

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042519\  
 Data File : VX009153.D  
 Acq On : 25 Apr 2019 11:10  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMdadoda  
 4/26/2019 10:05:08 AM

Quant Time: Apr 26 05:09:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 215664   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 341835   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 308336   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 155404   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 131827   | 43.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.74% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 98461    | 44.88 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.76% |          |
| 50) Toluene-d8              | 8.71  | 98   | 391547   | 44.75 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.50% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 147630   | 47.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.60% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 127380   | 51.279  | ug/l  | 100    |
| 3) Chloromethane              | 1.32 | 50   | 150892   | 49.479  | ug/l  | 99     |
| 4) Vinyl Chloride             | 1.41 | 62   | 145256   | 48.938  | ug/l  | 100    |
| 5) Bromomethane               | 1.64 | 94   | 87203    | 47.154  | ug/l  | 99     |
| 6) Chloroethane               | 1.72 | 64   | 89442    | 51.245  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 171519   | 49.494  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.19 | 74   | 76148    | 48.047  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 105856   | 47.775  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 113621   | 47.174  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 3.04 | 59   | 170321   | 252.459 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 105674   | 45.692  | ug/l  | 94     |
| 13) Acrolein                  | 2.29 | 56   | 113123   | 194.062 | ug/l  | 100    |
| 14) Allyl chloride            | 2.73 | 41   | 256695   | 50.874  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.14 | 53   | 421015   | 245.837 | ug/l  | 99     |
| 16) Acetone                   | 2.44 | 43   | 443612   | 281.458 | ug/l  | 97     |
| 17) Carbon Disulfide          | 2.57 | 76   | 318361   | 46.923  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.77 | 43   | 189888   | 48.273  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73   | 406277   | 49.302  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.85 | 84   | 127913   | 47.457  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 115611   | 46.867  | ug/l  | 96     |
| 22) Diisopropyl ether         | 3.85 | 45   | 489889   | 49.965  | ug/l  | 94     |
| 23) Vinyl Acetate             | 3.81 | 43   | 2212275  | 256.683 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 240401   | 48.844  | ug/l  | 100    |
| 25) 2-Butanone                | 4.67 | 43   | 657615   | 261.028 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 184959   | 50.134  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 134622   | 48.066  | ug/l  | 98     |
| 28) Bromochloromethane        | 5.01 | 49   | 103492   | 50.649  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 5.12 | 42   | 407637   | 241.745 | ug/l  | 99     |
| 30) Chloroform                | 5.21 | 83   | 217401   | 49.361  | ug/l  | 99     |
| 31) Cyclohexane               | 5.57 | 56   | 241486   | 49.885  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 181717   | 49.781  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 171983   | 48.647  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.83 | 43   | 233818   | 51.398  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 154860   | 51.669  | ug/l  | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042519\  
 Data File : VX009153.D  
 Acq On : 25 Apr 2019 11:10  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMdadoda  
 4/26/2019 10:05:08 AM

Quant Time: Apr 26 05:09:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 224401   | 52.133   | ug/l   | 100      |
| 40) Benzene                    | 6.14  | 78   | 520951   | 49.950   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.04  | 41   | 131495   | 50.364   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 184199   | 49.858   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.44  | 43   | 375533   | 51.226   | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 124566   | 48.746   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 146715   | 50.707   | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 83417    | 49.539   | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 171183   | 51.831   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.76  | 41   | 187521   | 51.768   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 69008    | 1017.844 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1217288  | 260.640  | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 315307   | 50.445   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 201432   | 52.995   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 223680   | 52.556   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 125567   | 50.688   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 232927   | 52.438   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 224227   | 50.836   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 667853   | 279.202  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 970045   | 269.400  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 126219   | 53.162   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 129908   | 50.810   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 112826   | 48.167   | ug/l   | 96       |
| 65) Chlorobenzene              | 10.13 | 112  | 326517   | 50.170   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 116402   | 50.770   | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 614374   | 51.640   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.35 | 106  | 449244   | 103.902  | ug/l   | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 216491   | 51.459   | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 383064   | 52.543   | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 96781    | 52.985   | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 585427   | 49.699   | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 347672   | 51.404   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 209647   | 48.710   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 185256m  | 48.820   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 141638   | 47.657   | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 697498   | 51.590   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 402888   | 49.451   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 504225   | 51.010   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 75464    | 51.055   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 474633   | 50.162   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 478785   | 50.450   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 505466   | 50.235   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 586527   | 51.819   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 531566   | 51.081   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 259148   | 49.819   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 260696   | 49.439   | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 509657   | 52.588   | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 88613    | 51.623   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 257723   | 50.174   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 50106    | 51.131   | ug/l   | 100      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042519\  
Data File : VX009153.D  
Acq On : 25 Apr 2019 11:10  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMdadoda  
4/26/2019 10:05:08 AM

Quant Time: Apr 26 05:09:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 17 06:47:58 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 196092   | 52.885 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 97409    | 52.673 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 617004   | 51.939 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 194848   | 53.259 | ug/l  | 99       |

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

