

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032219\  
 Data File : VW009342.D  
 Acq On : 22 Mar 2019 12:13  
 Operator : SY/VA  
 Sample : K2048-03  
 Misc : 5.59G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF0F4

Quant Time: Mar 24 14:27:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Mar 23 00:14:14 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 427617   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 409703   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 188794   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 116413   | 22.78    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 91.12% |
| 7) Chloroethane-d5             | 2.89   | 69    | 114673   | 19.18    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 76.72% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 185056   | 16.76    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 67.04% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 68779    | 32.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 65.10% |
| 24) Chloroform-d               | 7.65   | 84    | 267291   | 22.90    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 91.60% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 148827   | 21.17    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 84.68% |
| 29) Benzene-d6                 | 8.27   | 84    | 492543   | 21.80    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 87.20% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 149956   | 22.10    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 88.40% |
| 37) Toluene-d8                 | 10.32  | 98    | 440595   | 21.09    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 84.36% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 64375    | 18.89    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 75.56% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 49657    | 30.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 60.42% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 122771   | 18.37    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 73.48% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 162985   | 22.51    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 90.04% |

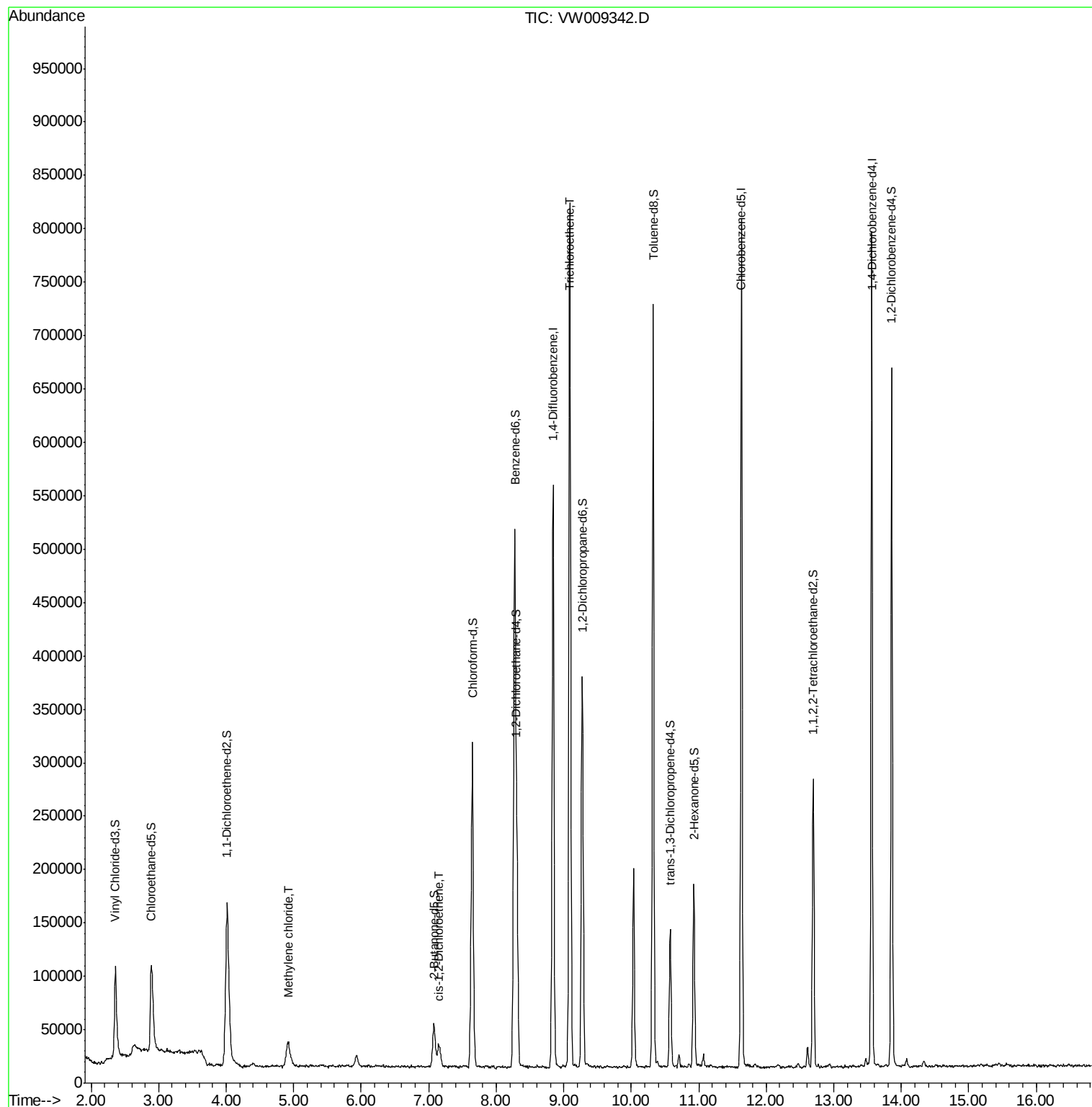
| Target Compounds           |      |    |        |             | Ovalue |
|----------------------------|------|----|--------|-------------|--------|
| 16) Methylene chloride     | 4.92 | 84 | 19728  | 3.164 ug/L  | 87     |
| 22) cis-1,2-Dichloroethene | 7.16 | 96 | 4546   | 0.758 ug/L  | 93     |
| 35) Trichloroethene        | 9.09 | 95 | 256541 | 42.933 ug/L | 98     |

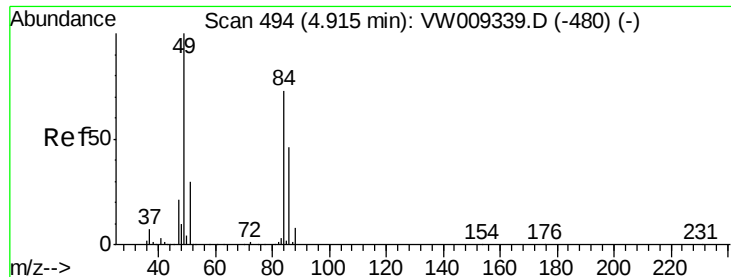
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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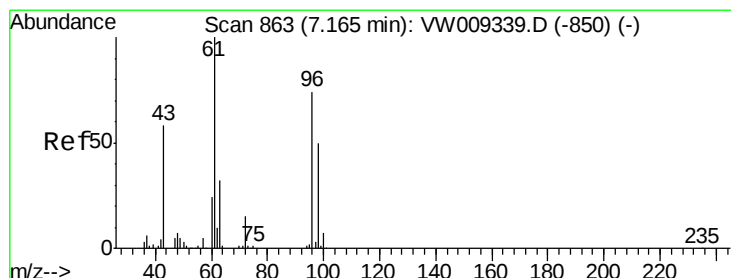
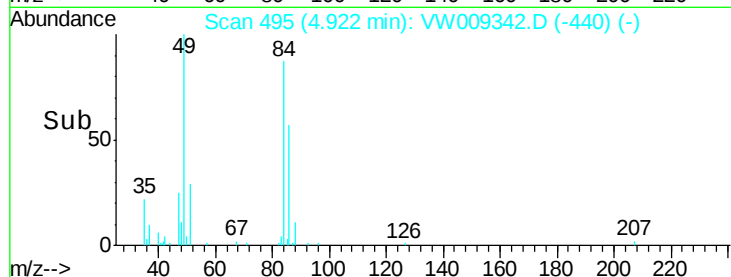
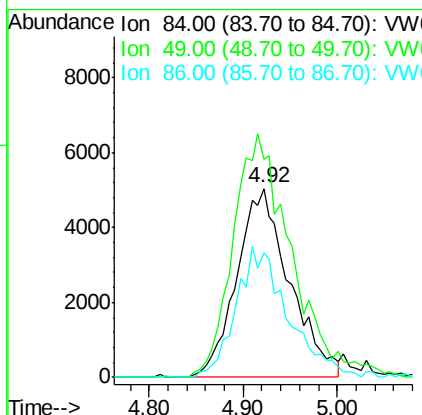
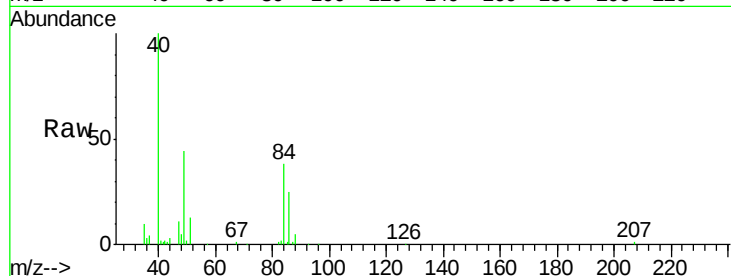




#16  
Methvlene chloride  
Concen: 3.164 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW009342.D  
Acq: 22 Mar 2019 12:13

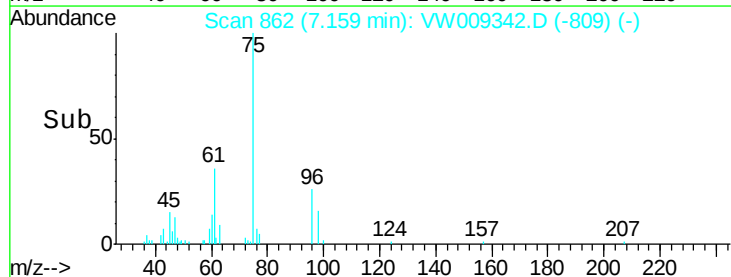
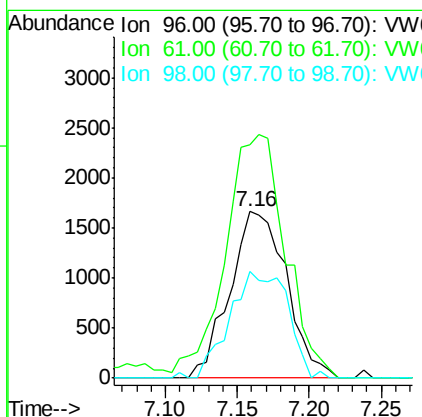
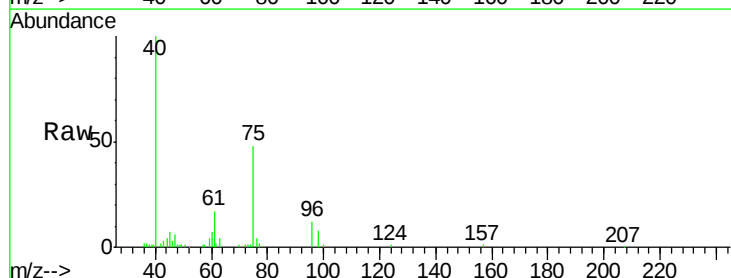
Instrument :  
MSVOA\_W  
ClientSampled :  
BF0F4

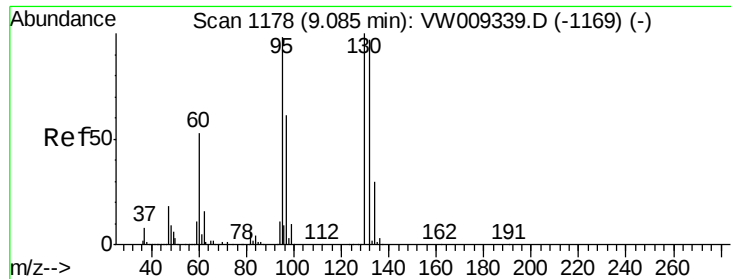
Tot Ion: 84 Resp: 19728  
Ion Ratio Lower Upper  
84 100  
49 115.5 96.0 178.2  
86 66.3 44.4 82.5



#22  
cis-1,2-Dichloroethene  
Concen: 0.758 ug/L  
RT: 7.16 min Scan# 862  
Delta R.T. -0.01 min  
Lab File: VW009342.D  
Acq: 22 Mar 2019 12:13

Tgt Ion: 96 Resp: 4546  
Ion Ratio Lower Upper  
96 100  
61 140.2 90.6 168.3  
98 63.7 44.0 81.8





#35  
 Trichloroethene  
 Concen: 42.933 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. 0.01 min  
 Lab File: VW009342.D  
 Acq: 22 Mar 2019 12:13

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 256541 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 63.7  | 44.7  | 82.9   |
| 132      | 97.1  | 69.0  | 128.2  |
| 130      | 101.3 | 72.7  | 134.9  |

