

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX041219\  
 Data File : VX008900.D  
 Acq On : 12 Apr 2019 20:34  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/13/2019 2:11:53 PM

Quant Time: Apr 13 06:06:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 156016   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 262245   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 228622   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 105666   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 112558   | 49.46 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.92% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 82908    | 49.45 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.90% |      |
| 50) Toluene-d8            | 8.71   | 98  | 325286   | 48.72 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.44% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 114866   | 48.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.04% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 104238  | 58.043  | ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 119098  | 54.256  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.41 | 62  | 118229  | 48.700  | ug/l | 97     |
| 5) Bromomethane               | 1.64 | 94  | 66741   | 55.589  | ug/l | 99     |
| 6) Chloroethane               | 1.71 | 64  | 74724   | 56.770  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 135550  | 50.510  | ug/l | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 62034   | 48.745  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 83838   | 48.523  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 79773   | 50.639  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.06 | 59  | 139365  | 261.599 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 87780   | 48.667  | ug/l | 98     |
| 13) Acrolein                  | 2.29 | 56  | 71962   | 272.416 | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 209152  | 50.653  | ug/l | 98     |
| 15) Acrylonitrile             | 3.15 | 53  | 359563  | 254.769 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 310967  | 237.258 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 259567  | 49.833  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 164766  | 51.834  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 336218  | 52.197  | ug/l | 99     |
| 20) Methylene Chloride        | 2.85 | 84  | 104701  | 47.724  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 94218   | 48.293  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.86 | 45  | 407062  | 51.149  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.82 | 43  | 1846425 | 266.697 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 200172  | 50.801  | ug/l | 99     |
| 25) 2-Butanone                | 4.68 | 43  | 539724  | 260.541 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 126294  | 45.508  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 110711  | 49.357  | ug/l | 98     |
| 28) Bromochloromethane        | 5.02 | 49  | 84640   | 51.515  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.13 | 42  | 361041  | 262.587 | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 178572  | 50.740  | ug/l | 98     |
| 31) Cyclohexane               | 5.58 | 56  | 195473  | 49.717  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 147828  | 51.980  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 139335  | 48.606  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.84 | 43  | 204489  | 53.443  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 121894  | 51.376  | ug/l | 98     |

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 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/13/2019 2:11:53 PM

Quant Time: Apr 13 06:06:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 169004   | 47.725  | ug/l  | 99       |
| 40) Benzene                    | 6.15  | 78   | 428945   | 50.228  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 112481   | 51.142  | ug/l  | 100      |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 152613   | 49.848  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.45  | 43   | 316724   | 52.841  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 100452   | 50.504  | ug/l  | 95       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 122818   | 50.387  | ug/l  | 98       |
| 46) Dibromomethane             | 7.66  | 93   | 68505    | 48.457  | ug/l  | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 137684   | 51.653  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 158861   | 52.394  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 55332    | 974.181 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1015717  | 263.241 | ug/l  | 100      |
| 52) Toluene                    | 8.79  | 92   | 252799   | 50.211  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 157184   | 52.643  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 175129   | 51.331  | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 102490   | 50.713  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 191688   | 52.422  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 184247   | 50.771  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 472993   | 253.326 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 765676   | 255.342 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 101762   | 53.435  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 106043   | 50.403  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.34  | 164  | 87948    | 51.922  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 254160   | 50.152  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 94169    | 52.967  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 472186   | 49.967  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 340458   | 100.202 | ug/l  | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 164723   | 50.025  | ug/l  | 99       |
| 70) Styrene                    | 10.71 | 104  | 290132   | 51.116  | ug/l  | 99       |
| 71) Bromoform                  | 10.86 | 173  | 73943    | 54.456  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 443532   | 50.650  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 264167   | 51.274  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 161961   | 48.632  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 138293m  | 47.642  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 105717   | 50.218  | ug/l  | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 506352   | 49.661  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 298989   | 48.456  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 367933   | 50.055  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 54890    | 52.125  | ug/l  | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 343623   | 48.111  | ug/l  | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 358513   | 50.696  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 370576   | 49.789  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 419170   | 49.901  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 378567   | 50.211  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 183931   | 48.805  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 183244   | 48.017  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 350138   | 49.520  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 65045    | 52.015  | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 182447   | 48.758  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 36976    | 50.471  | ug/l  | 99       |

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Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
4/13/2019 2:11:53 PM

Quant Time: Apr 13 06:06:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 04 04:47:41 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 128302   | 49.315 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 63937    | 51.243 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 435224   | 50.052 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 128968   | 49.614 | ug/l  | 99       |

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

