

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW070623\  
 Data File : VW031643.D  
 Acq On : 06 Jul 2023 09:34  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050384

Quant Time: Jul 07 02:33:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM061423WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 04 07:06:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.538   | 114   | 211745   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789   | 117   | 211838   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 134056   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 93623    | 66.436   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 132.880% |
| 7) Chloroethane-d5            | 1.532   | 69    | 78587    | 63.912   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 127.820% |
| 11) 1,1-Dichloroethene-d2     | 2.060   | 65    | 43127    | 59.380   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 118.760% |
| 21) 2-Butanone-d5             | 3.793   | 46    | 112672   | 98.740   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 98.740%  |
| 24) Chloroform-d              | 4.252   | 84    | 178571   | 50.597   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.200% |
| 26) 1,2-Dichloroethane-d4     | 4.944   | 65    | 113393   | 51.352   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.700% |
| 32) Benzene-d6                | 4.963   | 84    | 313332   | 52.548   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 105.100% |
| 36) 1,2-Dichloropropane-d6    | 5.992   | 67    | 104575   | 49.482   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 98.960%  |
| 41) Toluene-d8                | 7.249   | 98    | 294623   | 53.844   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 107.680% |
| 43) trans-1,3-Dichloroprop... | 7.554   | 79    | 52779    | 51.228   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 102.460% |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 72470    | 86.849   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 86.850%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 145559   | 45.630   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 91.260%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 113352   | 44.359   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.720%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108   | 85    | 99394    | 44.254   | ug/L   | 100      |
| 3) Chloromethane              | 1.217   | 50    | 99032    | 46.728   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.285   | 62    | 98471    | 46.871   | ug/L   | 97       |
| 6) Bromomethane               | 1.487   | 94    | 64939    | 47.425   | ug/L   | 99       |
| 8) Chloroethane               | 1.548   | 64    | 65122    | 47.992   | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 1.715   | 101   | 161674   | 46.256   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 88424    | 47.208   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.072   | 96    | 73967    | 47.210   | ug/L   | 93       |
| 13) Acetone                   | 2.114   | 43    | 121024   | 107.483  | ug/L   | 97       |
| 14) Carbon disulfide          | 2.243   | 76    | 221280   | 46.691   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.375   | 43    | 97536    | 51.450   | ug/L   | 99       |
| 16) Methylene chloride        | 2.449   | 84    | 85987    | 43.776   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 2.696   | 96    | 72712    | 44.460   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 258621   | 47.393   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.114   | 63    | 166204   | 47.087   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.818   | 96    | 81787    | 46.275   | ug/L   | 99       |
| 22) 2-Butanone                | 3.870   | 43    | 143661   | 102.132  | ug/L   | 96       |
| 23) Bromochloromethane        | 4.153   | 128   | 45088    | 47.195   | ug/L   | 94       |
| 25) Chloroform                | 4.281   | 83    | 169562   | 46.211   | ug/L   | 99       |

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Instrument :  
 MSVOA\_V  
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 VSTD050384

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 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 04 07:06:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.043  | 62   | 138741   | 48.992  | ug/L   | 97       |
| 29) Cyclohexane               | 4.587  | 56   | 124114   | 45.033  | ug/L   | 97       |
| 30) 1,1,1-Trichloroethane     | 4.516  | 97   | 155926   | 45.909  | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.741  | 117  | 139760   | 46.442  | ug/L   | 99       |
| 33) Benzene                   | 5.014  | 78   | 327137   | 46.383  | ug/L   | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 86260    | 45.770  | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.056  | 83   | 125540   | 45.208  | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 97906    | 47.274  | ug/L   | 100      |
| 38) Bromodichloromethane      | 6.436  | 83   | 132200   | 47.225  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 6.956  | 75   | 143968   | 46.829  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 267995   | 110.203 | ug/L   | 96       |
| 42) Toluene                   | 7.320  | 91   | 351394   | 48.053  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.583  | 75   | 147475   | 49.259  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 90321    | 46.166  | ug/L   | 98       |
| 46) Tetrachloroethene         | 7.911  | 164  | 66047    | 44.651  | ug/L   | 98       |
| 48) 2-Hexanone                | 8.079  | 43   | 221076   | 113.827 | ug/L   | 94       |
| 49) Dibromochloromethane      | 8.181  | 129  | 102556   | 47.165  | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 93869    | 45.060  | ug/L   | 99       |
| 51) Chlorobenzene             | 8.818  | 112  | 218037   | 45.019  | ug/L   | 99       |
| 52) Ethylbenzene              | 8.950  | 91   | 382679   | 46.899  | ug/L   | 98       |
| 53) m,p-Xylene                | 9.079  | 106  | 139434   | 46.662  | ug/L   | 95       |
| 54) o-Xylene                  | 9.484  | 106  | 131515   | 46.378  | ug/L   | 98       |
| 55) Styrene                   | 9.500  | 104  | 251641   | 49.688  | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.181 | 83   | 146885   | 45.949  | ug/L   | 98       |
| 59) Bromoform                 | 9.670  | 173  | 77676    | 46.744  | ug/L # | 98       |
| 60) Isopropylbenzene          | 9.873  | 105  | 376238   | 44.023  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 121706   | 45.965  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 309624   | 43.834  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 286199   | 43.485  | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.123 | 146  | 186068   | 43.426  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.213 | 146  | 197766   | 43.314  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 189909   | 43.914  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 41688    | 53.047  | ug/L   | 89       |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 158140   | 48.437  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 141788   | 49.545  | ug/L   | 98       |
| 71) Naphthalene               | 13.445 | 128  | 384448   | 53.036  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 148859   | 50.056  | ug/L   | 98       |

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

