# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080415\
Data File : BG018269.D
Acq On : 5 Aug 2015 1:20
Operator : UM/TP
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_G
**LabSampleId :** SSTD02099

Quant Time: Aug 05 05:56:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 05 02:27:11 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 160 | 0.01 |
| 2 | | 1,4-Dioxane | 8.000 | 4.773 | 40.3# | 84 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 8.000 | 5.617 | 29.8# | 110 | 0.00 |
| 4 | | Benzaldehyde | 20.000 | 16.903 | 15.5 | 126 | 0.02 |
| 5 | S | Phenol-d5 | 20.000 | 16.927 | 15.4 | 138 | 0.02 |
| 6 | | Phenol | 20.000 | 16.375 | 18.1 | 136 | 0.02 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 20.000 | 15.503 | 22.5# | 123 | 0.02 |
| 8 | | Bis(2-Chloroethyl)ether | 20.000 | 16.063 | 19.7 | 127 | 0.01 |
| 9 | S | 2-Chlorophenol-d4 | 20.000 | 19.138 | 4.3 | 154 | 0.01 |
| 10 | | 2-Chlorophenol | 20.000 | 19.289 | 3.6 | 156 | 0.02 |
| 11 | | 2-Methylphenol | 20.000 | 17.021 | 14.9 | 140 | 0.02 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 20.000 | 14.470 | 27.6# | 114 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 20.000 | 17.648 | 11.8 | 141 | 0.02 |
| 14 | | Acetophenone | 20.000 | 17.506 | 12.5 | 140 | 0.02 |
| 15 | P | N-Nitroso-di-n-propylamine | 20.000 | 14.463 | 27.7# | 114 | 0.01 |
| 16 | | 4-Methylphenol | 20.000 | 16.910 | 15.4 | 134 | 0.02 |
| 17 | | Hexachloroethane | 20.000 | 18.860 | 5.7 | 154 | 0.01 |
| 18 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 145 | 0.02 |
| 19 | S | Nitrobenzene-d5 | 20.000 | 19.518 | 2.4 | 138 | 0.01 |
| 20 | | Nitrobenzene | 20.000 | 17.543 | 12.3 | 127 | 0.02 |
| 21 | | Isophorone | 20.000 | 16.058 | 19.7 | 116 | 0.01 |
| 22 | S | 2-Nitrophenol-d4 | 20.000 | 19.519 | 2.4 | 148 | 0.01 |
| 23 | C | 2-Nitrophenol | 20.000 | 19.859 | 0.7 | 147 | 0.01 |
| 24 | | 2,4-Dimethylphenol | 20.000 | 18.965 | 5.2 | 137 | 0.02 |
| 25 | | Bis(2-Chloroethoxy)methane | 20.000 | 16.384 | 18.1 | 122 | 0.01 |
| 26 | S | 2,4-Dichlorophenol-d3 | 20.000 | 20.993 | -5.0 | 154 | 0.02 |
| 27 | C | 2,4-Dichlorophenol | 20.000 | 20.000 | 0.0 | 149 | 0.02 |
| 28 | | Naphthalene | 20.000 | 19.158 | 4.2 | 139 | 0.02 |
| 29 | S | 4-Chloroaniline-d4 | 20.000 | 20.344 | -1.7 | 142 | 0.02 |
| 30 | | 4-Chloroaniline | 20.000 | 19.981 | 0.1 | 139 | 0.02 |
| 31 | C | Hexachlorobutadiene | 20.000 | 22.691 | -13.5 | 172 | 0.00 |
| 32 | | Caprolactam | 20.000 | 16.298 | 18.5 | 114 | 0.03 |
| 33 | C | 4-Chloro-3-methylphenol | 20.000 | 18.289 | 8.6 | 134 | 0.02 |
| 34 | | 2-Methylnaphthalene | 20.000 | 19.303 | 3.5 | 138 | 0.02 |
| 35 | | 1-Methylnaphthalene | 20.000 | 19.090 | 4.6 | 138 | 0.02 |
| 36 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 122 | 0.02 |
| 37 | | 1,2,4,5-Tetrachlorobenzene | 20.000 | 22.876 | -14.4 | 142 | 0.02 |
| 38 | | Hexachlorocyclopentadiene | 20.000 | 5.218 | 73.9# | 41 | 0.01 |
| 39 | C | 2,4,6-Trichlorophenol | 20.000 | 23.530 | -17.7 | 150 | 0.02 |
| 40 | | 2,4,5-Trichlorophenol | 20.000 | 22.811 | -14.1 | 139 | 0.02 |
| 41 | | 1,1'-Biphenyl | 20.000 | 20.501 | -2.5 | 128 | 0.01 |
| 42 | | 2-Chloronaphthalene | 20.000 | 21.637 | -8.2 | 134 | 0.01 |
| 43 | | 2-Nitroaniline | 20.000 | 18.294 | 8.5 | 114 | 0.02 |
| 44 | S | Dimethylphthalate-d6 | 20.000 | 18.636 | 6.8 | 114 | 0.02 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | Dimethylphthalate | 20.000 | 18.535 | 7.3 | 114 | 0.02 |
| 46 | | 2,6-Dinitrotoluene | 20.000 | 18.257 | 8.7 | 114 | 0.02 |
| 47 | S | Acenaphthylene-d8 | 20.000 | 19.929 | 0.4 | 122 | 0.02 |
| 48 | | Acenaphthylene | 20.000 | 20.487 | -2.4 | 125 | 0.02 |
| 49 | | 3-Nitroaniline | 20.000 | 20.309 | -1.5 | 125 | 0.02 |
| 50 | C | Acenaphthene | 20.000 | 20.278 | -1.4 | 123 | 0.02 |
| 51 | | 2,4-Dinitrophenol | 20.000 | 4.648 | 76.8# | 33 | 0.02 |
| 52 | S | 4-Nitrophenol-d4 | 20.000 | 14.424 | 27.9# | 89 | 0.02 |
| 53 | | 4-Nitrophenol | 20.000 | 16.759 | 16.2 | 107 | 0.03 |
| 54 | | Dibenzofuran | 20.000 | 19.293 | 3.5 | 118 | 0.02 |
| 55 | | 2,4-Dinitrotoluene | 20.000 | 17.854 | 10.7 | 110 | 0.02 |
| 56 | | 2,3,4,6-Tetrachlorophenol | 20.000 | 18.800 | 6.0 | 119 | 0.02 |
| 57 | | Diethylphthalate | 20.000 | 17.744 | 11.3 | 108 | 0.01 |
| 58 | S | Fluorene-d10 | 20.000 | 18.597 | 7.0 | 116 | 0.02 |
| 59 | | Fluorene | 20.000 | 18.705 | 6.5 | 114 | 0.01 |
| 60 | | 4-Chlorophenyl-phenylether | 20.000 | 18.535 | 7.3 | 117 | 0.01 |
| 61 | | 4-Nitroaniline | 20.000 | 17.771 | 11.1 | 105 | 0.02 |
| 62 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 87 | 0.02 |
| 63 | S | 4,6-Dinitro-2-methylphenol- | 20.000 | 10.946 | 45.3# | 49 | 0.02 |
| 64 | | 4,6-Dinitro-2-methylphenol | 20.000 | 10.864 | 45.7# | 49 | 0.02 |
| 65 | | N-Nitrosodiphenylamine | 20.000 | 25.751 | -28.8# | 111 | 0.01 |
| 66 | | 4-Bromophenyl-phenylether | 20.000 | 24.871 | -24.4# | 109 | 0.01 |
| 67 | | Hexachlorobenzene | 20.000 | 23.710 | -18.6 | 106 | 0.02 |
| 68 | | Atrazine | 20.000 | 21.337 | -6.7 | 91 | 0.02 |
| 69 | C | Pentachlorophenol | 20.000 | 15.743 | 21.3 | 76 | 0.02 |
| 70 | | Phenanthrene | 20.000 | 19.302 | 3.5 | 84 | 0.02 |
| 71 | S | Anthracene-d10 | 20.000 | 19.735 | 1.3 | 85 | 0.02 |
| 72 | | Anthracene | 20.000 | 19.563 | 2.2 | 83 | 0.02 |
| 73 | | 1,2,3,4-Tetrachlorobenzene | 20.000 | 32.381 | -61.9# | 144 | 0.02 |
| 74 | | Pentachlorobenzene | 20.000 | 29.486 | -47.4# | 127 | 0.02 |
| 75 | | Carbazole | 20.000 | 19.144 | 4.3 | 77 | 0.02 |
| 76 | | Di-n-butylphthalate | 20.000 | 15.938 | 20.3# | 68 | 0.01 |
| 77 | C | Fluoranthene | 20.000 | 10.806 | 46.0# | 43 | 0.02 |
| 78 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 60 | 0.02 |
| 79 | S | Pyrene-d10 | 20.000 | 14.772 | 26.1# | 44 | 0.02 |
| 80 | | Pyrene | 20.000 | 15.163 | 24.2# | 45 | 0.02 |
| 81 | | Butylbenzylphthalate | 20.000 | 0.292 | 98.5# | 1 | -0.05 |
| 82 | | 3,3'-Dichlorobenzidine | 20.000 | 17.584 | 12.1 | 53 | 0.01 |
| 83 | | Benzo(a)anthracene | 20.000 | 19.277 | 3.6 | 58 | 0.02 |
| 84 | | Bis(2-ethylhexyl)phthalate | 20.000 | 18.799 | 6.0 | 57 | 0.01 |
| 85 | | Chrysene | 20.000 | 19.618 | 1.9 | 59 | 0.02 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 68 | 0.03 |
| 87 | | Di-n-octyl phthalate | 20.000 | 19.766 | 1.2 | 65 | 0.01 |

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| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 88 | | Benzo(b)fluoranthene | 20.000 | 18.532 | 7.3 | 64 | 0.02 |
| 89 | | Benzo(k)fluoranthene | 20.000 | 19.078 | 4.6 | 67 | 0.03 |
| 90 | S | Benzo(a)pyrene-d12 | 20.000 | 19.415 | 2.9 | 68 | 0.03 |
| 91 | C | Benzo(a)pyrene | 20.000 | 18.895 | 5.5 | 66 | 0.03 |
| 92 | | Indeno(1,2,3-cd)pyrene | 20.000 | 15.845 | 20.8# | 56 | 0.05 |
| 93 | | Dibenzo(a,h)anthracene | 20.000 | 16.867 | 15.7 | 60 | 0.05 |
| 94 | | Benzo(g,h,i)perylene | 20.000 | 12.942 | 35.3# | 45 | 0.05 |

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