

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110520\  
 Data File : VU041112.D  
 Acq On : 05 Nov 2020 18:12  
 Operator : SY/MD  
 Sample : L4648-06  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 06 01:52:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Nov 06 01:44:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 52821    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 54131    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 23536    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 15856    | 3.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 71.40%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 13734    | 4.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 80.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 22552    | 2.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 51.80%# |
| 20) 2-Butanone-d5              | 4.65   | 46    | 86223    | 59.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 118.00% |
| 24) Chloroform-d               | 5.08   | 84    | 38220    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 24296    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 63889    | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 23932    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.60% |
| 41) Toluene-d8                 | 7.91   | 98    | 48516    | 3.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 74.00%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 8943     | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.60%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 57937    | 52.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 105.34% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 23497    | 5.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 107.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 22031    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 106.80% |

## Target Compounds

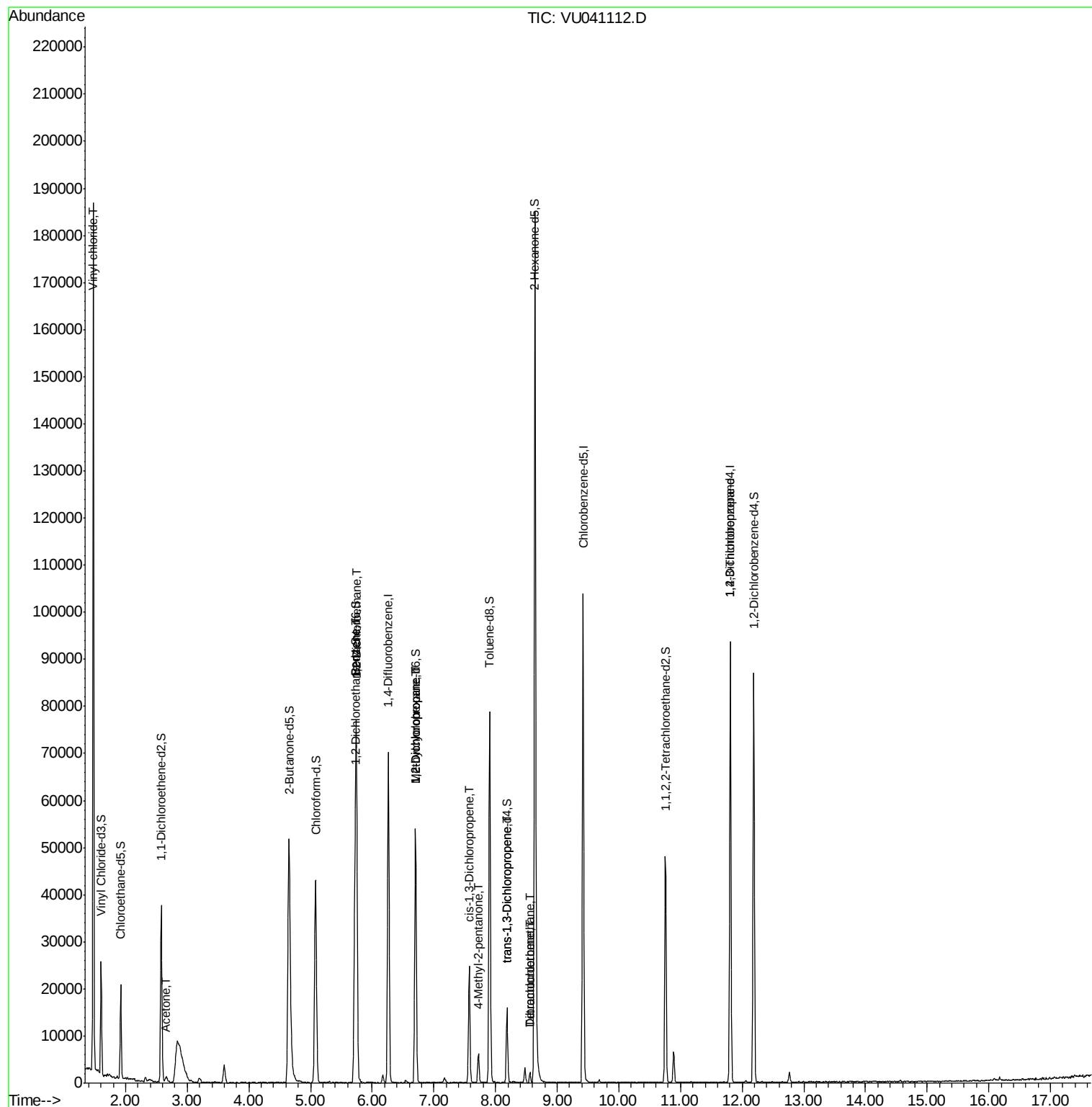
|                               |       |     |      |              | Ovalue |
|-------------------------------|-------|-----|------|--------------|--------|
| 5) Vinyl chloride             | 1.48  | 62  | 1642 | 0.331 ug/L # | 42     |
| 13) Acetone                   | 2.66  | 43  | 2347 | 2.349 ug/L   | 95     |
| 27) 1,2-Dichloroethane        | 5.75  | 62  | 299  | 0.053 ug/L # | 74     |
| 33) Benzene                   | 5.75  | 78  | 433  | 0.027 ug/L   | 100    |
| 35) Methylcyclohexane         | 6.70  | 83  | 5559 | 0.905 ug/L # | 13     |
| 37) 1,2-Dichloropropane       | 6.71  | 63  | 2776 | 0.634 ug/L # | 86     |
| 39) cis-1,3-Dichloropropene   | 7.57  | 75  | 641  | 0.106 ug/L # | 82     |
| 40) 4-Methyl-2-pentanone      | 7.72  | 43  | 2998 | 0.859 ug/L # | 45     |
| 44) trans-1,3-Dichloropropene | 8.19  | 75  | 397  | 0.070 ug/L # | 71     |
| 47) Tetrachloroethene         | 8.56  | 164 | 570  | 0.188 ug/L   | 85     |
| 49) Dibromochloromethane      | 8.56  | 129 | 482  | 0.127 ug/L # | 11     |
| 59) 1,2,3-Trichloropropane    | 11.81 | 75  | 3110 | 0.953 ug/L   | 94     |

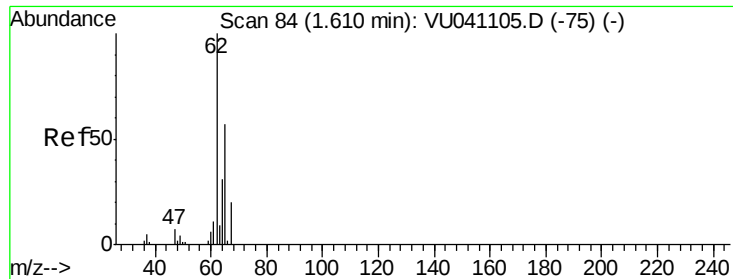
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Nov 06 01:52:40 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Nov 06 01:44:25 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.331 ug/L

RT: 1.48 min Scan# 42

Delta R.T. -0.13 min

Lab File: VU041112.D

Acq: 05 Nov 2020 18:12

Instrument :

MSVOA\_U

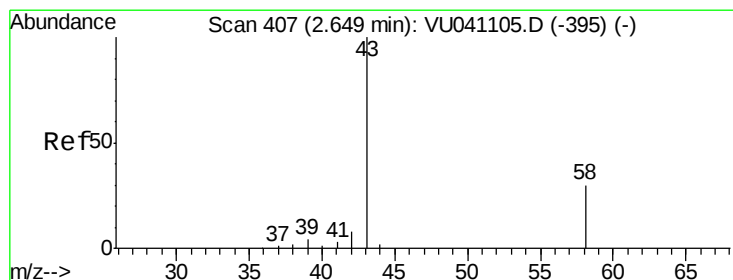
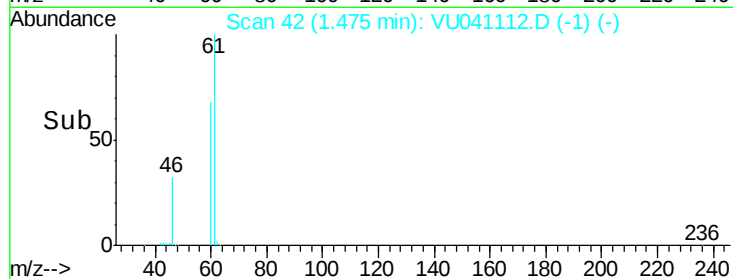
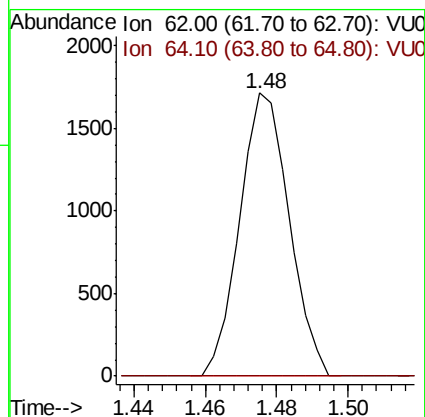
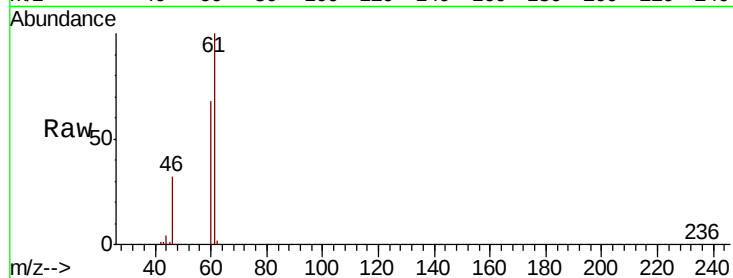
ClientSampleId :

Tot Ion: 62 Resp: 1642

Ion Ratio Lower Upper

62 100

64 0.0 22.7 42.3#



#13

Acetone

Concen: 2.349 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU041112.D

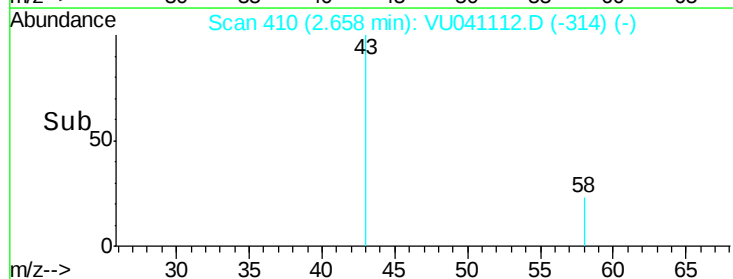
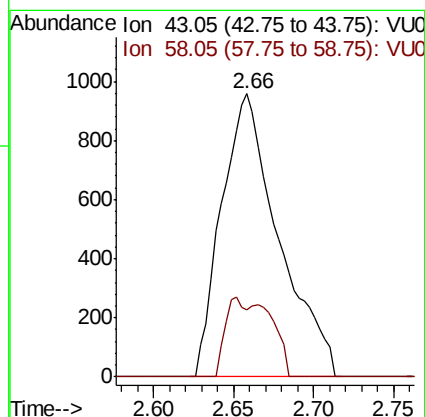
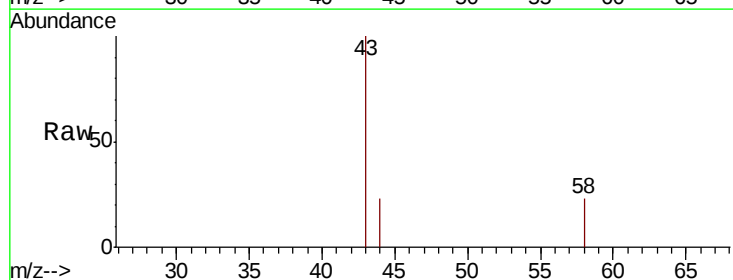
Acq: 05 Nov 2020 18:12

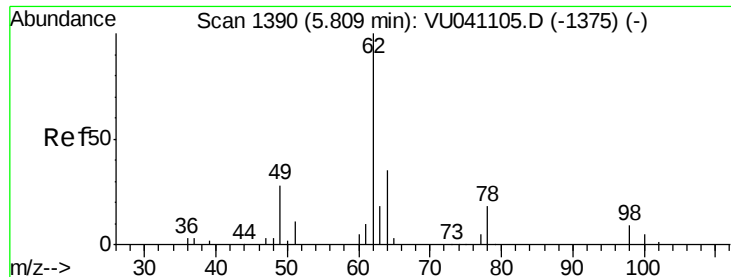
Tgt Ion: 43 Resp: 2347

Ion Ratio Lower Upper

43 100

58 10.6 0.0 25.4





#27

1,2-Dichloroethane

Concen: 0.053 ug/L

RT: 5.75 min Scan# 1372

Delta R.T. -0.06 min

Lab File: VU041112.D

Acq: 05 Nov 2020 18:12

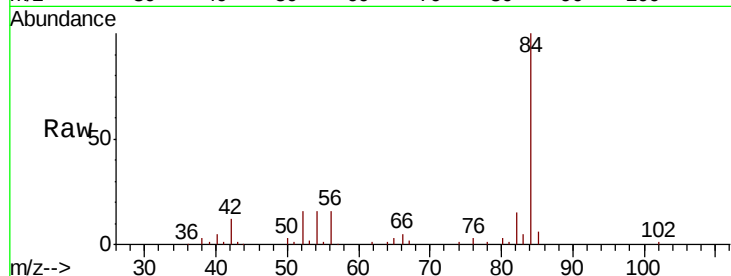
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 62 Resp: 299

Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU041112.D (-1297) (-)

Ion 98.05 (97.75 to 98.75): VU041112.D (-1297) (-)

5.75

200

150

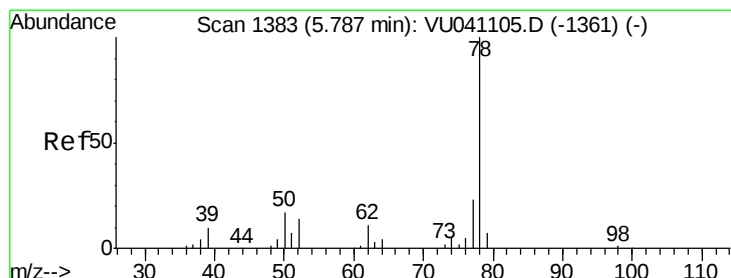
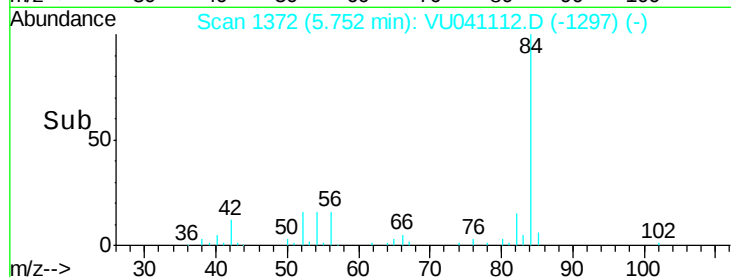
100

50

0

5.72 5.74 5.76

Time-->



#33

Benzene

Concen: 0.027 ug/L

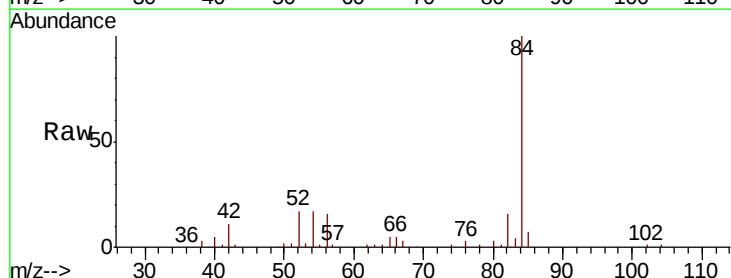
RT: 5.75 min Scan# 1370

Delta R.T. -0.04 min

Lab File: VU041112.D

Acq: 05 Nov 2020 18:12

Tgt Ion: 78 Resp: 433



Abundance Ion 78.10 (77.80 to 78.80): VU041112.D (-1290) (-)

5.75

300

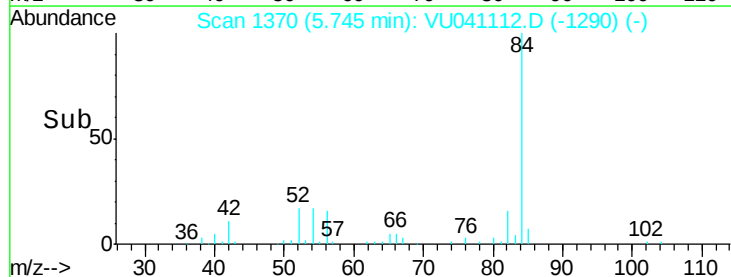
200

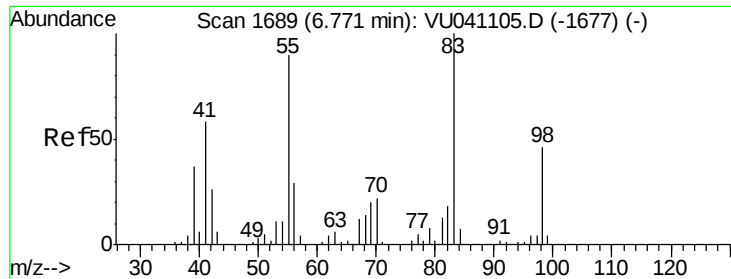
100

0

5.70 5.72 5.74 5.76 5.78

Time-->

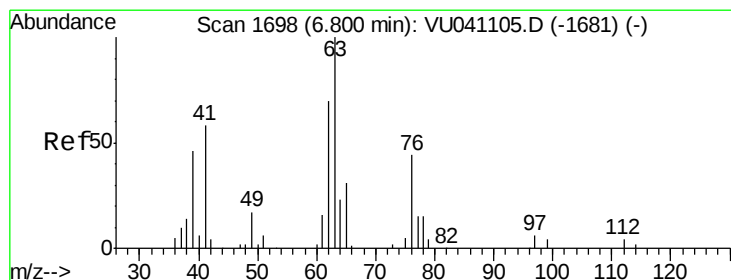
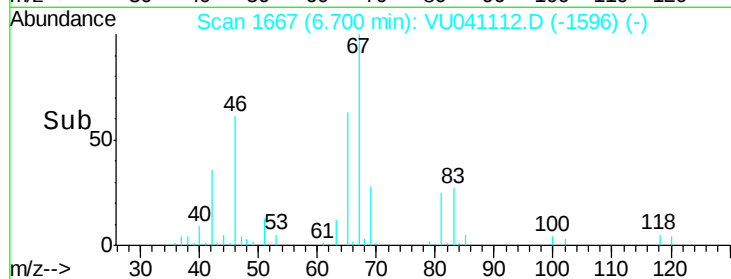
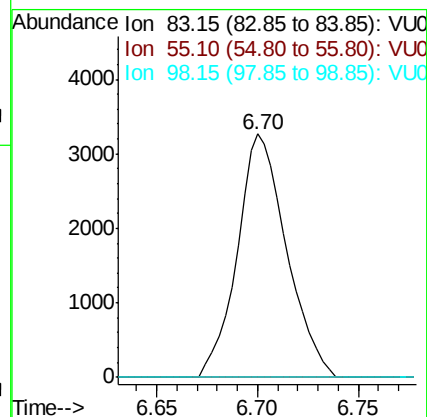
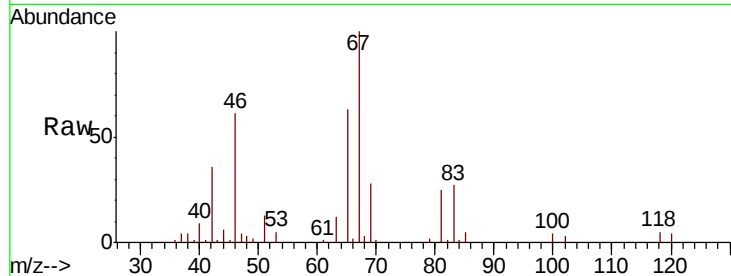




#35  
Methvlcvclohexane  
Concen: 0.905 ug/L  
RT: 6.70 min Scan# 1667  
Delta R.T. -0.07 min  
Lab File: VU041112.D  
Acq: 05 Nov 2020 18:12

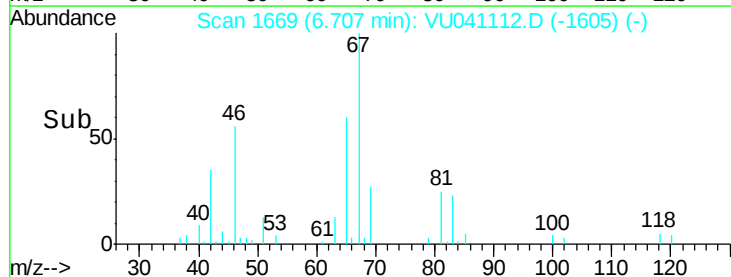
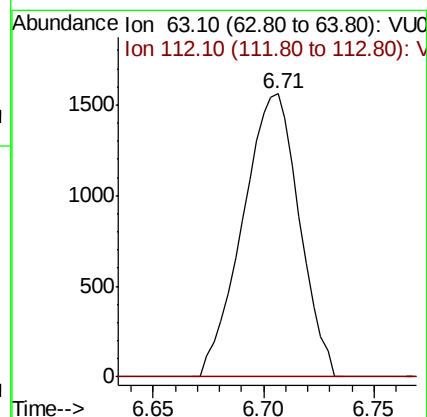
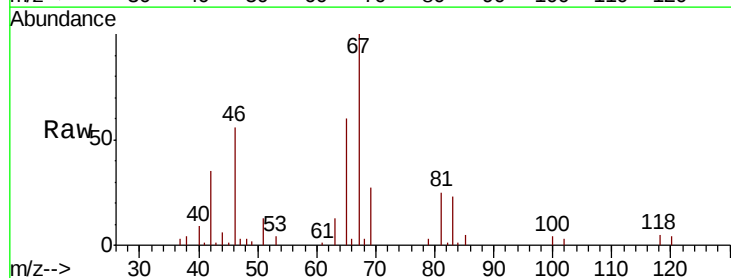
Instrument :  
MSVOA\_U  
ClientSampleId :

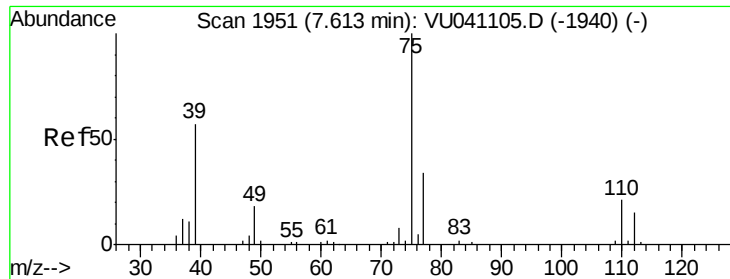
Tot Ion: 83 Resp: 5559  
Ion Ratio Lower Upper  
83 100  
55 0.0 72.0 108.0#  
98 0.0 36.6 55.0#



#37  
1,2-Dichloropropane  
Concen: 0.634 ug/L  
RT: 6.71 min Scan# 1669  
Delta R.T. -0.09 min  
Lab File: VU041112.D  
Acq: 05 Nov 2020 18:12

Tgt Ion: 63 Resp: 2776  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.6 5.4#

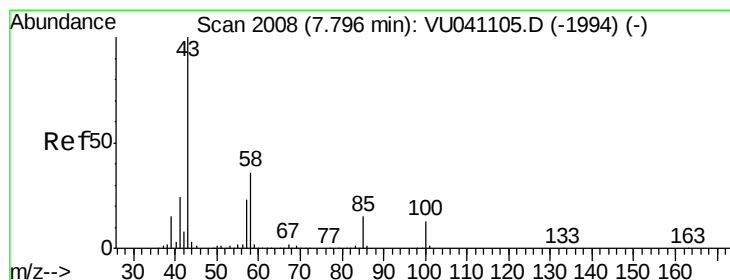
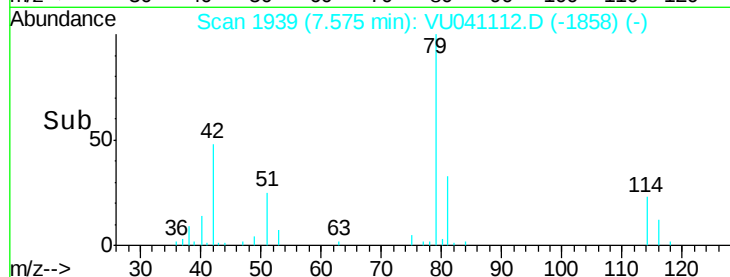
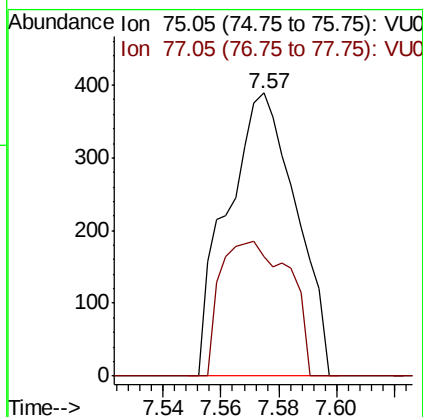
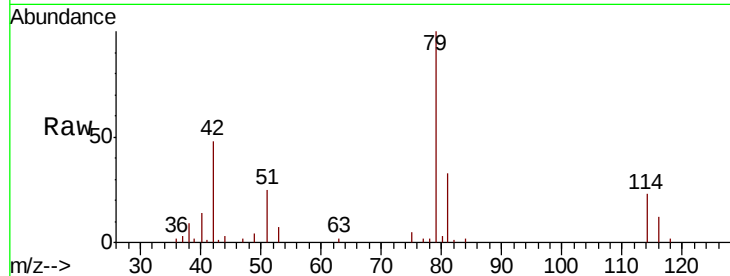




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.106 ug/L  
 RT: 7.57 min Scan# 1939  
 Delta R.T. -0.04 min  
 Lab File: VU041112.D  
 Acq: 05 Nov 2020 18:12

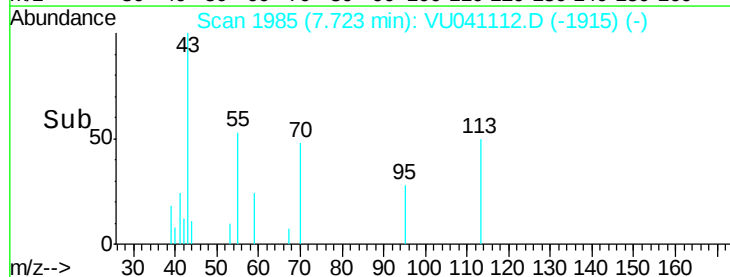
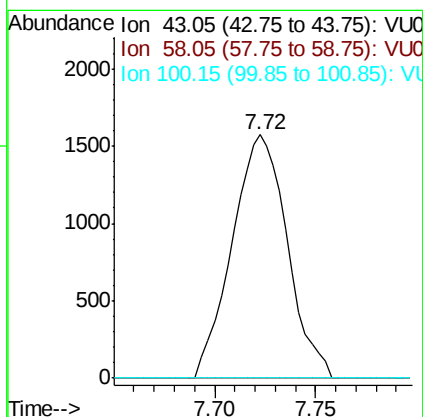
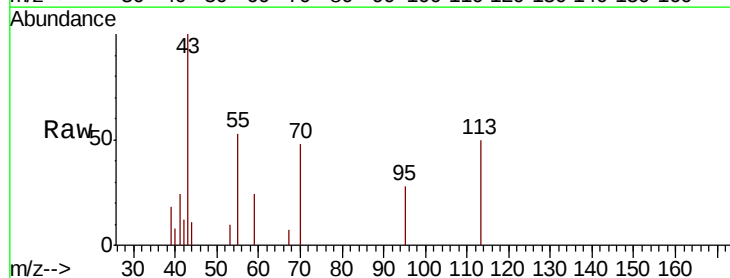
Instrument :  
 MSVOA\_U  
 ClientSampleId :

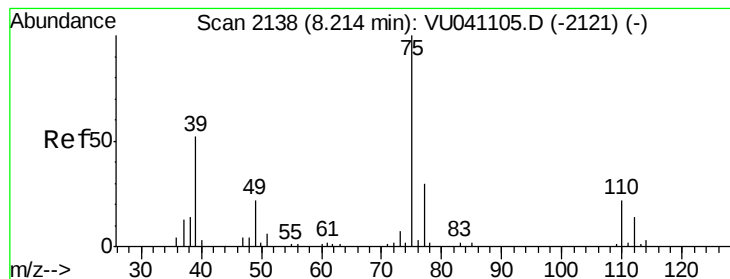
Tot Ion: 75 Resp: 641  
 Ion Ratio Lower Upper  
 75 100  
 77 42.4 22.7 42.3#



#40  
 4-Methyl-2-pentanone  
 Concen: 0.859 ug/L  
 RT: 7.72 min Scan# 1985  
 Delta R.T. -0.07 min  
 Lab File: VU041112.D  
 Acq: 05 Nov 2020 18:12

Tgt Ion: 43 Resp: 2998  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 29.8 44.6#  
 100 0.0 10.5 15.7#





#44

trans-1,3-Dichloropropene

Concen: 0.070 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041112.D

Acq: 05 Nov 2020 18:12

Instrument :

MSVOA\_U

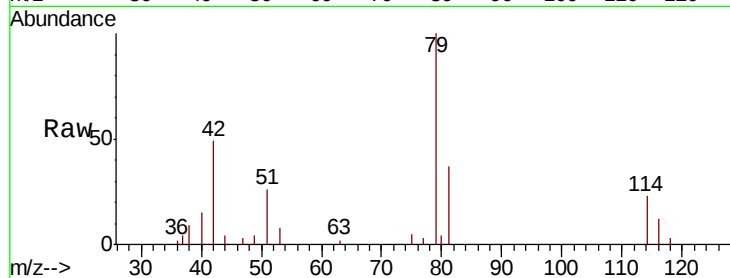
ClientSampleId :

Tot Ion: 75 Resp: 397

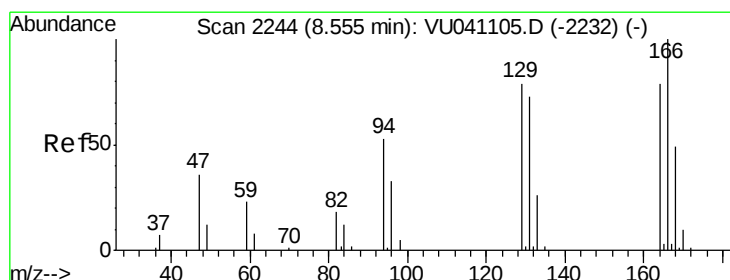
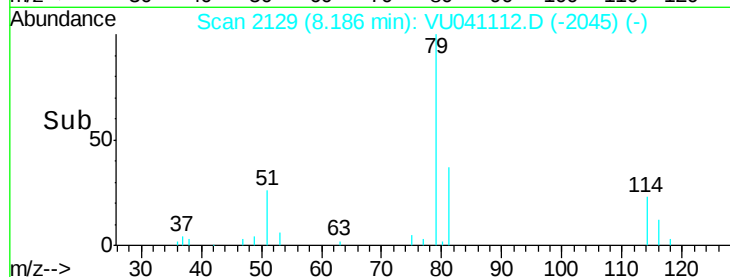
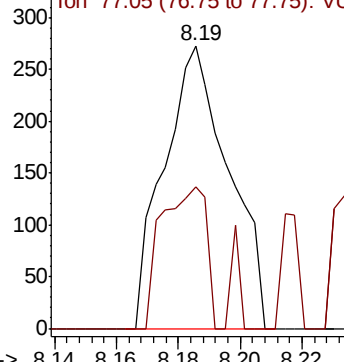
Ion Ratio Lower Upper

75 100

77 49.8 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041112.D (-2045) (-)



#47

Tetrachloroethene

Concen: 0.188 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041112.D

Acq: 05 Nov 2020 18:12

Tgt Ion: 164 Resp: 570

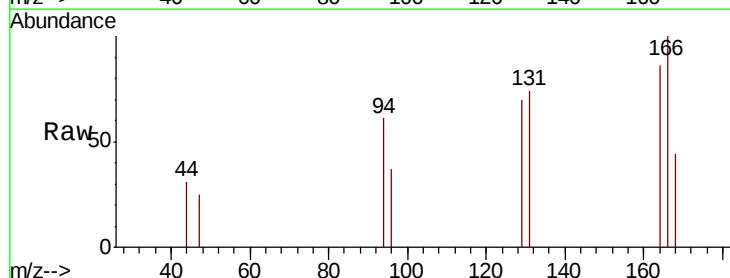
Ion Ratio Lower Upper

164 100

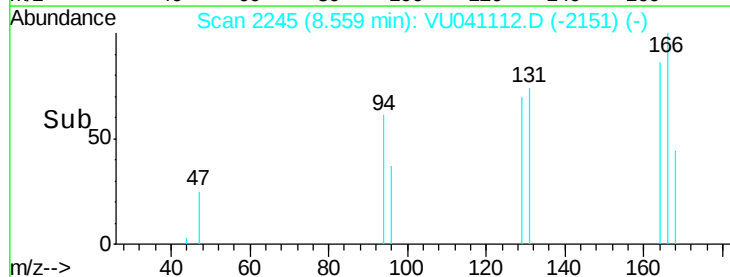
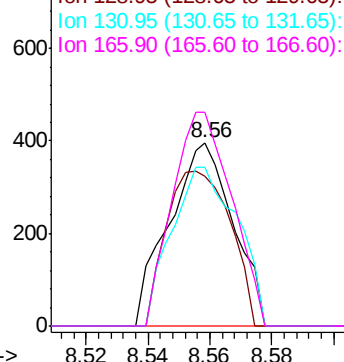
129 81.6 70.3 130.7

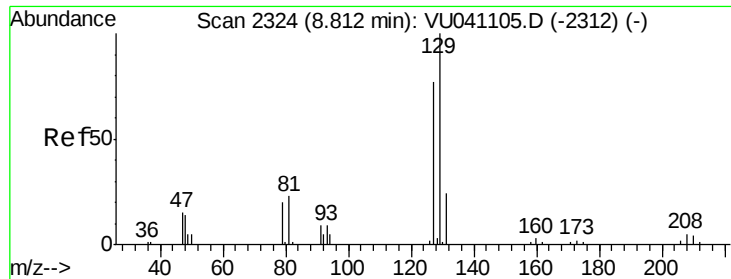
131 86.6 70.8 131.4

166 116.4 92.0 170.8



Abundance Ion 163.90 (163.60 to 164.60): VU041112.D (-2151) (-)





#49

Dibromochloromethane

Concen: 0.127 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041112.D

Acq: 05 Nov 2020 18:12

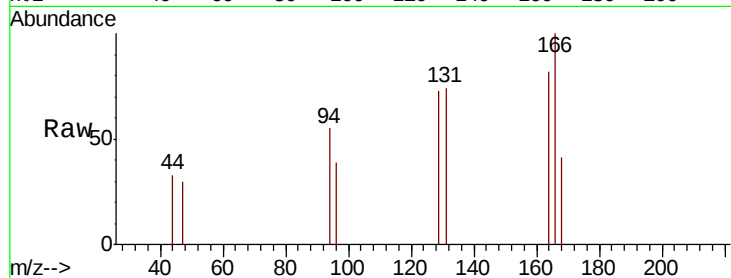
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:129 Resp: 482

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

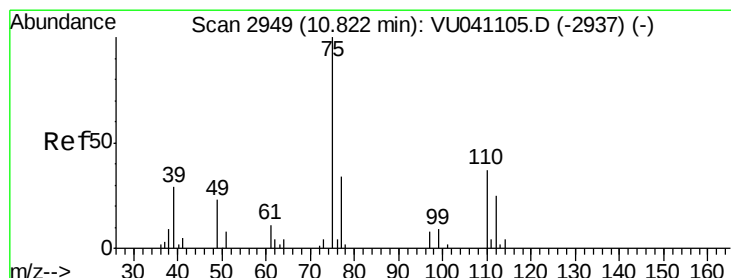
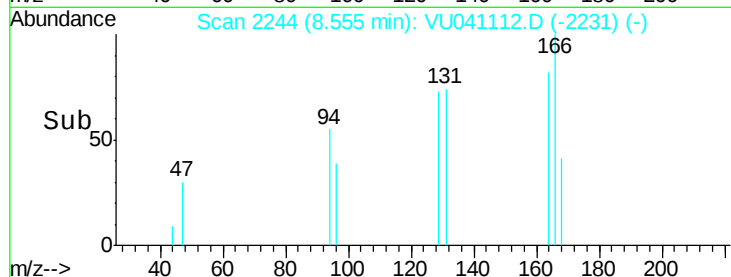
300

200

100

0

Time--> 8.52 8.54 8.56 8.58



#59

1,2,3-Trichloropropane

Concen: 0.953 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041112.D

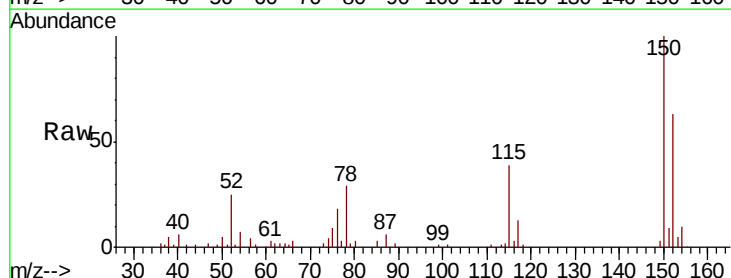
Acq: 05 Nov 2020 18:12

Tgt Ion: 75 Resp: 3110

Ion Ratio Lower Upper

75 100

77 35.6 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

2000

1500

1000

500

0

Time--> 11.75 11.80 11.85

