

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU072423\  
 Data File : VU054861.D  
 Acq On : 24 Jul 2023 15:53  
 Operator : MD/SY  
 Sample : RL-CHECK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/25/2023  
 Supervised By : Mahesh Dadoda 07/31/2023

Quant Time: Jul 25 05:09:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072123DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jul 25 05:02:28 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.110  | 96   | 26616    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.634 | 95   | 7676     | 0.955 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 95.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 9175     | 0.986 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 99.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.384  | 85   | 4706     | 0.889 | ug/l    | 94       |
| 3) Chloromethane             | 1.519  | 50   | 5670     | 0.922 | ug/l    | 89       |
| 4) Vinyl Chloride            | 1.602  | 62   | 7187     | 0.910 | ug/l    | 96       |
| 5) Bromomethane              | 1.856  | 94   | 5446     | 0.972 | ug/l    | 98       |
| 6) Chloroethane              | 1.930  | 64   | 6495     | 0.871 | ug/l    | 97       |
| 7) Trichlorofluoromethane    | 2.133  | 101  | 16956    | 0.886 | ug/l    | 100      |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.570  | 101  | 5400     | 0.985 | ug/l    | 93       |
| 9) 1,1-Dichloroethene        | 2.573  | 96   | 4007     | 0.875 | ug/l    | 89       |
| 10) Iodomethane              | 2.718  | 142  | 6225     | 0.844 | ug/l    | 97       |
| 11) Allyl Chloride           | 2.924  | 41   | 4969     | 0.925 | ug/l    | 94       |
| 12) Acrylonitrile            | 3.332  | 53   | 1861m    | 1.671 | ug/l    |          |
| 13) Acetone                  | 2.654  | 43   | 3868     | 4.050 | ug/l    | 96       |
| 14) Carbon Disulfide         | 2.789  | 76   | 6754     | 0.875 | ug/l #  | 88       |
| 15) Methylene Chloride       | 3.043  | 84   | 6602     | 0.773 | ug/l    | 91       |
| 16) trans-1,2-Dichloroethene | 3.351  | 96   | 4115     | 0.809 | ug/l    | 88       |
| 17) 1,1-Dichloroethane       | 3.863  | 63   | 10131    | 0.941 | ug/l    | 98       |
| 18) 2-Butanone               | 4.734  | 43   | 5616m    | 4.020 | ug/l    |          |
| 19) Cyclohexane              | 5.380  | 56   | 5957     | 0.956 | ug/l #  | 87       |
| 20) Methylcyclohexane        | 6.763  | 83   | 7404     | 0.894 | ug/l    | 98       |
| 21) 2,2-Dichloropropane      | 4.660  | 77   | 8560     | 0.911 | ug/l #  | 80       |
| 22) cis-1,2-Dichloroethene   | 4.666  | 96   | 5536     | 0.859 | ug/l    | 87       |
| 23) Diethyl Ether            | 2.374  | 59   | 6428     | 0.914 | ug/l    | 99       |
| 24) tert-Butyl Alcohol       | 3.281  | 59   | 3468m    | 5.723 | ug/l    |          |
| 25) Methyl tert-Butyl Ether  | 3.361  | 73   | 12881    | 0.922 | ug/l    | 99       |
| 26) Bromochloromethane       | 4.975  | 128  | 2451     | 0.998 | ug/l    | 96       |
| 27) Chloroform               | 5.084  | 83   | 10886    | 0.920 | ug/l    | 88       |
| 28) 1,1,1-Trichloroethane    | 5.309  | 97   | 9167     | 0.922 | ug/l    | 98       |
| 29) 1,1-Dichloropropene      | 5.525  | 75   | 6481     | 0.916 | ug/l    | 99       |
| 30) Carbon Tetrachloride     | 5.518  | 117  | 7303     | 0.884 | ug/l    | 97       |
| 31) Isopropyl Ether          | 3.988  | 45   | 15398    | 0.966 | ug/l    | 99       |
| 32) Ethyl-t-butyl ether      | 4.499  | 59   | 14494    | 0.885 | ug/l    | 93       |
| 33) Tert-Amyl methyl ether   | 5.936  | 73   | 14194    | 0.921 | ug/l #  | 96       |
| 34) Propionitrile            | 4.817  | 54   | 998      | 2.388 | ug/l #  | 78       |
| 35) Benzene                  | 5.772  | 78   | 21319    | 0.928 | ug/l    | 100      |
| 36) 1,2-Dichloroethane       | 5.798  | 62   | 6026     | 0.913 | ug/l #  | 94       |
| 37) Trichloroethene          | 6.544  | 130  | 5947     | 0.957 | ug/l    | 94       |
| 38) 1,2-Dichloropropane      | 6.788  | 63   | 5514     | 0.831 | ug/l    | 95       |
| 39) Methacrylonitrile        | 4.998  | 41   | 1552m    | 1.043 | ug/l    |          |
| 40) Methyl acrylate          | 4.866  | 55   | 989      | 0.390 | ug/l #  | 73       |
| 41) Tetrahydrofuran          | 5.075  | 42   | 1795m    | 2.042 | ug/l    |          |
| 42) 1-Chlorobutane           | 5.457  | 56   | 9303     | 0.972 | ug/l    | 97       |
| 43) Dibromomethane           | 6.917  | 93   | 2722     | 0.882 | ug/l    | 96       |
| 44) Bromodichloromethane     | 7.104  | 83   | 7823     | 0.925 | ug/l #  | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU072423\  
 Data File : VU054861.D  
 Acq On : 24 Jul 2023 15:53  
 Operator : MD/SY  
 Sample : RL-CHECK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK

Quant Time: Jul 25 05:09:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072123DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jul 25 05:02:28 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 07/25/2023  
 Supervised By : Mahesh Dadoda 07/31/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.792  | 43   | 16149    | 4.421 | ug/l   | 96       |
| 46) t-1,4-Dichloro-2-butene   | 10.833 | 75   | 2207m    | 1.443 | ug/l   |          |
| 47) Methyl methacrylate       | 6.962  | 69   | 5028     | 1.734 | ug/l   | 94       |
| 48) Ethyl methacrylate        | 8.332  | 69   | 5136     | 0.872 | ug/l   | 99       |
| 49) Toluene                   | 7.965  | 92   | 13799    | 0.941 | ug/l   | 96       |
| 50) t-1,3-Dichloropropene     | 8.210  | 75   | 6361     | 0.849 | ug/l   | 94       |
| 51) cis-1,3-Dichloropropene   | 7.608  | 75   | 8583     | 0.942 | ug/l   | 93       |
| 52) 1,1,2-Trichloroethane     | 8.399  | 97   | 4563     | 0.980 | ug/l   | 90       |
| 53) 1,3-Dichloropropane       | 8.573  | 76   | 7044     | 0.898 | ug/l   | 94       |
| 54) 2-Hexanone                | 8.689  | 43   | 10545    | 4.141 | ug/l   | 100      |
| 55) Dibromochloromethane      | 8.808  | 129  | 4747     | 0.853 | ug/l   | 97       |
| 56) 1,2-Dibromoethane         | 8.920  | 107  | 3735     | 0.917 | ug/l   | 89       |
| 58) Tetrachloroethene         | 8.550  | 164  | 5093     | 0.941 | ug/l   | 94       |
| 59) Chlorobenzene             | 9.448  | 112  | 15820    | 0.905 | ug/l   | 100      |
| 60) 1,1,1,2-Tetrachloroethane | 9.534  | 131  | 5852     | 0.948 | ug/l   | 95       |
| 61) Pentachloroethane         | 11.425 | 117  | 4230     | 0.871 | ug/l   | 99       |
| 62) Hexachloroethane          | 12.473 | 117  | 4516     | 0.905 | ug/l   | 99       |
| 63) Ethyl Benzene             | 9.566  | 91   | 27182    | 0.912 | ug/l   | 93       |
| 64) m/p-Xylenes               | 9.692  | 106  | 19510    | 1.732 | ug/l   | 93       |
| 65) o-Xylene                  | 10.100 | 106  | 10599    | 0.934 | ug/l   | 91       |
| 66) Styrene                   | 10.113 | 104  | 14950    | 0.820 | ug/l   | 97       |
| 67) Bromoform                 | 10.290 | 173  | 2731     | 0.911 | ug/l # | 92       |
| 69) Isopropylbenzene          | 10.480 | 105  | 27079    | 0.879 | ug/l   | 96       |
| 70) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 4936     | 0.850 | ug/l # | 92       |
| 71) 1,2,3-Trichloropropane    | 10.824 | 75   | 3559m    | 0.870 | ug/l   |          |
| 72) Bromobenzene              | 10.782 | 156  | 6099     | 0.859 | ug/l   | 87       |
| 73) n-propylbenzene           | 10.904 | 120  | 7845     | 0.948 | ug/l   | 98       |
| 74) 2-Chlorotoluene           | 10.981 | 126  | 6136     | 0.852 | ug/l   | 96       |
| 75) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 20754    | 0.827 | ug/l   | 99       |
| 76) 4-Chlorotoluene           | 11.097 | 126  | 6540     | 0.883 | ug/l   | 99       |
| 77) tert-Butylbenzene         | 11.415 | 119  | 21742    | 0.842 | ug/l   | 96       |
| 78) 1,2,4-Trimethylbenzene    | 11.467 | 105  | 20927    | 0.830 | ug/l   | 95       |
| 79) sec-Butylbenzene          | 11.640 | 105  | 28441    | 0.849 | ug/l   | 97       |
| 80) Nitrobenzene              | 13.222 | 77   | 565m     | 3.356 | ug/l   |          |
| 81) p-Isopropyltoluene        | 11.791 | 119  | 22212    | 0.814 | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene       | 11.743 | 146  | 13731    | 0.966 | ug/l   | 92       |
| 83) 1,4-Dichlorobenzene       | 11.836 | 146  | 13280    | 0.931 | ug/l   | 99       |
| 84) n-Butylbenzene            | 12.206 | 91   | 19053    | 0.759 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene       | 12.209 | 146  | 12519    | 0.924 | ug/l   | 97       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.994 | 75   | 632      | 0.830 | ug/l # | 68       |
| 87) 1,2,4-Trichlorobenzene    | 13.840 | 180  | 7039     | 0.811 | ug/l   | 95       |
| 88) Hexachlorobutadiene       | 14.016 | 225  | 3989     | 0.860 | ug/l   | 97       |
| 89) Naphthalene               | 14.087 | 128  | 10515    | 0.749 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 5914     | 0.788 | ug/l   | 99       |

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

