

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031919\  
 Data File : VX008226.D  
 Acq On : 20 Mar 2019 06:56  
 Operator : JC/SP  
 Sample : K1882-09MS  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPS1-TT-MW304D-20190312MS

Manual Integrations  
 APPROVED

MMDadoda  
 3/20/2019 10:27:43 AM

Quant Time: Mar 20 09:17:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X031919W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 20 06:51:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 268240   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 455444   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 403741   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 184950   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 203838   | 50.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.92% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 152103   | 49.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.78%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 555082   | 48.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.04%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 194565   | 48.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.76%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 165702   | 50.952  | ug/l   | 98     |
| 3) Chloromethane              | 1.33 | 50   | 199463   | 48.879  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.41 | 62   | 204468   | 50.254  | ug/l   | 100    |
| 5) Bromomethane               | 1.64 | 94   | 171401   | 49.454  | ug/l   | 100    |
| 6) Chloroethane               | 1.72 | 64   | 127831   | 50.109  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 245506   | 47.281  | ug/l   | 96     |
| 8) Diethyl Ether              | 2.19 | 74   | 150609   | 56.376  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 160242   | 46.481  | ug/l   | 91     |
| 10) Methyl Iodide             | 2.51 | 142  | 247820   | 56.456  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 3.06 | 59   | 236551   | 273.518 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 171957   | 52.833  | ug/l   | 90     |
| 13) Acrolein                  | 2.29 | 56   | 132130   | 215.537 | ug/l   | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 367527   | 51.874  | ug/l   | 93     |
| 15) Acrylonitrile             | 3.15 | 53   | 637284   | 278.590 | ug/l   | 99     |
| 16) Acetone                   | 2.45 | 43   | 559371   | 244.128 | ug/l   | 97     |
| 17) Carbon Disulfide          | 2.57 | 76   | 520387   | 48.997  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.78 | 43   | 250297   | 47.185  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 652047   | 55.408  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.86 | 84   | 202651   | 53.039  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 183261   | 52.121  | ug/l   | 92     |
| 22) Diisopropyl ether         | 3.86 | 45   | 763909   | 55.052  | ug/l   | 93     |
| 23) Vinyl Acetate             | 3.82 | 43   | 2623107  | 220.490 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 384448   | 53.868  | ug/l   | 99     |
| 25) 2-Butanone                | 4.68 | 43   | 918032   | 271.424 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 190930   | 35.513  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 215276   | 53.708  | ug/l   | 94     |
| 28) Bromochloromethane        | 5.02 | 49   | 160058   | 49.945  | ug/l # | 82     |
| 29) Tetrahydrofuran           | 5.13 | 42   | 607867   | 287.493 | ug/l   | 97     |
| 30) Chloroform                | 5.21 | 83   | 363617   | 54.467  | ug/l   | 99     |
| 31) Cyclohexane               | 5.58 | 56   | 309285   | 46.150  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 295982   | 53.298  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 260646   | 49.155  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.84 | 43   | 287791   | 45.913  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 237784   | 50.329  | ug/l   | 99     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Mar 20 06:51:58 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 269160   | 42.181   | ug/l   | 95       |
| 40) Benzene                    | 6.15  | 78   | 830804   | 52.936   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 196427   | 55.866   | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 306632   | 53.333   | ug/l   | 96       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 493342   | 49.102   | ug/l   | 97       |
| 44) Trichloroethene            | 7.21  | 130  | 196946   | 51.322   | ug/l   | 89       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 232885   | 53.007   | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 141679   | 53.261   | ug/l   | 87       |
| 47) Bromodichloromethane       | 7.90  | 83   | 276132   | 54.468   | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 296081   | 55.423   | ug/l   | 93       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 101356   | 1075.136 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1813083  | 279.132  | ug/l   | 98       |
| 52) Toluene                    | 8.79  | 92   | 483118   | 51.887   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 293313   | 46.307   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 316582   | 50.318   | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 208479   | 55.418   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 343015   | 51.962   | ug/l # | 92       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 363617   | 54.639   | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 1374894  | 274.941  | ug/l   | 96       |
| 60) Dibromochloromethane       | 9.58  | 129  | 204904   | 56.676   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 215127   | 54.767   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 180282   | 49.494   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 505170   | 50.850   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 188697   | 54.478   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 878119   | 50.160   | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.36 | 106  | 640394   | 99.582   | ug/l   | 93       |
| 69) o-Xylene                   | 10.70 | 106  | 320027   | 51.214   | ug/l   | 93       |
| 70) Stvrene                    | 10.71 | 104  | 533429   | 52.526   | ug/l   | 96       |
| 71) Bromoform                  | 10.85 | 173  | 148485   | 49.764   | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 813518   | 49.347   | ug/l   | 98       |
| 74) N-amyl acetate             | 10.90 | 43   | 375006   | 43.417   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 315217   | 53.324   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 272619m  | 52.407   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 209428   | 52.542   | ug/l   | 86       |
| 78) n-propylbenzene            | 11.36 | 91   | 930957   | 48.621   | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 575029   | 50.036   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 675131   | 49.570   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 90290    | 44.413   | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 668959   | 50.022   | ug/l   | 95       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 634281   | 48.779   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 694683   | 50.312   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 764388   | 47.469   | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 669578   | 48.037   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 358752   | 50.363   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 357438   | 48.511   | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 595568   | 45.524   | ug/l   | 97       |
| 90) Hexachloroethane           | 12.60 | 117  | 117977   | 49.698   | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 365049   | 50.825   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 70082    | 53.377   | ug/l   | 80       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 234776   | 49.625   | ug/l   | 99       |

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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.78 | 225  | 102808   | 44.557 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 820648   | 54.959 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 241446   | 51.866 | ug/l  | 98       |

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

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