

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020323\  
 Data File : VU052953.D  
 Acq On : 03 Feb 2023 18:27  
 Operator : JC/MD  
 Sample : 01412-04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

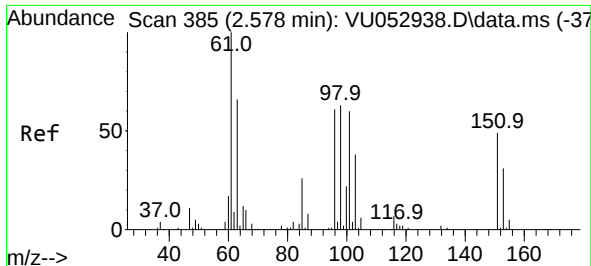
Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Feb 03 23:49:55 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM012623WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Feb 03 23:44:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 6.243          | 114  | 204677     | 50.000  | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414          | 117  | 203937     | 50.000  | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806         | 152  | 108840     | 50.000  | ug/L   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 1.597          | 65   | 56156      | 38.119  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 76.240% |        |          |
| 7) Chloroethane-d5            | 1.909          | 69   | 55975      | 46.113  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 92.220% |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.565          | 63   | 91134      | 31.103  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 62.200% |        |          |
| 21) 2-Butanone-d5             | 4.616          | 46   | 70988      | 78.004  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 78.000% |        |          |
| 24) Chloroform-d              | 5.057          | 84   | 145664     | 46.331  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 92.660% |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.697          | 65   | 96593      | 48.116  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 96.240% |        |          |
| 32) Benzene-d6                | 5.723          | 84   | 267274     | 42.897  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 85.800% |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.684          | 67   | 80187      | 43.882  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 87.760% |        |          |
| 41) Toluene-d8                | 7.893          | 98   | 234381     | 41.311  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 82.620% |        |          |
| 43) trans-1,3-Dichloroprop... | 8.176          | 79   | 39478      | 43.104  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 86.200% |        |          |
| 47) 2-Hexanone-d5             | 8.629          | 63   | 47474      | 73.939  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 73.940% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751         | 84   | 114304     | 42.337  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 84.680% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.806         | 152  | 87627      | 41.463  | ug/L   | -0.38    |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 82.920% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 12) 1,1-Dichloroethene        | 2.568          | 96   | 1096       | 0.724   | ug/L # | 1        |
| 20) cis-1,2-Dichloroethene    | 4.662          | 96   | 148074     | 84.758  | ug/L   | 95       |
| 33) Benzene                   | 5.771          | 78   | 6871       | 0.990   | ug/L   | 100      |
| 34) Trichloroethene           | 6.539          | 95   | 16636      | 9.428   | ug/L   | 96       |
| 37) 1,2-Dichloropropane       | 6.684          | 63   | 9437       | 5.529   | ug/L # | 85       |
| 51) Chlorobenzene             | 9.443          | 112  | 468406     | 95.693  | ug/L   | 99       |
| 60) 1,2,3-Trichloropropane    | 11.738         | 75   | 4079       | 1.932   | ug/L # | 48       |
| 64) 1,3-Dichlorobenzene       | 11.742         | 146  | 14603      | 4.118   | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.832         | 146  | 158387     | 43.139  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.208         | 146  | 1159974    | 323.363 | ug/L   | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.835         | 180  | 39603      | 15.084  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.835         | 180  | 39603      | 17.991  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.323         | 180  | 7785       | 3.346   | ug/L # | 92       |
| -----                         |                |      |            |         |        |          |

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





#12

1,1-Dichloroethene

Concen: 0.724 ug/L

RT: 2.568 min Scan# 385

Delta R.T. -0.009 min

Lab File: VU052953.D

Acq: 03 Feb 2023 18:27

Instrument :

MSVOA\_U

ClientSampleId :

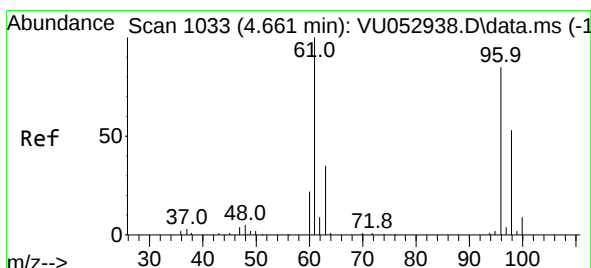
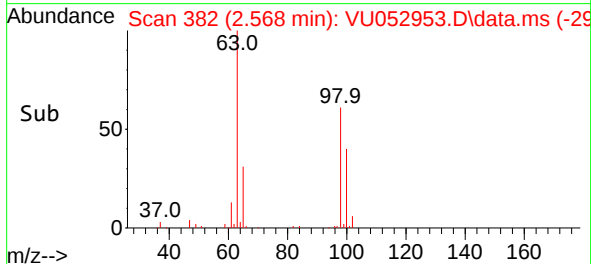
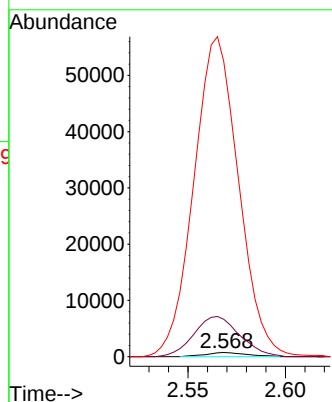
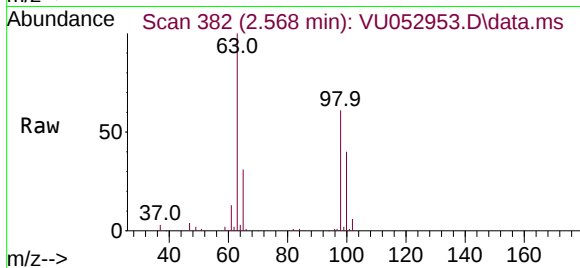
Tgt Ion: 96 Resp: 1096

Ion Ratio Lower Upper

96 100

61 532.8 114.3 212.3#

63 4200.3 80.6 149.6#



#20

cis-1,2-Dichloroethene

Concen: 84.758 ug/L

RT: 4.662 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VU052953.D

Acq: 03 Feb 2023 18:27

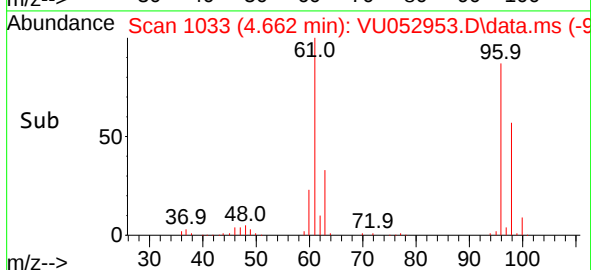
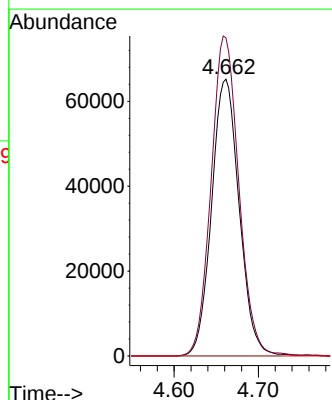
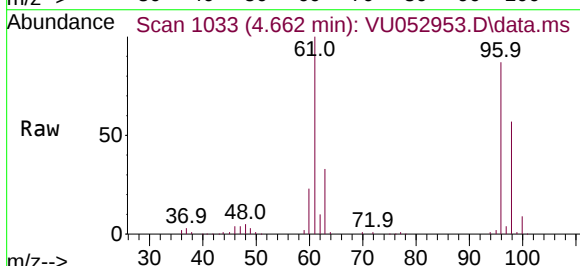
Tgt Ion: 96 Resp: 148074

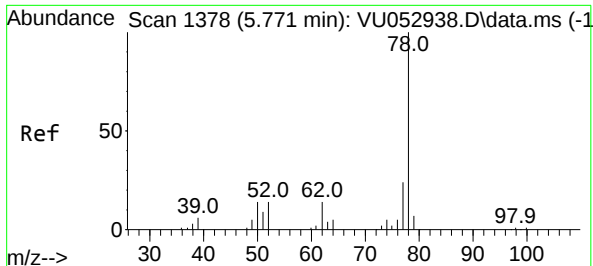
Ion Ratio Lower Upper

96 100

61 114.9 84.1 156.1

68 0.0 0.0 0.0

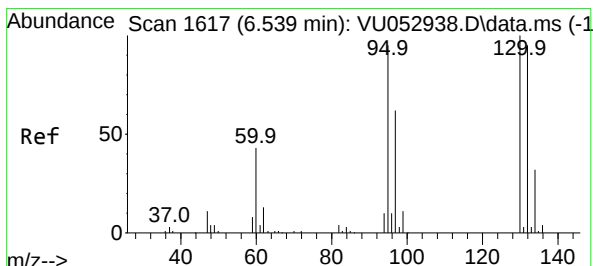
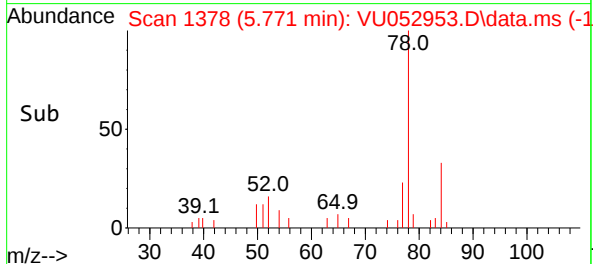
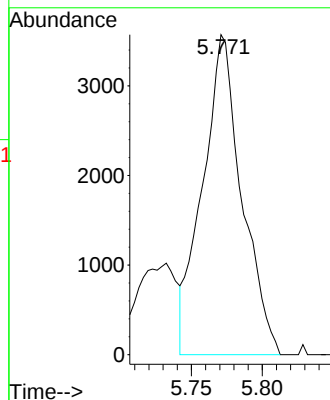
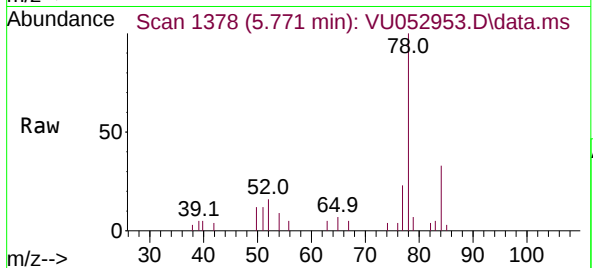




#33  
Benzene  
Concen: 0.990 ug/L  
RT: 5.771 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU052953.D  
Acq: 03 Feb 2023 18:27

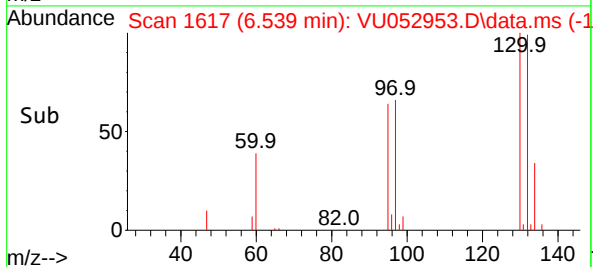
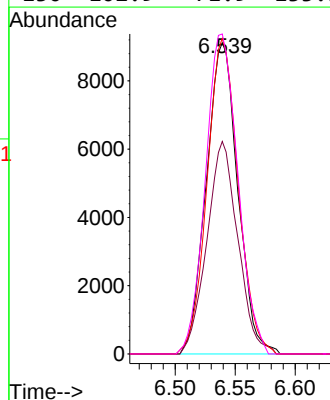
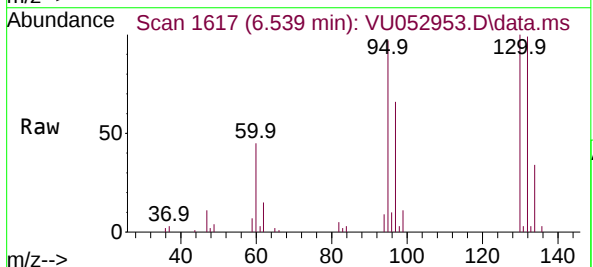
Instrument :  
MSVOA\_U  
ClientSampleId :

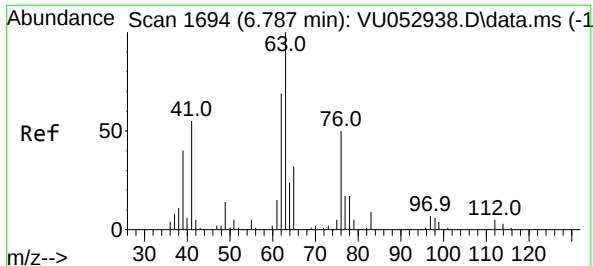
Tgt Ion: 78 Resp: 6871



#34  
Trichloroethene  
Concen: 9.428 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. 0.000 min  
Lab File: VU052953.D  
Acq: 03 Feb 2023 18:27

Tgt Ion: 95 Resp: 16636  
Ion Ratio Lower Upper  
95 100  
97 68.3 44.5 82.7  
132 101.5 66.8 124.0  
130 102.9 71.9 133.5





#37

1,2-Dichloropropane

Concen: 5.529 ug/L

RT: 6.684 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU052953.D

Acq: 03 Feb 2023 18:27

Instrument :

MSVOA\_U

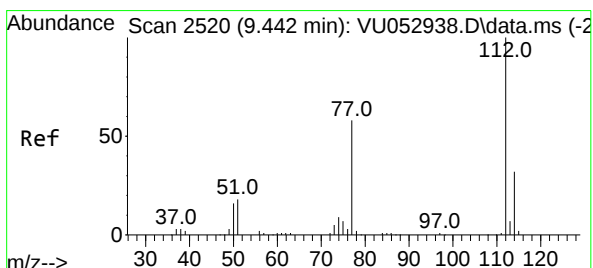
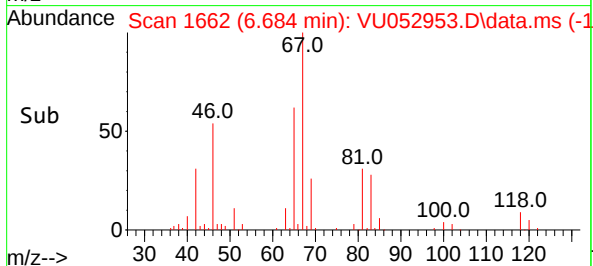
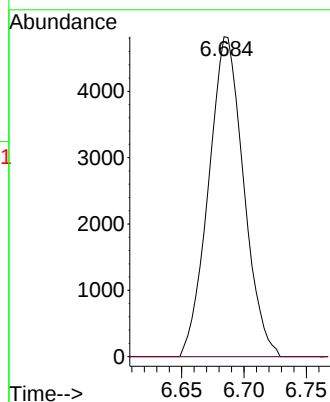
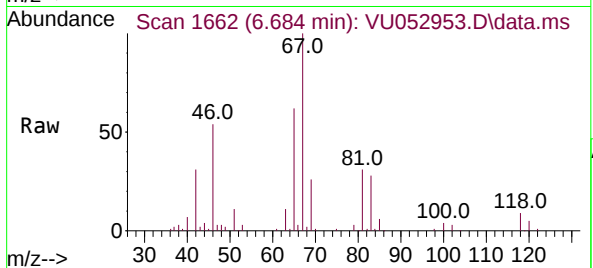
ClientSampleId :

Tgt Ion: 63 Resp: 9437

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.8#



#51

Chlorobenzene

Concen: 95.693 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. 0.000 min

Lab File: VU052953.D

Acq: 03 Feb 2023 18:27

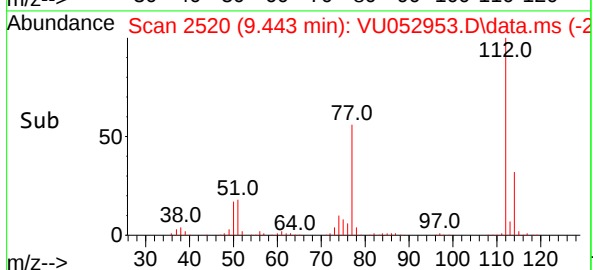
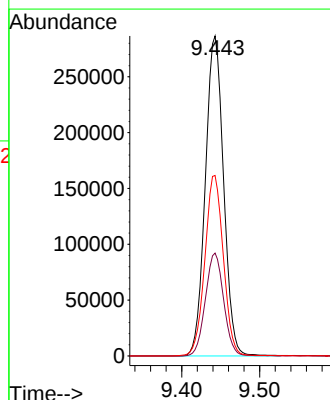
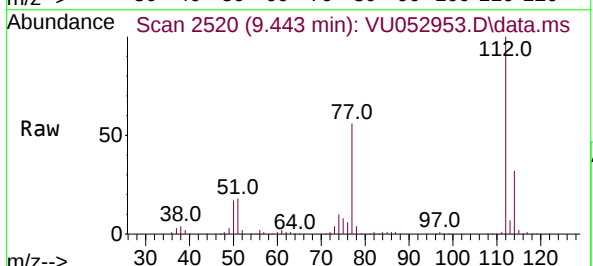
Tgt Ion: 112 Resp: 468406

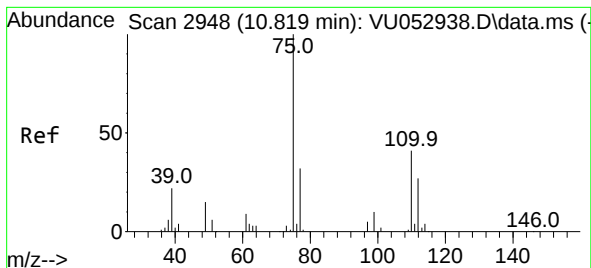
Ion Ratio Lower Upper

112 100

114 32.2 22.8 42.4

77 56.4 45.9 68.9





#60

1,2,3-Trichloropropane

Concen: 1.932 ug/L

RT: 11.738 min Scan# 31

Delta R.T. 0.920 min

Lab File: VU052953.D

Acq: 03 Feb 2023 18:27

Instrument :

MSVOA\_U

ClientSampleId :

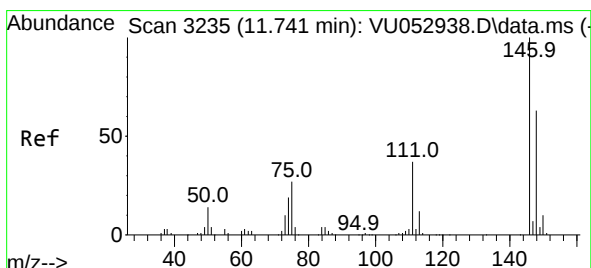
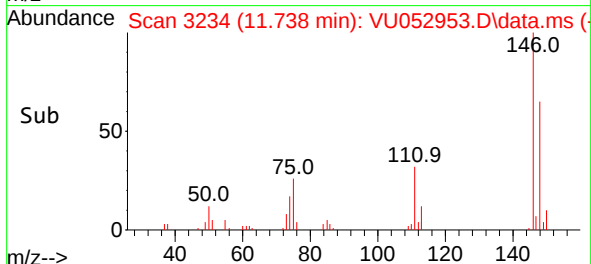
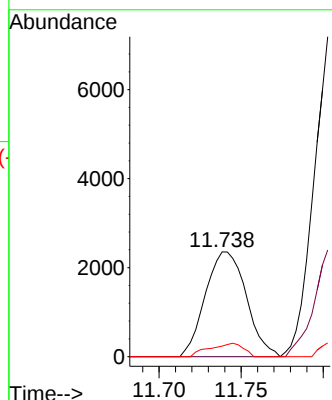
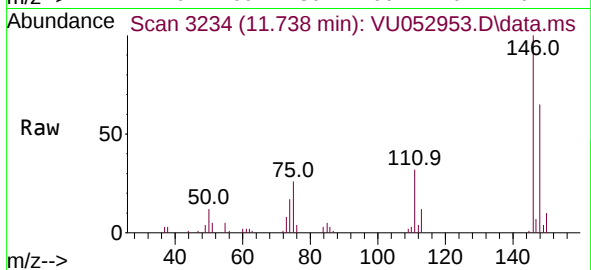
Tgt Ion: 75 Resp: 4079

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#

110 10.6 32.4 48.6#



#64

1,3-Dichlorobenzene

Concen: 4.118 ug/L

RT: 11.742 min Scan# 3235

Delta R.T. 0.000 min

Lab File: VU052953.D

Acq: 03 Feb 2023 18:27

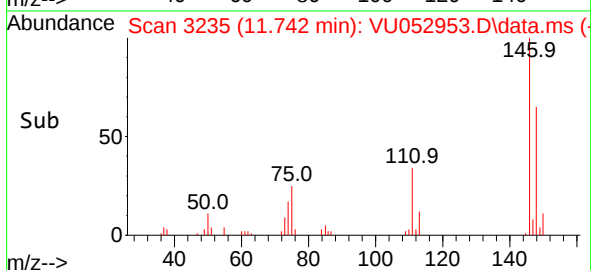
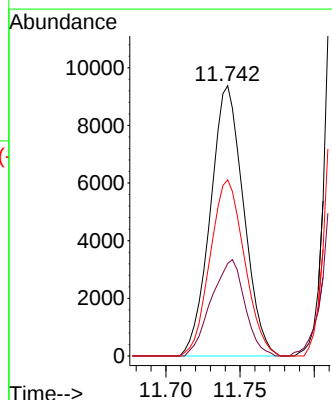
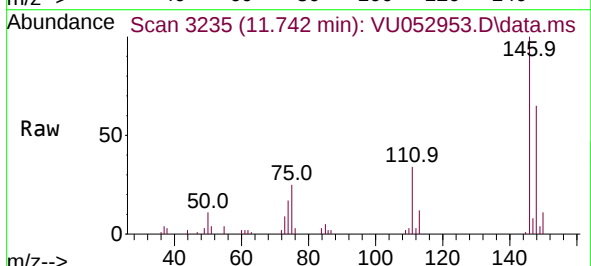
Tgt Ion:146 Resp: 14603

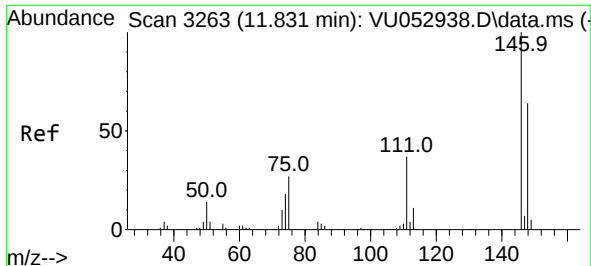
Ion Ratio Lower Upper

146 100

111 34.3 27.8 51.6

148 65.2 45.5 84.5

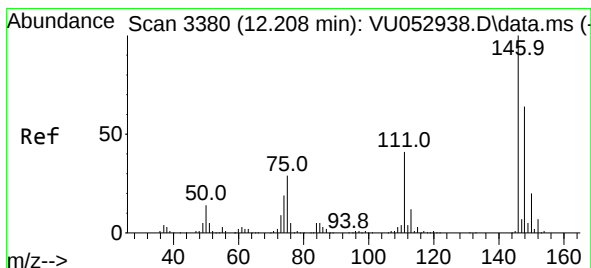
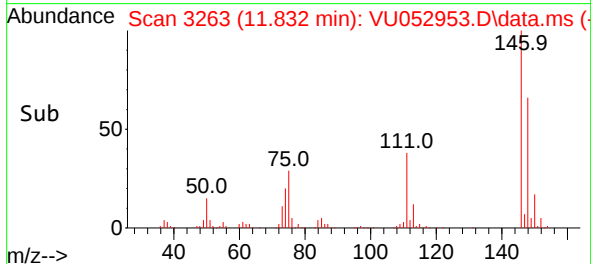
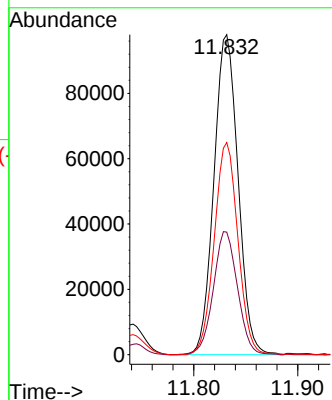
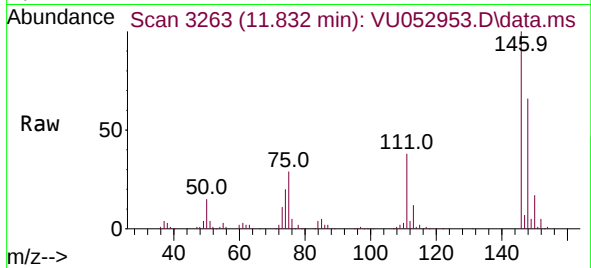




#65  
1,4-Dichlorobenzene  
Concen: 43.139 ug/L  
RT: 11.832 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU052953.D  
Acq: 03 Feb 2023 18:27

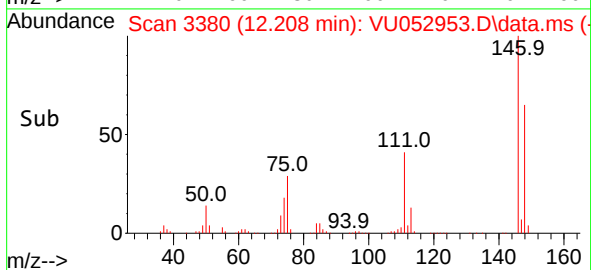
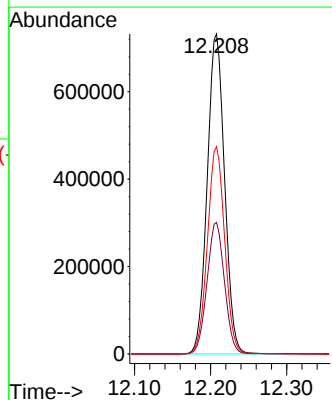
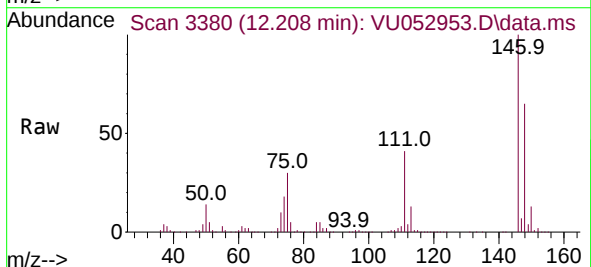
Instrument :  
MSVOA\_U  
ClientSampleId :

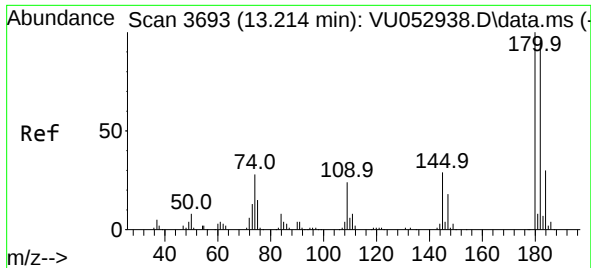
Tgt Ion:146 Resp: 158387  
Ion Ratio Lower Upper  
146 100  
111 38.3 26.7 49.7  
148 66.3 45.6 84.6



#67  
1,2-Dichlorobenzene  
Concen: 323.363 ug/L  
RT: 12.208 min Scan# 3380  
Delta R.T. 0.000 min  
Lab File: VU052953.D  
Acq: 03 Feb 2023 18:27

Tgt Ion:146 Resp: 1159974  
Ion Ratio Lower Upper  
146 100  
111 41.1 33.2 49.8  
148 64.8 50.2 75.4





#69

1,3,5-Trichlorobenzene

Concen: 15.084 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. 0.621 min

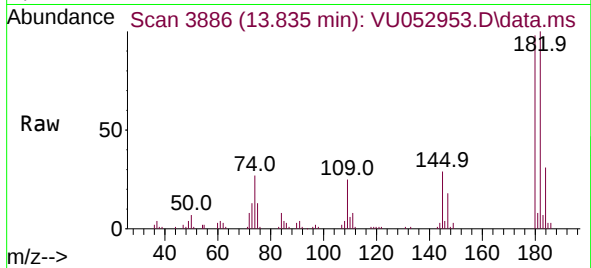
Lab File: VU052953.D

Acq: 03 Feb 2023 18:27

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 39603

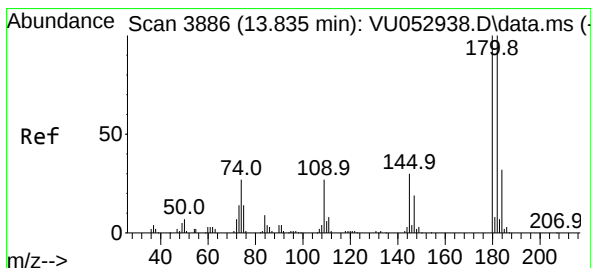
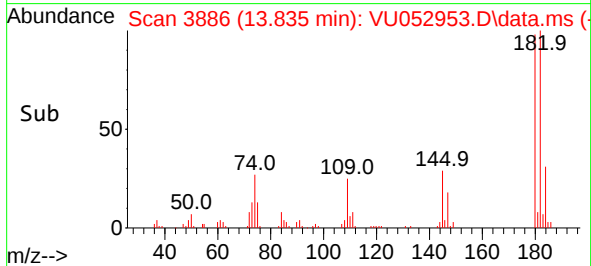
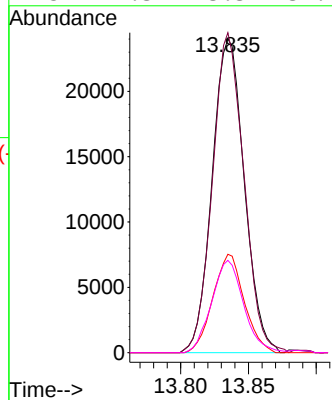
Ion Ratio Lower Upper

180 100

182 99.2 77.0 115.6

184 30.5 24.4 36.6

145 29.3 23.3 34.9



#70

1,2,4-trichlorobenzene

Concen: 17.991 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. 0.000 min

Lab File: VU052953.D

Acq: 03 Feb 2023 18:27

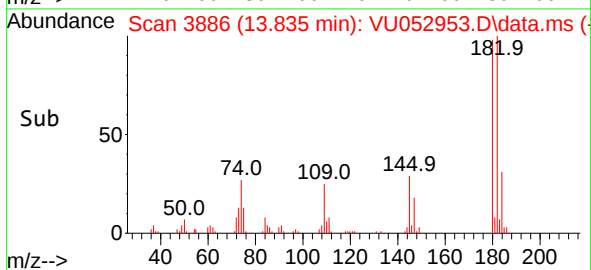
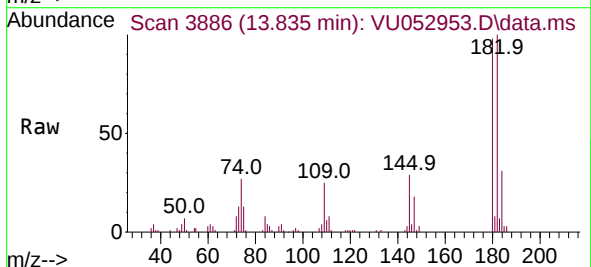
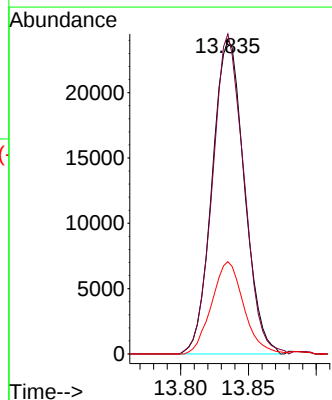
Tgt Ion:180 Resp: 39603

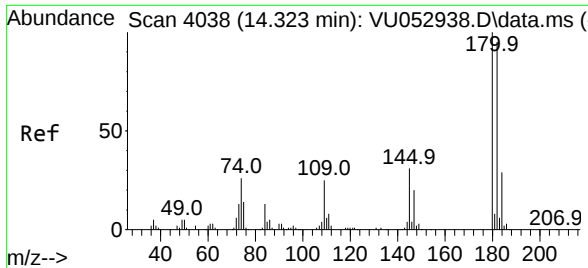
Ion Ratio Lower Upper

180 100

182 99.2 78.2 117.2

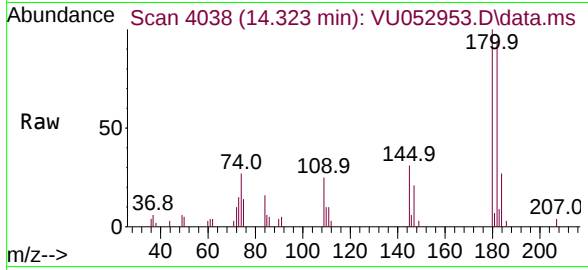
145 29.3 23.4 35.2





#72  
 1,2,3-Trichlorobenzene  
 Concen: 3.346 ug/L  
 RT: 14.323 min Scan# 4038  
 Delta R.T. 0.000 min  
 Lab File: VU052953.D  
 Acq: 03 Feb 2023 18:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 7785  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 93.4  | 77.5  | 116.3 |
| 145       | 19.3  | 24.2  | 36.4# |

