

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW060723\  
 Data File : VW031411.D  
 Acq On : 07 Jun 2023 20:19  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050360

Quant Time: Jun 08 04:27:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM060723WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jun 08 04:14:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542   | 114   | 269753   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789   | 117   | 268429   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 161221   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 106821   | 45.008   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 90.020%  |
| 7) Chloroethane-d5            | 1.532   | 69    | 88821    | 46.225   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 92.440%  |
| 11) 1,1-Dichloroethene-d2     | 2.060   | 65    | 51302    | 45.608   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.220%  |
| 21) 2-Butanone-d5             | 3.796   | 46    | 159509   | 92.996   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 93.000%  |
| 24) Chloroform-d              | 4.259   | 84    | 217094   | 48.087   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.180%  |
| 26) 1,2-Dichloroethane-d4     | 4.950   | 65    | 144891   | 47.841   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.680%  |
| 32) Benzene-d6                | 4.966   | 84    | 380692   | 48.036   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.080%  |
| 36) 1,2-Dichloropropane-d6    | 5.995   | 67    | 131802   | 47.846   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 95.700%  |
| 41) Toluene-d8                | 7.249   | 98    | 367680   | 50.504   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 101.000% |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 64443    | 46.442   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.880%  |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 103887   | 100.130  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 100.130% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 167947   | 48.310   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 96.620%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 139979   | 46.804   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.600%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 52728    | 48.743   | ug/L   | 99       |
| 3) Chloromethane              | 1.217   | 50    | 40293    | 45.899   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.282   | 62    | 49156    | 46.933   | ug/L   | 97       |
| 6) Bromomethane               | 1.487   | 94    | 30559    | 48.545   | ug/L   | 100      |
| 8) Chloroethane               | 1.548   | 64    | 38955    | 46.163   | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 1.716   | 101   | 123237   | 48.748   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 78878    | 48.247   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.072   | 96    | 49971    | 46.435   | ug/L   | 95       |
| 13) Acetone                   | 2.118   | 43    | 114218   | 74.437   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.243   | 76    | 38795    | 42.145   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.378   | 43    | 111181   | 47.984   | ug/L   | 98       |
| 16) Methylene chloride        | 2.452   | 84    | 77139    | 47.486   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 2.699   | 96    | 47318    | 46.376   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 290722   | 46.356   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.117   | 63    | 170998   | 48.451   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.822   | 96    | 79048    | 47.653   | ug/L   | 98       |
| 22) 2-Butanone                | 3.876   | 43    | 164806   | 87.389   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.156   | 128   | 43193    | 49.515   | ug/L   | 97       |
| 25) Chloroform                | 4.281   | 83    | 190865   | 48.497   | ug/L   | 100      |

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 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050360

Quant Time: Jun 08 04:27:02 2023  
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 Quant Title : VOC Analysis  
 QLast Update : Thu Jun 08 04:14:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 146039   | 50.818  | ug/L  | 98       |
| 29) Cyclohexane               | 4.590  | 56   | 65740    | 45.727  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.523  | 97   | 153925   | 48.580  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.741  | 117  | 128784   | 48.928  | ug/L  | 99       |
| 33) Benzene                   | 5.018  | 78   | 299669   | 50.595  | ug/L  | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 91424    | 48.994  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.056  | 83   | 69479    | 43.535  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 106892   | 50.140  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.439  | 83   | 151313   | 48.494  | ug/L  | 95       |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 153869   | 48.309  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.166  | 43   | 355706   | 102.712 | ug/L  | 99       |
| 42) Toluene                   | 7.320  | 91   | 337784   | 50.952  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 161166   | 49.888  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 109977   | 49.908  | ug/L  | 100      |
| 46) Tetrachloroethene         | 7.911  | 164  | 58780    | 48.522  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.082  | 43   | 282310   | 104.144 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.182  | 129  | 119443   | 49.690  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 107004   | 50.439  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.818  | 112  | 247685   | 49.136  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.953  | 91   | 405271   | 49.120  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.079  | 106  | 151981   | 51.116  | ug/L  | 100      |
| 54) o-Xylene                  | 9.484  | 106  | 151429   | 50.487  | ug/L  | 96       |
| 55) Styrene                   | 9.500  | 104  | 291383   | 53.286  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 168316   | 49.829  | ug/L  | 100      |
| 59) Bromoform                 | 9.670  | 173  | 96592    | 46.758  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.873  | 105  | 443827   | 48.176  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 158205   | 48.474  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 371992   | 48.893  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 373517   | 49.046  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.124 | 146  | 229273   | 48.621  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.214 | 146  | 235461   | 47.209  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.587 | 146  | 235702   | 48.760  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 42651    | 49.304  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.587 | 180  | 168992   | 46.549  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 145559   | 46.997  | ug/L  | 99       |
| 71) Naphthalene               | 13.445 | 128  | 370209   | 43.611  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 150713   | 48.548  | ug/L  | 99       |

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

