# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN031619\
Data File : VN054331.D
Acq On : 16 Mar 2019 11:59
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Mar 18 05:17:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 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 | 93 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.474 | 0.479 | -1.1 | 87 | 0.00 |
| 3 | P | Chloromethane | 0.460 | 0.414 | 10.0 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 0.526 | 0.483 | 8.2# | 86 | 0.00 |
| 5 | T | Bromomethane | 0.364 | 0.328 | 9.9 | 89 | 0.00 |
| 6 | T | Chloroethane | 0.318 | 0.288 | 9.4 | 87 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.699 | 0.636 | 9.0 | 88 | 0.00 |
| 8 | T | Diethyl Ether | 0.319 | 0.318 | 0.3 | 88 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.524 | 0.545 | -4.0 | 91 | 0.00 |
| 10 | T | Methyl Iodide | 0.690 | 0.710 | -2.9 | 87 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.036 | 0.034 | 5.6 | 87 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.519 | 0.504 | 2.9# | 86 | 0.00 |
| 13 | T | Acrolein | 0.034 | 0.029 | 14.7 | 74 | 0.00 |
| 14 | T | Allyl chloride | 0.666 | 0.637 | 4.4 | 83 | 0.00 |
| 15 | T | Acrylonitrile | 0.150 | 0.157 | -4.7 | 92 | 0.00 |
| 16 | T | Acetone | 0.152 | 0.156 | -2.6 | 92 | 0.00 |
| 17 | T | Carbon Disulfide | 1.302 | 1.125 | 13.6 | 74 | 0.00 |
| 18 | T | Methyl Acetate | 0.308 | 0.369 | -19.8 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.288 | 1.293 | -0.4 | 89 | 0.00 |
| 20 | T | Methylene Chloride | 0.499 | 0.490 | 1.8 | 89 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.498 | 0.483 | 3.0 | 87 | 0.00 |
| 22 | T | Diisopropyl ether | 1.330 | 1.366 | -2.7 | 90 | 0.00 |
| 23 | T | Vinyl Acetate | 0.981 | 0.989 | -0.8 | 86 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.854 | 0.845 | 1.1 | 88 | 0.00 |
| 25 | T | 2-Butanone | 0.178 | 0.201 | -12.9 | 96 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.751 | 0.685 | 8.8 | 82 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.555 | 0.563 | -1.4 | 89 | 0.00 |
| 28 | T | Bromochloromethane | 0.349 | 0.337 | 3.4 | 87 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.115 | 0.119 | -3.5 | 91 | 0.00 |
| 30 | C | Chloroform | 0.891 | 0.908 | -1.9# | 91 | 0.00 |
| 31 | T | Cyclohexane | 0.919 | 0.767 | 16.5 | 86 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.805 | 0.779 | 3.2 | 84 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.531 | 0.510 | 4.0 | 88 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.322 | 0.324 | -0.6 | 90 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.460 | 0.462 | -0.4 | 87 | 0.00 |
| 37 | T | Ethyl Acetate | 0.265 | 0.278 | -4.9 | 91 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.472 | 2.3 | 84 | 0.00 |
| 39 | T | Methylcyclohexane | 0.567 | 0.581 | -2.5 | 88 | 0.00 |
| 40 | TM | Benzene | 1.318 | 1.354 | -2.7 | 89 | 0.00 |
| 41 | T | Methacrylonitrile | 0.151 | 0.153 | -1.3 | 89 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.445 | 0.448 | -0.7 | 88 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.464 | 0.470 | -1.3 | 86 | 0.00 |
| 44 | TM | Trichloroethene | 0.409 | 0.412 | -0.7 | 87 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.327 | 0.341 | -4.3# | 90 | 0.00 |

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.221 | 0.224 | -1.4 | 89 | 0.00 |
| 47 | T | Bromodichloromethane | 0.443 | 0.459 | -3.6 | 88 | 0.00 |
| 48 | T | Methyl methacrylate | 0.236 | 0.252 | -6.8 | 88 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.003 | 0.004 | -33.3# | 98 | 0.00 |
| 50 | S | Toluene-d8 | 1.191 | 1.195 | -0.3 | 90 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.246 | 0.272 | -10.6 | 93 | 0.00 |
| 52 | CM | Toluene | 0.835 | 0.864 | -3.5# | 90 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.451 | 0.445 | 1.3 | 82 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.516 | 0.526 | -1.9 | 85 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.305 | 0.320 | -4.9 | 91 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.364 | 0.395 | -8.5 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.499 | 0.527 | -5.6 | 91 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.138 | 0.153 | -10.9 | 95 | 0.00 |
| 59 | T | 2-Hexanone | 0.164 | 0.182 | -11.0 | 95 | 0.00 |
| 60 | T | Dibromochloromethane | 0.343 | 0.358 | -4.4 | 87 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.310 | 0.327 | -5.5 | 90 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.417 | 0.417 | 0.0 | 90 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 64 | T | Tetrachloroethene | 0.483 | 0.464 | 3.9 | 85 | 0.00 |
| 65 | PM | Chlorobenzene | 1.098 | 1.125 | -2.5 | 89 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.399 | 0.413 | -3.5 | 87 | 0.00 |
| 67 | C | Ethyl Benzene | 1.820 | 1.865 | -2.5# | 90 | 0.00 |
| 68 | T | m/p-Xylenes | 0.711 | 0.730 | -2.7 | 89 | 0.00 |
| 69 | T | o-Xylene | 0.693 | 0.723 | -4.3 | 91 | 0.00 |
| 70 | T | Styrene | 1.087 | 1.141 | -5.0 | 89 | 0.00 |
| 71 | P | Bromoform | 0.264 | 0.268 | -1.5 | 82 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 73 | T | Isopropylbenzene | 4.000 | 3.897 | 2.6 | 89 | 0.00 |
| 74 | T | N-amyl acetate | 0.888 | 0.900 | -1.4 | 87 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.852 | 0.872 | -2.3 | 93 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.735 | 0.730 | 0.7 | 89 | 0.00 |
| 77 | T | Bromobenzene | 1.059 | 1.025 | 3.2 | 88 | 0.00 |
| 78 | T | n-propylbenzene | 4.341 | 4.282 | 1.4 | 89 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.610 | 2.557 | 2.0 | 90 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.327 | 3.224 | 3.1 | 89 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.215 | 0.185 | 14.0 | 74 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.606 | 2.575 | 1.2 | 89 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.063 | 2.918 | 4.7 | 88 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.264 | 3.207 | 1.7 | 88 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.972 | 3.795 | 4.5 | 87 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.485 | 3.369 | 3.3 | 87 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.784 | 1.782 | 0.1 | 89 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.752 | 1.727 | 1.4 | 88 | 0.00 |
| 89 | T | n-Butylbenzene | 2.648 | 2.695 | -1.8 | 87 | 0.00 |

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|---|---|---|---|---|---|---|---|
| 90 | T | Hexachloroethane | 0.577 | 0.518 | 10.2 | 78 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.744 | 1.746 | -0.1 | 90 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.132 | 0.125 | 5.3 | 84 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.901 | 0.961 | -6.7 | 87 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.664 | 0.607 | 8.6 | 87 | 0.00 |
| 95 | T | Naphthalene | 1.854 | 1.998 | -7.8 | 90 | 0.00 |
| 96 | T | 1,2,3-Trichlorobenzene | 0.926 | 0.945 | -2.1 | 85 | 0.00 |

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