Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101823\
Data File : VU055803.D
Acq On : 18 Oct 2023 17:06
Operator : MD/SY
Sample : 04699-07
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 19 04:19:55 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U101823DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Oct 19 04:18:56 2023
Response via : Initial Calibration

**Instrument :**
MSVOA_U
**ClientSampleId :**
LOD-MDL-WATER-01-QT4-2023

**Manual Integrations APPROVED**

Reviewed By :John Carlone 10/19/2023
Supervised By :Mahesh Dadoda 10/24/2023

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 6.113 | 96 | 95116 | 1.000 | ug/l | # 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 57) 4-Bromofluorobenzene | 10.634 | 95 | 33906 | 0.904 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 90.000% | | | |
| 68) 1,2-Dichlorobenzene-d4 | 12.190 | 152 | 31591 | 0.908 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 91.000% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.383 | 85 | 12962 | 0.351 | ug/l | 99 |
| 3) Chloromethane | 1.515 | 50 | 12183 | 0.386 | ug/l | 95 |
| 4) Vinyl Chloride | 1.602 | 62 | 11600 | 0.359 | ug/l | 96 |
| 5) Bromomethane | 1.856 | 94 | 7962 | 0.447 | ug/l | 98 |
| 6) Chloroethane | 1.933 | 64 | 5713 | 0.365 | ug/l | 97 |
| 7) Trichlorofluoromethane | 2.136 | 101 | 15213 | 0.357 | ug/l | 96 |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.579 | 101 | 10047 | 0.353 | ug/l | 93 |
| 9) 1,1-Dichloroethene | 2.579 | 96 | 9241 | 0.348 | ug/l | 93 |
| 10) Iodomethane | 2.721 | 142 | 11779 | 0.298 | ug/l | 91 |
| 11) Allyl Chloride | 2.923 | 41 | 12313 | 0.357 | ug/l | 100 |
| 12) Acrylonitrile | 3.341 | 53 | 3712m | 0.745 | ug/l | |
| 13) Acetone | 2.644 | 43 | 18144 | 1.706 | ug/l | 92 |
| 14) Carbon Disulfide | 2.792 | 76 | 31767 | 0.367 | ug/l | 100 |
| 15) Methylene Chloride | 3.039 | 84 | 14699 | 0.470 | ug/l | 92 |
| 16) trans-1,2-Dichloroethene | 3.354 | 96 | 10700 | 0.381 | ug/l | 89 |
| 17) 1,1-Dichloroethane | 3.862 | 63 | 19674 | 0.376 | ug/l | 97 |
| 18) 2-Butanone | 4.734 | 43 | 17471 | 1.525 | ug/l | 97 |
| 19) Cyclohexane | 5.386 | 56 | 14880m | 0.334 | ug/l | |
| 20) Methylcyclohexane | 6.759 | 83 | 14491 | 0.313 | ug/l | 94 |
| 21) 2,2-Dichloropropane | 4.660 | 77 | 16483 | 0.374 | ug/l | 97 |
| 22) cis-1,2-Dichloroethene | 4.666 | 96 | 10825 | 0.361 | ug/l | 99 |
| 23) Diethyl Ether | 2.374 | 59 | 6002 | 0.378 | ug/l | 97 |
| 24) tert-Butyl Alcohol | 3.190 | 59 | 8986m | 5.524 | ug/l | |
| 25) Methyl tert-Butyl Ether | 3.361 | 73 | 19858 | 0.348 | ug/l | 99 |
| 26) Bromochloromethane | 4.981 | 128 | 4661 | 0.367 | ug/l | 95 |
| 27) Chloroform | 5.084 | 83 | 20485 | 0.382 | ug/l | 91 |
| 28) 1,1,1-Trichloroethane | 5.309 | 97 | 16996 | 0.353 | ug/l | 96 |
| 29) 1,1-Dichloropropene | 5.525 | 75 | 13249 | 0.348 | ug/l | 99 |
| 30) Carbon Tetrachloride | 5.518 | 117 | 14106 | 0.336 | ug/l | 92 |
| 31) Isopropyl Ether | 3.988 | 45 | 25341 | 0.361 | ug/l | 99 |
| 32) Ethyl-t-butyl ether | 4.496 | 59 | 24672 | 0.364 | ug/l | 96 |
| 33) Tert-Amyl methyl ether | 5.936 | 73 | 21278 | 0.366 | ug/l | 98 |
| 34) Propionitrile | 4.827 | 54 | 2841m | 1.567 | ug/l | |
| 35) Benzene | 5.772 | 78 | 40455 | 0.351 | ug/l | 98 |
| 36) 1,2-Dichloroethane | 5.798 | 62 | 12196 | 0.389 | ug/l | 99 |
| 37) Trichloroethene | 6.544 | 130 | 11422 | 0.380 | ug/l | 94 |
| 38) 1,2-Dichloropropane | 6.788 | 63 | 11405 | 0.378 | ug/l | 91 |
| 39) Methacrylonitrile | 4.994 | 41 | 2000 | 0.296 | ug/l # | 81 |
| 40) Methyl acrylate | 4.882 | 55 | 3848m | 0.353 | ug/l | |
| 41) Tetrahydrofuran | 5.074 | 42 | 2629m | 0.686 | ug/l | |
| 42) 1-Chlorobutane | 5.460 | 56 | 18530 | 0.365 | ug/l | 92 |
| 43) Dibromomethane | 6.917 | 93 | 5194 | 0.363 | ug/l | 95 |
| 44) Bromodichloromethane | 7.106 | 83 | 13979 | 0.369 | ug/l | 100 |

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Quant Time: Oct 19 04:19:55 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U101823DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Oct 19 04:18:56 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 45) 4-Methyl-2-Pentanone | 7.791 | 43 | 26861 | 1.813 | ug/l | | 99 |
| 46) t-1,4-Dichloro-2-butene | 10.839 | 75 | 2490m | 0.423 | ug/l | | |
| 47) Methyl methacrylate | 6.965 | 69 | 7862 | 0.665 | ug/l | | 93 |
| 48) Ethyl methacrylate | 8.338 | 69 | 7568 | 0.337 | ug/l | | 93 |
| 49) Toluene | 7.968 | 92 | 22970 | 0.336 | ug/l | | 95 |
| 50) t-1,3-Dichloropropene | 8.209 | 75 | 11240 | 0.336 | ug/l | | 92 |
| 51) cis-1,3-Dichloropropene | 7.608 | 75 | 13710 | 0.334 | ug/l | | 95 |
| 52) 1,1,2-Trichloroethane | 8.402 | 97 | 7800 | 0.381 | ug/l | | 94 |
| 53) 1,3-Dichloropropane | 8.573 | 76 | 12913 | 0.369 | ug/l | | 100 |
| 54) 2-Hexanone | 8.692 | 43 | 26414 | 1.592 | ug/l | | 97 |
| 55) Dibromochloromethane | 8.807 | 129 | 8713 | 0.353 | ug/l | | 99 |
| 56) 1,2-Dibromoethane | 8.923 | 107 | 6759 | 0.362 | ug/l | | 95 |
| 58) Tetrachloroethene | 8.550 | 164 | 12514 | 0.401 | ug/l | | 95 |
| 59) Chlorobenzene | 9.447 | 112 | 26460 | 0.351 | ug/l | | 98 |
| 60) 1,1,1,2-Tetrachloroethane | 9.531 | 131 | 9338 | 0.347 | ug/l | | 98 |
| 61) Pentachloroethane | 11.421 | 117 | 6786 | 0.373 | ug/l | | 100 |
| 62) Hexachloroethane | 12.466 | 117 | 5605 | 0.291 | ug/l | | 99 |
| 63) Ethyl Benzene | 9.569 | 91 | 44093 | 0.344 | ug/l | | 100 |
| 64) m/p-Xylenes | 9.692 | 106 | 30387 | 0.618 | ug/l | | 95 |
| 65) o-Xylene | 10.100 | 106 | 15624 | 0.324 | ug/l | | 92 |
| 66) Styrene | 10.116 | 104 | 23317 | 0.309 | ug/l | | 95 |
| 67) Bromoform | 10.290 | 173 | 4421 | 0.333 | ug/l | | 95 |
| 69) Isopropylbenzene | 10.483 | 105 | 39408 | 0.317 | ug/l | | 99 |
| 70) 1,1,2,2-Tetrachloroethane | 10.778 | 83 | 8598 | 0.359 | ug/l | # | 98 |
| 71) 1,2,3-Trichloropropane | 10.817 | 75 | 7729m | 0.390 | ug/l | | |
| 72) Bromobenzene | 10.782 | 156 | 11220 | 0.378 | ug/l | | 92 |
| 73) n-propylbenzene | 10.907 | 120 | 9967 | 0.311 | ug/l | | 98 |
| 74) 2-Chlorotoluene | 10.987 | 126 | 10078 | 0.338 | ug/l | | 98 |
| 75) 1,3,5-Trimethylbenzene | 11.087 | 105 | 33244 | 0.313 | ug/l | | 94 |
| 76) 4-Chlorotoluene | 11.100 | 126 | 10397 | 0.342 | ug/l | | 95 |
| 77) tert-Butylbenzene | 11.418 | 119 | 29567 | 0.304 | ug/l | | 95 |
| 78) 1,2,4-Trimethylbenzene | 11.466 | 105 | 32330 | 0.307 | ug/l | | 98 |
| 79) sec-Butylbenzene | 11.640 | 105 | 38269 | 0.311 | ug/l | | 98 |
| 80) Nitrobenzene | 13.241 | 77 | 1265 | 1.999 | ug/l | # | 55 |
| 81) p-Isopropyltoluene | 11.791 | 119 | 32665 | 0.330 | ug/l | | 99 |
| 82) 1,3-Dichlorobenzene | 11.746 | 146 | 21792 | 0.360 | ug/l | | 97 |
| 83) 1,4-Dichlorobenzene | 11.839 | 146 | 22153 | 0.378 | ug/l | | 98 |
| 84) n-Butylbenzene | 12.206 | 91 | 33701 | 0.399 | ug/l | | 99 |
| 85) 1,2-Dichlorobenzene | 12.212 | 146 | 20803 | 0.376 | ug/l | | 97 |
| 86) 1,2-Dibromo-3-Chloropr... | 13.007 | 75 | 1267 | 0.371 | ug/l | # | 60 |
| 87) 1,2,4-Trichlorobenzene | 13.839 | 180 | 13358 | 0.445 | ug/l | | 97 |
| 88) Hexachlorobutadiene | 14.016 | 225 | 7430 | 0.356 | ug/l | | 93 |
| 89) Naphthalene | 14.090 | 128 | 23146 | 0.530 | ug/l | | 96 |
| 90) 1,2,3-Trichlorobenzene | 14.331 | 180 | 12188 | 0.473 | ug/l | | 97 |

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

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