# Evaluate Continuing Calibration Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092019\
Data File : BF117185.D
Acq On : 20 Sep 2019 13:57
Operator : HP/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Sep 20 23:05:42 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 13 16:23:17 2019
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 | 52 | 0.00 |
| 2 | | 1,4-Dioxane | 0.536 | 0.460 | 14.2 | 48# | 0.01 |
| 3 | | Pyridine | 1.467 | 1.216 | 17.1 | 44# | 0.01 |
| 4 | | n-Nitrosodimethylamine | 0.504 | 0.539 | -6.9 | 60 | 0.02 |
| 5 | S | 2-Fluorophenol | 1.281 | 1.237 | 3.4 | 52 | 0.00 |
| 6 | | Aniline | 2.132 | 2.066 | 3.1 | 53 | 0.00 |
| 7 | S | Phenol-d6 | 1.656 | 1.630 | 1.6 | 54 | 0.00 |
| 8 | | 2-Chlorophenol | 1.382 | 1.381 | 0.1 | 54 | 0.00 |
| 9 | | Benzaldehyde | 0.904 | 0.872 | 3.5 | 53 | 0.00 |
| 10 | C | Phenol | 1.825 | 1.765 | 3.3 | 53 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.341 | 1.313 | 2.1 | 55 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.551 | 1.583 | -2.1 | 56 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.583 | 1.621 | -2.4 | 55 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.473 | 1.542 | -4.7 | 57 | 0.00 |
| 15 | | Benzyl Alcohol | 1.270 | 1.360 | -7.1 | 58 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 1.325 | 1.313 | 0.9 | 54 | 0.00 |
| 17 | | 2-Methylphenol | 1.158 | 1.161 | -0.3 | 56 | 0.00 |
| 18 | | Hexachloroethane | 0.609 | 0.658 | -8.0 | 59 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.008 | 1.119 | -11.0 | 62 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.443 | 1.522 | -5.5 | 58 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 57 | 0.00 |
| 22 | | Acetophenone | 0.508 | 0.512 | -0.8 | 61 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.381 | 0.372 | 2.4 | 58 | 0.00 |
| 24 | | Nitrobenzene | 0.376 | 0.357 | 5.1 | 57 | 0.00 |
| 25 | | Isophorone | 0.674 | 0.655 | 2.8 | 60 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.161 | 0.154 | 4.3 | 56 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.256 | 0.238 | 7.0 | 56 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.415 | 0.406 | 2.2 | 60 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.268 | 0.258 | 3.7 | 56 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.290 | 0.288 | 0.7 | 60 | 0.00 |
| 31 | | Naphthalene | 0.962 | 0.936 | 2.7 | 58 | 0.00 |
| 32 | | Benzoic acid | 0.180 | 0.156 | 13.3 | 54 | 0.04 |
| 33 | | 4-Chloroaniline | 0.427 | 0.400 | 6.3 | 56 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.164 | 0.180 | -9.8 | 65 | 0.00 |
| 35 | | Caprolactam | 0.091 | 0.075 | 17.6 | 50# | 0.02 |
| 36 | C | 4-Chloro-3-methylphenol | 0.313 | 0.302 | 3.5 | 58 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.648 | 0.654 | -0.9 | 61 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.607 | 0.613 | -1.0 | 61 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 60 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.516 | 0.518 | -0.4 | 63 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.194 | 0.222 | -14.4 | 75 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.167 | 0.179 | -7.2 | 66 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.350 | 0.331 | 5.4 | 59 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.374 | 0.338 | 9.6 | 58 | 0.01 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 1.279 | 1.376 | -7.6 | 68 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.569 | 1.554 | 1.0 | 63 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.238 | 1.185 | 4.3 | 60 | 0.00 |
| 48 | | 2-Nitroaniline | 0.397 | 0.372 | 6.3 | 60 | 0.00 |
| 49 | | Acenaphthylene | 1.855 | 1.727 | 6.9 | 58 | 0.00 |
| 50 | | Dimethylphthalate | 1.416 | 1.399 | 1.2 | 62 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.288 | 0.277 | 3.8 | 61 | 0.00 |
| 52 | C | Acenaphthene | 1.099 | 1.051 | 4.4 | 60 | 0.00 |
| 53 | | 3-Nitroaniline | 0.364 | 0.322 | 11.5 | 55 | 0.01 |
| 54 | P | 2,4-Dinitrophenol | 0.102 | 0.097 | 4.9 | 63 | 0.02 |
| 55 | | Dibenzofuran | 1.622 | 1.574 | 3.0 | 61 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.236 | 0.213 | 9.7 | 56 | 0.02 |
| 57 | | 2,4-Dinitrotoluene | 0.374 | 0.365 | 2.4 | 60 | 0.01 |
| 58 | | Fluorene | 1.307 | 1.315 | -0.6 | 63 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.287 | 0.271 | 5.6 | 57 | 0.00 |
| 60 | | Diethylphthalate | 1.393 | 1.439 | -3.3 | 65 | 0.01 |
| 61 | | 4-Chlorophenyl-phenylether | 0.565 | 0.605 | -7.1 | 66 | 0.00 |
| 62 | | 4-Nitroaniline | 0.378 | 0.321 | 15.1 | 53 | 0.01 |
| 63 | | Azobenzene | 1.423 | 1.437 | -1.0 | 63 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 57 | 0.01 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.084 | 0.083 | 1.2 | 61 | 0.01 |
| 66 | c | n-Nitrosodiphenylamine | 0.691 | 0.690 | 0.1 | 61 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.204 | 0.218 | -6.9 | 65 | 0.00 |
| 68 | | Hexachlorobenzene | 0.223 | 0.231 | -3.6 | 64 | 0.00 |
| 69 | | Atrazine | 0.170 | 0.176 | -3.5 | 58 | 0.01 |
| 70 | C | Pentachlorophenol | 0.105 | 0.128 | -21.9# | 74 | 0.01 |
| 71 | | Phenanthrene | 1.136 | 1.108 | 2.5 | 59 | 0.00 |
| 72 | | Anthracene | 1.160 | 1.113 | 4.1 | 58 | 0.00 |
| 73 | | Carbazole | 1.101 | 0.980 | 11.0 | 53 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.310 | 1.468 | -12.1 | 67 | 0.00 |
| 75 | C | Fluoranthene | 1.167 | 1.079 | 7.5 | 55 | 0.01 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 48# | 0.01 |
| 77 | | Benzidine | 0.644 | 0.526 | 18.3 | 41# | 0.01 |
| 78 | | Pyrene | 1.678 | 1.669 | 0.5 | 54 | 0.01 |
| 79 | S | Terphenyl-d14 | 1.070 | 1.265 | -18.2 | 63 | 0.01 |
| 80 | | Butylbenzylphthalate | 0.793 | 0.884 | -11.5 | 59 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.336 | 1.284 | 3.9 | 50# | 0.01 |
| 82 | | 3,3'-Dichlorobenzidine | 0.431 | 0.403 | 6.5 | 48# | 0.00 |
| 83 | | Chrysene | 1.303 | 1.226 | 5.9 | 49# | 0.01 |
| 84 | | Bis(2-ethylhexyl)phthalate | 1.022 | 1.265 | -23.8 | 66 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 1.609 | 1.899 | -18.0 | 61 | 0.00 |
| 86 | | Indeno(1,2,3-cd)pyrene | 0.951 | 0.840 | 11.7 | 51 | 0.03 |
| 87 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 43# | 0.01 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 1.211 | 1.180 | 2.6 | 46# | 0.01 |
| 89 | Benzo(k)fluoranthene | 1.148 | 1.170 | -1.9 | 45# | 0.01 |
| 90 C | Benzo(a)pyrene | 1.063 | 1.019 | 4.1 | 44# | 0.01 |
| 91 | Dibenzo(a,h)anthracene | 0.847 | 0.896 | -5.8 | 54 | 0.02 |
| 92 | Benzo(g,h,i)perylene | 0.844 | 0.785 | 7.0 | 48# | 0.04 |

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