

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110320\  
 Data File : VU041075.D  
 Acq On : 03 Nov 2020 13:51  
 Operator : SY/MD  
 Sample : L4614-06  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BG1B1

Quant Time: Nov 04 00:59:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Nov 04 00:51:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 49397    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 52712    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 24525    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 17583    | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 84.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 13944    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 25832    | 3.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 63.40%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 76123    | 55.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 111.40% |
| 24) Chloroform-d               | 5.08   | 84    | 34984    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 22479    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 62112    | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 21516    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.80%  |
| 41) Toluene-d8                 | 7.91   | 98    | 50053    | 3.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 78.40%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 8569     | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 60074    | 56.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 112.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 21068    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 21355    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.20%  |

## Target Compounds

|                               |       |     |         |          | Ovalue    |
|-------------------------------|-------|-----|---------|----------|-----------|
| 13) Acetone                   | 2.66  | 43  | 1813    | 1.940    | ug/L 96   |
| 15) Methyl Acetate            | 2.97  | 43  | 837     | 0.392    | ug/L # 53 |
| 22) cis-1,2-Dichloroethene    | 4.69  | 96  | 38336   | 10.481   | ug/L 89   |
| 25) Chloroform                | 5.11  | 83  | 725     | 0.102    | ug/L 76   |
| 27) 1,2-Dichloroethane        | 5.74  | 62  | 346     | 0.065    | ug/L # 74 |
| 34) Trichloroethene           | 6.56  | 95  | 9187    | 2.292    | ug/L 95   |
| 35) Methylcyclohexane         | 6.78  | 83  | 163     | 0.027    | ug/L # 41 |
| 37) 1,2-Dichloropropane       | 6.70  | 63  | 2498    | 0.586    | ug/L # 86 |
| 39) cis-1,3-Dichloropropene   | 7.58  | 75  | 452     | 0.077    | ug/L # 44 |
| 44) trans-1,3-Dichloropropene | 8.19  | 75  | 340     | 0.062    | ug/L # 36 |
| 45) 1,1,2-Trichloroethane     | 8.58  | 97  | 100565  | 31.699   | ug/L # 10 |
| 47) Tetrachloroethene         | 8.58  | 164 | 7741088 | 2626.448 | ug/L 87   |
| 48) 2-Hexanone                | 8.64  | 43  | 8120    | 3.174    | ug/L # 71 |
| 49) Dibromochloromethane      | 8.58  | 129 | 9251162 | 2510.948 | ug/L # 11 |
| 59) 1,2,3-Trichloropropane    | 11.81 | 75  | 3477    | 1.095    | ug/L # 86 |

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Sample : L4614-06  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BG1B1

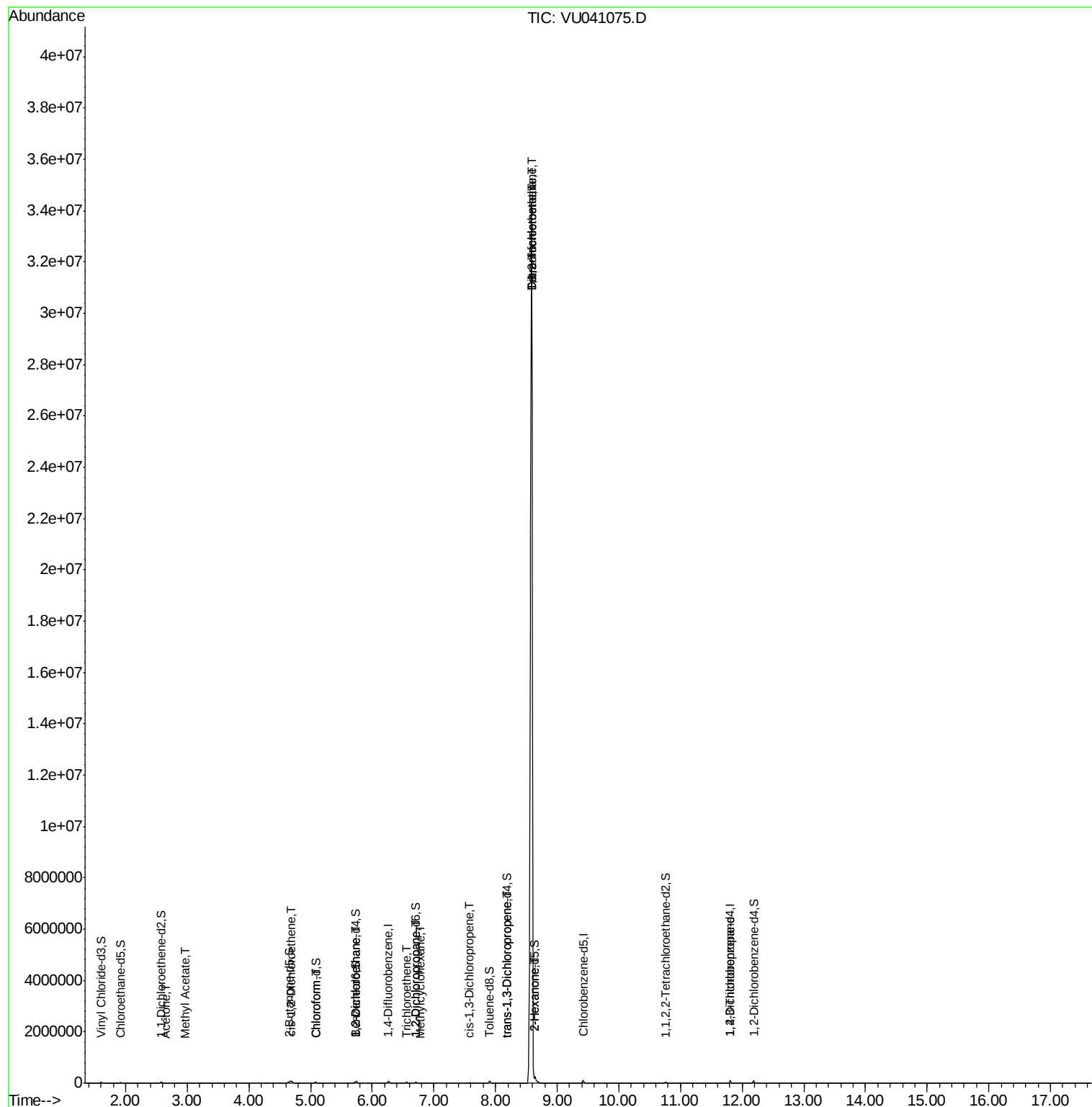
Quant Time: Nov 04 00:59:50 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Nov 04 00:51:13 2020  
Response via : Initial Calibration

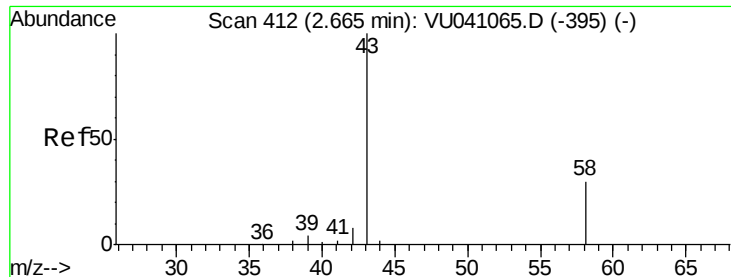
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#13

Acetone

Concen: 1.940 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.01 min

Lab File: VU041075.D

Acq: 03 Nov 2020 13:51

Instrument :

MSVOA\_U

ClientSampleId :

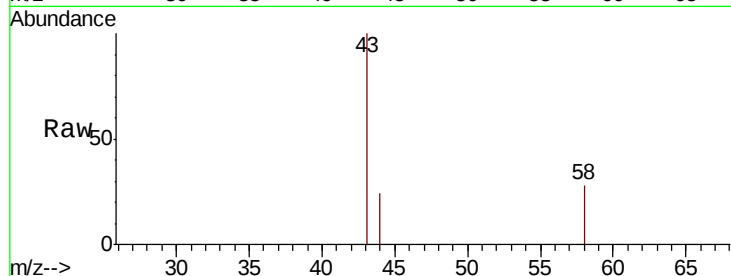
BG1B1

Tot Ion: 43 Resp: 1813

Ion Ratio Lower Upper

43 100

58 14.5 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.66

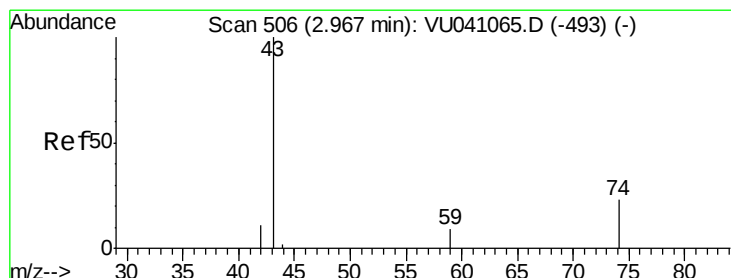
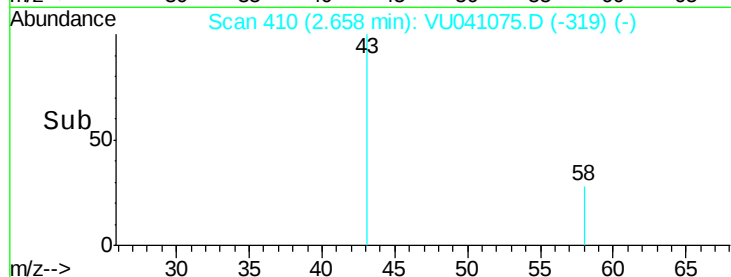
600

400

200

0

Time-->



#15

Methyl Acetate

Concen: 0.392 ug/L

RT: 2.97 min Scan# 508

Delta R.T. 0.01 min

Lab File: VU041075.D

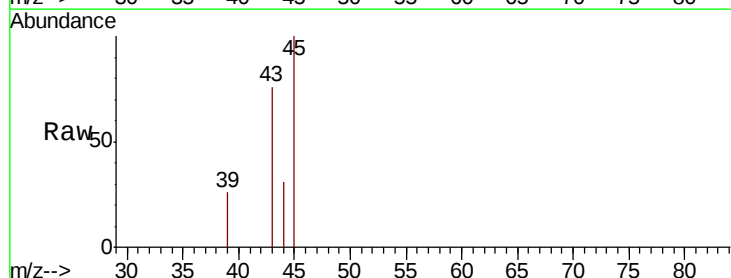
Acq: 03 Nov 2020 13:51

Tgt Ion: 43 Resp: 837

Ion Ratio Lower Upper

43 100

74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.97

400

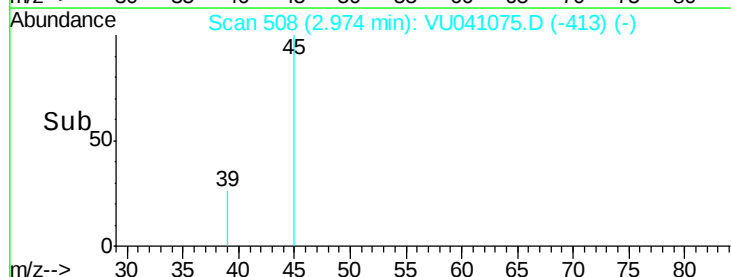
300

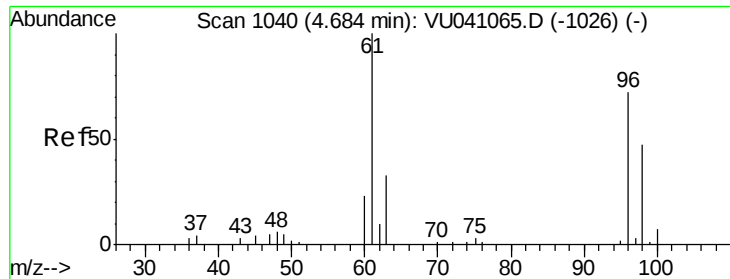
200

100

0

Time-->

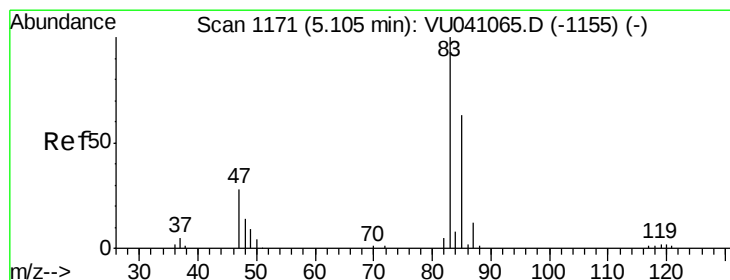
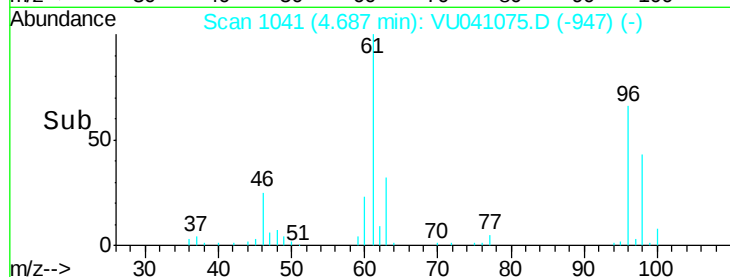
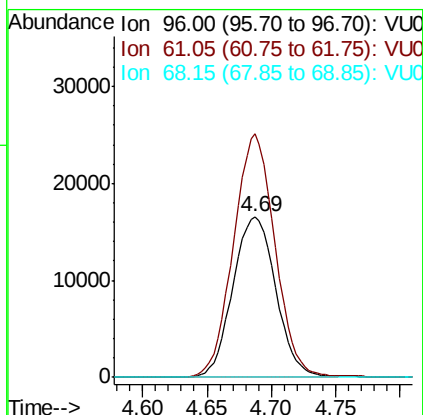
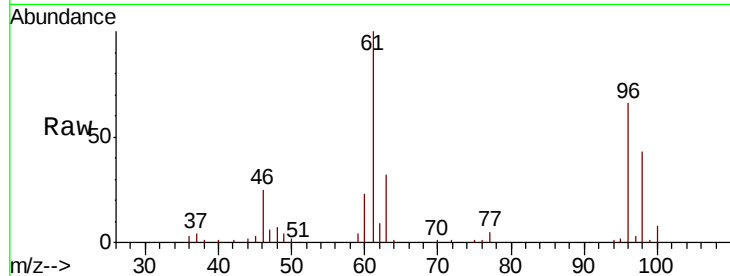




#22  
 cis-1,2-Dichloroethene  
 Concen: 10.481 ug/L  
 RT: 4.69 min Scan# 1041  
 Delta R.T. 0.00 min  
 Lab File: VU041075.D  
 Acq: 03 Nov 2020 13:51

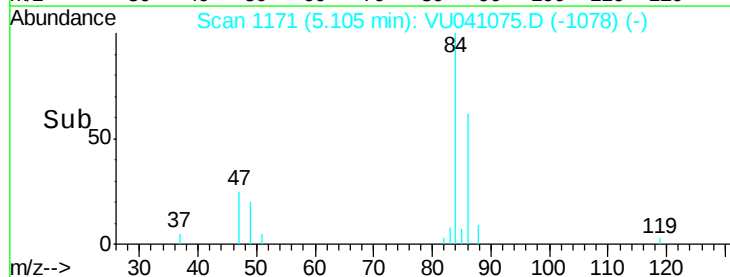
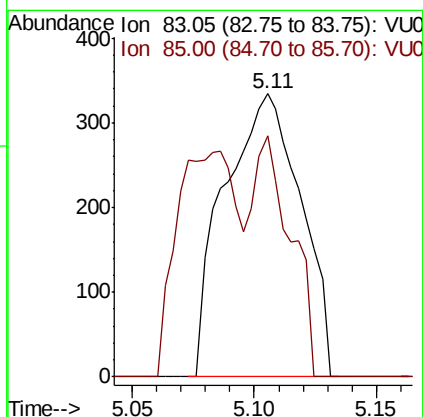
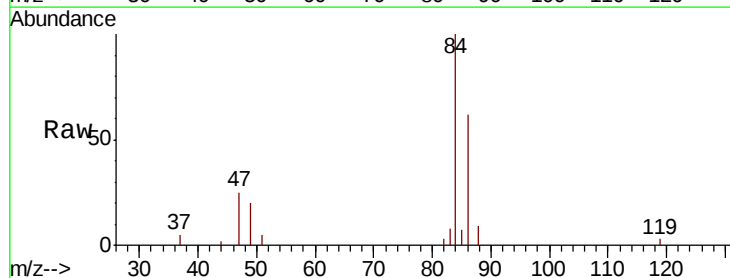
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BG1B1

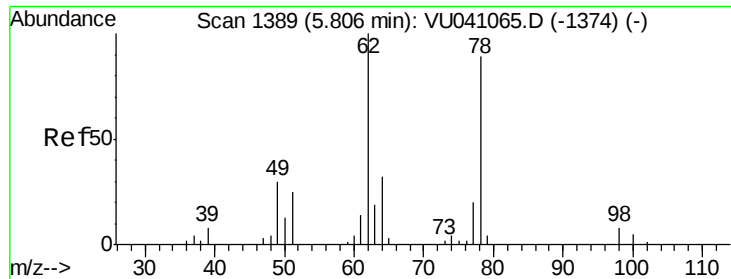
Tot Ion: 96 Resp: 38336  
 Ion Ratio Lower Upper  
 96 100  
 61 151.8 97.2 180.4  
 68 0.0 0.0 0.0



#25  
 Chloroform  
 Concen: 0.102 ug/L  
 RT: 5.11 min Scan# 1171  
 Delta R.T. 0.00 min  
 Lab File: VU041075.D  
 Acq: 03 Nov 2020 13:51

Tgt Ion: 83 Resp: 725  
 Ion Ratio Lower Upper  
 83 100  
 85 85.0 46.1 85.7





#27

1,2-Dichloroethane

Concen: 0.065 ug/L

RT: 5.74 min Scan# 1369

Delta R.T. -0.06 min

Lab File: VU041075.D

Acq: 03 Nov 2020 13:51

Instrument :

MSVOA\_U

ClientSampled :

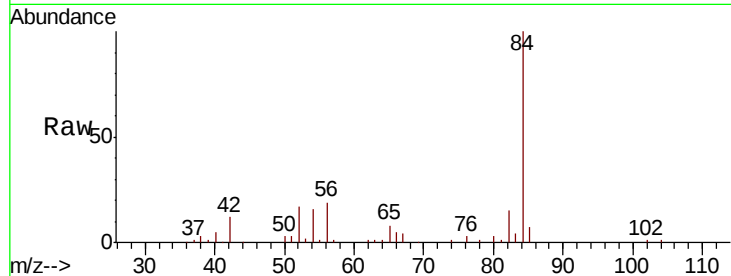
BG1B1

Tot Ion: 62 Resp: 346

Ion Ratio Lower Upper

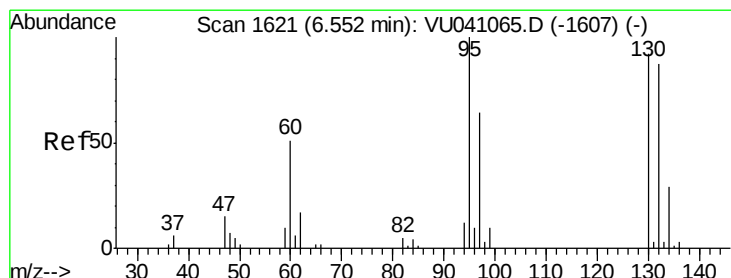
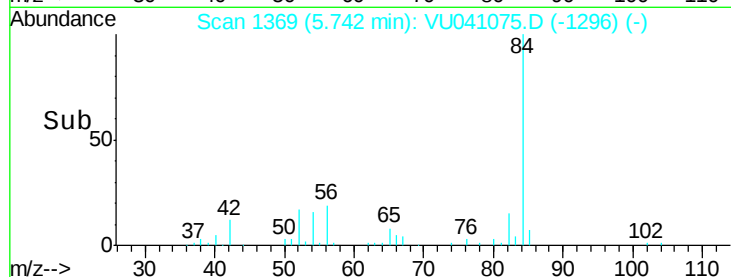
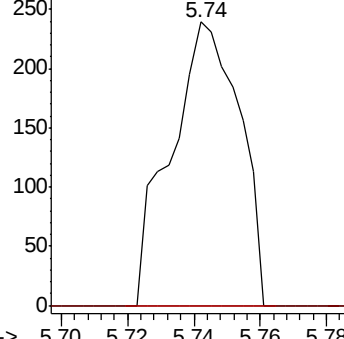
62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU041065.D (-1374) (-)

Ion 98.05 (97.75 to 98.75): VU041065.D (-1374) (-)



#34

Trichloroethene

Concen: 2.292 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041075.D

Acq: 03 Nov 2020 13:51

Tgt Ion: 95 Resp: 9187

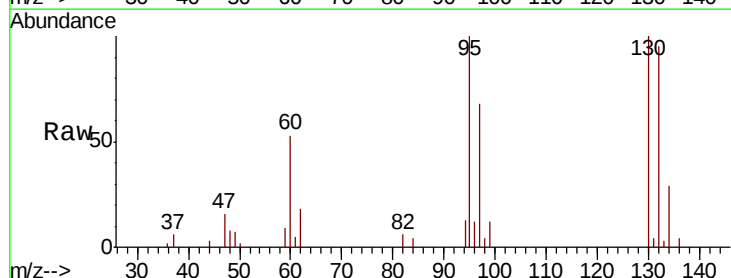
Ion Ratio Lower Upper

95 100

97 68.6 45.6 84.6

132 95.2 64.8 120.4

130 100.3 64.8 120.4

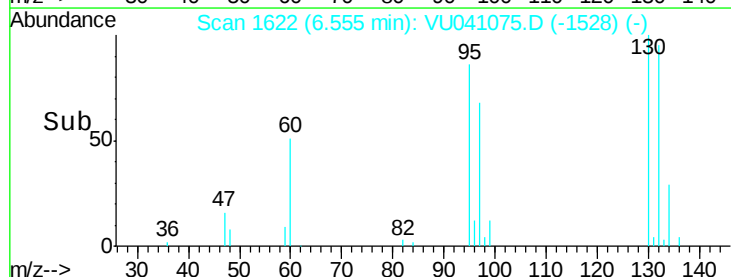
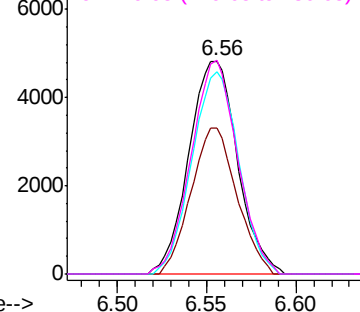


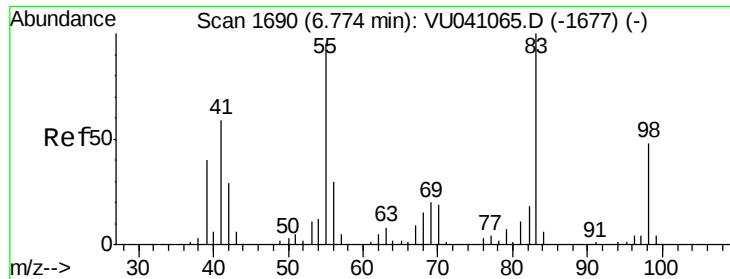
Abundance Ion 95.00 (94.70 to 95.70): VU041065.D (-1607) (-)

Ion 96.95 (96.65 to 97.65): VU041065.D (-1607) (-)

Ion 131.95 (131.65 to 132.65): VU041065.D (-1607) (-)

Ion 129.95 (129.65 to 130.65): VU041065.D (-1607) (-)

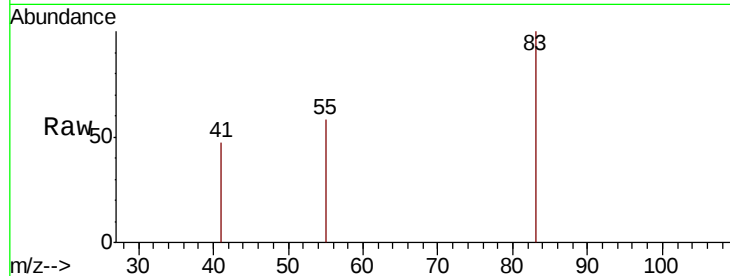




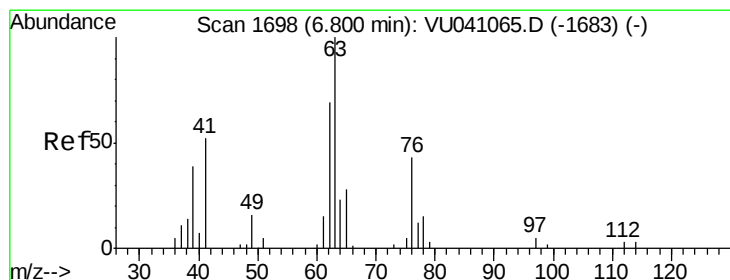
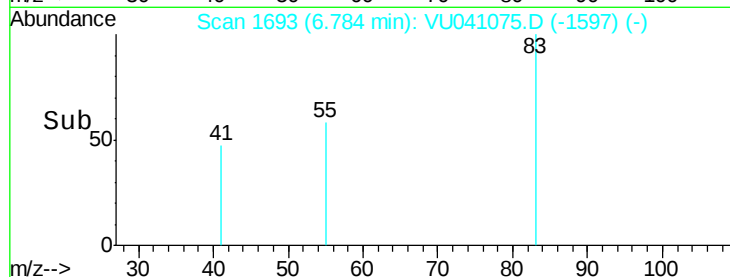
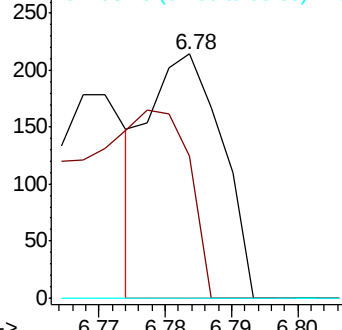
#35  
Methylcyclohexane  
Concen: 0.027 ug/L  
RT: 6.78 min Scan# 1693  
Delta R.T. 0.01 min  
Lab File: VU041075.D  
Acq: 03 Nov 2020 13:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
BG1B1

Tot Ion: 83 Resp: 163  
Ion Ratio Lower Upper  
83 100  
55 141.1 72.0 108.0#  
98 0.0 36.6 55.0#

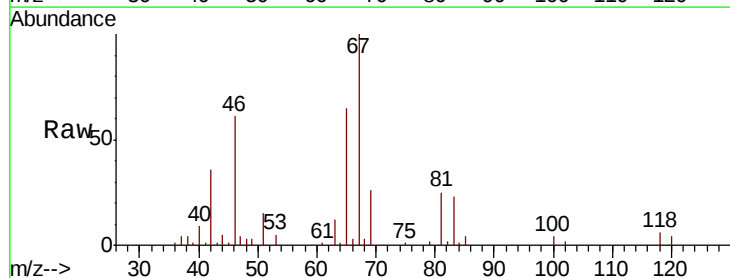


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

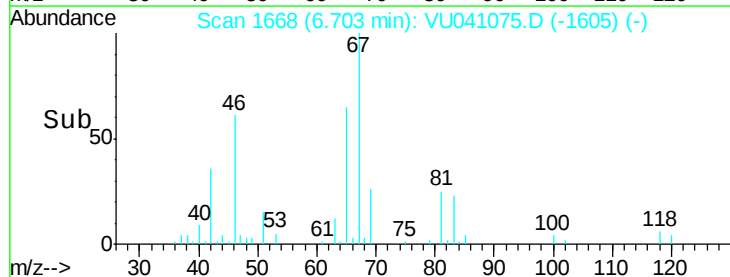
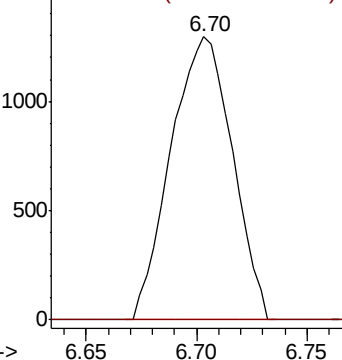


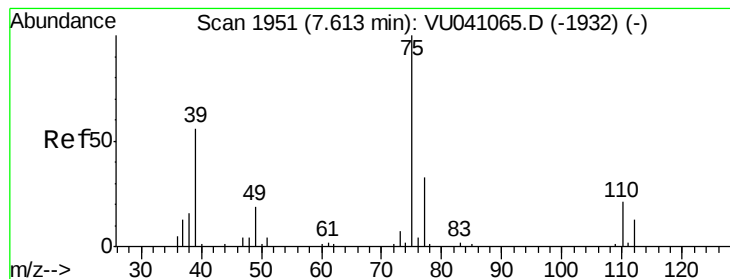
#37  
1,2-Dichloropropane  
Concen: 0.586 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.10 min  
Lab File: VU041075.D  
Acq: 03 Nov 2020 13:51

Tgt Ion: 63 Resp: 2498  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V





#39

cis-1,3-Dichloropropene

Concen: 0.077 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU041075.D

Acq: 03 Nov 2020 13:51

Instrument :

MSVOA\_U

ClientSampleId :

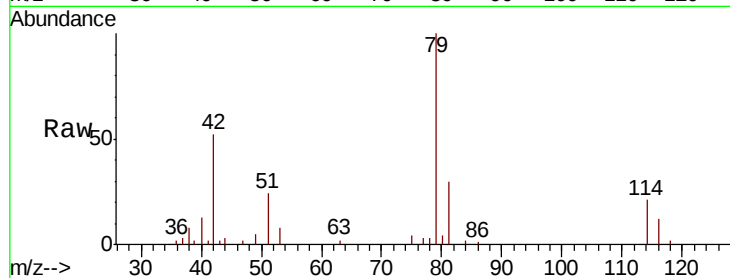
BG1B1

Tot Ion: 75 Resp: 452

Ion Ratio Lower Upper

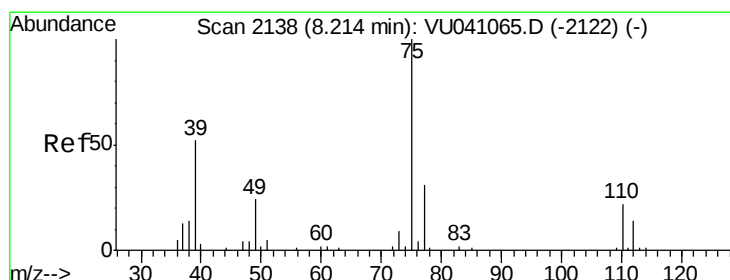
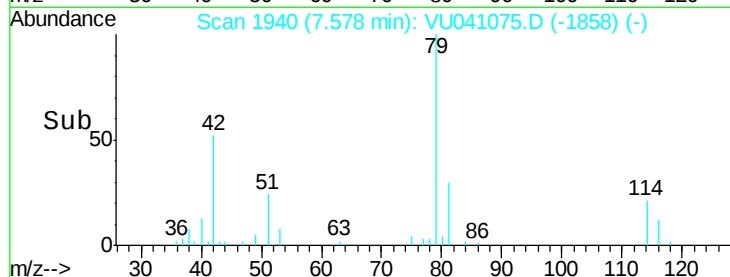
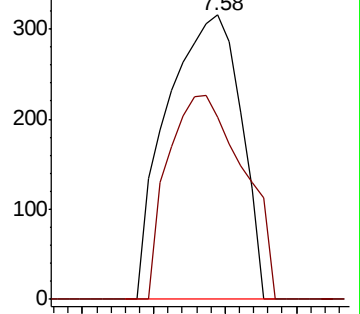
75 100

77 63.9 22.7 42.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.062 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041075.D

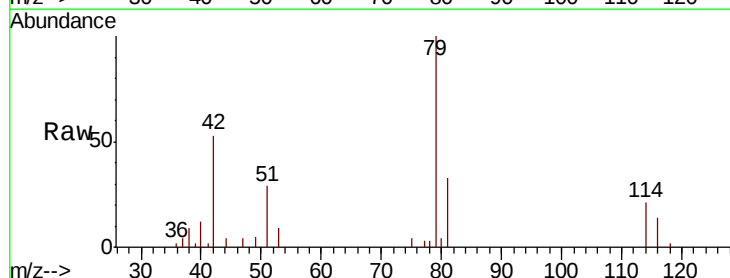
Acq: 03 Nov 2020 13:51

Tgt Ion: 75 Resp: 340

Ion Ratio Lower Upper

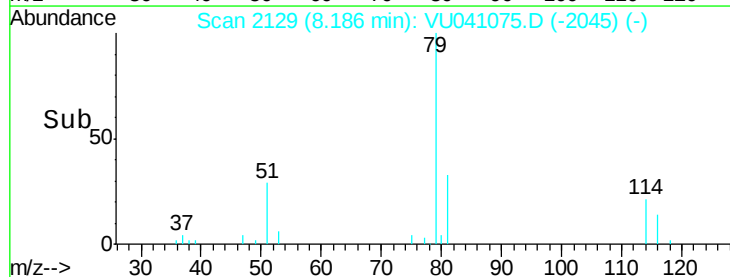
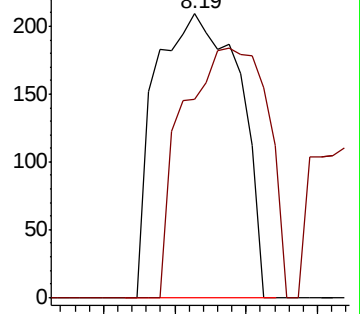
75 100

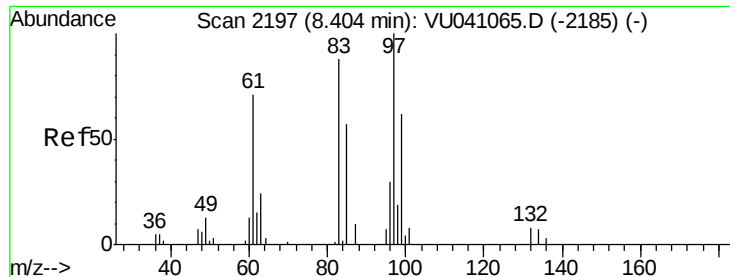
77 69.9 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 31.699 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.18 min

Lab File: VU041075.D

Acq: 03 Nov 2020 13:51

Instrument :

MSVOA\_U

ClientSampleId :

BG1B1

Tot Ion: 97 Resp: 100565

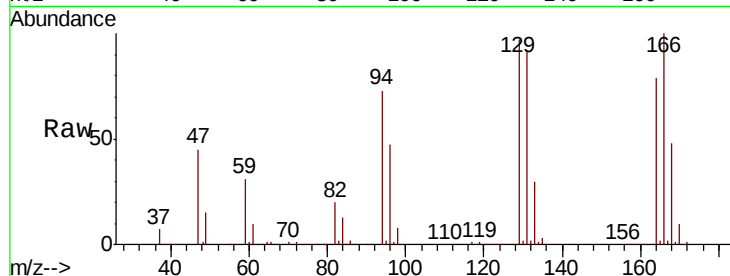
Ion Ratio Lower Upper

97 100

99 16.3 45.8 85.2#

83 239.4 67.9 126.1#

85 35.0 42.8 79.6#

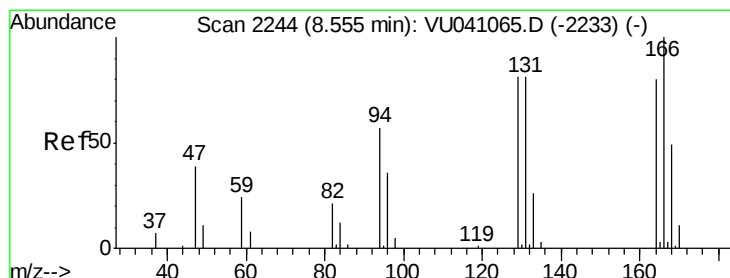
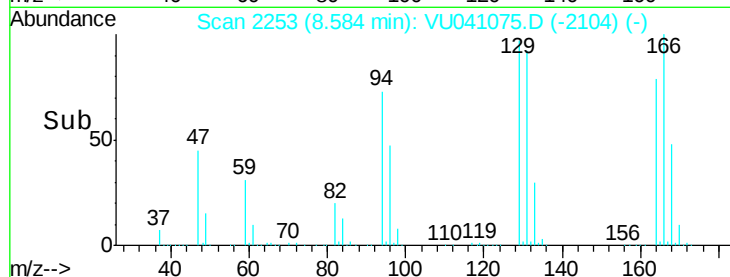
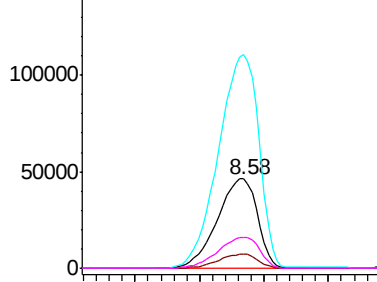


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 2626.448 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.03 min

Lab File: VU041075.D

Acq: 03 Nov 2020 13:51

Tgt Ion:164 Resp: 7741088

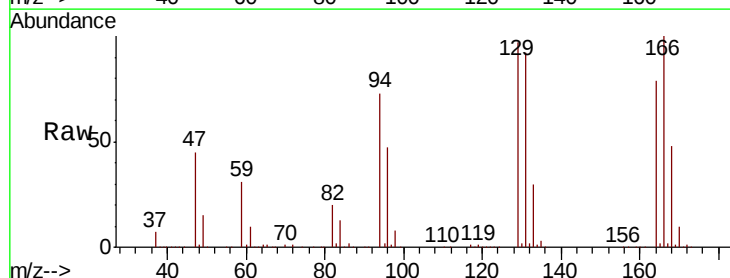
Ion Ratio Lower Upper

164 100

129 121.9 70.3 130.7

131 116.5 70.8 131.4

166 126.0 92.0 170.8

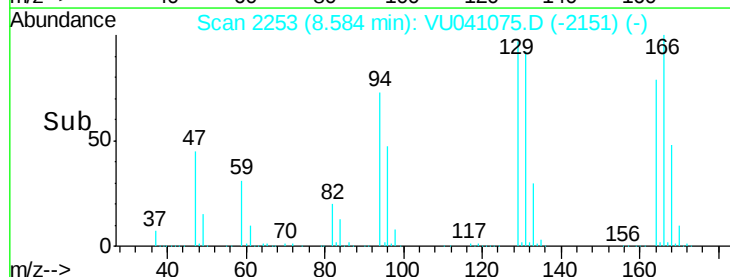
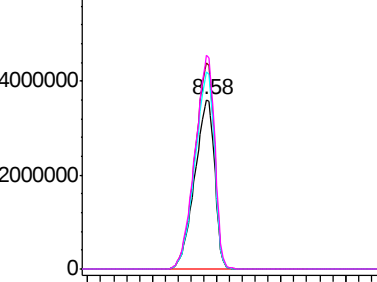


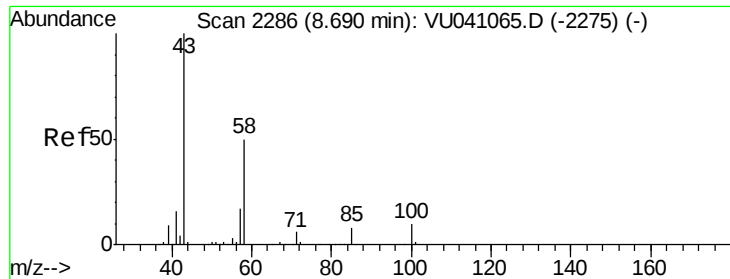
Abundance Ion 163.90 (163.60 to 164.60): V

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

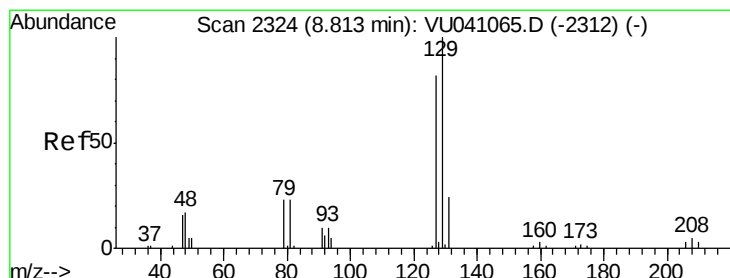
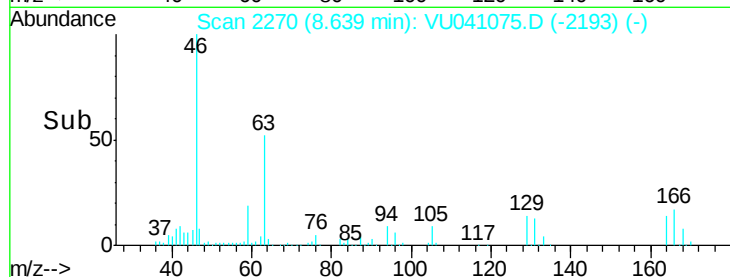
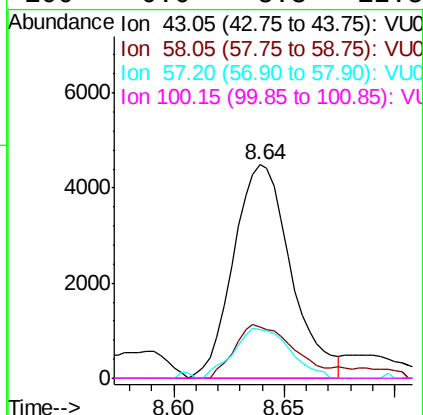
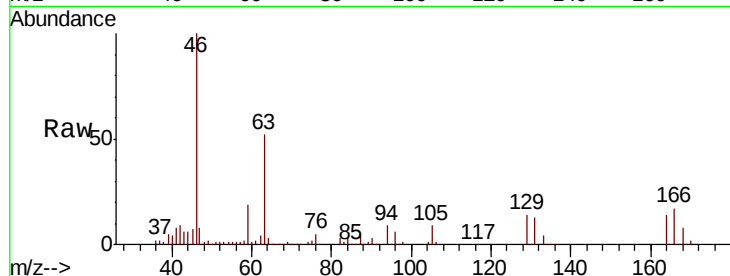




#48  
2-Hexanone  
Concen: 3.174 ug/L  
RT: 8.64 min Scan# 2270  
Delta R.T. -0.05 min  
Lab File: VU041075.D  
Acq: 03 Nov 2020 13:51

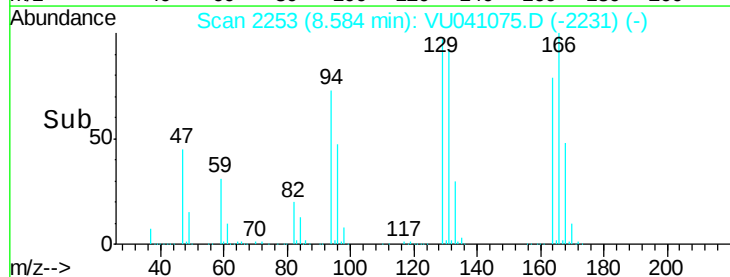
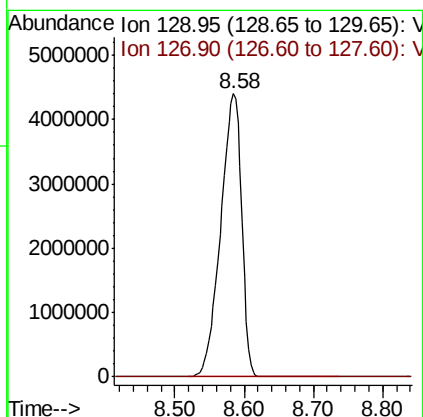
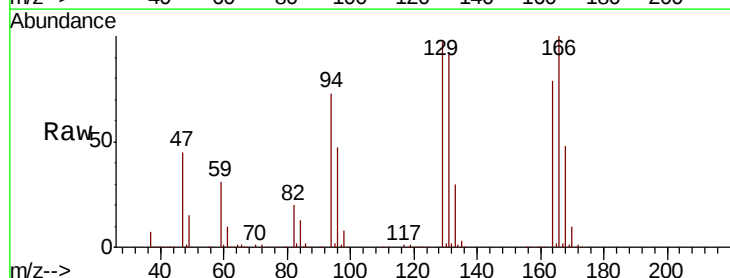
Instrument :  
MSVOA\_U  
ClientSampleId :  
BG1B1

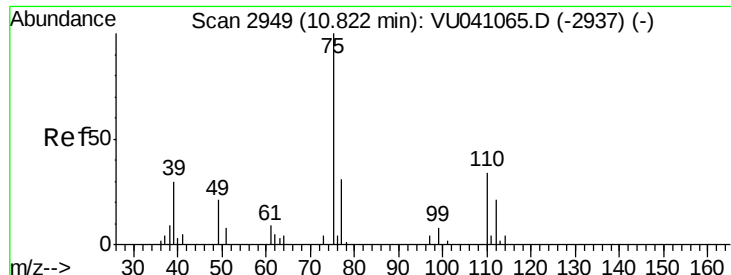
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 27.2  | 41.4  | 62.2# |
| 57      | 23.0  | 14.6  | 21.8# |
| 100     | 0.0   | 8.3   | 12.5# |



#49  
Dibromochloromethane  
Concen: 2510.948 ug/L  
RT: 8.58 min Scan# 2253  
Delta R.T. -0.23 min  
Lab File: VU041075.D  
Acq: 03 Nov 2020 13:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 0.0   | 53.4  | 99.2# |





#59

1,2,3-Trichloropropane

Concen: 1.095 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041075.D

Acq: 03 Nov 2020 13:51

Instrument :

MSVOA\_U

ClientSampleId :

BG1B1

Tot Ion: 75 Resp: 3477

Ion Ratio Lower Upper

75 100

77 40.0 25.7 38.5#

