

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX010720\  
 Data File : VX014445.D  
 Acq On : 07 Jan 2020 13:35  
 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

apatel  
 1/8/2020 9:15:44 AM

Quant Time: Jan 07 15:41:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:22:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 550915   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 821169   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 732994   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 363297   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |  |
|---------------------------|--------|-----|----------|------|-------|--|
| 33) 1,2-Dichloroethane-d4 | 0.00   | 65  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 35) Dibromofluoromethane  | 0.00   | 113 | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 50) Toluene-d8            | 0.00   | 98  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 62) 4-Bromofluorobenzene  | 0.00   | 95  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |

## Target Compounds

|                               |      |     |       |       |        | Qvalue |
|-------------------------------|------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 4786  | 0.899 | ug/l   | 89     |
| 3) Chloromethane              | 1.32 | 50  | 7926  | 1.175 | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 8045  | 1.106 | ug/l   | 94     |
| 6) Chloroethane               | 1.73 | 64  | 6155  | 1.407 | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 9834  | 1.123 | ug/l   | 95     |
| 8) Diethyl Ether              | 2.18 | 74  | 5066  | 1.244 | ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 6868  | 1.302 | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 6542  | 1.220 | ug/l # | 88     |
| 14) Allyl chloride            | 2.72 | 41  | 10735 | 1.126 | ug/l   | 97     |
| 15) Acrylonitrile             | 3.13 | 53  | 17418 | 5.499 | ug/l   | 93     |
| 16) Acetone                   | 2.43 | 43  | 21804 | 5.562 | ug/l   | 98     |
| 17) Carbon Disulfide          | 2.56 | 76  | 19078 | 1.214 | ug/l   | 96     |
| 18) Methyl Acetate            | 2.76 | 43  | 9113  | 1.095 | ug/l # | 75     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 18878 | 1.076 | ug/l   | 99     |
| 20) Methylene Chloride        | 2.85 | 84  | 7577  | 1.179 | ug/l   | 89     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 7585  | 1.289 | ug/l   | 96     |
| 22) Diisopropyl ether         | 3.84 | 45  | 19417 | 1.024 | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.81 | 43  | 73780 | 4.831 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 10529 | 0.998 | ug/l   | 93     |
| 25) 2-Butanone                | 4.66 | 43  | 25120 | 5.076 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 9851  | 1.193 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 8122  | 1.221 | ug/l   | 93     |
| 28) Bromochloromethane        | 5.00 | 49  | 5452  | 1.493 | ug/l # | 95     |
| 29) Tetrahydrofuran           | 5.12 | 42  | 13302 | 4.716 | ug/l   | 98     |
| 30) Chloroform                | 5.20 | 83  | 11012 | 1.102 | ug/l   | 89     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 8685  | 1.016 | ug/l # | 42     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 9084  | 1.195 | ug/l   | 88     |
| 37) Ethyl Acetate             | 4.82 | 43  | 9503  | 1.139 | ug/l # | 73     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 7307  | 1.054 | ug/l # | 80     |
| 39) Methylcyclohexane         | 7.46 | 83  | 10509 | 1.112 | ug/l   | 91     |
| 40) Benzene                   | 6.13 | 78  | 25363 | 1.089 | ug/l   | 95     |
| 41) Methacrylonitrile         | 5.04 | 41  | 4281  | 0.922 | ug/l # | 84     |
| 42) 1,2-Dichloroethane        | 6.19 | 62  | 9891  | 1.252 | ug/l   | 98     |
| 43) Isopropyl Acetate         | 6.44 | 43  | 13840 | 1.001 | ug/l # | 92     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:22:03 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 44) Trichloroethene            | 7.20  | 130  | 7820     | 1.204  | ug/l   | 77       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 6211     | 1.040  | ug/l # | 87       |
| 46) Dibromomethane             | 7.65  | 93   | 5239     | 1.323  | ug/l   | 88       |
| 47) Bromodichloromethane       | 7.89  | 83   | 7964     | 1.069  | ug/l   | 90       |
| 48) Methyl methacrylate        | 7.76  | 41   | 5935     | 0.877  | ug/l # | 66       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 3423     | 24.678 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 40899    | 4.724  | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 16675    | 1.130  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 9349     | 1.142  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 9282     | 1.018  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 6986     | 1.183  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 8269     | 0.894  | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 10626    | 1.074  | ug/l   | 90       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 14398    | 4.214  | ug/l   | 93       |
| 59) 2-Hexanone                 | 9.48  | 43   | 32335    | 4.669  | ug/l   | 97       |
| 60) Dibromochloromethane       | 9.58  | 129  | 5533     | 0.940  | ug/l   | 72       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 7035     | 1.165  | ug/l   | 96       |
| 64) Tetrachloroethene          | 9.33  | 164  | 8738     | 1.306  | ug/l   | 95       |
| 65) Chlorobenzene              | 10.14 | 112  | 19176    | 1.222  | ug/l   | 92       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 6209     | 1.108  | ug/l # | 66       |
| 67) Ethyl Benzene              | 10.25 | 91   | 29598    | 1.099  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 22991    | 2.216  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 10276    | 1.014  | ug/l   | 92       |
| 70) Styrene                    | 10.71 | 104  | 18484    | 1.078  | ug/l   | 96       |
| 71) Bromoform                  | 10.85 | 173  | 4723     | 1.045  | ug/l # | 96       |
| 73) Isopropylbenzene           | 11.01 | 105  | 28355    | 1.104  | ug/l   | 93       |
| 74) N-amyl acetate             | 10.89 | 43   | 11000    | 0.923  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 9484     | 1.082  | ug/l # | 91       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 8124m    | 1.054  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 8923     | 1.261  | ug/l   | 94       |
| 78) n-propylbenzene            | 11.35 | 91   | 32791    | 1.139  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 20451    | 1.172  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 22121    | 1.025  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 24572    | 1.210  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 21611    | 1.036  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 23188    | 1.074  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 26745    | 1.076  | ug/l   | 92       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 24503    | 1.076  | ug/l   | 90       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 15835    | 1.276  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 17675m   | 1.396  | ug/l   |          |
| 89) n-Butylbenzene             | 12.39 | 91   | 25072    | 1.284  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.59 | 117  | 4474     | 1.098  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 15610    | 1.254  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 2169     | 1.101  | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 13865    | 1.681  | ug/l   | 98       |
| 94) Hexachlorobutadiene        | 13.78 | 225  | 6509     | 1.644  | ug/l   | 90       |
| 95) Naphthalene                | 13.83 | 128  | 35011    | 1.451  | ug/l # | 94       |
| 96) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 12872    | 1.588  | ug/l   | 99       |

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Sample : VSTDICC001  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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

