

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\  
 Data File : VX012859.D  
 Acq On : 08 Oct 2019 00:10  
 Operator : JC/SP  
 Sample : VX1007WBSD02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1007WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 10/8/2019 2:07:20 PM

Quant Time: Oct 08 12:51:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 173648   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 298827   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 266662   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 123173   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 119857   | 47.40 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.80%  |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 93572    | 52.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.16% |      |
| 50) Toluene-d8            | 8.71   | 98  | 353782   | 51.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.24% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 136776   | 50.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.52% |      |

## Target Compounds

|                               |      |     |        |        | Qvalue |     |
|-------------------------------|------|-----|--------|--------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 28811  | 14.748 | ug/l   | 95  |
| 3) Chloromethane              | 1.32 | 50  | 33121  | 14.765 | ug/l   | 100 |
| 4) Vinyl Chloride             | 1.40 | 62  | 35435  | 15.893 | ug/l   | 97  |
| 5) Bromomethane               | 1.63 | 94  | 16839  | 19.209 | ug/l   | 99  |
| 6) Chloroethane               | 1.72 | 64  | 23839  | 15.860 | ug/l   | 96  |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 52556  | 16.789 | ug/l   | 100 |
| 8) Diethyl Ether              | 2.18 | 74  | 22838  | 17.802 | ug/l   | 97  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 34759  | 18.230 | ug/l   | 94  |
| 10) Methyl Iodide             | 2.50 | 142 | 24720  | 16.041 | ug/l   | 92  |
| 11) Tert butyl alcohol        | 3.03 | 59  | 60008  | 94.998 | ug/l   | 98  |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 34486  | 18.471 | ug/l   | 81  |
| 13) Acrolein                  | 2.28 | 56  | 20793  | 66.905 | ug/l   | 98  |
| 14) Allyl chloride            | 2.72 | 41  | 63702  | 17.197 | ug/l   | 95  |
| 15) Acrylonitrile             | 3.13 | 53  | 117239 | 91.483 | ug/l   | 98  |
| 16) Acetone                   | 2.43 | 43  | 100722 | 75.201 | ug/l   | 98  |
| 17) Carbon Disulfide          | 2.56 | 76  | 80969  | 15.469 | ug/l   | 98  |
| 18) Methyl Acetate            | 2.76 | 43  | 61138  | 19.386 | ug/l   | 96  |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 131610 | 18.624 | ug/l   | 97  |
| 20) Methylene Chloride        | 2.85 | 84  | 41735  | 18.423 | ug/l   | 89  |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 37529  | 18.144 | ug/l   | 97  |
| 22) Diisopropyl ether         | 3.84 | 45  | 133348 | 18.631 | ug/l   | 97  |
| 23) Vinyl Acetate             | 3.80 | 43  | 552757 | 88.064 | ug/l   | 97  |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 70776  | 18.191 | ug/l   | 98  |
| 25) 2-Butanone                | 4.66 | 43  | 165089 | 85.963 | ug/l   | 96  |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 47897  | 13.842 | ug/l   | 97  |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 43793  | 18.247 | ug/l   | 93  |
| 28) Bromochloromethane        | 5.00 | 49  | 27214  | 19.264 | ug/l   | 97  |
| 29) Tetrahydrofuran           | 5.12 | 42  | 104727 | 89.469 | ug/l   | 94  |
| 30) Chloroform                | 5.20 | 83  | 72385  | 18.185 | ug/l   | 98  |
| 31) Cyclohexane               | 5.57 | 56  | 61797  | 17.557 | ug/l   | 97  |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 62719  | 17.779 | ug/l   | 98  |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 51277  | 17.802 | ug/l   | 97  |
| 37) Ethyl Acetate             | 4.83 | 43  | 61999  | 18.411 | ug/l   | 97  |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 51823  | 17.711 | ug/l   | 99  |

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Instrument :  
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 ClientSampleID :  
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 10/8/2019 2:07:20 PM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 61521    | 17.742  | ug/l   | 93       |
| 40) Benzene                    | 6.13  | 78   | 159456   | 18.815  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.03  | 41   | 33957    | 17.973  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 58331    | 18.125  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 102177   | 18.144  | ug/l   | 96       |
| 44) Trichloroethene            | 7.21  | 130  | 40398    | 18.646  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 41861    | 19.293  | ug/l   | 96       |
| 46) Dibromomethane             | 7.65  | 93   | 27510    | 18.622  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 54222    | 18.364  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.76  | 41   | 49825    | 18.452  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 23332    | 380.953 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 325470   | 93.628  | ug/l   | 95       |
| 52) Toluene                    | 8.78  | 92   | 101719   | 19.097  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 56019    | 17.148  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 63211    | 17.722  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 41292    | 19.499  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 67835    | 19.067  | ug/l   | 91       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 71390    | 19.262  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 146634   | 91.821  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 244678   | 91.956  | ug/l   | 95       |
| 60) Dibromochloromethane       | 9.58  | 129  | 40853    | 19.057  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 43020    | 19.520  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.33  | 164  | 37854    | 20.360  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 105366   | 18.764  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 38371    | 18.859  | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.25 | 91   | 192295   | 18.881  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.35 | 106  | 142905   | 37.456  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 70135    | 18.998  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 119992   | 19.388  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 26657    | 18.816  | ug/l # | 97       |
| 73) Isopropylbenzene           | 11.01 | 105  | 189451   | 18.885  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.89 | 43   | 84776    | 17.713  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 62737    | 18.883  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 59574m   | 18.284  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 42962    | 18.922  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 209286   | 18.530  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 129014   | 18.311  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 160191   | 19.042  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 17214    | 15.141  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 150333   | 18.718  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 150681   | 18.568  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 162526   | 19.151  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 179461   | 19.013  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 162052   | 19.027  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 78789    | 19.282  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 79107    | 19.159  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.39 | 91   | 134614   | 17.937  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 27001    | 17.783  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 78411    | 19.168  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 14872    | 17.894  | ug/l   | 100      |

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ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 48735    | 19.535 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 20762    | 19.345 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 178798   | 19.809 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 50742    | 20.304 | ug/l  | 97       |

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

