

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021119\  
 Data File : VX007460.D  
 Acq On : 11 Feb 2019 11:46  
 Operator : JC/SP  
 Sample : VX0211WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0211WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 2/12/2019 12:15:10 PM

Quant Time: Feb 12 00:21:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 466162   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 682707   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 624604   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 318395   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 249642   | 50.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.90% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 227496   | 51.21 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.42% |      |
| 50) Toluene-d8            | 8.71   | 98  | 834882   | 50.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.32% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 291548   | 48.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.90%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 105512  | 18.531  | ug/l | 100    |
| 3) Chloromethane              | 1.33 | 50  | 94796   | 18.054  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.41 | 62  | 100713  | 19.552  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 93290   | 18.002  | ug/l | 99     |
| 6) Chloroethane               | 1.73 | 64  | 61578   | 18.480  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 153913  | 19.101  | ug/l | 100    |
| 8) Diethyl Ether              | 2.19 | 74  | 58100   | 19.157  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 90060   | 18.789  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 122688  | 17.400  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 107601  | 105.081 | ug/l | 96     |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 82186   | 18.465  | ug/l | 96     |
| 13) Acrolein                  | 2.30 | 56  | 43978   | 91.588  | ug/l | 95     |
| 14) Allyl chloride            | 2.73 | 41  | 142564  | 19.658  | ug/l | 98     |
| 15) Acrylonitrile             | 3.15 | 53  | 252978  | 99.869  | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 240317  | 106.029 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 198773  | 18.475  | ug/l | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 134579  | 23.112  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 282228  | 19.572  | ug/l | 96     |
| 20) Methylene Chloride        | 2.86 | 84  | 91747   | 19.578  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 86648   | 18.275  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.87 | 45  | 261298  | 19.588  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.82 | 43  | 1082989 | 97.833  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 147833  | 19.297  | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 339522  | 105.261 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 114746  | 19.668  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 97582   | 18.843  | ug/l | 99     |
| 28) Bromochloromethane        | 5.02 | 49  | 71858   | 20.397  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 211094  | 104.057 | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 155072  | 19.399  | ug/l | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 125965  | 18.308  | ug/l | 94     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 133531  | 19.789  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 109041  | 17.801  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.85 | 43  | 120960  | 19.535  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 117717  | 19.809  | ug/l | 98     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 135640   | 18.302  | ug/l   | 98       |
| 40) Benzene                    | 6.14  | 78   | 344266   | 19.079  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.06  | 41   | 65611    | 19.770  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 117559   | 18.830  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 189080   | 19.783  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 102170   | 18.800  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 85348    | 18.878  | ug/l   | 98       |
| 46) Dibromomethane             | 7.66  | 93   | 60817    | 18.509  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 108791   | 19.536  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 98084    | 20.517  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 7.75  | 88   | 45189    | 419.658 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 639484   | 101.637 | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 220800   | 18.966  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 115110   | 19.244  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 130938   | 19.905  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 94248    | 19.421  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 128873   | 19.174  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 151786   | 19.668  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 349882   | 98.764  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 498132   | 101.740 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 95135    | 20.728  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 101550   | 19.760  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 108691   | 18.463  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 253268   | 18.582  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 90978    | 19.909  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 416878   | 18.993  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 323421   | 37.067  | ug/l   | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 160123   | 19.072  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 252189   | 18.521  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 68080    | 19.647  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 419798   | 19.402  | ug/l   | 98       |
| 74) N-amyl acetate             | 10.90 | 43   | 165327   | 19.755  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 140406   | 21.293  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 133136m  | 21.497  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 118289   | 19.404  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 466197   | 19.649  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 283034   | 19.660  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 344637   | 19.469  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 36215    | 20.774  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 316958   | 19.027  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 341079   | 19.462  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 357221   | 19.878  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 424316   | 20.004  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 373487   | 19.506  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 203115   | 18.565  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 206324   | 18.588  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 302295   | 18.353  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 57910    | 20.208  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 206232   | 18.941  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 27940    | 20.378  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 136104   | 18.536 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 66407    | 18.625 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 415055   | 19.329 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 137789   | 18.642 | ug/l  | 99       |

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

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