

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011419\  
 Data File : VX007039.D  
 Acq On : 14 Jan 2019 15:09  
 Operator : JC/SP  
 Sample : K1133-06MS  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WP022MW359-190109MS

Manual Integrations  
 APPROVED

MMDadoda  
 1/15/2019 11:13:26 AM

Quant Time: Jan 15 00:21:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 505624   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 759495   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 716025   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 370239   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 269325   | 50.97 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.94% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 244293   | 50.23 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.46% |      |
| 50) Toluene-d8            | 8.71   | 98  | 904829   | 50.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.64% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 328614   | 52.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.90% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 218287  | 52.572  | ug/l | 98     |
| 3) Chloromethane              | 1.33 | 50  | 247666  | 51.238  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.41 | 62  | 515315  | 99.107  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 259461  | 46.706  | ug/l | 97     |
| 6) Chloroethane               | 1.72 | 64  | 170568  | 46.981  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 409708  | 48.767  | ug/l | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 161899  | 48.438  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 237413  | 47.201  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 388872  | 57.315  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.07 | 59  | 297361  | 238.555 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 224285  | 48.264  | ug/l | 95     |
| 13) Acrolein                  | 2.29 | 56  | 128141  | 238.502 | ug/l | 98     |
| 14) Allyl chloride            | 2.73 | 41  | 398503  | 50.037  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 731640  | 255.681 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 613637  | 234.899 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 558562  | 46.686  | ug/l | 100    |
| 18) Methyl Acetate            | 2.78 | 43  | 382339  | 50.539  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 813299  | 50.423  | ug/l | 99     |
| 20) Methylene Chloride        | 2.86 | 84  | 261622  | 52.684  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 249239  | 48.128  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.87 | 45  | 743866  | 49.682  | ug/l | 95     |
| 23) Vinyl Acetate             | 3.82 | 43  | 3156778 | 250.008 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 427657  | 51.081  | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 941769  | 251.953 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 297778  | 46.254  | ug/l | 95     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 463562  | 81.153  | ug/l | 98     |
| 28) Bromochloromethane        | 5.02 | 49  | 178771  | 48.737  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 614817  | 253.099 | ug/l | 97     |
| 30) Chloroform                | 5.21 | 83  | 437825  | 49.948  | ug/l | 97     |
| 31) Cyclohexane               | 5.58 | 56  | 359602  | 48.259  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 372120  | 50.085  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 314620  | 47.647  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 354189  | 50.032  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 323397  | 48.678  | ug/l | 95     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 384029   | 45.620  | ug/l  | 96       |
| 40) Benzene                    | 6.15  | 78   | 1033132  | 51.276  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.06  | 41   | 195360   | 47.904  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 342047   | 49.127  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 565355   | 50.630  | ug/l  | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 284279   | 47.084  | ug/l  | 95       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 249774   | 49.310  | ug/l  | 94       |
| 46) Dibromomethane             | 7.66  | 93   | 178720   | 50.203  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 313643   | 51.760  | ug/l  | 96       |
| 48) Methyl methacrylate        | 7.77  | 41   | 293215   | 51.132  | ug/l  | 98       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 115993   | 884.747 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1920471  | 267.614 | ug/l  | 99       |
| 52) Toluene                    | 8.79  | 92   | 640999   | 49.498  | ug/l  | 97       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 348964   | 51.935  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 373698   | 50.361  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 271609   | 52.400  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 404228   | 53.419  | ug/l  | 96       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 426022   | 50.168  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 1441830  | 263.650 | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 277889   | 55.211  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 291173   | 51.026  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 279027   | 45.011  | ug/l  | 95       |
| 65) Chlorobenzene              | 10.14 | 112  | 2722026  | 174.300 | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 266565   | 50.740  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 1226419  | 47.570  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 978754   | 96.357  | ug/l  | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 481397   | 48.596  | ug/l  | 98       |
| 70) Styrene                    | 10.71 | 104  | 783860   | 49.962  | ug/l  | 100      |
| 71) Bromoform                  | 10.86 | 173  | 213890   | 45.932  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 1261766  | 48.331  | ug/l  | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 532660   | 50.675  | ug/l  | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 402638   | 48.580  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 380529m  | 50.719  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 346331   | 48.145  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 1413723  | 49.327  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 835593   | 48.434  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1039926  | 47.671  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 110128   | 44.729  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 966815   | 48.401  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 1073530  | 49.324  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1061651  | 48.397  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1258054  | 48.399  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1130687  | 48.631  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 665617   | 51.193  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 739093   | 59.966  | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 969014   | 48.891  | ug/l  | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 178719   | 48.257  | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 716850   | 55.868  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 83247    | 50.786  | ug/l  | 99       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 416482   | 47.311  | ug/l  | 98       |

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Quant Title : SW846 8260  
QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.78 | 225  | 190656   | 48.805 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 1308315  | 49.046 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 413264   | 47.258 | ug/l  | 99       |

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

