Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011923.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 20 00:50:42 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF132140.D 5 =BF132141.D 10 =BF132142.D 20 =BF132143.D 40 =BF132144.D 50 =BF132145.D 60 =BF132146.D 80 =BF1321
47.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.624	0.591	0.586	0.580	0.553	0.575	0.553	0.580	4.24
3)		Pyridine		1.663	1.539	1.599	1.567	1.496	1.554	1.480	1.557	3.98
4)		n-Nitrosodimet...		0.731	0.705	0.733	0.730	0.724	0.761	0.742	0.732	2.31
5)	S	2-Fluorophenol		1.301	1.246	1.204	1.116	1.063	1.077	1.009	1.145	9.35
6)		Aniline		2.241	2.090	2.044	1.937	1.865	1.940	1.857	1.996	6.91
7)	S	Phenol-d6		1.696	1.541	1.516	1.404	1.325	1.352	1.254	1.441	10.54
8)		2-Chlorophenol		1.351	1.306	1.286	1.183	1.129	1.136	1.034	1.203	9.50
9)		Benzaldehyde			1.086	1.022	0.903	0.814	0.812		0.927	13.33
10)	C	Phenol		1.733	1.636	1.580	1.468	1.375	1.408	1.303	1.500	10.29
11)		bis(2-Chloroet...		1.461	1.341	1.325	1.236	1.178	1.219	1.131	1.270	8.87
12)		1,3-Dichlorobe...		1.556	1.458	1.406	1.312	1.242	1.269	1.174	1.345	9.97
13)	C	1,4-Dichlorobe...		1.544	1.451	1.419	1.314	1.238	1.266	1.163	1.342	9.99
14)		1,2-Dichlorobe...		1.495	1.391	1.326	1.200	1.128	1.134	1.014	1.241	13.62
15)		Benzyl Alcohol		1.128	1.103	1.125	1.106	1.090	1.105	1.060	1.102	2.07
16)		2,2'-oxybis(1-...		2.119	1.959	1.937	1.815	1.731	1.743	1.617	1.846	9.20
17)		2-Methylphenol		1.172	1.098	1.104	1.042	0.990	1.019	0.955	1.054	7.08
18)		Hexachloroethane		0.503	0.486	0.495	0.489	0.466	0.485	0.449	0.482	3.82
19)	P	n-Nitroso-di-n...	0.922	1.015	0.971	0.921	0.847	0.797	0.814	0.776	0.883	9.86
20)		3+4-Methylphenols		1.509	1.435	1.426	1.317	1.235	1.258	1.119	1.328	10.25
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.579	0.528	0.504	0.462	0.431	0.442	0.419	0.481	12.18
23)	S	Nitrobenzene-d5		0.363	0.366	0.383	0.383	0.371	0.388	0.381	0.376	2.54
24)		Nitrobenzene		0.397	0.392	0.410	0.406	0.388	0.406	0.391	0.399	2.20
25)		Isophorone		0.767	0.740	0.738	0.719	0.711	0.739	0.743	0.737	2.45
26)	C	2-Nitrophenol		0.099	0.105	0.128	0.148	0.154			0.127	19.49
27)		2,4-Dimethylph...		0.334	0.330	0.324	0.322	0.308	0.313	0.300	0.319	3.82
28)		bis(2-Chloroet...		0.497	0.471	0.461	0.430	0.407	0.421	0.406	0.442	7.97
29)	C	2,4-Dichloroph...		0.303	0.298	0.313	0.309	0.294	0.305	0.296	0.303	2.28
30)		1,2,4-Trichlor...		0.388	0.360	0.355	0.338	0.320	0.328	0.316	0.344	7.49
31)		Naphthalene		1.185	1.119	1.075	0.998	0.942	0.965	0.907	1.027	9.89
32)		Benzoic acid			0.118	0.151	0.188	0.200	0.228	0.235	0.187	24.10
33)		4-Chloroaniline		0.496	0.474	0.458	0.437	0.411	0.410	0.390	0.440	8.72
34)	C	Hexachlorobuta...		0.252	0.234	0.234	0.227	0.220	0.230	0.220	0.231	4.75
35)		Caprolactam		0.075	0.081	0.086	0.090	0.089	0.090	0.089	0.086	6.65
36)	C	4-Chloro-3-met...		0.299	0.305	0.314	0.309	0.305	0.302	0.298	0.305	1.80
37)		2-Methylnaphth...		0.828	0.783	0.739	0.684	0.643	0.655	0.619	0.707	11.04
38)		1-Methylnaphth...		0.774	0.719	0.690	0.638	0.599	0.609	0.577	0.658	10.93

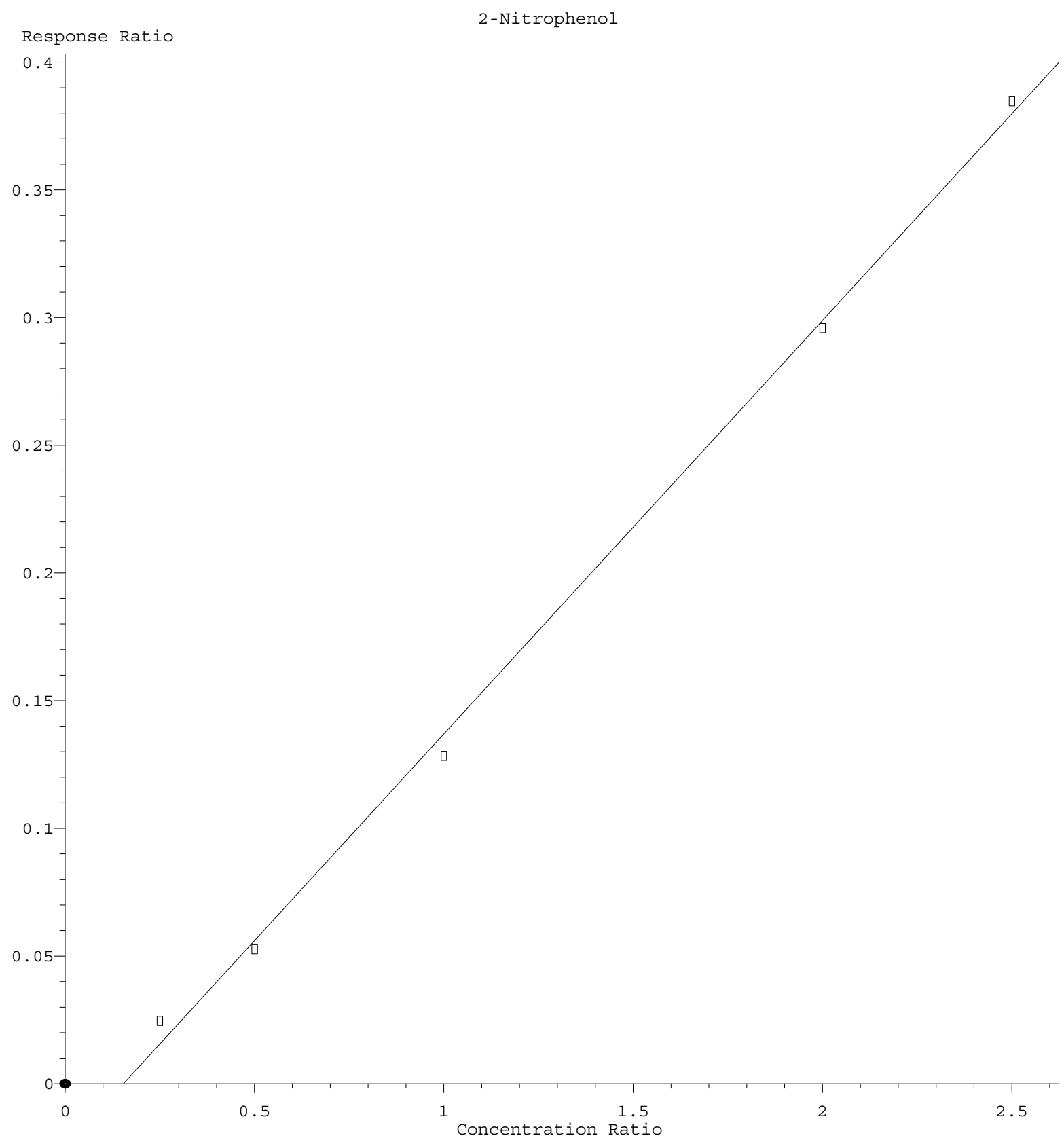
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011923.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.789	0.737	0.719	0.684	0.641	0.667	0.634	0.696	8.04
41)	P	Hexachlorocycl...		0.306	0.342	0.390	0.389	0.422	0.428	0.380	12.43
42)	S	2,4,6-Tribromo...	0.197	0.207	0.222	0.221	0.217	0.219	0.212	0.214	4.25
43)	C	2,4,6-Trichlor...	0.392	0.414	0.445	0.448	0.437	0.451	0.436	0.432	4.95
44)		2,4,5-Trichlor...	0.475	0.487	0.519	0.523	0.504	0.524	0.504	0.505	3.69
45)	S	2-Fluorobiphenyl	1.669	1.529	1.407	1.250	1.162	1.197		1.369	14.76
46)		1,1'-Biphenyl	1.813	1.710	1.657	1.537	1.450	1.490	1.388	1.578	9.70
47)		2-Chloronaphth...	1.372	1.294	1.270	1.195	1.131	1.167	1.110	1.220	7.81
48)		2-Nitroaniline	0.245	0.288	0.354	0.380	0.391	0.405	0.395	0.351	17.42
49)		Acenaphthylene	2.180	2.078	2.033	1.912	1.834	1.851	1.771	1.951	7.63
50)		Dimethylphthalate	1.562	1.520	1.519	1.435	1.369	1.396	1.338	1.449	5.95
51)		2,6-Dinitrotol...	0.224	0.253	0.286	0.301	0.300	0.307	0.296	0.281	10.95
52)	C	Acenaphthene	1.315	1.269	1.214	1.141	1.085	1.123	1.070	1.174	8.01
53)		3-Nitroaniline	0.256	0.289	0.318	0.322	0.319	0.307	0.291	0.300	7.88
54)	P	2,4-Dinitrophenol		0.078	0.097	0.111	0.124	0.131		0.108	19.86
55)		Dibenzofuran	2.079	1.971	1.883	1.771	1.692	1.707	1.594	1.814	9.44
56)	P	4-Nitrophenol	0.172	0.191	0.221	0.232	0.242	0.239	0.233	0.218	12.18
57)		2,4-Dinitrotol...	0.266	0.281	0.340	0.355	0.372	0.379	0.366	0.337	13.46
58)		Fluorene	1.619	1.504	1.416	1.282	1.219	1.221	1.148	1.344	12.87
59)		2,3,4,6-Tetrac...	0.344	0.366	0.400	0.405	0.393	0.399	0.382	0.384	5.77
60)		Diethylphthalate	1.495	1.493	1.485	1.423	1.389	1.362	1.296	1.420	5.37
61)		4-Chlorophenyl...	0.838	0.783	0.750	0.704	0.664	0.673	0.625	0.720	10.37
62)		4-Nitroaniline	0.258	0.275	0.293	0.282	0.290	0.283	0.276	0.279	4.12
63)		Azobenzene	1.594	1.515	1.498	1.401	1.349	1.354	1.268	1.426	8.00
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.058	0.072	0.085	0.094	0.103	0.109	0.087	22.26
66)	c	n-Nitrosodiphe...	0.705	0.681	0.655	0.614	0.598	0.628	0.601	0.641	6.46
67)		4-Bromophenyl-...	0.260	0.253	0.247	0.237	0.230	0.244	0.236	0.244	4.25
68)		Hexachlorobenzene	0.260	0.248	0.243	0.235	0.229	0.242	0.237	0.242	4.22
69)		Atrazine	0.204	0.202	0.203	0.197	0.190	0.198	0.190	0.198	2.96
70)	C	Pentachlorophenol	0.123	0.136	0.156	0.162	0.167	0.174	0.172	0.156	12.45
71)		Phenanthrene	1.231	1.134	1.083	0.997	0.960	1.003	0.939	1.050	10.02
72)		Anthracene	1.244	1.150	1.104	1.007	0.965	1.006	0.956	1.062	10.15
73)		Carbazole	1.046	0.997	0.952	0.865	0.829	0.852	0.808	0.907	10.07
74)		Di-n-butylphth...	1.021	1.052	1.071	0.990	0.977	1.001	0.955	1.010	4.07
75)	C	Fluoranthene	1.297	1.190	1.123	1.008	0.979	1.002	0.949	1.078	11.96
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.607	0.635	0.615	0.682	0.569	0.574	0.521	0.600	8.60
78)		Pyrene	1.905	1.890	1.961	1.847	1.820	1.833	1.646	1.843	5.41
79)	S	Terphenyl-d14	1.378	1.298	1.274	1.157	1.116	1.127	1.007	1.194	10.71
80)		Butylbenzylpht...	0.360	0.428	0.535	0.582	0.598	0.624	0.612	0.534	19.03
81)		Benzo(a)anthra...	1.454	1.419	1.446	1.403	1.402	1.471	1.406	1.429	1.95
82)		3,3'-Dichlorob...	0.310	0.345	0.403	0.422	0.418	0.456	0.430	0.398	12.91
83)		Chrysene	1.457	1.365	1.351	1.331	1.310	1.380	1.325	1.360	3.62
84)		Bis(2-ethylhex...	0.472	0.547	0.691	0.768	0.788	0.841	0.830	0.705	20.44
85)	c	Di-n-octyl pht...		0.595	0.816	1.093	1.187	1.360	1.445	1.083	30.01#

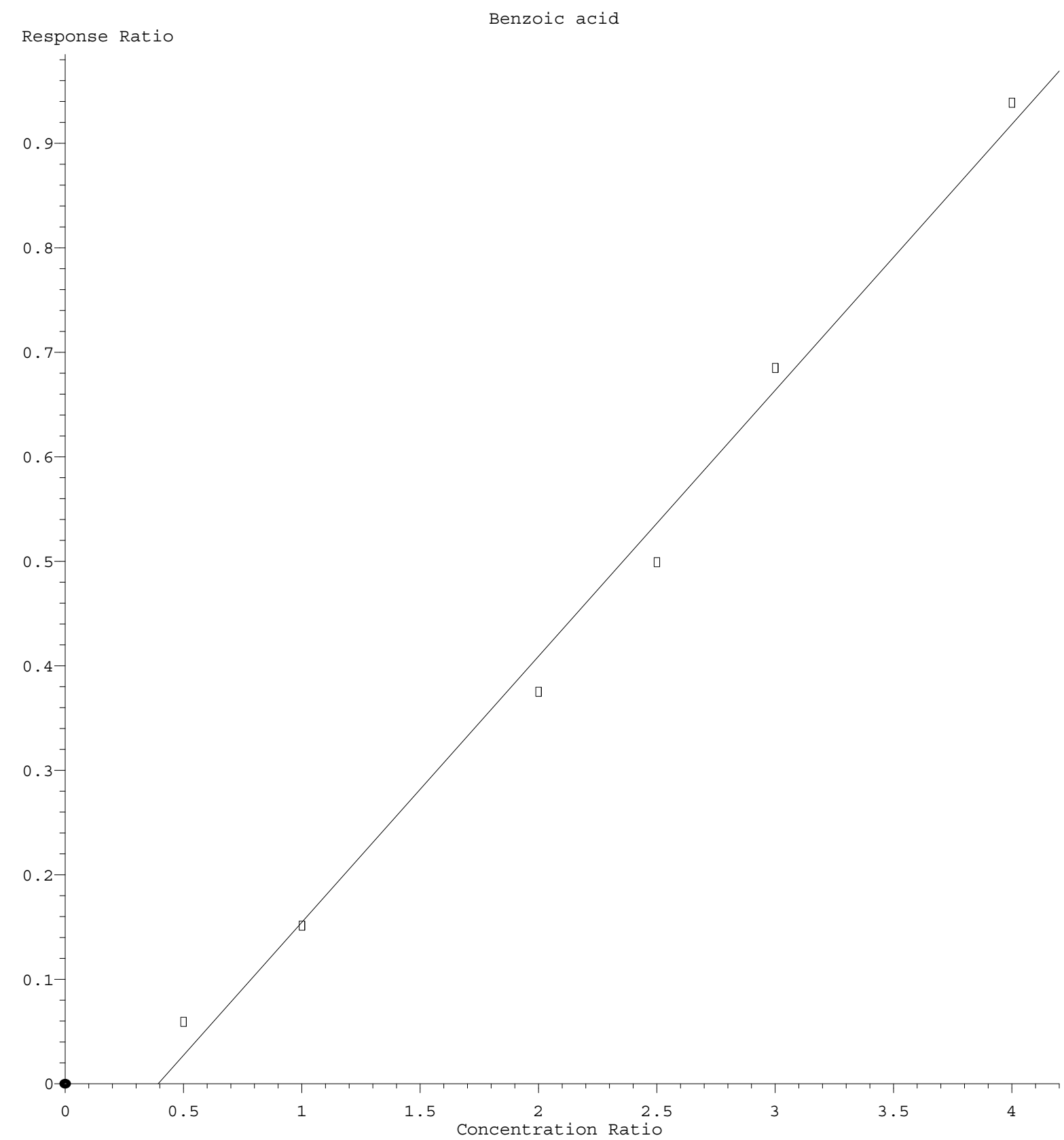
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011923.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.093	1.197	1.461	1.579	1.556	1.661	1.613	1.451	15.17
88)		Benzo(b)fluora...	1.288	1.234	1.181	1.230	1.164	1.212	1.214	1.218	3.28
89)		Benzo(k)fluora...	1.336	1.302	1.303	1.211	1.157	1.208	1.177	1.242	5.66
90)	C	Benzo(a)pyrene	1.124	1.102	1.157	1.195	1.167	1.243	1.212	1.171	4.23
91)		Dibenzo(a,h)an...	0.926	1.009	1.215	1.294	1.249	1.323	1.268	1.184	12.94
92)		Benzo(g,h,i)pe...	0.925	1.038	1.267	1.354	1.328	1.422	1.385	1.246	15.21

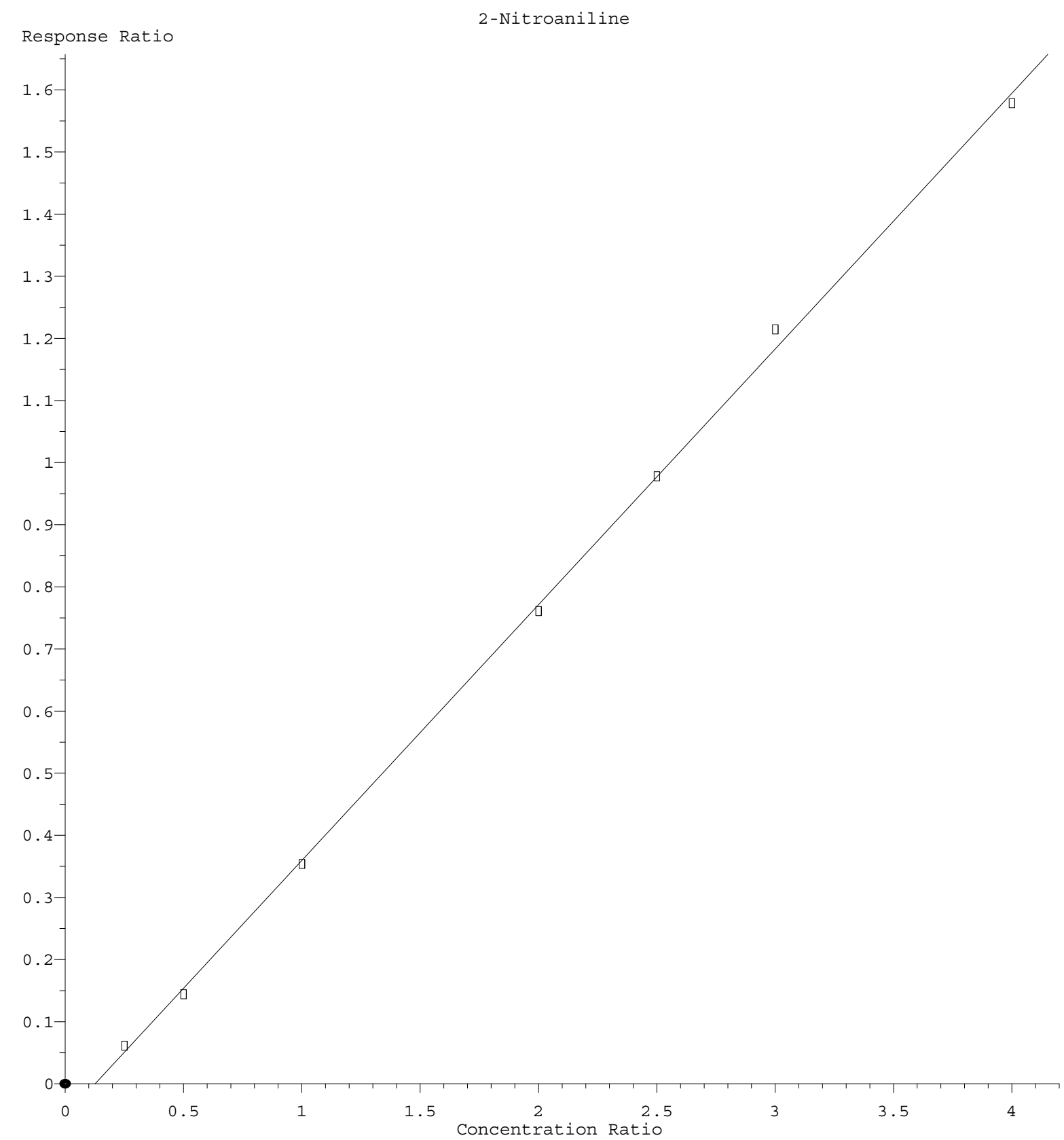
(#) = Out of Range



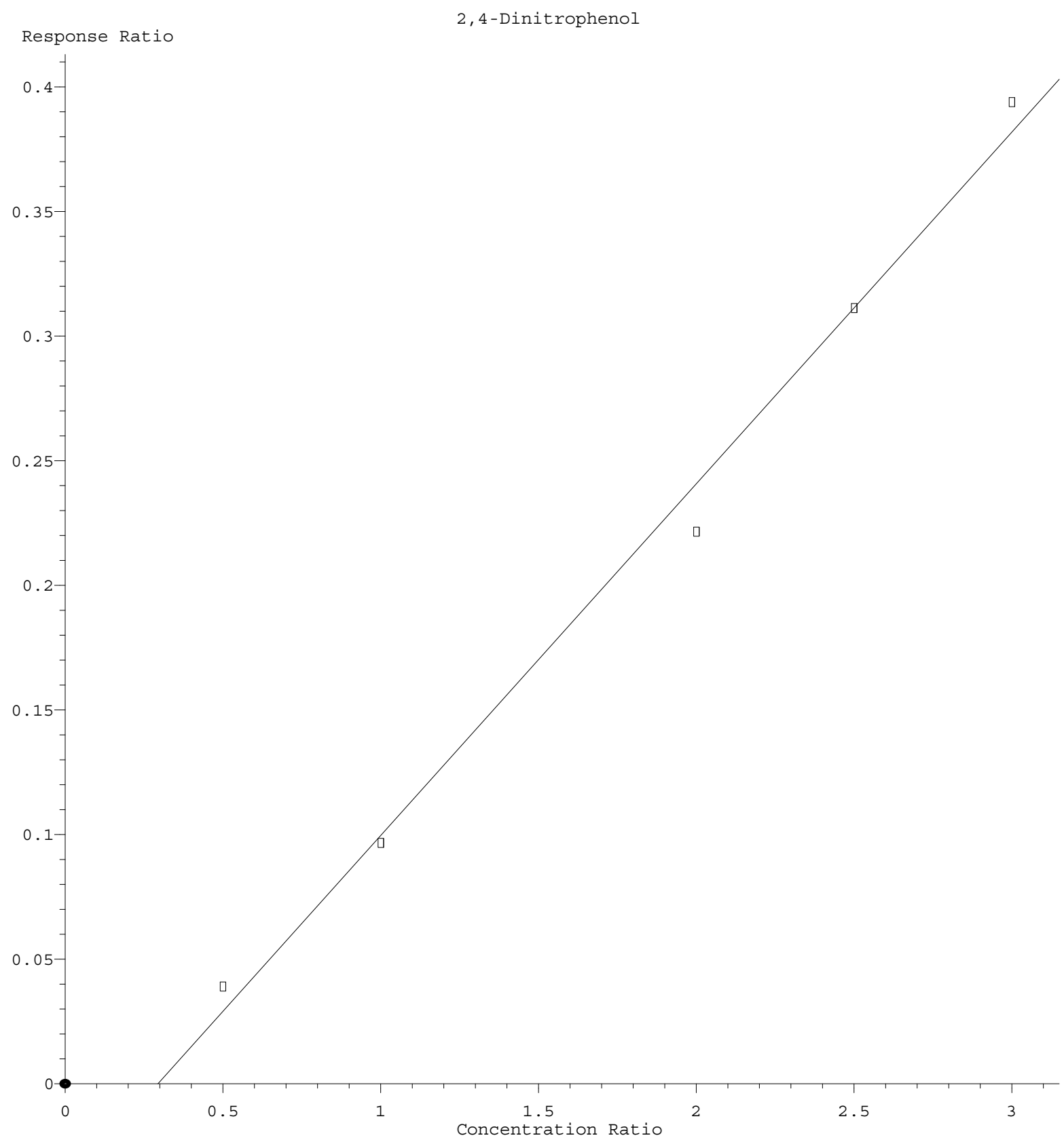
Response = 1.617e-001 * Amt - 2.493e-002
Coef of Det (r^2) = 0.997966 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023



Response = 2.545e-001 * Amt - 9.992e-002
Coef of Det (r^2) = 0.991816 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

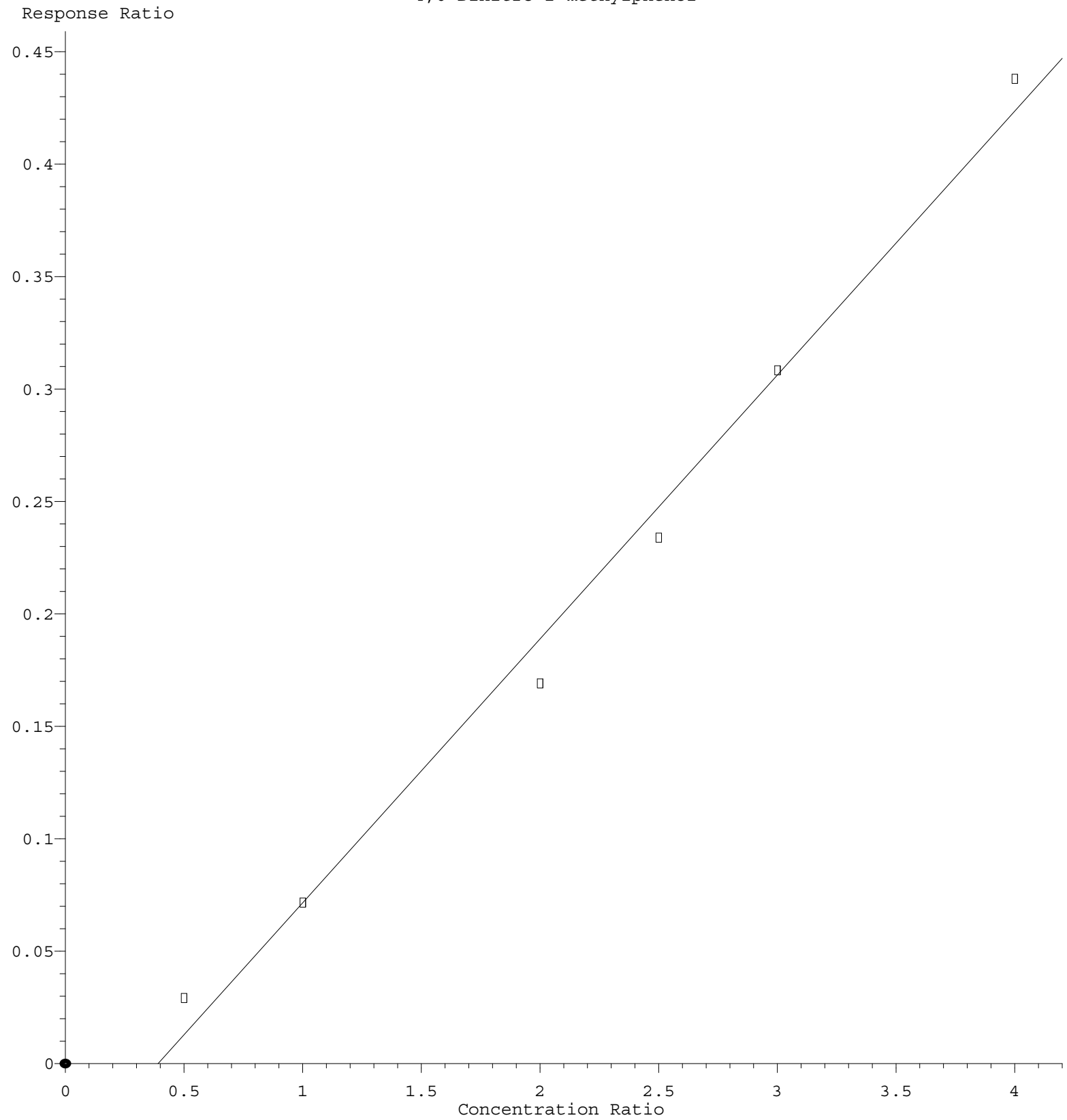


Response = 4.118e-001 * Amt - 5.219e-002
Coef of Det (r^2) = 0.999189 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

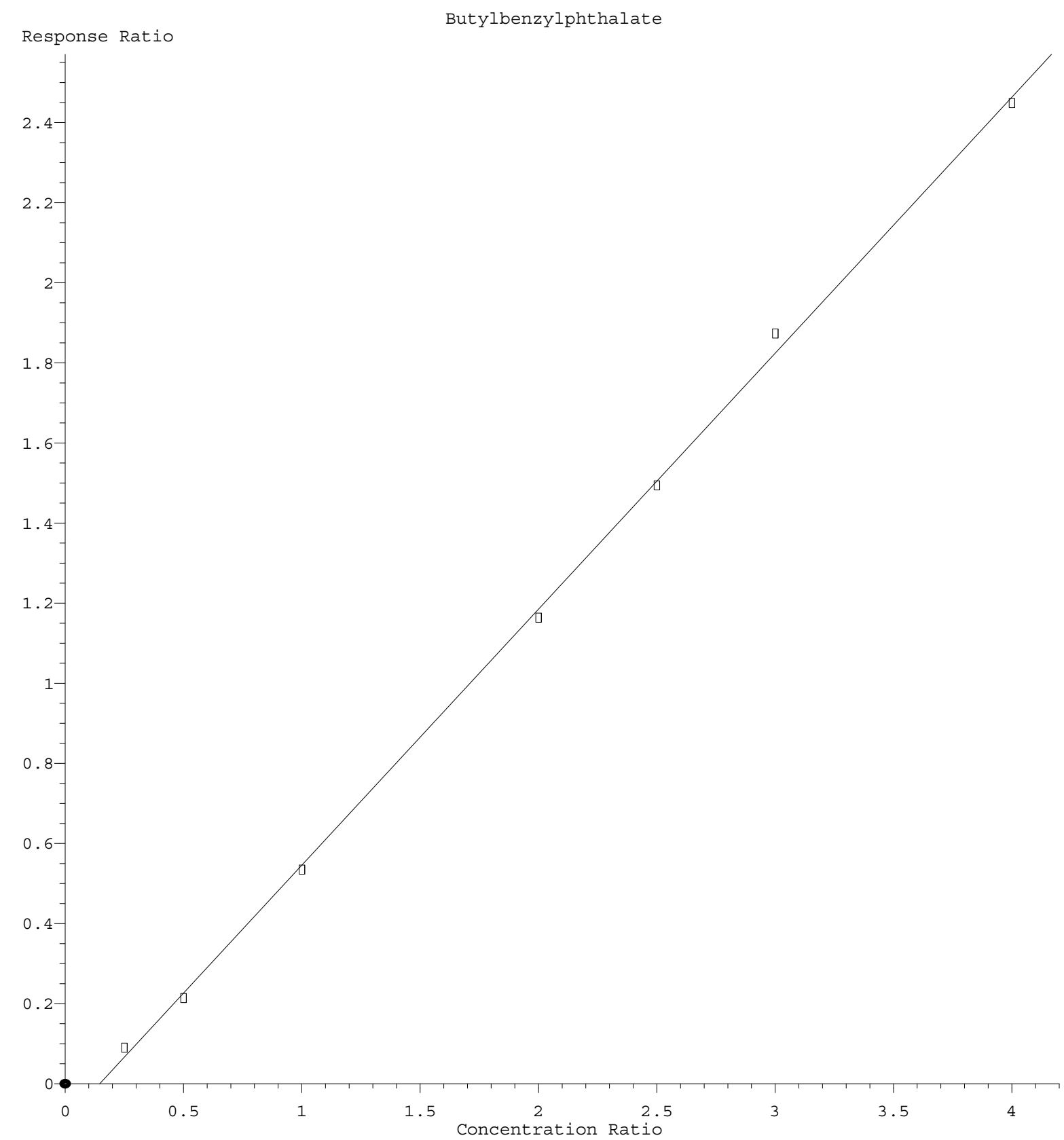


Response = 1.411e-001 * Amt - 4.154e-002
Coef of Det (r^2) = 0.992791 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

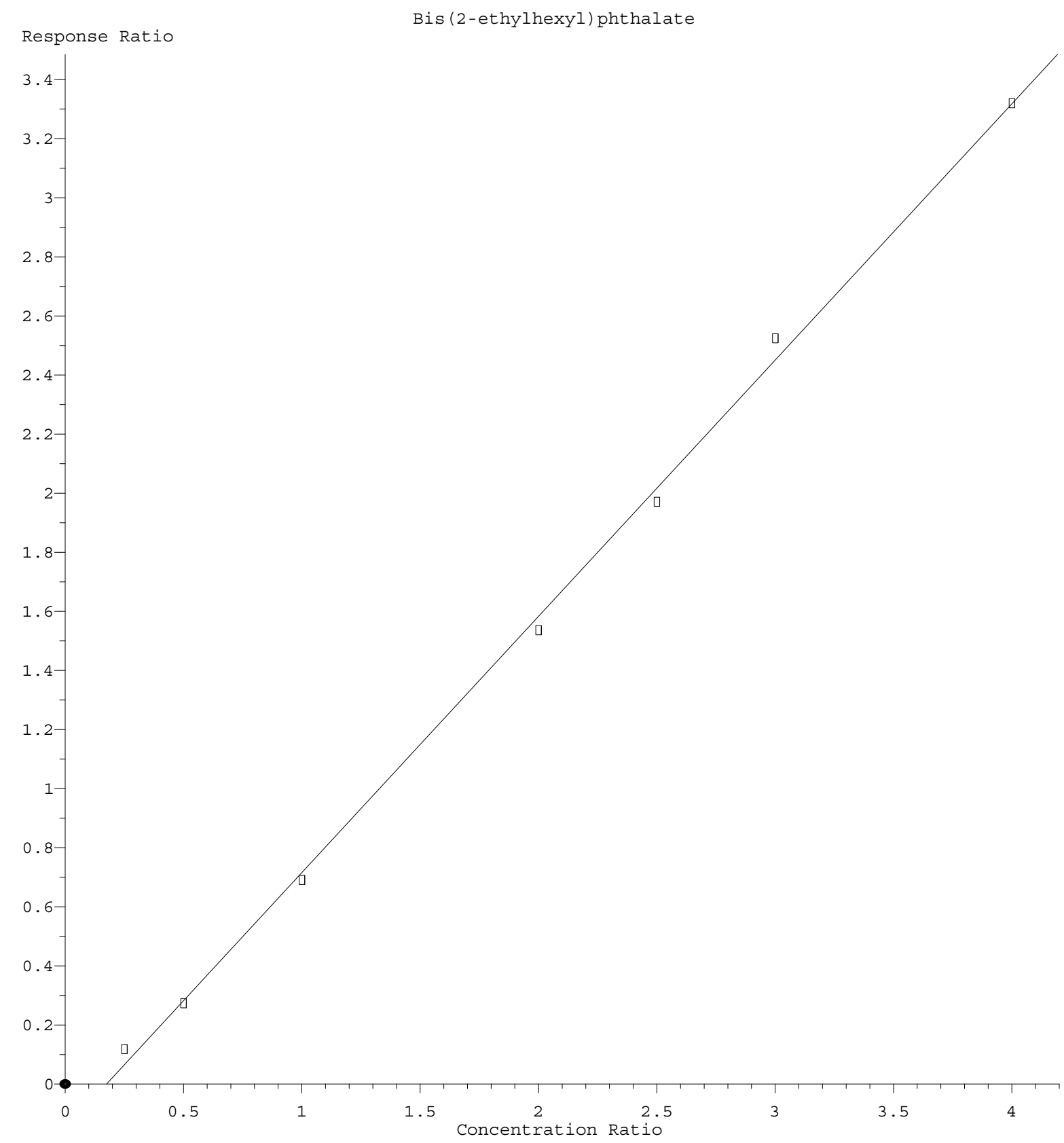
4,6-Dinitro-2-methylphenol



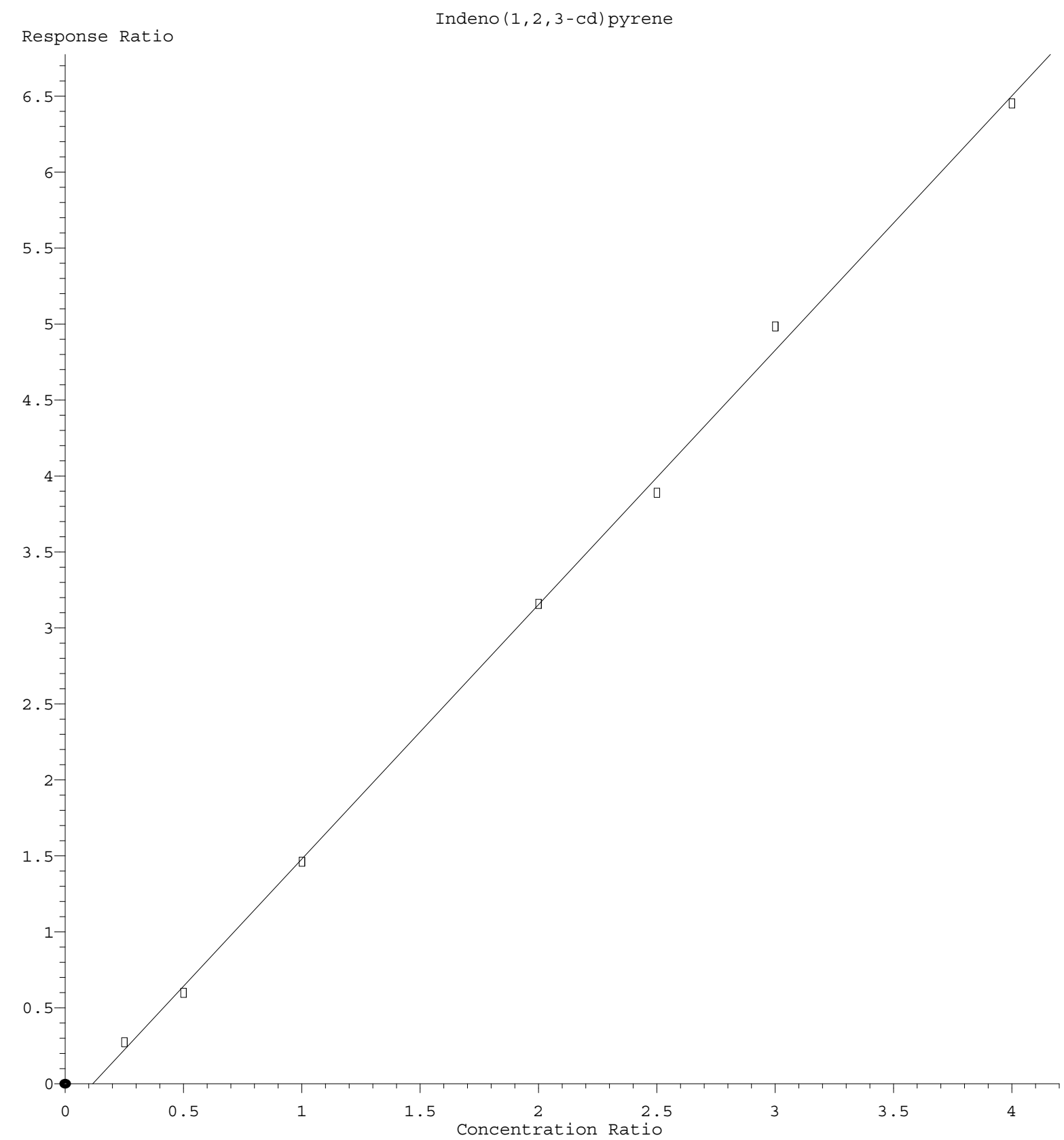
Response = 1.173e-001 * Amt - 4.581e-002
Coef of Det (r^2) = 0.990888 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023



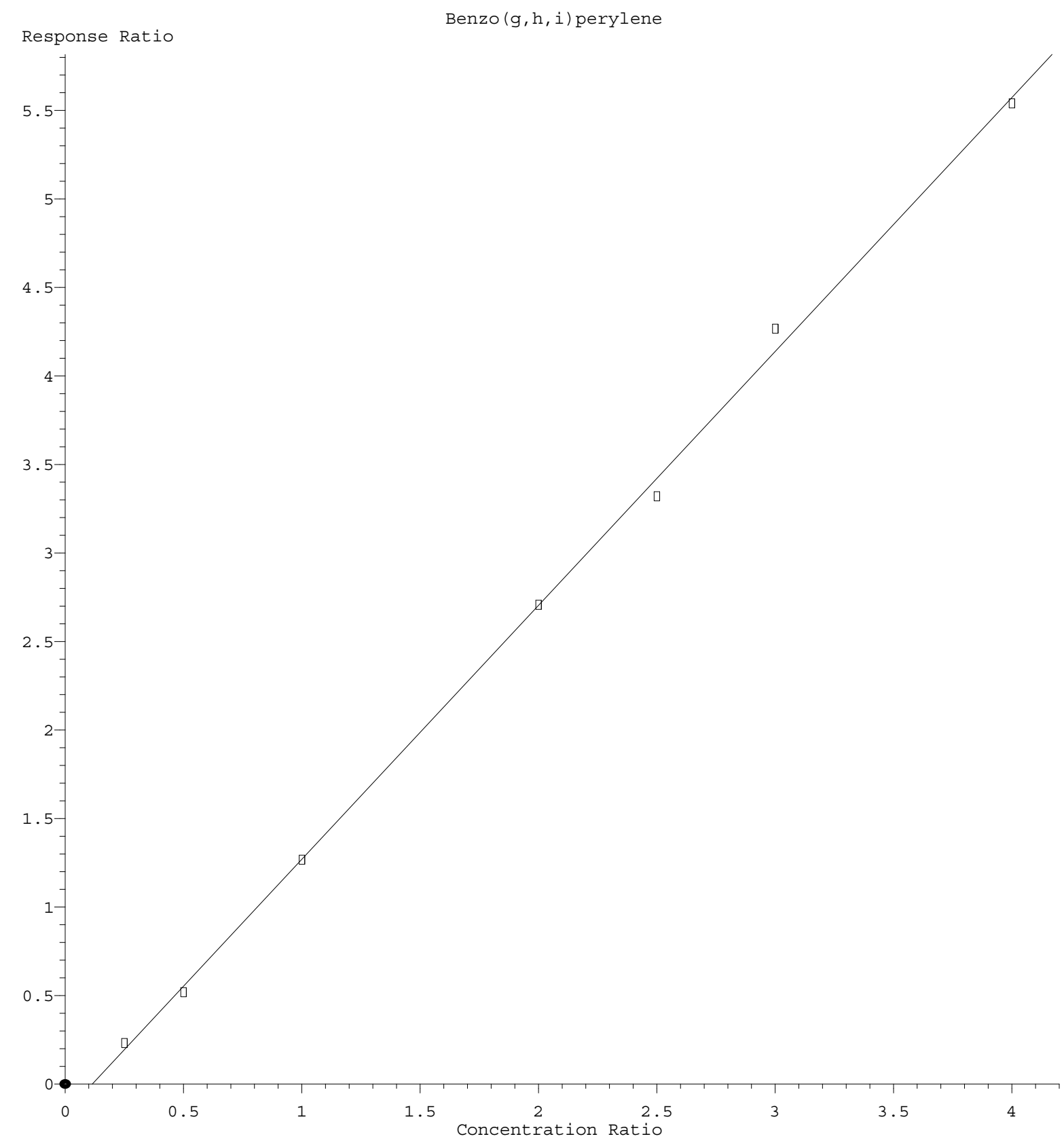
Response = 6.394e-001 * Amt - 9.337e-002
Coef of Det (r^2) = 0.999143 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023



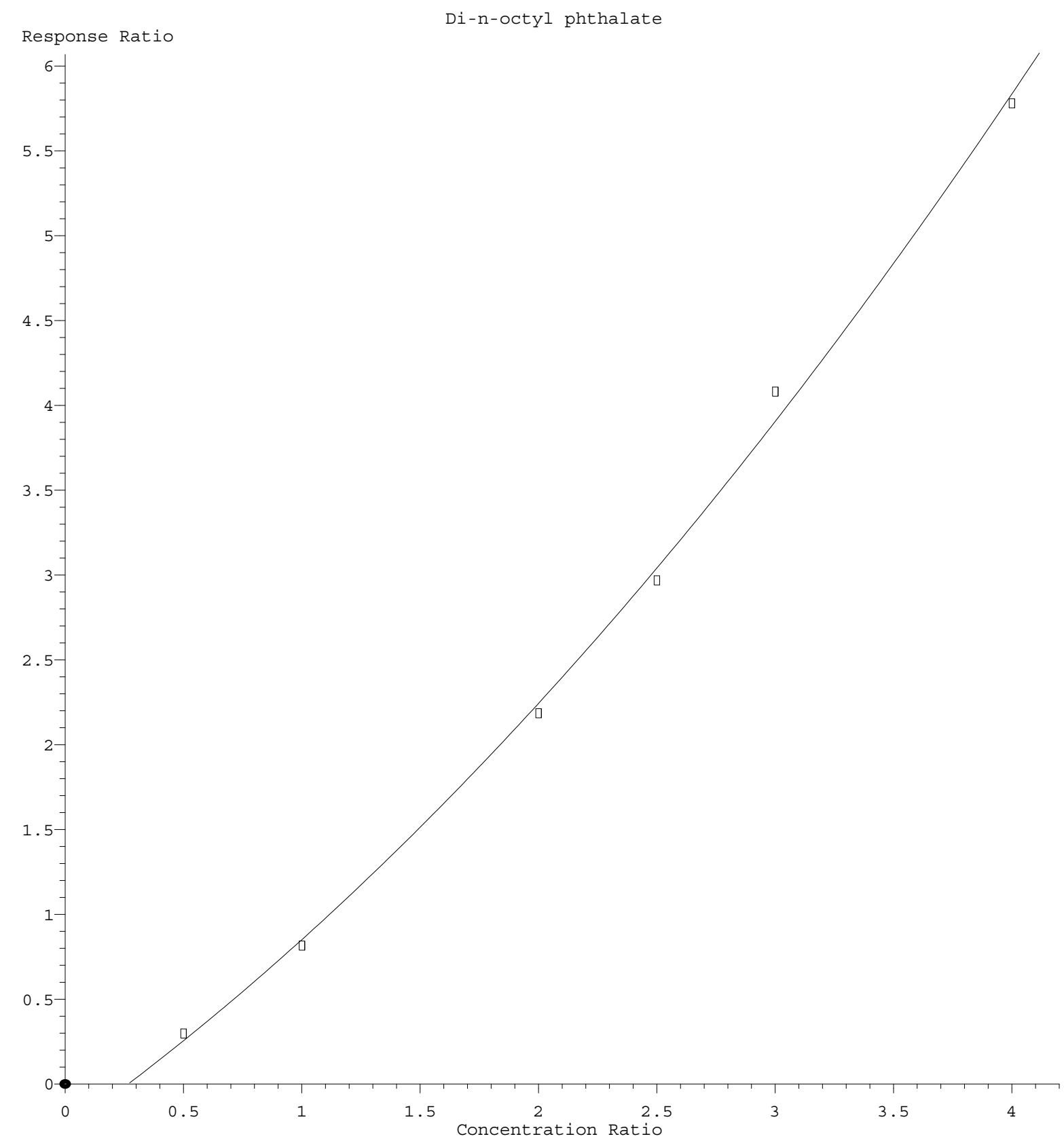
Response = 8.674e-001 * Amt - 1.515e-001
Coef of Det (r^2) = 0.998465 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023



Response = 1.674e+000 * Amt - 1.957e-001
Coef of Det (r^2) = 0.998700 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023



Response = 1.434e+000 * Amt - 1.648e-001
Coef of Det (r^2) = 0.998719 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023



R = 1.344e-001 A*A + 9.896e-001 A - 2.736e-001
Coef of Det (r^2) = 0.997826 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023