

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW041619\  
 Data File : VW010009.D  
 Acq On : 16 Apr 2019 21:03  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02506

Quant Time: Apr 17 00:37:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 16 01:53:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 630213   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 603360   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 294843   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 162839   | 27.34    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 109.36% |
| 7) Chloroethane-d5             | 2.89   | 69    | 137281   | 22.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 91.04%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 422832   | 25.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 102.40% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 132562   | 41.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 82.30%  |
| 24) Chloroform-d               | 7.65   | 84    | 423292   | 23.23    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 92.92%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 252437   | 22.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 89.32%  |
| 29) Benzene-d6                 | 8.27   | 84    | 793345   | 23.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.72%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 249012   | 23.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 94.32%  |
| 37) Toluene-d8                 | 10.32  | 98    | 752810   | 24.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.56%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 116815   | 23.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 93.32%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 107511   | 45.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 91.88%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 221736   | 22.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 89.76%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 260101   | 23.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 93.88%  |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 221283 | 25.026 ug/L | 99     |
| 3) Chloromethane               | 2.22 | 50  | 194514 | 24.136 ug/L | 100    |
| 5) Vinyl chloride              | 2.37 | 62  | 226116 | 29.826 ug/L | 99     |
| 6) Bromomethane                | 2.78 | 94  | 137353 | 24.533 ug/L | 98     |
| 8) Chloroethane                | 2.93 | 64  | 139137 | 25.564 ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.25 | 101 | 136226 | 21.826 ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 209543 | 25.785 ug/L | 96     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 206192 | 27.100 ug/L | 90     |
| 13) Acetone                    | 4.12 | 43  | 115626 | 40.361 ug/L | 97     |
| 14) Carbon disulfide           | 4.38 | 76  | 618502 | 28.677 ug/L | 100    |
| 15) Methyl Acetate             | 4.67 | 43  | 129221 | 22.348 ug/L | 99     |
| 16) Methylene chloride         | 4.91 | 84  | 238652 | 20.914 ug/L | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 269899 | 24.238 ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 218379 | 25.361 ug/L | 97     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 435998 | 25.402 ug/L | 99     |
| 21) 2-Butanone                 | 7.17 | 43  | 172681 | 46.032 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 239872 | 25.669 ug/L | 91     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 107865   | 24.785 | ug/L  | 98       |
| 25) Chloroform                 | 7.67  | 83   | 440804   | 25.099 | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 333305   | 24.650 | ug/L  | 99       |
| 30) Cyclohexane                | 7.95  | 56   | 392620   | 28.792 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 338928   | 26.898 | ug/L  | 100      |
| 32) Carbon tetrachloride       | 8.07  | 117  | 332928   | 26.910 | ug/L  | 100      |
| 34) Benzene                    | 8.32  | 78   | 949676   | 26.719 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 241051   | 26.083 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 409771   | 27.597 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 250965   | 26.698 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.65  | 83   | 328938   | 25.631 | ug/L  | 96       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 379882   | 26.213 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 376673   | 48.654 | ug/L  | 99       |
| 44) Toluene                    | 10.39 | 91   | 1022325  | 27.112 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 327352   | 25.582 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 180049   | 24.560 | ug/L  | 96       |
| 47) Tetrachloroethene          | 10.86 | 164  | 187651   | 25.994 | ug/L  | 98       |
| 49) 2-Hexanone                 | 10.97 | 43   | 276041   | 50.189 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 216794   | 24.913 | ug/L  | 100      |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 175640   | 24.476 | ug/L  | 98       |
| 52) Chlorobenzene              | 11.66 | 112  | 634552   | 25.789 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 1157989  | 27.476 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 427069   | 27.703 | ug/L  | 96       |
| 55) o-xylene                   | 12.16 | 106  | 407388   | 27.553 | ug/L  | 97       |
| 56) Styrene                    | 12.18 | 104  | 716360   | 27.676 | ug/L  | 100      |
| 57) Isopropylbenzene           | 12.47 | 105  | 1102937  | 28.006 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 236606   | 24.534 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 176041   | 24.391 | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 123167   | 23.788 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 466043   | 26.161 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 492623   | 25.734 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 455650   | 26.068 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 40656    | 22.985 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 348795   | 26.731 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 282204   | 26.401 | ug/L  | 99       |
| 69) Naphthalene                | 15.37 | 128  | 593364   | 25.864 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 270044   | 26.477 | ug/L  | 99       |

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

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