

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122719\  
 Data File : VW014474.D  
 Acq On : 27 Dec 2019 17:15  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC025

Quant Time: Dec 28 05:37:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 28 03:24:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 1155539  | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 1003525  | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 487127   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 291540   | 17.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 71.60%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 284847   | 23.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.92%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 694629   | 23.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 93.24%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 221097   | 57.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 114.08% |
| 24) Chloroform-d               | 7.64   | 84    | 737416   | 27.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 110.96% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 365261   | 26.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.92% |
| 29) Benzene-d6                 | 8.27   | 84    | 1446456  | 27.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 108.40% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 458183   | 28.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 114.24% |
| 37) Toluene-d8                 | 10.32  | 98    | 1292723  | 26.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 106.88% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 174459   | 26.32    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 105.28% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 166498   | 60.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 121.38% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 343510   | 28.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 114.04% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 442991   | 27.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 110.40% |

## Target Compounds

|                                |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 272236  | 26.336 | ug/L 99  |
| 3) Chloromethane               | 2.21 | 50  | 281226  | 24.064 | ug/L 100 |
| 5) Vinyl chloride              | 2.36 | 62  | 449067  | 27.006 | ug/L 97  |
| 6) Bromomethane                | 2.78 | 94  | 266548  | 27.451 | ug/L 99  |
| 8) Chloroethane                | 2.92 | 64  | 267378  | 28.755 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 302659  | 34.411 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 424491  | 28.114 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 412108  | 27.872 | ug/L 95  |
| 13) Acetone                    | 4.11 | 43  | 228881  | 42.648 | ug/L 97  |
| 14) Carbon disulfide           | 4.38 | 76  | 1201251 | 26.315 | ug/L 99  |
| 15) Methyl Acetate             | 4.66 | 43  | 179814  | 24.830 | ug/L 98  |
| 16) Methylene chloride         | 4.90 | 84  | 453483  | 24.067 | ug/L 97  |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 529115  | 27.803 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 440778  | 28.300 | ug/L 98  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 819224  | 29.097 | ug/L 99  |
| 21) 2-Butanone                 | 7.17 | 43  | 262711  | 45.625 | ug/L 100 |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 472051  | 28.793 | ug/L 98  |

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 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 28 03:24:24 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 194811   | 27.449 | ug/L  | 99       |
| 25) Chloroform                  | 7.67  | 83   | 783415   | 29.091 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 477195   | 27.297 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.95  | 56   | 774064   | 30.154 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 632397   | 30.721 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.06  | 117  | 580579   | 30.271 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 1815538  | 30.063 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 460650   | 29.555 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.33  | 83   | 814356   | 29.782 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 446742   | 29.227 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 547183   | 29.761 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 680513   | 29.804 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 500393   | 50.996 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 1910763  | 30.277 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 526142   | 28.818 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 301828   | 27.878 | ug/L  | 100      |
| 47) Tetrachloroethene           | 10.86 | 164  | 386600   | 29.540 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.96 | 43   | 359454   | 53.646 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 350885   | 28.542 | ug/L  | 98       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 273956   | 26.806 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 1164855  | 29.199 | ug/L  | 97       |
| 53) Ethylbenzene                | 11.73 | 91   | 2110072  | 30.409 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 807946   | 30.769 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 749663   | 30.225 | ug/L  | 98       |
| 56) Styrene                     | 12.18 | 104  | 1282916  | 30.732 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.46 | 105  | 2056236  | 31.167 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 346396   | 26.351 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 251503   | 25.540 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 197678   | 27.156 | ug/L  | 97       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 909392   | 29.487 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 894002   | 28.748 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 805364   | 29.130 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 50887    | 24.855 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 676687   | 29.620 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 507617   | 29.641 | ug/L  | 98       |
| 69) Naphthalene                 | 15.36 | 128  | 831949   | 28.139 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 453380   | 29.215 | ug/L  | 98       |

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

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