

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100522\  
 Data File : VU051140.D  
 Acq On : 05 Oct 2022 20:44  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050108

Quant Time: Oct 06 03:07:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092922WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 06 02:55:50 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 399286   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 410306   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 209156   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 152643   | 37.722   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 75.440%  |
| 7) Chloroethane-d5            | 1.893   | 69    | 143843   | 38.267   | ug/L   | -0.01    |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 76.540%  |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63    | 269470   | 45.081   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.160%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 258729   | 98.581   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 98.580%  |
| 24) Chloroform-d              | 5.060   | 84    | 326899   | 50.142   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.280% |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 207717   | 51.474   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.940% |
| 32) Benzene-d6                | 5.726   | 84    | 648720   | 53.991   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 107.980% |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 216219   | 55.457   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 110.920% |
| 41) Toluene-d8                | 7.896   | 98    | 582469   | 52.469   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.940% |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 88218    | 47.438   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 94.880%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 139510   | 88.617   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 88.620%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 354672   | 52.050   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 104.100% |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 210540   | 47.120   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 94.240%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 166745   | 49.801   | ug/L   | 99       |
| 3) Chloromethane              | 1.523   | 50    | 219356   | 55.450   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.601   | 62    | 224964   | 53.584   | ug/L   | 98       |
| 6) Bromomethane               | 1.832   | 94    | 147257   | 42.344   | ug/L   | 98       |
| 8) Chloroethane               | 1.919   | 64    | 141571   | 45.922   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.128   | 101   | 252383   | 44.708   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 153903   | 50.489   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.572   | 96    | 145952   | 51.258   | ug/L   | 96       |
| 13) Acetone                   | 2.623   | 43    | 191258   | 91.258   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.787   | 76    | 421839   | 50.118   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.945   | 43    | 208343   | 54.451   | ug/L   | 96       |
| 16) Methylene chloride        | 3.041   | 84    | 204888   | 50.125   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 154403   | 50.971   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.363   | 73    | 481845   | 52.342   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.867   | 63    | 326344   | 56.715   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.662   | 96    | 180953   | 53.500   | ug/L   | 97       |
| 22) 2-Butanone                | 4.700   | 43    | 295655   | 102.104  | ug/L   | 97       |
| 23) Bromochloromethane        | 4.970   | 128   | 99855    | 53.882   | ug/L   | 92       |
| 25) Chloroform                | 5.086   | 83    | 340370   | 54.382   | ug/L   | 99       |

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Instrument :  
 MSVOA\_U  
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 VSTD050108

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 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 06 02:55:50 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 259179   | 54.058  | ug/L  | 98       |
| 29) Cyclohexane               | 5.385  | 56   | 221471   | 55.435  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 255917   | 53.183  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 205734   | 52.401  | ug/L  | 99       |
| 33) Benzene                   | 5.771  | 78   | 756390   | 60.468  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 166532   | 51.400  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.761  | 83   | 220733   | 50.056  | ug/L  | 94       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 206776   | 61.385  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.105  | 83   | 248842   | 55.354  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 256496   | 53.766  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 570854   | 117.019 | ug/L  | 97       |
| 42) Toluene                   | 7.967  | 91   | 783291   | 58.871  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 248488   | 51.515  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 200936   | 55.070  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.552  | 164  | 120516   | 49.084  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.681  | 43   | 489745   | 110.529 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.809  | 129  | 195424   | 50.942  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 201185   | 50.856  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.446  | 112  | 463092   | 51.180  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.568  | 91   | 731692   | 51.556  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.690  | 106  | 288145   | 53.990  | ug/L  | 98       |
| 54) o-Xylene                  | 10.099 | 106  | 287660   | 53.925  | ug/L  | 98       |
| 55) Styrene                   | 10.111 | 104  | 520803   | 56.487  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 371464   | 57.524  | ug/L  | 99       |
| 59) Bromoform                 | 10.288 | 173  | 144574   | 46.979  | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 284332   | 51.658  | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.481 | 105  | 684288   | 50.363  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 569170   | 51.229  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 574344   | 51.579  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 333900   | 47.670  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 332033   | 47.421  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 350824   | 48.749  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 69666    | 43.373  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 209463   | 44.099  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 153332   | 39.455  | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 520592   | 37.426  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 180807   | 41.693  | ug/L  | 99       |

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

