

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU033123\  
 Data File : VU053508.D  
 Acq On : 31 Mar 2023 21:40  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050178

Quant Time: Apr 01 05:10:46 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   | 336747   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.410   | 117   | 315112   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806  | 152   | 186153   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 126459   | 48.228   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 96.460%  |
| 7) Chloroethane-d5            | 1.909   | 69    | 99305    | 49.119   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 98.240%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 197878   | 48.751   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 97.500%  |
| 21) 2-Butanone-d5             | 4.610   | 46    | 125124   | 105.396  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 105.400% |
| 24) Chloroform-d              | 5.057   | 84    | 203784   | 46.993   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.980%  |
| 26) 1,2-Dichloroethane-d4     | 5.694   | 65    | 124367   | 48.534   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.060%  |
| 32) Benzene-d6                | 5.723   | 84    | 413911   | 48.663   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.320%  |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 121377   | 46.687   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 93.380%  |
| 41) Toluene-d8                | 7.893   | 98    | 413665   | 48.932   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.860%  |
| 43) trans-1,3-Dichloroprop... | 8.173   | 79    | 65238    | 48.612   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 97.220%  |
| 47) 2-Hexanone-d5             | 8.626   | 63    | 96343    | 108.582  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 108.580% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 181635   | 49.569   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 99.140%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.188  | 152   | 183619   | 47.255   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 94.520%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 133700   | 48.917   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 116202   | 51.740   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604   | 62    | 131245   | 50.424   | ug/L   | 99       |
| 6) Bromomethane               | 1.851   | 94    | 91706    | 48.423   | ug/L   | 97       |
| 8) Chloroethane               | 1.932   | 64    | 76946    | 49.153   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 200810   | 50.160   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 112416   | 48.486   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 103898   | 50.282   | ug/L   | 91       |
| 13) Acetone                   | 2.617   | 43    | 94361    | 88.442   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.790   | 76    | 260865   | 47.725   | ug/L   | 97       |
| 15) Methyl Acetate            | 2.941   | 43    | 89083    | 54.512   | ug/L   | 95       |
| 16) Methylene chloride        | 3.041   | 84    | 113038   | 48.671   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 103134   | 49.664   | ug/L   | 100      |
| 18) Methyl tert-butyl Ether   | 3.356   | 73    | 309618   | 51.152   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 173517   | 50.442   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.661   | 96    | 119283   | 49.730   | ug/L   | 99       |
| 22) 2-Butanone                | 4.690   | 43    | 128276   | 99.241   | ug/L   | 94       |
| 23) Bromochloromethane        | 4.967   | 128   | 65064    | 48.698   | ug/L   | 98       |
| 25) Chloroform                | 5.083   | 83    | 196746   | 49.866   | ug/L   | 100      |

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 ALS Vial : 25 Sample Multiplier: 1

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 ClientSampleId :  
 VSTD050178

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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   | 146504   | 50.703  | ug/L  | 98       |
| 29) Cyclohexane               | 5.382  | 56   | 152386   | 50.234  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 173699   | 50.026  | ug/L  | 100      |
| 31) Carbon tetrachloride      | 5.520  | 117  | 151707   | 48.767  | ug/L  | 99       |
| 33) Benzene                   | 5.768  | 78   | 413625   | 50.380  | ug/L  | 100      |
| 34) Trichloroethene           | 6.536  | 95   | 123269   | 49.642  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.758  | 83   | 179879   | 49.282  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.784  | 63   | 104799   | 50.271  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.099  | 83   | 137141   | 49.313  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.600  | 75   | 176947   | 51.942  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.784  | 43   | 244261   | 107.823 | ug/L  | 99       |
| 42) Toluene                   | 7.964  | 91   | 476131   | 51.175  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 165298   | 51.328  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.394  | 97   | 117990   | 51.551  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.549  | 164  | 104192   | 50.564  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.677  | 43   | 192074   | 104.815 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.806  | 129  | 117258   | 49.270  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 132316   | 51.672  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.443  | 112  | 320438   | 49.987  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.565  | 91   | 523904   | 50.584  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.690  | 106  | 211280   | 52.159  | ug/L  | 99       |
| 54) o-xylene                  | 10.095 | 106  | 205233   | 51.245  | ug/L  | 100      |
| 55) Styrene                   | 10.108 | 104  | 339555   | 52.053  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 174518   | 51.932  | ug/L  | 97       |
| 59) Bromoform                 | 10.285 | 173  | 91171    | 47.849  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.816 | 75   | 136677   | 50.637  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.478 | 105  | 544358   | 49.460  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.082 | 105  | 460114   | 50.291  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 456126   | 50.336  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 278513   | 48.430  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 277258   | 47.304  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 276091   | 48.170  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 36606    | 50.873  | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 202594   | 47.572  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 189237   | 47.928  | ug/L  | 98       |
| 71) Naphthalene               | 14.079 | 128  | 596734   | 50.493  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 190387   | 48.276  | ug/L  | 100      |

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

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