

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW120822\  
 Data File : VW029484.D  
 Acq On : 08 Dec 2022 19:45  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050377

Quant Time: Dec 09 02:02:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120722WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 08 01:48:46 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.609   | 114   | 559118   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.844   | 117   | 517601   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.239  | 152   | 277341   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 131007   | 38.264   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 76.520%  |
| 7) Chloroethane-d5            | 1.561   | 69    | 111805   | 42.825   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 85.640%  |
| 11) 1,1-Dichloroethene-d2     | 2.108   | 63    | 241766   | 45.273   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.540%  |
| 21) 2-Butanone-d5             | 3.866   | 46    | 219248   | 104.973  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 104.970% |
| 24) Chloroform-d              | 4.339   | 84    | 292115   | 45.339   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.680%  |
| 26) 1,2-Dichloroethane-d4     | 5.024   | 65    | 168444   | 45.775   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.560%  |
| 32) Benzene-d6                | 5.043   | 84    | 600706   | 43.922   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.840%  |
| 36) 1,2-Dichloropropane-d6    | 6.063   | 67    | 183547   | 43.936   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 87.880%  |
| 41) Toluene-d8                | 7.307   | 98    | 563105   | 43.697   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.400%  |
| 43) trans-1,3-Dichloroprop... | 7.612   | 79    | 89068    | 42.222   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 84.440%  |
| 47) 2-Hexanone-d5             | 8.082   | 63    | 178697   | 100.170  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 100.170% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.207  | 84    | 278339   | 46.624   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 93.240%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.612  | 152   | 230590   | 43.676   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.360%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 209128   | 47.485   | ug/L   | 99       |
| 3) Chloromethane              | 1.240   | 50    | 228980   | 45.602   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.310   | 62    | 205298   | 48.867   | ug/L   | 99       |
| 6) Bromomethane               | 1.513   | 94    | 103479   | 61.215   | ug/L   | 99       |
| 8) Chloroethane               | 1.580   | 64    | 118133   | 50.499   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.751   | 101   | 262467   | 49.906   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101   | 146340   | 50.076   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.114   | 96    | 149848   | 50.140   | ug/L   | 98       |
| 13) Acetone                   | 2.156   | 43    | 128931   | 94.759   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.291   | 76    | 469386   | 47.191   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.423   | 43    | 166292   | 53.644   | ug/L   | 98       |
| 16) Methylene chloride        | 2.500   | 84    | 184588   | 49.674   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 2.754   | 96    | 171802   | 49.891   | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 2.764   | 73    | 534224   | 50.635   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.182   | 63    | 301289   | 51.072   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.902   | 96    | 188527   | 49.788   | ug/L   | 98       |
| 22) 2-Butanone                | 3.950   | 43    | 228737   | 105.653  | ug/L   | 97       |
| 23) Bromochloromethane        | 4.239   | 128   | 97603    | 50.057   | ug/L   | 94       |
| 25) Chloroform                | 4.365   | 83    | 312292   | 51.062   | ug/L   | 100      |

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 MSVOA\_V  
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 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 08 01:48:46 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.120  | 62   | 222723   | 51.552  | ug/L  | 99       |
| 29) Cyclohexane               | 4.670  | 56   | 278075   | 49.594  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.600  | 97   | 272197   | 48.268  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 4.821  | 117  | 231739   | 47.059  | ug/L  | 100      |
| 33) Benzene                   | 5.092  | 78   | 728674   | 49.944  | ug/L  | 100      |
| 34) Trichloroethene           | 5.908  | 95   | 177722   | 48.612  | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.124  | 83   | 300735   | 48.433  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.165  | 63   | 181402   | 51.515  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.503  | 83   | 231939   | 47.713  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 7.018  | 75   | 275096   | 47.502  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.220  | 43   | 459384   | 109.416 | ug/L  | 98       |
| 42) Toluene                   | 7.381  | 91   | 773507   | 49.257  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.641  | 75   | 259937   | 47.395  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.831  | 97   | 180403   | 49.589  | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.966  | 164  | 145539   | 49.514  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.133  | 43   | 353952   | 110.346 | ug/L  | 96       |
| 49) Dibromochloromethane      | 8.236  | 129  | 189289   | 47.128  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.342  | 107  | 185183   | 49.409  | ug/L  | 100      |
| 51) Chlorobenzene             | 8.873  | 112  | 490695   | 49.347  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.005  | 91   | 825251   | 49.986  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.130  | 106  | 321226   | 49.160  | ug/L  | 100      |
| 54) o-Xylene                  | 9.535  | 106  | 317004   | 49.045  | ug/L  | 98       |
| 55) Styrene                   | 9.551  | 104  | 566124   | 50.400  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.230 | 83   | 292196   | 50.211  | ug/L  | 99       |
| 59) Bromoform                 | 9.722  | 173  | 143030   | 46.686  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.921  | 105  | 841134   | 51.657  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.262 | 75   | 222428   | 51.958  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.529 | 105  | 704765   | 48.951  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.905 | 105  | 703858   | 49.320  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.172 | 146  | 389968   | 48.981  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.262 | 146  | 393284   | 48.605  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.631 | 146  | 392854   | 48.254  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.413 | 75   | 61381    | 46.132  | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 12.631 | 180  | 303462   | 47.895  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.249 | 180  | 273772   | 48.591  | ug/L  | 100      |
| 71) Naphthalene               | 13.493 | 128  | 642433   | 50.269  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.731 | 180  | 275893   | 49.994  | ug/L  | 99       |

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

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