# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN061319\
Data File : VN056273.D
Acq On : 13 Jun 2019 11:27
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_N
**LabSampleId :** VSTDCCC050

Quant Time: Jun 14 01:19:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 48.509 | 3.0 | 96 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 53.292 | -6.6 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 53.094 | -6.2# | 100 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 50.143 | -0.3 | 96 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 51.978 | -4.0 | 99 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 52.703 | -5.4 | 103 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.488 | -1.0 | 100 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 56.392 | -12.8 | 110 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.662 | 0.7 | 96 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 256.807 | -2.7 | 102 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 52.508 | -5.0# | 101 | 0.00 |
| 13 | T | Acrolein | 250.000 | 244.309 | 2.3 | 98 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 55.284 | -10.6 | 107 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 298.282 | -19.3 | 112 | 0.00 |
| 16 | T | Acetone | 250.000 | 279.197 | -11.7 | 108 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 49.195 | 1.6 | 93 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 62.278 | -24.6 | 124 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 54.328 | -8.7 | 106 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 53.129 | -6.3 | 106 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 51.890 | -3.8 | 101 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 55.741 | -11.5 | 111 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 286.344 | -14.5 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 56.015 | -12.0 | 110 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 295.343 | -18.1 | 112 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.807 | -3.6 | 101 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.960 | -5.9 | 103 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 57.948 | -15.9 | 110 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 292.657 | -17.1 | 113 | 0.00 |
| 30 | C | Chloroform | 50.000 | 56.288 | -12.6# | 110 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.723 | -1.4 | 104 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 54.994 | -10.0 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 55.217 | -10.4 | 109 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 54.113 | -8.2 | 110 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.221 | -0.4 | 104 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 56.747 | -13.5 | 111 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 53.210 | -6.4 | 108 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.079 | -2.2 | 104 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.805 | -3.6 | 105 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 61.116 | -22.2 | 130 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 52.628 | -5.3 | 109 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.449 | -6.9 | 105 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.071 | -0.1 | 103 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.862 | -9.7# | 112 | 0.00 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 54.487 | -9.0 | 110 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 58.121 | -16.2 | 115 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 56.992 | -14.0 | 116 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1069.100 | -6.9 | 107 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.916 | -3.8 | 106 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 282.519 | -13.0 | 113 | 0.00 |
| 52 | CM | Toluene | 50.000 | 52.023 | -4.0# | 104 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.856 | 0.3 | 108 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 56.630 | -13.3 | 109 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 54.187 | -8.4 | 109 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 54.883 | -9.8 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 55.176 | -10.4 | 111 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 224.623 | 10.2 | 100 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 282.259 | -12.9 | 114 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.035 | -4.1 | 113 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 55.005 | -10.0 | 110 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 52.873 | -5.7 | 106 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.811 | 6.4 | 99 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 51.956 | -3.9 | 108 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 56.014 | -12.0 | 112 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.793 | -3.6# | 106 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 103.192 | -3.2 | 105 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.341 | -2.7 | 105 | 0.00 |
| 70 | T | Styrene | 50.000 | 54.772 | -9.5 | 107 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.361 | -4.7 | 114 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 56.678 | -13.4 | 107 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 53.253 | -6.5 | 109 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.147 | -6.3 | 112 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 53.439 | -6.9 | 112 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.329 | 1.3 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.245 | -4.5 | 108 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 57.395 | -14.8 | 109 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.032 | -0.1 | 108 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.965 | -9.9 | 106 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 53.075 | -6.2 | 110 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 56.403 | -12.8 | 106 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.511 | -3.0 | 106 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.313 | -2.6 | 108 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.729 | -3.5 | 106 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 52.550 | -5.1 | 106 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 52.266 | -4.5 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.062 | -8.1 | 106 | 0.00 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 58.565 | -17.1 | 117 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 51.095 | -2.2 | 105 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 58.945 | -17.9 | 111 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 43.647 | 12.7 | 97 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 55.863 | -11.7 | 107 | 0.00 |
| 95 T | Naphthalene | 50.000 | 43.364 | 13.3 | 93 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 45.930 | 8.1 | 98 | 0.00 |

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