# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031723\
Data File : VN077057.D
Acq On : 18 Mar 2023 01:04
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 35 Sample Multiplier: 1

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

Quant Time: Mar 18 02:39:37 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 18 02:17:37 2023
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 | 89 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.566 | 0.643 | -13.6 | 119 | 0.00 |
| 3 | P | Chloromethane | 0.504 | 0.415 | 17.7 | 78 | 0.00 |
| 4 | C | Vinyl Chloride | 0.544 | 0.578 | -6.2# | 99 | 0.00 |
| 5 | T | Bromomethane | 0.367 | 0.406 | -10.6 | 98 | 0.00 |
| 6 | T | Chloroethane | 0.344 | 0.394 | -14.5 | 112 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.170 | 1.181 | -0.9 | 94 | 0.00 |
| 8 | T | Diethyl Ether | 0.440 | 0.463 | -5.2 | 94 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.664 | 0.662 | 0.3 | 95 | 0.00 |
| 10 | T | Methyl Iodide | 0.747 | 0.784 | -5.0 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.116 | 0.137 | -18.1 | 103 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.607 | 0.621 | -2.3# | 93 | 0.00 |
| 13 | T | Acrolein | 0.144 | 0.144 | 0.0 | 91 | 0.00 |
| 14 | T | Allyl chloride | 1.111 | 1.242 | -11.8 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 0.391 | 0.437 | -11.8 | 100 | 0.00 |
| 16 | T | Acetone | 0.356 | 0.357 | -0.3 | 94 | 0.00 |
| 17 | T | Carbon Disulfide | 1.770 | 1.741 | 1.6 | 92 | 0.00 |
| 18 | T | Methyl Acetate | 1.342 | 1.485 | -10.7 | 100 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.179 | 2.315 | -6.2 | 95 | 0.00 |
| 20 | T | Methylene Chloride | 0.772 | 0.778 | -0.8 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.658 | 0.676 | -2.7 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 2.435 | 2.620 | -7.6 | 94 | 0.00 |
| 23 | T | Vinyl Acetate | 1.536 | 1.670 | -8.7 | 93 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.393 | 1.436 | -3.1 | 96 | 0.00 |
| 25 | T | 2-Butanone | 0.521 | 0.579 | -11.1 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.048 | 0.872 | 16.8 | 74 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.754 | 0.805 | -6.8 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.605 | 0.586 | 3.1 | 93 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.337 | 0.396 | -17.5 | 101 | 0.00 |
| 30 | C | Chloroform | 1.352 | 1.395 | -3.2# | 96 | 0.00 |
| 31 | T | Cyclohexane | 1.307 | 1.335 | -2.1 | 95 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.156 | 1.186 | -2.6 | 92 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.799 | 0.834 | -4.4 | 94 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.350 | 0.344 | 1.7 | 94 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.547 | 0.567 | -3.7 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 0.585 | 0.626 | -7.0 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.533 | 0.550 | -3.2 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 0.640 | 0.681 | -6.4 | 90 | 0.00 |
| 40 | TM | Benzene | 1.659 | 1.719 | -3.6 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 0.315 | 0.330 | -4.8 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.599 | 0.616 | -2.8 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.914 | 1.002 | -9.6 | 95 | 0.00 |
| 44 | TM | Trichloroethene | 0.381 | 0.377 | 1.0 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.441 | 0.460 | -4.3# | 96 | 0.00 |
| 46 | T | Dibromomethane | 0.278 | 0.289 | -4.0 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 0.583 | 0.600 | -2.9 | 96 | 0.00 |
| 48 | T | Methyl methacrylate | 0.437 | 0.507 | -16.0 | 97 | 0.00 |

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MSVOA_N
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VSTDCCC050

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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) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.007 | 0.009 | -28.6# | 103 | 0.00 |
| 50 | S | Toluene-d8 | 1.251 | 1.316 | -5.2 | 94 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.569 | 0.655 | -15.1 | 100 | 0.00 |
| 52 | CM | Toluene | 0.990 | 1.057 | -6.8# | 94 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.571 | 0.605 | -6.0 | 89 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.644 | 0.670 | -4.0 | 90 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.391 | 0.414 | -5.9 | 97 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.587 | 0.672 | -14.5 | 94 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.715 | 0.746 | -4.3 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.250 | 0.254 | -1.6 | 85 | 0.00 |
| 59 | T | 2-Hexanone | 0.413 | 0.483 | -16.9 | 100 | 0.00 |
| 60 | T | Dibromochloromethane | 0.392 | 0.422 | -7.7 | 94 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.387 | 0.406 | -4.9 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.442 | 0.479 | -8.4 | 92 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 64 | T | Tetrachloroethene | 0.336 | 0.340 | -1.2 | 96 | 0.00 |
| 65 | PM | Chlorobenzene | 1.150 | 1.167 | -1.5 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.426 | 0.429 | -0.7 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 2.090 | 2.239 | -7.1# | 93 | 0.00 |
| 68 | T | m/p-Xylenes | 0.775 | 0.836 | -7.9 | 94 | 0.00 |
| 69 | T | o-Xylene | 0.770 | 0.829 | -7.7 | 94 | 0.00 |
| 70 | T | Styrene | 1.199 | 1.368 | -14.1 | 95 | 0.00 |
| 71 | P | Bromoform | 0.288 | 0.317 | -10.1 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 73 | T | Isopropylbenzene | 4.481 | 4.691 | -4.7 | 93 | 0.00 |
| 74 | T | N-amyl acetate | 1.939 | 2.108 | -8.7 | 94 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.623 | 1.548 | 4.6 | 96 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.293 | 1.440 | -11.4 | 99 | 0.00 |
| 77 | T | Bromobenzene | 1.004 | 1.000 | 0.4 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 5.173 | 5.573 | -7.7 | 92 | 0.00 |
| 79 | T | 2-Chlorotoluene | 3.296 | 3.377 | -2.5 | 93 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.741 | 4.002 | -7.0 | 93 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.470 | 0.444 | 5.5 | 86 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.134 | 3.260 | -4.0 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.141 | 3.336 | -6.2 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.733 | 4.003 | -7.2 | 93 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.468 | 4.865 | -8.9 | 92 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.588 | 3.914 | -9.1 | 92 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.897 | 1.861 | 1.9 | 93 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.887 | 1.830 | 3.0 | 92 | 0.00 |
| 89 | T | n-Butylbenzene | 3.148 | 3.402 | -8.1 | 88 | 0.00 |
| 90 | T | Hexachloroethane | 0.730 | 0.727 | 0.4 | 94 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.891 | 1.835 | 3.0 | 91 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.301 | 0.306 | -1.7 | 91 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.855 | 0.918 | -7.4 | 87 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.471 | 0.443 | 5.9 | 86 | 0.00 |
| 95 | T | Naphthalene | 2.729 | 3.269 | -19.8 | 90 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.858 | 0.922 | -7.5 | 90 | 0.00 |

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