# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\
Data File : BF091901.D
Acq On : 23 Dec 2016 3:03
Operator : UM/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 23 04:25:59 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 21 16:17:51 2016
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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 83 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 41.244 | -3.1 | 84 | 0.00 |
| 3 | | Pyridine | 40.000 | 42.008 | -5.0 | 84 | -0.01 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 42.459 | -6.1 | 84 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 82.425 | -3.0 | 88 | 0.05 |
| 6 | | Aniline | 40.000 | 41.096 | -2.7 | 85 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 79.379 | 0.8 | 81 | 0.03 |
| 8 | | 2-Chlorophenol | 40.000 | 39.415 | 1.5 | 80 | 0.01 |
| 9 | | Benzaldehyde | 40.000 | 42.053 | -5.1 | 84 | 0.00 |
| 10 | C | Phenol | 40.000 | 37.974 | 5.1 | 72 | 0.03 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 41.243 | -3.1 | 79 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 41.371 | -3.4 | 81 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 40.459 | -1.1 | 82 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 38.033 | 4.9 | 80 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 37.110 | 7.2 | 76 | 0.01 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 39.437 | 1.4 | 81 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 38.643 | 3.4 | 80 | 0.03 |
| 18 | | Hexachloroethane | 40.000 | 38.798 | 3.0 | 76 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 40.815 | -2.0 | 80 | -0.01 |
| 20 | | 3+4-Methylphenols | 40.000 | 43.853 | -9.6 | 86 | 0.02 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 84 | 0.00 |
| 22 | | Acetophenone | 40.000 | 39.498 | 1.3 | 82 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 68.714 | 14.1 | 75 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 39.341 | 1.6 | 75 | 0.00 |
| 25 | | Isophorone | 40.000 | 37.756 | 5.6 | 80 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 27.811 | 30.5# | 60 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 33.068 | 17.3 | 64 | 0.01 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 36.489 | 8.8 | 75 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 34.880 | 12.8 | 71 | 0.01 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 38.837 | 2.9 | 78 | 0.00 |
| 31 | | Naphthalene | 40.000 | 40.254 | -0.6 | 77 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 13.192 | 67.0# | 26 | -0.01 |
| 33 | | 4-Chloroaniline | 40.000 | 36.045 | 9.9 | 74 | 0.01 |
| 34 | C | Hexachlorobutadiene | 40.000 | 40.401 | -1.0 | 83 | 0.00 |
| 35 | | Caprolactam | 40.000 | 35.081 | 12.3 | 72 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 33.087 | 17.3 | 65 | 0.02 |
| 37 | | 2-Methylnaphthalene | 40.000 | 36.858 | 7.9 | 80 | 0.00 |
| 38 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 79 | 0.00 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 43.321 | -8.3 | 77 | 0.00 |
| 40 | P | Hexachlorocyclopentadiene | 40.000 | 18.885 | 52.8# | 30 | -0.01 |
| 41 | S | 2,4,6-Tribromophenol | 80.000 | 56.653 | 29.2# | 58 | 0.00 |
| 42 | C | 2,4,6-Trichlorophenol | 40.000 | 36.253 | 9.4 | 65 | 0.01 |
| 43 | | 2,4,5-Trichlorophenol | 40.000 | 30.815 | 23.0 | 59 | 0.01 |
| 44 | S | 2-Fluorobiphenyl | 80.000 | 83.403 | -4.3 | 80 | 0.00 |

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| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 40.000 | 44.698 | -11.7 | 78 | 0.00 |
| 46 | | 2-Chloronaphthalene | 40.000 | 40.841 | -2.1 | 77 | 0.00 |
| 47 | | 2-Nitroaniline | 40.000 | 32.842 | 17.9 | 57 | 0.00 |
| 48 | | Acenaphthylene | 40.000 | 39.942 | 0.1 | 78 | 0.00 |
| 49 | | Dimethylphthalate | 40.000 | 42.528 | -6.3 | 80 | 0.00 |
| 50 | | 2,6-Dinitrotoluene | 40.000 | 35.489 | 11.3 | 69 | 0.00 |
| 51 | C | Acenaphthene | 40.000 | 36.912 | 7.7 | 74 | 0.00 |
| 52 | | 3-Nitroaniline | 40.000 | 33.366 | 16.6 | 58 | 0.00 |
| 53 | P | 2,4-Dinitrophenol | 40.000 | 3.142 | 92.1# | 5 | 0.00 |
| 54 | | Dibenzofuran | 40.000 | 36.474 | 8.8 | 78 | 0.00 |
| 55 | P | 4-Nitrophenol | 40.000 | 19.269 | 51.8# | 35 | 0.03 |
| 56 | | 2,4-Dinitrotoluene | 40.000 | 31.899 | 20.3 | 65 | 0.00 |
| 57 | | Fluorene | 40.000 | 40.403 | -1.0 | 77 | 0.00 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 28.474 | 28.8# | 52 | 0.00 |
| 59 | | Diethylphthalate | 40.000 | 38.387 | 4.0 | 70 | -0.01 |
| 60 | | 4-Chlorophenyl-phenylether | 40.000 | 40.190 | -0.5 | 80 | 0.00 |
| 61 | | 4-Nitroaniline | 40.000 | 34.223 | 14.4 | 60 | 0.00 |
| 62 | | Azobenzene | 40.000 | 36.439 | 8.9 | 73 | 0.00 |
| 63 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 68 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 40.000 | 8.895 | 77.8# | 14 | 0.00 |
| 65 | c | n-Nitrosodiphenylamine | 40.000 | 44.348 | -10.9 | 76 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 40.000 | 43.086 | -7.7 | 74 | 0.00 |
| 67 | | Hexachlorobenzene | 40.000 | 43.366 | -8.4 | 72 | 0.00 |
| 68 | | Atrazine | 40.000 | 39.682 | 0.8 | 68 | 0.00 |
| 69 | C | Pentachlorophenol | 40.000 | 20.105 | 49.7# | 30 | 0.01 |
| 70 | | Phenanthrene | 40.000 | 40.344 | -0.9 | 66 | 0.00 |
| 71 | | Anthracene | 40.000 | 38.724 | 3.2 | 68 | 0.00 |
| 72 | | Carbazole | 40.000 | 38.516 | 3.7 | 68 | 0.01 |
| 73 | | Di-n-butylphthalate | 40.000 | 47.923 | -19.8 | 76 | 0.00 |
| 74 | C | Fluoranthene | 40.000 | 37.495 | 6.3 | 64 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 62 | 0.00 |
| 76 | | Benzidine | 40.000 | 30.090 | 24.8 | 47 | 0.01 |
| 77 | | Pyrene | 40.000 | 36.052 | 9.9 | 60 | 0.00 |
| 78 | S | Terphenyl-d14 | 80.000 | 73.071 | 8.7 | 63 | 0.00 |
| 79 | | Butylbenzylphthalate | 40.000 | 42.151 | -5.4 | 61 | 0.00 |
| 80 | | Benzo(a)anthracene | 40.000 | 37.432 | 6.4 | 59 | 0.00 |
| 81 | | 3,3'-Dichlorobenzidine | 40.000 | 36.607 | 8.5 | 61 | 0.00 |
| 82 | | Chrysene | 40.000 | 35.918 | 10.2 | 62 | 0.00 |
| 83 | | Bis(2-ethylhexyl)phthalate | 40.000 | 47.119 | -17.8 | 74 | 0.00 |
| 84 | c | Di-n-octyl phthalate | 40.000 | 41.485 | -3.7 | 65 | 0.00 |
| 85 | | Indeno(1,2,3-cd)pyrene | 40.000 | 36.928 | 7.7 | 59 | 0.01 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 67 | 0.00 |
| 87 | | Benzo(b)fluoranthene | 40.000 | 37.687 | 5.8 | 59 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 40.000 | 41.964 | -4.9 | 73 | 0.00 |
| 89 C | Benzo(a)pyrene | 40.000 | 39.382 | 1.5 | 65 | 0.00 |
| 90 | Dibenzo(a,h)anthracene | 40.000 | 37.330 | 6.7 | 61 | 0.00 |
| 91 | Benzo(g,h,i)perylene | 40.000 | 34.236 | 14.4 | 56 | 0.00 |

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