

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX050818\  
 Data File : VX001529.D  
 Acq On : 08 May 2018 22:28  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 5/10/2018 1:11:29 PM

Quant Time: May 09 07:40:01 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  | 231900   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 305722   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 295916   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 216407   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 173053   | 51.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.84% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 140077   | 51.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.02% |      |
| 50) Toluene-d8            | 8.72   | 98  | 506834   | 51.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.12% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 194127   | 50.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.90% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 160143  | 51.30  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 155999  | 51.31  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 162432  | 51.19  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 77080   | 53.30  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 109396  | 52.16  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 255971  | 53.60  | ug/l | 100    |
| 8) Diethyl Ether              | 2.19 | 74  | 98376   | 52.56  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 146201  | 52.22  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 201518  | 49.89  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.09 | 59  | 190773  | 271.47 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 135623  | 52.85  | ug/l | 99     |
| 13) Acrolein                  | 2.30 | 56  | 36613   | 264.99 | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 251676  | 52.60  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 438322  | 276.02 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 390107  | 257.75 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 329584  | 50.47  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 230935  | 58.08  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 482344  | 53.99  | ug/l | 98     |
| 20) Methylene Chloride        | 2.86 | 84  | 154863  | 51.68  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 146692  | 51.22  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.88 | 45  | 476729  | 53.33  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.83 | 43  | 1973323 | 264.88 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 272932  | 54.66  | ug/l | 99     |
| 25) 2-Butanone                | 4.72 | 43  | 587270  | 268.43 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 157718  | 40.90  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 159500  | 52.30  | ug/l | 96     |
| 28) Bromochloromethane        | 5.03 | 49  | 119000  | 54.96  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.18 | 42  | 381278  | 272.38 | ug/l | 100    |
| 30) Chloroform                | 5.22 | 83  | 283319  | 55.08  | ug/l | 99     |
| 31) Cyclohexane               | 5.58 | 56  | 224287  | 52.29  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 250264  | 55.67  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 198369  | 51.01  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.87 | 43  | 227380  | 53.34  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 227016  | 54.73  | ug/l | 99     |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 5/10/2018 1:11:29 PM

Quant Time: May 09 07:40:01 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   | 231243   | 50.30   | ug/l   | 97       |
| 40) Benzene                    | 6.15  | 78   | 605948   | 53.35   | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.07  | 41   | 129536   | 53.11   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 235080   | 53.85   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.48  | 43   | 359648   | 54.96   | ug/l   | 100      |
| 44) Trichloroethene            | 7.22  | 130  | 185107   | 53.32   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 151080   | 53.35   | ug/l   | 100      |
| 46) Dibromomethane             | 7.67  | 93   | 107712   | 53.73   | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 210045   | 56.61   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.79  | 41   | 196541   | 55.16   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 82394    | 1070.24 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 1224117  | 281.49  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 397934   | 53.58   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 230214   | 54.90   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 209913   | 48.49   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 161858   | 54.09   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 237994   | 55.18   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 267379   | 54.04   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 613717   | 290.09  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.51  | 43   | 928775   | 278.91  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 174787   | 57.04   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 172308   | 54.84   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 224864   | 54.52   | ug/l   | 99       |
| 65) Chlorobenzene              | 10.15 | 112  | 455430   | 52.48   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 173788   | 55.98   | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.26 | 91   | 758913   | 53.35   | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.37 | 106  | 606173   | 107.85  | ug/l   | 100      |
| 69) o-Xylene                   | 10.71 | 106  | 296838   | 54.34   | ug/l   | 99       |
| 70) Styrene                    | 10.72 | 104  | 495059   | 55.79   | ug/l   | 99       |
| 71) Bromoform                  | 10.87 | 173  | 145007   | 48.67   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 794417   | 53.03   | ug/l   | 100      |
| 74) N-amyl acetate             | 6.48  | 43   | 359648   | 52.85   | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 234558   | 53.01   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 231593m  | 52.77   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 226739   | 52.06   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.37 | 91   | 883483   | 54.16   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 528260   | 52.62   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 673748   | 54.02   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 59971    | 44.12   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 620377   | 53.57   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 650365   | 52.40   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 691091   | 53.91   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.95 | 105  | 807041   | 54.18   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 742590   | 54.34   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 403332   | 51.80   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 412077   | 51.89   | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.40 | 91   | 592570   | 52.33   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 115607   | 56.18   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 415157   | 52.41   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 55709    | 57.31   | ug/l   | 100      |

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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
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5/10/2018 1:11:29 PM

Quant Time: May 09 07:40:01 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) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 305264   | 52.66 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 164091   | 51.74 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 903059   | 56.33 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 319622   | 53.74 | ug/l  | 99       |

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

