

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032820\  
 Data File : VU037421.D  
 Acq On : 28 Mar 2020 16:57  
 Operator : JC/MD  
 Sample : L2002-03MS  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Mar 30 00:23:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Mar 30 00:15:54 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 115836   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 110603   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 56188    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 40002    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 93.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 33352    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 104.20% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 80457    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.40%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 114693   | 49.21    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 98.42%  |
| 24) Chloroform-d               | 5.10   | 84    | 78130    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 44968    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.76   | 84    | 155933   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 50802    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.00%  |
| 41) Toluene-d8                 | 7.92   | 98    | 145228   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.80%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 23983    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.40%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 99381    | 50.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 41716    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 56990    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 103.00% |

## Target Compounds

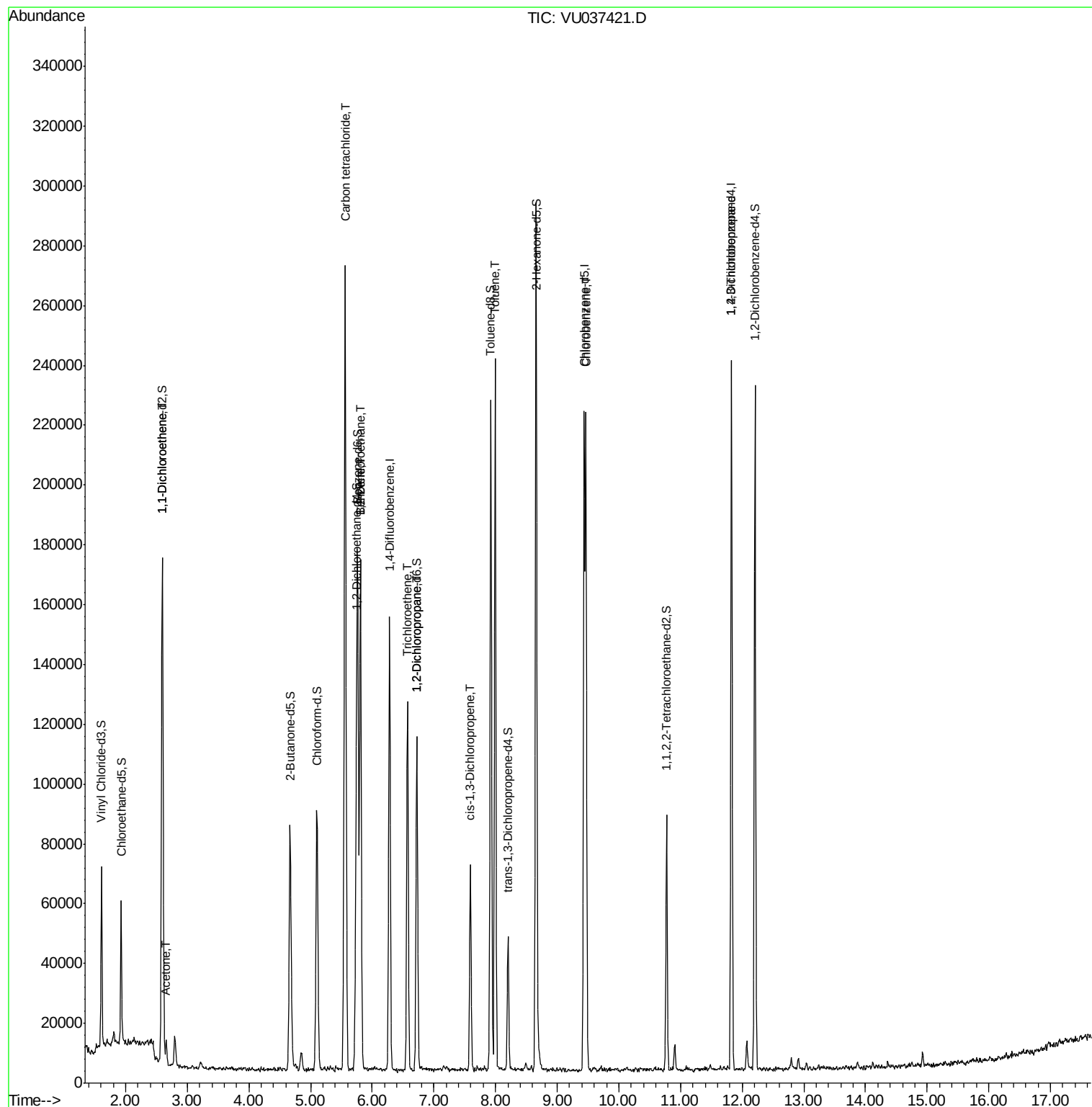
| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 12) 1,1-Dichloroethene      | 2.60  | 96   | 34084    | 4.474  | ug/L   | 99     |
| 13) Acetone                 | 2.66  | 43   | 8503     | 6.350  | ug/L   | 93     |
| 27) 1,2-Dichloroethane      | 5.81  | 62   | 1382     | 0.132  | ug/L # | 75     |
| 31) Carbon tetrachloride    | 5.56  | 117  | 178927   | 14.907 | ug/L   | 98     |
| 33) Benzene                 | 5.81  | 78   | 155566   | 4.750  | ug/L   | 100    |
| 34) Trichloroethene         | 6.57  | 95   | 41593    | 4.459  | ug/L   | 96     |
| 37) 1,2-Dichloropropane     | 6.73  | 63   | 5725     | 0.676  | ug/L # | 92     |
| 39) cis-1,3-Dichloropropene | 7.59  | 75   | 1597     | 0.116  | ug/L # | 56     |
| 42) Toluene                 | 8.00  | 91   | 167469   | 4.744  | ug/L   | 100    |
| 51) Chlorobenzene           | 9.47  | 112  | 104218   | 4.274  | ug/L   | 100    |
| 59) 1,2,3-Trichloropropane  | 11.83 | 75   | 8320     | 1.413  | ug/L   | 92     |

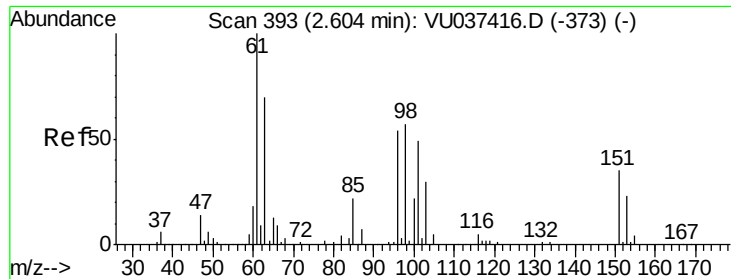
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_U  
ClientSampleId :

Quant Time: Mar 30 00:23:28 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032820WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Mar 30 00:15:54 2020  
Response via : Initial Calibration

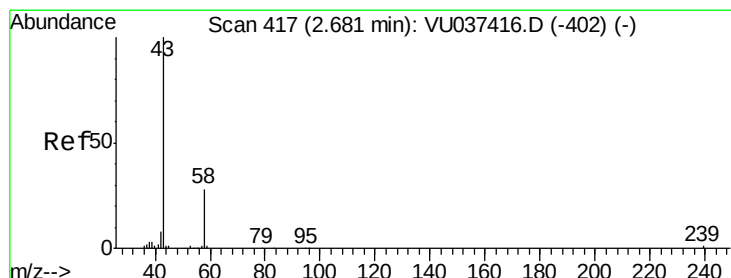
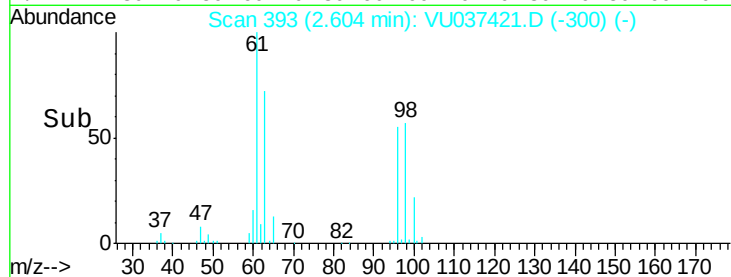
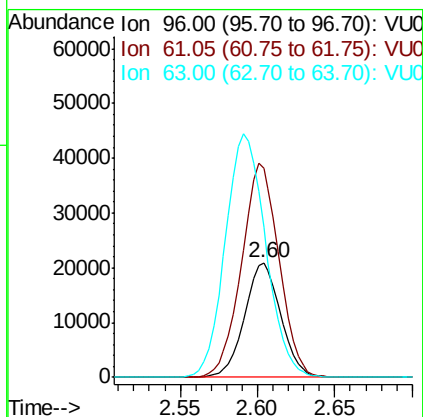
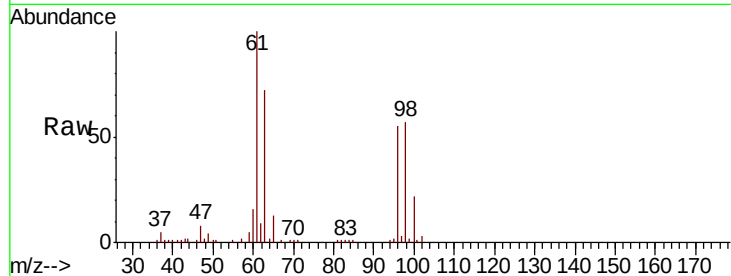




#12  
 1,1-Dichloroethene  
 Concen: 4.474 ug/L  
 RT: 2.60 min Scan# 393  
 Delta R.T. 0.00 min  
 Lab File: VU037421.D  
 Acq: 28 Mar 2020 16:57

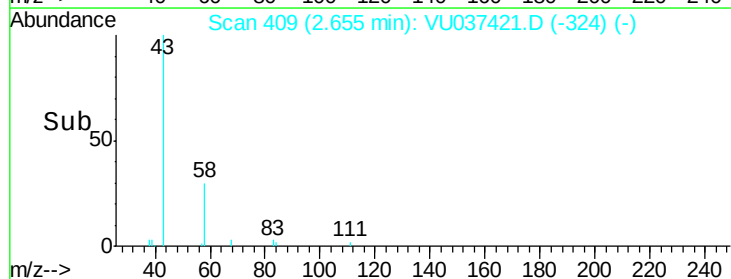
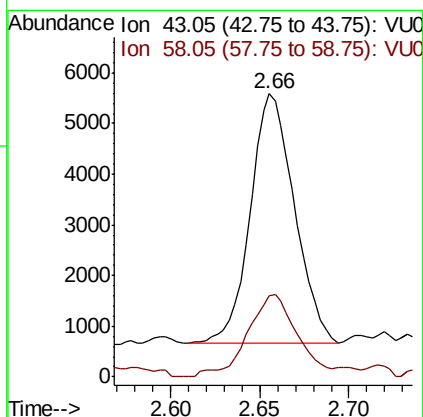
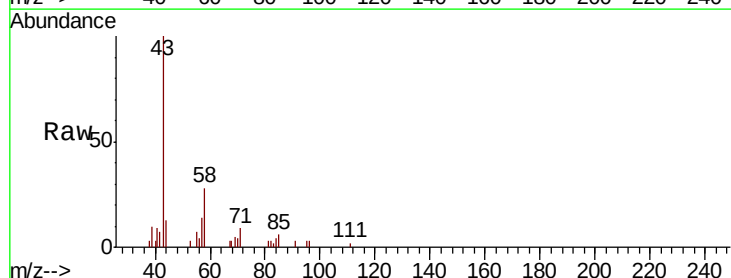
Instrument :  
 MSVOA\_U  
 ClientSampled :

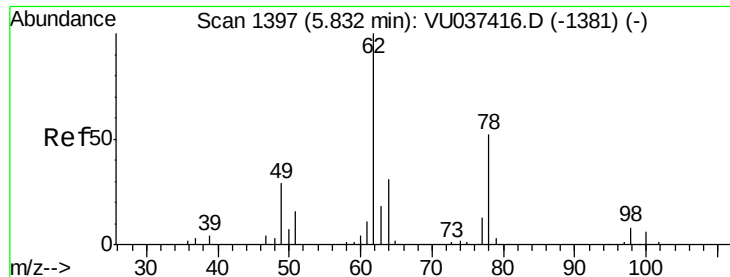
| Tot Ion | 96    | Resp  | 34084 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 181.9 | 125.4 | 232.8 |
| 63      | 130.6 | 90.9  | 168.7 |



#13  
 Acetone  
 Concen: 6.350 ug/L  
 RT: 2.66 min Scan# 409  
 Delta R.T. -0.03 min  
 Lab File: VU037421.D  
 Acq: 28 Mar 2020 16:57

| Tgt Ion | 43    | Resp  | 8503  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 43      | 100   |       |       |
| 58      | 37.0  | 0.0   | 66.0  |

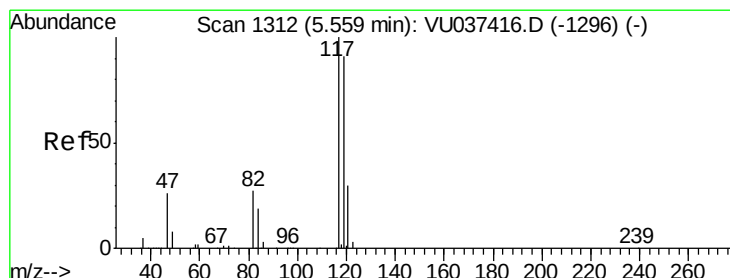
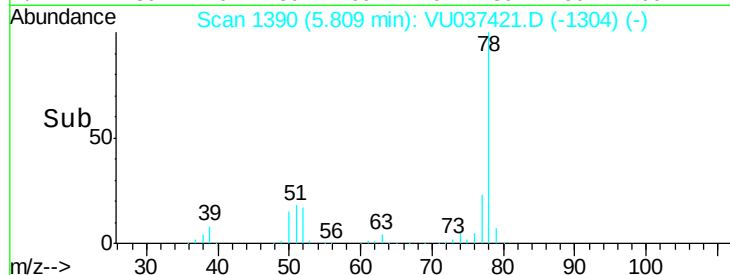
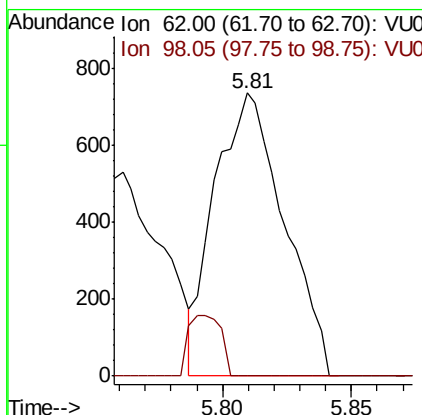
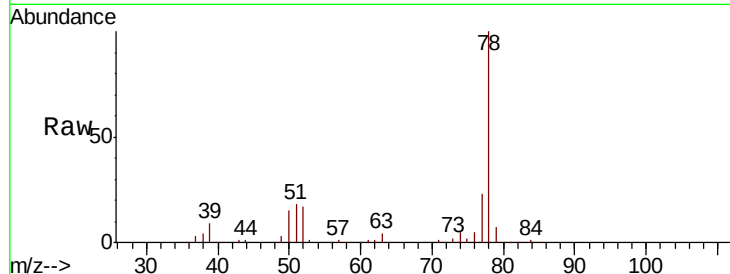




#27  
 1,2-Dichloroethane  
 Concen: 0.132 ug/L  
 RT: 5.81 min Scan# 1390  
 Delta R.T. -0.02 min  
 Lab File: VU037421.D  
 Acq: 28 Mar 2020 16:57

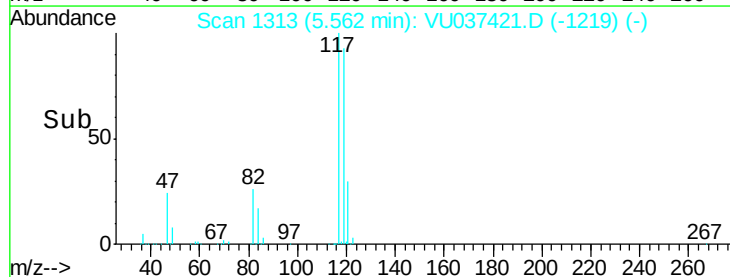
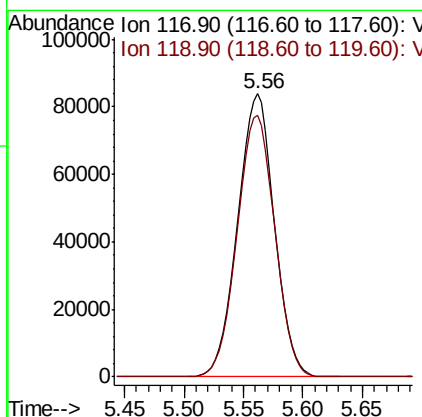
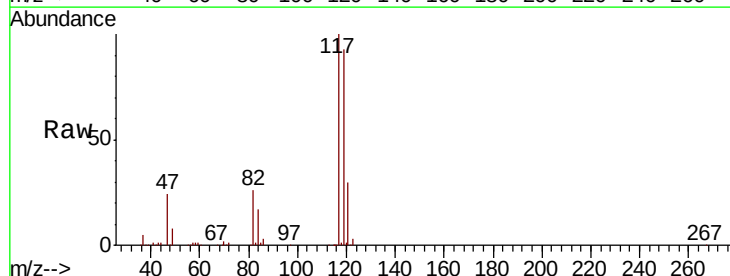
Instrument :  
 MSVOA\_U  
 ClientSampled :

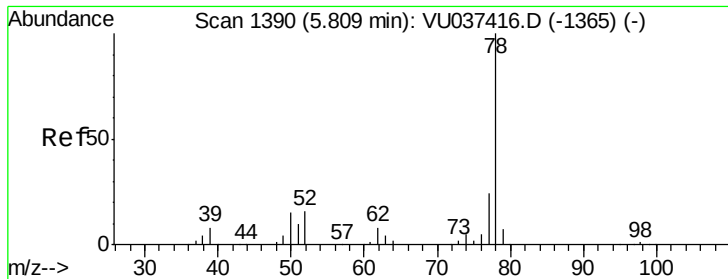
Tot Ion: 62 Resp: 1382  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 7.3 10.9#



#31  
 Carbon tetrachloride  
 Concen: 14.907 ug/L  
 RT: 5.56 min Scan# 1313  
 Delta R.T. 0.00 min  
 Lab File: VU037421.D  
 Acq: 28 Mar 2020 16:57

Tgt Ion: 117 Resp: 178927  
 Ion Ratio Lower Upper  
 117 100  
 119 95.0 77.7 116.5





#33

Benzene

Concen: 4.750 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037421.D

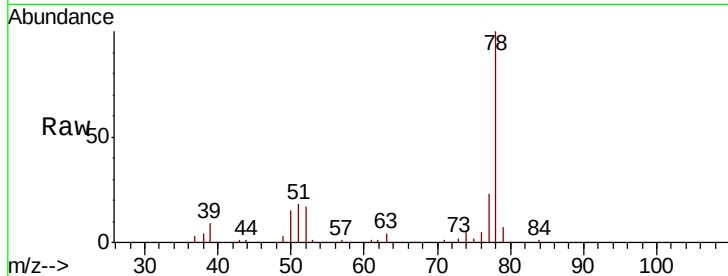
Acq: 28 Mar 2020 16:57

Instrument :

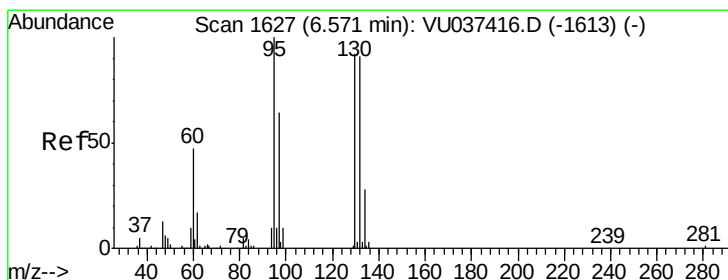
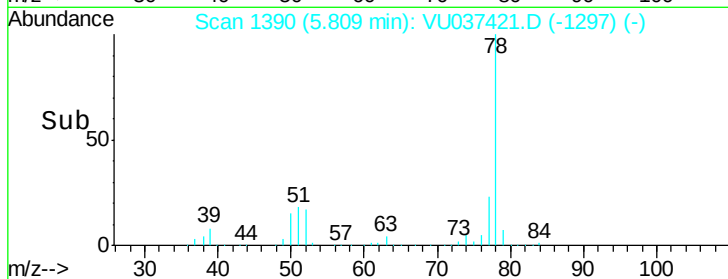
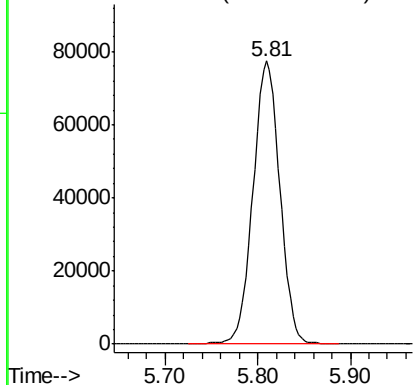
MSVOA\_U

ClientSampleId :

Tgt Ion: 78 Resp: 155566



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 4.459 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037421.D

Acq: 28 Mar 2020 16:57

Tgt Ion: 95 Resp: 41593

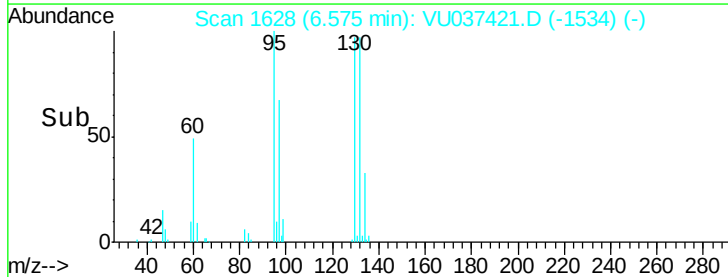
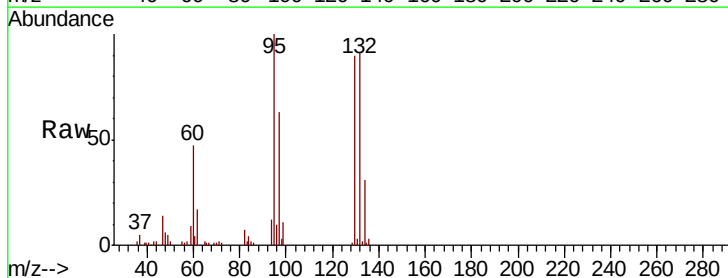
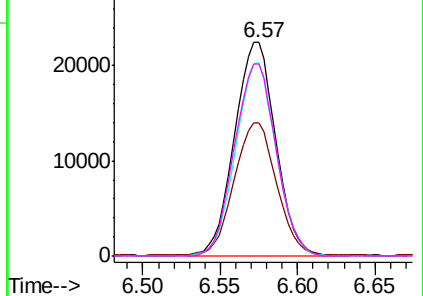
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 62.6  | 45.3  | 84.1  |
| 132 | 90.6  | 62.7  | 116.5 |
| 130 | 90.1  | 69.1  | 128.3 |

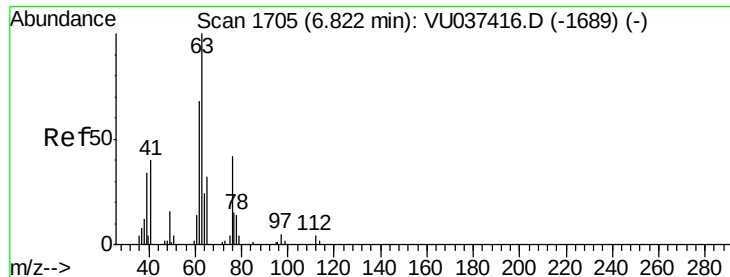
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

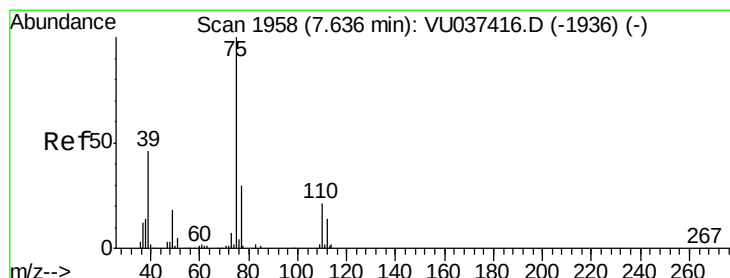
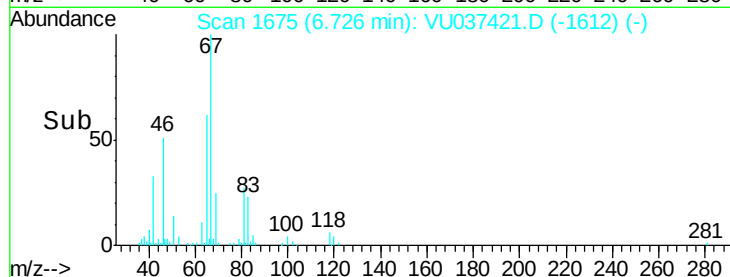
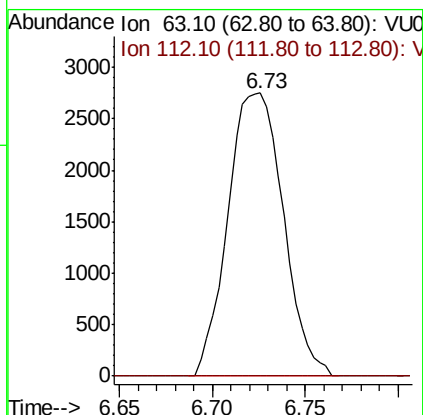
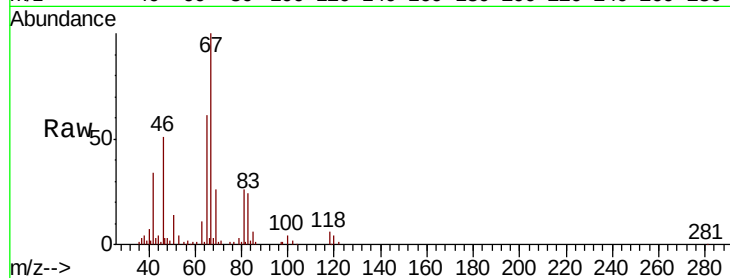




#37  
 1,2-Dichloropropane  
 Concen: 0.676 ug/L  
 RT: 6.73 min Scan# 1675  
 Delta R.T. -0.10 min  
 Lab File: VU037421.D  
 Acq: 28 Mar 2020 16:57

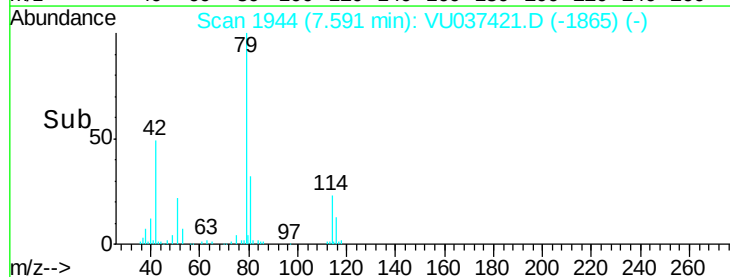
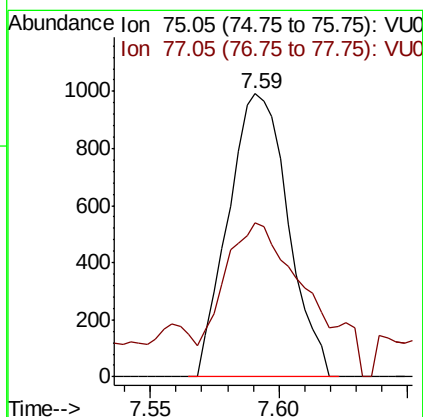
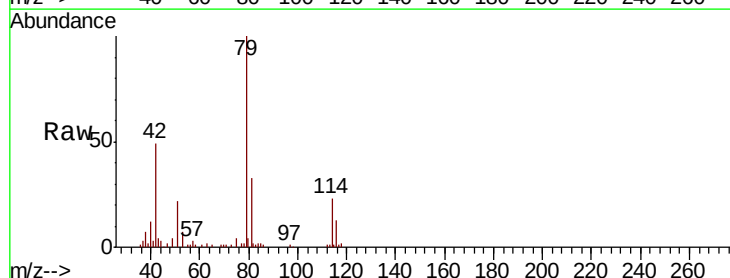
Instrument :  
 MSVOA\_U  
 ClientSampleId :

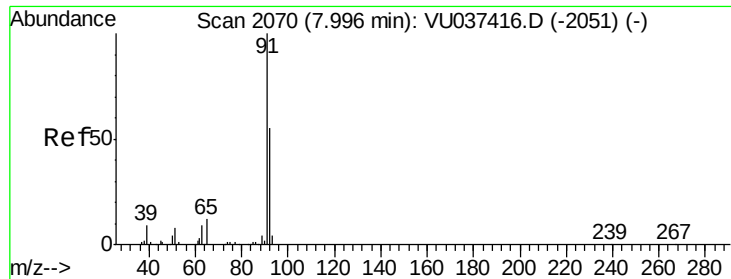
Tot Ion: 63 Resp: 5725  
 Ion Ratio Lower Upper  
 63 100  
 112 1.3 3.0 4.6#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.116 ug/L  
 RT: 7.59 min Scan# 1944  
 Delta R.T. -0.04 min  
 Lab File: VU037421.D  
 Acq: 28 Mar 2020 16:57

Tgt Ion: 75 Resp: 1597  
 Ion Ratio Lower Upper  
 75 100  
 77 54.2 21.1 39.3#





#42

Toluene

Concen: 4.744 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037421.D

Acq: 28 Mar 2020 16:57

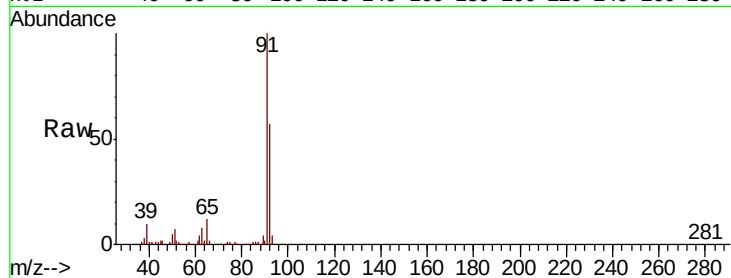
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 91 Resp: 167469

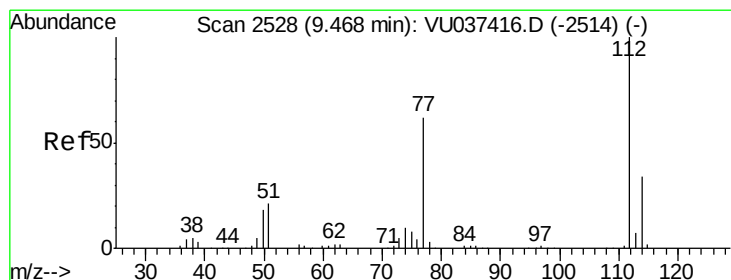
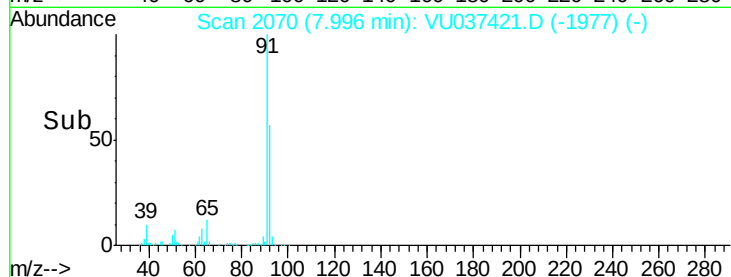
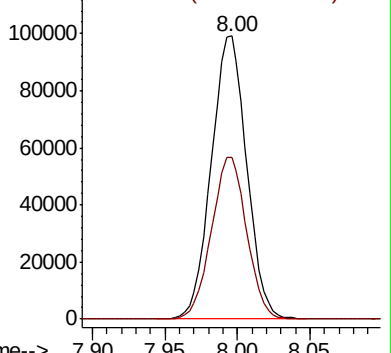
Ion Ratio Lower Upper

91 100

92 57.1 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VU037421.D (-1977) (-)



#51

Chlorobenzene

Concen: 4.274 ug/L

RT: 9.47 min Scan# 2528

Delta R.T. 0.00 min

Lab File: VU037421.D

Acq: 28 Mar 2020 16:57

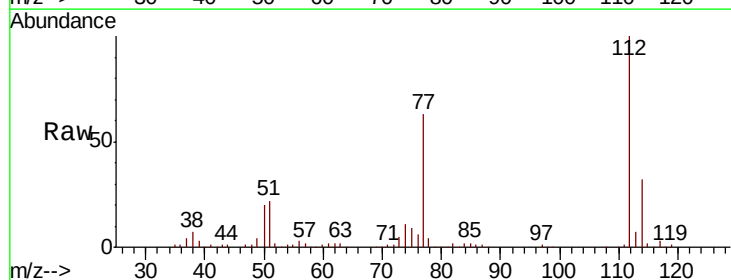
Tgt Ion: 112 Resp: 104218

Ion Ratio Lower Upper

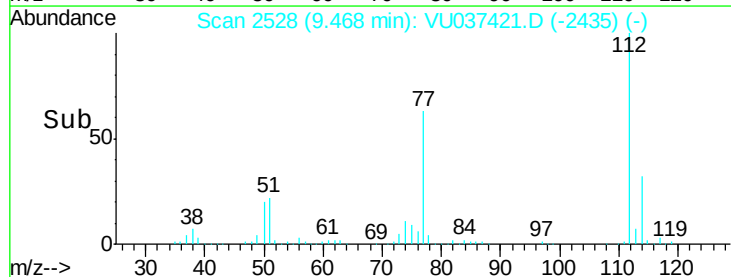
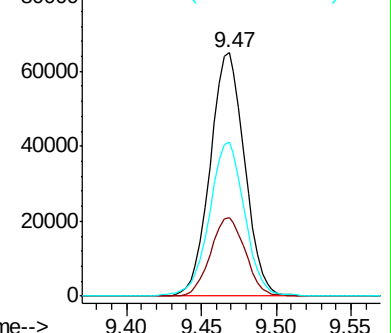
112 100

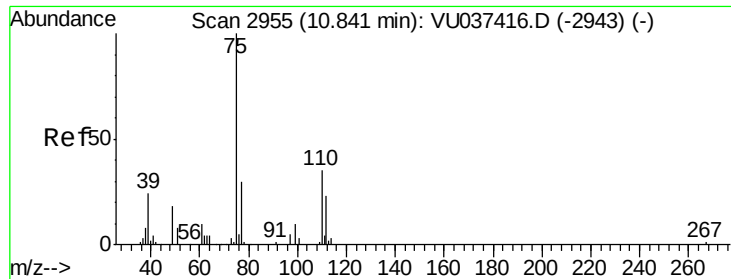
114 32.4 22.4 41.6

77 63.2 50.5 75.7



Abundance Ion 112.10 (111.80 to 112.80): VU037421.D (-2435) (-)





#59  
 1,2,3-Trichloropropane  
 Concen: 1.413 ug/L  
 RT: 11.83 min Scan# 3261  
 Delta R.T. 0.98 min  
 Lab File: VU037421.D  
 Acq: 28 Mar 2020 16:57

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 75 Resp: 8320  
 Ion Ratio Lower Upper  
 75 100  
 77 39.1 27.4 41.2

