# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
Data File : VN055360.D
Acq On : 2 May 2019 19:41
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

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

Quant Time: May 03 05:15:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 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 | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.613 | 0.559 | 8.8 | 80 | 0.00 |
| 3 | P | Chloromethane | 0.759 | 0.620 | 18.3 | 76 | 0.00 |
| 4 | C | Vinyl Chloride | 0.611 | 0.575 | 5.9# | 89 | 0.00 |
| 5 | T | Bromomethane | 0.324 | 0.302 | 6.8 | 86 | 0.00 |
| 6 | T | Chloroethane | 0.331 | 0.301 | 9.1 | 87 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.869 | 0.822 | 5.4 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 0.304 | 0.320 | -5.3 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.518 | 0.485 | 6.4 | 89 | 0.00 |
| 10 | T | Methyl Iodide | 0.729 | 0.679 | 6.9 | 83 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.037 | 0.048 | -29.7# | 117 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.494 | 0.468 | 5.3# | 89 | 0.00 |
| 13 | T | Acrolein | 0.029 | 0.023 | 20.7 | 67 | 0.00 |
| 14 | T | Allyl chloride | 1.023 | 1.000 | 2.2 | 90 | 0.00 |
| 15 | T | Acrylonitrile | 0.211 | 0.236 | -11.8 | 101 | 0.00 |
| 16 | T | Acetone | 0.204 | 0.192 | 5.9 | 91 | 0.00 |
| 17 | T | Carbon Disulfide | 1.289 | 1.057 | 18.0 | 74 | 0.00 |
| 18 | T | Methyl Acetate | 0.591 | 0.604 | -2.2 | 108 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.389 | 1.555 | -12.0 | 100 | 0.00 |
| 20 | T | Methylene Chloride | 0.622 | 0.559 | 10.1 | 89 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.523 | 0.495 | 5.4 | 88 | 0.00 |
| 22 | T | Diisopropyl ether | 2.033 | 2.121 | -4.3 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 1.332 | 1.524 | -14.4 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.083 | 1.065 | 1.7 | 93 | 0.00 |
| 25 | T | 2-Butanone | 0.261 | 0.297 | -13.8 | 101 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.748 | 0.690 | 7.8 | 86 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.595 | 0.600 | -0.8 | 93 | 0.00 |
| 28 | T | Bromochloromethane | 0.546 | 0.532 | 2.6 | 92 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.167 | 0.199 | -19.2 | 106 | 0.00 |
| 30 | C | Chloroform | 1.027 | 0.999 | 2.7# | 92 | 0.00 |
| 31 | T | Cyclohexane | 1.029 | 0.932 | 9.4 | 88 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.833 | 0.808 | 3.0 | 91 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.654 | 0.672 | -2.8 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.328 | 0.323 | 1.5 | 94 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.479 | 0.456 | 4.8 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 0.367 | 0.401 | -9.3 | 105 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.462 | 0.408 | 11.7 | 87 | 0.00 |
| 39 | T | Methylcyclohexane | 0.509 | 0.474 | 6.9 | 87 | 0.00 |
| 40 | TM | Benzene | 1.412 | 1.360 | 3.7 | 90 | 0.00 |
| 41 | T | Methacrylonitrile | 0.195 | 0.212 | -8.7 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.487 | 2.6 | 94 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.590 | 0.711 | -20.5 | 108 | 0.00 |
| 44 | TM | Trichloroethene | 0.360 | 0.341 | 5.3 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.407 | 0.404 | 0.7# | 94 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.223 | 0.218 | 2.2 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 0.477 | 0.462 | 3.1 | 91 | 0.00 |
| 48 | T | Methyl methacrylate | 0.290 | 0.329 | -13.4 | 102 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.004 | -33.3# | 112 | 0.00 |
| 50 | S | Toluene-d8 | 1.185 | 1.163 | 1.9 | 92 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.332 | 0.387 | -16.6 | 105 | 0.00 |
| 52 | CM | Toluene | 0.810 | 0.788 | 2.7# | 90 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.415 | 0.450 | -8.4 | 94 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.517 | 0.538 | -4.1 | 91 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.301 | 0.310 | -3.0 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.370 | 0.433 | -17.0 | 101 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.528 | 0.539 | -2.1 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.097 | 0.125 | -28.9# | 109 | 0.00 |
| 59 | T | 2-Hexanone | 0.208 | 0.247 | -18.8 | 108 | 0.00 |
| 60 | T | Dibromochloromethane | 0.307 | 0.318 | -3.6 | 91 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.278 | 0.298 | -7.2 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.370 | 0.399 | -7.8 | 95 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 64 | T | Tetrachloroethene | 0.409 | 0.377 | 7.8 | 91 | 0.00 |
| 65 | PM | Chlorobenzene | 0.978 | 0.948 | 3.1 | 90 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.383 | 0.367 | 4.2 | 90 | 0.00 |
| 67 | C | Ethyl Benzene | 1.765 | 1.768 | -0.2# | 91 | 0.00 |
| 68 | T | m/p-Xylenes | 0.630 | 0.640 | -1.6 | 92 | 0.00 |
| 69 | T | o-Xylene | 0.625 | 0.629 | -0.6 | 92 | 0.00 |
| 70 | T | Styrene | 0.959 | 1.037 | -8.1 | 91 | 0.00 |
| 71 | P | Bromoform | 0.212 | 0.232 | -9.4 | 92 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 4.997 | 4.022 | 19.5 | 92 | 0.00 |
| 74 | T | N-amyl acetate | 1.283 | 1.824 | -42.2# | 135 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.268 | 1.040 | 18.0 | 96 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.139 | 0.882 | 22.6 | 88 | 0.00 |
| 77 | T | Bromobenzene | 1.134 | 0.961 | 15.3 | 94 | 0.00 |
| 78 | T | n-propylbenzene | 5.136 | 4.540 | 11.6 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 3.285 | 2.769 | 15.7 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.920 | 3.578 | 8.7 | 100 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.264 | 0.253 | 4.2 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.986 | 2.647 | 11.4 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.508 | 2.808 | 20.0 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.506 | 4.038 | -15.2 | 117 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.260 | 3.677 | 13.7 | 93 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.502 | 3.293 | 6.0 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.673 | 1.578 | 5.7 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.576 | 1.554 | 1.4 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 2.488 | 2.726 | -9.6 | 102 | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.662 | 0.506 | 23.6 | 86 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.658 | 1.582 | 4.6 | 97 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.132 | 0.169 | -28.0# | 115 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.521 | 0.686 | -31.7# | 108 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.617 | 0.538 | 12.8 | 97 | 0.00 |
| 95 T | Naphthalene | 1.122 | 1.611 | -43.6# | 123 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.533 | 0.694 | -30.2# | 109 | 0.00 |

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