

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060822\  
 Data File : VU048963.D  
 Acq On : 08 Jun 2022 15:30  
 Operator : SY/MD  
 Sample : N3166-19  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

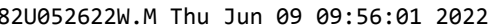
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DUP07-20220601

Quant Time: Jun 09 09:55:51 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         | 5.372     | 168   | 243140   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.247     | 114   | 403957   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.417     | 117   | 373548   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812    | 152   | 167673   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.700     | 65    | 186844   | 51.169    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery  | =      | 102.340% |
| 35) Dibromofluoromethane      | 5.288     | 113   | 140589   | 48.783    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | =      | 97.560%  |
| 50) Toluene-d8                | 7.899     | 98    | 497833   | 48.190    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery  | =      | 96.380%  |
| 62) 4-Bromofluorobenzene      | 10.632    | 95    | 181375   | 46.424    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | =      | 92.840%  |
| Target Compounds              |           |       |          |           |        |          |
|                               |           |       |          |           |        | Qvalue   |
| 3) Chloromethane              | 1.520     | 50    | 901      | 0.251     | ug/l # | 78       |
| 5) Bromomethane               | 1.826     | 94    | 156      | Below Cal | #      | 56       |
| 6) Chloroethane               | 1.919     | 64    | 254      | Below Cal |        | 94       |
| 11) Tert butyl alcohol        | 3.186     | 59    | 5591     | 6.039     | ug/l # | 28       |
| 13) Acrolein                  | 2.475     | 56    | 219      | Below Cal | #      | 56       |
| 14) Allyl chloride            | 2.774     | 41    | 3776     | 0.788     | ug/l # | 74       |
| 16) Acetone                   | 2.626     | 43    | 8435     | 4.533     | ug/l   | 99       |
| 18) Methyl Acetate            | 2.951     | 43    | 2562     | 0.548     | ug/l # | 83       |
| 25) 2-Butanone                | 4.719     | 43    | 4406     | 1.648     | ug/l   | 95       |
| 29) Tetrahydrofuran           | 5.060     | 42    | 2038     | 1.210     | ug/l # | 65       |
| 31) Cyclohexane               | 5.369     | 56    | 5510     | 1.197     | ug/l # | 6        |
| 36) 1,1-Dichloropropene       | 5.369     | 75    | 20014    | 4.758     | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.803     | 43    | 37365    | 7.027     | ug/l   | 100      |
| 38) Carbon Tetrachloride      | 5.372     | 117   | 26081    | 5.405     | ug/l # | 17       |
| 41) Methacrylonitrile         | 5.070     | 41    | 1169     | 0.435     | ug/l # | 38       |
| 44) Trichloroethene           | 6.539     | 130   | 874      | 0.273     | ug/l   | 77       |
| 51) 4-Methyl-2-Pentanone      | 7.796     | 43    | 1643     | 0.328     | ug/l # | 76       |
| 59) 2-Hexanone                | 8.690     | 43    | 903      | 0.219     | ug/l   | 83       |
| 74) N-amyl acetate            | 10.317    | 43    | 158      | 2.494     | ug/l # | 41       |
| 76) 1,2,3-Trichloropropane    | 10.632    | 75    | 95442    | 17.654    | ug/l # | 47       |
| 81) trans-1,4-Dichloro-2-b... | 10.632    | 75    | 95442    | 64.100    | ug/l # | 13       |
| 84) 1,2,4-Trimethylbenzene    | 11.472    | 105   | 317      | 1.217     | ug/l # | 55       |
| 89) n-Butylbenzene            | 12.214    | 91    | 539      | 2.238     | ug/l # | 56       |
| 95) Naphthalene               | 14.098    | 128   | 2989     | 2.748     | ug/l # | 86       |
| -----                         |           |       |          |           |        |          |

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

Quant Time: Jun 09 09:55:51 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

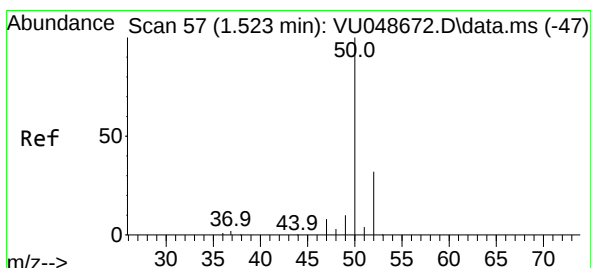
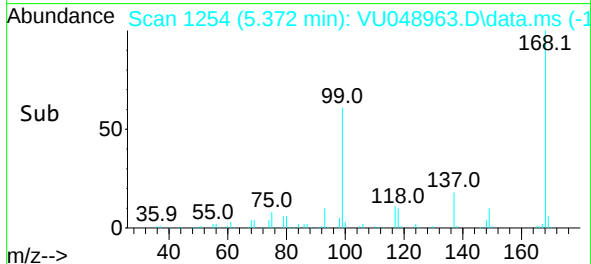
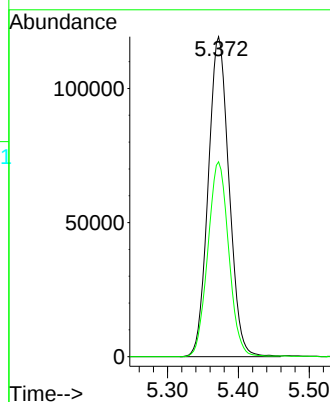
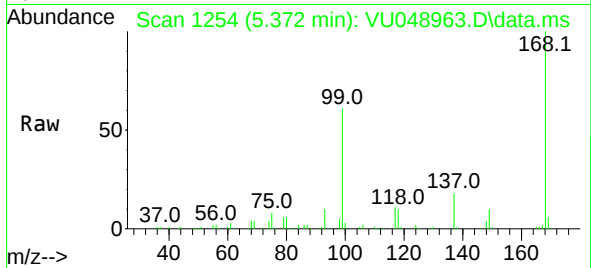




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.372 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

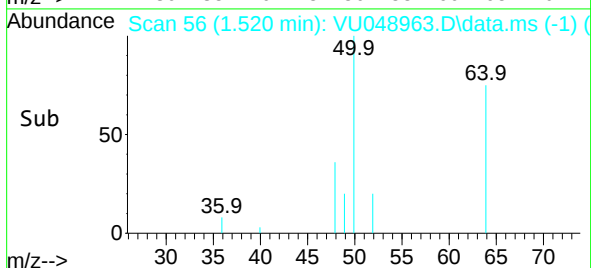
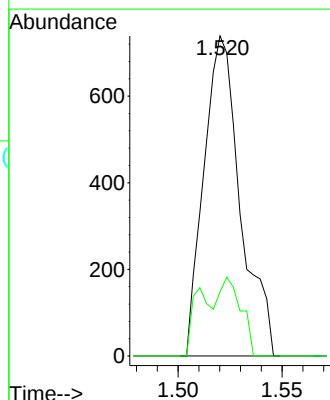
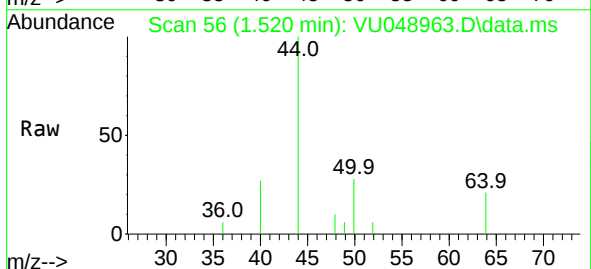
Instrument :  
MSVOA\_U  
ClientSampleId :  
DUP07-20220601

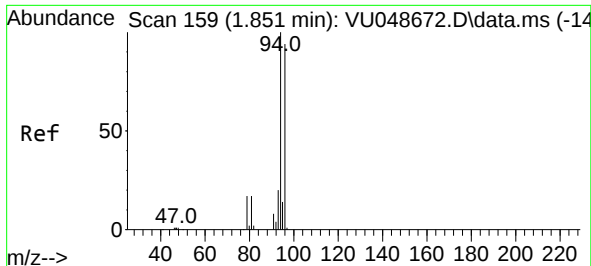
Tgt Ion:168 Resp: 243140  
Ion Ratio Lower Upper  
168 100  
99 60.9 49.3 73.9



#3  
Chloromethane  
Concen: 0.251 ug/l  
RT: 1.520 min Scan# 56  
Delta R.T. -0.003 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

Tgt Ion: 50 Resp: 901  
Ion Ratio Lower Upper  
50 100  
52 20.0 25.7 38.5#

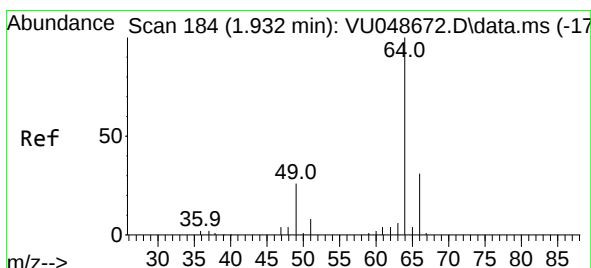
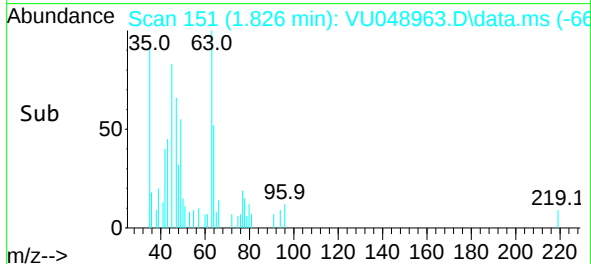
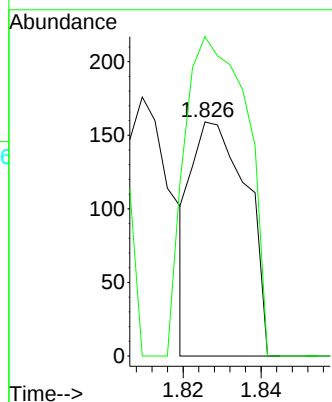
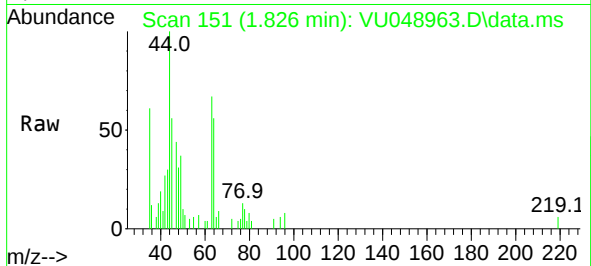




#5  
Bromomethane  
Concen: Below Cal  
RT: 1.826 min Scan# 11  
Delta R.T. -0.025 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

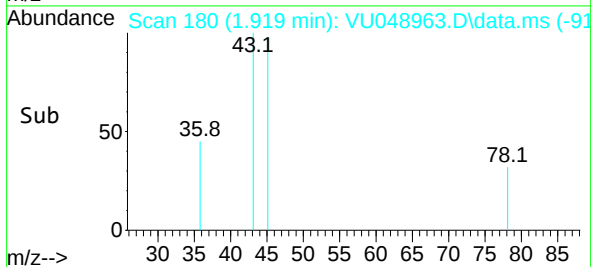
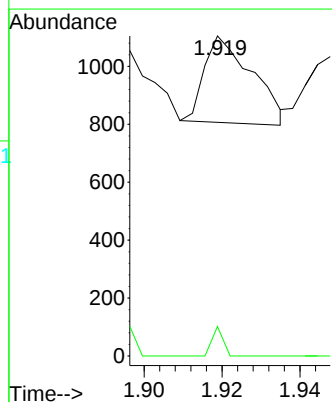
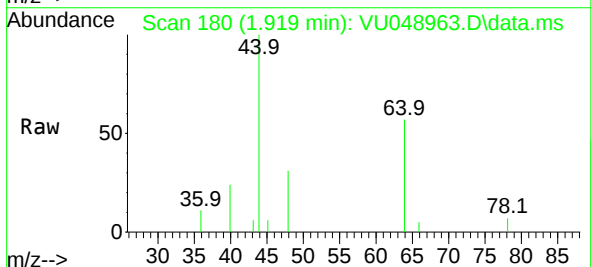
Instrument :  
MSVOA\_U  
ClientSampleId :  
DUP07-20220601

Tgt Ion: 94 Resp: 156  
Ion Ratio Lower Upper  
94 100  
96 136.5 75.1 112.7#



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.919 min Scan# 180  
Delta R.T. -0.013 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

Tgt Ion: 64 Resp: 254  
Ion Ratio Lower Upper  
64 100  
66 34.9 25.2 37.8

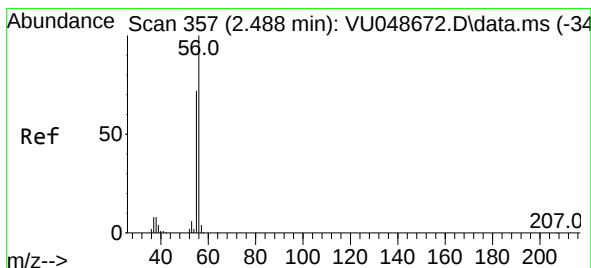
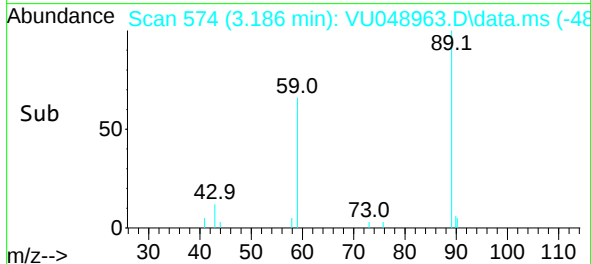
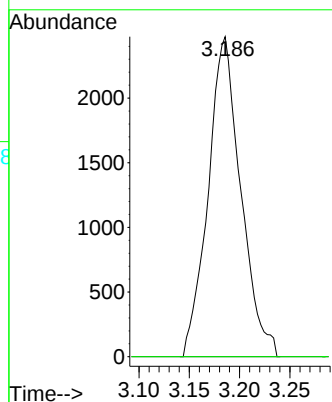
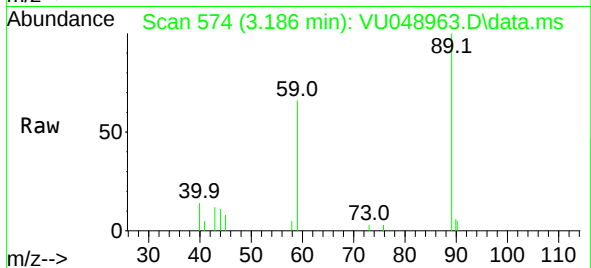




#11  
Tert butyl alcohol  
Concen: 6.039 ug/l  
RT: 3.186 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

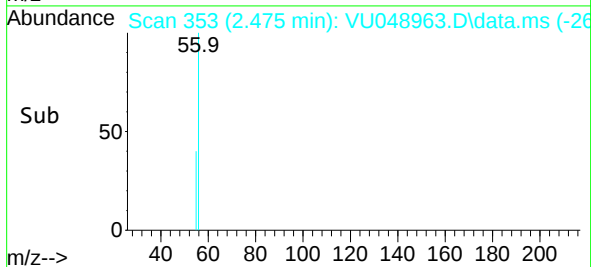
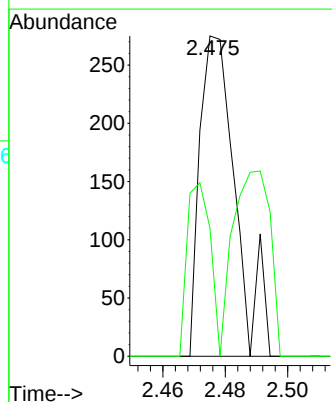
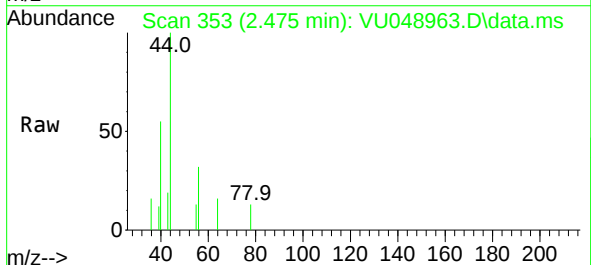
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ClientSampleId :  
DUP07-20220601

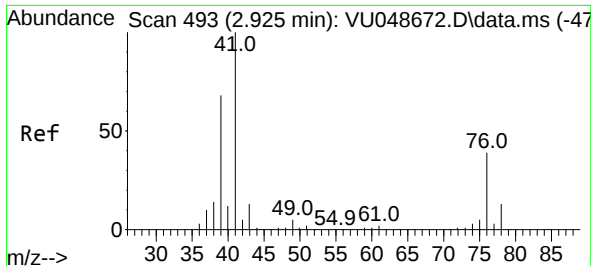
Tgt Ion: 59 Resp: 5591  
Ion Ratio Lower Upper  
59 100  
57 0.0 39.7 59.5#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.475 min Scan# 353  
Delta R.T. -0.013 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

Tgt Ion: 56 Resp: 219  
Ion Ratio Lower Upper  
56 100  
55 35.2 57.7 86.5#

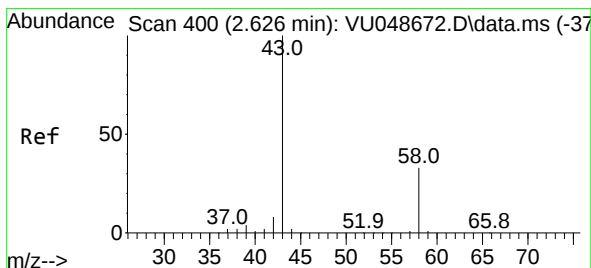
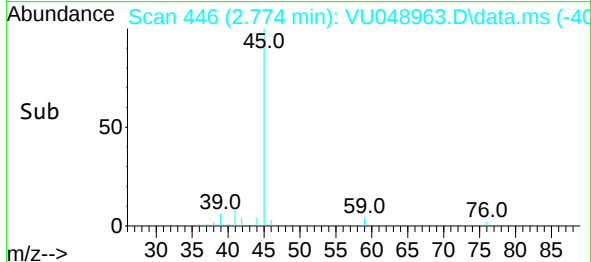
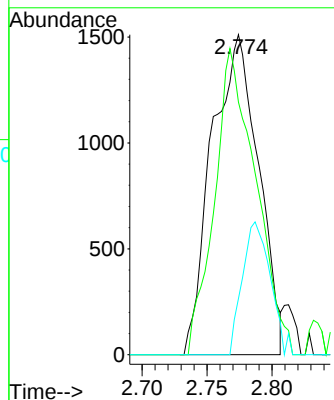
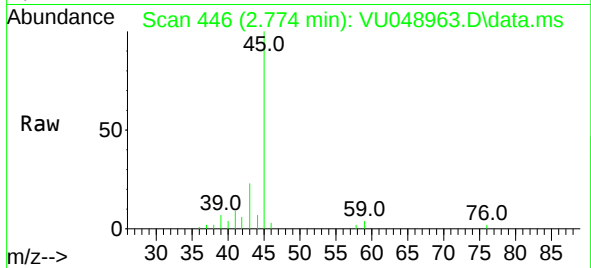




#14  
 Allyl chloride  
 Concen: 0.788 ug/l  
 RT: 2.774 min Scan# 41  
 Delta R.T. -0.151 min  
 Lab File: VU048963.D  
 Acq: 08 Jun 2022 15:30

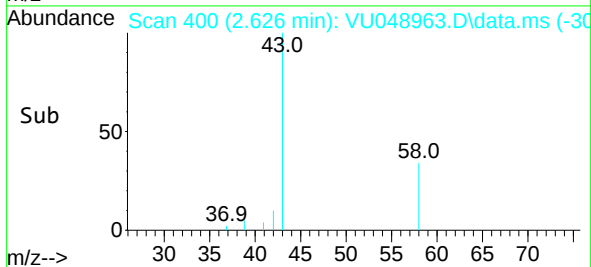
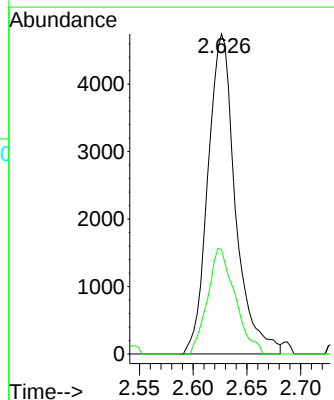
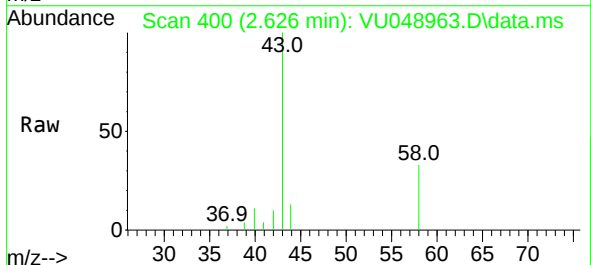
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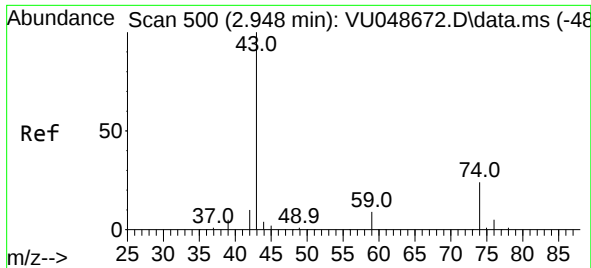
Tgt Ion: 41 Resp: 3776  
 Ion Ratio Lower Upper  
 41 100  
 39 84.5 48.6 72.8#  
 76 24.9 27.0 40.4#



#16  
 Acetone  
 Concen: 4.533 ug/l  
 RT: 2.626 min Scan# 400  
 Delta R.T. -0.000 min  
 Lab File: VU048963.D  
 Acq: 08 Jun 2022 15:30

Tgt Ion: 43 Resp: 8435  
 Ion Ratio Lower Upper  
 43 100  
 58 32.6 26.3 39.5

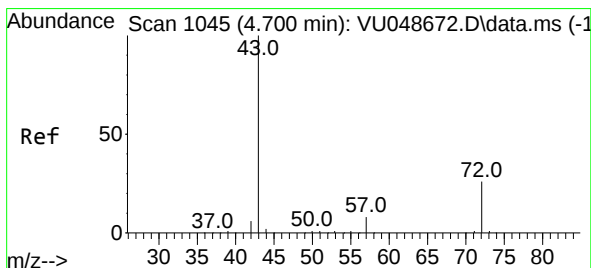
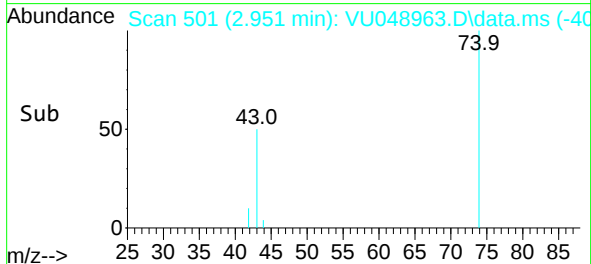
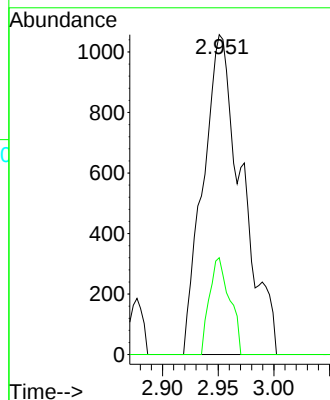
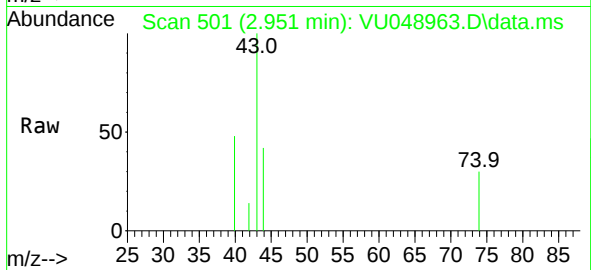




#18  
Methyl Acetate  
Concen: 0.548 ug/l  
RT: 2.951 min Scan# 501  
Delta R.T. 0.003 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

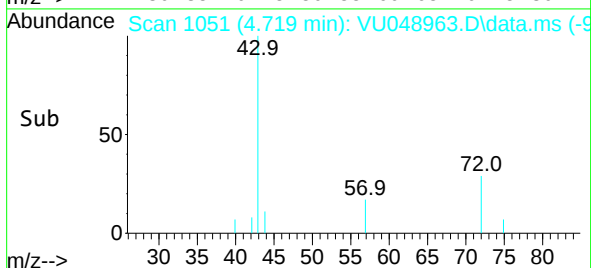
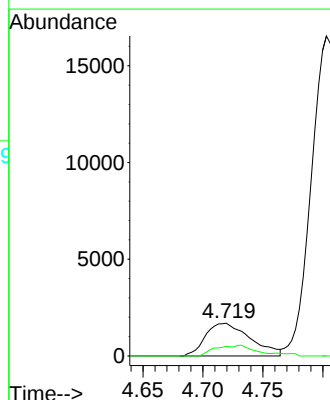
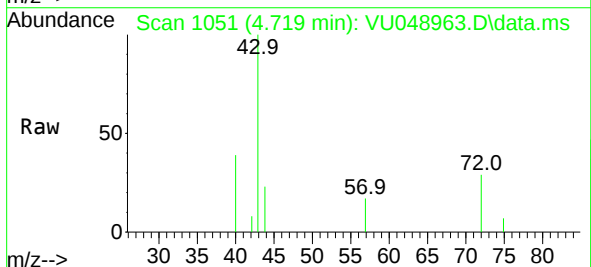
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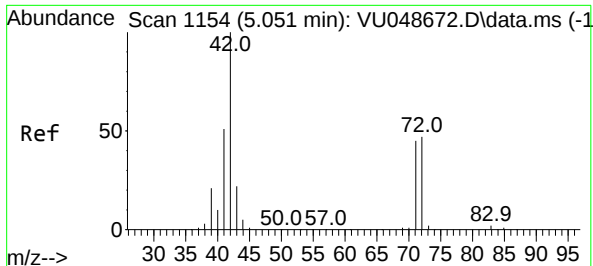
Tgt Ion: 43 Resp: 2562  
Ion Ratio Lower Upper  
43 100  
74 15.8 19.2 28.8#



#25  
2-Butanone  
Concen: 1.648 ug/l  
RT: 4.719 min Scan# 1051  
Delta R.T. 0.019 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

Tgt Ion: 43 Resp: 4406  
Ion Ratio Lower Upper  
43 100  
72 29.2 21.1 31.7

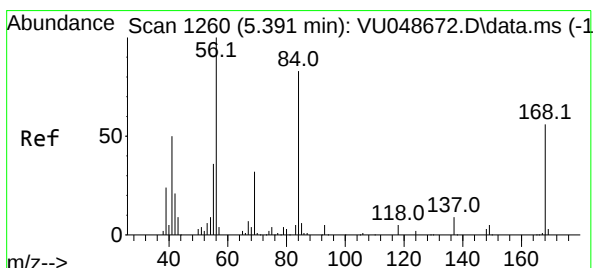
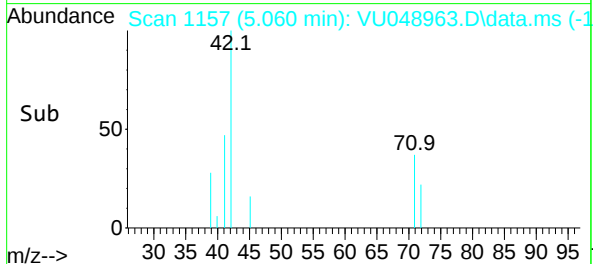
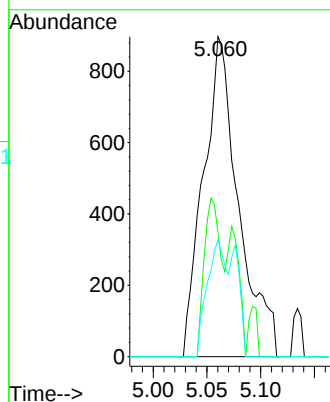
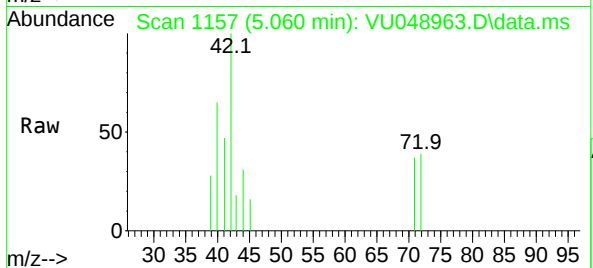




#29  
Tetrahydrofuran  
Concen: 1.210 ug/l  
RT: 5.060 min Scan# 1154  
Delta R.T. 0.010 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

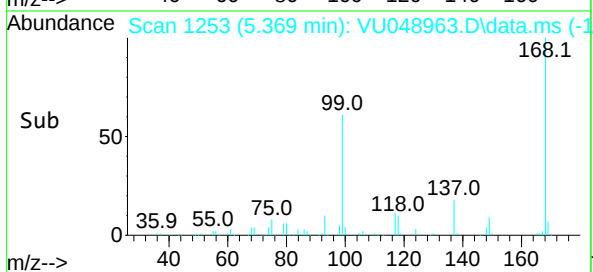
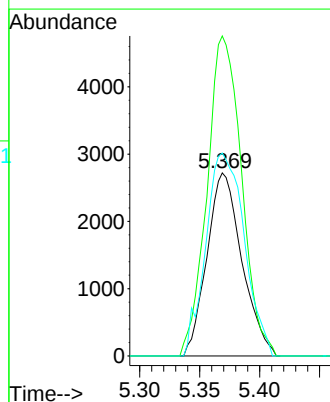
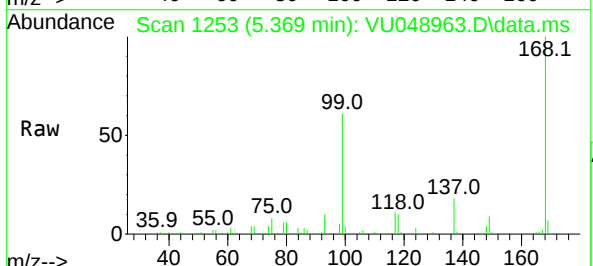
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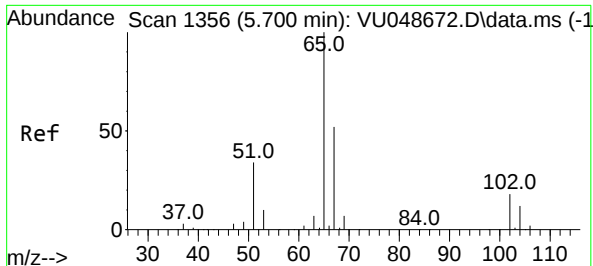
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|-------------|-------------|
| Tgt Ion: 42 | Resp: 2038  |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 24.0     | 37.6 56.4#  |
| 71 20.2     | 35.0 52.4#  |



#31  
Cyclohexane  
Concen: 1.197 ug/l  
RT: 5.369 min Scan# 1253  
Delta R.T. -0.023 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 56 | Resp: 5510 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 56 100      |            |       |  |
| 69 174.9    | 25.6       | 38.4# |  |
| 84 110.9    | 66.2       | 99.4# |  |





#33

1,2-Dichloroethane-d4

Concen: 51.169 ug/l

RT: 5.700 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

Instrument :

MSVOA\_U

ClientSampleId :

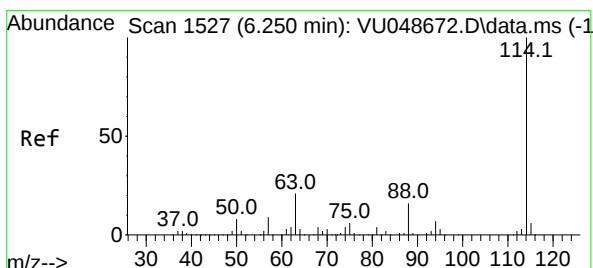
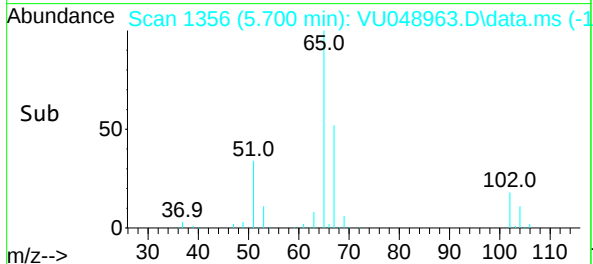
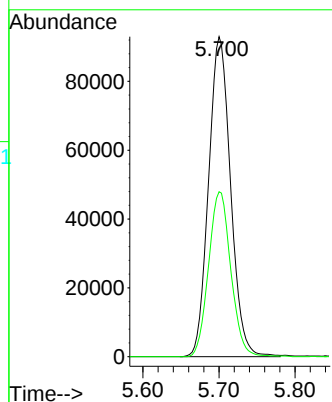
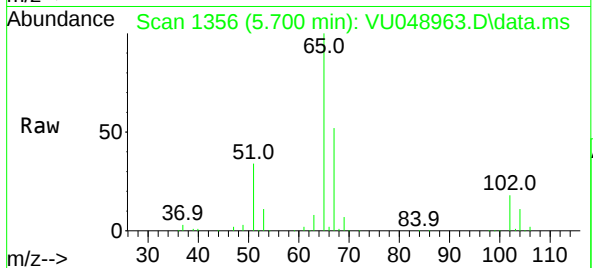
DUP07-20220601

Tgt Ion: 65 Resp: 186844

Ion Ratio Lower Upper

65 100

67 52.1 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.247 min Scan# 1526

Delta R.T. -0.003 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

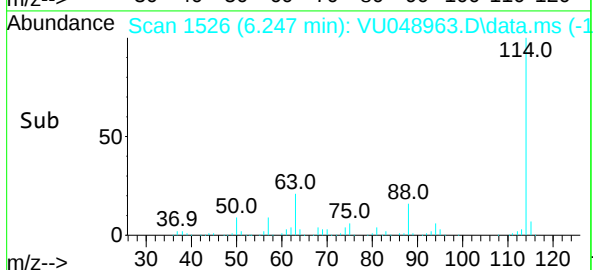
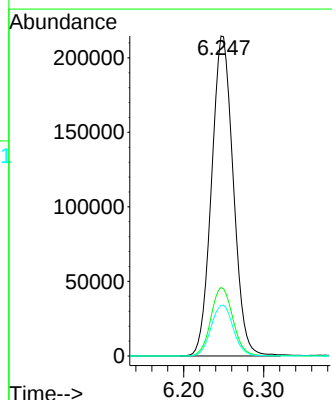
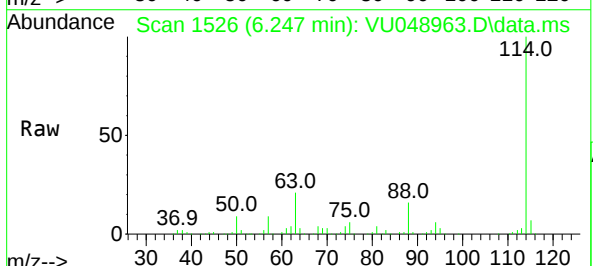
Tgt Ion: 114 Resp: 403957

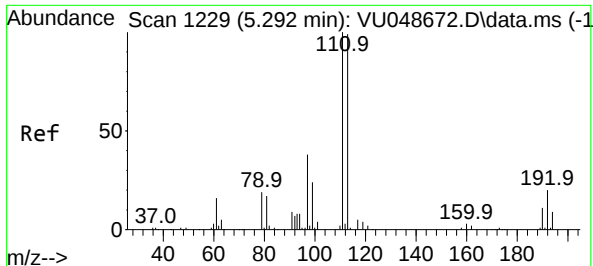
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.6

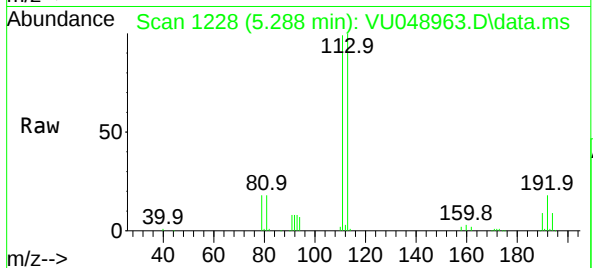
88 15.8 0.0 32.2



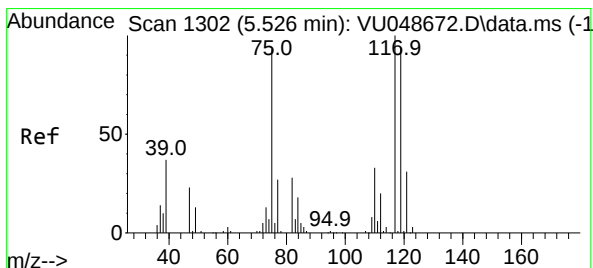
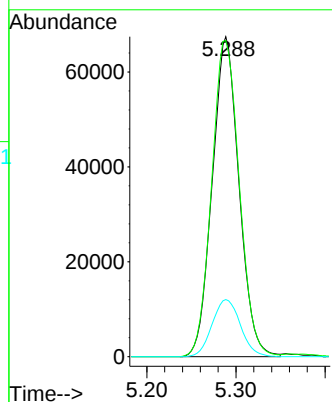
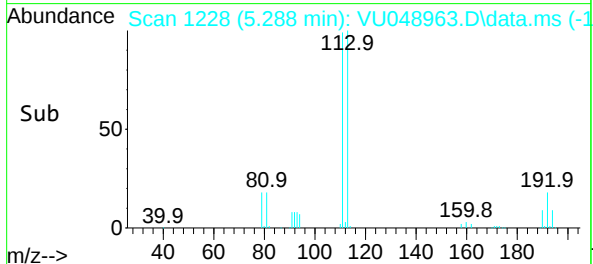


#35  
Dibromofluoromethane  
Concen: 48.783 ug/l  
RT: 5.288 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

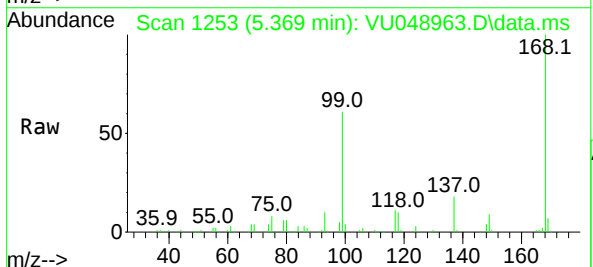
Instrument :  
MSVOA\_U  
ClientSampleId :  
DUP07-20220601



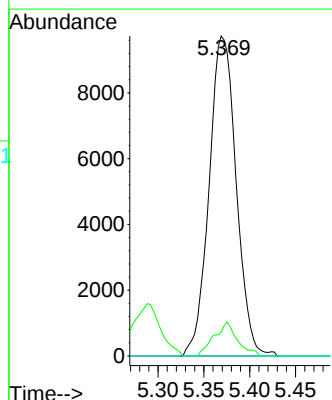
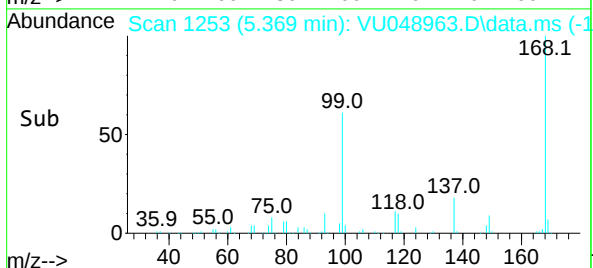
Tgt Ion:113 Resp: 140589  
Ion Ratio Lower Upper  
113 100  
111 102.2 80.7 121.1  
192 18.9 15.9 23.9

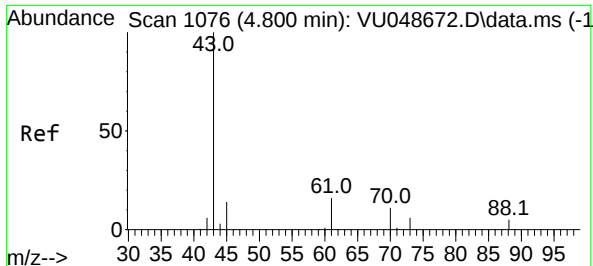


#36  
1,1-Dichloropropene  
Concen: 4.758 ug/l  
RT: 5.369 min Scan# 1253  
Delta R.T. -0.158 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30



Tgt Ion: 75 Resp: 20014  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.4 52.3#  
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 7.027 ug/l

RT: 4.803 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

Instrument :

MSVOA\_U

ClientSampleId :

DUP07-20220601

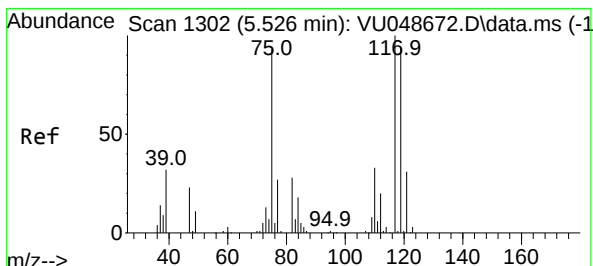
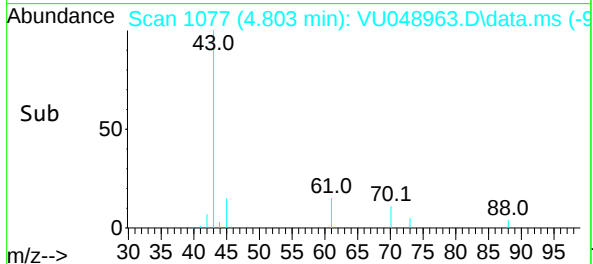
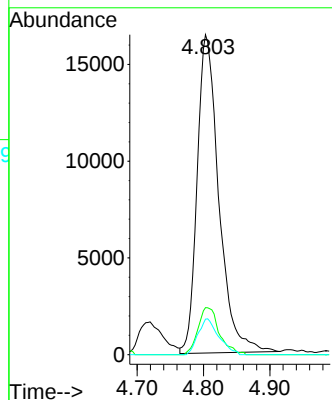
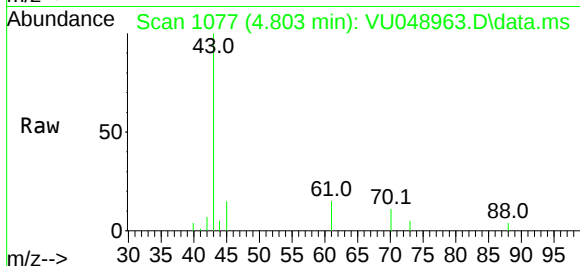
Tgt Ion: 43 Resp: 37365

Ion Ratio Lower Upper

43 100

61 14.5 11.7 17.5

70 10.7 8.4 12.6



#38

Carbon Tetrachloride

Concen: 5.405 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.154 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

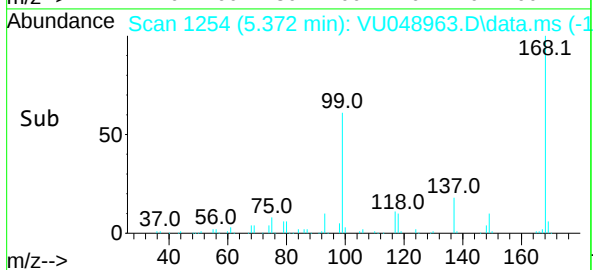
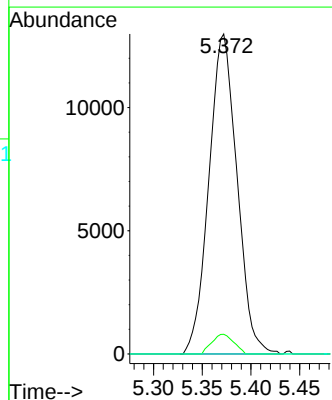
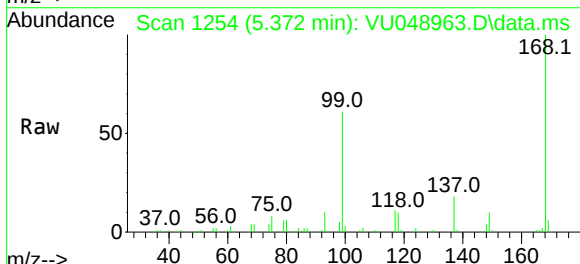
Tgt Ion: 117 Resp: 26081

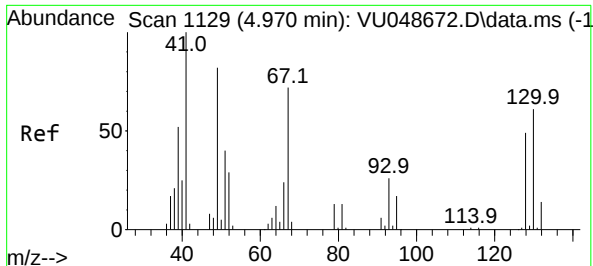
Ion Ratio Lower Upper

117 100

119 6.2 75.4 113.2#

121 0.0 24.6 36.8#

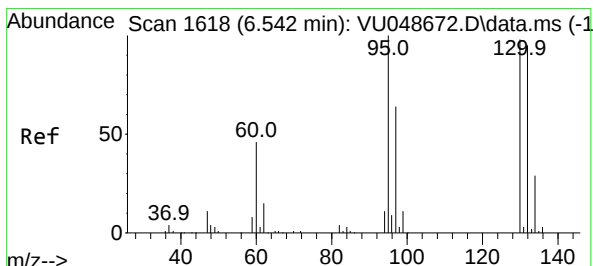
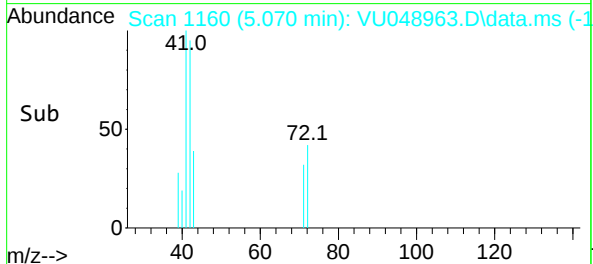
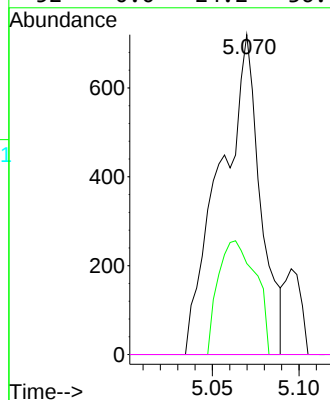
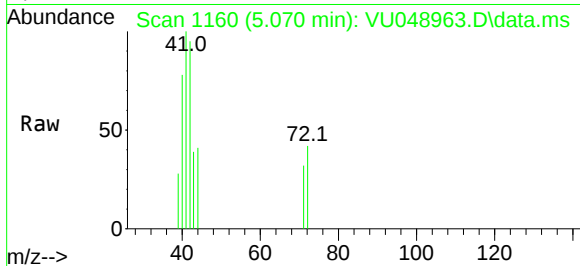




#41  
Methacrylonitrile  
Concen: 0.435 ug/l  
RT: 5.070 min Scan# 1129  
Delta R.T. 0.100 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

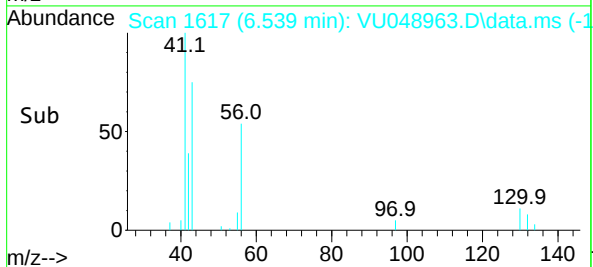
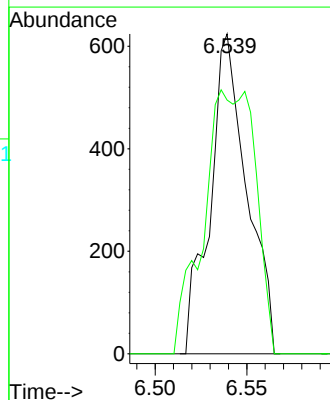
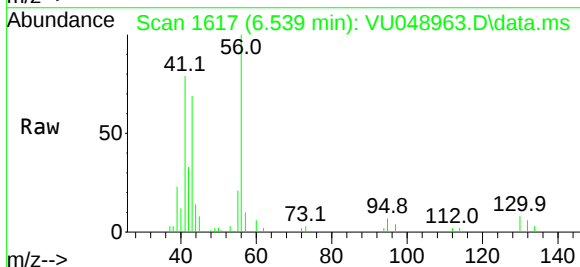
Instrument :  
MSVOA\_U  
ClientSampleId :  
DUP07-20220601

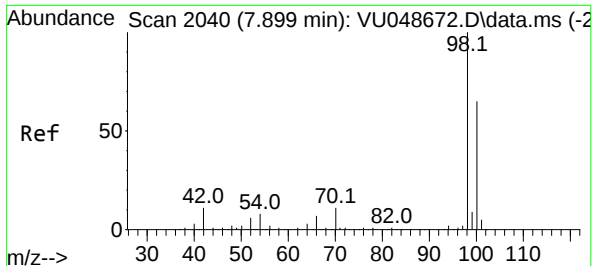
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 1169  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 32.8  | 42.6  | 64.0# |
| 67       | 0.0   | 61.0  | 91.4# |
| 52       | 0.0   | 24.2  | 36.4# |



#44  
Trichloroethene  
Concen: 0.273 ug/l  
RT: 6.539 min Scan# 1617  
Delta R.T. -0.003 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 874   |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 79.3  | 0.0   | 204.8 |





#50

Toluene-d8

Concen: 48.190 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. -0.000 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

Instrument :

MSVOA\_U

ClientSampleId :

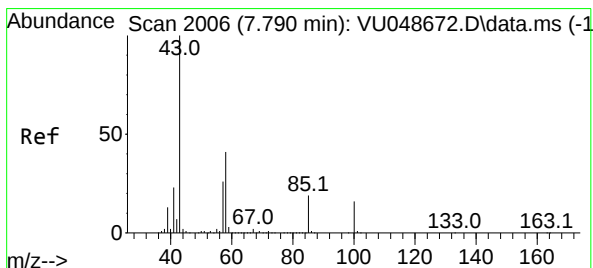
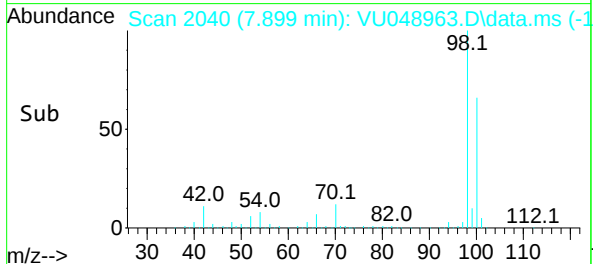
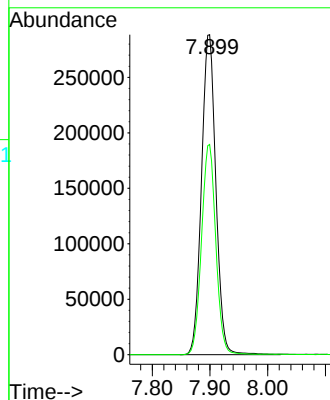
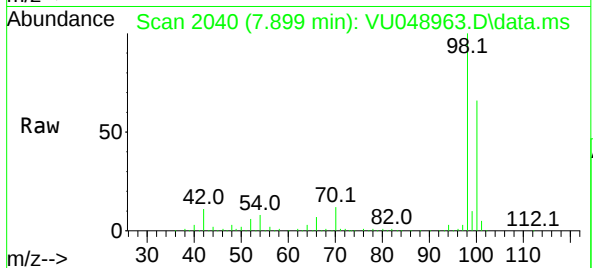
DUP07-20220601

Tgt Ion: 98 Resp: 497833

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 0.328 ug/l

RT: 7.796 min Scan# 2008

Delta R.T. 0.006 min

Lab File: VU048963.D

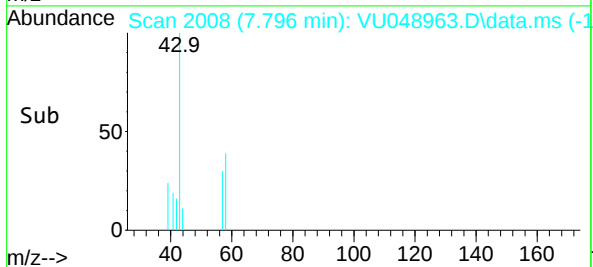
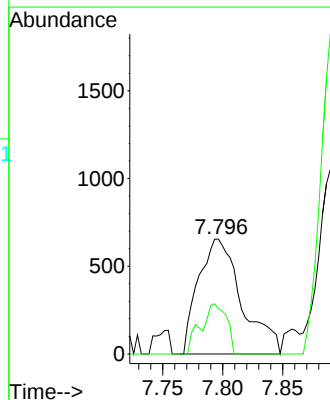
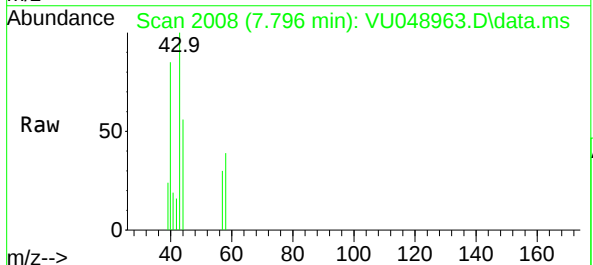
Acq: 08 Jun 2022 15:30

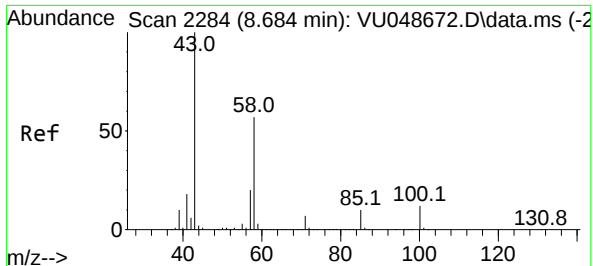
Tgt Ion: 43 Resp: 1643

Ion Ratio Lower Upper

43 100

58 25.9 32.7 49.1#





#59

2-Hexanone

Concen: 0.219 ug/l

RT: 8.690 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

Instrument :

MSVOA\_U

ClientSampleId :

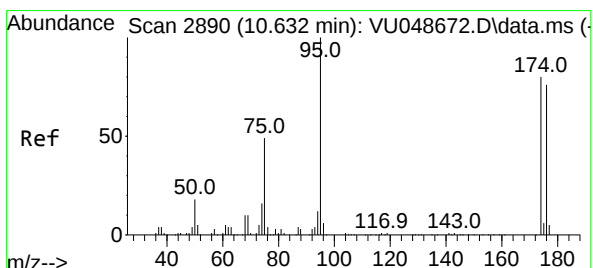
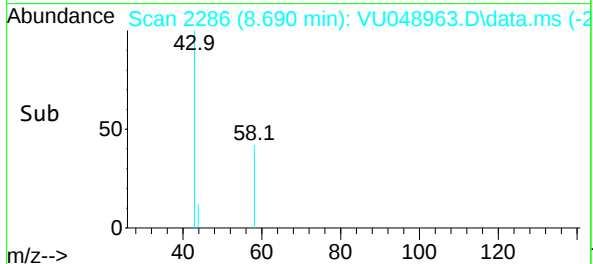
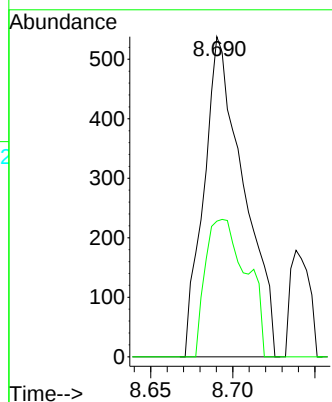
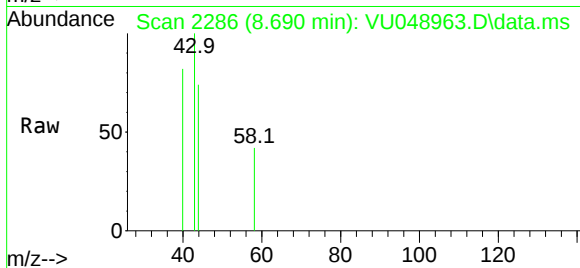
DUP07-20220601

Tgt Ion: 43 Resp: 903

Ion Ratio Lower Upper

43 100

58 44.3 28.2 84.6



#62

4-Bromofluorobenzene

Concen: 46.424 ug/l

RT: 10.632 min Scan# 2890

Delta R.T. 0.000 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

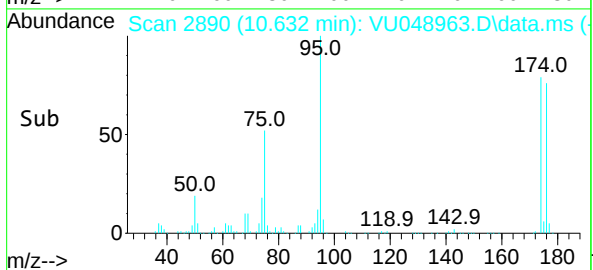
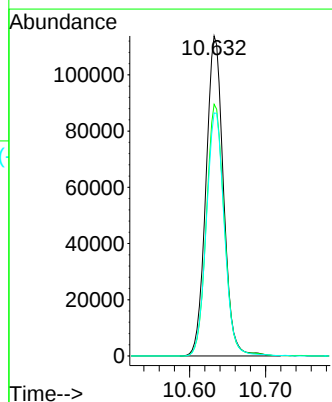
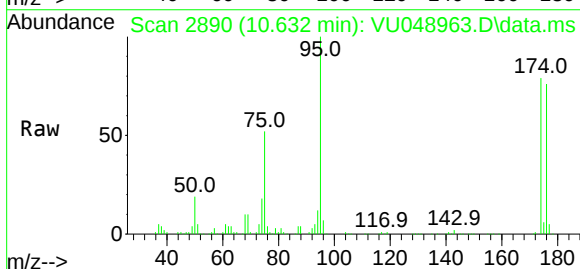
Tgt Ion: 95 Resp: 181375

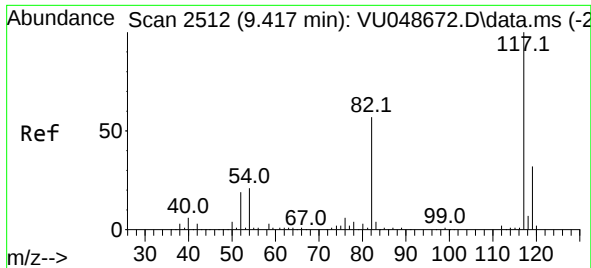
Ion Ratio Lower Upper

95 100

174 80.5 0.0 159.4

176 78.2 0.0 152.4

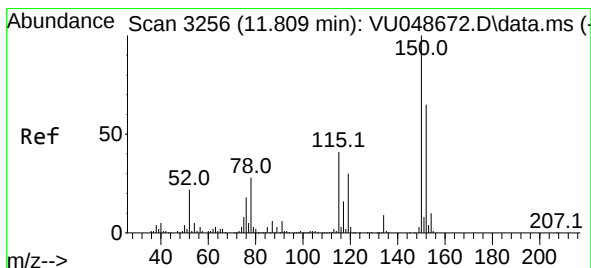
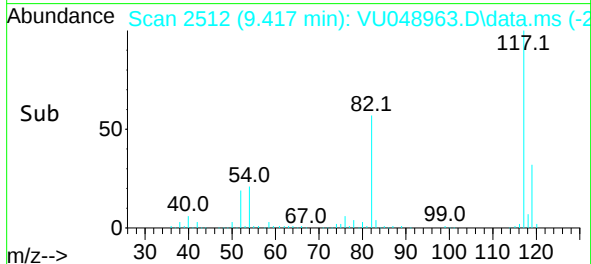
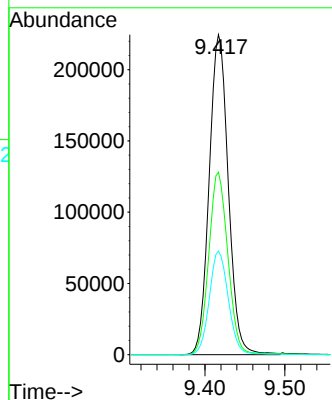
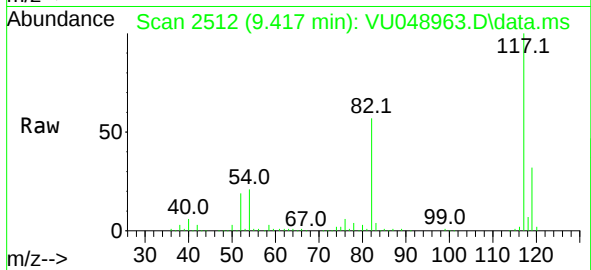




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.417 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

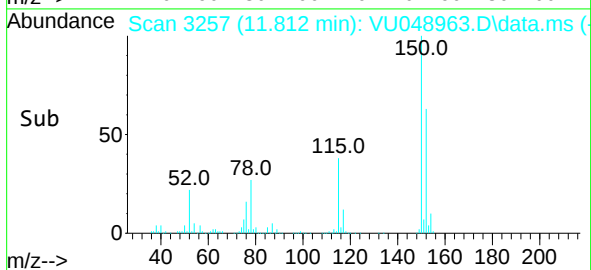
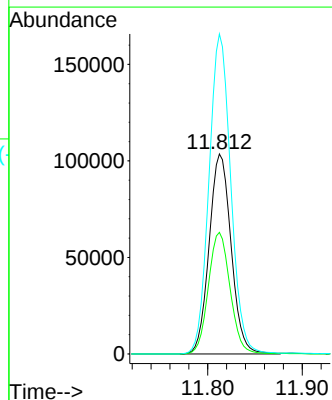
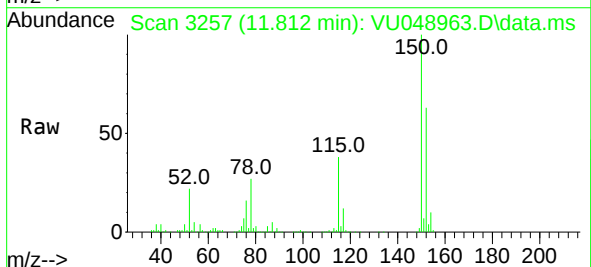
Instrument :  
MSVOA\_U  
ClientSampleId :  
DUP07-20220601

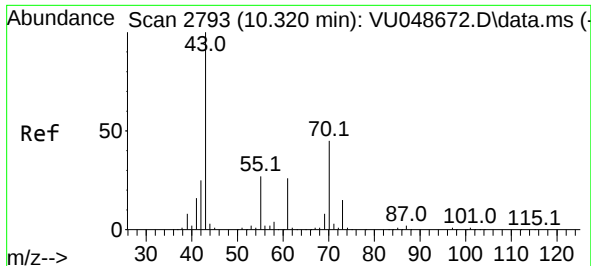
Tgt Ion:117 Resp: 373548  
Ion Ratio Lower Upper  
117 100  
82 57.1 45.3 67.9  
119 32.4 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.812 min Scan# 3257  
Delta R.T. 0.003 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

Tgt Ion:152 Resp: 167673  
Ion Ratio Lower Upper  
152 100  
115 59.9 41.8 125.4  
150 158.0 0.0 341.0

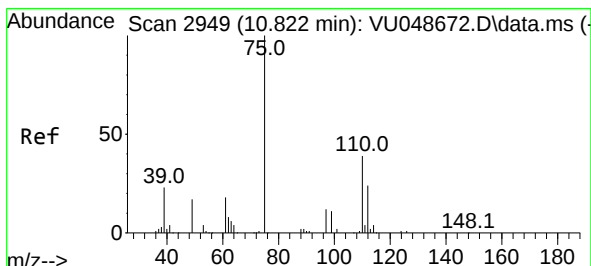
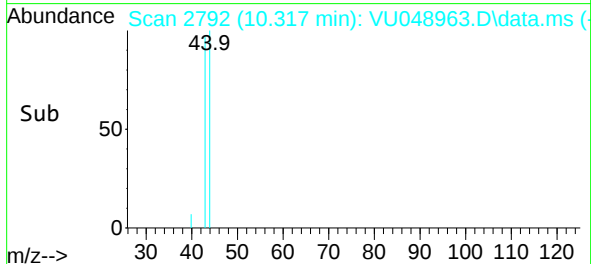
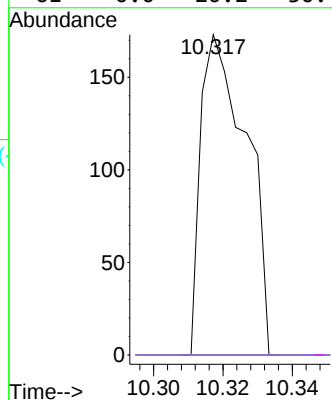
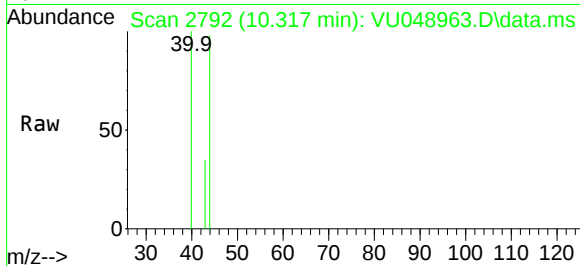




#74  
N-amy1 acetate  
Concen: 2.494 ug/l  
RT: 10.317 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

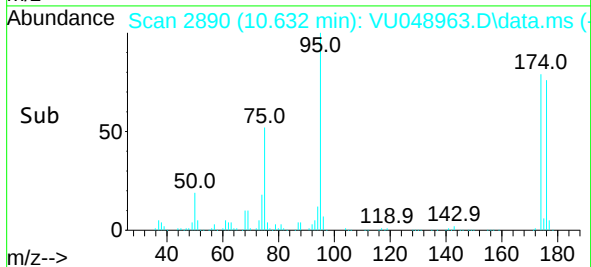
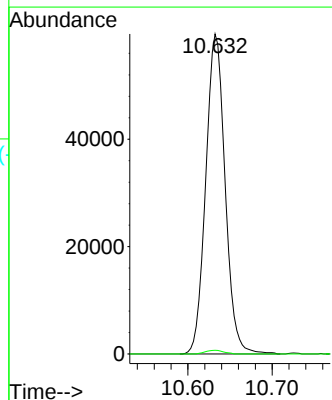
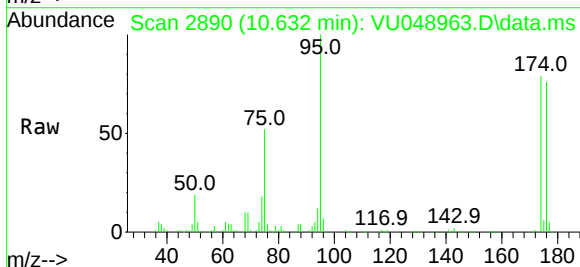
Instrument :  
MSVOA\_U  
ClientSampleId :  
DUP07-20220601

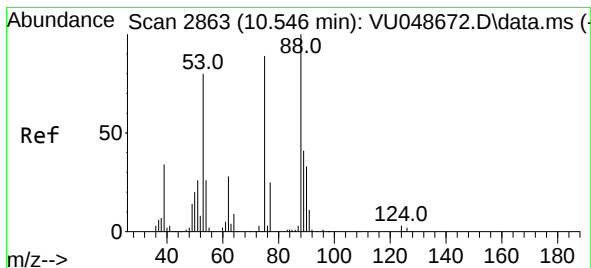
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 158         |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 70          | 0.0   | 35.8 53.6#  |
| 55          | 0.0   | 21.1 31.7#  |
| 61          | 0.0   | 20.2 30.4#  |



#76  
1,2,3-Trichloropropane  
Concen: 17.654 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. -0.190 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 95442       |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 77          | 1.1   | 14.8 44.3#  |

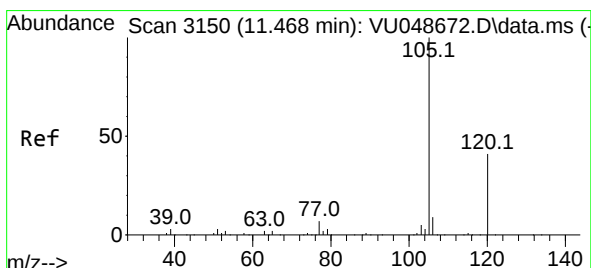
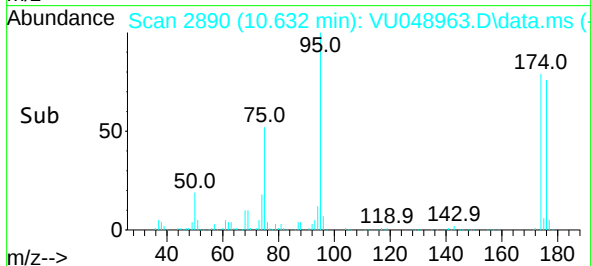
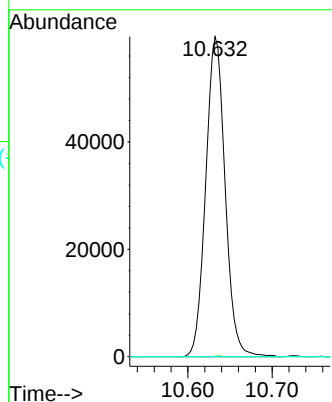
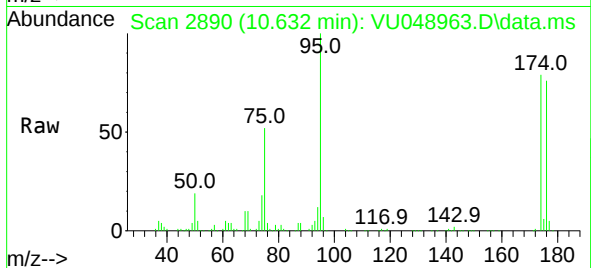




#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.100 ug/l  
RT: 10.632 min Scan# 21  
Delta R.T. 0.087 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

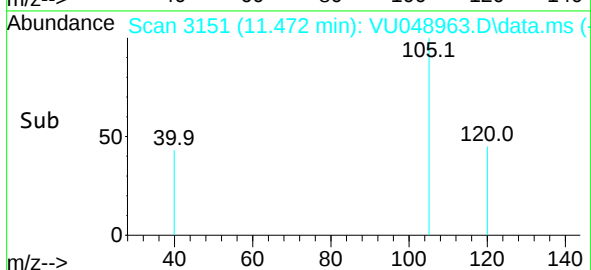
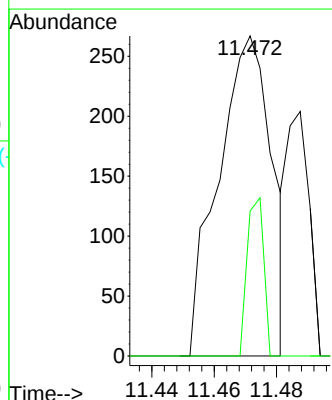
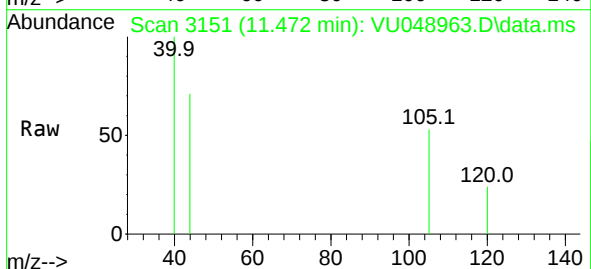
Instrument :  
MSVOA\_U  
ClientSampleId :  
DUP07-20220601

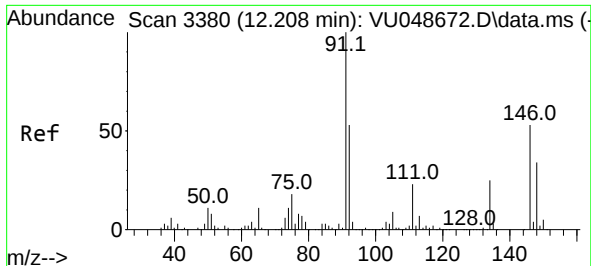
Tgt Ion: 75 Resp: 95442  
Ion Ratio Lower Upper  
75 100  
53 0.1 72.5 108.7#  
89 0.0 37.0 55.4#



#84  
1,2,4-Trimethylbenzene  
Concen: 1.217 ug/l  
RT: 11.472 min Scan# 3151  
Delta R.T. 0.004 min  
Lab File: VU048963.D  
Acq: 08 Jun 2022 15:30

Tgt Ion: 105 Resp: 317  
Ion Ratio Lower Upper  
105 100  
120 15.5 22.5 67.5#





#89

n-Butylbenzene

Concen: 2.238 ug/l

RT: 12.214 min Scan# 31

Delta R.T. 0.006 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

Instrument :

MSVOA\_U

ClientSampleId :

DUP07-20220601

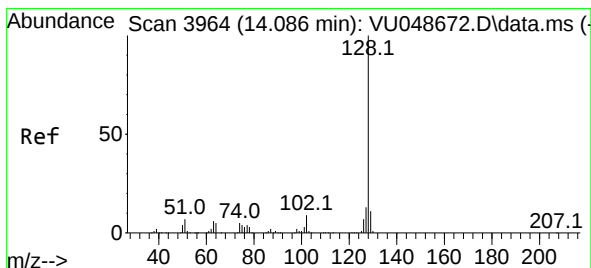
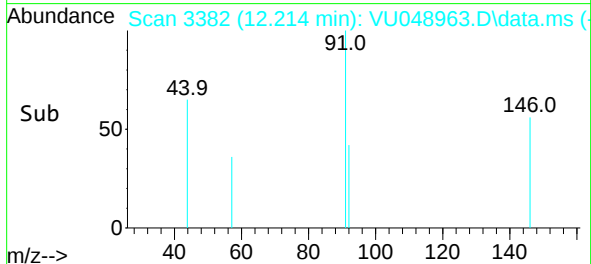
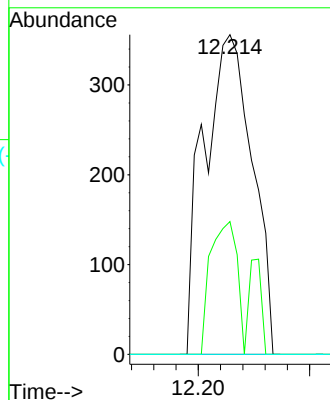
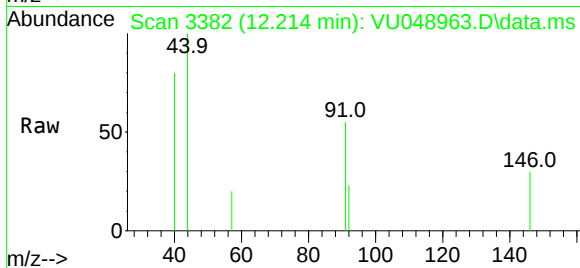
Tgt Ion: 91 Resp: 539

Ion Ratio Lower Upper

91 100

92 22.8 25.9 77.8#

134 0.0 12.5 37.5#



#95

Naphthalene

Concen: 2.748 ug/l

RT: 14.098 min Scan# 3968

Delta R.T. 0.012 min

Lab File: VU048963.D

Acq: 08 Jun 2022 15:30

Tgt Ion:128 Resp: 2989

Ion Ratio Lower Upper

128 100

127 6.0 10.2 15.4#

129 6.9 8.7 13.1#

