

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU101018\  
 Data File : VU027530.D  
 Acq On : 09 Oct 2018 18:48  
 Operator : MD/SY  
 Sample : VU1010WBSD01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1010WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 10/11/2018 9:01:30 AM

Quant Time: Oct 10 06:48:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 02:04:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 99090    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 181445   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 165309   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 80917    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 86169    | 52.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.16% |      |
| 35) Dibromofluoromethane    | 4.89   | 113 | 58801    | 47.29 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.58%  |      |
| 50) Toluene-d8              | 7.57   | 98  | 234792   | 50.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.90% |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 83067    | 48.03 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.06%  |      |

| Target Compounds              |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.21 | 85  | 29930  | 20.951  | ug/l | 98     |
| 3) Chloromethane              | 1.33 | 50  | 37604  | 19.442  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 36701  | 20.186  | ug/l | 98     |
| 5) Bromomethane               | 1.62 | 94  | 19612  | 24.929  | ug/l | 97     |
| 6) Chloroethane               | 1.70 | 64  | 22553  | 20.643  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.88 | 101 | 40533  | 21.972  | ug/l | 97     |
| 8) Diethyl Ether              | 2.11 | 74  | 18027  | 21.214  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.29 | 101 | 23309  | 21.757  | ug/l | 100    |
| 10) Methyl Iodide             | 2.41 | 142 | 12214  | 19.187  | ug/l | 100    |
| 11) Tert butyl alcohol        | 2.83 | 59  | 38333  | 110.014 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.28 | 96  | 21808  | 20.835  | ug/l | 95     |
| 13) Acrolein                  | 2.20 | 56  | 15167  | 51.875  | ug/l | 100    |
| 14) Allyl chloride            | 2.59 | 41  | 48733  | 19.607  | ug/l | 98     |
| 15) Acrylonitrile             | 2.94 | 53  | 97042  | 107.005 | ug/l | 99     |
| 16) Acetone                   | 2.32 | 43  | 101570 | 103.909 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.48 | 76  | 63269  | 16.760  | ug/l | 99     |
| 18) Methyl Acetate            | 2.62 | 43  | 55011  | 24.670  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.00 | 73  | 83368  | 19.878  | ug/l | 99     |
| 20) Methylene Chloride        | 2.70 | 84  | 26537  | 19.490  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 2.98 | 96  | 22167  | 18.864  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.58 | 45  | 105051 | 20.794  | ug/l | 94     |
| 23) Vinyl Acetate             | 3.53 | 43  | 437309 | 99.122  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.45 | 63  | 53270  | 20.512  | ug/l | 99     |
| 25) 2-Butanone                | 4.27 | 43  | 144212 | 108.189 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.23 | 77  | 41761  | 19.569  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.23 | 96  | 25041  | 18.634  | ug/l | 94     |
| 28) Bromochloromethane        | 4.55 | 49  | 31565  | 25.192  | ug/l | 96     |
| 29) Tetrahydrofuran           | 4.64 | 42  | 91885  | 109.380 | ug/l | 98     |
| 30) Chloroform                | 4.68 | 83  | 48669  | 21.093  | ug/l | 100    |
| 31) Cyclohexane               | 5.00 | 56  | 49132  | 18.364  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 4.92 | 97  | 40200  | 20.686  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.14 | 75  | 34729  | 17.628  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.39 | 43  | 51598  | 20.265  | ug/l | 97     |
| 38) Carbon Tetrachloride      | 5.14 | 117 | 33142  | 18.623  | ug/l | 96     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 02:04:34 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 6.42  | 83   | 39271    | 17.053  | ug/l   | 98       |
| 40) Benzene                    | 5.39  | 78   | 111209   | 19.379  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.55  | 41   | 28526    | 19.822  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 5.41  | 62   | 43879    | 20.599  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 5.55  | 43   | 80830    | 20.440  | ug/l   | 100      |
| 44) Trichloroethene            | 6.19  | 130  | 23924    | 18.696  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 6.44  | 63   | 33610    | 20.306  | ug/l   | 97       |
| 46) Dibromomethane             | 6.56  | 93   | 19125    | 20.458  | ug/l   | 100      |
| 47) Bromodichloromethane       | 6.76  | 83   | 38844    | 20.025  | ug/l   | 100      |
| 48) Methyl methacrylate        | 6.63  | 41   | 39299    | 19.984  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.62  | 88   | 15635    | 462.097 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 269444   | 104.857 | ug/l   | 99       |
| 52) Toluene                    | 7.64  | 92   | 65668    | 19.333  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 7.88  | 75   | 42872    | 18.850  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 46646    | 19.078  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 27298    | 20.270  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 8.02  | 69   | 42455    | 17.986  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 8.24  | 76   | 51429    | 19.672  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.13  | 63   | 129811   | 96.870  | ug/l   | 100      |
| 59) 2-Hexanone                 | 8.37  | 43   | 206539   | 103.615 | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.48  | 129  | 26917    | 19.928  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 8.59  | 107  | 27593    | 19.271  | ug/l   | 97       |
| 64) Tetrachloroethene          | 8.23  | 164  | 19671    | 19.115  | ug/l   | 98       |
| 65) Chlorobenzene              | 9.12  | 112  | 67686    | 19.452  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 24738    | 20.594  | ug/l   | 98       |
| 67) Ethyl Benzene              | 9.25  | 91   | 116432   | 18.886  | ug/l   | 98       |
| 68) m/p-Xylenes                | 9.38  | 106  | 87574    | 38.835  | ug/l   | 99       |
| 69) o-Xylene                   | 9.78  | 106  | 42640    | 19.898  | ug/l   | 97       |
| 70) Styrene                    | 9.79  | 104  | 69395    | 18.826  | ug/l   | 99       |
| 71) Bromoform                  | 9.96  | 173  | 19183    | 19.849  | ug/l # | 98       |
| 73) Isopropylbenzene           | 10.17 | 105  | 114160   | 19.425  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.02 | 43   | 65200    | 19.379  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 47847    | 20.734  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 10.49 | 75   | 43046m   | 20.522  | ug/l   |          |
| 77) Bromobenzene               | 10.46 | 156  | 26907    | 19.700  | ug/l   | 98       |
| 78) n-propylbenzene            | 10.59 | 91   | 134611   | 19.062  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 83551    | 19.595  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 95062    | 19.868  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75   | 13447m   | 16.778  | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.77 | 91   | 93643    | 19.353  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.10 | 119  | 90082    | 19.475  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 96910    | 19.828  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.32 | 105  | 112143   | 19.242  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 96906    | 19.420  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146  | 48836    | 18.883  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 49877    | 18.873  | ug/l   | 97       |
| 89) n-Butylbenzene             | 11.89 | 91   | 81749    | 16.786  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.15 | 117  | 18241    | 19.393  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 49243    | 19.561  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 10623    | 20.771  | ug/l   | 97       |

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ALS Vial : 6 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Tue Oct 02 02:04:34 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.50 | 180  | 28968    | 17.784 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.69 | 225  | 15760    | 19.150 | ug/l  | 98       |
| 95) Naphthalene            | 13.75 | 128  | 102418   | 17.846 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 32208    | 18.979 | ug/l  | 99       |

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

