

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010819\  
 Data File : VX006951.D  
 Acq On : 08 Jan 2019 12:52  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 1/9/2019 10:25:01 AM

Quant Time: Jan 08 13:17:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 13:13:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 590636   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 875470   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 782015   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 392209   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 310766   | 48.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.64%  |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 286069   | 51.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.34% |      |
| 50) Toluene-d8            | 8.71   | 98  | 1056338  | 50.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.22% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 367378   | 48.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.12%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 248807  | 46.047  | ug/l | 98     |
| 3) Chloromethane              | 1.33 | 50  | 274355  | 47.130  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.41 | 62  | 293178  | 48.222  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 286595  | 43.355  | ug/l | 98     |
| 6) Chloroethane               | 1.71 | 64  | 184818  | 43.903  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 454908  | 47.992  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 175038  | 46.493  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 259623  | 46.649  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 406421  | 51.015  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 324562  | 228.463 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 248778  | 47.142  | ug/l | 96     |
| 13) Acrolein                  | 2.30 | 56  | 153876  | 160.560 | ug/l | 96     |
| 14) Allyl chloride            | 2.73 | 41  | 434800  | 48.949  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 762496  | 241.736 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 682389  | 233.330 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 653006  | 46.759  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 391304  | 45.503  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 869880  | 49.665  | ug/l | 99     |
| 20) Methylene Chloride        | 2.86 | 84  | 279910  | 46.285  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 269053  | 46.015  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.87 | 45  | 811478  | 49.936  | ug/l | 92     |
| 23) Vinyl Acetate             | 3.82 | 43  | 3438028 | 258.648 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 452879  | 46.685  | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 1014879 | 246.703 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 346628  | 46.258  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 306537  | 47.516  | ug/l | 99     |
| 28) Bromochloromethane        | 5.02 | 49  | 213332  | 47.831  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 655957  | 242.099 | ug/l | 98     |
| 30) Chloroform                | 5.21 | 83  | 469098  | 46.697  | ug/l | 97     |
| 31) Cyclohexane               | 5.57 | 56  | 403876  | 45.828  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 410980  | 48.451  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 350343  | 48.317  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.85 | 43  | 382367  | 50.666  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 357654  | 50.755  | ug/l | 95     |

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 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 1/9/2019 10:25:01 AM

Quant Time: Jan 08 13:17:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 13:13:55 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 442319   | 46.335  | ug/l   | 98       |
| 40) Benzene                    | 6.14  | 78   | 1067914  | 48.453  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 206171   | 51.456  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 362628   | 48.284  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 610334   | 53.151  | ug/l   | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 314670   | 47.170  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 270739   | 50.478  | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 190226   | 48.218  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 334123   | 51.012  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.77  | 41   | 308199   | 52.779  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 142484   | 862.391 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1940899  | 265.650 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 685002   | 48.107  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 381417   | 54.297  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 415902   | 53.959  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 284289   | 48.777  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 415625   | 50.455  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 456966   | 48.732  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 1133553  | 258.873 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 1470218  | 263.002 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 292962   | 54.572  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 310885   | 50.178  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 300967   | 48.603  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 780785   | 47.194  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 281642   | 54.563  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 1293746  | 47.856  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 1022275  | 95.829  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 497528   | 47.230  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 798611   | 47.920  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 217668   | 55.390  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 1308324  | 48.760  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 540763   | 56.305  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 408582   | 51.202  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 380224m  | 52.165  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 358919   | 49.478  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 1462977  | 49.513  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 847902   | 47.353  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1088699  | 49.262  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 118880   | 58.420  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 999751   | 48.675  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 1103506  | 49.889  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1114256  | 47.933  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1304008  | 48.084  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1169994  | 49.079  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 630511   | 48.227  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 624774   | 46.617  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 1003403  | 49.458  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 180438   | 55.564  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 616976   | 47.176  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 86802    | 52.571  | ug/l   | 98       |

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Sample : VSTDICCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

MMDadoda  
1/9/2019 10:25:01 AM

Quant Time: Jan 08 13:17:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 08 13:13:55 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 436562   | 48.392 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 194115   | 45.651 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 1324340  | 45.996 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 428099   | 45.961 | ug/l  | 99       |

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

