# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF122818\
Data File : BF111786.D
Acq On : 28 Dec 2018 13:58
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 29 01:15:35 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 19 17:39:39 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 | 77 | 0.00 |
| 2 | | 1,4-Dioxane | 0.552 | 0.466 | 15.6 | 67 | -0.01 |
| 3 | | Pyridine | 1.438 | 1.240 | 13.8 | 69 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.704 | 0.622 | 11.6 | 70 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.173 | 1.080 | 7.9 | 73 | 0.02 |
| 6 | | Aniline | 1.903 | 1.664 | 12.6 | 68 | 0.01 |
| 7 | S | Phenol-d6 | 1.493 | 1.369 | 8.3 | 72 | 0.03 |
| 8 | | 2-Chlorophenol | 1.300 | 1.221 | 6.1 | 73 | 0.02 |
| 9 | | Benzaldehyde | 1.027 | 0.860 | 16.3 | 67 | 0.00 |
| 10 | C | Phenol | 1.685 | 1.466 | 13.0 | 68 | 0.03 |
| 11 | | bis(2-Chloroethyl)ether | 1.263 | 1.159 | 8.2 | 72 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.506 | 1.431 | 5.0 | 74 | 0.01 |
| 13 | C | 1,4-Dichlorobenzene | 1.528 | 1.441 | 5.7 | 74 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.425 | 1.350 | 5.3 | 74 | 0.01 |
| 15 | | Benzyl Alcohol | 1.186 | 1.125 | 5.1 | 74 | 0.01 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.325 | 1.900 | 18.3 | 64 | 0.00 |
| 17 | | 2-Methylphenol | 1.041 | 0.963 | 7.5 | 72 | 0.03 |
| 18 | | Hexachloroethane | 0.515 | 0.513 | 0.4 | 77 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 0.992 | 0.887 | 10.6 | 71 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.315 | 1.223 | 7.0 | 72 | 0.02 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 79 | 0.01 |
| 22 | | Acetophenone | 0.507 | 0.477 | 5.9 | 75 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.344 | 0.359 | -4.4 | 78 | 0.01 |
| 24 | | Nitrobenzene | 0.360 | 0.362 | -0.6 | 75 | 0.01 |
| 25 | | Isophorone | 0.610 | 0.566 | 7.2 | 72 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.146 | 0.182 | -24.7# | 90 | 0.01 |
| 27 | | 2,4-Dimethylphenol | 0.288 | 0.262 | 9.0 | 70 | 0.02 |
| 28 | | bis(2-Chloroethoxy)methane | 0.406 | 0.375 | 7.6 | 72 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.310 | 0.298 | 3.9 | 74 | 0.02 |
| 30 | | 1,2,4-Trichlorobenzene | 0.345 | 0.330 | 4.3 | 75 | 0.01 |
| 31 | | Naphthalene | 0.961 | 0.917 | 4.6 | 75 | 0.00 |
| 32 | | Benzoic acid | 0.190 | 0.157 | 17.4 | 63 | 0.02 |
| 33 | | 4-Chloroaniline | 0.415 | 0.397 | 4.3 | 74 | 0.01 |
| 34 | C | Hexachlorobutadiene | 0.210 | 0.207 | 1.4 | 77 | 0.00 |
| 35 | | Caprolactam | 0.105 | 0.098 | 6.7 | 73 | 0.01 |
| 36 | C | 4-Chloro-3-methylphenol | 0.304 | 0.297 | 2.3 | 76 | 0.02 |
| 37 | | 2-Methylnaphthalene | 0.625 | 0.602 | 3.7 | 75 | 0.01 |
| 38 | | 1-Methylnaphthalene | 0.600 | 0.575 | 4.2 | 75 | 0.01 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 80 | 0.01 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.657 | 0.634 | 3.5 | 77 | 0.01 |
| 41 | P | Hexachlorocyclopentadiene | 0.319 | 0.352 | -10.3 | 86 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.236 | 0.245 | -3.8 | 81 | 0.02 |
| 43 | C | 2,4,6-Trichlorophenol | 0.439 | 0.424 | 3.4 | 78 | 0.02 |
| 44 | | 2,4,5-Trichlorophenol | 0.450 | 0.443 | 1.6 | 77 | 0.02 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 1.372 | 1.314 | 4.2 | 78 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.688 | 1.624 | 3.8 | 77 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.338 | 1.261 | 5.8 | 76 | 0.01 |
| 48 | | 2-Nitroaniline | 0.348 | 0.394 | -13.2 | 87 | 0.01 |
| 49 | | Acenaphthylene | 1.953 | 1.864 | 4.6 | 77 | 0.01 |
| 50 | | Dimethylphthalate | 1.463 | 1.428 | 2.4 | 78 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.292 | 0.325 | -11.3 | 86 | 0.01 |
| 52 | C | Acenaphthene | 1.205 | 1.181 | 2.0 | 80 | 0.01 |
| 53 | | 3-Nitroaniline | 0.311 | 0.353 | -13.5 | 82 | 0.01 |
| 54 | P | 2,4-Dinitrophenol | 0.079 | 0.127 | -60.8# | 127 | 0.02 |
| 55 | | Dibenzofuran | 1.820 | 1.744 | 4.2 | 77 | 0.01 |
| 56 | P | 4-Nitrophenol | 0.237 | 0.251 | -5.9 | 77 | 0.04 |
| 57 | | 2,4-Dinitrotoluene | 0.350 | 0.430 | -22.9 | 93 | 0.02 |
| 58 | | Fluorene | 1.311 | 1.274 | 2.8 | 79 | 0.01 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.379 | 0.375 | 1.1 | 78 | 0.02 |
| 60 | | Diethylphthalate | 1.435 | 1.398 | 2.6 | 77 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.724 | 0.711 | 1.8 | 80 | 0.00 |
| 62 | | 4-Nitroaniline | 0.302 | 0.337 | -11.6 | 86 | 0.02 |
| 63 | | Azobenzene | 1.440 | 1.362 | 5.4 | 75 | 0.01 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 81 | 0.02 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.075 | 0.111 | -48.0# | 115 | 0.02 |
| 66 | c | n-Nitrosodiphenylamine | 0.671 | 0.647 | 3.6 | 77 | 0.01 |
| 67 | | 4-Bromophenyl-phenylether | 0.248 | 0.239 | 3.6 | 79 | 0.01 |
| 68 | | Hexachlorobenzene | 0.277 | 0.270 | 2.5 | 78 | 0.01 |
| 69 | | Atrazine | 0.233 | 0.224 | 3.9 | 78 | 0.01 |
| 70 | C | Pentachlorophenol | 0.171 | 0.154 | 9.9 | 69 | 0.02 |
| 71 | | Phenanthrene | 1.061 | 1.003 | 5.5 | 77 | 0.02 |
| 72 | | Anthracene | 1.065 | 1.011 | 5.1 | 77 | 0.02 |
| 73 | | Carbazole | 1.034 | 0.977 | 5.5 | 77 | 0.02 |
| 74 | | Di-n-butylphthalate | 1.159 | 1.110 | 4.2 | 77 | 0.00 |
| 75 | C | Fluoranthene | 1.074 | 1.006 | 6.3 | 76 | 0.02 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 76 | 0.02 |
| 77 | | Benzidine | 0.753 | 0.706 | 6.2 | 71 | 0.02 |
| 78 | | Pyrene | 1.412 | 1.411 | 0.1 | 75 | 0.02 |
| 79 | S | Terphenyl-d14 | 1.055 | 1.068 | -1.2 | 78 | 0.02 |
| 80 | | Butylbenzylphthalate | 0.576 | 0.583 | -1.2 | 74 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.141 | 1.116 | 2.2 | 76 | 0.02 |
| 82 | | 3,3'-Dichlorobenzidine | 0.451 | 0.427 | 5.3 | 70 | 0.02 |
| 83 | | Chrysene | 1.122 | 1.059 | 5.6 | 72 | 0.02 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.725 | 0.755 | -4.1 | 78 | 0.01 |
| 85 | c | Di-n-octyl phthalate | 1.124 | 1.081 | 3.8 | 72 | 0.01 |
| 86 | | Indeno(1,2,3-cd)pyrene | 0.954 | 0.867 | 9.1 | 69 | 0.06 |
| 87 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 71 | 0.04 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 1.169 | 1.089 | 6.8 | 64 | 0.04 |
| 89 | Benzo(k)fluoranthene | 1.113 | 1.117 | -0.4 | 73 | 0.03 |
| 90 C | Benzo(a)pyrene | 1.062 | 1.011 | 4.8 | 67 | 0.04 |
| 91 | Dibenzo(a,h)anthracene | 0.930 | 0.953 | -2.5 | 70 | 0.06 |
| 92 | Benzo(g,h,i)perylene | 0.908 | 0.947 | -4.3 | 71 | 0.08 |

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