

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021125\  
 Data File : VU063231.D  
 Acq On : 11 Feb 2025 12:31  
 Operator : MD/SY  
 Sample : VU0211WBSD01  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0211WBSD01

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 02/12/2025  
 Supervised By :Mahesh Dadoda 02/12/2025

Quant Time: Feb 12 03:17:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U021025DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 11 08:42:19 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units    | Dev(Min) |
|------------------------------|--------|------|----------|--------|----------|----------|
| -----                        |        |      |          |        |          |          |
| Internal Standards           |        |      |          |        |          |          |
| 1) Fluorobenzene             | 6.103  | 96   | 54780    | 1.000  | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |          |          |
| 57) 4-Bromofluorobenzene     | 10.627 | 95   | 18663    | 1.033  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 103.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.183 | 152  | 18049    | 0.961  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 96.000%  |          |
| Target Compounds             |        |      |          |        |          |          |
|                              |        |      |          |        |          | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.380  | 85   | 33113    | 1.860  | ug/l     | 98       |
| 3) Chloromethane             | 1.515  | 50   | 37175    | 1.814  | ug/l     | 97       |
| 4) Vinyl Chloride            | 1.599  | 62   | 38868    | 1.917  | ug/l     | 100      |
| 5) Bromomethane              | 1.846  | 94   | 21592    | 2.179  | ug/l     | 93       |
| 6) Chloroethane              | 1.923  | 64   | 22977    | 1.799  | ug/l     | 96       |
| 7) Trichlorofluoromethane    | 2.129  | 101  | 46922    | 1.953  | ug/l     | 98       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.570  | 101  | 26150    | 1.917  | ug/l     | 99       |
| 9) 1,1-Dichloroethene        | 2.570  | 96   | 26901    | 1.936  | ug/l     | 98       |
| 10) Iodomethane              | 2.711  | 142  | 40470    | 1.852  | ug/l     | 100      |
| 11) Allyl Chloride           | 2.914  | 41   | 35836    | 1.795  | ug/l     | 93       |
| 12) Acrylonitrile            | 3.322  | 53   | 11247    | 3.509  | ug/l     | 97       |
| 13) Acetone                  | 2.624  | 43   | 21459    | 8.706  | ug/l     | 97       |
| 14) Carbon Disulfide         | 2.782  | 76   | 91922    | 1.892  | ug/l     | 99       |
| 15) Methylene Chloride       | 3.033  | 84   | 32676    | 1.903  | ug/l     | 95       |
| 16) trans-1,2-Dichloroethene | 3.341  | 96   | 29942    | 1.888  | ug/l     | 97       |
| 17) 1,1-Dichloroethane       | 3.856  | 63   | 56108    | 1.877  | ug/l     | 99       |
| 18) 2-Butanone               | 4.711  | 43   | 34023    | 8.673  | ug/l     | 97       |
| 19) Cyclohexane              | 5.377  | 56   | 44912m   | 1.869  | ug/l     |          |
| 20) Methylcyclohexane        | 6.750  | 83   | 44579    | 1.871  | ug/l     | 98       |
| 21) 2,2-Dichloropropane      | 4.650  | 77   | 44541    | 1.910  | ug/l     | 98       |
| 22) cis-1,2-Dichloroethene   | 4.656  | 96   | 32128    | 1.875  | ug/l     | 97       |
| 23) Diethyl Ether            | 2.367  | 59   | 21752    | 1.824  | ug/l     | 99       |
| 24) tert-Butyl Alcohol       | 3.184  | 59   | 20987    | 11.463 | ug/l     | # 87     |
| 25) Methyl tert-Butyl Ether  | 3.351  | 73   | 64764    | 1.866  | ug/l     | 100      |
| 26) Bromochloromethane       | 4.962  | 128  | 14122    | 1.885  | ug/l     | 98       |
| 27) Chloroform               | 5.074  | 83   | 57379    | 1.902  | ug/l     | 100      |
| 28) 1,1,1-Trichloroethane    | 5.303  | 97   | 47038    | 1.925  | ug/l     | 99       |
| 29) 1,1-Dichloropropene      | 5.515  | 75   | 41492    | 1.895  | ug/l     | 99       |
| 30) Carbon Tetrachloride     | 5.512  | 117  | 39937    | 1.905  | ug/l     | 93       |
| 31) Isopropyl Ether          | 3.978  | 45   | 78534    | 1.840  | ug/l     | 98       |
| 32) Ethyl-t-butyl ether      | 4.489  | 59   | 71285    | 1.836  | ug/l     | 99       |
| 33) Tert-Amyl methyl ether   | 5.926  | 73   | 64175    | 1.892  | ug/l     | 99       |
| 34) Propionitrile            | 4.782  | 54   | 10345    | 8.743  | ug/l     | # 89     |
| 35) Benzene                  | 5.762  | 78   | 127531   | 1.895  | ug/l     | 99       |
| 36) 1,2-Dichloroethane       | 5.785  | 62   | 35880    | 1.847  | ug/l     | 98       |
| 37) Trichloroethene          | 6.534  | 130  | 31454    | 1.965  | ug/l     | 95       |
| 38) 1,2-Dichloropropane      | 6.778  | 63   | 33332    | 1.892  | ug/l     | 98       |
| 39) Methacrylonitrile        | 4.975  | 41   | 7882     | 1.788  | ug/l     | 93       |
| 40) Methyl acrylate          | 4.856  | 55   | 14998m   | 1.846  | ug/l     |          |
| 41) Tetrahydrofuran          | 5.052  | 42   | 9149     | 3.568  | ug/l     | 94       |
| 42) 1-Chlorobutane           | 5.447  | 56   | 54703    | 1.826  | ug/l     | 98       |
| 43) Dibromomethane           | 6.907  | 93   | 16512    | 1.851  | ug/l     | 98       |
| 44) Bromodichloromethane     | 7.094  | 83   | 40544    | 1.953  | ug/l     | 100      |

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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 11 08:42:19 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.782  | 43   | 84721    | 9.059 | ug/l  | 98       |
| 46) t-1,4-Dichloro-2-butene   | 10.823 | 75   | 15342m   | 3.490 | ug/l  |          |
| 47) Methyl methacrylate       | 6.955  | 69   | 27905    | 3.714 | ug/l  | 99       |
| 48) Ethyl methacrylate        | 8.328  | 69   | 26666    | 1.890 | ug/l  | 97       |
| 49) Toluene                   | 7.958  | 92   | 73665    | 1.903 | ug/l  | 98       |
| 50) t-1,3-Dichloropropene     | 8.203  | 75   | 35883    | 1.888 | ug/l  | 98       |
| 51) cis-1,3-Dichloropropene   | 7.598  | 75   | 44229    | 1.884 | ug/l  | 99       |
| 52) 1,1,2-Trichloroethane     | 8.389  | 97   | 22475    | 1.869 | ug/l  | 95       |
| 53) 1,3-Dichloropropane       | 8.566  | 76   | 39762    | 1.862 | ug/l  | 99       |
| 54) 2-Hexanone                | 8.679  | 43   | 55875    | 8.755 | ug/l  | 96       |
| 55) Dibromochloromethane      | 8.798  | 129  | 25680    | 1.856 | ug/l  | 96       |
| 56) 1,2-Dibromoethane         | 8.913  | 107  | 21428    | 1.899 | ug/l  | 99       |
| 58) Tetrachloroethene         | 8.544  | 164  | 26480    | 2.007 | ug/l  | 99       |
| 59) Chlorobenzene             | 9.438  | 112  | 78809    | 1.929 | ug/l  | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.524  | 131  | 27412    | 1.867 | ug/l  | 98       |
| 61) Pentachloroethane         | 11.415 | 117  | 23456    | 1.788 | ug/l  | 98       |
| 62) Hexachloroethane          | 12.463 | 117  | 20644    | 1.779 | ug/l  | 100      |
| 63) Ethyl Benzene             | 9.560  | 91   | 129864   | 1.843 | ug/l  | 98       |
| 64) m/p-Xylenes               | 9.685  | 106  | 97083    | 3.689 | ug/l  | 97       |
| 65) o-Xylene                  | 10.090 | 106  | 47893    | 1.859 | ug/l  | 99       |
| 66) Styrene                   | 10.106 | 104  | 74164    | 1.809 | ug/l  | 98       |
| 67) Bromoform                 | 10.280 | 173  | 14362    | 1.829 | ug/l  | 99       |
| 69) Isopropylbenzene          | 10.473 | 105  | 113031   | 1.866 | ug/l  | 99       |
| 70) 1,1,2,2-Tetrachloroethane | 10.772 | 83   | 30438    | 1.878 | ug/l  | 98       |
| 71) 1,2,3-Trichloropropane    | 10.814 | 75   | 22418m   | 1.841 | ug/l  |          |
| 72) Bromobenzene              | 10.775 | 156  | 31774    | 1.947 | ug/l  | 87       |
| 73) n-propylbenzene           | 10.894 | 120  | 32378    | 1.867 | ug/l  | 97       |
| 74) 2-Chlorotoluene           | 10.978 | 126  | 30928    | 1.935 | ug/l  | 97       |
| 75) 1,3,5-Trimethylbenzene    | 11.077 | 105  | 105240   | 1.875 | ug/l  | 99       |
| 76) 4-Chlorotoluene           | 11.090 | 126  | 31460    | 1.920 | ug/l  | 98       |
| 77) tert-Butylbenzene         | 11.408 | 119  | 105468   | 1.858 | ug/l  | 99       |
| 78) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 100273   | 1.801 | ug/l  | 99       |
| 79) sec-Butylbenzene          | 11.634 | 105  | 137558   | 1.904 | ug/l  | 99       |
| 80) Nitrobenzene              | 13.219 | 77   | 3153m    | 9.901 | ug/l  |          |
| 81) p-Isopropyltoluene        | 11.781 | 119  | 105707   | 1.854 | ug/l  | 99       |
| 82) 1,3-Dichlorobenzene       | 11.736 | 146  | 59568    | 1.882 | ug/l  | 100      |
| 83) 1,4-Dichlorobenzene       | 11.830 | 146  | 57308    | 1.851 | ug/l  | 96       |
| 84) n-Butylbenzene            | 12.199 | 91   | 94788    | 1.854 | ug/l  | 99       |
| 85) 1,2-Dichlorobenzene       | 12.203 | 146  | 57519    | 1.891 | ug/l  | 97       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.987 | 75   | 4147     | 1.822 | ug/l  | 97       |
| 87) 1,2,4-Trichlorobenzene    | 13.833 | 180  | 30065    | 2.027 | ug/l  | 97       |
| 88) Hexachlorobutadiene       | 14.010 | 225  | 20647    | 1.948 | ug/l  | 97       |
| 89) Naphthalene               | 14.084 | 128  | 46812    | 2.069 | ug/l  | 97       |
| 90) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 28334    | 1.952 | ug/l  | 98       |

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

