

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU040523\  
 Data File : VU053577.D  
 Acq On : 05 Apr 2023 10:09  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050185

Quant Time: Apr 06 03:36:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 01 04:51:17 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 251987   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 237215   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 124206   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 70380    | 35.869   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 71.740%  |
| 7) Chloroethane-d5            | 1.909   | 69    | 63553    | 42.009   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 84.020%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 126009   | 41.487   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 82.980%  |
| 21) 2-Butanone-d5             | 4.613   | 46    | 103793   | 116.836  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 116.840% |
| 24) Chloroform-d              | 5.057   | 84    | 146215   | 45.058   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.120%  |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 91177    | 47.550   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.100%  |
| 32) Benzene-d6                | 5.723   | 84    | 278477   | 43.491   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.980%  |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 90577    | 46.280   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 92.560%  |
| 41) Toluene-d8                | 7.896   | 98    | 259492   | 40.774   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 81.540%  |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 43446    | 43.005   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 86.020%  |
| 47) 2-Hexanone-d5             | 8.626   | 63    | 75603    | 113.188  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 113.190% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 138916   | 50.360   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 100.720% |
| 66) 1,2-Dichlorobenzene-d4    | 12.189  | 152   | 111393   | 42.965   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 85.940%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 101272   | 49.516   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 98646    | 58.697   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604   | 62    | 112511   | 57.767   | ug/L   | 100      |
| 6) Bromomethane               | 1.848   | 94    | 69403    | 48.973   | ug/L   | 97       |
| 8) Chloroethane               | 1.929   | 64    | 69278    | 59.140   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.134   | 101   | 160711   | 53.647   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 87216    | 50.270   | ug/L   | 93       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 77538    | 50.147   | ug/L   | 93       |
| 13) Acetone                   | 2.617   | 43    | 67395    | 84.415   | ug/L   | 96       |
| 14) Carbon disulfide          | 2.790   | 76    | 208349   | 50.939   | ug/L   | 97       |
| 15) Methyl Acetate            | 2.941   | 43    | 76322    | 62.412   | ug/L   | 93       |
| 16) Methylene chloride        | 3.041   | 84    | 94674    | 54.475   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 81424    | 52.398   | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 3.356   | 73    | 256301   | 56.586   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 146162   | 56.782   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.662   | 96    | 92827    | 51.718   | ug/L   | 90       |
| 22) 2-Butanone                | 4.694   | 43    | 103139   | 106.634  | ug/L   | 94       |
| 23) Bromochloromethane        | 4.970   | 128   | 49968    | 49.979   | ug/L   | 94       |
| 25) Chloroform                | 5.083   | 83    | 161802   | 54.803   | ug/L   | 98       |

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 MSVOA\_U  
 ClientSampleId :  
 VSTD050185

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 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 01 04:51:17 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.787  | 62   | 120450   | 55.708  | ug/L  | 99       |
| 29) Cyclohexane               | 5.385  | 56   | 124115   | 54.350  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 136994   | 52.411  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 119035   | 50.830  | ug/L  | 100      |
| 33) Benzene                   | 5.768  | 78   | 335895   | 54.348  | ug/L  | 100      |
| 34) Trichloroethene           | 6.536  | 95   | 97346    | 52.076  | ug/L  | 94       |
| 35) Methylcyclohexane         | 6.758  | 83   | 144276   | 52.508  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 87865    | 55.989  | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.102  | 83   | 116117   | 55.464  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 136841   | 53.360  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.784  | 43   | 202427   | 118.699 | ug/L  | 99       |
| 42) Toluene                   | 7.967  | 91   | 367160   | 52.421  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 129865   | 53.567  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.395  | 97   | 93339    | 54.172  | ug/L  | 97       |
| 46) Tetrachloroethene         | 8.549  | 164  | 71024    | 45.786  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.677  | 43   | 147403   | 106.852 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.806  | 129  | 91855    | 51.270  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 102271   | 53.054  | ug/L  | 96       |
| 51) Chlorobenzene             | 9.443  | 112  | 241528   | 50.050  | ug/L  | 95       |
| 52) Ethylbenzene              | 9.568  | 91   | 401753   | 51.528  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.690  | 106  | 160721   | 52.707  | ug/L  | 98       |
| 54) o-xylene                  | 10.095 | 106  | 155630   | 51.621  | ug/L  | 94       |
| 55) Styrene                   | 10.111 | 104  | 259668   | 52.879  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 141253   | 55.836  | ug/L  | 97       |
| 59) Bromoform                 | 10.285 | 173  | 66092    | 51.987  | ug/L  | 98       |
| 60) 1,2,3-Trichloropropane    | 10.819 | 75   | 111696   | 62.021  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.481 | 105  | 413658   | 56.330  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.083 | 105  | 341141   | 55.884  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 342206   | 56.599  | ug/L  | 97       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 193476   | 50.422  | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 197891   | 50.602  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 193870   | 50.695  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 29979    | 62.442  | ug/L  | 88       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 129652   | 45.628  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 121520   | 46.127  | ug/L  | 99       |
| 71) Naphthalene               | 14.082 | 128  | 401803   | 50.956  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.324 | 180  | 121985   | 46.359  | ug/L  | 99       |

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

