

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061118\  
 Data File : VX002442.D  
 Acq On : 11 Jun 2018 14:55  
 Operator : JC/MD  
 Sample : VX0611WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0611WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 6/12/2018 4:50:41 PM

Quant Time: Jun 12 02:38:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 274470   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 401059   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 387655   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 240539   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 202126   | 51.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.22% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 155932   | 49.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.88%  |      |
| 50) Toluene-d8            | 8.72   | 98  | 587368   | 48.59 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.18%  |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 222821   | 47.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.60%  |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 50130  | 17.57  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 57863  | 15.73  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.41 | 62  | 66741  | 18.56  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 38542  | 16.72  | ug/l | 98     |
| 6) Chloroethane               | 1.73 | 64  | 45506  | 19.56  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 113496 | 20.72  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 42212  | 20.26  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 63688  | 21.54  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 55433  | 13.33  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 84822  | 93.02  | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 56423  | 19.31  | ug/l | 98     |
| 13) Acrolein                  | 2.30 | 56  | 35330  | 84.19  | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 115227 | 18.17  | ug/l | 98     |
| 15) Acrylonitrile             | 3.15 | 53  | 178707 | 101.22 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 205096 | 110.83 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 129432 | 16.81  | ug/l | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 87570  | 20.69  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 222767 | 20.48  | ug/l | 100    |
| 20) Methylene Chloride        | 2.86 | 84  | 66266  | 19.68  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 61130  | 18.97  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.88 | 45  | 205577 | 18.47  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.83 | 43  | 889549 | 86.54  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 123276 | 19.67  | ug/l | 99     |
| 25) 2-Butanone                | 4.71 | 43  | 247198 | 91.86  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 86421  | 17.64  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 61423  | 17.53  | ug/l | 98     |
| 28) Bromochloromethane        | 5.03 | 49  | 63681  | 21.89  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.17 | 42  | 150604 | 86.80  | ug/l | 99     |
| 30) Chloroform                | 5.22 | 83  | 110526 | 18.28  | ug/l | 97     |
| 31) Cyclohexane               | 5.58 | 56  | 90089  | 18.18  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 95353  | 18.59  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 77668  | 18.42  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.87 | 43  | 94552  | 18.65  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 81324  | 18.44  | ug/l | 97     |

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 Data File : VX002442.D  
 Acq On : 11 Jun 2018 14:55  
 Operator : JC/MD  
 Sample : VX0611WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0611WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 6/12/2018 4:50:41 PM

Quant Time: Jun 12 02:38:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 93235    | 18.07  | ug/l   | 99       |
| 40) Benzene                    | 6.15  | 78   | 233044   | 18.03  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.07  | 41   | 52112    | 17.95  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 94851    | 18.47  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.47  | 43   | 153668   | 17.84  | ug/l   | 99       |
| 44) Trichloroethene            | 7.22  | 130  | 65387    | 18.22  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 64247    | 18.41  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 42943    | 18.15  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 77602    | 18.14  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.78  | 41   | 78347    | 18.11  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 7.76  | 88   | 30175    | 373.05 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 502151   | 93.63  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 154005   | 18.73  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 91341    | 17.80  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 84484    | 17.45  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 63466    | 18.77  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 96820    | 17.93  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 106202   | 18.72  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 250130   | 100.10 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.50  | 43   | 390062   | 94.16  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 62207    | 18.29  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 65387    | 18.54  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 70076    | 17.53  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 177403   | 18.39  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 62835    | 17.99  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.26 | 91   | 301297   | 18.66  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 234453   | 37.36  | ug/l   | 98       |
| 69) o-Xylene                   | 10.70 | 106  | 114075   | 18.27  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 190018   | 18.61  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 45328    | 16.95  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 313930   | 18.76  | ug/l   | 99       |
| 74) N-amyl acetate             | 6.47  | 43   | 153668   | 17.04  | ug/l # | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 94892    | 18.03  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 82664m   | 15.66  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 83769    | 17.83  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.37 | 91   | 359642   | 19.34  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 210192   | 17.90  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 263455   | 18.36  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 23898    | 15.87  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 250406   | 18.47  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 264007   | 18.89  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 272991   | 18.48  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 319537   | 19.50  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 290436   | 19.46  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 153309   | 18.25  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 158521   | 18.31  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 252791   | 20.20  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 41086    | 17.25  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 156691   | 18.03  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 19588    | 17.02  | ug/l   | 98       |

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Acq On : 11 Jun 2018 14:55  
Operator : JC/MD  
Sample : VX0611WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0611WBSD01

Manual Integrations  
APPROVED

MMDadoda  
6/12/2018 4:50:41 PM

Quant Time: Jun 12 02:38:12 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 115181   | 18.90 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 60423    | 20.07 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 326593   | 18.65 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 116568   | 18.76 | ug/l  | 99       |

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

