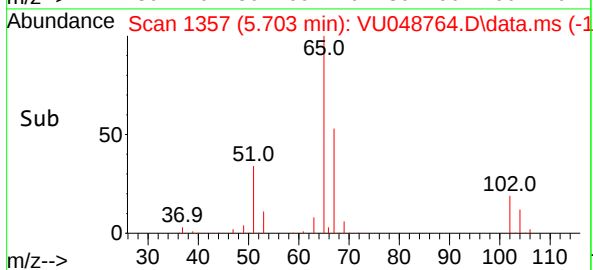
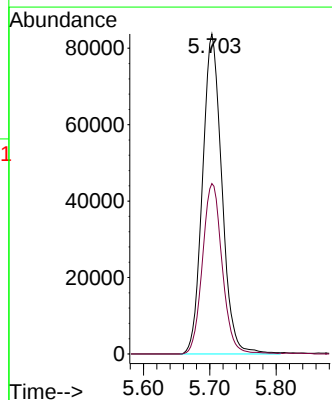
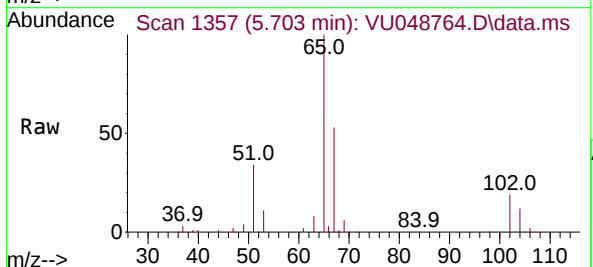
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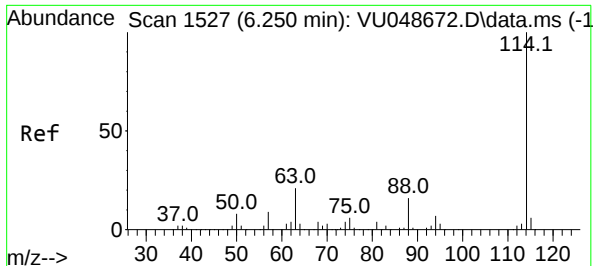
Tgt Ion: 56 Resp: 4004  
Ion Ratio Lower Upper  
56 100  
69 226.6 25.6 38.4#  
84 164.0 66.2 99.4#



#33  
1,2-Dichloroethane-d4  
Concen: 54.790 ug/l  
RT: 5.703 min Scan# 1357  
Delta R.T. 0.003 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

Tgt Ion: 65 Resp: 169977  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU048764.D

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Instrument :

MSVOA\_U

ClientSampleId :

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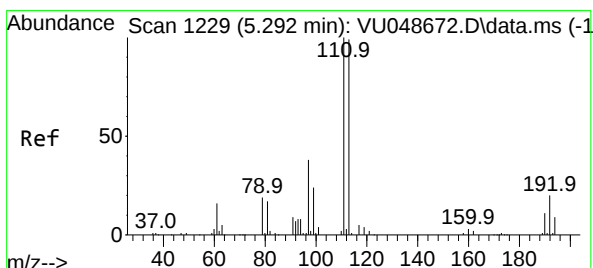
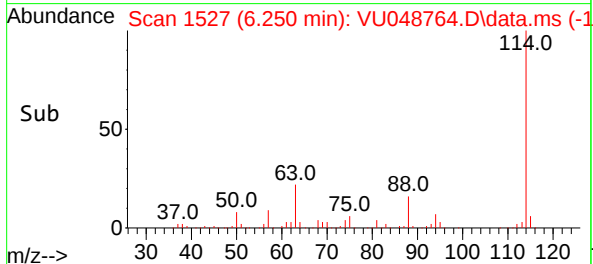
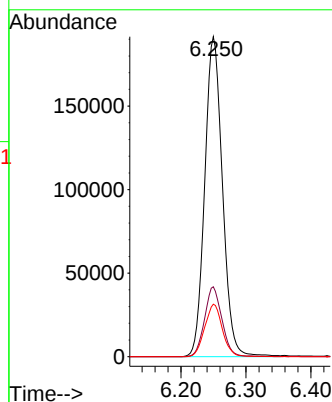
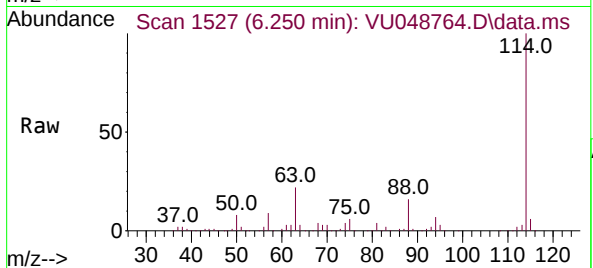
Tgt Ion:114 Resp: 364012

Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.6

88 16.4 0.0 32.2



#35

Dibromofluoromethane

Concen: 0.094 ug/l

RT: 5.288 min Scan# 1228

Delta R.T. -0.003 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

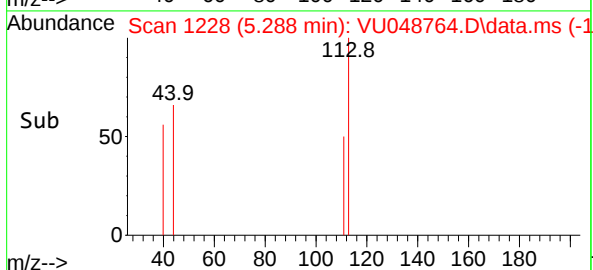
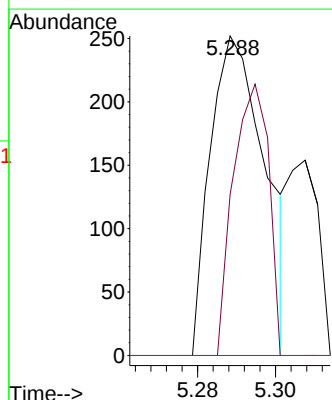
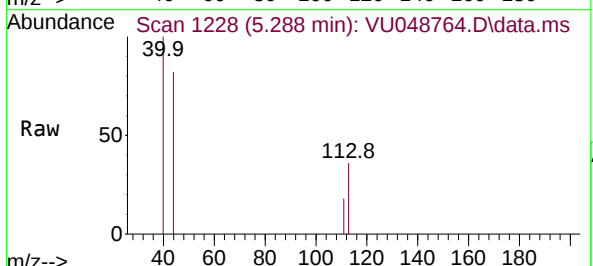
Tgt Ion:113 Resp: 245

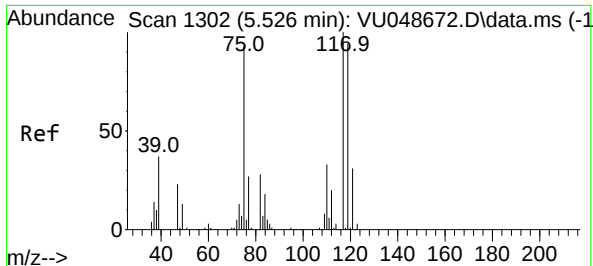
Ion Ratio Lower Upper

113 100

111 55.1 80.7 121.1#

192 0.0 15.9 23.9#





#36

1,1-Dichloropropene

Concen: 4.563 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU048764.D

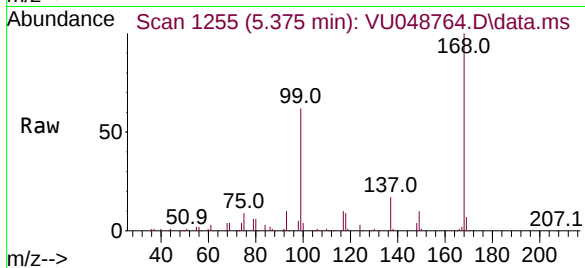
Acq: 01 Jun 2022 02:12

Instrument :

MSVOA\_U

ClientSampleId :

20220429-SPLP-AMENDED-COMPOSITE-I



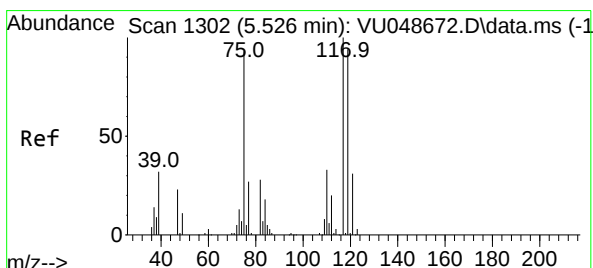
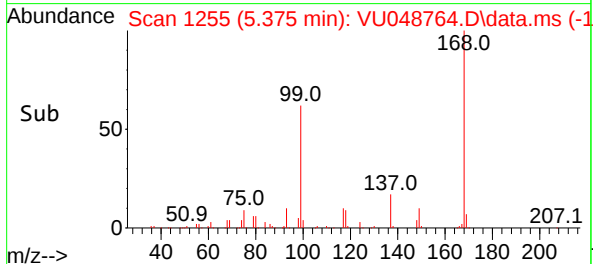
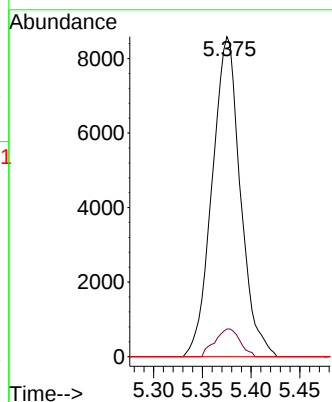
Tgt Ion: 75 Resp: 17293

Ion Ratio Lower Upper

75 100

110 7.7 17.4 52.3#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.931 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

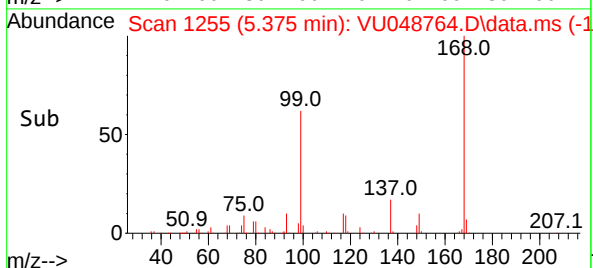
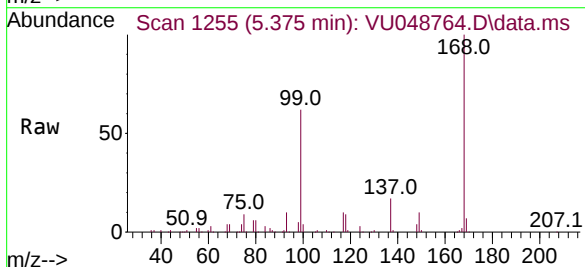
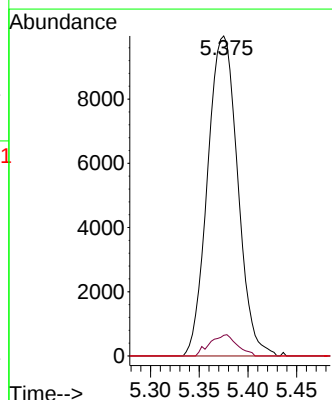
Tgt Ion: 117 Resp: 21440

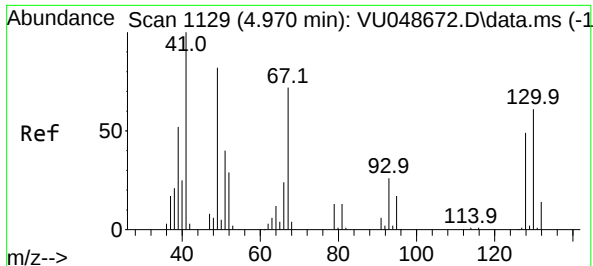
Ion Ratio Lower Upper

117 100

119 6.5 75.4 113.2#

121 0.0 24.6 36.8#

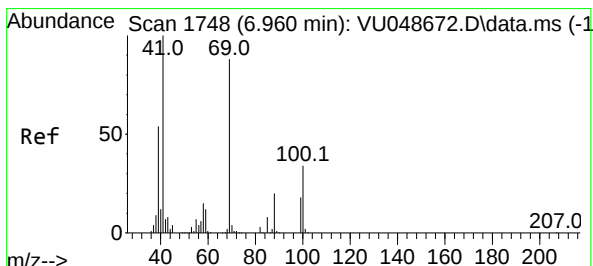
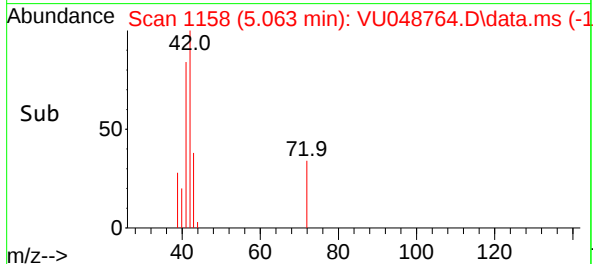
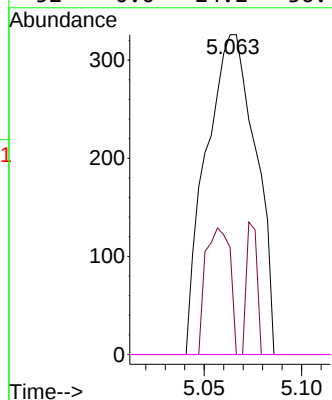
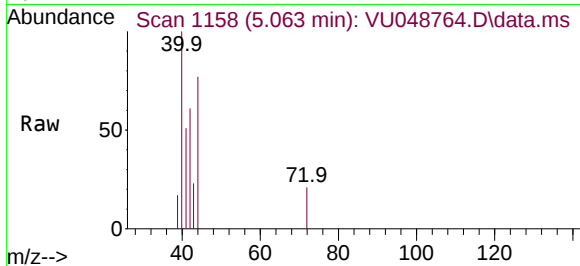




#41  
Methacrylonitrile  
Concen: 0.238 ug/l  
RT: 5.063 min Scan# 1129  
Delta R.T. 0.093 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

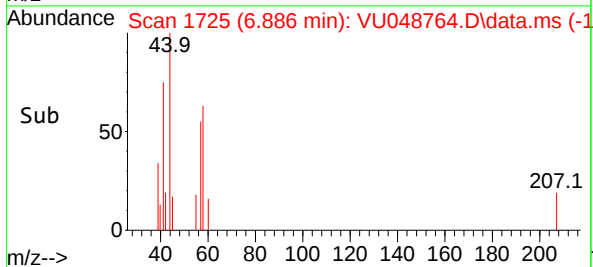
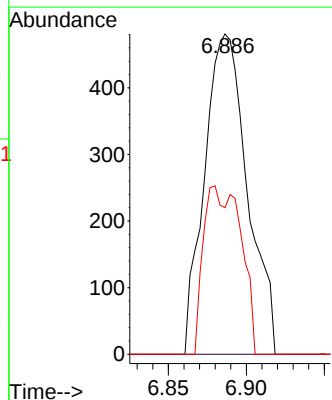
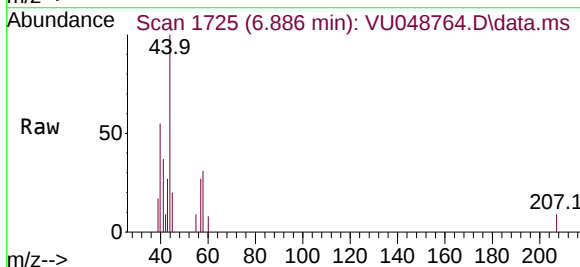
Instrument : MSVOA\_U  
ClientSampleId : 20220429-SPLP-AMENDED-COMPOSITE-I

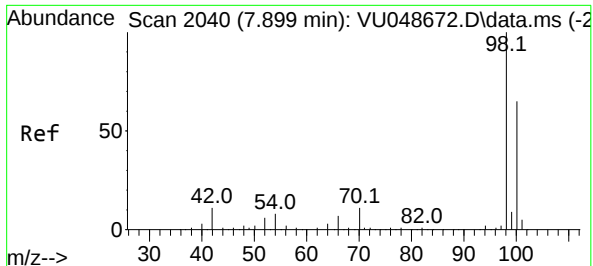
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 576   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 19.4     | 42.6 64.0#  |
| 67 0.0      | 61.0 91.4#  |
| 52 0.0      | 24.2 36.4#  |



#48  
Methyl methacrylate  
Concen: 0.295 ug/l  
RT: 6.886 min Scan# 1725  
Delta R.T. -0.074 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 922   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 0.0      | 70.7 106.1# |
| 39 26.6     | 43.4 65.2#  |

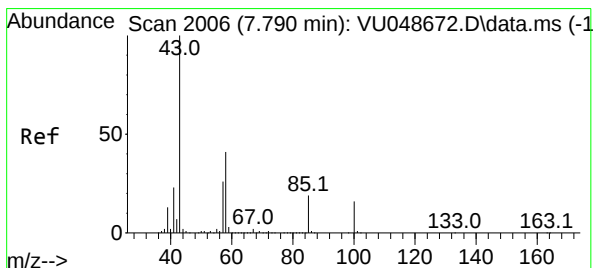
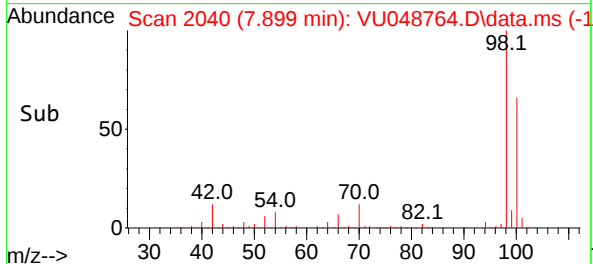
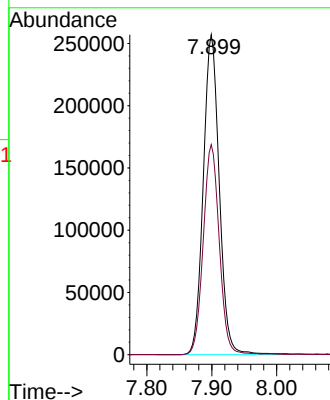
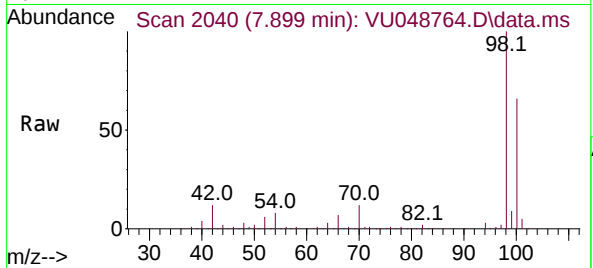




#50  
Toluene-d8  
Concen: 47.377 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. -0.000 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

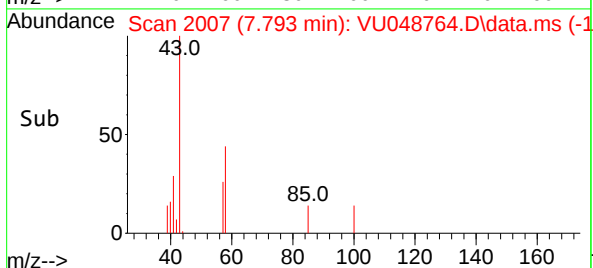
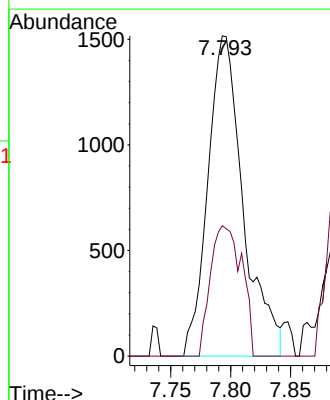
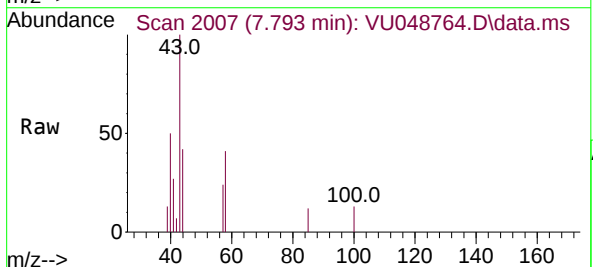
Instrument : MSVOA\_U  
ClientSampleId : 20220429-SPLP-AMENDED-COMPOSITE-I

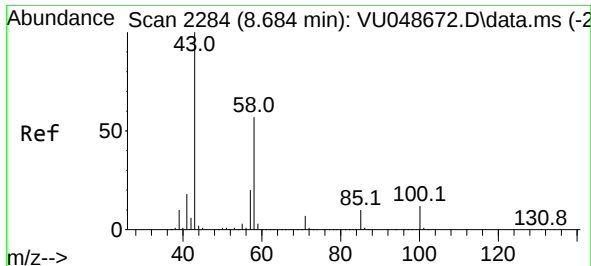
Tgt Ion: 98 Resp: 441033  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.2 78.4



#51  
4-Methyl-2-Pentanone  
Concen: 0.690 ug/l  
RT: 7.793 min Scan# 2007  
Delta R.T. 0.003 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

Tgt Ion: 43 Resp: 3114  
Ion Ratio Lower Upper  
43 100  
58 35.8 32.7 49.1





#59

2-Hexanone

Concen: 0.521 ug/l

RT: 8.690 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

Instrument :

MSVOA\_U

ClientSampleId :

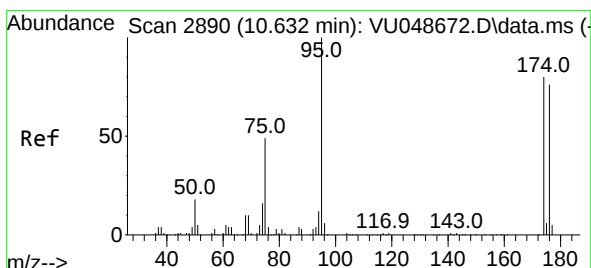
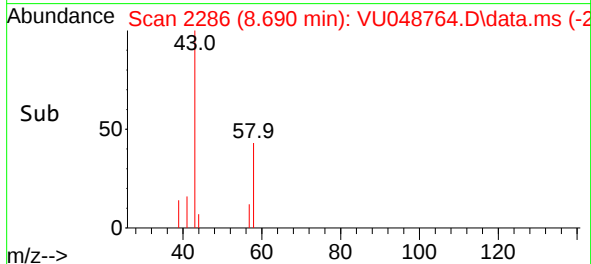
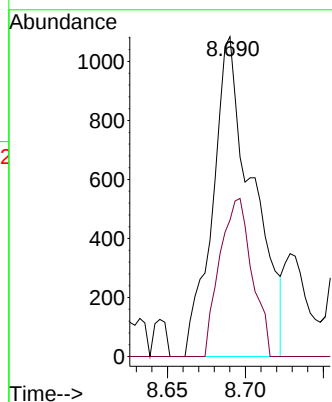
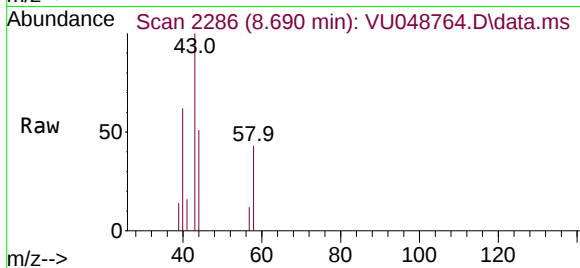
20220429-SPLP-AMENDED-COMPOSITE-I

Tgt Ion: 43 Resp: 1933

Ion Ratio Lower Upper

43 100

58 39.7 28.2 84.6



#62

4-Bromofluorobenzene

Concen: 45.613 ug/l

RT: 10.632 min Scan# 2890

Delta R.T. -0.000 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

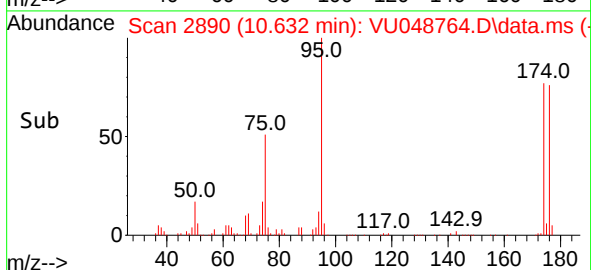
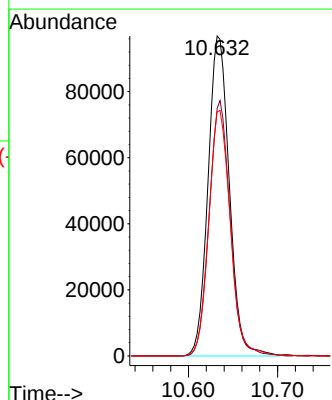
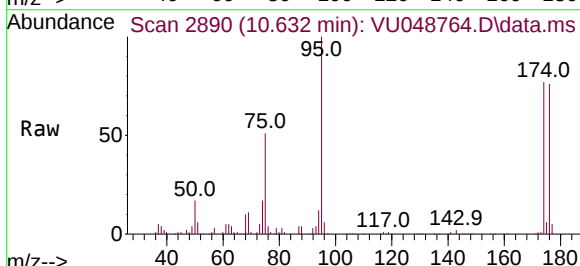
Tgt Ion: 95 Resp: 160587

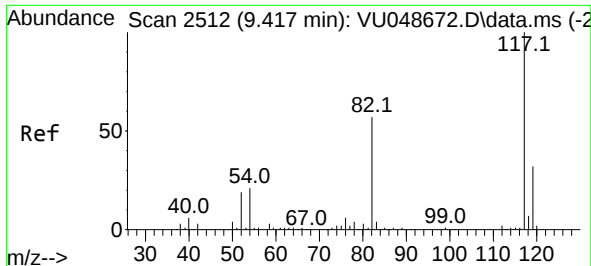
Ion Ratio Lower Upper

95 100

174 78.8 0.0 159.4

176 77.5 0.0 152.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.417 min Scan# 2

Delta R.T. -0.000 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

Instrument :

MSVOA\_U

ClientSampleId :

20220429-SPLP-AMENDED-COMPOSITE-I

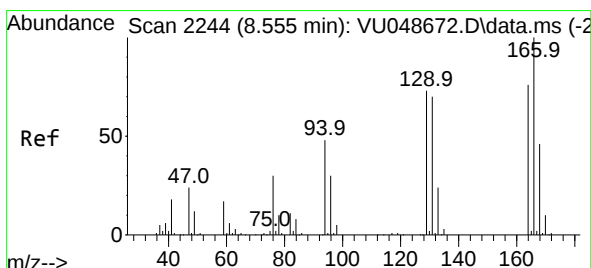
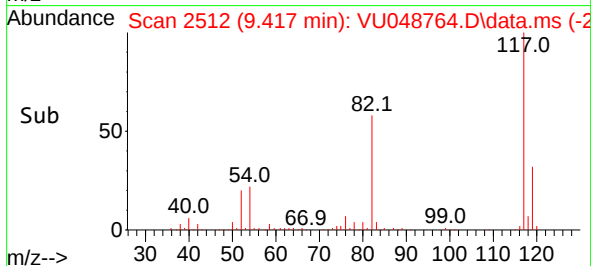
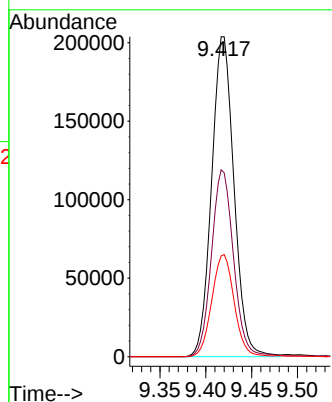
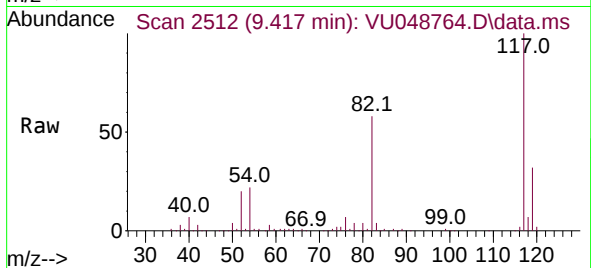
Tgt Ion:117 Resp: 345835

Ion Ratio Lower Upper

117 100

82 58.4 45.3 67.9

119 31.5 25.4 38.2



#64

Tetrachloroethene

Concen: Below Cal

RT: 8.555 min Scan# 2244

Delta R.T. 0.000 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

Tgt Ion:164 Resp: 64

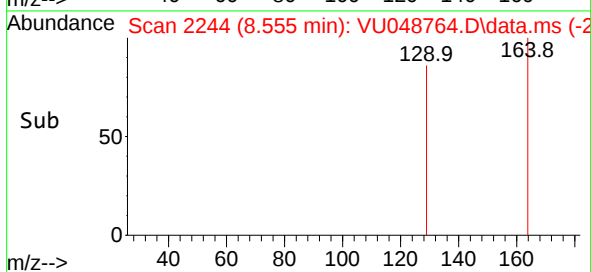
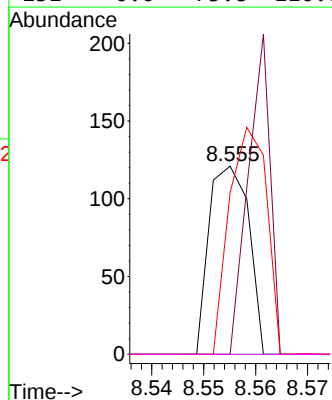
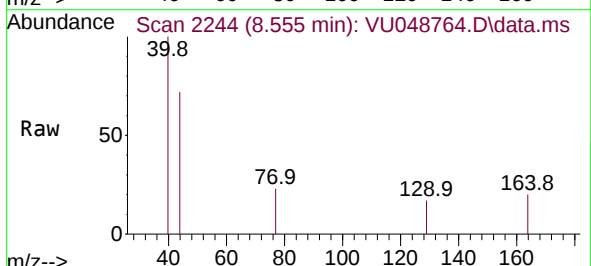
Ion Ratio Lower Upper

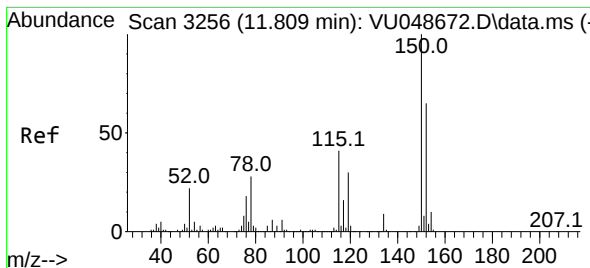
164 100

166 0.0 105.0 157.4#

129 86.0 76.5 114.7

131 0.0 73.8 110.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.812 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU048764.D

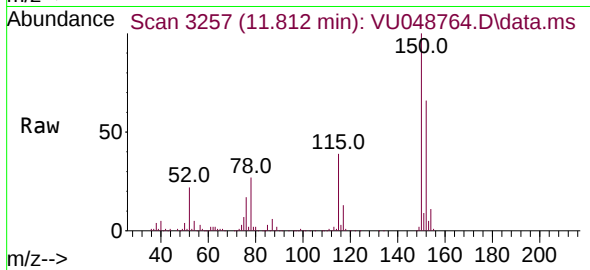
Acq: 01 Jun 2022 02:12

Instrument :

MSVOA\_U

ClientSampleId :

20220429-SPLP-AMENDED-COMPOSITE-I



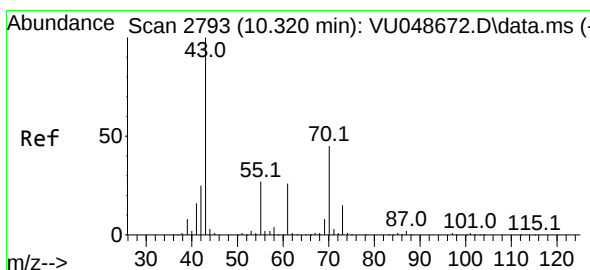
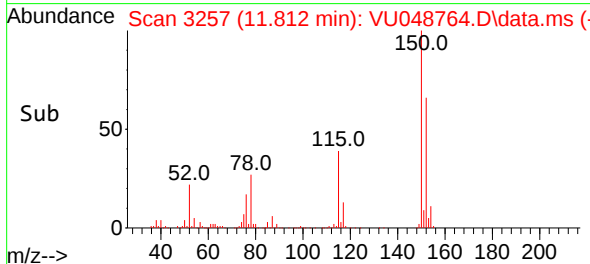
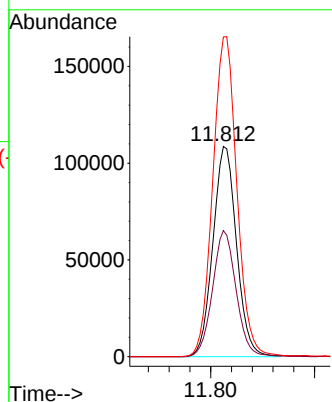
Tgt Ion:152 Resp: 171397

Ion Ratio Lower Upper

152 100

115 59.9 41.8 125.4

150 155.9 0.0 341.0



#74

N-ethyl acetate

Concen: 2.565 ug/l

RT: 10.336 min Scan# 2798

Delta R.T. 0.016 min

Lab File: VU048764.D

Acq: 01 Jun 2022 02:12

Tgt Ion: 43 Resp: 578

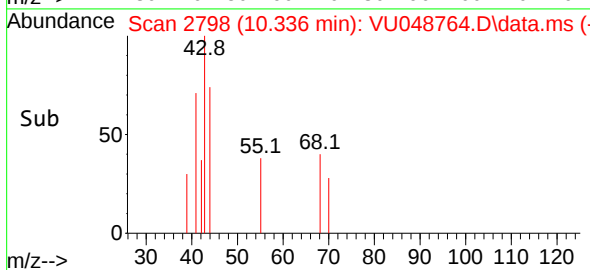
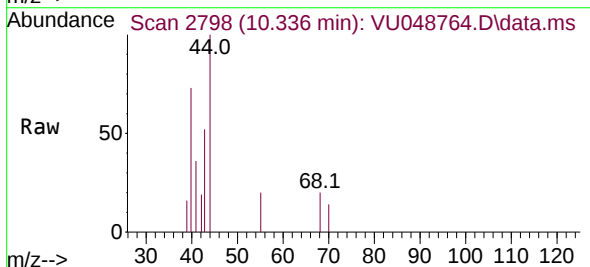
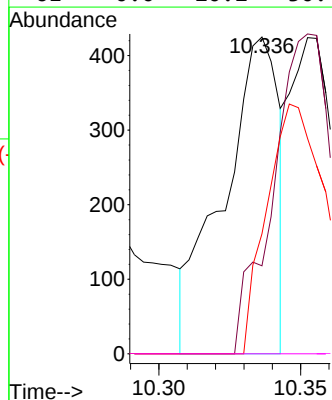
Ion Ratio Lower Upper

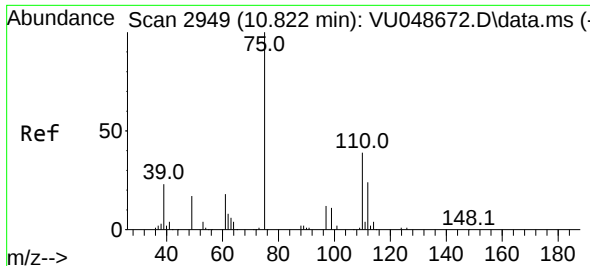
43 100

70 0.0 35.8 53.6#

55 0.0 21.1 31.7#

61 0.0 20.2 30.4#

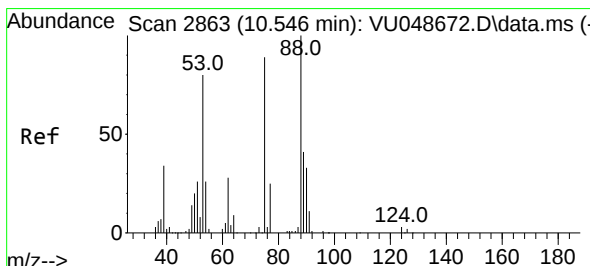
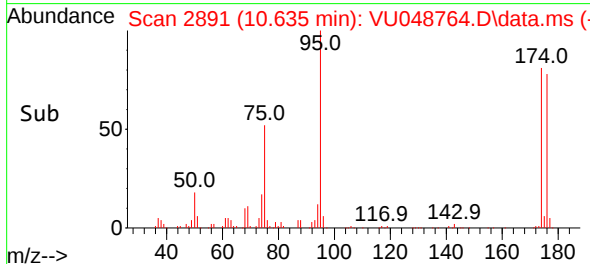
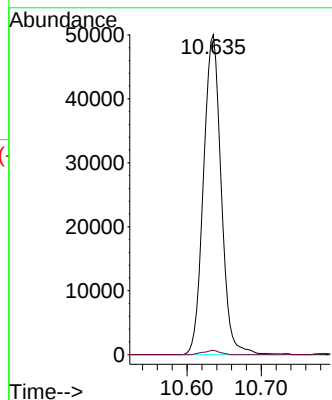
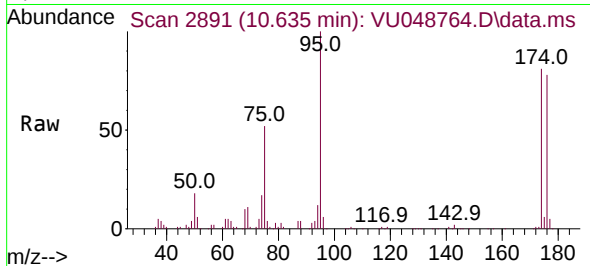




#76  
1,2,3-Trichloropropane  
Concen: 14.978 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. -0.187 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

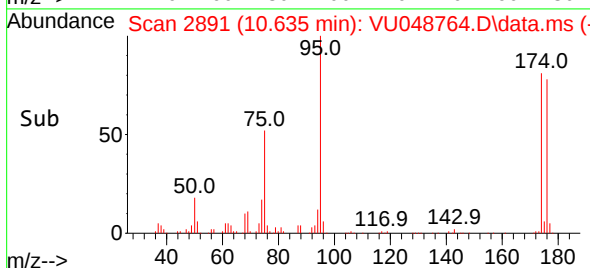
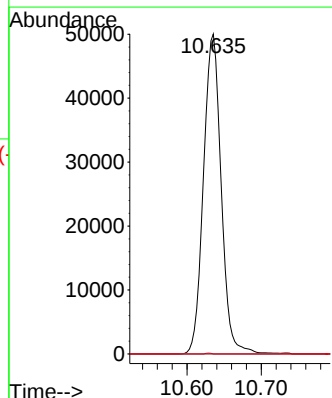
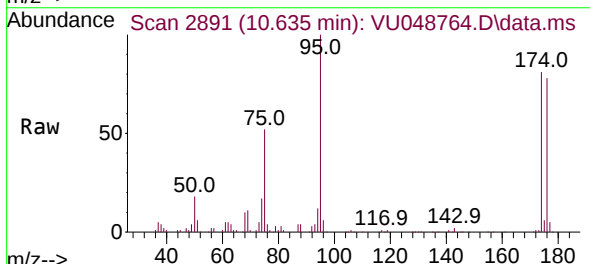
Instrument : MSVOA\_U  
ClientSampleId : 20220429-SPLP-AMENDED-COMPOSITE-I

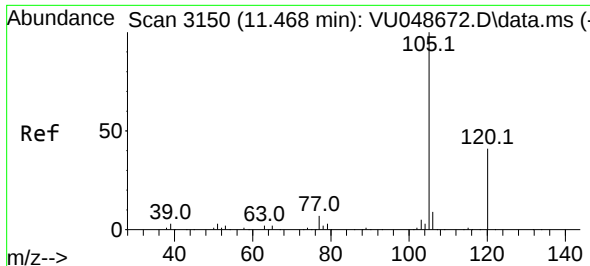
Tgt Ion: 75 Resp: 82773  
Ion Ratio Lower Upper  
75 100  
77 1.3 14.8 44.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.384 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. 0.090 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

Tgt Ion: 75 Resp: 82773  
Ion Ratio Lower Upper  
75 100  
53 0.1 72.5 108.7#  
89 0.0 37.0 55.4#

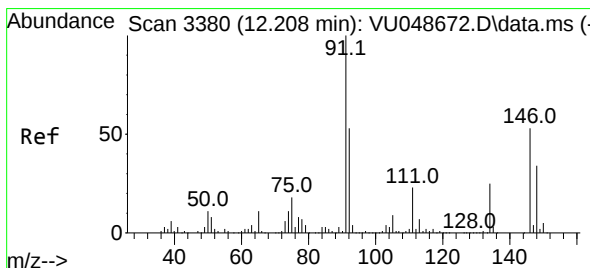
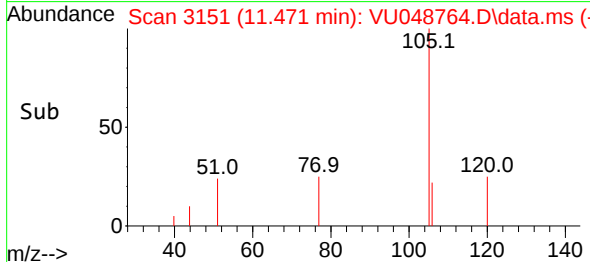
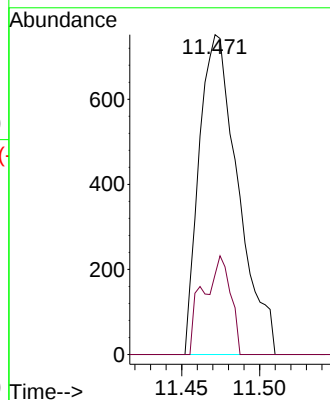
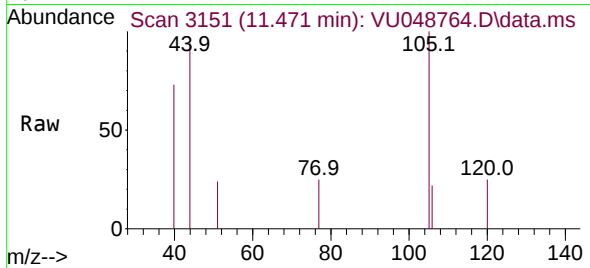




#84  
1,2,4-Trimethylbenzene  
Concen: 1.310 ug/l  
RT: 11.471 min Scan# 3150  
Delta R.T. 0.003 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

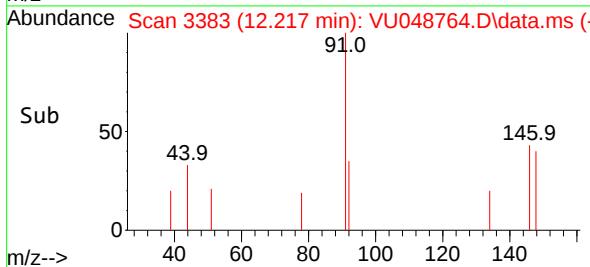
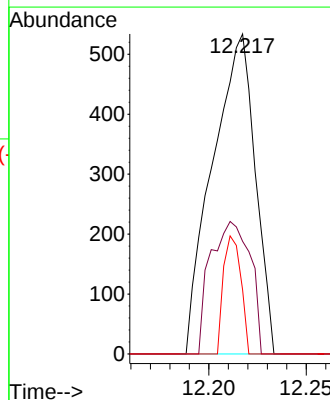
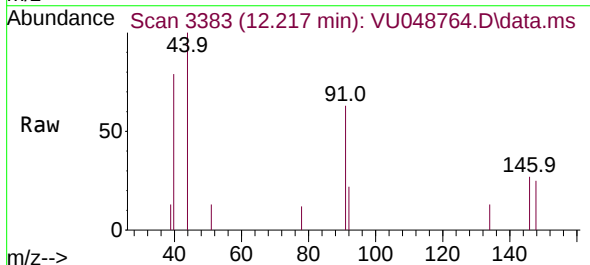
Instrument : MSVOA\_U  
ClientSampleId : 20220429-SPLP-AMENDED-COMPOSITE-I

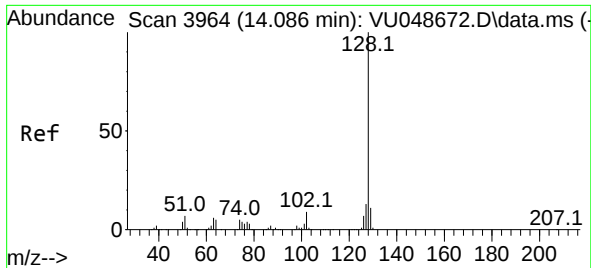
Tgt Ion:105 Resp: 1303  
Ion Ratio Lower Upper  
105 100  
120 13.0 22.5 67.5#



#89  
n-Butylbenzene  
Concen: 2.264 ug/l  
RT: 12.217 min Scan# 3383  
Delta R.T. 0.009 min  
Lab File: VU048764.D  
Acq: 01 Jun 2022 02:12

Tgt Ion: 91 Resp: 812  
Ion Ratio Lower Upper  
91 100  
92 38.5 25.9 77.8  
134 15.0 12.5 37.5





#95

Naphthalene

Concen: 2.846 ug/l

RT: 14.095 min Scan# 3967

Delta R.T. 0.009 min

Lab File: VU048764.D

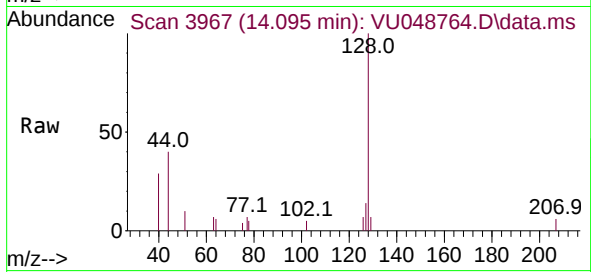
Acq: 01 Jun 2022 02:12

Instrument :

MSVOA\_U

ClientSampleId :

20220429-SPLP-AMENDED-COMPOSITE-I



Tgt Ion:128 Resp: 4451

Ion Ratio Lower Upper

128 100

127 11.6 10.2 15.4

129 4.0 8.7 13.1#

