Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF102523.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Oct 26 03:58:01 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF135936.D 5 =BF135937.D 10 =BF135938.D 20 =BF135939.D 40 =BF135940.D 50 =BF135941.D 60 =BF135942.D 80 =BF1359
43.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.608	0.585	0.638	0.599	0.580	0.590	0.612	0.602	3.29
3)		Pyridine		1.641	1.604	1.747	1.657	1.614	1.657	1.703	1.661	3.02
4)		n-Nitrosodimet...		0.716	0.699	0.754	0.720	0.711	0.722	0.747	0.724	2.71
5)	S	2-Fluorophenol		1.340	1.306	1.395	1.276	1.230	1.260	1.259	1.295	4.36
6)		Aniline		2.247	2.169	2.322	2.149	2.084	2.109	2.118	2.171	3.91
7)	S	Phenol-d6		1.693	1.602	1.720	1.599	1.537	1.567	1.569	1.612	4.24
8)		2-Chlorophenol		1.395	1.324	1.442	1.335	1.289	1.305	1.296	1.341	4.24
9)		Benzaldehyde			1.017	1.029	0.861	0.805	0.779	0.743	0.872	14.10
10)	C	Phenol		1.753	1.690	1.796	1.648	1.614	1.623	1.677	1.686	4.01
11)		bis(2-Chloroet...		1.384	1.333	1.404	1.291	1.249	1.262	1.263	1.312	4.77
12)		1,3-Dichlorobe...		1.535	1.416	1.537	1.396	1.353	1.369	1.365	1.424	5.56
13)	C	1,4-Dichlorobe...		1.562	1.435	1.545	1.412	1.360	1.345	1.354	1.430	6.30
14)		1,2-Dichlorobe...		1.458	1.358	1.455	1.303	1.245	1.247	1.231	1.328	7.35
15)		Benzyl Alcohol		1.173	1.132	1.249	1.155	1.091	1.109	1.072	1.140	5.21
16)		2,2'-oxybis(1-...		2.068	1.958	2.097	1.896	1.833	1.847	1.827	1.932	5.82
17)		2-Methylphenol		1.226	1.167	1.254	1.169	1.131	1.155	1.169	1.182	3.62
18)		Hexachloroethane		0.482	0.475	0.524	0.482	0.476	0.486	0.480	0.486	3.54
19)	P	n-Nitroso-di-n...	0.901	0.964	0.925	0.967	0.908	0.878	0.889	0.903	0.917	3.58
20)		3+4-Methylphenols		1.544	1.498	1.567	1.423	1.342	1.325	1.284	1.426	7.92
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.493	0.475	0.482	0.454	0.418	0.420	0.420	0.452	7.19
23)	S	Nitrobenzene-d5			0.203	0.276	0.303	0.300	0.320	0.335	0.290	16.17
24)		Nitrobenzene		0.207	0.256	0.316	0.331	0.313	0.333	0.346	0.300	16.74
25)		Isophorone		0.635	0.617	0.658	0.644	0.605	0.617	0.649	0.632	3.10
26)	C	2-Nitrophenol		0.036	0.046	0.076	0.105	0.117	0.130		0.085	45.52#
27)		2,4-Dimethylph...		0.282	0.281	0.306	0.296	0.278	0.282	0.291	0.288	3.53
28)		bis(2-Chloroet...		0.404	0.386	0.412	0.394	0.366	0.372	0.384	0.388	4.30
29)	C	2,4-Dichloroph...		0.227	0.237	0.273	0.274	0.258	0.265	0.271	0.258	7.17
30)		1,2,4-Trichlor...		0.304	0.291	0.308	0.296	0.277	0.282	0.287	0.292	3.90
31)		Naphthalene		1.024	0.980	1.037	0.988	0.902	0.924	0.914	0.967	5.60
32)		Benzoic acid			0.044	0.076	0.121	0.141	0.162	0.195	0.123	45.23
33)		4-Chloroaniline		0.441	0.424	0.457	0.438	0.406	0.409	0.417	0.427	4.39
34)	C	Hexachlorobuta...		0.165	0.167	0.176	0.166	0.158	0.159	0.161	0.165	3.69
35)		Caprolactam		0.070	0.075	0.090	0.094	0.087	0.090	0.095	0.086	11.00
36)	C	4-Chloro-3-met...		0.252	0.255	0.287	0.291	0.269	0.279	0.286	0.274	5.76
37)		2-Methylnaphth...		0.677	0.657	0.691	0.655	0.596	0.596	0.606	0.640	6.20
38)		1-Methylnaphth...		0.641	0.609	0.639	0.610	0.556	0.565	0.564	0.598	6.03

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF102523.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.597	0.578	0.606	0.571	0.530	0.528	0.544	0.565	5.58
41)	P	Hexachlorocycl...	0.220	0.238	0.282	0.302	0.287	0.301	0.320	0.279	13.07
42)	S	2,4,6-Tribromo...	0.132	0.146	0.180	0.195	0.182	0.193	0.198	0.175	14.72
43)	C	2,4,6-Trichlor...	0.262	0.298	0.350	0.353	0.337	0.348	0.366	0.331	11.23
44)		2,4,5-Trichlor...	0.334	0.352	0.408	0.425	0.397	0.413	0.419	0.393	8.97
45)	S	2-Fluorobiphenyl	1.446	1.362	1.373	1.245	1.117	1.105	1.096	1.249	11.70
46)		1,1'-Biphenyl	1.636	1.558	1.637	1.538	1.408	1.428	1.402	1.515	6.80
47)		2-Chloronaphth...	1.177	1.134	1.190	1.150	1.050	1.071	1.074	1.121	4.98
48)		2-Nitroaniline	0.100	0.141	0.237	0.298	0.301	0.329	0.350	0.251	38.42
49)		Acenaphthylene	1.857	1.788	1.884	1.831	1.655	1.687	1.678	1.768	5.33
50)		Dimethylphthalate	1.346	1.287	1.375	1.333	1.225	1.240	1.273	1.297	4.34
51)		2,6-Dinitrotol...	0.092	0.143	0.223	0.266	0.257	0.271	0.288	0.220	33.74
52)	C	Acenaphthene	1.183	1.128	1.191	1.162	1.067	1.095	1.107	1.133	4.13
53)		3-Nitroaniline	0.125	0.189	0.272	0.315	0.303	0.328	0.343	0.268	30.21
54)	P	2,4-Dinitrophenol		0.021	0.034	0.057	0.067	0.080	0.102	0.060	49.30
55)		Dibenzofuran	1.759	1.661	1.744	1.691	1.530	1.537	1.539	1.637	6.15
56)	P	4-Nitrophenol		0.125	0.200	0.241	0.237	0.254	0.266	0.220	23.44
57)		2,4-Dinitrotol...	0.093	0.148	0.254	0.318	0.320	0.340	0.360	0.262	39.38
58)		Fluorene	1.352	1.292	1.327	1.250	1.120	1.131	1.101	1.225	8.60
59)		2,3,4,6-Tetrac...	0.223	0.262	0.307	0.325	0.303	0.323	0.326	0.295	13.23
60)		Diethylphthalate	1.243	1.203	1.318	1.297	1.182	1.202	1.213	1.237	4.20
61)		4-Chlorophenyl...	0.668	0.617	0.640	0.600	0.540	0.544	0.527	0.591	9.25
62)		4-Nitroaniline	0.132	0.184	0.267	0.311	0.302	0.321	0.342	0.266	29.44
63)		Azobenzene	1.311	1.253	1.346	1.293	1.183	1.192	1.208	1.255	5.07
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.020	0.036	0.058	0.065	0.075	0.086	0.057	43.76
66)	c	n-Nitrosodiphe...	0.629	0.606	0.649	0.622	0.562	0.579	0.583	0.604	5.14
67)		4-Bromophenyl-...	0.205	0.196	0.221	0.214	0.194	0.198	0.204	0.205	4.89
68)		Hexachlorobenzene	0.224	0.215	0.233	0.226	0.207	0.211	0.215	0.219	4.18
69)		Atrazine	0.172	0.166	0.184	0.170	0.153	0.157	0.150	0.165	7.27
70)	C	Pentachlorophenol		0.087	0.119	0.133	0.129	0.135	0.141	0.124	15.65
71)		Phenanthrene	1.072	1.022	1.102	1.051	0.938	0.947	0.951	1.012	6.58
72)		Anthracene	1.088	1.032	1.131	1.085	0.964	0.991	0.962	1.036	6.44
73)		Carbazole	0.958	0.923	1.004	0.969	0.864	0.873	0.879	0.924	5.90
74)		Di-n-butylphth...	0.916	0.953	1.095	1.052	0.951	0.960	0.957	0.983	6.56
75)	C	Fluoranthene	1.107	1.066	1.181	1.109	0.994	0.998	0.997	1.065	6.77
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.450	0.435	0.341	0.483	0.324	0.353	0.313	0.386	17.79
78)		Pyrene	1.513	1.481	1.659	1.779	1.663	1.794	1.867	1.679	8.63
79)	S	Terphenyl-d14	1.157	1.109	1.223	1.265	1.149	1.231	1.245	1.197	4.87
80)		Butylbenzylpht...	0.327	0.406	0.556	0.632	0.600	0.642	0.671	0.548	23.90
81)		Benzo(a)anthra...	1.326	1.299	1.434	1.419	1.304	1.352	1.385	1.360	4.00
82)		3,3'-Dichlorob...	0.362	0.391	0.468	0.436	0.396	0.417	0.425	0.414	8.28
83)		Chrysene	1.277	1.262	1.390	1.386	1.267	1.322	1.368	1.324	4.29
84)		Bis(2-ethylhex...	0.563	0.600	0.733	0.757	0.711	0.725	0.745	0.691	11.12
85)	c	Di-n-octyl pht...		0.817	1.087	1.135	1.103	1.143	1.241	1.088	13.16

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
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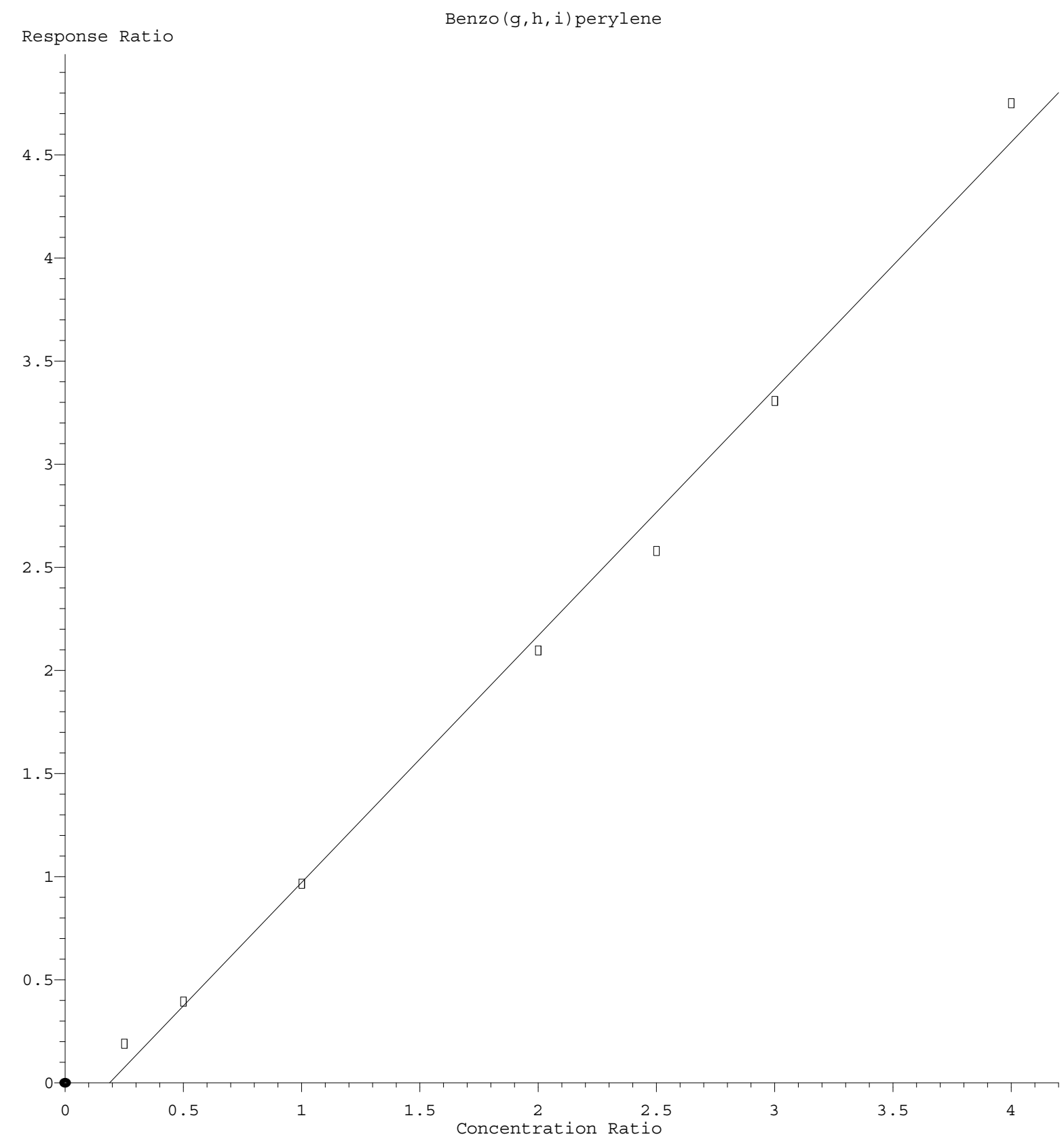
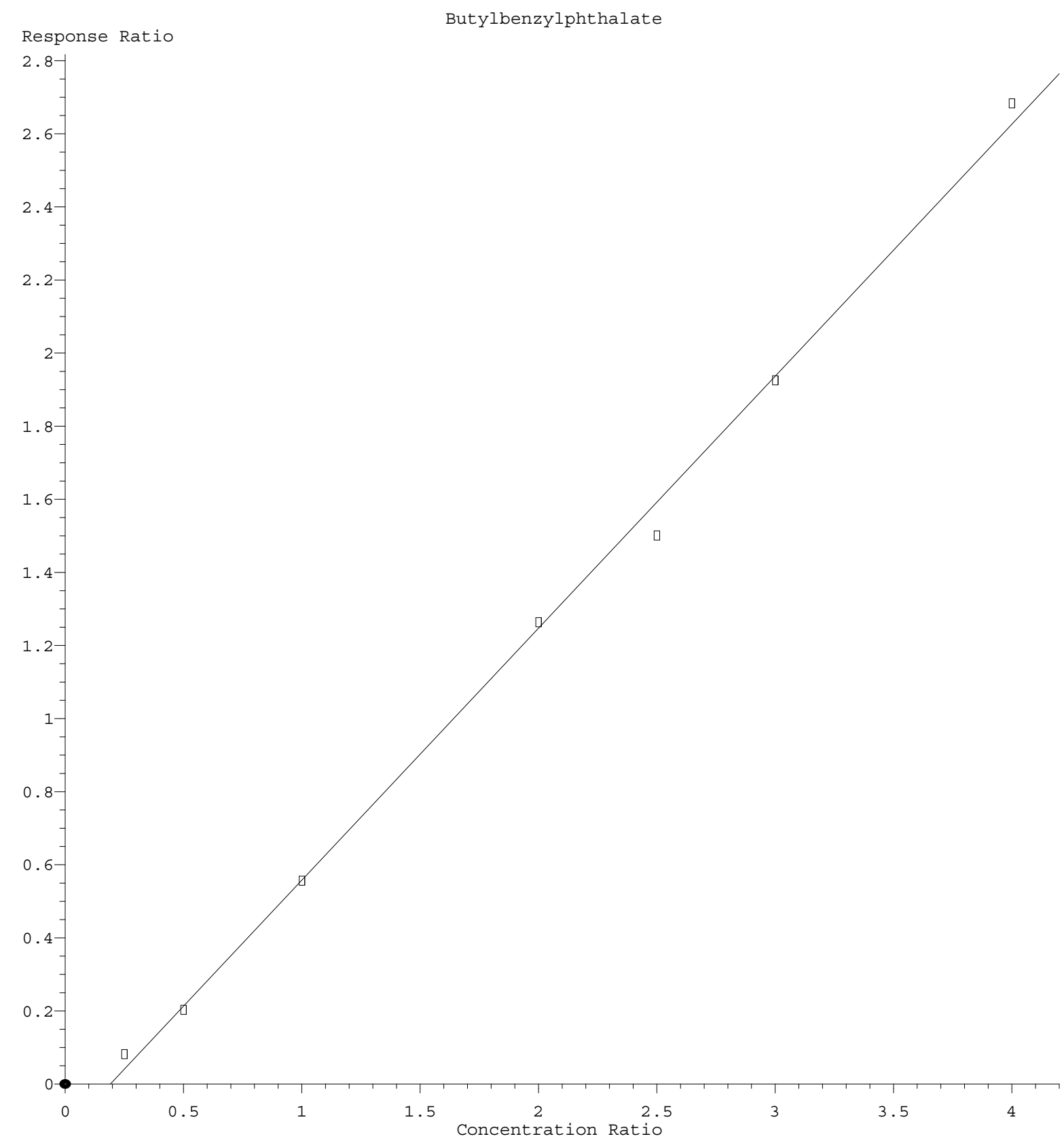
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.906	0.943	1.164	1.263	1.227	1.303	1.134	14.91
88)		Benzo(b)fluora...	1.204	1.181	1.250	1.189	1.114	1.200	1.194	1.190	3.40
89)		Benzo(k)fluora...	1.144	1.183	1.316	1.180	1.145	1.060	1.155	1.169	6.54
90)	C	Benzo(a)pyrene	1.031	1.032	1.168	1.120	1.078	1.093	1.156	1.097	5.00
91)		Dibenzo(a,h)an...	0.775	0.788	0.970	1.037	1.010	1.072	1.138	0.970	14.34
92)		Benzo(g,h,i)pe...	0.757	0.788	0.965	1.048	1.032	1.102	1.188	0.983	16.20

(#) = Out of Range



Response = 1.197e+000 * Amt - 2.248e-001
Coef of Det (r^2) = 0.994370 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



Response = 6.896e-001 * Amt - 1.320e-001
Coef of Det (r^2) = 0.997490 Curve Fit: Linear
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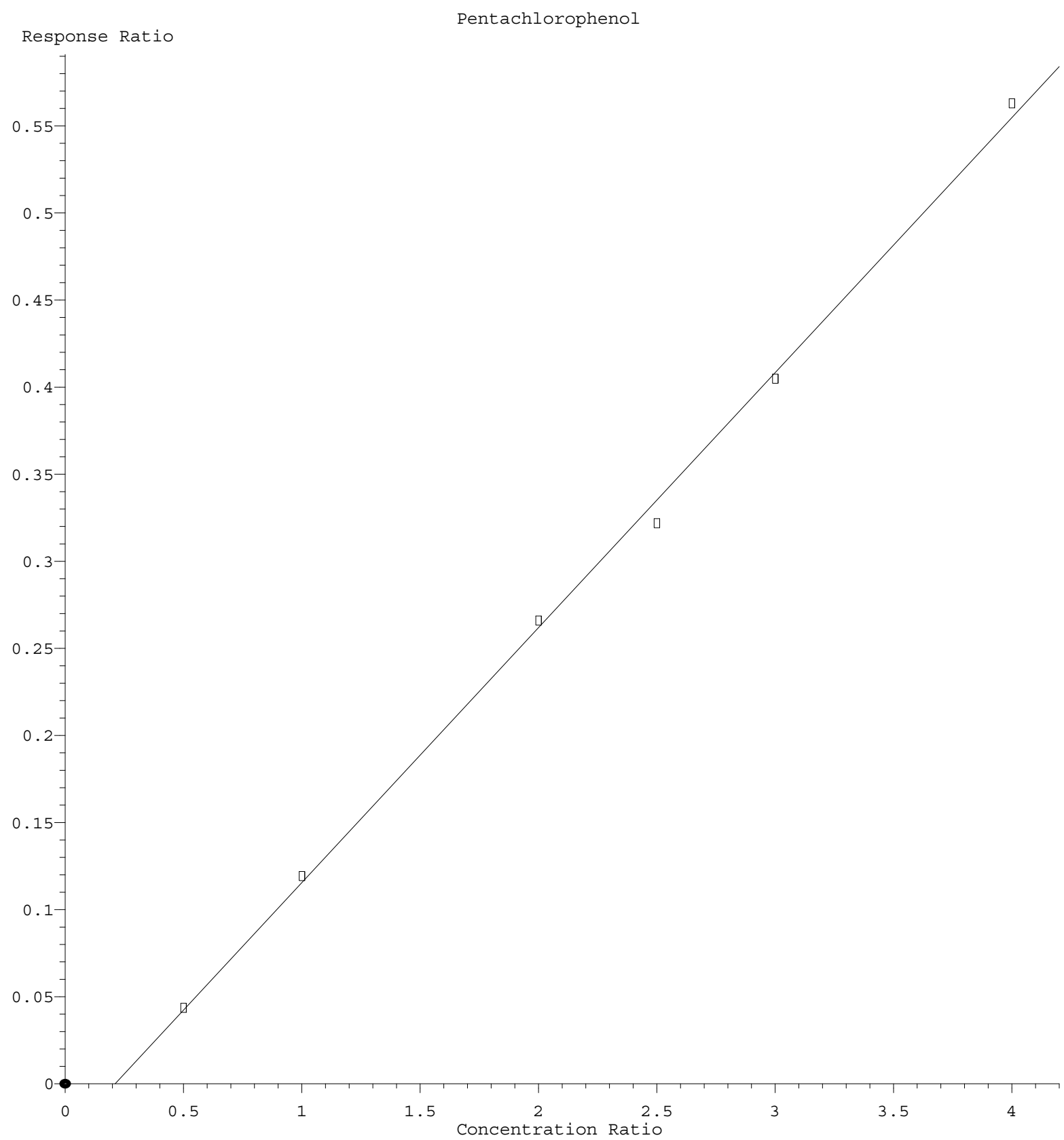
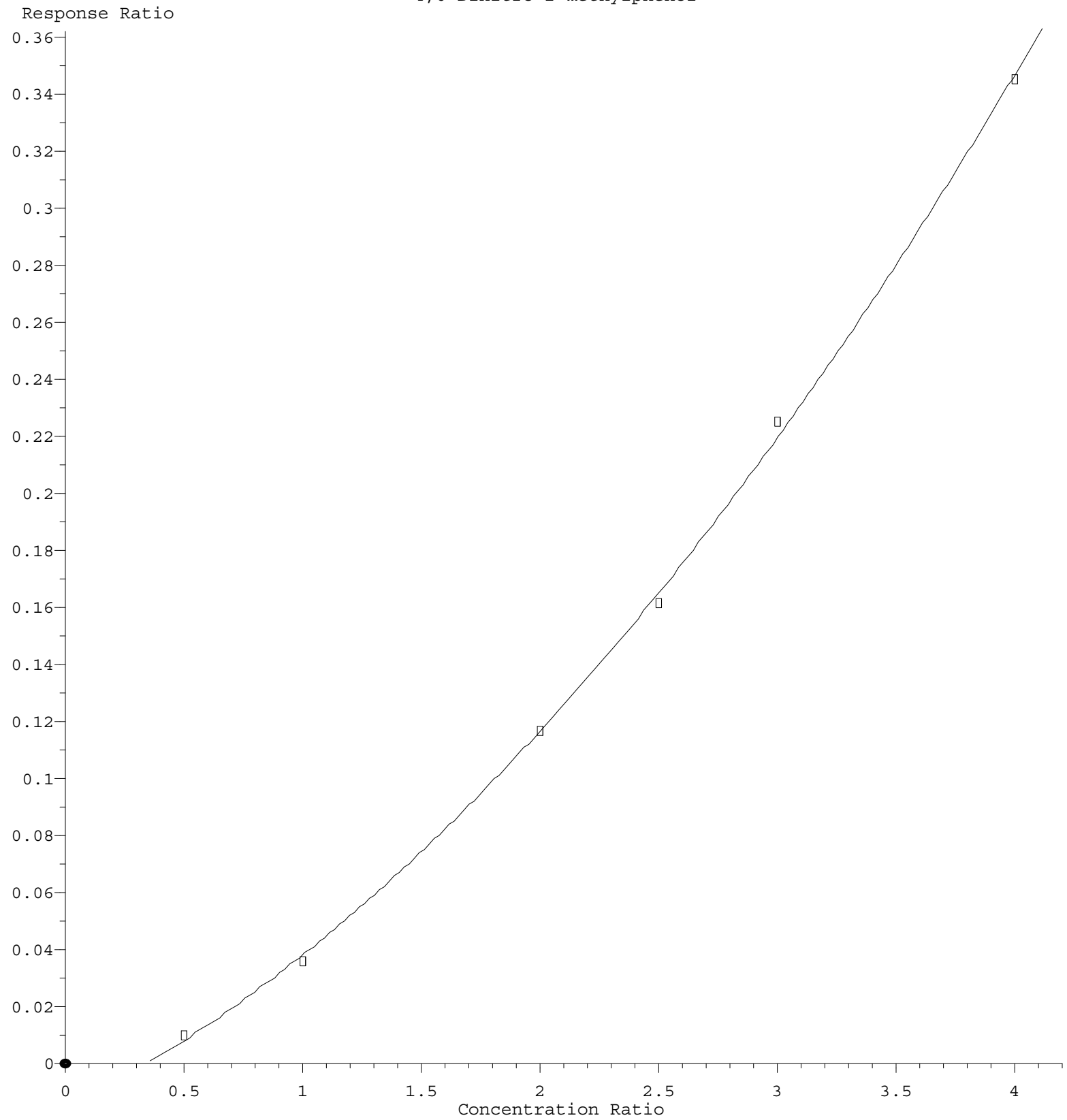
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023

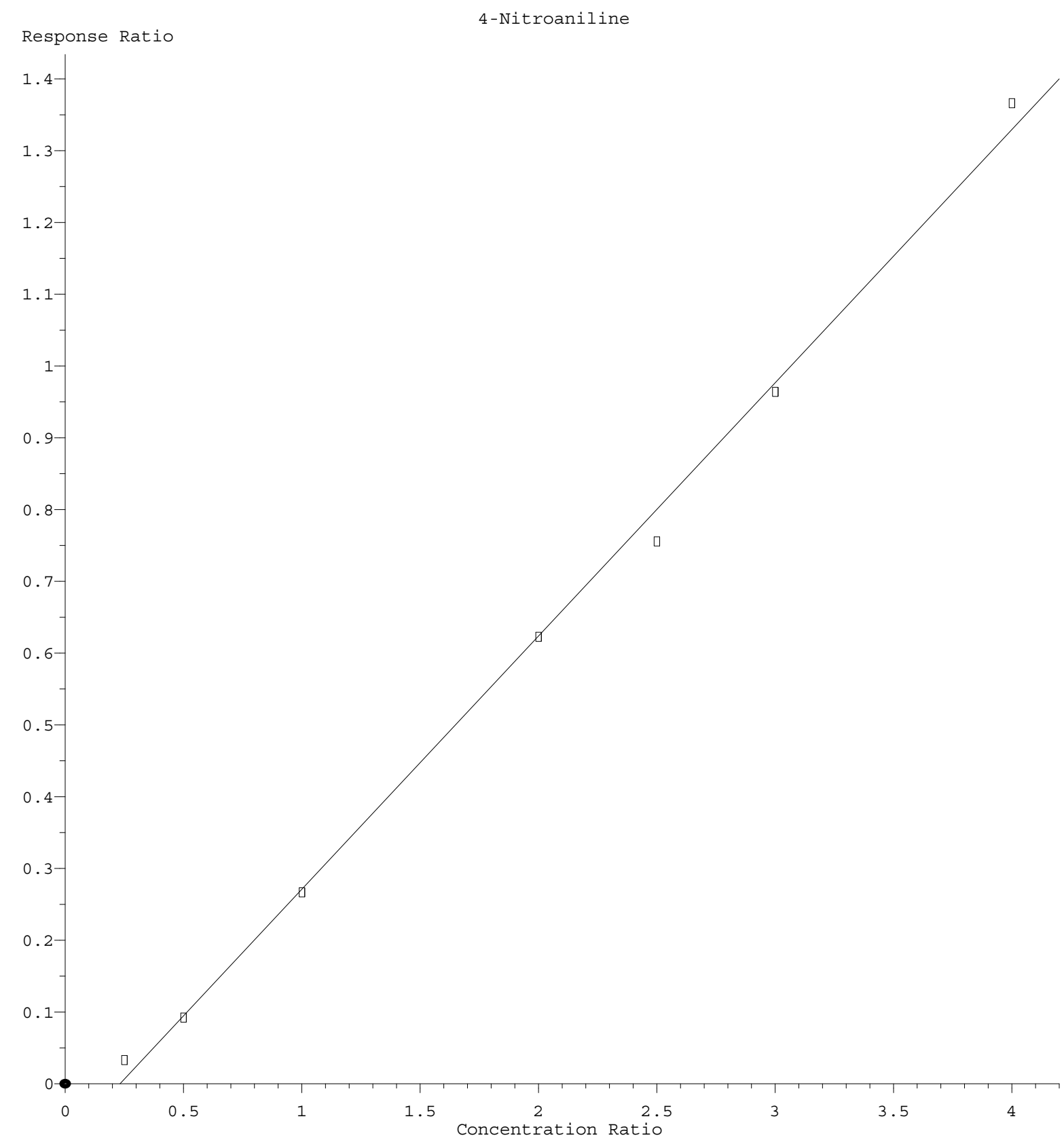


Response = 1.465e-001 * Amt - 3.094e-002
Coef of Det (r^2) = 0.998399 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023

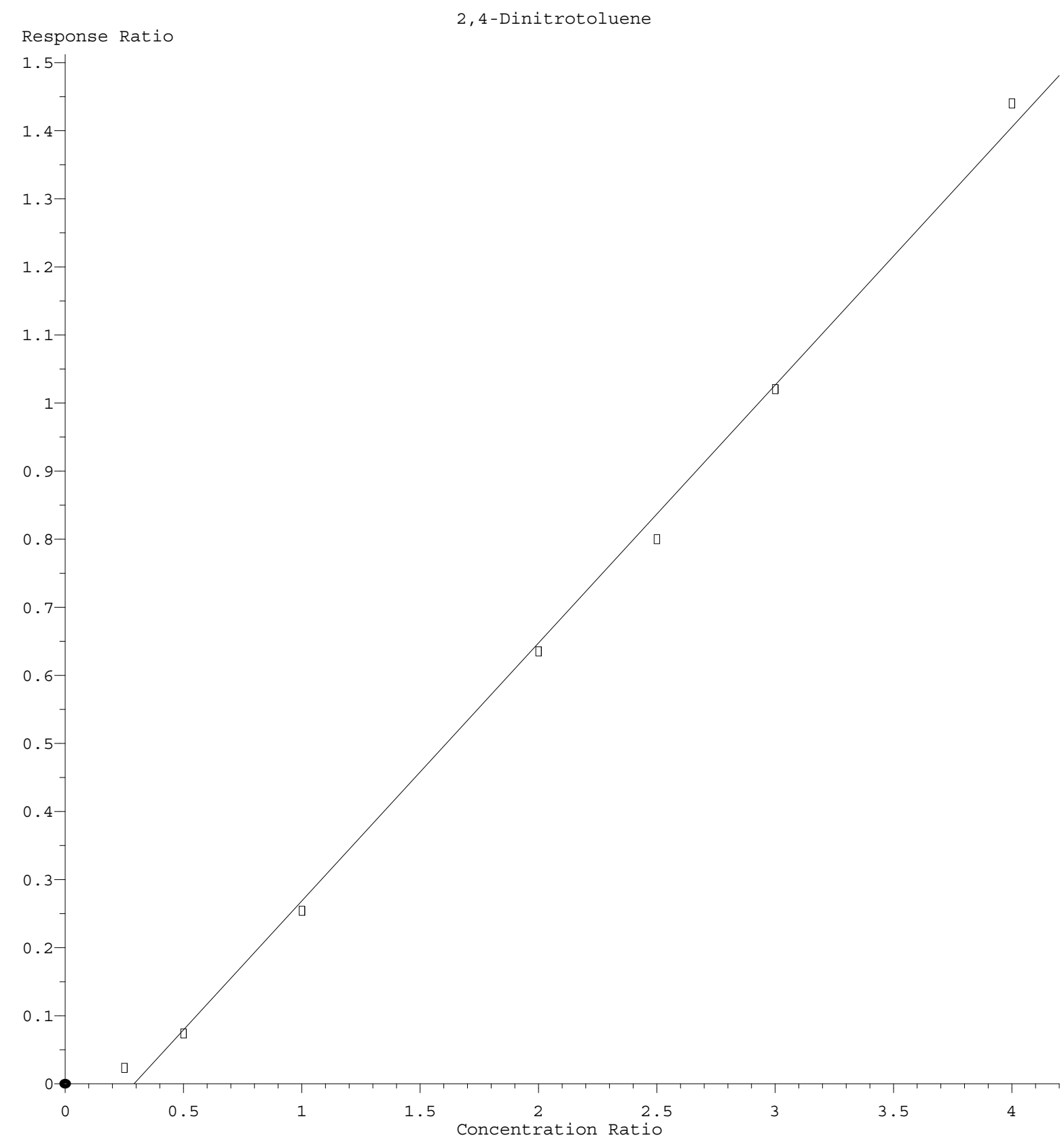
4,6-Dinitro-2-methylphenol



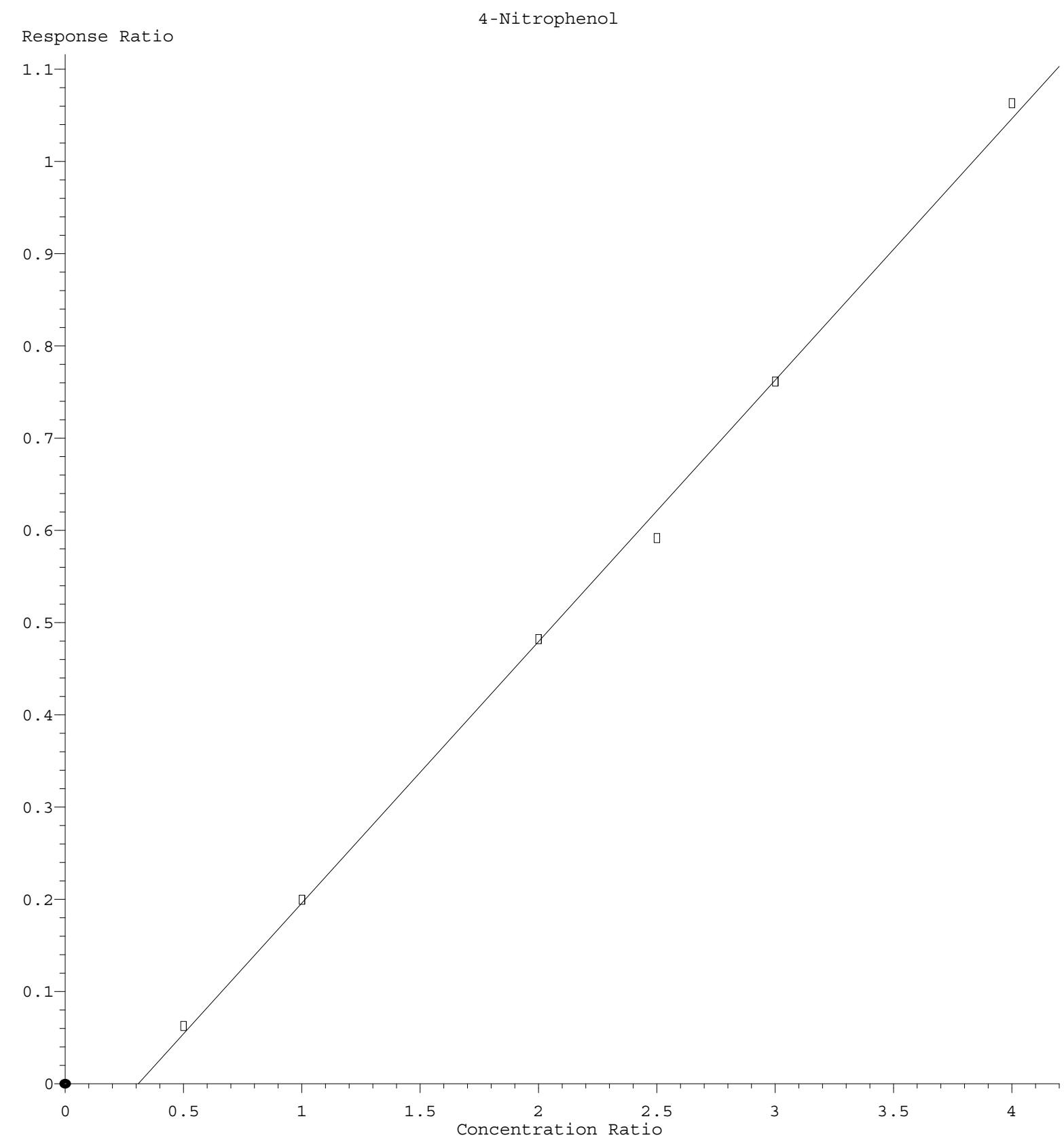
R = 1.221e-002 A*A + 4.187e-002 A - 1.594e-002
Coef of Det (r^2) = 0.999295 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



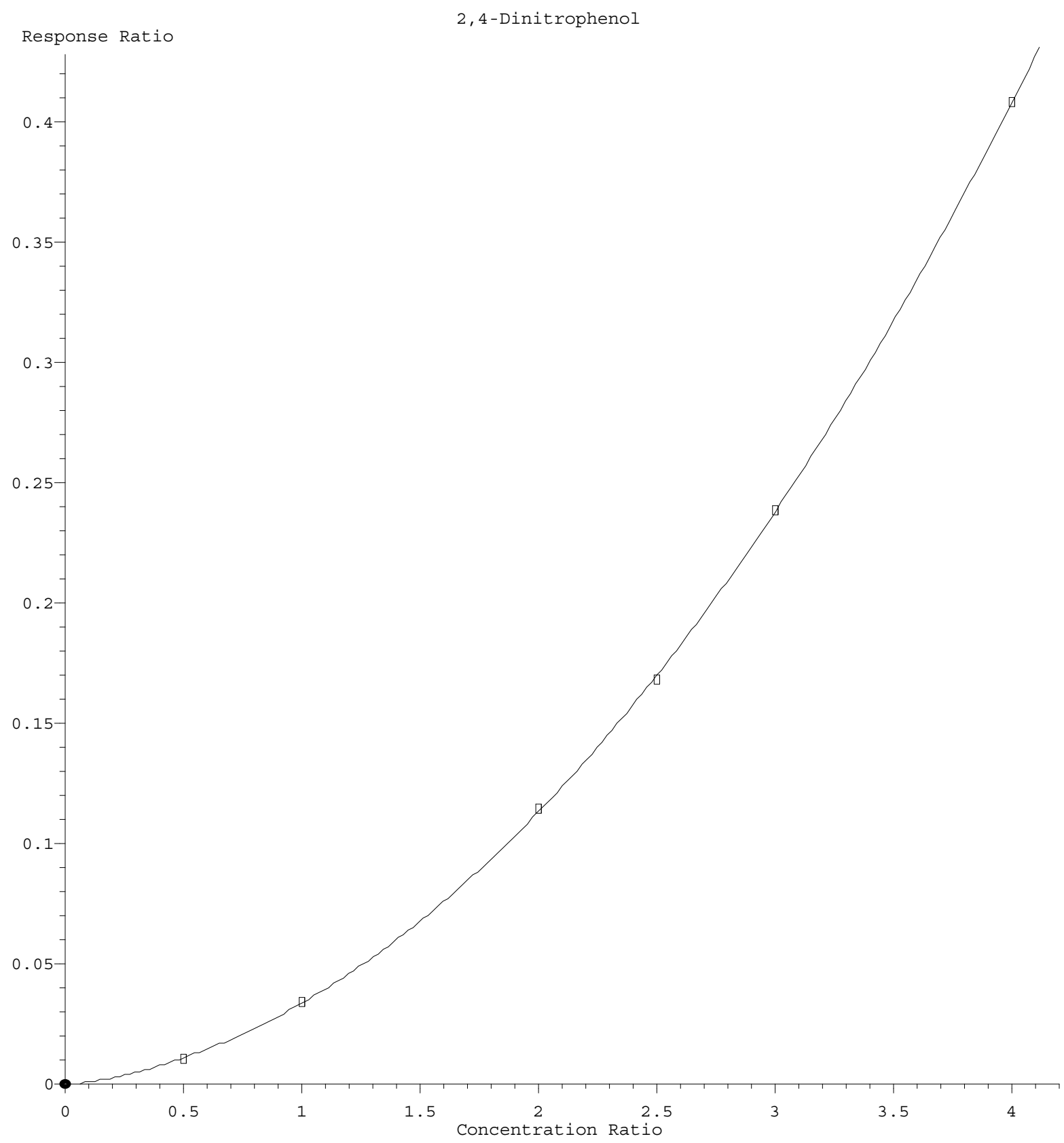
Response = 3.527e-001 * Amt - 8.200e-002
Coef of Det (r^2) = 0.997040 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



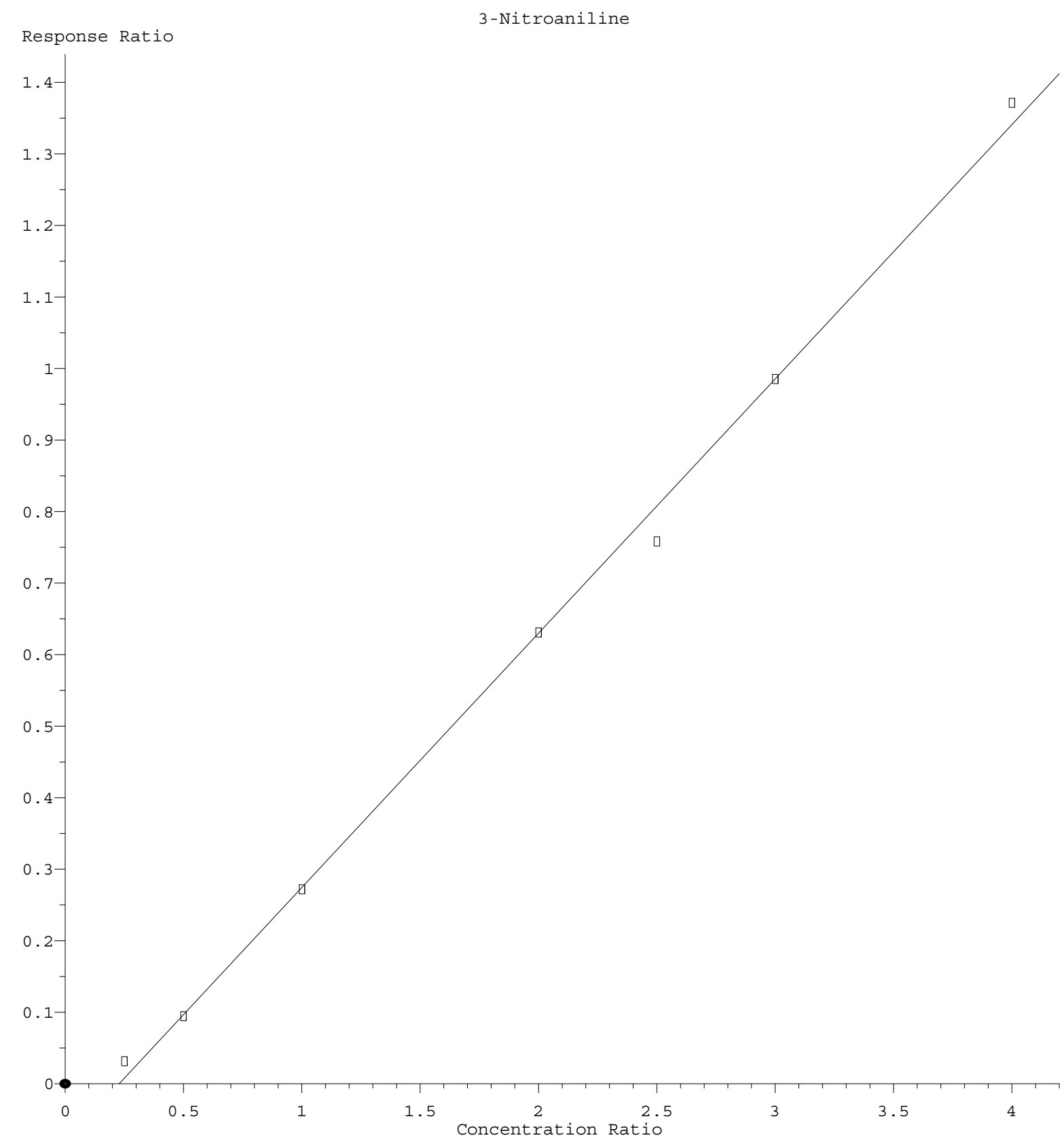
Response = 3.788e-001 * Amt - 1.104e-001
Coef of Det (r^2) = 0.997271 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



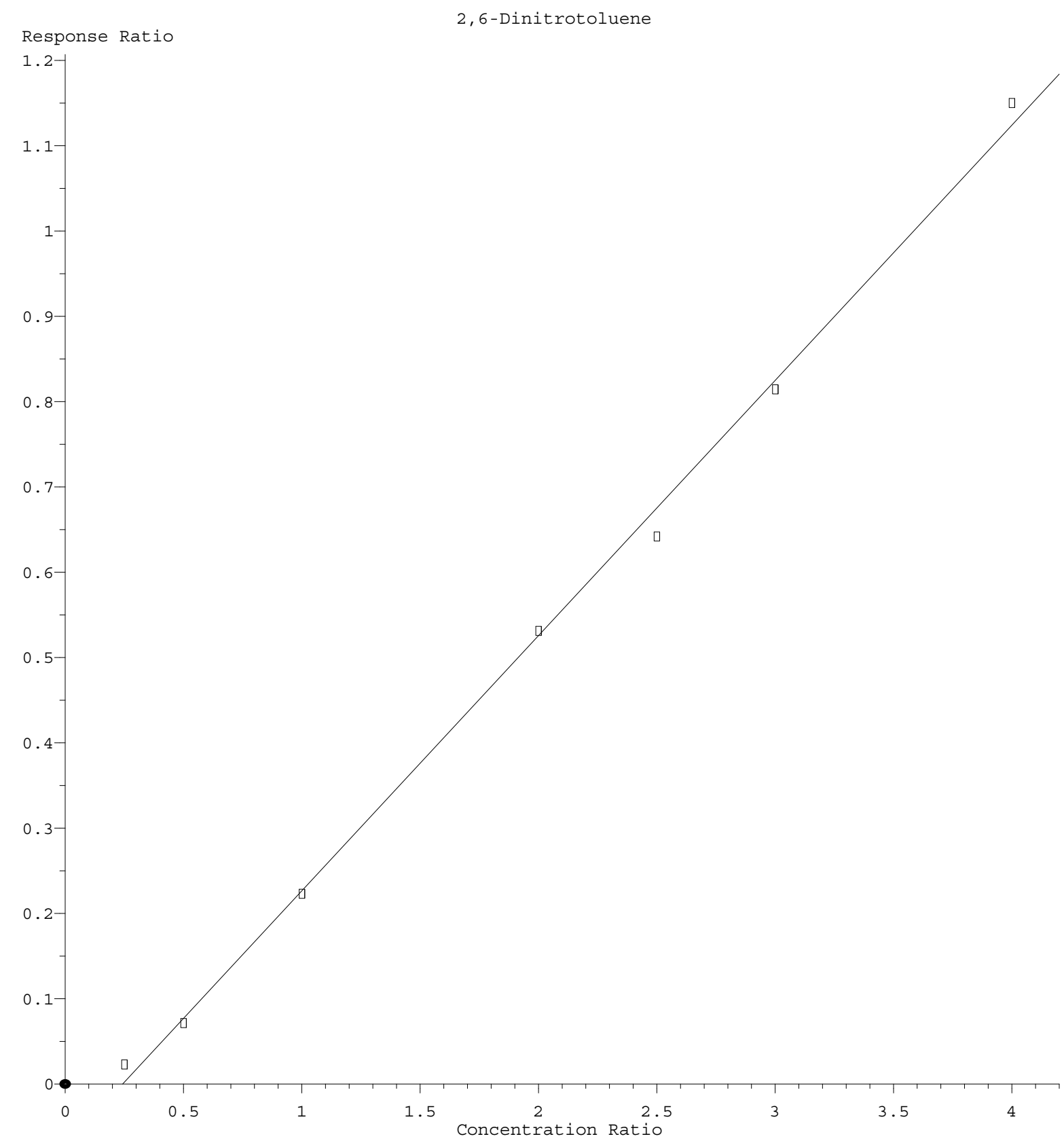
Response = 2.836e-001 * Amt - 8.768e-002
Coef of Det (r^2) = 0.998143 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



R = 2.263e-002 A*A + 1.165e-002 A - 5.867e-004
Coef of Det (r^2) = 0.999949 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



Response = 3.555e-001 * Amt - 8.109e-002
Coef of Det (r^2) = 0.997290 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



Response = 2.992e-001 * Amt - 7.273e-002
Coef of Det (r^2) = 0.997667 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
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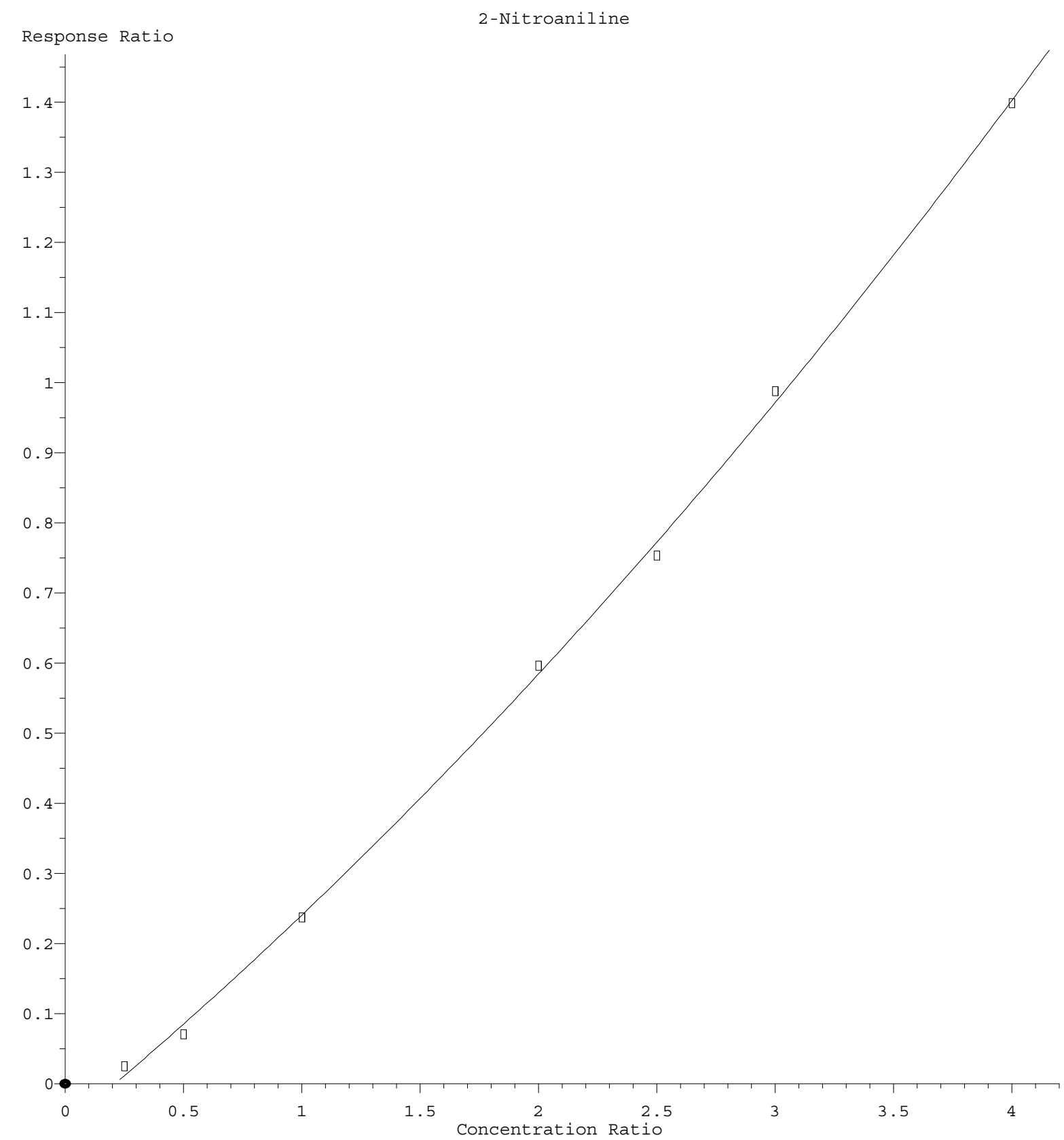
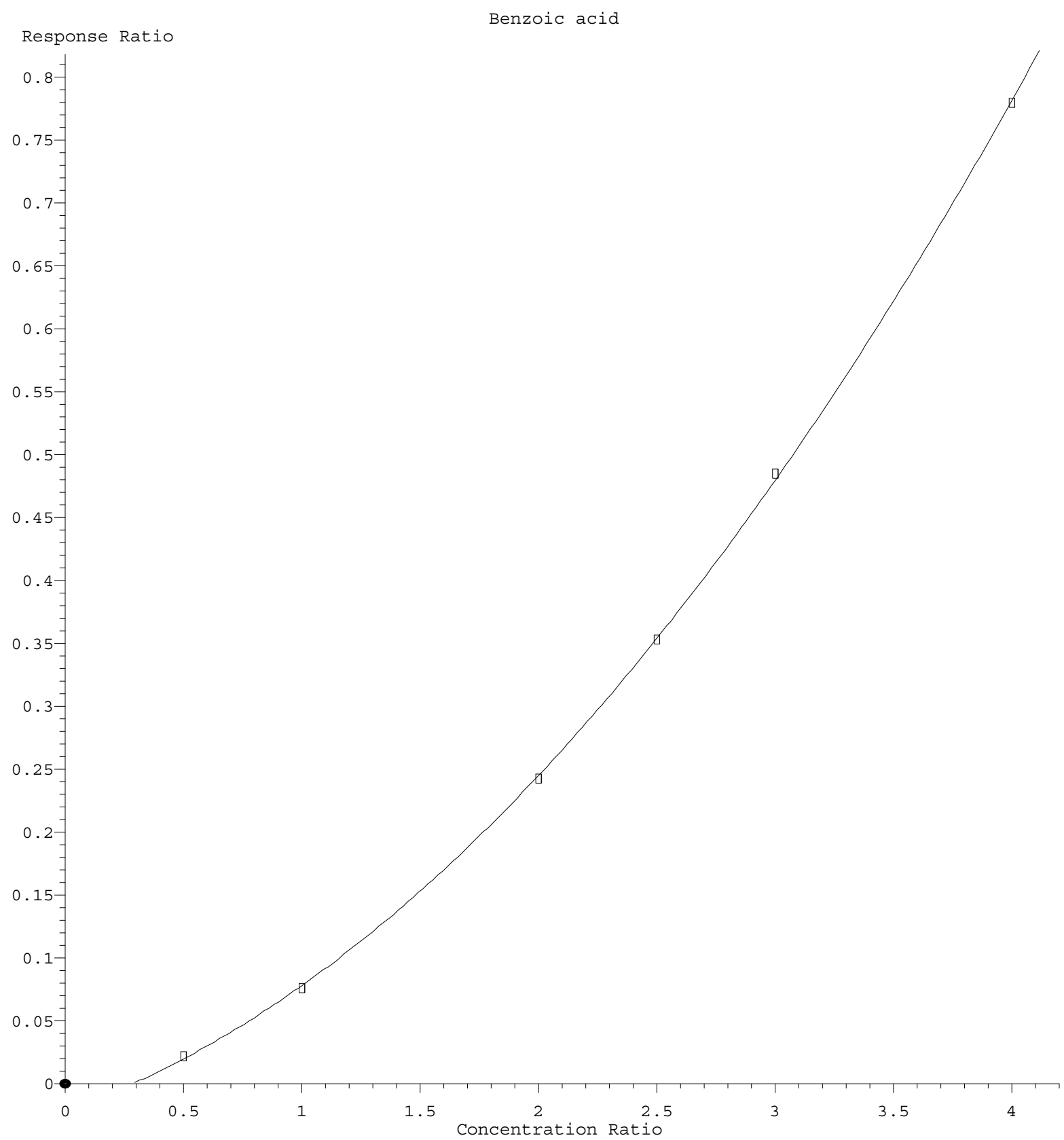
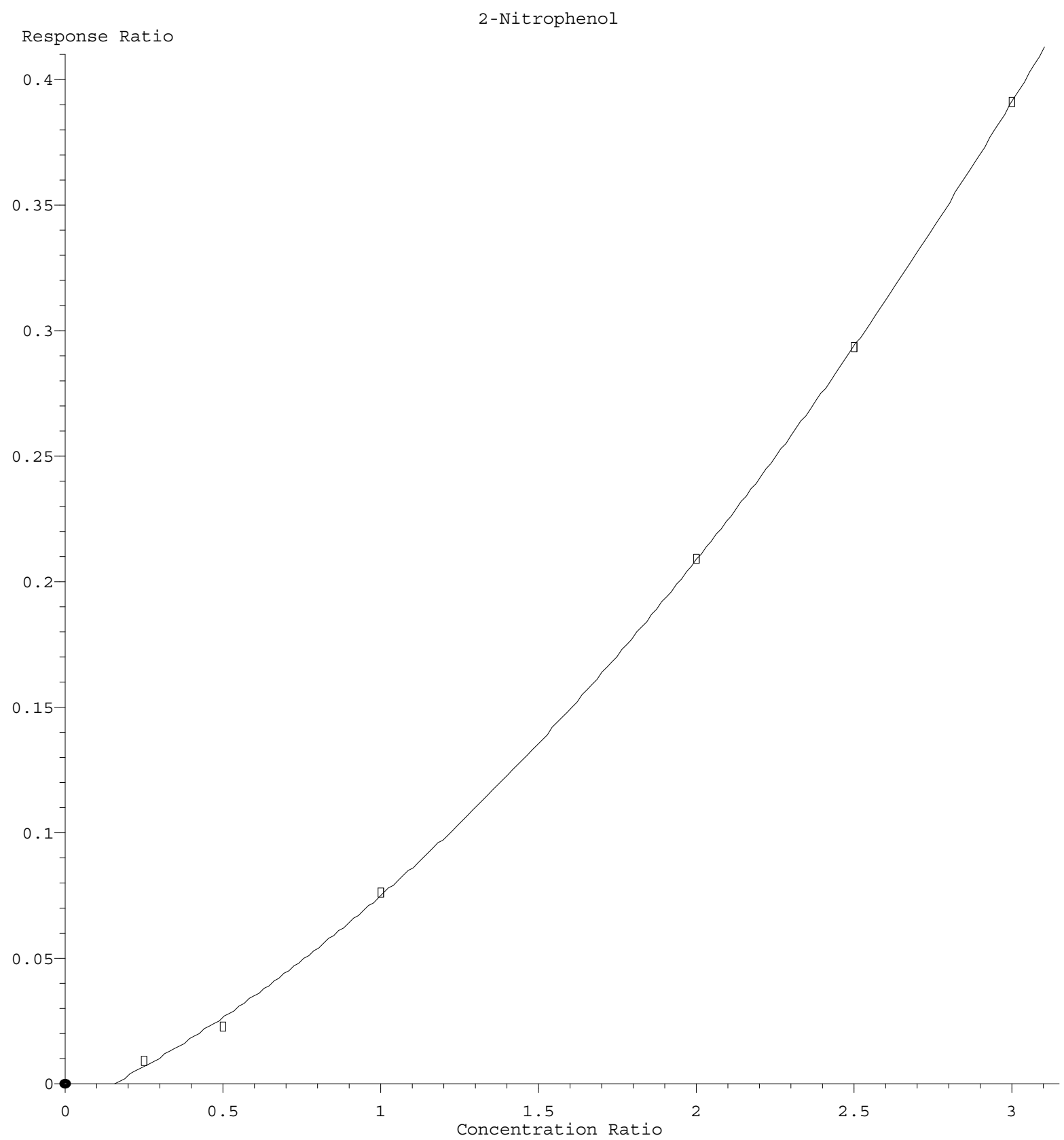


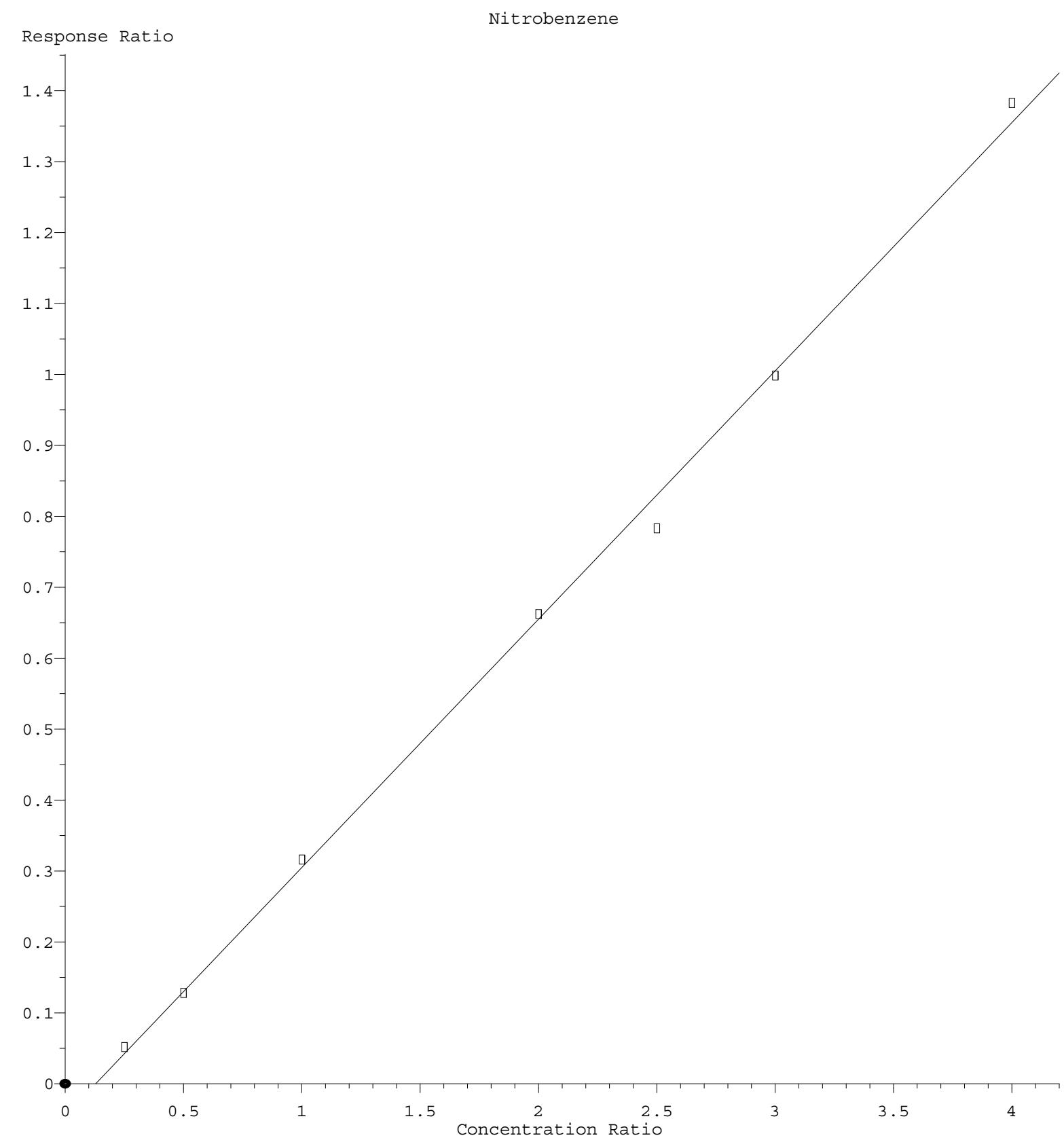
R = 2.177e-002 A*A + 2.784e-001 A - 5.956e-002
Coef of Det (r^2) = 0.999226 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



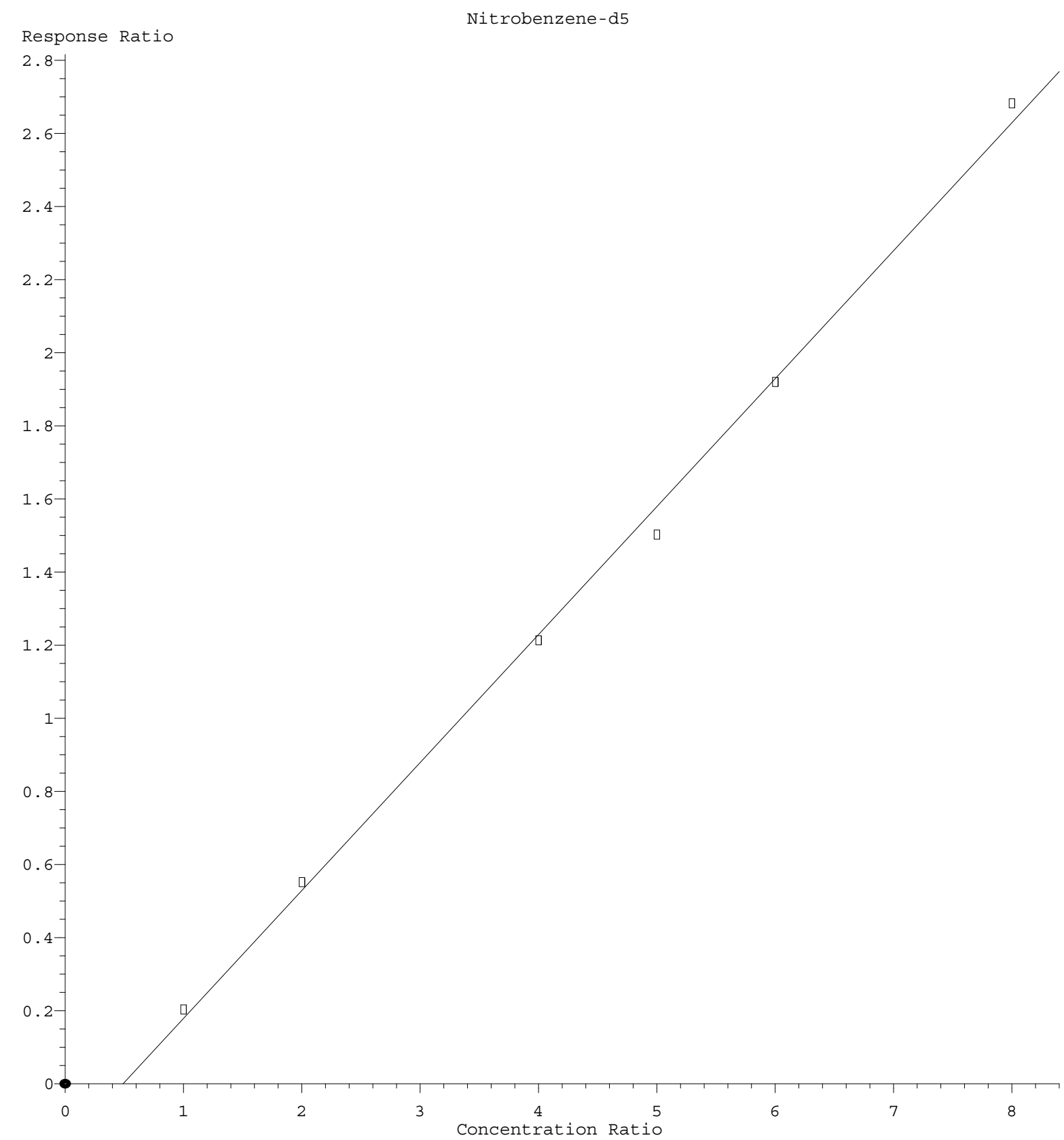
R = 3.374e-002 A*A + 6.579e-002 A - 2.153e-002
Coef of Det (r^2) = 0.999880 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



R = 2.442e-002 A*A + 6.040e-002 A - 9.879e-003
Coef of Det (r^2) = 0.999830 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



Response = 3.500e-001 * Amt - 4.519e-002
Coef of Det (r^2) = 0.997674 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023



Response = 3.500e-001 * Amt - 1.713e-001
Coef of Det (r^2) = 0.997528 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF102523.M
Calibration Table Last Updated: Thu Oct 26 03:58:01 2023