

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061819\  
 Data File : VW010844.D  
 Acq On : 18 Jun 2019 14:09  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02524

Quant Time: Jun 19 04:50:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM061119S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jun 19 04:47:37 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 389621   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 348617   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 164514   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 120674   | 21.27    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.08% |
| 7) Chloroethane-d5             | 2.88   | 69    | 96308    | 22.38    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.52% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 264435   | 22.48    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 89.92% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 99449    | 44.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 89.34% |
| 24) Chloroform-d               | 7.65   | 84    | 176390   | 22.02    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 88.08% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 145661   | 22.33    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 89.32% |
| 29) Benzene-d6                 | 8.27   | 84    | 486292   | 23.36    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 93.44% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 156240   | 23.40    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.60% |
| 37) Toluene-d8                 | 10.32  | 98    | 439230   | 23.49    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.96% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 69189    | 23.14    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.56% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 68772    | 43.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.20% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 126545   | 22.37    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 89.48% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 145773   | 23.28    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 93.12% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.00 | 85  | 148370 | 23.781 | ug/L 100 |
| 3) Chloromethane               | 2.21 | 50  | 164678 | 23.734 | ug/L 98  |
| 5) Vinyl chloride              | 2.35 | 62  | 151765 | 23.858 | ug/L 99  |
| 6) Bromomethane                | 2.77 | 94  | 69657  | 24.309 | ug/L 99  |
| 8) Chloroethane                | 2.92 | 64  | 89457  | 24.013 | ug/L 98  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 205339 | 24.398 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 115888 | 23.535 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 105354 | 23.255 | ug/L 96  |
| 13) Acetone                    | 4.12 | 43  | 93131  | 38.934 | ug/L 100 |
| 14) Carbon disulfide           | 4.38 | 76  | 294232 | 22.008 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 80851  | 21.053 | ug/L 99  |
| 16) Methylene chloride         | 4.92 | 84  | 126240 | 23.611 | ug/L 94  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 325095 | 21.670 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 116414 | 23.046 | ug/L 97  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 249699 | 23.723 | ug/L 100 |
| 21) 2-Butanone                 | 7.17 | 43  | 123248 | 37.722 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 132075 | 22.977 | ug/L 99  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 53590    | 22.728 | ug/L  | 97       |
| 25) Chloroform                  | 7.68  | 83   | 300450   | 24.802 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 172947   | 22.327 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.95  | 56   | 240132   | 23.247 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 204709   | 24.570 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 174514   | 25.121 | ug/L  | 98       |
| 34) Benzene                     | 8.32  | 78   | 511730   | 23.865 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 130557   | 23.759 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 229240   | 23.680 | ug/L  | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 141592   | 23.691 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 170685   | 24.253 | ug/L  | 100      |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 217207   | 23.741 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 244343   | 42.551 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 533056   | 23.736 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 188378   | 24.453 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 96284    | 22.630 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 98567    | 23.938 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.97 | 43   | 183959   | 43.216 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 110758   | 23.490 | ug/L  | 100      |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 91337    | 22.420 | ug/L  | 97       |
| 52) Chlorobenzene               | 11.66 | 112  | 331947   | 23.708 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 619646   | 24.109 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 219176   | 23.664 | ug/L  | 100      |
| 55) o-xylene                    | 12.17 | 106  | 213051   | 23.722 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 371869   | 23.795 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.47 | 105  | 598987   | 24.358 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 128287   | 22.504 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 99454    | 22.069 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 63438    | 22.736 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 256441   | 24.158 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 253494   | 23.596 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 231724   | 23.333 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 22410    | 21.406 | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 197791   | 24.551 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.14 | 180  | 165168   | 24.566 | ug/L  | 100      |
| 69) Naphthalene                 | 15.37 | 128  | 331349   | 23.310 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 147398   | 24.469 | ug/L  | 99       |

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

