

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031220\  
 Data File : VU037236.D  
 Acq On : 13 Mar 2020 12:03  
 Operator : JC/MD  
 Sample : L1835-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Mar 13 23:08:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 13 23:05:23 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 390021   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 381752   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 165400   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 125490   | 41.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 83.14%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 113439   | 46.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.22%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 188561   | 34.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.10%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 256145   | 107.23   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.23% |
| 24) Chloroform-d               | 5.11    | 84    | 278827   | 48.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.08%  |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 209760   | 49.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.76%  |
| 32) Benzene-d6                 | 5.76    | 84    | 512573   | 48.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.56%  |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 169281   | 49.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.42%  |
| 41) Toluene-d8                 | 7.92    | 98    | 484744   | 48.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.50%  |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 88850    | 47.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.90%  |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 178971   | 100.49   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.49% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 253893   | 47.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.30%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 184864   | 53.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.76% |

## Target Compounds

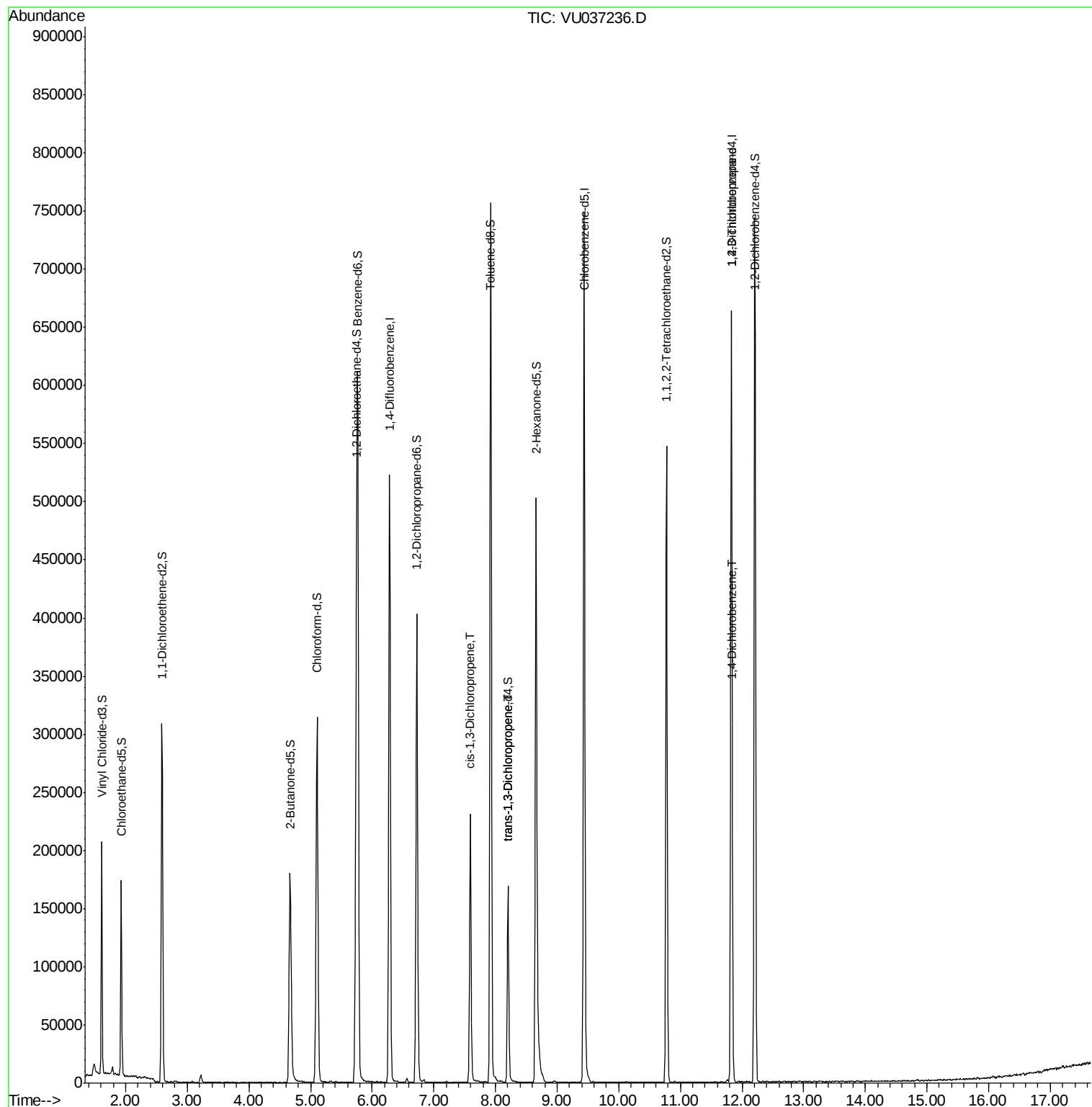
|                               |       |     |       |              | Ovalue |
|-------------------------------|-------|-----|-------|--------------|--------|
| 39) cis-1,3-Dichloropropene   | 7.59  | 75  | 6647  | 1.340 ug/L # | 49     |
| 44) trans-1,3-Dichloropropene | 8.20  | 75  | 5014  | 1.071 ug/L # | 82     |
| 59) 1,2,3-Trichloropropane    | 11.83 | 75  | 23566 | 5.300 ug/L   | 92     |
| 63) 1,4-Dichlorobenzene       | 11.85 | 146 | 4696  | 0.886 ug/L   | 91     |

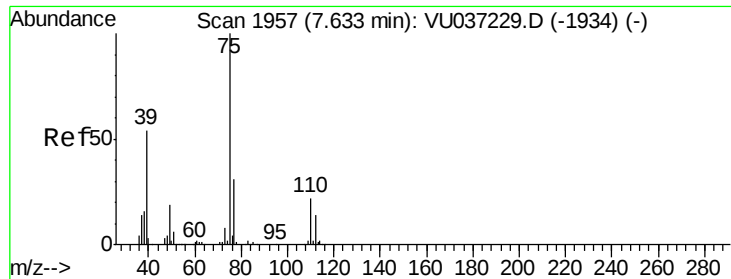
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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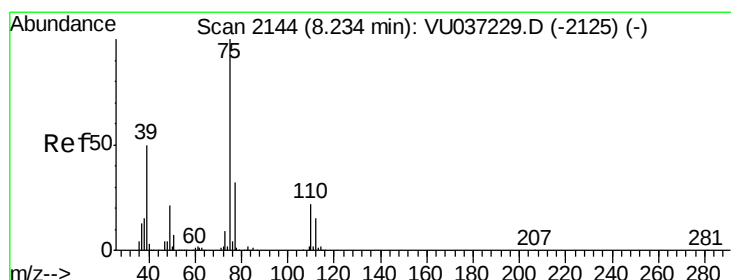
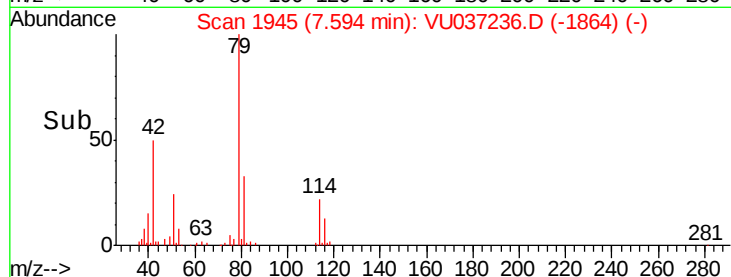
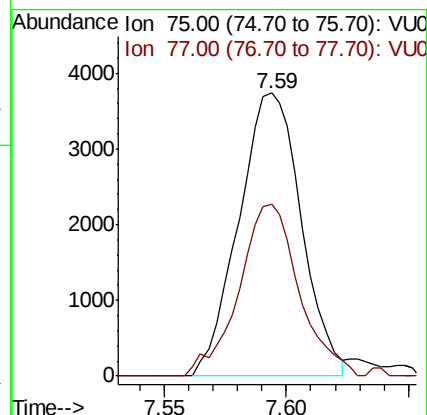
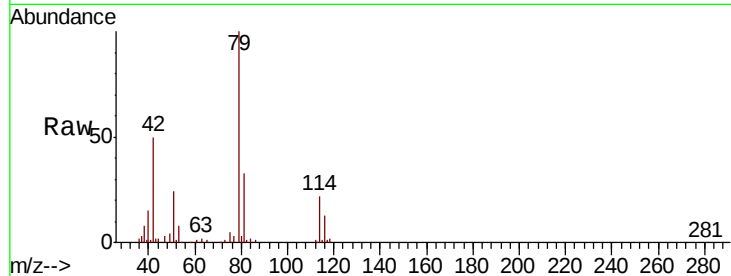


#39

cis-1,3-Dichloropropene  
Concen: 1.340 ug/L  
RT: 7.59 min Scan# 1945  
Delta R.T. -0.04 min  
Lab File: VU037236.D  
Acq: 13 Mar 2020 12:03

Instrument :  
MSVOA\_U  
ClientSampleId :

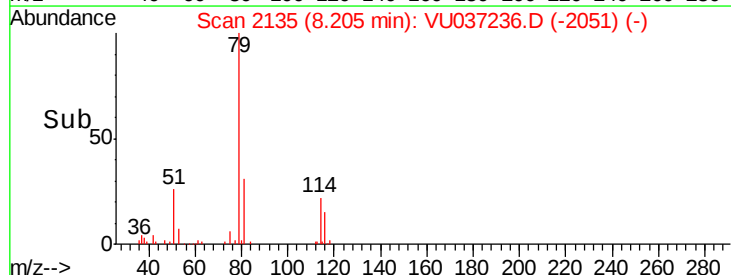
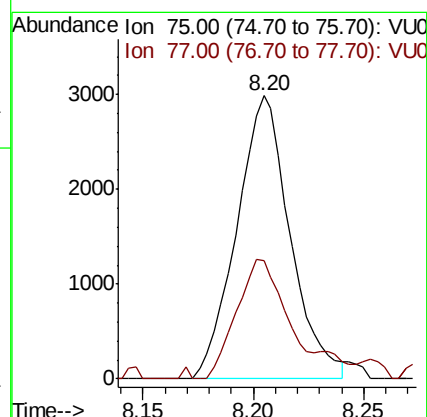
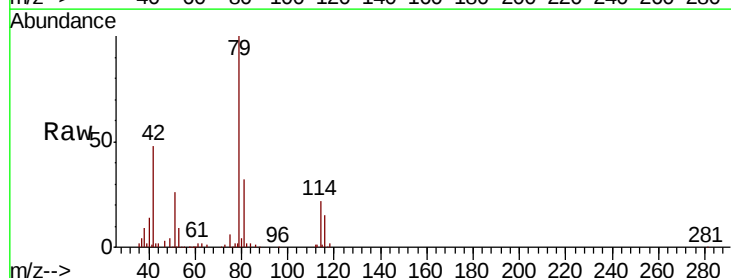
Tot Ion: 75 Resp: 6647  
Ion Ratio Lower Upper  
75 100  
77 60.9 22.5 41.9#

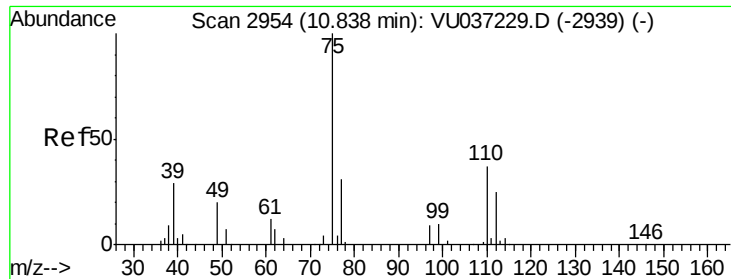


#44

trans-1,3-Dichloropropene  
Concen: 1.071 ug/L  
RT: 8.20 min Scan# 2135  
Delta R.T. -0.03 min  
Lab File: VU037236.D  
Acq: 13 Mar 2020 12:03

Tgt Ion: 75 Resp: 5014  
Ion Ratio Lower Upper  
75 100  
77 41.6 22.1 41.1#

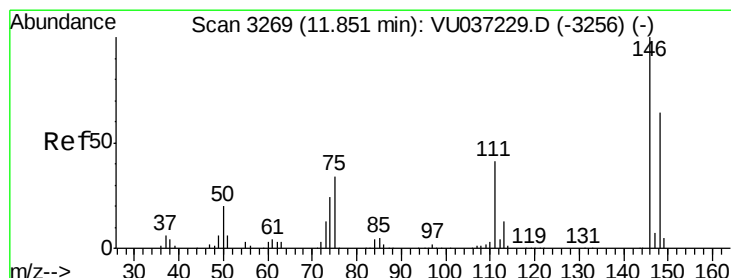
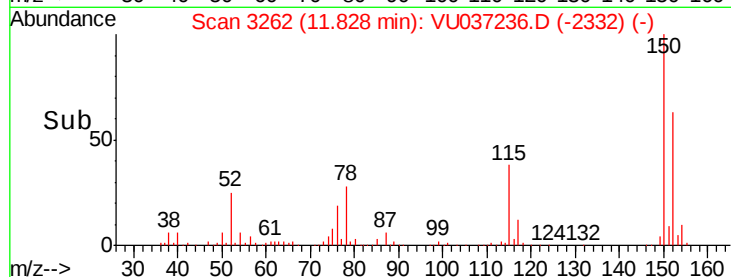
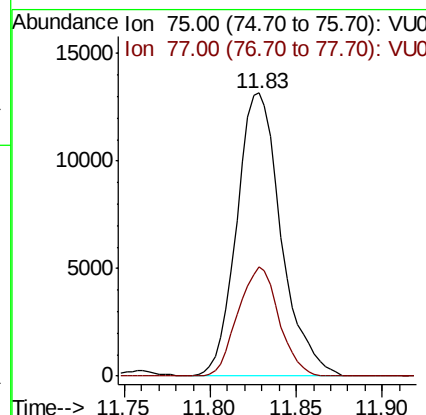
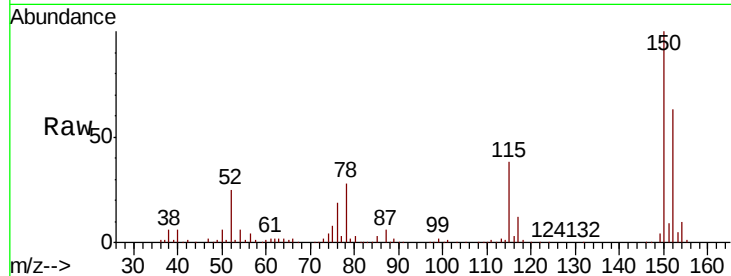




#59  
 1,2,3-Trichloropropane  
 Concen: 5.300 ug/L  
 RT: 11.83 min Scan# 3262  
 Delta R.T. 0.99 min  
 Lab File: VU037236.D  
 Acq: 13 Mar 2020 12:03

Instrument :  
 MSVOA\_U  
 ClientSampled :

Tot Ion: 75 Resp: 23566  
 Ion Ratio Lower Upper  
 75 100  
 77 35.5 25.0 37.6



#63  
 1,4-Dichlorobenzene  
 Concen: 0.886 ug/L  
 RT: 11.85 min Scan# 3269  
 Delta R.T. -0.00 min  
 Lab File: VU037236.D  
 Acq: 13 Mar 2020 12:03

Tgt Ion: 146 Resp: 4696  
 Ion Ratio Lower Upper  
 146 100  
 111 48.3 28.5 52.9  
 148 69.5 44.8 83.2

