

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW072118\  
 Data File : VW004112.D  
 Acq On : 21 Jul 2018 14:06  
 Operator : SY/AP  
 Sample : J4037-13  
 Misc : 6.19G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BEY55

Quant Time: Jul 23 00:04:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071818S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jul 21 06:22:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 319059   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.64 | 117  | 313701   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 144438   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 54982    | 17.42    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 69.68% |
| 7) Chloroethane-d5             | 2.89   | 69    | 40740    | 17.91    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 71.64% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 96693    | 12.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 51.08% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 84116    | 45.45    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.90% |
| 24) Chloroform-d               | 7.65   | 84    | 159518   | 21.06    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 84.24% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 103900   | 22.78    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 91.12% |
| 29) Benzene-d6                 | 8.28   | 84    | 277650   | 19.08    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 76.32% |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 102463   | 21.11    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 84.44% |
| 37) Toluene-d8                 | 10.33  | 98    | 236317   | 18.07    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 72.28% |
| 38) trans-1,3-Dichloropropene- | 10.59  | 79    | 41763    | 19.58    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 78.32% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 55750    | 42.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 85.36% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70  | 84    | 117642   | 22.13    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 88.52% |
| 61) 1,2-Dichlorobenzene-d4     | 13.87  | 152   | 99771    | 21.48    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 85.92% |

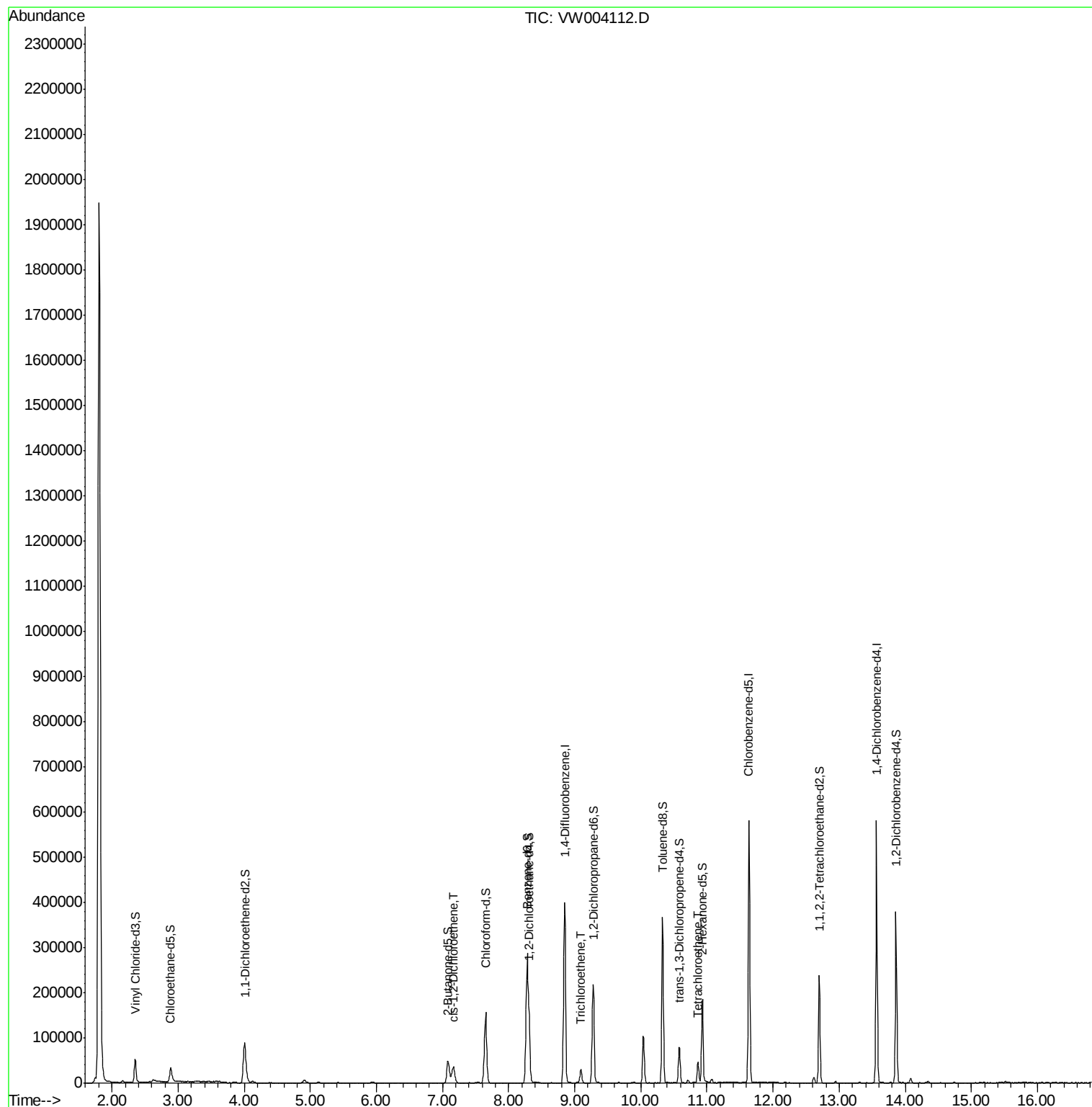
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 22) cis-1,2-Dichloroethene | 7.17  | 96   | 15847    | 3.391 | ug/L  | 99     |
| 35) Trichloroethene        | 9.10  | 95   | 10307    | 2.003 | ug/L  | 98     |
| 47) Tetrachloroethene      | 10.87 | 164  | 9289     | 2.239 | ug/L  | 89     |

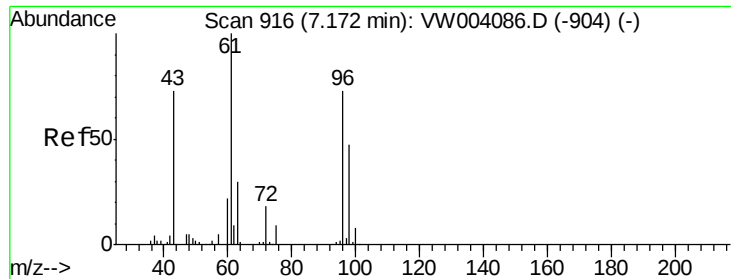
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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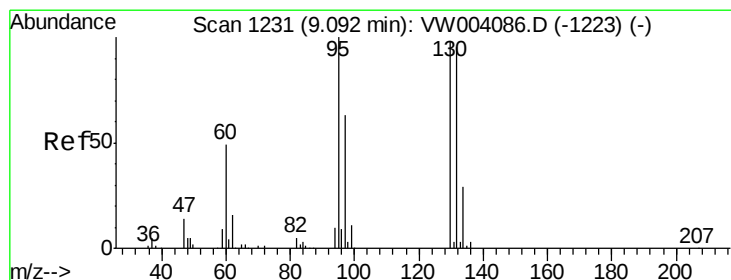
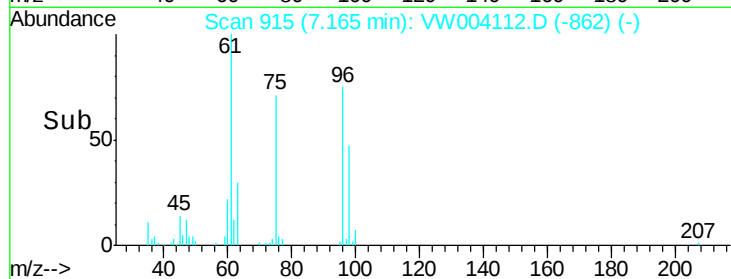
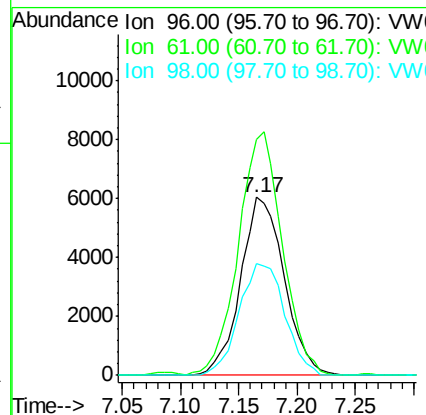
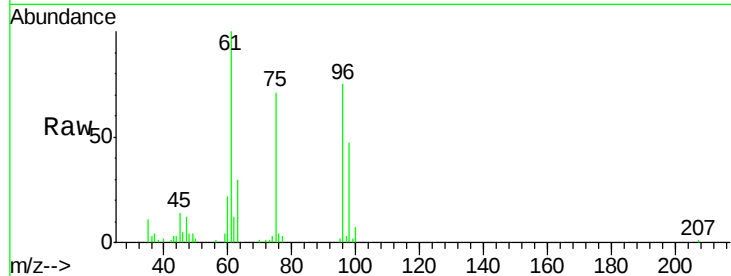


#22

cis-1,2-Dichloroethene  
Concen: 3.391 ug/L  
RT: 7.17 min Scan# 915  
Delta R.T. -0.01 min  
Lab File: VW004112.D  
Acq: 21 Jul 2018 14:06

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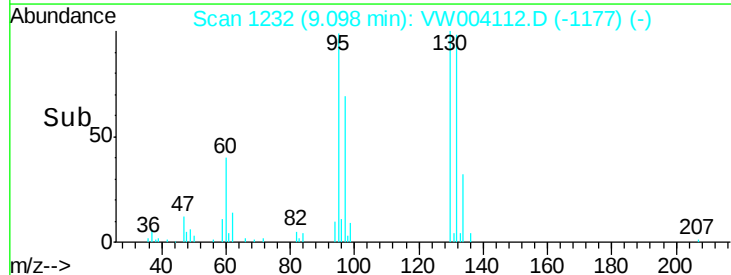
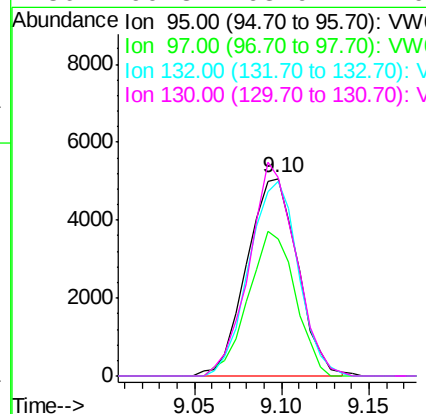
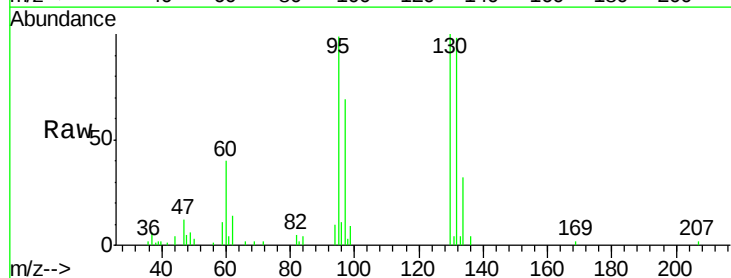
Tgt Ion: 96 Resp: 15847  
Ion Ratio Lower Upper  
96 100  
61 132.6 92.5 171.9  
98 62.7 43.0 80.0

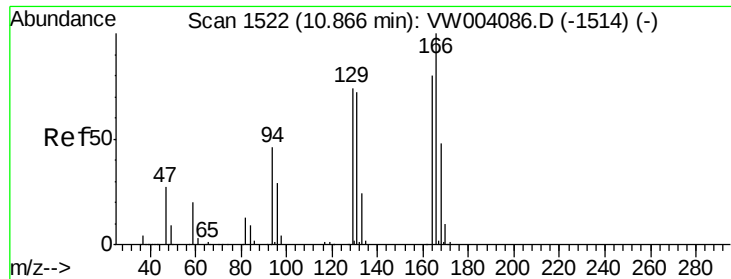


#35

Trichloroethene  
Concen: 2.003 ug/L  
RT: 9.10 min Scan# 1232  
Delta R.T. 0.01 min  
Lab File: VW004112.D  
Acq: 21 Jul 2018 14:06

Tgt Ion: 95 Resp: 10307  
Ion Ratio Lower Upper  
95 100  
97 67.6 44.7 83.1  
132 95.1 66.1 122.7  
130 99.3 68.9 127.9





#47

Tetrachloroethene

Concen: 2.239 ug/L

RT: 10.87 min Scan# 1522

Delta R.T. -0.00 min

Lab File: VW004112.D

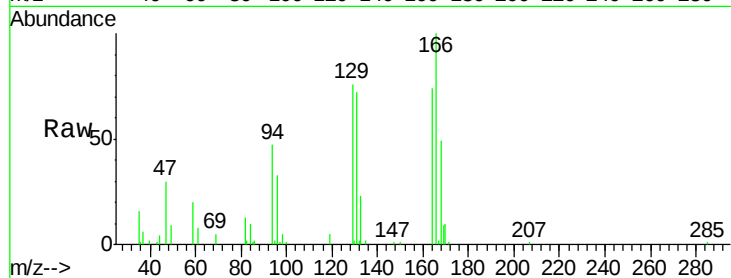
Acq: 21 Jul 2018 14:06

Instrument :

MSVOA\_W

ClientSampleId :

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Tgt Ion:164 Resp: 9289

Ion Ratio Lower Upper

164 100

129 102.2 63.1 117.3

131 97.4 62.8 116.6

166 134.4 84.6 157.2

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

