Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU020519\
Data File : VU029351.D
Acq On : 05 Feb 2019 17:22
Operator : JC/SP
Sample : VU0205WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VU0205WBS01

**Manual Integrations APPROVED**
sam
2/8/2019 2:27:03 PM

Quant Time: Feb 08 11:27:03 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

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.74 | 96 | 50101 | 1.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 57) 4-Bromofluorobenzene | 10.31 | 95 | 19874 | 1.02 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 102.00% | | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 20953 | 1.04 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 104.00% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.21 | 85 | 37651 | 2.014 | ug/l | | 99 |
| 3) Chloromethane | 1.33 | 50 | 33944 | 1.987 | ug/l | | 98 |
| 4) Vinyl Chloride | 1.40 | 62 | 39989 | 1.996 | ug/l | | 96 |
| 5) Bromomethane | 1.63 | 94 | 26135 | 2.346 | ug/l | | 96 |
| 6) Chloroethane | 1.70 | 64 | 23121 | 1.976 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 1.88 | 101 | 58554 | 2.093 | ug/l | | 94 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 31943 | 2.163 | ug/l | | 89 |
| 9) 1,1-Dichloroethene | 2.28 | 96 | 30928 | 2.140 | ug/l | | 78 |
| 10) Iodomethane | 2.41 | 142 | 31938 | 1.732 | ug/l | # | 77 |
| 11) Allyl Chloride | 2.59 | 41 | 48791 | 2.013 | ug/l | | 96 |
| 12) Acrylonitrile | 2.94 | 53 | 12991 | 4.010 | ug/l | | 96 |
| 13) Acetone | 2.32 | 43 | 28806 | 9.227 | ug/l | # | 89 |
| 14) Carbon Disulfide | 2.48 | 76 | 105507 | 2.068 | ug/l | | 99 |
| 15) Methylene Chloride | 2.70 | 84 | 34834 | 1.988 | ug/l | # | 79 |
| 16) trans-1,2-Dichloroethene | 2.98 | 96 | 34374 | 2.127 | ug/l | # | 79 |
| 17) 1,1-Dichloroethane | 3.44 | 63 | 50152 | 1.958 | ug/l | | 97 |
| 18) 2-Butanone | 4.28 | 43 | 33558 | 9.617 | ug/l | | 97 |
| 19) Cyclohexane | 4.99 | 56 | 46223m | 1.946 | ug/l | | |
| 20) Methylcyclohexane | 6.41 | 83 | 50674 | 2.032 | ug/l | | 87 |
| 21) 2,2-Dichloropropane | 4.22 | 77 | 47777 | 2.015 | ug/l | | 92 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 31573 | 2.074 | ug/l | | 80 |
| 23) Diethyl Ether | 2.10 | 59 | 23893 | 2.059 | ug/l | | 89 |
| 24) tert-Butyl Alcohol | 2.84 | 59 | 25067 | 20.783 | ug/l | # | 93 |
| 25) Methyl tert-Butyl Ether | 3.00 | 73 | 86663 | 2.130 | ug/l | # | 87 |
| 26) Bromochloromethane | 4.55 | 128 | 14178 | 2.108 | ug/l | | 73 |
| 27) Chloroform | 4.67 | 83 | 51682 | 2.075 | ug/l | | 99 |
| 28) 1,1,1-Trichloroethane | 4.91 | 97 | 47750 | 2.068 | ug/l | | 95 |
| 29) 1,1-Dichloropropene | 5.13 | 75 | 40861 | 2.039 | ug/l | | 93 |
| 30) Carbon Tetrachloride | 5.13 | 117 | 43431 | 2.078 | ug/l | | 98 |
| 31) Isopropyl Ether | 3.58 | 45 | 76766 | 1.986 | ug/l | | 92 |
| 32) Ethyl-t-butyl ether | 4.07 | 59 | 79723 | 2.059 | ug/l | | 88 |
| 33) Tert-Amyl methyl ether | 5.58 | 73 | 73822 | 2.108 | ug/l | | 100 |
| 34) Propionitrile | 4.34 | 54 | 9909 | 10.804 | ug/l | # | 78 |
| 35) Benzene | 5.39 | 78 | 113226 | 2.043 | ug/l | | 98 |
| 36) 1,2-Dichloroethane | 5.40 | 62 | 34318 | 2.047 | ug/l | # | 88 |
| 37) Trichloroethene | 6.18 | 130 | 33820 | 2.126 | ug/l | | 87 |
| 38) 1,2-Dichloropropane | 6.43 | 63 | 29167 | 2.023 | ug/l | | 98 |
| 39) Methacrylonitrile | 4.56 | 41 | 8741 | 1.861 | ug/l | # | 88 |
| 40) Methyl acrylate | 4.43 | 55 | 13217 | 1.864 | ug/l | # | 87 |
| 41) Tetrahydrofuran | 4.66 | 42 | 9979 | 4.218 | ug/l | # | 87 |
| 42) 1-Chlorobutane | 5.06 | 56 | 52135 | 1.942 | ug/l | | 89 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU020519\
Data File : VU029351.D
Acq On : 05 Feb 2019 17:22
Operator : JC/SP
Sample : VU0205WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VU0205WBS01

**Manual Integrations APPROVED**
sam
2/8/2019 2:27:03 PM

Quant Time: Feb 08 11:27:03 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

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) Dibromomethane | 6.56 | 93 | 15825 | 2.060 | ug/l | | 90 |
| 44) Bromodichloromethane | 6.76 | 83 | 40082 | 2.047 | ug/l | | 98 |
| 45) 4-Methyl-2-Pentanone | 7.46 | 43 | 90156 | 10.010 | ug/l | # | 91 |
| 46) t-1,4-Dichloro-2-butene | 10.52 | 75 | 16804m | 3.830 | ug/l | | |
| 47) Methyl methacrylate | 6.63 | 69 | 28050 | 4.149 | ug/l | # | 78 |
| 48) Ethyl methacrylate | 8.02 | 69 | 29993 | 2.068 | ug/l | | 83 |
| 49) Toluene | 7.63 | 92 | 71791 | 2.024 | ug/l | | 99 |
| 50) t-1,3-Dichloropropene | 7.88 | 75 | 38118 | 1.986 | ug/l | | 94 |
| 51) cis-1,3-Dichloropropene | 7.27 | 75 | 46384 | 2.035 | ug/l | | 89 |
| 52) 1,1,2-Trichloroethane | 8.07 | 97 | 21586 | 2.122 | ug/l | | 95 |
| 53) 1,3-Dichloropropane | 8.24 | 76 | 36528 | 2.044 | ug/l | | 100 |
| 54) 2-Hexanone | 8.37 | 43 | 60665 | 9.609 | ug/l | | 85 |
| 55) Dibromochloromethane | 8.48 | 129 | 30674 | 2.122 | ug/l | | 99 |
| 56) 1,2-Dibromoethane | 8.58 | 107 | 21833 | 2.092 | ug/l | | 97 |
| 58) Tetrachloroethene | 8.22 | 164 | 31623 | 2.137 | ug/l | | 93 |
| 59) Chlorobenzene | 9.12 | 112 | 81750 | 2.046 | ug/l | | 97 |
| 60) 1,1,1,2-Tetrachloroethane | 9.21 | 131 | 30610 | 2.073 | ug/l | | 94 |
| 61) Pentachloroethane | 11.10 | 117 | 23634 | 2.066 | ug/l | | 89 |
| 62) Hexachloroethane | 12.14 | 117 | 25616 | 2.051 | ug/l | | 100 |
| 63) Ethyl Benzene | 9.25 | 91 | 144667 | 2.085 | ug/l | | 97 |
| 64) m/p-Xylenes | 9.37 | 106 | 110378 | 4.094 | ug/l | | 89 |
| 65) o-Xylene | 9.78 | 106 | 53664 | 2.028 | ug/l | | 89 |
| 66) Styrene | 9.79 | 104 | 90784 | 2.058 | ug/l | | 94 |
| 67) Bromoform | 9.96 | 173 | 18675 | 2.076 | ug/l | | 99 |
| 69) Isopropylbenzene | 10.16 | 105 | 146134 | 2.067 | ug/l | | 95 |
| 70) 1,1,2,2-Tetrachloroethane | 10.46 | 83 | 26697 | 2.048 | ug/l | | 95 |
| 71) 1,2,3-Trichloropropane | 10.49 | 75 | 19845m | 2.217 | ug/l | | |
| 72) Bromobenzene | 10.45 | 156 | 35800 | 2.089 | ug/l | | 86 |
| 73) n-propylbenzene | 10.58 | 120 | 40772 | 2.070 | ug/l | | 78 |
| 74) 2-Chlorotoluene | 10.66 | 126 | 35684 | 2.128 | ug/l | | 76 |
| 75) 1,3,5-Trimethylbenzene | 10.77 | 105 | 122678 | 2.012 | ug/l | | 95 |
| 76) 4-Chlorotoluene | 10.77 | 126 | 34261 | 1.968 | ug/l | | 86 |
| 77) tert-Butylbenzene | 11.10 | 119 | 124640 | 2.068 | ug/l | | 92 |
| 78) 1,2,4-Trimethylbenzene | 11.15 | 105 | 126415 | 2.048 | ug/l | | 95 |
| 79) sec-Butylbenzene | 11.32 | 105 | 161693 | 2.051 | ug/l | | 96 |
| 80) Nitrobenzene | 12.87 | 77 | 3333 | 5.738 | ug/l | # | 98 |
| 81) p-Isopropyltoluene | 11.47 | 119 | 134529 | 2.013 | ug/l | | 94 |
| 82) 1,3-Dichlorobenzene | 11.41 | 146 | 70272 | 2.090 | ug/l | | 97 |
| 83) 1,4-Dichlorobenzene | 11.51 | 146 | 68991 | 2.060 | ug/l | | 97 |
| 84) n-Butylbenzene | 11.89 | 91 | 121255 | 1.977 | ug/l | | 97 |
| 85) 1,2-Dichlorobenzene | 11.88 | 146 | 66240 | 2.083 | ug/l | | 98 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75 | 4762 | 1.957 | ug/l | # | 60 |
| 87) 1,2,4-Trichlorobenzene | 13.50 | 180 | 45419 | 2.034 | ug/l | | 99 |
| 88) Hexachlorobutadiene | 13.69 | 225 | 27588 | 2.133 | ug/l | | 98 |
| 89) Naphthalene | 13.74 | 128 | 81083 | 2.141 | ug/l | | 98 |
| 90) 1,2,3-Trichlorobenzene | 13.99 | 180 | 42634 | 2.089 | ug/l | | 97 |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU020519\
Data File : VU029351.D
Acq On : 05 Feb 2019 17:22
Operator : JC/SP
Sample : VU0205WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 08 11:27:03 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 :**
VU0205WBS01

**Manual Integrations APPROVED**
sam
2/8/2019 2:27:03 PM