

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100622\  
 Data File : VU051187.D  
 Acq On : 06 Oct 2022 21:17  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050111

Quant Time: Oct 07 01:35:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092922WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 07 01:29:24 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| -----                         |                |      |            |          |       |          |
| Internal Standards            |                |      |            |          |       |          |
| 1) 1,4-Difluorobenzene        | 6.247          | 114  | 468495     | 50.000   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.414          | 117  | 475955     | 50.000   | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809         | 152  | 233671     | 50.000   | ug/L  | 0.00     |
|                               |                |      |            |          |       |          |
| System Monitoring Compounds   |                |      |            |          |       |          |
| 4) Vinyl Chloride-d3          | 1.597          | 65   | 193976     | 40.855   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 81.700%  |       |          |
| 7) Chloroethane-d5            | 1.900          | 69   | 160666     | 36.428   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 72.860%  |       |          |
| 11) 1,1-Dichloroethene-d2     | 2.562          | 63   | 298759     | 42.598   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 85.200%  |       |          |
| 21) 2-Butanone-d5             | 4.620          | 46   | 227598     | 73.909   | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 73.910%  |       |          |
| 24) Chloroform-d              | 5.060          | 84   | 318301     | 41.611   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 83.220%  |       |          |
| 26) 1,2-Dichloroethane-d4     | 5.700          | 65   | 191495     | 40.444   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 80.880%  |       |          |
| 32) Benzene-d6                | 5.726          | 84   | 628732     | 45.110   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 90.220%  |       |          |
| 36) 1,2-Dichloropropane-d6    | 6.687          | 67   | 206337     | 45.623   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 91.240%  |       |          |
| 41) Toluene-d8                | 7.896          | 98   | 574835     | 44.639   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 89.280%  |       |          |
| 43) trans-1,3-Dichloroprop... | 8.176          | 79   | 84262      | 39.061   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 78.120%  |       |          |
| 47) 2-Hexanone-d5             | 8.629          | 63   | 121069     | 66.296   | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 66.300%  |       |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755         | 84   | 318107     | 40.245   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 80.500%  |       |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192         | 152  | 199063     | 39.878   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 79.760%# |       |          |
|                               |                |      |            |          |       |          |
| Target Compounds              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.385          | 85   | 170229     | 43.331   | ug/L  | 99       |
| 3) Chloromethane              | 1.523          | 50   | 226656     | 48.831   | ug/L  | 98       |
| 5) Vinyl chloride             | 1.601          | 62   | 235505     | 47.808   | ug/L  | 99       |
| 6) Bromomethane               | 1.835          | 94   | 190704     | 46.737   | ug/L  | 100      |
| 8) Chloroethane               | 1.922          | 64   | 147963     | 40.905   | ug/L  | 100      |
| 9) Trichlorofluoromethane     | 2.131          | 101  | 263315     | 39.754   | ug/L  | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575          | 101  | 159684     | 44.647   | ug/L  | 98       |
| 12) 1,1-Dichloroethene        | 2.575          | 96   | 152186     | 45.552   | ug/L  | 92       |
| 13) Acetone                   | 2.623          | 43   | 183874     | 74.774   | ug/L  | 97       |
| 14) Carbon disulfide          | 2.787          | 76   | 444735     | 45.033   | ug/L  | 100      |
| 15) Methyl Acetate            | 2.945          | 43   | 200719     | 44.709   | ug/L  | 97       |
| 16) Methylene chloride        | 3.041          | 84   | 207098     | 43.181   | ug/L  | 99       |
| 17) trans-1,2-Dichloroethene  | 3.350          | 96   | 160763     | 45.231   | ug/L  | 98       |
| 18) Methyl tert-butyl Ether   | 3.363          | 73   | 508236     | 47.053   | ug/L  | 99       |
| 19) 1,1-Dichloroethane        | 3.864          | 63   | 334208     | 49.501   | ug/L  | 99       |
| 20) cis-1,2-Dichloroethene    | 4.662          | 96   | 186711     | 47.048   | ug/L  | 95       |
| 22) 2-Butanone                | 4.700          | 43   | 286853     | 84.430   | ug/L  | 98       |
| 23) Bromochloromethane        | 4.970          | 128  | 100866     | 46.387   | ug/L  | 92       |
| 25) Chloroform                | 5.086          | 83   | 346649     | 47.203   | ug/L  | 98       |

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 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 07 01:29:24 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 262941   | 46.741 | ug/L  | 100      |
| 29) Cyclohexane               | 5.385  | 56   | 237265   | 51.197 | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 269566   | 48.293 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 215302   | 47.274 | ug/L  | 99       |
| 33) Benzene                   | 5.771  | 78   | 768661   | 52.973 | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 173284   | 46.107 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.761  | 83   | 242465   | 47.401 | ug/L  | 96       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 208664   | 53.401 | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.102  | 83   | 255108   | 48.921 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 264724   | 47.837 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 559654   | 98.899 | ug/L  | 98       |
| 42) Toluene                   | 7.967  | 91   | 806029   | 52.224 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 255912   | 45.737 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 202447   | 47.831 | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.552  | 164  | 129211   | 45.366 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.681  | 43   | 474240   | 92.267 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.806  | 129  | 200280   | 45.007 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 207631   | 45.246 | ug/L  | 98       |
| 51) Chlorobenzene             | 9.446  | 112  | 484579   | 46.168 | ug/L  | 99       |
| 52) Ethylbenzene              | 9.568  | 91   | 768127   | 46.658 | ug/L  | 98       |
| 53) m,p-Xylene                | 9.690  | 106  | 304558   | 49.195 | ug/L  | 100      |
| 54) o-Xylene                  | 10.099 | 106  | 303907   | 49.113 | ug/L  | 98       |
| 55) Styrene                   | 10.111 | 104  | 536168   | 50.133 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 365577   | 48.804 | ug/L  | 98       |
| 59) Bromoform                 | 10.288 | 173  | 147275   | 42.836 | ug/L  | 98       |
| 60) 1,2,3-Trichloropropane    | 10.819 | 75   | 284179   | 46.214 | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.481 | 105  | 743957   | 49.011 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 617314   | 49.734 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 618550   | 49.721 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 348965   | 44.594 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 347970   | 44.484 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 367966   | 45.767 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 71967    | 40.105 | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 217202   | 40.930 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 168956   | 38.914 | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 626350   | 40.305 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 202398   | 41.775 | ug/L  | 100      |

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

