

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU091123\  
 Data File : VU055235.D  
 Acq On : 11 Sep 2023 15:14  
 Operator : MD/SY  
 Sample : RL-CHECK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/12/2023  
 Supervised By : Mahesh Dadoda 09/12/2023

Quant Time: Sep 12 09:00:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U091123DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Sep 12 08:56:31 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Fluorobenzene             | 6.113  | 96   | 54118    | 1.000  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 57) 4-Bromofluorobenzene     | 10.634 | 95   | 19911    | 0.948  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 95.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.193 | 152  | 19461    | 0.951  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 95.000% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.383  | 85   | 8698     | 0.464  | ug/l    | 99       |
| 3) Chloromethane             | 1.515  | 50   | 9442     | 0.482  | ug/l    | 92       |
| 4) Vinyl Chloride            | 1.602  | 62   | 9010     | 0.439  | ug/l    | 100      |
| 5) Bromomethane              | 1.850  | 94   | 9745     | 0.602  | ug/l    | 92       |
| 6) Chloroethane              | 1.927  | 64   | 6592     | 0.507  | ug/l    | 98       |
| 7) Trichlorofluoromethane    | 2.136  | 101  | 14139    | 0.496  | ug/l    | 93       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101  | 6805     | 0.471  | ug/l    | 97       |
| 9) 1,1-Dichloroethene        | 2.580  | 96   | 6535     | 0.495  | ug/l    | 85       |
| 10) Iodomethane              | 2.718  | 142  | 5734     | 0.338  | ug/l    | 98       |
| 11) Allyl Chloride           | 2.924  | 41   | 7694     | 0.466  | ug/l #  | 83       |
| 12) Acrylonitrile            | 3.338  | 53   | 2379     | 0.948  | ug/l #  | 69       |
| 13) Acetone                  | 2.634  | 43   | 15104    | 3.472  | ug/l    | 90       |
| 14) Carbon Disulfide         | 2.789  | 76   | 20582    | 0.481  | ug/l    | 97       |
| 15) Methylene Chloride       | 3.043  | 84   | 13843    | 0.876  | ug/l    | 93       |
| 16) trans-1,2-Dichloroethene | 3.354  | 96   | 7147     | 0.454  | ug/l    | 91       |
| 17) 1,1-Dichloroethane       | 3.869  | 63   | 13124    | 0.438  | ug/l #  | 93       |
| 18) 2-Butanone               | 4.721  | 43   | 11253    | 2.268  | ug/l    | 91       |
| 19) Cyclohexane              | 5.383  | 56   | 9752     | 0.441  | ug/l    | 93       |
| 20) Methylcyclohexane        | 6.763  | 83   | 10671    | 0.388  | ug/l    | 96       |
| 21) 2,2-Dichloropropane      | 4.660  | 77   | 13156    | 0.545  | ug/l #  | 91       |
| 22) cis-1,2-Dichloroethene   | 4.669  | 96   | 9154     | 0.455  | ug/l    | 90       |
| 23) Diethyl Ether            | 2.374  | 59   | 5736     | 0.533  | ug/l    | 91       |
| 24) tert-Butyl Alcohol       | 3.187  | 59   | 22918    | 27.411 | ug/l #  | 1        |
| 25) Methyl tert-Butyl Ether  | 3.361  | 73   | 14628    | 0.481  | ug/l    | 95       |
| 26) Bromochloromethane       | 4.975  | 128  | 3301     | 0.450  | ug/l    | 96       |
| 27) Chloroform               | 5.091  | 83   | 14371    | 0.453  | ug/l    | 88       |
| 28) 1,1,1-Trichloroethane    | 5.316  | 97   | 11608    | 0.425  | ug/l    | 95       |
| 29) 1,1-Dichloropropene      | 5.531  | 75   | 9009     | 0.398  | ug/l    | 93       |
| 30) Carbon Tetrachloride     | 5.522  | 117  | 9820     | 0.414  | ug/l    | 92       |
| 31) Isopropyl Ether          | 3.991  | 45   | 17035    | 0.433  | ug/l    | 99       |
| 32) Ethyl-t-butyl ether      | 4.502  | 59   | 17282    | 0.454  | ug/l    | 94       |
| 33) Tert-Amyl methyl ether   | 5.943  | 73   | 14589    | 0.435  | ug/l    | 97       |
| 34) Propionitrile            | 4.811  | 54   | 1243     | 1.384  | ug/l #  | 15       |
| 35) Benzene                  | 5.772  | 78   | 29247    | 0.437  | ug/l    | 99       |
| 36) 1,2-Dichloroethane       | 5.798  | 62   | 8294     | 0.444  | ug/l #  | 88       |
| 37) Trichloroethene          | 6.544  | 130  | 8897     | 0.455  | ug/l    | 85       |
| 38) 1,2-Dichloropropane      | 6.798  | 63   | 7102     | 0.405  | ug/l    | 93       |
| 41) Tetrahydrofuran          | 5.068  | 42   | 2192     | 1.104  | ug/l    | 90       |
| 42) 1-Chlorobutane           | 5.460  | 56   | 12782    | 0.438  | ug/l    | 90       |
| 43) Dibromomethane           | 6.920  | 93   | 3665     | 0.442  | ug/l    | 97       |
| 44) Bromodichloromethane     | 7.107  | 83   | 9541     | 0.444  | ug/l    | 99       |
| 45) 4-Methyl-2-Pentanone     | 7.795  | 43   | 19828    | 2.519  | ug/l    | 97       |
| 46) t-1,4-Dichloro-2-butene  | 10.840 | 75   | 1933m    | 0.657  | ug/l    |          |

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 Acq On : 11 Sep 2023 15:14  
 Operator : MD/SY  
 Sample : RL-CHECK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/12/2023  
 Supervised By : Mahesh Dadoda 09/12/2023

Quant Time: Sep 12 09:00:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U091123DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Sep 12 08:56:31 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 47) Methyl methacrylate       | 6.975  | 69   | 5399     | 0.847 | ug/l   | 93       |
| 48) Ethyl methacrylate        | 8.341  | 69   | 5917     | 0.478 | ug/l   | 85       |
| 49) Toluene                   | 7.972  | 92   | 17743    | 0.437 | ug/l   | 100      |
| 50) t-1,3-Dichloropropene     | 8.213  | 75   | 8053     | 0.445 | ug/l   | 99       |
| 51) cis-1,3-Dichloropropene   | 7.611  | 75   | 9314     | 0.410 | ug/l   | 96       |
| 52) 1,1,2-Trichloroethane     | 8.402  | 97   | 6021     | 0.514 | ug/l   | 96       |
| 53) 1,3-Dichloropropane       | 8.579  | 76   | 10035    | 0.505 | ug/l   | 94       |
| 54) 2-Hexanone                | 8.689  | 43   | 20291    | 2.691 | ug/l   | 92       |
| 55) Dibromochloromethane      | 8.808  | 129  | 5918     | 0.448 | ug/l   | 100      |
| 56) 1,2-Dibromoethane         | 8.927  | 107  | 5188     | 0.487 | ug/l   | 97       |
| 58) Tetrachloroethene         | 8.554  | 164  | 9869     | 0.467 | ug/l   | 96       |
| 59) Chlorobenzene             | 9.451  | 112  | 20756    | 0.457 | ug/l   | 100      |
| 60) 1,1,1,2-Tetrachloroethane | 9.531  | 131  | 6562     | 0.436 | ug/l   | 99       |
| 61) Pentachloroethane         | 11.425 | 117  | 2909     | 0.415 | ug/l # | 79       |
| 62) Hexachloroethane          | 12.473 | 117  | 4116     | 0.358 | ug/l   | 98       |
| 63) Ethyl Benzene             | 9.573  | 91   | 32290    | 0.420 | ug/l   | 99       |
| 64) m/p-Xylenes               | 9.695  | 106  | 23739    | 0.798 | ug/l   | 97       |
| 65) o-Xylene                  | 10.103 | 106  | 11858    | 0.411 | ug/l   | 98       |
| 66) Styrene                   | 10.119 | 104  | 17833    | 0.396 | ug/l   | 94       |
| 67) Bromoform                 | 10.293 | 173  | 2779     | 0.416 | ug/l # | 96       |
| 69) Isopropylbenzene          | 10.483 | 105  | 30962    | 0.410 | ug/l   | 97       |
| 70) 1,1,2,2-Tetrachloroethane | 10.785 | 83   | 5853     | 0.492 | ug/l # | 88       |
| 71) 1,2,3-Trichloropropane    | 10.824 | 75   | 3421m    | 0.322 | ug/l   |          |
| 72) Bromobenzene              | 10.788 | 156  | 7676     | 0.443 | ug/l   | 97       |
| 73) n-propylbenzene           | 10.907 | 120  | 8238     | 0.402 | ug/l   | 97       |
| 74) 2-Chlorotoluene           | 10.988 | 126  | 8119     | 0.444 | ug/l   | 85       |
| 75) 1,3,5-Trimethylbenzene    | 11.090 | 105  | 26487    | 0.408 | ug/l   | 95       |
| 76) 4-Chlorotoluene           | 11.103 | 126  | 7530     | 0.401 | ug/l   | 99       |
| 77) tert-Butylbenzene         | 11.418 | 119  | 23592    | 0.411 | ug/l   | 96       |
| 78) 1,2,4-Trimethylbenzene    | 11.470 | 105  | 23261    | 0.354 | ug/l   | 97       |
| 79) sec-Butylbenzene          | 11.643 | 105  | 31172    | 0.373 | ug/l   | 100      |
| 80) Nitrobenzene              | 13.225 | 77   | 438      | 1.540 | ug/l # | 40       |
| 81) p-Isopropyltoluene        | 11.795 | 119  | 24636    | 0.365 | ug/l   | 97       |
| 82) 1,3-Dichlorobenzene       | 11.750 | 146  | 17401    | 0.467 | ug/l   | 95       |
| 83) 1,4-Dichlorobenzene       | 11.840 | 146  | 16002    | 0.439 | ug/l   | 95       |
| 84) n-Butylbenzene            | 12.213 | 91   | 24181    | 0.394 | ug/l   | 98       |
| 85) 1,2-Dichlorobenzene       | 12.216 | 146  | 15841    | 0.464 | ug/l   | 97       |
| 86) 1,2-Dibromo-3-Chloropr... | 13.000 | 75   | 837      | 0.425 | ug/l # | 90       |
| 87) 1,2,4-Trichlorobenzene    | 13.843 | 180  | 9019     | 0.458 | ug/l   | 96       |
| 88) Hexachlorobutadiene       | 14.020 | 225  | 5360     | 0.426 | ug/l   | 96       |
| 89) Naphthalene               | 14.094 | 128  | 14856    | 0.528 | ug/l   | 98       |
| 90) 1,2,3-Trichlorobenzene    | 14.331 | 180  | 8055     | 0.472 | ug/l   | 95       |

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

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 Data File : VU055235.D  
 Acq On : 11 Sep 2023 15:14  
 Operator : MD/SY  
 Sample : RL-CHECK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL-CHECK

Quant Time: Sep 12 09:00:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U091123DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Sep 12 08:56:31 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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