

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV030819\  
 Data File : VV009557.D  
 Acq On : 08 Mar 2019 23:22  
 Operator : SY/MD  
 Sample : K1818-02  
 Misc : 5.61G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0Q6

Quant Time: Mar 09 03:53:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Mar 09 01:24:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 141204   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 139209   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 63713    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 33226    | 19.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 78.20%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 50744    | 20.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.56%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 77562    | 17.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 70.16%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 34614    | 59.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 119.52% |
| 24) Chloroform-d               | 4.40   | 84    | 92240    | 27.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 109.68% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 59095    | 30.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 123.52% |
| 29) Benzene-d6                 | 5.10   | 84    | 182504   | 26.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 105.88% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 59624    | 29.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 117.20% |
| 37) Toluene-d8                 | 7.36   | 98    | 175693   | 26.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 104.56% |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 24299    | 24.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 98.56%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 29466    | 62.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 124.10% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 62441    | 28.80    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 115.20% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 65962    | 28.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 113.44% |

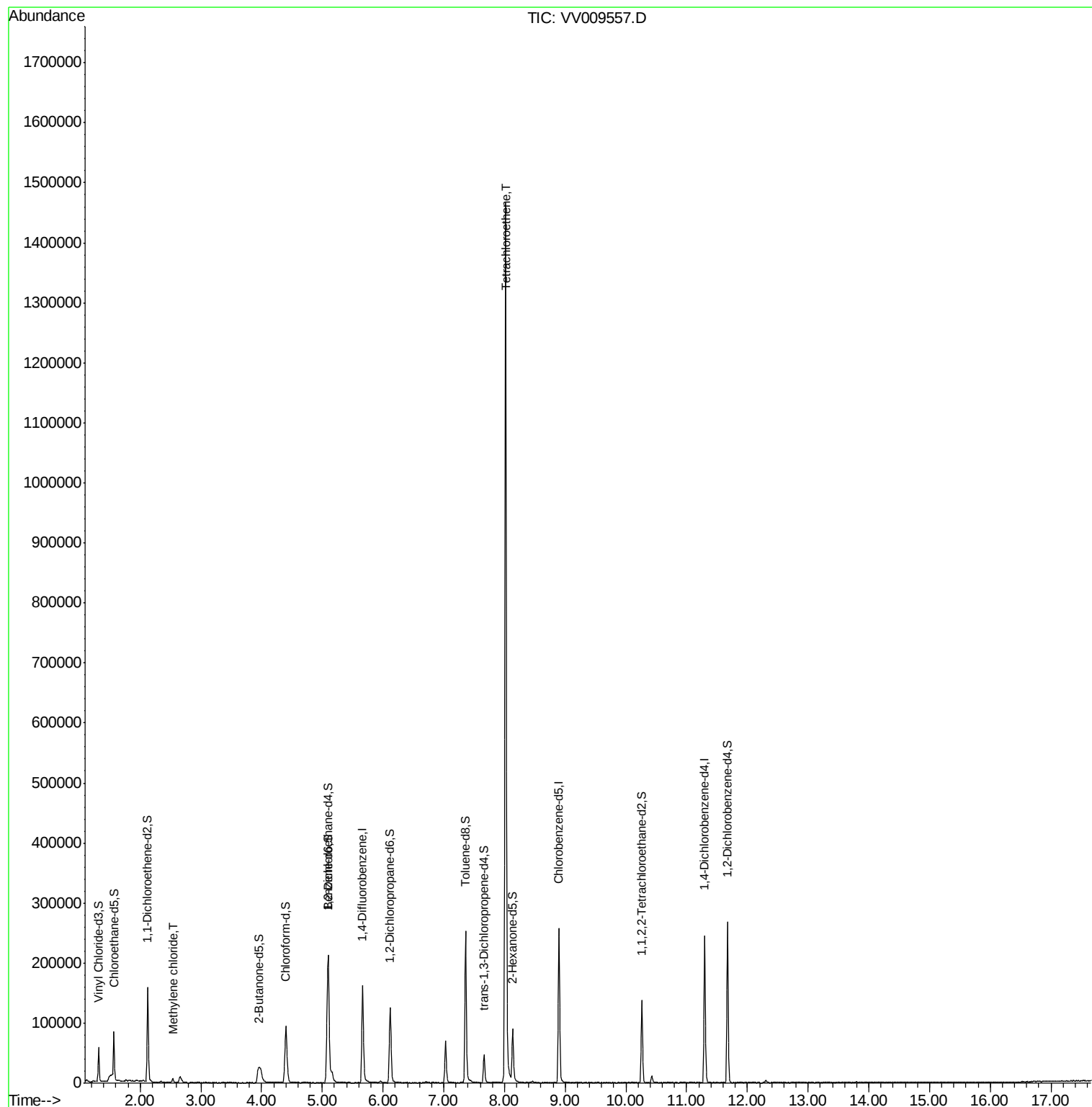
| Target Compounds       |      |     |        |              | Qvalue |
|------------------------|------|-----|--------|--------------|--------|
| 16) Methylene chloride | 2.53 | 84  | 2697   | 1.455 ug/L   | 87     |
| 47) Tetrachloroethene  | 8.02 | 164 | 300279 | 191.512 ug/L | 94     |

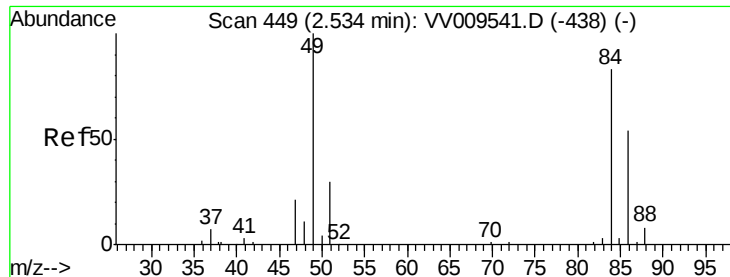
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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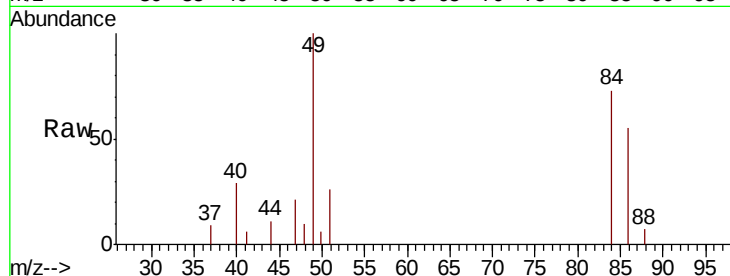




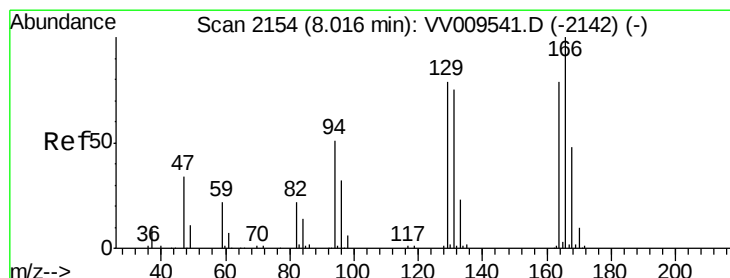
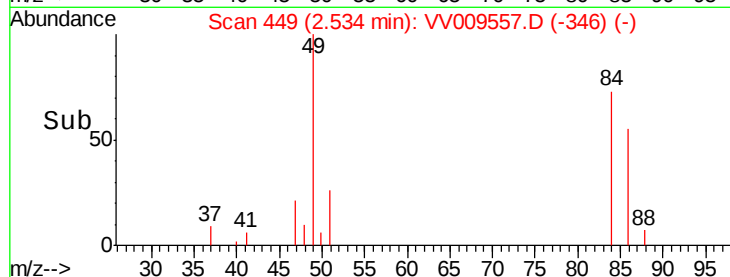
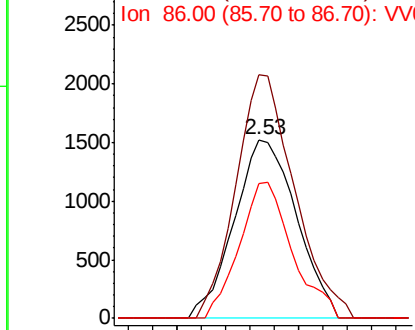
#16  
Methylene chloride  
Concen: 1.455 ug/L  
RT: 2.53 min Scan# 449  
Delta R.T. -0.00 min  
Lab File: VV009557.D  
Acq: 08 Mar 2019 23:22

Instrument :  
MSVOA\_V  
ClientSampled :  
BF0Q6

Tgt Ion: 84 Resp: 2697  
Ion Ratio Lower Upper  
84 100  
49 136.4 84.6 157.0  
86 75.2 46.1 85.7



Abundance Ion 84.00 (83.70 to 84.70): VV0  
Ion 49.00 (48.70 to 49.70): VV0  
Ion 86.00 (85.70 to 86.70): VV0



#47  
Tetrachloroethene  
Concen: 191.512 ug/L  
RT: 8.02 min Scan# 2155  
Delta R.T. 0.00 min  
Lab File: VV009557.D  
Acq: 08 Mar 2019 23:22

Tgt Ion: 164 Resp: 300279  
Ion Ratio Lower Upper  
164 100  
129 102.3 67.7 125.7  
131 97.3 67.5 125.3  
166 127.7 81.6 151.6

Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

