

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080819\  
 Data File : VU033679.D  
 Acq On : 09 Aug 2019 07:59  
 Operator : JC/SP  
 Sample : K4215-09 20X  
 Misc : 5.36g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 09 14:41:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080819WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 09 14:36:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 320400   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 328769   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 158090   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 138488   | 38.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 76.58%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 121108   | 39.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 79.12%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 185532   | 31.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 63.46%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 216291   | 81.65    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 81.65%  |
| 24) Chloroform-d               | 4.62    | 84    | 226691   | 37.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 75.64%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 156017   | 40.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.74%  |
| 32) Benzene-d6                 | 5.32    | 84    | 478361   | 39.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 78.04%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 152565   | 39.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 78.28%  |
| 41) Toluene-d8                 | 7.55    | 98    | 428819   | 37.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 75.66%# |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 66358    | 34.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.56%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 155624   | 79.74    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 79.74%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 234762   | 38.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 77.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 177450   | 41.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.16%  |

## Target Compounds

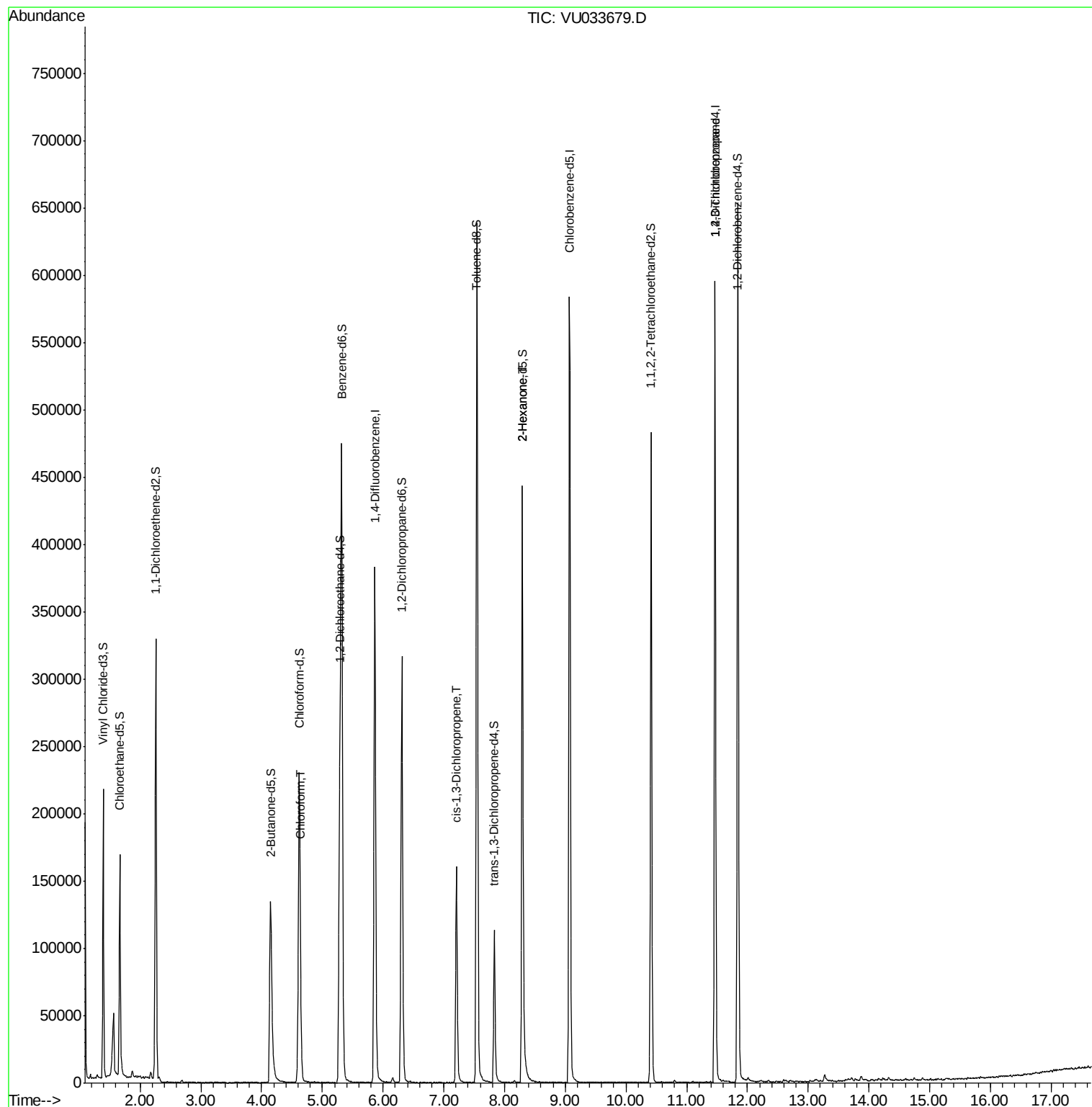
|                             |       |    |       |              | Ovalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 25) Chloroform              | 4.65  | 83 | 5068  | 1.050 ug/L   | 92     |
| 39) cis-1,3-Dichloropropene | 7.21  | 75 | 4009  | 0.960 ug/L # | 67     |
| 48) 2-Hexanone              | 8.29  | 43 | 18218 | 5.430 ug/L # | 68     |
| 59) 1,2,3-Trichloropropane  | 11.47 | 75 | 18202 | 4.752 ug/L   | 92     |

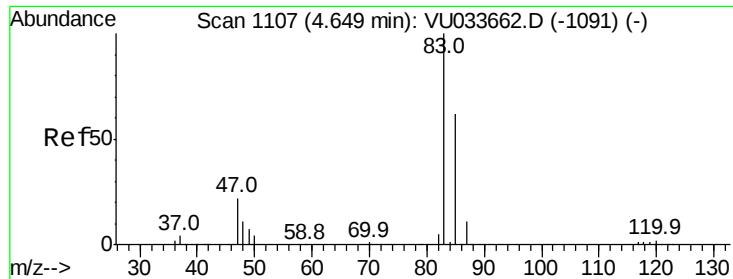
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 09 14:36:24 2019  
Response via : Initial Calibration

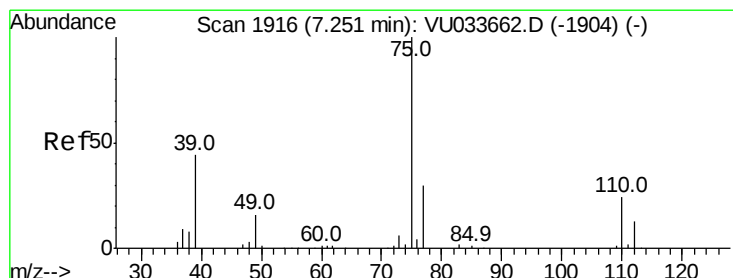
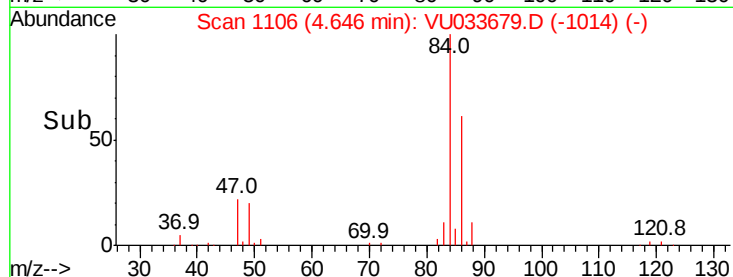
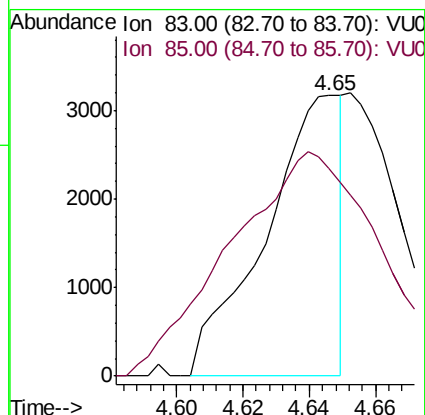
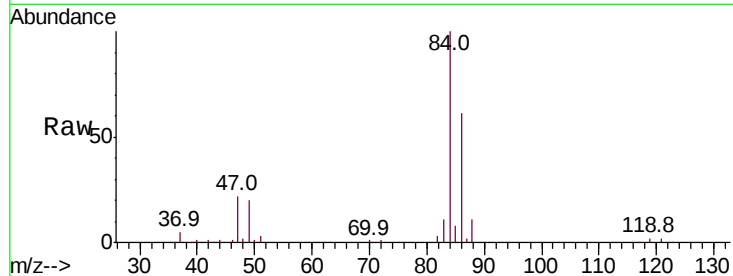




#25  
Chloroform  
Concen: 1.050 ug/L  
RT: 4.65 min Scan# 1106  
Delta R.T. -0.00 min  
Lab File: VU033679.D  
Acq: 09 Aug 2019 07:59

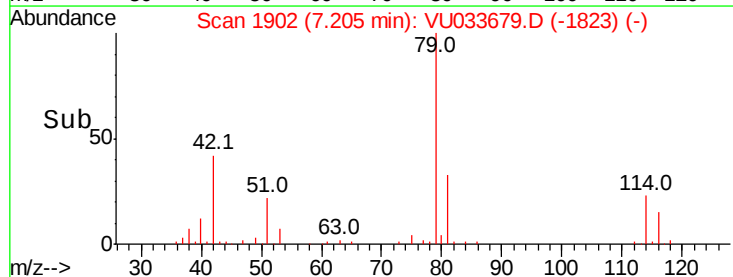
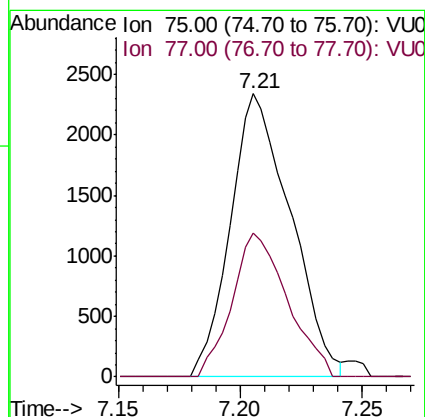
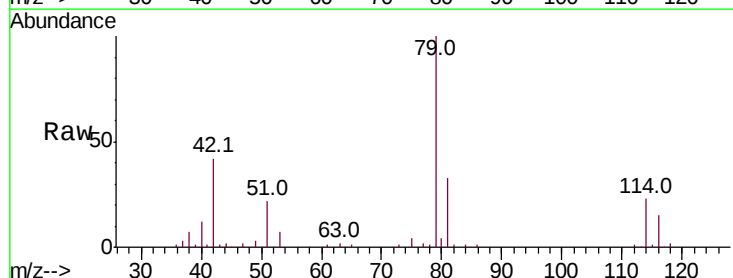
Instrument :  
MSVOA\_U  
ClientSampleId :

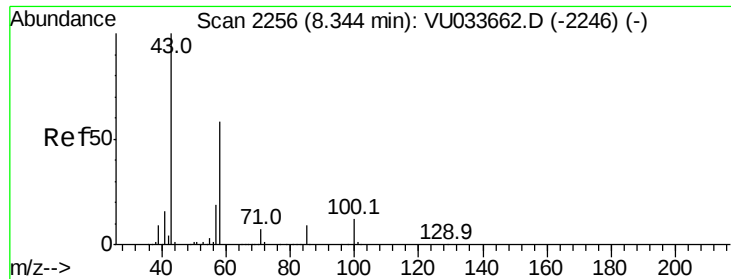
Tot Ion: 83 Resp: 5068  
Ion Ratio Lower Upper  
83 100  
85 73.9 47.2 87.6



#39  
cis-1,3-Dichloropropene  
Concen: 0.960 ug/L  
RT: 7.21 min Scan# 1902  
Delta R.T. -0.05 min  
Lab File: VU033679.D  
Acq: 09 Aug 2019 07:59

Tgt Ion: 75 Resp: 4009  
Ion Ratio Lower Upper  
75 100  
77 50.9 22.5 41.9#

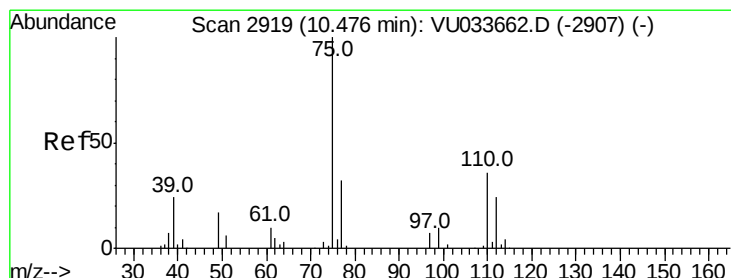
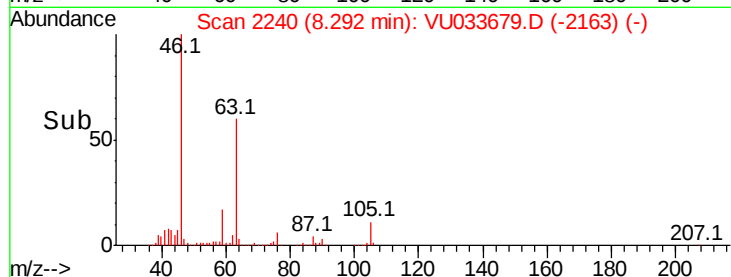
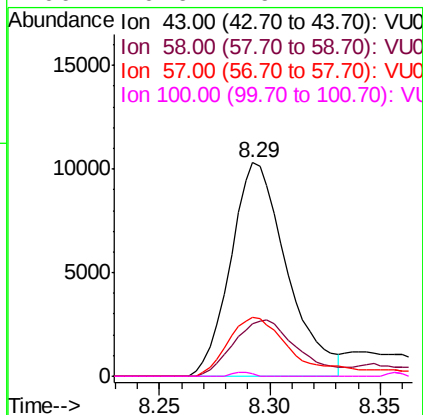
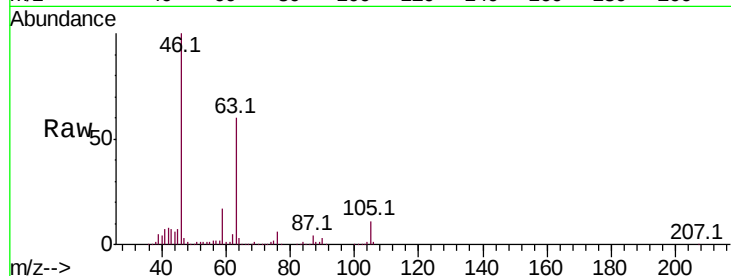




#48  
 2-Hexanone  
 Concen: 5.430 ug/L  
 RT: 8.29 min Scan# 2240  
 Delta R.T. -0.05 min  
 Lab File: VU033679.D  
 Acq: 09 Aug 2019 07:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 43 Resp: 18218  
 Ion Ratio Lower Upper  
 43 100  
 58 30.3 44.8 67.2#  
 57 31.4 15.5 23.3#  
 100 0.6 9.4 14.2#



#59  
 1,2,3-Trichloropropane  
 Concen: 4.752 ug/L  
 RT: 11.47 min Scan# 3227  
 Delta R.T. 0.99 min  
 Lab File: VU033679.D  
 Acq: 09 Aug 2019 07:59

Tgt Ion: 75 Resp: 18202  
 Ion Ratio Lower Upper  
 75 100  
 77 36.1 25.5 38.3

