

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW052423\  
 Data File : VW031205.D  
 Acq On : 24 May 2023 10:36  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050353

Quant Time: May 25 01:09:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM051923WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 24 01:27:41 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.539   | 114   | 168976   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789   | 117   | 172553   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 108390   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.282   | 65    | 61979    | 42.919   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 85.840%  |
| 7) Chloroethane-d5            | 1.536   | 69    | 58621    | 52.693   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 105.380% |
| 11) 1,1-Dichloroethene-d2     | 2.063   | 65    | 33791    | 49.899   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 99.800%  |
| 21) 2-Butanone-d5             | 3.802   | 46    | 79942    | 103.890  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 103.890% |
| 24) Chloroform-d              | 4.256   | 84    | 133596   | 52.293   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 104.580% |
| 26) 1,2-Dichloroethane-d4     | 4.947   | 65    | 95169    | 55.128   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 110.260% |
| 32) Benzene-d6                | 4.966   | 84    | 231915   | 49.578   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.160%  |
| 36) 1,2-Dichloropropane-d6    | 5.995   | 67    | 66704    | 47.658   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 95.320%  |
| 41) Toluene-d8                | 7.249   | 98    | 229973   | 52.675   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 105.360% |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 36262    | 51.640   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 103.280% |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 52998    | 97.117   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 97.120%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 105109   | 50.070   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 100.140% |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 98592    | 50.618   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 101.240% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108   | 85    | 59779    | 54.798   | ug/L   | 97       |
| 3) Chloromethane              | 1.217   | 50    | 56424    | 47.244   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.288   | 62    | 54663    | 51.243   | ug/L   | 99       |
| 6) Bromomethane               | 1.494   | 94    | 27673    | 46.289   | ug/L   | 93       |
| 8) Chloroethane               | 1.555   | 64    | 41449    | 60.299   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.716   | 101   | 122788   | 58.522   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.073   | 101   | 61830    | 55.881   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.073   | 96    | 51804    | 55.191   | ug/L   | 89       |
| 13) Acetone                   | 2.130   | 43    | 105686   | 105.646  | ug/L   | 98       |
| 14) Carbon disulfide          | 2.246   | 76    | 87311    | 51.044   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.381   | 43    | 63385    | 55.750   | ug/L   | 99       |
| 16) Methylene chloride        | 2.455   | 84    | 54008    | 51.684   | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 2.700   | 96    | 45639    | 52.590   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 197227   | 58.831   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.118   | 63    | 105858   | 53.524   | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 3.822   | 96    | 58405    | 54.593   | ug/L   | 99       |
| 22) 2-Butanone                | 3.880   | 43    | 103020   | 107.389  | ug/L   | 97       |
| 23) Bromochloromethane        | 4.156   | 128   | 34032    | 57.888   | ug/L   | 97       |
| 25) Chloroform                | 4.285   | 83    | 127176   | 57.563   | ug/L   | 96       |

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 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050353

Quant Time: May 25 01:09:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM051923WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 24 01:27:41 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 114590   | 61.130  | ug/L  | 96       |
| 29) Cyclohexane               | 4.593  | 56   | 68299    | 50.301  | ug/L  | 96       |
| 30) 1,1,1-Trichloroethane     | 4.519  | 97   | 117472   | 55.479  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.744  | 117  | 105372   | 57.123  | ug/L  | 99       |
| 33) Benzene                   | 5.018  | 78   | 227003   | 54.913  | ug/L  | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 56681    | 51.172  | ug/L  | 95       |
| 35) Methylcyclohexane         | 6.056  | 83   | 79829    | 54.312  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 60937    | 53.557  | ug/L  | 98       |
| 38) Bromodichloromethane      | 6.439  | 83   | 97868    | 55.488  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 93728    | 53.421  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 197534   | 112.823 | ug/L  | 99       |
| 42) Toluene                   | 7.320  | 91   | 260203   | 58.178  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 103581   | 58.359  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 68442    | 55.125  | ug/L  | 97       |
| 46) Tetrachloroethene         | 7.912  | 164  | 52882    | 55.599  | ug/L  | 92       |
| 48) 2-Hexanone                | 8.082  | 43   | 167994   | 115.200 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.182  | 129  | 78182    | 55.811  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 66952    | 54.238  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.818  | 112  | 174780   | 54.904  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.953  | 91   | 293152   | 57.248  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.079  | 106  | 112610   | 56.691  | ug/L  | 97       |
| 54) o-Xylene                  | 9.484  | 106  | 111296   | 56.797  | ug/L  | 99       |
| 55) Styrene                   | 9.500  | 104  | 208036   | 60.028  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 113218   | 55.499  | ug/L  | 99       |
| 59) Bromoform                 | 9.670  | 173  | 65473    | 52.095  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.873  | 105  | 316746   | 54.641  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 87927    | 52.731  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 257001   | 53.936  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.860 | 105  | 257403   | 55.248  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.124 | 146  | 165228   | 55.628  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.217 | 146  | 170337   | 55.124  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.587 | 146  | 169455   | 56.226  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 25829    | 50.461  | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 127467   | 55.514  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 103859   | 53.150  | ug/L  | 98       |
| 71) Naphthalene               | 13.445 | 128  | 252616   | 49.770  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 104389   | 53.459  | ug/L  | 99       |

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

