Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM050824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 08 16:45:57 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BM045705.D 5 =BM045706.D 10 =BM045707.D 20 =BM045708.D 40 =BM045709.D 50 =BM045710.D 60 =BM045711.D 80 =BM0457
12.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.490	0.455	0.462	0.441	0.443	0.448	0.459	0.457	3.65
3)		Pyridine		1.310	1.289	1.344	1.336	1.348	1.393	1.439	1.351	3.73
4)		n-Nitrosodimet...		0.704	0.681	0.724	0.699	0.699	0.715	0.730	0.707	2.38
5)	S	2-Fluorophenol		1.199	1.161	1.211	1.182	1.191	1.224	1.250	1.203	2.42
6)		Aniline		1.596	1.583	1.653	1.662	1.656	1.672	1.494	1.617	3.96
7)	S	Phenol-d6		1.581	1.551	1.652	1.618	1.642	1.674	1.697	1.631	3.14
8)		2-Chlorophenol		1.330	1.302	1.364	1.320	1.320	1.349	1.345	1.333	1.60
9)		Benzaldehyde		1.155	1.060	1.022	0.795	0.754	0.734	0.589	0.872	23.71
10)	C	Phenol		1.611	1.598	1.676	1.632	1.643	1.675	1.690	1.646	2.12
11)		bis(2-Chloroet...		1.414	1.368	1.424	1.367	1.383	1.401	1.411	1.395	1.63
12)		1,3-Dichlorobe...		1.541	1.484	1.542	1.469	1.458	1.490	1.491	1.496	2.21
13)	C	1,4-Dichlorobe...		1.558	1.511	1.543	1.489	1.485	1.509	1.511	1.515	1.77
14)		1,2-Dichlorobe...		1.509	1.461	1.500	1.413	1.416	1.429	1.417	1.449	2.84
15)		Benzyl Alcohol		1.125	1.100	1.178	1.147	1.161	1.185	1.184	1.154	2.82
16)		2,2'-oxybis(1-...		2.215	2.155	2.242	2.107	2.108	2.131	2.104	2.152	2.61
17)		2-Methylphenol		1.111	1.093	1.147	1.111	1.112	1.128	1.127	1.119	1.55
18)		Hexachloroethane		0.599	0.573	0.605	0.576	0.579	0.594	0.598	0.589	2.16
19)	P	n-Nitroso-di-n...	1.136	1.130	1.111	1.166	1.099	1.108	1.109	1.099	1.120	2.06
20)		3+4-Methylphenols		1.501	1.509	1.603	1.551	1.569	1.597	1.605	1.562	2.80
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.485	0.468	0.494	0.467	0.467	0.477	0.476	0.476	2.19
23)	S	Nitrobenzene-d5		0.327	0.331	0.358	0.348	0.353	0.364	0.365	0.349	4.34
24)		Nitrobenzene		0.340	0.334	0.357	0.342	0.347	0.356	0.358	0.348	2.78
25)		Isophorone		0.715	0.681	0.721	0.681	0.684	0.701	0.699	0.698	2.31
26)	C	2-Nitrophenol		0.089	0.096	0.119	0.131	0.140	0.151	0.160	0.127	21.32
27)		2,4-Dimethylph...		0.214	0.200	0.216	0.208	0.209	0.214	0.216	0.211	2.70
28)		bis(2-Chloroet...		0.436	0.415	0.437	0.414	0.419	0.430	0.430	0.426	2.29
29)	C	2,4-Dichloroph...		0.244	0.243	0.264	0.263	0.267	0.277	0.283	0.263	5.85
30)		1,2,4-Trichlor...		0.301	0.286	0.303	0.293	0.293	0.303	0.304	0.297	2.30
31)		Naphthalene		1.042	0.993	1.043	0.986	0.989	1.013	1.007	1.011	2.37
32)		Benzoic acid			0.108	0.141	0.163	0.178	0.197	0.216	0.167	23.39
33)		4-Chloroaniline		0.400	0.387	0.407	0.395	0.397	0.407	0.414	0.401	2.23
34)	C	Hexachlorobuta...		0.172	0.163	0.174	0.166	0.167	0.172	0.173	0.170	2.43
35)		Caprolactam		0.091	0.092	0.099	0.098	0.103	0.105	0.107	0.099	6.15
36)	C	4-Chloro-3-met...		0.283	0.290	0.313	0.307	0.316	0.326	0.330	0.309	5.65
37)		2-Methylnaphth...		0.705	0.671	0.704	0.676	0.684	0.697	0.701	0.691	2.05
38)		1-Methylnaphth...		0.702	0.668	0.700	0.666	0.673	0.690	0.685	0.683	2.17

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.493	0.465	0.503	0.487	0.483	0.507	0.514	0.493	3.38
41)	P	Hexachlorocycl...	0.154	0.157	0.176	0.181	0.175	0.186	0.190	0.174	7.93
42)	S	2,4,6-Tribromo...	0.167	0.174	0.199	0.198	0.201	0.214	0.219	0.196	9.79
43)	C	2,4,6-Trichlor...	0.276	0.283	0.317	0.326	0.327	0.347	0.356	0.319	9.49
44)		2,4,5-Trichlor...	0.307	0.318	0.359	0.359	0.362	0.383	0.394	0.355	9.03
45)	S	2-Fluorobiphenyl	1.316	1.261	1.330	1.256	1.231	1.191	1.018	1.229	8.50
46)		1,1'-Biphenyl	1.419	1.353	1.427	1.363	1.348	1.395	1.404	1.387	2.32
47)		2-Chloronaphth...	1.111	1.061	1.119	1.070	1.052	1.090	1.100	1.086	2.36
48)		2-Nitroaniline	0.207	0.238	0.288	0.306	0.318	0.340	0.350	0.292	18.03
49)		Acenaphthylene	1.686	1.621	1.718	1.642	1.623	1.677	1.646	1.659	2.15
50)		Dimethylphthalate	1.377	1.323	1.393	1.333	1.337	1.389	1.396	1.364	2.32
51)		2,6-Dinitrotol...	0.213	0.238	0.275	0.283	0.287	0.305	0.312	0.273	13.00
52)	C	Acenaphthene	1.064	1.024	1.073	1.023	1.016	1.057	1.068	1.046	2.33
53)		3-Nitroaniline	0.234	0.260	0.307	0.319	0.324	0.344	0.356	0.306	14.46
54)	P	2,4-Dinitrophenol	0.046	0.051	0.064	0.081	0.093	0.111	0.126	0.082	36.94
55)		Dibenzofuran	1.641	1.581	1.644	1.557	1.543	1.598	1.558	1.589	2.56
56)	P	4-Nitrophenol	0.172	0.205	0.248	0.262	0.269	0.290	0.298	0.249	18.30
57)		2,4-Dinitrotol...	0.240	0.291	0.360	0.379	0.392	0.420	0.431	0.359	19.45
58)		Fluorene	1.375	1.319	1.382	1.323	1.308	1.365	1.358	1.347	2.22
59)		2,3,4,6-Tetrac...	0.254	0.264	0.297	0.299	0.297	0.315	0.322	0.292	8.54
60)		Diethylphthalate	1.491	1.438	1.518	1.449	1.448	1.506	1.504	1.479	2.23
61)		4-Chlorophenyl...	0.657	0.624	0.654	0.626	0.614	0.642	0.650	0.638	2.64
62)		4-Nitroaniline	0.264	0.296	0.338	0.344	0.348	0.367	0.376	0.333	11.90
63)		Azobenzene	1.498	1.439	1.496	1.390	1.389	1.437	1.418	1.438	3.11
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.039	0.053	0.066	0.074	0.085	0.093	0.068	29.71
66)	c	n-Nitrosodiphe...	0.555	0.534	0.566	0.535	0.534	0.556	0.552	0.547	2.35
67)		4-Bromophenyl-...	0.188	0.184	0.196	0.188	0.187	0.196	0.197	0.191	2.79
68)		Hexachlorobenzene	0.225	0.216	0.228	0.217	0.217	0.226	0.228	0.222	2.47
69)		Atrazine	0.169	0.170	0.179	0.167	0.160	0.164	0.153	0.166	4.97
70)	C	Pentachlorophenol		0.113	0.136	0.139	0.141	0.152	0.155	0.139	10.85
71)		Phenanthrene	0.974	0.939	0.997	0.943	0.940	0.972	0.858	0.946	4.68
72)		Anthracene	0.978	0.940	0.992	0.942	0.932	0.966	0.858	0.944	4.62
73)		Carbazole	0.997	0.957	1.014	0.954	0.948	0.981	0.865	0.960	5.00
74)		Di-n-butylphth...	1.229	1.238	1.351	1.293	1.201	1.100	0.883	1.185	13.01
75)	C	Fluoranthene	1.174	1.129	1.193	1.135	1.133	1.077	0.888	1.104	9.24
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.314	0.321	0.247	0.986	0.671	0.421	1.059	0.574	58.44
78)		Pyrene	1.319	1.287	1.390	1.340	1.324	1.264	1.086	1.287	7.57
79)	S	Terphenyl-d14	1.118	1.095	1.167	0.935	0.827	0.747	0.616	0.929	22.49
80)		Butylbenzylpht...	0.399	0.472	0.577	0.612	0.634	0.682	0.700	0.582	18.96
81)		Benzo(a)anthra...	1.308	1.268	1.335	1.286	1.275	1.222	1.062	1.251	7.23
82)		3,3'-Dichlorob...	0.410	0.427	0.466	0.487	0.482	0.472	0.519	0.466	7.91
83)		Chrysene	1.215	1.163	1.233	1.188	1.179	1.126	0.951	1.151	8.23
84)		Bis(2-ethylhex...	0.764	0.844	0.972	0.986	1.001	0.980	0.847	0.913	10.25
85)	c	Di-n-octyl pht...	1.312	1.429	1.643	1.646	1.473	1.345	1.088	1.420	13.83

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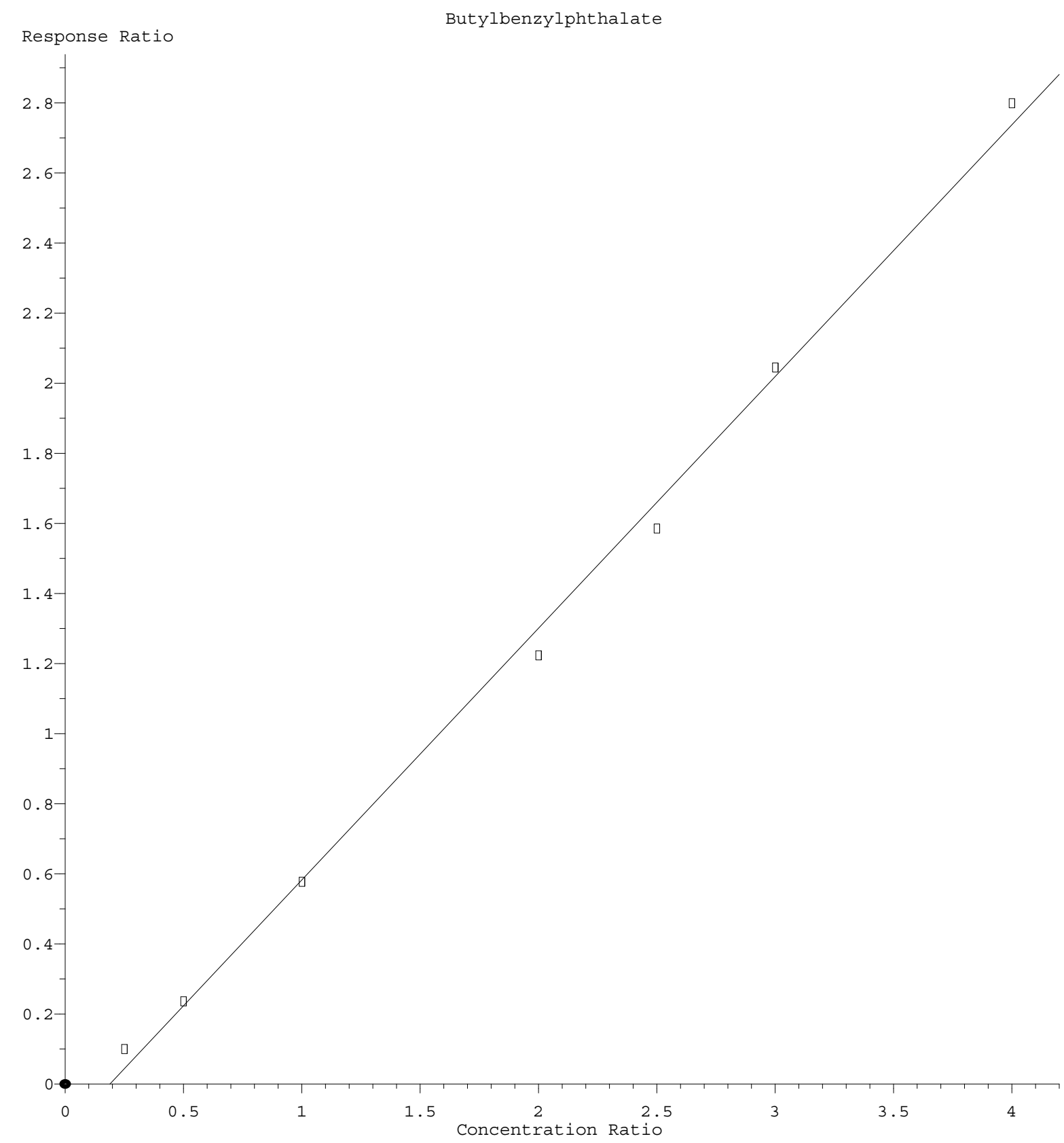
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.284	1.249	1.338	1.296	1.289	1.291	1.230	1.282	2.69
88)		Benzo(b)fluora...	1.131	1.149	1.209	1.148	1.162	1.231	1.171	1.171	3.06
89)		Benzo(k)fluora...	1.109	1.052	1.134	1.123	1.128	1.139	1.074	1.108	2.97
90)	C	Benzo(a)pyrene	0.995	0.974	1.043	1.018	1.029	1.069	1.074	1.029	3.57
91)		Dibenzo(a,h)an...	1.077	1.035	1.110	1.071	1.066	1.072	1.017	1.064	2.82
92)		Benzo(g,h,i)pe...	1.066	1.023	1.094	1.051	1.041	1.023	0.976	1.039	3.59

(#) = Out of Range



Response = 7.182e-001 * Amt - 1.361e-001
Coef of Det (r^2) = 0.996744 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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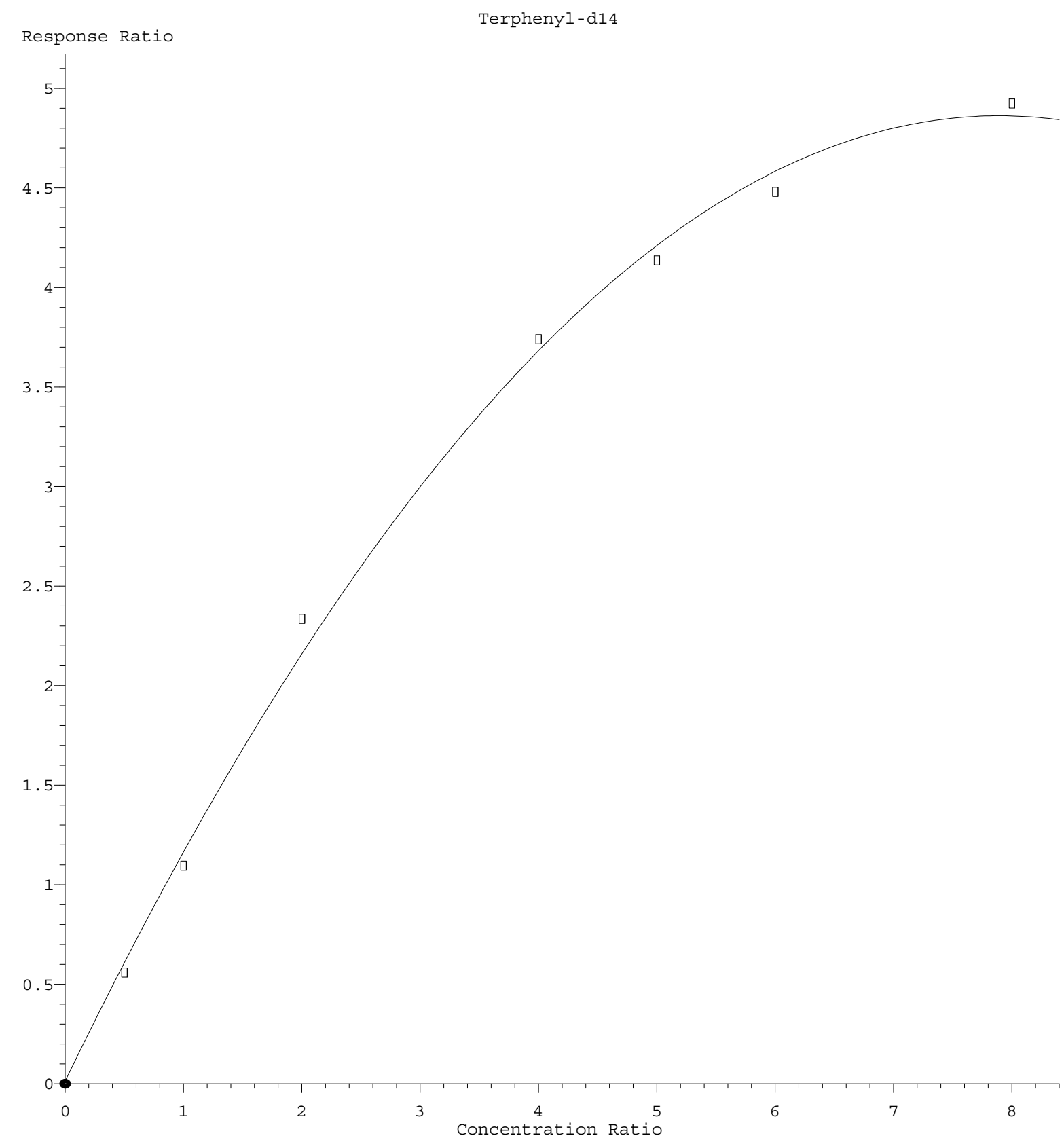

R = -7.782e-002 A*A + 1.228e+000 A + 1.353e-002
Coef of Det (r^2) = 0.996528 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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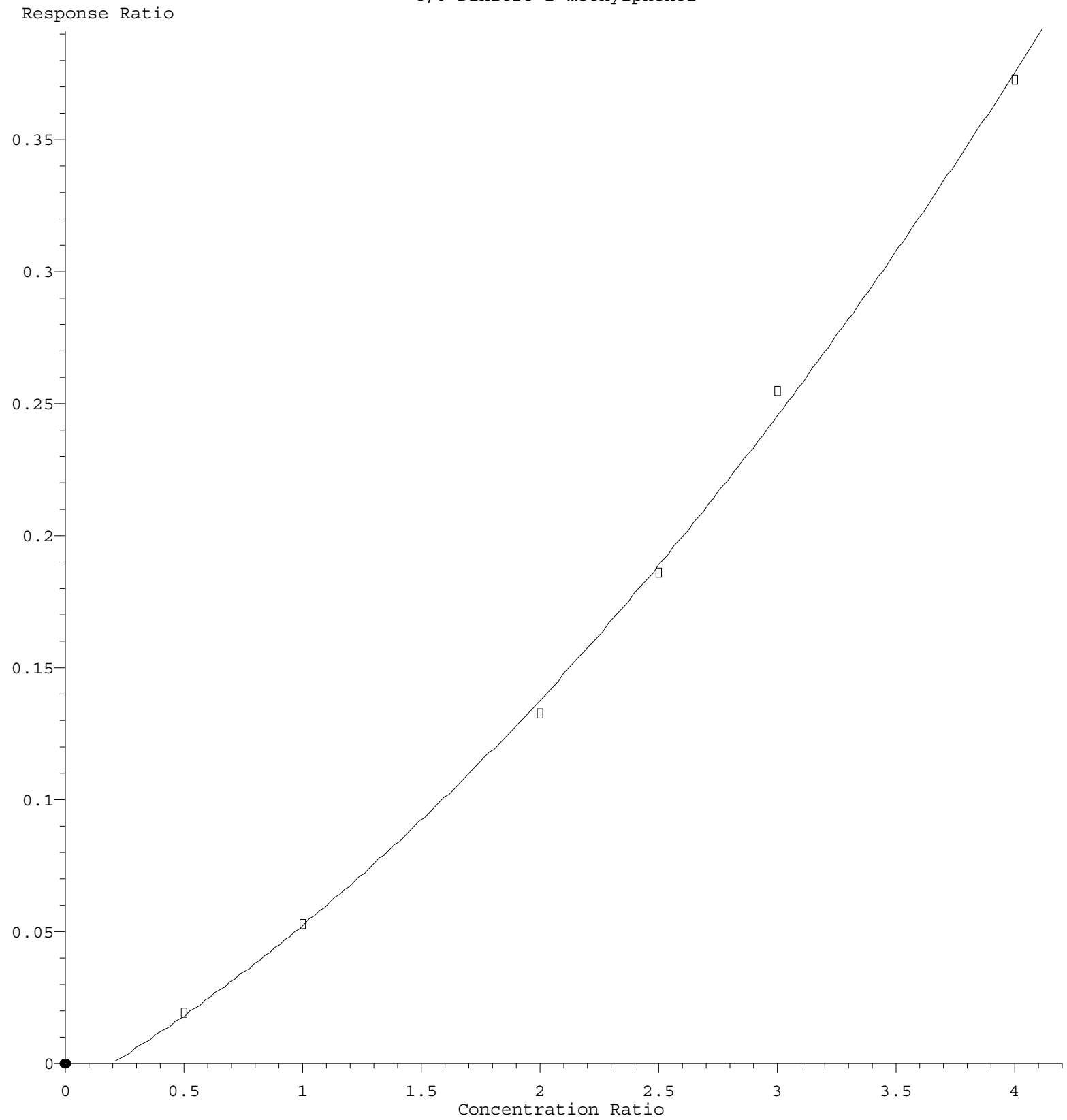
4,6-Dinitro-2-methylphenol



R = 1.119e-002 A*A + 5.179e-002 A - 1.056e-002
Coef of Det (r^2) = 0.998488 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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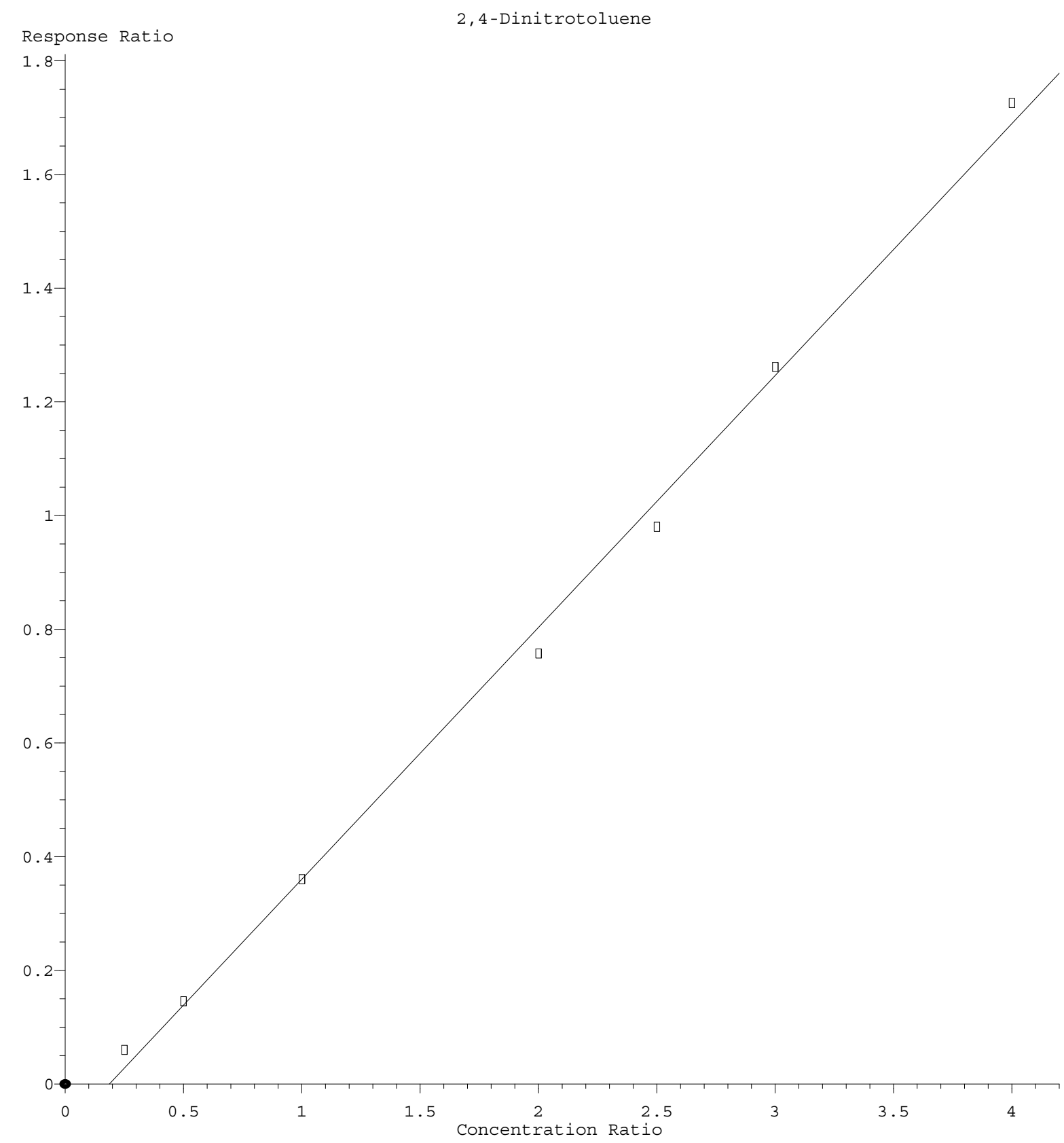

Response = 4.429e-001 * Amt - 8.265e-002
Coef of Det (r^2) = 0.997024 Curve Fit: Linear
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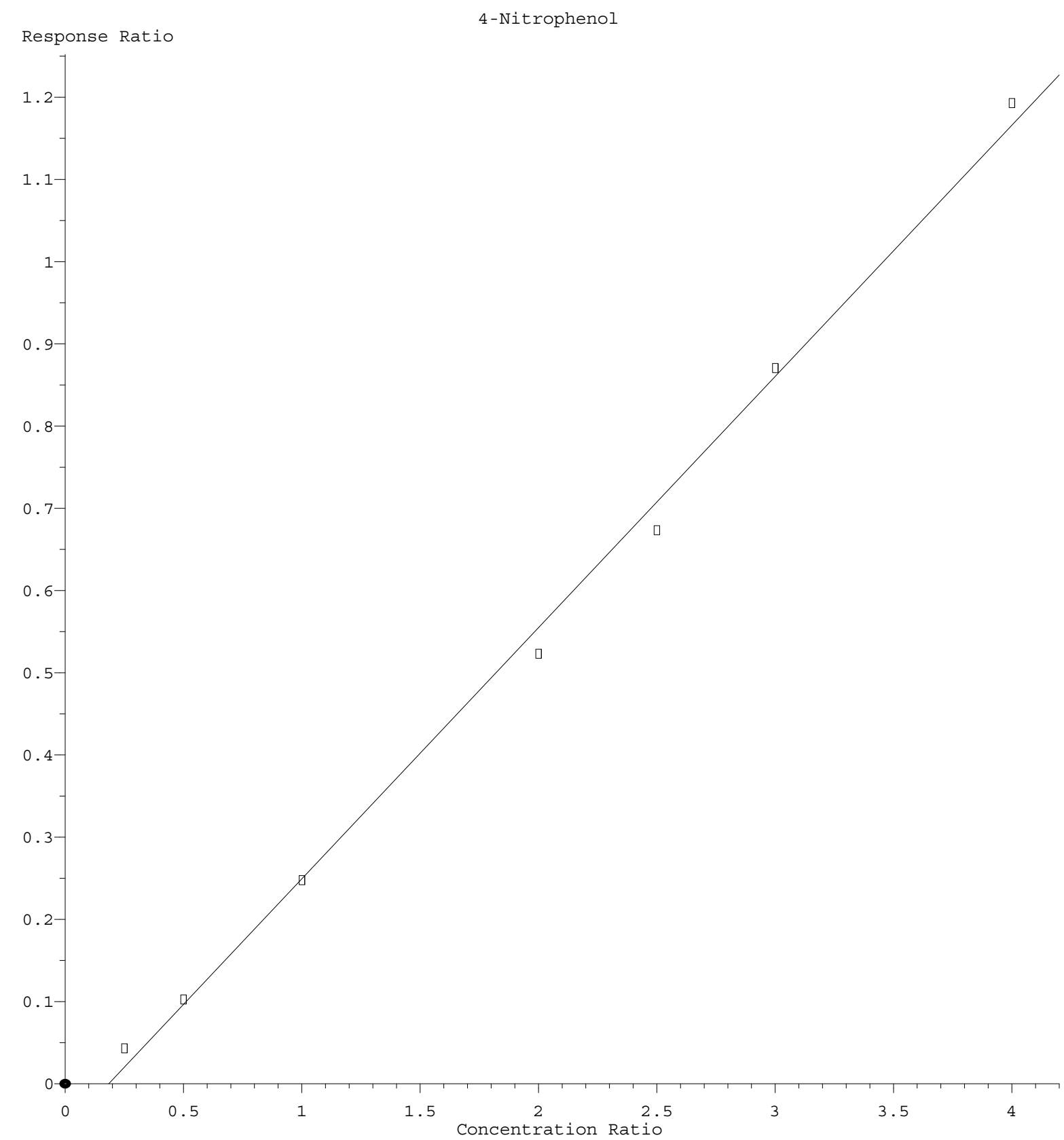

Response = 3.055e-001 * Amt - 5.633e-002
Coef of Det (r^2) = 0.996665 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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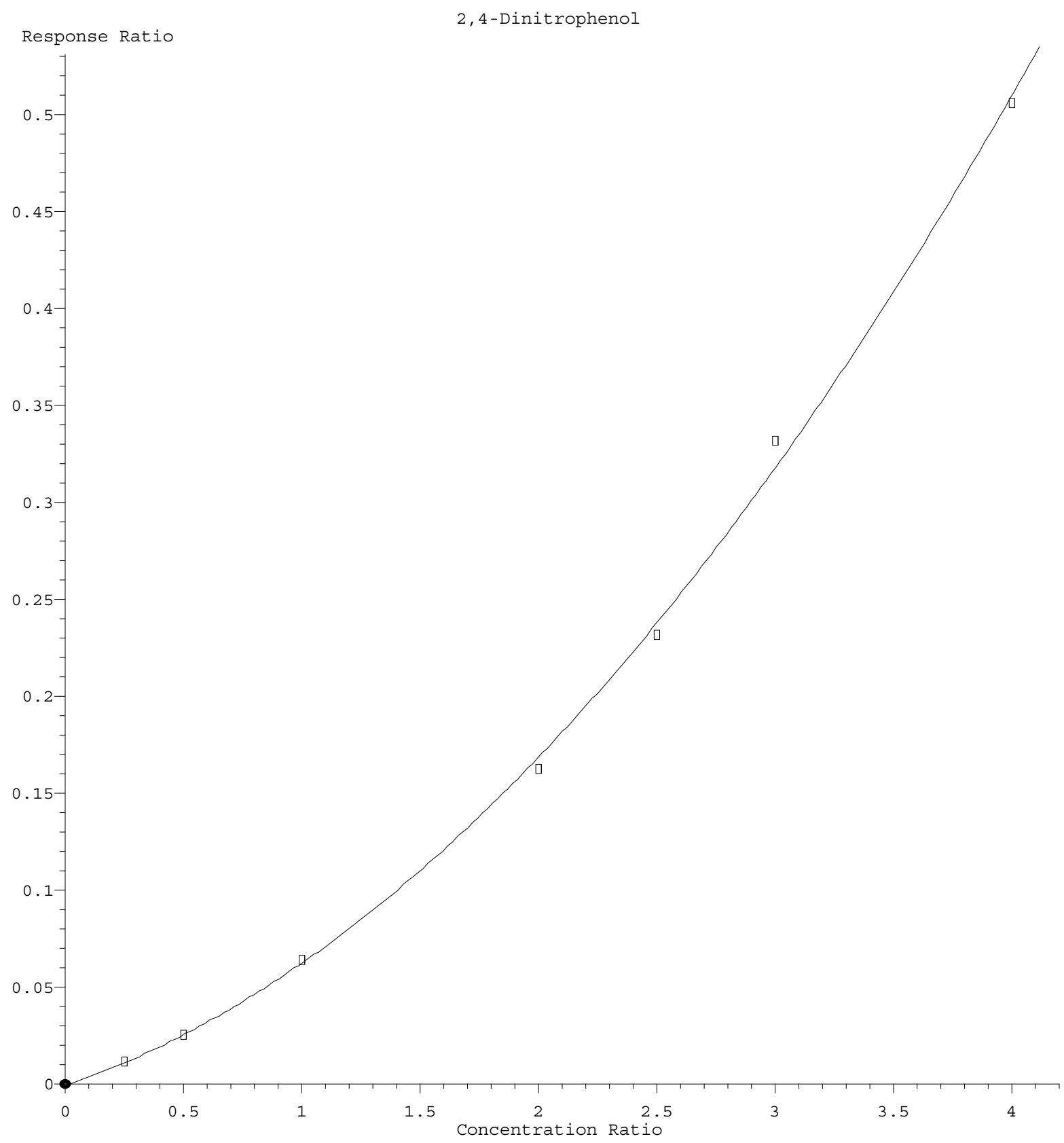

R = 2.149e-002 A*A + 4.173e-002 A - 8.440e-004
Coef of Det (r^2) = 0.998538 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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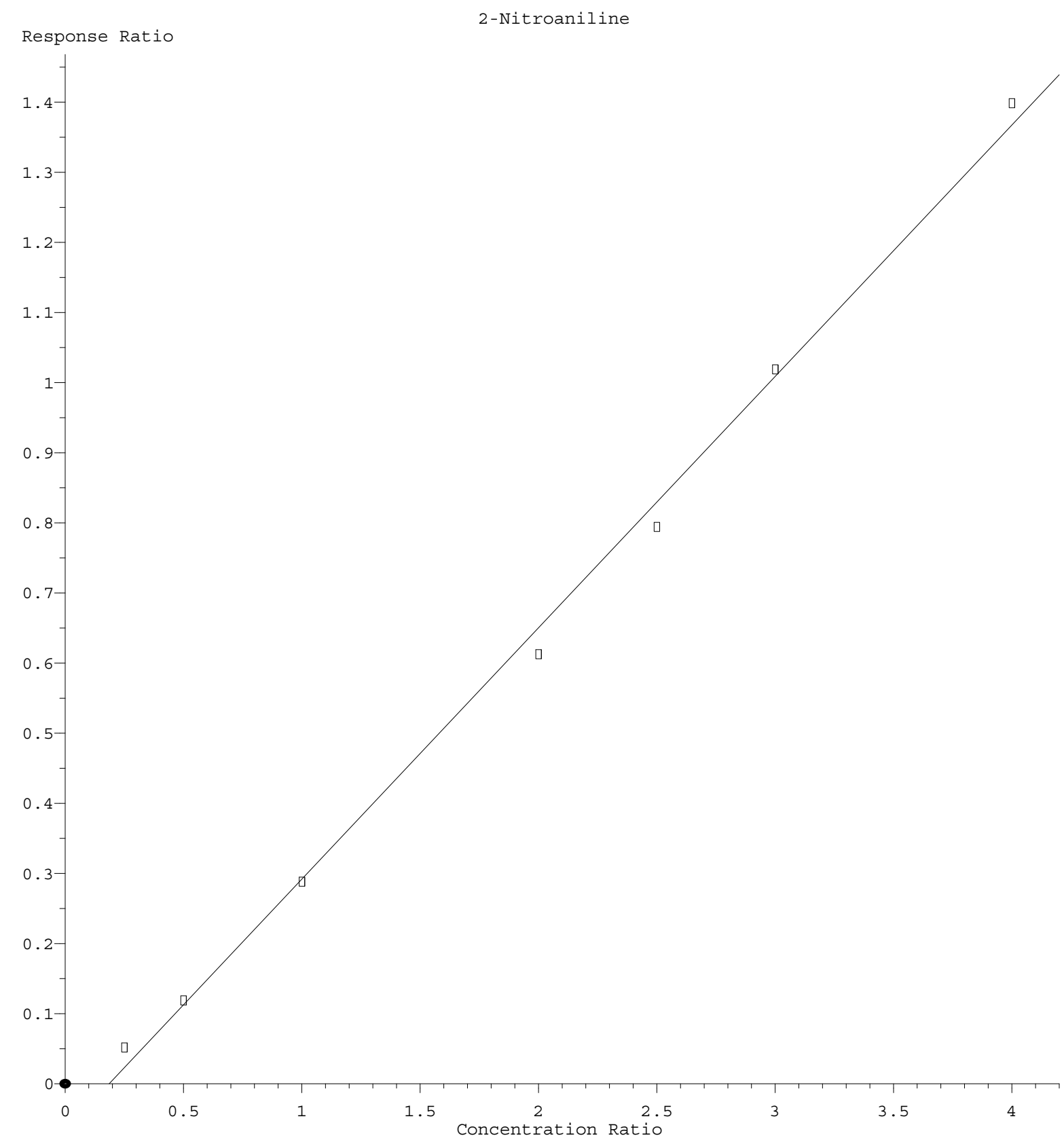

Response = 3.584e-001 * Amt - 6.649e-002
Coef of Det (r^2) = 0.996870 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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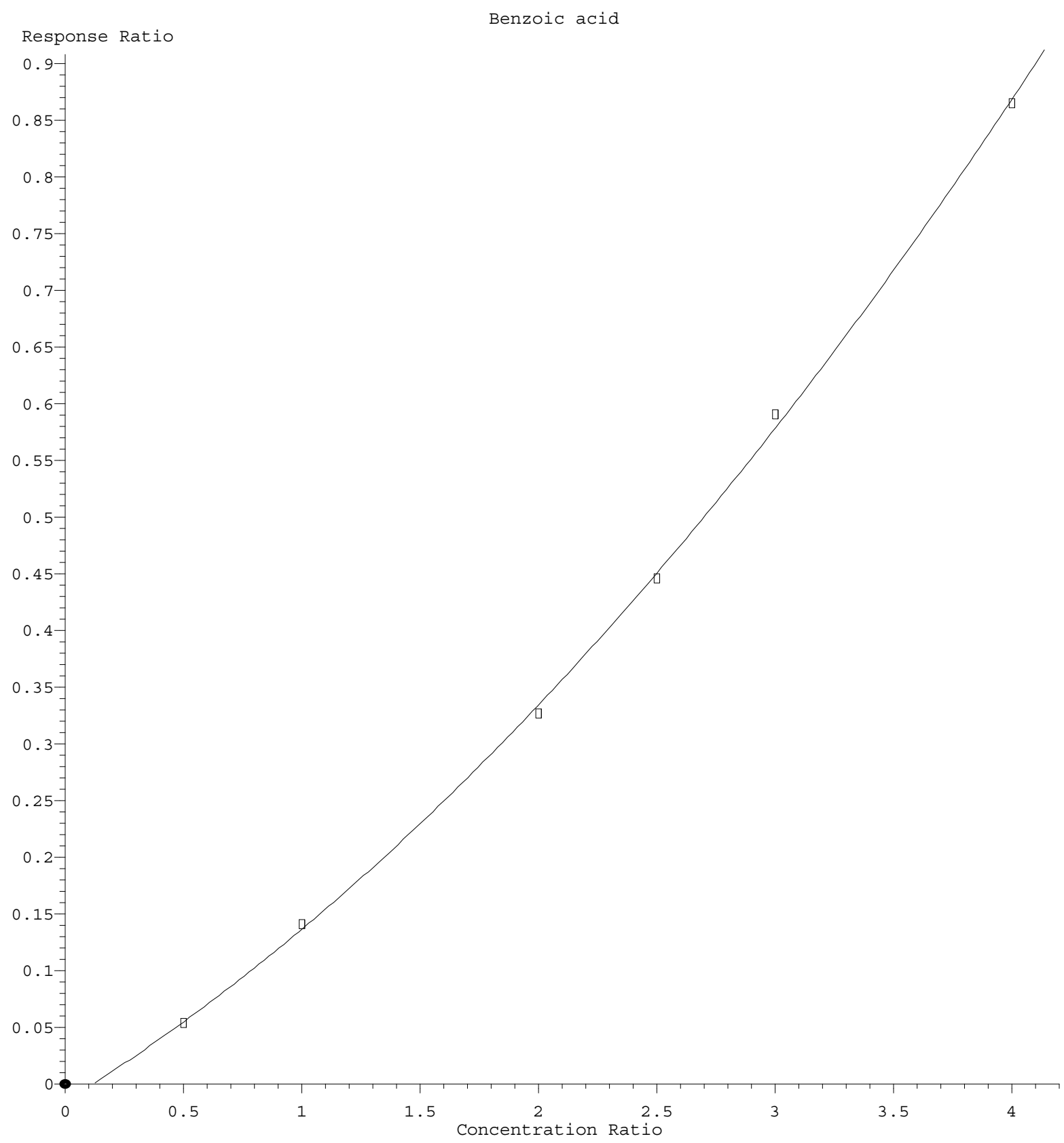

R = 2.301e-002 A*A + 1.289e-001 A - 1.544e-002
Coef of Det (r^2) = 0.999414 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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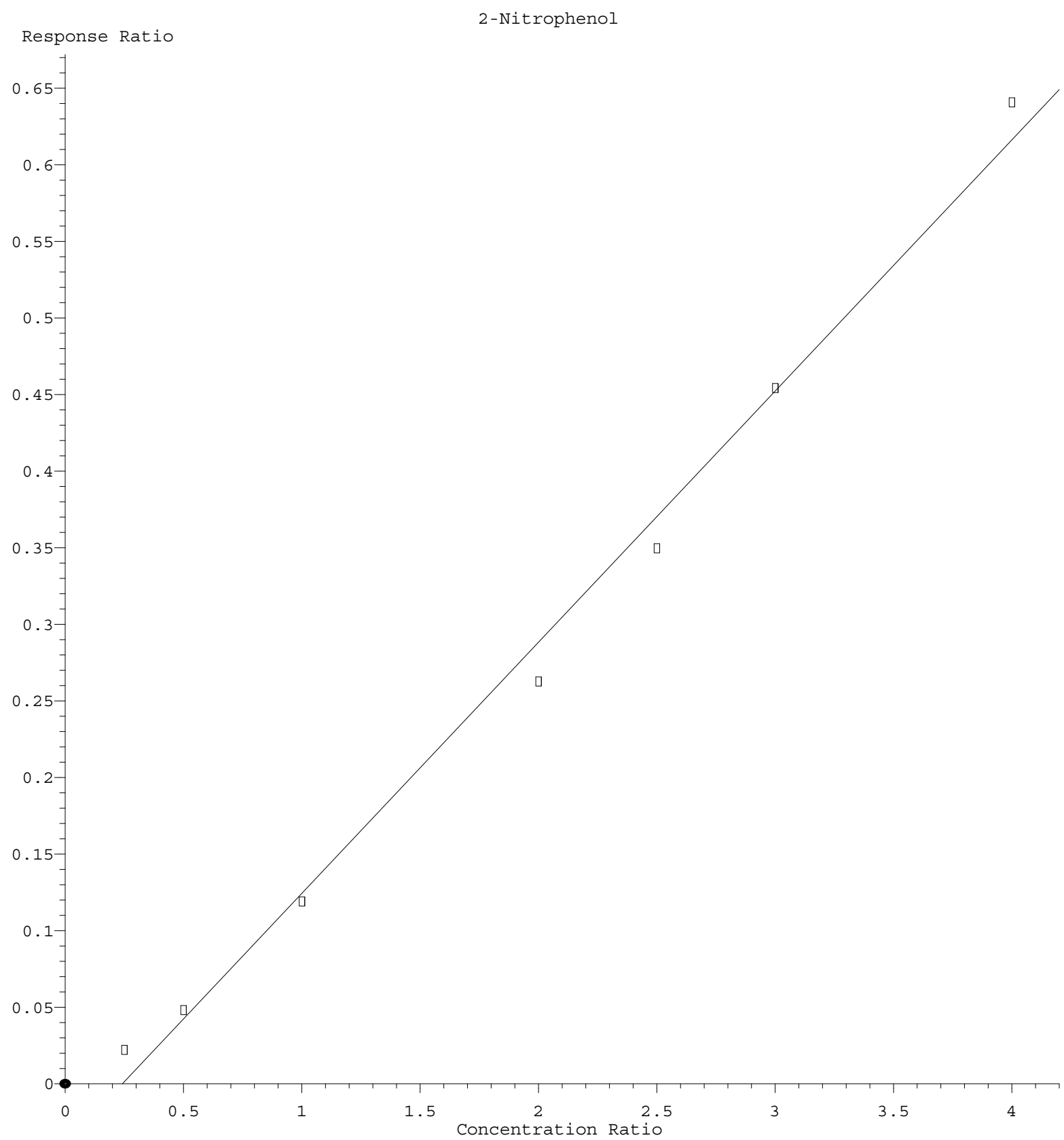

Response = 1.641e-001 * Amt - 3.963e-002
Coef of Det (r^2) = 0.992982 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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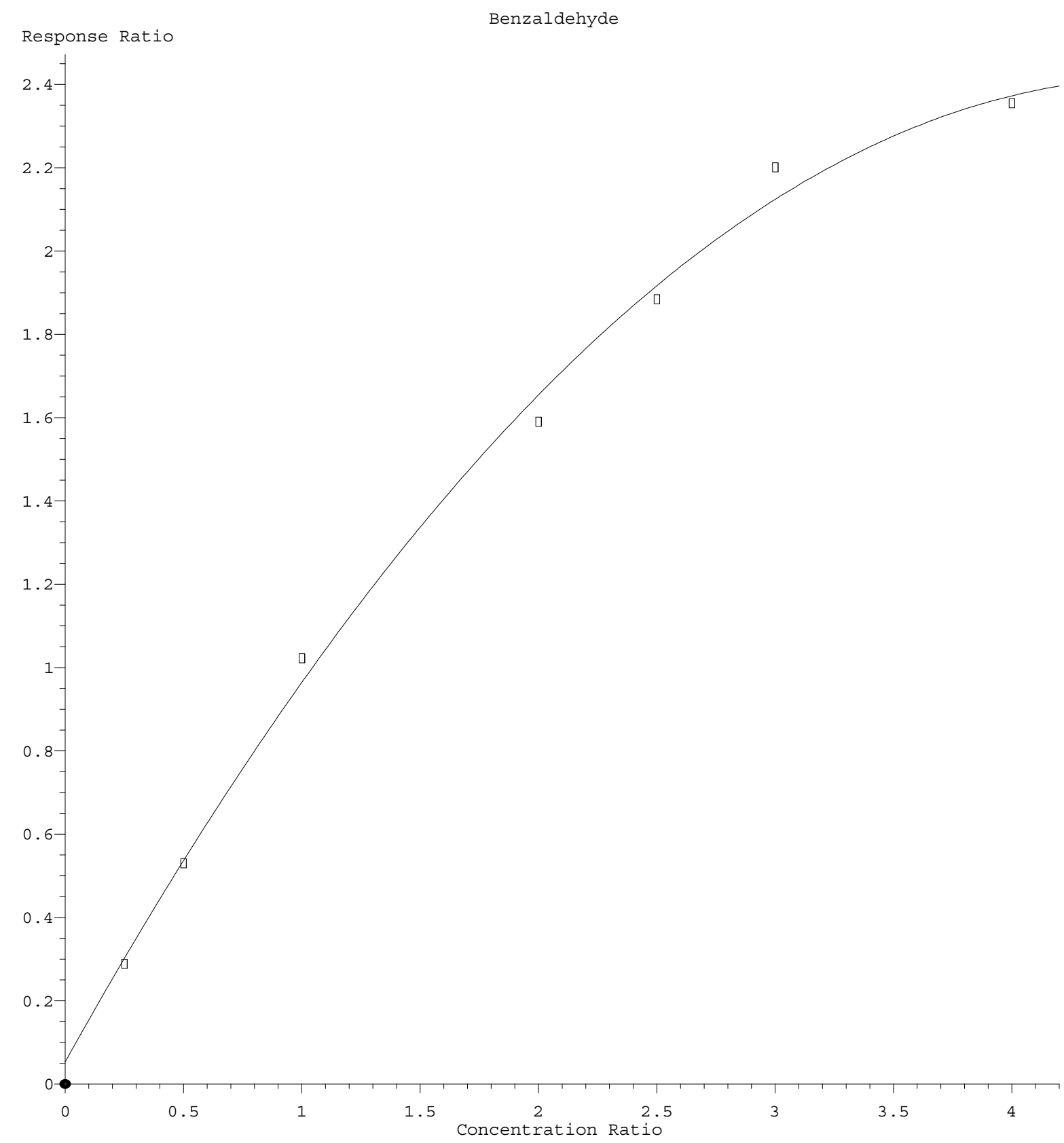

R = -1.104e-001 A*A + 1.021e+000 A + 5.336e-002
Coef of Det (r^2) = 0.996209 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM050824.M
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