

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102218\  
 Data File : VX005468.D  
 Acq On : 22 Oct 2018 14:19  
 Operator : JC/MD  
 Sample : VX1022WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1022WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/23/2018 1:27:55 PM

Quant Time: Oct 23 01:42:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 246035   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 338959   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 294405   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 170557   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65   | 135616   | 49.66 | ug/l    | -0.01    |
| Spiked Amount               | 50.000 |      | Recovery | =     | 99.32%  |          |
| 35) Dibromofluoromethane    | 5.50   | 113  | 110658   | 49.29 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 98.58%  |          |
| 50) Toluene-d8              | 8.71   | 98   | 389122   | 50.49 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 100.98% |          |
| 62) 4-Bromofluorobenzene    | 11.14  | 95   | 148980   | 51.46 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 102.92% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 40845    | 21.233  | ug/l   | 96     |
| 3) Chloromethane              | 1.32 | 50   | 50898    | 18.260  | ug/l   | 95     |
| 4) Vinyl Chloride             | 1.40 | 62   | 48919    | 17.325  | ug/l   | 89     |
| 5) Bromomethane               | 1.64 | 94   | 32621    | 20.801  | ug/l   | 86     |
| 6) Chloroethane               | 1.71 | 64   | 34301    | 19.572  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 75569    | 20.055  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.19 | 74   | 29789    | 18.513  | ug/l   | 80     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 45084    | 20.729  | ug/l   | 95     |
| 10) Methyl Iodide             | 2.51 | 142  | 45488    | 20.614  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 81186    | 105.400 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 41354    | 19.191  | ug/l   | 86     |
| 13) Acrolein                  | 2.29 | 56   | 33430    | 66.425  | ug/l   | 93     |
| 14) Allyl chloride            | 2.73 | 41   | 95908    | 20.272  | ug/l   | 96     |
| 15) Acrylonitrile             | 3.15 | 53   | 177278   | 101.564 | ug/l   | 97     |
| 16) Acetone                   | 2.45 | 43   | 160880   | 101.900 | ug/l # | 86     |
| 17) Carbon Disulfide          | 2.56 | 76   | 114083   | 17.477  | ug/l   | 98     |
| 18) Methyl Acetate            | 2.78 | 43   | 99647    | 22.185  | ug/l   | 91     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 156690   | 20.646  | ug/l   | 100    |
| 20) Methylene Chloride        | 2.85 | 84   | 49526    | 20.764  | ug/l   | 87     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96   | 44731    | 18.731  | ug/l   | 94     |
| 22) Diisopropyl ether         | 3.86 | 45   | 177863   | 22.383  | ug/l # | 77     |
| 23) Vinyl Acetate             | 3.82 | 43   | 745683   | 107.363 | ug/l   | 95     |
| 24) 1,1-Dichloroethane        | 3.69 | 63   | 92005    | 20.202  | ug/l   | 97     |
| 25) 2-Butanone                | 4.71 | 43   | 234922   | 101.699 | ug/l # | 87     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 73703    | 21.639  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 49642    | 19.128  | ug/l   | 82     |
| 28) Bromochloromethane        | 5.01 | 49   | 46211    | 22.258  | ug/l   | 94     |
| 29) Tetrahydrofuran           | 5.15 | 42   | 157949   | 107.195 | ug/l   | 92     |
| 30) Chloroform                | 5.21 | 83   | 92262    | 21.826  | ug/l   | 95     |
| 31) Cyclohexane               | 5.57 | 56   | 72957    | 19.437  | ug/l # | 81     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 76805    | 20.882  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 59664    | 18.175  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.85 | 43   | 87543    | 20.736  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 63744    | 19.325  | ug/l   | 94     |

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 Operator : JC/MD  
 Sample : VX1022WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX1022WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/23/2018 1:27:55 PM

Quant Time: Oct 23 01:42:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 64657    | 18.198  | ug/l   | 91       |
| 40) Benzene                    | 6.15  | 78   | 182338   | 18.516  | ug/l   | 95       |
| 41) Methacrylonitrile          | 5.06  | 41   | 46285    | 20.450  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 67025    | 19.275  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 118110   | 21.002  | ug/l   | 95       |
| 44) Trichloroethene            | 7.21  | 130  | 47627    | 18.550  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 48205    | 19.955  | ug/l   | 100      |
| 46) Dibromomethane             | 7.66  | 93   | 30407    | 19.072  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 59656    | 20.229  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 58908    | 20.196  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 25620    | 380.826 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 411977   | 105.798 | ug/l   | 93       |
| 52) Toluene                    | 8.79  | 92   | 109021   | 20.236  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 65145    | 20.412  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 70850    | 20.488  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 46809    | 20.513  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 67985    | 20.437  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 77561    | 20.364  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 195729   | 104.913 | ug/l   | 94       |
| 59) 2-Hexanone                 | 9.49  | 43   | 328259   | 104.797 | ug/l   | 92       |
| 60) Dibromochloromethane       | 9.59  | 129  | 48704    | 20.648  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 48552    | 20.274  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.34  | 164  | 49846    | 21.031  | ug/l   | 95       |
| 65) Chlorobenzene              | 10.14 | 112  | 125245   | 20.000  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 46694    | 20.924  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 210149   | 20.642  | ug/l   | 96       |
| 68) m/p-Xylenes                | 10.36 | 106  | 163485   | 41.374  | ug/l   | 93       |
| 69) o-Xylene                   | 10.70 | 106  | 77645    | 20.375  | ug/l   | 95       |
| 70) Styrene                    | 10.71 | 104  | 131910   | 21.044  | ug/l   | 97       |
| 71) Bromoform                  | 10.86 | 173  | 39094    | 19.603  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 219437   | 21.643  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 101605   | 20.777  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 76408    | 19.977  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 72355m   | 21.871  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 59468    | 20.513  | ug/l   | 100      |
| 78) n-propylbenzene            | 11.36 | 91   | 253751   | 21.749  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 151511   | 21.204  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 185915   | 21.412  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 21426    | 19.678  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 179230   | 21.159  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 182768   | 20.787  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 191603   | 21.444  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 224601   | 21.586  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 202239   | 21.504  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 110274   | 20.356  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 112389   | 20.280  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.39 | 91   | 179430   | 21.013  | ug/l   | 97       |
| 90) Hexachloroethane           | 12.60 | 117  | 31360    | 19.349  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 111116   | 20.100  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 18342    | 19.660  | ug/l   | 95       |

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Operator : JC/MD  
Sample : VX1022WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1022WBS01

Manual Integrations  
APPROVED

MMDadoda  
10/23/2018 1:27:55 PM

Quant Time: Oct 23 01:42:20 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 12 11:28:43 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 83197    | 20.513 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 42991    | 20.070 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 246096   | 20.922 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 85763    | 20.666 | ug/l  | 99       |

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

