

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051218\  
 Data File : VX001678.D  
 Acq On : 12 May 2018 20:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

apatel  
 5/15/2018 6:31:52 PM

Quant Time: May 14 07:24:19 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 238001   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 306778   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 288603   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 206404   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 145789   | 42.62 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 85.24% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 124516   | 45.63 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.26% |      |
| 50) Toluene-d8            | 8.72   | 98  | 436517   | 43.83 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.66% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 162743   | 42.56 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 85.12% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 142623  | 44.52  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 139866  | 44.82  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.40 | 62  | 149781  | 45.99  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 58177   | 38.22  | ug/l | 97     |
| 6) Chloroethane               | 1.72 | 64  | 101053  | 46.95  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 233114  | 47.57  | ug/l | 100    |
| 8) Diethyl Ether              | 2.19 | 74  | 93144   | 48.49  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 138253  | 48.12  | ug/l | 100    |
| 10) Methyl Iodide             | 2.51 | 142 | 163980  | 39.55  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.08 | 59  | 175335  | 243.10 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 124831  | 47.40  | ug/l | 98     |
| 13) Acrolein                  | 2.30 | 56  | 22813   | 156.07 | ug/l | 95     |
| 14) Allyl chloride            | 2.73 | 41  | 242366  | 49.36  | ug/l | 97     |
| 15) Acrylonitrile             | 3.15 | 53  | 402488  | 246.96 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 353750  | 227.74 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.57 | 76  | 285631  | 42.62  | ug/l | 100    |
| 18) Methyl Acetate            | 2.78 | 43  | 225921  | 55.36  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 454902  | 49.61  | ug/l | 99     |
| 20) Methylene Chloride        | 2.86 | 84  | 145556  | 47.33  | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 134162  | 45.65  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.88 | 45  | 468491  | 51.06  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.83 | 43  | 1907400 | 249.46 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 249057  | 48.60  | ug/l | 100    |
| 25) 2-Butanone                | 4.71 | 43  | 547041  | 243.63 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 183552  | 46.38  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 155859  | 49.79  | ug/l | 96     |
| 28) Bromochloromethane        | 5.03 | 49  | 116970  | 52.64  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.17 | 42  | 352545  | 245.40 | ug/l | 99     |
| 30) Chloroform                | 5.22 | 83  | 276622  | 52.40  | ug/l | 98     |
| 31) Cyclohexane               | 5.58 | 56  | 210131  | 47.74  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 242280  | 52.51  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 188018  | 48.18  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.87 | 43  | 208223  | 48.68  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 218069  | 52.40  | ug/l | 99     |

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Manual Integrations  
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 5/15/2018 6:31:52 PM

Quant Time: May 14 07:24:19 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 217945   | 47.24  | ug/l  | 99       |
| 40) Benzene                    | 6.15  | 78   | 581659   | 51.03  | ug/l  | 98       |
| 41) Methacrylonitrile          | 5.07  | 41   | 123512   | 50.47  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 221236   | 50.50  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.47  | 43   | 335325   | 51.06  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 176220   | 50.58  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 147809   | 52.02  | ug/l  | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 101585   | 50.50  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 203891   | 54.77  | ug/l  | 100      |
| 48) Methyl methacrylate        | 7.79  | 41   | 181441   | 50.74  | ug/l  | 98       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 76394    | 988.89 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 1137468  | 260.67 | ug/l  | 99       |
| 52) Toluene                    | 8.79  | 92   | 388462   | 52.12  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 229750   | 54.61  | ug/l  | 96       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 208644   | 48.06  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 154835   | 51.57  | ug/l  | 97       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 222718   | 51.46  | ug/l  | 97       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 253000   | 50.96  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 567497   | 267.32 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.51  | 43   | 830596   | 248.57 | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 167813   | 54.58  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 161477   | 51.22  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 202092   | 50.24  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.15 | 112  | 431564   | 50.99  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 162371   | 53.63  | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.26 | 91   | 707276   | 50.98  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.37 | 106  | 564854   | 103.04 | ug/l  | 99       |
| 69) o-Xylene                   | 10.71 | 106  | 276543   | 51.91  | ug/l  | 100      |
| 70) Styrene                    | 10.72 | 104  | 462047   | 53.39  | ug/l  | 98       |
| 71) Bromoform                  | 10.87 | 173  | 135607   | 46.82  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 739824   | 51.78  | ug/l  | 99       |
| 74) N-amyl acetate             | 6.47  | 43   | 335325   | 51.67  | ug/l  | # 99     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 221691   | 52.53  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 215427m  | 51.46  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 209266   | 50.37  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.37 | 91   | 820533   | 52.73  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 492935   | 51.48  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 617629   | 51.92  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 58053    | 44.71  | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 568224   | 51.44  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 615347   | 51.98  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 637828   | 52.17  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 756231   | 53.23  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 686756   | 52.69  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 377454   | 50.83  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 378086   | 49.92  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.40 | 91   | 553772   | 51.28  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 111308   | 56.71  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 389555   | 51.56  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 49549    | 53.44  | ug/l  | 97       |

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QLast Update : Sun May 06 07:59:25 2018  
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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 288655   | 52.21 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 151462   | 50.07 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 831278   | 54.37 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 297450   | 52.43 | ug/l  | 99       |

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

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