

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082420\  
 Data File : VU039953.D  
 Acq On : 24 Aug 2020 17:47  
 Operator : SY/MD  
 Sample : L3789-01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 25 02:05:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR081920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Aug 25 02:02:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 69901    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 67325    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 31567    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

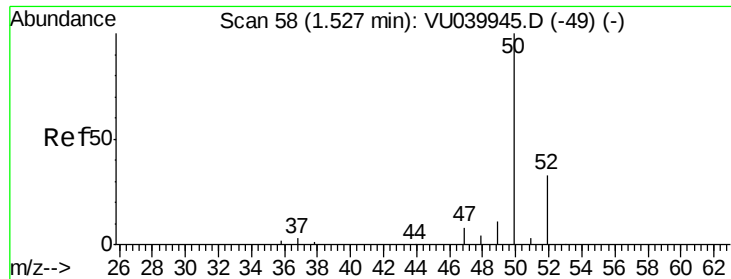
|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 23286    | 3.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 76.40%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 22327    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 37720    | 3.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 63.80%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 77682    | 39.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 79.62%  |
| 24) Chloroform-d               | 5.08   | 84    | 51021    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 29569    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.60%  |
| 32) Benzene-d6                 | 5.74   | 84    | 95243    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 31929    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.60%  |
| 41) Toluene-d8                 | 7.91   | 98    | 82728    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.20%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 12001    | 4.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.40%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 60258    | 42.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 85.60%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 23727    | 4.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 80.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 32629    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.80% |

## Target Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|-----------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane            | 1.53  | 50   | 4382     | 0.533   | ug/L   | 93     |
| 13) Acetone                 | 2.66  | 43   | 6150     | 4.613   | ug/L # | 42     |
| 22) cis-1,2-Dichloroethene  | 4.69  | 96   | 2923     | 0.440   | ug/L   | 99     |
| 25) Chloroform              | 5.11  | 83   | 2330     | 0.195   | ug/L   | 98     |
| 34) Trichloroethene         | 6.56  | 95   | 11562    | 1.821   | ug/L   | 98     |
| 35) Methylcyclohexane       | 6.70  | 83   | 7293     | 0.750   | ug/L # | 17     |
| 37) 1,2-Dichloropropane     | 6.71  | 63   | 3823     | 0.588   | ug/L # | 85     |
| 39) cis-1,3-Dichloropropene | 7.57  | 75   | 910      | 0.100   | ug/L # | 40     |
| 45) 1,1,2-Trichloroethane   | 8.56  | 97   | 19496    | 3.946   | ug/L # | 9      |
| 47) Tetrachloroethene       | 8.56  | 164  | 1857256  | 396.483 | ug/L   | 98     |
| 49) Dibromochloromethane    | 8.56  | 129  | 1797397  | 304.743 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane  | 11.81 | 75   | 4337     | 0.931   | ug/L # | 86     |

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





#3

Chloromethane

Concen: 0.533 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039953.D

Acq: 24 Aug 2020 17:47

Instrument :

MSVOA\_U

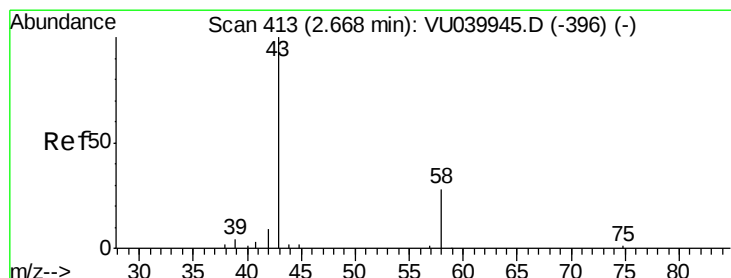
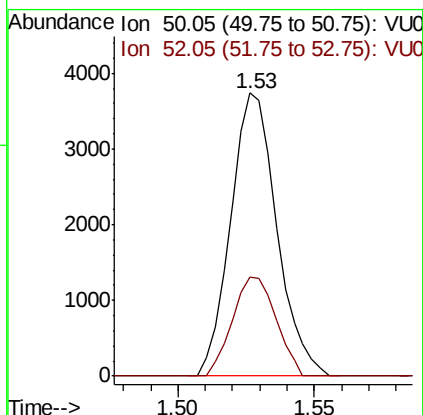
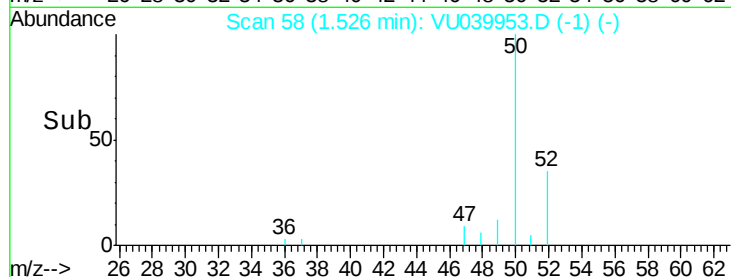
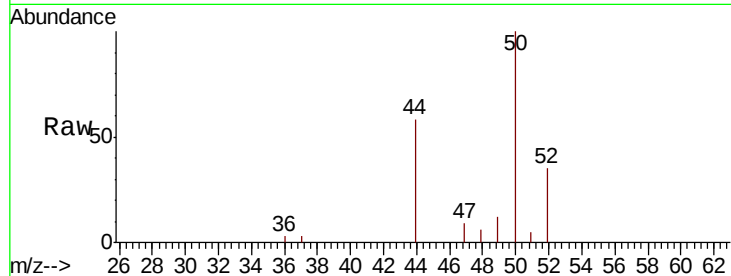
ClientSampleId :

Tot Ion: 50 Resp: 4382

Ion Ratio Lower Upper

50 100

52 35.2 21.9 40.7



#13

Acetone

Concen: 4.613 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

Lab File: VU039953.D

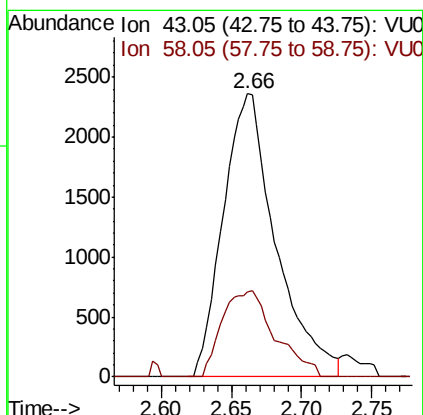
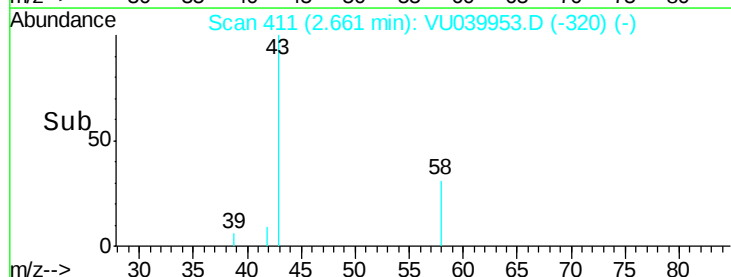
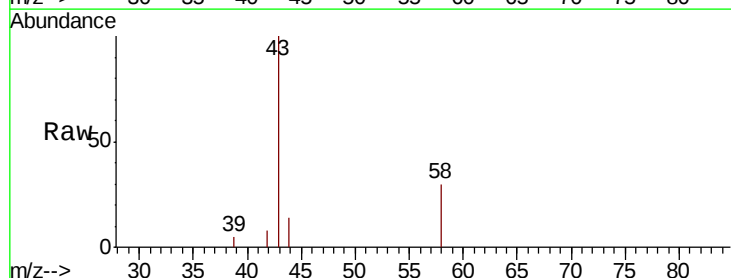
Acq: 24 Aug 2020 17:47

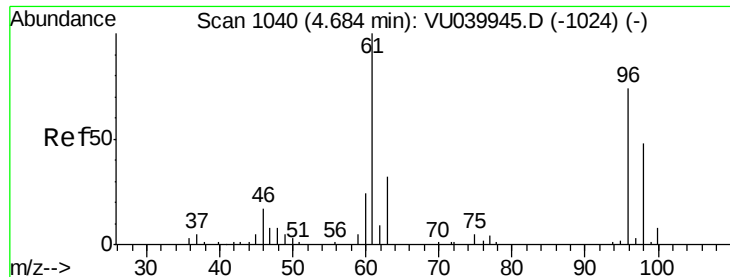
Tgt Ion: 43 Resp: 6150

Ion Ratio Lower Upper

43 100

58 30.7 0.0 19.0#





#22

cis-1,2-Dichloroethene

Concen: 0.440 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039953.D

Acq: 24 Aug 2020 17:47

Instrument :  
MSVOA\_U  
ClientSampleId :

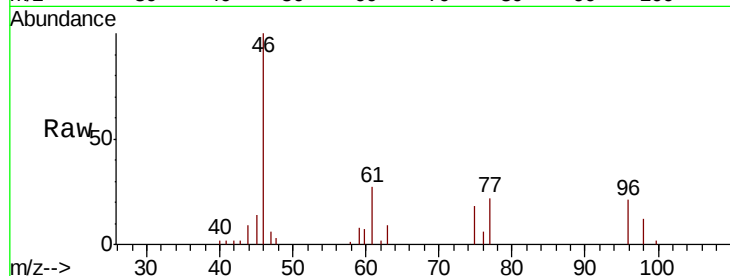
Tot Ion: 96 Resp: 2923

Ion Ratio Lower Upper

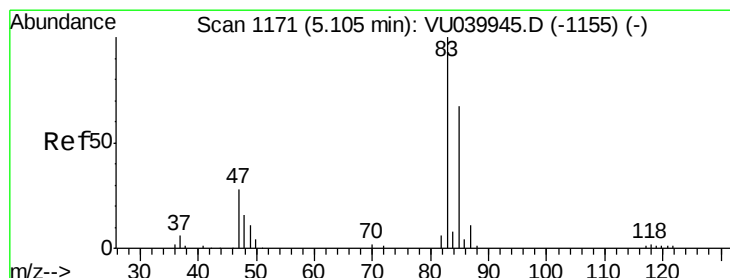
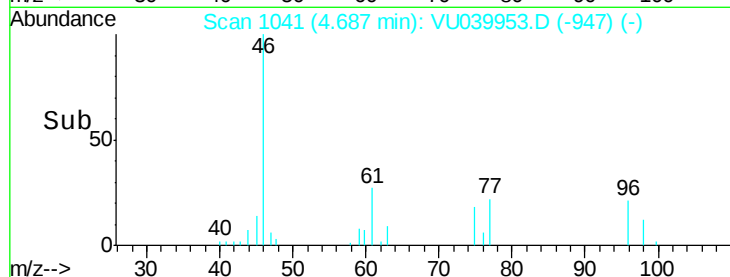
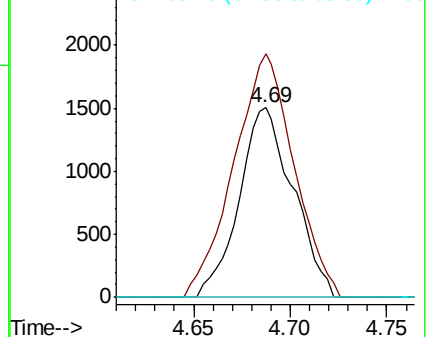
96 100

61 128.5 90.9 168.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 68.15 (67.85 to 68.85): VU0



#25

Chloroform

Concen: 0.195 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU039953.D

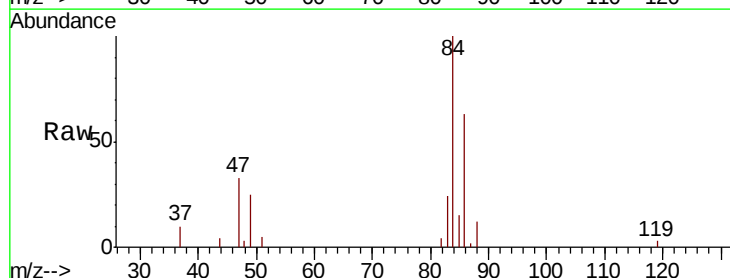
Acq: 24 Aug 2020 17:47

Tgt Ion: 83 Resp: 2330

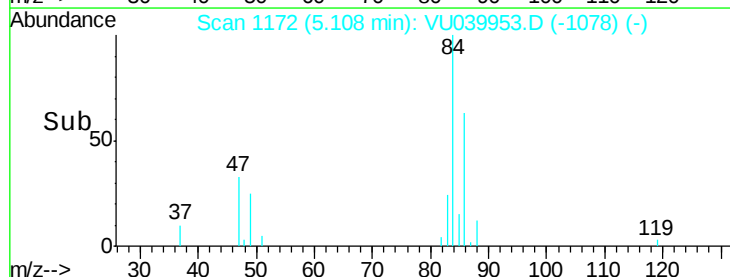
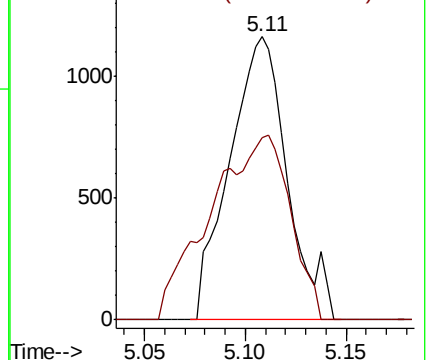
Ion Ratio Lower Upper

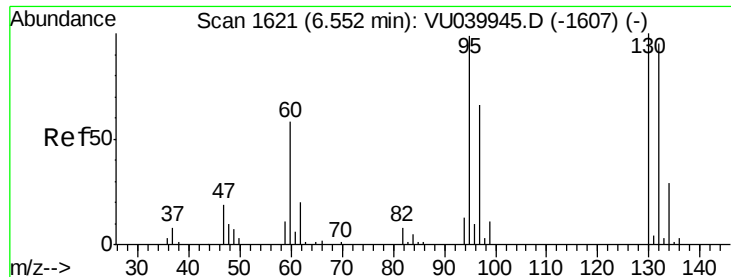
83 100

85 64.4 46.4 86.2



Abundance Ion 83.05 (82.75 to 83.75): VU0  
Ion 85.00 (84.70 to 85.70): VU0

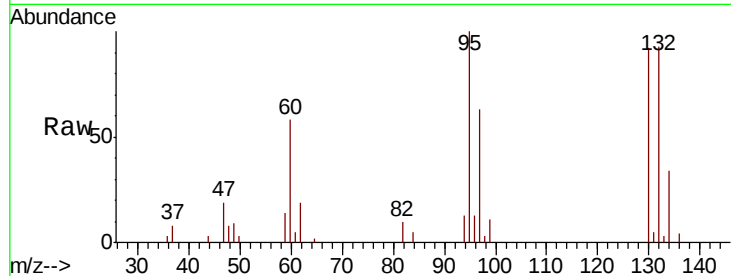




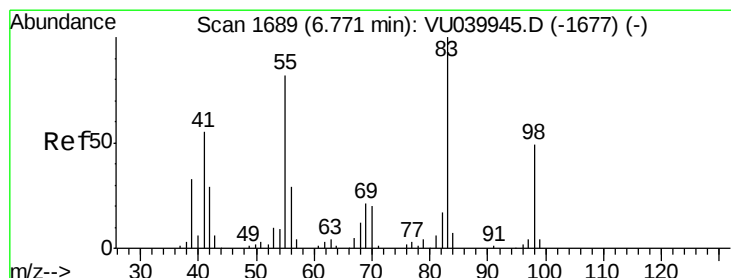
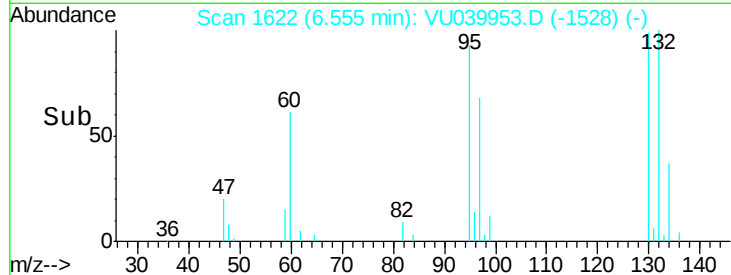
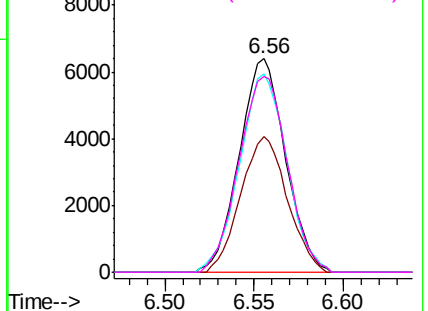
#34  
 Trichloroethene  
 Concen: 1.821 ug/L  
 RT: 6.56 min Scan# 1622  
 Delta R.T. 0.00 min  
 Lab File: VU039953.D  
 Acq: 24 Aug 2020 17:47

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 95 Resp: 11562  
 Ion Ratio Lower Upper  
 95 100  
 97 63.4 42.0 78.0  
 132 92.7 65.0 120.8  
 130 92.0 65.5 121.7

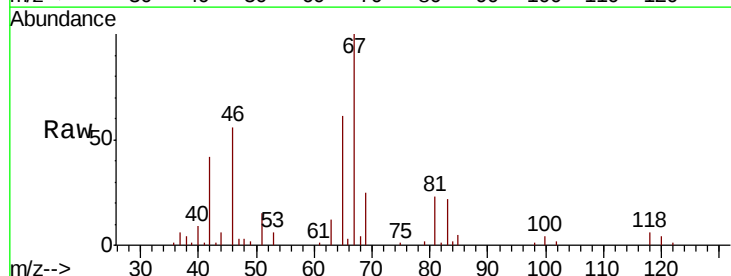


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

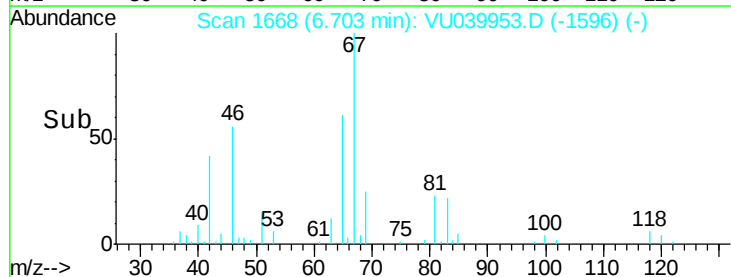
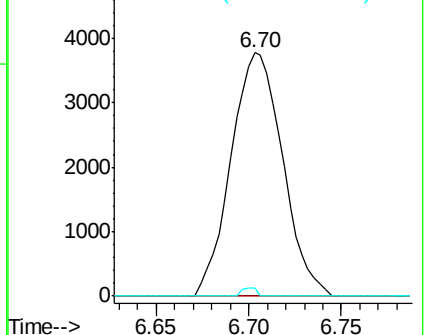


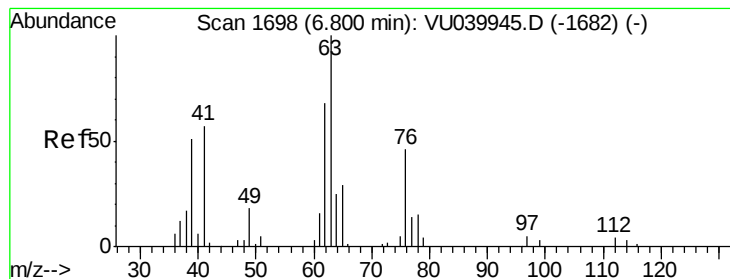
#35  
 Methylcyclohexane  
 Concen: 0.750 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.07 min  
 Lab File: VU039953.D  
 Acq: 24 Aug 2020 17:47

Tgt Ion: 83 Resp: 7293  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 64.1 96.1#  
 98 0.9 39.4 59.0#



Abundance Ion 83.15 (82.85 to 83.85): VU0  
 Ion 55.10 (54.80 to 55.80): VU0  
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.588 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.09 min

Lab File: VU039953.D

Acq: 24 Aug 2020 17:47

Instrument :

MSVOA\_U

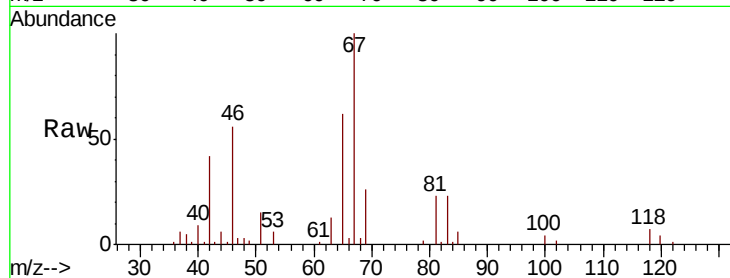
ClientSampleId :

Tot Ion: 63 Resp: 3823

Ion Ratio Lower Upper

63 100

112 0.0 4.1 6.1#



Abundance Ion 63.10 (62.80 to 63.80): VU039945.D (-1682) (-)

Ion 112.10 (111.80 to 112.80): VU039945.D (-1682) (-)

2500

2000

1500

1000

500

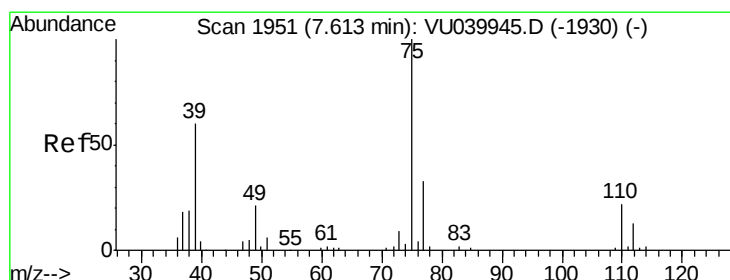
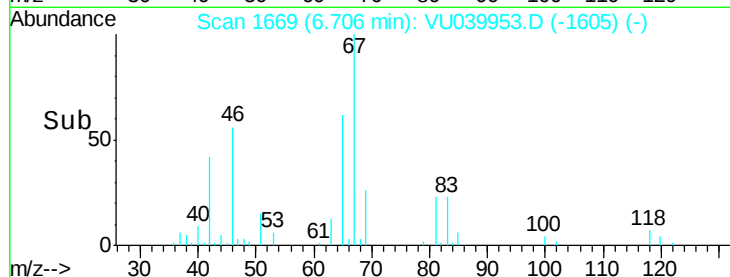
0

6.65

6.70

6.75

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.100 ug/L

RT: 7.57 min Scan# 1937

Delta R.T. -0.05 min

Lab File: VU039953.D

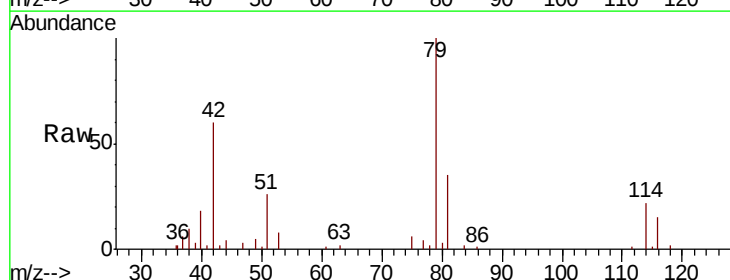
Acq: 24 Aug 2020 17:47

Tgt Ion: 75 Resp: 910

Ion Ratio Lower Upper

75 100

77 65.7 22.6 42.0#



Abundance Ion 75.05 (74.75 to 75.75): VU039945.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU039945.D (-1930) (-)

600

400

200

0

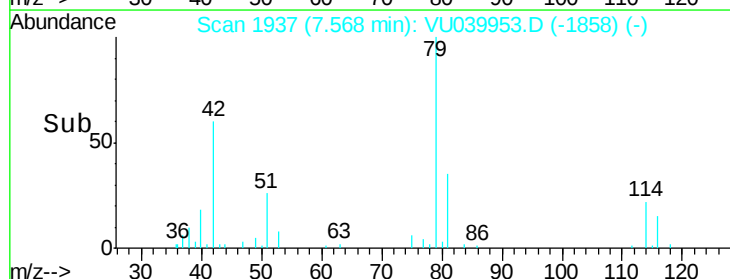
7.54

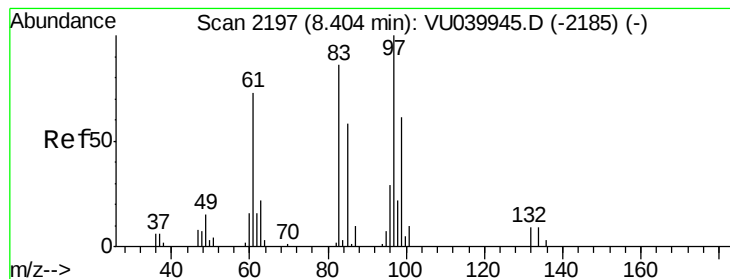
7.56

7.58

7.60

Time-->





#45

1,1,2-Trichloroethane

Concen: 3.946 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. 0.16 min

Lab File: VU039953.D

Acq: 24 Aug 2020 17:47

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 97 Resp: 19496

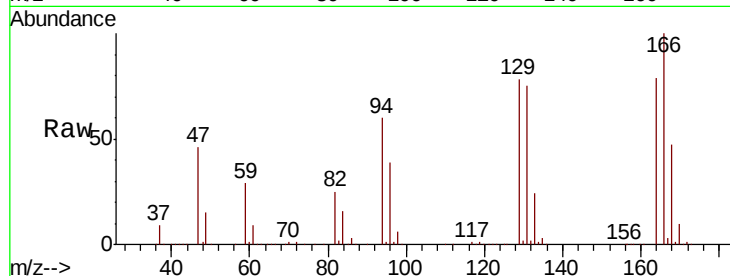
Ion Ratio Lower Upper

97 100

99 16.1 42.1 78.3#

83 229.0 59.3 110.1#

85 38.9 37.2 69.2

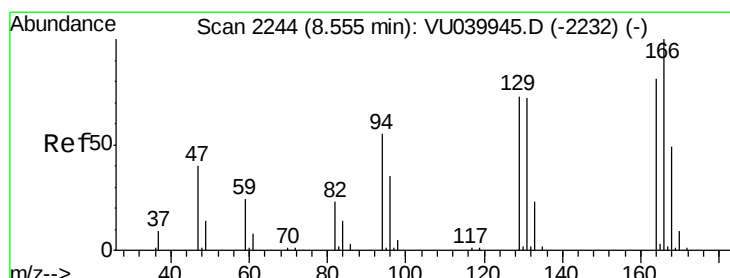
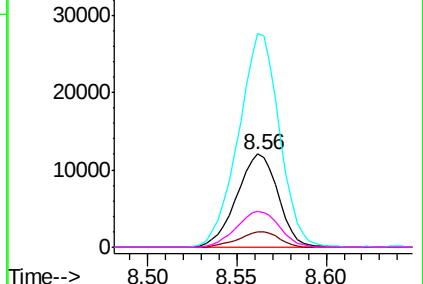
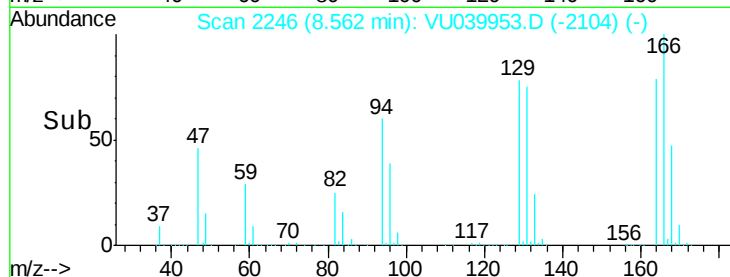


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 396.483 ug/L

RT: 8.56 min Scan# 2247

Delta R.T. 0.01 min

Lab File: VU039953.D

Acq: 24 Aug 2020 17:47

Tgt Ion:164 Resp: 1857256

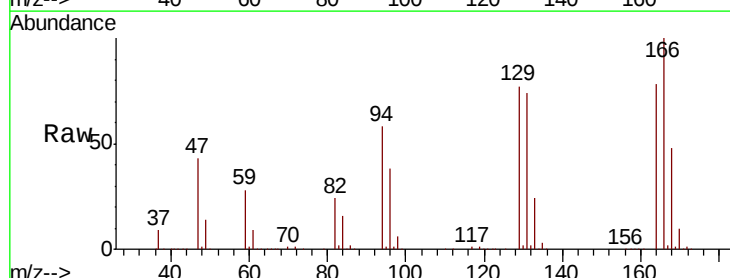
Ion Ratio Lower Upper

164 100

129 98.0 69.1 128.3

131 94.6 66.0 122.6

166 128.0 94.0 174.6

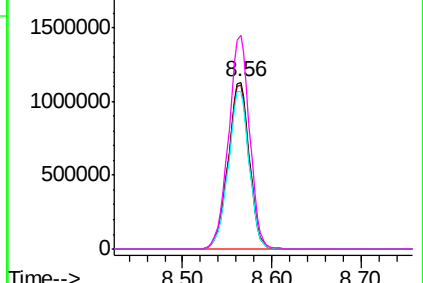
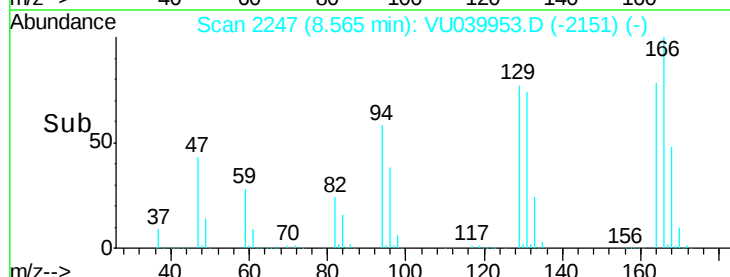


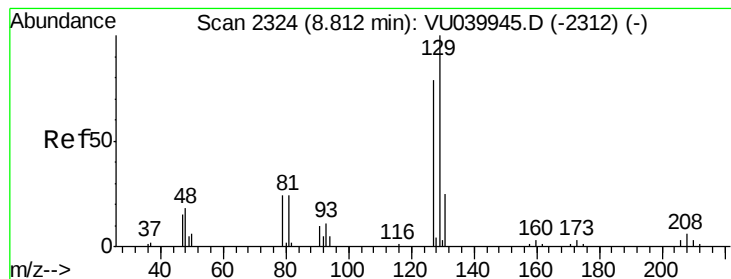
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#49

Dibromochloromethane

Concen: 304.743 ug/L

RT: 8.56 min Scan# 2247

Delta R.T. -0.25 min

Lab File: VU039953.D

Acq: 24 Aug 2020 17:47

Instrument :

MSVOA\_U

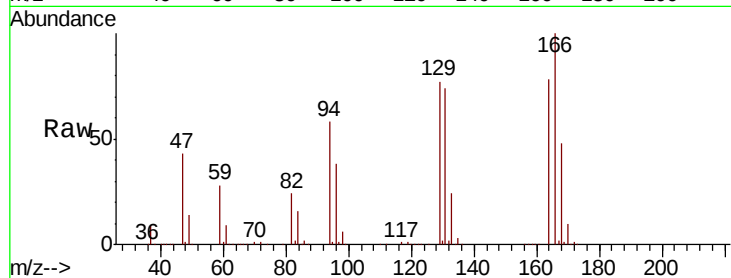
ClientSampleId :

Tot Ion:129 Resp: 1797397

Ion Ratio Lower Upper

129 100

127 0.0 53.1 98.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

1200000

1000000

800000

600000

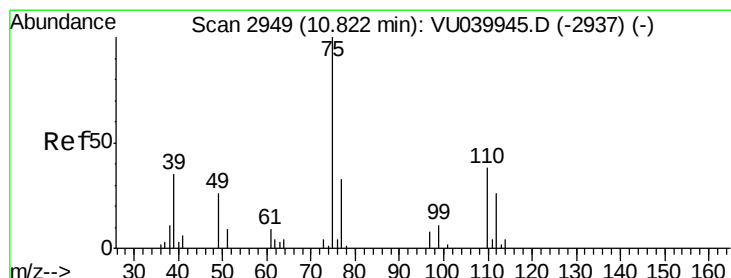
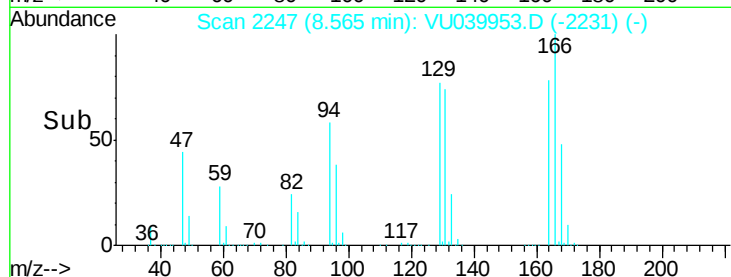
400000

200000

0

Time-->

8.50 8.55 8.60 8.65



#59

1,2,3-Trichloropropane

Concen: 0.931 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU039953.D

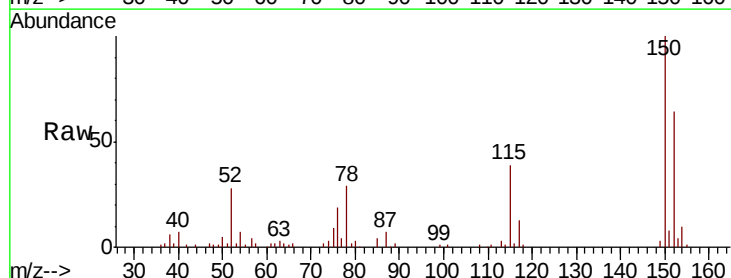
Acq: 24 Aug 2020 17:47

Tgt Ion: 75 Resp: 4337

Ion Ratio Lower Upper

75 100

77 42.3 27.4 41.2#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

3000

2000

1000

0

Time-->

11.75 11.80 11.85

