# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122123\
Data File : VN080564.D
Acq On : 21 Dec 2023 10:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 22 03:51:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 13 01:57:14 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 | 93 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.639 | 0.618 | 3.3 | 91 | 0.00 |
| 3 | P | Chloromethane | 0.759 | 0.555 | 26.9# | 76 | 0.00 |
| 4 | C | Vinyl Chloride | 0.546 | 0.481 | 11.9# | 82 | 0.00 |
| 5 | T | Bromomethane | 0.246 | 0.221 | 10.2 | 89 | 0.00 |
| 6 | T | Chloroethane | 0.351 | 0.306 | 12.8 | 87 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.107 | 1.036 | 6.4 | 89 | 0.00 |
| 8 | T | Diethyl Ether | 0.349 | 0.339 | 2.9 | 93 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.525 | 0.511 | 2.7 | 89 | 0.00 |
| 10 | T | Methyl Iodide | 0.461 | 0.378 | 18.0 | 71 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.075 | 0.067 | 10.7 | 81 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.538 | 0.503 | 6.5# | 91 | 0.00 |
| 13 | T | Acrolein | 0.082 | 0.100 | -22.0 | 123 | 0.00 |
| 14 | T | Allyl chloride | 0.665 | 0.640 | 3.8 | 92 | 0.00 |
| 15 | T | Acrylonitrile | 0.213 | 0.226 | -6.1 | 98 | 0.00 |
| 16 | T | Acetone | 0.113 | 0.125 | -10.6 | 86 | 0.00 |
| 17 | T | Carbon Disulfide | 1.523 | 1.280 | 16.0 | 81 | 0.00 |
| 18 | T | Methyl Acetate | 0.729 | 0.801 | -9.9 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.793 | 1.854 | -3.4 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 0.606 | 0.577 | 4.8 | 92 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.583 | 0.569 | 2.4 | 94 | 0.00 |
| 22 | T | Diisopropyl ether | 1.435 | 1.511 | -5.3 | 97 | 0.00 |
| 23 | T | Vinyl Acetate | 0.824 | 0.786 | 4.6 | 88 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.001 | 1.017 | -1.6 | 95 | 0.00 |
| 25 | T | 2-Butanone | 0.218 | 0.238 | -9.2 | 96 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.024 | 0.996 | 2.7 | 91 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.660 | 0.673 | -2.0 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.384 | 0.418 | -8.9 | 101 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.156 | 0.161 | -3.2 | 96 | 0.00 |
| 30 | C | Chloroform | 1.112 | 1.138 | -2.3# | 95 | 0.00 |
| 31 | T | Cyclohexane | 0.868 | 0.767 | 11.6 | 89 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.088 | 1.083 | 0.5 | 92 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.639 | 0.697 | -9.1 | 93 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.317 | 0.365 | -15.1 | 96 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.518 | 0.535 | -3.3 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 0.325 | 0.334 | -2.8 | 95 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.619 | 0.614 | 0.8 | 89 | 0.00 |
| 39 | T | Methylcyclohexane | 0.538 | 0.493 | 8.4 | 82 | 0.00 |
| 40 | TM | Benzene | 1.497 | 1.535 | -2.5 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 0.187 | 0.199 | -6.4 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.554 | 0.566 | -2.2 | 93 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.584 | 0.616 | -5.5 | 95 | 0.00 |
| 44 | TM | Trichloroethene | 0.404 | 0.401 | 0.7 | 90 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.352 | 0.385 | -9.4# | 100 | 0.00 |
| 46 | T | Dibromomethane | 0.252 | 0.260 | -3.2 | 94 | 0.00 |
| 47 | T | Bromodichloromethane | 0.541 | 0.575 | -6.3 | 94 | 0.00 |
| 48 | T | Methyl methacrylate | 0.348 | 0.361 | -3.7 | 92 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.005 | 0.005 | 0.0 | 85 | 0.00 |
| 50 | S | Toluene-d8 | 1.182 | 1.323 | -11.9 | 92 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.321 | 0.344 | -7.2 | 96 | 0.00 |
| 52 | CM | Toluene | 0.946 | 0.988 | -4.4# | 94 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.585 | 0.616 | -5.3 | 93 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.626 | 0.648 | -3.5 | 91 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.340 | 0.365 | -7.4 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.377 | 0.394 | -4.5 | 91 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.596 | 0.617 | -3.5 | 93 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.238 | 0.245 | -2.9 | 78 | 0.00 |
| 59 | T | 2-Hexanone | 0.237 | 0.244 | -3.0 | 92 | 0.00 |
| 60 | T | Dibromochloromethane | 0.403 | 0.421 | -4.5 | 92 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.352 | 0.355 | -0.9 | 92 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.449 | 0.477 | -6.2 | 85 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 64 | T | Tetrachloroethene | 0.386 | 0.382 | 1.0 | 87 | 0.00 |
| 65 | PM | Chlorobenzene | 1.112 | 1.145 | -3.0 | 90 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.436 | 0.455 | -4.4 | 90 | 0.00 |
| 67 | C | Ethyl Benzene | 2.045 | 2.045 | 0.0 | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 0.756 | 0.751 | 0.7 | 85 | 0.00 |
| 69 | T | o-Xylene | 0.739 | 0.727 | 1.6 | 85 | 0.00 |
| 70 | T | Styrene | 1.065 | 1.099 | -3.2 | 86 | 0.00 |
| 71 | P | Bromoform | 0.318 | 0.321 | -0.9 | 84 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 73 | T | Isopropylbenzene | 4.017 | 4.061 | -1.1 | 83 | 0.00 |
| 74 | T | N-amyl acetate | 1.173 | 1.198 | -2.1 | 84 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.076 | 1.113 | -3.4 | 89 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.997 | 1.040 | -4.3 | 89 | 0.00 |
| 77 | T | Bromobenzene | 0.988 | 1.013 | -2.5 | 84 | 0.00 |
| 78 | T | n-propylbenzene | 4.429 | 4.628 | -4.5 | 83 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.891 | 2.976 | -2.9 | 83 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.459 | 3.497 | -1.1 | 81 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.380 | 0.379 | 0.3 | 82 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.972 | 2.994 | -0.7 | 83 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.833 | 2.830 | 0.1 | 80 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.441 | 3.555 | -3.3 | 81 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.624 | 3.697 | -2.0 | 81 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.272 | 3.335 | -1.9 | 79 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.741 | 1.727 | 0.8 | 83 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.757 | 1.723 | 1.9 | 83 | 0.00 |
| 89 | T | n-Butylbenzene | 2.733 | 2.780 | -1.7 | 80 | 0.00 |
| 90 | T | Hexachloroethane | 0.520 | 0.510 | 1.9 | 81 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.653 | 1.670 | -1.0 | 90 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.226 | 0.233 | -3.1 | 93 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.918 | 0.930 | -1.3 | 86 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.523 | 0.474 | 9.4 | 83 | 0.00 |
| 95 | T | Naphthalene | 2.787 | 2.845 | -2.1 | 87 | 0.00 |

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|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.886 | 0.883 | 0.3 | 84 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 5