

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030719\  
 Data File : VV009532.D  
 Acq On : 07 Mar 2019 16:33  
 Operator : SY/MD  
 Sample : K1789-12  
 Misc : 5.89G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF2K6

Quant Time: Mar 08 10:38:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 08 03:01:51 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 163759   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 155065   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 67466    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 35816    | 18.17    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 72.68% |
| 7) Chloroethane-d5             | 1.58   | 69    | 37967    | 13.32    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 53.28% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 80454    | 15.68    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 62.72% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 22656    | 33.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 67.46% |
| 24) Chloroform-d               | 4.40   | 84    | 79245    | 20.31    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 81.24% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 50378    | 22.70    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 90.80% |
| 29) Benzene-d6                 | 5.10   | 84    | 176485   | 22.98    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 91.92% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 55145    | 24.33    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.32% |
| 37) Toluene-d8                 | 7.36   | 98    | 174624   | 23.32    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.28% |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 22578    | 20.56    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 82.24% |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 18865    | 35.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 71.34% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 47754    | 19.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 79.08% |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 59179    | 24.03    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.12% |

## Target Compounds

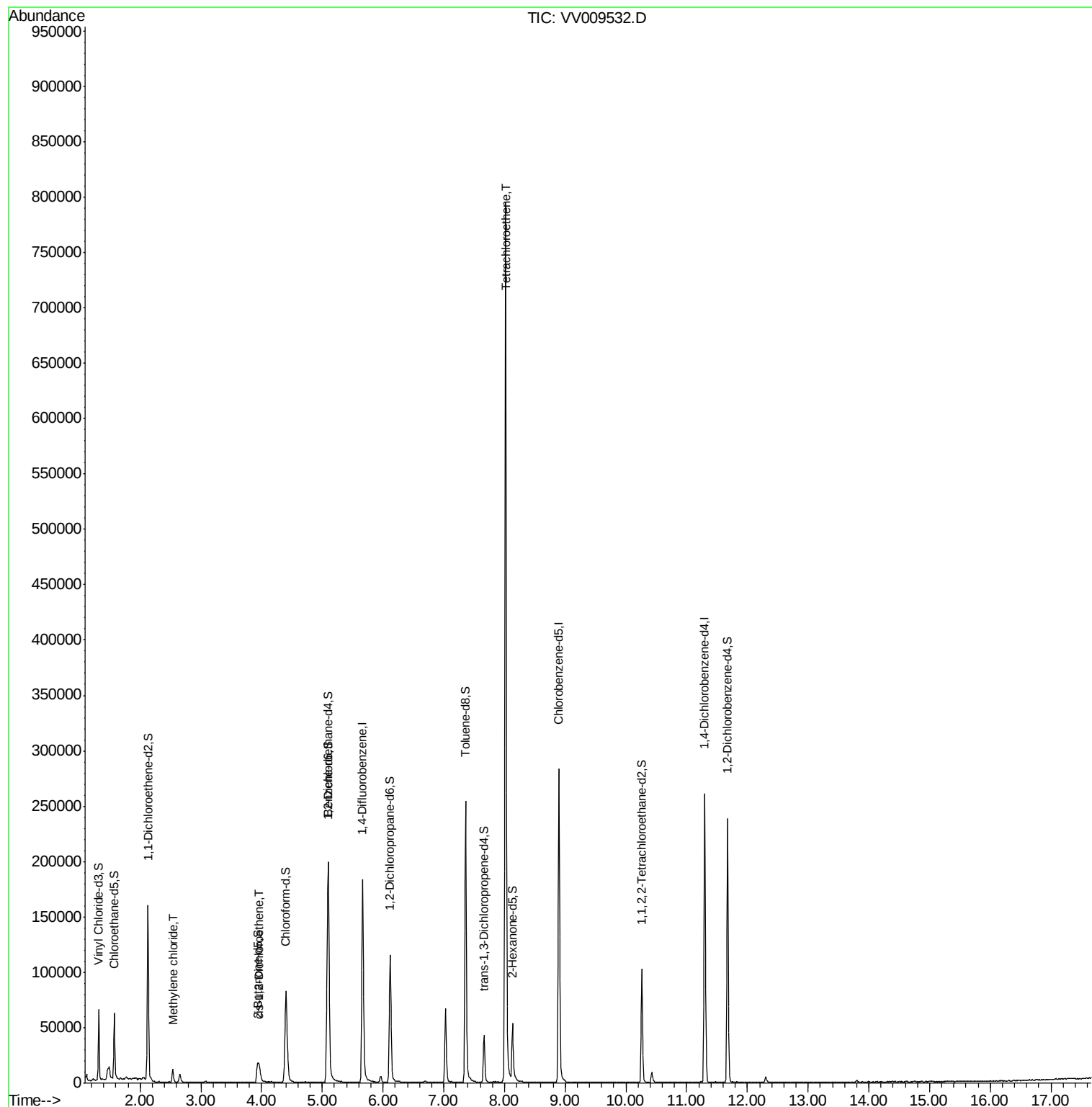
| Target Compounds           | R.T. | QIon | Response | Conc   | Units | Ovalue |
|----------------------------|------|------|----------|--------|-------|--------|
| 16) Methylene chloride     | 2.54 | 84   | 5020     | 2.336  | ug/L  | 93     |
| 22) cis-1,2-Dichloroethene | 3.97 | 96   | 3570     | 1.617  | ug/L  | 88     |
| 47) Tetrachloroethene      | 8.02 | 164  | 161340   | 92.378 | ug/L  | 95     |

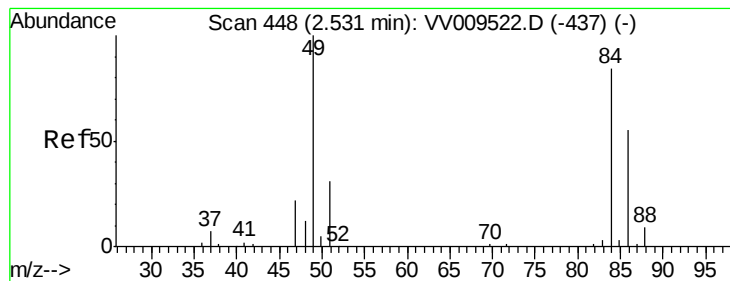
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Mar 08 03:01:51 2019  
Response via : Initial Calibration





#16

Methvlene chloride

Concen: 2.336 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.01 min

Lab File: VV009532.D

Acq: 07 Mar 2019 16:33

Instrument :

MSVOA\_V

ClientSampleId :

BF2K6

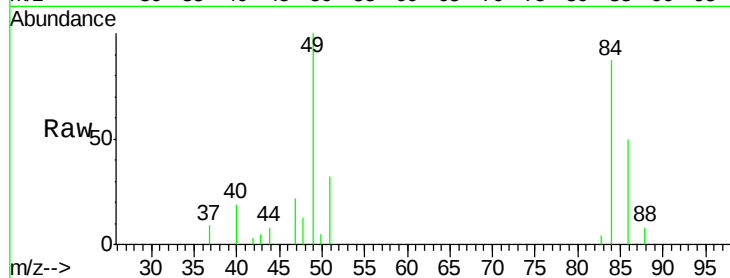
Tot Ion: 84 Resp: 5020

Ion Ratio Lower Upper

84 100

49 115.4 84.6 157.0

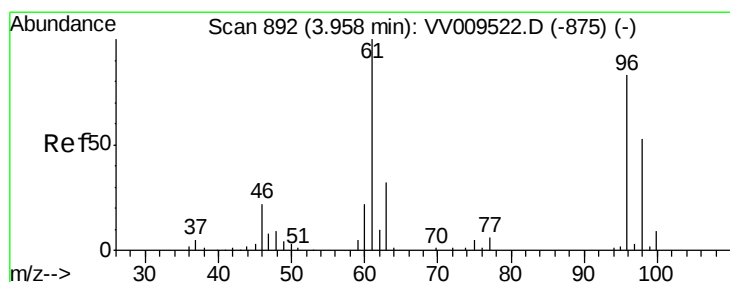
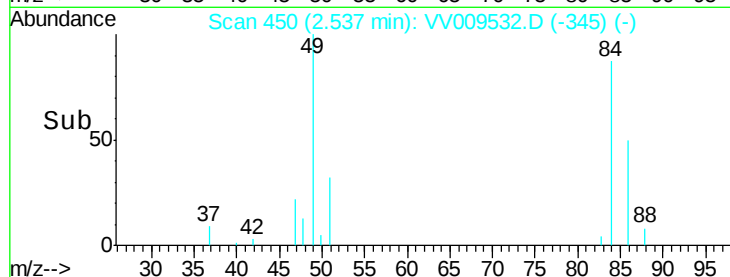
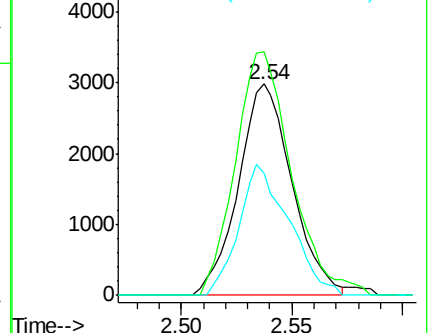
86 57.9 46.1 85.7



Abundance Ion 84.00 (83.70 to 84.70): VV009532.D (-437) (-)

Ion 49.00 (48.70 to 49.70): VV009532.D (-437) (-)

Ion 86.00 (85.70 to 86.70): VV009532.D (-437) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.617 ug/L

RT: 3.97 min Scan# 895

Delta R.T. 0.01 min

Lab File: VV009532.D

Acq: 07 Mar 2019 16:33

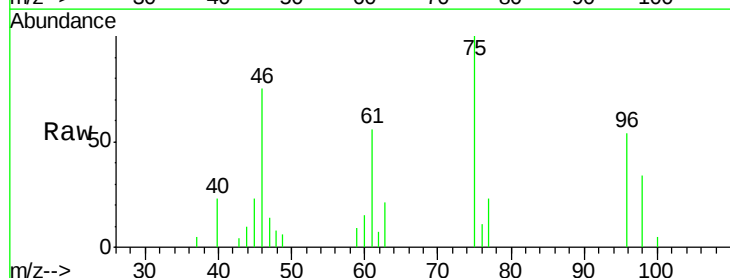
Tgt Ion: 96 Resp: 3570

Ion Ratio Lower Upper

96 100

61 104.5 87.2 161.9

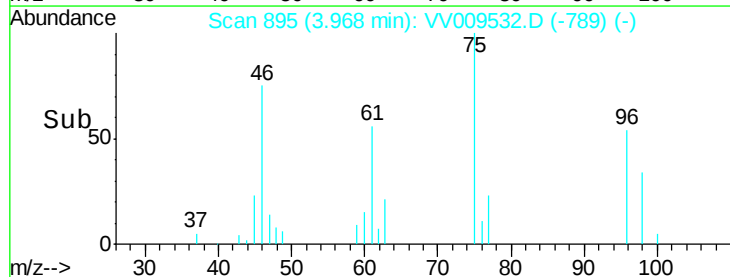
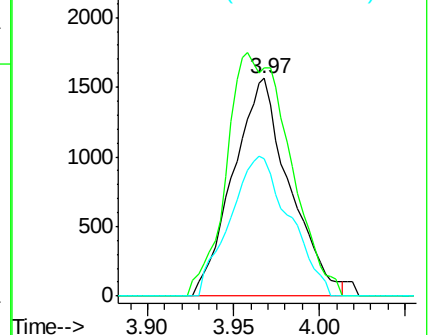
98 62.9 44.6 82.8

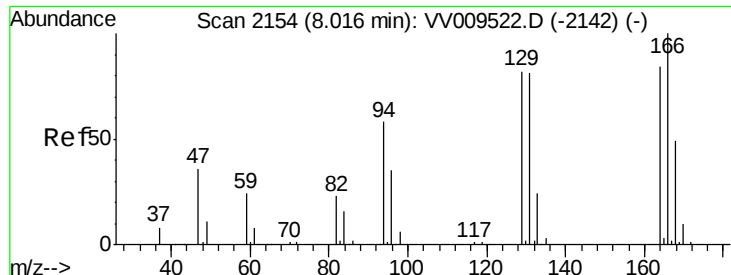


Abundance Ion 96.00 (95.70 to 96.70): VV009532.D (-875) (-)

Ion 61.00 (60.70 to 61.70): VV009532.D (-875) (-)

Ion 98.00 (97.70 to 98.70): VV009532.D (-875) (-)





#47

Tetrachloroethene

Concen: 92.378 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009532.D

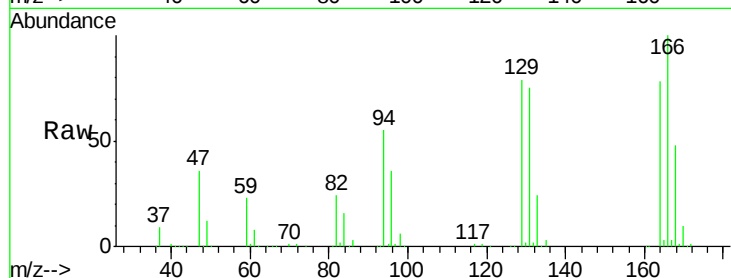
Acq: 07 Mar 2019 16:33

Instrument :

MSVOA\_V

ClientSampleId :

BF2K6



Tot Ion:164 Resp: 161340

Ion Ratio Lower Upper

164 100

129 101.0 67.7 125.7

131 96.1 67.5 125.3

166 128.4 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

