

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090622\  
 Data File : VU050630.D  
 Acq On : 06 Sep 2022 12:42  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050190

Quant Time: Sep 07 01:34:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM090222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 05 01:05:15 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 338135   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 373988   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 161179   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 121679   | 42.073   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 84.140%  |
| 7) Chloroethane-d5            | 1.906   | 69    | 99637    | 50.946   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 101.900% |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 224064   | 43.842   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 87.680%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 230382   | 108.879  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 108.880% |
| 24) Chloroform-d              | 5.063   | 84    | 273735   | 49.939   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.880%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 167674   | 50.059   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.120% |
| 32) Benzene-d6                | 5.729   | 84    | 540611   | 43.742   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.480%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 185738   | 45.774   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 91.540%  |
| 41) Toluene-d8                | 7.899   | 98    | 487388   | 46.115   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 92.220%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 82370    | 49.061   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 98.120%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 114263   | 111.949  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 111.950% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 300905   | 49.003   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 98.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 185656   | 49.205   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 98.420%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 162571   | 50.055   | ug/L   | 100      |
| 3) Chloromethane              | 1.520   | 50    | 193412   | 55.114   | ug/L   | 97       |
| 5) Vinyl chloride             | 1.604   | 62    | 175845   | 53.185   | ug/L   | 98       |
| 6) Bromomethane               | 1.848   | 94    | 100827   | 60.468   | ug/L   | 98       |
| 8) Chloroethane               | 1.928   | 64    | 99058    | 56.408   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.134   | 101   | 201965   | 50.137   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 134671   | 50.964   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 126613   | 49.312   | ug/L   | 96       |
| 13) Acetone                   | 2.623   | 43    | 166444   | 104.278  | ug/L   | 99       |
| 14) Carbon disulfide          | 2.790   | 76    | 382874   | 50.287   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.948   | 43    | 183064   | 54.230   | ug/L   | 99       |
| 16) Methylene chloride        | 3.044   | 84    | 169752   | 50.377   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.353   | 96    | 139144   | 51.105   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.362   | 73    | 443213   | 52.502   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.870   | 63    | 271228   | 51.634   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.668   | 96    | 158440   | 51.576   | ug/L   | 99       |
| 22) 2-Butanone                | 4.700   | 43    | 263954   | 105.730  | ug/L   | 97       |
| 23) Bromochloromethane        | 4.973   | 128   | 83797    | 52.788   | ug/L   | 99       |
| 25) Chloroform                | 5.089   | 83    | 279973   | 52.314   | ug/L   | 98       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050190

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 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 05 01:05:15 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 210809   | 53.146  | ug/L  | 100      |
| 29) Cyclohexane               | 5.388  | 56   | 226319   | 45.186  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.317  | 97   | 222007   | 44.073  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 182932   | 44.325  | ug/L  | 100      |
| 33) Benzene                   | 5.774  | 78   | 650963   | 47.828  | ug/L  | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 145397   | 45.847  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.764  | 83   | 238857   | 47.375  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 175329   | 48.769  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.105  | 83   | 210537   | 49.784  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 237581   | 48.822  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 498572   | 101.767 | ug/L  | 100      |
| 42) Toluene                   | 7.970  | 91   | 678806   | 49.099  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 234925   | 51.454  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 176327   | 51.057  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.555  | 164  | 110905   | 47.880  | ug/L  | 95       |
| 48) 2-Hexanone                | 8.684  | 43   | 434691   | 95.073  | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.812  | 129  | 178713   | 54.254  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 191186   | 54.435  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.449  | 112  | 431768   | 50.320  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.571  | 91   | 721613   | 52.835  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.697  | 106  | 274278   | 52.417  | ug/L  | 98       |
| 54) o-Xylene                  | 10.102 | 106  | 284226   | 54.560  | ug/L  | 98       |
| 55) Styrene                   | 10.115 | 104  | 480274   | 56.032  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 312587   | 50.814  | ug/L  | 99       |
| 59) Bromoform                 | 10.291 | 173  | 129095   | 53.683  | ug/L  | 97       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 238172   | 50.363  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.484 | 105  | 658787   | 51.637  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 577693   | 52.965  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 564522   | 53.898  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 287738   | 51.257  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 289686   | 52.207  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 297504   | 49.760  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.995 | 75   | 66930    | 53.593  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 204759   | 50.261  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 169039   | 48.866  | ug/L  | 100      |
| 71) Naphthalene               | 14.089 | 128  | 510693   | 41.639  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 170814   | 45.598  | ug/L  | 99       |

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

