

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070119\  
 Data File : VX010603.D  
 Acq On : 01 Jul 2019 20:01  
 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  
 7/2/2019 9:55:35 AM

Quant Time: Jul 02 07:21:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 5.66  | 168  | 231857   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.86  | 114  | 352717   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 10.11 | 117  | 319804   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.08 | 152  | 164326   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 6.06  | 65   | 130110   | 59.85   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 119.70% |          |
| 35) Dibromofluoromethane      | 5.50  | 113  | 126033   | 58.40   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 116.80% |          |
| 50) Toluene-d8                | 8.71  | 98   | 465682   | 56.40   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 112.80% |          |
| 62) 4-Bromofluorobenzene      | 11.13 | 95   | 170559   | 57.22   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 114.44% |          |
| Target Compounds              |       |      |          |         |         |          |
|                               |       |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.20  | 85   | 72346    | 44.882  | ug/l    | 100      |
| 3) Chloromethane              | 1.32  | 50   | 79765    | 42.496  | ug/l    | 99       |
| 4) Vinyl Chloride             | 1.41  | 62   | 91807    | 44.656  | ug/l    | 98       |
| 5) Bromomethane               | 1.64  | 94   | 46672    | 46.598  | ug/l    | 99       |
| 6) Chloroethane               | 1.71  | 64   | 59528    | 49.078  | ug/l    | 95       |
| 7) Trichlorofluoromethane     | 1.93  | 101  | 165809   | 50.876  | ug/l    | 98       |
| 8) Diethyl Ether              | 2.19  | 74   | 59564    | 50.964  | ug/l    | 100      |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38  | 101  | 94781    | 47.990  | ug/l    | 99       |
| 10) Methyl Iodide             | 2.51  | 142  | 130237   | 46.206  | ug/l    | 98       |
| 11) Tert butyl alcohol        | 3.05  | 59   | 124994   | 219.736 | ug/l    | 98       |
| 12) 1,1-Dichloroethene        | 2.37  | 96   | 95923    | 47.730  | ug/l    | 99       |
| 13) Acrolein                  | 2.29  | 56   | 101463   | 268.882 | ug/l    | 100      |
| 14) Allyl chloride            | 2.73  | 41   | 141329   | 49.534  | ug/l    | 99       |
| 15) Acrylonitrile             | 3.14  | 53   | 291382   | 258.723 | ug/l    | 99       |
| 16) Acetone                   | 2.45  | 43   | 228708   | 209.923 | ug/l    | 98       |
| 17) Carbon Disulfide          | 2.57  | 76   | 217584   | 40.355  | ug/l    | 99       |
| 18) Methyl Acetate            | 2.78  | 43   | 116946   | 53.857  | ug/l    | 100      |
| 19) Methyl tert-butyl Ether   | 3.20  | 73   | 325159   | 51.431  | ug/l    | 100      |
| 20) Methylene Chloride        | 2.85  | 84   | 110668   | 49.359  | ug/l    | 99       |
| 21) trans-1,2-Dichloroethene  | 3.17  | 96   | 103095   | 47.697  | ug/l    | 99       |
| 22) Diisopropyl ether         | 3.85  | 45   | 308302   | 51.682  | ug/l    | 97       |
| 23) Vinyl Acetate             | 3.81  | 43   | 1336752  | 259.392 | ug/l    | 99       |
| 24) 1,1-Dichloroethane        | 3.70  | 63   | 175639   | 50.937  | ug/l    | 100      |
| 25) 2-Butanone                | 4.67  | 43   | 390657   | 244.445 | ug/l    | 99       |
| 26) 2,2-Dichloropropane       | 4.59  | 77   | 128398   | 42.865  | ug/l    | 99       |
| 27) cis-1,2-Dichloroethene    | 4.59  | 96   | 122185   | 48.919  | ug/l    | 98       |
| 28) Bromochloromethane        | 5.02  | 49   | 78626    | 47.692  | ug/l    | 95       |
| 29) Tetrahydrofuran           | 5.13  | 42   | 252479   | 255.055 | ug/l    | 99       |
| 30) Chloroform                | 5.21  | 83   | 188377   | 50.775  | ug/l    | 98       |
| 31) Cyclohexane               | 5.58  | 56   | 147708   | 47.040  | ug/l    | 97       |
| 32) 1,1,1-Trichloroethane     | 5.49  | 97   | 163976   | 50.054  | ug/l    | 100      |
| 36) 1,1-Dichloropropene       | 5.80  | 75   | 131500   | 46.916  | ug/l    | 100      |
| 37) Ethyl Acetate             | 4.83  | 43   | 146939   | 50.959  | ug/l    | 99       |
| 38) Carbon Tetrachloride      | 5.78  | 117  | 144303   | 47.544  | ug/l    | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
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MMDadoda  
 7/2/2019 9:55:35 AM

Quant Time: Jul 02 07:21:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 166157   | 45.099  | ug/l  | 97       |
| 40) Benzene                    | 6.14  | 78   | 421367   | 48.254  | ug/l  | 98       |
| 41) Methacrylonitrile          | 5.04  | 41   | 79929    | 50.520  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 139472   | 52.470  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 241997   | 50.726  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 124759   | 47.747  | ug/l  | 97       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 108017   | 48.984  | ug/l  | 96       |
| 46) Dibromomethane             | 7.66  | 93   | 78142    | 49.390  | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 144723   | 49.913  | ug/l  | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 115656   | 52.156  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 7.74  | 88   | 60251    | 943.191 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 796932   | 261.191 | ug/l  | 98       |
| 52) Toluene                    | 8.78  | 92   | 279294   | 48.568  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 156614   | 48.178  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 169808   | 48.069  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 119265   | 50.288  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 184236   | 51.280  | ug/l  | 97       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 186458   | 50.647  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 409522   | 240.008 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 609107   | 253.650 | ug/l  | 97       |
| 60) Dibromochloromethane       | 9.58  | 129  | 131288   | 49.441  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 126854   | 49.554  | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 117738   | 45.517  | ug/l  | 98       |
| 65) Chlorobenzene              | 10.13 | 112  | 316071   | 48.681  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 119849   | 50.677  | ug/l  | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 542806   | 49.522  | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 417043   | 98.195  | ug/l  | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 205021   | 49.088  | ug/l  | 98       |
| 70) Styrene                    | 10.71 | 104  | 356666   | 50.920  | ug/l  | 99       |
| 71) Bromoform                  | 10.85 | 173  | 99786    | 48.519  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 547607   | 49.160  | ug/l  | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 216832   | 51.507  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 183199   | 49.660  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 152100m  | 50.794  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 150909   | 48.517  | ug/l  | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 614966   | 50.232  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 360457   | 49.445  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 458354   | 49.913  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 55730    | 43.418  | ug/l  | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 414815   | 50.005  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 460648   | 49.979  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 462327   | 50.111  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 535819   | 49.513  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 490497   | 49.001  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 260966   | 48.065  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 260231   | 47.080  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 416571   | 48.974  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 82469    | 47.647  | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 260211   | 48.222  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 38034    | 47.819  | ug/l  | 93       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
7/2/2019 9:55:35 AM

Quant Time: Jul 02 07:21:15 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 181562   | 48.518 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 86815    | 47.468 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 562459   | 48.910 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 183171   | 49.231 | ug/l  | 100      |

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

