

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022719\  
 Data File : VX007753.D  
 Acq On : 27 Feb 2019 23:51  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/28/2019 12:23:09 PM

Quant Time: Feb 28 06:12:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 286440   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 425380   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 381754   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 198603   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 173127   | 48.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.58% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 142072   | 49.96 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.92% |          |
| 50) Toluene-d8              | 8.71  | 98   | 520277   | 47.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.58% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 186792   | 46.75 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.50% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 114649   | 43.449  | ug/l  | 98     |
| 3) Chloromethane              | 1.33 | 50   | 129582   | 44.316  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.41 | 62   | 138487   | 46.164  | ug/l  | 99     |
| 5) Bromomethane               | 1.64 | 94   | 79927    | 42.051  | ug/l  | 99     |
| 6) Chloroethane               | 1.72 | 64   | 91181    | 47.574  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 195670   | 42.547  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.19 | 74   | 85512    | 45.307  | ug/l  | 88     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 112115   | 40.335  | ug/l  | 98     |
| 10) Methyl Iodide             | 2.51 | 142  | 173725   | 50.193  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.08 | 59   | 167836   | 249.312 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 112274   | 44.810  | ug/l  | 91     |
| 13) Acrolein                  | 2.30 | 56   | 128843   | 215.381 | ug/l  | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 233781   | 50.462  | ug/l  | 93     |
| 15) Acrylonitrile             | 3.15 | 53   | 403683   | 254.813 | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 356455   | 225.914 | ug/l  | 97     |
| 17) Carbon Disulfide          | 2.57 | 76   | 300103   | 43.052  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.78 | 43   | 186926   | 54.292  | ug/l  | 93     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73   | 416569   | 47.743  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.86 | 84   | 128086   | 43.963  | ug/l  | 94     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 120144   | 44.108  | ug/l  | 90     |
| 22) Diisopropyl ether         | 3.87 | 45   | 488953   | 50.699  | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.82 | 43   | 2122859  | 250.888 | ug/l  | 97     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 252540   | 48.182  | ug/l  | 98     |
| 25) 2-Butanone                | 4.70 | 43   | 613957   | 255.448 | ug/l  | 96     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 153937   | 36.793  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 152700   | 44.058  | ug/l  | 93     |
| 28) Bromochloromethane        | 5.02 | 49   | 131689   | 51.609  | ug/l  | 85     |
| 29) Tetrahydrofuran           | 5.15 | 42   | 407675   | 257.323 | ug/l  | 93     |
| 30) Chloroform                | 5.21 | 83   | 254427   | 45.317  | ug/l  | 100    |
| 31) Cyclohexane               | 5.57 | 56   | 223297   | 45.291  | ug/l  | 95     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 212103   | 45.680  | ug/l  | 97     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 185314   | 48.457  | ug/l  | 96     |
| 37) Ethyl Acetate             | 4.85 | 43   | 231874   | 54.582  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 183788   | 47.842  | ug/l  | 97     |

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 Acq On : 27 Feb 2019 23:51  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 2/28/2019 12:23:09 PM

Quant Time: Feb 28 06:12:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 217526   | 45.005   | ug/l   | 93       |
| 40) Benzene                    | 6.15  | 78   | 576780   | 48.857   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.06  | 41   | 130904   | 57.706   | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 206329   | 51.999   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 357797   | 54.724   | ug/l   | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 154765   | 47.656   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 154492   | 50.519   | ug/l   | 100      |
| 46) Dibromomethane             | 7.66  | 93   | 99373    | 46.579   | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 186129   | 50.344   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 190828   | 55.680   | ug/l   | 92       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 76121    | 1028.355 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1179877  | 269.592  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 354940   | 47.679   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 201409   | 44.166   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 222272   | 49.541   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 147224   | 47.425   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 228928   | 51.857   | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 249127   | 50.133   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 647376   | 265.927  | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.49  | 43   | 892989   | 259.894  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 150411   | 50.354   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 156580   | 48.581   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 159765   | 51.551   | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 388696   | 47.077   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 144825   | 50.285   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 657189   | 48.049   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 507496   | 95.377   | ug/l   | 96       |
| 69) o-Xylene                   | 10.69 | 106  | 249651   | 48.778   | ug/l   | 97       |
| 70) Styrene                    | 10.71 | 104  | 416407   | 49.498   | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 118464   | 54.852   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 662815   | 46.696   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 309235   | 50.168   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 218988   | 44.606   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 185141m  | 43.734   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 176767   | 49.650   | ug/l   | 94       |
| 78) n-propylbenzene            | 11.36 | 91   | 737255   | 45.964   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 440998   | 45.662   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 548839   | 47.007   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 62462    | 40.169   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 508066   | 44.969   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 533197   | 47.563   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 560359   | 46.919   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 650050   | 46.274   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 581139   | 47.238   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 310456   | 47.011   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 311523   | 46.060   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 489424   | 44.608   | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 93040    | 44.884   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 312423   | 47.282   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 49074    | 45.877   | ug/l   | 95       |

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Data File : VX007753.D  
Acq On : 27 Feb 2019 23:51  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
2/28/2019 12:23:09 PM

Quant Time: Feb 28 06:12:54 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 26 01:53:13 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 216375   | 53.646 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 113081   | 61.286 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 674957   | 51.651 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 220674   | 54.489 | ug/l  | 99       |

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

