Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041619\
Data File : VU031208.D
Acq On : 16 Apr 2019 12:12
Operator : JC/SP
Sample : VU0416WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0416WBS01

Manual Integrations APPROVED
MMDadoda
4/17/2019 9:15:16 AM

Quant Time: Apr 17 03:47:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U041519DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Apr 16 04:55:56 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.74 | 96 | 34811 | 1.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 57) 4-Bromofluorobenzene | 10.31 | 95 | 12506 | 0.98 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 98.00% | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 12463 | 0.98 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 98.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.20 | 85 | 29941 | 1.989 | ug/l | 98 |
| 3) Chloromethane | 1.32 | 50 | 31915 | 2.009 | ug/l | 95 |
| 4) Vinyl Chloride | 1.40 | 62 | 31193 | 2.010 | ug/l | 100 |
| 5) Bromomethane | 1.63 | 94 | 26198 | 2.881 | ug/l | 100 |
| 6) Chloroethane | 1.70 | 64 | 21267 | 1.985 | ug/l | 95 |
| 7) Trichlorofluoromethane | 1.89 | 101 | 46182 | 2.041 | ug/l | 99 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 23502 | 2.086 | ug/l | 99 |
| 9) 1,1-Dichloroethene | 2.29 | 96 | 23718 | 2.107 | ug/l | 98 |
| 10) Iodomethane | 2.41 | 142 | 19947 | 1.312 | ug/l | 94 |
| 11) Allyl Chloride | 2.59 | 41 | 45610 | 2.065 | ug/l | 99 |
| 12) Acrylonitrile | 2.94 | 53 | 14609 | 4.437 | ug/l | 96 |
| 13) Acetone | 2.32 | 43 | 28971 | 10.720 | ug/l | 96 |
| 14) Carbon Disulfide | 2.48 | 76 | 87330 | 2.101 | ug/l | 97 |
| 15) Methylene Chloride | 2.70 | 84 | 28092 | 1.936 | ug/l | 96 |
| 16) trans-1,2-Dichloroethene | 2.98 | 96 | 26064 | 2.098 | ug/l | 95 |
| 17) 1,1-Dichloroethane | 3.44 | 63 | 42833 | 2.177 | ug/l | 98 |
| 18) 2-Butanone | 4.28 | 43 | 31625 | 10.335 | ug/l | 100 |
| 19) Cyclohexane | 4.99 | 56 | 27965 | 2.020 | ug/l | 96 |
| 20) Methylcyclohexane | 6.41 | 83 | 29726 | 2.118 | ug/l | 99 |
| 21) 2,2-Dichloropropane | 4.22 | 77 | 31609 | 2.073 | ug/l | 98 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 21959 | 2.028 | ug/l | 97 |
| 23) Diethyl Ether | 2.10 | 59 | 21919 | 2.088 | ug/l | 97 |
| 24) tert-Butyl Alcohol | 2.84 | 59 | 22108 | 19.774 | ug/l # | 86 |
| 25) Methyl tert-Butyl Ether | 3.00 | 73 | 69031 | 2.104 | ug/l | 99 |
| 26) Bromochloromethane | 4.54 | 128 | 9826 | 1.990 | ug/l | 96 |
| 27) Chloroform | 4.67 | 83 | 39116 | 2.010 | ug/l | 96 |
| 28) 1,1,1-Trichloroethane | 4.91 | 97 | 32828 | 1.984 | ug/l | 99 |
| 29) 1,1-Dichloropropene | 5.13 | 75 | 28310 | 2.040 | ug/l | 98 |
| 30) Carbon Tetrachloride | 5.13 | 117 | 29820 | 2.040 | ug/l | 98 |
| 31) Isopropyl Ether | 3.57 | 45 | 57360 | 1.988 | ug/l | 98 |
| 32) Ethyl-t-butyl ether | 4.07 | 59 | 46732 | 1.910 | ug/l | 98 |
| 33) Tert-Amyl methyl ether | 5.58 | 73 | 42139 | 1.968 | ug/l | 96 |
| 34) Propionitrile | 4.34 | 54 | 8986 | 10.628 | ug/l # | 95 |
| 35) Benzene | 5.39 | 78 | 83318 | 2.018 | ug/l | 98 |
| 36) 1,2-Dichloroethane | 5.41 | 62 | 26714 | 2.033 | ug/l | 98 |
| 37) Trichloroethene | 6.18 | 130 | 22995 | 1.986 | ug/l | 94 |
| 38) 1,2-Dichloropropane | 6.43 | 63 | 22271 | 2.025 | ug/l | 100 |
| 39) Methacrylonitrile | 4.55 | 41 | 8064 | 2.118 | ug/l # | 91 |
| 40) Methyl acrylate | 4.43 | 55 | 10317 | 2.151 | ug/l # | 75 |
| 41) Tetrahydrofuran | 4.65 | 42 | 7666 | 3.942 | ug/l | 93 |
| 42) 1-Chlorobutane | 5.06 | 56 | 38468 | 1.947 | ug/l | 95 |

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Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VU0416WBS01

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Quant Time: Apr 17 03:47:13 2019
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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Apr 16 04:55:56 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 43) Dibromomethane | 6.56 | 93 | 11974 | 2.024 ug/l | 99 |
| 44) Bromodichloromethane | 6.76 | 83 | 29684 | 2.082 ug/l | 95 |
| 45) 4-Methyl-2-Pentanone | 7.46 | 43 | 72672 | 10.413 ug/l | 97 |
| 46) t-1,4-Dichloro-2-butene | 10.51 | 75 | 10440m | 3.924 ug/l | |
| 47) Methyl methacrylate | 6.62 | 69 | 20432 | 4.092 ug/l | 95 |
| 48) Ethyl methacrylate | 8.02 | 69 | 18550 | 2.095 ug/l | 97 |
| 49) Toluene | 7.63 | 92 | 47529 | 2.097 ug/l | 98 |
| 50) t-1,3-Dichloropropene | 7.88 | 75 | 25268 | 2.078 ug/l | 94 |
| 51) cis-1,3-Dichloropropene | 7.27 | 75 | 30260 | 2.105 ug/l | 96 |
| 52) 1,1,2-Trichloroethane | 8.06 | 97 | 16434 | 2.059 ug/l | 94 |
| 53) 1,3-Dichloropropane | 8.24 | 76 | 28087 | 2.072 ug/l | 100 |
| 54) 2-Hexanone | 8.36 | 43 | 47248 | 10.031 ug/l | 96 |
| 55) Dibromochloromethane | 8.47 | 129 | 18928 | 2.000 ug/l | 99 |
| 56) 1,2-Dibromoethane | 8.59 | 107 | 15981 | 2.154 ug/l | 95 |
| 58) Tetrachloroethene | 8.23 | 164 | 20002 | 2.032 ug/l | 95 |
| 59) Chlorobenzene | 9.12 | 112 | 52247 | 2.076 ug/l | 99 |
| 60) 1,1,1,2-Tetrachloroethane | 9.20 | 131 | 19746 | 2.093 ug/l | 100 |
| 61) Pentachloroethane | 11.10 | 117 | 15306 | 2.085 ug/l | 94 |
| 62) Hexachloroethane | 12.14 | 117 | 14438 | 2.035 ug/l | 93 |
| 63) Ethyl Benzene | 9.25 | 91 | 85873 | 2.138 ug/l | 97 |
| 64) m/p-Xylenes | 9.37 | 106 | 63885 | 4.178 ug/l | 98 |
| 65) o-Xylene | 9.77 | 106 | 29460 | 2.013 ug/l | 98 |
| 66) Styrene | 9.79 | 104 | 52065 | 2.064 ug/l | 99 |
| 67) Bromoform | 9.96 | 173 | 11658 | 2.135 ug/l | 94 |
| 69) Isopropylbenzene | 10.16 | 105 | 83981 | 2.141 ug/l | 98 |
| 70) 1,1,2,2-Tetrachloroethane | 10.45 | 83 | 21333 | 2.060 ug/l | 98 |
| 71) 1,2,3-Trichloropropane | 10.49 | 75 | 16433m | 2.195 ug/l | |
| 72) Bromobenzene | 10.45 | 156 | 22181 | 2.137 ug/l | 80 |
| 73) n-propylbenzene | 10.59 | 120 | 23091 | 2.204 ug/l | 92 |
| 74) 2-Chlorotoluene | 10.66 | 126 | 21498 | 2.225 ug/l | 93 |
| 75) 1,3,5-Trimethylbenzene | 10.77 | 105 | 69840 | 2.103 ug/l | 99 |
| 76) 4-Chlorotoluene | 10.77 | 126 | 20864 | 2.143 ug/l | 93 |
| 77) tert-Butylbenzene | 11.10 | 119 | 69188 | 2.130 ug/l | 99 |
| 78) 1,2,4-Trimethylbenzene | 11.14 | 105 | 71321 | 2.131 ug/l | 100 |
| 79) sec-Butylbenzene | 11.32 | 105 | 94780 | 2.168 ug/l | 99 |
| 80) Nitrobenzene | 12.87 | 77 | 2143m | 9.552 ug/l | |
| 81) p-Isopropyltoluene | 11.47 | 119 | 76562 | 2.181 ug/l | 98 |
| 82) 1,3-Dichlorobenzene | 11.41 | 146 | 47015 | 2.293 ug/l | 99 |
| 83) 1,4-Dichlorobenzene | 11.50 | 146 | 41680 | 2.099 ug/l | 98 |
| 84) n-Butylbenzene | 11.89 | 91 | 75022 | 2.211 ug/l | 96 |
| 85) 1,2-Dichlorobenzene | 11.88 | 146 | 41185 | 2.142 ug/l | 98 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75 | 3503 | 2.351 ug/l | 91 |
| 87) 1,2,4-Trichlorobenzene | 13.50 | 180 | 22963 | 1.954 ug/l | 95 |
| 88) Hexachlorobutadiene | 13.69 | 225 | 18674 | 2.379 ug/l | 99 |
| 89) Naphthalene | 13.74 | 128 | 37410 | 1.985 ug/l | 98 |
| 90) 1,2,3-Trichlorobenzene | 13.98 | 180 | 26580 | 2.259 ug/l | 95 |

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

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