

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070219\  
 Data File : VX010608.D  
 Acq On : 02 Jul 2019 11:44  
 Operator : JC/SP  
 Sample : VX0702WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0702WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/3/2019 9:29:38 AM

Quant Time: Jul 03 02:17:42 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      | 5.67  | 168  | 238200   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 353698   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 314598   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 157664   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 109187   | 48.89 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.78% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 106637   | 49.28 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.56% |      |
| 50) Toluene-d8            | 8.71   | 98  | 393093   | 47.48 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.96% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 138138   | 46.21 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.42% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 27444  | 16.572  | ug/l | 99     |
| 3) Chloromethane              | 1.33 | 50  | 29700  | 15.402  | ug/l | 96     |
| 4) Vinyl Chloride             | 1.41 | 62  | 34788  | 16.471  | ug/l | 100    |
| 5) Bromomethane               | 1.64 | 94  | 23928  | 23.254  | ug/l | 99     |
| 6) Chloroethane               | 1.73 | 64  | 23833  | 19.126  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 63082  | 18.840  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 23081  | 19.223  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 37326  | 18.396  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 44320  | 15.305  | ug/l | 96     |
| 11) Tert butyl alcohol        | 3.04 | 59  | 47814  | 81.818  | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 37170  | 18.003  | ug/l | 94     |
| 13) Acrolein                  | 2.29 | 56  | 45938  | 118.496 | ug/l | 100    |
| 14) Allyl chloride            | 2.73 | 41  | 53086  | 18.110  | ug/l | 98     |
| 15) Acrylonitrile             | 3.14 | 53  | 110398 | 95.414  | ug/l | 99     |
| 16) Acetone                   | 2.44 | 43  | 102318 | 91.413  | ug/l | 95     |
| 17) Carbon Disulfide          | 2.57 | 76  | 79816  | 14.409  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 42327  | 18.974  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 124000 | 19.091  | ug/l | 100    |
| 20) Methylene Chloride        | 2.85 | 84  | 42803  | 18.582  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 39100  | 17.608  | ug/l | 100    |
| 22) Diisopropyl ether         | 3.85 | 45  | 118014 | 19.256  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.81 | 43  | 506386 | 95.646  | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 66894  | 18.883  | ug/l | 99     |
| 25) 2-Butanone                | 4.67 | 43  | 155225 | 94.542  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 55459  | 18.022  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 47885  | 18.661  | ug/l | 99     |
| 28) Bromochloromethane        | 5.01 | 49  | 31907  | 18.838  | ug/l | 95     |
| 29) Tetrahydrofuran           | 5.13 | 42  | 94868  | 93.284  | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 71784  | 18.833  | ug/l | 97     |
| 31) Cyclohexane               | 5.58 | 56  | 57469  | 17.815  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 61917  | 18.397  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 49517  | 17.617  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.83 | 43  | 55455  | 19.179  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 53785  | 17.672  | ug/l | 97     |

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 Sample : VX0702WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0702WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/3/2019 9:29:38 AM

Quant Time: Jul 03 02:17:42 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   | 64259    | 17.393  | ug/l   | 99       |
| 40) Benzene                    | 6.14  | 78   | 161296   | 18.420  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 29579    | 18.644  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 53662    | 20.132  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 89744    | 18.759  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 47937    | 18.295  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 42473    | 19.207  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 29482    | 18.583  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 53051    | 18.246  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 41849    | 18.820  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 23475    | 366.467 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 296653   | 96.957  | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 106193   | 18.415  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 56024    | 17.187  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 63757    | 17.998  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 45570    | 19.161  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 65401    | 18.153  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 70631    | 19.132  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 162797   | 95.146  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 229957   | 95.495  | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.58  | 129  | 45539    | 17.102  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 47960    | 18.683  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.34  | 164  | 46805    | 18.394  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 119856   | 18.766  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 43530    | 18.711  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 201889   | 18.724  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 155027   | 37.106  | ug/l   | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 76615    | 18.647  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 127115   | 18.448  | ug/l   | 98       |
| 71) Bromoform                  | 10.85 | 173  | 33126    | 16.374  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 203832   | 19.072  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 77094    | 19.087  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 70815    | 20.007  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 57415m   | 19.984  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 54983    | 18.424  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 221486   | 18.856  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 131309   | 18.773  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 165103   | 18.739  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 19073    | 15.487  | ug/l   | 90       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 152676   | 19.183  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 167240   | 18.912  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 165934   | 18.745  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 197457   | 19.017  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 175738   | 18.298  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 96463    | 18.517  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 96705    | 18.235  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 149692   | 18.342  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 27871    | 16.783  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 97162    | 18.767  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 13143    | 17.223  | ug/l   | 93       |

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Sample : VX0702WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0702WBS01

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7/3/2019 9:29:38 AM

Quant Time: Jul 03 02:17:42 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  | 64549    | 17.978 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 31506    | 17.955 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 199313   | 18.064 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 66082    | 18.511 | ug/l  | 99       |

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

