# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110719\
Data File : VN059128.D
Acq On : 7 Nov 2019 17:44
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

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

Quant Time: Nov 08 03:17:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 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 | 100 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.504 | 0.450 | 10.7 | 93 | 0.00 |
| 3 | P | Chloromethane | 0.685 | 0.584 | 14.7 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 0.664 | 0.591 | 11.0# | 93 | 0.00 |
| 5 | T | Bromomethane | 0.382 | 0.275 | 28.0# | 76 | 0.00 |
| 6 | T | Chloroethane | 0.393 | 0.354 | 9.9 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.794 | 0.734 | 7.6 | 95 | 0.00 |
| 8 | T | Diethyl Ether | 0.323 | 0.296 | 8.4 | 94 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.479 | 0.442 | 7.7 | 96 | 0.00 |
| 10 | T | Methyl Iodide | 0.593 | 0.472 | 20.4 | 80 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.117 | 0.096 | 17.9 | 85 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.466 | 0.432 | 7.3# | 96 | 0.00 |
| 13 | T | Acrolein | 0.060 | 0.049 | 18.3 | 83 | 0.00 |
| 14 | T | Allyl chloride | 0.958 | 0.858 | 10.4 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 0.292 | 0.284 | 2.7 | 96 | 0.00 |
| 16 | T | Acetone | 0.320 | 0.258 | 19.4 | 76 | 0.00 |
| 17 | T | Carbon Disulfide | 1.448 | 1.267 | 12.5 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 0.759 | 0.732 | 3.6 | 98 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.606 | 1.540 | 4.1 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 0.557 | 0.511 | 8.3 | 96 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.501 | 0.465 | 7.2 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 1.810 | 1.714 | 5.3 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 1.403 | 1.435 | -2.3 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.011 | 0.937 | 7.3 | 95 | 0.00 |
| 25 | T | 2-Butanone | 0.421 | 0.386 | 8.3 | 89 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.884 | 0.772 | 12.7 | 92 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.581 | 0.540 | 7.1 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.304 | 0.279 | 8.2 | 96 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.268 | 0.254 | 5.2 | 94 | 0.00 |
| 30 | C | Chloroform | 0.970 | 0.895 | 7.7# | 96 | 0.00 |
| 31 | T | Cyclohexane | 0.957 | 0.852 | 11.0 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.815 | 0.772 | 5.3 | 96 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.615 | 0.577 | 6.2 | 99 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.291 | 2.7 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.467 | 0.442 | 5.4 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 0.520 | 0.501 | 3.7 | 94 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.465 | 0.438 | 5.8 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 0.542 | 0.520 | 4.1 | 94 | 0.00 |
| 40 | TM | Benzene | 1.407 | 1.342 | 4.6 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 0.226 | 0.233 | -3.1 | 93 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.483 | 0.459 | 5.0 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.829 | 0.796 | 4.0 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.346 | 0.325 | 6.1 | 94 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.382 | 0.366 | 4.2# | 95 | 0.00 |

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|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 0.238 | 0.222 | 6.7 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 0.476 | 0.458 | 3.8 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.371 | 0.364 | 1.9 | 96 | 0.00 |
| 49 | T | 1,4-Dioxane | 0.007 | 0.005 | 28.6# | 81 | 0.00 |
| 50 | S | Toluene-d8 | 1.176 | 1.143 | 2.8 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.469 | 0.499 | -6.4 | 96 | 0.00 |
| 52 | CM | Toluene | 0.844 | 0.817 | 3.2# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.550 | 0.525 | 4.5 | 95 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.591 | 0.572 | 3.2 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.341 | 0.324 | 5.0 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.507 | 0.526 | -3.7 | 97 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.588 | 0.570 | 3.1 | 97 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.190 | 0.198 | -4.2 | 91 | 0.00 |
| 59 | T | 2-Hexanone | 0.360 | 0.367 | -1.9 | 91 | 0.00 |
| 60 | T | Dibromochloromethane | 0.361 | 0.355 | 1.7 | 97 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.346 | 0.334 | 3.5 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.424 | 0.420 | 0.9 | 101 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.340 | 0.316 | 7.1 | 96 | 0.00 |
| 65 | PM | Chlorobenzene | 0.975 | 0.939 | 3.7 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.354 | 3.3 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 1.729 | 1.720 | 0.5# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 0.648 | 0.643 | 0.8 | 97 | 0.00 |
| 69 | T | o-Xylene | 0.626 | 0.610 | 2.6 | 96 | 0.00 |
| 70 | T | Styrene | 0.985 | 1.019 | -3.5 | 97 | 0.00 |
| 71 | P | Bromoform | 0.284 | 0.283 | 0.4 | 97 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 3.637 | 3.470 | 4.6 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 1.541 | 1.532 | 0.6 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.239 | 1.161 | 6.3 | 97 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.138 | 1.022 | 10.2 | 99 | 0.00 |
| 77 | T | Bromobenzene | 0.914 | 0.842 | 7.9 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 4.164 | 4.043 | 2.9 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.583 | 2.417 | 6.4 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.082 | 2.943 | 4.5 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.431 | 0.402 | 6.7 | 94 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.591 | 2.468 | 4.7 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.661 | 2.489 | 6.5 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.982 | 2.914 | 2.3 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.461 | 3.335 | 3.6 | 95 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.056 | 3.033 | 0.8 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.565 | 1.493 | 4.6 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.566 | 1.466 | 6.4 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 2.675 | 2.634 | 1.5 | 96 | 0.00 |

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|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 0.614 | 0.556 | 9.4 | 97 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.539 | 1.475 | 4.2 | 97 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.280 | 0.227 | 18.9 | 94 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.825 | 0.858 | -4.0 | 101 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.531 | 0.464 | 12.6 | 93 | 0.00 |
| 95 T | Naphthalene | 2.265 | 2.423 | -7.0 | 105 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 0.863 | 0.846 | 2.0 | 99 | 0.00 |

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