

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX021120\  
 Data File : VX014904.D  
 Acq On : 11 Feb 2020 09:50  
 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  
 2/12/2020 3:04:08 PM

Quant Time: Feb 12 05:48:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 464414   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 673649   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 621209   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 333151   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 244922   | 46.73 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.46% |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 202688   | 48.94 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.88% |      |
| 50) Toluene-d8            | 8.71   | 98  | 771819   | 48.82 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.64% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 282130   | 49.54 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.08% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 238642  | 54.260  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 251359  | 50.410  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.40 | 62  | 267582  | 49.815  | ug/l | 99     |
| 5) Bromomethane               | 1.63 | 94  | 165571  | 47.620  | ug/l | 97     |
| 6) Chloroethane               | 1.72 | 64  | 165339  | 48.106  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 378036  | 50.372  | ug/l | 100    |
| 8) Diethyl Ether              | 2.18 | 74  | 153455  | 49.309  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 217522  | 49.933  | ug/l | 100    |
| 10) Methyl Iodide             | 2.50 | 142 | 250028  | 51.354  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.02 | 59  | 230766  | 249.364 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 212196  | 49.849  | ug/l | 97     |
| 13) Acrolein                  | 2.28 | 56  | 149393  | 211.809 | ug/l | 98     |
| 14) Allyl chloride            | 2.72 | 41  | 363969  | 48.226  | ug/l | 99     |
| 15) Acrylonitrile             | 3.13 | 53  | 566995  | 241.684 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 702375  | 249.446 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.56 | 76  | 572524  | 48.137  | ug/l | 100    |
| 18) Methyl Acetate            | 2.76 | 43  | 252792  | 47.889  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 696160  | 50.251  | ug/l | 98     |
| 20) Methylene Chloride        | 2.85 | 84  | 233524  | 46.316  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 227298  | 48.392  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.84 | 45  | 721628  | 50.063  | ug/l | 89     |
| 23) Vinyl Acetate             | 3.80 | 43  | 3140600 | 264.302 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 402105  | 49.428  | ug/l | 99     |
| 25) 2-Butanone                | 4.65 | 43  | 890148  | 249.463 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 344138  | 49.086  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 256752  | 48.900  | ug/l | 99     |
| 28) Bromochloromethane        | 5.00 | 49  | 158217  | 50.175  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 508990  | 250.928 | ug/l | 99     |
| 30) Chloroform                | 5.20 | 83  | 400691  | 49.643  | ug/l | 97     |
| 31) Cyclohexane               | 5.57 | 56  | 372901  | 50.326  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 352172  | 49.880  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 309683  | 51.391  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.81 | 43  | 319775  | 50.879  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 306752  | 52.235  | ug/l | 99     |

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

Instrument :  
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 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 2/12/2020 3:04:08 PM

Quant Time: Feb 12 05:48:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 395870   | 52.528   | ug/l  | 99       |
| 40) Benzene                    | 6.13  | 78   | 918529   | 51.016   | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.03  | 41   | 175524   | 51.840   | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 326269   | 50.138   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 534284   | 51.532   | ug/l  | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 259194   | 49.590   | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 232828   | 50.706   | ug/l  | 100      |
| 46) Dibromomethane             | 7.65  | 93   | 157328   | 50.125   | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 315220   | 50.651   | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.76  | 41   | 266505   | 52.231   | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 105679   | 1107.756 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.63  | 43   | 1612696  | 257.603  | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 589058   | 51.512   | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 354007   | 51.904   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 387609   | 51.444   | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 232653   | 50.286   | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 370128   | 53.224   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 391037   | 50.210   | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 865061   | 237.858  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 1303176  | 264.832  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 256247   | 51.466   | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 247059   | 49.491   | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 278330   | 47.921   | ug/l  | 97       |
| 65) Chlorobenzene              | 10.13 | 112  | 640663   | 50.847   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 240187   | 52.508   | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 1130816  | 52.772   | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 870131   | 105.408  | ug/l  | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 416877   | 52.535   | ug/l  | 100      |
| 70) Styrene                    | 10.71 | 104  | 718231   | 53.502   | ug/l  | 100      |
| 71) Bromoform                  | 10.85 | 173  | 198873   | 52.086   | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 1124110  | 53.805   | ug/l  | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 468966   | 54.023   | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 349003   | 51.102   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 294090m  | 48.816   | ug/l  |          |
| 77) Bromobenzene               | 11.25 | 156  | 296668   | 50.875   | ug/l  | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 1282485  | 53.074   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 745816   | 52.501   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 941358   | 53.925   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 120921   | 51.377   | ug/l  | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 872691   | 51.875   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 900755   | 54.490   | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 952237   | 54.128   | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1101168  | 53.622   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1027104  | 53.447   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 533656   | 51.013   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 526522   | 49.287   | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 895015   | 52.003   | ug/l  | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 180496   | 53.783   | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 525837   | 51.257   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 76899    | 47.995   | 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

Manual Integrations  
APPROVED

MMDadoda  
2/12/2020 3:04:08 PM

Quant Time: Feb 12 05:48:33 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 10 12:09:20 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 382547   | 50.520 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 187306   | 51.141 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 1089271  | 54.103 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 378654   | 51.759 | ug/l  | 99       |

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

