

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060221\  
 Data File : VU044030.D  
 Acq On : 02 Jun 2021 19:34  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

SAM  
 6/3/2021 5:47:21 PM

Quant Time: Jun 03 05:57:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U060221DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jun 03 05:52:43 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|--------|------|----------|---------|---------|----------|
| -----                        |        |      |          |         |         |          |
| Internal Standards           |        |      |          |         |         |          |
| 1) Fluorobenzene             | 6.121  | 96   | 18517    | 1.000   | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |         |         |          |
| 57) 4-Bromofluorobenzene     | 10.639 | 95   | 6945     | 0.878   | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =       | 88.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.201 | 152  | 7131     | 0.856   | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =       | 86.000% |          |
| Target Compounds             |        |      |          |         |         |          |
|                              |        |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.392  | 85   | 118801   | 16.171  | ug/l    | 99       |
| 3) Chloromethane             | 1.527  | 50   | 119512   | 16.816  | ug/l    | 99       |
| 4) Vinyl Chloride            | 1.610  | 62   | 119408   | 17.494  | ug/l    | 100      |
| 5) Bromomethane              | 1.858  | 94   | 67080    | 15.540  | ug/l    | 98       |
| 6) Chloroethane              | 1.938  | 64   | 69189    | 15.413  | ug/l    | 100      |
| 7) Trichlorofluoromethane    | 2.144  | 101  | 135823   | 12.516  | ug/l    | 99       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.591  | 101  | 78022    | 13.988  | ug/l    | 99       |
| 9) 1,1-Dichloroethene        | 2.588  | 96   | 73790    | 15.105  | ug/l    | 99       |
| 10) Iodomethane              | 2.732  | 142  | 102359   | 13.710  | ug/l    | 100      |
| 11) Allyl Chloride           | 2.932  | 41   | 118410   | 12.975  | ug/l    | 99       |
| 12) Acrylonitrile            | 3.327  | 53   | 39455    | 29.322  | ug/l    | 94       |
| 13) Acetone                  | 2.636  | 43   | 64420    | 62.894  | ug/l    | 96       |
| 14) Carbon Disulfide         | 2.800  | 76   | 251353   | 16.159  | ug/l    | 100      |
| 15) Methylene Chloride       | 3.054  | 84   | 84561    | 14.228  | ug/l    | 99       |
| 16) trans-1,2-Dichloroethene | 3.363  | 96   | 80446    | 15.207  | ug/l    | 97       |
| 17) 1,1-Dichloroethane       | 3.880  | 63   | 153458   | 14.248  | ug/l    | 99       |
| 18) 2-Butanone               | 4.732  | 43   | 113820   | 59.882  | ug/l    | 100      |
| 19) Cyclohexane              | 5.388  | 56   | 147162m  | 15.694  | ug/l    |          |
| 20) Methylcyclohexane        | 6.768  | 83   | 144671   | 17.860  | ug/l    | 99       |
| 21) 2,2-Dichloropropane      | 4.678  | 77   | 118984   | 12.309  | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene   | 4.678  | 96   | 86087    | 14.467  | ug/l    | 99       |
| 23) Diethyl Ether            | 2.385  | 59   | 62167    | 15.126  | ug/l    | 98       |
| 24) tert-Butyl Alcohol       | 3.208  | 59   | 68608    | 245.900 | ug/l    | 98       |
| 25) Methyl tert-Butyl Ether  | 3.382  | 73   | 190619   | 13.387  | ug/l    | 96       |
| 26) Bromochloromethane       | 4.986  | 128  | 34842    | 12.572  | ug/l    | 97       |
| 27) Chloroform               | 5.099  | 83   | 149240   | 13.411  | ug/l    | 100      |
| 28) 1,1,1-Trichloroethane    | 5.324  | 97   | 127917   | 12.840  | ug/l    | 100      |
| 29) 1,1-Dichloropropene      | 5.533  | 75   | 123679   | 16.827  | ug/l    | 99       |
| 30) Carbon Tetrachloride     | 5.530  | 117  | 114884   | 14.641  | ug/l    | 98       |
| 31) Isopropyl Ether          | 4.015  | 45   | 249502   | 13.162  | ug/l    | 99       |
| 32) Ethyl-t-butyl ether      | 4.527  | 59   | 229813   | 13.588  | ug/l    | 100      |
| 33) Tert-Amyl methyl ether   | 5.961  | 73   | 195549   | 15.737  | ug/l    | 100      |
| 34) Propionitrile            | 4.800  | 54   | 36306    | 85.745  | ug/l #  | 98       |
| 35) Benzene                  | 5.780  | 78   | 360863   | 17.371  | ug/l    | 99       |
| 36) 1,2-Dichloroethane       | 5.806  | 62   | 101141   | 13.150  | ug/l    | 100      |
| 37) Trichloroethene          | 6.552  | 130  | 84872    | 15.677  | ug/l    | 100      |
| 38) 1,2-Dichloropropane      | 6.803  | 63   | 95784    | 16.249  | ug/l    | 99       |
| 39) Methacrylonitrile        | 4.996  | 41   | 29667    | 11.101  | ug/l    | 97       |
| 40) Methyl acrylate          | 4.867  | 55   | 48018    | 13.443  | ug/l    | 97       |
| 41) Tetrahydrofuran          | 5.080  | 42   | 29534    | 21.874  | ug/l #  | 89       |
| 42) 1-Chlorobutane           | 5.465  | 56   | 174979   | 16.163  | ug/l    | 100      |
| 43) Dibromomethane           | 6.928  | 93   | 45500    | 14.530  | ug/l    | 99       |
| 44) Bromodichloromethane     | 7.118  | 83   | 115704   | 15.535  | ug/l    | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060221\  
 Data File : VU044030.D  
 Acq On : 02 Jun 2021 19:34  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

SAM  
 6/3/2021 5:47:21 PM

Quant Time: Jun 03 05:57:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U060221DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jun 03 05:52:43 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.809  | 43   | 282313   | 62.442 | ug/l  | 99       |
| 46) t-1,4-Dichloro-2-butene   | 10.841 | 75   | 48097m   | 32.496 | ug/l  |          |
| 47) Methyl methacrylate       | 6.977  | 69   | 88759    | 32.044 | ug/l  | 98       |
| 48) Ethyl methacrylate        | 8.346  | 69   | 87028    | 16.051 | ug/l  | 100      |
| 49) Toluene                   | 7.977  | 92   | 223651   | 17.655 | ug/l  | 99       |
| 50) t-1,3-Dichloropropene     | 8.221  | 75   | 109033   | 16.459 | ug/l  | 99       |
| 51) cis-1,3-Dichloropropene   | 7.616  | 75   | 124300   | 16.649 | ug/l  | 99       |
| 52) 1,1,2-Trichloroethane     | 8.411  | 97   | 66191    | 15.062 | ug/l  | 99       |
| 53) 1,3-Dichloropropane       | 8.584  | 76   | 118366   | 15.608 | ug/l  | 99       |
| 54) 2-Hexanone                | 8.700  | 43   | 200971   | 62.673 | ug/l  | 98       |
| 55) Dibromochloromethane      | 8.819  | 129  | 75088    | 14.697 | ug/l  | 99       |
| 56) 1,2-Dibromoethane         | 8.931  | 107  | 61283    | 14.312 | ug/l  | 98       |
| 58) Tetrachloroethene         | 8.559  | 164  | 79752    | 13.776 | ug/l  | 99       |
| 59) Chlorobenzene             | 9.456  | 112  | 223707   | 15.907 | ug/l  | 99       |
| 60) 1,1,1,2-Tetrachloroethane | 9.542  | 131  | 80483    | 14.817 | ug/l  | 99       |
| 61) Pentachloroethane         | 11.436 | 117  | 63253    | 15.101 | ug/l  | 98       |
| 62) Hexachloroethane          | 12.481 | 117  | 67134    | 15.639 | ug/l  | 99       |
| 63) Ethyl Benzene             | 9.578  | 91   | 420587   | 17.538 | ug/l  | 100      |
| 64) m/p-Xylenes               | 9.700  | 106  | 329546   | 35.415 | ug/l  | 100      |
| 65) o-Xylene                  | 10.108 | 106  | 153027   | 17.113 | ug/l  | 99       |
| 66) Styrene                   | 10.121 | 104  | 274253   | 17.895 | ug/l  | 100      |
| 67) Bromoform                 | 10.298 | 173  | 41459    | 12.886 | ug/l  | 99       |
| 69) Isopropylbenzene          | 10.491 | 105  | 409173   | 16.945 | ug/l  | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.790 | 83   | 86291    | 15.069 | ug/l  | 99       |
| 71) 1,2,3-Trichloropropane    | 10.835 | 75   | 70034m   | 15.535 | ug/l  |          |
| 72) Bromobenzene              | 10.790 | 156  | 92149    | 13.912 | ug/l  | 97       |
| 73) n-propylbenzene           | 10.912 | 120  | 115196   | 17.005 | ug/l  | 99       |
| 74) 2-Chlorotoluene           | 10.992 | 126  | 96598    | 15.784 | ug/l  | 100      |
| 75) 1,3,5-Trimethylbenzene    | 11.095 | 105  | 367358   | 17.058 | ug/l  | 100      |
| 76) 4-Chlorotoluene           | 11.105 | 126  | 103061   | 15.922 | ug/l  | 100      |
| 77) tert-Butylbenzene         | 11.427 | 119  | 341152   | 16.083 | ug/l  | 100      |
| 78) 1,2,4-Trimethylbenzene    | 11.475 | 105  | 378335   | 17.003 | ug/l  | 100      |
| 79) sec-Butylbenzene          | 11.652 | 105  | 478272   | 16.582 | ug/l  | 99       |
| 80) Nitrobenzene              | 13.211 | 77   | 14672    | 95.203 | ug/l  | 98       |
| 81) p-Isopropyltoluene        | 11.800 | 119  | 403192   | 16.691 | ug/l  | 99       |
| 82) 1,3-Dichlorobenzene       | 11.751 | 146  | 192200   | 14.440 | ug/l  | 99       |
| 83) 1,4-Dichlorobenzene       | 11.841 | 146  | 194420   | 14.542 | ug/l  | 100      |
| 84) n-Butylbenzene            | 12.214 | 91   | 399157   | 17.199 | ug/l  | 100      |
| 85) 1,2-Dichlorobenzene       | 12.218 | 146  | 186376   | 14.329 | ug/l  | 100      |
| 86) 1,2-Dibromo-3-Chloropr... | 13.002 | 75   | 14592    | 14.206 | ug/l  | 98       |
| 87) 1,2,4-Trichlorobenzene    | 13.848 | 180  | 122607   | 14.375 | ug/l  | 100      |
| 88) Hexachlorobutadiene       | 14.028 | 225  | 72417    | 12.663 | ug/l  | 98       |
| 89) Naphthalene               | 14.095 | 128  | 235571   | 16.825 | ug/l  | 100      |
| 90) 1,2,3-Trichlorobenzene    | 14.336 | 180  | 119108   | 14.620 | ug/l  | 100      |

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

