

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092019\  
 Data File : VX012545.D  
 Acq On : 20 Sep 2019 10:16  
 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  
 9/23/2019 11:29:30 AM

Quant Time: Sep 20 16:22:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 15:27:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 186442   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 305691   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 274572   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 136527   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.04   | 65  | 127460   | 47.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.40%  |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 93455    | 50.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.02% |      |
| 50) Toluene-d8            | 8.71   | 98  | 338789   | 49.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.94%  |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 138664   | 48.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.52%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 57799   | 46.494  | ug/l | 99     |
| 3) Chloromethane              | 1.31 | 50  | 50117   | 48.894  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.40 | 62  | 53694   | 48.467  | ug/l | 100    |
| 5) Bromomethane               | 1.62 | 94  | 21008   | 48.267  | ug/l | 95     |
| 6) Chloroethane               | 1.71 | 64  | 38198   | 44.061  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 103883  | 51.153  | ug/l | 99     |
| 8) Diethyl Ether              | 2.18 | 74  | 46515   | 50.710  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 66269   | 45.100  | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 59226   | 47.239  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 151532  | 222.989 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 52126   | 44.470  | ug/l | 99     |
| 13) Acrolein                  | 2.28 | 56  | 55498   | 236.438 | ug/l | 100    |
| 14) Allyl chloride            | 2.72 | 41  | 135517  | 49.658  | ug/l | 100    |
| 15) Acrylonitrile             | 3.12 | 53  | 288590  | 249.232 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 331467  | 272.192 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.56 | 76  | 70813   | 42.980  | ug/l | 100    |
| 18) Methyl Acetate            | 2.76 | 43  | 137464  | 49.369  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 326561  | 51.096  | ug/l | 97     |
| 20) Methylene Chloride        | 2.84 | 84  | 79478   | 49.147  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 60507   | 49.709  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.84 | 45  | 323095  | 50.565  | ug/l | 98     |
| 23) Vinyl Acetate             | 3.80 | 43  | 1373168 | 261.247 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.68 | 63  | 153597  | 50.241  | ug/l | 99     |
| 25) 2-Butanone                | 4.65 | 43  | 455371  | 245.678 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 140188  | 46.625  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 92360   | 50.794  | ug/l | 97     |
| 28) Bromochloromethane        | 5.00 | 49  | 78779   | 49.983  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 256720  | 250.713 | ug/l | 100    |
| 30) Chloroform                | 5.19 | 83  | 169517  | 48.280  | ug/l | 99     |
| 31) Cyclohexane               | 5.56 | 56  | 92502   | 50.122  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 143591  | 48.931  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.78 | 75  | 92308   | 49.685  | ug/l | 97     |
| 37) Ethyl Acetate             | 4.81 | 43  | 151441  | 53.104  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 113762  | 49.234  | ug/l | 96     |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 9/23/2019 11:29:30 AM

Quant Time: Sep 20 16:22:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 15:27:10 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 92728    | 51.342  | ug/l   | 99       |
| 40) Benzene                    | 6.12  | 78   | 305646   | 51.736  | ug/l   | 96       |
| 41) Methacrylonitrile          | 5.02  | 41   | 90484    | 49.276  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 140224   | 51.174  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.43  | 43   | 263609   | 51.502  | ug/l   | 100      |
| 44) Trichloroethene            | 7.20  | 130  | 81962    | 52.740  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 93963    | 51.769  | ug/l   | 98       |
| 46) Dibromomethane             | 7.65  | 93   | 61629    | 52.470  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.89  | 83   | 138392   | 52.917  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.76  | 41   | 124793   | 51.722  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 58139    | 990.058 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 853602   | 254.303 | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 200101   | 52.563  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 146553   | 53.908  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 156163   | 55.486  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 103119   | 52.578  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 161792   | 52.762  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 165831   | 52.994  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 440625   | 277.593 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 664680   | 253.818 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.57  | 129  | 108630   | 54.376  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 97501    | 54.432  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.33  | 164  | 74719    | 59.386  | ug/l   | 94       |
| 65) Chlorobenzene              | 10.14 | 112  | 236792   | 52.251  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 102746   | 54.629  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 408294   | 52.440  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.35 | 106  | 297909   | 105.160 | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 153636   | 52.734  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 277844   | 53.902  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 78598    | 48.619  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 432750   | 50.518  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 238607   | 51.737  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 167139   | 49.739  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 164605m  | 52.487  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 107458   | 51.436  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 486113   | 50.915  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 304928   | 49.093  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 370511   | 50.716  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 52996    | 46.616  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 361332   | 50.688  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 381798   | 48.771  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 381708   | 50.886  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 434414   | 50.360  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 402734   | 50.844  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 203608   | 51.810  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 207657   | 51.441  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 351884   | 49.789  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 71808    | 49.441  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 205955   | 50.142  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 43815    | 50.294  | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

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9/23/2019 11:29:30 AM

Quant Time: Sep 20 16:22:05 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 17 15:27:10 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 142755   | 53.958 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 59878    | 48.020 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 509094   | 54.079 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 143841   | 53.353 | ug/l  | 98       |

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

