

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121421\  
 Data File : VU046377.D  
 Acq On : 14 Dec 2021 23:17  
 Operator : SY/MD  
 Sample : M5037-04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C00V9

Quant Time: Dec 15 03:46:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 15 03:40:56 2021  
 Response via : Initial Calibration

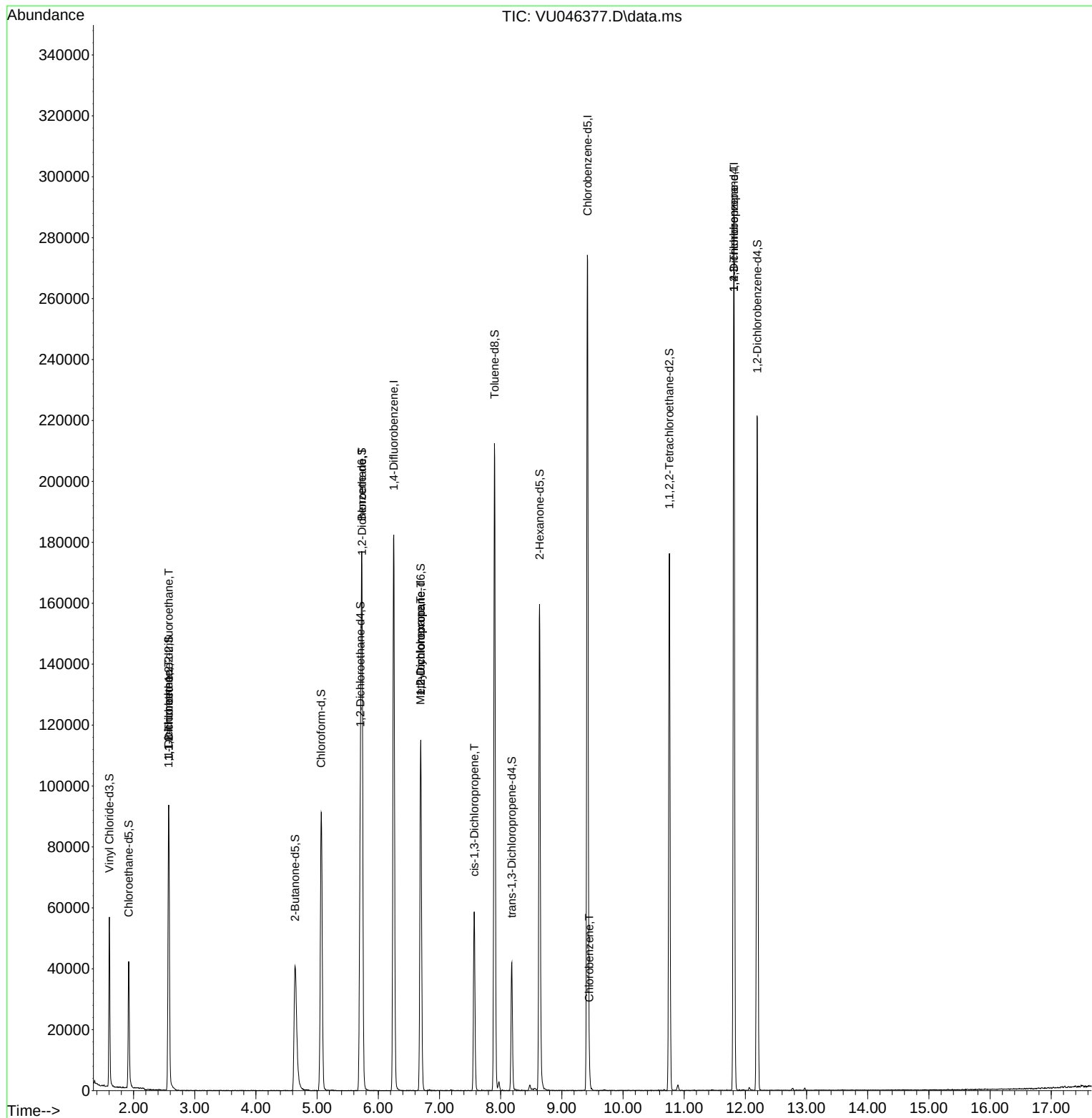
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253          | 114  | 147711     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420          | 117  | 151875     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812         | 152  | 74009      | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.604          | 65   | 41969      | 34.492   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 68.980%  |        |          |
| 7) Chloroethane-d5            | 1.919          | 69   | 33524      | 35.884   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 71.760%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.575          | 63   | 56685      | 25.951   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 51.900%# |        |          |
| 21) 2-Butanone-d5             | 4.639          | 46   | 79797      | 82.497   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 82.500%  |        |          |
| 24) Chloroform-d              | 5.067          | 84   | 88100      | 43.358   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 86.720%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.707          | 65   | 59072      | 43.319   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 86.640%  |        |          |
| 32) Benzene-d6                | 5.732          | 84   | 163831     | 37.636   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 75.280%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.694          | 67   | 53357      | 39.551   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 79.100%  |        |          |
| 41) Toluene-d8                | 7.899          | 98   | 137401     | 34.668   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 69.340%# |        |          |
| 43) trans-1,3-Dichloroprop... | 8.182          | 79   | 23860      | 36.638   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 73.280%  |        |          |
| 47) 2-Hexanone-d5             | 8.636          | 63   | 57671      | 90.161   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 90.160%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758         | 84   | 83517      | 40.821   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 81.640%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.195         | 152  | 55945      | 39.252   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 78.500%# |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575          | 101  | 431        | 0.401    | ug/L # | 21       |
| 12) 1,1-Dichloroethene        | 2.572          | 96   | 338        | 0.331    | ug/L # | 1        |
| 27) 1,2-Dichloroethane        | 5.735          | 62   | 926        | 0.572    | ug/L # | 73       |
| 35) Methylcyclohexane         | 6.690          | 83   | 13633      | 7.261    | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 6.694          | 63   | 6029       | 5.007    | ug/L # | 86       |
| 39) cis-1,3-Dichloropropene   | 7.571          | 75   | 1422       | 0.776    | ug/L   | 86       |
| 51) Chlorobenzene             | 9.449          | 112  | 3825       | 1.199    | ug/L   | 98       |
| 60) 1,2,3-Trichloropropane    | 11.812         | 75   | 8887       | 5.478    | ug/L # | 64       |
| -----                         |                |      |            |          |        |          |

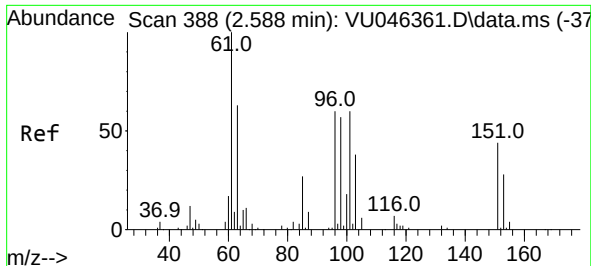
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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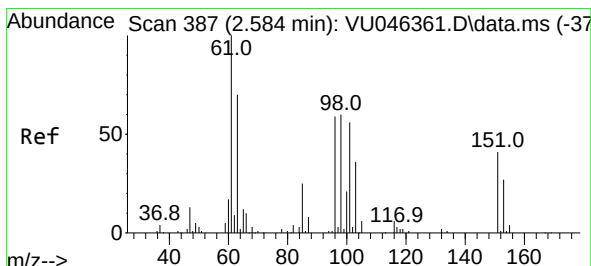
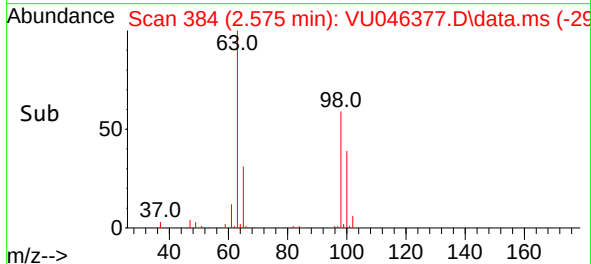
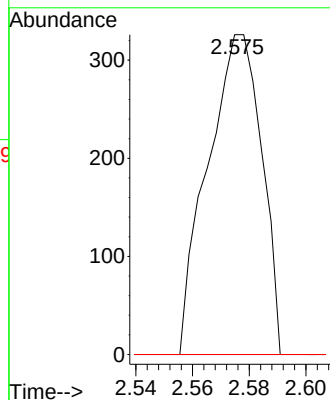
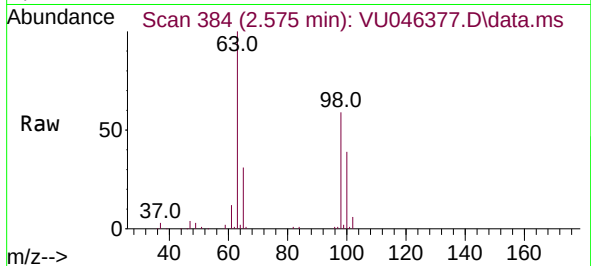




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.401 ug/L  
RT: 2.575 min Scan# 384  
Delta R.T. -0.013 min  
Lab File: VU046377.D  
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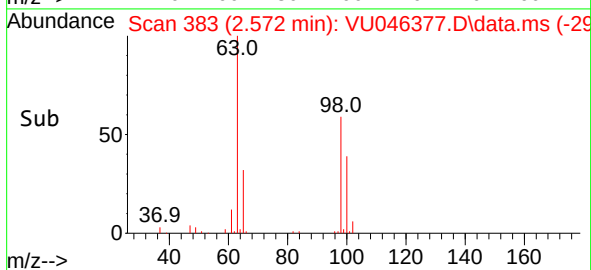
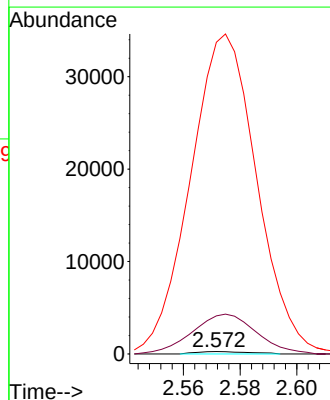
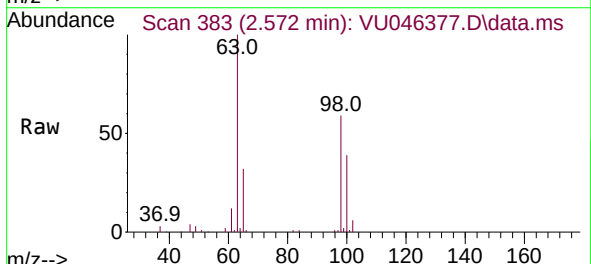
Instrument :  
MSVOA\_U  
ClientSampleId :  
C00V9

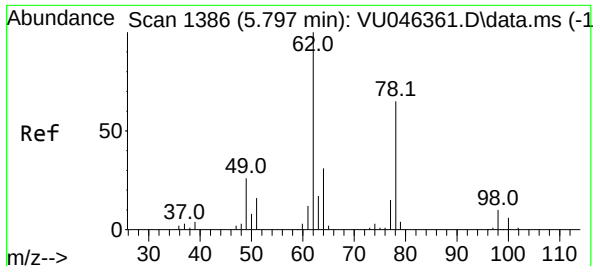
Tgt Ion:101 Resp: 431  
Ion Ratio Lower Upper  
101 100  
85 0.0 35.1 52.7#  
151 0.0 56.7 85.1#



#12  
1,1-Dichloroethene  
Concen: 0.331 ug/L  
RT: 2.572 min Scan# 383  
Delta R.T. -0.013 min  
Lab File: VU046377.D  
Acq: 14 Dec 2021 23:17

Tgt Ion: 96 Resp: 338  
Ion Ratio Lower Upper  
96 100  
61 1564.6 118.6 220.2#  
63 12821.3 93.0 172.8#





#27

1,2-Dichloroethane

Concen: 0.572 ug/L

RT: 5.735 min Scan# 11

Delta R.T. -0.061 min

Lab File: VU046377.D

Acq: 14 Dec 2021 23:17

Instrument :

MSVOA\_U

ClientSampleId :

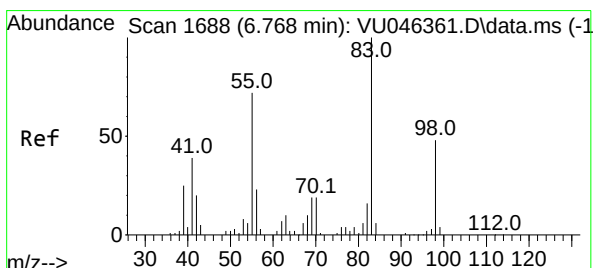
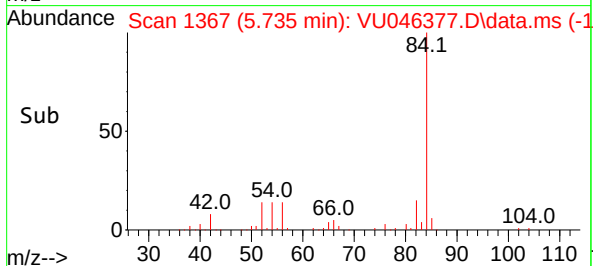
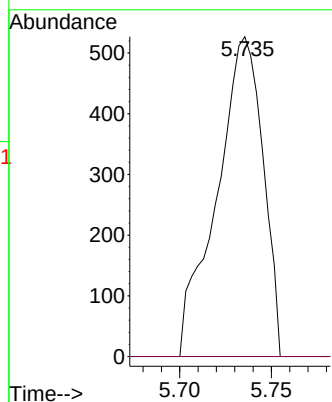
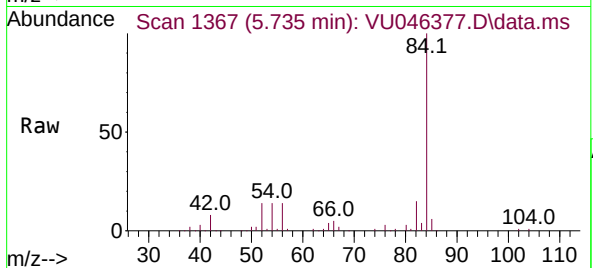
C00V9

Tgt Ion: 62 Resp: 926

Ion Ratio Lower Upper

62 100

98 0.0 7.9 11.9#



#35

Methylcyclohexane

Concen: 7.261 ug/L

RT: 6.690 min Scan# 1664

Delta R.T. -0.077 min

Lab File: VU046377.D

Acq: 14 Dec 2021 23:17

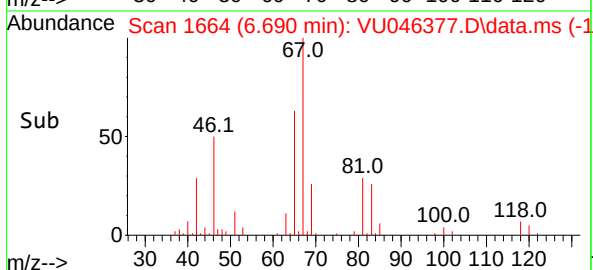
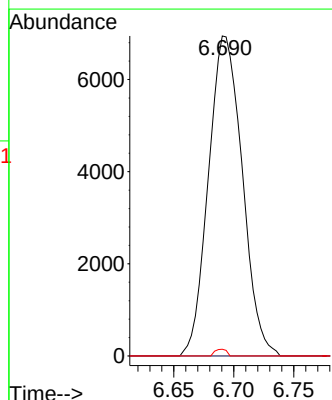
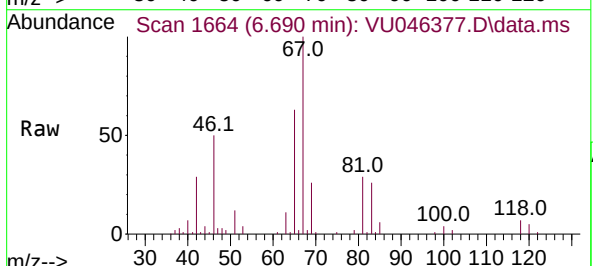
Tgt Ion: 83 Resp: 13633

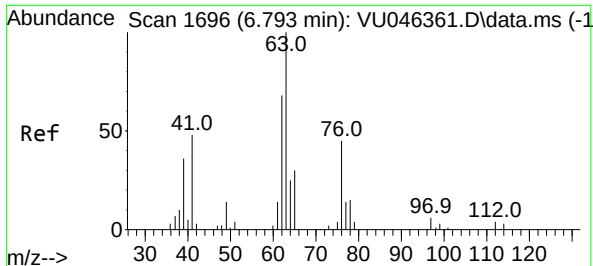
Ion Ratio Lower Upper

83 100

55 0.0 57.8 86.6#

98 0.7 38.4 57.6#





#37

1,2-Dichloropropane

Concen: 5.007 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046377.D

Acq: 14 Dec 2021 23:17

Instrument :

MSVOA\_U

ClientSampleId :

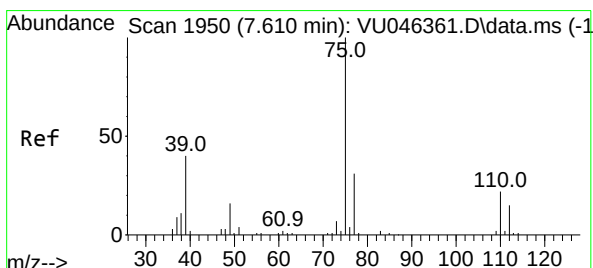
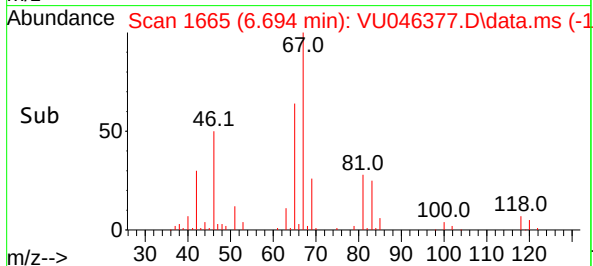
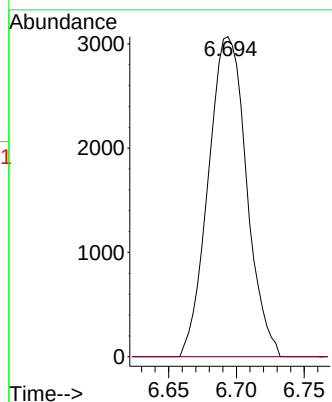
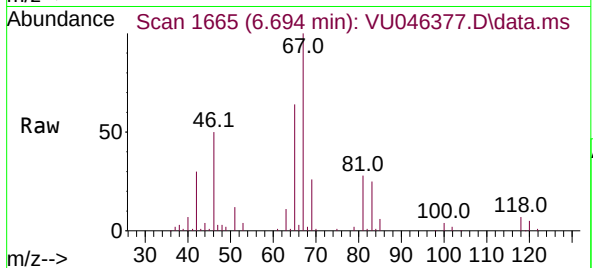
C00V9

Tgt Ion: 63 Resp: 6029

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.776 ug/L

RT: 7.571 min Scan# 1938

Delta R.T. -0.039 min

Lab File: VU046377.D

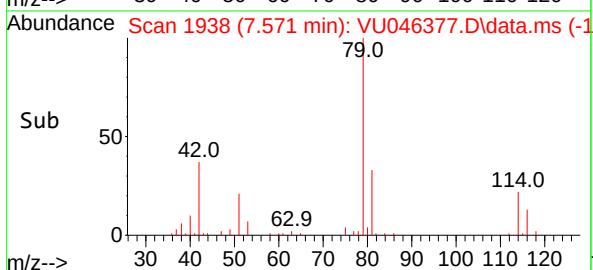
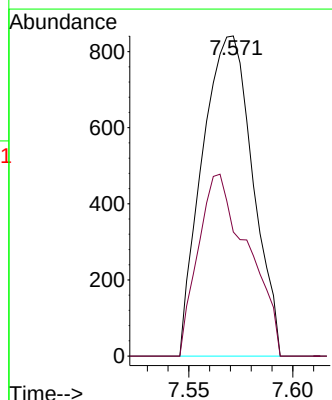
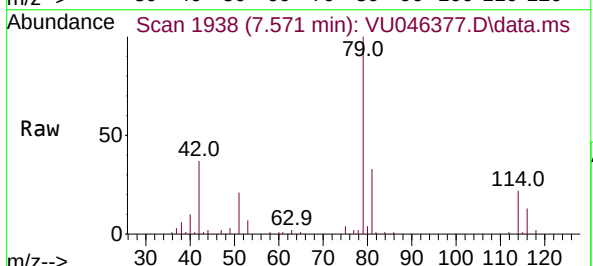
Acq: 14 Dec 2021 23:17

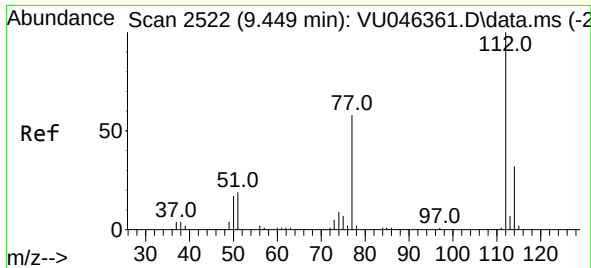
Tgt Ion: 75 Resp: 1422

Ion Ratio Lower Upper

75 100

77 38.8 21.8 40.6

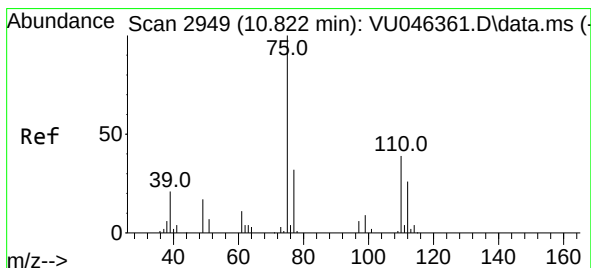
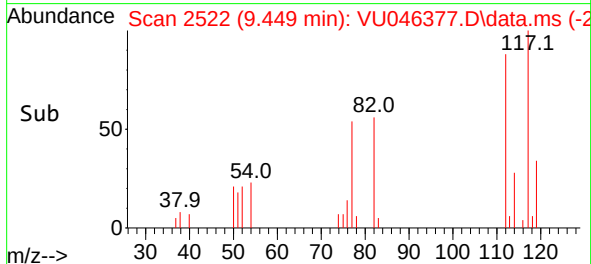
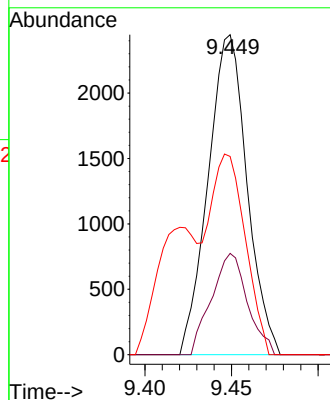
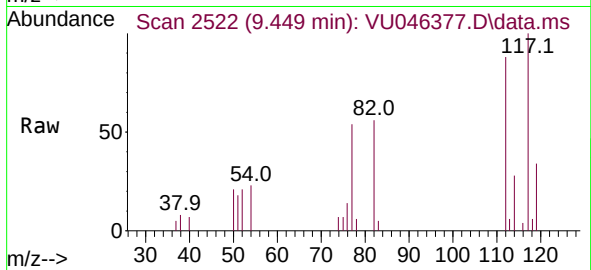




#51  
Chlorobenzene  
Concen: 1.199 ug/L  
RT: 9.449 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU046377.D  
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MSVOA\_U  
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C00V9

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 3825 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 114       | 31.7  | 22.2  | 41.2 |
| 77        | 62.0  | 47.4  | 71.0 |



#60  
1,2,3-Trichloropropane  
Concen: 5.478 ug/L  
RT: 11.812 min Scan# 3257  
Delta R.T. 0.990 min  
Lab File: VU046377.D  
Acq: 14 Dec 2021 23:17

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 8887 |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 77        | 34.9  | 26.4  | 39.6 |
| 110       | 1.7   | 32.4  | 48.6 |

