

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU082522\  
 Data File : VU050446.D  
 Acq On : 25 Aug 2022 17:21  
 Operator : SY/MD  
 Sample : N3980-08 1.0PPB  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 LOQ-WATER-02-QT3-2022

Quant Time: Aug 26 06:38:29 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U081922DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Aug 25 14:01:59 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.108  | 96   | 31630    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.636 | 95   | 9894     | 0.919 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 92.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.195 | 152  | 12465    | 0.979 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 98.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.385  | 85   | 12470    | 0.952 | ug/l    | 94       |
| 3) Chloromethane             | 1.520  | 50   | 16893    | 1.060 | ug/l    | 98       |
| 4) Vinyl Chloride            | 1.604  | 62   | 12792    | 0.939 | ug/l    | 99       |
| 5) Bromomethane              | 1.855  | 94   | 6060     | 1.088 | ug/l    | 96       |
| 6) Chloroethane              | 1.932  | 64   | 8504     | 1.033 | ug/l    | 96       |
| 7) Trichlorofluoromethane    | 2.137  | 101  | 16555    | 0.974 | ug/l    | 99       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.581  | 101  | 9898     | 1.042 | ug/l    | 93       |
| 9) 1,1-Dichloroethene        | 2.578  | 96   | 9300     | 0.998 | ug/l    | 94       |
| 10) Iodomethane              | 2.719  | 142  | 4789     | 0.623 | ug/l    | 95       |
| 11) Allyl Chloride           | 2.919  | 41   | 15332    | 1.068 | ug/l    | 96       |
| 12) Acrylonitrile            | 3.321  | 53   | 5862     | 2.098 | ug/l    | 95       |
| 13) Acetone                  | 2.633  | 43   | 10182    | 5.211 | ug/l    | 99       |
| 14) Carbon Disulfide         | 2.790  | 76   | 27209    | 0.943 | ug/l    | 99       |
| 15) Methylene Chloride       | 3.044  | 84   | 15767    | 1.251 | ug/l    | 93       |
| 16) trans-1,2-Dichloroethene | 3.346  | 96   | 9991     | 1.038 | ug/l    | 86       |
| 17) 1,1-Dichloroethane       | 3.867  | 63   | 21351    | 1.065 | ug/l    | 99       |
| 18) 2-Butanone               | 4.735  | 43   | 17528    | 5.703 | ug/l    | 98       |
| 19) Cyclohexane              | 5.372  | 56   | 14846m   | 1.020 | ug/l    |          |
| 20) Methylcyclohexane        | 6.751  | 83   | 9506     | 0.829 | ug/l    | 93       |
| 21) 2,2-Dichloropropane      | 4.661  | 77   | 14631    | 0.960 | ug/l    | 97       |
| 22) cis-1,2-Dichloroethene   | 4.665  | 96   | 11175    | 1.026 | ug/l    | 89       |
| 23) Diethyl Ether            | 2.379  | 59   | 8506     | 1.063 | ug/l    | 98       |
| 24) tert-Butyl Alcohol       | 3.195  | 59   | 9420     | 9.301 | ug/l    | # 82     |
| 25) Methyl tert-Butyl Ether  | 3.372  | 73   | 25240    | 1.020 | ug/l    | 96       |
| 26) Bromochloromethane       | 4.973  | 128  | 5459     | 1.249 | ug/l    | 94       |
| 27) Chloroform               | 5.086  | 83   | 21107    | 1.086 | ug/l    | 96       |
| 28) 1,1,1-Trichloroethane    | 5.308  | 97   | 15938    | 0.961 | ug/l    | 95       |
| 29) 1,1-Dichloropropene      | 5.517  | 75   | 14498    | 1.091 | ug/l    | 93       |
| 30) Carbon Tetrachloride     | 5.510  | 117  | 12580    | 0.948 | ug/l    | 98       |
| 31) Isopropyl Ether          | 4.002  | 45   | 35877    | 1.153 | ug/l    | 98       |
| 32) Ethyl-t-butyl ether      | 4.523  | 59   | 25000    | 1.023 | ug/l    | 100      |
| 33) Tert-Amyl methyl ether   | 5.954  | 73   | 15202    | 0.954 | ug/l    | 96       |
| 34) Propionitrile            | 4.797  | 54   | 5164     | 5.688 | ug/l    | # 93     |
| 35) Benzene                  | 5.768  | 78   | 44631    | 1.143 | ug/l    | 100      |
| 36) 1,2-Dichloroethane       | 5.796  | 62   | 13438    | 1.127 | ug/l    | 98       |
| 37) Trichloroethene          | 6.539  | 130  | 8873     | 0.948 | ug/l    | 98       |
| 38) 1,2-Dichloropropane      | 6.796  | 63   | 10226    | 0.976 | ug/l    | 97       |
| 39) Methacrylonitrile        | 4.989  | 41   | 4621     | 1.241 | ug/l    | 95       |
| 40) Methyl acrylate          | 4.861  | 55   | 7631     | 1.345 | ug/l    | # 96     |
| 41) Tetrahydrofuran          | 5.076  | 42   | 5375     | 2.882 | ug/l    | # 88     |
| 42) 1-Chlorobutane           | 5.452  | 56   | 19056    | 1.008 | ug/l    | 99       |
| 43) Dibromomethane           | 6.919  | 93   | 5634     | 0.997 | ug/l    | 95       |
| 44) Bromodichloromethane     | 7.108  | 83   | 13774    | 1.033 | ug/l    | 98       |

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 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 LOQ-WATER-02-QT3-2022

Quant Time: Aug 26 06:38:29 2022  
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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Aug 25 14:01:59 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.812  | 43   | 24278    | 4.281 | ug/l   | 97       |
| 46) t-1,4-Dichloro-2-butene   | 10.832 | 75   | 4734m    | 1.885 | ug/l   |          |
| 47) Methyl methacrylate       | 6.976  | 69   | 7393     | 2.340 | ug/l   | 89       |
| 48) Ethyl methacrylate        | 8.346  | 69   | 6326     | 1.177 | ug/l   | 88       |
| 49) Toluene                   | 7.970  | 92   | 17065    | 0.813 | ug/l   | 93       |
| 50) t-1,3-Dichloropropene     | 8.218  | 75   | 8958     | 0.863 | ug/l # | 83       |
| 51) cis-1,3-Dichloropropene   | 7.610  | 75   | 10937    | 0.920 | ug/l   | 92       |
| 52) 1,1,2-Trichloroethane     | 8.404  | 97   | 8793     | 1.059 | ug/l   | 97       |
| 53) 1,3-Dichloropropane       | 8.581  | 76   | 13116    | 1.003 | ug/l   | 97       |
| 54) 2-Hexanone                | 8.703  | 43   | 16487    | 4.175 | ug/l   | 92       |
| 55) Dibromochloromethane      | 8.812  | 129  | 9111     | 0.997 | ug/l   | 100      |
| 56) 1,2-Dibromoethane         | 8.928  | 107  | 6955     | 0.933 | ug/l   | 97       |
| 58) Tetrachloroethene         | 8.552  | 164  | 8090     | 0.918 | ug/l   | 96       |
| 59) Chlorobenzene             | 9.449  | 112  | 20897    | 0.923 | ug/l   | 91       |
| 60) 1,1,1,2-Tetrachloroethane | 9.536  | 131  | 9448     | 0.993 | ug/l   | 96       |
| 61) Pentachloroethane         | 11.430 | 117  | 8116     | 1.025 | ug/l   | 92       |
| 62) Hexachloroethane          | 12.478 | 117  | 6947     | 1.055 | ug/l   | 92       |
| 63) Ethyl Benzene             | 9.571  | 91   | 29361    | 1.174 | ug/l   | 99       |
| 64) m/p-Xylenes               | 9.693  | 106  | 21466    | 2.201 | ug/l   | 91       |
| 65) o-Xylene                  | 10.102 | 106  | 10606    | 1.106 | ug/l   | 98       |
| 66) Styrene                   | 10.118 | 104  | 15523    | 1.084 | ug/l   | 95       |
| 67) Bromoform                 | 10.295 | 173  | 4992     | 0.962 | ug/l # | 97       |
| 69) Isopropylbenzene          | 10.484 | 105  | 27179    | 1.142 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 11431    | 1.000 | ug/l   | 99       |
| 71) 1,2,3-Trichloropropane    | 10.828 | 75   | 7387m    | 0.860 | ug/l   |          |
| 72) Bromobenzene              | 10.783 | 156  | 8678     | 0.888 | ug/l   | 92       |
| 73) n-propylbenzene           | 10.906 | 120  | 7771     | 1.177 | ug/l   | 90       |
| 74) 2-Chlorotoluene           | 10.989 | 126  | 7800     | 1.052 | ug/l   | 88       |
| 75) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 21699    | 1.038 | ug/l   | 97       |
| 76) 4-Chlorotoluene           | 11.102 | 126  | 7246     | 0.990 | ug/l   | 79       |
| 77) tert-Butylbenzene         | 11.420 | 119  | 24889    | 1.122 | ug/l   | 94       |
| 78) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 23021    | 1.084 | ug/l   | 95       |
| 79) sec-Butylbenzene          | 11.645 | 105  | 30000    | 1.099 | ug/l   | 100      |
| 80) Nitrobenzene              | 13.217 | 77   | 4027     | 6.496 | ug/l   | 97       |
| 81) p-Isopropyltoluene        | 11.793 | 119  | 23587    | 1.131 | ug/l   | 98       |
| 82) 1,3-Dichlorobenzene       | 11.748 | 146  | 19618    | 0.975 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene       | 11.838 | 146  | 18831m   | 0.941 | ug/l   |          |
| 84) n-Butylbenzene            | 12.211 | 91   | 24073    | 1.175 | ug/l   | 96       |
| 85) 1,2-Dichlorobenzene       | 12.214 | 146  | 19077    | 0.964 | ug/l   | 100      |
| 86) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 1700     | 0.943 | ug/l   | 95       |
| 87) 1,2,4-Trichlorobenzene    | 13.844 | 180  | 11003    | 0.975 | ug/l   | 98       |
| 88) Hexachlorobutadiene       | 14.024 | 225  | 6934     | 0.944 | ug/l   | 97       |
| 89) Naphthalene               | 14.092 | 128  | 22951    | 1.638 | ug/l   | 98       |
| 90) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 11639    | 1.251 | ug/l   | 98       |

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

