

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\  
 Data File : VX017089.D  
 Acq On : 01 Jul 2020 11:50  
 Operator : JC/SP  
 Sample : VX0701WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0701WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 7/2/2020 9:16:00 AM

Quant Time: Jul 02 02:01:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 252574   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 380849   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 360178   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 192575   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.02   | 65  | 150817   | 48.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.88%  |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 122268   | 50.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.50% |      |
| 50) Toluene-d8            | 8.70   | 98  | 452399   | 50.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.56% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 173301   | 49.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.52%  |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 47106  | 19.278 | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 48262  | 16.317 | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 47433  | 17.285 | ug/l | 99     |
| 5) Bromomethane               | 1.63 | 94  | 32587  | 22.476 | ug/l | 97     |
| 6) Chloroethane               | 1.71 | 64  | 29015  | 17.902 | ug/l | 95     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 79287  | 19.536 | ug/l | 99     |
| 8) Diethyl Ether              | 2.17 | 74  | 27948  | 20.682 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 44235  | 18.185 | ug/l | 98     |
| 10) Methyl Iodide             | 2.49 | 142 | 53508  | 17.047 | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 52976  | 89.184 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.35 | 96  | 40744  | 16.305 | ug/l | 95     |
| 13) Acrolein                  | 2.27 | 56  | 32137  | 90.505 | ug/l | 99     |
| 14) Allyl chloride            | 2.71 | 41  | 79409  | 17.195 | ug/l | 98     |
| 15) Acrylonitrile             | 3.11 | 53  | 130100 | 91.108 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 105619 | 90.674 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 129360 | 18.566 | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 54659  | 17.975 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 158638 | 18.915 | ug/l | 98     |
| 20) Methylene Chloride        | 2.83 | 84  | 53527  | 19.560 | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 50205  | 18.104 | ug/l | 93     |
| 22) Diisopropyl ether         | 3.82 | 45  | 163187 | 19.092 | ug/l | 90     |
| 23) Vinyl Acetate             | 3.78 | 43  | 702360 | 95.627 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 89192  | 18.340 | ug/l | 100    |
| 25) 2-Butanone                | 4.63 | 43  | 173641 | 89.465 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 79866  | 18.495 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 56502  | 17.982 | ug/l | 100    |
| 28) Bromochloromethane        | 4.97 | 49  | 41434  | 17.508 | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 115508 | 90.073 | ug/l | 99     |
| 30) Chloroform                | 5.17 | 83  | 93905  | 18.836 | ug/l | 94     |
| 31) Cyclohexane               | 5.54 | 56  | 77262  | 18.379 | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 86180  | 18.770 | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 67257  | 18.685 | ug/l | 97     |
| 37) Ethyl Acetate             | 4.79 | 43  | 69090  | 18.918 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 78836  | 19.885 | ug/l | 99     |

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 Operator : JC/SP  
 Sample : VX0701WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0701WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 7/2/2020 9:16:00 AM

Quant Time: Jul 02 02:01:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 76800    | 19.177  | ug/l  | 98       |
| 40) Benzene                    | 6.11  | 78   | 201887   | 19.089  | ug/l  | 98       |
| 41) Methacrylonitrile          | 5.00  | 41   | 39795    | 19.360  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 77850    | 20.379  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.41  | 43   | 114051   | 18.793  | ug/l  | 100      |
| 44) Trichloroethene            | 7.18  | 130  | 59542    | 20.218  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 52914    | 19.480  | ug/l  | 100      |
| 46) Dibromomethane             | 7.63  | 93   | 37519    | 20.231  | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.87  | 83   | 75388    | 19.726  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.74  | 41   | 55931    | 19.399  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 24618    | 376.894 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 350289   | 96.831  | ug/l  | 100      |
| 52) Toluene                    | 8.76  | 92   | 129199   | 19.567  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 81717    | 19.379  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.41  | 75   | 87719    | 19.406  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 53603    | 19.869  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 74327    | 19.357  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 89638    | 19.636  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 181919   | 95.193  | ug/l  | 98       |
| 59) 2-Hexanone                 | 9.47  | 43   | 258023   | 97.662  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.56  | 129  | 62603    | 19.979  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 57723    | 19.906  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 60391    | 20.775  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.12 | 112  | 142238   | 19.134  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 56024    | 19.555  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 238715   | 19.229  | ug/l  | 97       |
| 68) m/p-Xylenes                | 10.34 | 106  | 189280   | 39.708  | ug/l  | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 88525    | 19.522  | ug/l  | 100      |
| 70) Styrene                    | 10.69 | 104  | 153446   | 19.871  | ug/l  | 99       |
| 71) Bromoform                  | 10.84 | 173  | 46332    | 20.394  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 237562   | 18.833  | ug/l  | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 97767    | 18.165  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 74843    | 18.863  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 73373m   | 19.376  | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 65069    | 18.769  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 270642   | 18.974  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 167357   | 19.386  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 207300   | 19.813  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 26727    | 18.277  | ug/l  | 94       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 200062   | 19.386  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 190950   | 18.591  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 208128   | 19.608  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 223605   | 18.521  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 218245   | 19.418  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 116335   | 18.477  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 119205   | 19.961  | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.37 | 91   | 180274   | 17.964  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 40952    | 18.477  | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 111433   | 18.934  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 16505    | 17.437  | ug/l  | 98       |

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Sample : VX0701WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0701WBSD01

Manual Integrations  
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7/2/2020 9:16:00 AM

Quant Time: Jul 02 02:01:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 29 17:10:38 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 74055    | 18.435 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 31215    | 20.973 | ug/l  | 95       |
| 95) Naphthalene            | 13.82 | 128  | 224579   | 18.389 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 74453    | 19.151 | ug/l  | 99       |

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

