

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052418\  
 Data File : VX001938.D  
 Acq On : 24 May 2018 11:46  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 5/25/2018 2:25:51 PM

Quant Time: May 24 12:55:59 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 12:37:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 319823   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 450219   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 415838   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 280263   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 282022     | 50.00   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.00% |       |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 219400     | 50.00   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.00% |       |          |
| 50) Toluene-d8              | 8.72  | 98   | 809831     | 50.00   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.00% |       |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 317024     | 50.00   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.00% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 207926   | 50.00  | ug/l  | 100    |
| 3) Chloromethane              | 1.32 | 50   | 236872   | 50.00  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.40 | 62   | 228667   | 50.00  | ug/l  | 100    |
| 5) Bromomethane               | 1.64 | 94   | 110166   | 50.00  | ug/l  | 100    |
| 6) Chloroethane               | 1.72 | 64   | 134899   | 50.00  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 345086   | 50.00  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.19 | 74   | 126546   | 50.00  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 189509   | 50.00  | ug/l  | 100    |
| 10) Methyl Iodide             | 2.51 | 142  | 292200   | 50.00  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 3.09 | 59   | 277851   | 250.00 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 176732   | 50.00  | ug/l  | 100    |
| 13) Acrolein                  | 2.30 | 56   | 110166   | 250.00 | ug/l  | 100    |
| 14) Allyl chloride            | 2.73 | 41   | 380422   | 50.00  | ug/l  | 100    |
| 15) Acrylonitrile             | 3.15 | 53   | 569511   | 250.00 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 533303   | 250.00 | ug/l  | 100    |
| 17) Carbon Disulfide          | 2.57 | 76   | 516722   | 50.00  | ug/l  | 100    |
| 18) Methyl Acetate            | 2.78 | 43   | 275571   | 50.00  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 3.21 | 73   | 681259   | 50.00  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.86 | 84   | 197916   | 50.00  | ug/l  | 100    |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 190073   | 50.00  | ug/l  | 100    |
| 22) Diisopropyl ether         | 3.88 | 45   | 798189   | 50.00  | ug/l  | 100    |
| 23) Vinyl Acetate             | 3.83 | 43   | 3245097  | 250.00 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 367743   | 50.00  | ug/l  | 100    |
| 25) 2-Butanone                | 4.72 | 43   | 1005986  | 250.00 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 364654   | 50.00  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 236159   | 50.00  | ug/l  | 100    |
| 28) Bromochloromethane        | 5.03 | 49   | 167517   | 50.00  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 5.18 | 42   | 650162   | 250.00 | ug/l  | 100    |
| 30) Chloroform                | 5.22 | 83   | 406860   | 50.00  | ug/l  | 100    |
| 31) Cyclohexane               | 5.57 | 56   | 376191   | 50.00  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 385236   | 50.00  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 300263   | 50.00  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.87 | 43   | 397323   | 50.00  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 350252   | 50.00  | ug/l  | 100    |

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 VSTDICCC050

Manual Integrations  
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 5/25/2018 2:25:51 PM

Quant Time: May 24 12:55:59 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 12:37:57 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 366055   | 50.00   | ug/l  | 100      |
| 40) Benzene                    | 6.15  | 78   | 892636   | 50.00   | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 220873   | 50.00   | ug/l  | 100      |
| 42) 1,2-Dichloroethane         | 6.21  | 62   | 348451   | 50.00   | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.48  | 43   | 665474   | 50.00   | ug/l  | 100      |
| 44) Trichloroethene            | 7.22  | 130  | 257747   | 50.00   | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 237924   | 50.00   | ug/l  | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 160572   | 50.00   | ug/l  | 100      |
| 47) Bromodichloromethane       | 7.90  | 83   | 337495   | 50.00   | ug/l  | 100      |
| 48) Methyl methacrylate        | 7.79  | 41   | 336265   | 50.00   | ug/l  | 100      |
| 49) 1,4-Dioxane                | 7.76  | 88   | 121233   | 1000.00 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 2012306  | 250.00  | ug/l  | 100      |
| 52) Toluene                    | 8.79  | 92   | 564016   | 50.00   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 398682   | 50.00   | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 385515   | 50.00   | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 230996   | 50.00   | ug/l  | 100      |
| 56) Ethyl methacrylate         | 9.19  | 69   | 397827   | 50.00   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 387387   | 50.00   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 897011   | 250.00  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.51  | 43   | 1557394  | 250.00  | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 281801   | 50.00   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 247864   | 50.00   | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 286168   | 50.00   | ug/l  | 100      |
| 65) Chlorobenzene              | 10.15 | 112  | 632980   | 50.00   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 253694   | 50.00   | ug/l  | 100      |
| 67) Ethyl Benzene              | 10.26 | 91   | 1111394  | 50.00   | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.37 | 106  | 845817   | 100.00  | ug/l  | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 419007   | 50.00   | ug/l  | 100      |
| 70) Styrene                    | 10.72 | 104  | 703600   | 50.00   | ug/l  | 100      |
| 71) Bromoform                  | 10.87 | 173  | 246897   | 50.00   | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 1130677  | 50.00   | ug/l  | 100      |
| 74) N-amyl acetate             | 6.48  | 43   | 665474   | 50.00   | ug/l  | # 100    |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 330418   | 50.00   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 309505m  | 50.00   | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 300649   | 50.00   | ug/l  | 100      |
| 78) n-propylbenzene            | 11.37 | 91   | 1283286  | 50.00   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 768797   | 50.00   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 963990   | 50.00   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 130137   | 50.00   | ug/l  | 100      |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 896765   | 50.00   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 935422   | 50.00   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 989360   | 50.00   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.95 | 105  | 1145958  | 50.00   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 1028667  | 50.00   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 536560   | 50.00   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 539880   | 50.00   | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 893634   | 50.00   | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 201572   | 50.00   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 550639   | 50.00   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 100728   | 50.00   | ug/l  | 100      |

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QLast Update : Thu May 24 12:37:57 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 402678   | 50.00 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 215115   | 50.00 | ug/l  | 100      |
| 95) Naphthalene            | 13.84 | 128  | 1235139  | 50.00 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 413568   | 50.00 | ug/l  | 100      |

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

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