

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032319\  
 Data File : VW009403.D  
 Acq On : 23 Mar 2019 21:38  
 Operator : SY/VA  
 Sample : K2062-19  
 Misc : 5.80G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF0H6

Manual Integrations  
 APPROVED

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 3/25/2019 8:33:37 AM

Quant Time: Mar 24 00:34:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Mar 23 23:52:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 375077   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 376464   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 172259   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 85048    | 18.97    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 75.88% |
| 7) Chloroethane-d5             | 2.89   | 69    | 90810    | 17.32    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 69.28% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 139110   | 14.36    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 57.44% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 88085    | 47.52    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 95.04% |
| 24) Chloroform-d               | 7.64   | 84    | 229917   | 22.46    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.84% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 146564   | 23.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 95.08% |
| 29) Benzene-d6                 | 8.27   | 84    | 401242   | 19.33    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 77.32% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 132624   | 21.27    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 85.08% |
| 37) Toluene-d8                 | 10.32  | 98    | 352761   | 18.38    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 73.52% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 58088    | 18.55    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 74.20% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 68164    | 45.13    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.26% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 138890   | 22.62    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 90.48% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 144424   | 21.86    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 87.44% |

| Target Compounds       |       |     |        |        | Ovalue |
|------------------------|-------|-----|--------|--------|--------|
| 16) Methylene chloride | 4.91  | 84  | 9538m  | 1.744  | ug/L   |
| 35) Trichloroethene    | 9.09  | 95  | 4313   | 0.786  | ug/L   |
| 47) Tetrachloroethene  | 10.86 | 164 | 379816 | 81.870 | ug/L   |

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

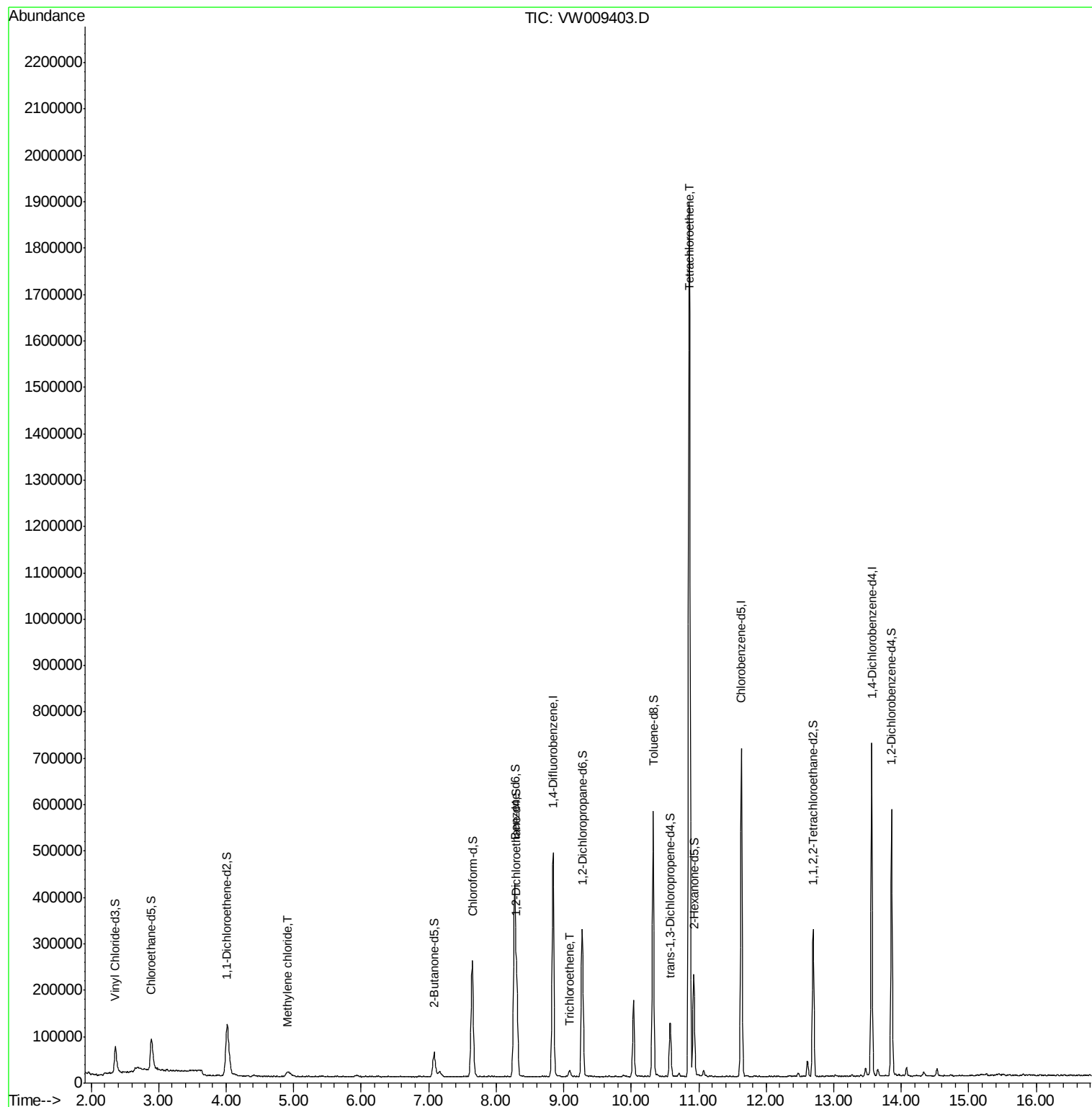
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032319\  
Data File : VW009403.D  
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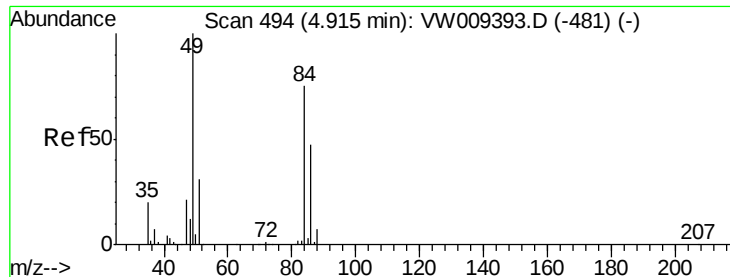
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Quant Title : VOC Analysis  
QLast Update : Sat Mar 23 23:52:05 2019  
Response via : Initial Calibration





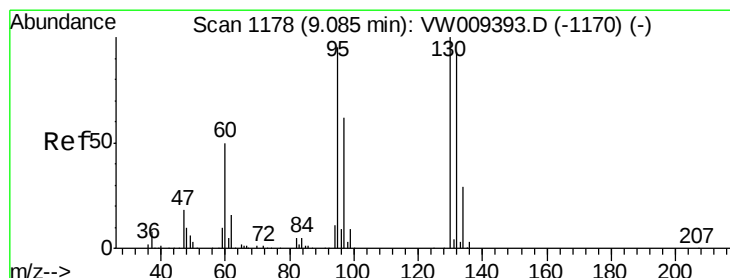
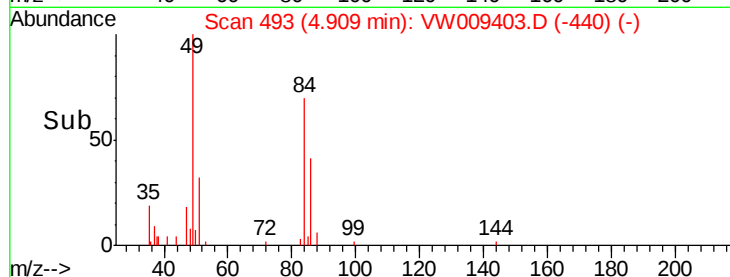
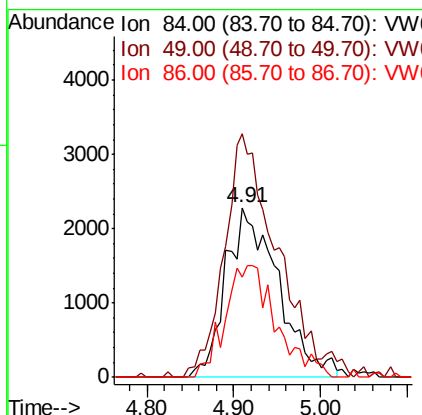
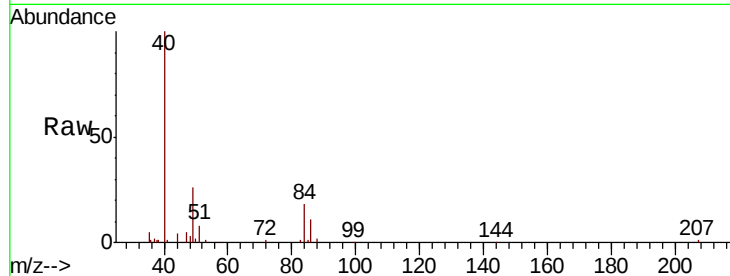
#16  
Methvlene chloride  
Concen: 1.744 ug/L m  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW009403.D  
Acq: 23 Mar 2019 21:38

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF0H6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 143.2 | 96.0  | 178.2 |
| 86      | 58.9  | 44.4  | 82.5  |

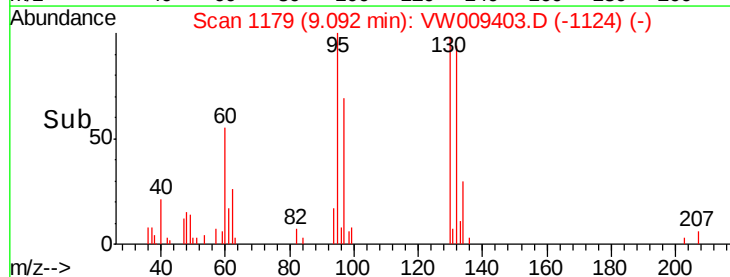
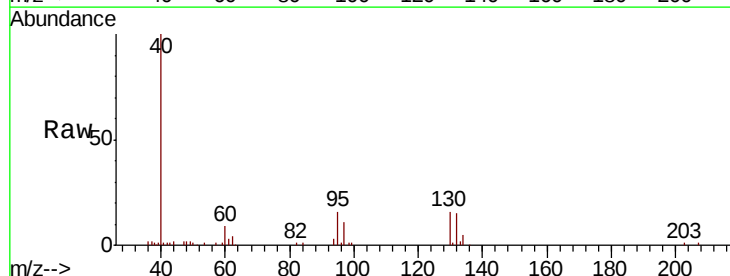
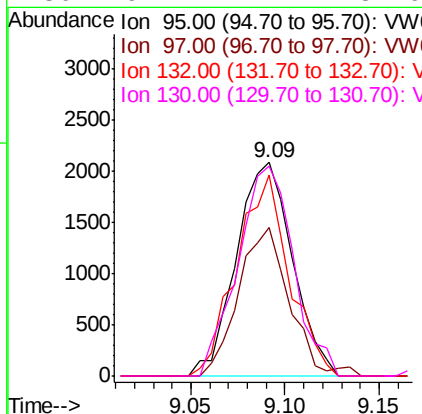
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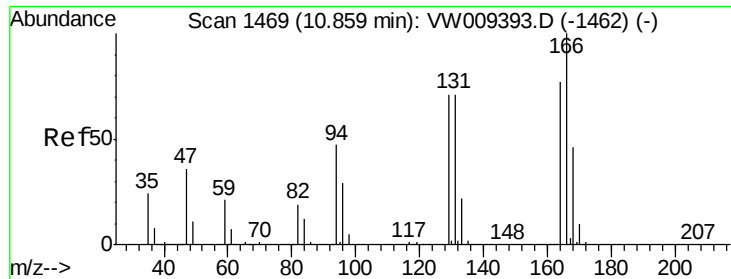
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#35  
Trichloroethene  
Concen: 0.786 ug/L  
RT: 9.09 min Scan# 1179  
Delta R.T. 0.01 min  
Lab File: VW009403.D  
Acq: 23 Mar 2019 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 61.8  | 44.7  | 82.9  |
| 132     | 88.0  | 69.0  | 128.2 |
| 130     | 97.2  | 72.7  | 134.9 |





#47  
 Tetrachloroethene  
 Concen: 81.870 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VW009403.D  
 Acq: 23 Mar 2019 21:38

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| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 129     | 95.0  | 66.5 | 123.5 |       |
| 131     | 92.1  | 62.6 | 116.3 |       |
| 166     | 131.1 | 91.6 | 170.0 |       |

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