

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052518\  
 Data File : VX001970.D  
 Acq On : 25 May 2018 12:10  
 Operator : JC/MD  
 Sample : VX0525WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0525WBS01

Manual Integrations  
 APPROVED

apatel  
 6/4/2018 2:35:19 PM

Quant Time: May 26 01:45:54 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 13:09:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 278636   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 389747   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 351880   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 229735   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 237758   | 47.74 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.48% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 185899   | 47.70 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.40% |      |
| 50) Toluene-d8            | 8.72   | 98  | 681230   | 48.28 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.56% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 259596   | 47.02 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.04% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 69146   | 18.550  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 82259   | 19.188  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 82066   | 19.825  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 51725   | 26.698  | ug/l | 100    |
| 6) Chloroethane               | 1.72 | 64  | 49825   | 20.418  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 129143  | 20.774  | ug/l | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 48783   | 21.628  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 71527   | 20.620  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 84182   | 17.936  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.08 | 59  | 109512  | 112.014 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 64317   | 19.804  | ug/l | 97     |
| 13) Acrolein                  | 2.30 | 56  | 41142   | 97.330  | ug/l | 96     |
| 14) Allyl chloride            | 2.73 | 41  | 143533  | 21.054  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 209548  | 104.230 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 218407  | 113.625 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 188357  | 20.152  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 106484  | 22.368  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 255925  | 20.951  | ug/l | 98     |
| 20) Methylene Chloride        | 2.86 | 84  | 76693   | 22.114  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 69884   | 21.192  | ug/l | 97     |
| 22) Diisopropyl ether         | 3.88 | 45  | 273533  | 19.726  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.83 | 43  | 1206012 | 104.897 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 138736  | 21.062  | ug/l | 100    |
| 25) 2-Butanone                | 4.72 | 43  | 342314  | 97.165  | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 129940  | 19.489  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 81971   | 19.356  | ug/l | 94     |
| 28) Bromochloromethane        | 5.03 | 49  | 61529   | 21.046  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.17 | 42  | 222753  | 97.182  | ug/l | 99     |
| 30) Chloroform                | 5.22 | 83  | 139961  | 18.860  | ug/l | 97     |
| 31) Cyclohexane               | 5.58 | 56  | 124780  | 18.182  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 131340  | 18.984  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 100933  | 18.618  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.87 | 43  | 130418  | 18.453  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 117496  | 18.586  | ug/l | 98     |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
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apatel  
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Quant Time: May 26 01:45:54 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 13:09:03 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 125599   | 18.858  | ug/l   | 98       |
| 40) Benzene                    | 6.15  | 78   | 303598   | 19.115  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 74548    | 19.148  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.21  | 62   | 118451   | 18.671  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.48  | 43   | 227411   | 19.311  | ug/l   | 99       |
| 44) Trichloroethene            | 7.22  | 130  | 88756    | 19.177  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 83224    | 19.295  | ug/l   | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 55492    | 19.432  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 113618   | 18.660  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.79  | 41   | 113415   | 18.923  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 42601    | 403.345 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 699824   | 98.581  | ug/l   | 98       |
| 52) Toluene                    | 8.79  | 92   | 193941   | 19.187  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 133830   | 19.083  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 130164   | 19.047  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 79172    | 18.750  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 134719   | 18.549  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 132692   | 19.076  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 285890   | 88.811  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.50  | 43   | 544039   | 99.390  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 94063    | 18.808  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 83707    | 18.893  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 97332    | 19.292  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 216431   | 19.414  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 85788    | 19.056  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 376146   | 19.419  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.37 | 106  | 288903   | 39.018  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 141861   | 19.188  | ug/l   | 99       |
| 70) Styrene                    | 10.72 | 104  | 238062   | 19.416  | ug/l   | 99       |
| 71) Bromoform                  | 10.87 | 173  | 78208    | 18.321  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 384441   | 19.761  | ug/l   | 99       |
| 74) N-amyl acetate             | 6.48  | 43   | 227411   | 20.684  | ug/l # | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 114885   | 20.854  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 123562m  | 22.392  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 101395   | 19.645  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.37 | 91   | 423021   | 19.415  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 257168   | 20.139  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 322129   | 19.376  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 42350    | 18.446  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 299505   | 19.489  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 316813   | 19.419  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 332690   | 19.364  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 383831   | 19.572  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 343698   | 19.585  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 177786   | 19.233  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 177579   | 19.216  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.40 | 91   | 286894   | 19.293  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 64954    | 18.764  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 183666   | 19.501  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 31770    | 18.368  | ug/l   | 99       |

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ALS Vial : 5 Sample Multiplier: 1

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MSVOA\_X  
ClientSampleId :  
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apatel  
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Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 24 13:09:03 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 128749   | 19.117 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 69193    | 19.100 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 405324   | 19.535 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 134301   | 19.273 | ug/l  | 99       |

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

