# Response Factor Report BNA_N

Method Path : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\
Method File : SOM-EPA-BN061918.M
Title : SVOA CALIBRATION
Last Update : Tue Jun 19 14:50:02 2018
Response Via : Initial Calibration

Calibration Files
5 =BN001870.D 10 =BN001871.D 20 =BN001872.D
40 =BN001873.D 80 =BN001874.D 160 =BN001875.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzene-d | ---------- | ISTD | ---------- | | | | | |
| 2) | | 1,4-Dioxane | 0.500 | 0.486 | 0.466 | 0.469 | 0.452 | | 0.474 | 3.94 |
| 3) | S | 1,4-Dioxane-d8 | 0.473 | 0.466 | 0.463 | 0.454 | 0.446 | | 0.460 | 2.29 |
| 4) | | Benzaldehyde | | 1.214 | 1.166 | 1.222 | 1.071 | 0.851 | 1.105 | 13.97 |
| 5) | S | Phenol-d5 | | 1.840 | 1.809 | 1.867 | 1.778 | 1.755 | 1.810 | 2.49 |
| 6) | | Phenol | | 1.876 | 1.839 | 1.900 | 1.781 | 1.730 | 1.825 | 3.81 |
| 7) | S | Bis-(2-Chloroethy | | 1.195 | 1.117 | 1.141 | 1.082 | 1.049 | 1.117 | 5.00 |
| 8) | | Bis(2-Chloroethyl | | 1.500 | 1.428 | 1.450 | 1.373 | 1.323 | 1.415 | 4.86 |
| 9) | S | 2-Chlorophenol-d4 | 1.383 | 1.437 | 1.443 | 1.486 | 1.425 | | 1.435 | 2.58 |
| 10) | | 2-Chlorophenol | 1.438 | 1.485 | 1.438 | 1.488 | 1.414 | | 1.453 | 2.25 |
| 11) | | 2-Methylphenol | | 1.435 | 1.399 | 1.446 | 1.363 | 1.336 | 1.396 | 3.34 |
| 12) | | 2,2'-oxybis(1-Chl | | 2.394 | 2.267 | 2.274 | 2.134 | 2.029 | 2.220 | 6.34 |
| 13) | S | 4-Methylphenol-d8 | | 1.515 | 1.451 | 1.495 | 1.402 | 1.387 | 1.450 | 3.85 |
| 14) | | Acetophenone | | 2.445 | 2.287 | 2.294 | 2.096 | 2.011 | 2.227 | 7.76 |
| 15) | P | N-Nitroso-di-n-pr | 1.089 | 1.217 | 1.172 | 1.180 | 1.084 | | 1.148 | 5.14 |
| 16) | | 4-Methylphenol | | 1.594 | 1.550 | 1.575 | 1.459 | 1.429 | 1.521 | 4.82 |
| 17) | | Hexachloroethane | 0.571 | 0.584 | 0.569 | 0.577 | 0.563 | | 0.573 | 1.42 |
| 18) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | |
| 19) | S | Nitrobenzene-d5 | 0.132 | 0.143 | 0.150 | 0.159 | 0.158 | | 0.149 | 7.64 |
| 20) | | Nitrobenzene | 0.357 | 0.362 | 0.364 | 0.378 | 0.362 | | 0.365 | 2.11 |
| 21) | | Isophorone | 0.682 | 0.721 | 0.731 | 0.744 | 0.701 | | 0.716 | 3.45 |
| 22) | S | 2-Nitrophenol-d4 | 0.128 | 0.141 | 0.155 | 0.171 | 0.173 | | 0.154 | 12.43 |
| 23) | C | 2-Nitrophenol | 0.143 | 0.158 | 0.173 | 0.184 | 0.180 | | 0.167 | 10.09 |
| 24) | | 2,4-Dimethylpheno | 0.373 | 0.381 | 0.380 | 0.386 | 0.364 | | 0.377 | 2.27 |
| 25) | | Bis(2-Chloroethox | 0.460 | 0.461 | 0.452 | 0.454 | 0.428 | | 0.451 | 2.99 |
| 26) | S | 2,4-Dichloropheno | 0.313 | 0.331 | 0.333 | 0.339 | 0.324 | | 0.328 | 3.05 |
| 27) | C | 2,4-Dichloropheno | 0.311 | 0.319 | 0.323 | 0.330 | 0.311 | | 0.319 | 2.63 |
| 28) | | Naphthalene | 1.120 | 1.094 | 1.065 | 1.055 | 0.972 | | 1.061 | 5.27 |
| 29) | S | 4-Chloroaniline-d | | 0.301 | 0.337 | 0.368 | 0.373 | 0.320 | 0.340 | 9.14 |
| 30) | | 4-Chloroaniline | | 0.305 | 0.336 | 0.361 | 0.365 | 0.311 | 0.336 | 8.23 |
| 31) | C | Hexachlorobutadie | 0.200 | 0.194 | 0.194 | 0.197 | 0.189 | | 0.195 | 1.99 |
| 32) | | Caprolactam | | 0.105 | 0.110 | 0.119 | 0.110 | 0.110 | 0.111 | 4.69 |
| 33) | C | 4-Chloro-3-methyl | 0.329 | 0.363 | 0.359 | 0.368 | 0.338 | | 0.351 | 4.79 |
| 34) | | 2-Methylnaphthale | 0.800 | 0.805 | 0.773 | 0.769 | 0.701 | | 0.770 | 5.37 |
| 35) | I | Acenaphthene-d10 | ---------- | ISTD | ---------- | | | | | |
| 36) | | 1,2,4,5-Tetrachlo | 0.668 | 0.653 | 0.647 | 0.653 | 0.627 | | 0.650 | 2.24 |
| 37) | | Hexachlorocyclope | | 0.340 | 0.387 | 0.413 | 0.429 | 0.411 | 0.396 | 8.77 |
| 38) | C | 2,4,6-Trichloroph | 0.389 | 0.418 | 0.429 | 0.449 | 0.434 | | 0.424 | 5.32 |
| 39) | | 2,4,5-Trichloroph | 0.416 | 0.441 | 0.461 | 0.479 | 0.458 | | 0.451 | 5.30 |
| 40) | | 1,1'-Biphenyl | 1.743 | 1.699 | 1.668 | 1.663 | 1.533 | | 1.661 | 4.73 |
| 41) | | 2-Chloronaphthale | 1.351 | 1.320 | 1.293 | 1.302 | 1.218 | | 1.297 | 3.81 |
| 42) | | 2-Nitroaniline | 0.289 | 0.341 | 0.377 | 0.407 | 0.395 | | 0.362 | 13.10 |
| 43) | S | Dimethylphthalate | 1.723 | 1.739 | 1.697 | 1.715 | 1.571 | | 1.689 | 4.00 |
| 44) | | Dimethylphthalate | 1.723 | 1.726 | 1.668 | 1.672 | 1.510 | | 1.660 | 5.29 |
| 45) | | 2,6-Dinitrotoluen | 0.247 | 0.297 | 0.327 | 0.354 | 0.342 | | 0.313 | 13.63 |
| 46) | S | Acenaphthylene-d8 | 2.095 | 2.142 | 2.109 | 2.138 | 1.941 | | 2.085 | 3.98 |
| 47) | | Acenaphthylene | 2.051 | 2.100 | 2.047 | 2.038 | 1.827 | | 2.013 | 5.28 |
| 48) | | 3-Nitroaniline | | 0.283 | 0.300 | 0.334 | 0.313 | 0.274 | 0.301 | 8.00 |
| 49) | C | Acenaphthene | 1.473 | 1.448 | 1.398 | 1.392 | 1.270 | | 1.396 | 5.60 |
| 50) | | 2,4-Dinitrophenol | | 0.102 | 0.133 | 0.172 | 0.189 | 0.207 | 0.161 | 26.59 |
| 51) | S | 4-Nitrophenol-d4 | | 0.292 | 0.305 | 0.341 | 0.313 | 0.304 | 0.311 | 5.88 |

Method Path : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\
Method File : SOM-EPA-BN061918.M
Title : SVOA CALIBRATION
Last Update : Tue Jun 19 14:50:02 2018
Response Via : Initial Calibration

Calibration Files
5 =BN001870.D 10 =BN001871.D 20 =BN001872.D
40 =BN001873.D 80 =BN001874.D 160 =BN001875.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 52) | | 4-Nitrophenol | | 0.224 | 0.230 | 0.251 | 0.229 | 0.223 | 0.231 | 4.90 |
| 53) | | Dibenzofuran | 2.149 | 2.102 | 2.003 | 1.986 | 1.774 | | 2.003 | 7.22 |
| 54) | | 2,4-Dinitrotoluen | 0.388 | 0.458 | 0.484 | 0.519 | 0.481 | | 0.466 | 10.51 |
| 55) | | 2,3,4,6-Tetrachlo | 0.361 | 0.393 | 0.404 | 0.428 | 0.404 | | 0.398 | 6.07 |
| 56) | | Diethylphthalate | 1.692 | 1.737 | 1.696 | 1.727 | 1.559 | | 1.682 | 4.26 |
| 57) | S | Fluorene-d10 | 1.585 | 1.545 | 1.468 | 1.474 | 1.330 | | 1.480 | 6.58 |
| 58) | | Fluorene | 1.721 | 1.719 | 1.608 | 1.569 | 1.373 | | 1.598 | 8.92 |
| 59) | | 4-Chlorophenyl-ph | 0.867 | 0.854 | 0.797 | 0.791 | 0.694 | | 0.801 | 8.55 |
| 60) | | 4-Nitroaniline | | 0.381 | 0.376 | 0.417 | 0.359 | 0.325 | 0.372 | 9.08 |
| 61) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | |
| 62) | S | 4,6-Dinitro-2-met | | 0.082 | 0.101 | 0.117 | 0.122 | 0.122 | 0.109 | 15.78 |
| 63) | | 4,6-Dinitro-2-met | | 0.091 | 0.110 | 0.126 | 0.127 | 0.125 | 0.116 | 13.13 |
| 64) | | N-Nitrosodiphenyl | 0.606 | 0.622 | 0.606 | 0.600 | 0.557 | | 0.598 | 4.07 |
| 65) | | 4-Bromophenyl-phe | 0.217 | 0.218 | 0.220 | 0.220 | 0.211 | | 0.217 | 1.74 |
| 66) | | Hexachlorobenzene | 0.251 | 0.249 | 0.247 | 0.246 | 0.231 | | 0.245 | 3.21 |
| 67) | | Atrazine | | 0.219 | 0.222 | 0.230 | 0.218 | 0.201 | 0.218 | 4.83 |
| 68) | C | Pentachlorophenol | | 0.116 | 0.130 | 0.144 | 0.144 | 0.142 | 0.135 | 9.03 |
| 69) | | Phenanthrene | 1.212 | 1.184 | 1.132 | 1.115 | 0.991 | | 1.127 | 7.59 |
| 70) | S | Anthracene-d10 | 1.007 | 1.011 | 0.977 | 0.967 | 0.870 | | 0.966 | 5.90 |
| 71) | | Anthracene | 1.218 | 1.202 | 1.160 | 1.132 | 0.989 | | 1.140 | 8.00 |
| 72) | | Carbazole | | 1.089 | 1.036 | 1.039 | 0.908 | 0.704 | 0.955 | 16.26 |
| 73) | | Di-n-butylphthala | 1.176 | 1.246 | 1.262 | 1.270 | 1.077 | | 1.206 | 6.74 |
| 74) | C | Fluoranthene | | 1.419 | 1.328 | 1.341 | 1.102 | 0.731 | 1.184 | 23.59# |
| 75) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | |
| 76) | S | Pyrene-d10 | 0.940 | 0.976 | 1.044 | 1.015 | 1.066 | | 1.008 | 5.06 |
| 77) | | Pyrene | 1.218 | 1.258 | 1.311 | 1.232 | 1.239 | | 1.252 | 2.89 |
| 78) | | Butylbenzylphthal | 0.439 | 0.491 | 0.555 | 0.576 | 0.609 | | 0.534 | 12.76 |
| 79) | | 3,3'-Dichlorobenz | | 0.357 | 0.377 | 0.431 | 0.399 | 0.333 | 0.380 | 9.95 |
| 80) | | Benzo(a)anthracen | 1.324 | 1.320 | 1.282 | 1.247 | 1.148 | | 1.264 | 5.72 |
| 81) | | Bis(2-ethylhexyl) | 0.730 | 0.773 | 0.833 | 0.839 | 0.808 | | 0.796 | 5.70 |
| 82) | | Chrysene | 1.247 | 1.222 | 1.187 | 1.171 | 1.054 | | 1.176 | 6.32 |
| 83) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 84) | | Di-n-octyl phthal | | 1.308 | 1.528 | 1.414 | 1.441 | 0.942 | 1.326 | 17.26 |
| 85) | | Benzo(b)fluoranth | 1.267 | 1.260 | 1.299 | 1.239 | 1.250 | | 1.263 | 1.81 |
| 86) | | Benzo(k)fluoranth | 1.241 | 1.262 | 1.277 | 1.211 | 1.134 | | 1.225 | 4.61 |
| 87) | S | Benzo(a)pyrene-d1 | 1.093 | 1.089 | 1.111 | 1.098 | 1.047 | | 1.088 | 2.22 |
| 88) | C | Benzo(a)pyrene | 1.209 | 1.203 | 1.193 | 1.175 | 1.122 | | 1.180 | 2.98 |
| 89) | | Indeno(1,2,3-cd)p | 1.338 | 1.260 | 1.199 | 1.266 | 1.217 | | 1.256 | 4.27 |
| 90) | | Dibenzo(a,h)anthr | 1.120 | 1.056 | 1.001 | 1.051 | 1.000 | | 1.045 | 4.71 |
| 91) | | Benzo(g,h,i)peryl | 1.110 | 1.040 | 0.977 | 1.034 | 1.021 | | 1.036 | 4.65 |

(#) = Out of Range