

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\  
 Data File : VX014115.D  
 Acq On : 19 Dec 2019 12:35  
 Operator : JC/SP  
 Sample : VX1219WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1219WBS01

Manual Integrations  
 APPROVED

apatel  
 12/20/2019 10:12:42 AM

Quant Time: Dec 20 01:34:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 553324   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 823447   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 732550   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 361138   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 310677   | 49.54  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.08%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 260031   | 51.95  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.90% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1006254  | 51.63  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.26% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 349906   | 49.12  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.24%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85   | 89822    | 18.145  | ug/l  | 98     |
| 3) Chloromethane              | 1.32 | 50   | 127595   | 19.207  | ug/l  | 98     |
| 4) Vinyl Chloride             | 1.40 | 62   | 132814   | 18.947  | ug/l  | 100    |
| 5) Bromomethane               | 1.63 | 94   | 80455    | 16.171  | ug/l  | 99     |
| 6) Chloroethane               | 1.72 | 64   | 83879    | 19.388  | ug/l  | 95     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 167570   | 19.311  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.18 | 74   | 73802    | 18.122  | ug/l  | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 102841   | 19.661  | ug/l  | 98     |
| 10) Methyl Iodide             | 2.50 | 142  | 118874   | 18.950  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.03 | 59   | 118241   | 87.259  | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 99681    | 18.728  | ug/l  | 100    |
| 13) Acrolein                  | 2.28 | 56   | 83811    | 108.049 | ug/l  | 99     |
| 14) Allyl chloride            | 2.72 | 41   | 181575   | 19.106  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.13 | 53   | 302451   | 95.628  | ug/l  | 99     |
| 16) Acetone                   | 2.43 | 43   | 345696   | 84.910  | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.56 | 76   | 260758   | 18.132  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.76 | 43   | 156249   | 19.368  | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73   | 329699   | 18.850  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.84 | 84   | 117204   | 18.281  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96   | 107848   | 18.392  | ug/l  | 97     |
| 22) Diisopropyl ether         | 3.84 | 45   | 370317   | 19.554  | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.80 | 43   | 1550281  | 100.313 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63   | 199120   | 18.899  | ug/l  | 100    |
| 25) 2-Butanone                | 4.65 | 43   | 460534   | 91.750  | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 4.57 | 77   | 154597   | 18.898  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96   | 124577   | 18.785  | ug/l  | 98     |
| 28) Bromochloromethane        | 5.00 | 49   | 82904    | 20.728  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 5.11 | 42   | 270141   | 96.221  | ug/l  | 99     |
| 30) Chloroform                | 5.20 | 83   | 188737   | 18.896  | ug/l  | 97     |
| 31) Cyclohexane               | 5.57 | 56   | 182429   | 19.467  | ug/l  | 96     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97   | 159135   | 18.694  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 5.79 | 75   | 146328   | 19.367  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.82 | 43   | 166154   | 19.914  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 134110   | 19.484  | ug/l  | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\  
 Data File : VX014115.D  
 Acq On : 19 Dec 2019 12:35  
 Operator : JC/SP  
 Sample : VX1219WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX1219WBS01

Manual Integrations  
 APPROVED

apatel  
 12/20/2019 10:12:42 AM

Quant Time: Dec 20 01:34:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 182094   | 19.518  | ug/l   | 95       |
| 40) Benzene                    | 6.13  | 78   | 455516   | 19.594  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.03  | 41   | 91969    | 19.866  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 153541   | 19.484  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.43  | 43   | 266848   | 19.326  | ug/l   | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 121489   | 18.920  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 118649   | 19.912  | ug/l   | 98       |
| 46) Dibromomethane             | 7.65  | 93   | 75474    | 19.158  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.89  | 83   | 143432   | 19.332  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.76  | 41   | 128911   | 19.066  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 54732    | 397.770 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 843834   | 97.309  | ug/l   | 98       |
| 52) Toluene                    | 8.78  | 92   | 283140   | 19.269  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 155968   | 19.171  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 178802   | 19.728  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 114282   | 19.405  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 174913   | 18.907  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 195925   | 19.773  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 356674   | 101.880 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 653583   | 93.626  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 112469   | 19.212  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 118214   | 19.618  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 122639   | 18.919  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 305072   | 19.586  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 108429   | 19.497  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 528722   | 19.744  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 406545   | 39.473  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 195748   | 19.379  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 326201   | 19.098  | ug/l   | 98       |
| 71) Bromoform                  | 10.85 | 173  | 82577    | 18.472  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.01 | 105  | 519936   | 20.448  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.89 | 43   | 226881   | 19.036  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 174214   | 19.763  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 164995m  | 21.045  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 136406   | 19.498  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 589814   | 20.680  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 345342   | 19.919  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 434299   | 20.295  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 52021    | 18.728  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 394743   | 19.629  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 409242   | 19.651  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 433303   | 20.219  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 504680   | 20.528  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 458773   | 20.400  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 230719   | 18.817  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 235226   | 18.868  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 386320   | 20.133  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 77971    | 19.303  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 233915   | 18.952  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 35037    | 17.961  | ug/l   | 98       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\  
Data File : VX014115.D  
Acq On : 19 Dec 2019 12:35  
Operator : JC/SP  
Sample : VX1219WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1219WBS01

Manual Integrations  
APPROVED

apatel  
12/20/2019 10:12:42 AM

Quant Time: Dec 20 01:34:14 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 150483   | 18.758 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 75368    | 19.548 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 433313   | 18.384 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 150361   | 18.987 | ug/l  | 98       |

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

