Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP012323.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jan 24 04:44:15 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BP013545.D 5 =BP013546.D 10 =BP013547.D 20 =BP013548.D 40 =BP013549.D 50 =BP013550.D 60 =BP013551.D 80 =BP0135
52.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.496	0.484	0.477	0.495	0.475	0.451	0.417	0.471	5.98
3)		Pyridine		1.435	1.372	1.356	1.479	1.425	1.385	1.327	1.397	3.73
4)		n-Nitrosodimet...		0.665	0.639	0.646	0.662	0.634	0.607	0.569	0.632	5.34
5)	S	2-Fluorophenol		1.214	1.132	1.167	1.231	1.185	1.153	1.090	1.167	4.12
6)		Aniline		2.143	2.087	2.149	2.168	2.121	2.080	2.027	2.110	2.32
7)	S	Phenol-d6		1.602	1.516	1.588	1.626	1.590	1.559	1.517	1.571	2.69
8)		2-Chlorophenol		1.272	1.247	1.312	1.334	1.311	1.285	1.254	1.288	2.52
9)		Benzaldehyde		1.173	1.061	1.015	0.916	0.809			0.995	13.95
10)	C	Phenol		1.647	1.588	1.649	1.678	1.650	1.615	1.567	1.628	2.42
11)		bis(2-Chloroet...		1.406	1.327	1.359	1.360	1.327	1.285	1.253	1.331	3.81
12)		1,3-Dichlorobe...		1.507	1.421	1.454	1.479	1.419	1.374	1.318	1.424	4.49
13)	C	1,4-Dichlorobe...		1.534	1.462	1.461	1.496	1.434	1.390	1.333	1.444	4.62
14)		1,2-Dichlorobe...		1.496	1.415	1.424	1.440	1.386	1.345	1.283	1.399	4.94
15)		Benzyl Alcohol		1.139	1.068	1.135	1.139	1.137	1.127	1.114	1.122	2.29
16)		2,2'-oxybis(1-...		1.981	1.864	1.888	1.837	1.785	1.729	1.674	1.822	5.64
17)		2-Methylphenol		1.194	1.152	1.210	1.208	1.194	1.171	1.146	1.182	2.19
18)		Hexachloroethane		0.479	0.468	0.485	0.506	0.495	0.480	0.467	0.483	2.93
19)	P	n-Nitroso-di-n...	0.854	1.090	1.050	1.084	1.023	1.017	0.998	0.978	1.012	7.40
20)		3+4-Methylphenols		1.531	1.497	1.574	1.582	1.587	1.561	1.559	1.556	2.05
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.519	0.502	0.520	0.532	0.524	0.510	0.485	0.513	3.08
23)	S	Nitrobenzene-d5		0.231	0.255	0.297	0.330	0.340	0.337	0.331	0.303	14.54
24)		Nitrobenzene		0.267	0.285	0.324	0.351	0.356	0.353	0.345	0.326	11.09
25)		Isophorone		0.730	0.700	0.727	0.718	0.726	0.716	0.712	0.719	1.46
26)	C	2-Nitrophenol		0.057	0.064	0.085	0.106	0.122	0.130		0.094	32.19#
27)		2,4-Dimethylph...		0.291	0.292	0.312	0.321	0.323	0.319	0.312	0.310	4.29
28)		bis(2-Chloroet...		0.436	0.416	0.437	0.439	0.443	0.434	0.426	0.433	2.11
29)	C	2,4-Dichloroph...		0.247	0.260	0.282	0.298	0.303	0.303	0.305	0.285	8.26
30)		1,2,4-Trichlor...		0.325	0.311	0.324	0.336	0.335	0.329	0.320	0.326	2.64
31)		Naphthalene		1.084	1.044	1.078	1.108	1.103	1.075	1.035	1.075	2.56
32)		Benzoic acid			0.077	0.106	0.131	0.155	0.166	0.196	0.138	31.08
33)		4-Chloroaniline		0.475	0.456	0.476	0.482	0.486	0.478	0.477	0.476	1.98
34)	C	Hexachlorobuta...		0.189	0.183	0.189	0.198	0.194	0.189	0.184	0.189	2.76
35)		Caprolactam		0.085	0.081	0.091	0.091	0.094	0.097	0.110	0.093	9.99
36)	C	4-Chloro-3-met...		0.283	0.281	0.315	0.314	0.325	0.323	0.334	0.311	6.68
37)		2-Methylnaphth...		0.770	0.744	0.769	0.772	0.778	0.762	0.755	0.764	1.48
38)		1-Methylnaphth...		0.731	0.701	0.727	0.717	0.728	0.715	0.707	0.718	1.57

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.594	0.591	0.604	0.652	0.653	0.627	0.590	0.616	4.55
41)	P	Hexachlorocycl...		0.218	0.252	0.302	0.325	0.325	0.317	0.290	15.30
42)	S	2,4,6-Tribromo...	0.167	0.172	0.199	0.213	0.226	0.227		0.201	13.18
43)	C	2,4,6-Trichlor...	0.289	0.310	0.351	0.381	0.401	0.396	0.395	0.360	12.51
44)		2,4,5-Trichlor...	0.337	0.369	0.415	0.453	0.474	0.467	0.465	0.426	12.70
45)	S	2-Fluorobiphenyl	1.472	1.448	1.468	1.532	1.524	1.454	1.302	1.457	5.22
46)		1,1'-Biphenyl	1.616	1.566	1.596	1.677	1.672	1.614	1.503	1.606	3.76
47)		2-Chloronaphth...	1.202	1.171	1.201	1.253	1.251	1.209	1.137	1.203	3.45
48)		2-Nitroaniline	0.125	0.152	0.213	0.263	0.295	0.305	0.332	0.241	33.07
49)		Acenaphthylene	1.931	1.901	1.972	2.038	2.042	1.989	1.903	1.968	3.00
50)		Dimethylphthalate	1.492	1.429	1.487	1.499	1.518	1.477	1.506	1.487	1.93
51)		2,6-Dinitrotol...	0.125	0.165	0.233	0.264	0.287	0.291	0.315	0.240	29.36
52)	C	Acenaphthene	1.197	1.165	1.200	1.251	1.263	1.229	1.205	1.216	2.80
53)		3-Nitroaniline	0.154	0.194	0.260	0.301	0.323	0.328	0.366	0.275	27.92
54)	P	2,4-Dinitrophenol	0.033	0.038	0.051	0.065	0.078	0.087		0.058	37.60
55)		Dibenzofuran	1.905	1.832	1.863	1.902	1.911	1.840	1.797	1.864	2.34
56)	P	4-Nitrophenol		0.145	0.195	0.229	0.241	0.249		0.212	20.07
57)		2,4-Dinitrotol...	0.133	0.175	0.263	0.313	0.351	0.362		0.266	35.50
58)		Fluorene	1.523	1.445	1.503	1.509	1.513	1.456	1.420	1.482	2.71
59)		2,3,4,6-Tetrac...	0.273	0.284	0.318	0.337	0.348	0.352	0.377	0.327	11.49
60)		Diethylphthalate	1.471	1.383	1.460	1.450	1.458	1.427	1.516	1.452	2.79
61)		4-Chlorophenyl...	0.745	0.705	0.732	0.736	0.744	0.723	0.714	0.729	2.06
62)		4-Nitroaniline	0.168	0.198	0.267	0.311	0.323	0.323		0.265	25.44
63)		Azobenzene	1.474	1.388	1.432	1.420	1.417	1.372	1.373	1.411	2.58
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.027	0.040	0.053	0.065	0.072	0.090	0.058	39.19
66)	c	n-Nitrosodiphe...	0.634	0.631	0.663	0.675	0.686	0.672	0.604	0.652	4.54
67)		4-Bromophenyl-...	0.214	0.210	0.220	0.226	0.233	0.233	0.216	0.222	4.15
68)		Hexachlorobenzene	0.235	0.227	0.237	0.243	0.250	0.248	0.235	0.239	3.44
69)		Atrazine	0.174	0.171	0.189	0.199	0.194	0.191	0.189	0.187	5.42
70)	C	Pentachlorophenol		0.099	0.127	0.143	0.151	0.153	0.163	0.139	16.51
71)		Phenanthrene	1.134	1.075	1.111	1.151	1.145	1.121	1.053	1.113	3.29
72)		Anthracene	1.115	1.085	1.132	1.181	1.167	1.151	1.075	1.129	3.56
73)		Carbazole	1.018	0.962	1.001	1.066	1.042	1.014	1.002	1.015	3.25
74)		Di-n-butylphth...	1.055	0.996	1.116	1.186	1.186	1.165	1.204	1.130	6.94
75)	C	Fluoranthene	1.200	1.090	1.134	1.255	1.206	1.174	1.224	1.183	4.75
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.546	0.523	0.502	0.528	0.458	0.476	0.488	0.503	6.22
78)		Pyrene	1.598	1.534	1.636	1.482	1.539	1.498	1.418	1.529	4.75
79)	S	Terphenyl-d14	1.183	1.124	1.204	1.112	1.126	1.093	0.940	1.112	7.67
80)		Butylbenzylpht...	0.404	0.407	0.487	0.527	0.545	0.552		0.487	13.72
81)		Benzo(a)anthra...	1.403	1.336	1.388	1.431	1.430	1.410	1.355	1.393	2.62
82)		3,3'-Dichlorob...	0.392	0.390	0.439	0.482	0.487	0.486	0.466	0.449	9.51
83)		Chrysene	1.337	1.294	1.343	1.376	1.366	1.338	1.275	1.333	2.74
84)		Bis(2-ethylhex...	0.691	0.677	0.751	0.814	0.821	0.820	0.881	0.779	9.65
85)	c	Di-n-octyl pht...	1.022	1.041	1.144	1.362	1.374	1.380	1.472	1.256	14.56

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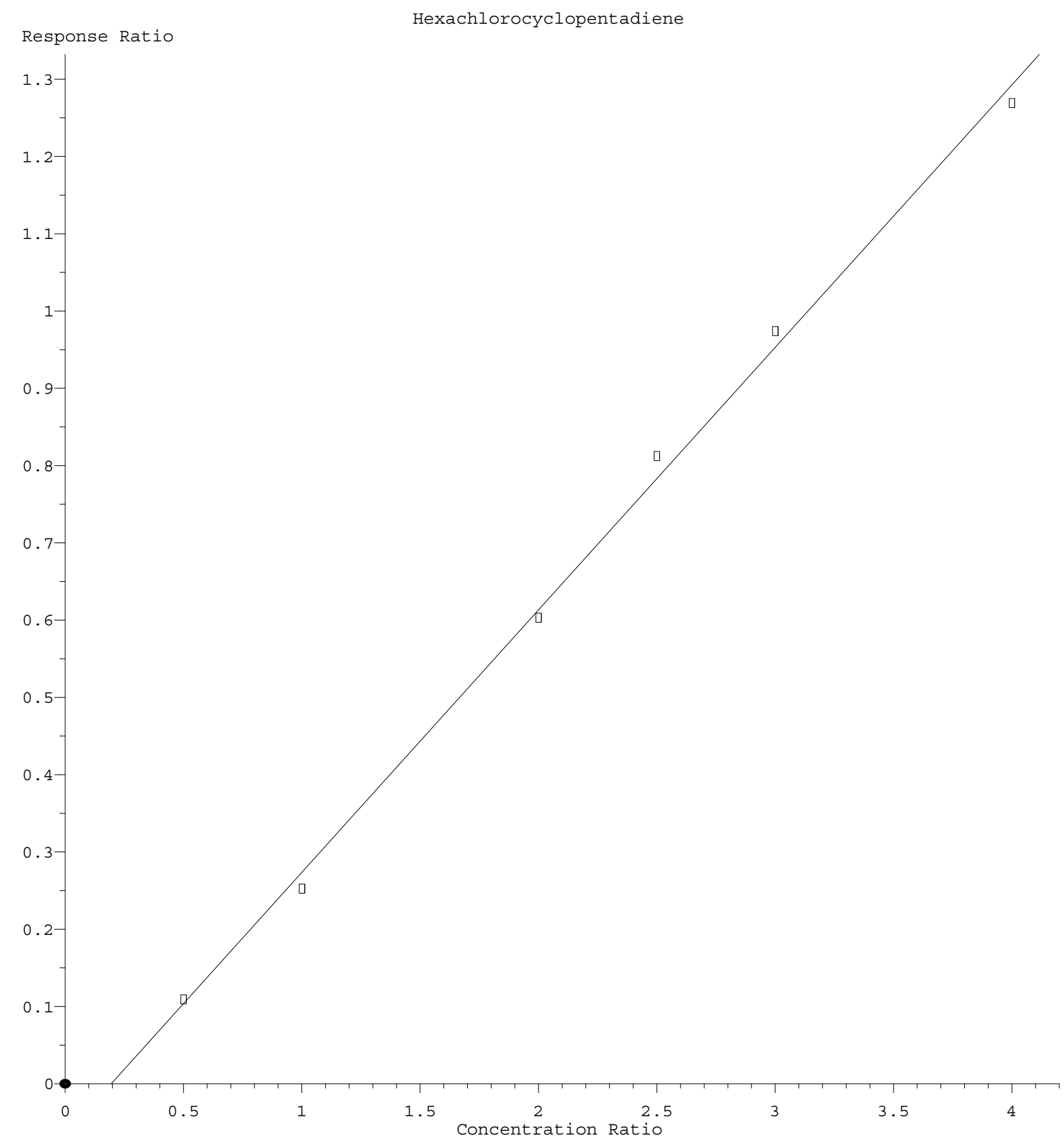
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.332	1.396	1.481	1.589	1.607	1.584	1.324	1.473	8.39
88)		Benzo(b)fluora...	1.203	1.148	1.199	1.268	1.267	1.244	1.283	1.230	3.96
89)		Benzo(k)fluora...	1.250	1.198	1.250	1.263	1.266	1.243	1.314	1.255	2.75
90)	C	Benzo(a)pyrene	1.154	1.118	1.177	1.240	1.242	1.219	1.204	1.194	3.86
91)		Dibenzo(a,h)an...	1.101	1.171	1.240	1.331	1.355	1.335	1.118	1.236	8.70
92)		Benzo(g,h,i)pe...	1.097	1.162	1.219	1.297	1.319	1.293	1.056	1.206	8.63

(#) = Out of Range



Response = 3.398e-001 * Amt - 6.632e-002
Coef of Det (r^2) = 0.997487 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
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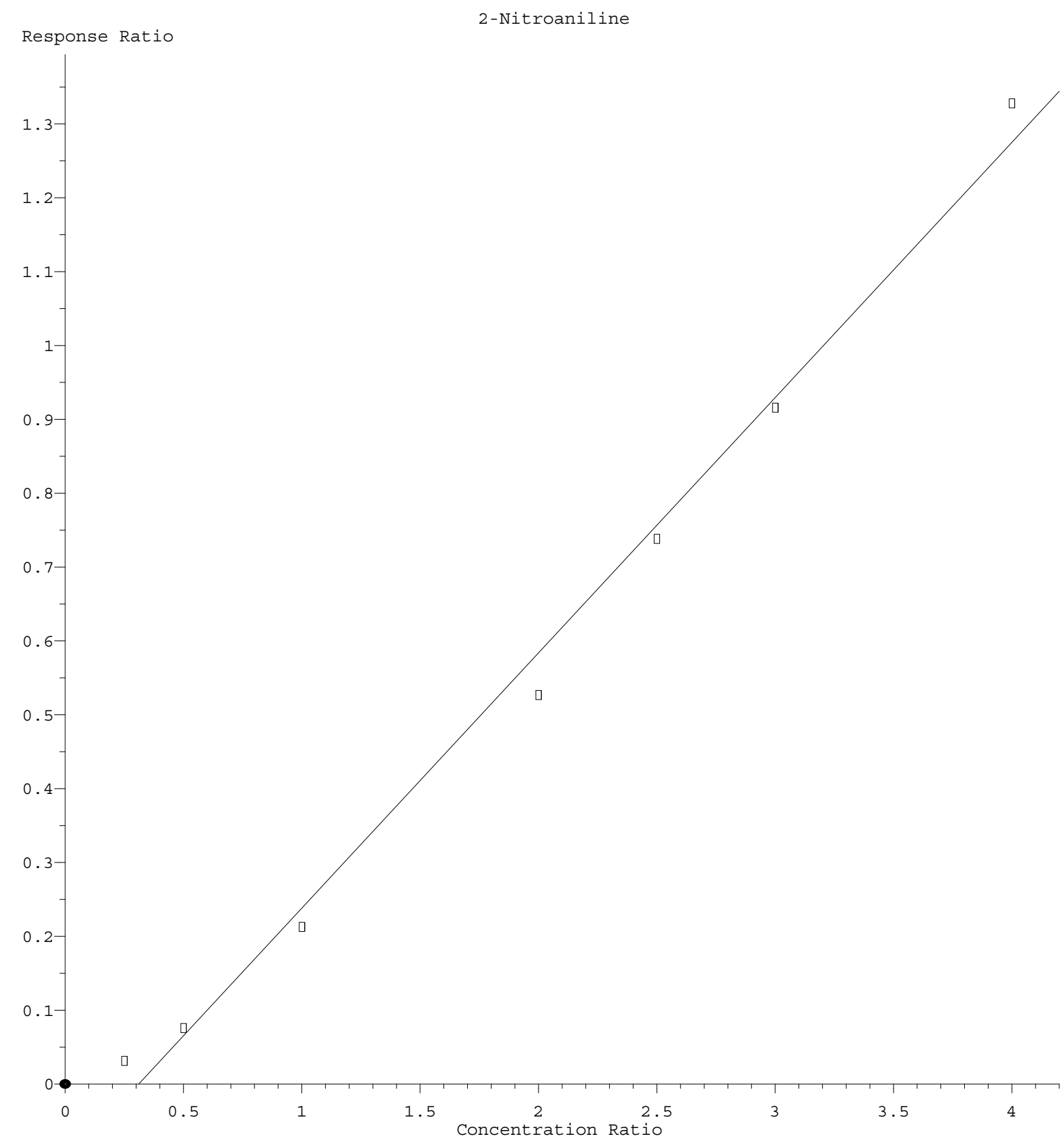

Response = 3.457e-001 * Amt - 1.075e-001
Coef of Det (r^2) = 0.992721 Curve Fit: Linear
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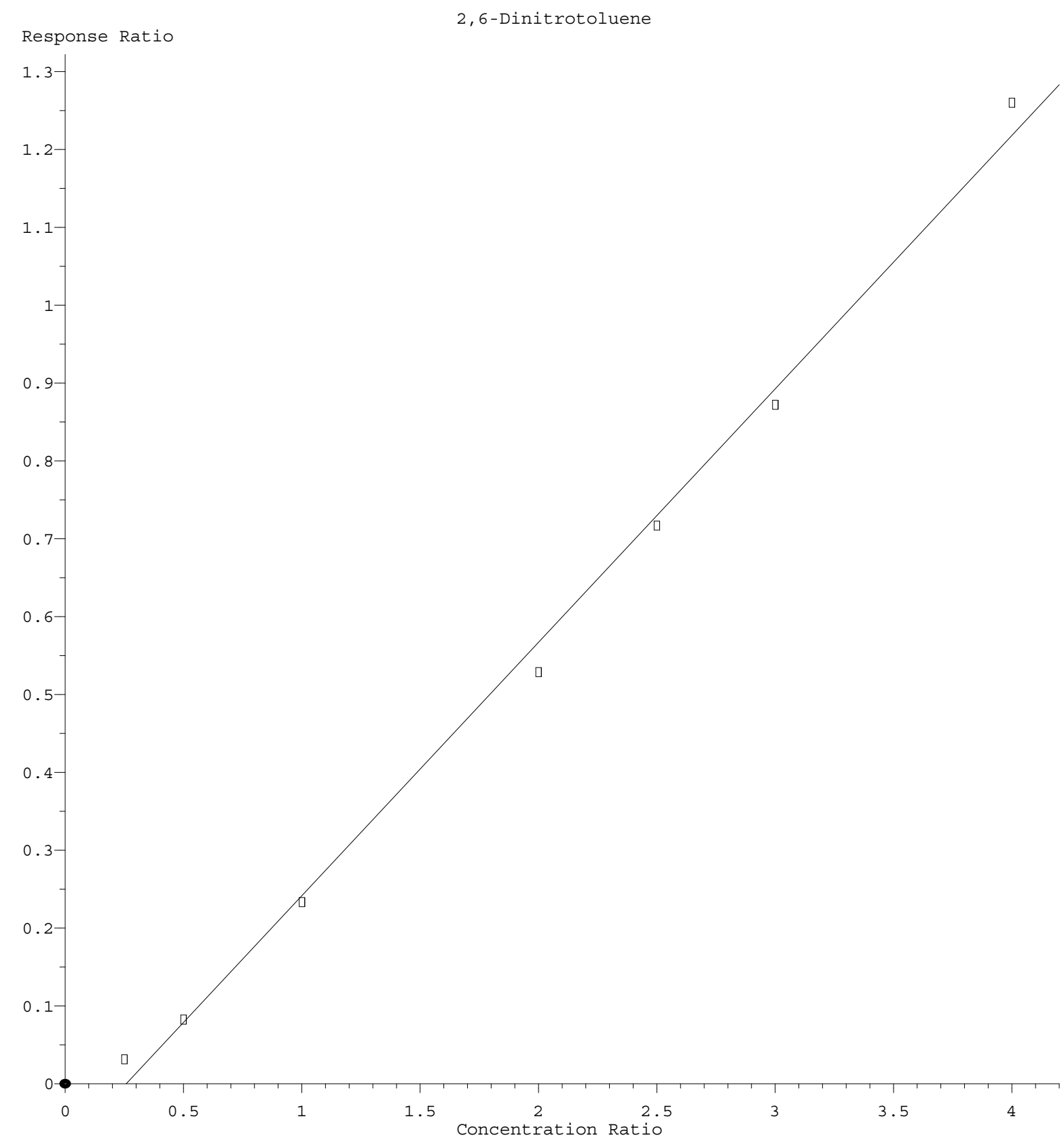
Calibration Table Last Updated: Tue Jan 24 04:44:15 2023



Response = 3.255e-001 * Amt - 8.404e-002
Coef of Det (r^2) = 0.995874 Curve Fit: Linear
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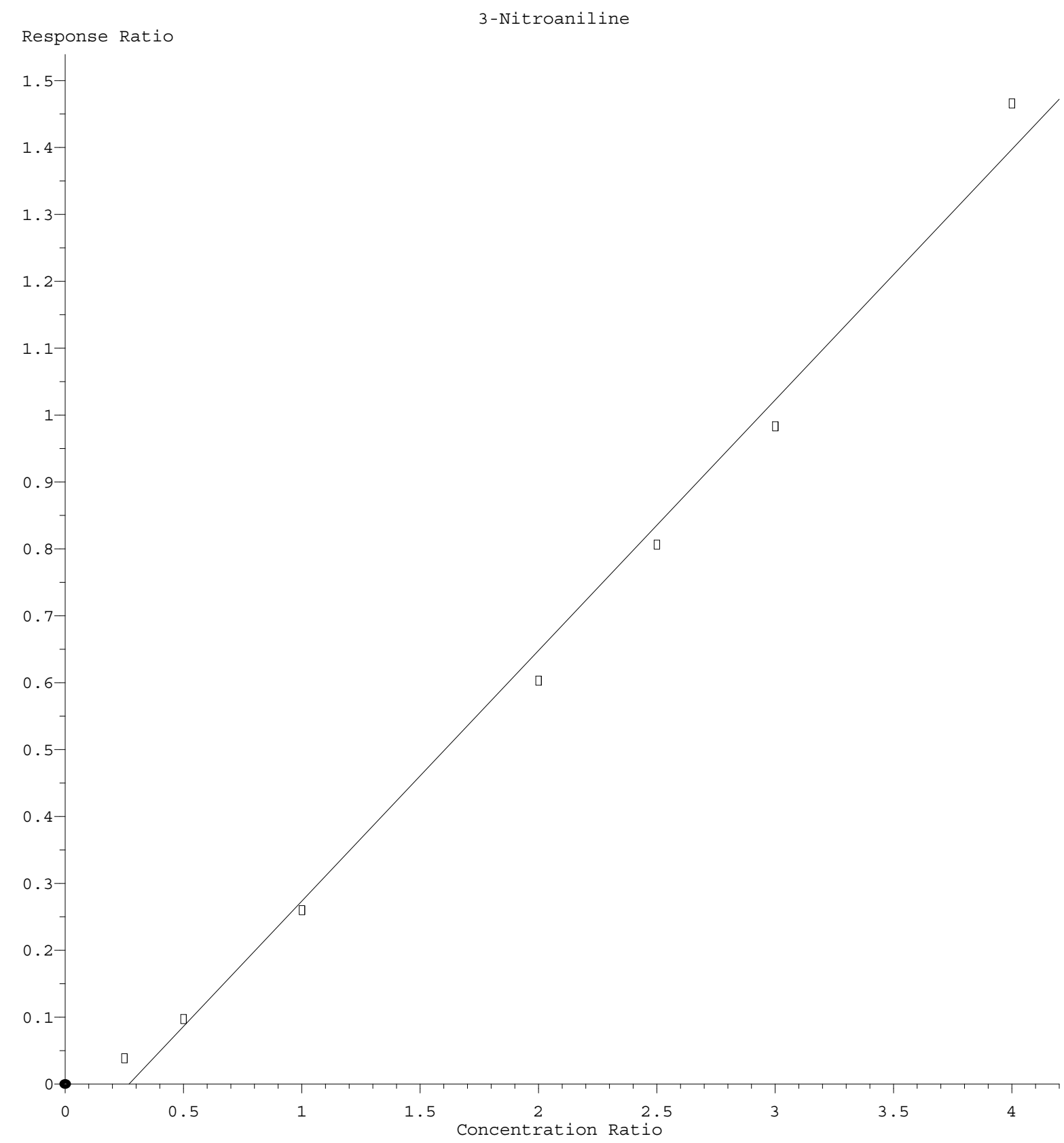
Calibration Table Last Updated: Tue Jan 24 04:44:15 2023



Response = 3.745e-001 * Amt - 1.013e-001
Coef of Det (r^2) = 0.992875 Curve Fit: Linear
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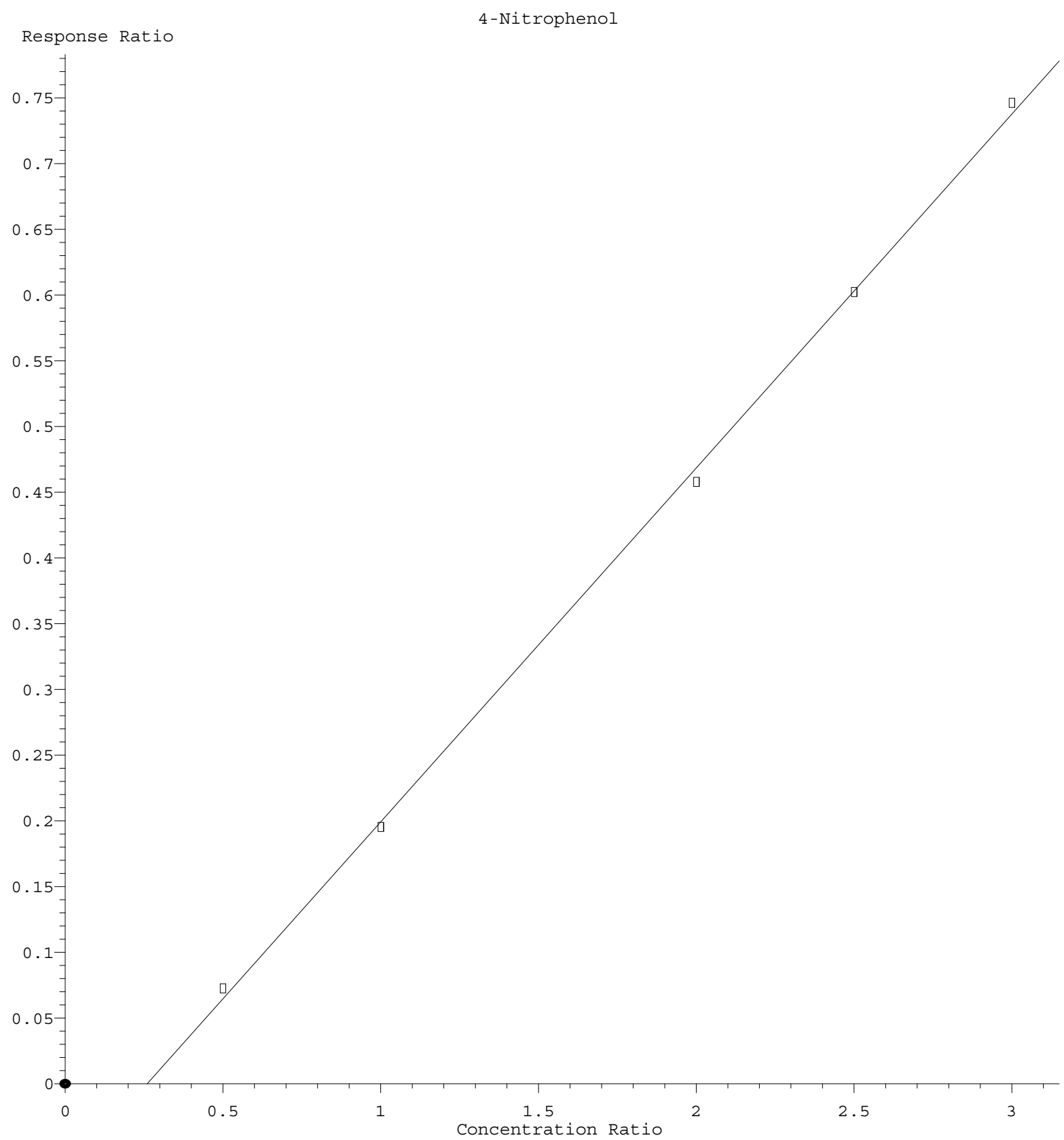

Response = 2.693e-001 * Amt - 6.991e-002
Coef of Det (r^2) = 0.999157 Curve Fit: Linear
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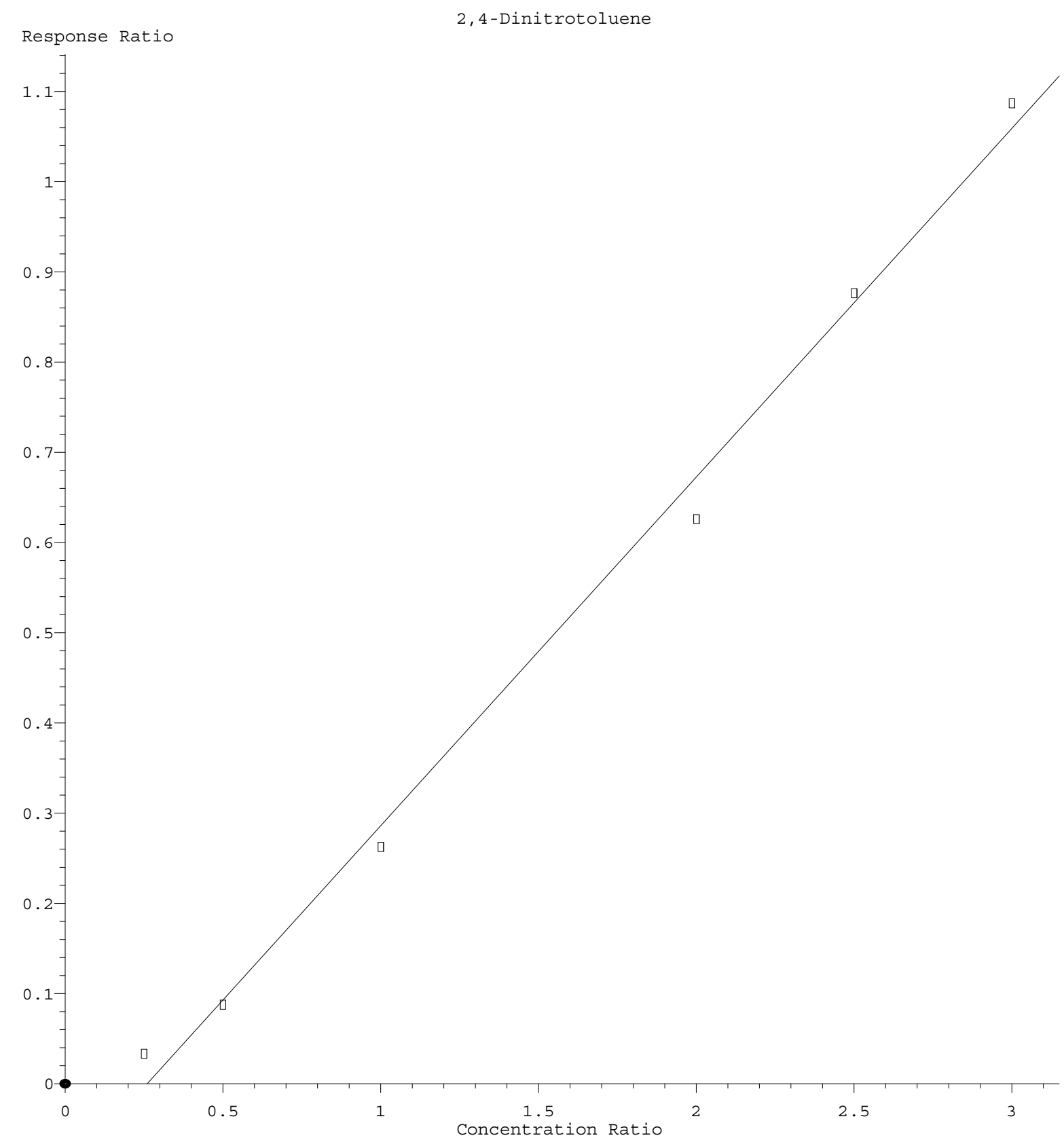
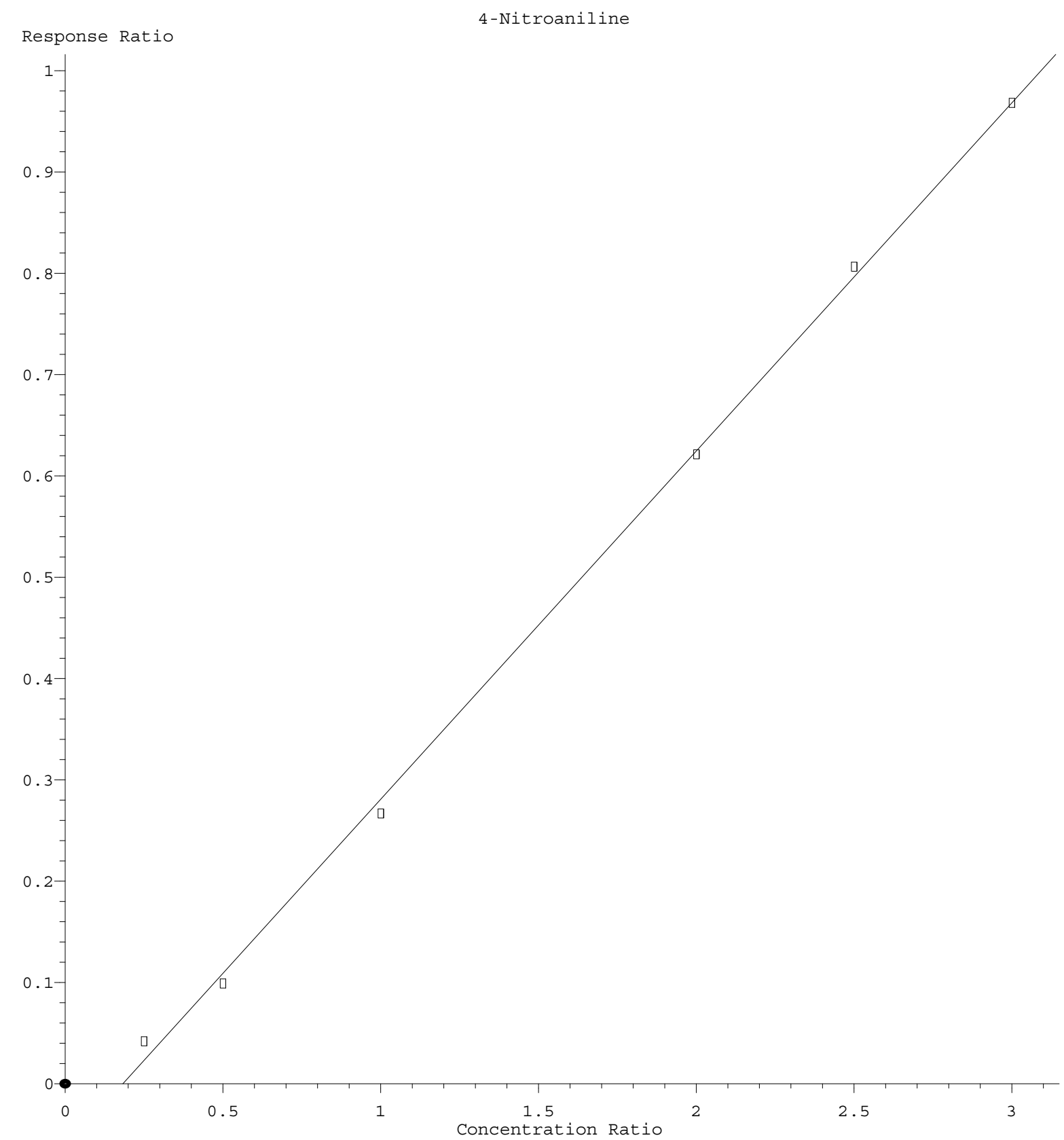


Response = 3.864e-001 * Amt - 1.003e-001
Coef of Det (r^2) = 0.994698 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
Calibration Table Last Updated: Tue Jan 24 04:44:15 2023



Response = 3.440e-001 * Amt - 6.300e-002
Coef of Det (r^2) = 0.998978 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
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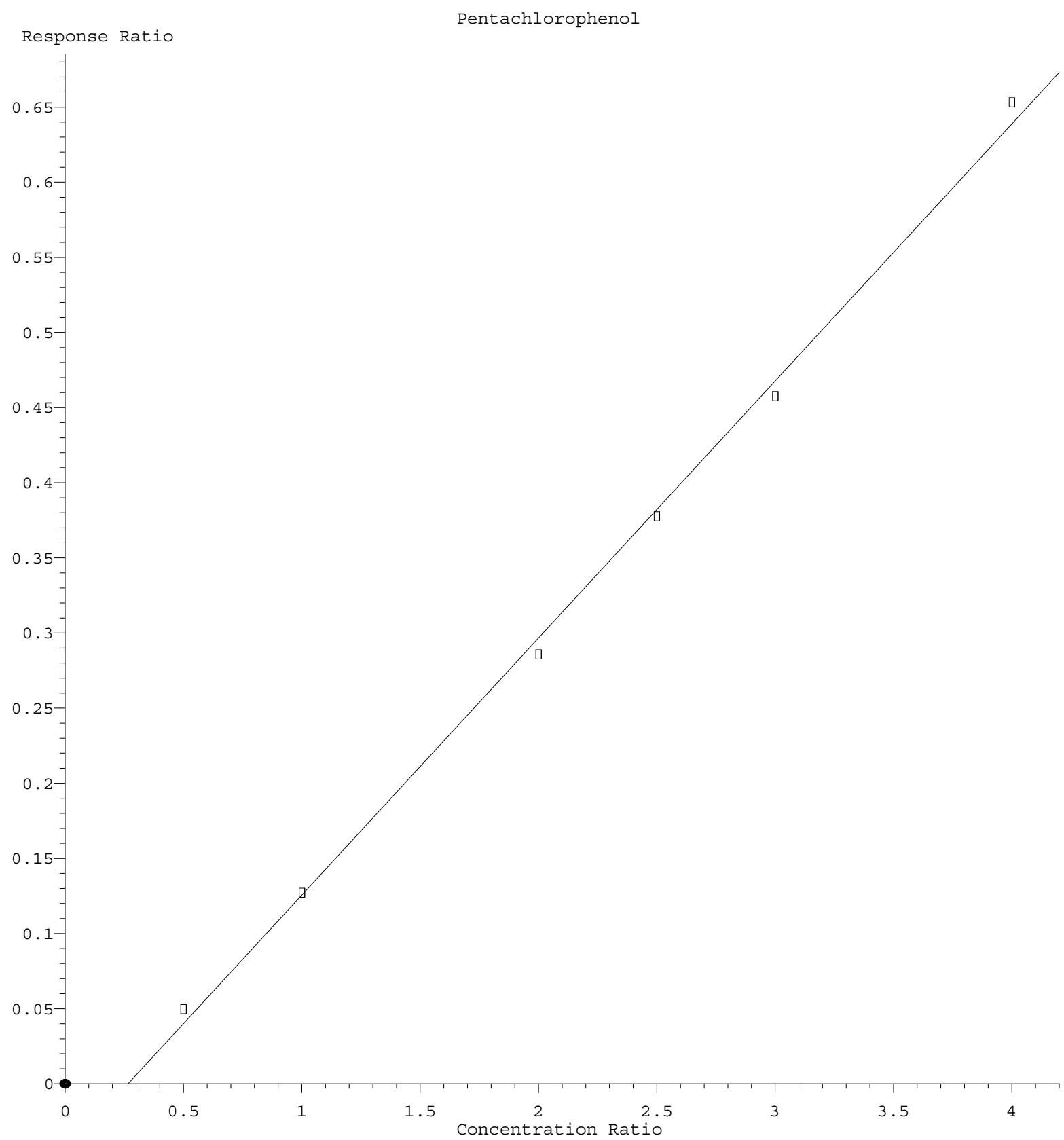

Response = 1.711e-001 * Amt - 4.559e-002
Coef of Det (r^2) = 0.997767 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
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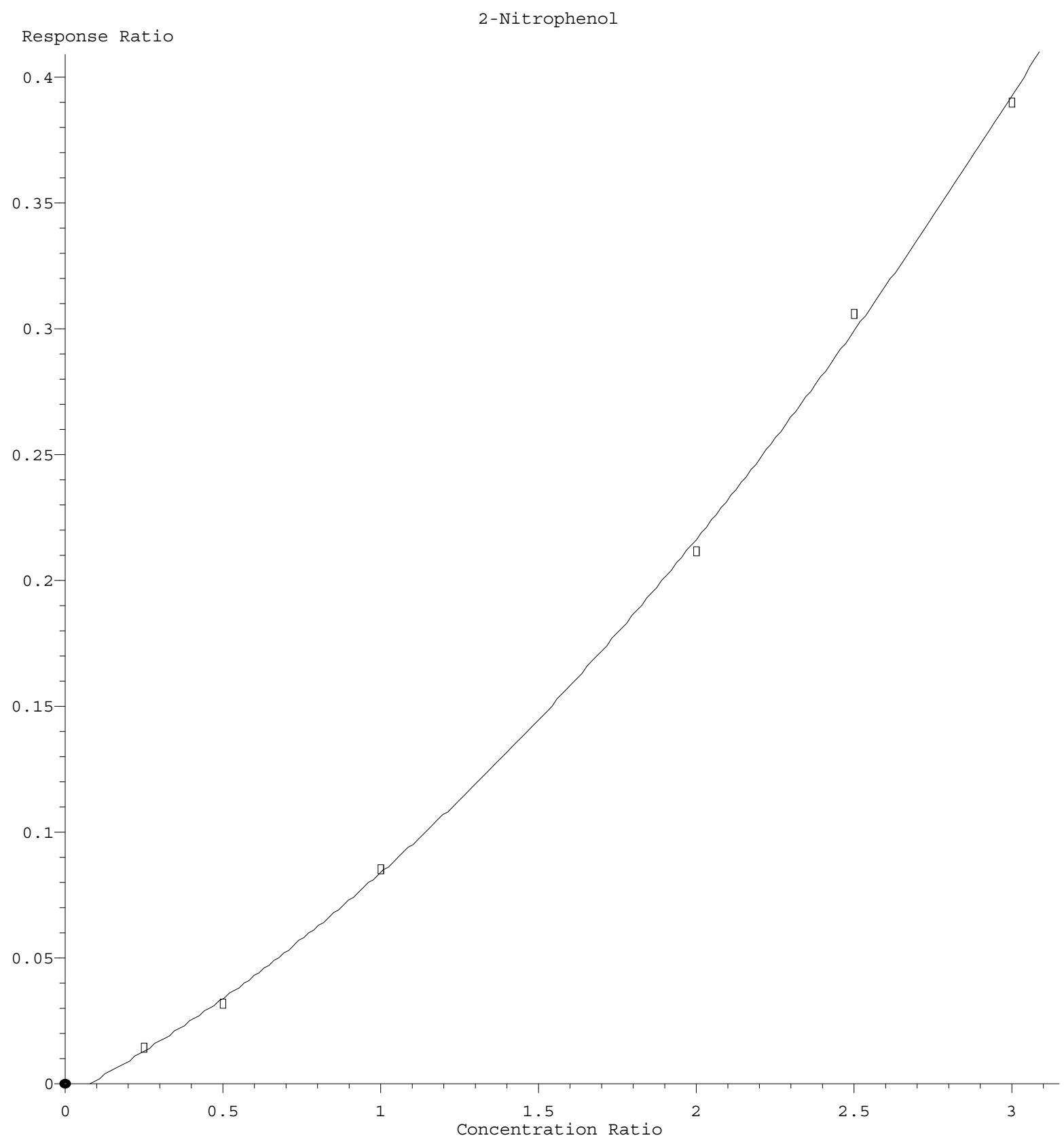

R = 2.177e-002 A*A + 6.727e-002 A - 5.218e-003
Coef of Det (r^2) = 0.999284 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
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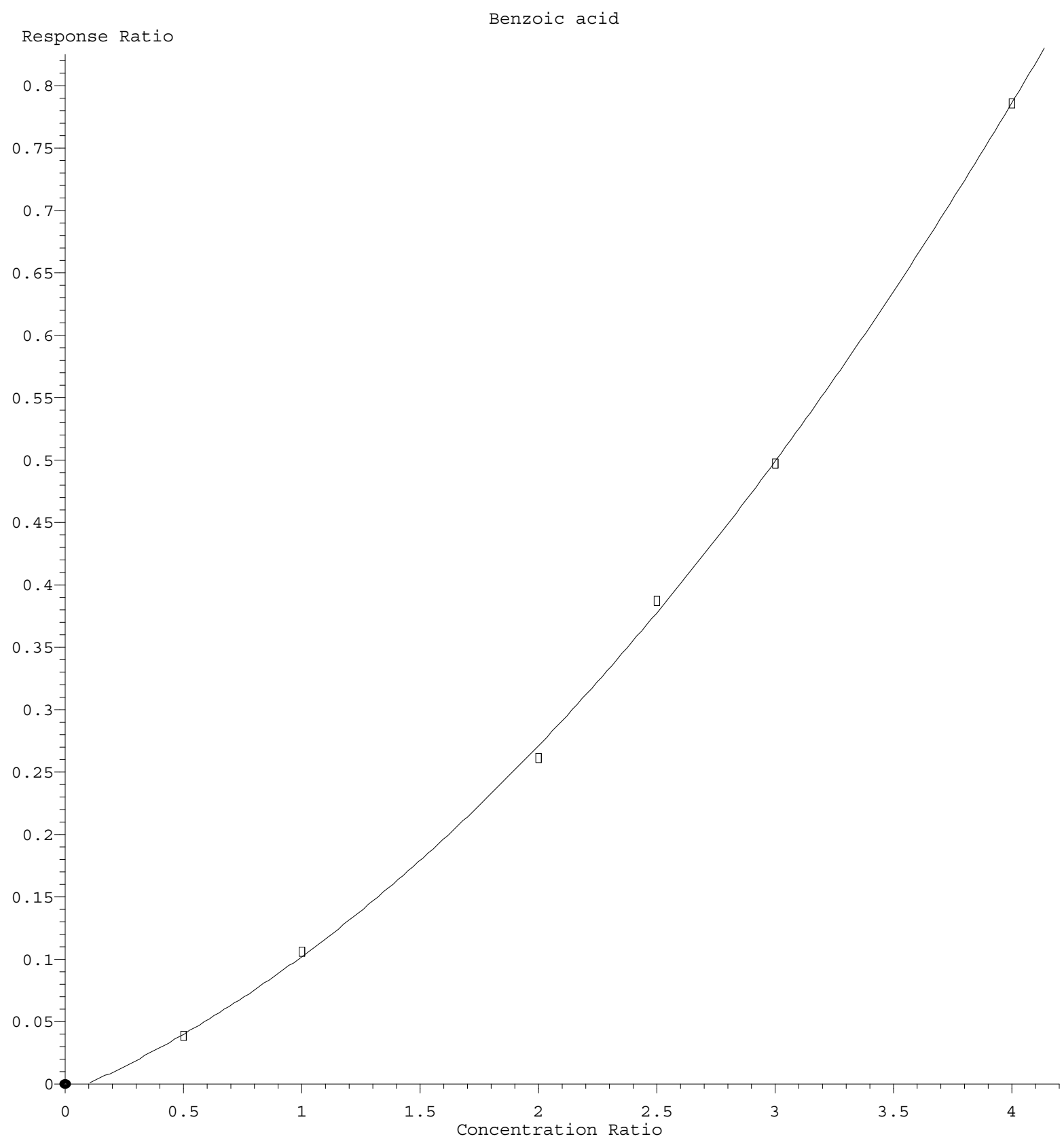

R = 2.953e-002 A*A + 8.035e-002 A - 7.788e-003
Coef of Det (r^2) = 0.999454 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
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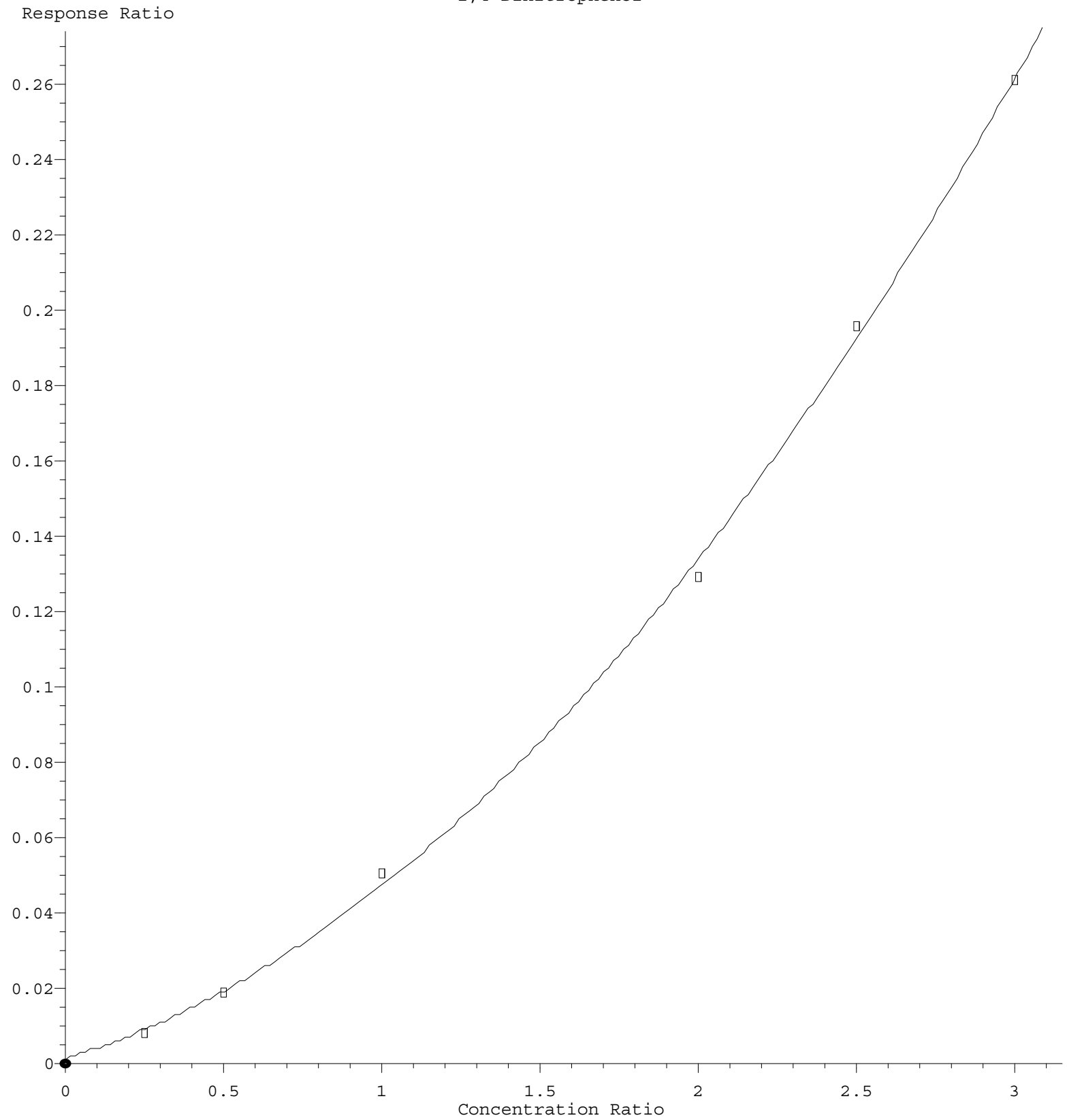
2,4-Dinitrophenol



R = 2.048e-002 A*A + 2.526e-002 A + 1.465e-003
Coef of Det (r^2) = 0.999160 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
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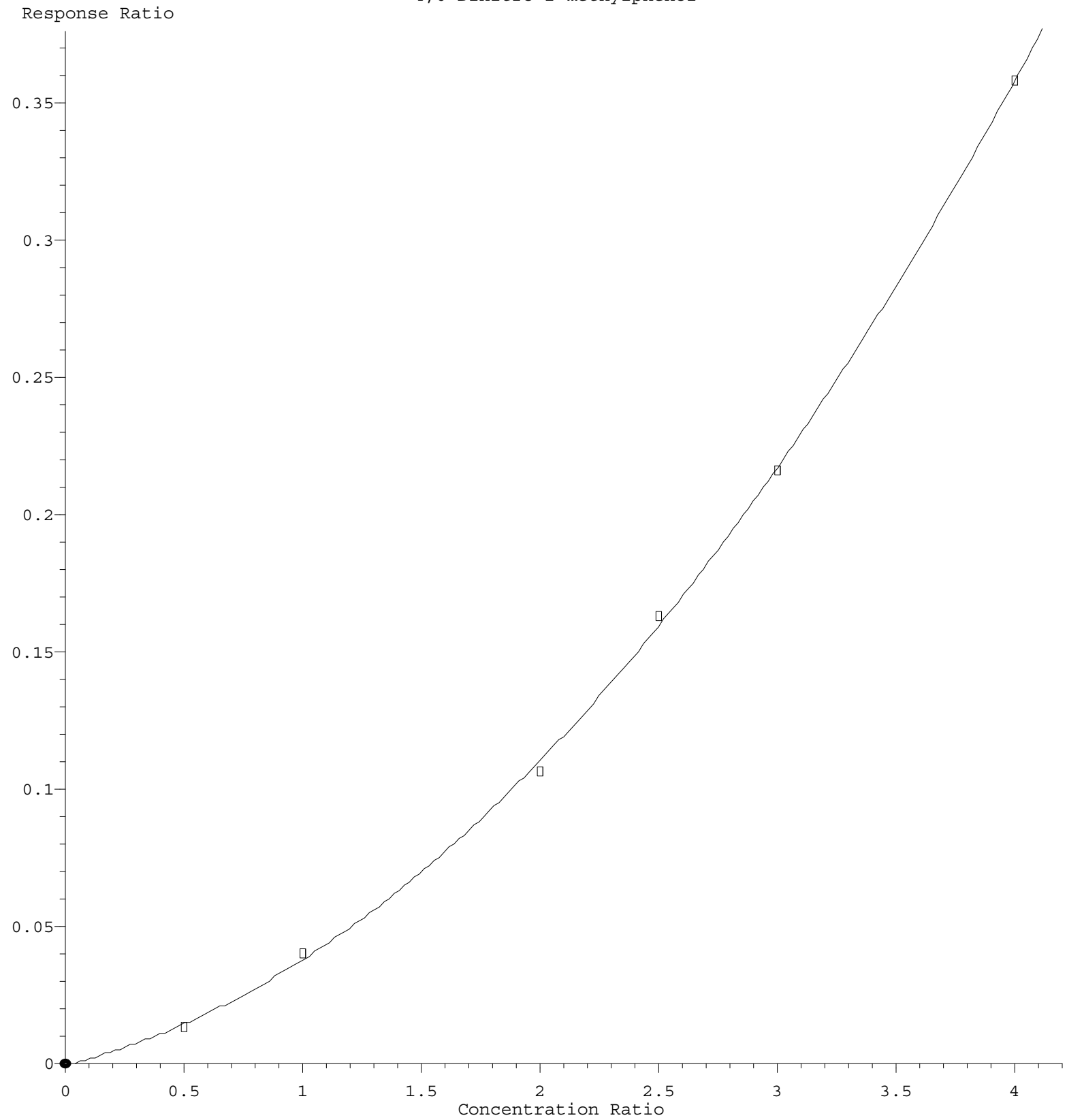
4,6-Dinitro-2-methylphenol



R = 1.711e-002 A*A + 2.122e-002 A - 5.198e-004
Coef of Det (r^2) = 0.999553 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
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