

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031819\  
 Data File : VV009751.D  
 Acq On : 18 Mar 2019 12:09  
 Operator : SY/MD  
 Sample : K1949-16  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF1B7

Quant Time: Mar 19 04:29:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 18 12:32:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 146590   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 139665   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 53239    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 33370    | 33.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 67.52%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 29523    | 40.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 80.98%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 57724    | 27.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 54.86%# |
| 21) 2-Butanone-d5              | 3.93    | 46    | 56742    | 96.38    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 96.38%  |
| 24) Chloroform-d               | 4.40    | 84    | 72670    | 40.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 47003    | 42.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.30%  |
| 32) Benzene-d6                 | 5.10    | 84    | 152056   | 41.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.32%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 47814    | 43.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 86.06%  |
| 41) Toluene-d8                 | 7.36    | 98    | 139779   | 39.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 79.60%# |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 21462    | 40.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.70%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 41077    | 90.83    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 90.83%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 73846    | 43.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.62%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 47647    | 44.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.46%  |

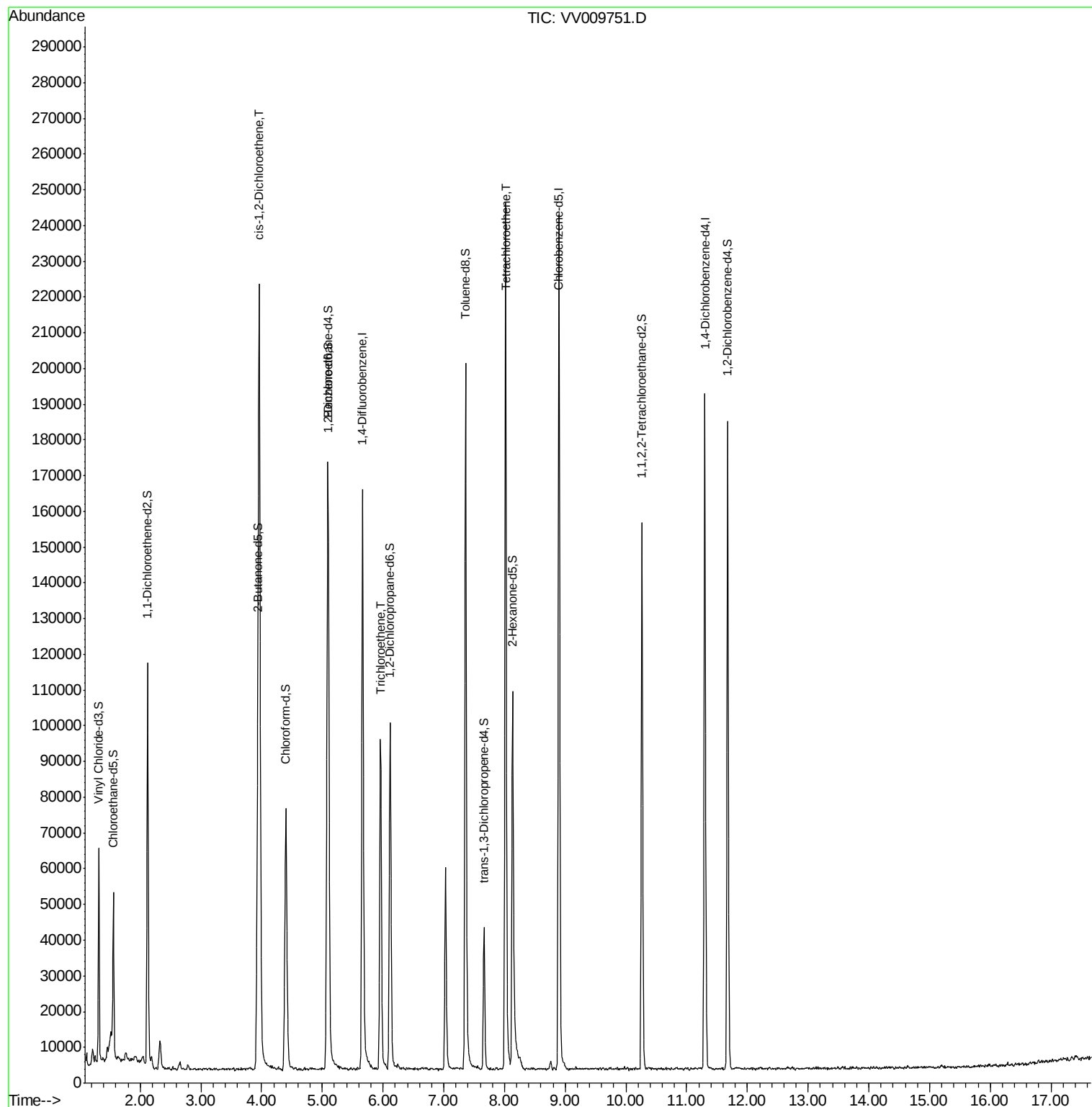
| Target Compounds           |      |     |        |         | Ovalue  |
|----------------------------|------|-----|--------|---------|---------|
| 20) cis-1,2-Dichloroethene | 3.96 | 96  | 123760 | 115.483 | ug/L 96 |
| 34) Trichloroethene        | 5.96 | 95  | 31632  | 31.835  | ug/L 95 |
| 46) Tetrachloroethene      | 8.02 | 164 | 54281  | 65.443  | ug/L 98 |

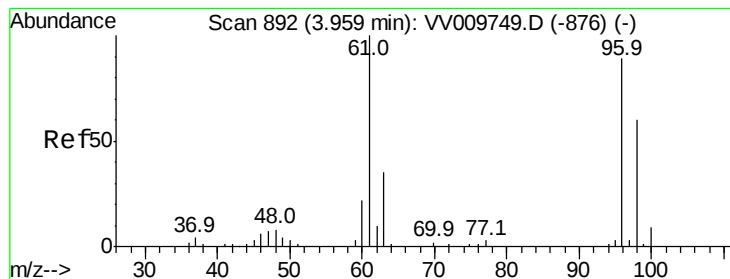
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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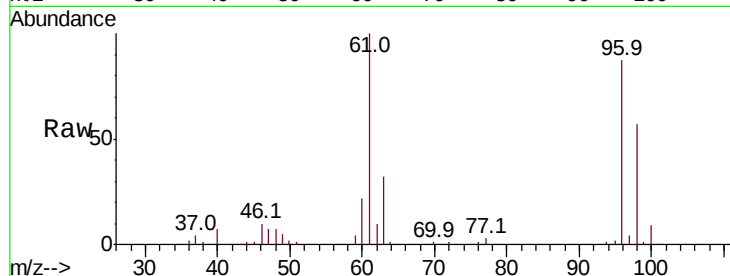


#20

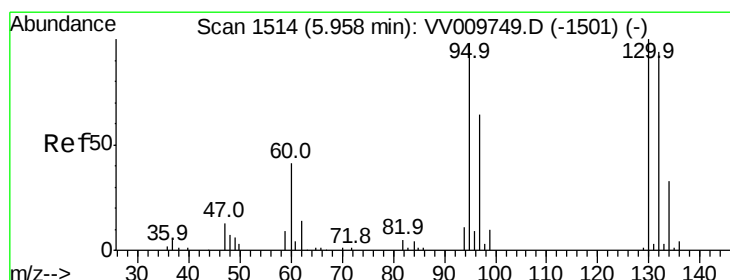
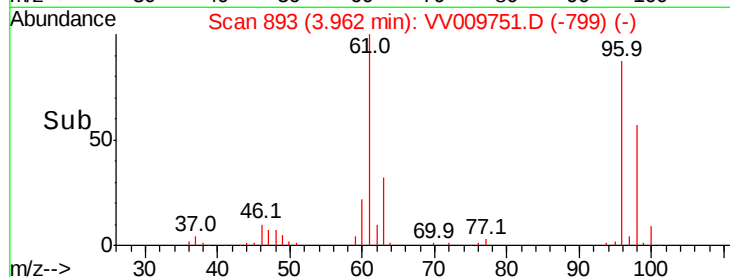
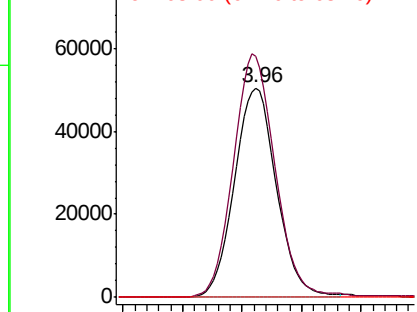
cis-1,2-Dichloroethene  
 Concen: 115.483 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. 0.00 min  
 Lab File: VV009751.D  
 Acq: 18 Mar 2019 12:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF1B7

Tot Ion: 96 Resp: 123760  
 Ion Ratio Lower Upper  
 96 100  
 61 115.2 77.5 143.9  
 68 0.0 0.0 0.0



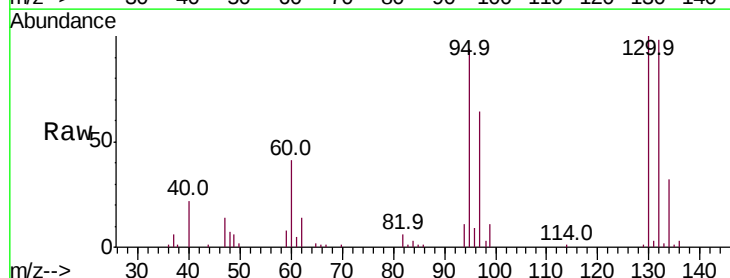
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.00 (60.70 to 61.70): VV0  
 Ion 68.00 (67.70 to 68.70): VV0



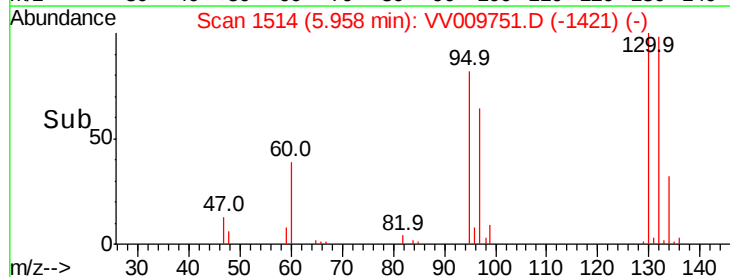
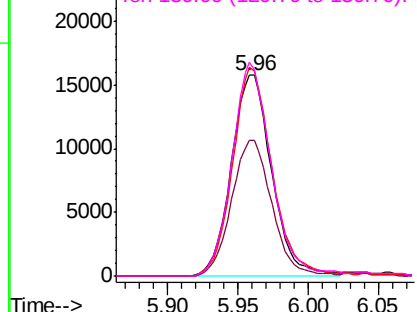
#34

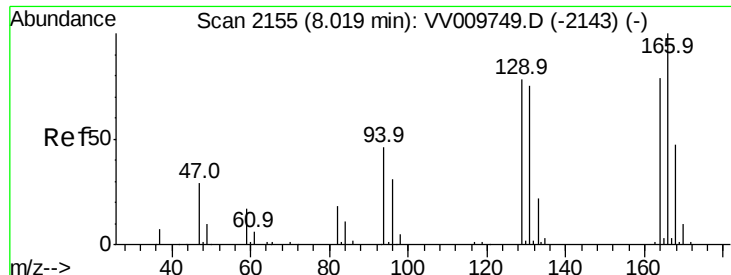
Trichloroethene  
 Concen: 31.835 ug/L  
 RT: 5.96 min Scan# 1514  
 Delta R.T. -0.00 min  
 Lab File: VV009751.D  
 Acq: 18 Mar 2019 12:09

Tgt Ion: 95 Resp: 31632  
 Ion Ratio Lower Upper  
 95 100  
 97 67.7 45.1 83.9  
 132 104.0 68.0 126.2  
 130 106.4 71.3 132.3



Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0





#46

Tetrachloroethene

Concen: 65.443 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV009751.D

Acq: 18 Mar 2019 12:09

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF1B7

Tot Ion:164 Resp: 54281

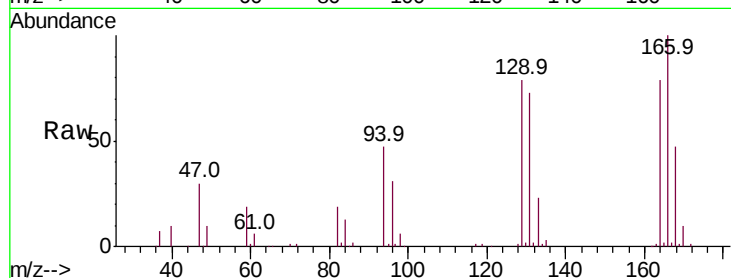
Ion Ratio Lower Upper

164 100

129 99.3 70.0 130.0

131 92.6 67.5 125.4

166 126.2 88.0 163.4



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

