# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF121118\
Data File : BF111271.D
Acq On : 11 Dec 2018 11:43
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_F
**LabSampleId :** SSTDCCC040

Quant Time: Dec 11 17:12:47 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 10 01:15:27 2018
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 | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 74 | 0.00 |
| 2 | | 1,4-Dioxane | 0.650 | 0.547 | 15.8 | 64 | 0.01 |
| 3 | | Pyridine | 1.726 | 1.473 | 14.7 | 64 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.736 | 0.672 | 8.7 | 68 | 0.01 |
| 5 | S | 2-Fluorophenol | 1.267 | 1.160 | 8.4 | 68 | 0.00 |
| 6 | | Aniline | 2.099 | 1.944 | 7.4 | 67 | 0.00 |
| 7 | S | Phenol-d6 | 1.574 | 1.520 | 3.4 | 71 | 0.00 |
| 8 | | 2-Chlorophenol | 1.440 | 1.422 | 1.3 | 73 | 0.00 |
| 9 | | Benzaldehyde | 0.977 | 0.834 | 14.6 | 66 | 0.00 |
| 10 | C | Phenol | 1.840 | 1.697 | 7.8 | 68 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.423 | 1.313 | 7.7 | 67 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.547 | 1.452 | 6.1 | 70 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.562 | 1.537 | 1.6 | 73 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.457 | 1.339 | 8.1 | 70 | 0.00 |
| 15 | | Benzyl Alcohol | 1.246 | 1.151 | 7.6 | 69 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.665 | 2.496 | 6.3 | 69 | 0.00 |
| 17 | | 2-Methylphenol | 1.175 | 1.096 | 6.7 | 68 | 0.00 |
| 18 | | Hexachloroethane | 0.595 | 0.575 | 3.4 | 72 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.054 | 1.033 | 2.0 | 74 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.398 | 1.385 | 0.9 | 75 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 66 | 0.00 |
| 22 | | Acetophenone | 0.458 | 0.515 | -12.4 | 76 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.357 | 0.405 | -13.4 | 76 | 0.00 |
| 24 | | Nitrobenzene | 0.371 | 0.420 | -13.2 | 74 | 0.00 |
| 25 | | Isophorone | 0.607 | 0.665 | -9.6 | 73 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.184 | 0.179 | 2.7 | 61 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.285 | 0.303 | -6.3 | 70 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.421 | 0.457 | -8.6 | 73 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.291 | 0.283 | 2.7 | 65 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.287 | 0.282 | 1.7 | 65 | 0.00 |
| 31 | | Naphthalene | 0.873 | 0.907 | -3.9 | 68 | 0.00 |
| 32 | | Benzoic acid | 0.236 | 0.191 | 19.1 | 49# | 0.00 |
| 33 | | 4-Chloroaniline | 0.419 | 0.418 | 0.2 | 66 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.158 | 0.181 | -14.6 | 77 | 0.00 |
| 35 | | Caprolactam | 0.103 | 0.118 | -14.6 | 75 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.298 | 0.337 | -13.1 | 74 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.580 | 0.536 | 7.6 | 61 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.568 | 0.508 | 10.6 | 60 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 59 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.557 | 0.540 | 3.1 | 61 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.317 | 0.321 | -1.3 | 60 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.177 | 0.207 | -16.9 | 71 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.418 | 0.392 | 6.2 | 57 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.435 | 0.417 | 4.1 | 58 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 1.268 | 1.229 | 3.1 | 64 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.681 | 1.634 | 2.8 | 61 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.309 | 1.275 | 2.6 | 61 | 0.00 |
| 48 | | 2-Nitroaniline | 0.446 | 0.429 | 3.8 | 57 | 0.00 |
| 49 | | Acenaphthylene | 1.900 | 1.882 | 0.9 | 62 | 0.00 |
| 50 | | Dimethylphthalate | 1.476 | 1.401 | 5.1 | 61 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.326 | 0.313 | 4.0 | 57 | 0.00 |
| 52 | C | Acenaphthene | 1.192 | 1.189 | 0.3 | 61 | 0.00 |
| 53 | | 3-Nitroaniline | 0.402 | 0.389 | 3.2 | 57 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.129 | 0.122 | 5.4 | 55 | 0.00 |
| 55 | | Dibenzofuran | 1.622 | 1.717 | -5.9 | 62 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.313 | 0.300 | 4.2 | 55 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.402 | 0.412 | -2.5 | 58 | 0.00 |
| 58 | | Fluorene | 1.255 | 1.493 | -19.0 | 79 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.330 | 0.397 | -20.3 | 72 | 0.00 |
| 60 | | Diethylphthalate | 1.407 | 1.760 | -25.1# | 75 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.623 | 0.747 | -19.9 | 79 | 0.00 |
| 62 | | 4-Nitroaniline | 0.381 | 0.487 | -27.8# | 75 | 0.00 |
| 63 | | Azobenzene | 1.461 | 1.741 | -19.2 | 72 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.108 | 0.128 | -18.5 | 72 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.681 | 0.748 | -9.8 | 73 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.219 | 0.244 | -11.4 | 75 | 0.00 |
| 68 | | Hexachlorobenzene | 0.223 | 0.243 | -9.0 | 74 | 0.00 |
| 69 | | Atrazine | 0.207 | 0.234 | -13.0 | 77 | 0.00 |
| 70 | C | Pentachlorophenol | 0.162 | 0.167 | -3.1 | 67 | 0.00 |
| 71 | | Phenanthrene | 1.009 | 0.983 | 2.6 | 68 | 0.00 |
| 72 | | Anthracene | 1.055 | 0.955 | 9.5 | 65 | 0.00 |
| 73 | | Carbazole | 1.104 | 0.952 | 13.8 | 62 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.134 | 1.093 | 3.6 | 62 | 0.00 |
| 75 | C | Fluoranthene | 0.922 | 0.898 | 2.6 | 61 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 57 | 0.00 |
| 77 | | Benzidine | 0.594 | 0.793 | -33.5# | 72 | 0.00 |
| 78 | | Pyrene | 1.429 | 1.608 | -12.5 | 63 | 0.00 |
| 79 | S | Terphenyl-d14 | 0.834 | 1.093 | -31.1# | 75 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.747 | 0.819 | -9.6 | 62 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.116 | 1.078 | 3.4 | 55 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.457 | 0.428 | 6.3 | 52 | 0.00 |
| 83 | | Chrysene | 1.150 | 1.116 | 3.0 | 55 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.887 | 0.885 | 0.2 | 57 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 1.487 | 1.384 | 6.9 | 52 | 0.00 |
| 86 | | Indeno(1,2,3-cd)pyrene | 0.929 | 1.049 | -12.9 | 63 | 0.00 |
| 87 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 63 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 1.106 | 0.960 | 13.2 | 52 | 0.00 |
| 89 | Benzo(k)fluoranthene | 1.040 | 0.859 | 17.4 | 51 | 0.00 |
| 90 C | Benzo(a)pyrene | 1.019 | 1.051 | -3.1 | 64 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 0.800 | 0.873 | -9.1 | 64 | 0.00 |
| 92 | Benzo(g,h,i)perylene | 0.801 | 0.733 | 8.5 | 53 | 0.01 |

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