

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW122022\  
 Data File : VW029754.D  
 Acq On : 20 Dec 2022 16:26  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050394

Quant Time: Dec 21 00:19:12 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120722WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 21 00:15:13 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.609   | 114   | 477377   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.844   | 117   | 440098   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.236  | 152   | 242244   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 140833   | 48.177   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 96.360%  |
| 7) Chloroethane-d5            | 1.565   | 69    | 122177   | 54.811   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 109.620% |
| 11) 1,1-Dichloroethene-d2     | 2.108   | 63    | 257642   | 56.507   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 113.020% |
| 21) 2-Butanone-d5             | 3.873   | 46    | 196359   | 110.112  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 110.110% |
| 24) Chloroform-d              | 4.339   | 84    | 264918   | 48.158   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.320%  |
| 26) 1,2-Dichloroethane-d4     | 5.021   | 65    | 157744   | 50.208   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.420% |
| 32) Benzene-d6                | 5.040   | 84    | 565340   | 48.615   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.240%  |
| 36) 1,2-Dichloropropane-d6    | 6.060   | 67    | 177842   | 50.067   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 100.140% |
| 41) Toluene-d8                | 7.307   | 98    | 517243   | 47.207   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 94.420%  |
| 43) trans-1,3-Dichloroprop... | 7.613   | 79    | 77114    | 42.992   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 85.980%  |
| 47) 2-Hexanone-d5             | 8.082   | 63    | 160184   | 105.605  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 105.600% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.204  | 84    | 260159   | 51.254   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 102.500% |
| 66) 1,2-Dichlorobenzene-d4    | 11.612  | 152   | 208363   | 45.184   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 90.360%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 167113   | 44.442   | ug/L   | 99       |
| 3) Chloromethane              | 1.240   | 50    | 195511   | 45.604   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.311   | 62    | 190577   | 53.131   | ug/L   | 99       |
| 6) Bromomethane               | 1.520   | 94    | 78978    | 54.721   | ug/L   | 99       |
| 8) Chloroethane               | 1.581   | 64    | 121835   | 60.999   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.751   | 101   | 238292   | 53.068   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101   | 143487   | 57.507   | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 2.114   | 96    | 137929   | 54.054   | ug/L   | 87       |
| 13) Acetone                   | 2.163   | 43    | 134888   | 116.112  | ug/L   | 100      |
| 14) Carbon disulfide          | 2.291   | 76    | 394547   | 46.459   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.423   | 43    | 161448   | 60.999   | ug/L   | 94       |
| 16) Methylene chloride        | 2.500   | 84    | 173446   | 54.668   | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 2.754   | 96    | 150507   | 51.190   | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 2.761   | 73    | 495842   | 55.044   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.182   | 63    | 283264   | 56.238   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.902   | 96    | 171436   | 53.026   | ug/L   | 93       |
| 22) 2-Butanone                | 3.954   | 43    | 217053   | 117.423  | ug/L   | 93       |
| 23) Bromochloromethane        | 4.236   | 128   | 91222    | 54.795   | ug/L   | 96       |
| 25) Chloroform                | 4.365   | 83    | 294465   | 56.392   | ug/L   | 98       |

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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050394

Quant Time: Dec 21 00:19:12 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120722WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 21 00:15:13 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.121  | 62   | 206993   | 56.115  | ug/L  | 100      |
| 29) Cyclohexane               | 4.671  | 56   | 239966   | 50.334  | ug/L  | 96       |
| 30) 1,1,1-Trichloroethane     | 4.597  | 97   | 244121   | 50.913  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 4.818  | 117  | 205013   | 48.963  | ug/L  | 100      |
| 33) Benzene                   | 5.092  | 78   | 652662   | 52.612  | ug/L  | 100      |
| 34) Trichloroethene           | 5.905  | 95   | 158684   | 51.048  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.124  | 83   | 260744   | 49.387  | ug/L  | 96       |
| 37) 1,2-Dichloropropane       | 6.166  | 63   | 164484   | 54.936  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.500  | 83   | 216142   | 52.294  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.018  | 75   | 232952   | 47.308  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.220  | 43   | 443707   | 124.293 | ug/L  | 95       |
| 42) Toluene                   | 7.378  | 91   | 694665   | 52.027  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.641  | 75   | 220659   | 47.319  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.828  | 97   | 169100   | 54.668  | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.966  | 164  | 129907   | 51.979  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.133  | 43   | 332690   | 121.982 | ug/L  | 95       |
| 49) Dibromochloromethane      | 8.236  | 129  | 178636   | 52.307  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.342  | 107  | 170488   | 53.499  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.873  | 112  | 443223   | 52.422  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.002  | 91   | 727010   | 51.790  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.127  | 106  | 291710   | 52.504  | ug/L  | 99       |
| 54) o-Xylene                  | 9.532  | 106  | 280689   | 51.074  | ug/L  | 99       |
| 55) Styrene                   | 9.551  | 104  | 510608   | 53.463  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.230 | 83   | 280222   | 56.633  | ug/L  | 99       |
| 59) Bromoform                 | 9.719  | 173  | 130794   | 48.877  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.921  | 105  | 745376   | 52.408  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.262 | 75   | 214505   | 57.366  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.529 | 105  | 612865   | 48.736  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.902 | 105  | 614104   | 49.265  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.169 | 146  | 352962   | 50.756  | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.262 | 146  | 357080   | 50.525  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.632 | 146  | 356294   | 50.104  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.413 | 75   | 54910    | 47.248  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.632 | 180  | 264557   | 47.804  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.246 | 180  | 234045   | 47.559  | ug/L  | 100      |
| 71) Naphthalene               | 13.490 | 128  | 637838   | 57.141  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.728 | 180  | 242136   | 50.234  | ug/L  | 100      |

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

