# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
Data File : BF101676.D
Acq On : 23 Dec 2017 2:43
Operator : SJ/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 23 03:55:28 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 22 16:07:58 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 | 84 | 0.00 |
| 2 | | 1,4-Dioxane | 0.690 | 0.666 | 3.5 | 80 | -0.02 |
| 3 | | Pyridine | 1.917 | 1.757 | 8.3 | 76 | -0.02 |
| 4 | | n-Nitrosodimethylamine | 0.883 | 0.827 | 6.3 | 77 | -0.01 |
| 5 | S | 2-Fluorophenol | 1.343 | 1.381 | -2.8 | 86 | 0.00 |
| 6 | | Aniline | 2.322 | 2.176 | 6.3 | 80 | 0.00 |
| 7 | S | Phenol-d6 | 1.671 | 1.563 | 6.5 | 82 | 0.00 |
| 8 | | 2-Chlorophenol | 1.412 | 1.374 | 2.7 | 84 | 0.00 |
| 9 | | Benzaldehyde | 1.234 | 1.128 | 8.6 | 77 | 0.00 |
| 10 | C | Phenol | 1.905 | 1.802 | 5.4 | 81 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.494 | 1.435 | 3.9 | 81 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.594 | 1.542 | 3.3 | 82 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.628 | 1.585 | 2.6 | 84 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.465 | 1.416 | 3.3 | 82 | 0.00 |
| 15 | | Benzyl Alcohol | 1.150 | 1.063 | 7.6 | 80 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.286 | 2.159 | 5.6 | 79 | 0.00 |
| 17 | | 2-Methylphenol | 1.299 | 1.198 | 7.8 | 82 | 0.00 |
| 18 | | Hexachloroethane | 0.566 | 0.485 | 14.3 | 73 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.097 | 1.005 | 8.4 | 83 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.377 | 1.447 | -5.1 | 89 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 22 | | Acetophenone | 0.456 | 0.465 | -2.0 | 83 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.359 | 0.360 | -0.3 | 80 | 0.00 |
| 24 | | Nitrobenzene | 0.398 | 0.402 | -1.0 | 82 | 0.00 |
| 25 | | Isophorone | 0.721 | 0.678 | 6.0 | 77 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.171 | 0.181 | -5.8 | 82 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.290 | 0.284 | 2.1 | 80 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.458 | 0.450 | 1.7 | 81 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.287 | 0.292 | -1.7 | 82 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.303 | 0.298 | 1.7 | 80 | 0.00 |
| 31 | | Naphthalene | 1.007 | 0.974 | 3.3 | 80 | 0.00 |
| 32 | | Benzoic acid | 0.173 | 0.179 | -3.5 | 86 | 0.00 |
| 33 | | 4-Chloroaniline | 0.438 | 0.429 | 2.1 | 81 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.175 | 0.176 | -0.6 | 82 | 0.00 |
| 35 | | Caprolactam | 0.100 | 0.094 | 6.0 | 76 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.315 | 0.309 | 1.9 | 79 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.656 | 0.624 | 4.9 | 79 | 0.00 |
| 38 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 76 | 0.00 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 0.675 | 0.697 | -3.3 | 81 | 0.00 |
| 40 | P | Hexachlorocyclopentadiene | 0.088 | 0.003# | 96.6# | 3# | 0.00 |
| 41 | S | 2,4,6-Tribromophenol | 0.193 | 0.183 | 5.2 | 73 | 0.00 |
| 42 | C | 2,4,6-Trichlorophenol | 0.407 | 0.428 | -5.2 | 79 | 0.00 |
| 43 | | 2,4,5-Trichlorophenol | 0.445 | 0.445 | 0.0 | 75 | 0.00 |
| 44 | S | 2-Fluorobiphenyl | 1.289 | 1.340 | -4.0 | 81 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 1.774 | 1.763 | 0.6 | 79 | 0.00 |
| 46 | | 2-Chloronaphthalene | 1.357 | 1.331 | 1.9 | 78 | 0.00 |
| 47 | | 2-Nitroaniline | 0.469 | 0.497 | -6.0 | 81 | 0.00 |
| 48 | | Acenaphthylene | 2.144 | 2.020 | 5.8 | 75 | 0.00 |
| 49 | | Dimethylphthalate | 1.609 | 1.523 | 5.3 | 76 | 0.00 |
| 50 | | 2,6-Dinitrotoluene | 0.327 | 0.320 | 2.1 | 73 | 0.00 |
| 51 | C | Acenaphthene | 1.288 | 1.224 | 5.0 | 76 | 0.00 |
| 52 | | 3-Nitroaniline | 0.408 | 0.419 | -2.7 | 77 | 0.00 |
| 53 | P | 2,4-Dinitrophenol | 0.087 | 0.007# | 92.0# | 6# | 0.02 |
| 54 | | Dibenzofuran | 1.637 | 1.685 | -2.9 | 79 | 0.00 |
| 55 | P | 4-Nitrophenol | 0.178 | 0.176 | 1.1 | 72 | 0.00 |
| 56 | | 2,4-Dinitrotoluene | 0.368 | 0.395 | -7.3 | 81 | 0.00 |
| 57 | | Fluorene | 1.385 | 1.388 | -0.2 | 77 | 0.00 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 0.320 | 0.316 | 1.3 | 75 | 0.00 |
| 59 | | Diethylphthalate | 1.593 | 1.563 | 1.9 | 80 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 0.664 | 0.685 | -3.2 | 78 | 0.00 |
| 61 | | 4-Nitroaniline | 0.410 | 0.380 | 7.3 | 71 | 0.00 |
| 62 | | Azobenzene | 1.650 | 1.506 | 8.7 | 74 | 0.00 |
| 63 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 69 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.102 | 0.031 | 69.6# | 20# | 0.00 |
| 65 | c | n-Nitrosodiphenylamine | 0.738 | 0.781 | -5.8 | 76 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 0.225 | 0.243 | -8.0 | 76 | 0.00 |
| 67 | | Hexachlorobenzene | 0.238 | 0.239 | -0.4 | 71 | 0.00 |
| 68 | | Atrazine | 0.220 | 0.216 | 1.8 | 68 | 0.00 |
| 69 | C | Pentachlorophenol | 0.079 | 0.115 | -45.6# | 99 | 0.00 |
| 70 | | Phenanthrene | 1.112 | 1.054 | 5.2 | 69 | 0.00 |
| 71 | | Anthracene | 1.136 | 1.087 | 4.3 | 69 | 0.00 |
| 72 | | Carbazole | 1.064 | 0.999 | 6.1 | 68 | 0.00 |
| 73 | | Di-n-butylphthalate | 1.291 | 1.352 | -4.7 | 76 | 0.00 |
| 74 | C | Fluoranthene | 1.167 | 1.007 | 13.7 | 63 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 60 | 0.00 |
| 76 | | Benzidine | 0.845 | 0.730 | 13.6 | 52 | 0.00 |
| 77 | | Pyrene | 1.501 | 1.488 | 0.9 | 61 | 0.00 |
| 78 | S | Terphenyl-d14 | 0.830 | 0.865 | -4.2 | 67 | 0.00 |
| 79 | | Butylbenzylphthalate | 0.679 | 0.724 | -6.6 | 64 | 0.00 |
| 80 | | Benzo(a)anthracene | 1.321 | 1.256 | 4.9 | 59 | 0.00 |
| 81 | | 3,3'-Dichlorobenzidine | 0.431 | 0.438 | -1.6 | 61 | 0.00 |
| 82 | | Chrysene | 1.247 | 1.203 | 3.5 | 60 | 0.00 |
| 83 | | Bis(2-ethylhexyl)phthalate | 0.860 | 0.939 | -9.2 | 67 | 0.00 |
| 84 | c | Di-n-octyl phthalate | 1.534 | 1.609 | -4.9 | 64 | 0.00 |
| 85 | | Indeno(1,2,3-cd)pyrene | 1.110 | 1.109 | 0.1 | 64 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 62 | 0.00 |
| 87 | | Benzo(b)fluoranthene | 1.219 | 1.122 | 8.0 | 57 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 1.185 | 1.194 | -0.8 | 66 | 0.00 |
| 89 C | Benzo(a)pyrene | 1.124 | 1.088 | 3.2 | 62 | 0.00 |
| 90 | Dibenzo(a,h)anthracene | 0.965 | 0.953 | 1.2 | 65 | 0.00 |
| 91 | Benzo(g,h,i)perylene | 0.955 | 0.897 | 6.1 | 61 | 0.00 |

(#) = Out of Range SPCC's out = 2 CCC's out = 1