Response Factor Report Instrument #2

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF091521.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 15 15:08:32 2021
Response Via : Initial Calibration

Calibration Files
5 =BF125497.D 10 =BF125498.D 20 =BF125499.D 40 =BF125500.D 50 =BF125501.D 60 =BF125502.D 80 =BF125503.D

| | | Compound | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | |
| 2) | | 1,4-Dioxane | 0.680 | 0.750 | 0.639 | 0.590 | 0.574 | 0.576 | 0.542 | 0.622 | 11.71 |
| 3) | | Pyridine | 1.607 | 1.910 | 1.677 | 1.526 | 1.529 | 1.558 | 1.475 | 1.612 | 9.11 |
| 4) | | n-Nitrosodimet... | 0.825 | 0.938 | 0.826 | 0.752 | 0.761 | 0.780 | 0.733 | 0.802 | 8.68 |
| 5) | S | 2-Fluorophenol | 1.520 | 1.618 | 1.342 | 1.136 | 1.101 | 1.095 | 0.998 | 1.259 | 18.89 |
| 6) | | Aniline | 2.218 | 2.415 | 2.054 | 1.765 | 1.730 | 1.708 | 1.558 | 1.921 | 16.29 |
| 7) | S | Phenol-d6 | 2.035 | 2.133 | 1.789 | 1.511 | 1.460 | 1.454 | 1.328 | 1.673 | 18.82 |
| 8) | | 2-Chlorophenol | 1.587 | 1.681 | 1.418 | 1.196 | 1.166 | 1.148 | 1.043 | 1.320 | 18.47 |
| 9) | | Benzaldehyde | | 1.414 | 1.142 | 0.905 | 0.823 | 0.791 | | 1.015 | 25.82 |
| 10) | C | Phenol | 2.247 | 2.369 | 1.988 | 1.645 | 1.577 | 1.548 | | 1.896 | 18.90 |
| 11) | | bis(2-Chloroet... | 1.567 | 1.695 | 1.446 | 1.268 | 1.218 | 1.228 | 1.140 | 1.366 | 15.14 |
| 12) | | 1,3-Dichlorobe... | 1.802 | 1.917 | 1.607 | 1.393 | 1.350 | 1.355 | 1.241 | 1.524 | 16.84 |
| 13) | C | 1,4-Dichlorobe... | 1.853 | 1.906 | 1.640 | 1.415 | 1.361 | 1.339 | 1.238 | 1.536 | 17.24 |
| 14) | | 1,2-Dichlorobe... | 1.742 | 1.844 | 1.521 | 1.274 | 1.233 | 1.219 | | 1.472 | 18.57 |
| 15) | | Benzyl Alcohol | 1.318 | 1.515 | 1.308 | 1.116 | 1.096 | 1.075 | 0.960 | 1.198 | 15.81 |
| 16) | | 2,2'-oxybis(1-... | 2.955 | 3.173 | 2.681 | 2.330 | 2.254 | 2.216 | 1.955 | 2.509 | 17.52 |
| 17) | | 2-Methylphenol | 1.318 | 1.410 | 1.179 | 1.017 | 0.992 | 0.992 | 0.902 | 1.116 | 17.07 |
| 18) | | Hexachloroethane | 0.618 | 0.667 | 0.564 | 0.501 | 0.494 | 0.491 | 0.450 | 0.541 | 14.56 |
| 19) | P | n-Nitroso-di-n... | 1.181 | 1.281 | 1.048 | 0.903 | 0.884 | 0.892 | 0.849 | 1.005 | 16.78 |
| 20) | | 3+4-Methylphenols | 1.735 | 1.763 | 1.427 | 1.191 | 1.128 | 1.112 | 1.014 | 1.338 | 22.99 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | |
| 22) | | Acetophenone | 0.593 | 0.606 | 0.520 | 0.444 | 0.435 | 0.433 | 0.419 | 0.493 | 16.21 |
| 23) | S | Nitrobenzene-d5 | 0.443 | 0.471 | 0.432 | 0.380 | 0.373 | 0.376 | 0.361 | 0.405 | 10.55 |
| 24) | | Nitrobenzene | 0.473 | 0.513 | 0.452 | 0.399 | 0.397 | 0.393 | 0.370 | 0.428 | 12.12 |
| 25) | | Isophorone | 0.831 | 0.905 | 0.784 | 0.714 | 0.723 | 0.734 | 0.718 | 0.773 | 9.39 |
| 26) | C | 2-Nitrophenol | 0.192 | 0.220 | 0.201 | 0.186 | 0.187 | 0.186 | 0.180 | 0.193 | 7.08 |
| 27) | | 2,4-Dimethylph... | 0.313 | 0.330 | 0.291 | 0.257 | 0.256 | 0.256 | 0.249 | 0.279 | 11.75 |
| 28) | | bis(2-Chloroet... | 0.468 | 0.491 | 0.439 | 0.390 | 0.388 | 0.389 | 0.365 | 0.418 | 11.40 |
| 29) | C | 2,4-Dichloroph... | 0.345 | 0.385 | 0.335 | 0.297 | 0.294 | 0.298 | 0.278 | 0.319 | 11.75 |
| 30) | | 1,2,4-Trichlor... | 0.384 | 0.403 | 0.363 | 0.315 | 0.312 | 0.311 | 0.294 | 0.340 | 12.44 |
| 31) | | Naphthalene | 1.158 | 1.225 | 1.056 | 0.915 | 0.896 | 0.891 | 0.831 | 0.996 | 15.17 |
| 32) | | Benzoic acid | | 0.150 | 0.177 | 0.180 | 0.202 | 0.203 | 0.224 | 0.189 | 13.71 |
| 33) | | 4-Chloroaniline | 0.463 | 0.496 | 0.436 | 0.382 | 0.379 | 0.371 | 0.342 | 0.410 | 13.70 |
| 34) | C | Hexachlorobuta... | 0.249 | 0.262 | 0.234 | 0.203 | 0.205 | 0.204 | 0.195 | 0.222 | 11.98 |
| 35) | | Caprolactam | 0.098 | 0.109 | 0.101 | 0.089 | 0.089 | 0.093 | 0.097 | 0.097 | 7.41 |
| 36) | C | 4-Chloro-3-met... | 0.366 | 0.404 | 0.356 | 0.316 | 0.316 | 0.313 | 0.298 | 0.339 | 11.19 |
| 37) | | 2-Methylnaphth... | 0.812 | 0.860 | 0.731 | 0.628 | 0.620 | 0.616 | 0.575 | 0.692 | 15.93 |
| 38) | | 1-Methylnaphth... | 0.755 | 0.792 | 0.685 | 0.589 | 0.575 | 0.579 | 0.536 | 0.644 | 15.46 |

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF091521.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.722 | 0.789 | 0.663 | 0.587 | 0.578 | 0.588 | 0.548 | 0.639 | 13.88 |
| 41) | P | Hexachlorocycl... | | 0.142 | 0.178 | 0.204 | 0.219 | 0.232 | 0.251 | 0.204 | 19.16 |
| 42) | S | 2,4,6-Tribromo... | 0.249 | 0.286 | 0.252 | 0.228 | 0.232 | 0.234 | 0.224 | 0.244 | 8.71 |
| 43) | C | 2,4,6-Trichlor... | 0.461 | 0.512 | 0.455 | 0.414 | 0.411 | 0.415 | 0.404 | 0.439 | 9.02 |
| 44) | | 2,4,5-Trichlor... | 0.510 | 0.573 | 0.485 | 0.443 | 0.445 | 0.433 | 0.420 | 0.473 | 11.44 |
| 45) | S | 2-Fluorobiphenyl | 1.699 | 1.741 | 1.416 | 1.217 | 1.184 | 1.185 | 1.099 | 1.363 | 19.26 |
| 46) | | 1,1'-Biphenyl | 1.777 | 1.884 | 1.556 | 1.358 | 1.344 | 1.336 | 1.242 | 1.500 | 16.46 |
| 47) | | 2-Chloronaphth... | 1.432 | 1.536 | 1.296 | 1.142 | 1.106 | 1.116 | 1.038 | 1.238 | 15.16 |
| 48) | | 2-Nitroaniline | 0.448 | 0.502 | 0.447 | 0.416 | 0.411 | 0.417 | 0.395 | 0.434 | 8.25 |
| 49) | | Acenaphthylene | 2.177 | 2.310 | 1.937 | 1.675 | 1.625 | 1.618 | 1.479 | 1.832 | 17.21 |
| 50) | | Dimethylphthalate | 1.612 | 1.734 | 1.466 | 1.305 | 1.312 | 1.307 | 1.246 | 1.426 | 12.96 |
| 51) | | 2,6-Dinitrotol... | 0.341 | 0.390 | 0.329 | 0.303 | 0.296 | 0.302 | 0.282 | 0.320 | 11.40 |
| 52) | C | Acenaphthene | 1.301 | 1.398 | 1.166 | 1.013 | 0.979 | 0.992 | 0.920 | 1.110 | 16.41 |
| 53) | | 3-Nitroaniline | 0.383 | 0.423 | 0.362 | 0.331 | 0.327 | 0.327 | 0.308 | 0.352 | 11.51 |
| 54) | P | 2,4-Dinitrophenol | | 0.149 | 0.165 | 0.162 | 0.172 | 0.184 | 0.179 | 0.169 | 7.49 |
| 55) | | Dibenzofuran | 2.035 | 2.137 | 1.743 | 1.495 | 1.455 | 1.430 | 1.313 | 1.658 | 19.34 |
| 56) | P | 4-Nitrophenol | 0.200 | 0.261 | 0.245 | 0.237 | 0.245 | 0.252 | 0.236 | 0.240 | 8.19 |
| 57) | | 2,4-Dinitrotol... | 0.438 | 0.513 | 0.437 | 0.394 | 0.377 | 0.383 | 0.345 | 0.412 | 13.40 |
| 58) | | Fluorene | 1.593 | 1.694 | 1.362 | 1.187 | 1.168 | 1.152 | 1.060 | 1.317 | 18.40 |
| 59) | | 2,3,4,6-Tetrac... | 0.405 | 0.444 | 0.385 | 0.359 | 0.356 | 0.361 | 0.334 | 0.378 | 9.78 |
| 60) | | Diethylphthalate | 1.597 | 1.701 | 1.426 | 1.250 | 1.246 | 1.248 | 1.143 | 1.373 | 15.18 |
| 61) | | 4-Chlorophenyl... | 0.783 | 0.846 | 0.691 | 0.594 | 0.585 | 0.596 | 0.542 | 0.662 | 17.27 |
| 62) | | 4-Nitroaniline | 0.385 | 0.432 | 0.374 | 0.332 | 0.333 | 0.336 | 0.304 | 0.357 | 12.10 |
| 63) | | Azobenzene | 1.694 | 1.838 | 1.512 | 1.351 | 1.325 | 1.321 | 1.203 | 1.463 | 15.66 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.093 | 0.135 | 0.136 | 0.134 | 0.140 | 0.143 | 0.137 | 0.131 | 13.12 |
| 66) | c | n-Nitrosodiphe... | 0.777 | 0.835 | 0.696 | 0.619 | 0.620 | 0.609 | 0.579 | 0.676 | 14.33 |
| 67) | | 4-Bromophenyl-... | 0.267 | 0.288 | 0.250 | 0.223 | 0.228 | 0.224 | 0.218 | 0.243 | 10.92 |
| 68) | | Hexachlorobenzene | 0.285 | 0.313 | 0.262 | 0.242 | 0.242 | 0.243 | 0.233 | 0.260 | 11.20 |
| 69) | | Atrazine | 0.232 | 0.258 | 0.215 | 0.194 | 0.179 | 0.177 | 0.161 | 0.202 | 17.02 |
| 70) | C | Pentachlorophenol | 0.075 | 0.108 | 0.122 | 0.128 | 0.132 | 0.131 | 0.129 | 0.118 | 17.69 |
| 71) | | Phenanthrene | 1.258 | 1.342 | 1.120 | 0.974 | 0.965 | 0.947 | 0.885 | 1.070 | 16.24 |
| 72) | | Anthracene | 1.283 | 1.354 | 1.123 | 0.965 | 0.966 | 0.938 | 0.886 | 1.074 | 17.09 |
| 73) | | Carbazole | 1.163 | 1.277 | 1.049 | 0.909 | 0.900 | 0.891 | 0.817 | 1.001 | 16.79 |
| 74) | | Di-n-butylphth... | 1.326 | 1.436 | 1.222 | 1.030 | 1.038 | 1.009 | 0.944 | 1.144 | 16.25 |
| 75) | C | Fluoranthene | 1.397 | 1.492 | 1.220 | 1.058 | 1.031 | 1.019 | 0.955 | 1.167 | 17.79 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.969 | 0.810 | 0.573 | 0.595 | 0.492 | 0.458 | 0.400 | 0.614 | 33.37 |
| 78) | | Pyrene | 1.767 | 1.936 | 1.683 | 1.524 | 1.525 | 1.567 | 1.563 | 1.652 | 9.33 |
| 79) | S | Terphenyl-d14 | 1.381 | 1.466 | 1.230 | 1.119 | 1.124 | 1.161 | 1.152 | 1.233 | 11.11 |
| 80) | | Butylbenzylpht... | 0.672 | 0.764 | 0.665 | 0.621 | 0.622 | 0.645 | 0.630 | 0.660 | 7.62 |
| 81) | | Benzo(a)anthra... | 1.605 | 1.708 | 1.483 | 1.343 | 1.314 | 1.346 | 1.299 | 1.442 | 11.14 |
| 82) | | 3,3'-Dichlorob... | 0.503 | 0.551 | 0.474 | 0.416 | 0.395 | 0.387 | 0.346 | 0.439 | 16.55 |
| 83) | | Chrysene | 1.581 | 1.707 | 1.448 | 1.290 | 1.256 | 1.270 | 1.221 | 1.396 | 13.43 |
| 84) | | Bis(2-ethylhex... | 0.936 | 1.011 | 0.899 | 0.819 | 0.813 | 0.838 | 0.800 | 0.874 | 8.95 |
| 85) | c | Di-n-octyl pht... | 1.522 | 1.646 | 1.460 | 1.322 | 1.300 | 1.333 | 1.265 | 1.407 | 9.96 |

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF091521.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.344 | 1.410 | 1.185 | 1.187 | 1.259 | 1.350 | 1.346 | 1.297 | 6.78 |
| 88) | | Benzo(b)fluora... | 1.603 | 1.717 | 1.555 | 1.411 | 1.451 | 1.446 | 1.436 | 1.517 | 7.42 |
| 89) | | Benzo(k)fluora... | 1.540 | 1.738 | 1.430 | 1.374 | 1.268 | 1.274 | 1.148 | 1.396 | 14.10 |
| 90) | C | Benzo(a)pyrene | 1.389 | 1.513 | 1.318 | 1.219 | 1.188 | 1.210 | 1.170 | 1.287 | 9.86 |
| 91) | | Dibenzo(a,h)an... | 1.168 | 1.221 | 1.029 | 1.013 | 1.066 | 1.122 | 1.123 | 1.106 | 6.78 |
| 92) | | Benzo(g,h,i)pe... | 1.093 | 1.147 | 0.965 | 1.001 | 1.094 | 1.158 | 1.158 | 1.088 | 7.12 |

(#) = Out of Range