

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW121423\  
 Data File : VW033348.D  
 Acq On : 14 Dec 2023 20:14  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050361

Quant Time: Dec 15 00:49:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 08 21:51:12 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.535   | 114   | 230638   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786   | 117   | 233456   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185  | 152   | 149682   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 58120    | 42.154   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 84.300%  |
| 7) Chloroethane-d5            | 1.532   | 69    | 45076    | 46.922   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 93.840%  |
| 11) 1,1-Dichloroethene-d2     | 2.059   | 65    | 25286    | 48.209   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 96.420%  |
| 21) 2-Butanone-d5             | 3.786   | 46    | 61917    | 90.416   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 90.420%  |
| 24) Chloroform-d              | 4.249   | 84    | 159584   | 54.540   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 109.080% |
| 26) 1,2-Dichloroethane-d4     | 4.937   | 65    | 99747    | 54.831   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 109.660% |
| 32) Benzene-d6                | 4.960   | 84    | 283893   | 51.995   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.980% |
| 36) 1,2-Dichloropropane-d6    | 5.989   | 67    | 67875    | 46.234   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 92.460%  |
| 41) Toluene-d8                | 7.243   | 98    | 290007   | 55.679   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 111.360% |
| 43) trans-1,3-Dichloroprop... | 7.551   | 79    | 47685    | 51.367   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 102.740% |
| 47) 2-Hexanone-d5             | 8.024   | 63    | 59712    | 101.246  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 101.250% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.152  | 84    | 113512   | 54.392   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 108.780% |
| 66) 1,2-Dichlorobenzene-d4    | 11.561  | 152   | 149145   | 56.002   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 112.000% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 132133   | 52.412   | ug/L   | 100      |
| 3) Chloromethane              | 1.214   | 50    | 62972    | 37.873   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.285   | 62    | 73550    | 46.123   | ug/L   | 98       |
| 6) Bromomethane               | 1.484   | 94    | 50377    | 48.414   | ug/L   | 94       |
| 8) Chloroethane               | 1.548   | 64    | 42400    | 49.942   | ug/L   | 95       |
| 9) Trichlorofluoromethane     | 1.715   | 101   | 158964   | 60.412   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 73185    | 59.228   | ug/L   | 94       |
| 12) 1,1-Dichloroethene        | 2.069   | 96    | 67275    | 58.182   | ug/L   | 97       |
| 13) Acetone                   | 2.114   | 43    | 50533    | 77.297   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.243   | 76    | 186076   | 44.854   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.371   | 43    | 47835    | 43.901   | ug/L # | 83       |
| 16) Methylene chloride        | 2.445   | 84    | 82679    | 53.999   | ug/L   | 87       |
| 17) trans-1,2-Dichloroethene  | 2.693   | 96    | 81304    | 53.554   | ug/L   | 91       |
| 18) Methyl tert-butyl Ether   | 2.703   | 73    | 260770   | 56.542   | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.111   | 63    | 127391   | 50.698   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.815   | 96    | 92134    | 57.194   | ug/L   | 93       |
| 22) 2-Butanone                | 3.866   | 43    | 64181    | 77.144   | ug/L   | 84       |
| 23) Bromochloromethane        | 4.146   | 128   | 54169    | 58.563   | ug/L # | 84       |
| 25) Chloroform                | 4.275   | 83    | 167550   | 57.979   | ug/L   | 96       |

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 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050361

Quant Time: Dec 15 00:49:30 2023  
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 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 08 21:51:12 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.040  | 62   | 131979   | 57.794 | ug/L   | 100      |
| 29) Cyclohexane               | 4.583  | 56   | 97606    | 45.266 | ug/L   | 86       |
| 30) 1,1,1-Trichloroethane     | 4.513  | 97   | 171478   | 59.434 | ug/L   | 96       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 164490   | 61.315 | ug/L   | 99       |
| 33) Benzene                   | 5.011  | 78   | 322855   | 54.574 | ug/L   | 100      |
| 34) Trichloroethene           | 5.831  | 95   | 91972    | 52.038 | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.050  | 83   | 132658   | 51.716 | ug/L   | 93       |
| 37) 1,2-Dichloropropane       | 6.091  | 63   | 68457    | 50.000 | ug/L # | 96       |
| 38) Bromodichloromethane      | 6.432  | 83   | 125348   | 56.789 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 134495   | 54.136 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.156  | 43   | 138872   | 95.530 | ug/L # | 91       |
| 42) Toluene                   | 7.313  | 91   | 383248   | 57.489 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 136051   | 54.156 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 90631    | 57.091 | ug/L   | 96       |
| 46) Tetrachloroethene         | 7.905  | 164  | 90559    | 59.605 | ug/L   | 95       |
| 48) 2-Hexanone                | 8.075  | 43   | 114035   | 94.614 | ug/L # | 95       |
| 49) Dibromochloromethane      | 8.175  | 129  | 111548   | 58.862 | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 97422    | 57.562 | ug/L   | 98       |
| 51) Chlorobenzene             | 8.815  | 112  | 265872   | 56.714 | ug/L   | 97       |
| 52) Ethylbenzene              | 8.947  | 91   | 434372   | 56.608 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.072  | 106  | 180046   | 59.249 | ug/L   | 92       |
| 54) o-Xylene                  | 9.477  | 106  | 175079   | 58.387 | ug/L   | 97       |
| 55) Styrene                   | 9.496  | 104  | 315351   | 60.793 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.178 | 83   | 122786   | 56.611 | ug/L   | 99       |
| 59) Bromoform                 | 9.664  | 173  | 93119    | 57.320 | ug/L   | 99       |
| 60) Isopropylbenzene          | 9.866  | 105  | 489037   | 56.663 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.210 | 75   | 99634    | 53.382 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 389086   | 55.955 | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 413370   | 57.082 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.117 | 146  | 262689   | 56.972 | ug/L   | 100      |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 265629   | 55.459 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 11.580 | 146  | 266998   | 59.067 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 30969    | 54.076 | ug/L   | 83       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 210125   | 56.893 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.197 | 180  | 193070   | 56.582 | ug/L   | 100      |
| 71) Naphthalene               | 13.438 | 128  | 410680   | 49.352 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 190340   | 57.810 | ug/L   | 98       |

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

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