# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053116\
Data File : BF087584.D
Acq On : 31 May 2016 16:43
Operator : UM/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Jun 01 11:27:11 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 25 16:26:52 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 | 85 | -0.07 |
| 2 | | 1,4-Dioxane | 40.000 | 36.230 | 9.4 | 78 | -0.08 |
| 3 | | Pyridine | 40.000 | 35.371 | 11.6 | 70 | -0.09 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 41.615 | -4.0 | 85 | -0.08 |
| 5 | S | 2-Fluorophenol | 80.000 | 84.236 | -5.3 | 84 | -0.07 |
| 6 | | Aniline | 40.000 | 40.615 | -1.5 | 83 | -0.07 |
| 7 | S | Phenol-d6 | 80.000 | 79.642 | 0.4 | 84 | -0.06 |
| 8 | | 2-Chlorophenol | 40.000 | 39.572 | 1.1 | 83 | -0.07 |
| 9 | | Benzaldehyde | 40.000 | 37.790 | 5.5 | 87 | -0.06 |
| 10 | C | Phenol | 40.000 | 40.082 | -0.2 | 92 | -0.05 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 38.703 | 3.2 | 83 | -0.07 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 37.920 | 5.2 | 81 | -0.08 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 38.409 | 4.0 | 82 | -0.08 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 39.396 | 1.5 | 85 | -0.08 |
| 15 | | Benzyl Alcohol | 40.000 | 41.679 | -4.2 | 83 | -0.06 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 37.016 | 7.5 | 80 | -0.08 |
| 17 | | 2-Methylphenol | 40.000 | 37.948 | 5.1 | 81 | -0.06 |
| 18 | | Hexachloroethane | 40.000 | 39.735 | 0.7 | 84 | -0.08 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 38.749 | 3.1 | 83 | -0.07 |
| 20 | | 3+4-Methylphenols | 40.000 | 43.172 | -7.9 | 87 | -0.06 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 83 | -0.08 |
| 22 | | Acetophenone | 40.000 | 40.901 | -2.3 | 85 | -0.07 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 80.580 | -0.7 | 81 | -0.07 |
| 24 | | Nitrobenzene | 40.000 | 40.423 | -1.1 | 81 | -0.08 |
| 25 | | Isophorone | 40.000 | 39.667 | 0.8 | 82 | -0.08 |
| 26 | C | 2-Nitrophenol | 40.000 | 41.578 | -3.9 | 81 | -0.07 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 39.889 | 0.3 | 82 | -0.06 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 39.644 | 0.9 | 84 | -0.07 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 41.907 | -4.8 | 84 | -0.05 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 38.947 | 2.6 | 81 | -0.08 |
| 31 | | Naphthalene | 40.000 | 39.157 | 2.1 | 84 | -0.08 |
| 32 | | Benzoic acid | 40.000 | 39.855 | 0.4 | 81 | 0.00 |
| 33 | | 4-Chloroaniline | 40.000 | 41.706 | -4.3 | 85 | -0.06 |
| 34 | C | Hexachlorobutadiene | 40.000 | 38.850 | 2.9 | 81 | -0.09 |
| 35 | | Caprolactam | 40.000 | 42.618 | -6.5 | 86 | -0.05 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 43.668 | -9.2 | 87 | -0.05 |
| 37 | | 2-Methylnaphthalene | 40.000 | 40.185 | -0.5 | 85 | -0.08 |
| 38 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 88 | -0.08 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 38.063 | 4.8 | 84 | -0.08 |
| 40 | P | Hexachlorocyclopentadiene | 40.000 | 25.233 | 36.9# | 44 | -0.08 |
| 41 | S | 2,4,6-Tribromophenol | 80.000 | 78.460 | 1.9 | 83 | -0.07 |
| 42 | C | 2,4,6-Trichlorophenol | 40.000 | 38.751 | 3.1 | 81 | -0.06 |
| 43 | | 2,4,5-Trichlorophenol | 40.000 | 34.625 | 13.4 | 75 | -0.05 |
| 44 | S | 2-Fluorobiphenyl | 80.000 | 72.016 | 10.0 | 81 | -0.08 |

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| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 40.000 | 37.775 | 5.6 | 86 | -0.08 |
| 46 | | 2-Chloronaphthalene | 40.000 | 38.815 | 3.0 | 86 | -0.07 |
| 47 | | 2-Nitroaniline | 40.000 | 42.876 | -7.2 | 91 | -0.06 |
| 48 | | Acenaphthylene | 40.000 | 37.586 | 6.0 | 83 | -0.08 |
| 49 | | Dimethylphthalate | 40.000 | 37.854 | 5.4 | 83 | -0.08 |
| 50 | | 2,6-Dinitrotoluene | 40.000 | 38.218 | 4.5 | 83 | -0.07 |
| 51 | C | Acenaphthene | 40.000 | 37.669 | 5.8 | 86 | -0.08 |
| 52 | | 3-Nitroaniline | 40.000 | 41.640 | -4.1 | 89 | -0.06 |
| 53 | P | 2,4-Dinitrophenol | 40.000 | 37.926 | 5.2 | 77 | -0.02 |
| 54 | | Dibenzofuran | 40.000 | 38.921 | 2.7 | 88 | -0.07 |
| 55 | P | 4-Nitrophenol | 40.000 | 34.835 | 12.9 | 75 | 0.00 |
| 56 | | 2,4-Dinitrotoluene | 40.000 | 42.815 | -7.0 | 90 | -0.06 |
| 57 | | Fluorene | 40.000 | 37.702 | 5.7 | 84 | -0.08 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 36.403 | 9.0 | 75 | -0.07 |
| 59 | | Diethylphthalate | 40.000 | 38.908 | 2.7 | 87 | -0.08 |
| 60 | | 4-Chlorophenyl-phenylether | 40.000 | 36.416 | 9.0 | 81 | -0.08 |
| 61 | | 4-Nitroaniline | 40.000 | 39.646 | 0.9 | 78 | -0.05 |
| 62 | | Azobenzene | 40.000 | 42.524 | -6.3 | 89 | -0.08 |
| 63 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 88 | -0.07 |
| 64 | | 4,6-Dinitro-2-methylphenol | 40.000 | 38.282 | 4.3 | 76 | -0.05 |
| 65 | c | n-Nitrosodiphenylamine | 40.000 | 39.535 | 1.2 | 85 | -0.08 |
| 66 | | 4-Bromophenyl-phenylether | 40.000 | 39.128 | 2.2 | 85 | -0.08 |
| 67 | | Hexachlorobenzene | 40.000 | 39.744 | 0.6 | 86 | -0.08 |
| 68 | | Atrazine | 40.000 | 24.265 | 39.3# | 52 | -0.07 |
| 69 | C | Pentachlorophenol | 40.000 | 31.571 | 21.1# | 62 | -0.05 |
| 70 | | Phenanthrene | 40.000 | 40.220 | -0.5 | 89 | -0.07 |
| 71 | | Anthracene | 40.000 | 41.209 | -3.0 | 91 | -0.07 |
| 72 | | Carbazole | 40.000 | 41.428 | -3.6 | 90 | -0.06 |
| 73 | | Di-n-butylphthalate | 40.000 | 40.267 | -0.7 | 84 | -0.07 |
| 74 | C | Fluoranthene | 40.000 | 42.087 | -5.2 | 90 | -0.07 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 96 | -0.06 |
| 76 | | Benzidine | 40.000 | 43.055 | -7.6 | 94 | -0.06 |
| 77 | | Pyrene | 40.000 | 39.379 | 1.6 | 94 | -0.06 |
| 78 | S | Terphenyl-d14 | 80.000 | 73.841 | 7.7 | 87 | -0.07 |
| 79 | | Butylbenzylphthalate | 40.000 | 39.199 | 2.0 | 88 | -0.07 |
| 80 | | Benzo(a)anthracene | 40.000 | 38.884 | 2.8 | 93 | -0.05 |
| 81 | | 3,3'-Dichlorobenzidine | 40.000 | 40.929 | -2.3 | 101 | -0.07 |
| 82 | | Chrysene | 40.000 | 38.025 | 4.9 | 94 | -0.06 |
| 83 | | Bis(2-ethylhexyl)phthalate | 40.000 | 36.208 | 9.5 | 85 | -0.07 |
| 84 | c | Di-n-octyl phthalate | 40.000 | 36.885 | 7.8 | 82 | -0.08 |
| 85 | | Indeno(1,2,3-cd)pyrene | 40.000 | 34.906 | 12.7 | 82 | -0.05 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 82 | -0.02 |
| 87 | | Benzo(b)fluoranthene | 40.000 | 33.936 | 15.2 | 65 | -0.03 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 40.000 | 50.978 | -27.4# | 123 | -0.03 |
| 89 C | Benzo(a)pyrene | 40.000 | 39.178 | 2.1 | 83 | -0.03 |
| 90 | Dibenzo(a,h)anthracene | 40.000 | 40.396 | -1.0 | 82 | -0.05 |
| 91 | Benzo(g,h,i)perylene | 40.000 | 37.723 | 5.7 | 76 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1