

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080820\  
 Data File : VU039817.D  
 Acq On : 08 Aug 2020 17:41  
 Operator : SY/MD  
 Sample : L3591-10  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 10 01:21:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR080320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Aug 10 01:16:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 75520    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 74528    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 34983    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

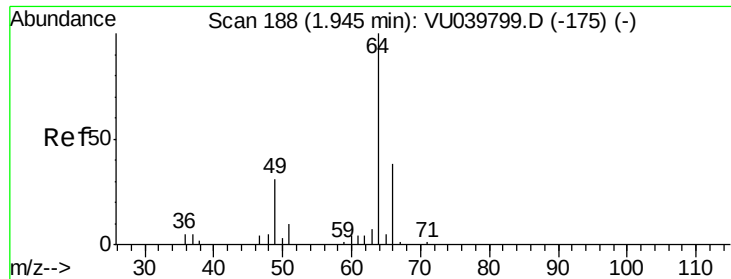
|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 21883    | 5.37     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 107.40%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 19930    | 4.52     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.40%   |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 53893    | 6.56     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 131.20%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 73607    | 41.04    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 82.08%   |
| 24) Chloroform-d               | 5.08   | 84    | 43170    | 4.24     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.80%   |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 26232    | 4.32     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.40%   |
| 32) Benzene-d6                 | 5.74   | 84    | 87547    | 4.94     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.80%   |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 28269    | 4.65     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.00%   |
| 41) Toluene-d8                 | 7.91   | 98    | 74166    | 4.71     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.20%   |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 9299     | 3.99     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 79.80%   |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 52506    | 41.68    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 83.36%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 22642    | 3.84     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 76.80%   |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 31219    | 5.21     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.20%  |

## Target Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 8) Chloroethane             | 2.13  | 64   | 374      | 0.083 | ug/L   | 94     |
| 9) Trichlorofluoromethane   | 2.15  | 101  | 13526    | 1.416 | ug/L   | 100    |
| 12) 1,1-Dichloroethene      | 2.59  | 96   | 35355    | 7.848 | ug/L   | 91     |
| 17) Methyl tert-butyl Ether | 3.38  | 73   | 1884     | 0.157 | ug/L # | 83     |
| 19) 1,1-Dichloroethane      | 3.89  | 63   | 1102     | 0.119 | ug/L # | 76     |
| 25) Chloroform              | 5.10  | 83   | 4144     | 0.416 | ug/L   | 92     |
| 35) Methylcyclohexane       | 6.70  | 83   | 6729     | 0.799 | ug/L # | 19     |
| 37) 1,2-Dichloropropane     | 6.70  | 63   | 3370     | 0.625 | ug/L # | 86     |
| 38) Bromodichloromethane    | 7.11  | 83   | 483      | 0.068 | ug/L # | 84     |
| 39) cis-1,3-Dichloropropene | 7.57  | 75   | 732      | 0.100 | ug/L # | 61     |
| 59) 1,2,3-Trichloropropane  | 11.81 | 75   | 4849     | 1.246 | ug/L # | 87     |

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

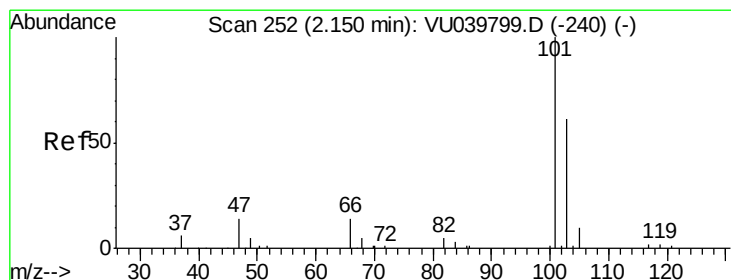
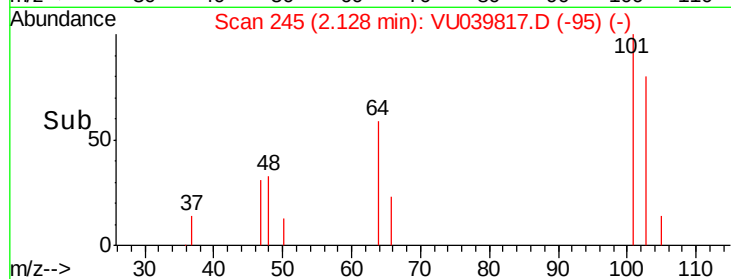
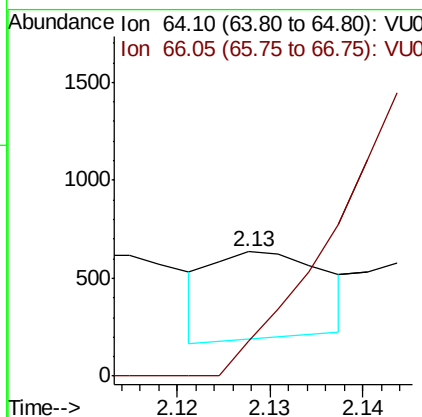
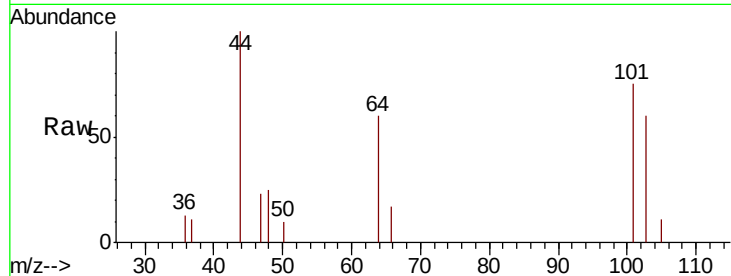




#8  
Chloroethane  
Concen: 0.083 ug/L  
RT: 2.13 min Scan# 245  
Delta R.T. 0.18 min  
Lab File: VU039817.D  
Acq: 08 Aug 2020 17:41

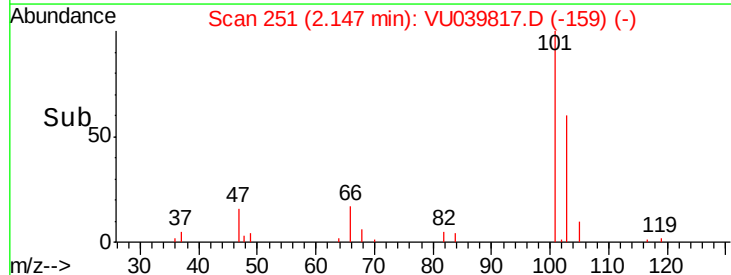
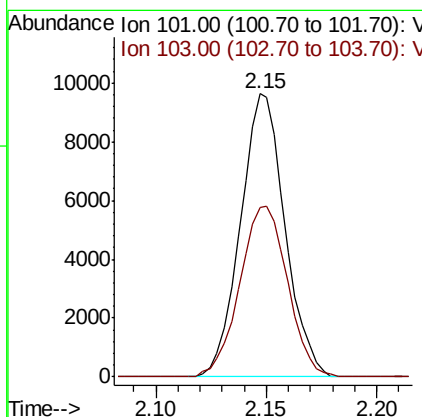
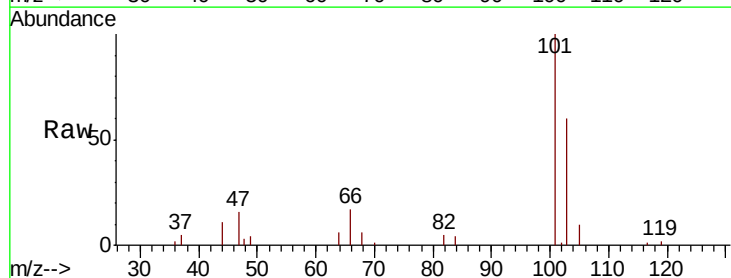
Instrument :  
MSVOA\_U  
ClientSampleId :

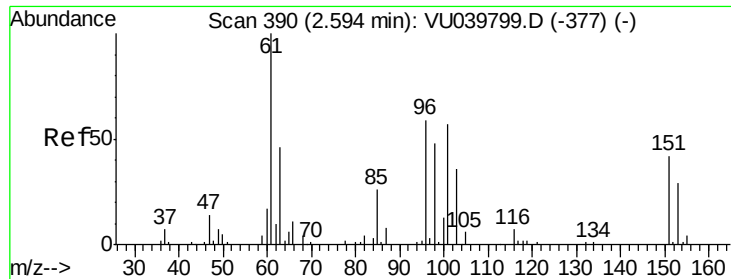
Tot Ion: 64 Resp: 374  
Ion Ratio Lower Upper  
64 100  
66 28.4 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 1.416 ug/L  
RT: 2.15 min Scan# 251  
Delta R.T. -0.00 min  
Lab File: VU039817.D  
Acq: 08 Aug 2020 17:41

Tgt Ion:101 Resp: 13526  
Ion Ratio Lower Upper  
101 100  
103 64.6 51.4 77.2

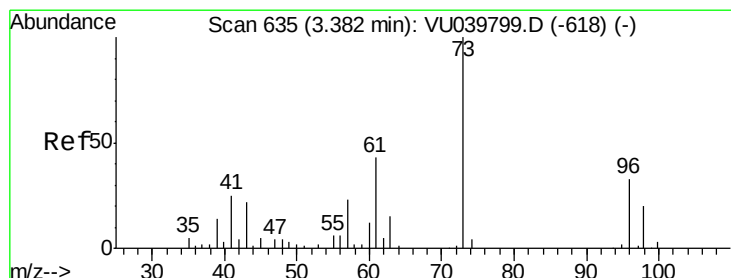
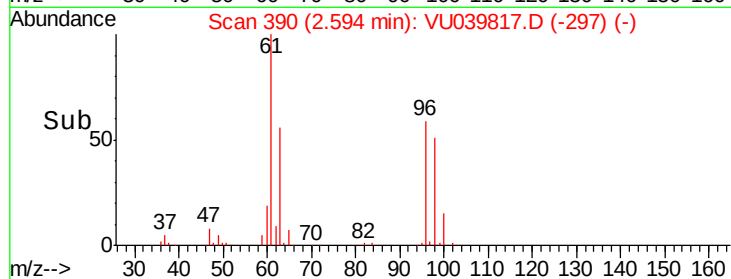
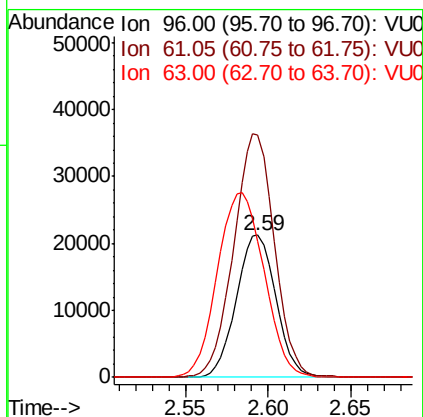
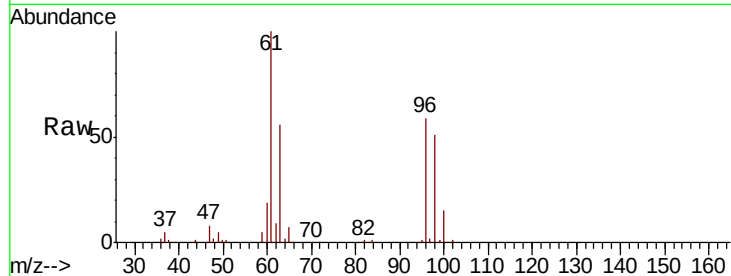




#12  
 1,1-Dichloroethene  
 Concen: 7.848 ug/L  
 RT: 2.59 min Scan# 390  
 Delta R.T. -0.00 min  
 Lab File: VU039817.D  
 Acq: 08 Aug 2020 17:41

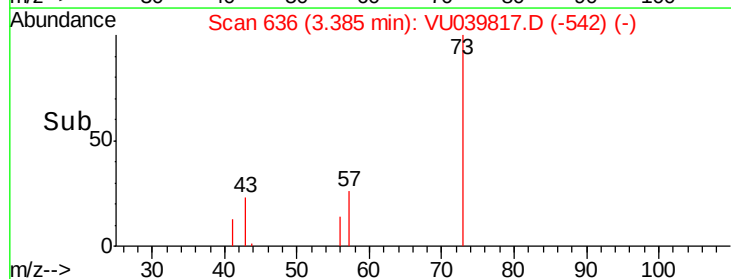
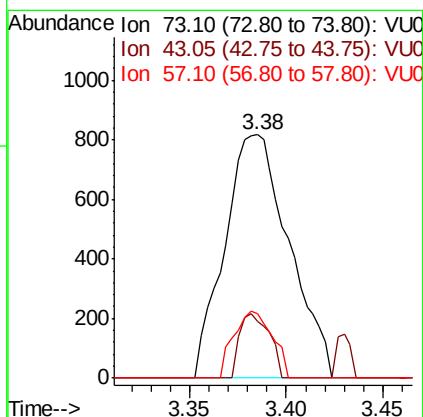
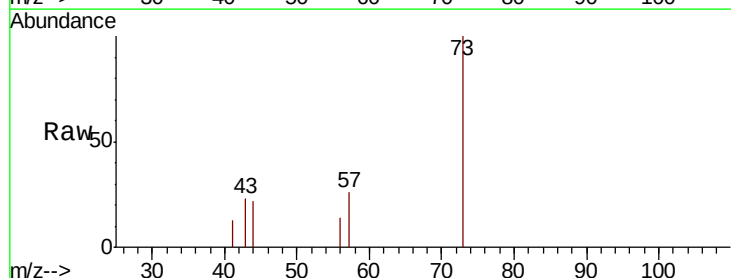
Instrument :  
 MSVOA\_U  
 ClientSampled :

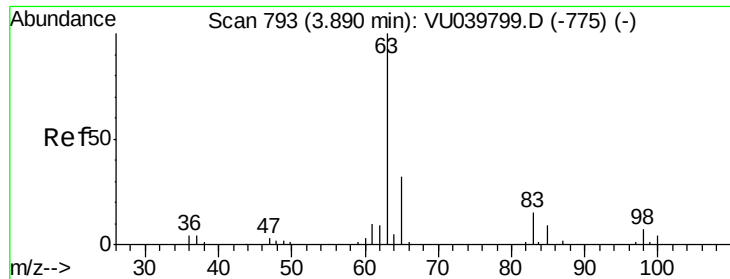
| Tot Ion | 96    | Resp  | 35355 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 170.4 | 121.7 | 225.9 |
| 63      | 95.6  | 82.1  | 152.5 |



#17  
 Methyl tert-butyl Ether  
 Concen: 0.157 ug/L  
 RT: 3.38 min Scan# 636  
 Delta R.T. 0.00 min  
 Lab File: VU039817.D  
 Acq: 08 Aug 2020 17:41

| Tgt Ion | 73    | Resp  | 1884  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 73      | 100   |       |       |
| 43      | 12.2  | 18.2  | 27.4# |
| 57      | 16.4  | 17.8  | 26.8# |

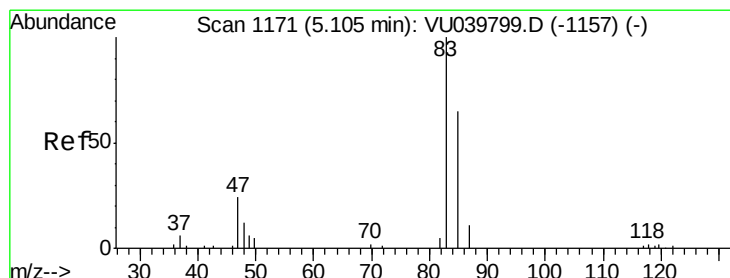
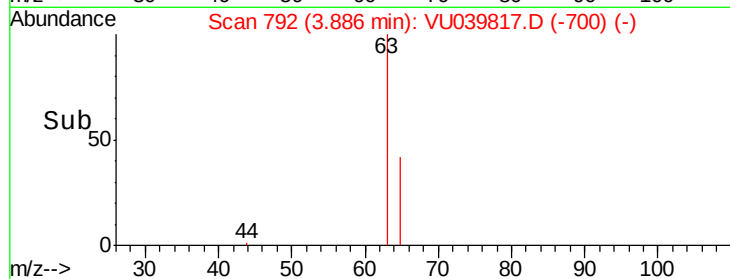
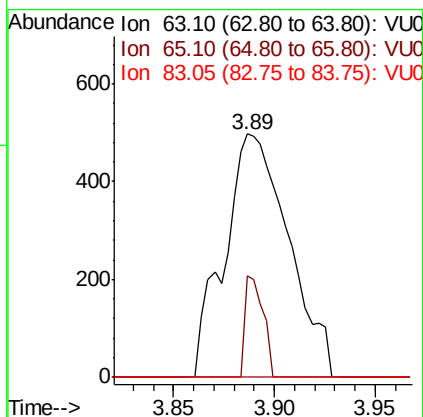
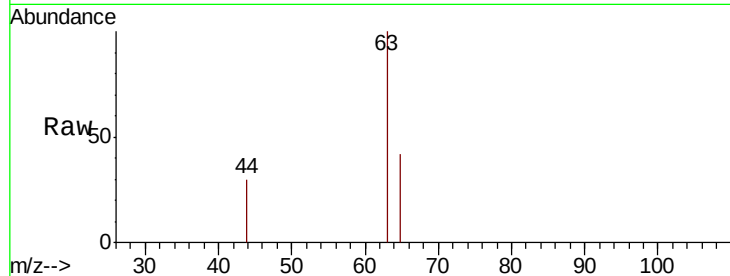




#19  
 1,1-Dichloroethane  
 Concen: 0.119 ug/L  
 RT: 3.89 min Scan# 792  
 Delta R.T. -0.00 min  
 Lab File: VU039817.D  
 Acq: 08 Aug 2020 17:41

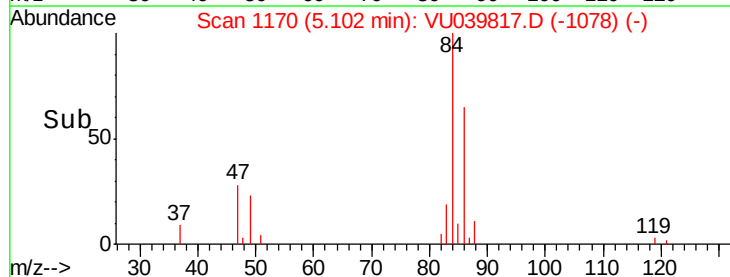
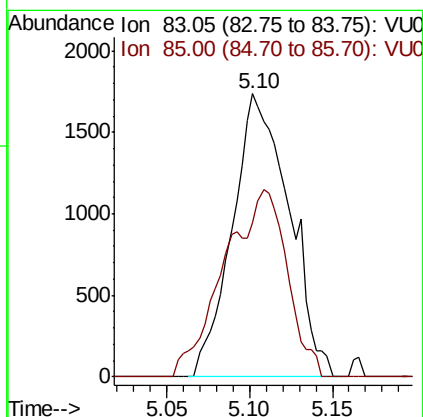
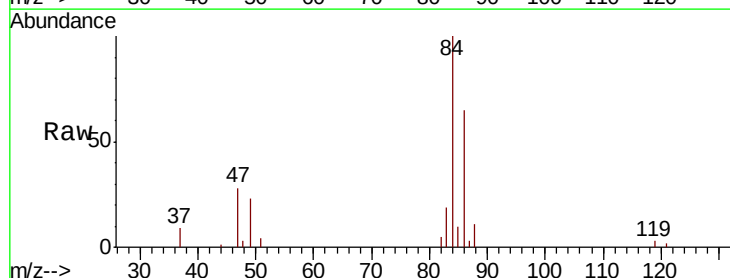
Instrument :  
 MSVOA\_U  
 ClientSampleId :

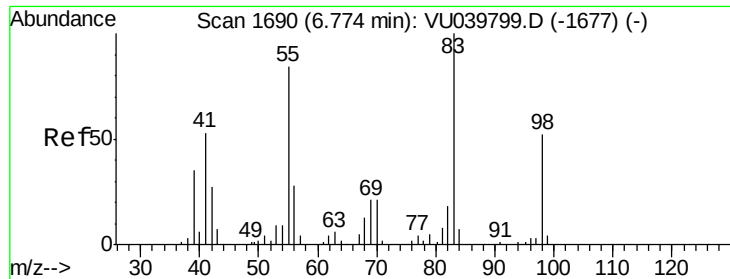
Tot Ion: 63 Resp: 1102  
 Ion Ratio Lower Upper  
 63 100  
 65 41.6 22.0 41.0#  
 83 0.0 10.9 20.2#



#25  
 Chloroform  
 Concen: 0.416 ug/L  
 RT: 5.10 min Scan# 1170  
 Delta R.T. -0.00 min  
 Lab File: VU039817.D  
 Acq: 08 Aug 2020 17:41

Tgt Ion: 83 Resp: 4144  
 Ion Ratio Lower Upper  
 83 100  
 85 54.3 42.1 78.3

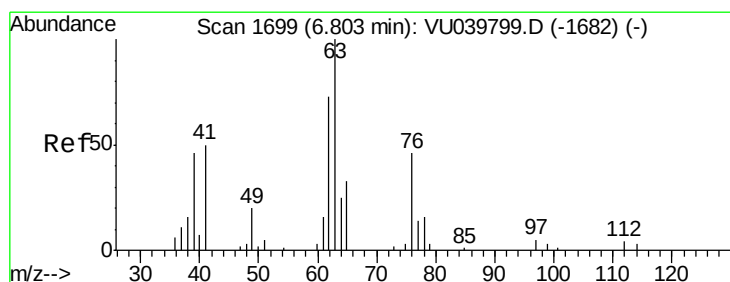
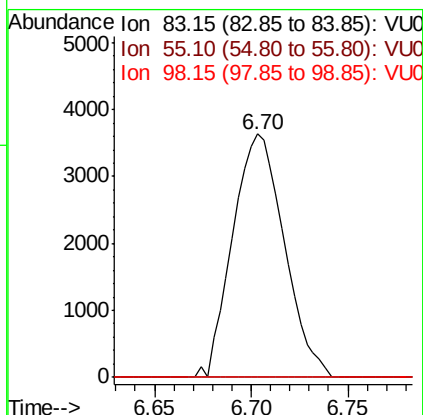
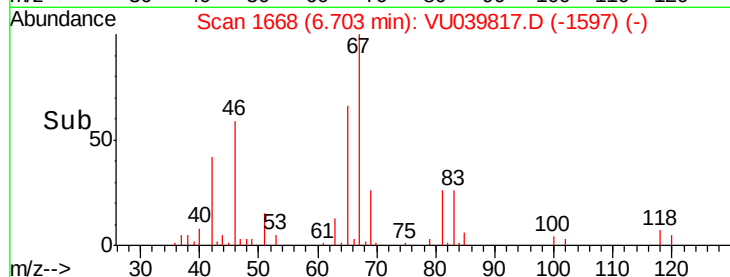
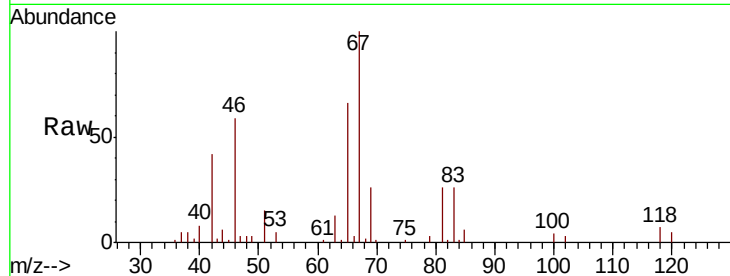




#35  
Methylcyclohexane  
Concen: 0.799 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.07 min  
Lab File: VU039817.D  
Acq: 08 Aug 2020 17:41

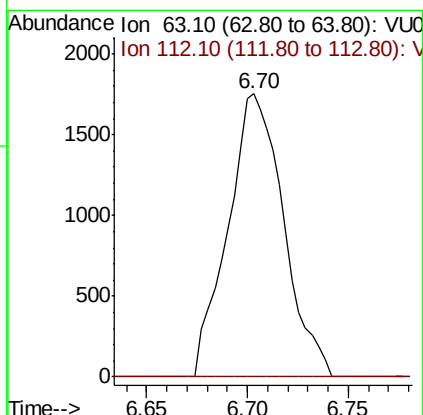
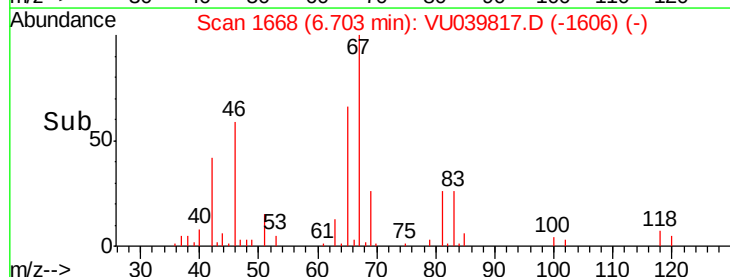
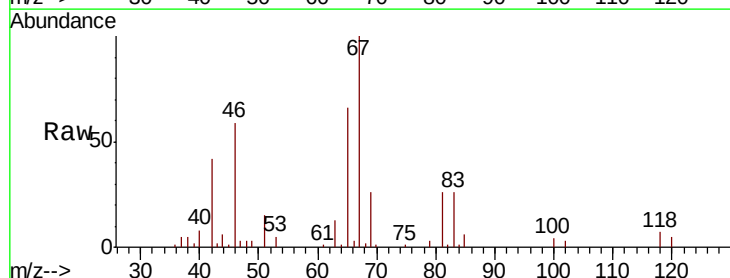
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MSVOA\_U  
ClientSampleId :

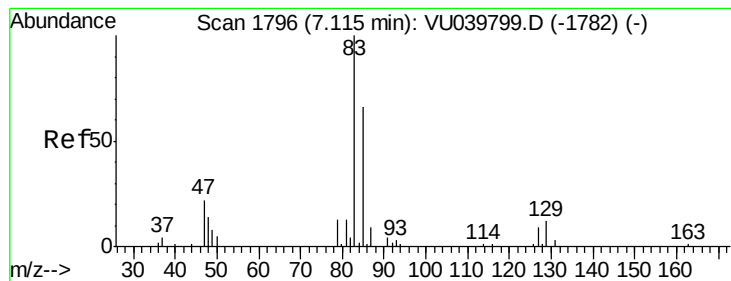
Tot Ion: 83 Resp: 6729  
Ion Ratio Lower Upper  
83 100  
55 0.0 59.4 89.0#  
98 1.1 39.0 58.4#



#37  
1,2-Dichloropropane  
Concen: 0.625 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.10 min  
Lab File: VU039817.D  
Acq: 08 Aug 2020 17:41

Tgt Ion: 63 Resp: 3370  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.8 5.6#





#38

Bromodichloromethane

Concen: 0.068 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VU039817.D

Acq: 08 Aug 2020 17:41

Instrument :

MSVOA\_U

ClientSampleId :

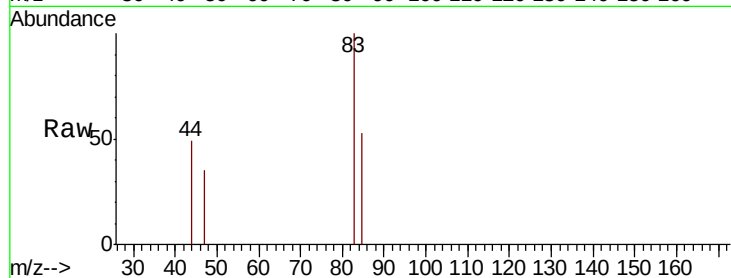
Tot Ion: 83 Resp: 483

Ion Ratio Lower Upper

83 100

85 52.9 45.3 84.1

127 0.0 7.5 11.3#

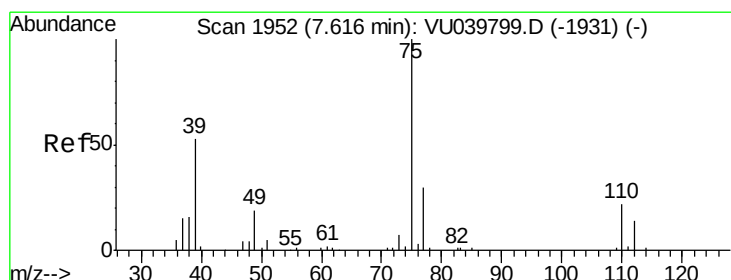
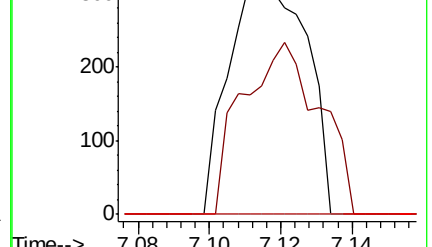
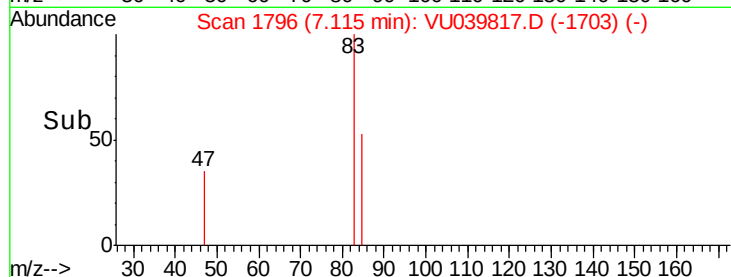


Abundance Ion 82.95 (82.65 to 83.65): VU039817.D (-1782) (-)

Ion 85.00 (84.70 to 85.70): VU039817.D (-1782) (-)

Ion 126.90 (126.60 to 127.60): VU039817.D (-1782) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.100 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU039817.D

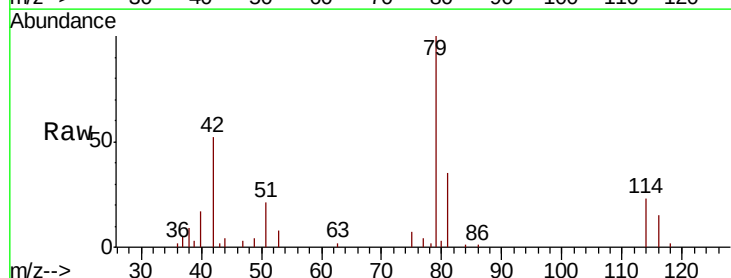
Acq: 08 Aug 2020 17:41

Tgt Ion: 75 Resp: 732

Ion Ratio Lower Upper

75 100

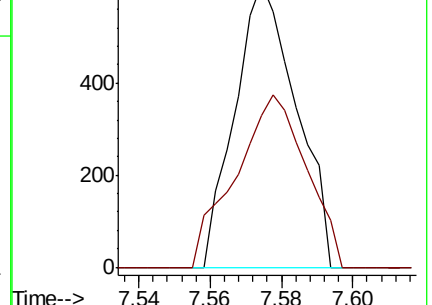
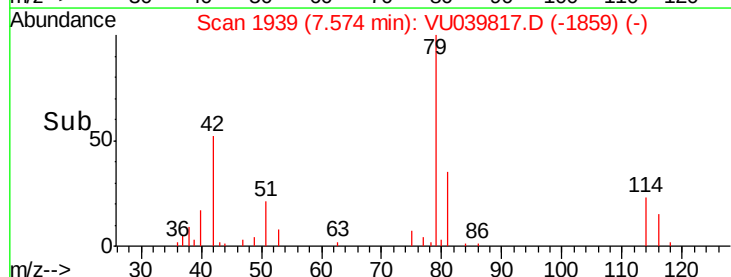
77 53.6 22.4 41.6#

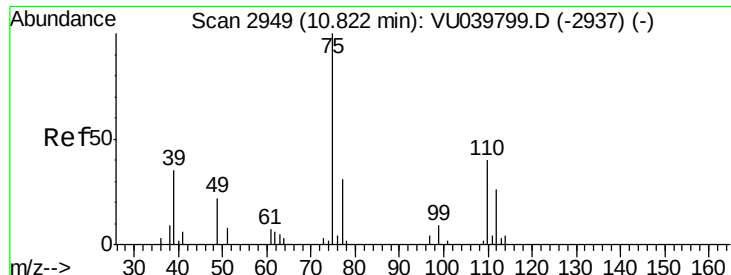


Abundance Ion 75.05 (74.75 to 75.75): VU039817.D (-1859) (-)

Ion 77.05 (76.75 to 77.75): VU039817.D (-1859) (-)

Time-->





#59

1,2,3-Trichloropropane

Concen: 1.246 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU039817.D

Acq: 08 Aug 2020 17:41

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 4849

Ion Ratio Lower Upper

75 100

77 37.9 24.6 37.0#

