

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120823\  
 Data File : VX039093.D  
 Acq On : 08 Dec 2023 09:40  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Dec 09 00:27:42 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X112423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 4.891  | 128   | 49008    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757  | 114   | 287868   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049 | 117   | 271141   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.952  | 65    | 114656   | 17.101   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 57.000%# |
| 60) 4-Bromofluorobenzene     | 11.085 | 95    | 946      | 0.160    | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 0.533%#  |
| 63) Toluene-d8               | 8.647  | 98    | 326834   | 30.488   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 101.633% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166  | 85    | 109143   | 14.879   | ug/l   | 98       |
| 3) Chloromethane             | 1.294  | 50    | 107764   | 12.831   | ug/l   | 96       |
| 4) Vinyl Chloride            | 1.374  | 62    | 107093   | 12.630   | ug/l   | 99       |
| 5) Bromomethane              | 1.605  | 94    | 62475    | 12.046   | ug/l   | 98       |
| 6) Chloroethane              | 1.691  | 64    | 62443    | 12.646   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.892  | 101   | 144705   | 12.365   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331  | 101   | 93429    | 14.128   | ug/l   | 99       |
| 10) 1,1-Dichloroethene       | 2.319  | 96    | 87467    | 13.121   | ug/l # | 85       |
| 11) Methyl Iodide            | 2.453  | 142   | 10270    | 1.406    | ug/l   | 93       |
| 12) Methyl Acetate           | 2.697  | 43    | 127099   | 6.113    | ug/l   | 99       |
| 14) Acrylonitrile            | 3.105  | 53    | 3203     | 0.630    | ug/l # | 18       |
| 15) Acetone                  | 2.373  | 58    | 63472    | 34.339   | ug/l   | 100      |
| 16) Carbon Disulfide         | 2.514  | 76    | 273511   | 13.547   | ug/l   | 97       |
| 18) Methylene Chloride       | 2.788  | 84    | 99068    | 12.537   | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 3.087  | 96    | 91519    | 12.139   | ug/l   | 98       |
| 21) 1,1-Dichloroethane       | 3.605  | 63    | 178661   | 12.760   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.483  | 96    | 105485   | 12.073   | ug/l   | 91       |
| 23) tert-Butyl Alcohol       | 2.940  | 59    | 3619     | 1.286    | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.105  | 73    | 313959   | 12.785   | ug/l   | 100      |
| 25) Chloroform               | 5.086  | 83    | 179545   | 12.776   | ug/l   | 95       |
| 26) Cyclohexane              | 5.464  | 56    | 174834   | 13.796   | ug/l # | 98       |
| 30) 2-Butanone               | 4.544  | 43    | 237776   | 39.136   | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.440  | 77    | 43029    | 4.664    | ug/l # | 71       |
| 32) 1,1,1-Trichloroethane    | 5.379  | 97    | 152675   | 16.369   | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 5.672  | 117   | 127631   | 16.245   | ug/l   | 95       |
| 34) Benzene                  | 6.031  | 78    | 398325   | 16.944   | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 6.080  | 62    | 144039   | 16.699   | ug/l   | 100      |
| 37) Trichloroethene          | 7.123  | 130   | 98946    | 16.584   | ug/l   | 100      |
| 38) Methylcyclohexane        | 7.373  | 83    | 175215   | 17.426   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 7.427  | 63    | 109712   | 17.696   | ug/l   | 98       |
| 40) Dibromomethane           | 7.580  | 93    | 1012     | 0.231    | ug/l   | 89       |
| 41) Bromodichloromethane     | 7.818  | 83    | 133879   | 15.909   | ug/l   | 98       |
| 45) 1,4-Dioxane              | 7.818  | 88    | 52       | 0.309    | ug/l # | 1        |
| 46) Methyl methacrylate      | 7.373  | 41    | 81417    | 8.642    | ug/l   | 73       |
| 48) t-1,3-Dichloropropene    | 8.976  | 75    | 165330   | 16.943   | ug/l   | 95       |
| 49) cis-1,3-Dichloropropene  | 8.360  | 75    | 177180   | 17.602   | ug/l   | 100      |
| 50) 1,1,2-Trichloroethane    | 9.147  | 97    | 102055   | 17.151   | ug/l   | 97       |
| 52) 1,3-Dichloropropane      | 9.378  | 76    | 13518    | 1.325    | ug/l   | 43       |
| 53) Dibromochloromethane     | 9.518  | 129   | 100876   | 15.785   | ug/l   | 99       |

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 107441   | 16.465 | ug/l   | 100      |
| 56) Bromoform                 | 10.799 | 173  | 74604    | 16.175 | ug/l   | 98       |
| 58) 4-Methyl-2-Pentanone      | 8.567  | 43   | 360572   | 43.853 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 319937   | 47.404 | ug/l   | 98       |
| 61) Tetrachloroethene         | 9.269  | 164  | 71578    | 20.304 | ug/l   | 96       |
| 62) Toluene                   | 8.714  | 91   | 425384   | 22.098 | ug/l   | 99       |
| 64) Chlorobenzene             | 10.079 | 112  | 260781   | 22.271 | ug/l   | 99       |
| 66) Ethyl Benzene             | 10.189 | 91   | 478987   | 21.852 | ug/l   | 98       |
| 67) m/p-Xylenes               | 10.299 | 106  | 177752   | 21.945 | ug/l   | 100      |
| 68) o-Xylene                  | 10.640 | 106  | 170319   | 21.708 | ug/l   | 99       |
| 69) Styrene                   | 10.652 | 104  | 293690   | 25.292 | ug/l   | 99       |
| 70) Isopropylbenzene          | 10.957 | 105  | 464924   | 22.147 | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 173663   | 22.160 | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 135564   | 20.443 | ug/l   | 90       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 391347   | 21.639 | ug/l   | 100      |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 43941    | 2.477  | ug/l # | 46       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 386162   | 21.335 | ug/l   | 99       |
| 81) sec-Butylbenzene          | 11.750 | 105  | 386162   | 17.763 | ug/l   | 58       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 197322   | 21.573 | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 196801   | 20.970 | ug/l   | 99       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 189159   | 21.507 | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 41813    | 20.862 | ug/l   | 99       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 121812   | 20.889 | ug/l   | 98       |
| 91) Naphthalene               | 13.774 | 128  | 414310   | 19.265 | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 117578   | 20.816 | ug/l   | 98       |

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

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