

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW120423\  
 Data File : VW033099.D  
 Acq On : 04 Dec 2023 16:12  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050345

Quant Time: Dec 05 03:24:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 05 03:20:48 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.532   | 114   | 311044   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786   | 117   | 302790   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185  | 152   | 182195   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 84008    | 45.180   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 90.360%  |
| 7) Chloroethane-d5            | 1.529   | 69    | 61358    | 47.359   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 94.720%  |
| 11) 1,1-Dichloroethene-d2     | 2.060   | 65    | 31856    | 45.035   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.060%  |
| 21) 2-Butanone-d5             | 3.780   | 46    | 102173   | 110.632  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 110.630% |
| 24) Chloroform-d              | 4.249   | 84    | 196001   | 49.670   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.340%  |
| 26) 1,2-Dichloroethane-d4     | 4.941   | 65    | 125747   | 51.255   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.500% |
| 32) Benzene-d6                | 4.960   | 84    | 358591   | 50.637   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.280% |
| 36) 1,2-Dichloropropane-d6    | 5.989   | 67    | 97069    | 50.980   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 101.960% |
| 41) Toluene-d8                | 7.243   | 98    | 332874   | 49.275   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 98.560%  |
| 43) trans-1,3-Dichloroprop... | 7.551   | 79    | 61326    | 50.934   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 101.860% |
| 47) 2-Hexanone-d5             | 8.021   | 63    | 88867    | 116.177  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 116.180% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.153  | 84    | 152692   | 56.412   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 112.820% |
| 66) 1,2-Dichlorobenzene-d4    | 11.561  | 152   | 158915   | 49.022   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 98.040%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 151973   | 44.699   | ug/L   | 100      |
| 3) Chloromethane              | 1.214   | 50    | 112282   | 50.072   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.282   | 62    | 105277   | 48.953   | ug/L   | 95       |
| 6) Bromomethane               | 1.484   | 94    | 67142    | 47.846   | ug/L   | 99       |
| 8) Chloroethane               | 1.548   | 64    | 53790    | 46.980   | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 1.712   | 101   | 164832   | 46.449   | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 76028    | 45.623   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.069   | 96    | 76825    | 49.266   | ug/L   | 99       |
| 13) Acetone                   | 2.108   | 43    | 65051    | 73.782   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.240   | 76    | 253960   | 45.392   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.368   | 43    | 75047    | 51.071   | ug/L   | 98       |
| 16) Methylene chloride        | 2.446   | 84    | 105591   | 51.136   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 2.693   | 96    | 98985    | 48.345   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 2.703   | 73    | 328142   | 52.758   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.111   | 63    | 172741   | 50.975   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.815   | 96    | 114776   | 52.831   | ug/L   | 97       |
| 22) 2-Butanone                | 3.863   | 43    | 101454   | 90.422   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.150   | 128   | 62205    | 49.866   | ug/L   | 94       |
| 25) Chloroform                | 4.275   | 83    | 199749   | 51.253   | ug/L   | 97       |

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 Sample : VSTDCCC050EC  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050345

Quant Time: Dec 05 03:24:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 05 03:20:48 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.040  | 62   | 157407   | 51.111  | ug/L  | 98       |
| 29) Cyclohexane               | 4.584  | 56   | 130975   | 46.832  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 4.513  | 97   | 186666   | 49.883  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 169832   | 48.810  | ug/L  | 99       |
| 33) Benzene                   | 5.008  | 78   | 394988   | 51.478  | ug/L  | 100      |
| 34) Trichloroethene           | 5.831  | 95   | 108850   | 47.485  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.050  | 83   | 157829   | 47.440  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.092  | 63   | 93682    | 52.756  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.433  | 83   | 151301   | 52.851  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 175037   | 54.322  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.156  | 43   | 209892   | 111.323 | ug/L  | 99       |
| 42) Toluene                   | 7.314  | 91   | 443547   | 51.299  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 168710   | 51.779  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 108835   | 52.859  | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.905  | 164  | 92977    | 47.183  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.072  | 43   | 154513   | 98.843  | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.175  | 129  | 128708   | 52.365  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 117918   | 53.718  | ug/L  | 100      |
| 51) Chlorobenzene             | 8.812  | 112  | 302333   | 49.724  | ug/L  | 98       |
| 52) Ethylbenzene              | 8.947  | 91   | 490772   | 49.312  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.072  | 106  | 198010   | 50.240  | ug/L  | 93       |
| 54) o-Xylene                  | 9.477  | 106  | 190404   | 48.958  | ug/L  | 97       |
| 55) Styrene                   | 9.497  | 104  | 345216   | 51.311  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.178 | 83   | 157890   | 56.127  | ug/L  | 97       |
| 59) Bromoform                 | 9.664  | 173  | 107896   | 54.564  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.866  | 105  | 517107   | 49.224  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.210 | 75   | 123047   | 54.161  | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 418601   | 49.457  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.854 | 105  | 438372   | 49.732  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.117 | 146  | 276537   | 49.273  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 290510   | 49.830  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.580 | 146  | 276046   | 50.171  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 35886    | 51.479  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 211765   | 47.105  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.198 | 180  | 215744   | 51.944  | ug/L  | 100      |
| 71) Naphthalene               | 13.439 | 128  | 520587   | 51.396  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.683 | 180  | 205546   | 51.288  | ug/L  | 100      |

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

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