

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW091918\  
 Data File : VW005518.D  
 Acq On : 19 Sep 2018 16:41  
 Operator : SY/AP  
 Sample : VSTD05094  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05094

Quant Time: Sep 19 17:21:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091918S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 19 17:19:22 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 431402   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 405523   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 209328   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 309132  | 62.09  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 238398  | 67.72  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 652123  | 73.35  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.08  | 46  | 221683  | 118.21 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 615213  | 76.46  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 368782  | 71.67  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.28  | 84  | 1254566 | 77.06  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 386538  | 83.18  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.33 | 98  | 1183416 | 71.75  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 181092  | 77.88  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 182233  | 125.94 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 333625  | 68.64  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 424641  | 67.59  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |         |             | Qvalue |
|--------------------------------|-------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 320584  | 36.049 ug/L | 93     |
| 3) Chloromethane               | 2.22  | 50  | 316161  | 38.608 ug/L | 99     |
| 5) Vinyl chloride              | 2.37  | 62  | 317823  | 40.737 ug/L | 99     |
| 6) Bromomethane                | 2.78  | 94  | 186325  | 46.097 ug/L | 99     |
| 8) Chloroethane                | 2.93  | 64  | 183997  | 44.402 ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 268393  | 26.413 ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 283987  | 51.159 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 266007  | 56.659 ug/L | 88     |
| 13) Acetone                    | 4.12  | 43  | 142432  | 80.899 ug/L | 98     |
| 14) Carbon disulfide           | 4.38  | 76  | 861409  | 46.735 ug/L | 98     |
| 15) Methyl Acetate             | 4.67  | 43  | 173535  | 44.677 ug/L | 99     |
| 16) Methylene chloride         | 4.92  | 84  | 285426  | 34.840 ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 440219  | 33.777 ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 282280  | 53.846 ug/L | 97     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 545891  | 56.984 ug/L | 98     |
| 21) 2-Butanone                 | 7.18  | 43  | 224935  | 83.365 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 317574  | 56.760 ug/L | 98     |
| 23) Bromochloromethane         | 7.52  | 128 | 137838  | 52.864 ug/L | 98     |
| 25) Chloroform                 | 7.68  | 83  | 550563  | 54.651 ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 397856  | 50.877 ug/L | 100    |
| 30) Cyclohexane                | 7.96  | 56  | 552804  | 60.373 ug/L | 100    |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 458852  | 49.767 ug/L | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 440831  | 51.537 ug/L | 100    |
| 34) Benzene                    | 8.33  | 78  | 1223054 | 54.136 ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 314656  | 52.474 ug/L | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 587264  | 56.426 ug/L | 100    |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 321617  | 57.665 ug/L | 99     |
| 41) Bromodichloromethane       | 9.65  | 83  | 399875  | 55.930 ug/L | 98     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 499905  | 60.682 ug/L | 98     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 497085  | 93.220 ug/L | 99     |

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 Sample : VSTD05094  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05094

Quant Time: Sep 19 17:21:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091918S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 19 17:19:22 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 10.39 | 91   | 1305508  | 50.432 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 446903   | 57.901 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 232672   | 53.147 | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.87 | 164  | 252639   | 46.533 | ug/L  | 96       |
| 49) 2-Hexanone                 | 10.97 | 43   | 355836   | 90.771 | ug/L  | 96       |
| 50) Dibromochloromethane       | 11.13 | 129  | 283886   | 54.281 | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 220206   | 51.247 | ug/L  | 96       |
| 52) Chlorobenzene              | 11.66 | 112  | 829586   | 49.112 | ug/L  | 97       |
| 53) Ethylbenzene               | 11.74 | 91   | 1518730  | 50.444 | ug/L  | 98       |
| 54) m,p-Xylene                 | 11.85 | 106  | 560490   | 49.721 | ug/L  | 98       |
| 55) o-xylene                   | 12.17 | 106  | 539308   | 50.947 | ug/L  | 99       |
| 56) Styrene                    | 12.19 | 104  | 945071   | 51.725 | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.47 | 105  | 1515044  | 51.526 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 308590   | 51.265 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 241076   | 46.857 | ug/L  | 99       |
| 62) Bromoform                  | 12.35 | 173  | 180609   | 51.492 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 664510   | 49.924 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 676853   | 49.270 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 627499   | 49.243 | ug/L  | 94       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 57994    | 41.942 | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene     | 14.64 | 180  | 518347   | 49.181 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 431915   | 49.582 | ug/L  | 100      |
| 69) Naphthalene                | 15.38 | 128  | 934832   | 48.981 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 403951   | 49.338 | ug/L  | 99       |

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

