# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF032419\
Data File : BF113261.D
Acq On : 24 Mar 2019 11:11
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Mar 25 04:26:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 13 03:42:55 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 98 | -0.02 |
| 2 | | 1,4-Dioxane | 40.000 | 35.202 | 12.0 | 87 | -0.06 |
| 3 | | Pyridine | 40.000 | 36.272 | 9.3 | 90 | -0.06 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 36.313 | 9.2 | 87 | -0.06 |
| 5 | S | 2-Fluorophenol | 80.000 | 75.109 | 6.1 | 94 | -0.02 |
| 6 | | Aniline | 40.000 | 34.754 | 13.1 | 85 | -0.02 |
| 7 | S | Phenol-d6 | 80.000 | 77.036 | 3.7 | 97 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 39.262 | 1.8 | 97 | -0.01 |
| 9 | | Benzaldehyde | 40.000 | 37.091 | 7.3 | 92 | -0.02 |
| 10 | C | Phenol | 40.000 | 37.249 | 6.9 | 91 | -0.01 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 38.854 | 2.9 | 96 | -0.01 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 40.693 | -1.7 | 102 | -0.02 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 41.898 | -4.7 | 104 | -0.02 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 41.992 | -5.0 | 106 | -0.02 |
| 15 | | Benzyl Alcohol | 40.000 | 37.317 | 6.7 | 91 | -0.01 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 36.683 | 8.3 | 91 | -0.02 |
| 17 | | 2-Methylphenol | 40.000 | 40.156 | -0.4 | 100 | -0.01 |
| 18 | | Hexachloroethane | 40.000 | 40.925 | -2.3 | 101 | -0.02 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 37.945 | 5.1 | 95 | -0.01 |
| 20 | | 3+4-Methylphenols | 40.000 | 41.721 | -4.3 | 106 | -0.01 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 99 | -0.02 |
| 22 | | Acetophenone | 40.000 | 43.331 | -8.3 | 107 | -0.01 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 89.720 | -12.1 | 110 | -0.01 |
| 24 | | Nitrobenzene | 40.000 | 41.747 | -4.4 | 102 | -0.01 |
| 25 | | Isophorone | 40.000 | 39.575 | 1.1 | 100 | -0.01 |
| 26 | C | 2-Nitrophenol | 40.000 | 54.302 | -35.8# | 127 | -0.02 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 38.946 | 2.6 | 99 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 38.791 | 3.0 | 98 | -0.01 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 45.203 | -13.0 | 112 | -0.01 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 44.479 | -11.2 | 113 | -0.02 |
| 31 | | Naphthalene | 40.000 | 40.830 | -2.1 | 104 | -0.02 |
| 32 | | Benzoic acid | 40.000 | 47.813 | -19.5 | 118 | 0.01 |
| 33 | | 4-Chloroaniline | 40.000 | 41.420 | -3.6 | 104 | -0.01 |
| 34 | C | Hexachlorobutadiene | 40.000 | 48.765 | -21.9# | 122 | -0.02 |
| 35 | | Caprolactam | 40.000 | 43.648 | -9.1 | 107 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 41.825 | -4.6 | 104 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 41.965 | -4.9 | 106 | -0.02 |
| 38 | | 1-Methylnaphthalene | 40.000 | 42.230 | -5.6 | 107 | -0.02 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 101 | -0.02 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 47.654 | -19.1 | 121 | -0.02 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 38.792 | 3.0 | 96 | -0.02 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 98.604 | -23.3 | 122 | -0.01 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 45.992 | -15.0 | 113 | -0.01 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 45.703 | -14.3 | 113 | -0.01 |

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| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 80.000 | 91.015 | -13.8 | 109 | -0.01 |
| 46 | | 1,1'-Biphenyl | 40.000 | 44.361 | -10.9 | 110 | -0.01 |
| 47 | | 2-Chloronaphthalene | 40.000 | 43.608 | -9.0 | 112 | -0.01 |
| 48 | | 2-Nitroaniline | 40.000 | 47.543 | -18.9 | 112 | -0.01 |
| 49 | | Acenaphthylene | 40.000 | 38.669 | 3.3 | 99 | -0.01 |
| 50 | | Dimethylphthalate | 40.000 | 43.884 | -9.7 | 112 | -0.02 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 45.828 | -14.6 | 108 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 37.851 | 5.4 | 96 | -0.02 |
| 53 | | 3-Nitroaniline | 40.000 | 43.390 | -8.5 | 103 | -0.01 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 58.864 | -47.2# | 161 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 38.684 | 3.3 | 100 | -0.02 |
| 56 | P | 4-Nitrophenol | 40.000 | 37.276 | 6.8 | 86 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 46.309 | -15.8 | 108 | 0.00 |
| 58 | | Fluorene | 40.000 | 41.666 | -4.2 | 108 | -0.02 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 43.624 | -9.1 | 107 | -0.01 |
| 60 | | Diethylphthalate | 40.000 | 38.618 | 3.5 | 99 | -0.02 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 45.362 | -13.4 | 117 | -0.01 |
| 62 | | 4-Nitroaniline | 40.000 | 47.801 | -19.5 | 117 | 0.00 |
| 63 | | Azobenzene | 40.000 | 35.790 | 10.5 | 91 | -0.01 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 108 | -0.02 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 52.693 | -31.7# | 148 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 37.741 | 5.6 | 102 | -0.01 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 44.492 | -11.2 | 121 | -0.01 |
| 68 | | Hexachlorobenzene | 40.000 | 45.612 | -14.0 | 124 | -0.01 |
| 69 | | Atrazine | 40.000 | 34.947 | 12.6 | 95 | -0.01 |
| 70 | C | Pentachlorophenol | 40.000 | 40.490 | -1.2 | 104 | -0.01 |
| 71 | | Phenanthrene | 40.000 | 40.495 | -1.2 | 108 | -0.01 |
| 72 | | Anthracene | 40.000 | 39.397 | 1.5 | 108 | -0.01 |
| 73 | | Carbazole | 40.000 | 39.036 | 2.4 | 108 | -0.01 |
| 74 | | Di-n-butylphthalate | 40.000 | 37.980 | 5.1 | 105 | -0.02 |
| 75 | C | Fluoranthene | 40.000 | 39.323 | 1.7 | 104 | -0.01 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 123 | 0.00 |
| 77 | | Benzidine | 40.000 | 22.698 | 43.3# | 68 | -0.01 |
| 78 | | Pyrene | 40.000 | 34.156 | 14.6 | 104 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 70.747 | 11.6 | 111 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 35.973 | 10.1 | 107 | -0.01 |
| 81 | | Benzo(a)anthracene | 40.000 | 33.875 | 15.3 | 103 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 37.085 | 7.3 | 109 | 0.00 |
| 83 | | Chrysene | 40.000 | 35.759 | 10.6 | 110 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 36.318 | 9.2 | 111 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 36.332 | 9.2 | 111 | 0.00 |
| 86 | | Indeno(1,2,3-cd)pyrene | 40.000 | 37.082 | 7.3 | 121 | 0.00 |
| 87 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 115 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 40.000 | 40.517 | -1.3 | 109 | 0.00 |
| 89 | Benzo(k)fluoranthene | 40.000 | 37.160 | 7.1 | 114 | 0.00 |
| 90 C | Benzo(a)pyrene | 40.000 | 39.024 | 2.4 | 112 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 40.000 | 40.321 | -0.8 | 121 | 0.00 |
| 92 | Benzo(g,h,i)perylene | 40.000 | 42.361 | -5.9 | 126 | 0.00 |

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