Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM020824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 09 02:42:01 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BM044019.D 5 =BM044020.D 10 =BM044021.D 20 =BM044022.D 40 =BM044023.D 50 =BM044024.D 60 =BM044025.D 80 =BM0440
26.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.572 | 0.559 | 0.549 | 0.525 | 0.531 | 0.543 | 0.540 | 0.546 | 2.96 |
| 3) | | Pyridine | | 1.422 | 1.443 | 1.447 | 1.417 | 1.425 | 1.477 | 1.455 | 1.441 | 1.48 |
| 4) | | n-Nitrosodimet... | | 0.513 | 0.536 | 0.548 | 0.541 | 0.552 | 0.572 | 0.564 | 0.547 | 3.53 |
| 5) | S | 2-Fluorophenol | | 1.424 | 1.407 | 1.400 | 1.330 | 1.350 | 1.374 | 1.340 | 1.375 | 2.63 |
| 6) | | Aniline | | 1.699 | 1.700 | 1.762 | 1.707 | 1.718 | 1.756 | 1.700 | 1.720 | 1.59 |
| 7) | S | Phenol-d6 | | 1.781 | 1.804 | 1.812 | 1.708 | 1.715 | 1.748 | 1.679 | 1.750 | 2.92 |
| 8) | | 2-Chlorophenol | | 1.467 | 1.457 | 1.483 | 1.393 | 1.415 | 1.431 | 1.406 | 1.436 | 2.34 |
| 9) | | Benzaldehyde | | | 1.101 | 1.008 | 0.875 | 0.838 | 0.837 | 0.737 | 0.899 | 14.66 |
| 10) | C | Phenol | | 1.784 | 1.780 | 1.825 | 1.722 | 1.748 | 1.779 | 1.724 | 1.766 | 2.09 |
| 11) | | bis(2-Chloroet... | | 1.471 | 1.487 | 1.511 | 1.424 | 1.440 | 1.474 | 1.429 | 1.462 | 2.20 |
| 12) | | 1,3-Dichlorobe... | | 1.701 | 1.674 | 1.674 | 1.578 | 1.585 | 1.617 | 1.584 | 1.630 | 3.15 |
| 13) | C | 1,4-Dichlorobe... | | 1.716 | 1.686 | 1.692 | 1.589 | 1.598 | 1.624 | 1.598 | 1.643 | 3.24 |
| 14) | | 1,2-Dichlorobe... | | 1.634 | 1.634 | 1.627 | 1.512 | 1.522 | 1.538 | 1.495 | 1.566 | 3.99 |
| 15) | | Benzyl Alcohol | | 1.108 | 1.142 | 1.192 | 1.126 | 1.139 | 1.150 | 1.117 | 1.139 | 2.41 |
| 16) | | 2,2'-oxybis(1-... | | 1.925 | 1.925 | 1.927 | 1.804 | 1.807 | 1.821 | 1.768 | 1.854 | 3.72 |
| 17) | | 2-Methylphenol | | 1.160 | 1.175 | 1.204 | 1.136 | 1.142 | 1.170 | 1.127 | 1.159 | 2.28 |
| 18) | | Hexachloroethane | | 0.619 | 0.636 | 0.630 | 0.595 | 0.603 | 0.618 | 0.607 | 0.615 | 2.42 |
| 19) | P | n-Nitroso-di-n... | 1.098 | 1.108 | 1.118 | 1.151 | 1.054 | 1.042 | 1.038 | 0.984 | 1.074 | 5.02 |
| 20) | | 3+4-Methylphenols | | 1.545 | 1.632 | 1.672 | 1.581 | 1.568 | 1.611 | 1.557 | 1.595 | 2.84 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.514 | 0.524 | 0.522 | 0.498 | 0.502 | 0.508 | 0.486 | 0.508 | 2.72 |
| 23) | S | Nitrobenzene-d5 | | 0.378 | 0.378 | 0.385 | 0.370 | 0.376 | 0.380 | 0.371 | 0.377 | 1.38 |
| 24) | | Nitrobenzene | | 0.387 | 0.386 | 0.393 | 0.381 | 0.384 | 0.390 | 0.381 | 0.386 | 1.17 |
| 25) | | Isophorone | | 0.711 | 0.728 | 0.747 | 0.719 | 0.722 | 0.739 | 0.713 | 0.726 | 1.82 |
| 26) | C | 2-Nitrophenol | | 0.154 | 0.168 | 0.178 | 0.180 | 0.187 | 0.194 | 0.191 | 0.179 | 7.80 |
| 27) | | 2,4-Dimethylph... | | 0.216 | 0.228 | 0.232 | 0.228 | 0.231 | 0.237 | 0.229 | 0.229 | 2.77 |
| 28) | | bis(2-Chloroet... | | 0.475 | 0.478 | 0.478 | 0.460 | 0.464 | 0.474 | 0.456 | 0.469 | 1.91 |
| 29) | C | 2,4-Dichloroph... | | 0.278 | 0.294 | 0.306 | 0.300 | 0.307 | 0.316 | 0.308 | 0.301 | 4.12 |
| 30) | | 1,2,4-Trichlor... | | 0.344 | 0.336 | 0.344 | 0.331 | 0.336 | 0.344 | 0.336 | 0.339 | 1.54 |
| 31) | | Naphthalene | | 1.135 | 1.134 | 1.128 | 1.073 | 1.090 | 1.100 | 1.067 | 1.104 | 2.62 |
| 32) | | Benzoic acid | | | 0.176 | 0.217 | 0.232 | 0.244 | 0.258 | 0.256 | 0.230 | 13.33 |
| 33) | | 4-Chloroaniline | | 0.412 | 0.415 | 0.423 | 0.411 | 0.419 | 0.430 | 0.417 | 0.418 | 1.55 |
| 34) | C | Hexachlorobuta... | | 0.196 | 0.196 | 0.197 | 0.189 | 0.193 | 0.196 | 0.190 | 0.194 | 1.71 |
| 35) | | Caprolactam | | 0.085 | 0.091 | 0.096 | 0.097 | 0.101 | 0.106 | 0.103 | 0.097 | 7.47 |
| 36) | C | 4-Chloro-3-met... | | 0.307 | 0.322 | 0.334 | 0.325 | 0.330 | 0.339 | 0.327 | 0.326 | 3.16 |
| 37) | | 2-Methylnaphth... | | 0.764 | 0.757 | 0.757 | 0.721 | 0.719 | 0.726 | 0.703 | 0.735 | 3.22 |
| 38) | | 1-Methylnaphth... | | 0.760 | 0.748 | 0.740 | 0.701 | 0.706 | 0.714 | 0.688 | 0.722 | 3.75 |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.583 | 0.576 | 0.585 | 0.570 | 0.582 | 0.593 | 0.580 | 0.581 | 1.24 |
| 41) | P | Hexachlorocycl... | 0.235 | 0.239 | 0.258 | 0.256 | 0.260 | 0.269 | 0.259 | 0.254 | 4.79 |
| 42) | S | 2,4,6-Tribromo... | 0.197 | 0.209 | 0.218 | 0.219 | 0.223 | 0.229 | 0.221 | 0.217 | 4.91 |
| 43) | C | 2,4,6-Trichlor... | 0.362 | 0.377 | 0.401 | 0.398 | 0.409 | 0.416 | 0.406 | 0.396 | 4.81 |
| 44) | | 2,4,5-Trichlor... | 0.389 | 0.418 | 0.442 | 0.437 | 0.446 | 0.461 | 0.445 | 0.434 | 5.46 |
| 45) | S | 2-Fluorobiphenyl | 1.534 | 1.515 | 1.495 | 1.381 | 1.359 | 1.354 | 1.280 | 1.417 | 6.86 |
| 46) | | 1,1'-Biphenyl | 1.611 | 1.607 | 1.635 | 1.554 | 1.555 | 1.572 | 1.513 | 1.578 | 2.66 |
| 47) | | 2-Chloronaphth... | 1.255 | 1.260 | 1.284 | 1.231 | 1.238 | 1.259 | 1.224 | 1.250 | 1.64 |
| 48) | | 2-Nitroaniline | 0.315 | 0.330 | 0.351 | 0.353 | 0.365 | 0.378 | 0.369 | 0.352 | 6.36 |
| 49) | | Acenaphthylene | 1.849 | 1.892 | 1.913 | 1.849 | 1.853 | 1.886 | 1.812 | 1.865 | 1.82 |
| 50) | | Dimethylphthalate | 1.517 | 1.496 | 1.501 | 1.456 | 1.470 | 1.498 | 1.443 | 1.483 | 1.82 |
| 51) | | 2,6-Dinitrotol... | 0.301 | 0.318 | 0.330 | 0.330 | 0.332 | 0.344 | 0.337 | 0.327 | 4.35 |
| 52) | C | Acenaphthene | 1.194 | 1.175 | 1.190 | 1.131 | 1.133 | 1.143 | 1.114 | 1.154 | 2.75 |
| 53) | | 3-Nitroaniline | 0.300 | 0.328 | 0.347 | 0.357 | 0.367 | 0.385 | 0.377 | 0.352 | 8.43 |
| 54) | P | 2,4-Dinitrophenol | | 0.124 | 0.152 | 0.167 | 0.184 | 0.198 | 0.197 | 0.170 | 16.99 |
| 55) | | Dibenzofuran | 1.876 | 1.862 | 1.835 | 1.746 | 1.743 | 1.759 | 1.684 | 1.787 | 4.01 |
| 56) | P | 4-Nitrophenol | 0.223 | 0.257 | 0.277 | 0.293 | 0.311 | 0.325 | 0.315 | 0.286 | 12.77 |
| 57) | | 2,4-Dinitrotol... | 0.366 | 0.407 | 0.423 | 0.435 | 0.449 | 0.463 | 0.450 | 0.428 | 7.66 |
| 58) | | Fluorene | 1.509 | 1.485 | 1.451 | 1.343 | 1.319 | 1.311 | 1.246 | 1.381 | 7.28 |
| 59) | | 2,3,4,6-Tetrac... | 0.325 | 0.339 | 0.349 | 0.342 | 0.341 | 0.352 | 0.338 | 0.341 | 2.59 |
| 60) | | Diethylphthalate | 1.557 | 1.555 | 1.548 | 1.500 | 1.521 | 1.555 | 1.492 | 1.533 | 1.83 |
| 61) | | 4-Chlorophenyl... | 0.729 | 0.724 | 0.703 | 0.653 | 0.639 | 0.636 | 0.598 | 0.669 | 7.50 |
| 62) | | 4-Nitroaniline | 0.298 | 0.336 | 0.346 | 0.356 | 0.370 | 0.392 | 0.380 | 0.354 | 8.88 |
| 63) | | Azobenzene | 1.422 | 1.471 | 1.474 | 1.422 | 1.422 | 1.460 | 1.393 | 1.438 | 2.12 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.097 | 0.113 | 0.117 | 0.126 | 0.130 | 0.132 | 0.119 | 10.98 |
| 66) | c | n-Nitrosodiphe... | 0.615 | 0.620 | 0.638 | 0.595 | 0.600 | 0.599 | 0.587 | 0.608 | 2.91 |
| 67) | | 4-Bromophenyl-... | 0.193 | 0.190 | 0.202 | 0.194 | 0.201 | 0.202 | 0.202 | 0.198 | 2.64 |
| 68) | | Hexachlorobenzene | 0.248 | 0.247 | 0.251 | 0.237 | 0.238 | 0.239 | 0.236 | 0.242 | 2.47 |
| 69) | | Atrazine | 0.189 | 0.186 | 0.180 | 0.171 | 0.154 | 0.144 | 0.128 | 0.165 | 13.96 |
| 70) | C | Pentachlorophenol | 0.138 | 0.152 | 0.163 | 0.162 | 0.164 | 0.165 | 0.159 | 0.158 | 6.22 |
| 71) | | Phenanthrene | 1.102 | 1.095 | 1.090 | 1.033 | 1.032 | 1.030 | 1.011 | 1.056 | 3.57 |
| 72) | | Anthracene | 1.062 | 1.072 | 1.078 | 1.029 | 1.031 | 1.038 | 1.010 | 1.046 | 2.41 |
| 73) | | Carbazole | 1.025 | 1.046 | 1.036 | 1.000 | 1.006 | 1.015 | 0.989 | 1.017 | 1.99 |
| 74) | | Di-n-butylphth... | 1.248 | 1.303 | 1.351 | 1.325 | 1.356 | 1.361 | 1.308 | 1.322 | 3.01 |
| 75) | C | Fluoranthene | 1.208 | 1.217 | 1.195 | 1.159 | 1.180 | 1.190 | 1.154 | 1.186 | 1.99 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.345 | 0.210 | 0.169 | 0.411 | 0.344 | 0.368 | 0.329 | 0.311 | 28.27 |
| 78) | | Pyrene | 1.518 | 1.538 | 1.583 | 1.509 | 1.533 | 1.572 | 1.528 | 1.540 | 1.78 |
| 79) | S | Terphenyl-d14 | 1.233 | 1.242 | 1.239 | 1.117 | 1.081 | 1.061 | 1.013 | 1.141 | 8.41 |
| 80) | | Butylbenzylpht... | 0.575 | 0.618 | 0.686 | 0.695 | 0.730 | 0.751 | 0.739 | 0.685 | 9.62 |
| 81) | | Benzo(a)anthra... | 1.395 | 1.388 | 1.418 | 1.359 | 1.391 | 1.413 | 1.374 | 1.391 | 1.50 |
| 82) | | 3,3'-Dichlorob... | 0.445 | 0.458 | 0.465 | 0.464 | 0.462 | 0.467 | 0.434 | 0.456 | 2.73 |
| 83) | | Chrysene | 1.322 | 1.330 | 1.345 | 1.282 | 1.307 | 1.330 | 1.285 | 1.314 | 1.83 |
| 84) | | Bis(2-ethylhex... | 0.919 | 0.988 | 1.064 | 1.030 | 1.041 | 1.042 | 0.988 | 1.010 | 4.87 |
| 85) | c | Di-n-octyl pht... | 1.492 | 1.581 | 1.747 | 1.794 | 1.899 | 1.947 | 1.889 | 1.764 | 9.71 |

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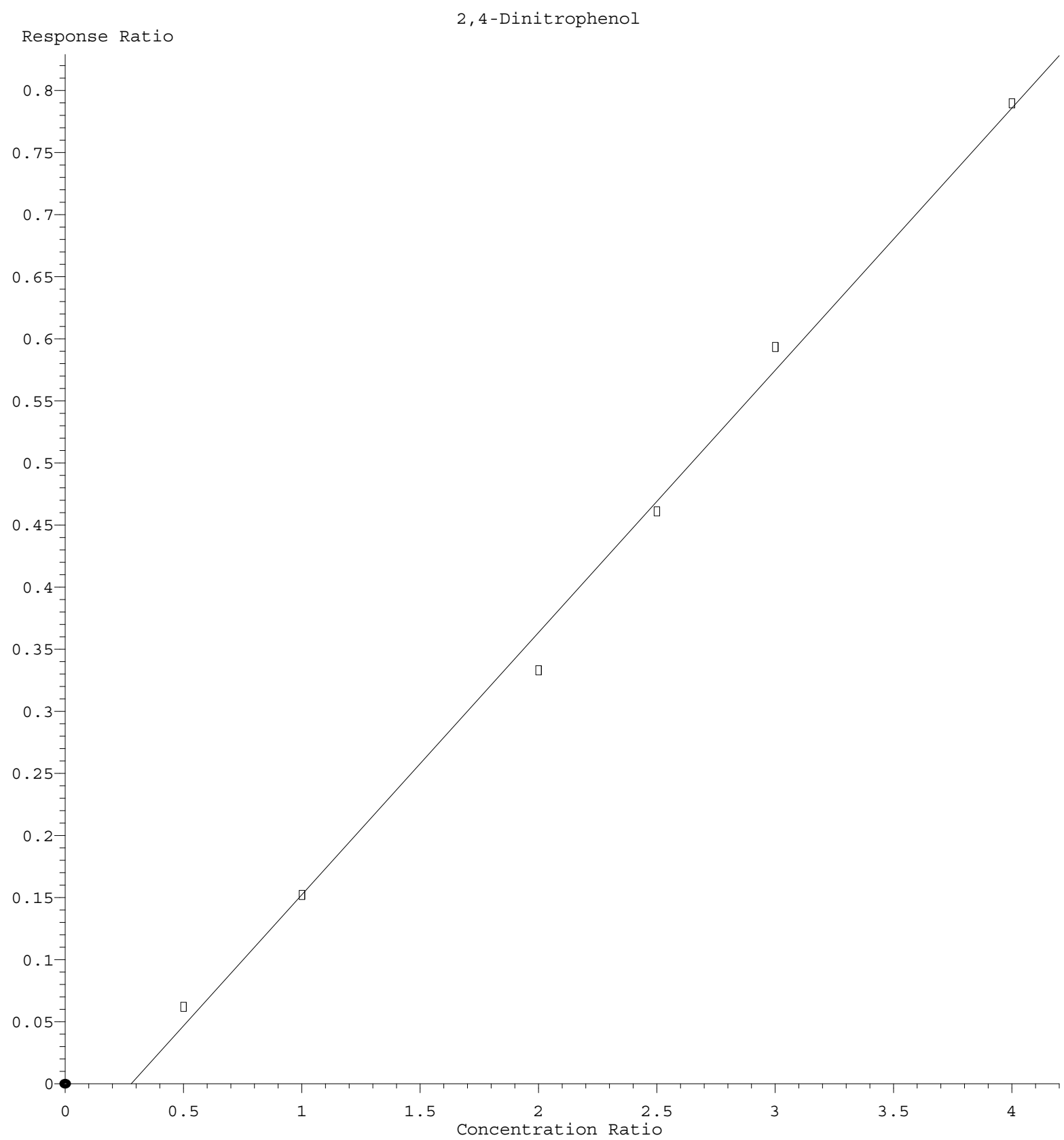
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.398 | 1.393 | 1.446 | 1.398 | 1.415 | 1.441 | 1.418 | 1.416 | 1.49 |
| 88) | | Benzo(b)fluora... | 1.229 | 1.227 | 1.285 | 1.225 | 1.260 | 1.281 | 1.244 | 1.250 | 2.04 |
| 89) | | Benzo(k)fluora... | 1.223 | 1.221 | 1.211 | 1.175 | 1.160 | 1.165 | 1.162 | 1.188 | 2.44 |
| 90) | C | Benzo(a)pyrene | 1.076 | 1.066 | 1.111 | 1.077 | 1.094 | 1.122 | 1.099 | 1.092 | 1.84 |
| 91) | | Dibenzo(a,h)an... | 1.187 | 1.174 | 1.219 | 1.177 | 1.175 | 1.191 | 1.165 | 1.184 | 1.50 |
| 92) | | Benzo(g,h,i)pe... | 1.188 | 1.171 | 1.210 | 1.190 | 1.200 | 1.234 | 1.212 | 1.201 | 1.70 |

(#) = Out of Range




Response = 2.112e-001 * Amt - 5.900e-002
Coef of Det (r^2) = 0.995744  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM020824.M
Calibration Table Last Updated: Fri Feb 09 02:42:01 2024