Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG042423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Apr 25 04:59:02 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG057152.D 5 =BG057153.D 10 =BG057154.D 20 =BG057155.D 40 =BG057156.D 50 =BG057157.D 60 =BG057158.D 80 =BG0571
59.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.484	0.433	0.462	0.503	0.524	0.535	0.520	0.495	7.49
3)		Pyridine		1.212	1.234	1.382	1.619	1.652	1.748	1.656	1.501	14.67
4)		n-Nitrosodimet...		0.517	0.460	0.489	0.597	0.643			0.541	14.18
5)	S	2-Fluorophenol		1.029	1.024	1.082	1.149	1.120	1.178	1.142	1.104	5.44
6)		Aniline		1.904	1.875	2.002	2.178	2.166	2.271	2.202	2.085	7.51
7)	S	Phenol-d6		1.364	1.442	1.560	1.679	1.679	1.744	1.709	1.597	9.11
8)		2-Chlorophenol		1.087	1.116	1.192	1.188	1.155	1.204	1.151	1.156	3.72
9)		Benzaldehyde		1.082	0.978	0.996	0.948	0.941	0.931	0.819	0.956	8.28
10)	C	Phenol		1.397	1.414	1.541	1.679	1.659	1.724	1.684	1.586	8.54
11)		bis(2-Chloroet...		1.135	1.091	1.210	1.299	1.314	1.361	1.299	1.244	8.11
12)		1,3-Dichlorobe...		1.479	1.418	1.437	1.369	1.292	1.310	1.282	1.370	5.65
13)	C	1,4-Dichlorobe...		1.487	1.440	1.442	1.393	1.289	1.325	1.286	1.380	5.84
14)		1,2-Dichlorobe...		1.427	1.359	1.413	1.353	1.267	1.273	1.238	1.333	5.59
15)		Benzyl Alcohol		0.934	1.013	1.122	1.231	1.255	1.355	1.326	1.177	13.51
16)		2,2'-oxybis(1-...		0.863	0.871	1.058	1.465	1.665	1.780	1.705	1.344	29.99
17)		2-Methylphenol		1.007	1.069	1.155	1.227	1.202	1.260	1.201	1.160	7.85
18)		Hexachloroethane		0.457	0.449	0.467	0.483	0.466	0.485	0.472	0.468	2.79
19)	P	n-Nitroso-di-n...	0.917	0.898	0.846	0.966	1.157	1.175			0.993	14.04
20)		3+4-Methylphenols		1.438	1.454	1.580	1.672	1.614	1.708	1.650	1.588	6.63
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.525	0.523	0.546	0.575	0.530	0.564	0.536	0.543	3.67
23)	S	Nitrobenzene-d5			0.311	0.369	0.431	0.419	0.453	0.444	0.405	13.43
24)		Nitrobenzene		0.332	0.321	0.384	0.452	0.434	0.464	0.456	0.406	14.89
25)		Isophorone		0.661	0.654	0.746	0.838	0.815	0.878	0.841	0.776	11.66
26)	C	2-Nitrophenol		0.137	0.137	0.153	0.160	0.150	0.161	0.164	0.152	7.32
27)		2,4-Dimethylph...		0.257	0.277	0.301	0.311	0.290	0.308	0.298	0.292	6.57
28)		bis(2-Chloroet...		0.352	0.356	0.387	0.448	0.420	0.452	0.432	0.407	10.31
29)	C	2,4-Dichloroph...		0.321	0.309	0.344	0.348	0.305	0.328	0.320	0.325	5.03
30)		1,2,4-Trichlor...		0.462	0.411	0.432	0.408	0.349	0.364	0.355	0.397	10.71
31)		Naphthalene		1.138	1.067	1.074	1.095	1.007	1.051	1.004	1.062	4.46
32)		Benzoic acid			0.060	0.119	0.134	0.127	0.142	0.147	0.122	26.28
33)		4-Chloroaniline		0.480	0.447	0.480	0.489	0.449	0.471	0.454	0.467	3.64
34)	C	Hexachlorobuta...		0.352	0.322	0.330	0.298	0.245	0.255	0.249	0.293	14.97
35)		Caprolactam		0.076	0.078	0.090	0.099	0.090	0.101	0.095	0.090	10.58
36)	C	4-Chloro-3-met...		0.321	0.321	0.360	0.371	0.346	0.371	0.356	0.350	6.12
37)		2-Methylnaphth...		0.906	0.847	0.870	0.867	0.768	0.816	0.777	0.836	6.11
38)		1-Methylnaphth...		0.827	0.773	0.790	0.803	0.726	0.762	0.721	0.772	5.03

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.825	0.767	0.783	0.735	0.656	0.681	0.675	0.732	8.68
41)	P	Hexachlorocycl...		0.202	0.266	0.301	0.276	0.300	0.323	0.278	15.27
42)	S	2,4,6-Tribromo...	0.287	0.294	0.292	0.257	0.232	0.242	0.242	0.264	10.14
43)	C	2,4,6-Trichlor...	0.346	0.395	0.411	0.420	0.386	0.408	0.409	0.396	6.27
44)		2,4,5-Trichlor...	0.453	0.465	0.506	0.503	0.462	0.482	0.477	0.478	4.26
45)	S	2-Fluorobiphenyl	1.631	1.544	1.558	1.495	1.391	1.418	1.380	1.488	6.40
46)		1,1'-Biphenyl	1.547	1.481	1.524	1.524	1.438	1.475	1.448	1.491	2.79
47)		2-Chloronaphth...	1.202	1.118	1.151	1.143	1.072	1.112	1.079	1.125	3.98
48)		2-Nitroaniline	0.145	0.157	0.201	0.273	0.289			0.213	30.76
49)		Acenaphthylene	1.777	1.734	1.834	1.830	1.774	1.801	1.753	1.786	2.12
50)		Dimethylphthalate	1.338	1.348	1.432	1.458	1.387	1.435	1.428	1.404	3.32
51)		2,6-Dinitrotol...	0.207	0.266	0.307	0.322	0.312	0.322	0.315	0.293	14.55
52)	C	Acenaphthene	1.118	1.141	1.190	1.214	1.138	1.187	1.179	1.167	2.97
53)		3-Nitroaniline	0.236	0.254	0.290	0.312	0.311	0.317	0.316	0.291	11.32
54)	P	2,4-Dinitrophenol		0.073	0.129	0.150	0.148	0.162	0.169	0.139	25.18
55)		Dibenzofuran	2.043	1.946	1.966	1.912	1.789	1.819	1.761	1.891	5.48
56)	P	4-Nitrophenol		0.152	0.190	0.218	0.214	0.228	0.227	0.205	14.24
57)		2,4-Dinitrotol...	0.317	0.353	0.405	0.428	0.417	0.439	0.434	0.399	11.59
58)		Fluorene	1.630	1.538	1.630	1.537	1.435	1.459	1.428	1.522	5.64
59)		2,3,4,6-Tetrac...	0.392	0.432	0.439	0.410	0.388	0.409	0.398	0.410	4.75
60)		Diethylphthalate	1.291	1.273	1.372	1.391	1.344	1.405	1.396	1.353	3.90
61)		4-Chlorophenyl...	1.021	0.954	0.992	0.914	0.828	0.848	0.840	0.914	8.52
62)		4-Nitroaniline	0.226	0.267	0.305	0.310	0.309	0.318	0.316	0.293	11.75
63)		Azobenzene	1.201	1.200	1.400	1.556	1.571	1.605	1.542	1.439	12.18
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.066	0.088	0.102	0.098	0.108	0.109	0.095	17.00
66)	c	n-Nitrosodiphe...	0.528	0.487	0.522	0.544	0.509	0.542	0.521	0.522	3.76
67)		4-Bromophenyl-...	0.262	0.249	0.252	0.246	0.220	0.231	0.223	0.241	6.61
68)		Hexachlorobenzene	0.276	0.280	0.266	0.243	0.215	0.225	0.220	0.247	11.12
69)		Atrazine	0.146	0.160	0.174	0.178	0.165	0.175	0.169	0.167	6.68
70)	C	Pentachlorophenol		0.083	0.114	0.125	0.116	0.127	0.131	0.116	14.88
71)		Phenanthrene	1.096	1.015	1.042	1.049	0.969	1.011	0.966	1.021	4.49
72)		Anthracene	1.071	1.018	1.070	1.066	0.986	1.025	0.990	1.032	3.60
73)		Carbazole	0.885	0.828	0.895	0.912	0.854	0.886	0.841	0.871	3.54
74)		Di-n-butylphth...	0.715	0.713	0.801	0.867	0.835	0.884	0.858	0.811	8.75
75)	C	Fluoranthene	1.368	1.287	1.333	1.289	1.196	1.229	1.177	1.268	5.58
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.297	0.283	0.322	0.328	0.291	0.299	0.290	0.301	5.65
78)		Pyrene	1.289	1.268	1.391	1.429	1.343	1.415	1.371	1.358	4.54
79)	S	Terphenyl-d14	1.182	1.154	1.202	1.171	1.068	1.127	1.099	1.143	4.19
80)		Butylbenzylpht...	0.232	0.234	0.295	0.352	0.356			0.294	20.56
81)		Benzo(a)anthra...	1.388	1.314	1.420	1.435	1.318	1.384	1.366	1.375	3.37
82)		3,3'-Dichlorob...	0.312	0.311	0.371	0.383	0.368	0.385	0.388	0.360	9.36
83)		Chrysene	1.383	1.272	1.385	1.367	1.268	1.311	1.298	1.326	3.87
84)		Bis(2-ethylhex...	0.360	0.386	0.460	0.549	0.545	0.577	0.583	0.494	18.67
85)	c	Di-n-octyl pht...		0.679	0.832	0.953	0.927	0.996	0.993	0.897	13.64

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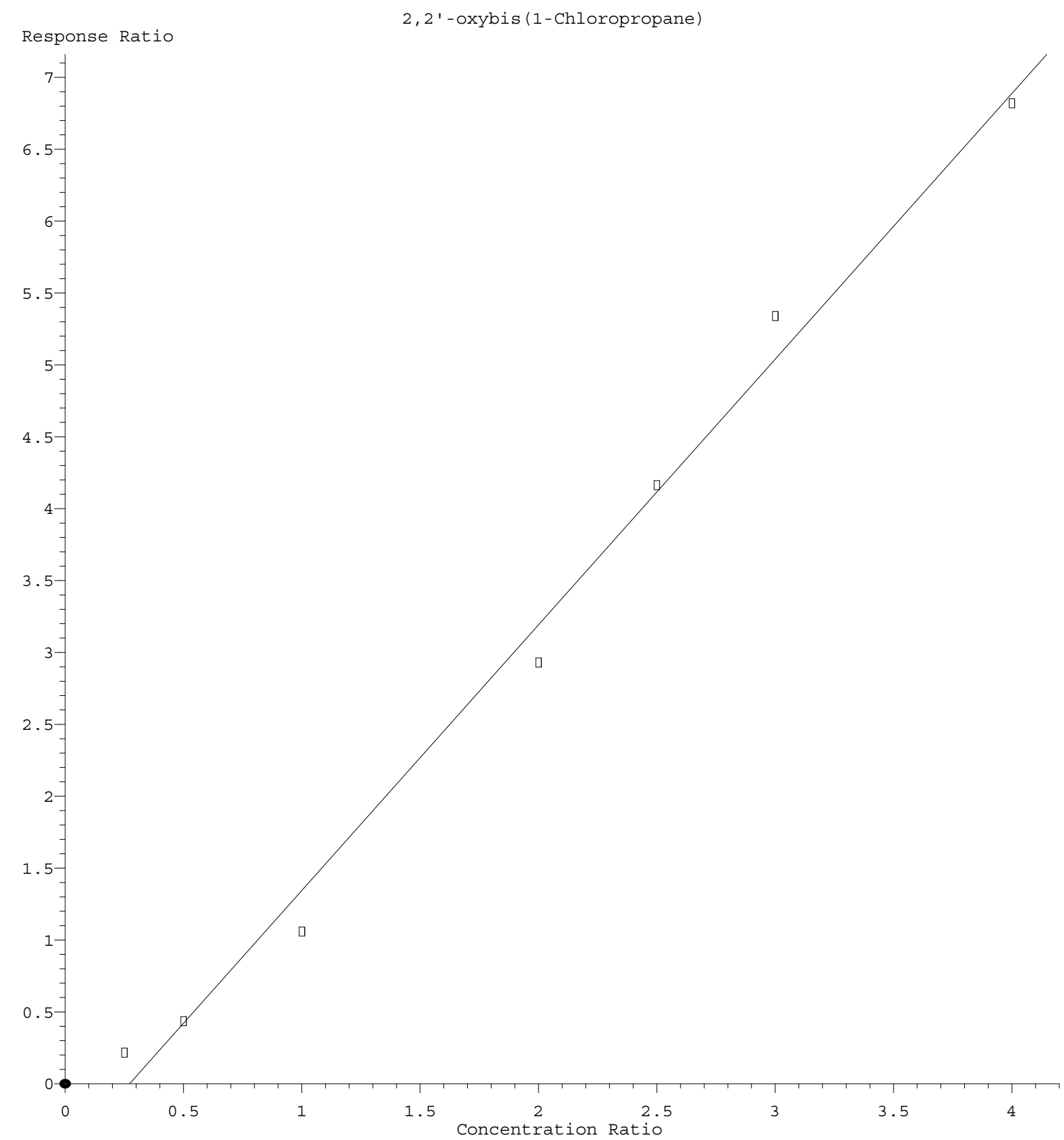
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.458	1.389	1.479	1.464	1.373	1.461	1.404	1.433	2.98
88)		Benzo(b)fluora...	1.238	1.206	1.256	1.300	1.231	1.285	1.260	1.254	2.56
89)		Benzo(k)fluora...	1.260	1.286	1.327	1.333	1.265	1.345	1.262	1.297	2.85
90)	C	Benzo(a)pyrene	1.219	1.196	1.265	1.277	1.207	1.273	1.206	1.235	2.85
91)		Dibenzo(a,h)an...	1.195	1.180	1.219	1.221	1.138	1.204	1.169	1.190	2.49
92)		Benzo(g,h,i)pe...	1.186	1.172	1.227	1.203	1.126	1.184	1.142	1.177	2.93

(#) = Out of Range



Response = 1.848e+000 * Amt - 5.030e-001
Coef of Det (r^2) = 0.992056 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG042423.M
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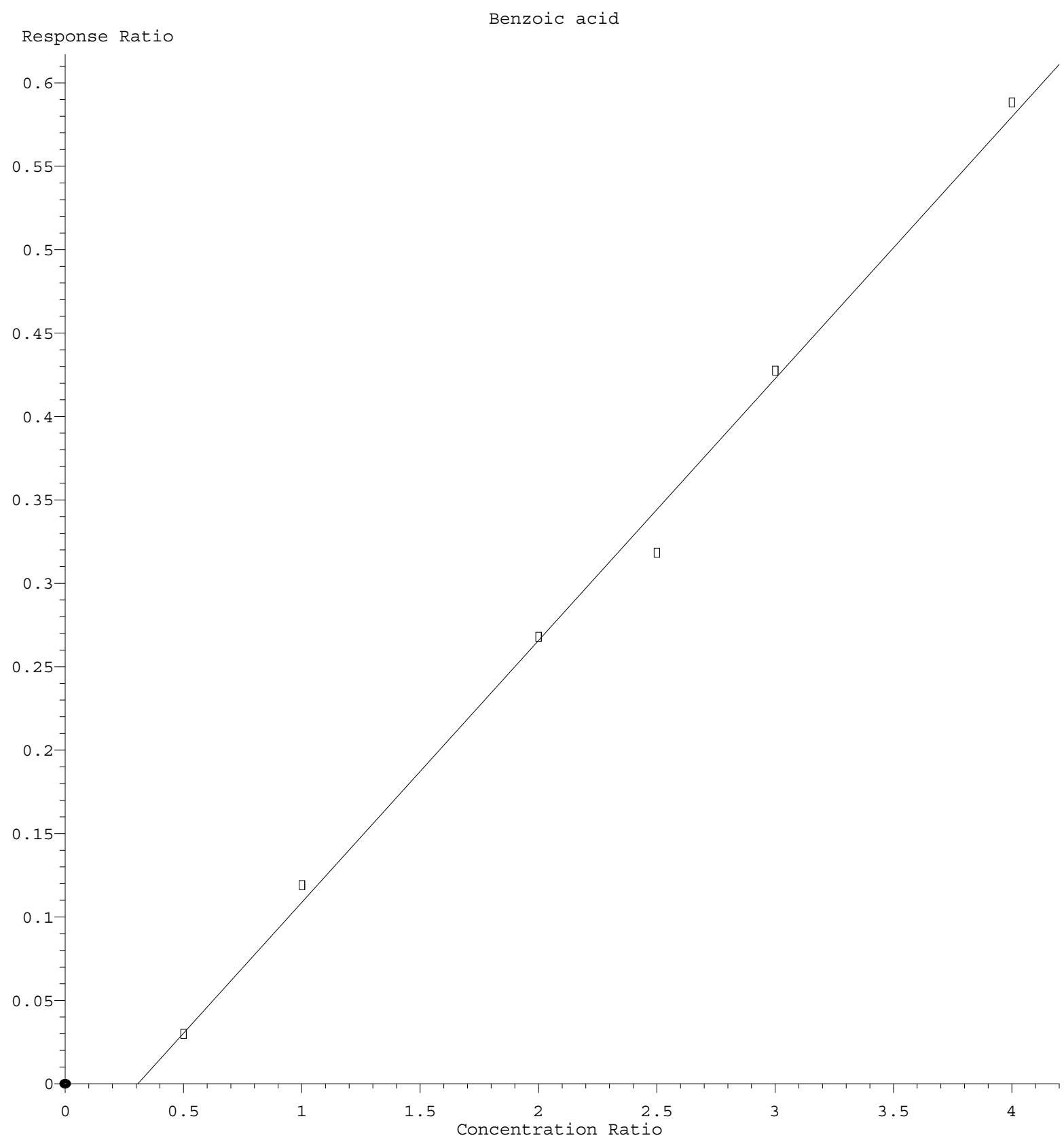

Response = 1.569e-001 * Amt - 4.813e-002
Coef of Det (r^2) = 0.995739 Curve Fit: Linear
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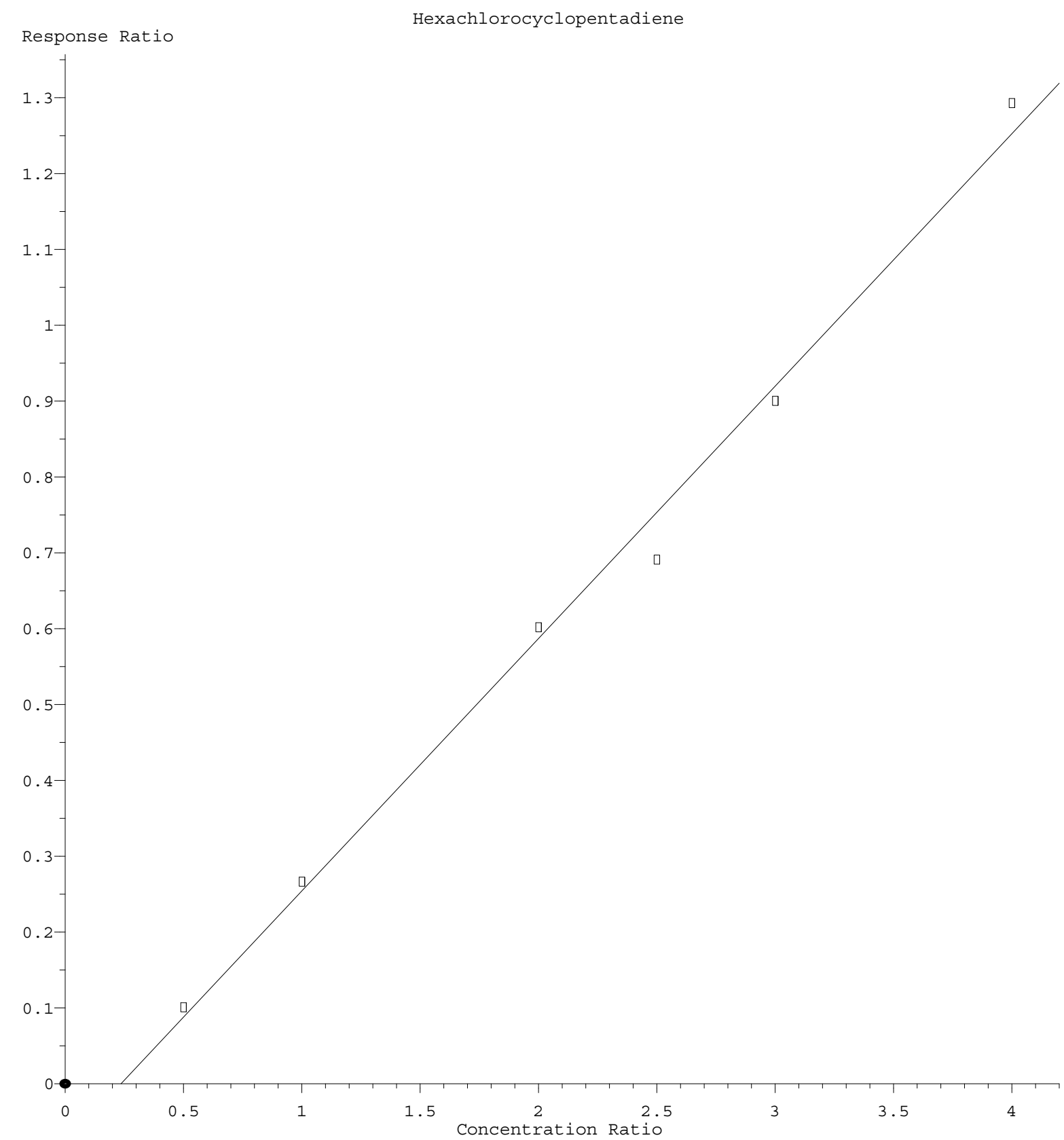

Response = 3.326e-001 * Amt - 7.845e-002
Coef of Det (r^2) = 0.993077 Curve Fit: Linear
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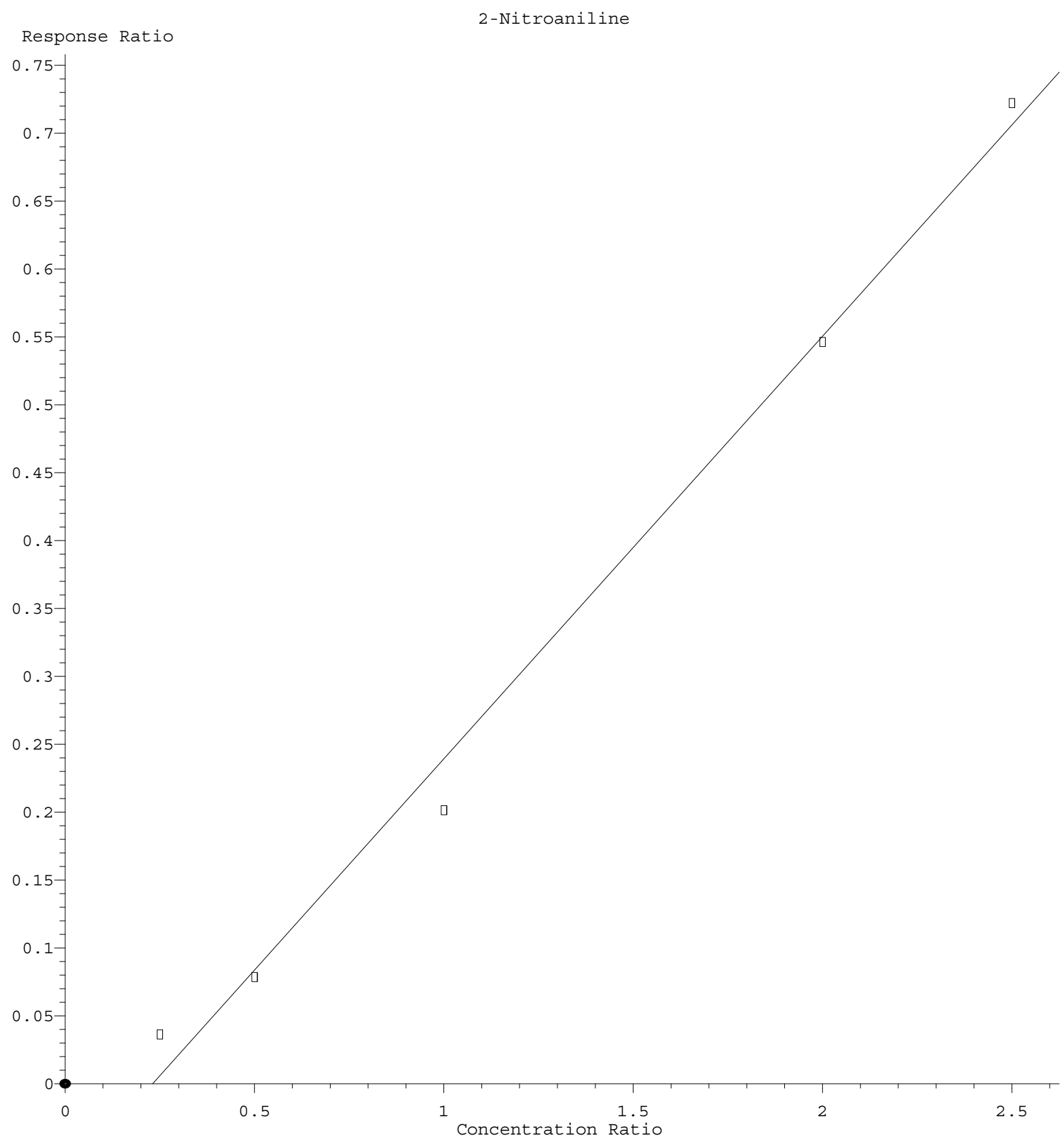
Calibration Table Last Updated: Tue Apr 25 04:59:02 2023



Response = 3.111e-001 * Amt - 7.198e-002
Coef of Det (r^2) = 0.992715 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG042423.M
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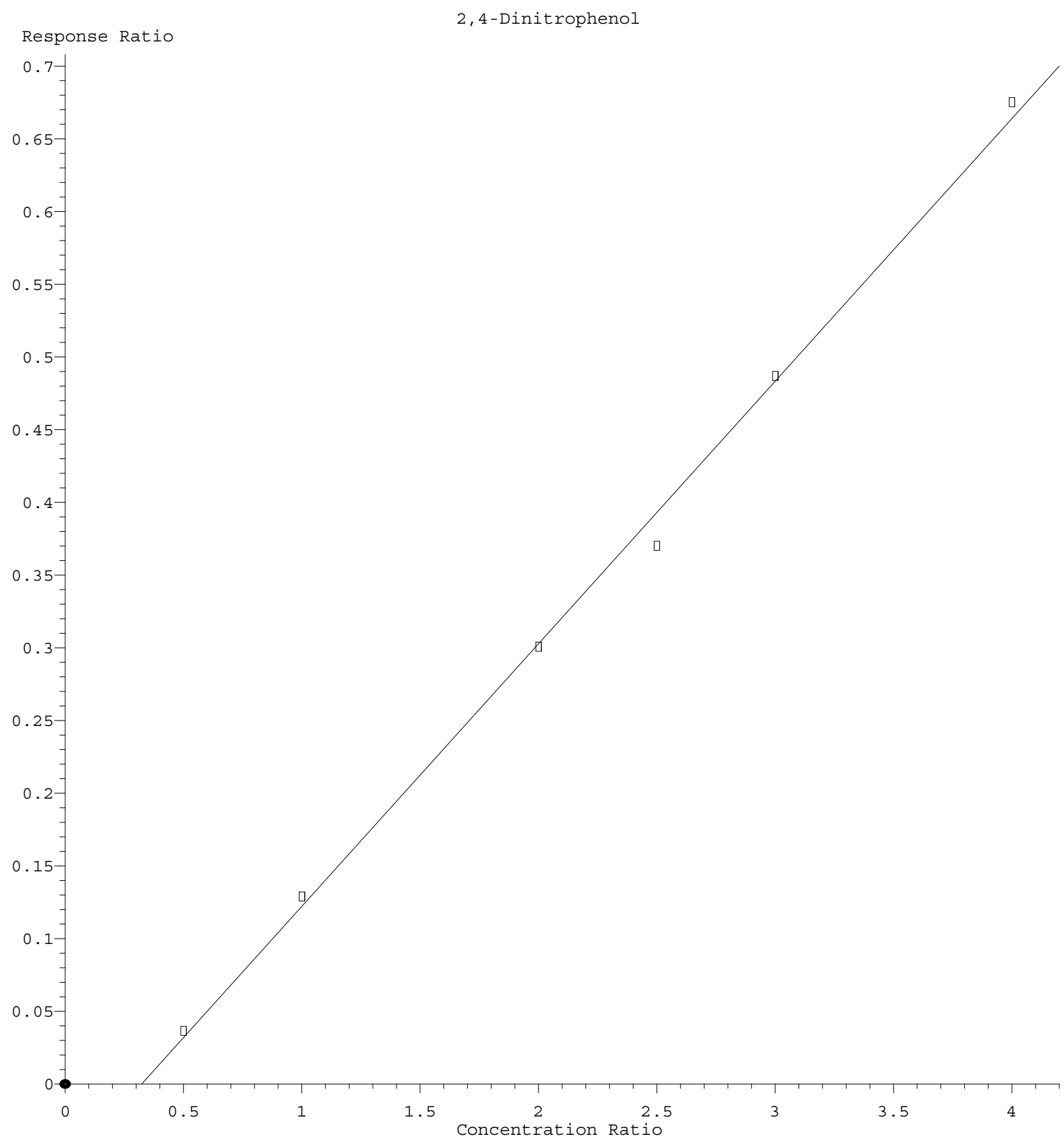

Response = 1.807e-001 * Amt - 5.837e-002
Coef of Det (r^2) = 0.997292 Curve Fit: Linear
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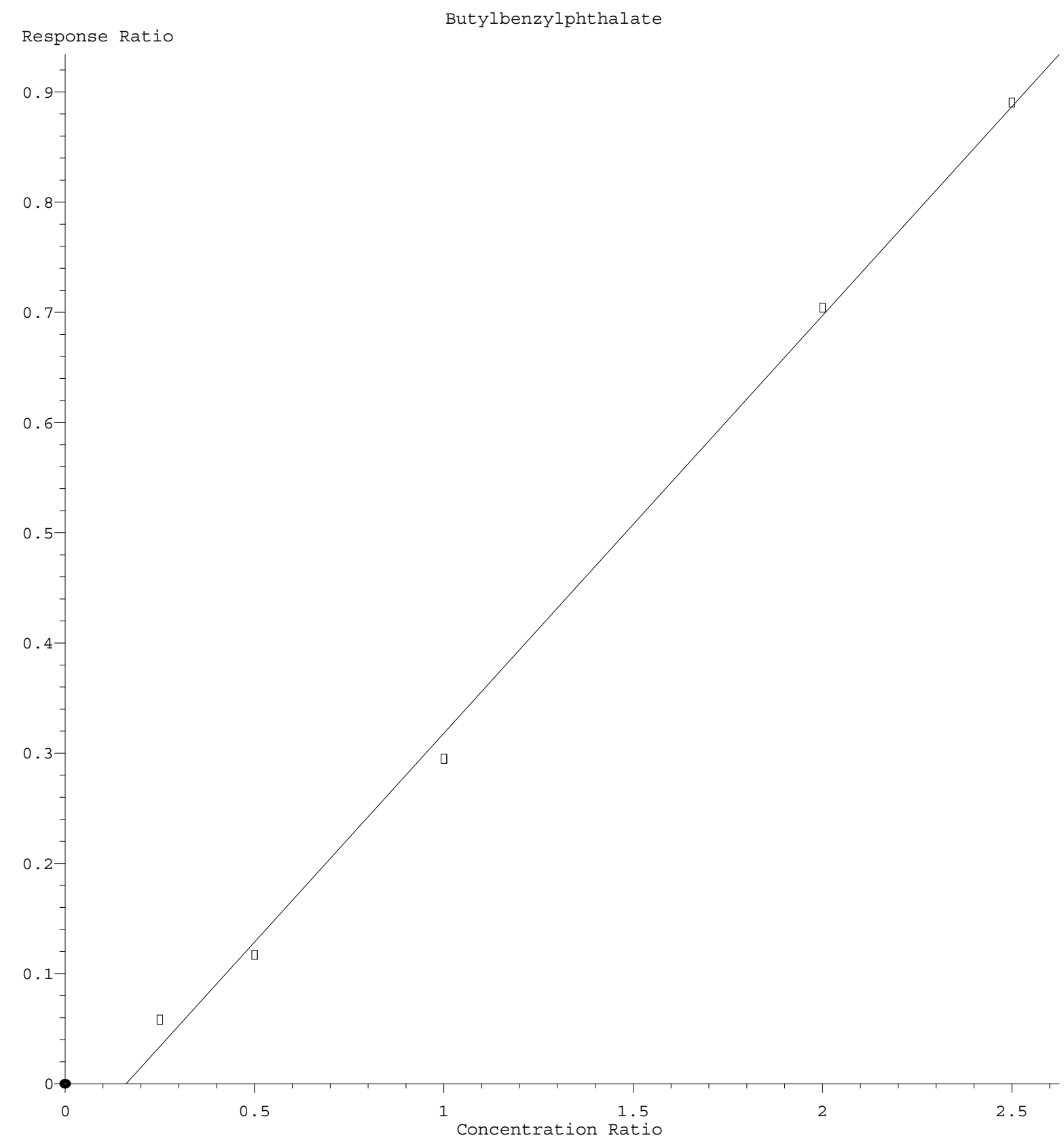
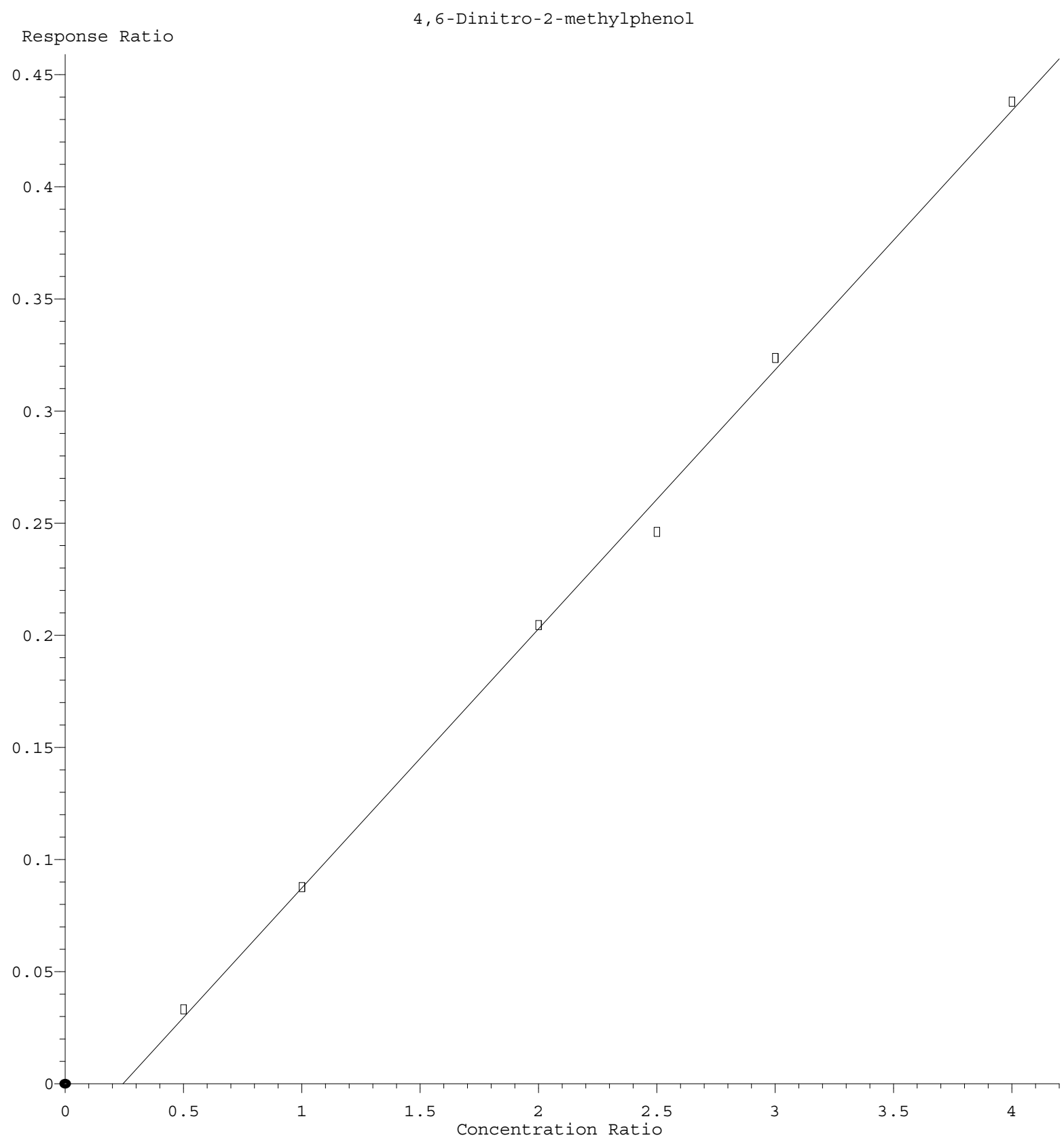


Response = 3.791e-001 * Amt - 6.091e-002
Coef of Det (r^2) = 0.997540 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG042423.M
Calibration Table Last Updated: Tue Apr 25 04:59:02 2023



Response = 1.155e-001 * Amt - 2.818e-002
Coef of Det (r^2) = 0.997570 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG042423.M
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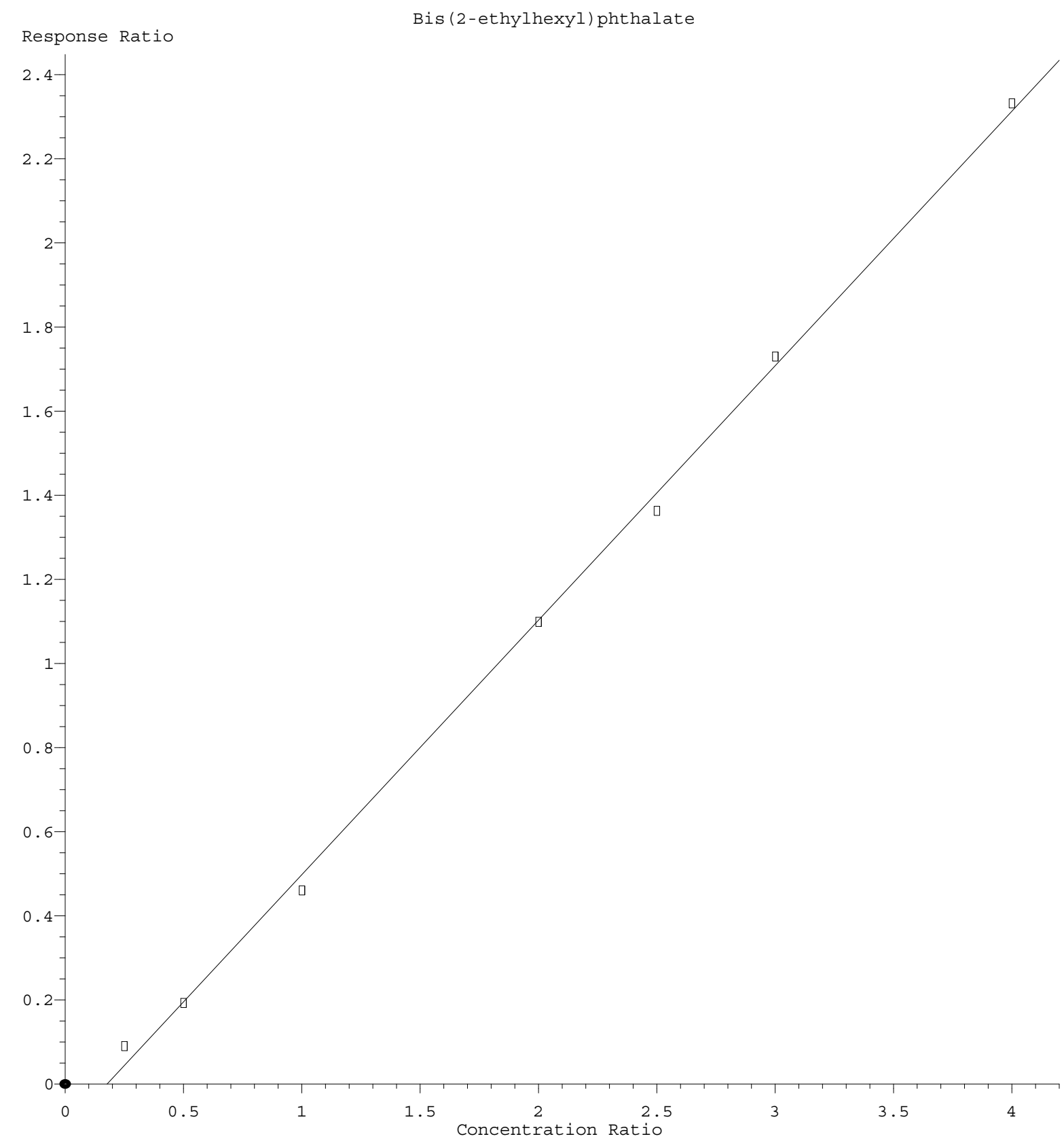

Response = 6.049e-001 * Amt - 1.069e-001
Coef of Det (r^2) = 0.998533 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG042423.M
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