

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040920\  
 Data File : VU037669.D  
 Acq On : 10 Apr 2020 13:46  
 Operator : JC/MD  
 Sample : L2189-01 10X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFS79

Quant Time: Apr 11 00:51:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 10 23:26:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 542787   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 512182   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 247933   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 174457   | 36.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 73.54% |
| 7) Chloroethane-d5             | 1.93    | 69    | 155954   | 40.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 81.34% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 243510   | 31.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.98% |
| 21) 2-Butanone-d5              | 4.67    | 46    | 374035   | 97.29    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.29% |
| 24) Chloroform-d               | 5.10    | 84    | 315906   | 44.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.60% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 228958   | 47.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.52% |
| 32) Benzene-d6                 | 5.76    | 84    | 676326   | 44.88    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.76% |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 231754   | 46.20    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.40% |
| 41) Toluene-d8                 | 7.92    | 98    | 614023   | 43.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.90% |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 120083   | 44.29    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.58% |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 274438   | 95.57    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.57% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 329035   | 46.44    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.88% |
| 64) 1,2-Dichlorobenzene-d4     | 12.20   | 152   | 226145   | 43.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.66% |

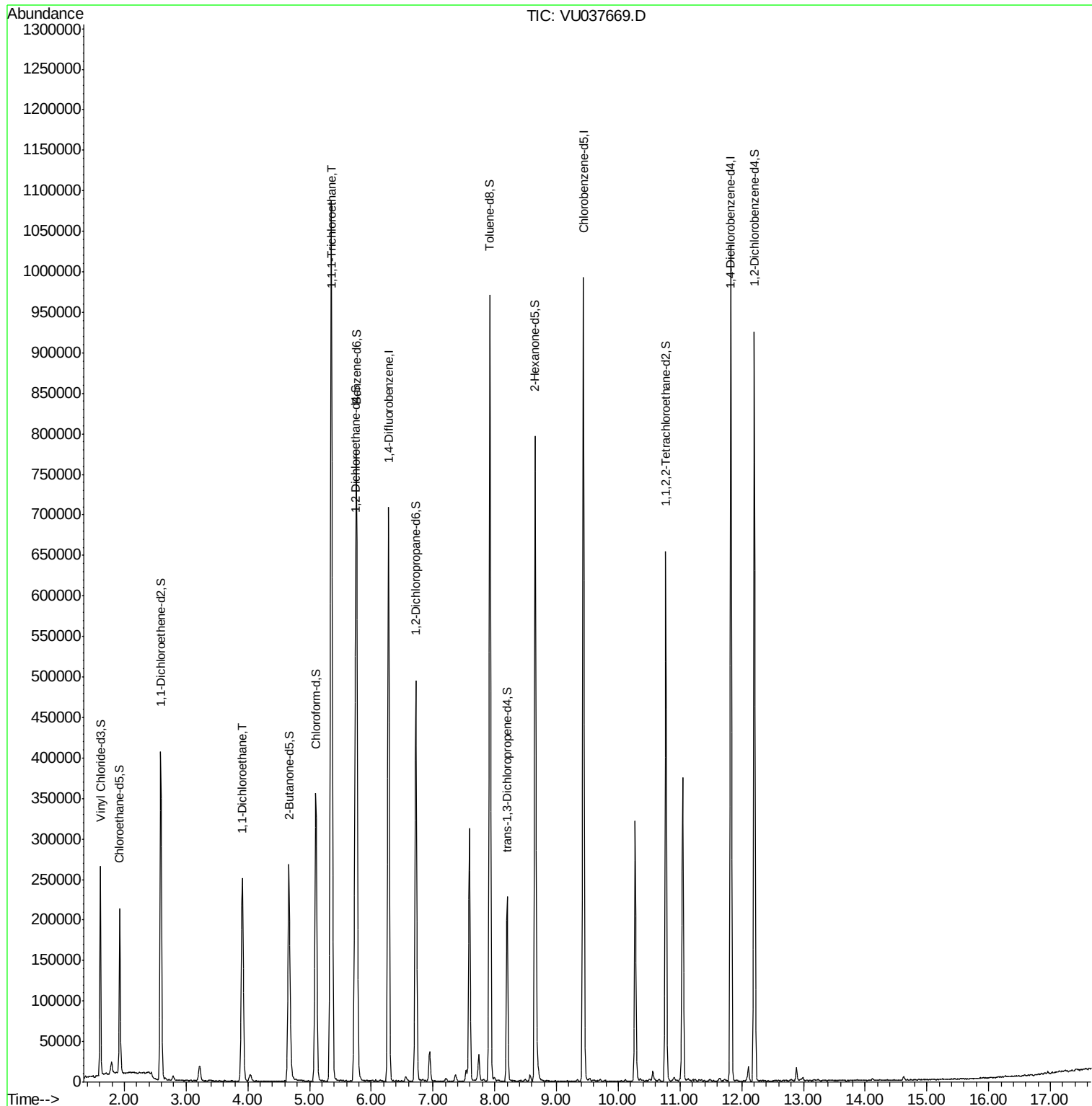
| Target Compounds          |      |    |        |              | Ovalue |
|---------------------------|------|----|--------|--------------|--------|
| 19) 1,1-Dichloroethane    | 3.91 | 63 | 296010 | 40.561 ug/L  | 99     |
| 30) 1,1,1-Trichloroethane | 5.35 | 97 | 783513 | 134.962 ug/L | 98     |

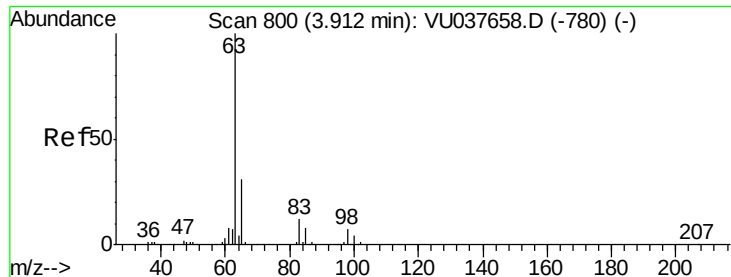
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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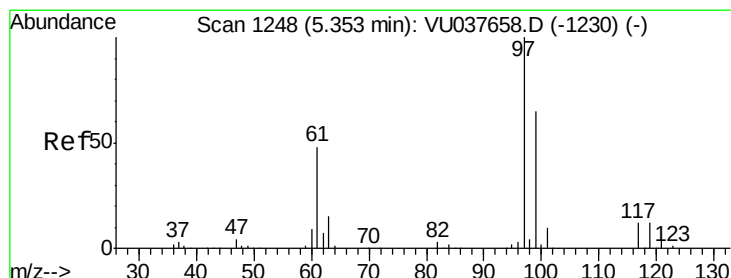
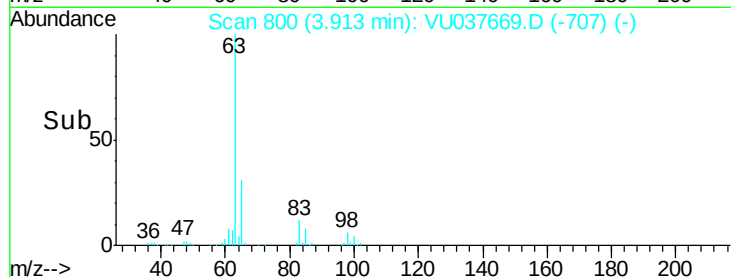
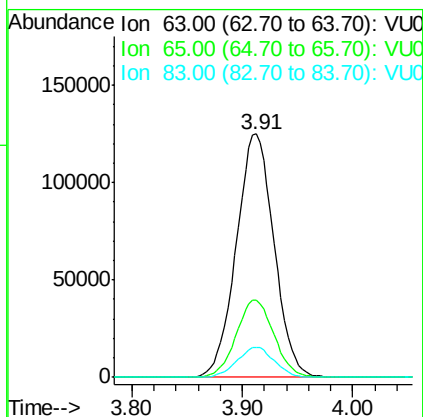
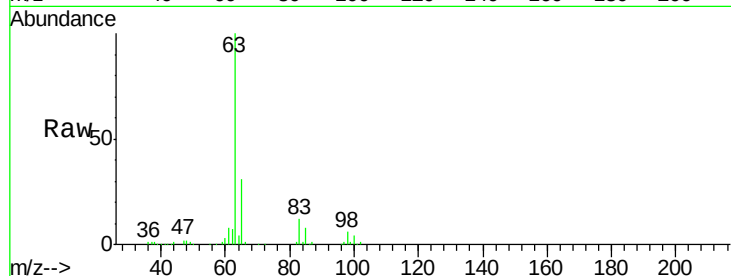




#19  
 1,1-Dichloroethane  
 Concen: 40.561 ug/L  
 RT: 3.91 min Scan# 800  
 Delta R.T. 0.00 min  
 Lab File: VU037669.D  
 Acq: 10 Apr 2020 13:46

Instrument :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.5  | 21.9  | 40.7  |
| 83      | 12.4  | 9.0   | 16.6  |



#30  
 1,1,1-Trichloroethane  
 Concen: 134.962 ug/L  
 RT: 5.35 min Scan# 1248  
 Delta R.T. 0.00 min  
 Lab File: VU037669.D  
 Acq: 10 Apr 2020 13:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 63.5  | 51.9  | 77.9  |
| 61      | 47.8  | 37.1  | 55.7  |

