

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051220\  
 Data File : VU038131.D  
 Acq On : 12 May 2020 17:54  
 Operator : JC/MD  
 Sample : L2570-09  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: May 13 01:17:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed May 13 01:13:24 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 379050   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 369855   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 181045   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 171987   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 135115   | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 200246   | 3.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 69.00%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 478682   | 55.96    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 111.92% |
| 24) Chloroform-d               | 5.10   | 84    | 236300   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 145390   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.40%  |
| 32) Benzene-d6                 | 5.76   | 84    | 526699   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 169563   | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.80%  |
| 41) Toluene-d8                 | 7.92   | 98    | 468742   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.20%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 66524    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.80%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 371382   | 54.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 109.78% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 140816   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 174252   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.80%  |

## Target Compounds

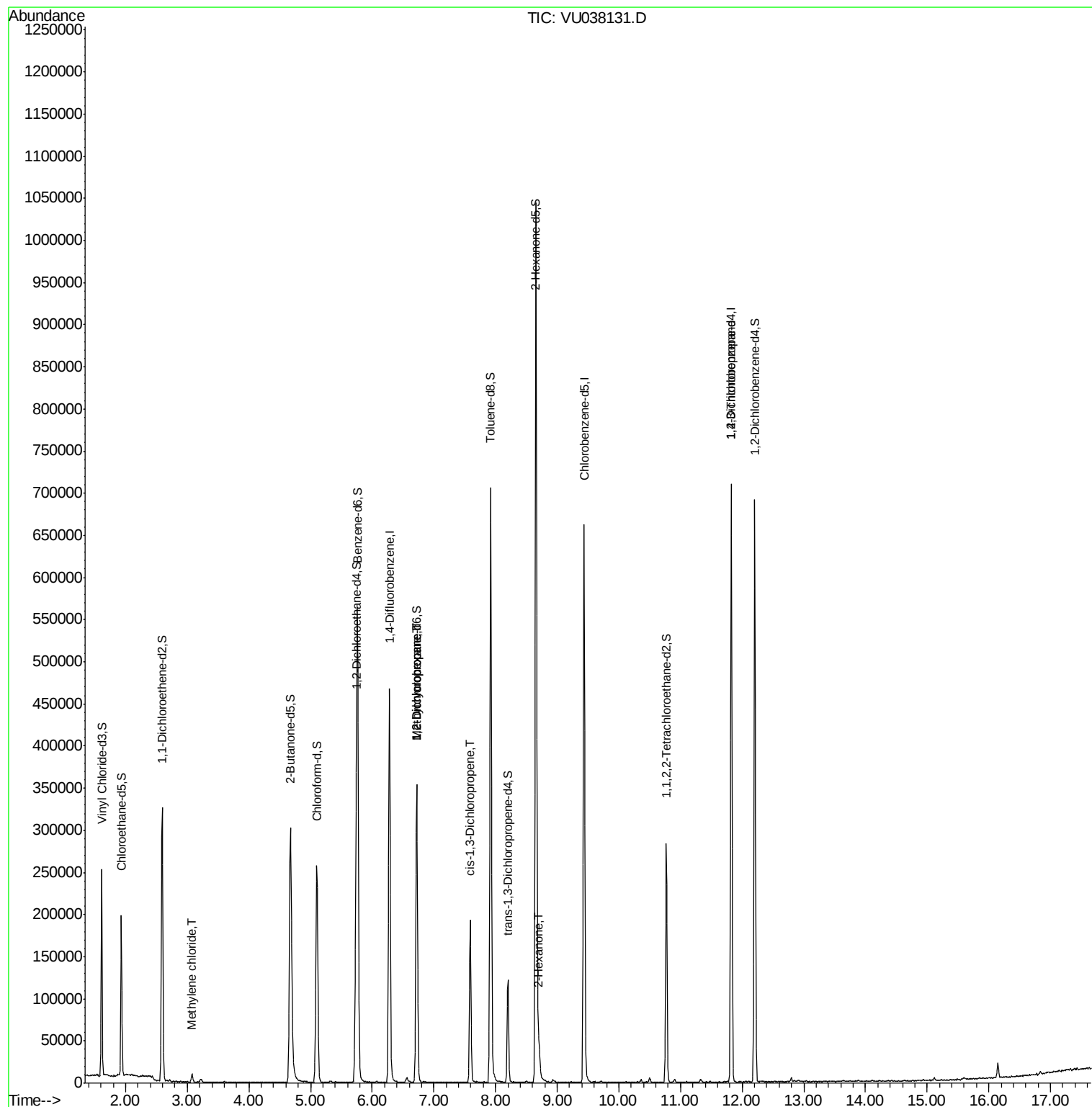
|                             |       |    |       |              | Ovalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 16) Methylene chloride      | 3.08  | 84 | 4176  | 0.136 ug/L   | 93     |
| 35) Methylcyclohexane       | 6.72  | 83 | 37179 | 0.775 ug/L # | 16     |
| 37) 1,2-Dichloropropane     | 6.72  | 63 | 17892 | 0.556 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene | 7.59  | 75 | 4117  | 0.089 ug/L # | 75     |
| 48) 2-Hexanone              | 8.71  | 43 | 23696 | 1.451 ug/L   | 96     |
| 59) 1,2,3-Trichloropropane  | 11.82 | 75 | 23781 | 1.101 ug/L   | 92     |

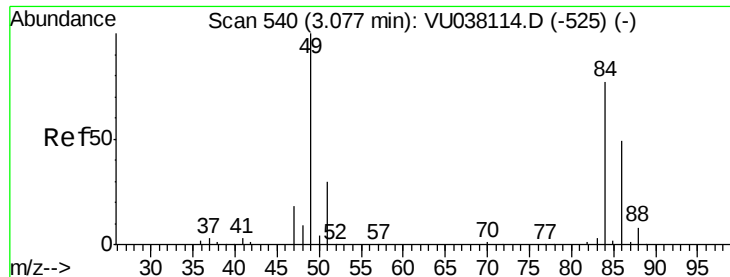
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L2570-09  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: May 13 01:17:09 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed May 13 01:13:24 2020  
Response via : Initial Calibration

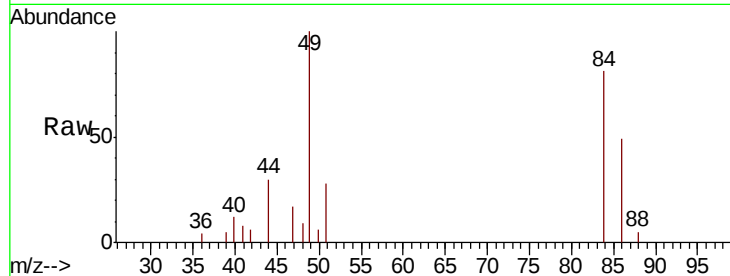




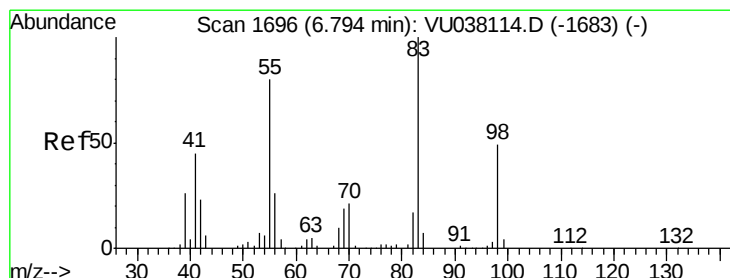
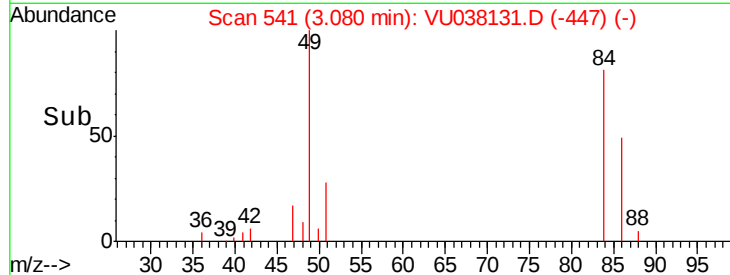
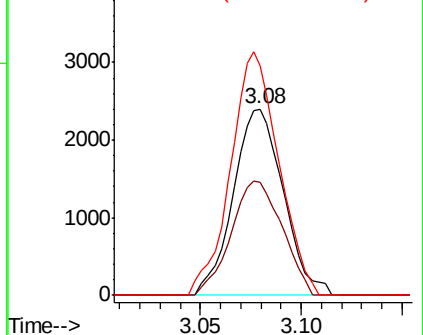
#16  
Methylene chloride  
Concen: 0.136 ug/L  
RT: 3.08 min Scan# 541  
Delta R.T. 0.00 min  
Lab File: VU038131.D  
Acq: 12 May 2020 17:54

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 84 Resp: 4176  
Ion Ratio Lower Upper  
84 100  
86 60.2 44.9 83.3  
49 122.9 92.0 170.9

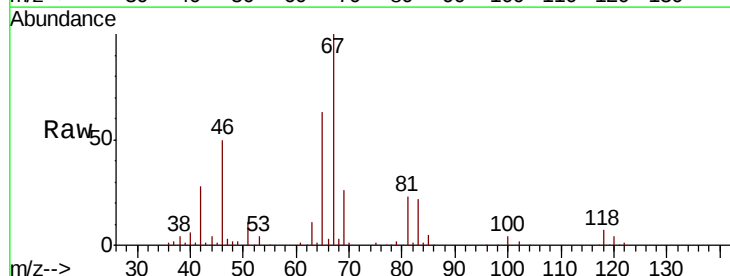


Abundance Ion 84.05 (83.75 to 84.75): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.10 (48.80 to 49.80): VU0

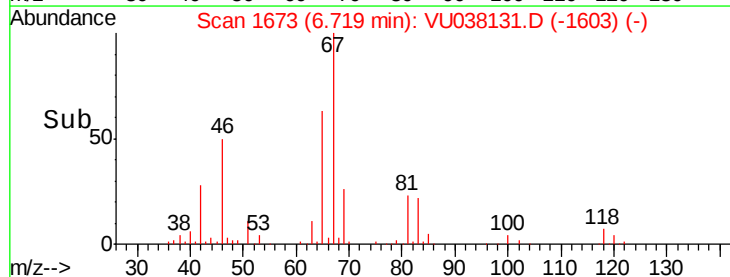
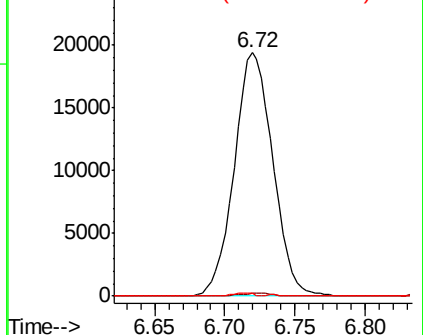


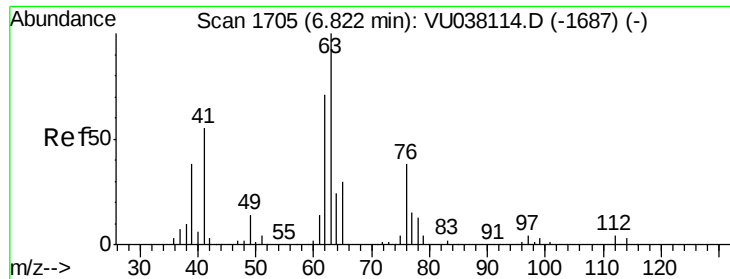
#35  
Methylcyclohexane  
Concen: 0.775 ug/L  
RT: 6.72 min Scan# 1673  
Delta R.T. -0.07 min  
Lab File: VU038131.D  
Acq: 12 May 2020 17:54

Tgt Ion: 83 Resp: 37179  
Ion Ratio Lower Upper  
83 100  
55 0.9 66.7 100.1#  
98 0.1 39.4 59.2#



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

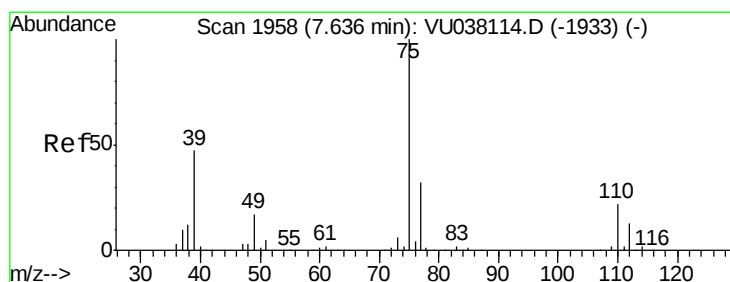
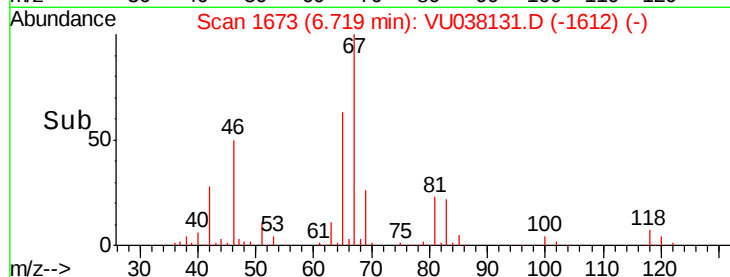
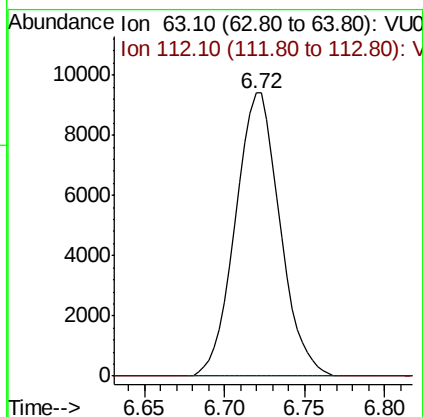
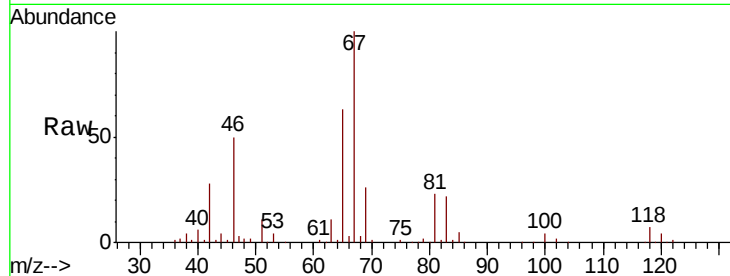




#37  
 1,2-Dichloropropane  
 Concen: 0.556 ug/L  
 RT: 6.72 min Scan# 1673  
 Delta R.T. -0.10 min  
 Lab File: VU038131.D  
 Acq: 12 May 2020 17:54

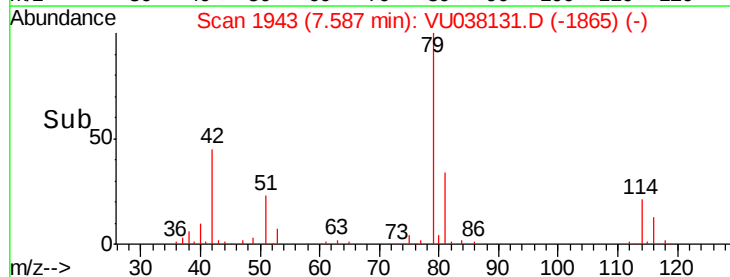
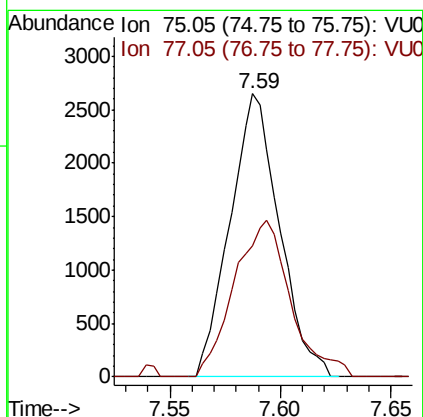
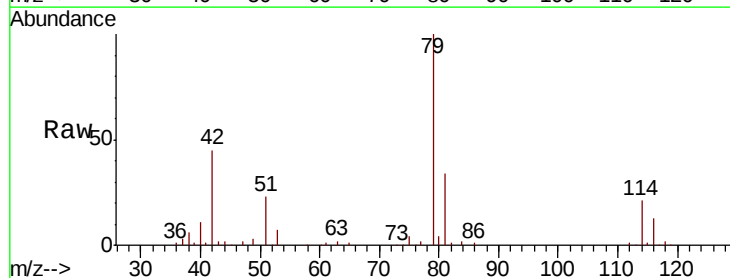
Instrument :  
 MSVOA\_U  
 ClientSampled :

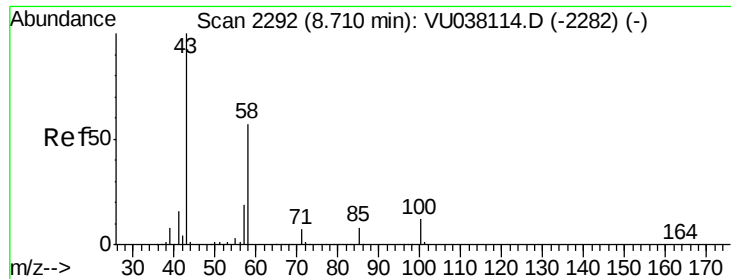
Tot Ion: 63 Resp: 17892  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.1 4.7#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.089 ug/L  
 RT: 7.59 min Scan# 1943  
 Delta R.T. -0.05 min  
 Lab File: VU038131.D  
 Acq: 12 May 2020 17:54

Tgt Ion: 75 Resp: 4117  
 Ion Ratio Lower Upper  
 75 100  
 77 46.2 22.4 41.6#

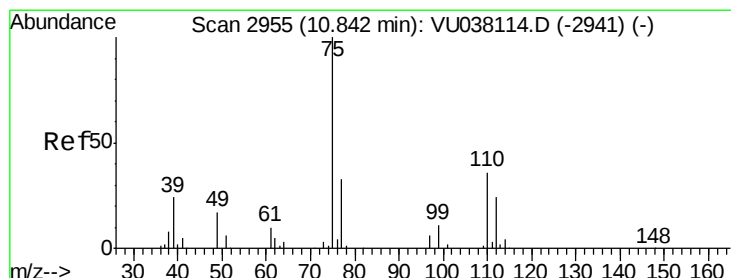
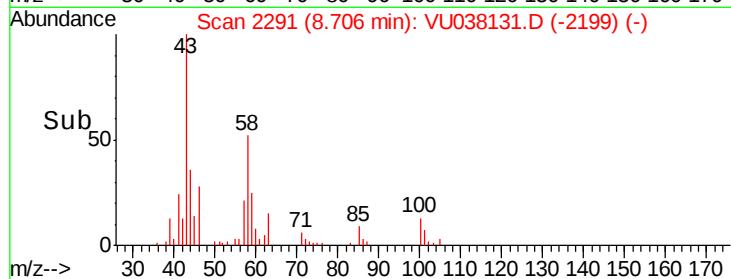
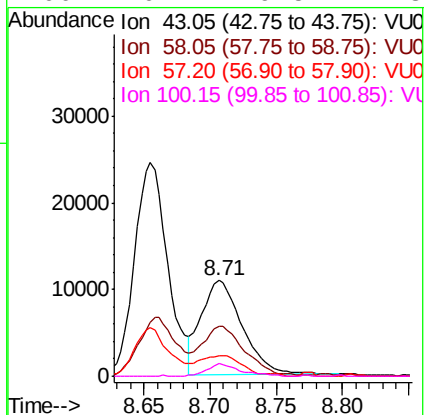
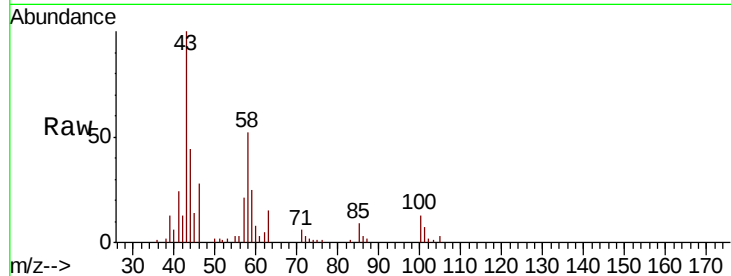




#48  
2-Hexanone  
Concen: 1.451 ug/L  
RT: 8.71 min Scan# 2291  
Delta R.T. -0.00 min  
Lab File: VU038131.D  
Acq: 12 May 2020 17:54

Instrument :  
MSVOA\_U  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 23696 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 52.9  | 45.2  | 67.8  |
| 57       | 19.6  | 15.5  | 23.3  |
| 100      | 10.7  | 9.5   | 14.3  |



#59  
1,2,3-Trichloropropane  
Concen: 1.101 ug/L  
RT: 11.82 min Scan# 3260  
Delta R.T. 0.98 min  
Lab File: VU038131.D  
Acq: 12 May 2020 17:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 23781 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 36.3  | 25.4  | 38.0  |

