

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062425\  
 Data File : VU063432.D  
 Acq On : 24 Jun 2025 11:48  
 Operator : MD/SY  
 Sample : VU0624WBS01  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0624WBS01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025  
 Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 06:22:35 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U062325DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jun 25 03:53:43 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units    | Dev(Min) |
|------------------------------|--------|------|----------|--------|----------|----------|
| -----                        |        |      |          |        |          |          |
| Internal Standards           |        |      |          |        |          |          |
| 1) Fluorobenzene             | 6.103  | 96   | 50423    | 1.000  | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |          |          |
| 57) 4-Bromofluorobenzene     | 10.627 | 95   | 18541    | 1.002  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 100.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.187 | 152  | 18461    | 0.993  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 99.000%  |          |
| Target Compounds             |        |      |          |        |          |          |
|                              |        |      |          |        |          | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.383  | 85   | 37732    | 1.948  | ug/l     | 98       |
| 3) Chloromethane             | 1.518  | 50   | 42308    | 1.658  | ug/l     | 99       |
| 4) Vinyl Chloride            | 1.599  | 62   | 36052    | 1.650  | ug/l     | 100      |
| 5) Bromomethane              | 1.849  | 94   | 20046    | 1.915  | ug/l     | 100      |
| 6) Chloroethane              | 1.927  | 64   | 18221    | 1.408  | ug/l     | 96       |
| 7) Trichlorofluoromethane    | 2.129  | 101  | 42938    | 1.724  | ug/l     | 97       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.566  | 101  | 21761    | 1.640  | ug/l     | 91       |
| 9) 1,1-Dichloroethene        | 2.566  | 96   | 22342    | 1.687  | ug/l     | 85       |
| 10) Iodomethane              | 2.708  | 142  | 17112    | 1.601  | ug/l     | 98       |
| 11) Allyl Chloride           | 2.907  | 41   | 27398    | 1.162  | ug/l     | 89       |
| 12) Acrylonitrile            | 3.309  | 53   | 10077    | 2.634  | ug/l     | # 86     |
| 13) Acetone                  | 2.621  | 43   | 17584    | 4.617  | ug/l     | 99       |
| 14) Carbon Disulfide         | 2.775  | 76   | 67706    | 1.466  | ug/l     | 97       |
| 15) Methylene Chloride       | 3.029  | 84   | 26324    | 1.569  | ug/l     | 87       |
| 16) trans-1,2-Dichloroethene | 3.335  | 96   | 25844    | 1.735  | ug/l     | 85       |
| 17) 1,1-Dichloroethane       | 3.849  | 63   | 63500    | 2.030  | ug/l     | 99       |
| 18) 2-Butanone               | 4.721  | 43   | 46546    | 8.719  | ug/l     | 99       |
| 19) Cyclohexane              | 5.361  | 56   | 43798    | 1.851  | ug/l     | 99       |
| 20) Methylcyclohexane        | 6.746  | 83   | 37512    | 1.707  | ug/l     | 94       |
| 21) 2,2-Dichloropropane      | 4.644  | 77   | 42918    | 1.930  | ug/l     | 99       |
| 22) cis-1,2-Dichloroethene   | 4.647  | 96   | 32017    | 1.969  | ug/l     | 100      |
| 23) Diethyl Ether            | 2.370  | 59   | 16242    | 1.360  | ug/l     | 89       |
| 24) tert-Butyl Alcohol       | 3.203  | 59   | 17502    | 13.907 | ug/l     | 99       |
| 25) Methyl tert-Butyl Ether  | 3.361  | 73   | 57010    | 1.583  | ug/l     | 99       |
| 26) Bromochloromethane       | 4.959  | 128  | 12581    | 1.988  | ug/l     | 99       |
| 27) Chloroform               | 5.071  | 83   | 57998    | 1.978  | ug/l     | 96       |
| 28) 1,1,1-Trichloroethane    | 5.296  | 97   | 47422    | 1.994  | ug/l     | 97       |
| 29) 1,1-Dichloropropene      | 5.505  | 75   | 43165    | 1.987  | ug/l     | 96       |
| 30) Carbon Tetrachloride     | 5.502  | 117  | 37915    | 1.997  | ug/l     | 98       |
| 31) Isopropyl Ether          | 3.997  | 45   | 97025    | 1.985  | ug/l     | 97       |
| 32) Ethyl-t-butyl ether      | 4.505  | 59   | 80511    | 1.944  | ug/l     | 100      |
| 33) Tert-Amyl methyl ether   | 5.946  | 73   | 52925    | 1.785  | ug/l     | 98       |
| 34) Propionitrile            | 4.782  | 54   | 15425    | 9.989  | ug/l     | 99       |
| 35) Benzene                  | 5.759  | 78   | 133266   | 2.028  | ug/l     | 99       |
| 36) 1,2-Dichloroethane       | 5.788  | 62   | 37941    | 1.975  | ug/l     | 100      |
| 37) Trichloroethene          | 6.531  | 130  | 29814    | 1.920  | ug/l     | 98       |
| 38) 1,2-Dichloropropane      | 6.785  | 63   | 35505    | 1.957  | ug/l     | 99       |
| 39) Methacrylonitrile        | 4.975  | 41   | 12237m   | 1.905  | ug/l     |          |
| 40) Methyl acrylate          | 4.856  | 55   | 16865    | 1.870  | ug/l     | # 96     |
| 41) Tetrahydrofuran          | 5.065  | 42   | 12759    | 3.692  | ug/l     | 99       |
| 42) 1-Chlorobutane           | 5.441  | 56   | 55270    | 1.794  | ug/l     | 99       |
| 43) Dibromomethane           | 6.914  | 93   | 16966    | 2.001  | ug/l     | 95       |
| 44) Bromodichloromethane     | 7.100  | 83   | 40566    | 1.965  | ug/l     | 97       |

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 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
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Quant Time: Jun 25 06:22:35 2025  
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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jun 25 03:53:43 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.798  | 43   | 79447    | 8.731 | ug/l  | 95       |
| 46) t-1,4-Dichloro-2-butene   | 10.827 | 75   | 12308m   | 4.115 | ug/l  |          |
| 47) Methyl methacrylate       | 6.971  | 69   | 22850    | 3.614 | ug/l  | 98       |
| 48) Ethyl methacrylate        | 8.338  | 69   | 20945    | 1.891 | ug/l  | 98       |
| 49) Toluene                   | 7.962  | 92   | 67670    | 1.876 | ug/l  | 96       |
| 50) t-1,3-Dichloropropene     | 8.209  | 75   | 26422    | 1.774 | ug/l  | 95       |
| 51) cis-1,3-Dichloropropene   | 7.602  | 75   | 36853    | 1.843 | ug/l  | 97       |
| 52) 1,1,2-Trichloroethane     | 8.396  | 97   | 23388    | 1.887 | ug/l  | 96       |
| 53) 1,3-Dichloropropane       | 8.569  | 76   | 41741    | 1.958 | ug/l  | 99       |
| 54) 2-Hexanone                | 8.692  | 43   | 49438    | 8.736 | ug/l  | 95       |
| 55) Dibromochloromethane      | 8.801  | 129  | 25308    | 1.979 | ug/l  | 96       |
| 56) 1,2-Dibromoethane         | 8.920  | 107  | 20144    | 2.005 | ug/l  | 100      |
| 58) Tetrachloroethene         | 8.544  | 164  | 29722    | 1.951 | ug/l  | 97       |
| 59) Chlorobenzene             | 9.441  | 112  | 73659    | 1.907 | ug/l  | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.528  | 131  | 27055    | 1.946 | ug/l  | 98       |
| 61) Pentachloroethane         | 11.418 | 117  | 23339    | 2.061 | ug/l  | 95       |
| 62) Hexachloroethane          | 12.466 | 117  | 21061    | 2.068 | ug/l  | 95       |
| 63) Ethyl Benzene             | 9.563  | 91   | 114369   | 1.847 | ug/l  | 100      |
| 64) m/p-Xylenes               | 9.688  | 106  | 86586    | 3.629 | ug/l  | 97       |
| 65) o-Xylene                  | 10.093 | 106  | 42442    | 1.804 | ug/l  | 98       |
| 66) Styrene                   | 10.110 | 104  | 70793    | 1.856 | ug/l  | 99       |
| 67) Bromoform                 | 10.283 | 173  | 13034    | 1.866 | ug/l  | 98       |
| 69) Isopropylbenzene          | 10.476 | 105  | 102462   | 1.880 | ug/l  | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 32083    | 2.024 | ug/l  | 97       |
| 71) 1,2,3-Trichloropropane    | 10.817 | 75   | 26566m   | 2.052 | ug/l  |          |
| 72) Bromobenzene              | 10.778 | 156  | 29826    | 1.950 | ug/l  | 85       |
| 73) n-propylbenzene           | 10.897 | 120  | 31372    | 1.895 | ug/l  | 97       |
| 74) 2-Chlorotoluene           | 10.978 | 126  | 29231    | 1.933 | ug/l  | 96       |
| 75) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 98718    | 1.842 | ug/l  | 97       |
| 76) 4-Chlorotoluene           | 11.093 | 126  | 31381    | 1.981 | ug/l  | 92       |
| 77) tert-Butylbenzene         | 11.412 | 119  | 95430    | 1.906 | ug/l  | 99       |
| 78) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 98098    | 1.844 | ug/l  | 99       |
| 79) sec-Butylbenzene          | 11.637 | 105  | 137752   | 1.943 | ug/l  | 98       |
| 80) Nitrobenzene              | 13.216 | 77   | 6073m    | 9.432 | ug/l  |          |
| 81) p-Isopropyltoluene        | 11.785 | 119  | 104423   | 1.881 | ug/l  | 98       |
| 82) 1,3-Dichlorobenzene       | 11.740 | 146  | 63917    | 2.017 | ug/l  | 98       |
| 83) 1,4-Dichlorobenzene       | 11.830 | 146  | 64352    | 1.958 | ug/l  | 99       |
| 84) n-Butylbenzene            | 12.203 | 91   | 106675   | 1.838 | ug/l  | 98       |
| 85) 1,2-Dichlorobenzene       | 12.206 | 146  | 59771    | 1.971 | ug/l  | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.994 | 75   | 4374     | 2.007 | ug/l  | 99       |
| 87) 1,2,4-Trichlorobenzene    | 13.836 | 180  | 30544    | 1.807 | ug/l  | 99       |
| 88) Hexachlorobutadiene       | 14.013 | 225  | 23256    | 1.940 | ug/l  | 98       |
| 89) Naphthalene               | 14.084 | 128  | 46534    | 2.092 | ug/l  | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 28258    | 1.681 | ug/l  | 99       |

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

