

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041519\  
 Data File : VU031199.D  
 Acq On : 15 Apr 2019 21:27  
 Operator : JC/SP  
 Sample : VSTDIC002  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC002

Manual Integrations  
 APPROVED

MMDadoda  
 4/16/2019 3:23:17 PM

Quant Time: Apr 16 04:30:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U041519DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Apr 16 04:10:13 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| 1) Fluorobenzene              | 5.74  | 96   | 32717    | 1.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |        |         |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95   | 12196    | 1.05   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |      | Recovery | =      | 105.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.86 | 152  | 12666    | 1.14   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |      | Recovery | =      | 114.00% |          |
| Target Compounds              |       |      |          |        |         |          |
|                               |       |      |          |        | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.20  | 85   | 25472    | 1.920  | ug/l    | 97       |
| 3) Chloromethane              | 1.32  | 50   | 26936    | 1.718  | ug/l    | 98       |
| 4) Vinyl Chloride             | 1.40  | 62   | 26131    | 1.746  | ug/l    | 100      |
| 5) Bromomethane               | 1.63  | 94   | 16200    | 2.191  | ug/l    | 97       |
| 6) Chloroethane               | 1.70  | 64   | 17643    | 2.027  | ug/l    | 97       |
| 7) Trichlorofluoromethane     | 1.89  | 101  | 36504    | 2.046  | ug/l    | 94       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101  | 18740    | 2.086  | ug/l    | 98       |
| 9) 1,1-Dichloroethene         | 2.29  | 96   | 18820    | 2.114  | ug/l    | 99       |
| 10) Iodomethane               | 2.41  | 142  | 24857    | 2.145  | ug/l    | 99       |
| 11) Allyl Chloride            | 2.59  | 41   | 36920    | 1.938  | ug/l    | 98       |
| 12) Acrylonitrile             | 2.94  | 53   | 11737    | 4.055  | ug/l    | 95       |
| 13) Acetone                   | 2.33  | 43   | 22554    | 8.494  | ug/l    | 98       |
| 14) Carbon Disulfide          | 2.48  | 76   | 71431    | 2.184  | ug/l    | 100      |
| 15) Methylene Chloride        | 2.70  | 84   | 23925    | 1.970  | ug/l    | 96       |
| 16) trans-1,2-Dichloroethene  | 2.98  | 96   | 20677    | 2.053  | ug/l    | 99       |
| 17) 1,1-Dichloroethane        | 3.44  | 63   | 34792    | 1.765  | ug/l    | 99       |
| 18) 2-Butanone                | 4.29  | 43   | 25755    | 7.610  | ug/l    | 99       |
| 19) Cyclohexane               | 4.99  | 56   | 23023    | 1.448  | ug/l    | 95       |
| 20) Methylcyclohexane         | 6.41  | 83   | 21655    | 1.569  | ug/l    | 91       |
| 21) 2,2-Dichloropropane       | 4.23  | 77   | 26529    | 1.742  | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96   | 17489    | 1.720  | ug/l    | 91       |
| 23) Diethyl Ether             | 2.10  | 59   | 17951    | 2.004  | ug/l    | 99       |
| 24) tert-Butyl Alcohol        | 2.87  | 59   | 18766m   | 17.930 | ug/l    |          |
| 25) Methyl tert-Butyl Ether   | 3.00  | 73   | 54896    | 1.972  | ug/l    | 96       |
| 26) Bromochloromethane        | 4.54  | 128  | 8449     | 1.918  | ug/l    | 95       |
| 27) Chloroform                | 4.67  | 83   | 34300    | 1.837  | ug/l    | 100      |
| 28) 1,1,1-Trichloroethane     | 4.91  | 97   | 28777    | 1.872  | ug/l    | 99       |
| 29) 1,1-Dichloropropene       | 5.13  | 75   | 22507    | 1.672  | ug/l    | 97       |
| 30) Carbon Tetrachloride      | 5.13  | 117  | 24707    | 1.841  | ug/l    | 98       |
| 31) Isopropyl Ether           | 3.57  | 45   | 49159    | 1.535  | ug/l    | 98       |
| 32) Ethyl-t-butyl ether       | 4.07  | 59   | 39859    | 1.532  | ug/l    | 96       |
| 33) Tert-Amyl methyl ether    | 5.58  | 73   | 34660    | 1.584  | ug/l #  | 96       |
| 34) Propionitrile             | 4.34  | 54   | 6543m    | 7.778  | ug/l    |          |
| 35) Benzene                   | 5.39  | 78   | 69958    | 1.750  | ug/l    | 100      |
| 36) 1,2-Dichloroethane        | 5.40  | 62   | 22591    | 1.777  | ug/l    | 96       |
| 37) Trichloroethene           | 6.18  | 130  | 19341    | 1.988  | ug/l    | 97       |
| 38) 1,2-Dichloropropane       | 6.43  | 63   | 17986    | 1.578  | ug/l    | 96       |
| 39) Methacrylonitrile         | 4.56  | 41   | 6344     | 1.525  | ug/l    | 92       |
| 40) Methyl acrylate           | 4.44  | 55   | 7183     | 1.405  | ug/l #  | 81       |
| 41) Tetrahydrofuran           | 4.66  | 42   | 6495     | 2.901  | ug/l #  | 91       |
| 42) 1-Chlorobutane            | 5.06  | 56   | 32398    | 1.584  | ug/l    | 95       |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 43) Dibromomethane             | 6.56  | 93   | 10155    | 1.899 | ug/l  | 99       |
| 44) Bromodichloromethane       | 6.76  | 83   | 24218    | 1.734 | ug/l  | 98       |
| 45) 4-Methyl-2-Pentanone       | 7.46  | 43   | 56543    | 7.435 | ug/l  | 98       |
| 46) t-1,4-Dichloro-2-butene    | 10.51 | 75   | 8142m    | 3.110 | ug/l  |          |
| 47) Methyl methacrylate        | 6.63  | 69   | 16779    | 3.443 | ug/l  | 91       |
| 48) Ethyl methacrylate         | 8.02  | 69   | 14789    | 1.620 | ug/l  | 100      |
| 49) Toluene                    | 7.63  | 92   | 36919    | 1.693 | ug/l  | 96       |
| 50) t-1,3-Dichloropropene      | 7.88  | 75   | 19235    | 1.606 | ug/l  | 94       |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 23900    | 1.661 | ug/l  | 93       |
| 52) 1,1,2-Trichloroethane      | 8.06  | 97   | 13694    | 1.795 | ug/l  | 95       |
| 53) 1,3-Dichloropropane        | 8.24  | 76   | 22793    | 1.707 | ug/l  | 99       |
| 54) 2-Hexanone                 | 8.37  | 43   | 39680    | 7.866 | ug/l  | 93       |
| 55) Dibromochloromethane       | 8.48  | 129  | 15555    | 1.795 | ug/l  | 98       |
| 56) 1,2-Dibromoethane          | 8.58  | 107  | 12872    | 1.870 | ug/l  | 97       |
| 58) Tetrachloroethene          | 8.22  | 164  | 16661    | 1.927 | ug/l  | 94       |
| 59) Chlorobenzene              | 9.12  | 112  | 42547    | 1.784 | ug/l  | 98       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 16307    | 1.812 | ug/l  | 98       |
| 61) Pentachloroethane          | 11.10 | 117  | 12542    | 1.819 | ug/l  | 98       |
| 62) Hexachloroethane           | 12.14 | 117  | 12054    | 1.840 | ug/l  | 99       |
| 63) Ethyl Benzene              | 9.25  | 91   | 64729    | 1.639 | ug/l  | 99       |
| 64) m/p-Xylenes                | 9.37  | 106  | 47600    | 3.297 | ug/l  | 98       |
| 65) o-Xylene                   | 9.78  | 106  | 23941    | 1.706 | ug/l  | 98       |
| 66) Styrene                    | 9.79  | 104  | 38386    | 1.584 | ug/l  | 98       |
| 67) Bromoform                  | 9.95  | 173  | 9219     | 1.851 | ug/l  | 100      |
| 69) Isopropylbenzene           | 10.16 | 105  | 62338    | 1.665 | ug/l  | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 17838    | 1.778 | ug/l  | 99       |
| 71) 1,2,3-Trichloropropane     | 10.49 | 75   | 13716m   | 1.798 | ug/l  |          |
| 72) Bromobenzene               | 10.45 | 156  | 17841    | 1.885 | ug/l  | 99       |
| 73) n-propylbenzene            | 10.58 | 120  | 16404    | 1.642 | ug/l  | 91       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 15917    | 1.746 | ug/l  | 99       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 54040    | 1.704 | ug/l  | 98       |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 16175    | 1.739 | ug/l  | 98       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 53384    | 1.727 | ug/l  | 99       |
| 78) 1,2,4-Trimethylbenzene     | 11.14 | 105  | 54374    | 1.683 | ug/l  | 98       |
| 79) sec-Butylbenzene           | 11.32 | 105  | 71559    | 1.704 | ug/l  | 99       |
| 80) Nitrobenzene               | 12.88 | 77   | 2392m    | 8.012 | ug/l  |          |
| 81) p-Isopropyltoluene         | 11.47 | 119  | 57531    | 1.747 | ug/l  | 98       |
| 82) 1,3-Dichlorobenzene        | 11.41 | 146  | 34718    | 1.852 | ug/l  | 100      |
| 83) 1,4-Dichlorobenzene        | 11.51 | 146  | 35396    | 1.910 | ug/l  | 95       |
| 84) n-Butylbenzene             | 11.89 | 91   | 53339    | 1.612 | ug/l  | 97       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 32721    | 1.837 | ug/l  | 99       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.65 | 75   | 2692     | 1.719 | ug/l  | 95       |
| 87) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 17967    | 1.689 | ug/l  | 96       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 13187    | 2.065 | ug/l  | 96       |
| 89) Naphthalene                | 13.74 | 128  | 27957    | 1.492 | ug/l  | 98       |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 18547    | 1.753 | ug/l  | 97       |

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

