

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111224\  
 Data File : VU061596.D  
 Acq On : 12 Nov 2024 09:32  
 Operator : MD/SY  
 Sample : VSTDICC001  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICC001

Quant Time: Nov 13 04:41:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U111224DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Nov 13 04:39:24 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024  
 Supervised By :Mahesh Dadoda 11/13/2024

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.107  | 96   | 47781    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.631 | 95   | 15751    | 0.950 | ug/l    | 0.00     |
| Spiked Amount                | 1.000  |      | Recovery | =     | 95.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 15152    | 0.918 | ug/l    | 0.00     |
| Spiked Amount                | 1.000  |      | Recovery | =     | 92.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.384  | 85   | 11397    | 0.928 | ug/l    | 99       |
| 3) Chloromethane             | 1.515  | 50   | 11026    | 0.939 | ug/l    | 97       |
| 4) Vinyl Chloride            | 1.599  | 62   | 12157    | 0.920 | ug/l    | 93       |
| 5) Bromomethane              | 1.853  | 94   | 7651     | 0.917 | ug/l    | 98       |
| 6) Chloroethane              | 1.930  | 64   | 9932     | 0.929 | ug/l    | 99       |
| 7) Trichlorofluoromethane    | 2.133  | 101  | 17434    | 0.922 | ug/l    | 99       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.573  | 101  | 9412     | 0.930 | ug/l    | 97       |
| 9) 1,1-Dichloroethene        | 2.573  | 96   | 9967     | 0.940 | ug/l    | 96       |
| 10) Iodomethane              | 2.715  | 142  | 6330     | 1.201 | ug/l    | 97       |
| 11) Allyl Chloride           | 2.917  | 41   | 10878    | 0.886 | ug/l    | 96       |
| 12) Acrylonitrile            | 3.338  | 53   | 3571m    | 1.702 | ug/l    |          |
| 13) Acetone                  | 2.647  | 43   | 15051    | 5.140 | ug/l    | 99       |
| 14) Carbon Disulfide         | 2.789  | 76   | 31986    | 0.933 | ug/l    | 100      |
| 15) Methylene Chloride       | 3.039  | 84   | 12168    | 0.950 | ug/l    | 97       |
| 16) trans-1,2-Dichloroethene | 3.348  | 96   | 11388    | 0.924 | ug/l    | 93       |
| 17) 1,1-Dichloroethane       | 3.863  | 63   | 20647    | 0.940 | ug/l    | 99       |
| 18) 2-Butanone               | 4.731  | 43   | 16588    | 4.885 | ug/l    | 93       |
| 19) Cyclohexane              | 5.377  | 56   | 15902m   | 0.892 | ug/l    |          |
| 20) Methylcyclohexane        | 6.753  | 83   | 16822    | 0.841 | ug/l    | 98       |
| 21) 2,2-Dichloropropane      | 4.654  | 77   | 15865    | 0.898 | ug/l    | 98       |
| 22) cis-1,2-Dichloroethene   | 4.666  | 96   | 11517    | 0.857 | ug/l    | 90       |
| 23) Diethyl Ether            | 2.371  | 59   | 7476     | 0.946 | ug/l    | 98       |
| 24) tert-Butyl Alcohol       | 3.242  | 59   | 7258m    | 9.003 | ug/l    |          |
| 25) Methyl tert-Butyl Ether  | 3.355  | 73   | 23228    | 0.893 | ug/l    | 97       |
| 26) Bromochloromethane       | 4.972  | 128  | 5378     | 0.908 | ug/l    | 97       |
| 27) Chloroform               | 5.081  | 83   | 21486    | 0.922 | ug/l    | 100      |
| 28) 1,1,1-Trichloroethane    | 5.309  | 97   | 17626    | 0.915 | ug/l    | 99       |
| 29) 1,1-Dichloropropene      | 5.522  | 75   | 15259    | 0.882 | ug/l    | 99       |
| 30) Carbon Tetrachloride     | 5.515  | 117  | 14465    | 0.876 | ug/l    | 98       |
| 31) Isopropyl Ether          | 3.985  | 45   | 26050    | 0.891 | ug/l    | 100      |
| 32) Ethyl-t-butyl ether      | 4.490  | 59   | 24465    | 0.875 | ug/l    | 99       |
| 33) Tert-Amyl methyl ether   | 5.933  | 73   | 21217    | 0.840 | ug/l    | 99       |
| 34) Propionitrile            | 4.827  | 54   | 3622m    | 4.564 | ug/l    |          |
| 35) Benzene                  | 5.769  | 78   | 47730    | 0.926 | ug/l    | 100      |
| 36) 1,2-Dichloroethane       | 5.792  | 62   | 13235    | 0.924 | ug/l    | 96       |
| 37) Trichloroethene          | 6.538  | 130  | 13025    | 0.954 | ug/l    | 94       |
| 38) 1,2-Dichloropropane      | 6.782  | 63   | 11386    | 0.879 | ug/l    | 99       |
| 39) Methacrylonitrile        | 4.998  | 41   | 2418     | 0.851 | ug/l    | # 71     |
| 40) Methyl acrylate          | 4.875  | 55   | 4692m    | 0.913 | ug/l    |          |
| 41) Tetrahydrofuran          | 5.071  | 42   | 2899     | 1.807 | ug/l    | # 86     |
| 42) 1-Chlorobutane           | 5.451  | 56   | 18424    | 0.853 | ug/l    | 98       |
| 43) Dibromomethane           | 6.914  | 93   | 6285     | 0.917 | ug/l    | 92       |
| 44) Bromodichloromethane     | 7.097  | 83   | 13419    | 0.867 | ug/l    | 98       |

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 Acq On : 12 Nov 2024 09:32  
 Operator : MD/SY  
 Sample : VSTDICC001  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024  
 Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:41:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U111224DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Nov 13 04:39:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.788  | 43   | 27784    | 4.356 | ug/l   | 98       |
| 46) t-1,4-Dichloro-2-butene   | 10.820 | 75   | 6585m    | 1.867 | ug/l   |          |
| 47) Methyl methacrylate       | 6.965  | 69   | 8731     | 1.604 | ug/l   | 91       |
| 48) Ethyl methacrylate        | 8.332  | 69   | 8893     | 0.804 | ug/l   | 95       |
| 49) Toluene                   | 7.965  | 92   | 28084    | 0.892 | ug/l   | 98       |
| 50) t-1,3-Dichloropropene     | 8.210  | 75   | 11637    | 0.840 | ug/l   | 98       |
| 51) cis-1,3-Dichloropropene   | 7.602  | 75   | 15113    | 0.850 | ug/l   | 97       |
| 52) 1,1,2-Trichloroethane     | 8.393  | 97   | 8379     | 0.891 | ug/l   | 94       |
| 53) 1,3-Dichloropropane       | 8.570  | 76   | 14619    | 0.911 | ug/l   | 99       |
| 54) 2-Hexanone                | 8.685  | 43   | 23641    | 4.350 | ug/l   | 98       |
| 55) Dibromochloromethane      | 8.804  | 129  | 8771     | 0.862 | ug/l   | 97       |
| 56) 1,2-Dibromoethane         | 8.917  | 107  | 7832     | 0.887 | ug/l   | 100      |
| 58) Tetrachloroethene         | 8.547  | 164  | 11373    | 0.926 | ug/l   | 98       |
| 59) Chlorobenzene             | 9.444  | 112  | 30694    | 0.882 | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.525  | 131  | 9928     | 0.865 | ug/l   | 97       |
| 61) Pentachloroethane         | 11.422 | 117  | 6923     | 0.801 | ug/l   | 97       |
| 62) Hexachloroethane          | 12.467 | 117  | 5845     | 0.976 | ug/l   | 99       |
| 63) Ethyl Benzene             | 9.563  | 91   | 49794    | 0.850 | ug/l   | 97       |
| 64) m/p-Xylenes               | 9.689  | 106  | 36695    | 1.627 | ug/l   | 100      |
| 65) o-Xylene                  | 10.094 | 106  | 18216    | 0.828 | ug/l   | 98       |
| 66) Styrene                   | 10.113 | 104  | 26880    | 0.934 | ug/l   | 98       |
| 67) Bromoform                 | 10.284 | 173  | 4269     | 0.809 | ug/l # | 99       |
| 69) Isopropylbenzene          | 10.476 | 105  | 42818    | 0.832 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 10123    | 0.875 | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane    | 10.820 | 75   | 8750m    | 0.928 | ug/l   |          |
| 72) Bromobenzene              | 10.779 | 156  | 12198    | 0.894 | ug/l   | 87       |
| 73) n-propylbenzene           | 10.901 | 120  | 11941    | 0.785 | ug/l   | 93       |
| 74) 2-Chlorotoluene           | 10.981 | 126  | 11658    | 0.859 | ug/l   | 99       |
| 75) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 36860    | 0.791 | ug/l   | 97       |
| 76) 4-Chlorotoluene           | 11.094 | 126  | 11134    | 0.798 | ug/l   | 93       |
| 77) tert-Butylbenzene         | 11.412 | 119  | 36896    | 0.812 | ug/l   | 98       |
| 78) 1,2,4-Trimethylbenzene    | 11.464 | 105  | 37299    | 0.908 | ug/l   | 100      |
| 79) sec-Butylbenzene          | 11.637 | 105  | 48996    | 0.813 | ug/l   | 98       |
| 80) Nitrobenzene              | 13.219 | 77   | 393m     | 6.108 | ug/l   |          |
| 81) p-Isopropyltoluene        | 11.785 | 119  | 37419    | 0.897 | ug/l   | 98       |
| 82) 1,3-Dichlorobenzene       | 11.743 | 146  | 22590    | 0.856 | ug/l   | 99       |
| 83) 1,4-Dichlorobenzene       | 11.833 | 146  | 22185    | 0.840 | ug/l   | 96       |
| 84) n-Butylbenzene            | 12.203 | 91   | 35029    | 0.906 | ug/l   | 98       |
| 85) 1,2-Dichlorobenzene       | 12.209 | 146  | 20984    | 0.843 | ug/l   | 96       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.994 | 75   | 1133     | 0.984 | ug/l   | 87       |
| 87) 1,2,4-Trichlorobenzene    | 13.836 | 180  | 10383    | 1.020 | ug/l   | 96       |
| 88) Hexachlorobutadiene       | 14.013 | 225  | 7082     | 0.852 | ug/l   | 98       |
| 89) Naphthalene               | 14.090 | 128  | 15413    | 1.089 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 9970     | 1.060 | ug/l   | 98       |

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

