# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122017\
Data File : BF101586.D
Acq On : 21 Dec 2017 3:53
Operator : SJ/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 21 05:32:26 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 20 14:25:04 2017
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 | 81 | 0.00 |
| 2 | | 1,4-Dioxane | 0.690 | 0.675 | 2.2 | 79 | -0.02 |
| 3 | | Pyridine | 1.917 | 1.836 | 4.2 | 76 | -0.02 |
| 4 | | n-Nitrosodimethylamine | 0.883 | 0.835 | 5.4 | 75 | -0.02 |
| 5 | S | 2-Fluorophenol | 1.343 | 1.385 | -3.1 | 84 | 0.00 |
| 6 | | Aniline | 2.322 | 2.091 | 9.9 | 74 | 0.00 |
| 7 | S | Phenol-d6 | 1.671 | 1.541 | 7.8 | 78 | 0.00 |
| 8 | | 2-Chlorophenol | 1.412 | 1.349 | 4.5 | 80 | 0.00 |
| 9 | | Benzaldehyde | 1.234 | 1.135 | 8.0 | 75 | 0.00 |
| 10 | C | Phenol | 1.905 | 1.771 | 7.0 | 77 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.494 | 1.432 | 4.1 | 78 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.594 | 1.502 | 5.8 | 78 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.628 | 1.523 | 6.4 | 78 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.465 | 1.399 | 4.5 | 79 | 0.00 |
| 15 | | Benzyl Alcohol | 1.150 | 1.055 | 8.3 | 76 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.286 | 2.097 | 8.3 | 74 | 0.00 |
| 17 | | 2-Methylphenol | 1.299 | 1.159 | 10.8 | 77 | 0.00 |
| 18 | | Hexachloroethane | 0.566 | 0.495 | 12.5 | 72 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.097 | 0.988 | 9.9 | 78 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.377 | 1.375 | 0.1 | 82 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 76 | 0.00 |
| 22 | | Acetophenone | 0.456 | 0.463 | -1.5 | 79 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.359 | 0.359 | 0.0 | 76 | 0.00 |
| 24 | | Nitrobenzene | 0.398 | 0.394 | 1.0 | 77 | 0.00 |
| 25 | | Isophorone | 0.721 | 0.664 | 7.9 | 72 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.171 | 0.168 | 1.8 | 72 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.290 | 0.274 | 5.5 | 74 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.458 | 0.439 | 4.1 | 75 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.287 | 0.277 | 3.5 | 74 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.303 | 0.283 | 6.6 | 73 | 0.00 |
| 31 | | Naphthalene | 1.007 | 0.940 | 6.7 | 74 | 0.00 |
| 32 | | Benzoic acid | 0.173 | 0.142 | 17.9 | 65 | -0.02 |
| 33 | | 4-Chloroaniline | 0.438 | 0.401 | 8.4 | 72 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.175 | 0.170 | 2.9 | 75 | 0.00 |
| 35 | | Caprolactam | 0.100 | 0.084 | 16.0 | 65 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.315 | 0.289 | 8.3 | 71 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.656 | 0.591 | 9.9 | 71 | 0.00 |
| 38 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 66 | 0.00 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 0.675 | 0.699 | -3.6 | 70 | 0.00 |
| 40 | P | Hexachlorocyclopentadiene | 0.088 | 0.005# | 94.3# | 4# | 0.00 |
| 41 | S | 2,4,6-Tribromophenol | 0.193 | 0.167 | 13.5 | 58 | 0.00 |
| 42 | C | 2,4,6-Trichlorophenol | 0.407 | 0.445 | -9.3 | 71 | 0.00 |
| 43 | | 2,4,5-Trichlorophenol | 0.445 | 0.455 | -2.2 | 67 | 0.00 |
| 44 | S | 2-Fluorobiphenyl | 1.289 | 1.407 | -9.2 | 73 | 0.00 |

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|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 1.774 | 1.800 | -1.5 | 70 | 0.00 |
| 46 | | 2-Chloronaphthalene | 1.357 | 1.340 | 1.3 | 68 | 0.00 |
| 47 | | 2-Nitroaniline | 0.469 | 0.500 | -6.6 | 70 | 0.00 |
| 48 | | Acenaphthylene | 2.144 | 2.030 | 5.3 | 66 | 0.00 |
| 49 | | Dimethylphthalate | 1.609 | 1.558 | 3.2 | 67 | 0.00 |
| 50 | | 2,6-Dinitrotoluene | 0.327 | 0.317 | 3.1 | 63 | 0.00 |
| 51 | C | Acenaphthene | 1.288 | 1.226 | 4.8 | 66 | 0.00 |
| 52 | | 3-Nitroaniline | 0.408 | 0.405 | 0.7 | 65 | 0.00 |
| 53 | P | 2,4-Dinitrophenol | 0.087 | 0.012# | 86.2# | 9# | 0.02 |
| 54 | | Dibenzofuran | 1.637 | 1.645 | -0.5 | 67 | 0.00 |
| 55 | P | 4-Nitrophenol | 0.178 | 0.148 | 16.9 | 52 | 0.00 |
| 56 | | 2,4-Dinitrotoluene | 0.368 | 0.361 | 1.9 | 64 | 0.00 |
| 57 | | Fluorene | 1.385 | 1.329 | 4.0 | 64 | 0.00 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 0.320 | 0.296 | 7.5 | 61 | 0.00 |
| 59 | | Diethylphthalate | 1.593 | 1.523 | 4.4 | 67 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 0.664 | 0.671 | -1.1 | 67 | 0.00 |
| 61 | | 4-Nitroaniline | 0.410 | 0.349 | 14.9 | 57 | 0.00 |
| 62 | | Azobenzene | 1.650 | 1.521 | 7.8 | 65 | 0.00 |
| 63 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 56 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.102 | 0.034 | 66.7# | 18# | 0.00 |
| 65 | c | n-Nitrosodiphenylamine | 0.738 | 0.803 | -8.8 | 63 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 0.225 | 0.240 | -6.7 | 61 | 0.00 |
| 67 | | Hexachlorobenzene | 0.238 | 0.237 | 0.4 | 57 | 0.00 |
| 68 | | Atrazine | 0.220 | 0.212 | 3.6 | 55 | 0.00 |
| 69 | C | Pentachlorophenol | 0.079 | 0.084 | -6.3 | 59 | 0.00 |
| 70 | | Phenanthrene | 1.112 | 1.050 | 5.6 | 56 | 0.00 |
| 71 | | Anthracene | 1.136 | 1.079 | 5.0 | 56 | 0.00 |
| 72 | | Carbazole | 1.064 | 0.958 | 10.0 | 52 | 0.00 |
| 73 | | Di-n-butylphthalate | 1.291 | 1.347 | -4.3 | 61 | 0.00 |
| 74 | C | Fluoranthene | 1.167 | 0.990 | 15.2 | 50# | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 56 | 0.00 |
| 76 | | Benzidine | 0.845 | 0.641 | 24.1 | 43# | 0.00 |
| 77 | | Pyrene | 1.501 | 1.278 | 14.9 | 49# | 0.00 |
| 78 | S | Terphenyl-d14 | 0.830 | 0.742 | 10.6 | 54 | 0.00 |
| 79 | | Butylbenzylphthalate | 0.679 | 0.603 | 11.2 | 50 | 0.00 |
| 80 | | Benzo(a)anthracene | 1.321 | 1.234 | 6.6 | 54 | 0.00 |
| 81 | | 3,3'-Dichlorobenzidine | 0.431 | 0.444 | -3.0 | 58 | 0.00 |
| 82 | | Chrysene | 1.247 | 1.193 | 4.3 | 56 | 0.00 |
| 83 | | Bis(2-ethylhexyl)phthalate | 0.860 | 0.807 | 6.2 | 54 | 0.00 |
| 84 | c | Di-n-octyl phthalate | 1.534 | 1.466 | 4.4 | 55 | 0.00 |
| 85 | | Indeno(1,2,3-cd)pyrene | 1.110 | 1.350 | -21.6 | 73 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 70 | 0.00 |
| 87 | | Benzo(b)fluoranthene | 1.219 | 1.082 | 11.2 | 62 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 1.185 | 1.063 | 10.3 | 66 | 0.00 |
| 89 C | Benzo(a)pyrene | 1.124 | 1.042 | 7.3 | 67 | 0.00 |
| 90 | Dibenzo(a,h)anthracene | 0.965 | 0.944 | 2.2 | 73 | 0.01 |
| 91 | Benzo(g,h,i)perylene | 0.955 | 0.913 | 4.4 | 70 | 0.01 |

(#) = Out of Range SPCC's out = 2 CCC's out = 0