Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 25 23:14:32 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF137140.D 5 =BF137141.D 10 =BF137142.D 20 =BF137143.D 40 =BF137144.D 50 =BF137145.D 60 =BF137146.D 80 =BF1371
47.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.634	0.684	0.688	0.656	0.645	0.649	0.610	0.652	4.22
3)		Pyridine		1.411	1.642	1.672	1.605	1.590	1.596	1.505	1.574	5.64
4)		n-Nitrosodimet...		0.838	0.933	0.973	0.951	0.932	0.924	0.870	0.917	5.14
5)	S	2-Fluorophenol		1.294	1.417	1.468	1.356	1.337	1.329	1.248	1.350	5.45
6)		Aniline		2.010	2.233	2.290	2.186	2.130	2.125	2.015	2.141	4.90
7)	S	Phenol-d6		1.733	1.845	1.921	1.808	1.747	1.734	1.637	1.775	5.18
8)		2-Chlorophenol		1.303	1.403	1.481	1.413	1.394	1.387	1.318	1.386	4.34
9)		Benzaldehyde		0.993	1.071	1.113	0.984	0.915	0.806	0.636	0.931	17.67
10)	C	Phenol		1.999	2.153	2.160	2.057	2.012	1.973	1.839	2.028	5.46
11)		bis(2-Chloroet...		1.443	1.545	1.582	1.492	1.464	1.466	1.356	1.478	4.94
12)		1,3-Dichlorobe...		1.558	1.687	1.698	1.598	1.549	1.541	1.449	1.583	5.53
13)	C	1,4-Dichlorobe...		1.599	1.699	1.720	1.621	1.553	1.558	1.456	1.601	5.65
14)		1,2-Dichlorobe...		1.495	1.599	1.610	1.545	1.480	1.483	1.380	1.513	5.26
15)		Benzyl Alcohol		1.254	1.439	1.547	1.500	1.461	1.478	1.395	1.439	6.56
16)		2,2'-oxybis(1-...		2.634	2.873	2.845	2.661	2.526	2.468	2.253	2.608	8.32
17)		2-Methylphenol		1.129	1.240	1.265	1.206	1.177	1.175	1.120	1.187	4.52
18)		Hexachloroethane		0.483	0.536	0.573	0.560	0.556	0.554	0.521	0.540	5.66
19)	P	n-Nitroso-di-n...	1.212	1.178	1.248	1.267	1.219	1.192	1.173	1.118	1.201	3.89
20)		3+4-Methylphenols		1.438	1.608	1.642	1.541	1.444	1.465	1.365	1.501	6.67
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.589	0.603	0.613	0.570	0.551	0.538	0.516	0.569	6.25
23)	S	Nitrobenzene-d5		0.342	0.392	0.449	0.461	0.450	0.455	0.437	0.427	10.22
24)		Nitrobenzene		0.356	0.404	0.459	0.459	0.448	0.452	0.424	0.429	8.85
25)		Isophorone		0.840	0.876	0.890	0.851	0.828	0.822	0.791	0.842	3.99
26)	C	2-Nitrophenol		0.067	0.094	0.120	0.139	0.146	0.152	0.154	0.125	26.65
27)		2,4-Dimethylph...		0.246	0.268	0.270	0.256	0.251	0.251	0.242	0.255	4.13
28)		bis(2-Chloroet...		0.476	0.482	0.506	0.480	0.468	0.467	0.444	0.475	3.94
29)	C	2,4-Dichloroph...		0.289	0.308	0.328	0.316	0.306	0.306	0.290	0.306	4.55
30)		1,2,4-Trichlor...		0.355	0.378	0.391	0.367	0.354	0.351	0.328	0.361	5.74
31)		Naphthalene		1.095	1.150	1.150	1.086	1.052	1.049	0.978	1.080	5.62
32)		Benzoic acid			0.089	0.123	0.144	0.160	0.177	0.186	0.147	24.57
33)		4-Chloroaniline		0.396	0.423	0.438	0.414	0.407	0.400	0.376	0.408	4.88
34)	C	Hexachlorobuta...		0.238	0.254	0.256	0.240	0.236	0.230	0.216	0.239	5.82
35)		Caprolactam		0.083	0.090	0.096	0.094	0.095	0.094	0.095	0.092	5.21
36)	C	4-Chloro-3-met...		0.328	0.349	0.372	0.363	0.348	0.347	0.333	0.349	4.41
37)		2-Methylnaphth...		0.741	0.770	0.768	0.734	0.713	0.705	0.660	0.727	5.32
38)		1-Methylnaphth...		0.689	0.705	0.724	0.685	0.659	0.658	0.611	0.676	5.50

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.702	0.718	0.722	0.686	0.671	0.649	0.611	0.680	5.88
41)	P	Hexachlorocycl...	0.185	0.219	0.275	0.305	0.313	0.321	0.315	0.276	19.41
42)	S	2,4,6-Tribromo...	0.179	0.200	0.217	0.223	0.223	0.218	0.214	0.210	7.51
43)	C	2,4,6-Trichlor...	0.357	0.397	0.416	0.416	0.408	0.412	0.393	0.400	5.23
44)		2,4,5-Trichlor...	0.390	0.424	0.445	0.444	0.441	0.436	0.424	0.429	4.48
45)	S	2-Fluorobiphenyl	1.510	1.576	1.570	1.437	1.372	1.339	1.252	1.437	8.55
46)		1,1'-Biphenyl	1.597	1.715	1.699	1.608	1.557	1.539	1.447	1.594	5.84
47)		2-Chloronaphth...	1.188	1.228	1.249	1.190	1.155	1.129	1.078	1.174	5.00
48)		2-Nitroaniline	0.175	0.234	0.323	0.380	0.396	0.402	0.408	0.331	27.94
49)		Acenaphthylene	1.901	1.969	2.025	1.903	1.859	1.821	1.728	1.886	5.15
50)		Dimethylphthalate	1.331	1.386	1.407	1.378	1.354	1.338	1.288	1.354	2.95
51)		2,6-Dinitrotol...	0.132	0.192	0.245	0.267	0.275	0.283	0.275	0.239	23.56
52)	C	Acenaphthene	1.169	1.194	1.236	1.171	1.156	1.144	1.102	1.168	3.59
53)		3-Nitroaniline	0.156	0.204	0.254	0.270	0.282	0.282	0.284	0.247	19.81
54)	P	2,4-Dinitrophenol		0.041	0.061	0.085	0.097	0.111	0.122	0.086	35.45
55)		Dibenzofuran	1.785	1.875	1.891	1.784	1.720	1.692	1.582	1.761	6.11
56)	P	4-Nitrophenol	0.130	0.163	0.198	0.212	0.222	0.227	0.225	0.197	18.74
57)		2,4-Dinitrotol...	0.151	0.202	0.279	0.328	0.348	0.362	0.357	0.290	28.76
58)		Fluorene	1.420	1.475	1.463	1.350	1.292	1.257	1.193	1.350	8.00
59)		2,3,4,6-Tetrac...	0.324	0.358	0.395	0.400	0.391	0.379	0.373	0.374	7.02
60)		Diethylphthalate	1.260	1.366	1.404	1.372	1.321	1.311	1.264	1.328	4.14
61)		4-Chlorophenyl...	0.702	0.732	0.737	0.682	0.643	0.628	0.585	0.673	8.38
62)		4-Nitroaniline	0.159	0.212	0.253	0.272	0.277	0.277	0.277	0.247	18.41
63)		Azobenzene	1.567	1.635	1.642	1.557	1.506	1.487	1.434	1.547	4.96
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.038	0.055	0.070	0.076	0.086	0.087	0.069	27.90
66)	c	n-Nitrosodiphe...	0.605	0.639	0.658	0.633	0.601	0.607	0.548	0.613	5.77
67)		4-Bromophenyl-...	0.228	0.244	0.242	0.235	0.227	0.230	0.208	0.230	5.08
68)		Hexachlorobenzene	0.237	0.250	0.262	0.247	0.238	0.243	0.220	0.242	5.35
69)		Atrazine	0.169	0.192	0.214	0.206	0.204	0.205	0.192	0.198	7.51
70)	C	Pentachlorophenol	0.102	0.119	0.144	0.150	0.151	0.155	0.146	0.138	14.42
71)		Phenanthrene	1.113	1.134	1.127	1.066	1.018	1.018	0.931	1.058	6.99
72)		Anthracene	1.092	1.144	1.161	1.091	1.059	1.043	0.957	1.078	6.31
73)		Carbazole	0.931	0.977	0.985	0.936	0.899	0.886	0.830	0.921	5.87
74)		Di-n-butylphth...	0.789	0.926	1.042	1.017	1.011	1.017	0.946	0.964	9.10
75)	C	Fluoranthene	1.124	1.165	1.201	1.108	1.061	1.045	0.984	1.098	6.77
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.246	0.368	0.447	0.441	0.429	0.396	0.388	19.55
78)		Pyrene	1.622	1.769	1.817	1.886	1.828	1.897	1.806	1.804	5.09
79)	S	Terphenyl-d14	1.315	1.413	1.429	1.435	1.385	1.442	1.371	1.399	3.23
80)		Butylbenzylpht...	0.112	0.166	0.251	0.335	0.373	0.417	0.463	0.302	43.25
81)		Benzo(a)anthra...	1.376	1.468	1.534	1.500	1.462	1.487	1.415	1.463	3.62
82)		3,3'-Dichlorob...	0.237	0.306	0.392	0.408	0.400	0.405	0.385	0.362	18.09
83)		Chrysene	1.334	1.421	1.437	1.408	1.368	1.397	1.342	1.387	2.85
84)		Bis(2-ethylhex...	0.219	0.309	0.431	0.535	0.587	0.642	0.668	0.484	35.33
85)	c	Di-n-octyl pht...		0.411	0.618	0.825	0.900	0.994	1.044	0.799	30.29#

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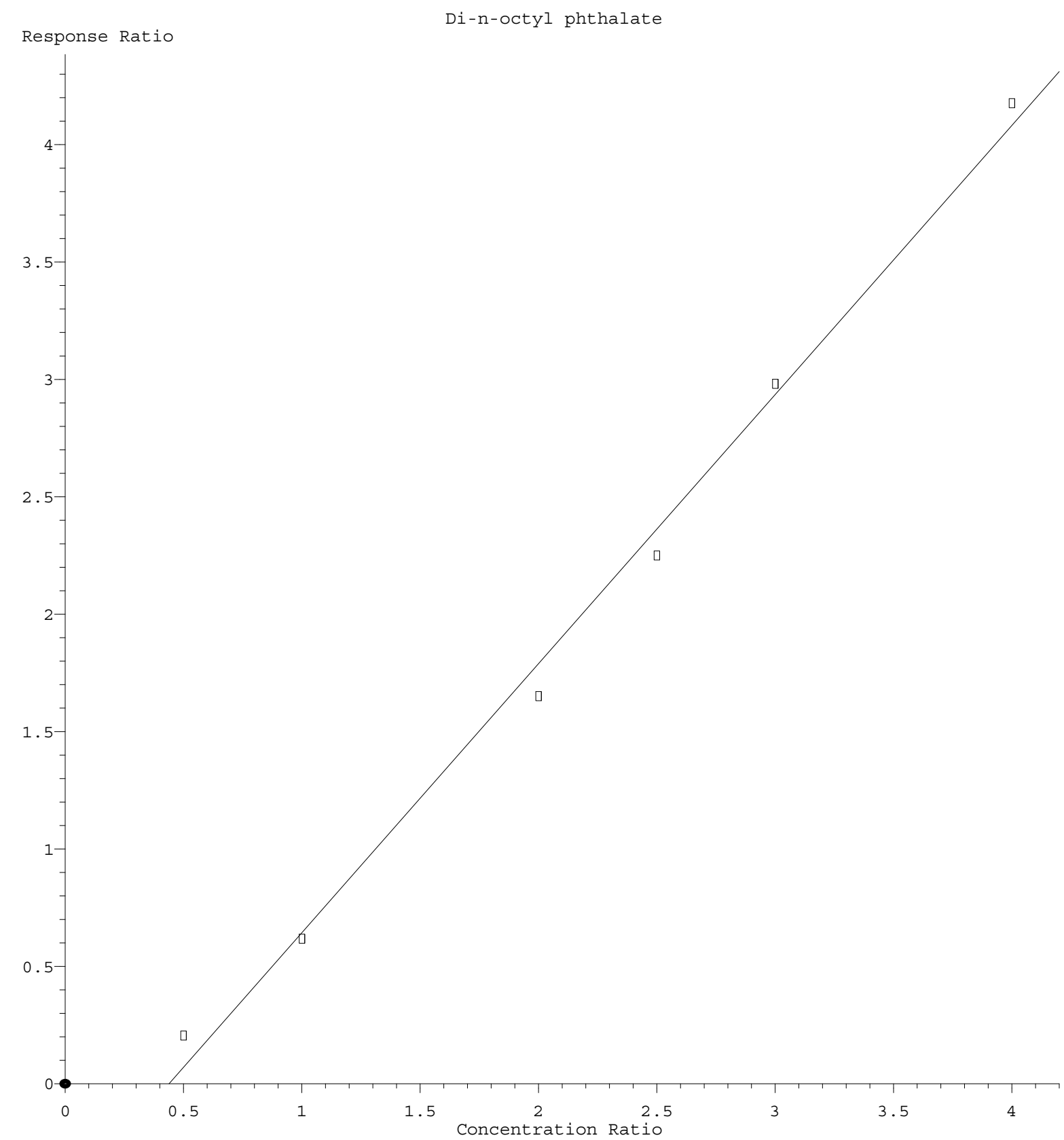
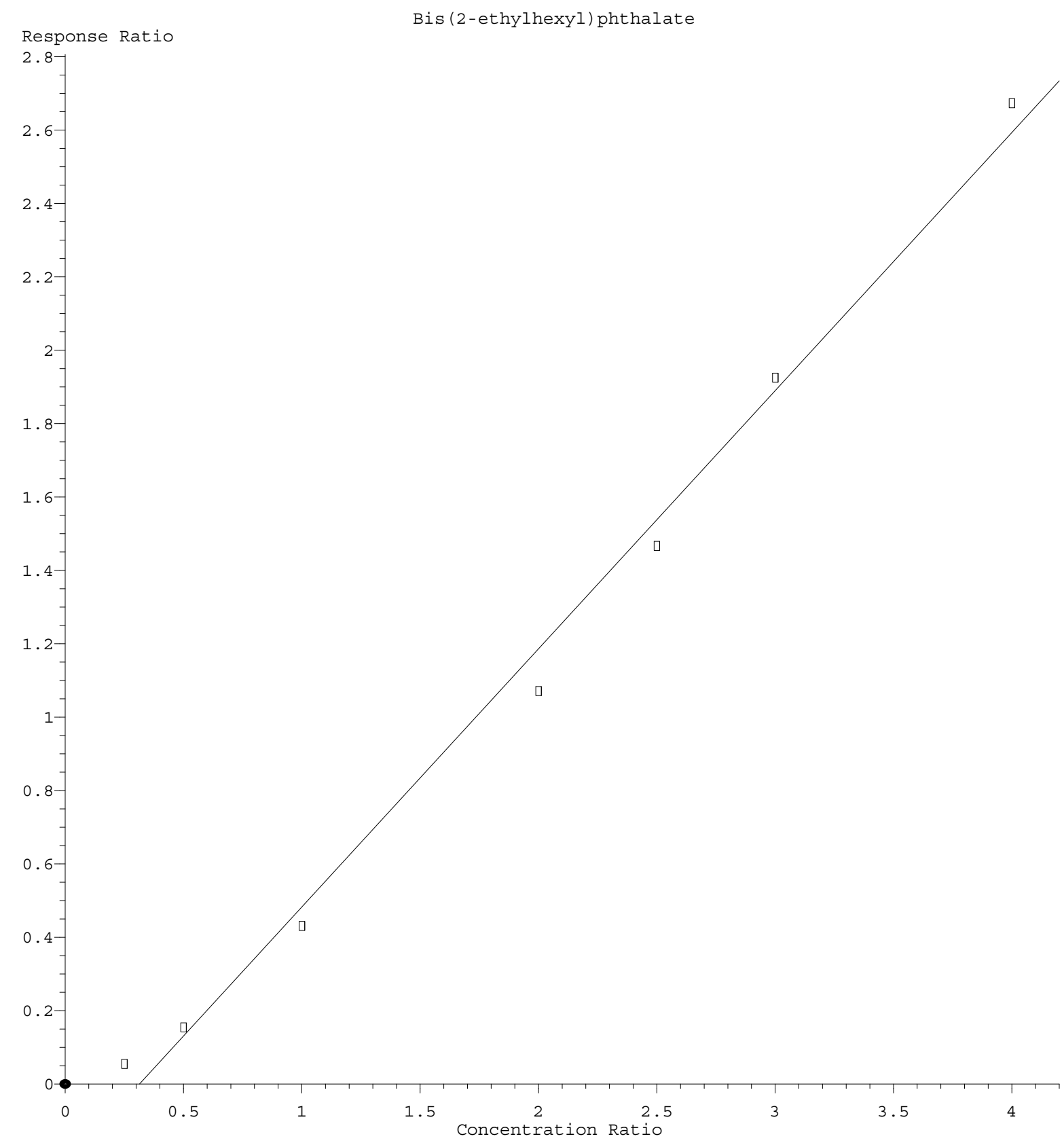
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.065	1.221	1.356	1.468	1.426	1.477	1.385	1.343	11.15
88)		Benzo(b)fluora...	1.286	1.388	1.395	1.339	1.298	1.263	1.217	1.312	4.98
89)		Benzo(k)fluora...	1.282	1.333	1.437	1.270	1.266	1.263	1.124	1.282	7.28
90)	C	Benzo(a)pyrene	1.070	1.183	1.249	1.195	1.166	1.160	1.091	1.159	5.29
91)		Dibenzo(a,h)an...	0.841	0.991	1.105	1.184	1.149	1.190	1.115	1.082	11.60
92)		Benzo(g,h,i)pe...	0.815	0.922	1.048	1.142	1.118	1.165	1.086	1.042	12.32

(#) = Out of Range



Response = 1.146e+000 * Amt - 5.035e-001
Coef of Det (r^2) = 0.994387 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
Calibration Table Last Updated: Thu Jan 25 23:14:32 2024



Response = 7.036e-001 * Amt - 2.211e-001
Coef of Det (r^2) = 0.993154 Curve Fit: Linear
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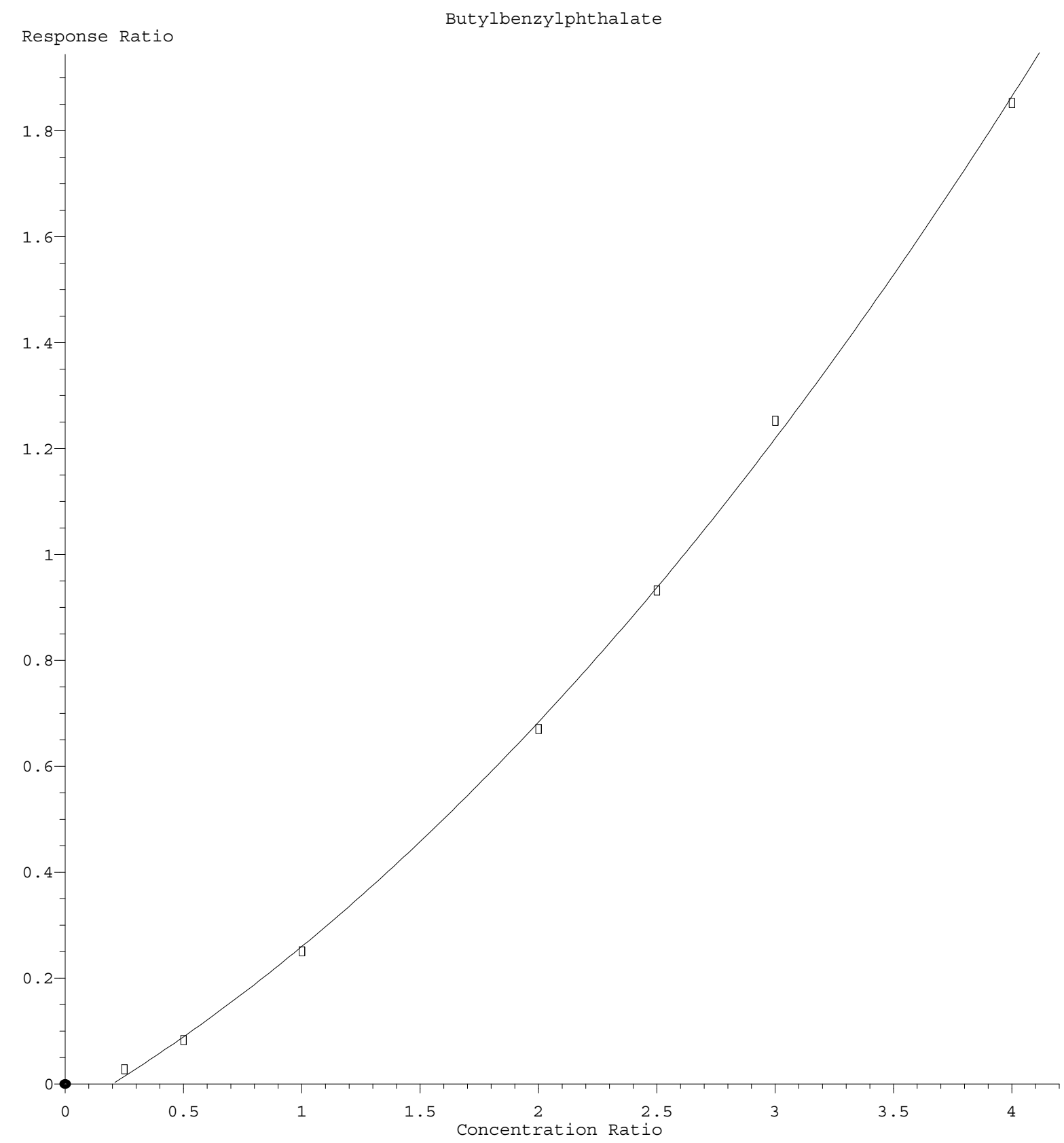
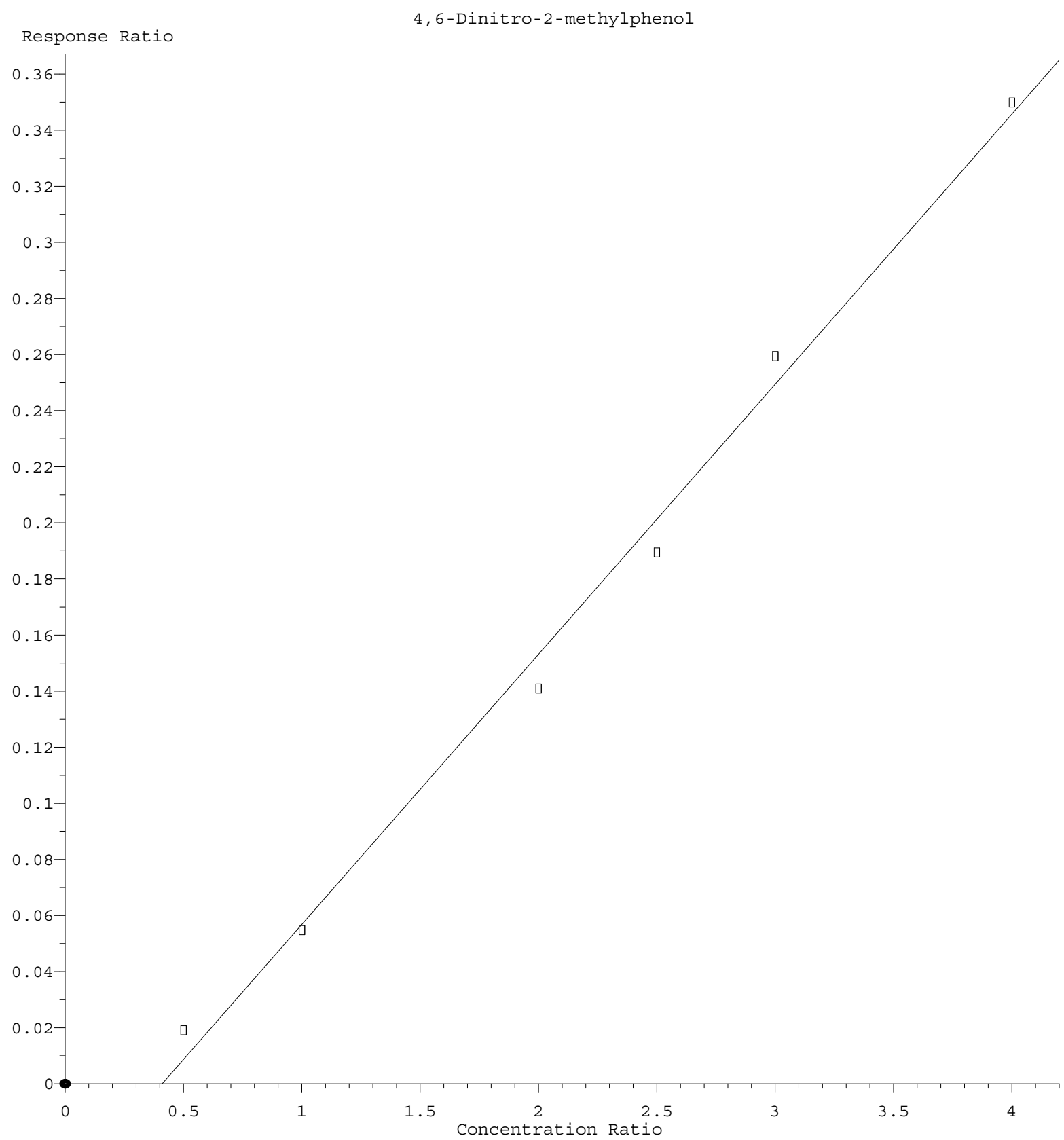
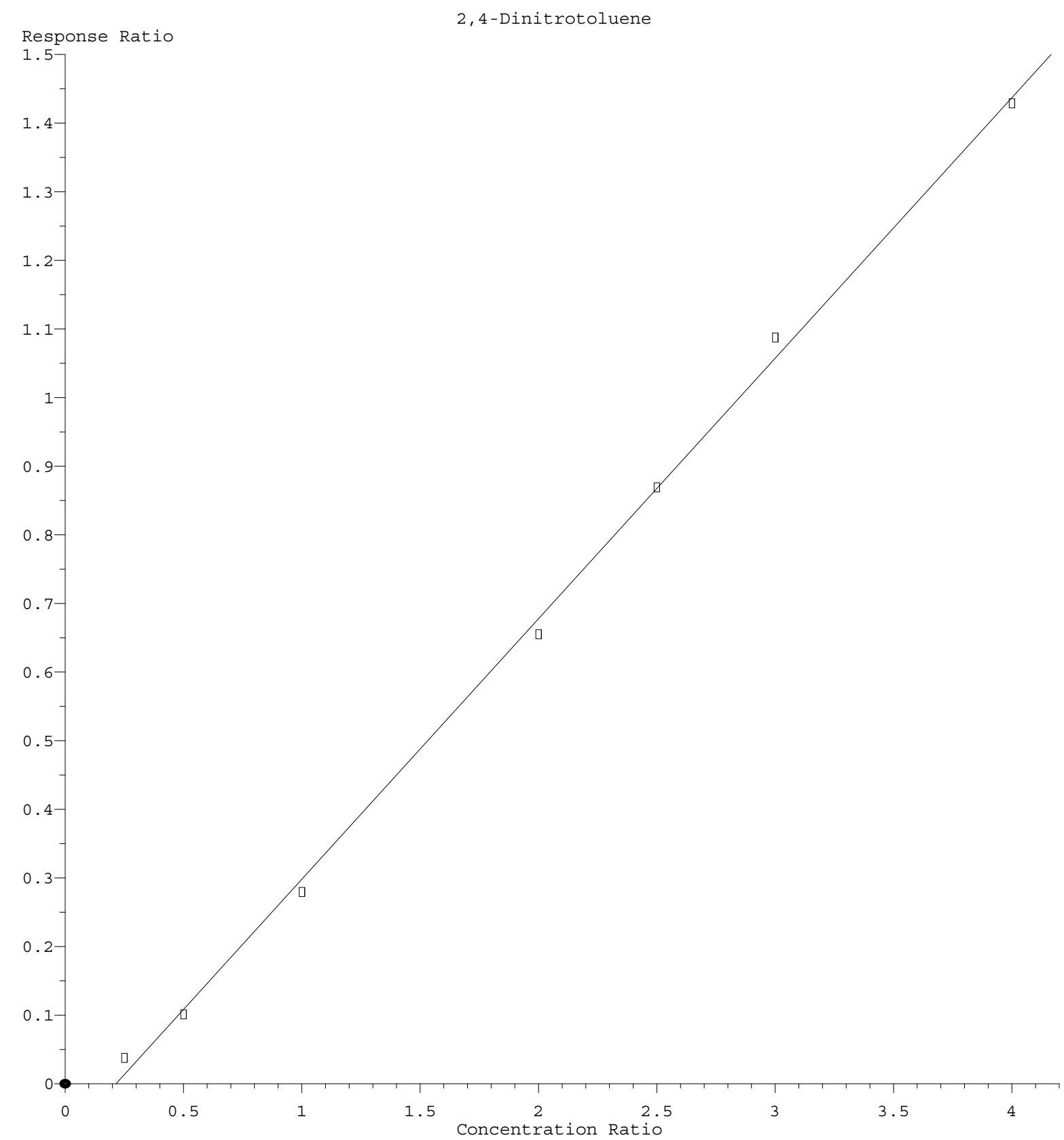
Calibration Table Last Updated: Thu Jan 25 23:14:32 2024



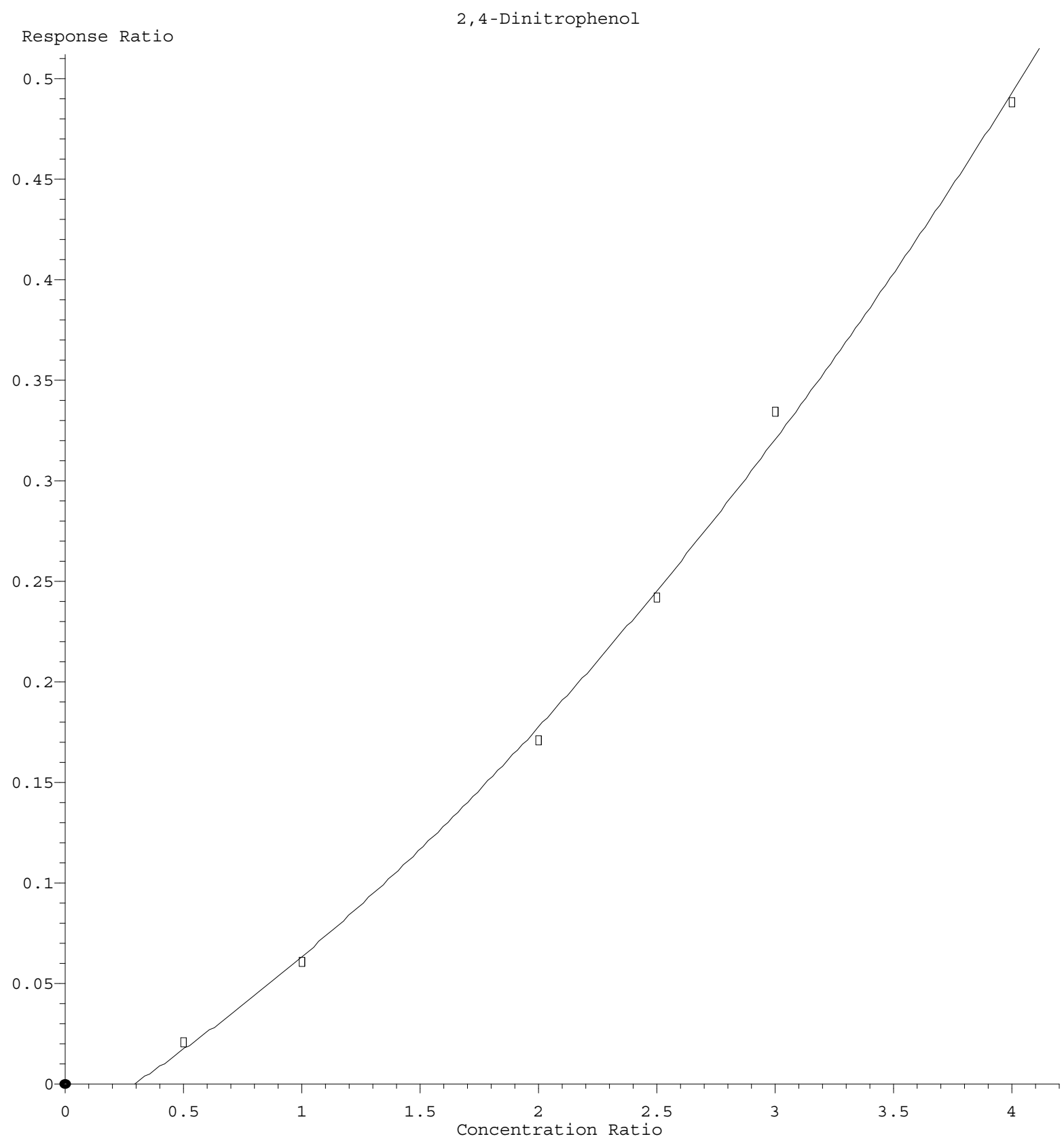
R = 5.548e-002 A*A + 2.576e-001 A - 5.348e-002
Coef of Det (r^2) = 0.999341 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
Calibration Table Last Updated: Thu Jan 25 23:14:32 2024



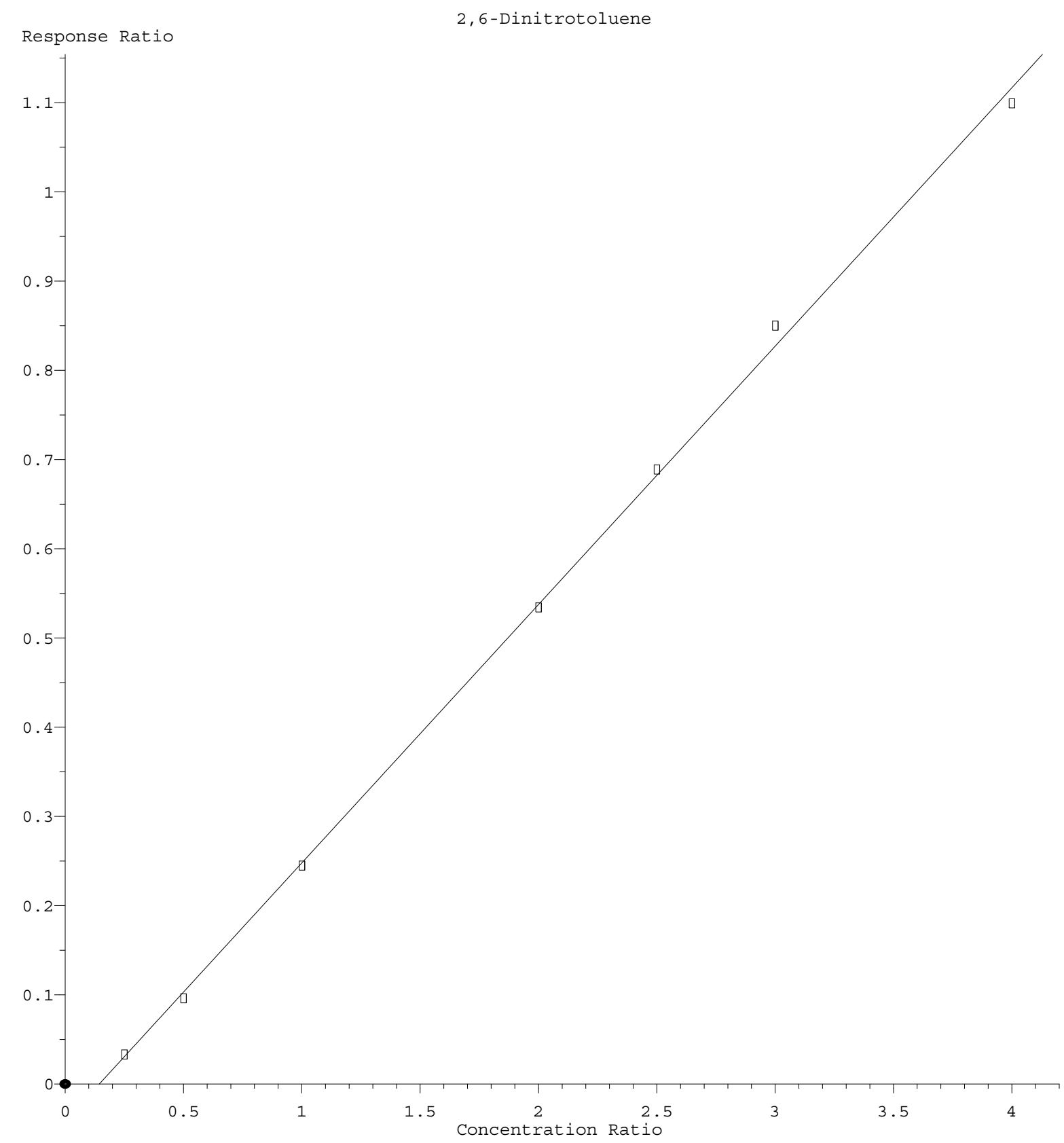
Response = 9.619e-002 * Amt - 3.948e-002
Coef of Det (r^2) = 0.993310 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
Calibration Table Last Updated: Thu Jan 25 23:14:32 2024



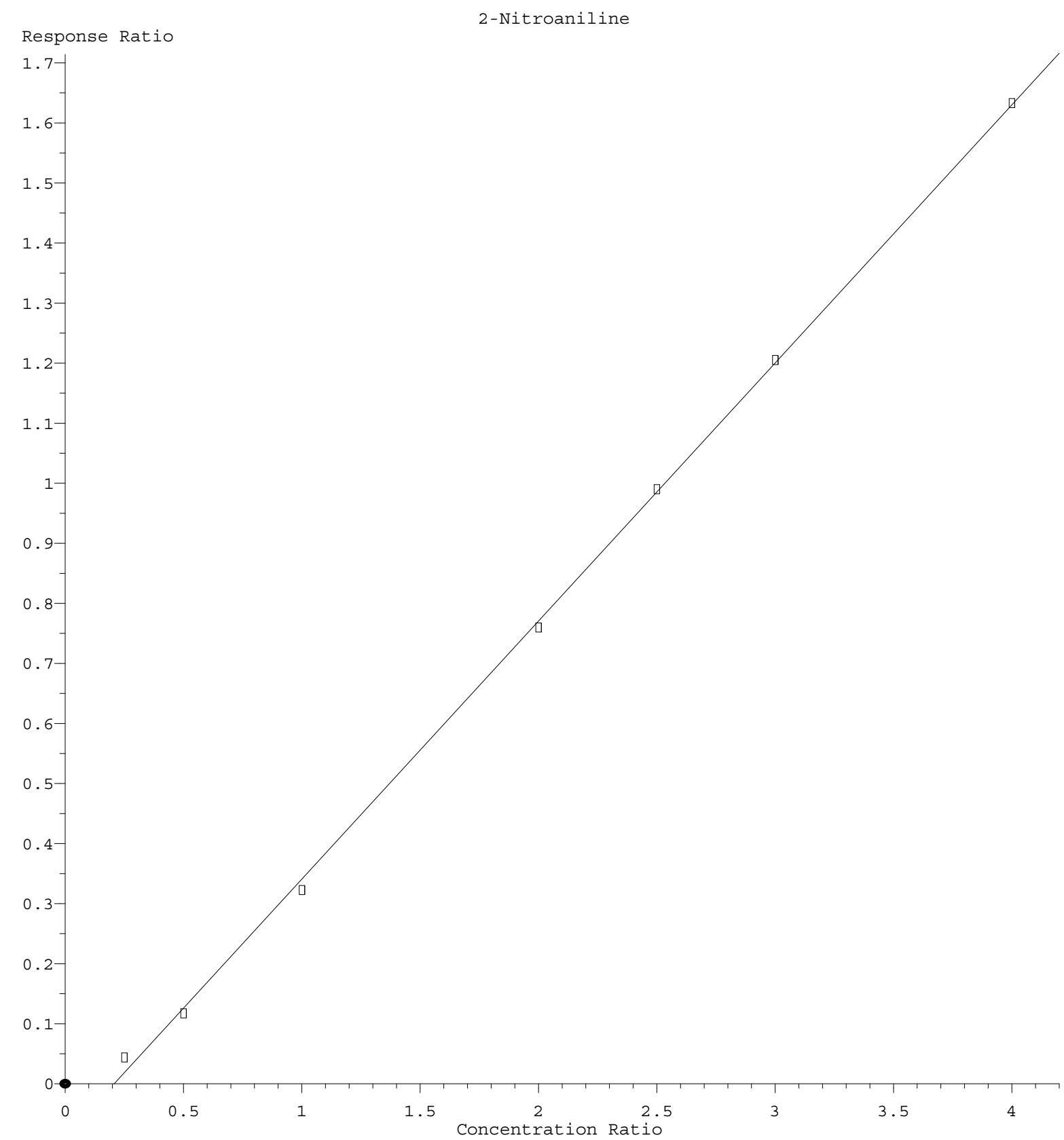
Response = 3.797e-001 * Amt - 8.178e-002
Coef of Det (r^2) = 0.998504 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
Calibration Table Last Updated: Thu Jan 25 23:14:32 2024



R = 1.450e-002 A*A + 7.064e-002 A - 2.179e-002
Coef of Det (r^2) = 0.998150 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
Calibration Table Last Updated: Thu Jan 25 23:14:32 2024



Response = 2.897e-001 * Amt - 4.170e-002
Coef of Det (r^2) = 0.999017 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
Calibration Table Last Updated: Thu Jan 25 23:14:32 2024



Response = 4.298e-001 * Amt - 8.901e-002
Coef of Det (r^2) = 0.999427 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
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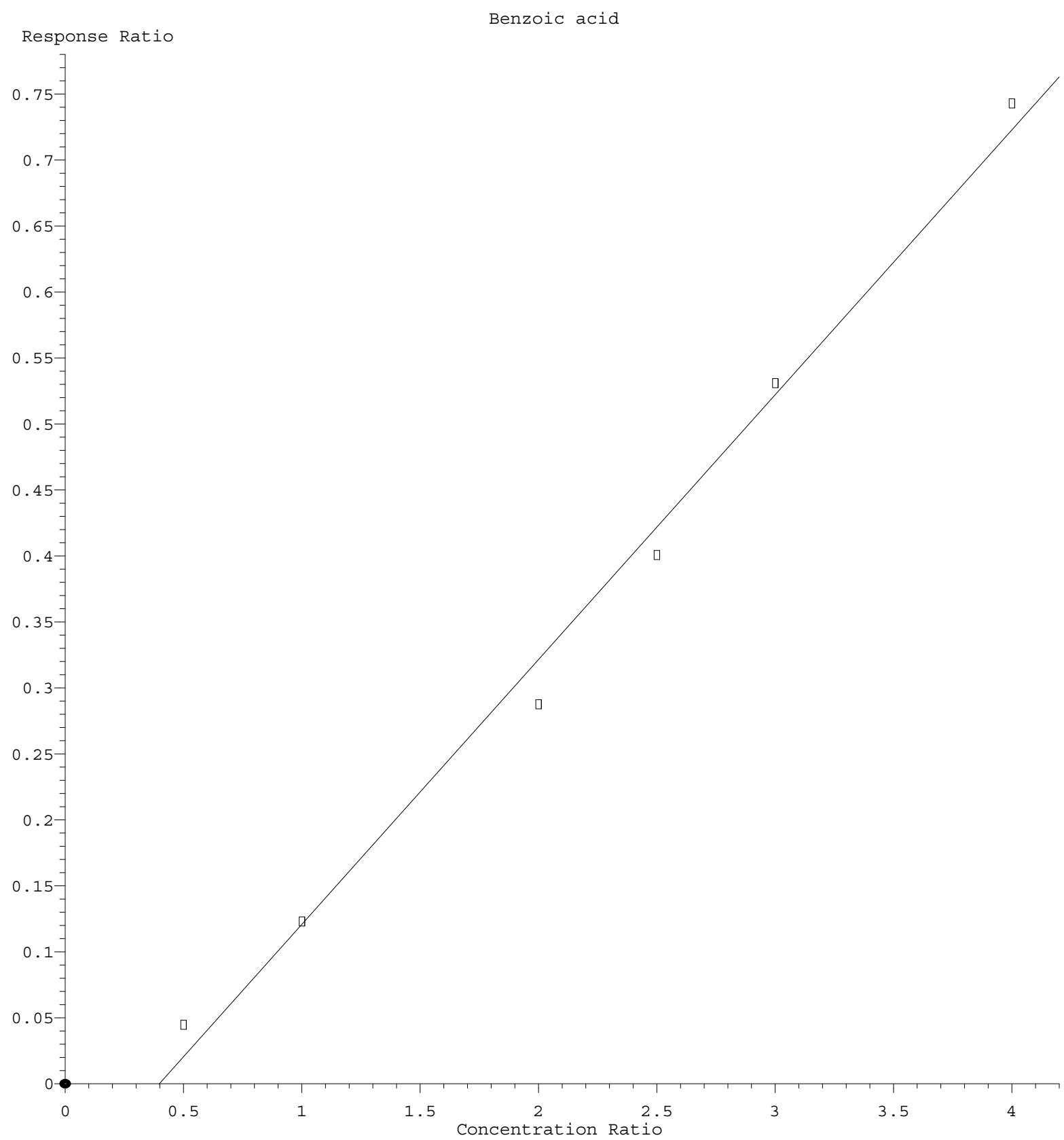

Response = 2.007e-001 * Amt - 7.980e-002
Coef of Det (r^2) = 0.992106 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
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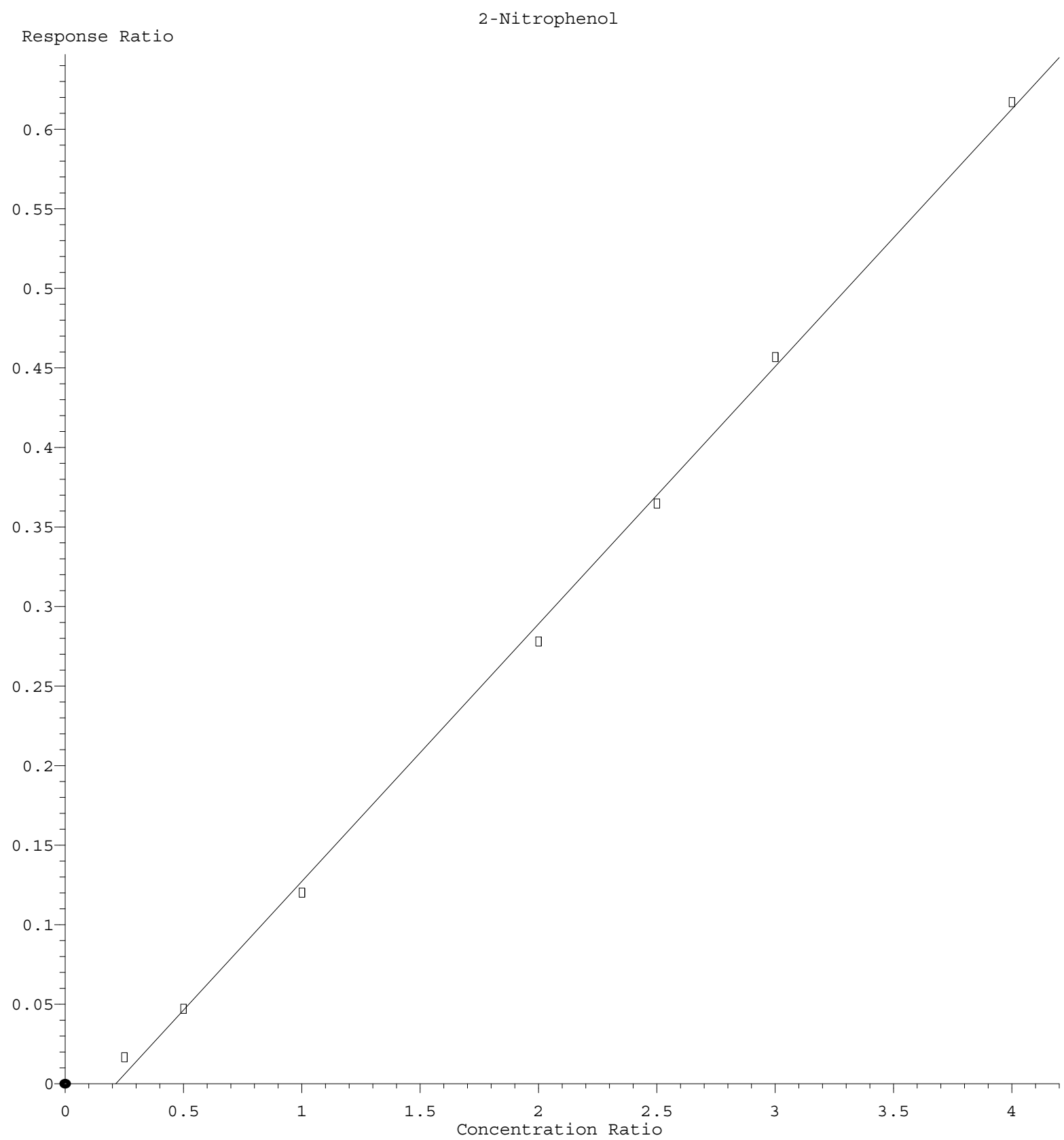

Response = 1.617e-001 * Amt - 3.463e-002
Coef of Det (r^2) = 0.998767 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012524.M
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