Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 08 18:32:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050377.D 5 =BM050378.D 10 =BM050379.D 20 =BM050380.D 40 =BM050381.D 50 =BM050382.D 60 =BM050383.D 80 =BM0503
84.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.504	0.466	0.482	0.460	0.501	0.474	0.457	0.478	3.99
3)		Pyridine		1.249	1.197	1.256	1.228	1.336	1.279	1.236	1.254	3.52
4)		n-Nitrosodimet...			0.562	0.595	0.572	0.620	0.595	0.565	0.585	3.88
5)	S	2-Fluorophenol		1.126	1.079	1.149	1.152	1.258	1.202	1.168	1.162	4.89
6)		Aniline		1.784	1.702	1.844	1.878	2.042	1.987	1.921	1.880	6.20
7)	S	Phenol-d6		1.367	1.327	1.441	1.466	1.607	1.547	1.498	1.465	6.67
8)		2-Chlorophenol		1.135	1.105	1.219	1.217	1.341	1.301	1.258	1.225	6.89
9)		Benzaldehyde			0.944	0.985	0.897	0.837	0.694		0.871	13.03
10)	C	Phenol		1.460	1.412	1.516	1.508	1.666	1.598	1.535	1.528	5.51
11)		bis(2-Chloroet...		1.202	1.134	1.223	1.196	1.324	1.268	1.218	1.223	4.88
12)		1,3-Dichlorobe...		1.504	1.425	1.496	1.448	1.580	1.511	1.465	1.490	3.40
13)	C	1,4-Dichlorobe...		1.553	1.459	1.536	1.465	1.610	1.538	1.487	1.521	3.57
14)		1,2-Dichlorobe...		1.481	1.395	1.454	1.410	1.541	1.485	1.428	1.456	3.48
15)		Benzyl Alcohol			0.907	0.995	1.022	1.125	1.090	1.052	1.032	7.45
16)		2,2'-oxybis(1-...		1.835	1.741	1.818	1.752	1.907	1.821	1.741	1.802	3.41
17)		2-Methylphenol		0.922	0.898	0.980	0.990	1.089	1.048	1.008	0.991	6.71
18)		Hexachloroethane		0.518	0.501	0.532	0.520	0.574	0.556	0.543	0.535	4.66
19)	P	n-Nitroso-di-n...	0.790	0.805	0.808	0.888	0.911	1.005	0.968	0.924	0.887	9.01
20)		3+4-Methylphenols			1.170	1.296	1.325	1.458	1.393	1.338	1.330	7.29
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.493	0.479	0.501	0.491	0.534	0.513	0.489	0.500	3.69
23)	S	Nitrobenzene-d5		0.362	0.355	0.390	0.392	0.429	0.415	0.400	0.392	6.77
24)		Nitrobenzene		0.333	0.329	0.353	0.345	0.377	0.362	0.349	0.350	4.73
25)		Isophorone		0.571	0.574	0.634	0.640	0.702	0.679	0.652	0.636	7.73
26)	C	2-Nitrophenol		0.107	0.112	0.132	0.147	0.167	0.167	0.167	0.143	18.26
27)		2,4-Dimethylph...		0.295	0.275	0.301	0.299	0.329	0.317	0.308	0.303	5.63
28)		bis(2-Chloroet...		0.407	0.395	0.422	0.417	0.454	0.436	0.420	0.422	4.61
29)	C	2,4-Dichloroph...		0.277	0.279	0.311	0.312	0.344	0.334	0.325	0.312	8.26
30)		1,2,4-Trichlor...		0.370	0.349	0.369	0.362	0.397	0.385	0.378	0.373	4.21
31)		Naphthalene		1.033	0.975	1.024	0.988	1.071	1.029	0.992	1.016	3.26
32)		Benzoic acid			0.100	0.139	0.164	0.195	0.194	0.199	0.165	23.89
33)		4-Chloroaniline		0.398	0.397	0.427	0.429	0.465	0.453	0.437	0.429	6.00
34)	C	Hexachlorobuta...		0.222	0.209	0.222	0.221	0.244	0.239	0.235	0.228	5.37
35)		Caprolactam			0.064	0.081	0.087	0.096	0.093	0.090	0.085	13.87
36)	C	4-Chloro-3-met...		0.258	0.256	0.288	0.295	0.326	0.313	0.302	0.291	9.10
37)		2-Methylnaphth...		0.611	0.595	0.638	0.635	0.693	0.671	0.647	0.641	5.19
38)		1-Methylnaphth...		0.651	0.629	0.674	0.673	0.736	0.707	0.681	0.679	5.17

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.590	0.569	0.611	0.622	0.700	0.683	0.677	0.636	7.93
41)	P	Hexachlorocycl...		0.320	0.361	0.396	0.450	0.454	0.459	0.407	14.08
42)	S	2,4,6-Tribromo...	0.182	0.195	0.230	0.248	0.285	0.280	0.280	0.243	17.40
43)	C	2,4,6-Trichlor...	0.330	0.335	0.377	0.394	0.443	0.434	0.427	0.391	11.81
44)		2,4,5-Trichlor...	0.359	0.376	0.415	0.430	0.484	0.470	0.460	0.428	11.13
45)	S	2-Fluorobiphenyl	1.572	1.538	1.611	1.592	1.753	1.697	1.575	1.620	4.74
46)		1,1'-Biphenyl	1.464	1.419	1.479	1.441	1.586	1.527	1.471	1.484	3.79
47)		2-Chloronaphth...	1.164	1.126	1.187	1.150	1.267	1.217	1.171	1.183	3.93
48)		2-Nitroaniline	0.197	0.211	0.253	0.278	0.312	0.302	0.295	0.264	17.17
49)		Acenaphthylene	1.645	1.658	1.795	1.775	1.956	1.875	1.811	1.788	6.21
50)		Dimethylphthalate	1.323	1.285	1.368	1.351	1.506	1.432	1.373	1.377	5.29
51)		2,6-Dinitrotol...	0.196	0.224	0.263	0.273	0.308	0.297	0.289	0.264	15.41
52)	C	Acenaphthene	1.086	1.050	1.126	1.111	1.231	1.196	1.158	1.137	5.51
53)		3-Nitroaniline	0.204	0.231	0.278	0.294	0.330	0.319	0.311	0.281	16.81
54)	P	2,4-Dinitrophenol		0.074	0.097	0.117	0.140	0.147	0.150	0.121	25.40
55)		Dibenzofuran	1.747	1.674	1.756	1.709	1.880	1.784	1.711	1.751	3.84
56)	P	4-Nitrophenol		0.182	0.225	0.245	0.276	0.265	0.258	0.242	14.15
57)		2,4-Dinitrotol...	0.234	0.277	0.340	0.371	0.422	0.407	0.401	0.350	20.31
58)		Fluorene	1.348	1.328	1.428	1.419	1.582	1.522	1.470	1.443	6.29
59)		2,3,4,6-Tetrac...	0.299	0.306	0.355	0.365	0.405	0.397	0.392	0.360	11.92
60)		Diethylphthalate	1.217	1.210	1.319	1.309	1.454	1.379	1.320	1.315	6.51
61)		4-Chlorophenyl...	0.687	0.673	0.733	0.747	0.839	0.811	0.790	0.754	8.28
62)		4-Nitroaniline	0.192	0.228	0.284	0.311	0.350	0.331	0.320	0.288	20.10
63)		Azobenzene	1.085	1.116	1.234	1.208	1.335	1.272	1.204	1.208	7.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.057	0.077	0.094	0.109	0.113	0.117	0.095	24.90
66)	c	n-Nitrosodiphe...	0.572	0.577	0.620	0.623	0.678	0.658	0.654	0.626	6.49
67)		4-Bromophenyl-...	0.196	0.194	0.211	0.218	0.242	0.240	0.241	0.220	9.61
68)		Hexachlorobenzene	0.239	0.233	0.253	0.256	0.283	0.279	0.278	0.260	7.78
69)		Atrazine	0.166	0.175	0.199	0.211	0.232	0.228	0.227	0.206	12.95
70)	C	Pentachlorophenol		0.122	0.145	0.161	0.181	0.180	0.183	0.162	15.23
71)		Phenanthrene	1.119	1.070	1.119	1.101	1.206	1.163	1.143	1.132	3.91
72)		Anthracene	1.028	1.017	1.109	1.117	1.233	1.204	1.179	1.127	7.44
73)		Carbazole	0.939	0.944	1.009	1.010	1.108	1.073	1.052	1.019	6.23
74)		Di-n-butylphth...	0.954	0.961	1.091	1.140	1.252	1.216	1.196	1.116	10.76
75)	C	Fluoranthene	1.088	1.079	1.182	1.233	1.366	1.339	1.327	1.230	9.67
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.370	0.521	0.553	0.601	0.552	0.464	0.510	16.08
78)		Pyrene	1.198	1.177	1.260	1.260	1.388	1.366	1.316	1.281	6.26
79)	S	Terphenyl-d14	1.095	1.110	1.225	1.258	1.298	1.094	0.878	1.137	12.43
80)		Butylbenzylpht...	0.317	0.334	0.401	0.441	0.492	0.491	0.479	0.422	17.39
81)		Benzo(a)anthra...	1.204	1.202	1.282	1.282	1.428	1.379	1.345	1.303	6.57
82)		3,3'-Dichlorob...		0.351	0.406	0.429	0.498	0.487	0.465	0.439	12.66
83)		Chrysene	1.162	1.153	1.200	1.209	1.327	1.303	1.249	1.229	5.45
84)		Bis(2-ethylhex...	0.499	0.546	0.658	0.705	0.780	0.763	0.742	0.670	16.33
85)	c	Di-n-octyl pht...		0.742	0.931	1.058	1.193	1.194	1.183	1.050	17.44

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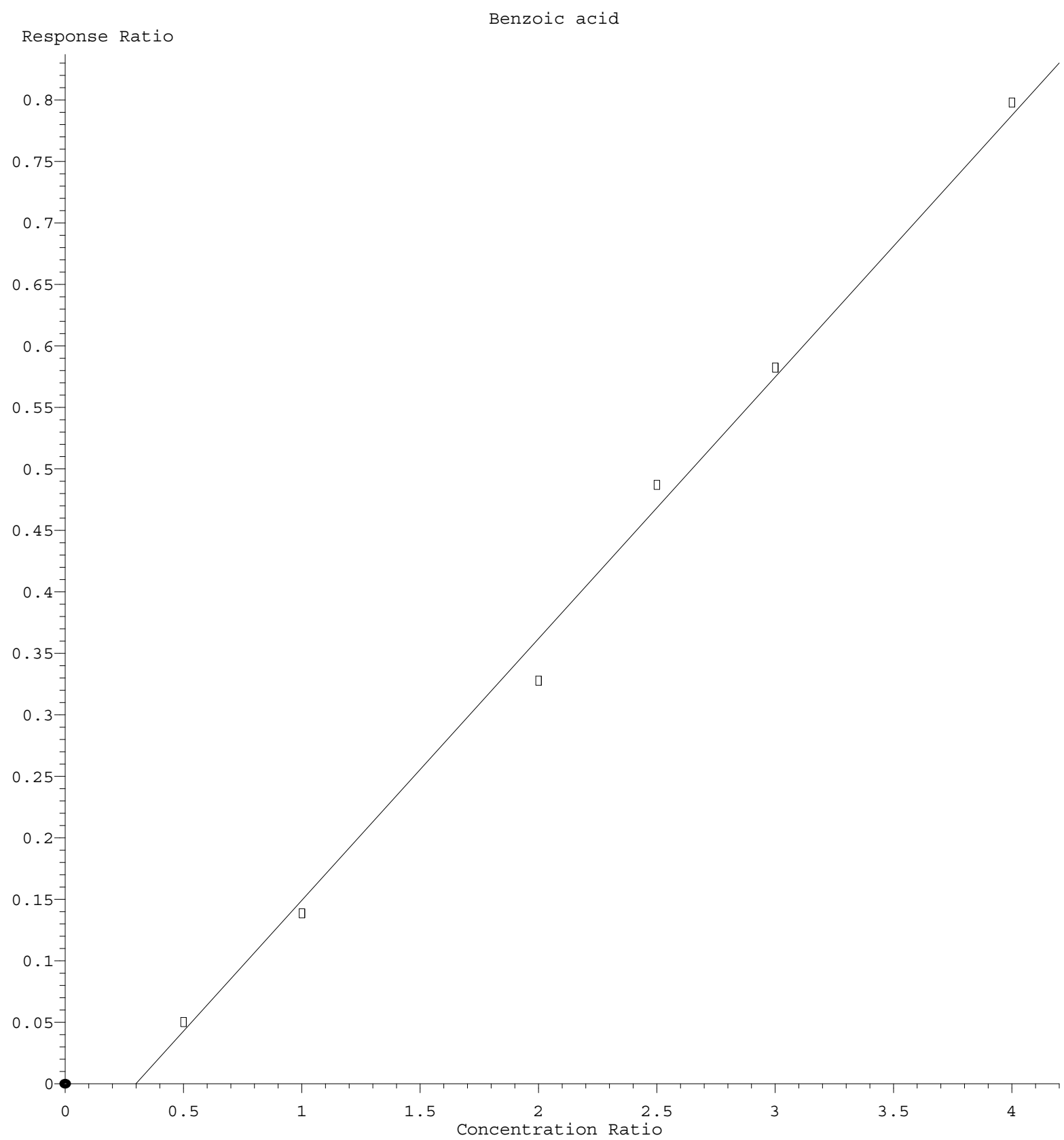
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.208	1.238	1.374	1.415	1.603	1.564	1.551	1.422	11.17
88)		Benzo(b)fluora...	1.090	1.075	1.177	1.230	1.368	1.344	1.327	1.230	9.83
89)		Benzo(k)fluora...	1.105	1.138	1.247	1.263	1.444	1.387	1.350	1.276	9.86
90)	C	Benzo(a)pyrene	0.962	0.985	1.099	1.156	1.314	1.281	1.264	1.152	12.41
91)		Dibenzo(a,h)an...	1.022	1.035	1.159	1.193	1.352	1.320	1.301	1.198	11.23
92)		Benzo(g,h,i)pe...	0.992	1.001	1.097	1.121	1.263	1.232	1.216	1.132	9.73

(#) = Out of Range



Response = 2.127e-001 * Amt - 6.353e-002
Coef of Det (r^2) = 0.995611 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM070925.M
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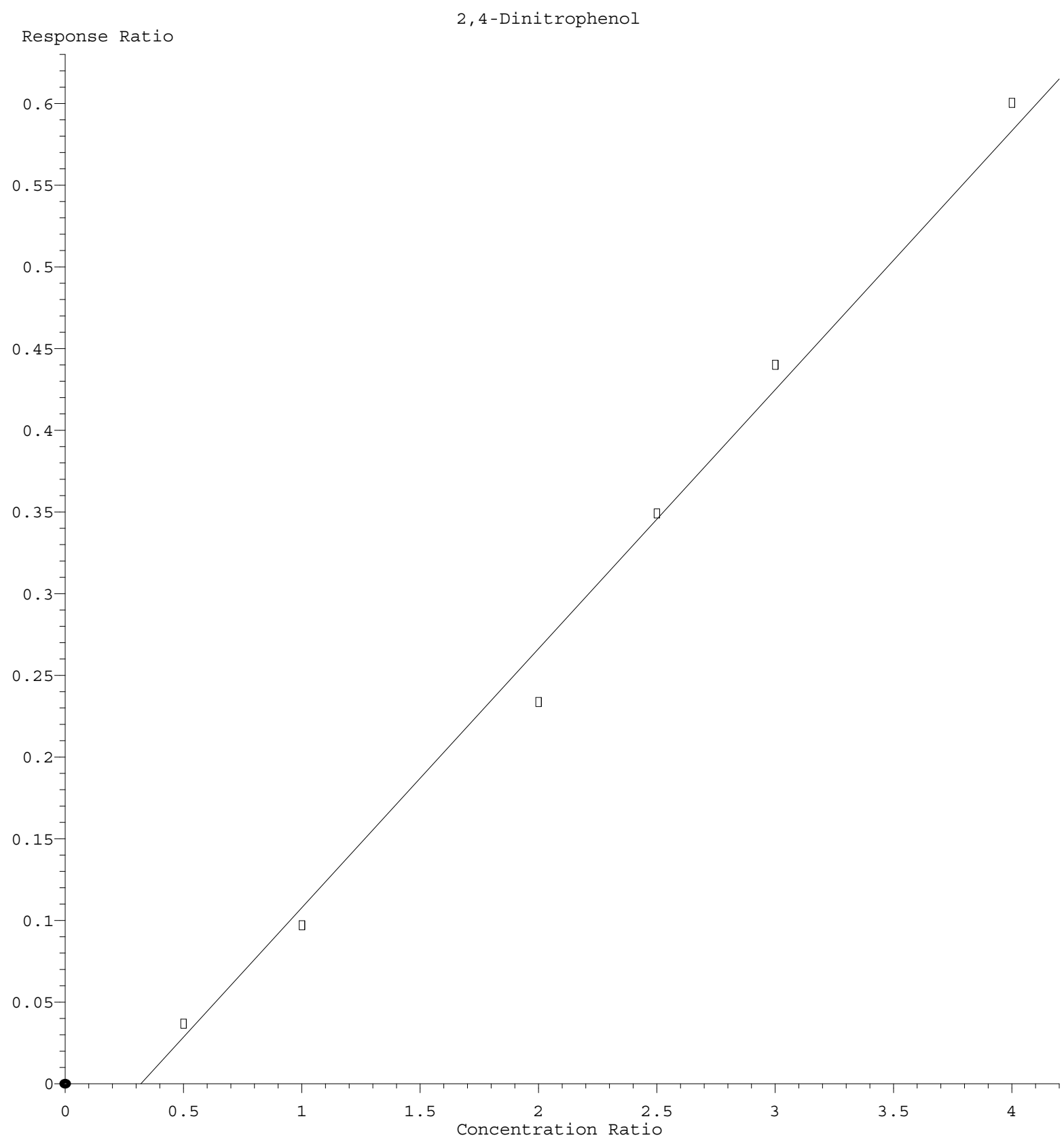

Response = 1.586e-001 * Amt - 5.080e-002
Coef of Det (r^2) = 0.992540 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM070925.M
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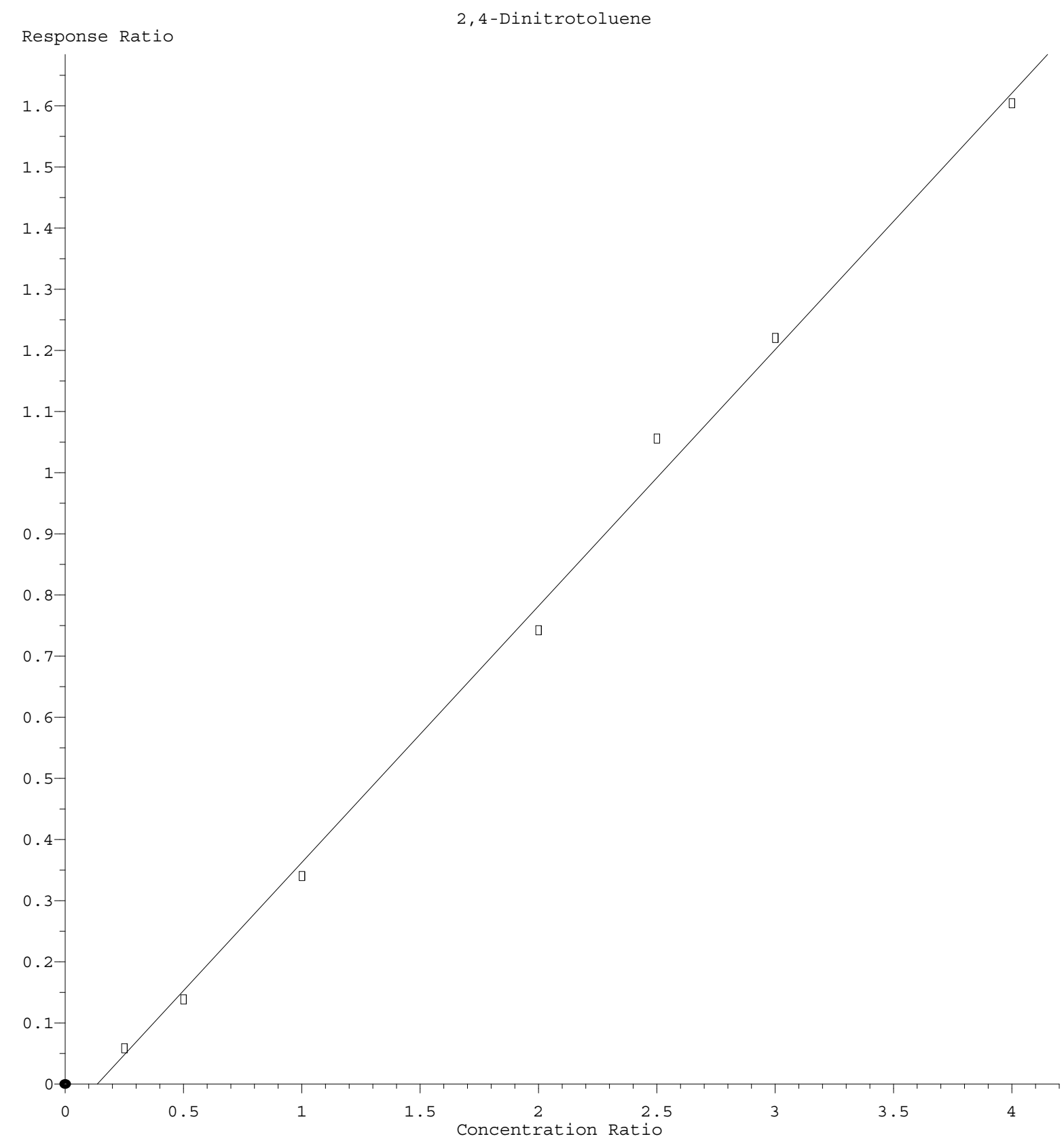
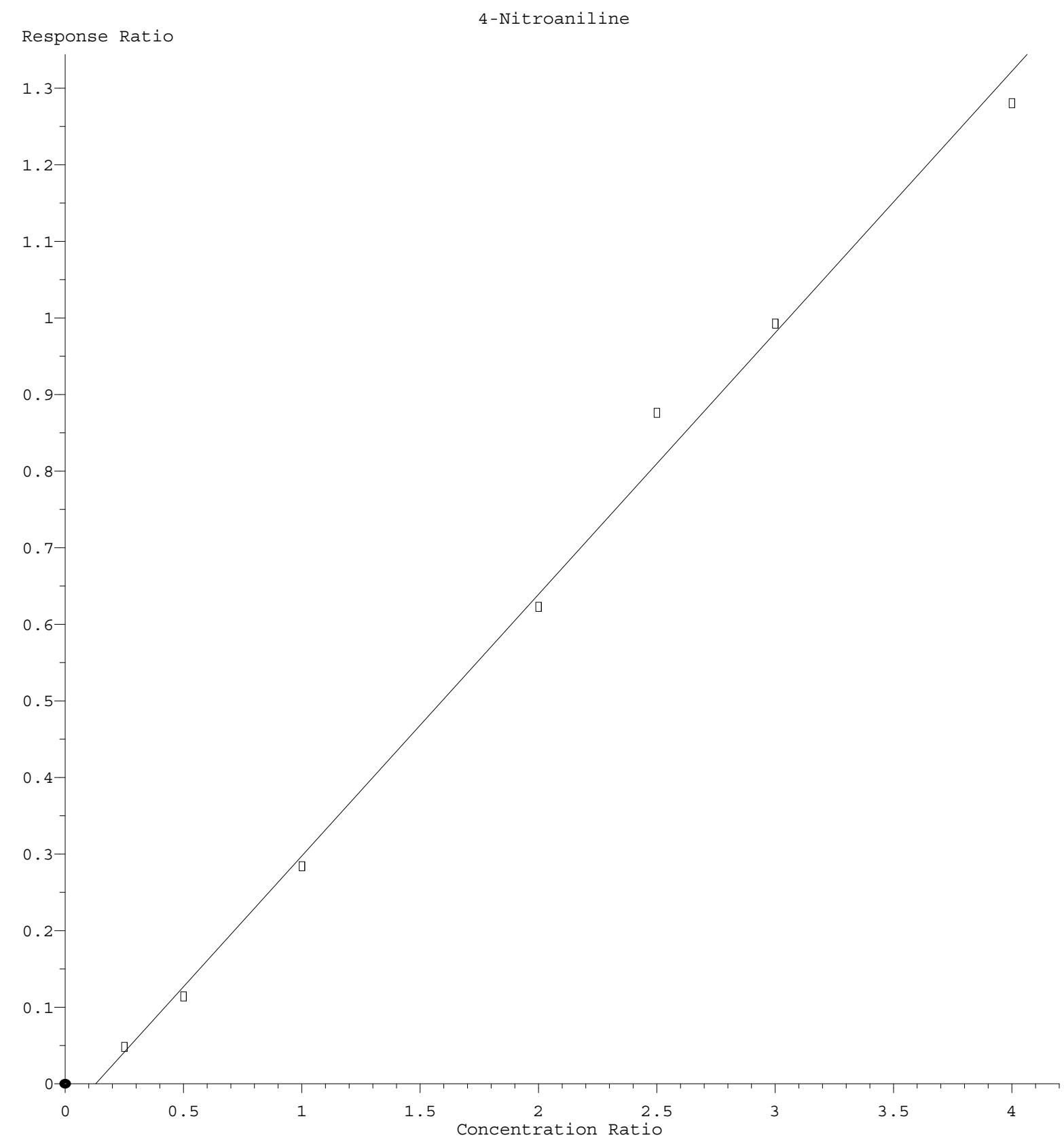


Response = 4.196e-001 * Amt - 5.715e-002
Coef of Det (r^2) = 0.996987 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM070925.M
Calibration Table Last Updated: Tue Jul 08 18:32:25 2025



Response = 3.416e-001 * Amt - 4.419e-002
Coef of Det (r^2) = 0.996508 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM070925.M
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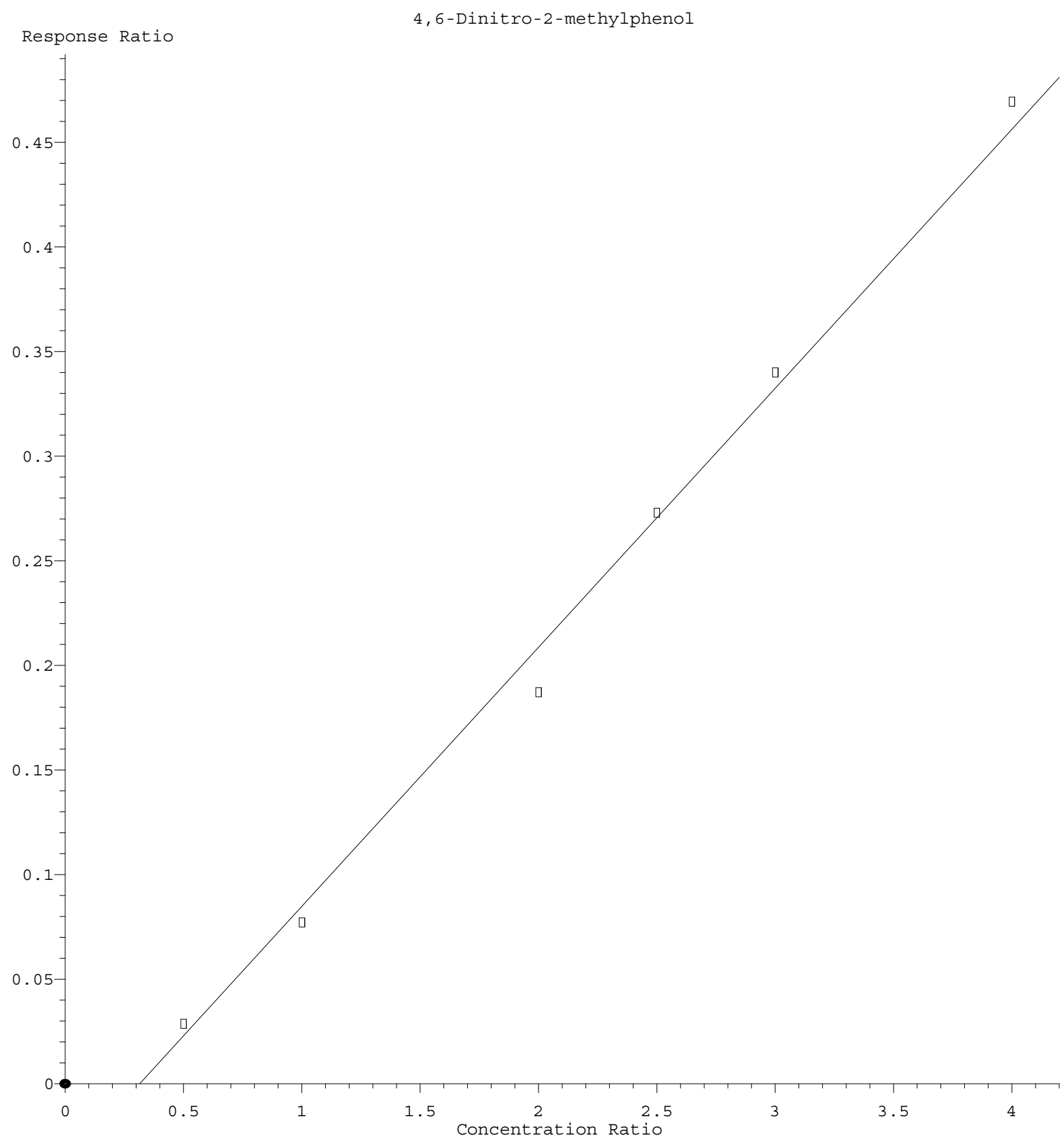

Response = 1.238e-001 * Amt - 3.901e-002
Coef of Det (r^2) = 0.994498 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM070925.M
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