

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX101218\  
 Data File : VX005286.D  
 Acq On : 12 Oct 2018 10:58  
 Operator : JC/MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

MMDadoda  
 10/17/2018 9:04:41 AM

Quant Time: Oct 12 10:19:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 10:54:49 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 288410   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 394031   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 351617   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 226550   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 468111   | 145.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 290.66% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 385445   | 147.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 294.26% |      |
| 50) Toluene-d8            | 8.72   | 98  | 1343944  | 150.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 300.00% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 561107   | 171.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 342.98% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 315149  | 137.872 | ug/l   | 99     |
| 3) Chloromethane              | 1.32 | 50  | 474628  | 144.345 | ug/l   | 90     |
| 4) Vinyl Chloride             | 1.40 | 62  | 484406  | 145.637 | ug/l   | 91     |
| 5) Bromomethane               | 1.64 | 94  | 287069  | 138.051 | ug/l   | 97     |
| 6) Chloroethane               | 1.70 | 64  | 234669  | 114.227 | ug/l   | 94     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 619251  | 138.384 | ug/l   | 94     |
| 8) Diethyl Ether              | 2.19 | 74  | 255832  | 133.081 | ug/l   | 86     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 357017  | 138.200 | ug/l   | 98     |
| 10) Methyl Iodide             | 2.50 | 142 | 428039  | 174.082 | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.12 | 59  | 747812  | 850.378 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 370550  | 146.051 | ug/l   | 96     |
| 13) Acrolein                  | 2.29 | 56  | 431562  | 701.470 | ug/l   | 94     |
| 14) Allyl chloride            | 2.72 | 41  | 748965  | 132.410 | ug/l   | 95     |
| 15) Acrylonitrile             | 3.15 | 53  | 1443737 | 697.349 | ug/l   | 100    |
| 16) Acetone                   | 2.46 | 43  | 1249049 | 661.645 | ug/l   | 96     |
| 17) Carbon Disulfide          | 2.56 | 76  | 1078825 | 139.311 | ug/l   | 99     |
| 18) Methyl Acetate            | 2.79 | 43  | 727151  | 135.946 | ug/l   | 92     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 1251269 | 138.917 | ug/l   | 96     |
| 20) Methylene Chloride        | 2.85 | 84  | 395977  | 129.066 | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 393805  | 138.950 | ug/l # | 85     |
| 22) Diisopropyl ether         | 3.88 | 45  | 1346603 | 143.522 | ug/l   | 90     |
| 23) Vinyl Acetate             | 3.82 | 43  | 6046174 | 741.167 | ug/l   | 95     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 783109  | 146.045 | ug/l   | 96     |
| 25) 2-Butanone                | 4.72 | 43  | 2021326 | 745.773 | ug/l # | 85     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 544727  | 134.009 | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 434878  | 141.612 | ug/l   | 96     |
| 28) Bromochloromethane        | 5.02 | 49  | 323144  | 129.799 | ug/l   | 91     |
| 29) Tetrahydrofuran           | 5.17 | 42  | 1256411 | 723.048 | ug/l   | 93     |
| 30) Chloroform                | 5.21 | 83  | 713889  | 142.940 | ug/l   | 86     |
| 31) Cyclohexane               | 5.57 | 56  | 653868  | 148.328 | ug/l   | 90     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 614634  | 141.153 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 577816  | 151.699 | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.86 | 43  | 690433  | 138.957 | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 560056  | 145.296 | ug/l   | 91     |

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 Data File : VX005286.D  
 Acq On : 12 Oct 2018 10:58  
 Operator : JC/MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDICC150

Manual Integrations  
 APPROVED

MMDadoda  
 10/17/2018 9:04:41 AM

Quant Time: Oct 12 10:19:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 10:54:49 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 659127   | 161.654  | ug/l  | 92       |
| 40) Benzene                    | 6.13  | 78   | 1600568  | 137.942  | ug/l  | 96       |
| 41) Methacrylonitrile          | 5.07  | 41   | 388367   | 147.140  | ug/l  | 96       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 548812   | 133.243  | ug/l  | 96       |
| 43) Isopropyl Acetate          | 6.47  | 43   | 999683   | 153.512  | ug/l  | 97       |
| 44) Trichloroethene            | 7.21  | 130  | 434940   | 129.619  | ug/l  | 91       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 413690   | 146.795  | ug/l  | 93       |
| 46) Dibromomethane             | 7.66  | 93   | 253446   | 134.374  | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 506413   | 147.272  | ug/l  | 97       |
| 48) Methyl methacrylate        | 7.78  | 41   | 543967   | 162.693  | ug/l  | 93       |
| 49) 1,4-Dioxane                | 7.77  | 88   | 258478   | 3373.748 | ug/l  | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 3690074  | 829.609  | ug/l  | 96       |
| 52) Toluene                    | 8.79  | 92   | 942833   | 150.651  | ug/l  | 97       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 611915   | 168.285  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 632142   | 158.786  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 387231   | 145.197  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 671521   | 179.303  | ug/l  | 96       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 647374   | 145.480  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 1723852  | 804.482  | ug/l  | 95       |
| 59) 2-Hexanone                 | 9.51  | 43   | 3090888  | 871.831  | ug/l  | 95       |
| 60) Dibromochloromethane       | 9.59  | 129  | 439946   | 162.712  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 413870   | 148.399  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 396693   | 138.321  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 1091535  | 145.155  | ug/l  | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 410748   | 154.956  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 1890789  | 156.657  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 1474002  | 314.924  | ug/l  | 96       |
| 69) o-Xylene                   | 10.70 | 106  | 721660   | 160.385  | ug/l  | 97       |
| 70) Styrene                    | 10.71 | 104  | 1246039  | 170.175  | ug/l  | 97       |
| 71) Bromoform                  | 10.86 | 173  | 426834   | 186.466  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 1957857  | 144.483  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 1083103  | 170.548  | ug/l  | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 751331   | 147.472  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 644604m  | 134.821  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 549792   | 141.412  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 2333319  | 150.670  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 1401567  | 147.209  | ug/l  | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1751876  | 152.287  | ug/l  | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 250137   | 178.415  | ug/l  | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 1683417  | 149.544  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 1803165  | 155.306  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 1820805  | 154.116  | ug/l  | 98       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 2128709  | 154.849  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 1957762  | 158.137  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 1068882  | 148.258  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 1089386  | 147.595  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 1805104  | 161.112  | ug/l  | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 348649   | 164.566  | ug/l  | 95       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 1089682  | 148.081  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 189287   | 153.302  | ug/l  | 99       |

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Acq On : 12 Oct 2018 10:58  
Operator : JC/MD  
Sample : VSTDICC150  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

MMDadoda  
10/17/2018 9:04:41 AM

Quant Time: Oct 12 10:19:22 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 12 10:54:49 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 841248   | 157.445 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 415205   | 145.137 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 2498225  | 162.036 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 829543   | 150.588 | ug/l  | 99       |

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

