

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW072622\  
 Data File : VW026970.D  
 Acq On : 26 Jul 2022 22:52  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

Quant Time: Jul 27 01:46:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM072222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 27 01:39:23 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.612   | 114   | 512718   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.850   | 117   | 510915   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249  | 152   | 284333   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 175152   | 40.731   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 81.460%  |
| 7) Chloroethane-d5            | 1.564   | 69    | 154266   | 44.344   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 88.680%  |
| 11) 1,1-Dichloroethene-d2     | 2.105   | 63    | 341970   | 44.203   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.400%  |
| 21) 2-Butanone-d5             | 3.883   | 46    | 316462   | 109.180  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 109.180% |
| 24) Chloroform-d              | 4.342   | 84    | 405784   | 47.948   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.900%  |
| 26) 1,2-Dichloroethane-d4     | 5.027   | 65    | 231328   | 47.785   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.580%  |
| 32) Benzene-d6                | 5.043   | 84    | 777502   | 50.344   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.680% |
| 36) 1,2-Dichloropropane-d6    | 6.066   | 67    | 247651   | 49.759   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 99.520%  |
| 41) Toluene-d8                | 7.313   | 98    | 698207   | 51.670   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 103.340% |
| 43) trans-1,3-Dichloroprop... | 7.619   | 79    | 106735   | 51.182   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 102.360% |
| 47) 2-Hexanone-d5             | 8.088   | 63    | 231797   | 106.964  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 106.960% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.214  | 84    | 395176   | 52.267   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 104.540% |
| 66) 1,2-Dichlorobenzene-d4    | 11.622  | 152   | 277272   | 51.979   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 103.960% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 238713   | 45.068   | ug/L   | 100      |
| 3) Chloromethane              | 1.240   | 50    | 232154   | 46.869   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.307   | 62    | 254734   | 48.379   | ug/L   | 100      |
| 6) Bromomethane               | 1.519   | 94    | 163975   | 51.539   | ug/L   | 100      |
| 8) Chloroethane               | 1.581   | 64    | 153930   | 49.751   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.748   | 101   | 356107   | 49.073   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.111   | 101   | 209669   | 49.402   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.114   | 96    | 197934   | 49.929   | ug/L   | 89       |
| 13) Acetone                   | 2.175   | 43    | 249804   | 122.741  | ug/L   | 97       |
| 14) Carbon disulfide          | 2.288   | 76    | 536347   | 47.419   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.429   | 43    | 241993   | 53.908   | ug/L   | 99       |
| 16) Methylene chloride        | 2.500   | 84    | 272333   | 53.892   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 2.754   | 96    | 214789   | 51.276   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.767   | 73    | 660824   | 56.790   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.185   | 63    | 406651   | 52.712   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.905   | 96    | 240888   | 54.567   | ug/L   | 98       |
| 22) 2-Butanone                | 3.966   | 43    | 346444   | 124.810  | ug/L   | 99       |
| 23) Bromochloromethane        | 4.243   | 128   | 132977   | 52.605   | ug/L   | 98       |
| 25) Chloroform                | 4.371   | 83    | 429687   | 52.223   | ug/L   | 99       |

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 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

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 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 27 01:39:23 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.127  | 62   | 302136   | 52.038  | ug/L  | 99       |
| 29) Cyclohexane               | 4.674  | 56   | 298711   | 55.910  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane     | 4.603  | 97   | 369818   | 54.785  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.825  | 117  | 312919   | 52.944  | ug/L  | 100      |
| 33) Benzene                   | 5.095  | 78   | 924635   | 56.275  | ug/L  | 100      |
| 34) Trichloroethene           | 5.912  | 95   | 226476   | 53.639  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.130  | 83   | 334858   | 53.564  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.169  | 63   | 242139   | 56.623  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.506  | 83   | 314042   | 54.180  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.024  | 75   | 320471   | 53.998  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.223  | 43   | 620865   | 122.000 | ug/L  | 99       |
| 42) Toluene                   | 7.384  | 91   | 972449   | 57.985  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 7.648  | 75   | 319070   | 54.517  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 7.837  | 97   | 252906   | 55.535  | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.973  | 164  | 175094   | 53.162  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.137  | 43   | 504262   | 127.314 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.243  | 129  | 260287   | 54.684  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.349  | 107  | 257022   | 55.164  | ug/L  | 98       |
| 51) Chlorobenzene             | 8.879  | 112  | 632146   | 54.076  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.011  | 91   | 995268   | 57.173  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.136  | 106  | 393172   | 57.682  | ug/L  | 100      |
| 54) o-Xylene                  | 9.542  | 106  | 388503   | 59.181  | ug/L  | 99       |
| 55) Styrene                   | 9.558  | 104  | 699928   | 60.371  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.239 | 83   | 410210   | 55.802  | ug/L  | 99       |
| 59) Bromoform                 | 9.728  | 173  | 178041   | 56.047  | ug/L  | 100      |
| 60) Isopropylbenzene          | 9.931  | 105  | 1005037  | 59.813  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.271 | 75   | 322287   | 56.487  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.538 | 105  | 817427   | 59.857  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.915 | 105  | 825651   | 60.276  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.178 | 146  | 481524   | 56.088  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.271 | 146  | 493517   | 54.251  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 11.641 | 146  | 495144   | 56.213  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.426 | 75   | 83617    | 54.855  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 12.644 | 180  | 320784   | 52.780  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.262 | 180  | 269232   | 52.575  | ug/L  | 100      |
| 71) Naphthalene               | 13.500 | 128  | 946057   | 58.749  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.741 | 180  | 305642   | 57.218  | ug/L  | 99       |

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

