Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF041123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Apr 12 03:34:19 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF132845.D 5 =BF132846.D 10 =BF132847.D 20 =BF132848.D 40 =BF132849.D 50 =BF132850.D 60 =BF132851.D 80 =BF1328
52.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.002	0.002	0.000	0.000	0.000	0.001	0.000	0.001	101.66
3)		Pyridine		1.774	1.806	1.890	1.772	1.688	1.765	1.675	1.767	4.10
4)		n-Nitrosodimet...		0.902	0.872	0.907	0.850	0.812	0.843	0.789	0.854	5.13
5)	S	2-Fluorophenol		1.439	1.372	1.402	1.267	1.191	1.217	1.124	1.287	9.23
6)		Aniline		2.266	2.167	2.306	2.133	2.043	2.131	1.977	2.146	5.39
7)	S	Phenol-d6		1.886	1.775	1.799	1.628	1.518	1.565	1.452	1.660	9.74
8)		2-Chlorophenol		1.459	1.391	1.408	1.278	1.181	1.219	1.128	1.295	9.77
9)		Benzaldehyde			1.227	1.165	0.893	0.860	0.837		0.997	18.52
10)	C	Phenol		2.102	1.973	2.050	1.838	1.723	1.778	1.623	1.870	9.48
11)		bis(2-Chloroet...		1.597	1.501	1.505	1.350	1.265	1.297	1.186	1.386	10.85
12)		1,3-Dichlorobe...		1.651	1.551	1.556	1.412	1.310	1.315	1.207	1.429	11.30
13)	C	1,4-Dichlorobe...		1.708	1.565	1.570	1.410	1.308	1.321	1.200	1.440	12.50
14)		1,2-Dichlorobe...		1.655	1.509	1.488	1.300	1.194	1.212	1.111	1.353	14.79
15)		Benzyl Alcohol		1.087	1.089	1.163	1.093	1.036	1.083	1.005	1.080	4.59
16)		2,2'-oxybis(1-...		2.595	2.466	2.522	2.308	2.148	2.186	1.973	2.314	9.75
17)		2-Methylphenol		1.294	1.227	1.275	1.161	1.102	1.146	1.060	1.181	7.45
18)		Hexachloroethane		0.566	0.532	0.536	0.490	0.461	0.463	0.422	0.496	10.32
19)	P	n-Nitroso-di-n...	0.894	0.995	0.979	1.026	0.943	0.903	0.941	0.882	0.945	5.47
20)		3+4-Methylphenols		1.611	1.571	1.594	1.363	1.275	1.289	1.174	1.411	12.62
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.563	0.523	0.514	0.452	0.424	0.438	0.404	0.474	12.45
23)	S	Nitrobenzene-d5		0.422	0.398	0.411	0.380	0.364	0.374	0.356	0.387	6.35
24)		Nitrobenzene		0.419	0.401	0.420	0.387	0.371	0.384	0.359	0.392	5.92
25)		Isophorone		0.720	0.687	0.717	0.685	0.659	0.694	0.662	0.689	3.48
26)	C	2-Nitrophenol		0.119	0.121	0.140	0.145	0.145	0.154	0.153	0.140	10.12
27)		2,4-Dimethylph...		0.293	0.287	0.295	0.280	0.271	0.280	0.269	0.282	3.63
28)		bis(2-Chloroet...		0.451	0.417	0.434	0.405	0.385	0.394	0.376	0.409	6.55
29)	C	2,4-Dichloroph...		0.277	0.267	0.282	0.269	0.257	0.267	0.257	0.268	3.49
30)		1,2,4-Trichlor...		0.337	0.305	0.314	0.292	0.275	0.282	0.267	0.296	8.21
31)		Naphthalene		1.204	1.110	1.098	0.986	0.923	0.942	0.882	1.021	11.57
32)		Benzoic acid			0.072	0.096	0.119	0.134	0.144	0.144	0.118	24.52
33)		4-Chloroaniline		0.431	0.417	0.433	0.404	0.378	0.397	0.378	0.405	5.60
34)	C	Hexachlorobuta...		0.179	0.166	0.170	0.160	0.151	0.156	0.145	0.161	7.27
35)		Caprolactam			0.051	0.065	0.071	0.075	0.083	0.082	0.071	16.81
36)	C	4-Chloro-3-met...		0.292	0.283	0.300	0.287	0.273	0.289	0.277	0.286	3.25
37)		2-Methylnaphth...		0.794	0.743	0.740	0.664	0.624	0.629	0.584	0.683	11.32
38)		1-Methylnaphth...		0.755	0.691	0.683	0.608	0.577	0.588	0.553	0.637	11.61

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Method File : 8270-BF041123.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.643	0.583	0.591	0.544	0.510	0.530	0.507	0.558	8.92
41)	P	Hexachlorocycl...	0.295	0.282	0.313	0.314	0.298	0.308	0.293	0.301	3.92
42)	S	2,4,6-Tribromo...	0.168	0.161	0.177	0.183	0.177	0.191	0.187	0.178	5.91
43)	C	2,4,6-Trichlor...	0.347	0.339	0.352	0.344	0.331	0.348	0.339	0.343	2.05
44)		2,4,5-Trichlor...	0.418	0.388	0.425	0.408	0.396	0.407	0.393	0.405	3.39
45)	S	2-Fluorobiphenyl		1.491	1.429	1.260	1.144	1.173	1.088	1.264	12.87
46)		1,1'-Biphenyl	1.925	1.757	1.724	1.561	1.459	1.486	1.373	1.612	12.17
47)		2-Chloronaphth...	1.374	1.249	1.248	1.143	1.085	1.106	1.056	1.180	9.70
48)		2-Nitroaniline	0.236	0.263	0.318	0.346	0.340	0.365	0.358	0.318	15.64
49)		Acenaphthylene	2.190	2.044	2.049	1.867	1.736	1.776	1.690	1.908	9.89
50)		Dimethylphthalate	1.345	1.305	1.361	1.304	1.231	1.270	1.226	1.291	4.05
51)		2,6-Dinitrotol...	0.289	0.282	0.307	0.296	0.288	0.308	0.292	0.295	3.35
52)	C	Acenaphthene	1.400	1.308	1.310	1.193	1.123	1.152	1.093	1.226	9.36
53)		3-Nitroaniline	0.297	0.315	0.363	0.357	0.342	0.365	0.349	0.341	7.60
54)	P	2,4-Dinitrophenol		0.094	0.113	0.129	0.128	0.141	0.142	0.125	14.59
55)		Dibenzofuran	2.035	1.862	1.883	1.672	1.579	1.611	1.519	1.737	10.98
56)	P	4-Nitrophenol	0.251	0.246	0.273	0.278	0.267	0.289	0.277	0.269	5.74
57)		2,4-Dinitrotol...	0.310	0.336	0.380	0.385	0.374	0.393	0.385	0.366	8.50
58)		Fluorene	1.545	1.417	1.392	1.219	1.137	1.161	1.099	1.282	13.22
59)		2,3,4,6-Tetrac...	0.317	0.296	0.315	0.307	0.301	0.317	0.306	0.308	2.66
60)		Diethylphthalate	0.989	1.007	1.144	1.156	1.106	1.171	1.112	1.098	6.58
61)		4-Chlorophenyl...	0.739	0.652	0.656	0.585	0.546	0.558	0.533	0.610	12.34
62)		4-Nitroaniline	0.274	0.290	0.336	0.340	0.338	0.357	0.344	0.326	9.50
63)		Azobenzene	1.620	1.503	1.532	1.405	1.316	1.360	1.274	1.430	8.76
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.071	0.088	0.099	0.098	0.104	0.104	0.094	13.41
66)	c	n-Nitrosodiphe...	0.672	0.630	0.635	0.612	0.576	0.590	0.557	0.610	6.44
67)		4-Bromophenyl-...	0.234	0.211	0.221	0.214	0.201	0.205	0.199	0.212	5.74
68)		Hexachlorobenzene	0.240	0.226	0.228	0.219	0.208	0.212	0.205	0.220	5.71
69)		Atrazine	0.119	0.131	0.155	0.161	0.159	0.165	0.159	0.150	11.78
70)	C	Pentachlorophenol	0.136	0.135	0.147	0.149	0.147	0.152	0.147	0.145	4.58
71)		Phenanthrene	1.282	1.190	1.178	1.073	0.992	1.004	0.960	1.097	11.05
72)		Anthracene	1.307	1.199	1.199	1.102	1.034	1.029	0.981	1.121	10.47
73)		Carbazole	1.090	1.036	1.048	0.972	0.914	0.923	0.884	0.981	8.00
74)		Di-n-butylphth...	0.258	0.357	0.572	0.745	0.781	0.853	0.840	0.629	38.16
75)	C	Fluoranthene	1.207	1.153	1.154	1.094	1.033	1.043	1.003	1.098	6.90
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.045	0.059	0.086	0.127	0.172	0.211	0.224	0.132	54.68
78)		Pyrene	1.774	1.696	1.721	1.640	1.596	1.814	1.717	1.708	4.35
79)	S	Terphenyl-d14	1.239	1.163	1.165	1.103	1.086	1.200	1.123	1.154	4.71
80)		Butylbenzylpht...	0.036	0.037	0.049	0.082	0.110	0.159	0.192	0.095	64.94
81)		Benzo(a)anthra...	1.410	1.393	1.448	1.378	1.305	1.366	1.329	1.376	3.51
82)		3,3'-Dichlorob...	0.096	0.138	0.217	0.251	0.263	0.282	0.283	0.218	33.73
83)		Chrysene	1.488	1.389	1.410	1.341	1.259	1.325	1.267	1.354	6.01
84)		Bis(2-ethylhex...	0.057	0.059	0.079	0.138	0.181	0.234	0.271	0.146	59.27
85)	c	Di-n-octyl pht...		0.079	0.117	0.213	0.259	0.340	0.414	0.237	54.16#

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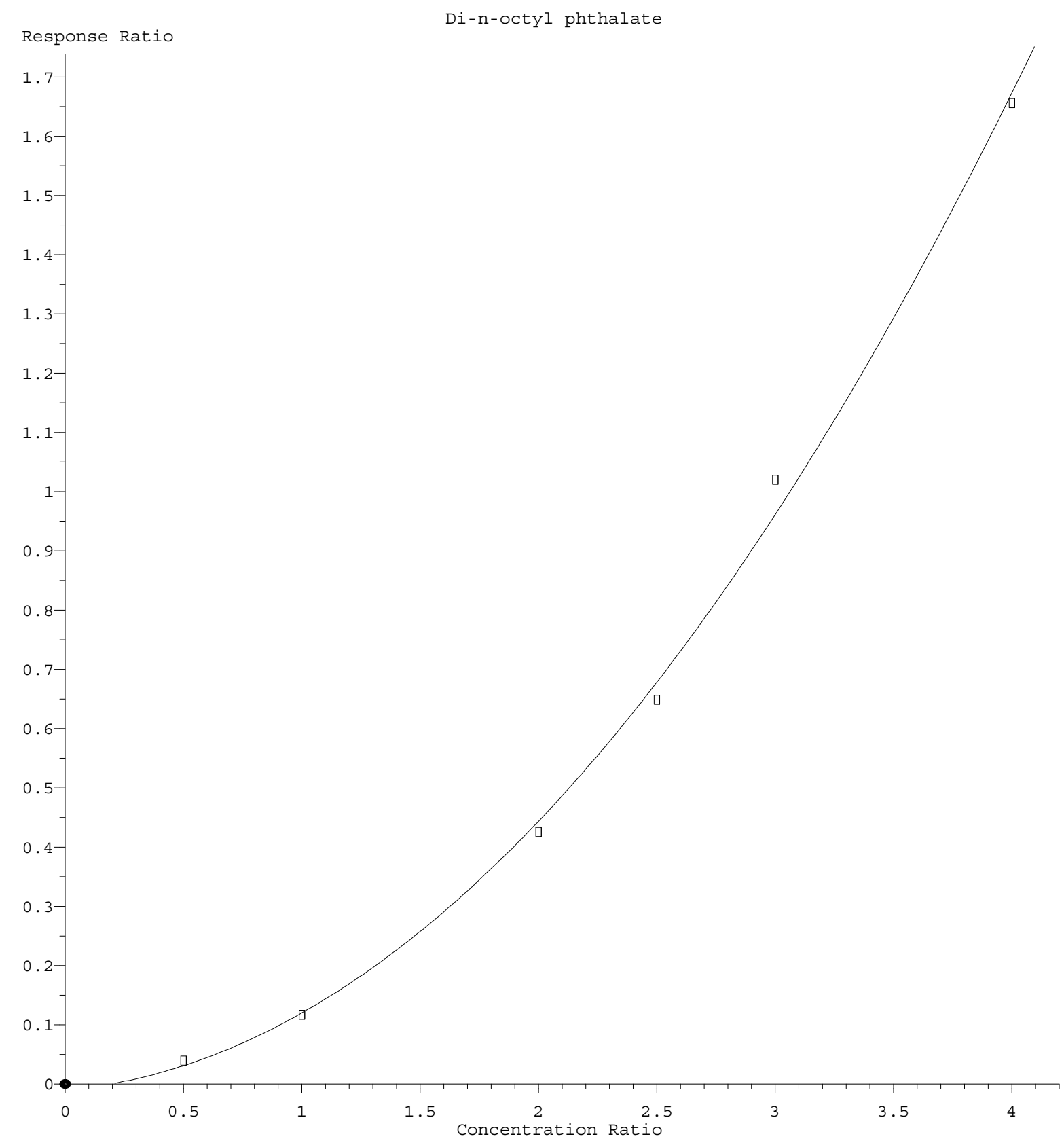
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.843	0.813	1.035	1.261	1.280	1.378	1.376	1.141	21.26
88)		Benzo(b)fluora...	1.235	1.241	1.442	1.325	1.303	1.276	1.214	1.291	5.98
89)		Benzo(k)fluora...	1.469	1.393	1.474	1.399	1.196	1.199	1.151	1.326	10.46
90)	C	Benzo(a)pyrene	1.133	1.119	1.211	1.204	1.129	1.175	1.134	1.158	3.30
91)		Dibenzo(a,h)an...	0.709	0.683	0.872	1.046	1.052	1.126	1.123	0.944	20.09
92)		Benzo(g,h,i)pe...	0.704	0.680	0.873	1.076	1.082	1.157	1.161	0.962	21.60

(#) = Out of Range



R = 9.702e-002 A*A + 3.259e-002 A - 9.726e-003
Coef of Det (r^2) = 0.997290 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041123.M
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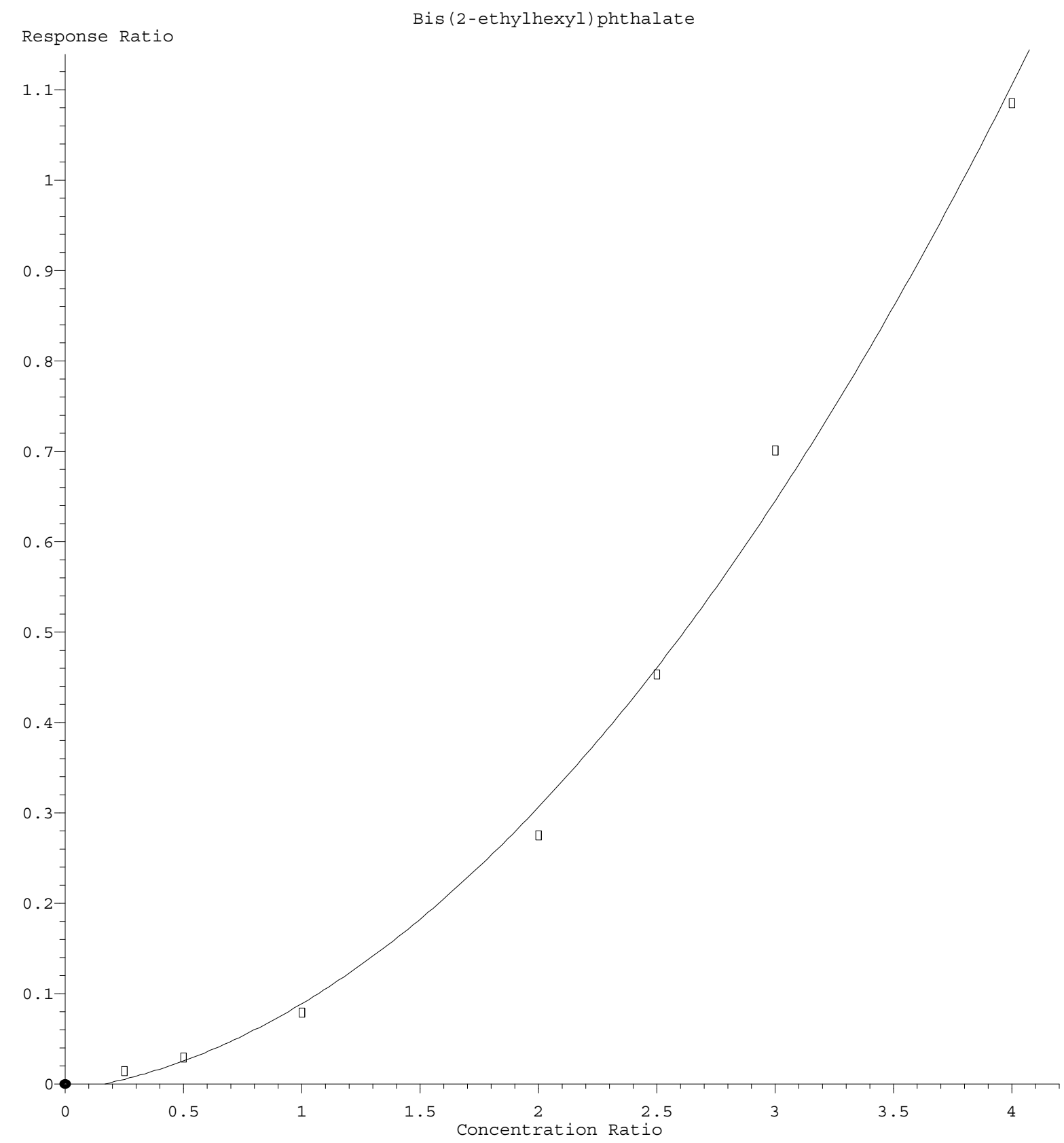

R = 6.064e-002 A*A + 3.557e-002 A - 7.407e-003
Coef of Det (r^2) = 0.995088 Curve Fit: Quadratic
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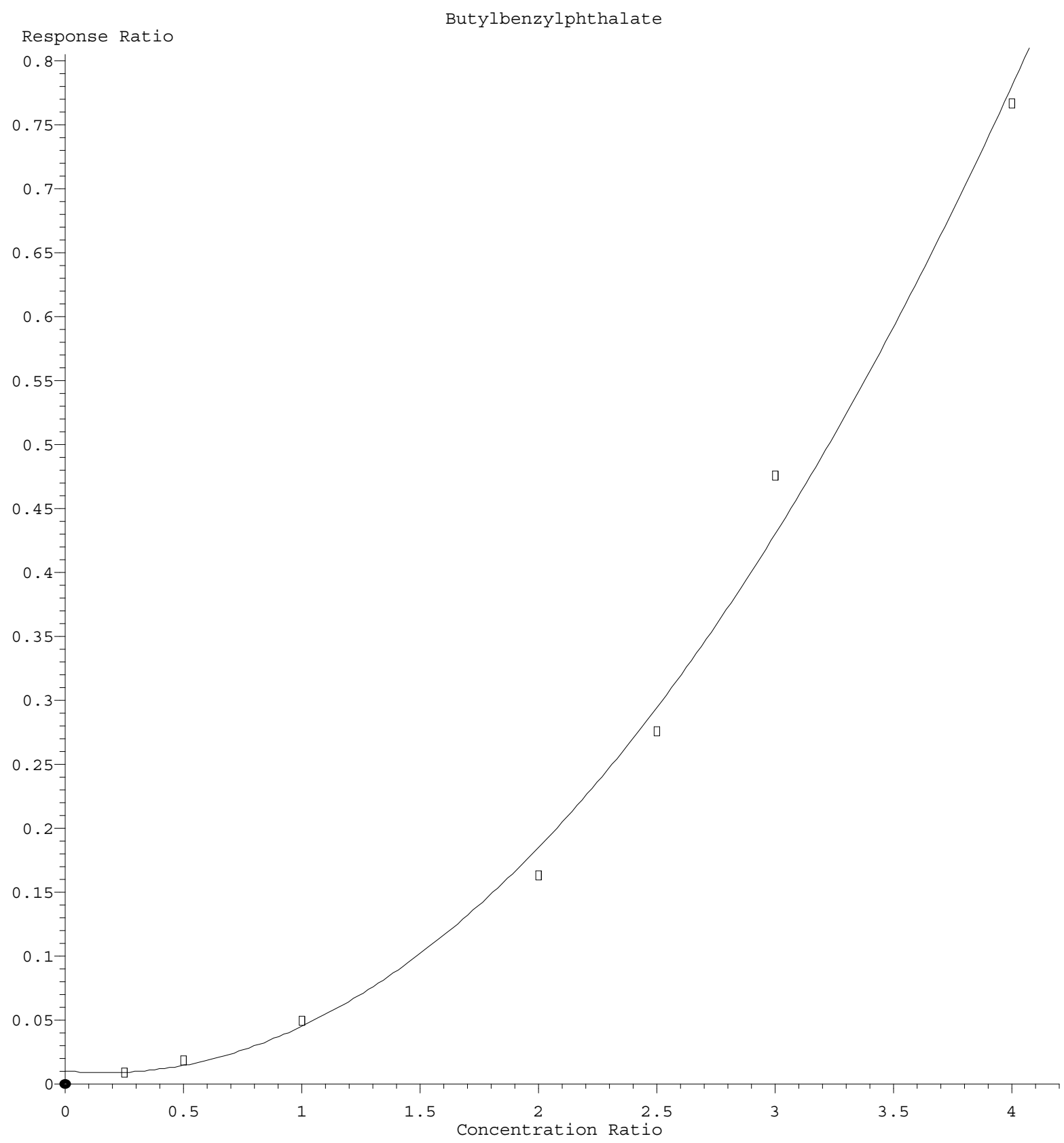

R = 5.256e-002 A*A - 1.781e-002 A + 1.033e-002
Coef of Det (r^2) = 0.993471 Curve Fit: Quadratic
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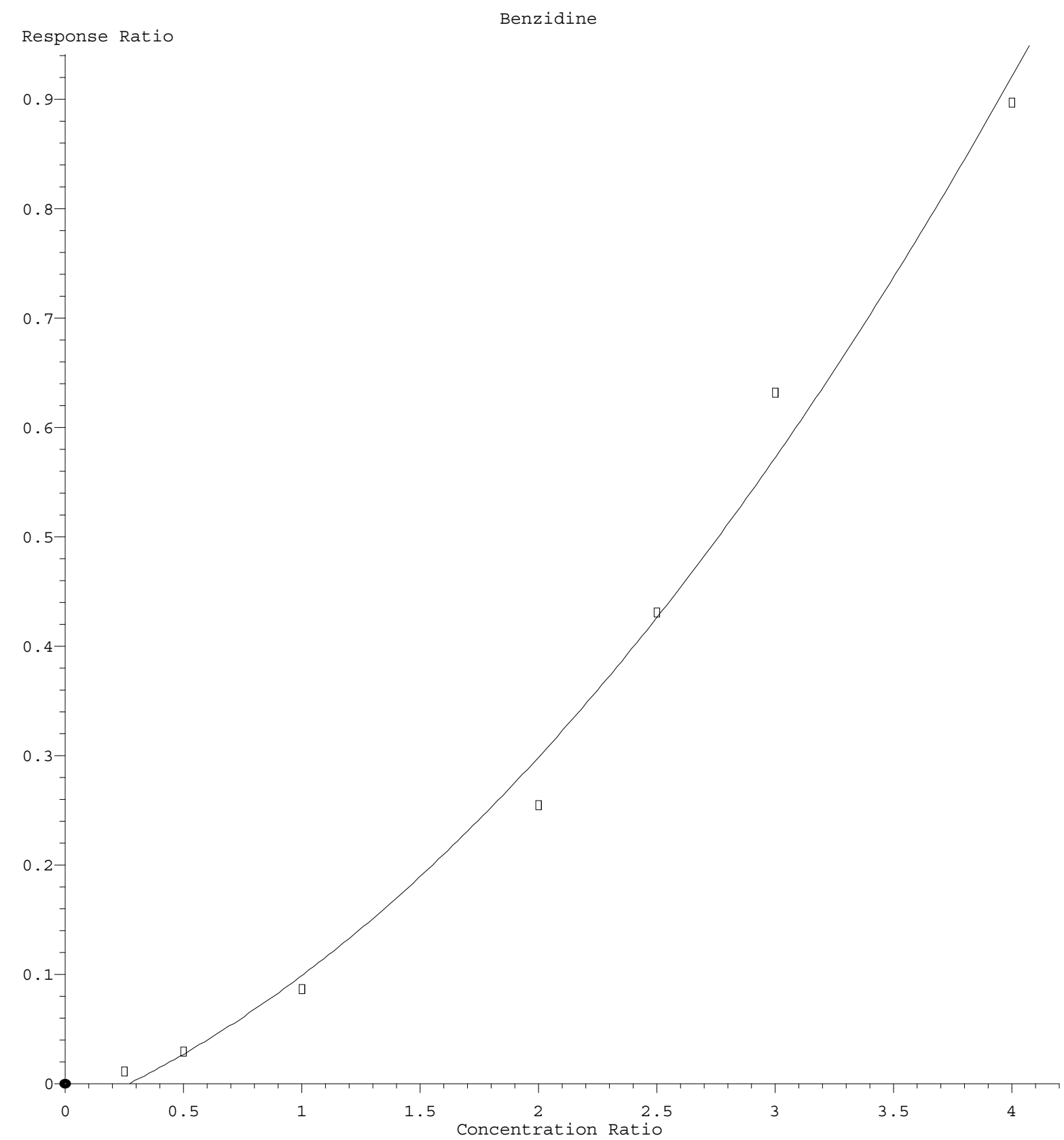
Calibration Table Last Updated: Wed Apr 12 03:34:19 2023



R = 3.715e-002 A*A + 8.813e-002 A - 2.639e-002
Coef of Det (r^2) = 0.990633 Curve Fit: Quadratic
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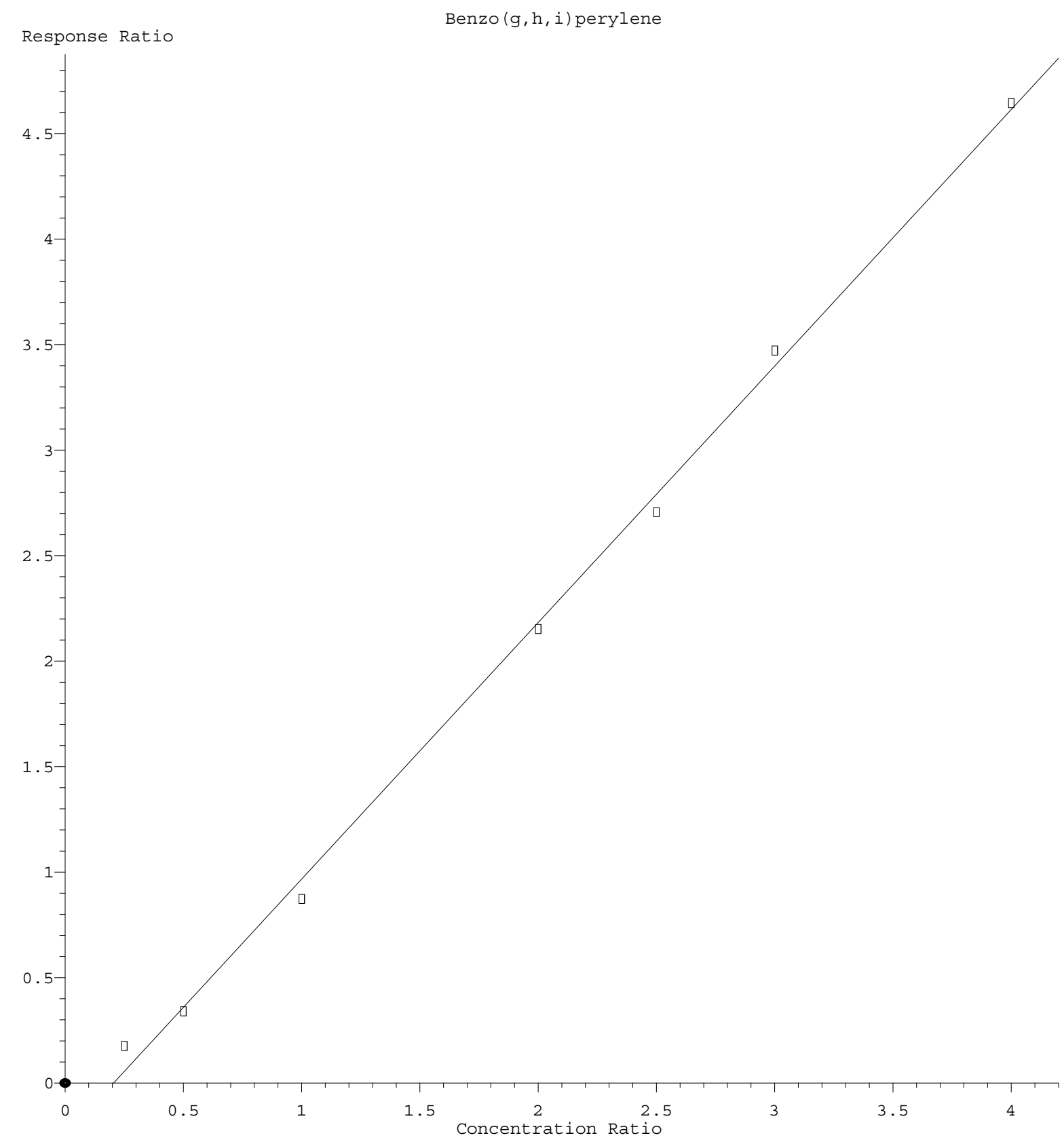
Calibration Table Last Updated: Wed Apr 12 03:34:19 2023



Response = 1.216e+000 * Amt - 2.496e-001
Coef of Det (r^2) = 0.997754 Curve Fit: Linear
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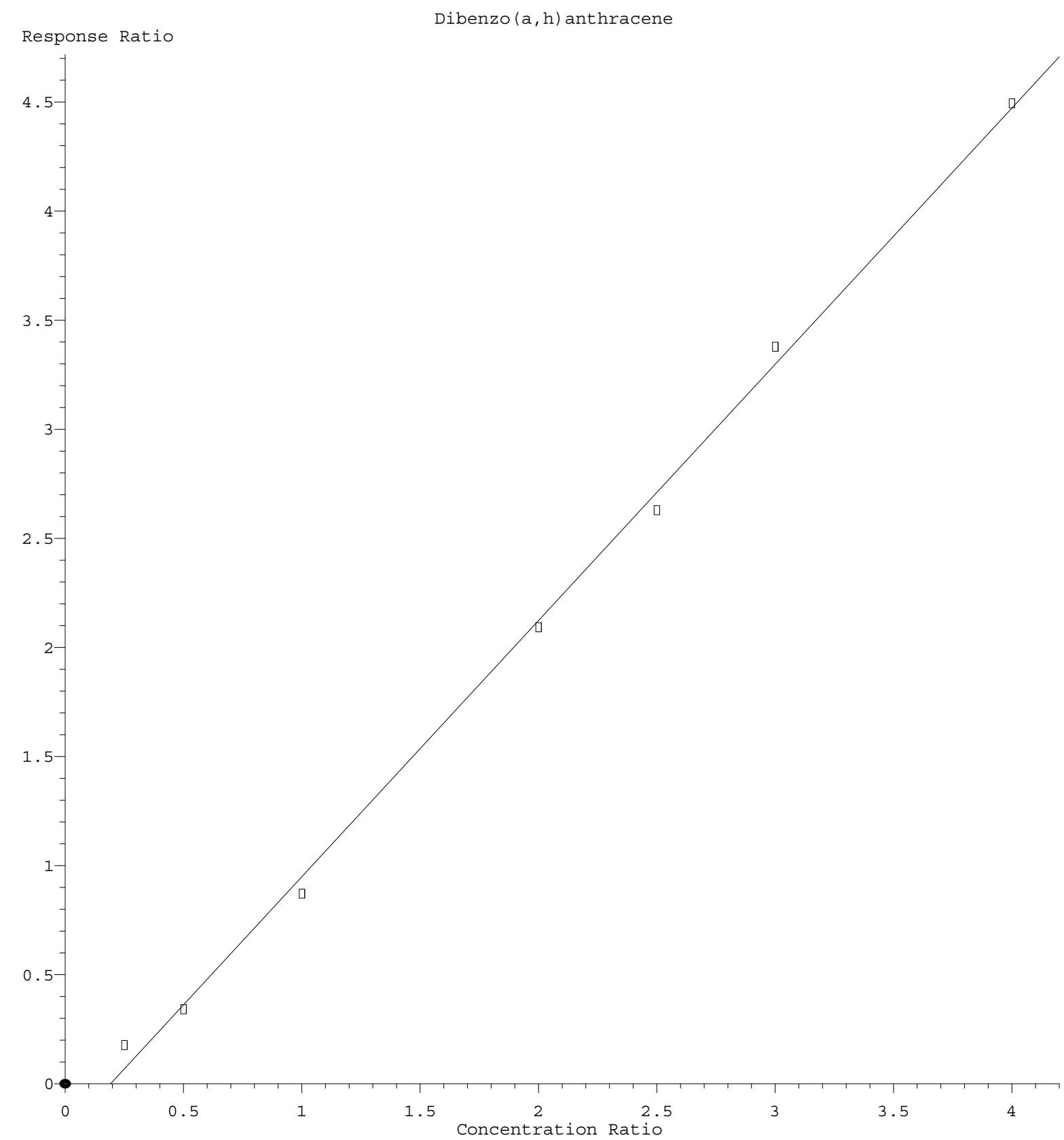
Calibration Table Last Updated: Wed Apr 12 03:34:19 2023



Response = 1.174e+000 * Amt - 2.253e-001
Coef of Det (r^2) = 0.997932 Curve Fit: Linear
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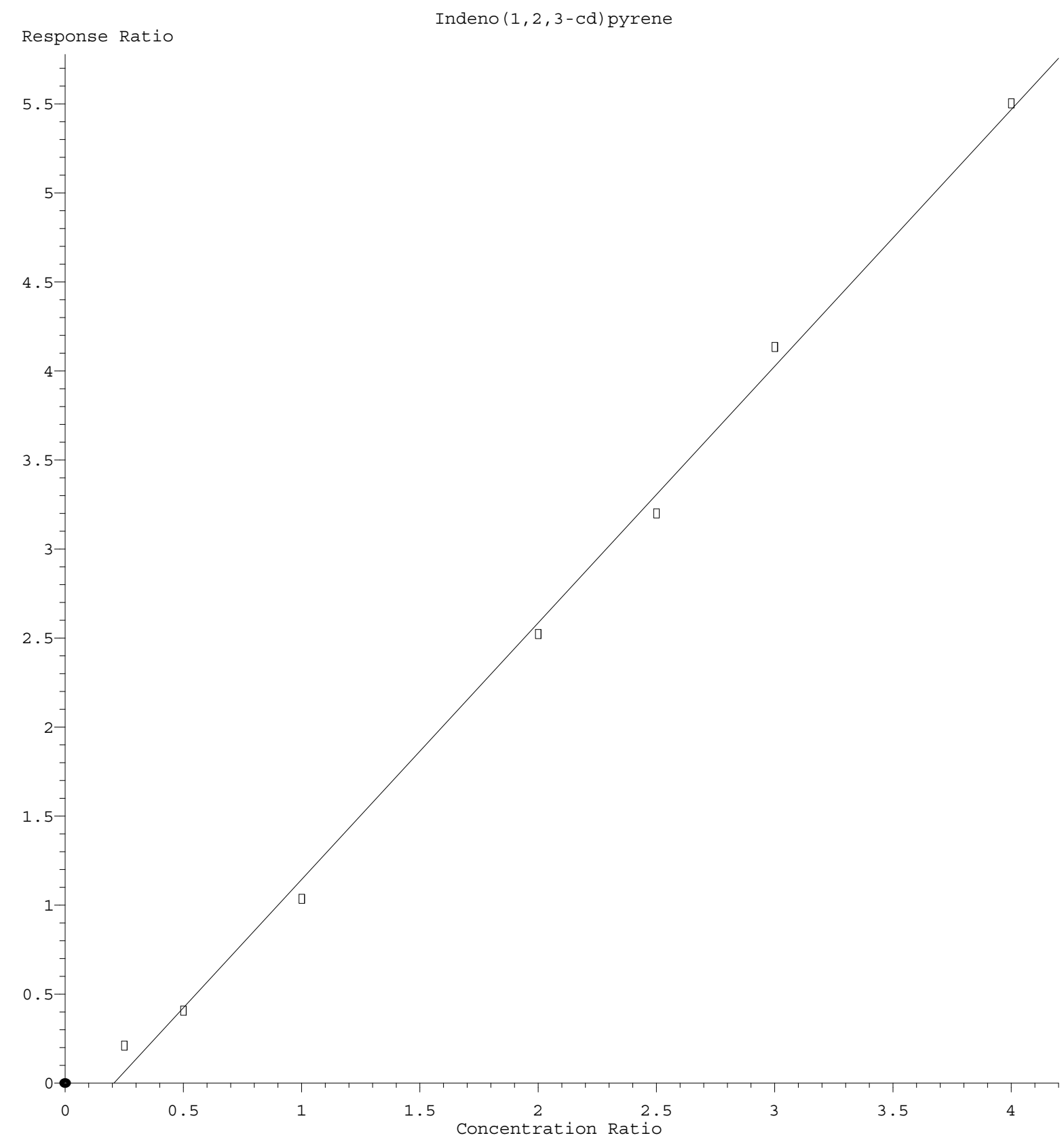
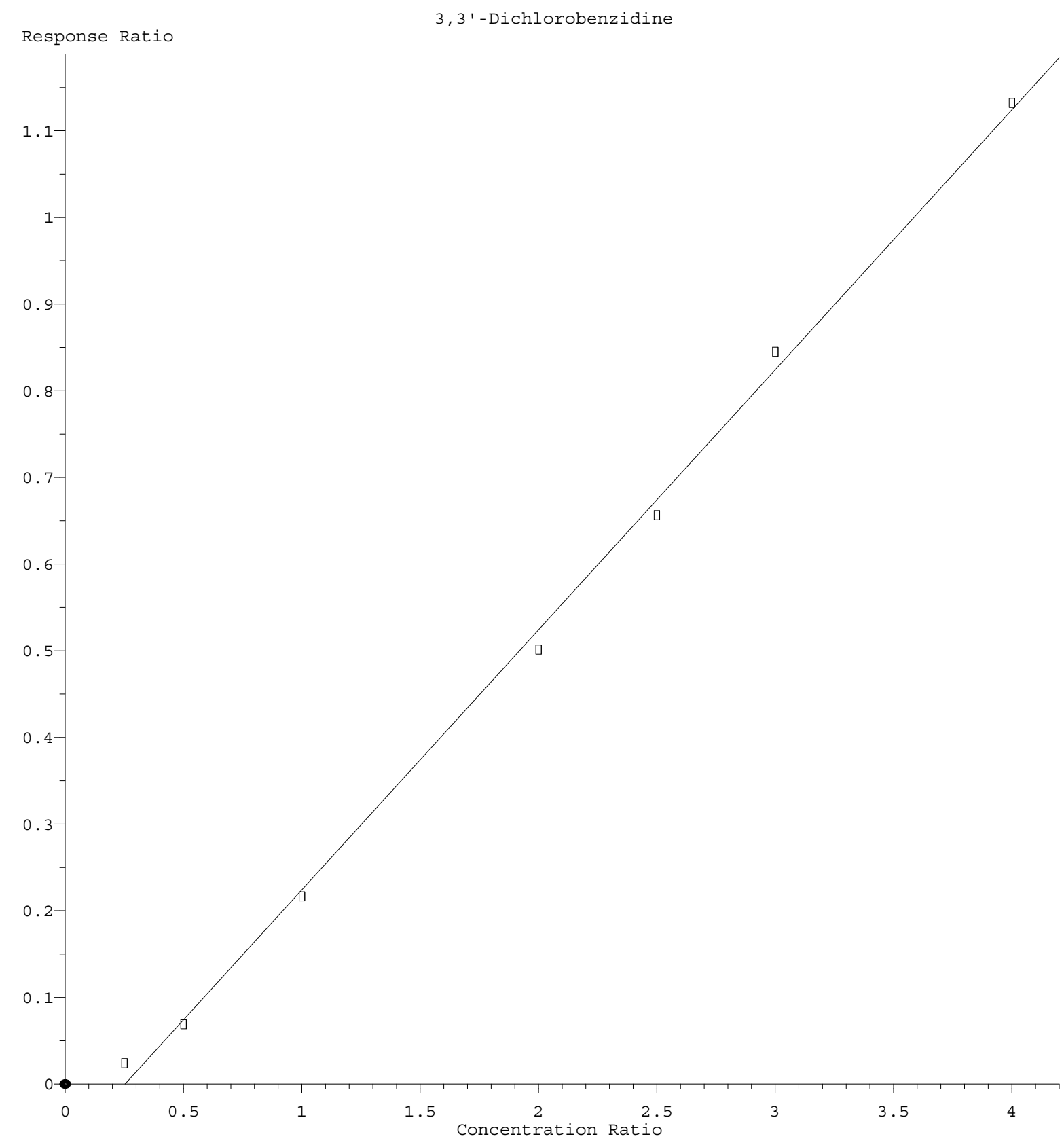
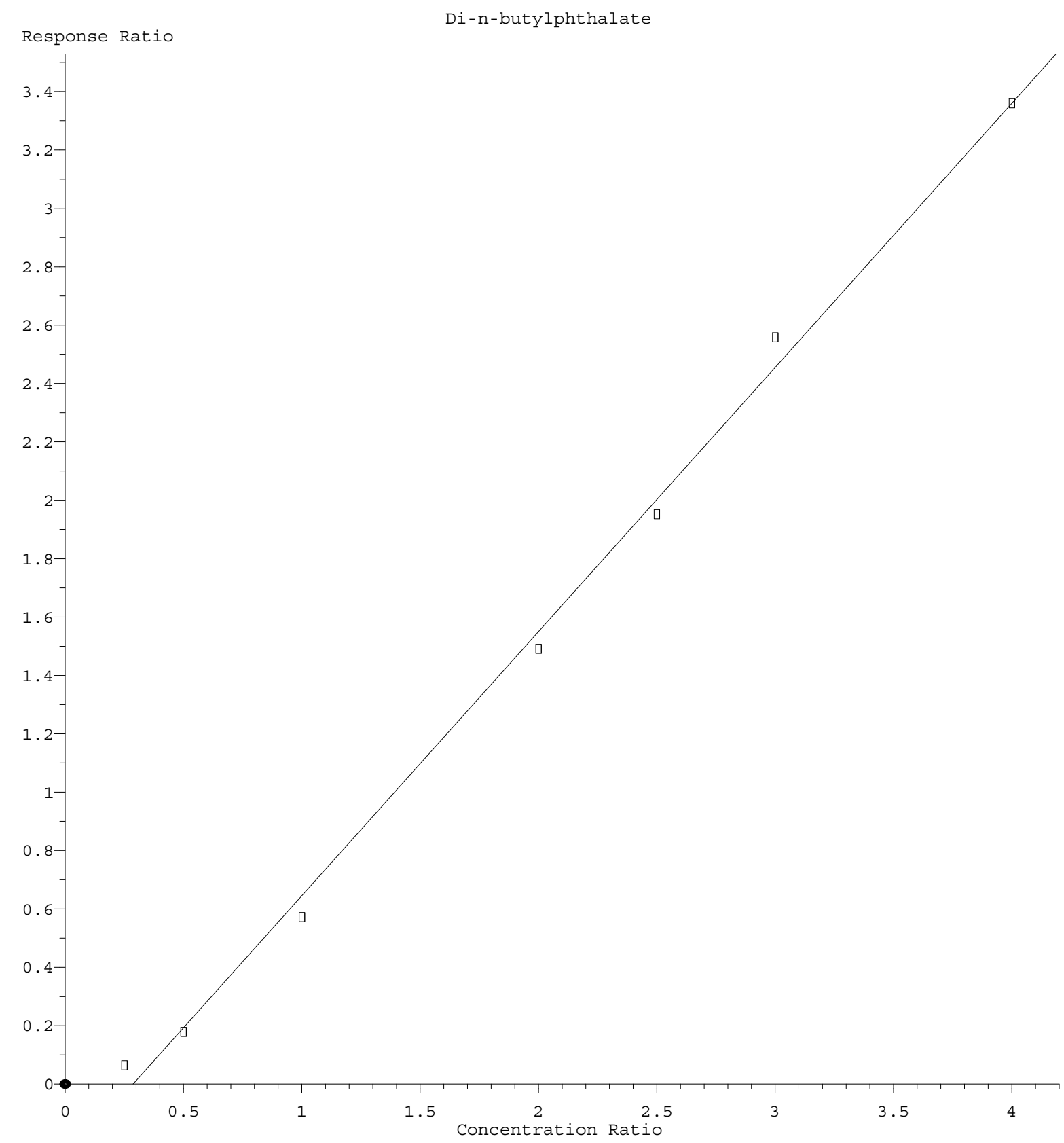
Calibration Table Last Updated: Wed Apr 12 03:34:19 2023



Response = 1.441e+000 * Amt - 2.980e-001
Coef of Det (r^2) = 0.997404 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041123.M
Calibration Table Last Updated: Wed Apr 12 03:34:19 2023



Response = 3.000e-001 * Amt - 7.575e-002
Coef of Det (r^2) = 0.998025 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041123.M
Calibration Table Last Updated: Wed Apr 12 03:34:19 2023



Response = 9.050e-001 * Amt - 2.594e-001
Coef of Det (r^2) = 0.996621 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041123.M
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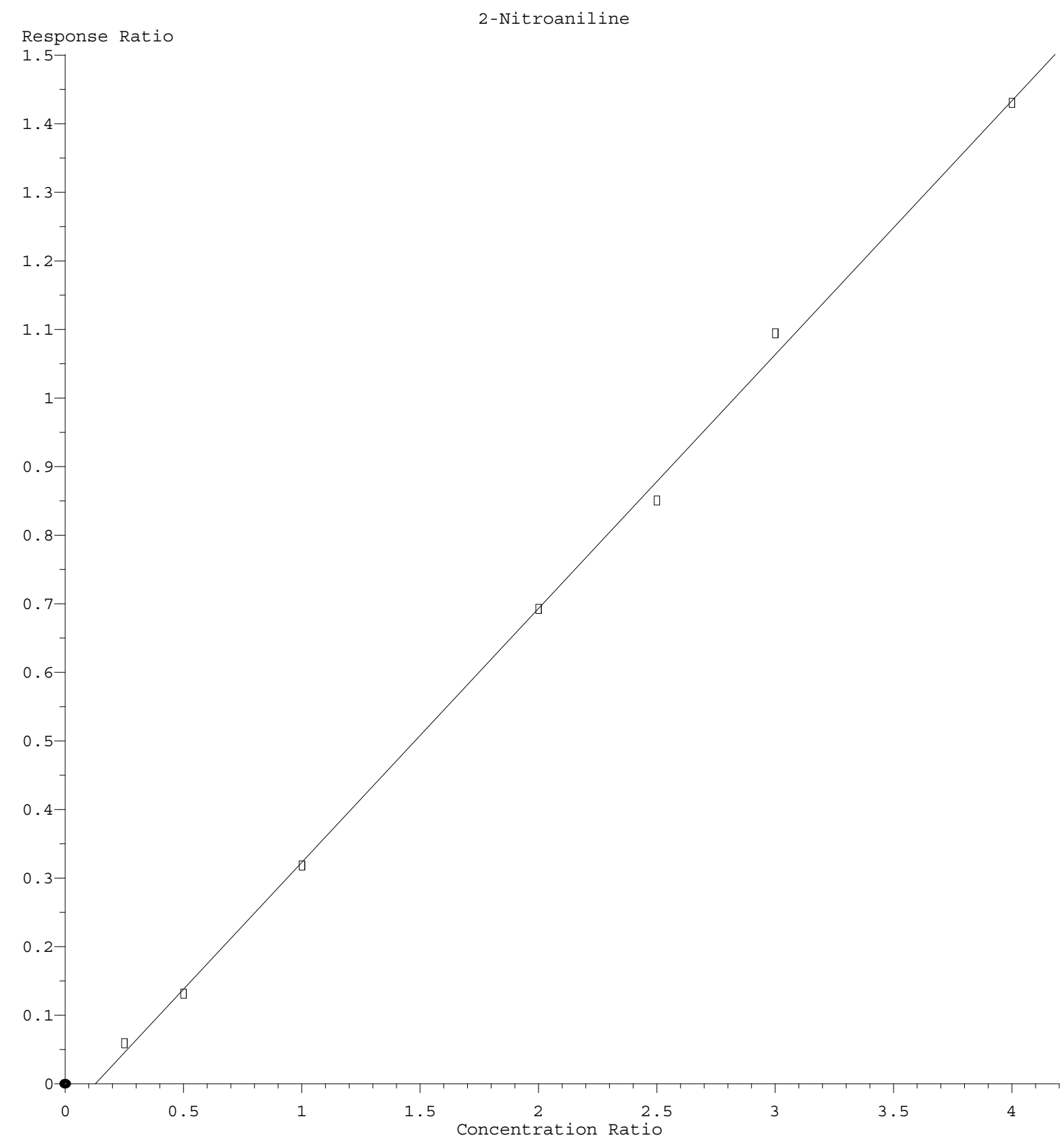

Response = 3.703e-001 * Amt - 4.723e-002
Coef of Det (r^2) = 0.998739 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041123.M
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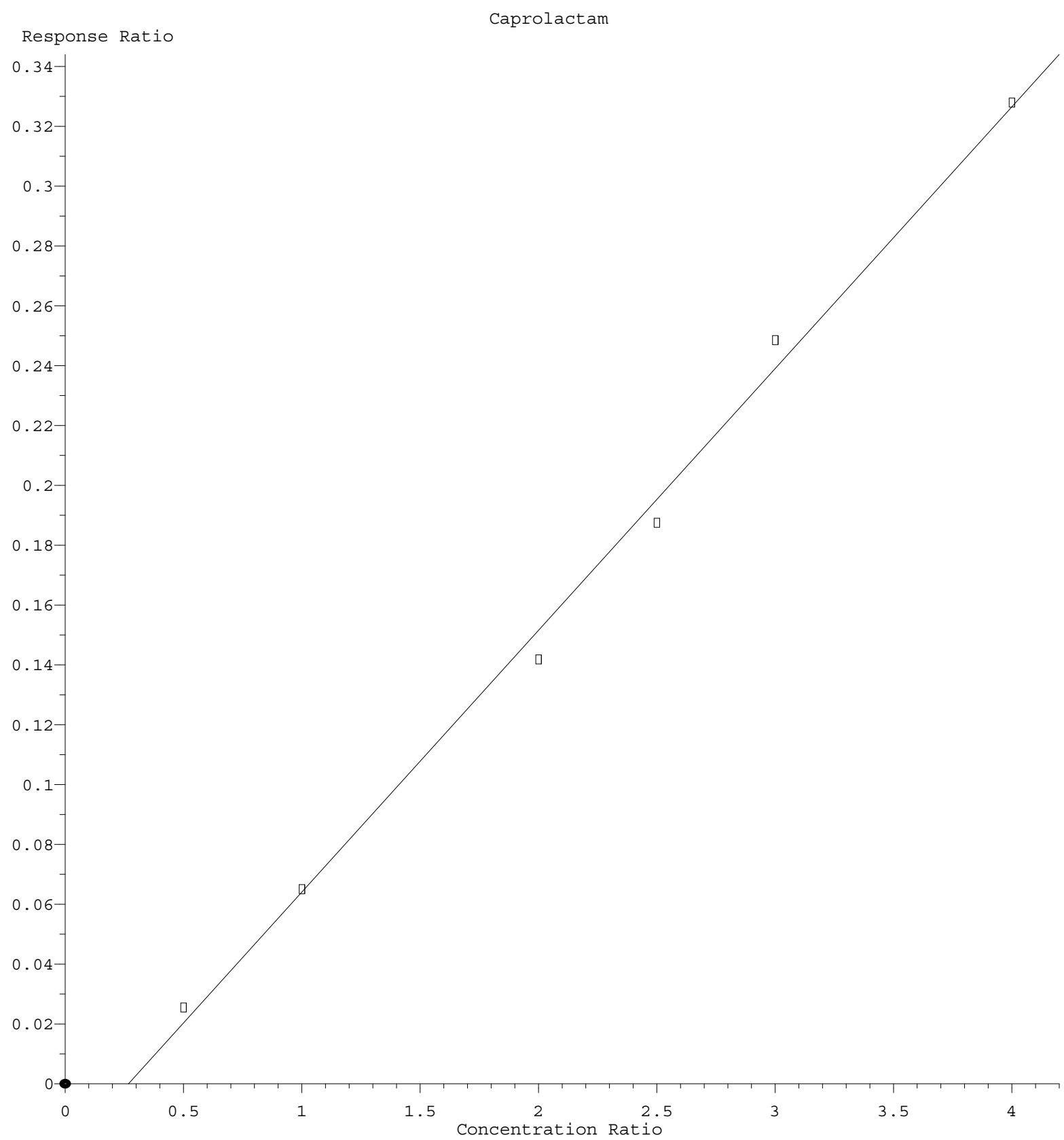

Response = 8.746e-002 * Amt - 2.346e-002
Coef of Det (r^2) = 0.995706 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041123.M
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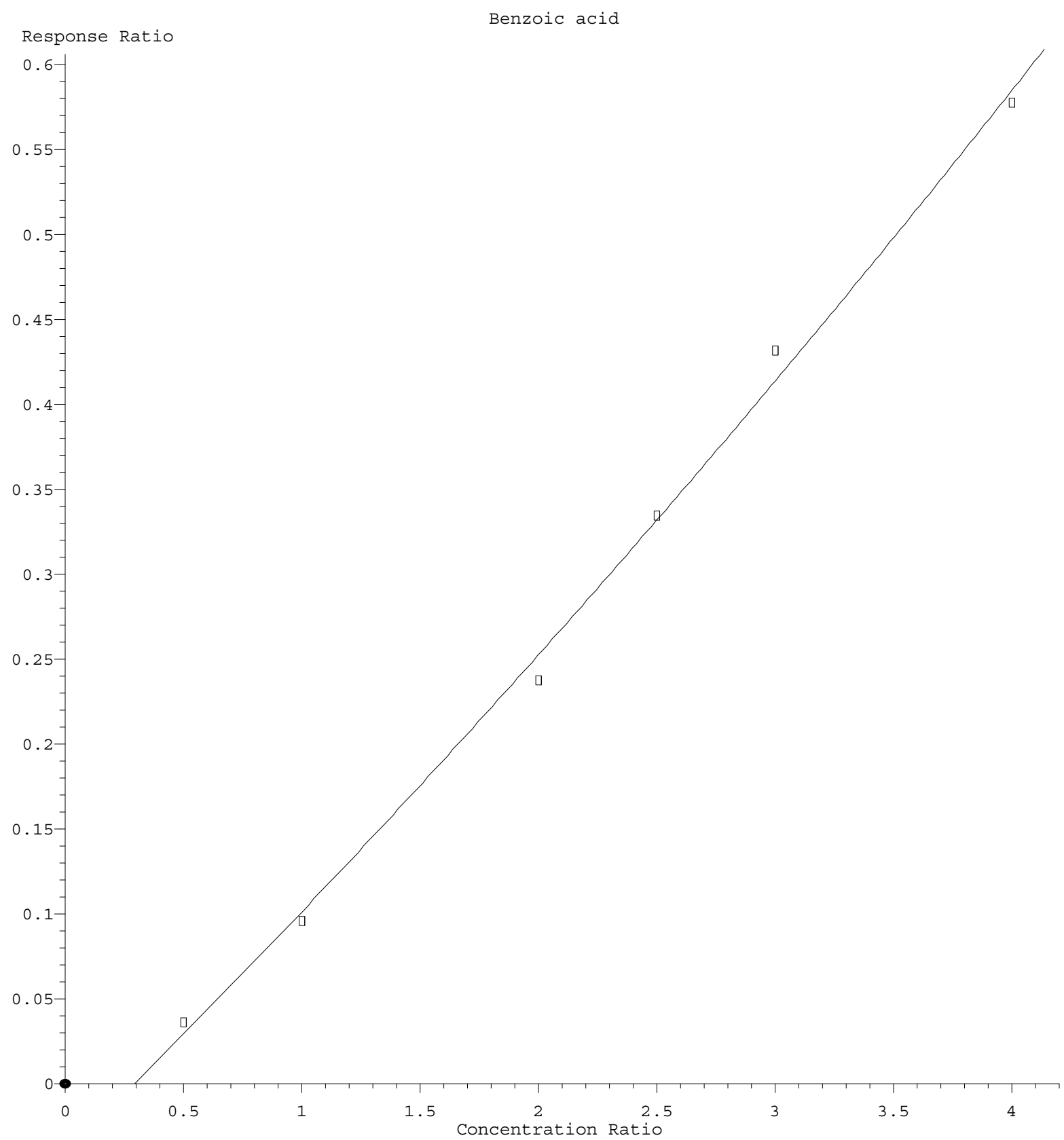
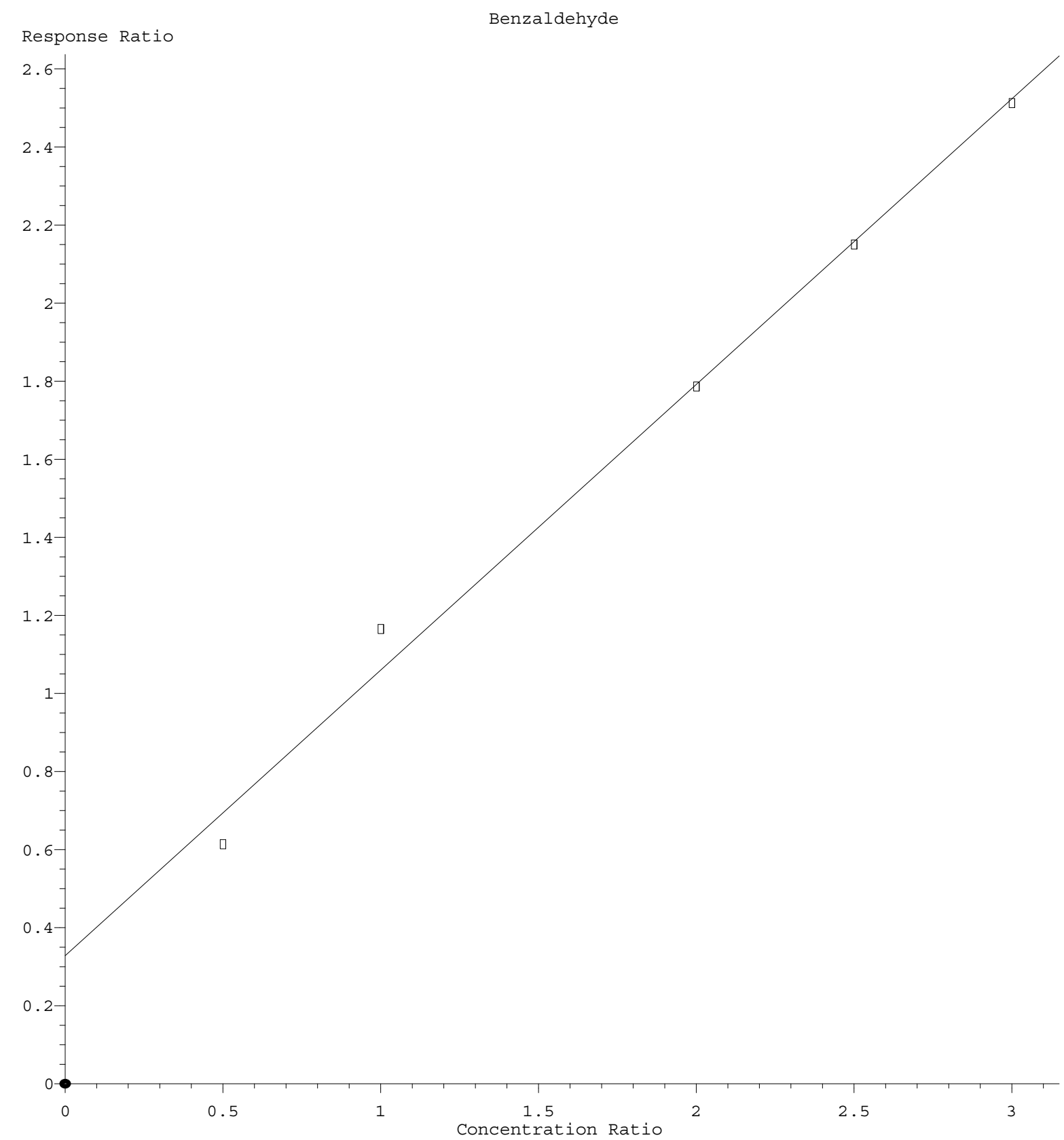


R = 4.963e-003 A*A + 1.364e-001 A - 4.017e-002
Coef of Det (r^2) = 0.996734 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041123.M
Calibration Table Last Updated: Wed Apr 12 03:34:19 2023



Response = 7.320e-001 * Amt + 3.279e-001
Coef of Det (r^2) = 0.992374 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041123.M
Calibration Table Last Updated: Wed Apr 12 03:34:19 2023