

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU012821\  
 Data File : VU042205.D  
 Acq On : 28 Jan 2021 14:56  
 Operator : SY/MD  
 Sample : VSTDIC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

SAM  
 2/3/2021 5:10:18 PM

Quant Time: Jan 29 07:39:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U012821DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Jan 29 07:37:00 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.121  | 96   | 15007    | 1.00  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.642 | 95   | 5791     | 1.00  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 100.00% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.201 | 152  | 5783     | 1.00  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 100.00% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.388  | 85   | 27641    | 4.78  | ug/l    | 99       |
| 3) Chloromethane             | 1.523  | 50   | 24763    | 4.65  | ug/l    | 97       |
| 4) Vinyl Chloride            | 1.610  | 62   | 23803    | 4.73  | ug/l    | 97       |
| 5) Bromomethane              | 1.864  | 94   | 11999    | 3.69  | ug/l    | 98       |
| 6) Chloroethane              | 1.941  | 64   | 13803    | 4.76  | ug/l    | 100      |
| 7) Trichlorofluoromethane    | 2.147  | 101  | 34077    | 4.80  | ug/l    | 98       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.591  | 101  | 18111    | 4.76  | ug/l    | 99       |
| 9) 1,1-Dichloroethene        | 2.591  | 96   | 16384    | 4.77  | ug/l    | 93       |
| 10) Iodomethane              | 2.732  | 142  | 24637    | 5.20  | ug/l    | 100      |
| 11) Allyl Chloride           | 2.932  | 41   | 32799    | 4.88  | ug/l    | 99       |
| 12) Acrylonitrile            | 3.327  | 53   | 8268     | 10.17 | ug/l    | 95       |
| 13) Acetone                  | 2.639  | 43   | 13693    | 23.95 | ug/l    | 94       |
| 14) Carbon Disulfide         | 2.803  | 76   | 53066    | 4.69  | ug/l    | 99       |
| 15) Methylene Chloride       | 3.057  | 84   | 17898    | 4.58  | ug/l    | 99       |
| 16) trans-1,2-Dichloroethene | 3.362  | 96   | 17827    | 4.87  | ug/l    | 97       |
| 17) 1,1-Dichloroethane       | 3.880  | 63   | 34890    | 4.86  | ug/l    | 99       |
| 18) 2-Butanone               | 4.732  | 43   | 26423    | 24.62 | ug/l    | 98       |
| 19) Cyclohexane              | 5.394  | 56   | 34180m   | 5.22  | ug/l    |          |
| 20) Methylcyclohexane        | 6.771  | 83   | 35243    | 4.94  | ug/l    | 99       |
| 21) 2,2-Dichloropropane      | 4.677  | 77   | 31550    | 4.47  | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene   | 4.677  | 96   | 19418    | 4.80  | ug/l    | 99       |
| 23) Diethyl Ether            | 2.385  | 59   | 13576    | 4.79  | ug/l    | 100      |
| 24) tert-Butyl Alcohol       | 3.215  | 59   | 9421     | 41.48 | ug/l    | 97       |
| 25) Methyl tert-Butyl Ether  | 3.378  | 73   | 47725    | 4.77  | ug/l    | 99       |
| 26) Bromochloromethane       | 4.986  | 128  | 9022     | 4.87  | ug/l    | 99       |
| 27) Chloroform               | 5.102  | 83   | 33960    | 4.72  | ug/l    | 99       |
| 28) 1,1,1-Trichloroethane    | 5.324  | 97   | 32100    | 4.74  | ug/l    | 99       |
| 29) 1,1-Dichloropropene      | 5.536  | 75   | 29671    | 5.04  | ug/l    | 98       |
| 30) Carbon Tetrachloride     | 5.530  | 117  | 30469    | 4.90  | ug/l    | 97       |
| 31) Isopropyl Ether          | 4.012  | 45   | 63486    | 4.79  | ug/l    | 99       |
| 32) Ethyl-t-butyl ether      | 4.523  | 59   | 58109    | 4.84  | ug/l    | 99       |
| 33) Tert-Amyl methyl ether   | 5.960  | 73   | 53356    | 4.82  | ug/l    | 100      |
| 34) Propionitrile            | 4.803  | 54   | 6394     | 23.35 | ug/l #  | 95       |
| 35) Benzene                  | 5.784  | 78   | 78243    | 4.84  | ug/l    | 99       |
| 36) 1,2-Dichloroethane       | 5.809  | 62   | 28463    | 4.96  | ug/l    | 100      |
| 37) Trichloroethene          | 6.552  | 130  | 21050    | 4.82  | ug/l    | 98       |
| 38) 1,2-Dichloropropane      | 6.803  | 63   | 21767    | 5.00  | ug/l    | 98       |
| 39) Methacrylonitrile        | 4.996  | 41   | 8117     | 4.79  | ug/l    | 97       |
| 40) Methyl acrylate          | 4.864  | 55   | 10556    | 4.61  | ug/l #  | 94       |
| 41) Tetrahydrofuran          | 5.079  | 42   | 7126     | 8.52  | ug/l    | 99       |
| 42) 1-Chlorobutane           | 5.468  | 56   | 43210    | 4.90  | ug/l    | 99       |
| 43) Dibromomethane           | 6.931  | 93   | 11315    | 4.86  | ug/l    | 99       |
| 44) Bromodichloromethane     | 7.118  | 83   | 27264    | 4.67  | ug/l    | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU012821\  
 Data File : VU042205.D  
 Acq On : 28 Jan 2021 14:56  
 Operator : SY/MD  
 Sample : VSTDIC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

SAM  
 2/3/2021 5:10:18 PM

Quant Time: Jan 29 07:39:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U012821DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Jan 29 07:37:00 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.809  | 43   | 92529    | 25.49 | ug/l  | 100      |
| 46) t-1,4-Dichloro-2-butene   | 10.848 | 75   | 12170m   | 9.49  | ug/l  |          |
| 47) Methyl methacrylate       | 6.976  | 69   | 22638    | 9.49  | ug/l  | 97       |
| 48) Ethyl methacrylate        | 8.346  | 69   | 24693    | 5.06  | ug/l  | 99       |
| 49) Toluene                   | 7.980  | 92   | 49436    | 4.84  | ug/l  | 100      |
| 50) t-1,3-Dichloropropene     | 8.221  | 75   | 28591    | 4.95  | ug/l  | 99       |
| 51) cis-1,3-Dichloropropene   | 7.619  | 75   | 31480    | 4.81  | ug/l  | 99       |
| 52) 1,1,2-Trichloroethane     | 8.410  | 97   | 15744    | 5.00  | ug/l  | 98       |
| 53) 1,3-Dichloropropane       | 8.587  | 76   | 28139    | 4.92  | ug/l  | 99       |
| 54) 2-Hexanone                | 8.700  | 43   | 67789    | 26.72 | ug/l  | 99       |
| 55) Dibromochloromethane      | 8.819  | 129  | 19032    | 4.82  | ug/l  | 98       |
| 56) 1,2-Dibromoethane         | 8.935  | 107  | 15683    | 4.87  | ug/l  | 100      |
| 58) Tetrachloroethene         | 8.562  | 164  | 18554    | 4.41  | ug/l  | 98       |
| 59) Chlorobenzene             | 9.455  | 112  | 53216    | 4.93  | ug/l  | 100      |
| 60) 1,1,1,2-Tetrachloroethane | 9.542  | 131  | 20471    | 4.87  | ug/l  | 97       |
| 61) Pentachloroethane         | 11.439 | 117  | 15702    | 5.29  | ug/l  | 100      |
| 62) Hexachloroethane          | 12.484 | 117  | 15707    | 4.91  | ug/l  | 99       |
| 63) Ethyl Benzene             | 9.578  | 91   | 97074    | 4.96  | ug/l  | 100      |
| 64) m/p-Xylenes               | 9.703  | 106  | 72313    | 9.94  | ug/l  | 100      |
| 65) o-Xylene                  | 10.108 | 106  | 35523    | 4.96  | ug/l  | 100      |
| 66) Styrene                   | 10.124 | 104  | 59767    | 4.97  | ug/l  | 99       |
| 67) Bromoform                 | 10.301 | 173  | 11721    | 4.58  | ug/l  | 99       |
| 69) Isopropylbenzene          | 10.494 | 105  | 96373    | 4.99  | ug/l  | 99       |
| 70) 1,1,2,2-Tetrachloroethane | 10.793 | 83   | 20123    | 5.09  | ug/l  | 99       |
| 71) 1,2,3-Trichloropropane    | 10.838 | 75   | 14066m   | 4.45  | ug/l  |          |
| 72) Bromobenzene              | 10.790 | 156  | 24287    | 4.99  | ug/l  | 98       |
| 73) n-propylbenzene           | 10.915 | 120  | 25637    | 5.11  | ug/l  | 98       |
| 74) 2-Chlorotoluene           | 10.996 | 126  | 22373    | 4.96  | ug/l  | 96       |
| 75) 1,3,5-Trimethylbenzene    | 11.095 | 105  | 82907    | 5.07  | ug/l  | 100      |
| 76) 4-Chlorotoluene           | 11.105 | 126  | 23416    | 5.08  | ug/l  | 100      |
| 77) tert-Butylbenzene         | 11.430 | 119  | 81757    | 5.01  | ug/l  | 98       |
| 78) 1,2,4-Trimethylbenzene    | 11.478 | 105  | 84450    | 5.18  | ug/l  | 99       |
| 79) sec-Butylbenzene          | 11.651 | 105  | 105262   | 5.09  | ug/l  | 100      |
| 80) Nitrobenzene              | 13.217 | 77   | 2871     | 24.99 | ug/l  | 96       |
| 81) p-Isopropyltoluene        | 11.803 | 119  | 90185    | 5.19  | ug/l  | 99       |
| 82) 1,3-Dichlorobenzene       | 11.754 | 146  | 45447    | 5.07  | ug/l  | 99       |
| 83) 1,4-Dichlorobenzene       | 11.844 | 146  | 45546    | 5.13  | ug/l  | 99       |
| 84) n-Butylbenzene            | 12.217 | 91   | 85419    | 5.57  | ug/l  | 100      |
| 85) 1,2-Dichlorobenzene       | 12.221 | 146  | 44065    | 5.08  | ug/l  | 99       |
| 86) 1,2-Dibromo-3-Chloropr... | 13.005 | 75   | 4290     | 5.34  | ug/l  | 97       |
| 87) 1,2,4-Trichlorobenzene    | 13.851 | 180  | 34027    | 5.79  | ug/l  | 100      |
| 88) Hexachlorobutadiene       | 14.031 | 225  | 19084    | 5.45  | ug/l  | 99       |
| 89) Naphthalene               | 14.095 | 128  | 64058    | 6.10  | ug/l  | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.339 | 180  | 31087    | 5.59  | ug/l  | 97       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU012821\  
 Data File : VU042205.D  
 Acq On : 28 Jan 2021 14:56  
 Operator : SY/MD  
 Sample : VSTDIC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTDIC005

Manual Integrations  
 APPROVED

SAM  
 2/3/2021 5:10:18 PM

Quant Time: Jan 29 07:39:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U012821DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Jan 29 07:37:00 2021  
 Response via : Initial Calibration

