

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021419\  
 Data File : VX007518.D  
 Acq On : 13 Feb 2019 14:17  
 Operator : JC/SP  
 Sample : VX0214WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0214WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 2/14/2019 10:57:05 AM

Quant Time: Feb 14 02:56:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 494807   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 730188   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 657999   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 327140   | 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   | 261057   | 49.71 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.42% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 236625   | 49.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.60% |          |
| 50) Toluene-d8              | 8.71  | 98   | 860732   | 48.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.66% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 301762   | 46.89 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.78% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 102992   | 17.056  | ug/l  | 98     |
| 3) Chloromethane              | 1.33 | 50   | 95757    | 17.181  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.41 | 62   | 105407   | 19.279  | ug/l  | 96     |
| 5) Bromomethane               | 1.64 | 94   | 87240    | 15.801  | ug/l  | 100    |
| 6) Chloroethane               | 1.73 | 64   | 69779    | 19.729  | ug/l  | 95     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 166329   | 19.447  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.19 | 74   | 60989    | 18.945  | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 92489    | 18.179  | ug/l  | 98     |
| 10) Methyl Iodide             | 2.51 | 142  | 115160   | 15.387  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 107991   | 99.357  | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.38 | 96   | 85575    | 18.113  | ug/l  | 97     |
| 13) Acrolein                  | 2.30 | 56   | 42500    | 83.386  | ug/l  | 98     |
| 14) Allyl chloride            | 2.73 | 41   | 148416   | 19.280  | ug/l  | 96     |
| 15) Acrylonitrile             | 3.15 | 53   | 266889   | 99.261  | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 257111   | 106.872 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.57 | 76   | 196637   | 17.363  | ug/l  | 98     |
| 18) Methyl Acetate            | 2.78 | 43   | 147412   | 23.831  | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 300574   | 19.638  | ug/l  | 98     |
| 20) Methylene Chloride        | 2.86 | 84   | 96776    | 19.454  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 90568    | 17.996  | ug/l  | 99     |
| 22) Diisopropyl ether         | 3.87 | 45   | 272694   | 19.259  | ug/l  | 99     |
| 23) Vinyl Acetate             | 3.82 | 43   | 1131170  | 96.270  | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 153606   | 18.890  | ug/l  | 99     |
| 25) 2-Butanone                | 4.70 | 43   | 340125   | 99.343  | ug/l  | 97     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 112025   | 18.090  | ug/l  | 97     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 113878   | 20.717  | ug/l  | 97     |
| 28) Bromochloromethane        | 5.02 | 49   | 71960    | 19.244  | ug/l  | 97     |
| 29) Tetrahydrofuran           | 5.15 | 42   | 216584   | 100.583 | ug/l  | 98     |
| 30) Chloroform                | 5.22 | 83   | 161506   | 19.034  | ug/l  | 99     |
| 31) Cyclohexane               | 5.57 | 56   | 126985   | 17.387  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 135375   | 18.901  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 112800   | 17.217  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.85 | 43   | 125874   | 19.006  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 115507   | 18.173  | ug/l  | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX021419\  
 Data File : VX007518.D  
 Acq On : 13 Feb 2019 14:17  
 Operator : JC/SP  
 Sample : VX0214WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0214WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 2/14/2019 10:57:05 AM

Quant Time: Feb 14 02:56:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 136343   | 17.201  | ug/l   | 98       |
| 40) Benzene                    | 6.14  | 78   | 355541   | 18.423  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 71565    | 20.162  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 119827   | 17.945  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 196096   | 19.183  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 107214   | 18.446  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 88048    | 18.209  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 61656    | 17.544  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 106198   | 17.830  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 100555   | 19.666  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 41428    | 360.696 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 658151   | 97.802  | ug/l   | 100      |
| 52) Toluene                    | 8.79  | 92   | 221913   | 17.822  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 118749   | 18.561  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 130453   | 18.542  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 97594    | 18.803  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 135216   | 18.810  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 151764   | 18.387  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 362615   | 95.702  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 503308   | 96.113  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 91993    | 18.740  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 100952   | 18.366  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 187565   | 30.244  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 261546   | 18.215  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 92411    | 19.196  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 423913   | 18.333  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 329962   | 35.898  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 161792   | 18.292  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 256961   | 17.914  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 65117    | 18.209  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 429735   | 19.331  | ug/l   | 98       |
| 74) N-amyl acetate             | 10.90 | 43   | 172063   | 20.010  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 141738   | 20.920  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 129389m  | 20.334  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 118541   | 18.925  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 474760   | 19.475  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 284774   | 19.252  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 349995   | 19.244  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 33696    | 19.212  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 318914   | 18.633  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 354570   | 19.691  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 366575   | 19.853  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 423511   | 19.433  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 382180   | 19.426  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 207712   | 18.478  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 213379   | 18.710  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 318009   | 18.791  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 55930    | 18.996  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 209077   | 18.689  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 27355    | 19.418  | ug/l   | 95       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX021419\  
Data File : VX007518.D  
Acq On : 13 Feb 2019 14:17  
Operator : JC/SP  
Sample : VX0214WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0214WBSD01

Manual Integrations  
APPROVED

MMDadoda  
2/14/2019 10:57:05 AM

Quant Time: Feb 14 02:56:10 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 144176   | 19.110 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 68276    | 18.637 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 450395   | 20.415 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 141442   | 18.625 | ug/l  | 98       |

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

