

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\  
 Data File : VU025565.D  
 Acq On : 21 Jul 2018 00:18  
 Operator : MD/SY  
 Sample : J4097-18  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0AB5

Quant Time: Jul 21 03:44:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jul 21 02:53:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 312055   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 286130   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 130023   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 79220    | 44.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.94%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 67518    | 45.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 91.90%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 128383   | 34.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.24%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 141320   | 102.75   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.75% |
| 24) Chloroform-d               | 4.65    | 84    | 182303   | 45.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.88%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 126313   | 48.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.26%  |
| 32) Benzene-d6                 | 5.35    | 84    | 357259   | 48.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.36%  |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 116038   | 49.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.14%  |
| 41) Toluene-d8                 | 7.57    | 98    | 326823   | 46.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.88%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 53068    | 43.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.88%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 102988   | 104.02   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.02% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 158248   | 47.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.70%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 131137   | 49.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.52%  |

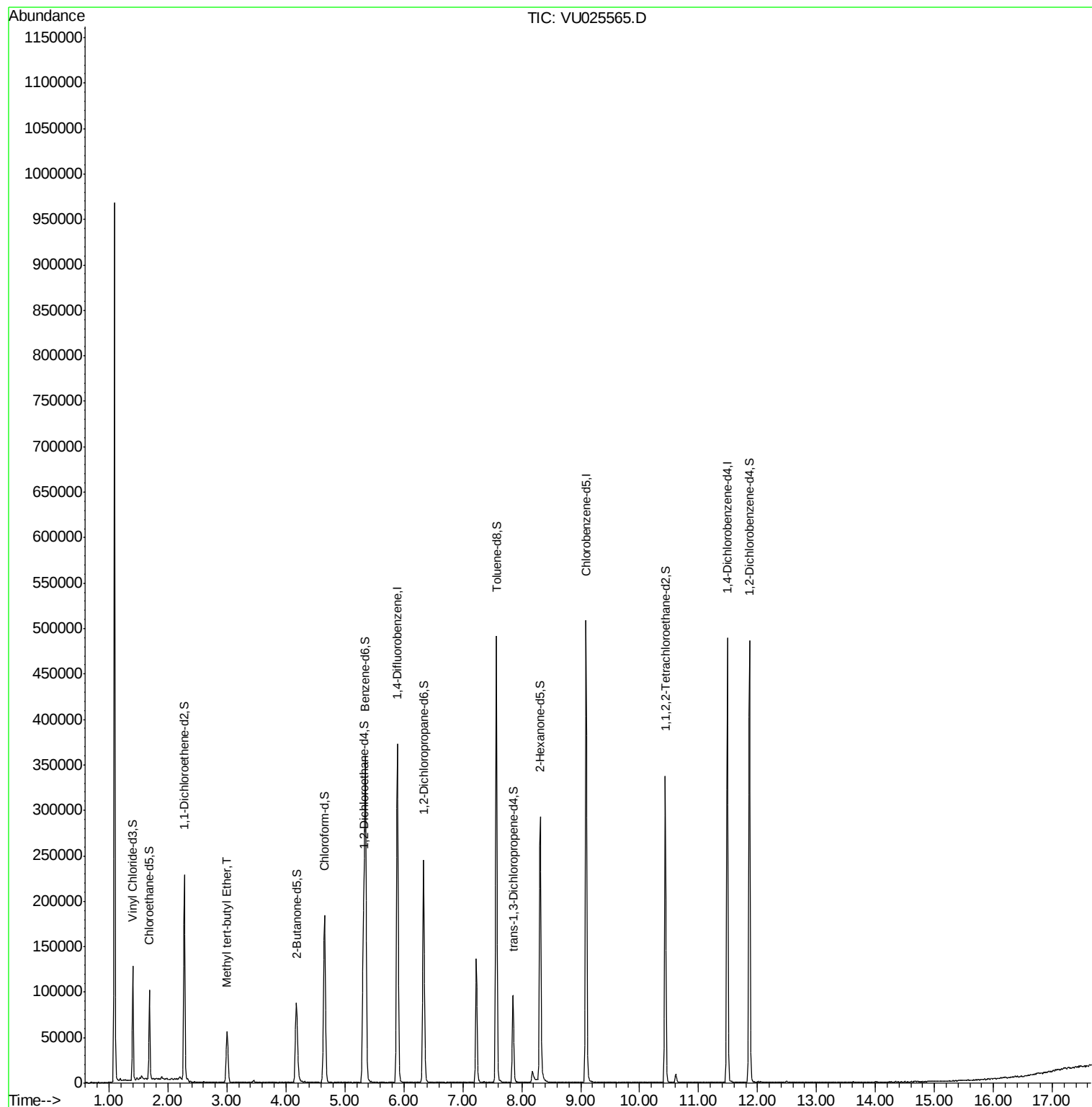
| Target Compounds            |      |    |       |           | Ovalue |
|-----------------------------|------|----|-------|-----------|--------|
| 18) Methyl tert-butyl Ether | 3.00 | 73 | 59150 | 8.96 ug/L | 99     |

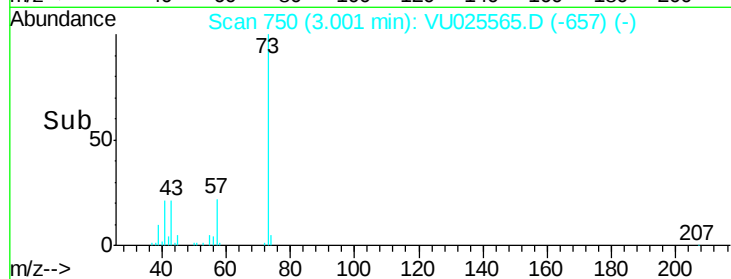
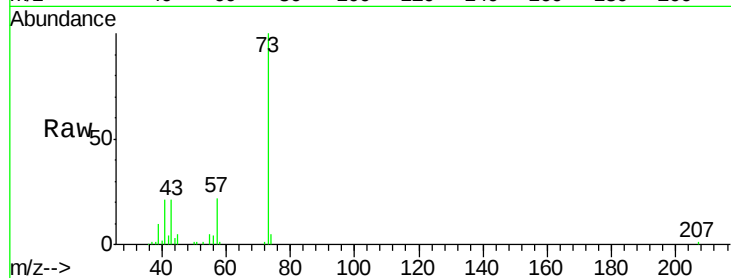
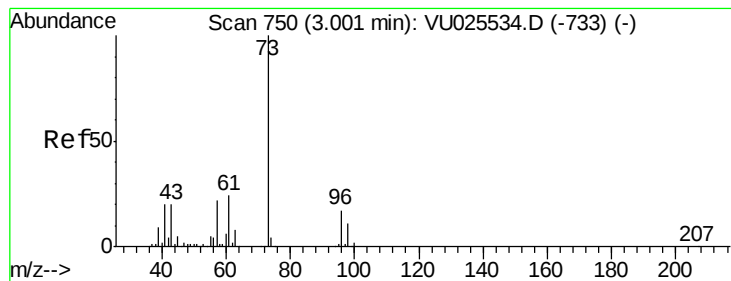
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#18  
Methvl tert-butvl Ether  
Concen: 8.96 ug/L  
RT: 3.00 min Scan# 750  
Delta R.T. -0.00 min  
Lab File: VU025565.D  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 20.9  | 16.2  | 24.2  |
| 57      | 21.5  | 17.1  | 25.7  |

