

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022619\  
 Data File : VX007710.D  
 Acq On : 26 Feb 2019 13:32  
 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  
 2/27/2019 10:06:51 AM

Quant Time: Feb 26 15:34:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 359211   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 559117   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 509713   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 259397   | 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   | 208625   | 46.89 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 93.78% |          |
| 35) Dibromofluoromethane    | 5.50   | 113  | 185749   | 49.70 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 99.40% |          |
| 50) Toluene-d8              | 8.71   | 98   | 700915   | 48.99 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 97.98% |          |
| 62) 4-Bromofluorobenzene    | 11.13  | 95   | 252980   | 48.17 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 96.34% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 168022   | 50.777  | ug/l  | 98     |
| 3) Chloromethane              | 1.33 | 50   | 171003   | 46.634  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.41 | 62   | 178595   | 47.473  | ug/l  | 100    |
| 5) Bromomethane               | 1.64 | 94   | 119490   | 50.439  | ug/l  | 97     |
| 6) Chloroethane               | 1.71 | 64   | 121827   | 50.687  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 284409   | 49.314  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.19 | 74   | 109682   | 46.340  | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 168051   | 48.210  | ug/l  | 93     |
| 10) Methyl Iodide             | 2.51 | 142  | 224023   | 51.613  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 3.08 | 59   | 194178   | 230.008 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 153066   | 48.715  | ug/l  | 97     |
| 13) Acrolein                  | 2.30 | 56   | 236220   | 314.881 | ug/l  | 100    |
| 14) Allyl chloride            | 2.73 | 41   | 275361   | 47.396  | ug/l  | 98     |
| 15) Acrylonitrile             | 3.15 | 53   | 472216   | 237.687 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 501683   | 253.543 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.57 | 76   | 423830   | 48.484  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.78 | 43   | 206046   | 47.721  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 530847   | 48.515  | ug/l  | 98     |
| 20) Methylene Chloride        | 2.86 | 84   | 170249   | 46.596  | ug/l  | 99     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 163505   | 47.866  | ug/l  | 97     |
| 22) Diisopropyl ether         | 3.87 | 45   | 562720   | 46.528  | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.82 | 43   | 2503026  | 235.889 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 307123   | 46.725  | ug/l  | 100    |
| 25) 2-Butanone                | 4.70 | 43   | 721185   | 239.274 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 249712   | 47.593  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 202276   | 46.539  | ug/l  | 99     |
| 28) Bromochloromethane        | 5.02 | 49   | 147796   | 46.187  | ug/l  | 95     |
| 29) Tetrahydrofuran           | 5.15 | 42   | 455699   | 229.365 | ug/l  | 99     |
| 30) Chloroform                | 5.21 | 83   | 327877   | 46.568  | ug/l  | 95     |
| 31) Cyclohexane               | 5.57 | 56   | 290737   | 47.023  | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 284204   | 48.808  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 245669   | 48.873  | ug/l  | 98     |
| 37) Ethyl Acetate             | 4.85 | 43   | 260312   | 46.619  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 246854   | 48.888  | ug/l  | 93     |

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 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  
 2/27/2019 10:06:51 AM

Quant Time: Feb 26 15:34:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 322785   | 50.809  | ug/l  | 97       |
| 40) Benzene                    | 6.14  | 78   | 750508   | 48.367  | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 144127   | 48.338  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 253874   | 48.678  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 417380   | 48.568  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 205663   | 48.181  | ug/l  | 97       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 194197   | 48.314  | ug/l  | 98       |
| 46) Dibromomethane             | 7.66  | 93   | 132356   | 47.200  | ug/l  | 93       |
| 47) Bromodichloromethane       | 7.90  | 83   | 239408   | 49.266  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 213135   | 47.314  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 7.75  | 88   | 92063    | 946.233 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1375014  | 239.030 | ug/l  | 100      |
| 52) Toluene                    | 8.79  | 92   | 479304   | 48.985  | ug/l  | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 274886   | 45.752  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 297335   | 50.420  | ug/l  | 96       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 197533   | 48.411  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 285333   | 49.174  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 319727   | 48.950  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 870321   | 271.994 | ug/l  | 98       |
| 59) 2-Hexanone                 | 9.49  | 43   | 1078091  | 238.715 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 202375   | 51.545  | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 208263   | 49.160  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.34  | 164  | 199616   | 48.241  | ug/l  | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 536916   | 48.704  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 193198   | 50.241  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 915829   | 50.150  | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 714689   | 100.597 | ug/l  | 98       |
| 69) o-Xylene                   | 10.69 | 106  | 345995   | 50.631  | ug/l  | 99       |
| 70) Styrene                    | 10.71 | 104  | 571604   | 50.888  | ug/l  | 98       |
| 71) Bromoform                  | 10.85 | 173  | 141206   | 48.968  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 930620   | 50.197  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 388094   | 48.205  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 291465   | 45.455  | ug/l  | 98       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 238915m  | 43.210  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 227786   | 48.985  | ug/l  | 90       |
| 78) n-propylbenzene            | 11.36 | 91   | 1083797  | 51.733  | ug/l  | 97       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 618844   | 49.059  | ug/l  | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 775015   | 50.821  | ug/l  | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 90902    | 44.414  | ug/l  | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 740731   | 50.196  | ug/l  | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 743813   | 50.800  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 795443   | 50.994  | ug/l  | 98       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 948520   | 51.696  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 843799   | 52.513  | ug/l  | 98       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 424488   | 49.213  | ug/l  | 98       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 428718   | 48.532  | ug/l  | 98       |
| 89) n-Butylbenzene             | 12.39 | 91   | 761722   | 53.155  | ug/l  | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 137448   | 50.767  | ug/l  | 86       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 417931   | 48.426  | ug/l  | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 63265    | 45.282  | ug/l  | 88       |

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Data File : VX007710.D  
Acq On : 26 Feb 2019 13:32  
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  
2/27/2019 10:06:51 AM

Quant Time: Feb 26 15:34:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 26 01:53:13 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 271179   | 51.476 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 122421   | 50.798 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 893270   | 52.337 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 274834   | 51.957 | ug/l  | 98       |

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

