# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX060819\
Data File : VX010163.D
Acq On : 09 Jun 2019 00:53
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 26 Sample Multiplier: 1

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

Quant Time: Jun 10 09:17:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
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 | 81 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.460 | 0.487 | -5.9 | 79 | 0.00 |
| 3 | P | Chloromethane | 0.457 | 0.480 | -5.0 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 0.429 | 0.489 | -14.0# | 92 | 0.00 |
| 5 | T | Bromomethane | 0.162 | 0.185 | -14.2 | 94 | 0.00 |
| 6 | T | Chloroethane | 0.217 | 0.259 | -19.4 | 88 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.638 | 0.730 | -14.4 | 94 | 0.00 |
| 8 | T | Diethyl Ether | 0.220 | 0.247 | -12.3 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.440 | 0.427 | 3.0 | 82 | 0.00 |
| 10 | T | Methyl Iodide | 0.681 | 0.715 | -5.0 | 83 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.120 | 0.126 | -5.0 | 86 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.449 | 0.439 | 2.2# | 82 | 0.00 |
| 13 | T | Acrolein | 0.022 | 0.022 | 0.0 | 76 | 0.00 |
| 14 | T | Allyl chloride | 0.678 | 0.627 | 7.5 | 78 | 0.00 |
| 15 | T | Acrylonitrile | 0.244 | 0.250 | -2.5 | 84 | 0.00 |
| 16 | T | Acetone | 0.230 | 0.197 | 14.3 | 72 | 0.00 |
| 17 | T | Carbon Disulfide | 1.298 | 1.199 | 7.6 | 79 | 0.00 |
| 18 | T | Methyl Acetate | 0.505 | 0.508 | -0.6 | 86 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.443 | 1.404 | 2.7 | 82 | 0.00 |
| 20 | T | Methylene Chloride | 0.504 | 0.493 | 2.2 | 83 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.497 | 0.468 | 5.8 | 81 | 0.00 |
| 22 | T | Diisopropyl ether | 1.296 | 1.310 | -1.1 | 83 | 0.00 |
| 23 | T | Vinyl Acetate | 1.156 | 1.140 | 1.4 | 80 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.787 | 0.764 | 2.9 | 82 | 0.00 |
| 25 | T | 2-Butanone | 0.342 | 0.339 | 0.9 | 81 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.718 | 0.510 | 29.0# | 59 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.553 | 0.549 | 0.7 | 83 | 0.00 |
| 28 | T | Bromochloromethane | 0.353 | 0.354 | -0.3 | 84 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.215 | 0.220 | -2.3 | 85 | 0.00 |
| 30 | C | Chloroform | 0.817 | 0.803 | 1.7# | 81 | 0.00 |
| 31 | T | Cyclohexane | 0.710 | 0.716 | -0.8 | 82 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.768 | 0.731 | 4.8 | 81 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.488 | 0.484 | 0.8 | 83 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 82 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.308 | 0.312 | -1.3 | 85 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.408 | 0.385 | 5.6 | 81 | 0.00 |
| 37 | T | Ethyl Acetate | 0.424 | 0.413 | 2.6 | 82 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.462 | 0.436 | 5.6 | 81 | 0.00 |
| 39 | T | Methylcyclohexane | 0.555 | 0.512 | 7.7 | 79 | 0.00 |
| 40 | TM | Benzene | 1.261 | 1.245 | 1.3 | 83 | 0.00 |
| 41 | T | Methacrylonitrile | 0.230 | 0.226 | 1.7 | 83 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.403 | 0.379 | 6.0 | 80 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.710 | 0.688 | 3.1 | 82 | 0.00 |
| 44 | TM | Trichloroethene | 0.380 | 0.368 | 3.2 | 83 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.316 | 0.308 | 2.5# | 82 | 0.00 |

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**LabSampleId :** VSTDCCC050

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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.237 | 0.223 | 5.9 | 83 | 0.00 |
| 47 | T | Bromodichloromethane | 0.442 | 0.426 | 3.6 | 81 | 0.00 |
| 48 | T | Methyl methacrylate | 0.332 | 0.328 | 1.2 | 81 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.009 | 0.010 | -11.1 | 86 | 0.00 |
| 50 | S | Toluene-d8 | 1.156 | 1.189 | -2.9 | 85 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.424 | 0.446 | -5.2 | 86 | 0.00 |
| 52 | CM | Toluene | 0.829 | 0.807 | 2.7# | 83 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.511 | 0.463 | 9.4 | 76 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.548 | 0.502 | 8.4 | 78 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.340 | 0.342 | -0.6 | 84 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.536 | 0.538 | -0.4 | 83 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.535 | 0.531 | 0.7 | 84 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.253 | 0.250 | 1.2 | 80 | 0.00 |
| 59 | T | 2-Hexanone | 0.338 | 0.347 | -2.7 | 84 | 0.00 |
| 60 | T | Dibromochloromethane | 0.402 | 0.395 | 1.7 | 82 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.378 | 0.372 | 1.6 | 83 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.432 | 0.447 | -3.5 | 85 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 82 | 0.00 |
| 64 | T | Tetrachloroethene | 0.371 | 0.369 | 0.5 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 1.032 | 1.009 | 2.2 | 84 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.397 | 0.384 | 3.3 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 1.757 | 1.701 | 3.2# | 83 | 0.00 |
| 68 | T | m/p-Xylenes | 0.680 | 0.673 | 1.0 | 84 | 0.00 |
| 69 | T | o-Xylene | 0.676 | 0.660 | 2.4 | 84 | 0.00 |
| 70 | T | Styrene | 1.145 | 1.144 | 0.1 | 84 | 0.00 |
| 71 | P | Bromoform | 0.365 | 0.362 | 0.8 | 84 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 73 | T | Isopropylbenzene | 3.490 | 3.349 | 4.0 | 85 | 0.00 |
| 74 | T | N-amyl acetate | 1.380 | 1.339 | 3.0 | 85 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.195 | 1.155 | 3.3 | 86 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.000 | 0.948 | 5.2 | 84 | 0.00 |
| 77 | T | Bromobenzene | 0.960 | 0.920 | 4.2 | 85 | 0.00 |
| 78 | T | n-propylbenzene | 3.886 | 3.713 | 4.5 | 84 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.334 | 2.220 | 4.9 | 84 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.940 | 2.801 | 4.7 | 85 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.453 | 0.389 | 14.1 | 75 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.651 | 2.531 | 4.5 | 83 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.975 | 2.821 | 5.2 | 84 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.969 | 2.854 | 3.9 | 85 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.467 | 3.293 | 5.0 | 84 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.169 | 3.019 | 4.7 | 84 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.691 | 1.616 | 4.4 | 85 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.704 | 1.627 | 4.5 | 86 | 0.00 |
| 89 | T | n-Butylbenzene | 2.728 | 2.578 | 5.5 | 83 | 0.00 |

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

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.631 | 0.584 | 7.4 | 82 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.644 | 1.597 | 2.9 | 86 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.281 | 0.254 | 9.6 | 83 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 1.203 | 1.115 | 7.3 | 84 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.535 | 0.487 | 9.0 | 83 | 0.00 |
| 95 T | Naphthalene | 3.787 | 3.667 | 3.2 | 86 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 1.190 | 1.128 | 5.2 | 86 | 0.00 |

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