

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU061224\  
 Data File : VU059221.D  
 Acq On : 12 Jun 2024 14:14  
 Operator : MD/SY  
 Sample : P2403-09  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT2-2024

Quant Time: Jun 13 04:37:51 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U060524DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jun 13 04:35:23 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.113  | 96   | 42066    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.631 | 95   | 12579    | 0.879 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 88.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 14446    | 0.964 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 96.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.380  | 85   | 6459     | 0.490 | ug/l    | 95       |
| 3) Chloromethane             | 1.515  | 50   | 8340     | 0.526 | ug/l    | 97       |
| 4) Vinyl Chloride            | 1.599  | 62   | 8018     | 0.500 | ug/l    | 96       |
| 5) Bromomethane              | 1.853  | 94   | 5356     | 0.550 | ug/l    | 98       |
| 6) Chloroethane              | 1.930  | 64   | 5002     | 0.485 | ug/l    | 93       |
| 7) Trichlorofluoromethane    | 2.133  | 101  | 9703     | 0.488 | ug/l    | 95       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.580  | 101  | 5236     | 0.512 | ug/l    | 97       |
| 9) 1,1-Dichloroethene        | 2.573  | 96   | 5356     | 0.529 | ug/l    | 90       |
| 10) Iodomethane              | 2.715  | 142  | 5692     | 0.446 | ug/l    | 99       |
| 11) Allyl Chloride           | 2.917  | 41   | 5909     | 0.432 | ug/l    | 93       |
| 12) Acrylonitrile            | 3.351  | 53   | 2066m    | 0.903 | ug/l    |          |
| 13) Acetone                  | 2.644  | 43   | 8796m    | 2.525 | ug/l    |          |
| 14) Carbon Disulfide         | 2.789  | 76   | 16710    | 0.517 | ug/l    | 95       |
| 15) Methylene Chloride       | 3.039  | 84   | 18907    | 1.361 | ug/l    | 96       |
| 16) trans-1,2-Dichloroethene | 3.355  | 96   | 5590     | 0.506 | ug/l    | 97       |
| 17) 1,1-Dichloroethane       | 3.863  | 63   | 11561    | 0.499 | ug/l    | 96       |
| 18) 2-Butanone               | 4.744  | 43   | 7853m    | 2.032 | ug/l    |          |
| 19) Cyclohexane              | 5.380  | 56   | 7201m    | 0.430 | ug/l    |          |
| 20) Methylcyclohexane        | 6.756  | 83   | 7510     | 0.446 | ug/l    | 98       |
| 21) 2,2-Dichloropropane      | 4.657  | 77   | 8153     | 0.476 | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene   | 4.666  | 96   | 6410     | 0.534 | ug/l    | 91       |
| 23) Diethyl Ether            | 2.371  | 59   | 4310     | 0.454 | ug/l    | # 82     |
| 24) tert-Butyl Alcohol       | 3.239  | 59   | 2578m    | 4.230 | ug/l    |          |
| 25) Methyl tert-Butyl Ether  | 3.355  | 73   | 11861    | 0.488 | ug/l    | 100      |
| 26) Bromochloromethane       | 4.975  | 128  | 2845     | 0.561 | ug/l    | 90       |
| 27) Chloroform               | 5.084  | 83   | 12386    | 0.532 | ug/l    | 99       |
| 28) 1,1,1-Trichloroethane    | 5.309  | 97   | 9008     | 0.491 | ug/l    | 99       |
| 29) 1,1-Dichloropropene      | 5.528  | 75   | 7134     | 0.464 | ug/l    | 98       |
| 30) Carbon Tetrachloride     | 5.518  | 117  | 7891m    | 0.524 | ug/l    |          |
| 31) Isopropyl Ether          | 3.985  | 45   | 13600    | 0.448 | ug/l    | 94       |
| 32) Ethyl-t-butyl ether      | 4.493  | 59   | 13136    | 0.465 | ug/l    | 100      |
| 33) Tert-Amyl methyl ether   | 5.936  | 73   | 11317m   | 0.454 | ug/l    |          |
| 34) Propionitrile            | 4.821  | 54   | 1983m    | 2.240 | ug/l    |          |
| 35) Benzene                  | 5.773  | 78   | 23960    | 0.495 | ug/l    | 99       |
| 36) 1,2-Dichloroethane       | 5.795  | 62   | 7523     | 0.525 | ug/l    | # 88     |
| 37) Trichloroethene          | 6.541  | 130  | 5924     | 0.513 | ug/l    | 100      |
| 38) 1,2-Dichloropropane      | 6.789  | 63   | 6695     | 0.488 | ug/l    | 98       |
| 39) Methacrylonitrile        | 4.998  | 41   | 1321m    | 0.400 | ug/l    |          |
| 40) Methyl acrylate          | 4.879  | 55   | 2361m    | 0.408 | ug/l    |          |
| 41) Tetrahydrofuran          | 5.081  | 42   | 1763m    | 0.999 | ug/l    |          |
| 42) 1-Chlorobutane           | 5.457  | 56   | 9829     | 0.463 | ug/l    | 96       |
| 43) Dibromomethane           | 6.920  | 93   | 3091     | 0.497 | ug/l    | # 87     |
| 44) Bromodichloromethane     | 7.100  | 83   | 8473     | 0.526 | ug/l    | 96       |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT2-2024

Quant Time: Jun 13 04:37:51 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U060524DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jun 13 04:35:23 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.792  | 43   | 14540m   | 2.181 | ug/l   |          |
| 46) t-1,4-Dichloro-2-butene   | 10.830 | 75   | 3115m    | 1.101 | ug/l   |          |
| 47) Methyl methacrylate       | 6.969  | 69   | 4445m    | 0.832 | ug/l   |          |
| 48) Ethyl methacrylate        | 8.335  | 69   | 3657     | 0.388 | ug/l   | 98       |
| 49) Toluene                   | 7.969  | 92   | 12653m   | 0.475 | ug/l   |          |
| 50) t-1,3-Dichloropropene     | 8.213  | 75   | 5885     | 0.427 | ug/l   | 92       |
| 51) cis-1,3-Dichloropropene   | 7.608  | 75   | 7576     | 0.449 | ug/l   | 94       |
| 52) 1,1,2-Trichloroethane     | 8.396  | 97   | 4586     | 0.499 | ug/l   | 90       |
| 53) 1,3-Dichloropropane       | 8.570  | 76   | 8060     | 0.509 | ug/l   | 93       |
| 54) 2-Hexanone                | 8.692  | 43   | 10659m   | 2.063 | ug/l   |          |
| 55) Dibromochloromethane      | 8.805  | 129  | 4866     | 0.489 | ug/l   | 98       |
| 56) 1,2-Dibromoethane         | 8.920  | 107  | 4097     | 0.508 | ug/l   | 85       |
| 58) Tetrachloroethene         | 8.551  | 164  | 5424     | 0.509 | ug/l   | 97       |
| 59) Chlorobenzene             | 9.448  | 112  | 14185    | 0.487 | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane | 9.528  | 131  | 5203     | 0.499 | ug/l   | 96       |
| 61) Pentachloroethane         | 11.419 | 117  | 3519     | 0.435 | ug/l   | 97       |
| 62) Hexachloroethane          | 12.467 | 117  | 3767     | 0.458 | ug/l   | 96       |
| 63) Ethyl Benzene             | 9.567  | 91   | 20858    | 0.424 | ug/l   | 100      |
| 64) m/p-Xylenes               | 9.692  | 106  | 14778    | 0.796 | ug/l   | 98       |
| 65) o-Xylene                  | 10.097 | 106  | 7147     | 0.391 | ug/l   | 99       |
| 66) Styrene                   | 10.116 | 104  | 11522    | 0.394 | ug/l   | 98       |
| 67) Bromoform                 | 10.287 | 173  | 2530     | 0.470 | ug/l   | 98       |
| 69) Isopropylbenzene          | 10.480 | 105  | 18557    | 0.396 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane | 10.779 | 83   | 5666     | 0.491 | ug/l   | 93       |
| 71) 1,2,3-Trichloropropane    | 10.830 | 75   | 5125m    | 0.581 | ug/l   |          |
| 72) Bromobenzene              | 10.782 | 156  | 5533     | 0.492 | ug/l   | 89       |
| 73) n-propylbenzene           | 10.901 | 120  | 4741     | 0.378 | ug/l   | 96       |
| 74) 2-Chlorotoluene           | 10.981 | 126  | 4681     | 0.409 | ug/l   | 91       |
| 75) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 14416    | 0.364 | ug/l   | 100      |
| 76) 4-Chlorotoluene           | 11.100 | 126  | 4613     | 0.385 | ug/l   | 94       |
| 77) tert-Butylbenzene         | 11.415 | 119  | 14519    | 0.386 | ug/l   | 100      |
| 78) 1,2,4-Trimethylbenzene    | 11.467 | 105  | 14642    | 0.366 | ug/l   | 99       |
| 79) sec-Butylbenzene          | 11.640 | 105  | 19181    | 0.367 | ug/l   | 98       |
| 80) Nitrobenzene              | 13.235 | 77   | 518m     | 2.094 | ug/l   |          |
| 81) p-Isopropyltoluene        | 11.788 | 119  | 13906    | 0.347 | ug/l   | 98       |
| 82) 1,3-Dichlorobenzene       | 11.743 | 146  | 11272    | 0.473 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene       | 11.837 | 146  | 10343    | 0.434 | ug/l   | 95       |
| 84) n-Butylbenzene            | 12.206 | 91   | 13833    | 0.367 | ug/l   | 97       |
| 85) 1,2-Dichlorobenzene       | 12.213 | 146  | 10783    | 0.480 | ug/l   | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.997 | 75   | 750      | 0.477 | ug/l   | 87       |
| 87) 1,2,4-Trichlorobenzene    | 13.843 | 180  | 5388     | 0.448 | ug/l   | 90       |
| 88) Hexachlorobutadiene       | 14.017 | 225  | 3441     | 0.458 | ug/l   | 93       |
| 89) Naphthalene               | 14.097 | 128  | 8499     | 0.434 | ug/l # | 95       |
| 90) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 5277     | 0.482 | ug/l   | 91       |

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

