

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\  
 Data File : VU040825.D  
 Acq On : 19 Oct 2020 23:51  
 Operator : SY/MD  
 Sample : L4420-10  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AK2

Quant Time: Oct 20 06:04:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 20 05:12:18 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 105476   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 110362   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 42511    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 26567    | 3.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 60.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 29453    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 47433    | 2.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 55.60%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 173195   | 61.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 123.86% |
| 24) Chloroform-d               | 5.08   | 84    | 79333    | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.40% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 49856    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 106.80% |
| 32) Benzene-d6                 | 5.75   | 84    | 131494   | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 49908    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.00% |
| 41) Toluene-d8                 | 7.91   | 98    | 97390    | 3.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 73.00%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 17888    | 4.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.40%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 113212   | 52.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.96% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 47697    | 5.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 107.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 44607    | 5.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 113.20% |

## Target Compounds

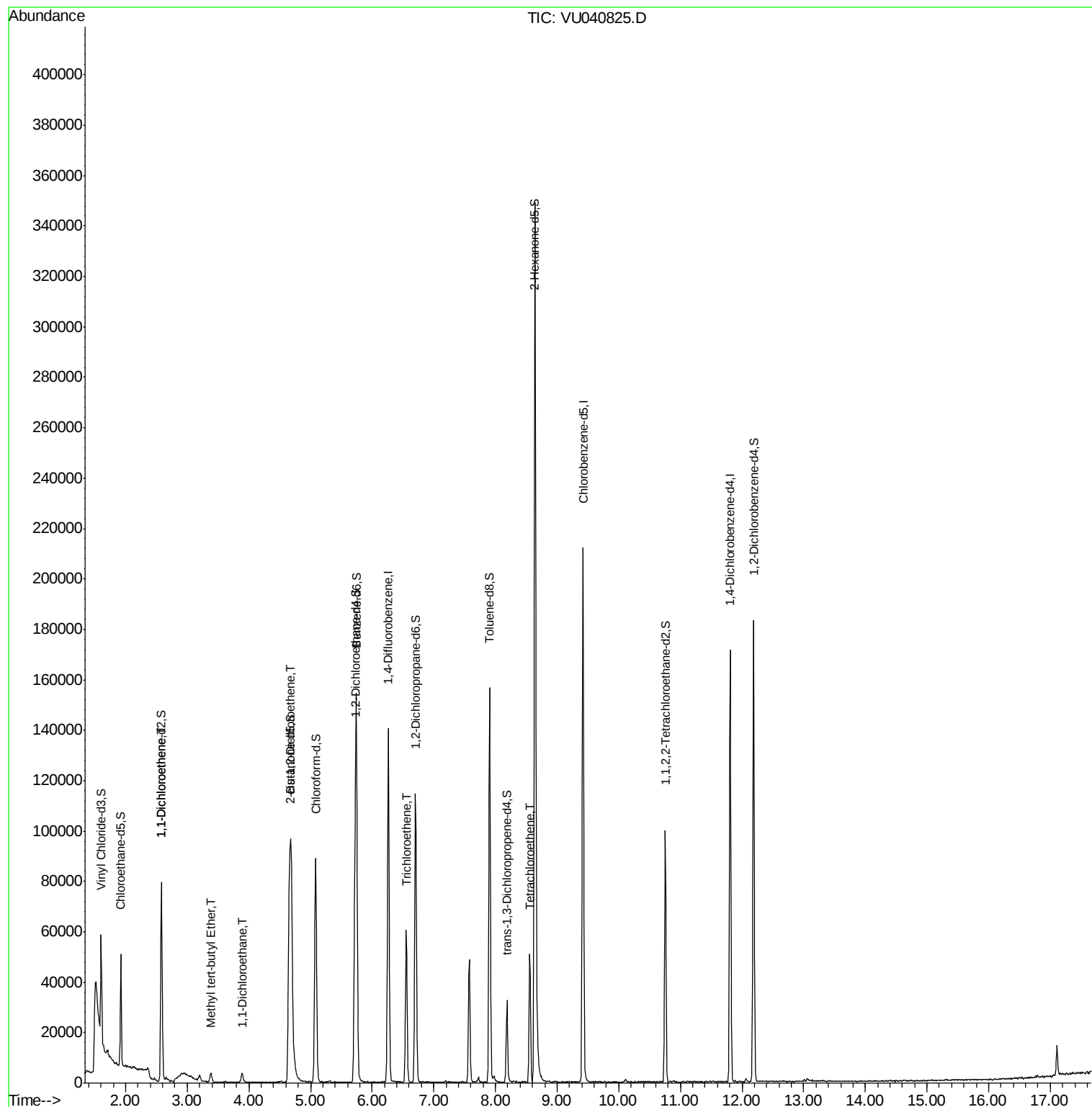
|                             |      |     |       |              | Ovalue |
|-----------------------------|------|-----|-------|--------------|--------|
| 12) 1,1-Dichloroethene      | 2.59 | 96  | 3309  | 0.440 ug/L # | 1      |
| 17) Methyl tert-butyl Ether | 3.38 | 73  | 3686  | 0.173 ug/L # | 87     |
| 19) 1,1-Dichloroethane      | 3.89 | 63  | 4804  | 0.295 ug/L   | 92     |
| 22) cis-1,2-Dichloroethene  | 4.69 | 96  | 24975 | 2.940 ug/L   | 98     |
| 34) Trichloroethene         | 6.55 | 95  | 20350 | 2.214 ug/L   | 95     |
| 47) Tetrachloroethene       | 8.56 | 164 | 10773 | 1.643 ug/L   | 92     |

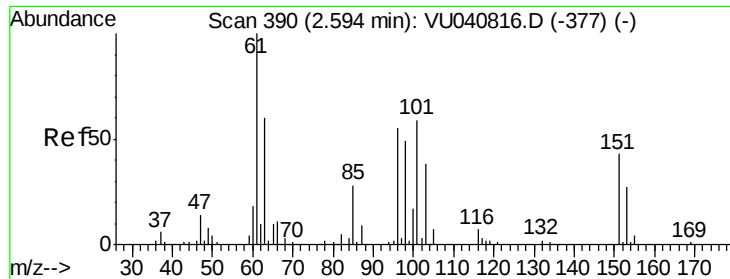
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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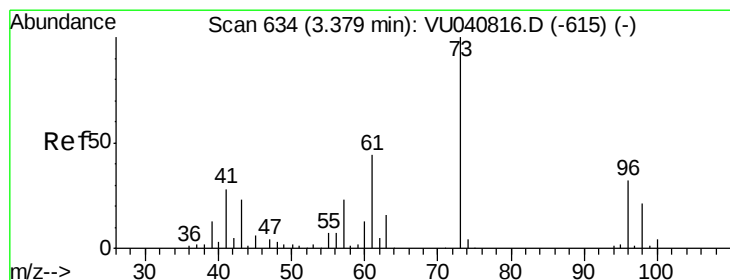
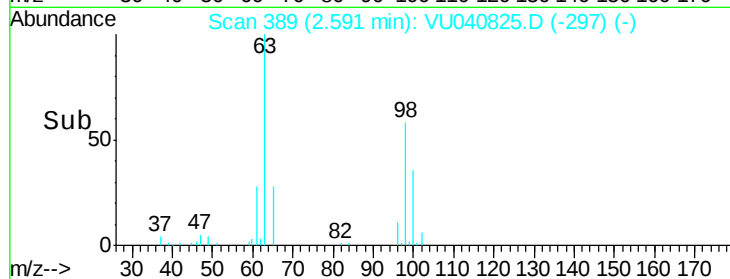
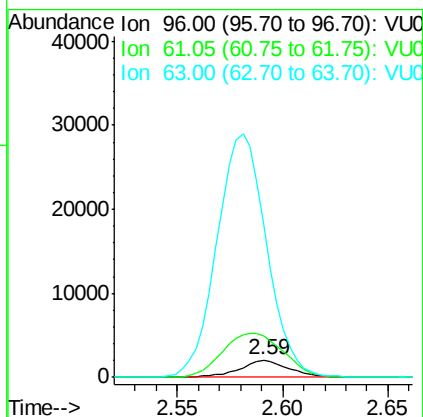
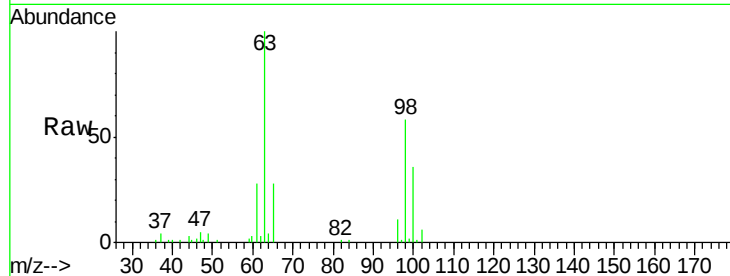




#12  
 1,1-Dichloroethene  
 Concen: 0.440 ug/L  
 RT: 2.59 min Scan# 389  
 Delta R.T. -0.00 min  
 Lab File: VU040825.D  
 Acq: 19 Oct 2020 23:51

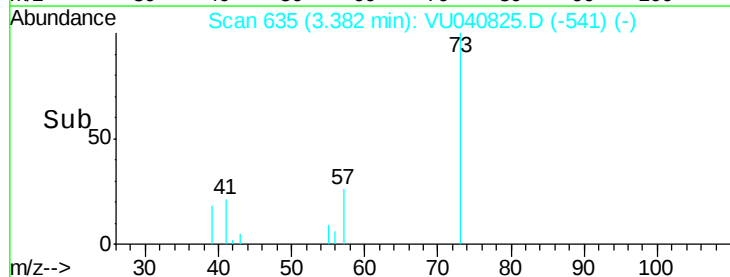
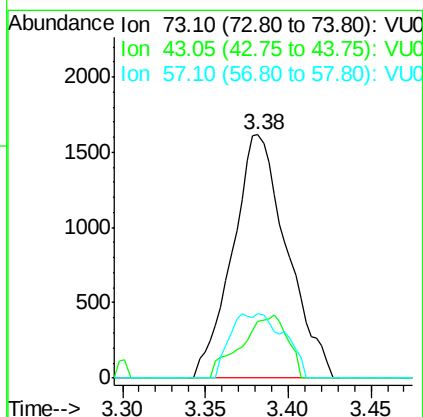
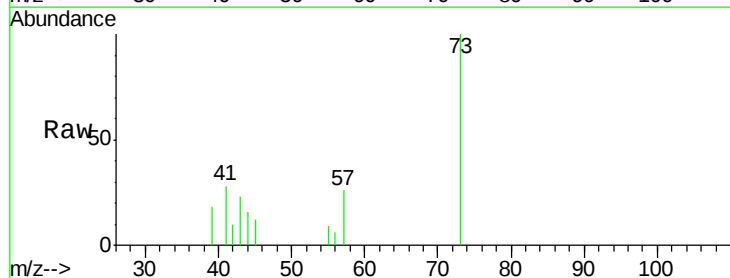
Instrument :  
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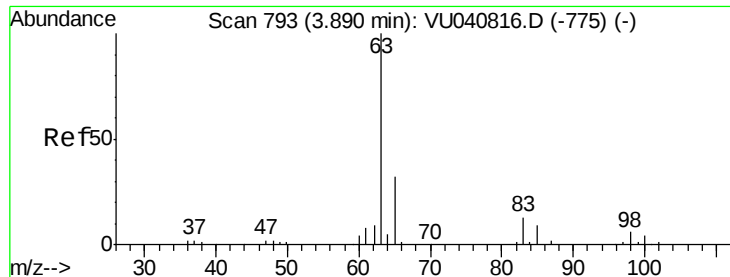
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 241.2 | 128.8 | 239.2# |
| 63      | 873.5 | 84.6  | 157.2# |



#17  
 Methyl tert-butyl Ether  
 Concen: 0.173 ug/L  
 RT: 3.38 min Scan# 635  
 Delta R.T. 0.00 min  
 Lab File: VU040825.D  
 Acq: 19 Oct 2020 23:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 21.9  | 18.2  | 27.4  |
| 57      | 12.0  | 18.6  | 28.0# |

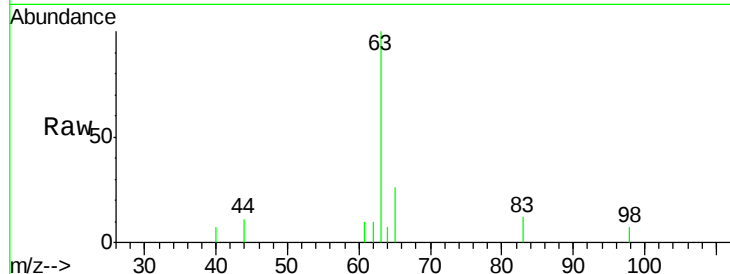




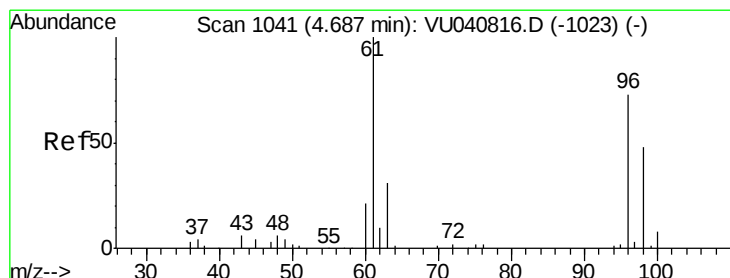
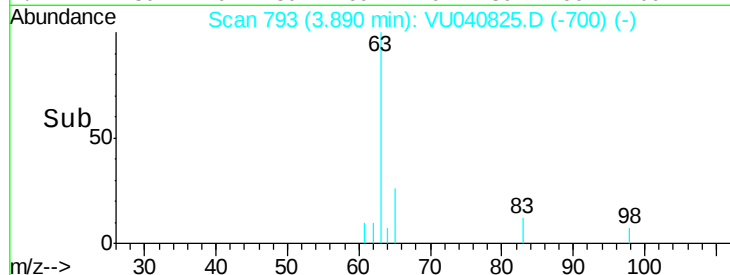
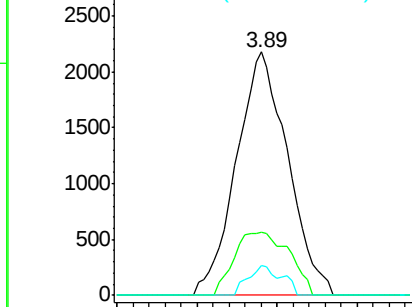
#19  
 1,1-Dichloroethane  
 Concen: 0.295 ug/L  
 RT: 3.89 min Scan# 793  
 Delta R.T. -0.00 min  
 Lab File: VU040825.D  
 Acq: 19 Oct 2020 23:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AK2

Tot Ion: 63 Resp: 4804  
 Ion Ratio Lower Upper  
 63 100  
 65 25.7 21.9 40.7  
 83 12.3 9.6 17.8

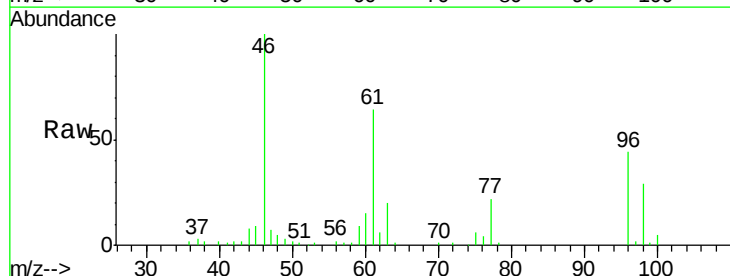


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

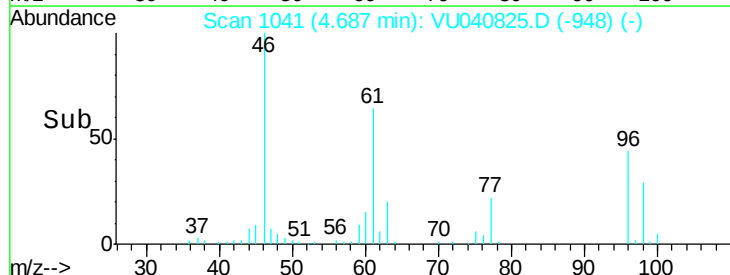
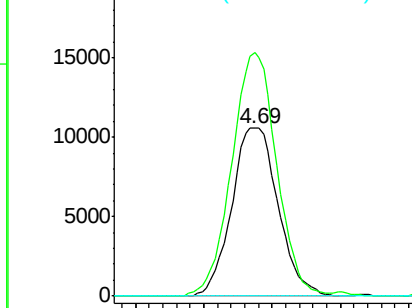


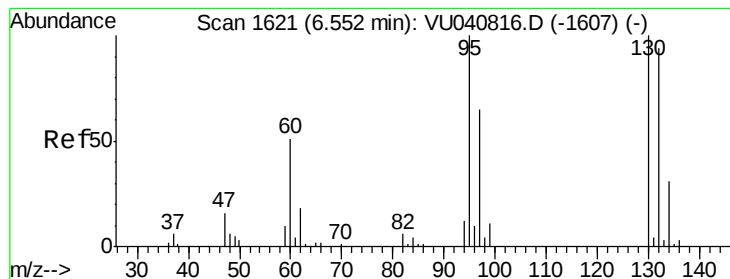
#22  
 cis-1,2-Dichloroethene  
 Concen: 2.940 ug/L  
 RT: 4.69 min Scan# 1041  
 Delta R.T. -0.00 min  
 Lab File: VU040825.D  
 Acq: 19 Oct 2020 23:51

Tgt Ion: 96 Resp: 24975  
 Ion Ratio Lower Upper  
 96 100  
 61 144.9 99.8 185.4  
 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





#34

Trichloroethene

Concen: 2.214 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU040825.D

Acq: 19 Oct 2020 23:51

Instrument :

MSVOA\_U

ClientSampleId :

C0AK2

Tot Ion: 95 Resp: 20350

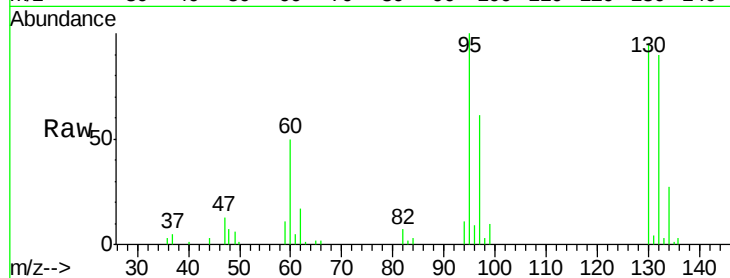
Ion Ratio Lower Upper

95 100

97 61.1 45.5 84.5

132 90.3 67.5 125.4

130 95.2 69.9 129.9

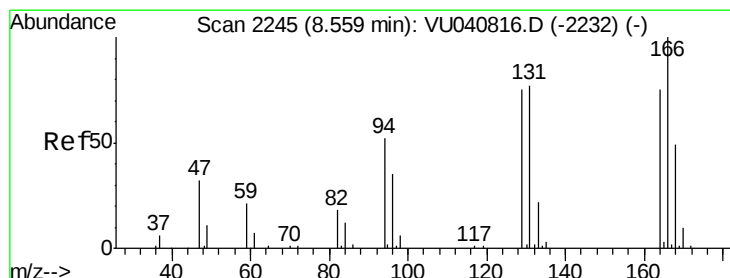
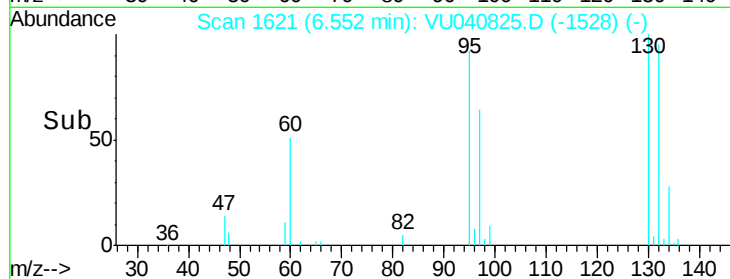
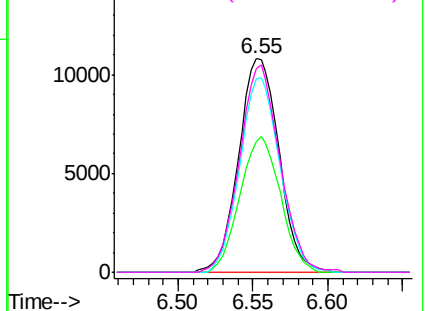


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#47

Tetrachloroethene

Concen: 1.643 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU040825.D

Acq: 19 Oct 2020 23:51

Tgt Ion: 164 Resp: 10773

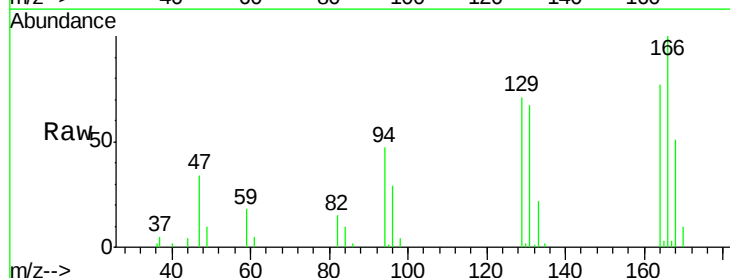
Ion Ratio Lower Upper

164 100

129 92.0 68.8 127.8

131 86.9 66.7 123.9

166 129.5 83.9 155.7



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

