

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072018\  
 Data File : VW004081.D  
 Acq On : 20 Jul 2018 17:09  
 Operator : SY/AP  
 Sample : J4037-09  
 Misc : 6.18G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 21 04:57:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM071818S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jul 21 04:54:15 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 291412   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 285786   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 123424   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 56936    | 19.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 79.00%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 43043    | 20.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.88%  |
| 10) 1,1-Dichloroethene-d2      | 4.14   | 63    | 206      | 0.03     | ug/L | 0.13    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 0.12%#  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 81635    | 48.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 96.60%  |
| 24) Chloroform-d               | 7.65   | 84    | 164317   | 23.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.04%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 104518   | 25.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 100.36% |
| 29) Benzene-d6                 | 8.28   | 84    | 282139   | 21.29    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 85.16%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 103446   | 23.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.60%  |
| 37) Toluene-d8                 | 10.33  | 98    | 242134   | 20.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 81.32%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 42096    | 21.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 86.68%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 58684    | 49.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 98.62%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70  | 84    | 120660   | 24.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 99.64%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 100348   | 25.28    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.12% |

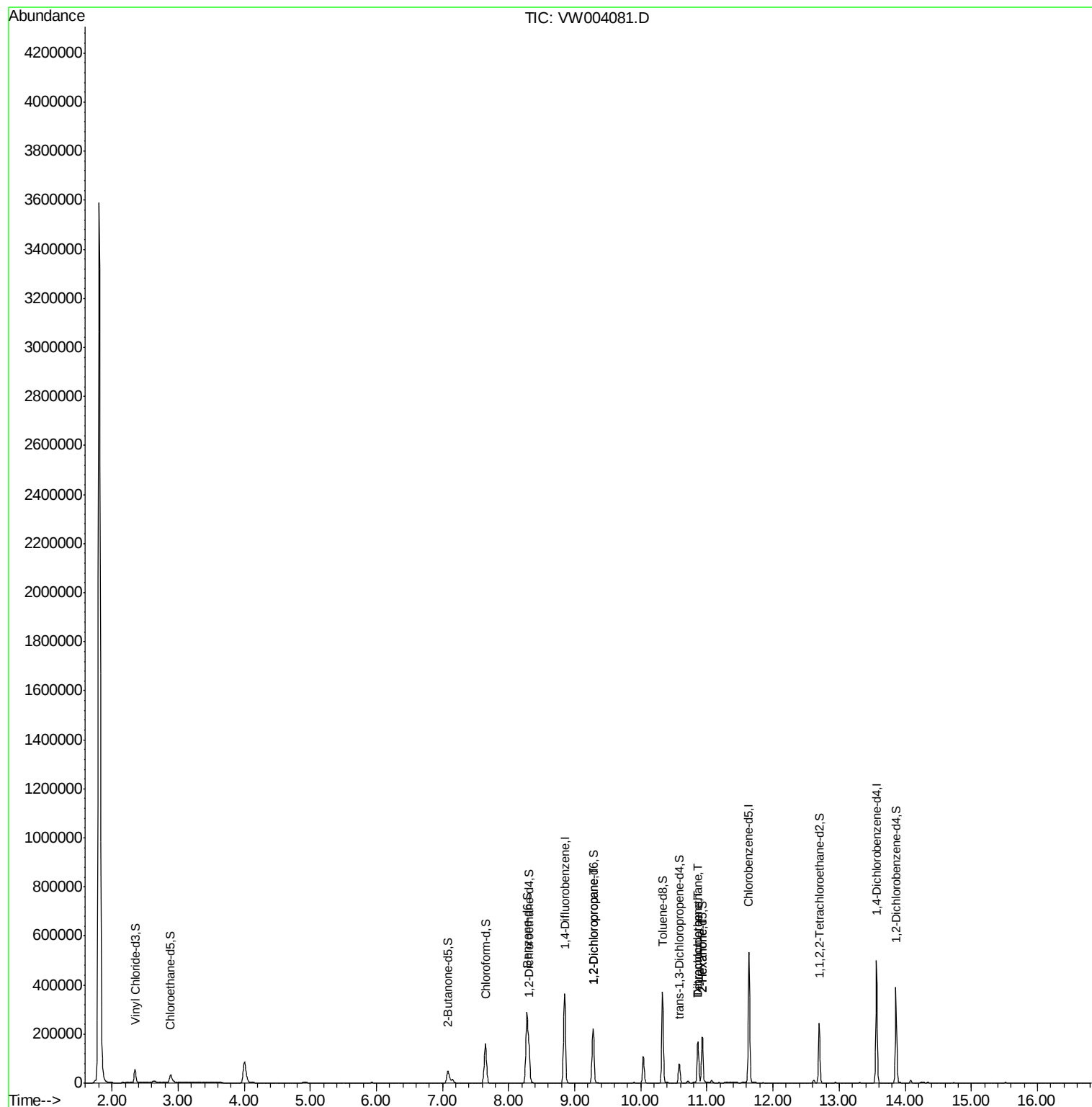
| Target Compounds         |       |     |       |              | Ovalue |
|--------------------------|-------|-----|-------|--------------|--------|
| 40) 1,2-Dichloropropane  | 9.27  | 63  | 11823 | 2.490 ug/L # | 91     |
| 47) Tetrachloroethene    | 10.87 | 164 | 37487 | 9.917 ug/L   | 98     |
| 49) 2-Hexanone           | 10.93 | 43  | 9387  | 2.904 ug/L # | 70     |
| 50) Dibromochloromethane | 10.87 | 129 | 34879 | 8.436 ug/L # | 9      |

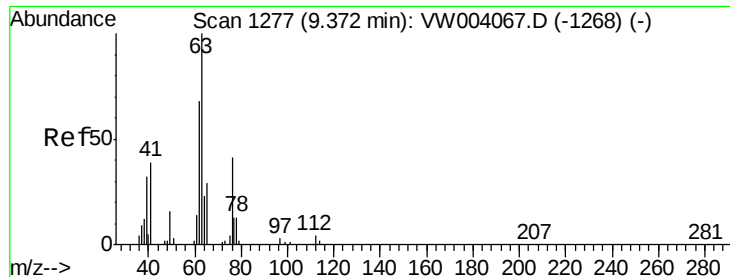
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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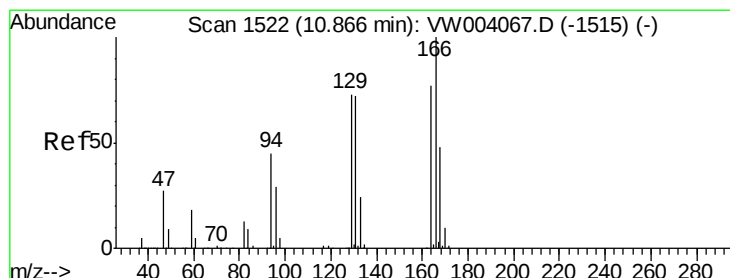
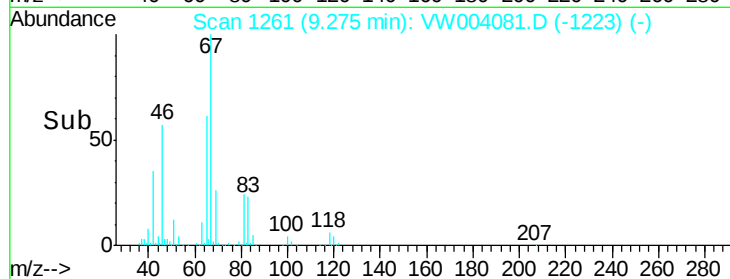
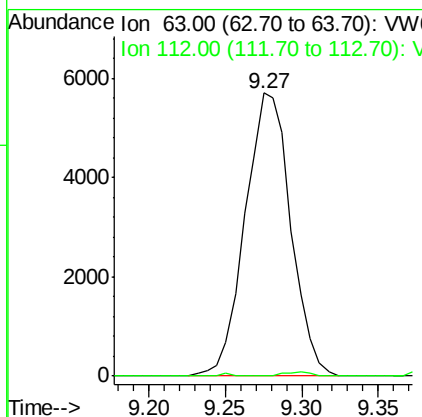
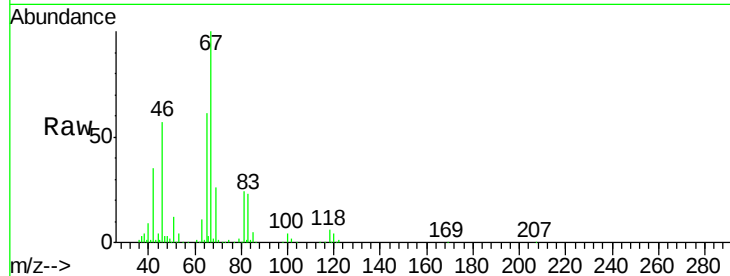




#40  
 1,2-Dichloropropane  
 Concen: 2.490 ug/L  
 RT: 9.27 min Scan# 1261  
 Delta R.T. -0.10 min  
 Lab File: VW004081.D  
 Acq: 20 Jul 2018 17:09

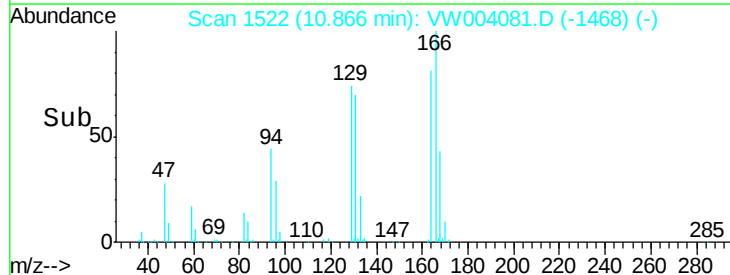
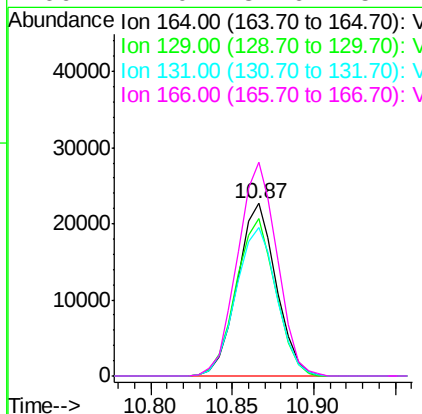
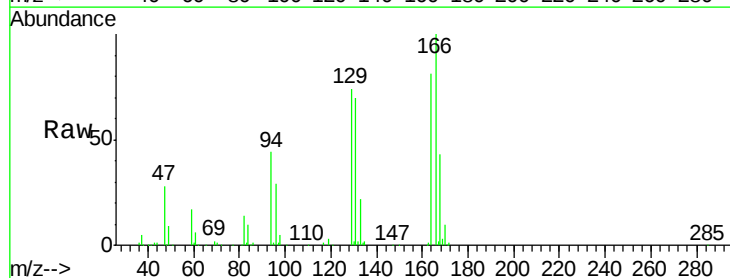
Instrument :  
 MSVOA\_W  
 ClientSampleId :

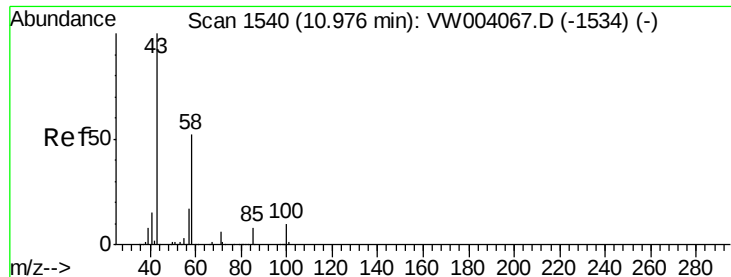
Tot Ion: 63 Resp: 11823  
 Ion Ratio Lower Upper  
 63 100  
 112 0.8 3.0 4.4#



#47  
 Tetrachloroethene  
 Concen: 9.917 ug/L  
 RT: 10.87 min Scan# 1522  
 Delta R.T. 0.00 min  
 Lab File: VW004081.D  
 Acq: 20 Jul 2018 17:09

Tgt Ion:164 Resp: 37487  
 Ion Ratio Lower Upper  
 164 100  
 129 91.2 63.1 117.3  
 131 86.6 62.8 116.6  
 166 124.0 84.6 157.2

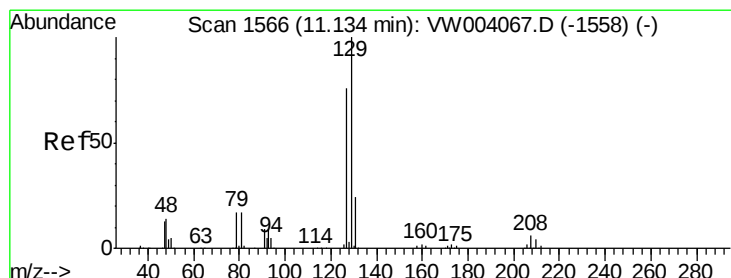
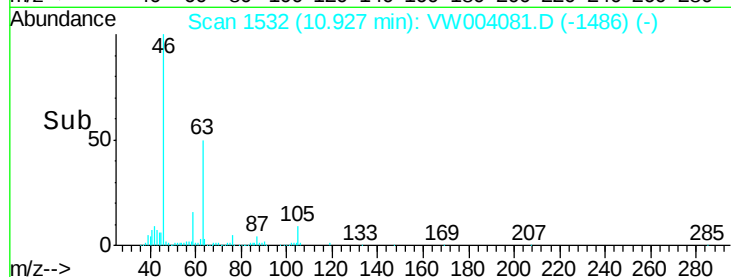
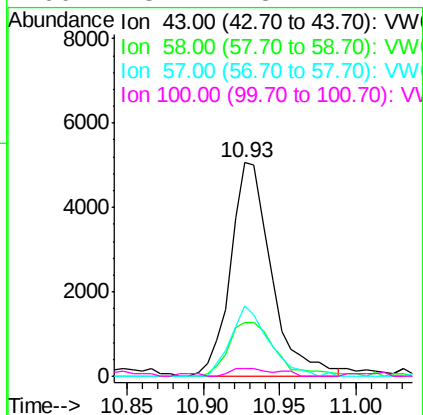
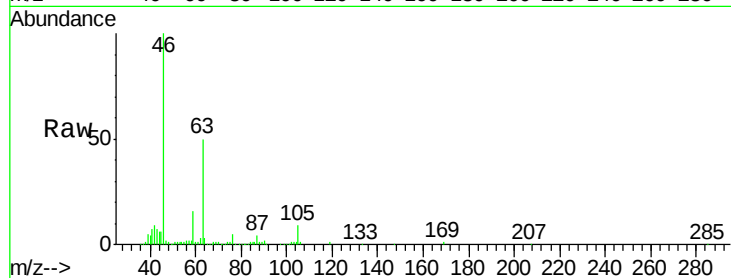




#49  
2-Hexanone  
Concen: 2.904 ug/L  
RT: 10.93 min Scan# 1532  
Delta R.T. -0.05 min  
Lab File: VW004081.D  
Acq: 20 Jul 2018 17:09

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 9387  
Ion Ratio Lower Upper  
43 100  
58 27.7 40.4 60.6#  
57 30.3 14.0 21.0#  
100 3.2 8.2 12.2#



#50  
Dibromochloromethane  
Concen: 8.436 ug/L  
RT: 10.87 min Scan# 1522  
Delta R.T. -0.27 min  
Lab File: VW004081.D  
Acq: 20 Jul 2018 17:09

Tgt Ion: 129 Resp: 34879  
Ion Ratio Lower Upper  
129 100  
127 0.0 56.1 104.3#

