

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020624\  
 Data File : VU057815.D  
 Acq On : 06 Feb 2024 11:16  
 Operator : MD/SY  
 Sample : VU0206WBSD01  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0206WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/14/2024  
 Supervised By : Mahesh Dadoda 02/14/2024

Quant Time: Feb 07 02:59:06 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U020524DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 06 02:05:40 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Fluorobenzene             | 6.107  | 96   | 44788    | 1.000  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 57) 4-Bromofluorobenzene     | 10.630 | 95   | 15283    | 0.930  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 93.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 13662    | 0.940  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 94.000% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.380  | 85   | 28784    | 1.965  | ug/l    | 100      |
| 3) Chloromethane             | 1.518  | 50   | 29086    | 2.069  | ug/l    | 98       |
| 4) Vinyl Chloride            | 1.602  | 62   | 29703    | 2.046  | ug/l    | 98       |
| 5) Bromomethane              | 1.856  | 94   | 18828    | 2.148  | ug/l    | 98       |
| 6) Chloroethane              | 1.930  | 64   | 19228    | 2.058  | ug/l    | 98       |
| 7) Trichlorofluoromethane    | 2.129  | 101  | 45145    | 2.053  | ug/l    | 99       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.573  | 101  | 21862    | 1.989  | ug/l    | 94       |
| 9) 1,1-Dichloroethene        | 2.570  | 96   | 21498    | 1.994  | ug/l    | 98       |
| 10) Iodomethane              | 2.711  | 142  | 34400    | 1.985  | ug/l    | 93       |
| 11) Allyl Chloride           | 2.914  | 41   | 32902    | 2.000  | ug/l    | 89       |
| 12) Acrylonitrile            | 3.319  | 53   | 9549     | 4.197  | ug/l #  | 95       |
| 13) Acetone                  | 2.644  | 43   | 37438    | 8.401  | ug/l    | 99       |
| 14) Carbon Disulfide         | 2.782  | 76   | 68880    | 1.999  | ug/l    | 99       |
| 15) Methylene Chloride       | 3.033  | 84   | 27745    | 2.004  | ug/l    | 97       |
| 16) trans-1,2-Dichloroethene | 3.341  | 96   | 23865    | 2.040  | ug/l    | 89       |
| 17) 1,1-Dichloroethane       | 3.856  | 63   | 48919    | 2.081  | ug/l    | 99       |
| 18) 2-Butanone               | 4.721  | 43   | 42356    | 9.480  | ug/l    | 100      |
| 19) Cyclohexane              | 5.373  | 56   | 37909    | 2.052  | ug/l    | 96       |
| 20) Methylcyclohexane        | 6.753  | 83   | 42062    | 1.967  | ug/l    | 99       |
| 21) 2,2-Dichloropropane      | 4.653  | 77   | 43258    | 2.043  | ug/l    | 96       |
| 22) cis-1,2-Dichloroethene   | 4.660  | 96   | 25255    | 1.960  | ug/l    | 88       |
| 23) Diethyl Ether            | 2.367  | 59   | 17646    | 2.121  | ug/l    | 98       |
| 24) tert-Butyl Alcohol       | 3.255  | 59   | 8650m    | 14.333 | ug/l    |          |
| 25) Methyl tert-Butyl Ether  | 3.357  | 73   | 58519    | 2.132  | ug/l    | 96       |
| 26) Bromochloromethane       | 4.965  | 128  | 10126    | 2.019  | ug/l    | 91       |
| 27) Chloroform               | 5.081  | 83   | 48867    | 2.084  | ug/l    | 99       |
| 28) 1,1,1-Trichloroethane    | 5.303  | 97   | 43125    | 2.030  | ug/l    | 98       |
| 29) 1,1-Dichloropropene      | 5.515  | 75   | 34961    | 2.003  | ug/l    | 96       |
| 30) Carbon Tetrachloride     | 5.512  | 117  | 36469    | 2.004  | ug/l    | 99       |
| 31) Isopropyl Ether          | 3.988  | 45   | 75749    | 2.099  | ug/l    | 94       |
| 32) Ethyl-t-butyl ether      | 4.499  | 59   | 74008    | 2.085  | ug/l    | 96       |
| 33) Tert-Amyl methyl ether   | 5.943  | 73   | 61004    | 2.053  | ug/l    | 99       |
| 34) Propionitrile            | 4.795  | 54   | 9877     | 11.846 | ug/l #  | 9        |
| 35) Benzene                  | 5.766  | 78   | 101980   | 2.040  | ug/l    | 100      |
| 36) 1,2-Dichloroethane       | 5.788  | 62   | 29900    | 2.046  | ug/l    | 98       |
| 37) Trichloroethene          | 6.534  | 130  | 25731    | 1.999  | ug/l    | 95       |
| 38) 1,2-Dichloropropane      | 6.785  | 63   | 27285    | 2.064  | ug/l    | 100      |
| 39) Methacrylonitrile        | 4.978  | 41   | 8152     | 2.244  | ug/l #  | 88       |
| 40) Methyl acrylate          | 4.849  | 55   | 11741    | 1.940  | ug/l #  | 96       |
| 41) Tetrahydrofuran          | 5.068  | 42   | 8162     | 4.508  | ug/l    | 91       |
| 42) 1-Chlorobutane           | 5.447  | 56   | 46840    | 2.021  | ug/l    | 97       |
| 43) Dibromomethane           | 6.914  | 93   | 12922    | 2.129  | ug/l    | 95       |
| 44) Bromodichloromethane     | 7.100  | 83   | 32409    | 1.965  | ug/l    | 98       |

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Quant Time: Feb 07 02:59:06 2024  
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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 06 02:05:40 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.795  | 43   | 68464    | 10.091 | ug/l  | 98       |
| 46) t-1,4-Dichloro-2-butene   | 10.839 | 75   | 6264m    | 3.442  | ug/l  |          |
| 47) Methyl methacrylate       | 6.965  | 69   | 22812    | 4.100  | ug/l  | 91       |
| 48) Ethyl methacrylate        | 8.335  | 69   | 22293    | 1.997  | ug/l  | 93       |
| 49) Toluene                   | 7.965  | 92   | 61630    | 2.039  | ug/l  | 98       |
| 50) t-1,3-Dichloropropene     | 8.206  | 75   | 29580    | 1.972  | ug/l  | 95       |
| 51) cis-1,3-Dichloropropene   | 7.605  | 75   | 36805    | 1.967  | ug/l  | 92       |
| 52) 1,1,2-Trichloroethane     | 8.396  | 97   | 16987    | 2.033  | ug/l  | 92       |
| 53) 1,3-Dichloropropane       | 8.573  | 76   | 31262    | 2.061  | ug/l  | 100      |
| 54) 2-Hexanone                | 8.692  | 43   | 59578    | 9.069  | ug/l  | 97       |
| 55) Dibromochloromethane      | 8.804  | 129  | 20275    | 2.032  | ug/l  | 99       |
| 56) 1,2-Dibromoethane         | 8.920  | 107  | 16053    | 2.051  | ug/l  | 97       |
| 58) Tetrachloroethene         | 8.547  | 164  | 22571    | 2.022  | ug/l  | 96       |
| 59) Chlorobenzene             | 9.441  | 112  | 66892    | 2.013  | ug/l  | 100      |
| 60) 1,1,1,2-Tetrachloroethane | 9.528  | 131  | 22439    | 1.969  | ug/l  | 99       |
| 61) Pentachloroethane         | 11.421 | 117  | 16962    | 2.019  | ug/l  | 91       |
| 62) Hexachloroethane          | 12.470 | 117  | 18376    | 1.888  | ug/l  | 97       |
| 63) Ethyl Benzene             | 9.566  | 91   | 118600   | 1.983  | ug/l  | 99       |
| 64) m/p-Xylenes               | 9.688  | 106  | 87351    | 3.986  | ug/l  | 96       |
| 65) o-Xylene                  | 10.097 | 106  | 43256    | 1.987  | ug/l  | 95       |
| 66) Styrene                   | 10.110 | 104  | 66495    | 1.978  | ug/l  | 96       |
| 67) Bromoform                 | 10.286 | 173  | 9781     | 1.948  | ug/l  | 99       |
| 69) Isopropylbenzene          | 10.479 | 105  | 114843   | 1.988  | ug/l  | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 20713    | 2.059  | ug/l  | 99       |
| 71) 1,2,3-Trichloropropane    | 10.827 | 75   | 18688m   | 2.102  | ug/l  |          |
| 72) Bromobenzene              | 10.778 | 156  | 24470    | 1.978  | ug/l  | 94       |
| 73) n-propylbenzene           | 10.901 | 120  | 28774    | 1.910  | ug/l  | 96       |
| 74) 2-Chlorotoluene           | 10.981 | 126  | 26065    | 1.980  | ug/l  | 94       |
| 75) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 97392    | 1.995  | ug/l  | 96       |
| 76) 4-Chlorotoluene           | 11.093 | 126  | 26037    | 1.964  | ug/l  | 94       |
| 77) tert-Butylbenzene         | 11.415 | 119  | 92526    | 1.967  | ug/l  | 97       |
| 78) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 97511    | 1.975  | ug/l  | 97       |
| 79) sec-Butylbenzene          | 11.637 | 105  | 123189   | 1.983  | ug/l  | 99       |
| 80) Nitrobenzene              | 13.209 | 77   | 2566     | 9.506  | ug/l  | 89       |
| 81) p-Isopropyltoluene        | 11.788 | 119  | 99278    | 1.944  | ug/l  | 98       |
| 82) 1,3-Dichlorobenzene       | 11.743 | 146  | 49283    | 1.993  | ug/l  | 98       |
| 83) 1,4-Dichlorobenzene       | 11.833 | 146  | 48259    | 1.970  | ug/l  | 97       |
| 84) n-Butylbenzene            | 12.203 | 91   | 94526    | 1.939  | ug/l  | 100      |
| 85) 1,2-Dichlorobenzene       | 12.209 | 146  | 45931    | 1.999  | ug/l  | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.994 | 75   | 3133     | 1.865  | ug/l  | 93       |
| 87) 1,2,4-Trichlorobenzene    | 13.836 | 180  | 27696    | 1.975  | ug/l  | 99       |
| 88) Hexachlorobutadiene       | 14.016 | 225  | 17856    | 2.032  | ug/l  | 97       |
| 89) Naphthalene               | 14.084 | 128  | 45020    | 1.833  | ug/l  | 98       |
| 90) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 23065    | 1.917  | ug/l  | 99       |

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

