

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW031424\  
 Data File : VW034615.D  
 Acq On : 14 Mar 2024 19:50  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050289

Quant Time: Mar 15 03:40:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM022924WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 15 03:33:21 2024  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|-----------|-------|----------|---------|----------|----------|
| -----                         |           |       |          |         |          |          |
| Internal Standards            |           |       |          |         |          |          |
| 1) 1,4-Difluorobenzene        | 5.532     | 114   | 300771   | 50.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 8.783     | 117   | 281343   | 50.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185    | 152   | 149006   | 50.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |           |       |          |         |          |          |
| 4) Vinyl Chloride-d3          | 1.278     | 65    | 138537   | 53.133  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 60  | - 135 | Recovery | =       | 106.260% |          |
| 7) Chloroethane-d5            | 1.532     | 69    | 113399   | 55.825  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 130 | Recovery | =       | 111.660% |          |
| 11) 1,1-Dichloroethene-d2     | 2.056     | 65    | 61879    | 52.476  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 60  | - 125 | Recovery | =       | 104.960% |          |
| 21) 2-Butanone-d5             | 3.793     | 46    | 205908   | 118.090 | ug/L     | 0.00     |
| Spiked Amount 100.000         | Range 40  | - 130 | Recovery | =       | 118.090% |          |
| 24) Chloroform-d              | 4.246     | 84    | 254997   | 55.313  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 125 | Recovery | =       | 110.620% |          |
| 26) 1,2-Dichloroethane-d4     | 4.941     | 65    | 164905   | 54.739  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 125 | Recovery | =       | 109.480% |          |
| 32) Benzene-d6                | 4.960     | 84    | 477775   | 56.268  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 125 | Recovery | =       | 112.540% |          |
| 36) 1,2-Dichloropropane-d6    | 5.989     | 67    | 142660   | 55.054  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 120 | Recovery | =       | 110.100% |          |
| 41) Toluene-d8                | 7.243     | 98    | 419970   | 54.655  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 80  | - 120 | Recovery | =       | 109.320% |          |
| 43) trans-1,3-Dichloroprop... | 7.551     | 79    | 66936    | 51.439  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 60  | - 125 | Recovery | =       | 102.880% |          |
| 47) 2-Hexanone-d5             | 8.024     | 63    | 144488   | 111.662 | ug/L     | 0.00     |
| Spiked Amount 100.000         | Range 45  | - 130 | Recovery | =       | 111.660% |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.153    | 84    | 191125   | 56.047  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 65  | - 120 | Recovery | =       | 112.100% |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.561    | 152   | 160027   | 52.541  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 80  | - 120 | Recovery | =       | 105.080% |          |
| Target Compounds              |           |       |          |         |          |          |
|                               |           |       |          |         | Qvalue   |          |
| 2) Dichlorodifluoromethane    | 1.105     | 85    | 155066   | 49.151  | ug/L     | 99       |
| 3) Chloromethane              | 1.214     | 50    | 153696   | 49.579  | ug/L     | 99       |
| 5) Vinyl chloride             | 1.282     | 62    | 155522   | 51.682  | ug/L     | 98       |
| 6) Bromomethane               | 1.487     | 94    | 91540    | 50.701  | ug/L     | 98       |
| 8) Chloroethane               | 1.548     | 64    | 92305    | 51.608  | ug/L     | 99       |
| 9) Trichlorofluoromethane     | 1.712     | 101   | 226553   | 50.274  | ug/L     | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066     | 101   | 123368   | 50.795  | ug/L     | 99       |
| 12) 1,1-Dichloroethene        | 2.069     | 96    | 115210   | 51.155  | ug/L     | 98       |
| 13) Acetone                   | 2.127     | 43    | 152435   | 72.721  | ug/L     | 97       |
| 14) Carbon disulfide          | 2.240     | 76    | 324999   | 51.997  | ug/L     | 100      |
| 15) Methyl Acetate            | 2.375     | 43    | 160217   | 59.745  | ug/L     | 100      |
| 16) Methylene chloride        | 2.445     | 84    | 132490   | 55.459  | ug/L     | 98       |
| 17) trans-1,2-Dichloroethene  | 2.693     | 96    | 117777   | 54.030  | ug/L     | 98       |
| 18) Methyl tert-butyl Ether   | 2.703     | 73    | 440115   | 56.222  | ug/L     | 99       |
| 19) 1,1-Dichloroethane        | 3.111     | 63    | 243114   | 56.933  | ug/L     | 99       |
| 20) cis-1,2-Dichloroethene    | 3.812     | 96    | 133496   | 56.443  | ug/L     | 95       |
| 22) 2-Butanone                | 3.876     | 43    | 210118   | 101.511 | ug/L     | 99       |
| 23) Bromochloromethane        | 4.146     | 128   | 70615    | 57.739  | ug/L     | 96       |
| 25) Chloroform                | 4.275     | 83    | 243774   | 55.078  | ug/L     | 99       |

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Instrument :  
 MSVOA\_V  
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 VSTD050289

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 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 15 03:33:21 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.040  | 62   | 197524   | 54.929  | ug/L  | 100      |
| 29) Cyclohexane               | 4.580  | 56   | 195347   | 52.788  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.510  | 97   | 222502   | 55.151  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 193512   | 54.176  | ug/L  | 99       |
| 33) Benzene                   | 5.008  | 78   | 494507   | 56.626  | ug/L  | 100      |
| 34) Trichloroethene           | 5.831  | 95   | 128101   | 51.605  | ug/L  | 95       |
| 35) Methylcyclohexane         | 6.050  | 83   | 189855   | 50.308  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.092  | 63   | 127292   | 55.675  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.432  | 83   | 175382   | 54.534  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 206382   | 55.714  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.156  | 43   | 398933   | 118.330 | ug/L  | 100      |
| 42) Toluene                   | 7.313  | 91   | 504283   | 54.562  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 192617   | 54.065  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 125006   | 56.666  | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.905  | 164  | 93584    | 50.692  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.075  | 43   | 309381   | 115.163 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.175  | 129  | 130243   | 55.947  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 134525   | 57.467  | ug/L  | 96       |
| 51) Chlorobenzene             | 8.812  | 112  | 322146   | 53.915  | ug/L  | 100      |
| 52) Ethylbenzene              | 8.944  | 91   | 558233   | 53.904  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.072  | 106  | 210088   | 53.459  | ug/L  | 100      |
| 54) o-Xylene                  | 9.477  | 106  | 207591   | 53.945  | ug/L  | 99       |
| 55) Styrene                   | 9.493  | 104  | 363639   | 55.811  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 194001   | 58.551  | ug/L  | 99       |
| 59) Bromoform                 | 9.664  | 173  | 89609    | 54.241  | ug/L  | 100      |
| 60) Isopropylbenzene          | 9.866  | 105  | 568535   | 53.948  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 162706   | 57.203  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 475250   | 53.461  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 475070   | 54.033  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.117 | 146  | 256678   | 52.678  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 261290   | 52.806  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 257419   | 52.723  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 48123    | 56.797  | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 180713   | 49.438  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.197 | 180  | 164184   | 49.918  | ug/L  | 99       |
| 71) Naphthalene               | 13.439 | 128  | 450139   | 51.163  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 167293   | 52.138  | ug/L  | 98       |

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

