

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU073024\  
 Data File : VU060265.D  
 Acq On : 30 Jul 2024 15:11  
 Operator : MD/SY  
 Sample : VSTDICC0.5  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Jul 31 04:33:17 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U073024DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jul 31 04:32:50 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.107  | 96   | 41385    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.630 | 95   | 12518    | 0.897 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 90.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 13297    | 0.887 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 89.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.383  | 85   | 7179     | 0.484 | ug/l    | 97       |
| 3) Chloromethane             | 1.522  | 50   | 9263     | 0.519 | ug/l    | 96       |
| 4) Vinyl Chloride            | 1.605  | 62   | 7967     | 0.461 | ug/l    | 98       |
| 5) Bromomethane              | 1.849  | 94   | 5606     | 0.534 | ug/l    | 90       |
| 6) Chloroethane              | 1.927  | 64   | 5363     | 0.517 | ug/l    | 93       |
| 7) Trichlorofluoromethane    | 2.136  | 101  | 9576     | 0.491 | ug/l    | 100      |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101  | 5345     | 0.490 | ug/l    | 99       |
| 9) 1,1-Dichloroethene        | 2.576  | 96   | 5001     | 0.450 | ug/l    | 86       |
| 10) Iodomethane              | 2.718  | 142  | 6370     | 0.471 | ug/l    | 99       |
| 11) Allyl Chloride           | 2.917  | 41   | 8062     | 0.502 | ug/l    | 95       |
| 12) Acrylonitrile            | 3.309  | 53   | 3424     | 1.095 | ug/l    | 91       |
| 13) Acetone                  | 2.621  | 43   | 10249    | 2.685 | ug/l    | 91       |
| 14) Carbon Disulfide         | 2.788  | 76   | 18451    | 0.470 | ug/l    | 98       |
| 15) Methylene Chloride       | 3.039  | 84   | 9974     | 0.643 | ug/l    | 87       |
| 16) trans-1,2-Dichloroethene | 3.345  | 96   | 5813     | 0.474 | ug/l    | 97       |
| 17) 1,1-Dichloroethane       | 3.862  | 63   | 11173    | 0.475 | ug/l    | 96       |
| 18) 2-Butanone               | 4.714  | 43   | 12320    | 2.846 | ug/l    | 95       |
| 19) Cyclohexane              | 5.370  | 56   | 10302m   | 0.485 | ug/l    |          |
| 20) Methylcyclohexane        | 6.753  | 83   | 7255     | 0.433 | ug/l    | 96       |
| 21) 2,2-Dichloropropane      | 4.656  | 77   | 8668     | 0.496 | ug/l    | 98       |
| 22) cis-1,2-Dichloroethene   | 4.660  | 96   | 6475     | 0.491 | ug/l    | 92       |
| 23) Diethyl Ether            | 2.374  | 59   | 4755     | 0.500 | ug/l    | 96       |
| 24) tert-Butyl Alcohol       | 3.184  | 59   | 5499     | 5.048 | ug/l #  | 91       |
| 25) Methyl tert-Butyl Ether  | 3.364  | 73   | 13532    | 0.474 | ug/l    | 95       |
| 26) Bromochloromethane       | 4.962  | 128  | 2824     | 0.532 | ug/l    | 91       |
| 27) Chloroform               | 5.078  | 83   | 11450    | 0.502 | ug/l    | 98       |
| 28) 1,1,1-Trichloroethane    | 5.303  | 97   | 8844     | 0.471 | ug/l    | 94       |
| 29) 1,1-Dichloropropene      | 5.515  | 75   | 6991     | 0.459 | ug/l    | 93       |
| 30) Carbon Tetrachloride     | 5.508  | 117  | 7015     | 0.460 | ug/l    | 91       |
| 31) Isopropyl Ether          | 3.994  | 45   | 16533    | 0.467 | ug/l    | 93       |
| 32) Ethyl-t-butyl ether      | 4.505  | 59   | 14810    | 0.447 | ug/l    | 93       |
| 33) Tert-Amyl methyl ether   | 5.949  | 73   | 10418    | 0.439 | ug/l    | 98       |
| 34) Propionitrile            | 4.775  | 54   | 3376     | 2.737 | ug/l #  | 88       |
| 35) Benzene                  | 5.766  | 78   | 21256    | 0.449 | ug/l    | 99       |
| 36) 1,2-Dichloroethane       | 5.791  | 62   | 6914     | 0.506 | ug/l #  | 93       |
| 37) Trichloroethene          | 6.537  | 130  | 5992     | 0.513 | ug/l    | 92       |
| 38) 1,2-Dichloropropane      | 6.788  | 63   | 5945     | 0.451 | ug/l    | 92       |
| 39) Methacrylonitrile        | 4.978  | 41   | 2713     | 0.573 | ug/l #  | 81       |
| 40) Methyl acrylate          | 4.859  | 55   | 3942     | 0.507 | ug/l #  | 93       |
| 41) Tetrahydrofuran          | 5.068  | 42   | 2473     | 1.005 | ug/l #  | 79       |
| 42) 1-Chlorobutane           | 5.447  | 56   | 10222    | 0.476 | ug/l    | 92       |
| 43) Dibromomethane           | 6.914  | 93   | 3191     | 0.489 | ug/l    | 95       |
| 44) Bromodichloromethane     | 7.107  | 83   | 7049     | 0.452 | ug/l #  | 98       |

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 ClientSampleId :  
 VSTDICC0.5

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 QLast Update : Wed Jul 31 04:32:50 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.801  | 43   | 13849    | 2.110 | ug/l   | 91       |
| 46) t-1,4-Dichloro-2-butene   | 10.833 | 75   | 2231m    | 0.812 | ug/l   |          |
| 47) Methyl methacrylate       | 6.975  | 69   | 4773     | 0.838 | ug/l   | 87       |
| 48) Ethyl methacrylate        | 8.338  | 69   | 3688     | 0.615 | ug/l   | 90       |
| 49) Toluene                   | 7.968  | 92   | 10587    | 0.403 | ug/l   | 99       |
| 50) t-1,3-Dichloropropene     | 8.213  | 75   | 5560     | 0.423 | ug/l   | 99       |
| 51) cis-1,3-Dichloropropene   | 7.608  | 75   | 6687     | 0.427 | ug/l   | 95       |
| 52) 1,1,2-Trichloroethane     | 8.399  | 97   | 4485     | 0.476 | ug/l   | 88       |
| 53) 1,3-Dichloropropane       | 8.576  | 76   | 6792     | 0.438 | ug/l   | 95       |
| 54) 2-Hexanone                | 8.692  | 43   | 10565    | 2.157 | ug/l   | 97       |
| 55) Dibromochloromethane      | 8.807  | 129  | 4721     | 0.456 | ug/l   | 100      |
| 56) 1,2-Dibromoethane         | 8.923  | 107  | 3695     | 0.435 | ug/l   | 87       |
| 58) Tetrachloroethene         | 8.547  | 164  | 4959     | 0.448 | ug/l   | 94       |
| 59) Chlorobenzene             | 9.444  | 112  | 12184    | 0.432 | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.531  | 131  | 4948     | 0.456 | ug/l   | 98       |
| 61) Pentachloroethane         | 11.421 | 117  | 3974     | 0.462 | ug/l   | 93       |
| 62) Hexachloroethane          | 12.470 | 117  | 3902     | 0.456 | ug/l   | 99       |
| 63) Ethyl Benzene             | 9.569  | 91   | 16615    | 0.629 | ug/l   | 94       |
| 64) m/p-Xylenes               | 9.692  | 106  | 12622    | 1.327 | ug/l   | 89       |
| 65) o-Xylene                  | 10.097 | 106  | 6697     | 0.636 | ug/l   | 85       |
| 66) Styrene                   | 10.113 | 104  | 9321     | 0.657 | ug/l   | 97       |
| 67) Bromoform                 | 10.290 | 173  | 2901     | 0.476 | ug/l # | 89       |
| 69) Isopropylbenzene          | 10.483 | 105  | 15435    | 0.598 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 5591     | 0.443 | ug/l # | 91       |
| 71) 1,2,3-Trichloropropane    | 10.820 | 75   | 4034m    | 0.441 | ug/l   |          |
| 72) Bromobenzene              | 10.782 | 156  | 4876     | 0.426 | ug/l   | 97       |
| 73) n-propylbenzene           | 10.904 | 120  | 4228     | 0.625 | ug/l   | 86       |
| 74) 2-Chlorotoluene           | 10.984 | 126  | 4563     | 0.399 | ug/l   | 82       |
| 75) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 12283    | 0.635 | ug/l   | 97       |
| 76) 4-Chlorotoluene           | 11.100 | 126  | 4428     | 0.655 | ug/l   | 77       |
| 77) tert-Butylbenzene         | 11.415 | 119  | 12556    | 0.550 | ug/l   | 96       |
| 78) 1,2,4-Trimethylbenzene    | 11.466 | 105  | 10653    | 0.642 | ug/l   | 95       |
| 79) sec-Butylbenzene          | 11.640 | 105  | 15714    | 0.588 | ug/l   | 97       |
| 80) Nitrobenzene              | 13.238 | 77   | 1535m    | 2.613 | ug/l   |          |
| 81) p-Isopropyltoluene        | 11.791 | 119  | 12318    | 0.647 | ug/l   | 96       |
| 82) 1,3-Dichlorobenzene       | 11.743 | 146  | 9285     | 0.401 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene       | 11.836 | 146  | 9303m    | 0.407 | ug/l   |          |
| 84) n-Butylbenzene            | 12.206 | 91   | 11746    | 0.617 | ug/l   | 98       |
| 85) 1,2-Dichlorobenzene       | 12.209 | 146  | 9185     | 0.409 | ug/l   | 97       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.997 | 75   | 879      | 0.493 | ug/l # | 78       |
| 87) 1,2,4-Trichlorobenzene    | 13.846 | 180  | 4757     | 0.404 | ug/l   | 96       |
| 88) Hexachlorobutadiene       | 14.016 | 225  | 3557     | 0.459 | ug/l   | 94       |
| 89) Naphthalene               | 14.093 | 128  | 7580     | 0.520 | ug/l # | 94       |
| 90) 1,2,3-Trichlorobenzene    | 14.331 | 180  | 4201     | 0.572 | ug/l   | 96       |

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

