

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U051920\  
 Data File : VU038234.D  
 Acq On : 19 May 2020 14:59  
 Operator : JC/MD  
 Sample : L2657-08DL 10X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: May 20 01:27:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed May 20 01:25:15 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 354119   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 347676   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 168560   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 122350   | 3.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 120716   | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 152643   | 2.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 56.40%# |
| 20) 2-Butanone-d5              | 4.67   | 46    | 509394   | 63.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 127.48% |
| 24) Chloroform-d               | 5.10   | 84    | 228616   | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 145871   | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.60% |
| 32) Benzene-d6                 | 5.76   | 84    | 468333   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 164730   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.00%  |
| 41) Toluene-d8                 | 7.92   | 98    | 399684   | 4.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.40%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 61281    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.00%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 400292   | 62.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 125.86% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 144820   | 5.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 109.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 160492   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.80%  |

## Target Compounds

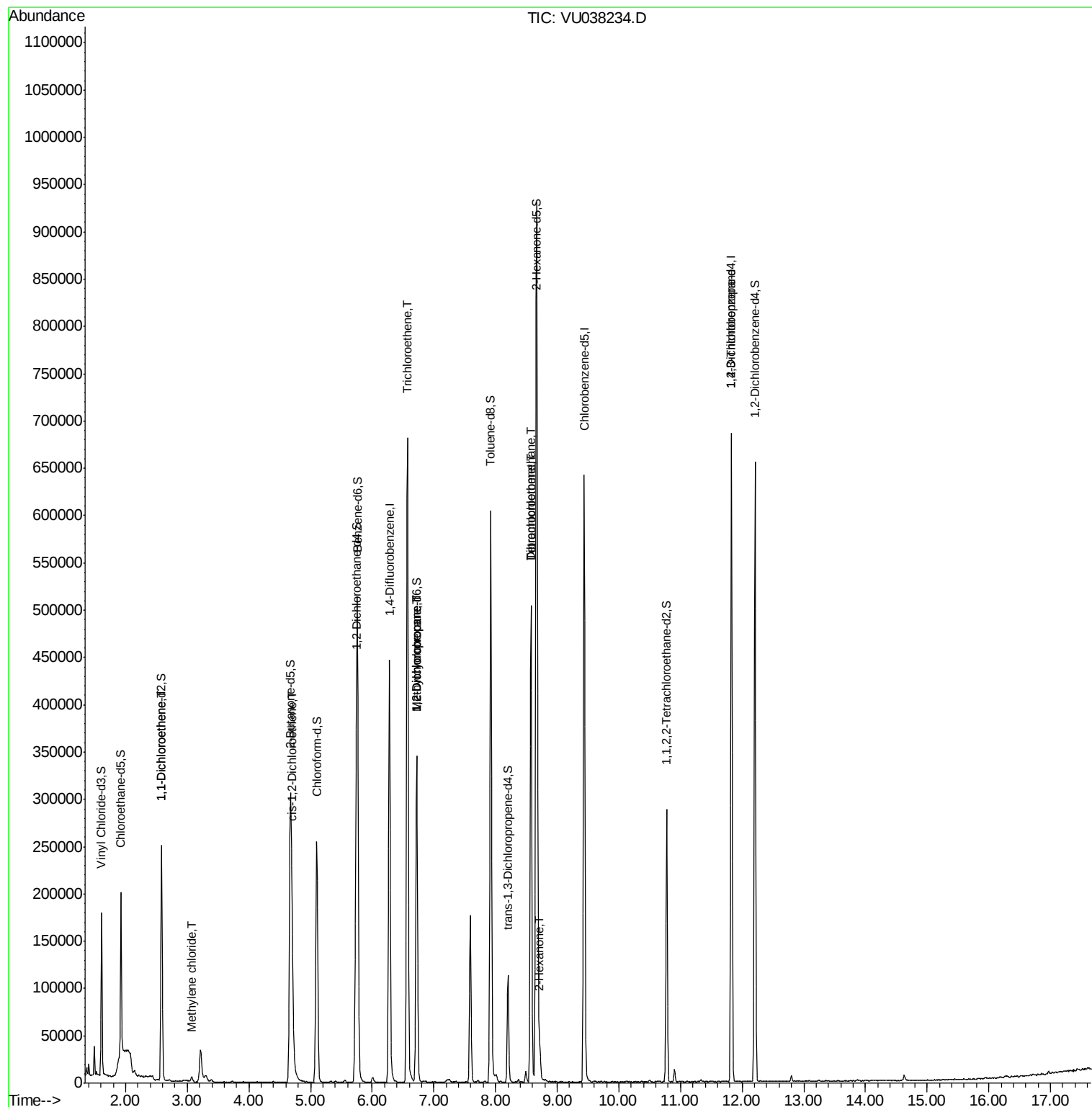
|                            |       |     |        |              | Ovalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 12) 1,1-Dichloroethene     | 2.59  | 96  | 1837   | 0.075 ug/L # | 1      |
| 16) Methylene chloride     | 3.07  | 84  | 2567   | 0.090 ug/L   | 91     |
| 22) cis-1,2-Dichloroethene | 4.70  | 96  | 31895  | 1.103 ug/L   | 95     |
| 34) Trichloroethene        | 6.57  | 95  | 230435 | 8.275 ug/L   | 97     |
| 35) Methylcyclohexane      | 6.72  | 83  | 36771  | 0.815 ug/L # | 16     |
| 37) 1,2-Dichloropropane    | 6.72  | 63  | 16987  | 0.562 ug/L # | 88     |
| 47) Tetrachloroethene      | 8.57  | 164 | 110388 | 5.667 ug/L   | 97     |
| 48) 2-Hexanone             | 8.72  | 43  | 16790  | 1.094 ug/L # | 92     |
| 49) Dibromochloromethane   | 8.57  | 129 | 104352 | 4.788 ug/L # | 10     |
| 59) 1,2,3-Trichloropropane | 11.83 | 75  | 22588  | 1.113 ug/L   | 92     |

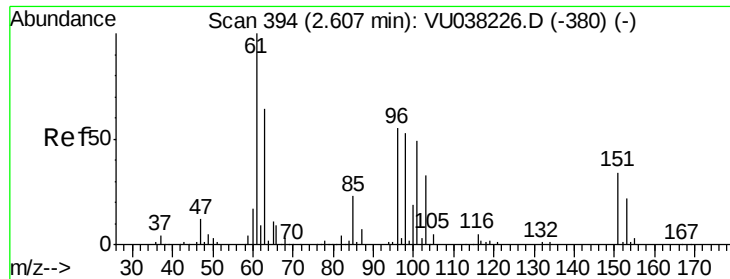
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L2657-08DL 10X  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: May 20 01:27:51 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed May 20 01:25:15 2020  
Response via : Initial Calibration

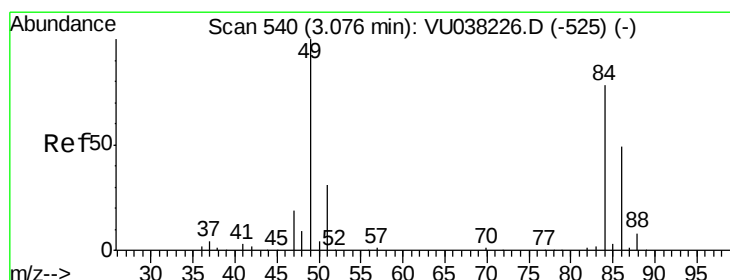
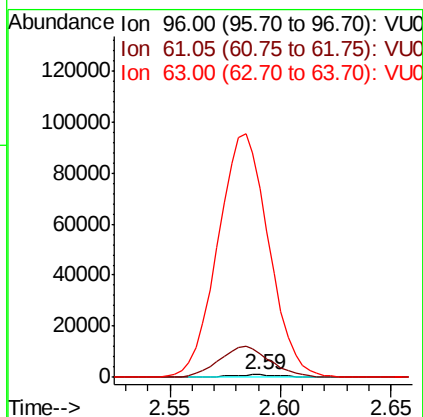
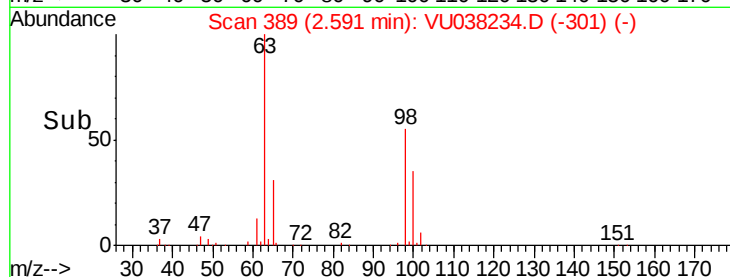
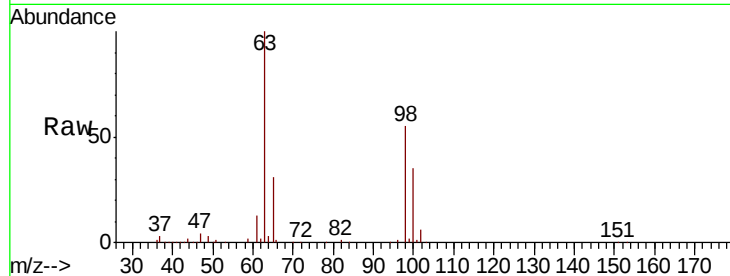




#12  
 1,1-Dichloroethene  
 Concen: 0.075 ug/L  
 RT: 2.59 min Scan# 389  
 Delta R.T. -0.02 min  
 Lab File: VU038234.D  
 Acq: 19 May 2020 14:59

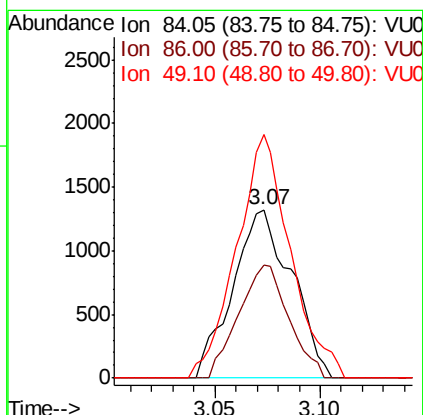
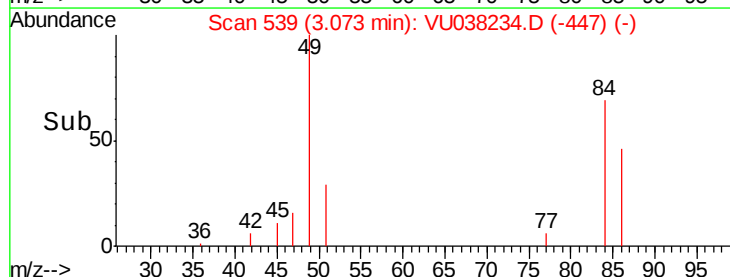
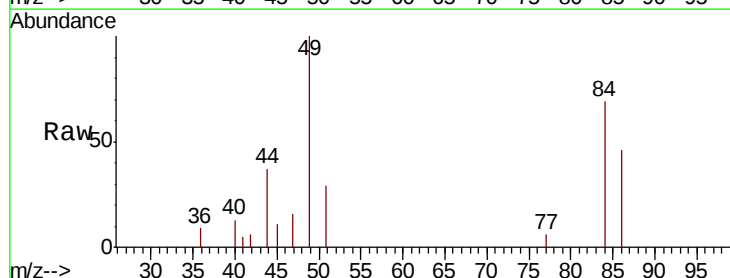
Instrument :  
 MSVOA\_U  
 ClientSampled :

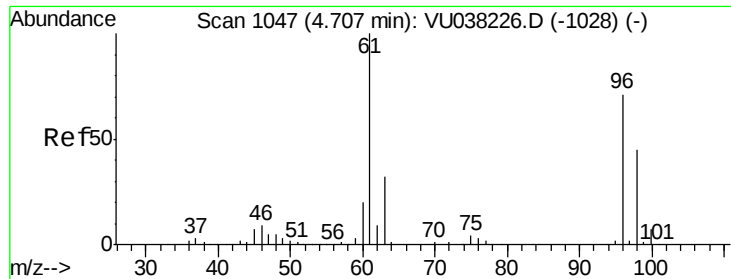
Tot Ion: 96 Resp: 1837  
 Ion Ratio Lower Upper  
 96 100  
 61 923.9 126.2 234.4#  
 63 7318.8 96.9 179.9#



#16  
 Methylene chloride  
 Concen: 0.090 ug/L  
 RT: 3.07 min Scan# 539  
 Delta R.T. -0.00 min  
 Lab File: VU038234.D  
 Acq: 19 May 2020 14:59

Tgt Ion: 84 Resp: 2567  
 Ion Ratio Lower Upper  
 84 100  
 86 66.8 44.9 83.3  
 49 144.5 92.0 170.9

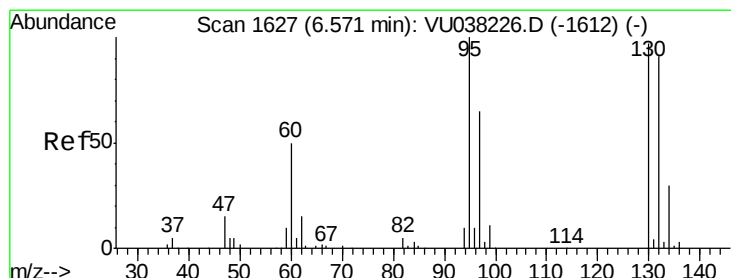
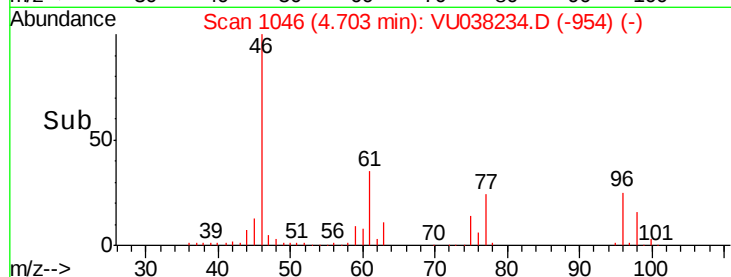
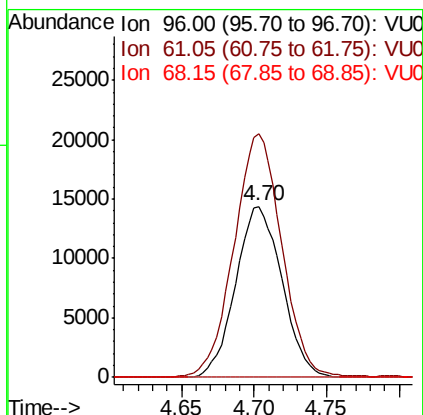
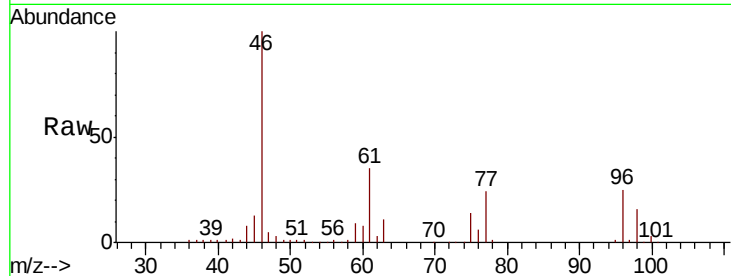




#22  
 cis-1,2-Dichloroethene  
 Concen: 1.103 ug/L  
 RT: 4.70 min Scan# 1046  
 Delta R.T. -0.00 min  
 Lab File: VU038234.D  
 Acq: 19 May 2020 14:59

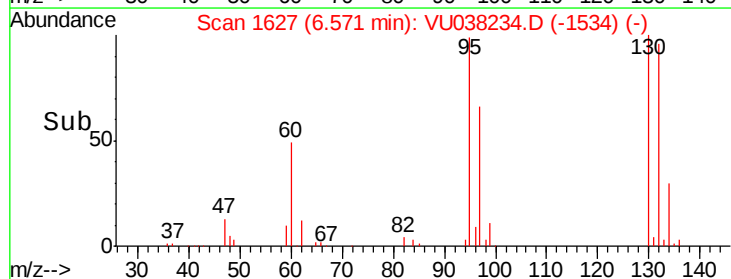
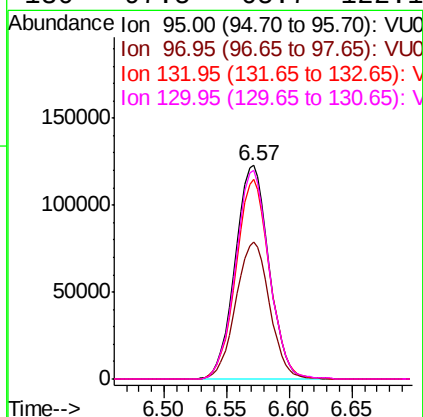
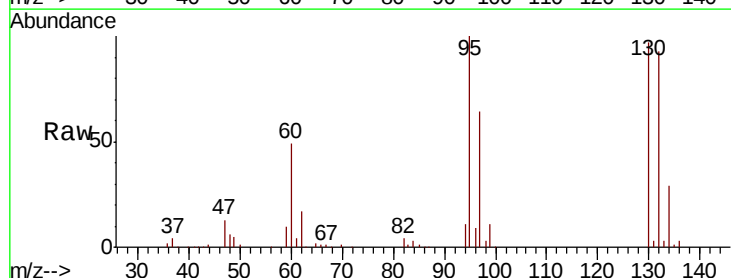
Instrument :  
 MSVOA\_U  
 ClientSampled :

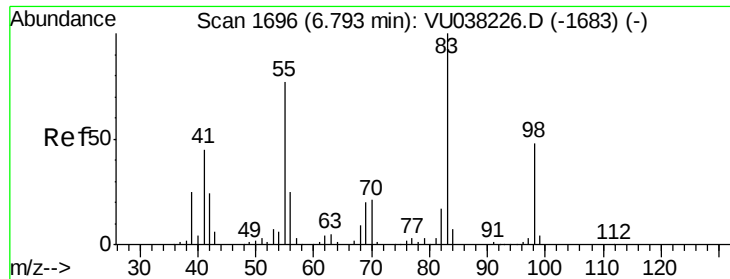
Tot Ion: 96 Resp: 31895  
 Ion Ratio Lower Upper  
 96 100  
 61 142.6 95.3 176.9  
 68 0.0 0.0 0.0



#34  
 Trichloroethene  
 Concen: 8.275 ug/L  
 RT: 6.57 min Scan# 1627  
 Delta R.T. -0.00 min  
 Lab File: VU038234.D  
 Acq: 19 May 2020 14:59

Tgt Ion: 95 Resp: 230435  
 Ion Ratio Lower Upper  
 95 100  
 97 64.0 44.9 83.3  
 132 93.2 63.3 117.5  
 130 97.5 65.7 122.1

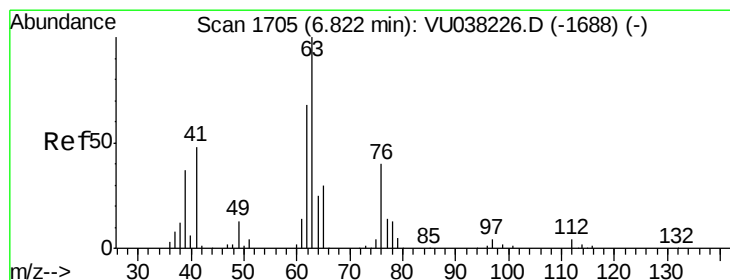
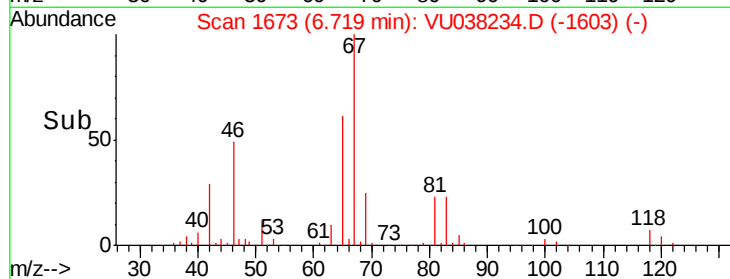
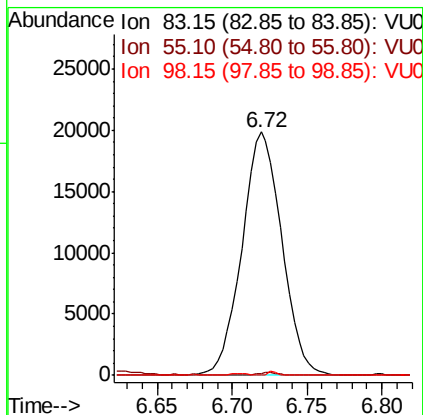
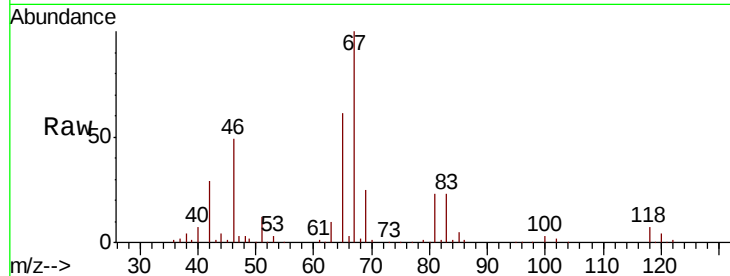




#35  
Methvlcvclohexane  
Concen: 0.815 ug/L  
RT: 6.72 min Scan# 1673  
Delta R.T. -0.07 min  
Lab File: VU038234.D  
Acq: 19 May 2020 14:59

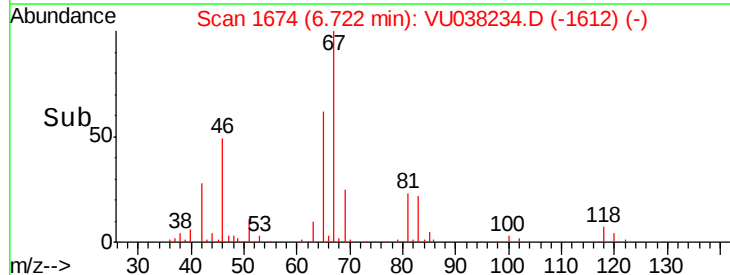
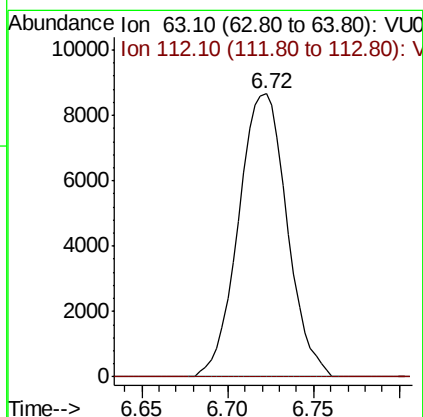
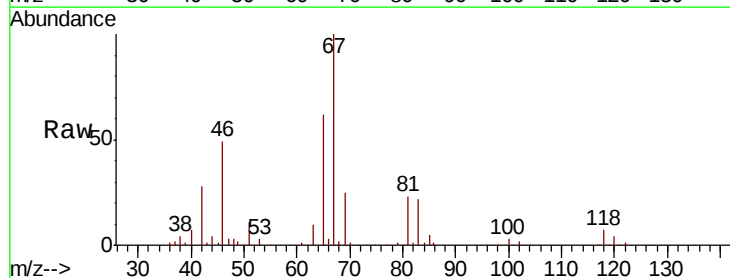
Instrument :  
MSVOA\_U  
ClientSampleId :

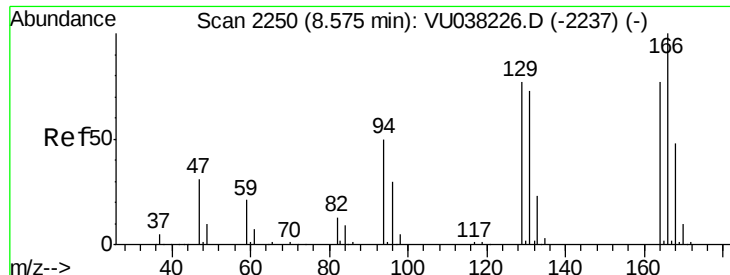
Tot Ion: 83 Resp: 36771  
Ion Ratio Lower Upper  
83 100  
55 0.5 66.7 100.1#  
98 0.0 39.4 59.2#



#37  
1,2-Dichloropropane  
Concen: 0.562 ug/L  
RT: 6.72 min Scan# 1674  
Delta R.T. -0.10 min  
Lab File: VU038234.D  
Acq: 19 May 2020 14:59

Tgt Ion: 63 Resp: 16987  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.1 4.7#





#47

Tetrachloroethene

Concen: 5.667 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU038234.D

Acq: 19 May 2020 14:59

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:164 Resp: 110388

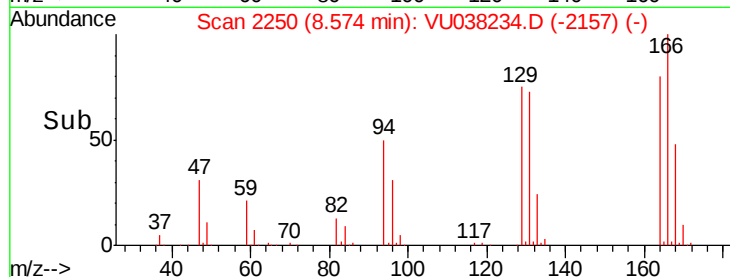
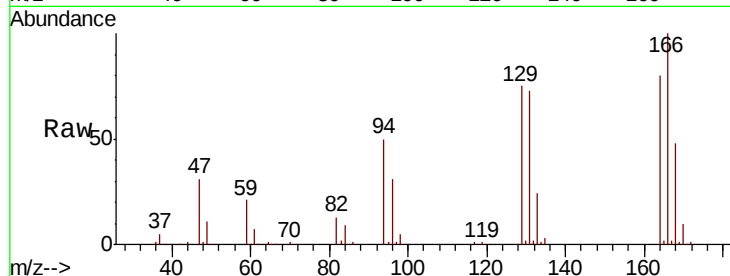
Ion Ratio Lower Upper

164 100

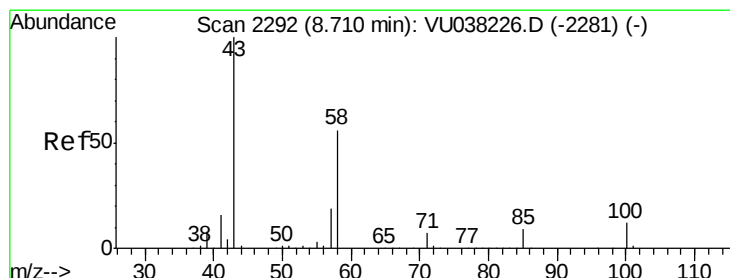
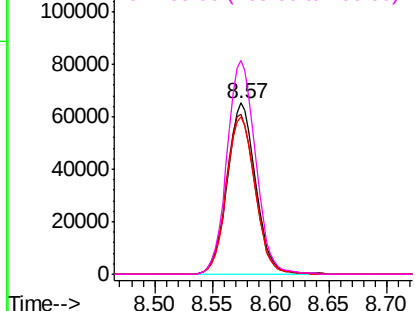
129 93.4 68.8 127.8

131 91.8 66.8 124.2

166 125.0 88.9 165.1



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: 1.094 ug/L

RT: 8.72 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VU038234.D

Acq: 19 May 2020 14:59

Tgt Ion: 43 Resp: 16790

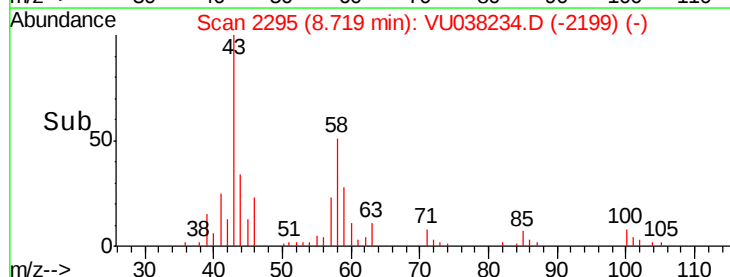
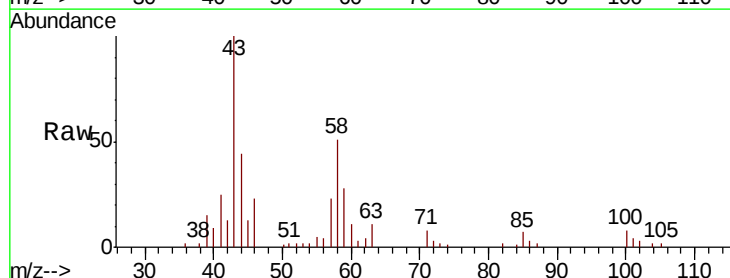
Ion Ratio Lower Upper

43 100

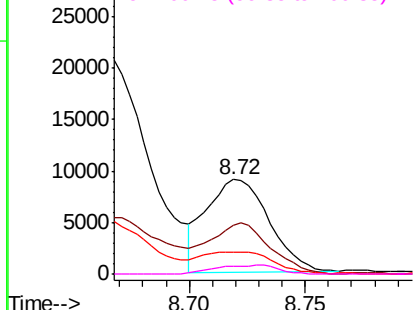
58 53.8 45.2 67.8

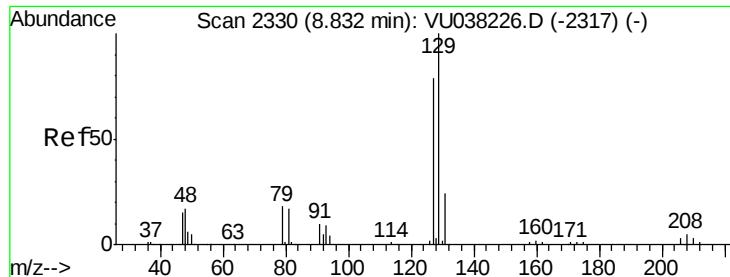
57 29.1 15.5 23.3#

100 9.5 9.5 14.3



Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0

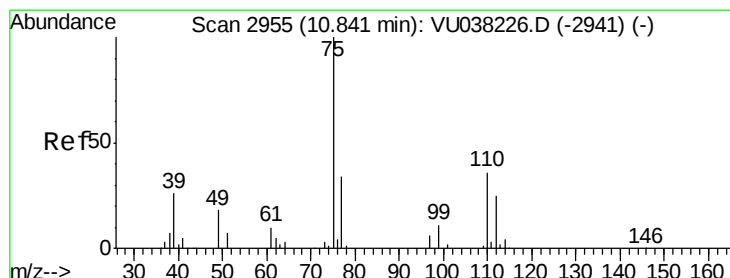
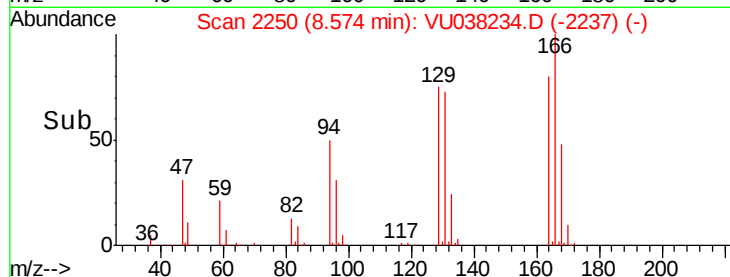
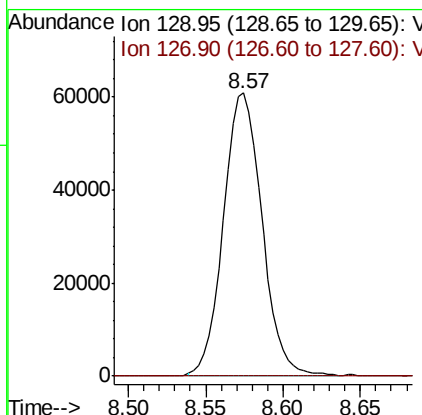
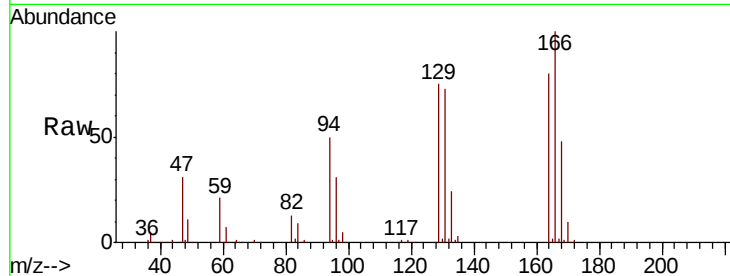




#49  
 Dibromochloromethane  
 Concen: 4.788 ug/L  
 RT: 8.57 min Scan# 2250  
 Delta R.T. -0.26 min  
 Lab File: VU038234.D  
 Acq: 19 May 2020 14:59

Instrument :  
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 ClientSampleId :

Tot Ion:129 Resp: 104352  
 Ion Ratio Lower Upper  
 129 100  
 127 0.2 55.6 103.4#



#59  
 1,2,3-Trichloropropane  
 Concen: 1.113 ug/L  
 RT: 11.83 min Scan# 3261  
 Delta R.T. 0.98 min  
 Lab File: VU038234.D  
 Acq: 19 May 2020 14:59

Tgt Ion: 75 Resp: 22588  
 Ion Ratio Lower Upper  
 75 100  
 77 35.9 25.4 38.0

