# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF102318\
Data File : BF110078.D
Acq On : 23 Oct 2018 14:49
Operator : JU/SJ
Sample : SSTDICV040
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ICVBF102318

Quant Time: Nov 05 15:19:24 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 01 16:06:12 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 | 95 | 0.01 |
| 2 | | 1,4-Dioxane | 0.643 | 0.632 | 1.7 | 95 | 0.01 |
| 3 | | Pyridine | 1.433 | 1.452 | -1.3 | 93 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.600 | 0.614 | -2.3 | 95 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.228 | 1.201 | 2.2 | 93 | 0.00 |
| 6 | | Aniline | 2.046 | 2.042 | 0.2 | 94 | 0.01 |
| 7 | S | Phenol-d6 | 1.571 | 1.532 | 2.5 | 94 | 0.00 |
| 8 | | 2-Chlorophenol | 1.416 | 1.418 | -0.1 | 95 | 0.00 |
| 9 | | Benzaldehyde | 0.954 | 0.927 | 2.8 | 94 | 0.01 |
| 10 | C | Phenol | 1.679 | 1.657 | 1.3 | 94 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.381 | 1.357 | 1.7 | 95 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.558 | 1.539 | 1.2 | 95 | 0.01 |
| 13 | C | 1,4-Dichlorobenzene | 1.576 | 1.538 | 2.4 | 94 | 0.01 |
| 14 | | 1,2-Dichlorobenzene | 1.463 | 1.449 | 1.0 | 95 | 0.01 |
| 15 | | Benzyl Alcohol | 1.208 | 1.221 | -1.1 | 94 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.209 | 2.177 | 1.4 | 94 | 0.01 |
| 17 | | 2-Methylphenol | 1.128 | 1.127 | 0.1 | 95 | 0.00 |
| 18 | | Hexachloroethane | 0.577 | 0.576 | 0.2 | 96 | 0.01 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.008 | 0.992 | 1.6 | 95 | 0.01 |
| 20 | | 3+4-Methylphenols | 1.459 | 1.448 | 0.8 | 95 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 96 | 0.01 |
| 22 | | Acetophenone | 0.461 | 0.454 | 1.5 | 96 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.337 | 0.336 | 0.3 | 94 | 0.01 |
| 24 | | Nitrobenzene | 0.348 | 0.345 | 0.9 | 94 | 0.00 |
| 25 | | Isophorone | 0.575 | 0.568 | 1.2 | 94 | 0.01 |
| 26 | C | 2-Nitrophenol | 0.166 | 0.174 | -4.8 | 96 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.275 | 0.275 | 0.0 | 95 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.390 | 0.385 | 1.3 | 96 | 0.01 |
| 29 | C | 2,4-Dichlorophenol | 0.277 | 0.281 | -1.4 | 96 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.311 | 0.312 | -0.3 | 96 | 0.01 |
| 31 | | Naphthalene | 0.922 | 0.905 | 1.8 | 95 | 0.01 |
| 32 | | Benzoic acid | 0.212 | 0.218 | -2.8 | 95 | 0.00 |
| 33 | | 4-Chloroaniline | 0.415 | 0.405 | 2.4 | 94 | 0.01 |
| 34 | C | Hexachlorobutadiene | 0.173 | 0.171 | 1.2 | 97 | 0.02 |
| 35 | | Caprolactam | 0.097 | 0.101 | -4.1 | 97 | 0.01 |
| 36 | C | 4-Chloro-3-methylphenol | 0.300 | 0.301 | -0.3 | 95 | 0.01 |
| 37 | | 2-Methylnaphthalene | 0.610 | 0.603 | 1.1 | 96 | 0.01 |
| 38 | | 1-Methylnaphthalene | 0.589 | 0.578 | 1.9 | 95 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 97 | 0.02 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.623 | 0.612 | 1.8 | 96 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.319 | 0.323 | -1.3 | 93 | 0.02 |
| 42 | S | 2,4,6-Tribromophenol | 0.198 | 0.201 | -1.5 | 98 | 0.01 |
| 43 | C | 2,4,6-Trichlorophenol | 0.402 | 0.395 | 1.7 | 94 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.425 | 0.420 | 1.2 | 95 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 1.274 | 1.276 | -0.2 | 97 | 0.01 |
| 46 | | 1,1'-Biphenyl | 1.809 | 1.760 | 2.7 | 96 | 0.02 |
| 47 | | 2-Chloronaphthalene | 1.327 | 1.296 | 2.3 | 95 | 0.01 |
| 48 | | 2-Nitroaniline | 0.402 | 0.412 | -2.5 | 97 | 0.00 |
| 49 | | Acenaphthylene | 1.916 | 1.892 | 1.3 | 96 | 0.01 |
| 50 | | Dimethylphthalate | 1.476 | 1.468 | 0.5 | 98 | 0.01 |
| 51 | | 2,6-Dinitrotoluene | 0.318 | 0.337 | -6.0 | 99 | 0.01 |
| 52 | C | Acenaphthene | 1.268 | 1.255 | 1.0 | 97 | 0.02 |
| 53 | | 3-Nitroaniline | 0.378 | 0.388 | -2.6 | 96 | 0.01 |
| 54 | P | 2,4-Dinitrophenol | 0.112 | 0.122 | -8.9 | 105 | 0.00 |
| 55 | | Dibenzofuran | 1.775 | 1.746 | 1.6 | 96 | 0.02 |
| 56 | P | 4-Nitrophenol | 0.280 | 0.303 | -8.2 | 98 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.404 | 0.440 | -8.9 | 100 | 0.00 |
| 58 | | Fluorene | 1.321 | 1.302 | 1.4 | 97 | 0.01 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.346 | 0.350 | -1.2 | 96 | 0.01 |
| 60 | | Diethylphthalate | 1.441 | 1.450 | -0.6 | 98 | 0.02 |
| 61 | | 4-Chlorophenyl-phenylether | 0.697 | 0.685 | 1.7 | 97 | 0.01 |
| 62 | | 4-Nitroaniline | 0.376 | 0.391 | -4.0 | 99 | 0.00 |
| 63 | | Azobenzene | 1.431 | 1.429 | 0.1 | 98 | 0.02 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 98 | 0.01 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.091 | 0.098 | -7.7 | 101 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.656 | 0.649 | 1.1 | 98 | 0.02 |
| 67 | | 4-Bromophenyl-phenylether | 0.217 | 0.216 | 0.5 | 98 | 0.02 |
| 68 | | Hexachlorobenzene | 0.230 | 0.227 | 1.3 | 98 | 0.01 |
| 69 | | Atrazine | 0.207 | 0.206 | 0.5 | 97 | 0.02 |
| 70 | C | Pentachlorophenol | 0.134 | 0.150 | -11.9 | 99 | 0.01 |
| 71 | | Phenanthrene | 1.046 | 1.020 | 2.5 | 98 | 0.02 |
| 72 | | Anthracene | 1.049 | 1.033 | 1.5 | 98 | 0.01 |
| 73 | | Carbazole | 1.024 | 1.012 | 1.2 | 99 | 0.02 |
| 74 | | Di-n-butylphthalate | 1.157 | 1.176 | -1.6 | 100 | 0.02 |
| 75 | C | Fluoranthene | 1.062 | 1.053 | 0.8 | 99 | 0.01 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 104 | 0.02 |
| 77 | | Benzidine | 0.681 | 0.569 | 16.4 | 97 | 0.01 |
| 78 | | Pyrene | 1.434 | 1.384 | 3.5 | 101 | 0.02 |
| 79 | S | Terphenyl-d14 | 0.962 | 0.900 | 6.4 | 100 | 0.02 |
| 80 | | Butylbenzylphthalate | 0.622 | 0.628 | -1.0 | 103 | 0.02 |
| 81 | | Benzo(a)anthracene | 1.186 | 1.188 | -0.2 | 103 | 0.02 |
| 82 | | 3,3'-Dichlorobenzidine | 0.413 | 0.410 | 0.7 | 101 | 0.02 |
| 83 | | Chrysene | 1.127 | 1.108 | 1.7 | 102 | 0.01 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.841 | 0.855 | -1.7 | 103 | 0.03 |
| 85 | c | Di-n-octyl phthalate | 1.308 | 1.393 | -6.5 | 109 | 0.03 |
| 86 | | Indeno(1,2,3-cd)pyrene | 0.935 | 0.923 | 1.3 | 113 | 0.01 |
| 87 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 110 | 0.02 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 1.155 | 1.212 | -4.9 | 113 | 0.02 |
| 89 | Benzo(k)fluoranthene | 1.135 | 1.110 | 2.2 | 107 | 0.02 |
| 90 C | Benzo(a)pyrene | 1.063 | 1.073 | -0.9 | 111 | 0.02 |
| 91 | Dibenzo(a,h)anthracene | 0.917 | 0.910 | 0.8 | 112 | 0.02 |
| 92 | Benzo(g,h,i)perylene | 0.904 | 0.877 | 3.0 | 110 | 0.02 |

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