

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU073018\  
 Data File : VU025713.D  
 Acq On : 30 Jul 2018 10:20  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jul 30 18:29:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 27 13:11:52 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 185352   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 271324   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 260787   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 169713   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 136367   | 47.22 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.44%  |      |
| 35) Dibromofluoromethane    | 4.89   | 113 | 114803   | 48.65 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.30%  |      |
| 50) Toluene-d8              | 7.57   | 98  | 413827   | 50.11 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.22% |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 160238   | 49.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.98%  |      |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 143975   | 51.39  | ug/l  | 99     |
| 3) Chloromethane              | 1.33 | 50   | 120328   | 44.94  | ug/l  | 98     |
| 4) Vinyl Chloride             | 1.40 | 62   | 117749   | 46.73  | ug/l  | 99     |
| 5) Bromomethane               | 1.62 | 94   | 62042    | 50.41  | ug/l  | 97     |
| 6) Chloroethane               | 1.70 | 64   | 68729    | 46.65  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 1.89 | 101  | 175065   | 48.05  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.10 | 74   | 61360    | 46.55  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.29 | 101  | 99335    | 47.11  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.41 | 142  | 85720    | 44.69  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 2.82 | 59   | 122828   | 194.26 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.28 | 96   | 90372    | 45.41  | ug/l  | 95     |
| 13) Acrolein                  | 2.19 | 56   | 44773    | 195.08 | ug/l  | 100    |
| 14) Allyl chloride            | 2.59 | 41   | 161279   | 45.09  | ug/l  | 98     |
| 15) Acrylonitrile             | 2.93 | 53   | 270534   | 214.30 | ug/l  | 98     |
| 16) Acetone                   | 2.32 | 43   | 321300   | 228.19 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.48 | 76   | 299921   | 46.57  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.62 | 43   | 161429   | 47.63  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.00 | 73   | 345071   | 47.85  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.70 | 84   | 110839   | 44.42  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 2.99 | 96   | 109232   | 47.48  | ug/l  | 98     |
| 22) Diisopropyl ether         | 3.57 | 45   | 336530   | 47.75  | ug/l  | 95     |
| 23) Vinyl Acetate             | 3.53 | 43   | 1428564  | 232.59 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.45 | 63   | 199475   | 47.15  | ug/l  | 99     |
| 25) 2-Butanone                | 4.26 | 43   | 422603   | 220.49 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 4.23 | 77   | 191344   | 49.76  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.23 | 96   | 120688   | 46.53  | ug/l  | 99     |
| 28) Bromochloromethane        | 4.55 | 49   | 92831    | 49.08  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 4.64 | 42   | 245638   | 213.91 | ug/l  | 100    |
| 30) Chloroform                | 4.68 | 83   | 208096   | 46.60  | ug/l  | 99     |
| 31) Cyclohexane               | 5.00 | 56   | 176409   | 47.88  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 4.92 | 97   | 193360   | 48.09  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.14 | 75   | 160362   | 50.57  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.38 | 43   | 147335   | 44.81  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 5.14 | 117  | 176485   | 49.14  | ug/l  | 99     |

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 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jul 30 18:29:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 27 13:11:52 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 6.42  | 83   | 185579   | 51.08  | ug/l   | 98       |
| 40) Benzene                    | 5.39  | 78   | 443826   | 47.88  | ug/l   | 97       |
| 41) Methacrylonitrile          | 4.54  | 41   | 83342    | 45.64  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 5.41  | 62   | 168257   | 47.14  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 5.55  | 43   | 247685   | 45.59  | ug/l   | 99       |
| 44) Trichloroethene            | 6.19  | 130  | 125058   | 48.45  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 6.44  | 63   | 116795   | 48.32  | ug/l   | 97       |
| 46) Dibromomethane             | 6.56  | 93   | 80402    | 45.90  | ug/l   | 96       |
| 47) Bromodichloromethane       | 6.76  | 83   | 165427   | 49.51  | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.62  | 41   | 126848   | 47.64  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.61  | 88   | 54569    | 842.12 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 763301   | 224.40 | ug/l   | 100      |
| 52) Toluene                    | 7.64  | 92   | 285445   | 49.57  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 7.88  | 75   | 190560   | 50.80  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 195440   | 50.72  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 115041   | 48.07  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 8.02  | 69   | 165613   | 48.44  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 8.25  | 76   | 194789   | 48.40  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.13  | 63   | 336464   | 218.24 | ug/l   | 99       |
| 59) 2-Hexanone                 | 8.36  | 43   | 607334   | 227.78 | ug/l   | 97       |
| 60) Dibromochloromethane       | 8.48  | 129  | 139964   | 49.60  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 8.59  | 107  | 126555   | 47.55  | ug/l   | 99       |
| 64) Tetrachloroethene          | 8.23  | 164  | 114570   | 49.91  | ug/l   | 98       |
| 65) Chlorobenzene              | 9.12  | 112  | 330834   | 49.20  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 122611   | 50.41  | ug/l   | 98       |
| 67) Ethyl Benzene              | 9.25  | 91   | 564269   | 50.66  | ug/l   | 99       |
| 68) m/p-Xylenes                | 9.38  | 106  | 444966   | 104.06 | ug/l   | 98       |
| 69) o-Xylene                   | 9.78  | 106  | 212023   | 50.74  | ug/l   | 98       |
| 70) Styrene                    | 9.80  | 104  | 350040   | 51.86  | ug/l   | 99       |
| 71) Bromoform                  | 9.96  | 173  | 108979   | 51.67  | ug/l # | 100      |
| 73) Isopropylbenzene           | 10.17 | 105  | 582733   | 50.31  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.01 | 43   | 226360   | 47.87  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 179624   | 44.84  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 10.50 | 75   | 153729m  | 41.11  | ug/l   |          |
| 77) Bromobenzene               | 10.45 | 156  | 156201   | 48.89  | ug/l   | 98       |
| 78) n-propylbenzene            | 10.59 | 91   | 689296   | 50.98  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 398020   | 50.26  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 504722   | 51.31  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 10.50 | 75   | 218075   | 146.24 | ug/l # | 100      |
| 82) 4-Chlorotoluene            | 10.77 | 91   | 479212   | 51.34  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.10 | 119  | 497097   | 50.86  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 517202   | 51.88  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.33 | 105  | 614686   | 51.51  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 556867   | 52.11  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146  | 293907   | 49.56  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 298728   | 48.32  | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.89 | 91   | 519171   | 52.65  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.15 | 117  | 96100    | 50.58  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 287567   | 49.47  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 42904    | 45.18  | ug/l   | 97       |

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Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

Quant Time: Jul 30 18:29:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 27 13:11:52 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.51 | 180  | 210004   | 53.53 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.70 | 225  | 107109   | 51.79 | ug/l  | 98       |
| 95) Naphthalene            | 13.74 | 128  | 575041   | 45.74 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 203051   | 51.88 | ug/l  | 99       |

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

