# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040519\
Data File : BM019785.D
Acq On : 06 Apr 2019 12:47
Operator : JU/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02001

Quant Time: Apr 08 03:48:48 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM032219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Apr 06 00:13:11 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 | 115 | 0.00 |
| 2 | | 1,4-Dioxane | 0.581 | 0.443 | 23.8 | 90 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 0.511 | 0.408 | 20.2 | 95 | 0.00 |
| 4 | | Benzaldehyde | 1.276 | 1.320 | -3.4 | 120 | 0.00 |
| 5 | S | Phenol-d5 | 1.781 | 1.798 | -1.0 | 126 | 0.00 |
| 6 | | Phenol | 1.859 | 1.857 | 0.1 | 123 | 0.00 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 1.192 | 1.123 | 5.8 | 115 | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 1.422 | 1.361 | 4.3 | 115 | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 1.350 | 1.394 | -3.3 | 123 | 0.00 |
| 10 | | 2-Chlorophenol | 1.372 | 1.424 | -3.8 | 122 | 0.00 |
| 11 | | 2-Methylphenol | 1.296 | 1.340 | -3.4 | 130 | 0.00 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 1.348 | 1.237 | 8.2 | 118 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 1.337 | 1.394 | -4.3 | 131 | 0.00 |
| 14 | | Acetophenone | 2.177 | 2.158 | 0.9 | 125 | 0.00 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.220 | 1.241 | -1.7 | 126 | 0.00 |
| 16 | | 4-Methylphenol | 1.422 | 1.481 | -4.1 | 131 | 0.00 |
| 17 | | Hexachloroethane | 0.577 | 0.534 | 7.5 | 116 | 0.00 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 0.143 | 0.146 | -2.1 | 134 | 0.00 |
| 20 | | Nitrobenzene | 0.425 | 0.385 | 9.4 | 123 | 0.00 |
| 21 | | Isophorone | 0.729 | 0.720 | 1.2 | 132 | 0.00 |
| 22 | S | 2-Nitrophenol-d4 | 0.159 | 0.168 | -5.7 | 134 | 0.00 |
| 23 | C | 2-Nitrophenol | 0.175 | 0.180 | -2.9 | 132 | 0.00 |
| 24 | | 2,4-Dimethylphenol | 0.381 | 0.372 | 2.4 | 129 | 0.00 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.440 | 0.415 | 5.7 | 123 | 0.00 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.300 | 0.316 | -5.3 | 134 | 0.00 |
| 27 | C | 2,4-Dichlorophenol | 0.296 | 0.312 | -5.4 | 132 | 0.00 |
| 28 | | Naphthalene | 1.036 | 1.000 | 3.5 | 125 | 0.00 |
| 29 | S | 4-Chloroaniline-d4 | 0.360 | 0.386 | -7.2 | 138 | 0.00 |
| 30 | | 4-Chloroaniline | 0.379 | 0.393 | -3.7 | 131 | 0.00 |
| 31 | C | Hexachlorobutadiene | 0.187 | 0.178 | 4.8 | 121 | 0.00 |
| 32 | | Caprolactam | 0.088 | 0.100 | -13.6 | 161# | 0.00 |
| 33 | C | 4-Chloro-3-methylphenol | 0.319 | 0.336 | -5.3 | 138 | 0.00 |
| 34 | | 2-Methylnaphthalene | 0.726 | 0.765 | -5.4 | 137 | 0.00 |
| 35 | | 1-Methylnaphthalene | 0.685 | 0.722 | -5.4 | 139 | 0.00 |
| 36 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 134 | 0.00 |
| 37 | | 1,2,4,5-Tetrachlorobenzene | 0.636 | 0.614 | 3.5 | 135 | 0.00 |
| 38 | | Hexachlorocyclopentadiene | 0.326 | 0.142 | 56.4# | 74 | 0.00 |
| 39 | C | 2,4,6-Trichlorophenol | 0.397 | 0.421 | -6.0 | 147 | 0.00 |
| 40 | | 2,4,5-Trichlorophenol | 0.426 | 0.452 | -6.1 | 150# | 0.00 |
| 41 | | 1,1'-Biphenyl | 1.703 | 1.634 | 4.1 | 137 | 0.00 |
| 42 | | 2-Chloronaphthalene | 1.305 | 1.284 | 1.6 | 141 | 0.00 |
| 43 | | 2-Nitroaniline | 0.358 | 0.388 | -8.4 | 155# | 0.00 |
| 44 | S | Dimethylphthalate-d6 | 1.614 | 1.548 | 4.1 | 137 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | Dimethylphthalate | 1.619 | 1.537 | 5.1 | 136 | 0.00 |
| 46 | | 2,6-Dinitrotoluene | 0.297 | 0.322 | -8.4 | 152# | 0.00 |
| 47 | S | Acenaphthylene-d8 | 2.018 | 2.010 | 0.4 | 140 | 0.00 |
| 48 | | Acenaphthylene | 2.000 | 1.955 | 2.2 | 138 | 0.00 |
| 49 | | 3-Nitroaniline | 0.291 | 0.318 | -9.3 | 159# | 0.00 |
| 50 | C | Acenaphthene | 1.409 | 1.321 | 6.2 | 135 | 0.00 |
| 51 | | 2,4-Dinitrophenol | 0.172 | 0.136 | 20.9 | 147 | 0.00 |
| 52 | S | 4-Nitrophenol-d4 | 0.253 | 0.231 | 8.7 | 149 | 0.00 |
| 53 | | 4-Nitrophenol | 0.198 | 0.170 | 14.1 | 140 | 0.00 |
| 54 | | Dibenzofuran | 1.967 | 1.902 | 3.3 | 139 | 0.00 |
| 55 | | 2,4-Dinitrotoluene | 0.440 | 0.473 | -7.5 | 152# | 0.00 |
| 56 | | 2,3,4,6-Tetrachlorophenol | 0.359 | 0.383 | -6.7 | 148 | 0.00 |
| 57 | | Diethylphthalate | 1.593 | 1.635 | -2.6 | 148 | 0.00 |
| 58 | S | Fluorene-d10 | 1.390 | 1.414 | -1.7 | 146 | 0.00 |
| 59 | | Fluorene | 1.559 | 1.599 | -2.6 | 147 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 0.778 | 0.778 | 0.0 | 143 | 0.00 |
| 61 | | 4-Nitroaniline | 0.318 | 0.347 | -9.1 | 165# | 0.00 |
| 62 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 139 | 0.00 |
| 63 | S | 4,6-Dinitro-2-methylphenol- | 0.132 | 0.113 | 14.4 | 142 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.140 | 0.118 | 15.7 | 136 | 0.00 |
| 65 | | N-Nitrosodiphenylamine | 0.622 | 0.611 | 1.8 | 145 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 0.217 | 0.213 | 1.8 | 146 | 0.00 |
| 67 | | Hexachlorobenzene | 0.263 | 0.254 | 3.4 | 146 | 0.00 |
| 68 | | Atrazine | 0.218 | 0.209 | 4.1 | 149 | 0.00 |
| 69 | C | Pentachlorophenol | 0.137 | 0.129 | 5.8 | 159# | 0.00 |
| 70 | | Phenanthrene | 1.134 | 1.082 | 4.6 | 144 | 0.00 |
| 71 | S | Anthracene-d10 | 0.960 | 0.945 | 1.6 | 148 | 0.00 |
| 72 | | Anthracene | 1.157 | 1.154 | 0.3 | 149 | 0.00 |
| 73 | | 1,2,3,4-Tetrachlorobenzene | 0.290 | 0.271 | 6.6 | 137 | 0.00 |
| 74 | | Pentachlorobenzene | 0.303 | 0.286 | 5.6 | 141 | 0.00 |
| 75 | | Carbazole | 1.038 | 1.011 | 2.6 | 153# | 0.00 |
| 76 | | Di-n-butylphthalate | 1.150 | 1.207 | -5.0 | 158# | 0.00 |
| 77 | C | Fluoranthene | 1.299 | 1.248 | 3.9 | 151# | 0.00 |
| 78 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 131 | 0.00 |
| 79 | S | Pyrene-d10 | 0.924 | 1.010 | -9.3 | 153# | 0.00 |
| 80 | | Pyrene | 1.203 | 1.292 | -7.4 | 150 | 0.00 |
| 81 | | Butylbenzylphthalate | 0.476 | 0.576 | -21.0 | 170# | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.434 | 0.436 | -0.5 | 141 | 0.00 |
| 83 | | Benzo(a)anthracene | 1.204 | 1.187 | 1.4 | 139 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.691 | 0.884 | -27.9# | 180# | 0.00 |
| 85 | | Chrysene | 1.155 | 1.084 | 6.1 | 134 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 111 | -0.01 |
| 87 | | Di-n-octyl phthalate | 1.247 | 1.646 | -32.0# | 165# | 0.00 |

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|---|---|---|---|---|---|---|---|
| 88 | | Benzo(b)fluoranthene | 1.218 | 1.193 | 2.1 | 114 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.170 | 1.119 | 4.4 | 113 | 0.00 |
| 90 | S | Benzo(a)pyrene-d12 | 1.060 | 1.013 | 4.4 | 114 | 0.00 |
| 91 | C | Benzo(a)pyrene | 1.165 | 1.093 | 6.2 | 111 | 0.00 |
| 92 | | Indeno(1,2,3-cd)pyrene | 1.458 | 1.276 | 12.5 | 102 | -0.01 |
| 93 | | Dibenzo(a,h)anthracene | 1.243 | 1.090 | 12.3 | 103 | -0.01 |
| 94 | | Benzo(g,h,i)perylene | 1.219 | 1.081 | 11.3 | 103 | -0.01 |

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