Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG041724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Apr 18 02:02:19 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BG060916.D 5 =BG060917.D 10 =BG060918.D 20 =BG060919.D 40 =BG060920.D 50 =BG060921.D 60 =BG060922.D 80 =BG0609
23.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.491 | 0.533 | 0.518 | 0.416 | 0.438 | 0.433 | 0.428 | 0.465 | 10.21 |
| 3) | | Pyridine | | 1.530 | 1.485 | 1.538 | 1.381 | 1.491 | 1.492 | 1.449 | 1.481 | 3.57 |
| 4) | | n-Nitrosodimet... | | 0.983 | 0.952 | 0.977 | 0.878 | 0.936 | 0.969 | 0.920 | 0.945 | 3.94 |
| 5) | S | 2-Fluorophenol | | 1.207 | 1.214 | 1.197 | 1.052 | 1.134 | 1.164 | 1.092 | 1.151 | 5.37 |
| 6) | | Aniline | | 1.953 | 2.042 | 2.193 | 1.899 | 1.990 | 2.041 | 2.027 | 2.021 | 4.57 |
| 7) | S | Phenol-d6 | | 1.611 | 1.633 | 1.743 | 1.598 | 1.678 | 1.699 | 1.649 | 1.659 | 3.08 |
| 8) | | 2-Chlorophenol | | 1.296 | 1.330 | 1.385 | 1.227 | 1.297 | 1.342 | 1.293 | 1.310 | 3.77 |
| 9) | | Benzaldehyde | | 0.989 | 0.965 | 1.049 | 0.816 | 0.844 | 0.826 | 0.747 | 0.891 | 12.36 |
| 10) | C | Phenol | | 1.609 | 1.644 | 1.710 | 1.604 | 1.687 | 1.727 | 1.656 | 1.662 | 2.87 |
| 11) | | bis(2-Chloroet... | | 1.296 | 1.294 | 1.356 | 1.233 | 1.280 | 1.308 | 1.259 | 1.289 | 3.02 |
| 12) | | 1,3-Dichlorobe... | | 1.406 | 1.434 | 1.477 | 1.277 | 1.405 | 1.402 | 1.342 | 1.392 | 4.65 |
| 13) | C | 1,4-Dichlorobe... | | 1.464 | 1.464 | 1.493 | 1.325 | 1.410 | 1.432 | 1.386 | 1.425 | 3.99 |
| 14) | | 1,2-Dichlorobe... | | 1.401 | 1.370 | 1.467 | 1.300 | 1.383 | 1.408 | 1.369 | 1.386 | 3.63 |
| 15) | | Benzyl Alcohol | | 1.330 | 1.362 | 1.492 | 1.373 | 1.470 | 1.496 | 1.465 | 1.427 | 4.87 |
| 16) | | 2,2'-oxybis(1-... | | 3.108 | 3.088 | 3.223 | 2.905 | 3.151 | 3.195 | 3.144 | 3.116 | 3.34 |
| 17) | | 2-Methylphenol | | 1.235 | 1.270 | 1.371 | 1.246 | 1.347 | 1.378 | 1.348 | 1.313 | 4.67 |
| 18) | | Hexachloroethane | | 0.518 | 0.518 | 0.523 | 0.470 | 0.510 | 0.510 | 0.492 | 0.506 | 3.71 |
| 19) | P | n-Nitroso-di-n... | 1.294 | 1.173 | 1.212 | 1.320 | 1.205 | 1.307 | 1.328 | 1.269 | 1.263 | 4.67 |
| 20) | | 3+4-Methylphenols | | 1.636 | 1.751 | 1.937 | 1.771 | 1.888 | 1.921 | 1.853 | 1.822 | 5.95 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.574 | 0.570 | 0.601 | 0.538 | 0.573 | 0.576 | 0.554 | 0.570 | 3.42 |
| 23) | S | Nitrobenzene-d5 | | 0.426 | 0.432 | 0.465 | 0.423 | 0.444 | 0.456 | 0.437 | 0.441 | 3.56 |
| 24) | | Nitrobenzene | | 0.412 | 0.429 | 0.463 | 0.415 | 0.429 | 0.448 | 0.430 | 0.432 | 4.13 |
| 25) | | Isophorone | | 0.783 | 0.782 | 0.872 | 0.806 | 0.822 | 0.847 | 0.780 | 0.813 | 4.43 |
| 26) | C | 2-Nitrophenol | | 0.160 | 0.171 | 0.189 | 0.180 | 0.191 | 0.194 | 0.186 | 0.182 | 6.72 |
| 27) | | 2,4-Dimethylph... | | 0.335 | 0.317 | 0.325 | 0.307 | 0.315 | 0.328 | 0.314 | 0.320 | 3.00 |
| 28) | | bis(2-Chloroet... | | 0.471 | 0.464 | 0.477 | 0.433 | 0.450 | 0.465 | 0.440 | 0.457 | 3.57 |
| 29) | C | 2,4-Dichloroph... | | 0.340 | 0.359 | 0.369 | 0.332 | 0.342 | 0.351 | 0.338 | 0.347 | 3.72 |
| 30) | | 1,2,4-Trichlor... | | 0.369 | 0.381 | 0.390 | 0.353 | 0.368 | 0.383 | 0.360 | 0.372 | 3.56 |
| 31) | | Naphthalene | | 1.088 | 1.089 | 1.138 | 1.032 | 1.080 | 1.097 | 1.048 | 1.082 | 3.18 |
| 32) | | Benzoic acid | | 0.210 | 0.227 | 0.281 | 0.251 | 0.287 | 0.282 | 0.277 | 0.259 | 11.80 |
| 33) | | 4-Chloroaniline | | 0.480 | 0.503 | 0.534 | 0.503 | 0.504 | 0.527 | 0.499 | 0.507 | 3.59 |
| 34) | C | Hexachlorobuta... | | 0.280 | 0.269 | 0.274 | 0.249 | 0.261 | 0.267 | 0.253 | 0.265 | 4.22 |
| 35) | | Caprolactam | | 0.127 | 0.120 | 0.138 | 0.128 | 0.129 | 0.132 | 0.121 | 0.128 | 4.78 |
| 36) | C | 4-Chloro-3-met... | | 0.413 | 0.405 | 0.460 | 0.407 | 0.417 | 0.433 | 0.402 | 0.420 | 4.92 |
| 37) | | 2-Methylnaphth... | | 0.807 | 0.810 | 0.873 | 0.796 | 0.815 | 0.833 | 0.794 | 0.818 | 3.35 |
| 38) | | 1-Methylnaphth... | | 0.758 | 0.770 | 0.834 | 0.752 | 0.772 | 0.780 | 0.742 | 0.772 | 3.86 |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.599 | 0.637 | 0.628 | 0.592 | 0.627 | 0.628 | 0.609 | 0.617 | 2.78 |
| 41) | P | Hexachlorocycl... | 0.260 | 0.294 | 0.308 | 0.315 | 0.340 | 0.349 | 0.343 | 0.316 | 10.10 |
| 42) | S | 2,4,6-Tribromo... | 0.331 | 0.337 | 0.348 | 0.321 | 0.334 | 0.333 | 0.309 | 0.330 | 3.72 |
| 43) | C | 2,4,6-Trichlor... | 0.434 | 0.427 | 0.435 | 0.415 | 0.433 | 0.438 | 0.421 | 0.429 | 1.98 |
| 44) | | 2,4,5-Trichlor... | 0.505 | 0.523 | 0.536 | 0.502 | 0.518 | 0.535 | 0.505 | 0.518 | 2.76 |
| 45) | S | 2-Fluorobiphenyl | 1.403 | 1.408 | 1.418 | 1.296 | 1.361 | 1.367 | 1.287 | 1.363 | 3.90 |
| 46) | | 1,1'-Biphenyl | 1.341 | 1.357 | 1.407 | 1.307 | 1.384 | 1.395 | 1.327 | 1.360 | 2.73 |
| 47) | | 2-Chloronaphth... | 0.997 | 1.024 | 1.085 | 1.012 | 1.064 | 1.072 | 1.031 | 1.041 | 3.19 |
| 48) | | 2-Nitroaniline | 0.382 | 0.403 | 0.445 | 0.420 | 0.441 | 0.463 | 0.435 | 0.427 | 6.47 |
| 49) | | Acenaphthylene | 1.722 | 1.784 | 1.817 | 1.702 | 1.773 | 1.796 | 1.726 | 1.760 | 2.47 |
| 50) | | Dimethylphthalate | 1.588 | 1.620 | 1.672 | 1.529 | 1.587 | 1.608 | 1.505 | 1.587 | 3.52 |
| 51) | | 2,6-Dinitrotol... | 0.294 | 0.306 | 0.343 | 0.321 | 0.333 | 0.343 | 0.325 | 0.323 | 5.70 |
| 52) | C | Acenaphthene | 1.062 | 1.080 | 1.119 | 1.025 | 1.051 | 1.096 | 1.038 | 1.067 | 3.11 |
| 53) | | 3-Nitroaniline | 0.337 | 0.350 | 0.382 | 0.348 | 0.360 | 0.367 | 0.341 | 0.355 | 4.44 |
| 54) | P | 2,4-Dinitrophenol | | 0.127 | 0.157 | 0.179 | 0.195 | 0.211 | 0.206 | 0.179 | 17.93 |
| 55) | | Dibenzofuran | 1.803 | 1.832 | 1.903 | 1.741 | 1.800 | 1.835 | 1.708 | 1.803 | 3.56 |
| 56) | P | 4-Nitrophenol | 0.245 | 0.257 | 0.277 | 0.275 | 0.284 | 0.290 | 0.276 | 0.272 | 5.77 |
| 57) | | 2,4-Dinitrotol... | 0.393 | 0.439 | 0.495 | 0.458 | 0.486 | 0.497 | 0.467 | 0.462 | 8.03 |
| 58) | | Fluorene | 1.500 | 1.539 | 1.606 | 1.454 | 1.475 | 1.492 | 1.403 | 1.496 | 4.30 |
| 59) | | 2,3,4,6-Tetrac... | 0.453 | 0.483 | 0.502 | 0.468 | 0.481 | 0.483 | 0.459 | 0.475 | 3.57 |
| 60) | | Diethylphthalate | 1.581 | 1.595 | 1.689 | 1.548 | 1.578 | 1.626 | 1.511 | 1.590 | 3.58 |
| 61) | | 4-Chlorophenyl... | 0.864 | 0.837 | 0.889 | 0.805 | 0.818 | 0.819 | 0.771 | 0.829 | 4.70 |
| 62) | | 4-Nitroaniline | 0.372 | 0.393 | 0.406 | 0.363 | 0.386 | 0.386 | 0.366 | 0.382 | 4.03 |
| 63) | | Azobenzene | 1.464 | 1.504 | 1.588 | 1.452 | 1.506 | 1.538 | 1.436 | 1.498 | 3.54 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.089 | 0.107 | 0.109 | 0.117 | 0.125 | 0.123 | 0.112 | 11.64 |
| 66) | c | n-Nitrosodiphe... | 0.551 | 0.548 | 0.575 | 0.519 | 0.554 | 0.559 | 0.537 | 0.549 | 3.21 |
| 67) | | 4-Bromophenyl-... | 0.225 | 0.218 | 0.233 | 0.215 | 0.227 | 0.231 | 0.220 | 0.224 | 3.06 |
| 68) | | Hexachlorobenzene | 0.242 | 0.241 | 0.253 | 0.234 | 0.245 | 0.252 | 0.240 | 0.244 | 2.80 |
| 69) | | Atrazine | 0.212 | 0.210 | 0.213 | 0.194 | 0.191 | 0.190 | 0.172 | 0.197 | 7.73 |
| 70) | C | Pentachlorophenol | 0.130 | 0.152 | 0.169 | 0.168 | 0.178 | 0.182 | 0.176 | 0.165 | 11.02 |
| 71) | | Phenanthrene | 1.035 | 1.025 | 1.079 | 0.958 | 1.010 | 1.017 | 0.963 | 1.012 | 4.13 |
| 72) | | Anthracene | 1.047 | 1.055 | 1.114 | 0.995 | 1.041 | 1.043 | 0.985 | 1.040 | 4.08 |
| 73) | | Carbazole | 0.937 | 0.936 | 0.960 | 0.858 | 0.897 | 0.905 | 0.850 | 0.906 | 4.56 |
| 74) | | Di-n-butylphth... | 1.114 | 1.125 | 1.170 | 1.037 | 1.077 | 1.097 | 1.015 | 1.091 | 4.88 |
| 75) | C | Fluoranthene | 1.381 | 1.353 | 1.391 | 1.199 | 1.260 | 1.266 | 1.169 | 1.289 | 6.85 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.497 | 0.467 | 0.403 | 0.467 | 0.417 | 0.417 | 0.419 | 0.441 | 8.02 |
| 78) | | Pyrene | 1.381 | 1.386 | 1.481 | 1.329 | 1.358 | 1.380 | 1.289 | 1.372 | 4.33 |
| 79) | S | Terphenyl-d14 | 1.228 | 1.232 | 1.276 | 1.107 | 1.098 | 1.097 | 0.983 | 1.146 | 9.01 |
| 80) | | Butylbenzylpht... | 0.493 | 0.493 | 0.532 | 0.484 | 0.509 | 0.519 | 0.498 | 0.504 | 3.36 |
| 81) | | Benzo(a)anthra... | 1.438 | 1.409 | 1.496 | 1.355 | 1.402 | 1.418 | 1.368 | 1.412 | 3.29 |
| 82) | | 3,3'-Dichlorob... | 0.519 | 0.503 | 0.534 | 0.488 | 0.501 | 0.498 | 0.478 | 0.503 | 3.70 |
| 83) | | Chrysene | 1.325 | 1.368 | 1.420 | 1.300 | 1.358 | 1.374 | 1.294 | 1.348 | 3.32 |
| 84) | | Bis(2-ethylhex... | 0.736 | 0.740 | 0.798 | 0.712 | 0.744 | 0.763 | 0.724 | 0.745 | 3.77 |
| 85) | c | Di-n-octyl pht... | 1.274 | 1.275 | 1.357 | 1.231 | 1.291 | 1.318 | 1.254 | 1.286 | 3.25 |

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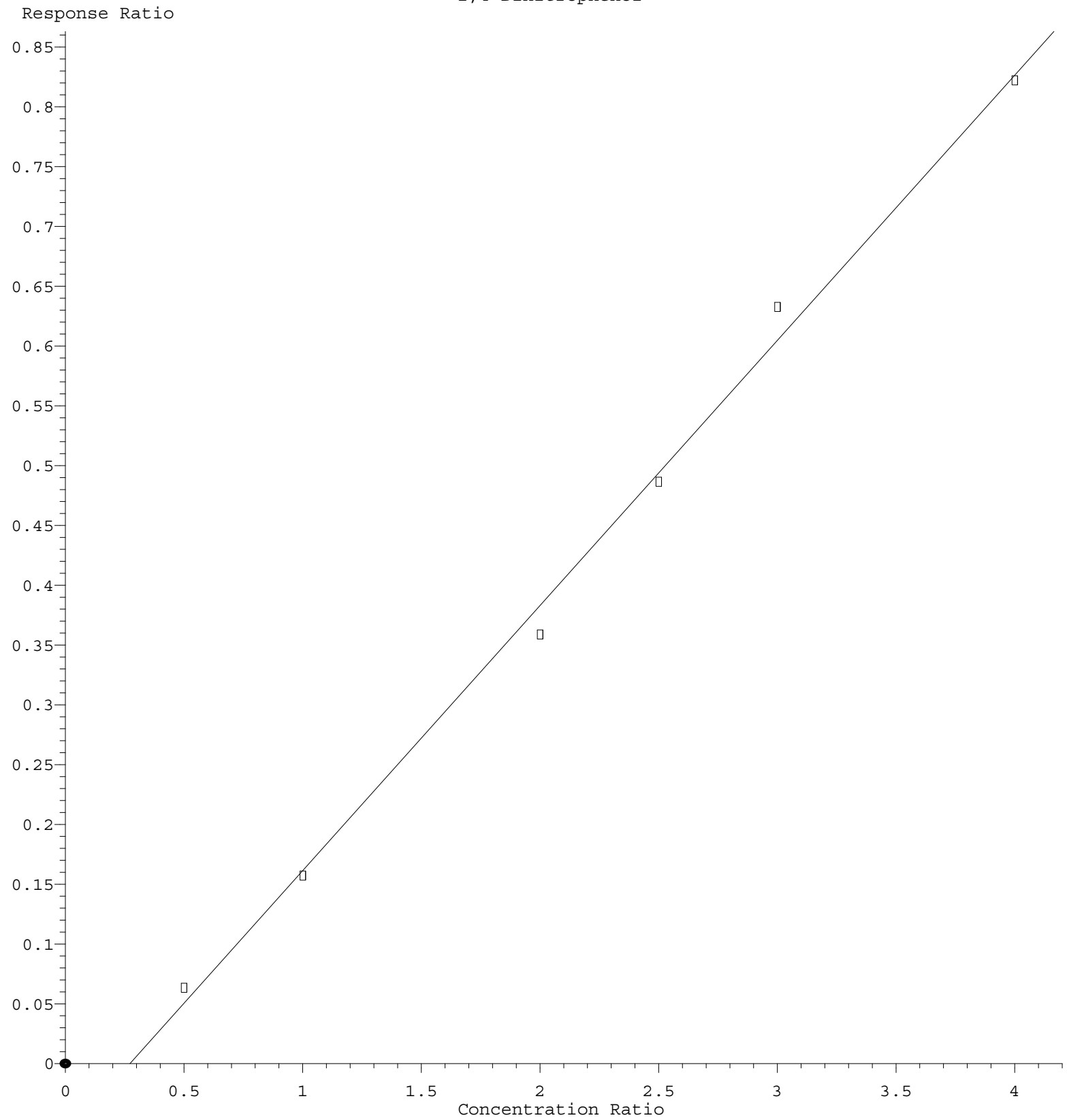
Method File : 8270-BG041724.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.299 | 1.350 | 1.458 | 1.328 | 1.403 | 1.447 | 1.396 | 1.383 | 4.31 |
| 88) | | Benzo(b)fluora... | 1.102 | 1.144 | 1.182 | 1.090 | 1.123 | 1.186 | 1.094 | 1.132 | 3.56 |
| 89) | | Benzo(k)fluora... | 1.143 | 1.147 | 1.211 | 1.101 | 1.179 | 1.194 | 1.129 | 1.158 | 3.34 |
| 90) | C | Benzo(a)pyrene | 1.125 | 1.108 | 1.166 | 1.059 | 1.112 | 1.146 | 1.093 | 1.116 | 3.11 |
| 91) | | Dibenzo(a,h)an... | 1.015 | 1.113 | 1.209 | 1.107 | 1.169 | 1.195 | 1.161 | 1.138 | 5.84 |
| 92) | | Benzo(g,h,i)pe... | 1.076 | 1.093 | 1.134 | 1.071 | 1.130 | 1.167 | 1.120 | 1.113 | 3.12 |

(#) = Out of Range

2,4-Dinitrophenol




Response = 2.217e-001 * Amt - 6.026e-002
Coef of Det (r^2) = 0.996043  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG041724.M
Calibration Table Last Updated: Thu Apr 18 02:02:19 2024