Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU020819\
Data File : VU029383.D
Acq On : 08 Feb 2019 17:19
Operator : JC/SP
Sample : VU0208WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 09 04:02:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U020519DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Feb 08 10:52:46 2019
Response via : Initial Calibration

**Instrument :** MSVOA_U
**ClientSampleId :** VU0208WBS01

**Manual Integrations APPROVED**
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2/18/2019 12:15:50 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.74 | 96 | 53538 | 1.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 57) 4-Bromofluorobenzene | 10.31 | 95 | 20762 | 0.99 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 99.00% | | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 22644 | 1.06 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 106.00% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.21 | 85 | 35555 | 1.780 | ug/l | | 97 |
| 3) Chloromethane | 1.33 | 50 | 29742 | 1.629 | ug/l | | 97 |
| 4) Vinyl Chloride | 1.40 | 62 | 38233 | 1.786 | ug/l | | 100 |
| 5) Bromomethane | 1.63 | 94 | 27413 | 2.302 | ug/l | | 95 |
| 6) Chloroethane | 1.70 | 64 | 23517 | 1.881 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 1.88 | 101 | 60754 | 2.033 | ug/l | | 98 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 32979 | 2.090 | ug/l | | 90 |
| 9) 1,1-Dichloroethene | 2.28 | 96 | 31832 | 2.061 | ug/l | | 67 |
| 10) Iodomethane | 2.41 | 142 | 24219 | 1.316 | ug/l | # | 77 |
| 11) Allyl Chloride | 2.59 | 41 | 47219 | 1.823 | ug/l | | 88 |
| 12) Acrylonitrile | 2.94 | 53 | 13378 | 3.865 | ug/l | | 96 |
| 13) Acetone | 2.32 | 43 | 28472 | 8.534 | ug/l | # | 81 |
| 14) Carbon Disulfide | 2.48 | 76 | 103835 | 1.904 | ug/l | | 97 |
| 15) Methylene Chloride | 2.70 | 84 | 36375 | 1.942 | ug/l | # | 80 |
| 16) trans-1,2-Dichloroethene | 2.98 | 96 | 36118 | 2.091 | ug/l | # | 75 |
| 17) 1,1-Dichloroethane | 3.44 | 63 | 49508 | 1.809 | ug/l | | 94 |
| 18) 2-Butanone | 4.28 | 43 | 30018 | 8.051 | ug/l | | 88 |
| 19) Cyclohexane | 4.99 | 56 | 36654 | 1.444 | ug/l | # | 84 |
| 20) Methylcyclohexane | 6.41 | 83 | 50295 | 1.887 | ug/l | # | 84 |
| 21) 2,2-Dichloropropane | 4.22 | 77 | 47017 | 1.856 | ug/l | # | 91 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 34300 | 2.108 | ug/l | | 70 |
| 23) Diethyl Ether | 2.10 | 59 | 22430 | 1.809 | ug/l | | 88 |
| 24) tert-Butyl Alcohol | 2.84 | 59 | 25923 | 20.113 | ug/l | | 96 |
| 25) Methyl tert-Butyl Ether | 3.00 | 73 | 84299 | 1.938 | ug/l | # | 85 |
| 26) Bromochloromethane | 4.55 | 128 | 14305 | 1.990 | ug/l | | 69 |
| 27) Chloroform | 4.67 | 83 | 51982 | 1.953 | ug/l | | 99 |
| 28) 1,1,1-Trichloroethane | 4.91 | 97 | 47048 | 1.907 | ug/l | | 95 |
| 29) 1,1-Dichloropropene | 5.13 | 75 | 40941 | 1.912 | ug/l | | 92 |
| 30) Carbon Tetrachloride | 5.13 | 117 | 42862 | 1.919 | ug/l | | 97 |
| 31) Isopropyl Ether | 3.58 | 45 | 72744 | 1.761 | ug/l | | 88 |
| 32) Ethyl-t-butyl ether | 4.07 | 59 | 74770 | 1.807 | ug/l | # | 87 |
| 33) Tert-Amyl methyl ether | 5.58 | 73 | 69740 | 1.864 | ug/l | | 99 |
| 34) Propionitrile | 4.34 | 54 | 9569 | 9.763 | ug/l | # | 89 |
| 35) Benzene | 5.39 | 78 | 112365 | 1.897 | ug/l | | 98 |
| 36) 1,2-Dichloroethane | 5.41 | 62 | 32541 | 1.817 | ug/l | # | 87 |
| 37) Trichloroethene | 6.18 | 130 | 33693 | 1.983 | ug/l | | 91 |
| 38) 1,2-Dichloropropane | 6.43 | 63 | 27594 | 1.791 | ug/l | | 97 |
| 39) Methacrylonitrile | 4.55 | 41 | 7126 | 1.420 | ug/l | # | 81 |
| 40) Methyl acrylate | 4.43 | 55 | 10984 | 1.450 | ug/l | # | 84 |
| 41) Tetrahydrofuran | 4.66 | 42 | 7307 | 2.890 | ug/l | # | 69 |
| 42) 1-Chlorobutane | 5.06 | 56 | 49678 | 1.731 | ug/l | | 84 |

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| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) Dibromomethane | 6.56 | 93 | 15173 | 1.848 | ug/l | | 93 |
| 44) Bromodichloromethane | 6.76 | 83 | 38682 | 1.849 | ug/l | | 97 |
| 45) 4-Methyl-2-Pentanone | 7.46 | 43 | 78150 | 8.120 | ug/l | # | 88 |
| 46) t-1,4-Dichloro-2-butene | 10.51 | 75 | 16235m | 3.462 | ug/l | | |
| 47) Methyl methacrylate | 6.63 | 69 | 26860 | 3.718 | ug/l | # | 70 |
| 48) Ethyl methacrylate | 8.02 | 69 | 26996 | 1.742 | ug/l | | 77 |
| 49) Toluene | 7.63 | 92 | 72408 | 1.911 | ug/l | | 99 |
| 50) t-1,3-Dichloropropene | 7.88 | 75 | 36230 | 1.767 | ug/l | | 97 |
| 51) cis-1,3-Dichloropropene | 7.27 | 75 | 43394 | 1.781 | ug/l | # | 88 |
| 52) 1,1,2-Trichloroethane | 8.07 | 97 | 21868 | 2.012 | ug/l | | 93 |
| 53) 1,3-Dichloropropane | 8.24 | 76 | 35597 | 1.864 | ug/l | | 100 |
| 54) 2-Hexanone | 8.37 | 43 | 54262 | 8.043 | ug/l | | 86 |
| 55) Dibromochloromethane | 8.48 | 129 | 29304 | 1.897 | ug/l | | 99 |
| 56) 1,2-Dibromoethane | 8.59 | 107 | 21332 | 1.913 | ug/l | | 100 |
| 58) Tetrachloroethene | 8.23 | 164 | 34028 | 2.152 | ug/l | | 90 |
| 59) Chlorobenzene | 9.12 | 112 | 84591 | 1.981 | ug/l | | 99 |
| 60) 1,1,1,2-Tetrachloroethane | 9.21 | 131 | 31206 | 1.978 | ug/l | | 98 |
| 61) Pentachloroethane | 11.10 | 117 | 23133 | 1.892 | ug/l | | 88 |
| 62) Hexachloroethane | 12.14 | 117 | 24097 | 1.806 | ug/l | | 97 |
| 63) Ethyl Benzene | 9.25 | 91 | 141636 | 1.910 | ug/l | | 96 |
| 64) m/p-Xylenes | 9.37 | 106 | 113475 | 3.938 | ug/l | | 86 |
| 65) o-Xylene | 9.78 | 106 | 55859 | 1.975 | ug/l | | 85 |
| 66) Styrene | 9.79 | 104 | 91340 | 1.937 | ug/l | | 92 |
| 67) Bromoform | 9.95 | 173 | 18179 | 1.891 | ug/l | | 99 |
| 69) Isopropylbenzene | 10.16 | 105 | 146748 | 1.942 | ug/l | | 96 |
| 70) 1,1,2,2-Tetrachloroethane | 10.46 | 83 | 26372 | 1.893 | ug/l | | 97 |
| 71) 1,2,3-Trichloropropane | 10.49 | 75 | 17331m | 1.812 | ug/l | | |
| 72) Bromobenzene | 10.45 | 156 | 37103 | 2.026 | ug/l | | 83 |
| 73) n-propylbenzene | 10.59 | 120 | 42871 | 2.037 | ug/l | | 77 |
| 74) 2-Chlorotoluene | 10.66 | 126 | 36768 | 2.052 | ug/l | | 78 |
| 75) 1,3,5-Trimethylbenzene | 10.77 | 105 | 123909 | 1.902 | ug/l | | 95 |
| 76) 4-Chlorotoluene | 10.77 | 126 | 38061 | 2.046 | ug/l | | 71 |
| 77) tert-Butylbenzene | 11.10 | 119 | 127739 | 1.984 | ug/l | | 92 |
| 78) 1,2,4-Trimethylbenzene | 11.14 | 105 | 124281 | 1.884 | ug/l | | 94 |
| 79) sec-Butylbenzene | 11.32 | 105 | 163369 | 1.939 | ug/l | | 95 |
| 80) Nitrobenzene | 12.86 | 77 | 2968 | 4.782 | ug/l | # | 92 |
| 81) p-Isopropyltoluene | 11.47 | 119 | 140717 | 1.970 | ug/l | | 94 |
| 82) 1,3-Dichlorobenzene | 11.41 | 146 | 74474 | 2.073 | ug/l | | 96 |
| 83) 1,4-Dichlorobenzene | 11.50 | 146 | 72665 | 2.030 | ug/l | | 96 |
| 84) n-Butylbenzene | 11.89 | 91 | 123454 | 1.884 | ug/l | | 95 |
| 85) 1,2-Dichlorobenzene | 11.88 | 146 | 68089 | 2.004 | ug/l | | 97 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75 | 4202 | 1.616 | ug/l | # | 54 |
| 87) 1,2,4-Trichlorobenzene | 13.50 | 180 | 49443 | 2.072 | ug/l | | 97 |
| 88) Hexachlorobutadiene | 13.69 | 225 | 30342 | 2.195 | ug/l | | 98 |
| 89) Naphthalene | 13.74 | 128 | 87152 | 2.153 | ug/l | | 99 |
| 90) 1,2,3-Trichlorobenzene | 13.99 | 180 | 52203 | 2.394 | ug/l | | 96 |

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

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