

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091520\  
 Data File : VX018404.D  
 Acq On : 15 Sep 2020 14:15  
 Operator : JC/SP  
 Sample : VX0915WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0915WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 9/16/2020 11:45:09 AM

Quant Time: Sep 16 03:56:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 407302   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 628066   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 594869   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 318021   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 278026   | 49.17 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.34%  |       |
| 35) Dibromofluoromethane  | 5.46   | 113 | 214961   | 50.25 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.50% |       |
| 50) Toluene-d8            | 8.70   | 98  | 740655   | 46.49 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.98%  |       |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 287271   | 45.83 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.66%  |       |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 77923   | 15.714  | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 76672   | 14.665  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 77962   | 14.980  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 57844   | 23.043  | ug/l | 97     |
| 6) Chloroethane               | 1.71 | 64  | 48115   | 17.213  | ug/l | 93     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 138511  | 19.518  | ug/l | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 44689   | 18.569  | ug/l | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 71543   | 18.648  | ug/l | 96     |
| 10) Methyl Iodide             | 2.49 | 142 | 71447   | 20.852  | ug/l | 93     |
| 11) Tert butyl alcohol        | 3.00 | 59  | 87931   | 79.980  | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 65787   | 16.528  | ug/l | 97     |
| 13) Acrolein                  | 2.27 | 56  | 50100   | 109.901 | ug/l | 96     |
| 14) Allyl chloride            | 2.71 | 41  | 124964  | 17.475  | ug/l | 100    |
| 15) Acrylonitrile             | 3.11 | 53  | 208411  | 83.568  | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 186569  | 84.677  | ug/l | 97     |
| 17) Carbon Disulfide          | 2.55 | 76  | 171872  | 14.284  | ug/l | 98     |
| 18) Methyl Acetate            | 2.75 | 43  | 107984  | 20.310  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 254238  | 18.625  | ug/l | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 79589   | 16.893  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 71779   | 16.277  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.82 | 45  | 251324  | 17.806  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.78 | 43  | 1084829 | 86.378  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 141274  | 17.583  | ug/l | 99     |
| 25) 2-Butanone                | 4.63 | 43  | 295719  | 81.667  | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 130306  | 19.933  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 86317   | 16.988  | ug/l | 99     |
| 28) Bromochloromethane        | 4.98 | 49  | 71346   | 18.397  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 178355  | 77.375  | ug/l | 97     |
| 30) Chloroform                | 5.17 | 83  | 151955  | 18.265  | ug/l | 96     |
| 31) Cyclohexane               | 5.55 | 56  | 108029  | 15.962  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 141003  | 18.469  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 102548  | 17.702  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 111905  | 16.632  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 128869  | 19.740  | ug/l | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091520\  
 Data File : VX018404.D  
 Acq On : 15 Sep 2020 14:15  
 Operator : JC/SP  
 Sample : VX0915WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0915WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 9/16/2020 11:45:09 AM

Quant Time: Sep 16 03:56:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 107521   | 16.974  | ug/l   | 96       |
| 40) Benzene                    | 6.11  | 78   | 302216   | 17.755  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.99  | 41   | 62938    | 17.037  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 132068   | 20.250  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 188504   | 17.346  | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 86007    | 17.882  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 84799    | 18.484  | ug/l   | 99       |
| 46) Dibromomethane             | 7.63  | 93   | 58696    | 18.194  | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.87  | 83   | 125054   | 19.413  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.74  | 41   | 88574    | 16.373  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 30205    | 308.234 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 582008   | 86.701  | ug/l   | 99       |
| 52) Toluene                    | 8.76  | 92   | 193516   | 17.929  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 134364   | 18.820  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.41  | 75   | 139129   | 18.396  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 85786    | 18.635  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 119657   | 17.485  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 138400   | 18.228  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 297135   | 96.520  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.47  | 43   | 435087   | 85.239  | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.56  | 129  | 101493   | 18.794  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 90224    | 18.053  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 85333    | 19.521  | ug/l   | 92       |
| 65) Chlorobenzene              | 10.12 | 112  | 222327   | 18.713  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 89838    | 19.185  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 365125   | 18.071  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 277504   | 36.798  | ug/l   | 98       |
| 69) o-Xylene                   | 10.68 | 106  | 130718   | 17.881  | ug/l   | 97       |
| 70) Styrene                    | 10.70 | 104  | 229198   | 18.410  | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 75705    | 18.954  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 362286   | 17.271  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 153903   | 15.463  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 125964   | 17.022  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 118361m  | 16.731  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 97725    | 16.854  | ug/l   | 100      |
| 78) n-propylbenzene            | 11.34 | 91   | 408038   | 17.131  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 253242   | 17.209  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 313951   | 18.213  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 42661    | 16.287  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 302355   | 17.283  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 302847   | 17.802  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 321951   | 18.268  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 353859   | 18.292  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 332816   | 18.729  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 179188   | 17.601  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 183381   | 17.990  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 291736   | 17.987  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 67349    | 19.264  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 177568   | 18.529  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 29399    | 15.889  | ug/l   | 94       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091520\  
Data File : VX018404.D  
Acq On : 15 Sep 2020 14:15  
Operator : JC/SP  
Sample : VX0915WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0915WBSD01

Manual Integrations  
APPROVED

MMDadoda  
9/16/2020 11:45:09 AM

Quant Time: Sep 16 03:56:19 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 113929   | 17.828 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 52791    | 20.944 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 352352   | 16.754 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 119432   | 18.915 | ug/l  | 93       |

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

