Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG061223.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jun 13 02:00:06 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG057679.D 5 =BG057680.D 10 =BG057681.D 20 =BG057682.D 40 =BG057683.D 50 =BG057684.D 60 =BG057685.D 80 =BG0576
86.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.644	0.654	0.671	0.599	0.571	0.572	0.539	0.607	8.19
3)		Pyridine		1.600	1.750	1.837	1.750	1.676	1.681	1.621	1.702	4.85
4)		n-Nitrosodimet...		0.817	0.832	0.884	0.815	0.816	0.819	0.785	0.824	3.63
5)	S	2-Fluorophenol		1.295	1.324	1.368	1.285	1.232	1.242	1.181	1.275	4.89
6)		Aniline		2.324	2.432	2.459	2.284	2.243	2.213	2.126	2.297	5.17
7)	S	Phenol-d6		1.931	1.947	2.008	1.834	1.771	1.741	1.682	1.845	6.54
8)		2-Chlorophenol		1.214	1.302	1.375	1.245	1.199	1.206	1.149	1.242	6.05
9)		Benzaldehyde		1.304	1.329	1.278	1.099	0.994	0.920	0.837	1.109	17.98
10)	C	Phenol		1.873	1.908	1.977	1.800	1.743	1.725	1.650	1.811	6.32
11)		bis(2-Chloroet...		1.437	1.400	1.456	1.342	1.332	1.337	1.258	1.366	5.05
12)		1,3-Dichlorobe...		1.430	1.464	1.468	1.316	1.264	1.297	1.216	1.351	7.57
13)	C	1,4-Dichlorobe...		1.398	1.474	1.428	1.332	1.291	1.286	1.227	1.348	6.54
14)		1,2-Dichlorobe...		1.403	1.440	1.426	1.268	1.228	1.227	1.174	1.309	8.41
15)		Benzyl Alcohol		1.321	1.357	1.469	1.389	1.361	1.357	1.318	1.367	3.74
16)		2,2'-oxybis(1-...		3.090	3.203	3.220	2.919	2.852	2.829	2.732	2.978	6.48
17)		2-Methylphenol		1.316	1.348	1.419	1.313	1.266	1.261	1.198	1.303	5.41
18)		Hexachloroethane		0.439	0.460	0.480	0.465	0.449	0.469	0.449	0.459	3.01
19)	P	n-Nitroso-di-n...	1.274	1.167	1.265	1.332	1.220	1.185	1.161	1.130	1.217	5.66
20)		3+4-Methylphenols		1.733	1.822	1.931	1.777	1.725	1.701	1.665	1.765	5.04
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.574	0.579	0.587	0.551	0.533	0.560	0.536	0.560	3.76
23)	S	Nitrobenzene-d5			0.233	0.290	0.324	0.347	0.382	0.382	0.326	17.72
24)		Nitrobenzene		0.224	0.269	0.330	0.358	0.372	0.401	0.400	0.336	19.98
25)		Isophorone		0.841	0.867	0.880	0.837	0.835	0.855	0.842	0.851	1.99
26)	C	2-Nitrophenol		0.055	0.057	0.079	0.091	0.109	0.124		0.086	32.60#
27)		2,4-Dimethylph...		0.310	0.312	0.312	0.304	0.304	0.318	0.314	0.311	1.66
28)		bis(2-Chloroet...		0.426	0.450	0.470	0.450	0.447	0.470	0.454	0.452	3.33
29)	C	2,4-Dichloroph...		0.250	0.272	0.290	0.290	0.298	0.308	0.305	0.288	7.02
30)		1,2,4-Trichlor...		0.354	0.357	0.361	0.338	0.335	0.356	0.340	0.349	3.08
31)		Naphthalene		1.127	1.114	1.106	1.028	1.016	1.053	1.022	1.067	4.48
32)		Benzoic acid			0.083	0.126	0.148	0.171	0.192	0.208	0.155	29.60
33)		4-Chloroaniline		0.464	0.480	0.494	0.463	0.462	0.476	0.465	0.472	2.56
34)	C	Hexachlorobuta...		0.231	0.231	0.231	0.216	0.218	0.225	0.219	0.224	2.98
35)		Caprolactam		0.073	0.086	0.103	0.101	0.104	0.108	0.108	0.098	13.76
36)	C	4-Chloro-3-met...		0.352	0.359	0.386	0.374	0.375	0.386	0.377	0.373	3.52
37)		2-Methylnaphth...		0.770	0.788	0.805	0.750	0.734	0.758	0.732	0.762	3.56
38)		1-Methylnaphth...		0.730	0.760	0.751	0.702	0.684	0.714	0.686	0.718	4.20

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.642	0.597	0.603	0.569	0.571	0.598	0.559	0.591	4.75
41)	P	Hexachlorocycl...	0.237	0.249	0.284	0.287	0.296	0.326	0.316	0.285	11.49
42)	S	2,4,6-Tribromo...	0.189	0.220	0.252	0.248	0.260	0.280	0.258	0.244	12.29
43)	C	2,4,6-Trichlor...	0.314	0.331	0.369	0.368	0.380	0.416	0.393	0.367	9.56
44)		2,4,5-Trichlor...	0.350	0.415	0.457	0.436	0.457	0.489	0.462	0.438	10.30
45)	S	2-Fluorobiphenyl	1.532	1.476	1.456	1.308	1.305	1.353	1.235	1.381	7.87
46)		1,1'-Biphenyl	1.544	1.464	1.458	1.350	1.349	1.419	1.314	1.414	5.76
47)		2-Chloronaphth...	1.159	1.119	1.099	1.035	1.032	1.089	1.016	1.078	4.87
48)		2-Nitroaniline	0.148	0.175	0.243	0.292	0.326	0.368	0.370	0.275	32.46
49)		Acenaphthylene	1.931	1.888	1.889	1.732	1.742	1.821	1.687	1.813	5.17
50)		Dimethylphthalate	1.493	1.514	1.557	1.442	1.436	1.500	1.392	1.476	3.77
51)		2,6-Dinitrotol...	0.101	0.143	0.196	0.231	0.253	0.282	0.274	0.211	32.47
52)	C	Acenaphthene	1.127	1.128	1.110	1.053	1.063	1.113	1.042	1.091	3.39
53)		3-Nitroaniline	0.111	0.171	0.233	0.262	0.283	0.309	0.295	0.238	30.48
54)	P	2,4-Dinitrophenol		0.048	0.059	0.069	0.086	0.099	0.106	0.078	29.64
55)		Dibenzofuran	1.964	1.928	1.906	1.734	1.720	1.803	1.638	1.813	6.76
56)	P	4-Nitrophenol		0.134	0.187	0.209	0.224	0.248	0.240	0.207	20.22
57)		2,4-Dinitrotol...	0.122	0.175	0.239	0.290	0.327	0.370	0.367	0.270	35.48
58)		Fluorene	1.554	1.530	1.522	1.358	1.339	1.392	1.271	1.424	7.78
59)		2,3,4,6-Tetrac...	0.266	0.318	0.367	0.359	0.374	0.395	0.377	0.351	12.59
60)		Diethylphthalate	1.499	1.575	1.606	1.479	1.485	1.549	1.426	1.517	4.12
61)		4-Chlorophenyl...	0.825	0.820	0.819	0.732	0.726	0.766	0.693	0.769	6.99
62)		4-Nitroaniline	0.152	0.193	0.257	0.275	0.286	0.313	0.300	0.254	23.47
63)		Azobenzene	1.686	1.664	1.690	1.518	1.516	1.596	1.468	1.591	5.75
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.032	0.042	0.052	0.060	0.069	0.073	0.055	28.90
66)	c	n-Nitrosodiphe...	0.553	0.564	0.551	0.515	0.507	0.524	0.506	0.531	4.55
67)		4-Bromophenyl-...	0.210	0.218	0.221	0.209	0.205	0.212	0.206	0.212	2.91
68)		Hexachlorobenzene	0.216	0.216	0.220	0.207	0.204	0.214	0.206	0.212	2.96
69)		Atrazine	0.178	0.190	0.194	0.187	0.179	0.184	0.177	0.184	3.60
70)	C	Pentachlorophenol	0.095	0.115	0.139	0.145	0.150	0.161	0.157	0.137	17.42
71)		Phenanthrene	1.030	1.046	1.045	0.949	0.920	0.948	0.903	0.977	6.25
72)		Anthracene	1.055	1.058	1.056	0.963	0.946	0.975	0.924	0.997	5.81
73)		Carbazole	0.960	0.984	0.991	0.909	0.881	0.905	0.853	0.926	5.74
74)		Di-n-butylphth...	1.043	1.123	1.184	1.113	1.089	1.129	1.062	1.106	4.26
75)	C	Fluoranthene	1.239	1.269	1.306	1.175	1.137	1.155	1.084	1.195	6.61
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.532	0.495	0.487	0.559	0.501	0.507	0.473	0.508	5.70
78)		Pyrene	1.476	1.459	1.489	1.396	1.352	1.406	1.330	1.416	4.36
79)	S	Terphenyl-d14	1.171	1.167	1.172	1.042	1.025	1.033	0.970	1.083	7.84
80)		Butylbenzylpht...	0.363	0.432	0.504	0.527	0.532	0.565	0.546	0.495	14.61
81)		Benzo(a)anthra...	1.473	1.435	1.458	1.348	1.327	1.379	1.306	1.389	4.78
82)		3,3'-Dichlorob...	0.429	0.451	0.493	0.469	0.459	0.473	0.446	0.460	4.49
83)		Chrysene	1.396	1.348	1.372	1.280	1.262	1.317	1.250	1.318	4.29
84)		Bis(2-ethylhex...	0.648	0.728	0.810	0.774	0.772	0.803	0.771	0.758	7.32
85)	c	Di-n-octyl pht...	0.974	1.114	1.322	1.338	1.366	1.441	1.408	1.280	13.37

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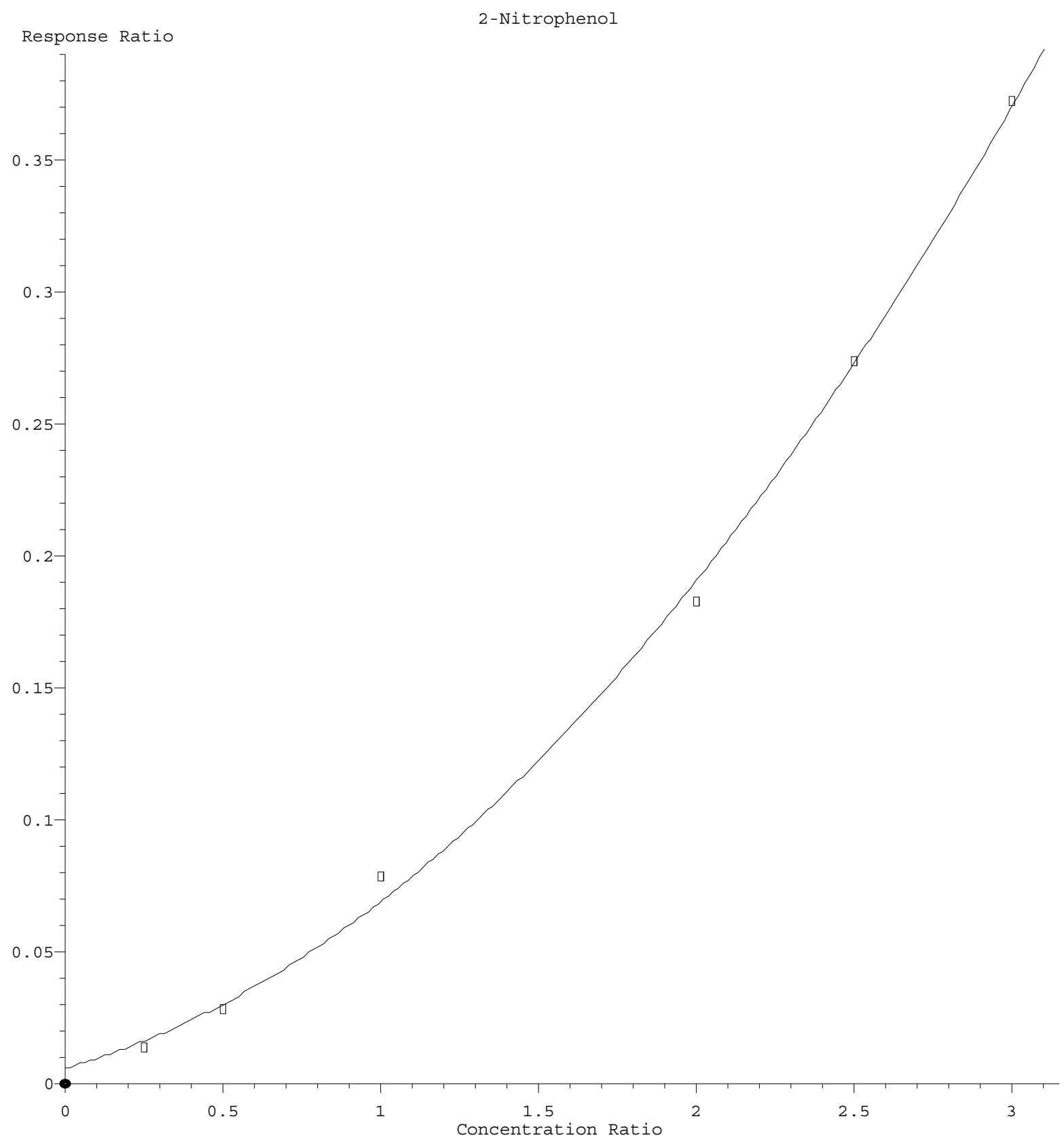
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.254	1.293	1.349	1.261	1.291	1.330	1.289	1.295	2.63
88)		Benzo(b)fluora...	1.077	1.107	1.135	1.042	1.091	1.099	1.069	1.088	2.73
89)		Benzo(k)fluora...	1.126	1.139	1.182	1.089	1.065	1.106	1.057	1.109	3.96
90)	C	Benzo(a)pyrene	1.064	1.085	1.116	1.039	1.056	1.082	1.045	1.069	2.49
91)		Dibenzo(a,h)an...	1.084	1.085	1.128	1.045	1.069	1.095	1.056	1.080	2.54
92)		Benzo(g,h,i)pe...	1.028	1.076	1.106	1.040	1.058	1.097	1.061	1.067	2.67

(#) = Out of Range



R = 2.912e-002 A*A + 3.411e-002 A + 5.837e-003
Coef of Det (r^2) = 0.998407 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG061223.M
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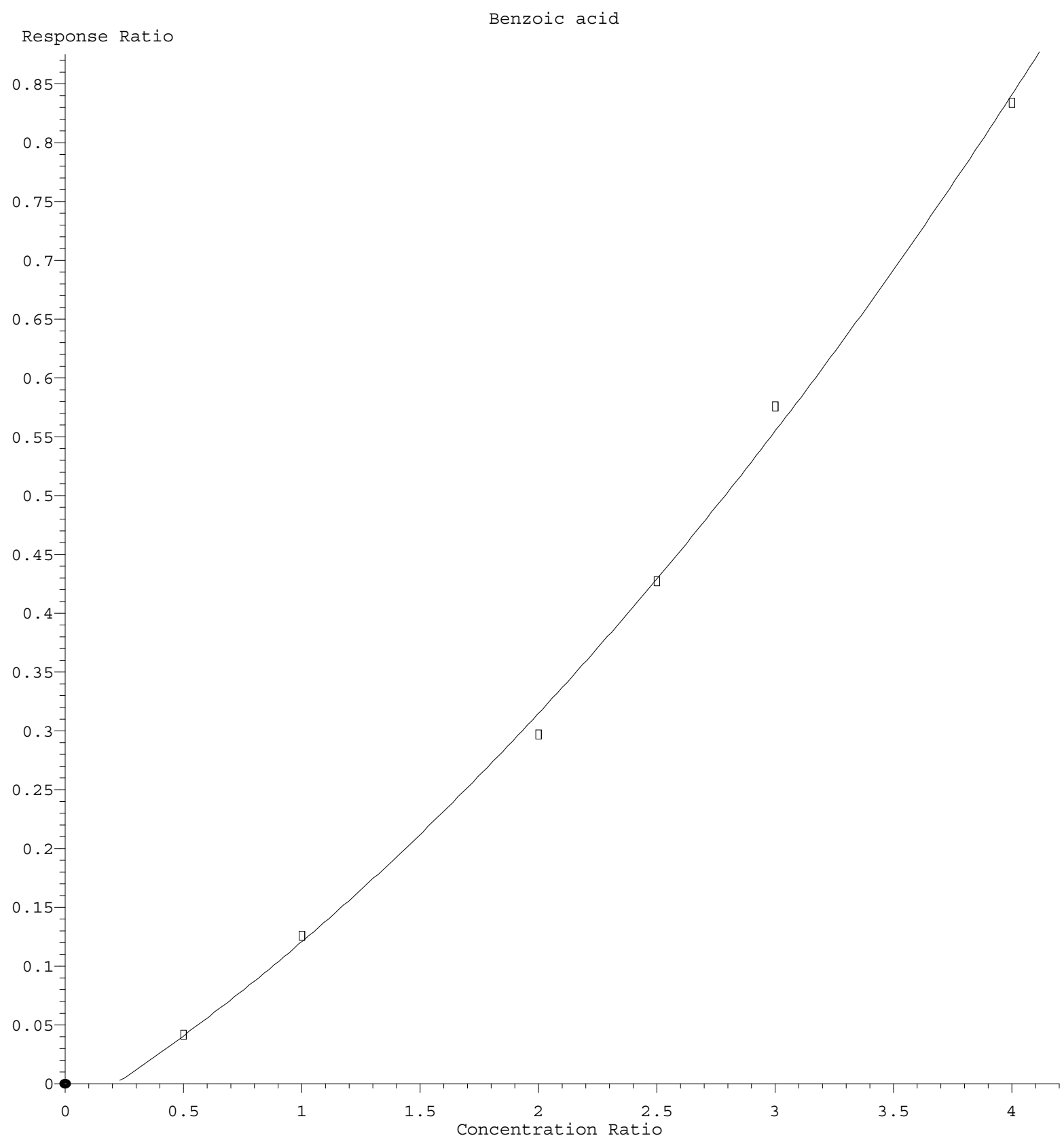

R = 2.291e-002 A*A + 1.254e-001 A - 2.757e-002
Coef of Det (r^2) = 0.998061 Curve Fit: Quadratic
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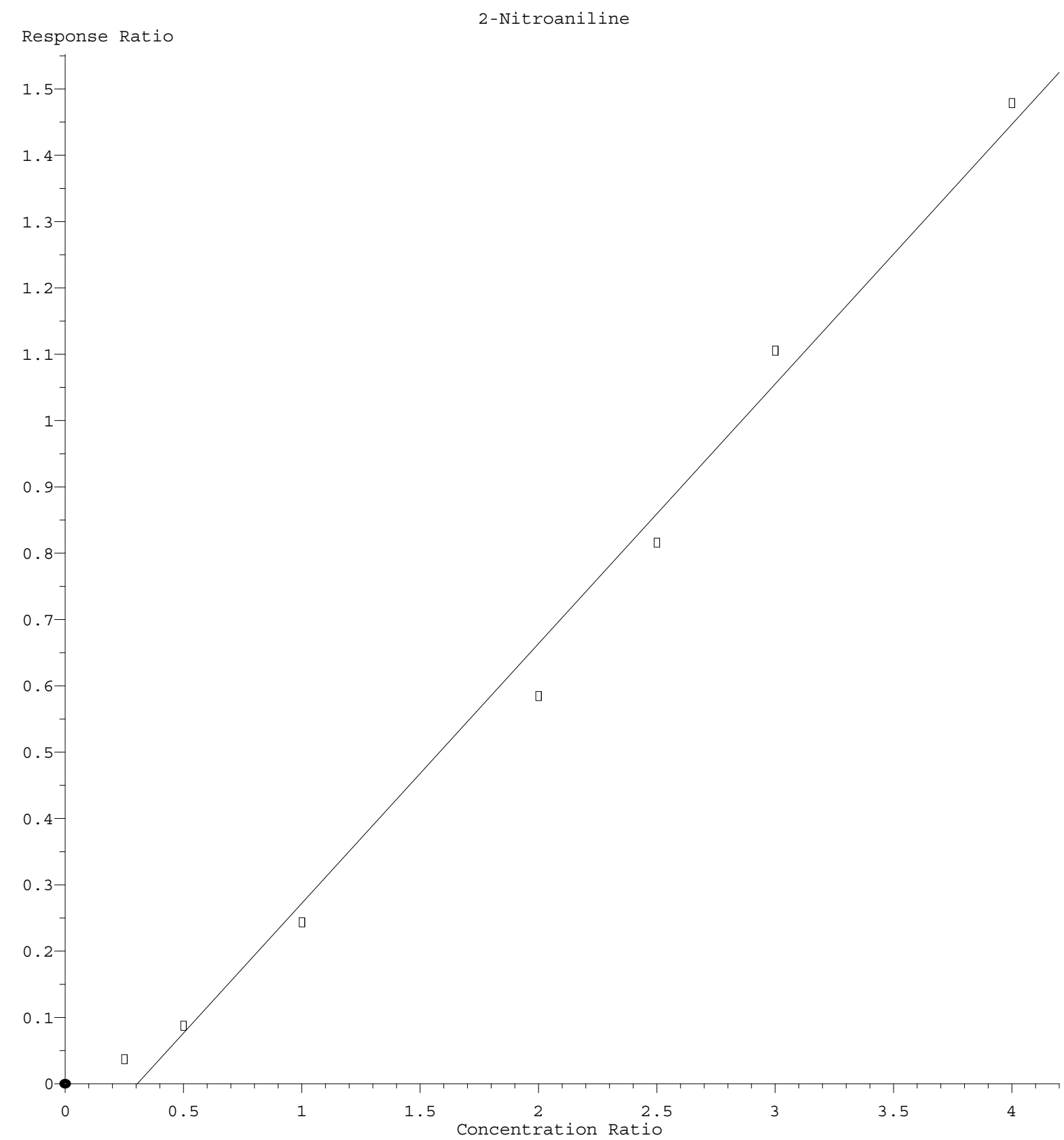

Response = 3.917e-001 * Amt - 1.196e-001
Coef of Det (r^2) = 0.990970 Curve Fit: Linear
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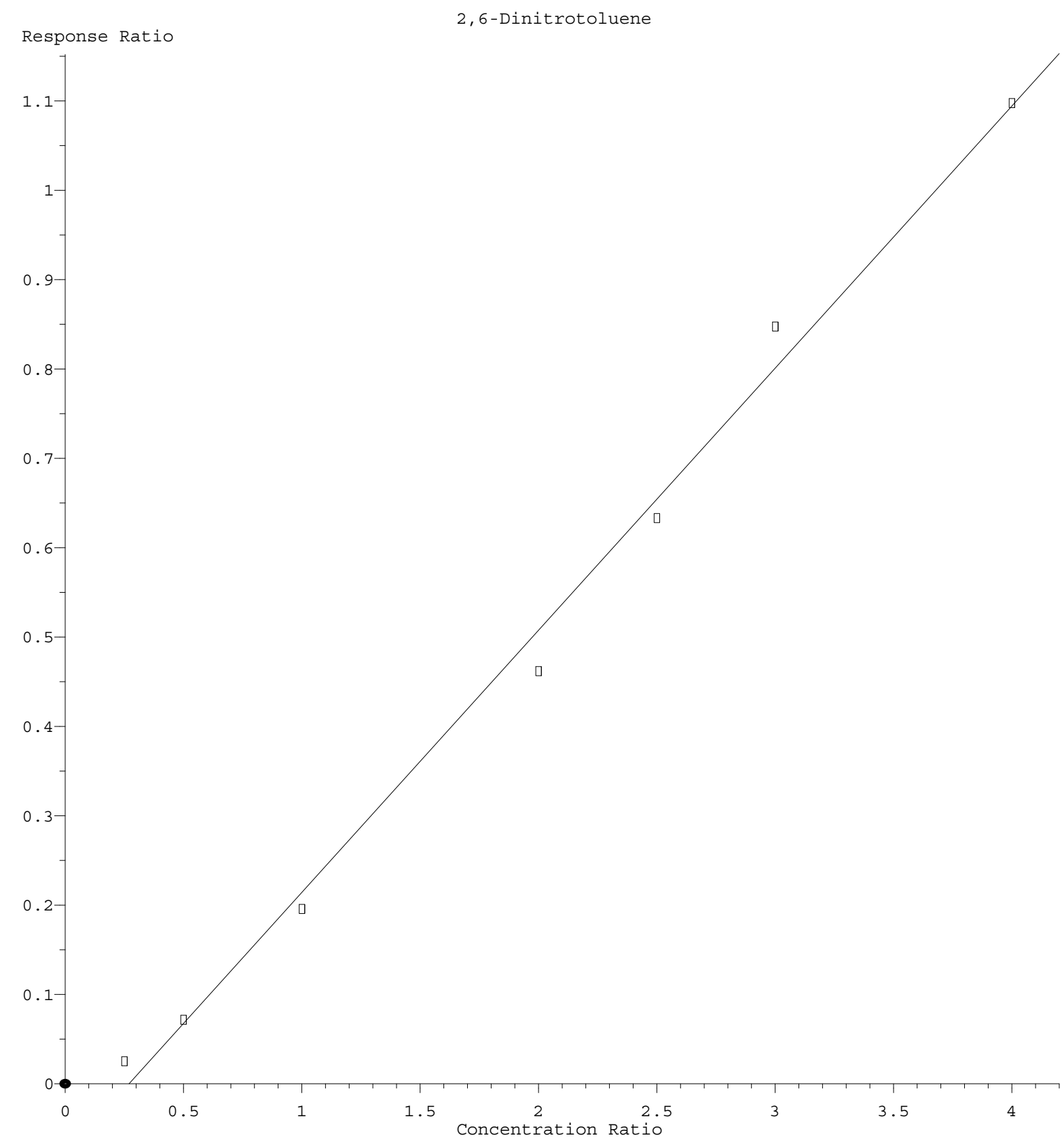

Response = 2.934e-001 * Amt - 7.937e-002
Coef of Det (r^2) = 0.993922 Curve Fit: Linear
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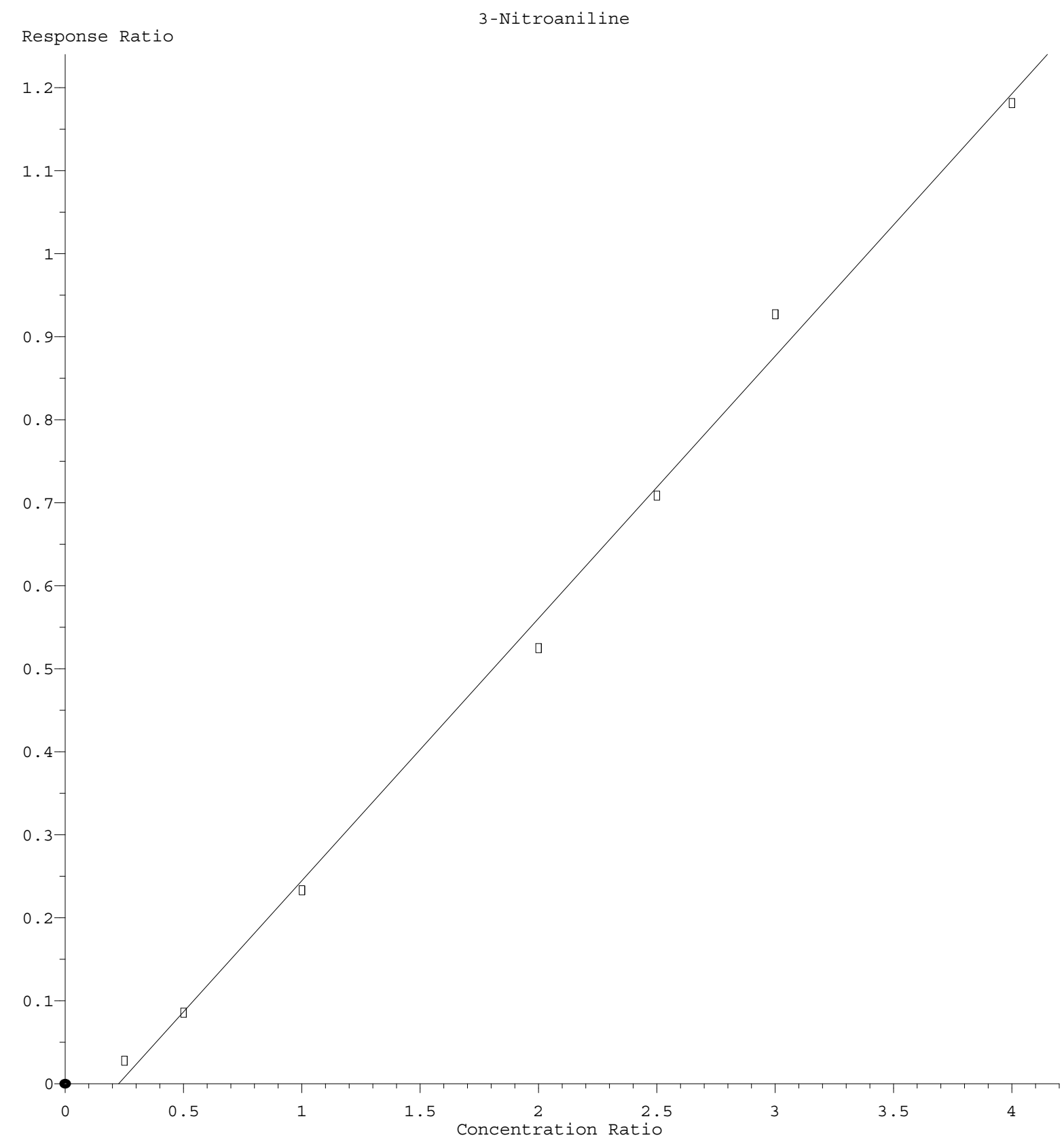
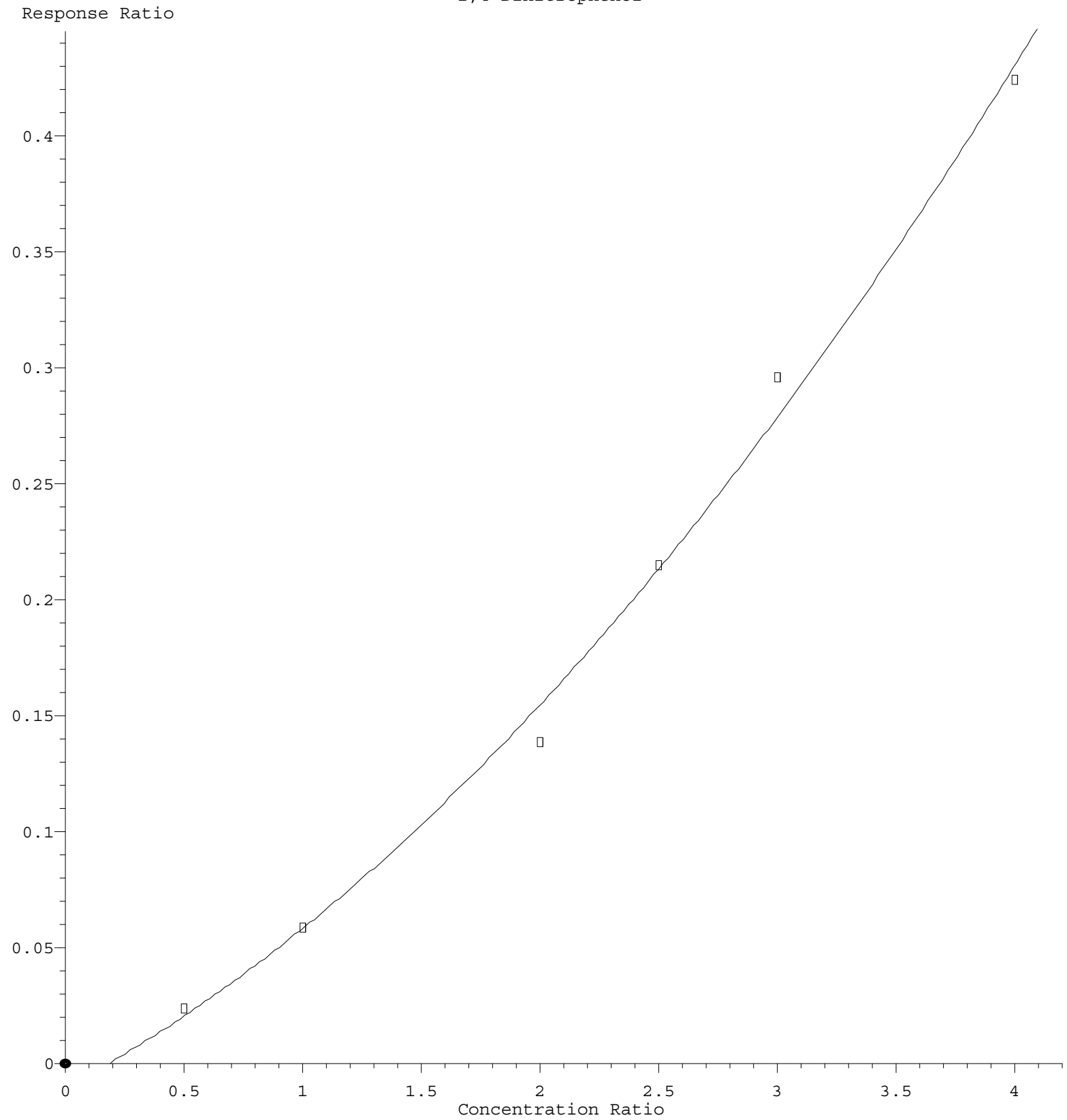


Response = 3.161e-001 * Amt - 7.137e-002
Coef of Det (r^2) = 0.996012 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG061223.M
Calibration Table Last Updated: Tue Jun 13 02:00:06 2023

2,4-Dinitrophenol



R = 1.383e-002 A*A + 5.489e-002 A - 1.042e-002
Coef of Det (r^2) = 0.994691 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG061223.M
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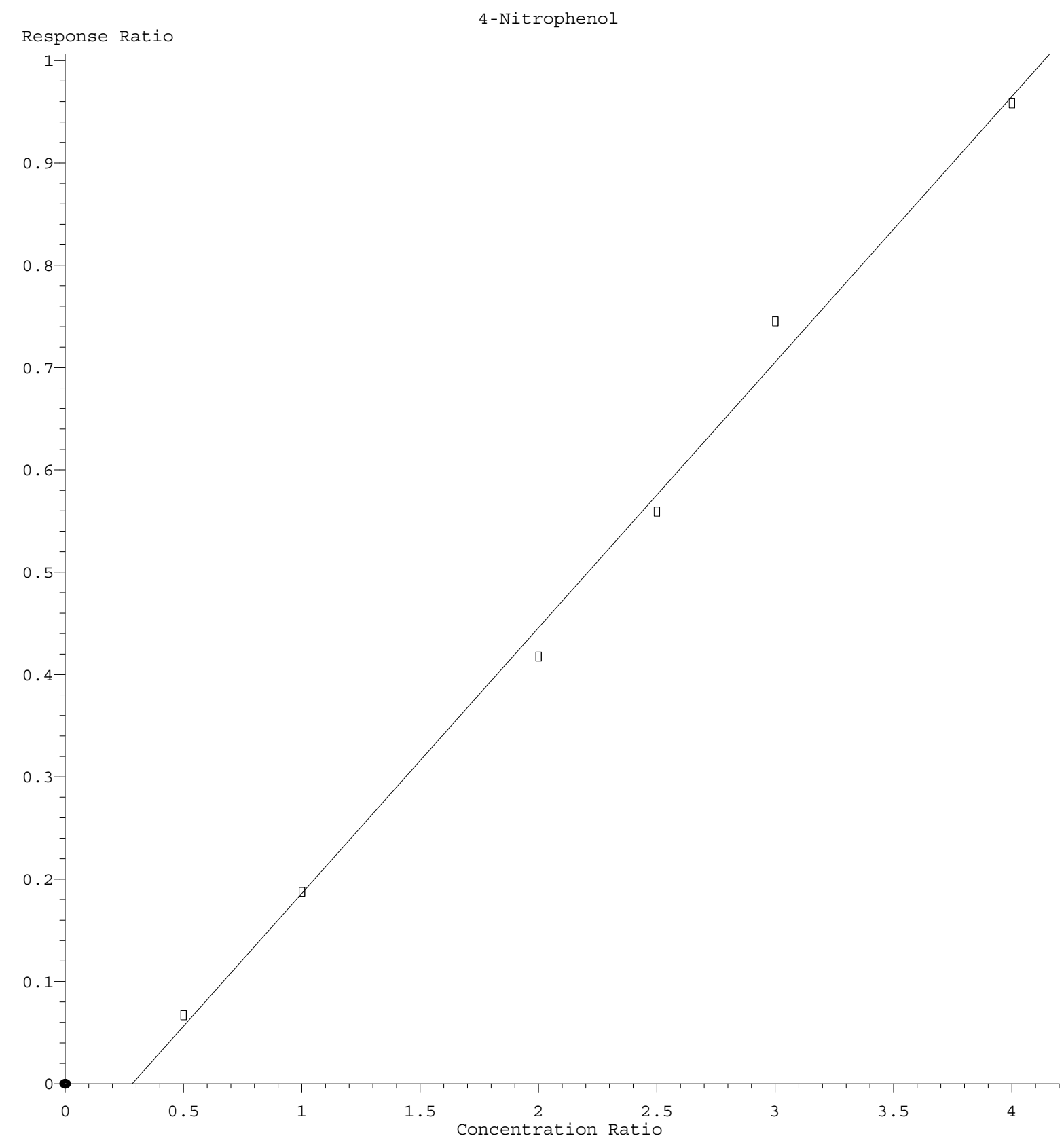

Response = 2.597e-001 * Amt - 7.362e-002
Coef of Det (r^2) = 0.995034 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG061223.M
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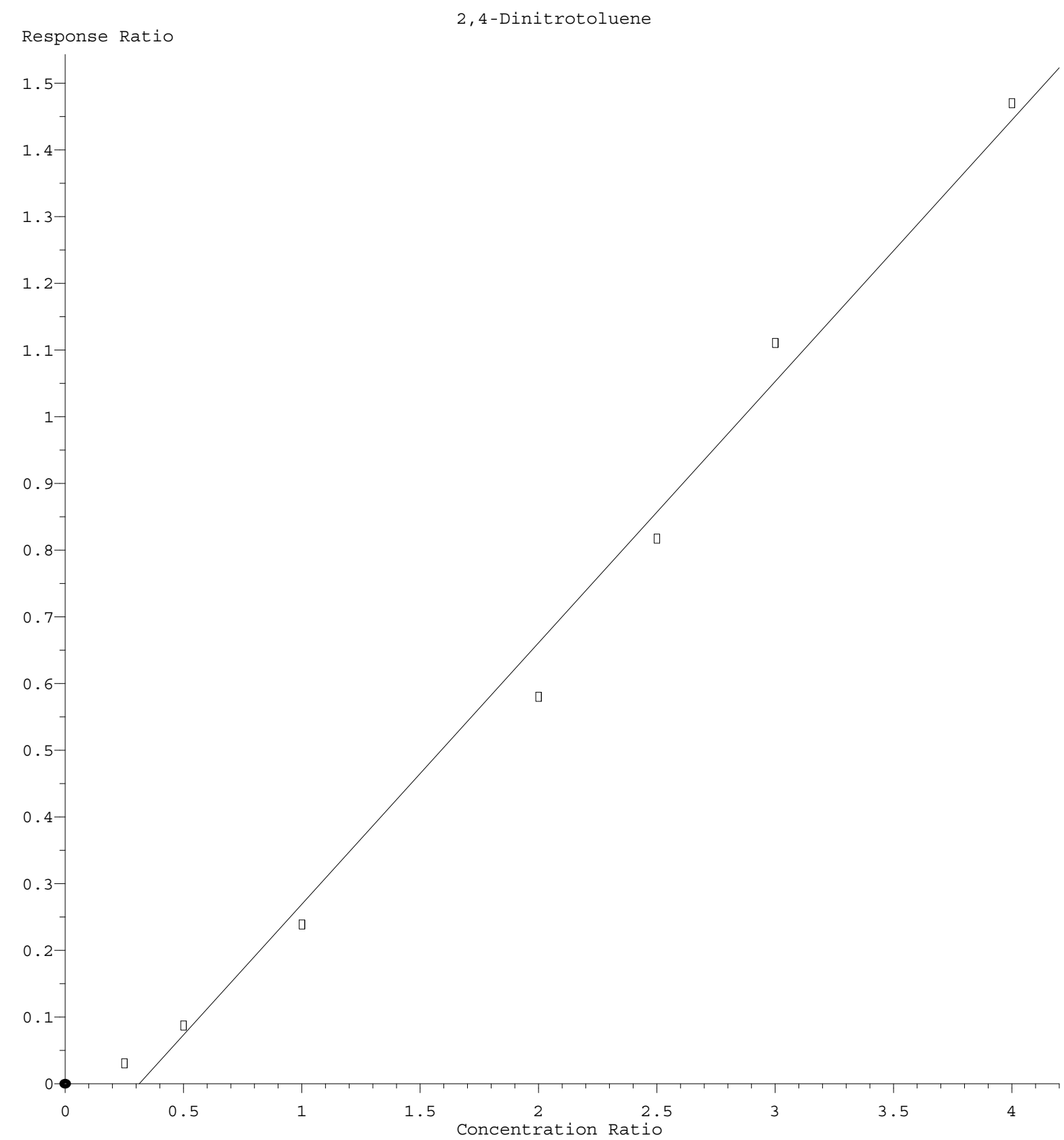

Response = 3.919e-001 * Amt - 1.227e-001
Coef of Det (r^2) = 0.990859 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG061223.M
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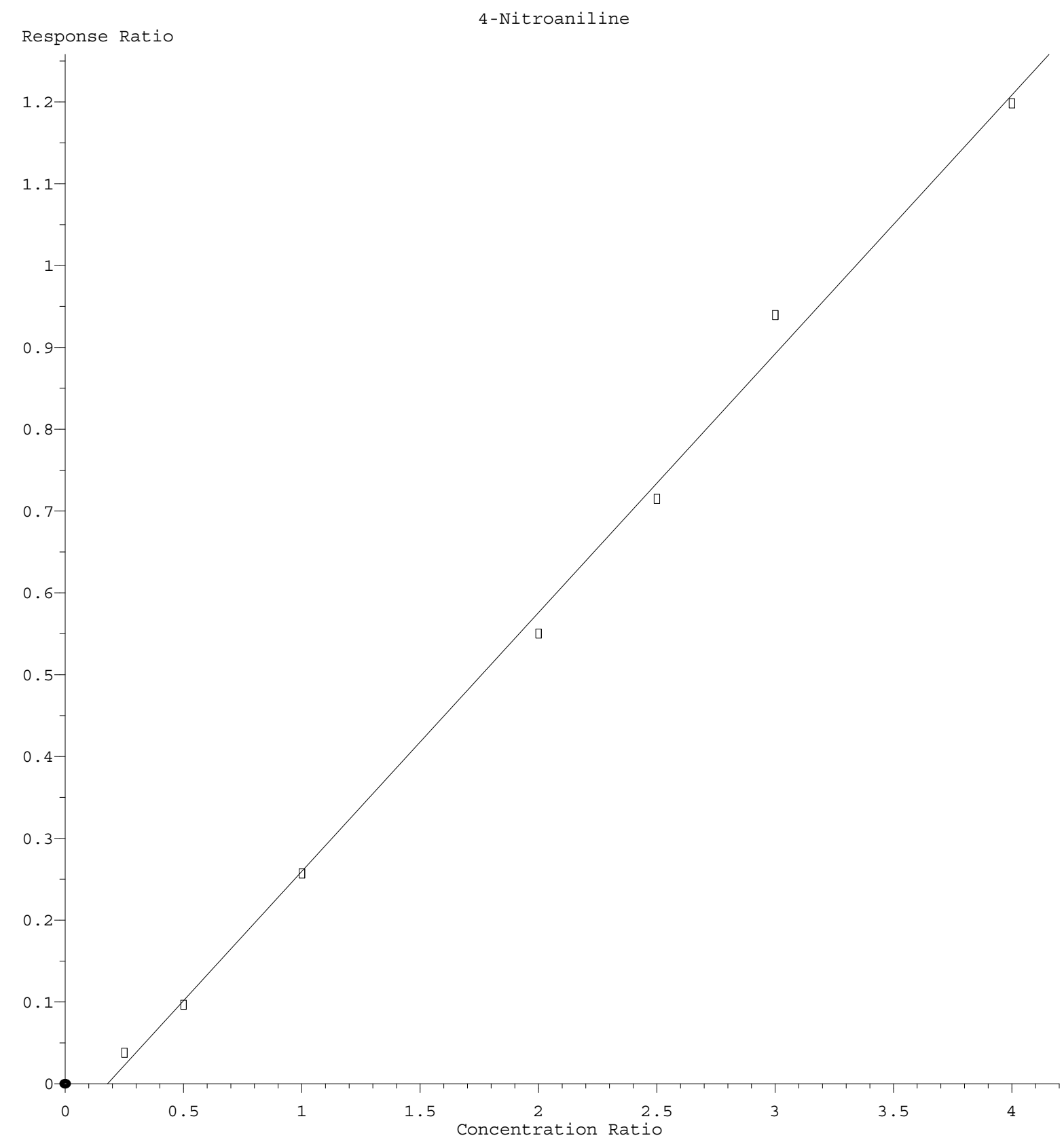

Response = 3.163e-001 * Amt - 5.666e-002
Coef of Det (r^2) = 0.996833 Curve Fit: Linear
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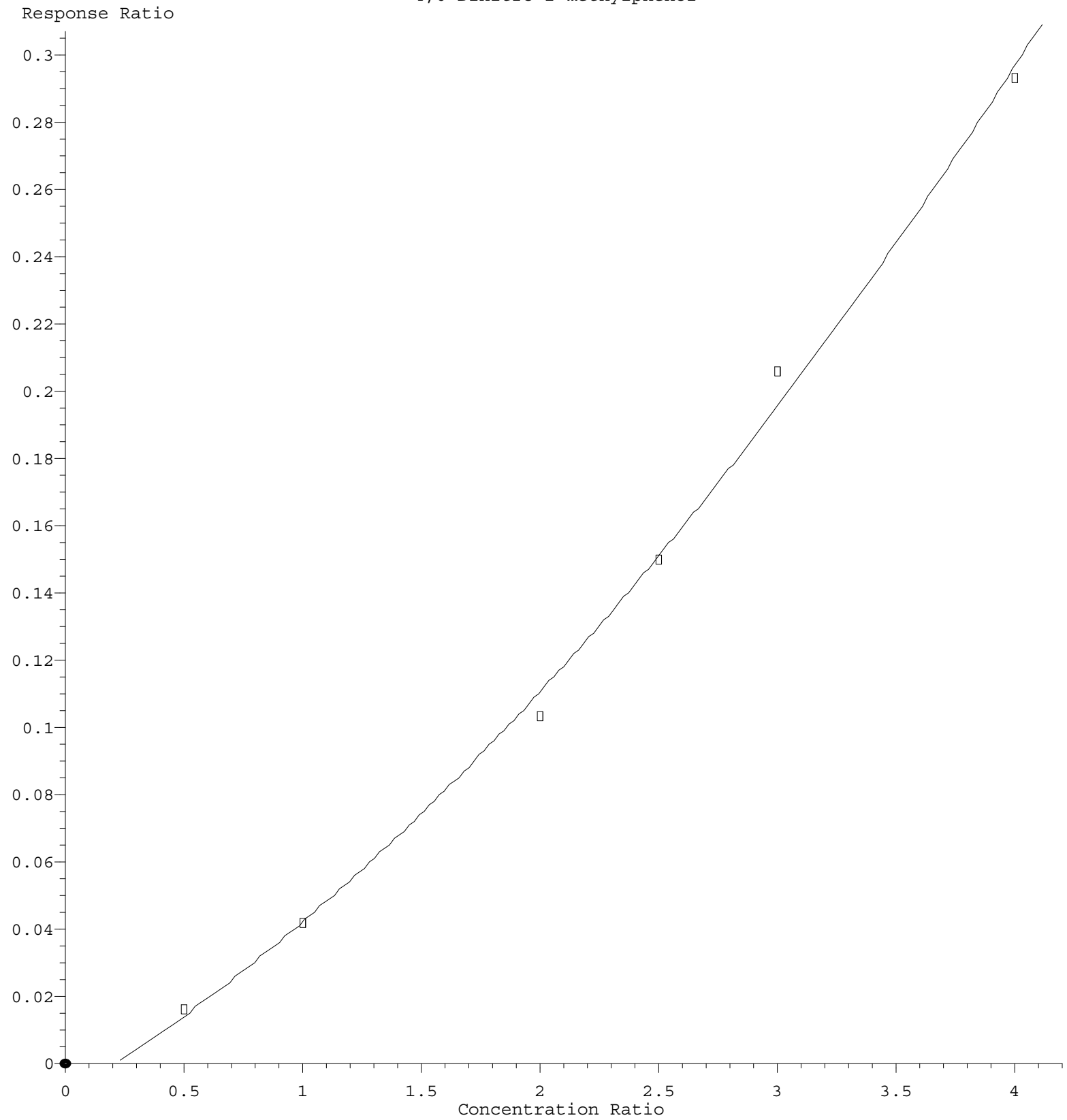
4,6-Dinitro-2-methylphenol



R = 8.186e-003 A*A + 4.390e-002 A - 9.890e-003
Coef of Det (r^2) = 0.996668 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG061223.M
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