

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041520\  
 Data File : VX015674.D  
 Acq On : 15 Apr 2020 11:18  
 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  
 4/16/2020 11:03:45 AM

Quant Time: Apr 16 06:08:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 1119835  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1649741  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1499965  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 822669   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03   | 65   | 673227   | 42.63 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 85.26% |          |
| 35) Dibromofluoromethane    | 5.46   | 113  | 512536   | 48.60 | ug/l   | -0.01    |
| Spiked Amount               | 50.000 |      | Recovery | =     | 97.20% |          |
| 50) Toluene-d8              | 8.70   | 98   | 1937958  | 49.91 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 99.82% |          |
| 62) 4-Bromofluorobenzene    | 11.12  | 95   | 775991   | 49.18 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 98.36% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85   | 428699   | 43.452  | ug/l  | 97     |
| 3) Chloromethane              | 1.31 | 50   | 512434   | 40.785  | ug/l  | 97     |
| 4) Vinyl Chloride             | 1.39 | 62   | 526053   | 45.598  | ug/l  | 100    |
| 5) Bromomethane               | 1.62 | 94   | 264653   | 49.720  | ug/l  | 99     |
| 6) Chloroethane               | 1.71 | 64   | 325369   | 45.474  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 715559   | 46.249  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.17 | 74   | 296573   | 45.446  | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 482220   | 47.810  | ug/l  | 97     |
| 10) Methyl Iodide             | 2.49 | 142  | 486544   | 35.779  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 3.01 | 59   | 661166   | 174.893 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 469921   | 44.448  | ug/l  | 99     |
| 13) Acrolein                  | 2.27 | 56   | 635237   | 294.982 | ug/l  | 99     |
| 14) Allyl chloride            | 2.70 | 41   | 1011601  | 40.950  | ug/l  | 98     |
| 15) Acrylonitrile             | 3.11 | 53   | 1476920  | 204.858 | ug/l  | 100    |
| 16) Acetone                   | 2.42 | 43   | 1343786  | 198.038 | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.55 | 76   | 1241221  | 38.485  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.75 | 43   | 728882   | 42.087  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73   | 1758742  | 42.892  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.83 | 84   | 531812   | 41.960  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96   | 502402   | 42.818  | ug/l  | 98     |
| 22) Diisopropyl ether         | 3.83 | 45   | 1933454  | 44.169  | ug/l  | 89     |
| 23) Vinyl Acetate             | 3.78 | 43   | 8329986  | 210.176 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63   | 977350   | 42.406  | ug/l  | 99     |
| 25) 2-Butanone                | 4.63 | 43   | 2138510  | 195.969 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.55 | 77   | 867988   | 45.882  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96   | 602268   | 44.366  | ug/l  | 99     |
| 28) Bromochloromethane        | 4.98 | 49   | 483729   | 43.959  | ug/l  | 94     |
| 29) Tetrahydrofuran           | 5.09 | 42   | 1366324  | 194.762 | ug/l  | 99     |
| 30) Chloroform                | 5.18 | 83   | 978747   | 44.139  | ug/l  | 96     |
| 31) Cyclohexane               | 5.55 | 56   | 886953   | 44.361  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97   | 883507   | 44.027  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75   | 734953   | 48.351  | ug/l  | 98     |
| 37) Ethyl Acetate             | 4.79 | 43   | 839213   | 42.401  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.75 | 117  | 784035   | 47.622  | 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  
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MMDadoda  
 4/16/2020 11:03:45 AM

Quant Time: Apr 16 06:08:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 895225   | 51.079  | ug/l   | 98       |
| 40) Benzene                    | 6.11  | 78   | 2140372  | 48.070  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.00  | 41   | 487618   | 44.381  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 824419   | 46.095  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 1456917  | 43.606  | ug/l   | 99       |
| 44) Trichloroethene            | 7.18  | 130  | 603375   | 49.687  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 572267   | 46.981  | ug/l   | 100      |
| 46) Dibromomethane             | 7.64  | 93   | 371940   | 46.549  | ug/l   | 95       |
| 47) Bromodichloromethane       | 7.87  | 83   | 792442   | 46.544  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.75  | 41   | 735222   | 44.055  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.72  | 88   | 278174   | 893.518 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 4234355  | 223.628 | ug/l   | 99       |
| 52) Toluene                    | 8.76  | 92   | 1354383  | 49.337  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 914142   | 45.780  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 965814   | 47.482  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 551469   | 49.032  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 911822   | 46.002  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 943247   | 46.548  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 2264861  | 234.912 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.47  | 43   | 3159746  | 221.032 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.56  | 129  | 651447   | 48.202  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 588727   | 48.140  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 580638   | 51.294  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 1504988  | 50.311  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 586734   | 49.096  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 2659432  | 50.126  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 2009950  | 101.739 | ug/l   | 97       |
| 69) o-Xylene                   | 10.68 | 106  | 984785   | 50.445  | ug/l   | 97       |
| 70) Styrene                    | 10.70 | 104  | 1724912  | 50.212  | ug/l   | 98       |
| 71) Bromoform                  | 10.84 | 173  | 518358   | 47.647  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 2673967  | 49.607  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 1248123  | 41.632  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 825903   | 44.653  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 781929m  | 46.220  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 707283   | 49.192  | ug/l   | 95       |
| 78) n-propylbenzene            | 11.34 | 91   | 3014968  | 48.915  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 1802674  | 47.717  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 2263214  | 49.163  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 294304   | 41.742  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 2138041  | 48.276  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 2271162  | 50.508  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 2311517  | 49.274  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 2658829  | 51.126  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 2496768  | 51.715  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 1318604  | 51.229  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 1328388  | 50.667  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 2238835  | 51.316  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 439772   | 46.800  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 1297066  | 51.492  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 199475   | 38.211  | ug/l   | 92       |

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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  
4/16/2020 11:03:45 AM

Quant Time: Apr 16 06:08:44 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 998622   | 50.120 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 499494   | 52.654 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 2951399  | 48.561 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 1023425  | 53.350 | ug/l  | 98       |

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

