

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\  
 Data File : VX004280.D  
 Acq On : 29 Aug 2018 09:36  
 Operator : JC/MD  
 Sample : VX0829WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0829WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/30/2018 1:38:33 PM

Quant Time: Aug 30 03:38:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 333962   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 480438   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 428694   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 266444   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 206404   | 47.42 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.84% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 176730   | 49.45 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.90% |      |
| 50) Toluene-d8            | 8.71   | 98  | 656524   | 48.66 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.32% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 246562   | 48.98 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.96% |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 73709  | 19.06  | ug/l | 97     |
| 3) Chloromethane              | 1.32 | 50  | 79291  | 18.73  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 84336  | 19.27  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 43647  | 18.98  | ug/l | 95     |
| 6) Chloroethane               | 1.72 | 64  | 59637  | 18.47  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 115188 | 19.21  | ug/l | 97     |
| 8) Diethyl Ether              | 2.18 | 74  | 51434  | 20.03  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 70994  | 18.90  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 64523  | 18.19  | ug/l | 97     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 96487  | 103.99 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 67127  | 18.97  | ug/l | 96     |
| 13) Acrolein                  | 2.29 | 56  | 18698  | 83.59  | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 126151 | 19.41  | ug/l | 98     |
| 15) Acrylonitrile             | 3.15 | 53  | 224339 | 97.63  | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 187633 | 100.78 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 170721 | 17.90  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 148435 | 22.98  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 236483 | 20.28  | ug/l | 98     |
| 20) Methylene Chloride        | 2.85 | 84  | 79385  | 18.95  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 73342  | 18.73  | ug/l | 94     |
| 22) Diisopropyl ether         | 3.87 | 45  | 235342 | 19.39  | ug/l | 94     |
| 23) Vinyl Acetate             | 3.82 | 43  | 920487 | 93.58  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 137928 | 19.50  | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 288865 | 97.30  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 106359 | 19.17  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 84702  | 19.07  | ug/l | 99     |
| 28) Bromochloromethane        | 5.01 | 49  | 59649  | 19.05  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.16 | 42  | 183743 | 98.25  | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 136500 | 19.25  | ug/l | 96     |
| 31) Cyclohexane               | 5.57 | 56  | 112242 | 18.39  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 115081 | 19.46  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 100553 | 18.62  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.86 | 43  | 104594 | 19.69  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 97607  | 19.21  | ug/l | 99     |

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 Operator : JC/MD  
 Sample : VX0829WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0829WBS01

Manual Integrations  
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MMDadoda  
 8/30/2018 1:38:33 PM

Quant Time: Aug 30 03:38:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 111982   | 18.16  | ug/l  | 97       |
| 40) Benzene                    | 6.14  | 78   | 312838   | 19.38  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.06  | 41   | 59441    | 19.30  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 107113   | 19.46  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 162174   | 19.87  | ug/l  | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 85587    | 19.16  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 79454    | 19.67  | ug/l  | 98       |
| 46) Dibromomethane             | 7.67  | 93   | 51682    | 19.22  | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 97875    | 19.56  | ug/l  | 100      |
| 48) Methyl methacrylate        | 7.77  | 41   | 85489    | 19.57  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 39914    | 402.51 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 563902   | 95.08  | ug/l  | 100      |
| 52) Toluene                    | 8.79  | 92   | 200453   | 19.84  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 108724   | 19.67  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 119714   | 19.88  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 82209    | 20.16  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 111167   | 20.02  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 136590   | 19.87  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 291704   | 102.55 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.50  | 43   | 424116   | 93.74  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 77798    | 19.58  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 83450    | 19.77  | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 86366    | 20.39  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 212082   | 19.71  | ug/l  | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 74179    | 19.99  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 348473   | 19.94  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 276511   | 40.47  | ug/l  | 96       |
| 69) o-Xylene                   | 10.70 | 106  | 138032   | 21.36  | ug/l  | 100      |
| 70) Styrene                    | 10.71 | 104  | 224441   | 21.45  | ug/l  | 99       |
| 71) Bromoform                  | 10.86 | 173  | 59934    | 20.04  | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 376797   | 21.53  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 136443   | 20.25  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 123818   | 20.22  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 112618m  | 20.78  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 101699   | 20.72  | ug/l  | 100      |
| 78) n-propylbenzene            | 11.36 | 91   | 424565   | 21.09  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 257581   | 20.79  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 309036   | 21.32  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 33514    | 20.07  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 293797   | 20.15  | ug/l  | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 308031   | 21.13  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 319586   | 21.48  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 362147   | 20.92  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 323127   | 20.83  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 181725   | 19.66  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 187007   | 19.19  | ug/l  | 98       |
| 89) n-Butylbenzene             | 12.39 | 91   | 236843   | 18.77  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 43930    | 20.26  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 171572   | 20.31  | ug/l  | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 20974    | 19.44  | ug/l  | 94       |

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Sample : VX0829WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0829WBS01

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MMDadoda  
8/30/2018 1:38:33 PM

Quant Time: Aug 30 03:38:16 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 05:39:44 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 120291   | 19.57 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 57300    | 19.96 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 384399   | 22.11 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 134632   | 20.69 | ug/l  | 98       |

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

