# Evaluate Continuing Calibration Report

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX040818\
Data File : VX000745.D
Acq On : 08 Apr 2018 21:10
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC050

Quant Time: Apr 09 08:30:21 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X040718W.M
Quant Title : SW846 8260
QLast Update : Sat Apr 07 17:01:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 47.167 | 5.7 | 93 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 39.204 | 21.6# | 75 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 46.227 | 7.5# | 96 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 23.478 | 53.0# | 50 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 49.544 | 0.9 | 103 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 46.858 | 6.3 | 97 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 53.020 | -6.0 | 102 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.691 | 4.6 | 99 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 18.206 | 63.6# | 29 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 219.691 | 12.1 | 82 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.936 | 4.1# | 99 | 0.00 |
| 13 | T | Acrolein | 250.000 | 253.779 | -1.5 | 107 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 45.583 | 8.8 | 96 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 242.021 | 3.2 | 94 | 0.00 |
| 16 | T | Acetone | 250.000 | 235.102 | 6.0 | 96 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 51.652 | -3.3 | 100 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 49.876 | 0.2 | 95 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.645 | 0.7 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 49.591 | 0.8 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.535 | 0.9 | 102 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.916 | 2.2 | 98 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 241.585 | 3.4 | 94 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.087 | -0.2 | 101 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 231.022 | 7.6 | 89 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 42.046 | 15.9 | 86 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.223 | 3.6 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 53.756 | -7.5 | 96 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 228.242 | 8.7 | 88 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.823 | 2.4# | 99 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.169 | -0.3 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.241 | 3.5 | 98 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 46.825 | 6.3 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.568 | -1.1 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 45.493 | 9.0 | 98 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 44.079 | 11.8 | 90 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 46.804 | 6.4 | 98 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 48.427 | 3.1 | 96 | 0.00 |
| 40 | TM | Benzene | 50.000 | 47.754 | 4.5 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 45.325 | 9.3 | 91 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.456 | 7.1 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 45.055 | 9.9 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 48.895 | 2.2 | 101 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 47.086 | 5.8# | 98 | 0.00 |

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ALS Vial : 27 Sample Multiplier: 1

**Instrument :** MSVOA_X
**LabSampleId :** VSTDCCC050

Quant Time: Apr 09 08:30:21 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X040718W.M
Quant Title : SW846 8260
QLast Update : Sat Apr 07 17:01:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 46.817 | 6.4 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 47.581 | 4.8 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 46.250 | 7.5 | 92 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 846.022 | 15.4 | 83 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.865 | 2.3 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 230.534 | 7.8 | 91 | 0.00 |
| 52 | CM | Toluene | 50.000 | 47.603 | 4.8# | 99 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 46.733 | 6.5 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 46.064 | 7.9 | 94 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.922 | 2.2 | 100 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 47.591 | 4.8 | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 47.658 | 4.7 | 99 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 246.574 | 1.4 | 109 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 227.640 | 8.9 | 90 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.421 | 3.2 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.568 | 4.9 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 47.525 | 5.0 | 99 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.358 | 3.3 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.399 | 3.2 | 100 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.726 | 2.5 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 47.834 | 4.3# | 99 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 96.484 | 3.5 | 100 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 47.748 | 4.5 | 99 | 0.00 |
| 70 | T | Styrene | 50.000 | 48.886 | 2.2 | 100 | 0.00 |
| 71 | P | Bromoform | 50.000 | 48.834 | 2.3 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 48.373 | 3.3 | 100 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 44.978 | 10.0 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.943 | 4.1 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.100 | 5.8 | 95 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.843 | 0.3 | 102 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 47.426 | 5.1 | 99 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 47.190 | 5.6 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 47.652 | 4.7 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 41.186 | 17.6 | 83 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 47.285 | 5.4 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 48.571 | 2.9 | 100 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 47.857 | 4.3 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 47.960 | 4.1 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 47.506 | 5.0 | 98 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.791 | 2.4 | 100 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.639 | 2.7 | 101 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 46.426 | 7.1 | 97 | 0.00 |

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Quant Title : SW846 8260
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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 46.834 | 6.3 | 96 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 49.086 | 1.8 | 100 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.108 | 11.8 | 88 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 48.622 | 2.8 | 100 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 45.964 | 8.1 | 95 | 0.00 |
| 95 T | Naphthalene | 50.000 | 49.403 | 1.2 | 98 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.787 | 0.4 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6