Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM031325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Mar 13 14:55:34 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM049706.D 5 =BM049707.D 10 =BM049708.D 20 =BM049709.D 40 =BM049710.D 50 =BM049711.D 60 =BM049712.D 80 =BM0497
13.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.503	0.485	0.525	0.497	0.512	0.528	0.541	0.513	3.81
3)		Pyridine		1.250	1.282	1.329	1.299	1.307	1.352	1.353	1.310	2.88
4)		n-Nitrosodimet...		0.546	0.572	0.600	0.565	0.584	0.600	0.592	0.580	3.48
5)	S	2-Fluorophenol		1.027	1.092	1.201	1.176	1.239	1.275	1.288	1.185	8.14
6)		Aniline		1.219	1.276	1.306	1.221	1.246	1.246	1.209	1.246	2.78
7)	S	Phenol-d6		1.325	1.383	1.498	1.470	1.553	1.580	1.603	1.487	6.93
8)		2-Chlorophenol		1.091	1.111	1.193	1.148	1.209	1.226	1.237	1.174	4.89
9)		Benzaldehyde			0.864	0.830	0.683	0.685	0.615		0.735	14.48
10)	C	Phenol		1.356	1.372	1.463	1.400	1.478	1.509	1.518	1.442	4.56
11)		bis(2-Chloroet...		1.132	1.141	1.189	1.122	1.178	1.201	1.212	1.168	3.06
12)		1,3-Dichlorobe...		1.376	1.380	1.438	1.367	1.462	1.471	1.491	1.426	3.60
13)	C	1,4-Dichlorobe...		1.384	1.386	1.470	1.390	1.460	1.483	1.501	1.439	3.52
14)		1,2-Dichlorobe...		1.307	1.325	1.405	1.330	1.397	1.398	1.412	1.368	3.27
15)		Benzyl Alcohol		0.818	0.862	0.932	0.929	0.977	0.996	1.019	0.933	7.78
16)		2,2'-oxybis(1-...		1.386	1.374	1.425	1.323	1.367	1.364	1.368	1.373	2.21
17)		2-Methylphenol		0.769	0.805	0.876	0.847	0.890	0.899	0.909	0.856	6.09
18)		Hexachloroethane		0.481	0.488	0.512	0.499	0.522	0.521	0.535	0.508	3.87
19)	P	n-Nitroso-di-n...	0.766	0.820	0.815	0.892	0.867	0.901	0.914	0.925	0.863	6.54
20)		3+4-Methylphenols		1.022	1.077	1.168	1.139	1.183	1.211	1.234	1.148	6.55
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.480	0.483	0.516	0.506	0.527	0.548	0.549	0.516	5.43
23)	S	Nitrobenzene-d5		0.343	0.361	0.392	0.385	0.403	0.420	0.422	0.390	7.57
24)		Nitrobenzene		0.340	0.341	0.375	0.360	0.375	0.389	0.392	0.367	5.79
25)		Isophorone		0.531	0.533	0.599	0.590	0.619	0.647	0.668	0.598	8.78
26)	C	2-Nitrophenol		0.115	0.129	0.153	0.158	0.171	0.181	0.188	0.156	17.03
27)		2,4-Dimethylph...		0.169	0.179	0.199	0.197	0.209	0.218	0.223	0.199	9.96
28)		bis(2-Chloroet...		0.399	0.389	0.430	0.407	0.431	0.440	0.453	0.421	5.57
29)	C	2,4-Dichloroph...		0.272	0.289	0.328	0.323	0.342	0.353	0.364	0.324	10.32
30)		1,2,4-Trichlor...		0.376	0.376	0.416	0.391	0.414	0.428	0.439	0.406	6.13
31)		Naphthalene		0.947	0.952	1.029	0.998	1.059	1.097	1.117	1.028	6.50
32)		Benzoic acid			0.122	0.144	0.164	0.179	0.199	0.208	0.169	19.39
33)		4-Chloroaniline		0.315	0.329	0.359	0.350	0.357	0.371	0.377	0.351	6.34
34)	C	Hexachlorobuta...		0.224	0.229	0.254	0.243	0.261	0.267	0.276	0.250	7.76
35)		Caprolactam		0.058	0.061	0.073	0.078	0.079	0.087	0.090	0.075	16.14
36)	C	4-Chloro-3-met...		0.233	0.240	0.273	0.281	0.289	0.310	0.323	0.278	12.01
37)		2-Methylnaphth...		0.663	0.656	0.713	0.704	0.735	0.768	0.794	0.719	7.10
38)		1-Methylnaphth...		0.639	0.640	0.684	0.675	0.711	0.741	0.765	0.694	6.96

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.633	0.653	0.724	0.720	0.781	0.799	0.833	0.735	10.17
41)	P	Hexachlorocycl...	0.223	0.232	0.266	0.275	0.300	0.300	0.309	0.272	12.53
42)	S	2,4,6-Tribromo...	0.173	0.193	0.226	0.250	0.270	0.289		0.234	19.21
43)	C	2,4,6-Trichlor...	0.315	0.344	0.404	0.418	0.448	0.465	0.485	0.411	15.24
44)		2,4,5-Trichlor...	0.358	0.385	0.443	0.458	0.478	0.504	0.517	0.449	13.13
45)	S	2-Fluorobiphenyl	1.388	1.419	1.563	1.587	1.696	1.744	1.781	1.597	9.62
46)		1,1'-Biphenyl	1.398	1.399	1.539	1.523	1.606	1.642	1.683	1.541	7.28
47)		2-Chloronaphth...	1.085	1.115	1.194	1.177	1.244	1.283	1.301	1.200	6.80
48)		2-Nitroaniline	0.193	0.225	0.262	0.280	0.294	0.312	0.320	0.269	17.26
49)		Acenaphthylene	1.455	1.502	1.656	1.671	1.755	1.823	1.877	1.677	9.36
50)		Dimethylphthalate	1.253	1.262	1.377	1.370	1.402	1.464	1.512	1.377	6.97
51)		2,6-Dinitrotol...	0.225	0.246	0.274	0.281	0.288	0.304	0.314	0.276	11.34
52)	C	Acenaphthene	0.979	0.985	1.072	1.101	1.145	1.194	1.223	1.100	8.69
53)		3-Nitroaniline	0.198	0.222	0.259	0.273	0.277	0.300	0.310	0.263	15.43
54)	P	2,4-Dinitrophenol		0.083	0.111	0.132	0.145	0.159	0.174	0.134	24.72
55)		Dibenzofuran	1.664	1.705	1.814	1.791	1.882	1.956	2.018	1.833	7.00
56)	P	4-Nitrophenol		0.172	0.210	0.233	0.232	0.257	0.267	0.229	15.05
57)		2,4-Dinitrotol...	0.260	0.294	0.345	0.371	0.379	0.411	0.425	0.355	17.00
58)		Fluorene	1.255	1.297	1.454	1.498	1.564	1.646	1.732	1.492	11.67
59)		2,3,4,6-Tetrac...	0.292	0.325	0.366	0.385	0.394	0.419	0.450	0.376	14.39
60)		Diethylphthalate	1.135	1.170	1.285	1.299	1.338	1.388	1.463	1.297	8.90
61)		4-Chlorophenyl...	0.666	0.702	0.783	0.818	0.870	0.902	0.963	0.815	13.12
62)		4-Nitroaniline	0.182	0.219	0.267	0.299	0.297	0.323	0.329	0.274	20.05
63)		Azobenzene	1.072	1.109	1.232	1.245	1.286	1.337	1.390	1.239	9.30
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.067	0.087	0.100	0.109	0.119	0.128	0.102	21.84
66)	c	n-Nitrosodiphe...	0.530	0.530	0.603	0.600	0.644	0.656	0.679	0.606	9.72
67)		4-Bromophenyl-...	0.192	0.201	0.227	0.226	0.249	0.251	0.270	0.231	12.13
68)		Hexachlorobenzene	0.229	0.232	0.253	0.251	0.274	0.281	0.297	0.260	9.77
69)		Atrazine	0.146	0.151	0.144	0.128	0.098			0.134	16.15
70)	C	Pentachlorophenol		0.118	0.145	0.161	0.171	0.185	0.200	0.163	17.87
71)		Phenanthrene	0.968	1.001	1.085	1.093	1.158	1.216	1.253	1.111	9.52
72)		Anthracene	0.892	0.933	1.055	1.066	1.144	1.193	1.246	1.076	12.13
73)		Carbazole	0.785	0.855	0.952	0.991	1.016	1.091	1.128	0.974	12.57
74)		Di-n-butylphth...	0.808	0.885	1.042	1.082	1.164	1.201	1.289	1.068	16.12
75)	C	Fluoranthene	0.974	1.060	1.203	1.300	1.353	1.482	1.579	1.279	17.01
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.185	0.287	0.210	0.273	0.219	0.267	0.240	17.00
78)		Pyrene	1.240	1.253	1.390	1.328	1.468	1.540	1.562	1.397	9.37
79)	S	Terphenyl-d14	0.978	1.021	1.204	1.207	1.352	1.374	1.171	1.187	12.60
80)		Butylbenzylpht...	0.323	0.352	0.428	0.432	0.482	0.491	0.527	0.434	17.19
81)		Benzo(a)anthra...	1.150	1.186	1.318	1.307	1.414	1.462	1.515	1.336	10.23
82)		3,3'-Dichlorob...		0.317	0.396	0.411	0.474	0.479	0.532	0.435	17.44
83)		Chrysene	1.072	1.134	1.259	1.242	1.333	1.390	1.436	1.266	10.41
84)		Bis(2-ethylhex...	0.491	0.541	0.678	0.678	0.771	0.748	0.824	0.676	17.97
85)	c	Di-n-octyl pht...		0.774	0.954	1.009	1.146	1.130	1.290	1.050	17.04

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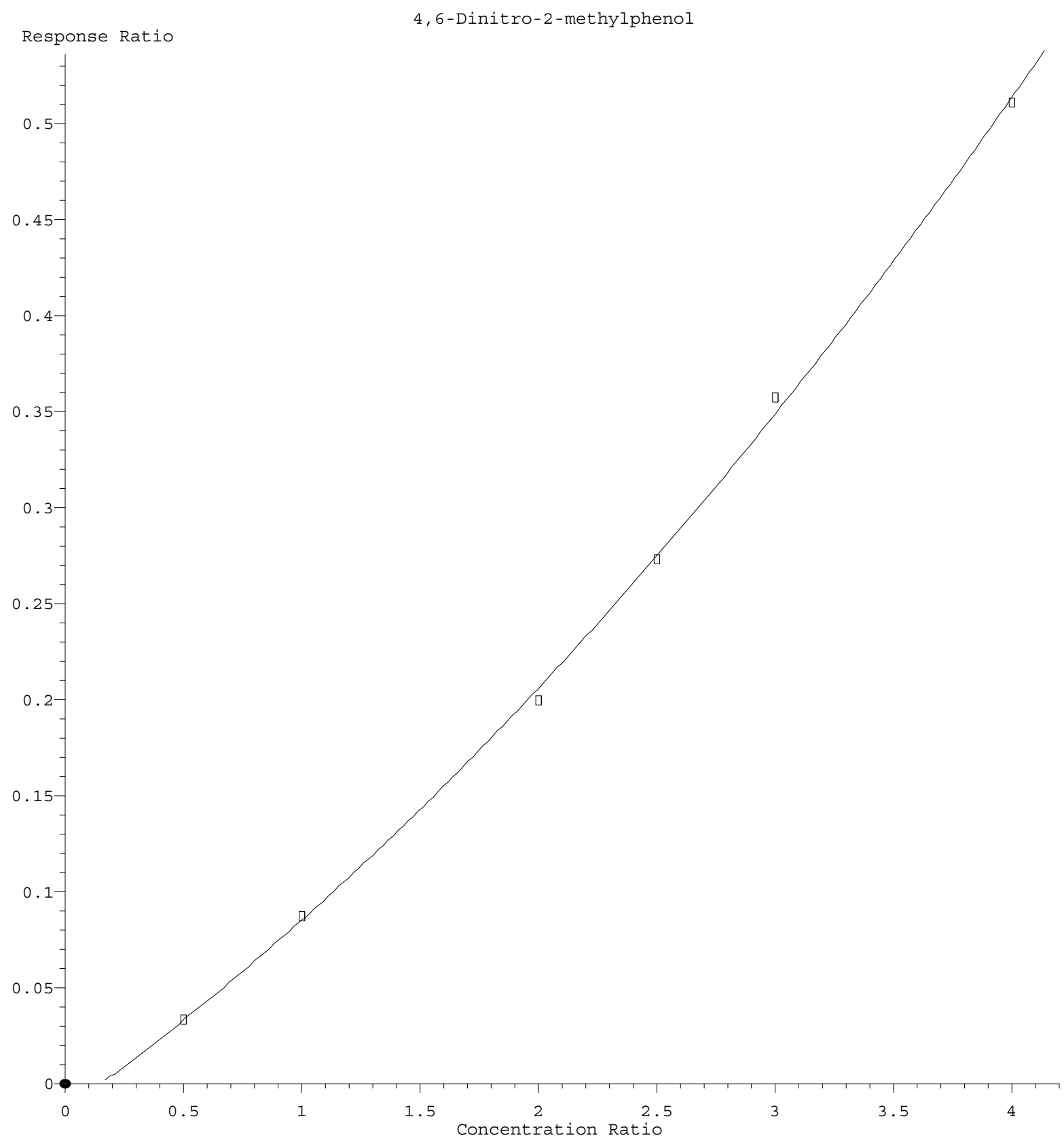
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.135	1.213	1.382	1.431	1.567	1.630	1.720	1.440	14.96
88)		Benzo(b)fluora...	1.088	1.138	1.297	1.330	1.433	1.508	1.636	1.347	14.54
89)		Benzo(k)fluora...	1.086	1.148	1.294	1.291	1.408	1.479	1.573	1.325	13.16
90)	C	Benzo(a)pyrene	0.899	0.948	1.085	1.120	1.210	1.280	1.378	1.131	15.28
91)		Dibenzo(a,h)an...	0.940	1.023	1.151	1.188	1.299	1.354	1.440	1.199	14.94
92)		Benzo(g,h,i)pe...	0.990	1.043	1.173	1.203	1.296	1.345	1.407	1.208	12.76

(#) = Out of Range



R = 1.100e-002 A*A + 8.778e-002 A - 1.348e-002
Coef of Det (r^2) = 0.999178 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM031325.M
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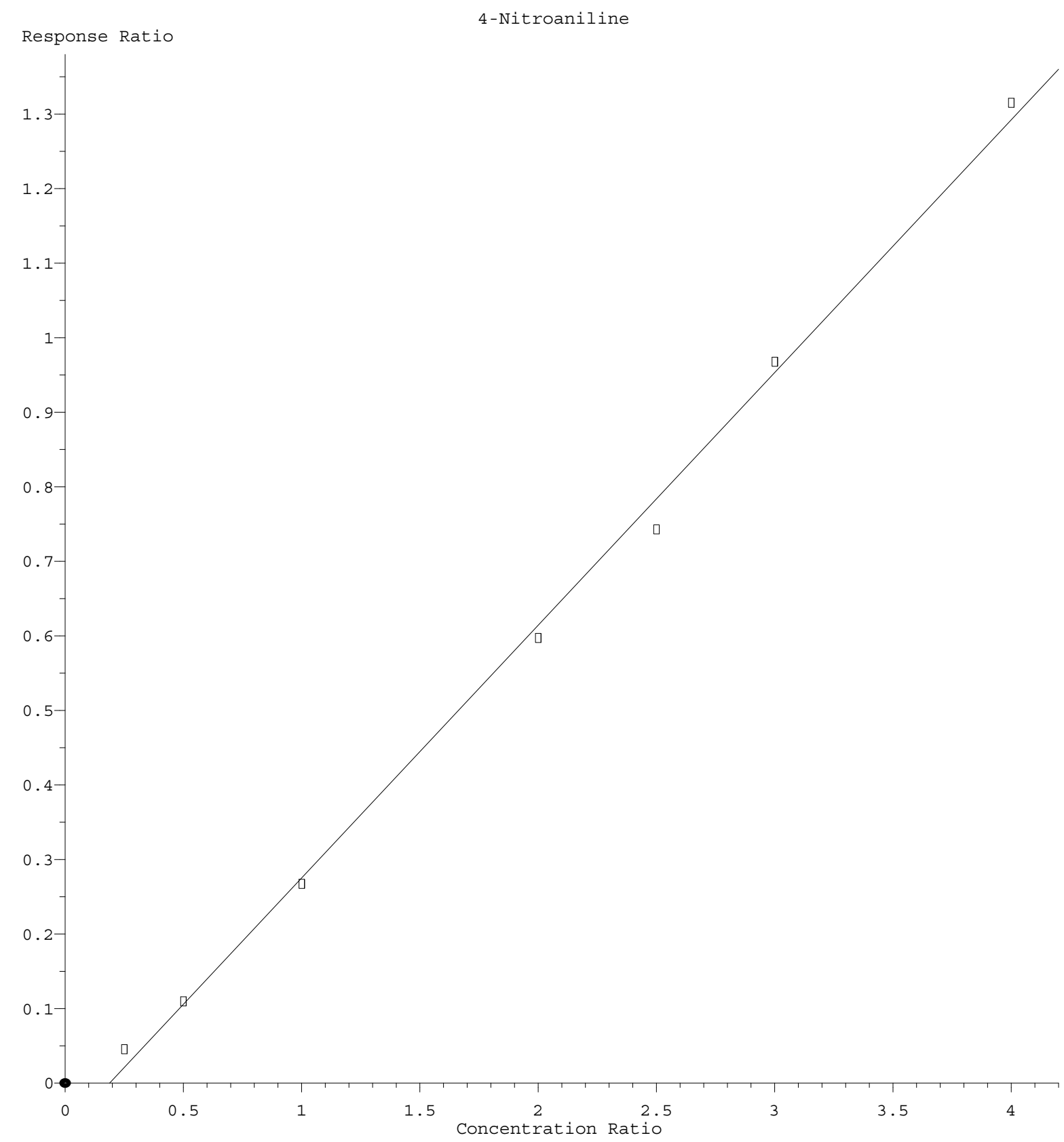

Response = 3.389e-001 * Amt - 6.367e-002
Coef of Det (r^2) = 0.997445 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM031325.M
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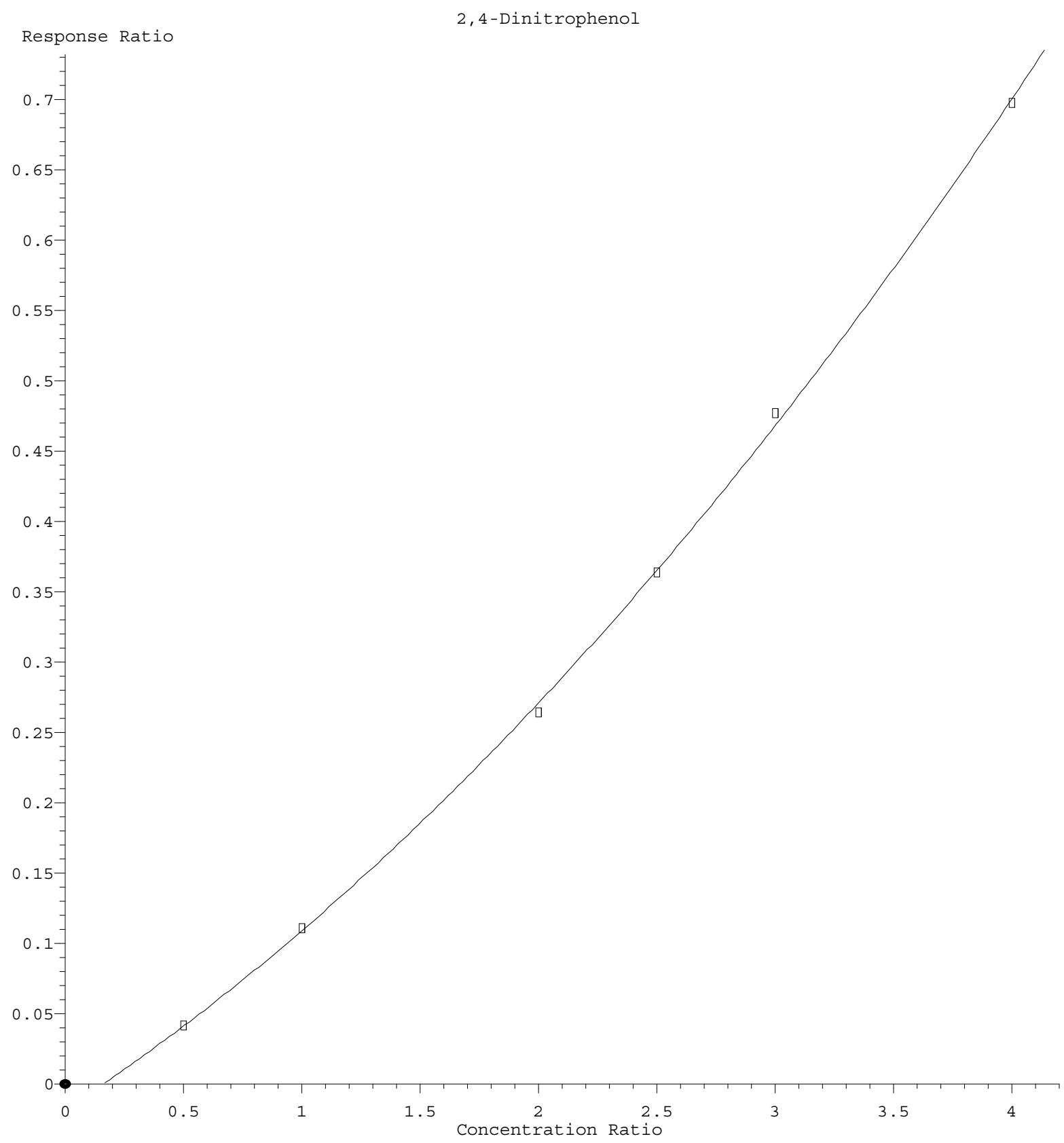

R = 1.757e-002 A*A + 1.093e-001 A - 1.786e-002
Coef of Det (r^2) = 0.999531 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM031325.M
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