

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U050520\  
 Data File : VU038012.D  
 Acq On : 05 May 2020 12:47  
 Operator : JC/MD  
 Sample : L2182-08  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 LOQ-WATER-02-QT2-2020

Manual Integrations  
 APPROVED

apatel  
 5/6/2020 10:39:26 AM

Quant Time: May 06 01:30:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U050420DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed May 06 01:21:09 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|-------|----------|-------|--------|----------|
| -----                         | ----- | ----- | -----    | ----- | -----  | -----    |
| 1) Fluorobenzene              | 6.15  | 96    | 85066    | 1.00  | ug/l   | 0.00     |
| System Monitoring Compounds   |       |       |          |       |        |          |
| 57) 4-Bromofluorobenzene      | 10.65 | 95    | 31303    | 0.95  | ug/l   | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =     | 95.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 12.21 | 152   | 30854    | 0.97  | ug/l   | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =     | 97.00% |          |
| Target Compounds              |       |       |          |       |        |          |
|                               |       |       |          |       | Ovalue |          |
| 2) Dichlorodifluoromethane    | 1.40  | 85    | 14063    | 0.487 | ug/l   | 95       |
| 3) Chloromethane              | 1.54  | 50    | 16779    | 0.491 | ug/l   | 100      |
| 4) Vinyl Chloride             | 1.62  | 62    | 16552    | 0.486 | ug/l   | 99       |
| 5) Bromomethane               | 1.87  | 94    | 9813     | 0.480 | ug/l   | 97       |
| 6) Chloroethane               | 1.95  | 64    | 10487    | 0.516 | ug/l   | 98       |
| 7) Trichlorofluoromethane     | 2.16  | 101   | 17711    | 0.499 | ug/l   | 95       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.60  | 101   | 11503    | 0.520 | ug/l   | 97       |
| 9) 1,1-Dichloroethene         | 2.61  | 96    | 11050    | 0.497 | ug/l   | 92       |
| 10) Iodomethane               | 2.75  | 142   | 5898     | 0.434 | ug/l   | 99       |
| 11) Allyl Chloride            | 2.95  | 41    | 20006    | 0.485 | ug/l   | 93       |
| 12) Acrylonitrile             | 3.35  | 53    | 6856     | 1.129 | ug/l # | 93       |
| 13) Acetone                   | 2.65  | 43    | 13066    | 2.689 | ug/l   | 98       |
| 14) Carbon Disulfide          | 2.82  | 76    | 40192    | 0.495 | ug/l   | 100      |
| 15) Methylene Chloride        | 3.07  | 84    | 29624    | 0.964 | ug/l   | 96       |
| 16) trans-1,2-Dichloroethene  | 3.38  | 96    | 12227    | 0.503 | ug/l   | 87       |
| 17) 1,1-Dichloroethane        | 3.91  | 63    | 21784    | 0.472 | ug/l   | 96       |
| 18) 2-Butanone                | 4.76  | 43    | 16216    | 2.226 | ug/l   | 99       |
| 19) Cyclohexane               | 5.42  | 56    | 21050m   | 0.471 | ug/l   |          |
| 20) Methylcyclohexane         | 6.79  | 83    | 20903    | 0.477 | ug/l   | 98       |
| 21) 2,2-Dichloropropane       | 4.70  | 77    | 19446    | 0.505 | ug/l   | 95       |
| 22) cis-1,2-Dichloroethene    | 4.71  | 96    | 12364    | 0.481 | ug/l   | 94       |
| 23) Diethyl Ether             | 2.40  | 59    | 10780    | 0.553 | ug/l   | 99       |
| 24) tert-Butyl Alcohol        | 3.23  | 59    | 11283    | 5.218 | ug/l # | 88       |
| 25) Methyl tert-Butyl Ether   | 3.40  | 73    | 29529    | 0.485 | ug/l # | 81       |
| 26) Bromochloromethane        | 5.01  | 128   | 4990     | 0.482 | ug/l   | 95       |
| 27) Chloroform                | 5.13  | 83    | 20814    | 0.481 | ug/l   | 95       |
| 28) 1,1,1-Trichloroethane     | 5.35  | 97    | 16776    | 0.471 | ug/l   | 98       |
| 29) 1,1-Dichloropropene       | 5.56  | 75    | 17780    | 0.496 | ug/l   | 97       |
| 30) Carbon Tetrachloride      | 5.56  | 117   | 14131    | 0.474 | ug/l   | 96       |
| 31) Isopropyl Ether           | 4.04  | 45    | 35875    | 0.473 | ug/l   | 94       |
| 32) Ethyl-t-butyl ether       | 4.55  | 59    | 30854    | 0.450 | ug/l   | 100      |
| 33) Tert-Amyl methyl ether    | 5.98  | 73    | 26647    | 0.451 | ug/l   | 96       |
| 34) Propionitrile             | 4.83  | 54    | 4906     | 2.352 | ug/l # | 95       |
| 35) Benzene                   | 5.81  | 78    | 49086    | 0.489 | ug/l   | 98       |
| 36) 1,2-Dichloroethane        | 5.83  | 62    | 14889    | 0.501 | ug/l   | 99       |
| 37) Trichloroethene           | 6.57  | 130   | 12867    | 0.488 | ug/l   | 94       |
| 38) 1,2-Dichloropropane       | 6.82  | 63    | 12957    | 0.480 | ug/l   | 99       |
| 39) Methacrylonitrile         | 5.02  | 41    | 4822     | 0.494 | ug/l   | 93       |
| 40) Methyl acrylate           | 4.89  | 55    | 7454     | 0.518 | ug/l # | 92       |
| 41) Tetrahydrofuran           | 5.11  | 42    | 5242     | 1.076 | ug/l   | 96       |
| 42) 1-Chlorobutane            | 5.49  | 56    | 24386    | 0.472 | ug/l   | 98       |

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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed May 06 01:21:09 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 43) Dibromomethane             | 6.95  | 93   | 5603     | 0.445 | ug/l   | 93       |
| 44) Bromodichloromethane       | 7.14  | 83   | 14559    | 0.461 | ug/l   | 98       |
| 45) 4-Methyl-2-Pentanone       | 7.82  | 43   | 39373    | 2.296 | ug/l   | 99       |
| 46) t-1,4-Dichloro-2-butene    | 10.85 | 75   | 5293m    | 0.998 | ug/l   |          |
| 47) Methyl methacrylate        | 7.00  | 69   | 11813    | 0.923 | ug/l   | 96       |
| 48) Ethyl methacrylate         | 8.36  | 69   | 10930    | 0.461 | ug/l   | 99       |
| 49) Toluene                    | 7.99  | 92   | 30253    | 0.477 | ug/l   | 98       |
| 50) t-1,3-Dichloropropene      | 8.23  | 75   | 13301    | 0.412 | ug/l   | 93       |
| 51) cis-1,3-Dichloropropene    | 7.63  | 75   | 16447    | 0.424 | ug/l   | 92       |
| 52) 1,1,2-Trichloroethane      | 8.43  | 97   | 8205     | 0.461 | ug/l   | 93       |
| 53) 1,3-Dichloropropane        | 8.60  | 76   | 16909    | 0.506 | ug/l   | 99       |
| 54) 2-Hexanone                 | 8.71  | 43   | 27524    | 2.274 | ug/l   | 97       |
| 55) Dibromochloromethane       | 8.84  | 129  | 8485     | 0.430 | ug/l   | 94       |
| 56) 1,2-Dibromoethane          | 8.95  | 107  | 7446     | 0.443 | ug/l   | 98       |
| 58) Tetrachloroethene          | 8.57  | 164  | 12468    | 0.507 | ug/l   | 97       |
| 59) Chlorobenzene              | 9.47  | 112  | 33059    | 0.491 | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.56  | 131  | 8817     | 0.431 | ug/l   | 97       |
| 61) Pentachloroethane          | 11.45 | 117  | 6773     | 0.442 | ug/l   | 99       |
| 62) Hexachloroethane           | 12.49 | 117  | 6194     | 0.388 | ug/l   | 99       |
| 63) Ethyl Benzene              | 9.59  | 91   | 54543    | 0.455 | ug/l   | 99       |
| 64) m/p-Xylenes                | 9.71  | 106  | 42129    | 0.913 | ug/l   | 96       |
| 65) o-Xylene                   | 10.12 | 106  | 20222    | 0.450 | ug/l   | 97       |
| 66) Styrene                    | 10.13 | 104  | 32302    | 0.436 | ug/l   | 97       |
| 67) Bromoform                  | 10.31 | 173  | 4213     | 0.406 | ug/l # | 92       |
| 69) Isopropylbenzene           | 10.50 | 105  | 53236    | 0.453 | ug/l   | 97       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 10546    | 0.462 | ug/l   | 100      |
| 71) 1,2,3-Trichloropropane     | 10.84 | 75   | 5627m    | 0.333 | ug/l   |          |
| 72) Bromobenzene               | 10.80 | 156  | 12458    | 0.475 | ug/l   | 95       |
| 73) n-propylbenzene            | 10.93 | 120  | 14503    | 0.450 | ug/l   | 99       |
| 74) 2-Chlorotoluene            | 11.01 | 126  | 13052    | 0.483 | ug/l   | 90       |
| 75) 1,3,5-Trimethylbenzene     | 11.11 | 105  | 41401    | 0.426 | ug/l   | 97       |
| 76) 4-Chlorotoluene            | 11.11 | 126  | 13398    | 0.477 | ug/l   | 91       |
| 77) tert-Butylbenzene          | 11.44 | 119  | 40473    | 0.437 | ug/l   | 98       |
| 78) 1,2,4-Trimethylbenzene     | 11.48 | 105  | 42332    | 0.423 | ug/l   | 100      |
| 79) sec-Butylbenzene           | 11.66 | 105  | 56243    | 0.424 | ug/l   | 98       |
| 80) Nitrobenzene               | 13.23 | 77   | 1161     | 1.715 | ug/l # | 89       |
| 81) p-Isopropyltoluene         | 11.81 | 119  | 45600    | 0.426 | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene        | 11.76 | 146  | 26062    | 0.480 | ug/l   | 99       |
| 83) 1,4-Dichlorobenzene        | 11.85 | 146  | 25466    | 0.463 | ug/l   | 98       |
| 84) n-Butylbenzene             | 12.22 | 91   | 46747    | 0.438 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene        | 12.23 | 146  | 23557    | 0.466 | ug/l   | 95       |
| 86) 1,2-Dibromo-3-Chloropropan | 13.02 | 75   | 1593     | 0.443 | ug/l   | 87       |
| 87) 1,2,4-Trichlorobenzene     | 13.87 | 180  | 16402    | 0.444 | ug/l   | 96       |
| 88) Hexachlorobutadiene        | 14.06 | 225  | 7014     | 0.424 | ug/l   | 95       |
| 89) Naphthalene                | 14.12 | 128  | 30375    | 0.427 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene     | 14.37 | 180  | 15209    | 0.462 | ug/l   | 99       |

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

