

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051320\  
 Data File : VX016166.D  
 Acq On : 13 May 2020 09:53  
 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  
 5/14/2020 12:15:53 PM

Quant Time: May 14 06:06:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 299358   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 465835   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 428415   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 218721   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 186265   | 47.28 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.56%  |       |
| 35) Dibromofluoromethane  | 5.46   | 113 | 147411   | 49.95 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.90%  |       |
| 50) Toluene-d8            | 8.70   | 98  | 588417   | 51.75 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.50% |       |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 223704   | 51.72 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.44% |       |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 162660  | 51.335  | ug/l | 100    |
| 3) Chloromethane              | 1.31 | 50  | 175723  | 47.753  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 185050  | 47.135  | ug/l | 99     |
| 5) Bromomethane               | 1.62 | 94  | 83251   | 42.061  | ug/l | 97     |
| 6) Chloroethane               | 1.70 | 64  | 112616  | 47.144  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 245463  | 47.624  | ug/l | 99     |
| 8) Diethyl Ether              | 2.17 | 74  | 100897  | 46.460  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 140826  | 47.357  | ug/l | 97     |
| 10) Methyl Iodide             | 2.49 | 142 | 167006  | 41.811  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 204558  | 205.352 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 142365  | 45.749  | ug/l | 97     |
| 13) Acrolein                  | 2.27 | 56  | 120685  | 193.608 | ug/l | 99     |
| 14) Allyl chloride            | 2.70 | 41  | 270429  | 47.396  | ug/l | 96     |
| 15) Acrylonitrile             | 3.11 | 53  | 479539  | 232.056 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 366699  | 208.630 | ug/l | 97     |
| 17) Carbon Disulfide          | 2.55 | 76  | 433845  | 46.410  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 207343  | 47.978  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 536981  | 50.057  | ug/l | 100    |
| 20) Methylene Chloride        | 2.83 | 84  | 169289  | 46.721  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 164730  | 47.503  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.82 | 45  | 532106  | 49.433  | ug/l | 89     |
| 23) Vinyl Acetate             | 3.78 | 43  | 2314293 | 244.376 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 301234  | 50.027  | ug/l | 100    |
| 25) 2-Butanone                | 4.63 | 43  | 610892  | 215.688 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.54 | 77  | 274558  | 49.928  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 187420  | 49.437  | ug/l | 99     |
| 28) Bromochloromethane        | 4.98 | 49  | 138908  | 50.591  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.08 | 42  | 425329  | 226.639 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 296728  | 49.493  | ug/l | 99     |
| 31) Cyclohexane               | 5.55 | 56  | 267032  | 48.796  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 269324  | 49.420  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.76 | 75  | 230502  | 50.268  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 253797  | 47.754  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 241632  | 51.843  | ug/l | 97     |

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 Acq On : 13 May 2020 09:53  
 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  
 5/14/2020 12:15:53 PM

Quant Time: May 14 06:06:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 263171   | 47.657  | ug/l   | 99       |
| 40) Benzene                    | 6.11  | 78   | 682509   | 50.869  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.00  | 41   | 137651   | 47.959  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 236609   | 48.955  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 414271   | 48.854  | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 251723   | 52.810  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 177288   | 52.221  | ug/l   | 98       |
| 46) Dibromomethane             | 7.63  | 93   | 116412   | 50.458  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.87  | 83   | 245135   | 52.170  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.74  | 41   | 195611   | 48.682  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 79930    | 829.422 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1268021  | 244.360 | ug/l   | 99       |
| 52) Toluene                    | 8.76  | 92   | 437306   | 52.291  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 290448   | 51.844  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 302815   | 51.748  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 170950   | 51.956  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 279613   | 52.062  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 297841   | 51.877  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 770520   | 269.480 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 989683   | 242.857 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 195839   | 54.043  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 183354   | 51.446  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 282145   | 53.646  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 466587   | 52.013  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 176082   | 53.107  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.23 | 91   | 839429   | 52.446  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 639194   | 106.590 | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 305356   | 52.974  | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 525465   | 53.733  | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 150223   | 55.611  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 814758   | 51.215  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 359830   | 48.492  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 124716   | 41.009  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 246317m  | 49.628  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 204361   | 49.768  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 938255   | 50.697  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 552857   | 50.608  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 685488   | 51.034  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 104106   | 49.986  | ug/l # | 83       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 662497   | 51.356  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 575693   | 49.733  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 698517   | 51.438  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 760378   | 48.651  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 717254   | 49.428  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 374641   | 50.813  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 379716   | 50.742  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.37 | 91   | 633267   | 47.770  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.58 | 117  | 122627   | 49.206  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 359134   | 50.587  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 58256    | 44.535  | ug/l   | 97       |

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Acq On : 13 May 2020 09:53  
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  
5/14/2020 12:15:53 PM

Quant Time: May 14 06:06:54 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 254524   | 48.424 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 103700   | 45.862 | ug/l  | 99       |
| 95) Naphthalene            | 13.82 | 128  | 825007   | 48.475 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 247046   | 48.093 | ug/l  | 100      |

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

