# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN072318\
Data File : VN050000.D
Acq On : 23 Jul 2018 9:01
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jul 24 04:56:53 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.534 | 0.819 | -53.4# | 199# | 0.00 |
| 3 | P | Chloromethane | 0.682 | 0.795 | -16.6 | 142 | 0.00 |
| 4 | C | Vinyl Chloride | 0.728 | 0.830 | -14.0# | 136 | 0.00 |
| 5 | T | Bromomethane | 0.471 | 0.463 | 1.7 | 124 | 0.00 |
| 6 | T | Chloroethane | 0.475 | 0.479 | -0.8 | 123 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.001 | 1.073 | -7.2 | 130 | 0.00 |
| 8 | T | Diethyl Ether | 0.349 | 0.363 | -4.0 | 120 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.617 | 0.654 | -6.0 | 130 | 0.00 |
| 10 | T | Methyl Iodide | 0.828 | 0.837 | -1.1 | 111 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.049 | 0.045 | 8.2 | 101 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.542 | 0.579 | -6.8# | 126 | 0.00 |
| 13 | T | Acrolein | 0.032 | 0.015 | 53.1# | 47# | 0.00 |
| 14 | T | Allyl chloride | 0.855 | 0.926 | -8.3 | 123 | 0.00 |
| 15 | T | Acrylonitrile | 0.215 | 0.211 | 1.9 | 107 | 0.00 |
| 16 | T | Acetone | 0.178 | 0.176 | 1.1 | 121 | 0.00 |
| 17 | T | Carbon Disulfide | 1.622 | 1.826 | -12.6 | 137 | 0.00 |
| 18 | T | Methyl Acetate | 0.672 | 0.594 | 11.6 | 117 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.492 | 1.583 | -6.1 | 114 | 0.00 |
| 20 | T | Methylene Chloride | 0.677 | 0.656 | 3.1 | 120 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.576 | 0.631 | -9.5 | 124 | 0.00 |
| 22 | T | Diisopropyl ether | 1.744 | 1.927 | -10.5 | 117 | 0.00 |
| 23 | T | Vinyl Acetate | 1.224 | 1.329 | -8.6 | 113 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.119 | 1.147 | -2.5 | 120 | 0.00 |
| 25 | T | 2-Butanone | 0.254 | 0.264 | -3.9 | 113 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.871 | 0.985 | -13.1 | 134 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.632 | 0.684 | -8.2 | 119 | 0.00 |
| 28 | T | Bromochloromethane | 0.506 | 0.455 | 10.1 | 97 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.160 | 0.165 | -3.1 | 106 | 0.00 |
| 30 | C | Chloroform | 1.149 | 1.157 | -0.7# | 117 | 0.00 |
| 31 | T | Cyclohexane | 1.047 | 1.038 | 0.9 | 129 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.993 | 1.008 | -1.5 | 119 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.687 | 0.648 | 5.7 | 105 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.420 | 0.418 | 0.5 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.556 | 0.647 | -16.4 | 122 | 0.00 |
| 37 | T | Ethyl Acetate | 0.382 | 0.392 | -2.6 | 106 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.596 | 0.648 | -8.7 | 121 | 0.00 |
| 39 | T | Methylcyclohexane | 0.574 | 0.716 | -24.7# | 130 | 0.00 |
| 40 | TM | Benzene | 1.694 | 1.898 | -12.0 | 120 | 0.00 |
| 41 | T | Methacrylonitrile | 0.191 | 0.196 | -2.6 | 110 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.561 | 0.603 | -7.5 | 117 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.667 | 0.717 | -7.5 | 109 | 0.00 |
| 44 | TM | Trichloroethene | 0.444 | 0.497 | -11.9 | 122 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.457 | 0.491 | -7.4# | 117 | 0.00 |

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ALS Vial : 2 Sample Multiplier: 1

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

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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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.283 | 0.300 | -6.0 | 114 | 0.00 |
| 47 | T | Bromodichloromethane | 0.586 | 0.635 | -8.4 | 116 | 0.00 |
| 48 | T | Methyl methacrylate | 0.335 | 0.371 | -10.7 | 113 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.005 | 0.005 | 0.0 | 98 | 0.00 |
| 50 | S | Toluene-d8 | 1.529 | 1.525 | 0.3 | 104 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.373 | 0.401 | -7.5 | 105 | 0.00 |
| 52 | CM | Toluene | 1.011 | 1.177 | -16.4# | 118 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.580 | 0.654 | -12.8 | 116 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.641 | 0.745 | -16.2 | 119 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.418 | 0.425 | -1.7 | 112 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.487 | 0.541 | -11.1 | 106 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.658 | 0.719 | -9.3 | 114 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.222 | 0.252 | -13.5 | 104 | 0.00 |
| 59 | T | 2-Hexanone | 0.250 | 0.285 | -14.0 | 108 | 0.00 |
| 60 | T | Dibromochloromethane | 0.458 | 0.489 | -6.8 | 113 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.390 | 0.420 | -7.7 | 111 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.527 | 0.534 | -1.3 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 64 | T | Tetrachloroethene | 0.449 | 0.520 | -15.8 | 127 | 0.00 |
| 65 | PM | Chlorobenzene | 1.256 | 1.373 | -9.3 | 117 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.487 | 0.512 | -5.1 | 115 | 0.00 |
| 67 | C | Ethyl Benzene | 2.038 | 2.391 | -17.3# | 117 | 0.00 |
| 68 | T | m/p-Xylenes | 0.771 | 0.926 | -20.1# | 116 | 0.00 |
| 69 | T | o-Xylene | 0.741 | 0.877 | -18.4 | 116 | 0.00 |
| 70 | T | Styrene | 1.200 | 1.436 | -19.7 | 113 | 0.00 |
| 71 | P | Bromoform | 0.348 | 0.373 | -7.2 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 3.798 | 4.302 | -13.3 | 116 | 0.00 |
| 74 | T | N-amyl acetate | 1.156 | 1.200 | -3.8 | 103 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.138 | 1.056 | 7.2 | 104 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.938 | 0.834 | 11.1 | 97 | 0.00 |
| 77 | T | Bromobenzene | 1.049 | 1.084 | -3.3 | 112 | 0.00 |
| 78 | T | n-propylbenzene | 4.318 | 5.034 | -16.6 | 117 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.651 | 2.935 | -10.7 | 115 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.044 | 3.570 | -17.3 | 116 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.300 | 0.310 | -3.3 | 106 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.660 | 3.020 | -13.5 | 115 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.673 | 3.028 | -13.3 | 113 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.084 | 3.676 | -19.2 | 116 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.533 | 4.144 | -17.3 | 116 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.012 | 3.656 | -21.4# | 117 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.827 | 1.971 | -7.9 | 114 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.832 | 1.918 | -4.7 | 114 | 0.00 |
| 89 | T | n-Butylbenzene | 2.487 | 3.087 | -24.1# | 120 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.676 | 0.663 | 1.9 | 114 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.797 | 1.892 | -5.3 | 112 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.176 | 0.164 | 6.8 | 105 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.825 | 1.000 | -21.2# | 113 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.589 | 0.616 | -4.6 | 122 | 0.00 |
| 95 T | Naphthalene | 1.828 | 2.104 | -15.1 | 101 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.862 | 0.978 | -13.5 | 110 | 0.00 |

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