

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW020224\  
 Data File : VW033975.D  
 Acq On : 02 Feb 2024 17:16  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050395

Quant Time: Feb 03 03:37:56 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM011024WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Feb 03 01:42:15 2024  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.535   | 114   | 204254   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786   | 117   | 188165   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185  | 152   | 99223    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 71443    | 45.511   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 91.020%  |
| 7) Chloroethane-d5            | 1.529   | 69    | 56479    | 45.432   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 90.860%  |
| 11) 1,1-Dichloroethene-d2     | 2.056   | 65    | 33146    | 49.062   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 98.120%  |
| 21) 2-Butanone-d5             | 3.783   | 46    | 89782    | 83.384   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 83.380%  |
| 24) Chloroform-d              | 4.249   | 84    | 124453   | 44.337   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 88.680%  |
| 26) 1,2-Dichloroethane-d4     | 4.940   | 65    | 81686    | 45.040   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.080%  |
| 32) Benzene-d6                | 4.960   | 84    | 232173   | 43.402   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.800%  |
| 36) 1,2-Dichloropropane-d6    | 5.989   | 67    | 69691    | 39.578   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 79.160%  |
| 41) Toluene-d8                | 7.243   | 98    | 215115   | 44.631   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 89.260%  |
| 43) trans-1,3-Dichloroprop... | 7.551   | 79    | 38211    | 43.908   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 87.820%  |
| 47) 2-Hexanone-d5             | 8.024   | 63    | 62654    | 85.781   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 85.780%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.152  | 84    | 92271    | 41.047   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 82.100%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.561  | 152   | 83576    | 44.395   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.800%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 61605    | 36.255   | ug/L   | 99       |
| 3) Chloromethane              | 1.217   | 50    | 72099    | 37.314   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.285   | 62    | 73364    | 39.689   | ug/L   | 98       |
| 6) Bromomethane               | 1.481   | 94    | 40101    | 41.509   | ug/L   | 99       |
| 8) Chloroethane               | 1.545   | 64    | 46273    | 41.981   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.712   | 101   | 118649   | 53.789   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066   | 101   | 63637    | 48.967   | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 2.069   | 96    | 59298    | 48.374   | ug/L   | 99       |
| 13) Acetone                   | 2.111   | 43    | 100197   | 97.328   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.240   | 76    | 156591   | 37.585   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.371   | 43    | 72917    | 43.315   | ug/L # | 100      |
| 16) Methylene chloride        | 2.445   | 84    | 64977    | 43.450   | ug/L   | 92       |
| 17) trans-1,2-Dichloroethene  | 2.693   | 96    | 57576    | 42.047   | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 2.703   | 73    | 225280   | 45.744   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.111   | 63    | 117092   | 41.827   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.815   | 96    | 67597    | 44.355   | ug/L   | 91       |
| 22) 2-Butanone                | 3.863   | 43    | 106531   | 85.201   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.146   | 128   | 34960    | 47.221   | ug/L # | 81       |
| 25) Chloroform                | 4.275   | 83    | 121698   | 45.850   | ug/L   | 97       |

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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050395

Quant Time: Feb 03 03:37:56 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM011024WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Feb 03 01:42:15 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.043  | 62   | 102407   | 46.193 | ug/L   | 99       |
| 29) Cyclohexane               | 4.580  | 56   | 100449   | 37.867 | ug/L   | 93       |
| 30) 1,1,1-Trichloroethane     | 4.513  | 97   | 113274   | 50.164 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 98894    | 51.309 | ug/L   | 100      |
| 33) Benzene                   | 5.011  | 78   | 242098   | 43.805 | ug/L   | 100      |
| 34) Trichloroethene           | 5.834  | 95   | 65147    | 43.943 | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.050  | 83   | 101894   | 40.161 | ug/L   | 95       |
| 37) 1,2-Dichloropropane       | 6.092  | 63   | 62887    | 41.350 | ug/L # | 97       |
| 38) Bromodichloromethane      | 6.432  | 83   | 92625    | 46.556 | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 109657   | 43.178 | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.156  | 43   | 194708   | 86.403 | ug/L   | 96       |
| 42) Toluene                   | 7.313  | 91   | 261510   | 44.762 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 106880   | 45.669 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 7.770  | 97   | 62563    | 45.339 | ug/L   | 99       |
| 46) Tetrachloroethene         | 7.905  | 164  | 50628    | 46.559 | ug/L   | 98       |
| 48) 2-Hexanone                | 8.072  | 43   | 152594   | 84.982 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.175  | 129  | 67121    | 46.704 | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 65469    | 44.895 | ug/L # | 99       |
| 51) Chlorobenzene             | 8.815  | 112  | 171241   | 46.015 | ug/L   | 97       |
| 52) Ethylbenzene              | 8.947  | 91   | 301305   | 44.528 | ug/L   | 100      |
| 53) m,p-Xylene                | 9.072  | 106  | 110455   | 44.215 | ug/L   | 97       |
| 54) o-Xylene                  | 9.477  | 106  | 111932   | 45.259 | ug/L   | 100      |
| 55) Styrene                   | 9.497  | 104  | 190560   | 44.629 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.178 | 83   | 98811    | 44.995 | ug/L   | 99       |
| 59) Bromoform                 | 9.664  | 173  | 49347    | 46.794 | ug/L   | 96       |
| 60) Isopropylbenzene          | 9.866  | 105  | 307835   | 45.854 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.210 | 75   | 78767    | 44.730 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 261811   | 45.453 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 260944   | 45.466 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.117 | 146  | 139110   | 45.875 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 137955   | 45.372 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.580 | 146  | 139419   | 47.054 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 23954    | 47.139 | ug/L   | 96       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 102067   | 45.549 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.197 | 180  | 92507    | 45.484 | ug/L   | 99       |
| 71) Naphthalene               | 13.438 | 128  | 236840   | 44.564 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 91592    | 48.248 | ug/L   | 99       |

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

