Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF050525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon May 05 18:41:44 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142295.D 5 =BF142296.D 10 =BF142297.D 20 =BF142298.D 40 =BF142299.D 50 =BF142300.D 60 =BF142301.D 80 =BF1423
02.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.553	0.527	0.535	0.503	0.543	0.521	0.511	0.528	3.36
3)		Pyridine		1.159	1.233	1.210	1.176	1.311	1.312	1.270	1.239	4.99
4)		n-Nitrosodimet...		0.718	0.707	0.729	0.696	0.759	0.726	0.705	0.720	2.88
5)	S	2-Fluorophenol		1.212	1.177	1.211	1.126	1.224	1.165	1.086	1.172	4.35
6)		Aniline		0.955	1.370	1.568	1.467	1.543	1.519	1.472	1.413	15.03
7)	S	Phenol-d6		1.510	1.458	1.489	1.375	1.500	1.419	1.336	1.441	4.64
8)		2-Chlorophenol		1.202	1.223	1.263	1.221	1.346	1.283	1.225	1.252	4.00
9)		Benzaldehyde		1.049	0.959	0.903	0.734	0.752	0.663		0.843	17.74
10)	C	Phenol		1.599	1.528	1.584	1.472	1.580	1.524	1.405	1.527	4.55
11)		bis(2-Chloroet...		1.789	1.543	1.510	1.353	1.516	1.441	1.392	1.506	9.49
12)		1,3-Dichlorobe...		1.555	1.505	1.466	1.347	1.477	1.379	1.298	1.432	6.48
13)	C	1,4-Dichlorobe...		1.562	1.499	1.486	1.364	1.476	1.386	1.294	1.438	6.46
14)		1,2-Dichlorobe...		1.480	1.432	1.415	1.317	1.424	1.340	1.254	1.380	5.71
15)		Benzyl Alcohol		0.816	0.843	0.933	0.928	1.030	1.008	0.972	0.933	8.56
16)		2,2'-oxybis(1-...		2.379	2.310	2.325	2.135	2.341	2.211	2.044	2.249	5.48
17)		2-Methylphenol		1.033	1.008	1.022	0.972	1.070	1.013	0.978	1.014	3.30
18)		Hexachloroethane		0.473	0.464	0.488	0.463	0.511	0.487	0.463	0.478	3.78
19)	P	n-Nitroso-di-n...	0.840	0.943	0.915	0.918	0.860	0.933	0.885	0.837	0.891	4.69
20)		3+4-Methylphenols		1.354	1.281	1.322	1.218	1.333	1.226	1.121	1.265	6.48
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.505	0.474	0.464	0.416	0.446	0.419	0.389	0.445	8.95
23)	S	Nitrobenzene-d5		0.289	0.304	0.336	0.327	0.360	0.348	0.332	0.328	7.48
24)		Nitrobenzene		0.281	0.293	0.316	0.306	0.337	0.325	0.305	0.309	6.05
25)		Isophorone		0.639	0.623	0.630	0.586	0.648	0.622	0.598	0.621	3.53
26)	C	2-Nitrophenol		0.089	0.097	0.121	0.132	0.154	0.155	0.155	0.129	21.55
27)		2,4-Dimethylph...		0.311	0.314	0.321	0.298	0.329	0.314	0.299	0.312	3.55
28)		bis(2-Chloroet...		0.430	0.414	0.418	0.374	0.408	0.386	0.366	0.399	6.09
29)	C	2,4-Dichloroph...		0.245	0.251	0.278	0.263	0.288	0.274	0.260	0.265	5.71
30)		1,2,4-Trichlor...		0.329	0.309	0.309	0.281	0.304	0.289	0.271	0.299	6.60
31)		Naphthalene		1.102	1.031	1.028	0.906	0.978	0.906	0.835	0.969	9.52
32)		Benzoic acid			0.084	0.117	0.140	0.178	0.186	0.194	0.150	29.22
33)		4-Chloroaniline		0.373	0.373	0.398	0.383	0.435	0.415	0.392	0.396	5.80
34)	C	Hexachlorobuta...		0.188	0.182	0.181	0.168	0.185	0.173	0.162	0.177	5.32
35)		Caprolactam		0.063	0.068	0.078	0.079	0.088	0.083	0.082	0.077	11.39
36)	C	4-Chloro-3-met...		0.281	0.270	0.283	0.265	0.290	0.279	0.262	0.276	3.68
37)		2-Methylnaphth...		0.672	0.636	0.635	0.569	0.615	0.568	0.521	0.602	8.60
38)		1-Methylnaphth...		0.710	0.675	0.665	0.594	0.630	0.587	0.535	0.628	9.59

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Method File : 8270-BF050525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.600	0.586	0.586	0.515	0.574	0.538	0.512	0.559	6.51
41)	P	Hexachlorocycl...	0.286	0.303	0.349	0.343	0.388	0.379	0.369	0.345	11.16
42)	S	2,4,6-Tribromo...	0.161	0.176	0.198	0.191	0.218	0.210	0.197	0.193	10.16
43)	C	2,4,6-Trichlor...	0.306	0.320	0.360	0.351	0.393	0.371	0.365	0.352	8.53
44)		2,4,5-Trichlor...	0.339	0.353	0.390	0.363	0.413	0.397	0.369	0.375	7.00
45)	S	2-Fluorobiphenyl	1.737	1.605	1.532	1.272	1.337	1.246	1.090	1.403	16.29
46)		1,1'-Biphenyl	1.727	1.641	1.637	1.411	1.567	1.442	1.310	1.533	9.75
47)		2-Chloronaphth...	1.256	1.198	1.193	1.058	1.155	1.106	1.018	1.140	7.40
48)		2-Nitroaniline	0.205	0.240	0.292	0.298	0.344	0.337	0.330	0.292	17.90
49)		Acenaphthylene	2.083	2.025	2.009	1.783	1.958	1.830	1.665	1.908	7.94
50)		Dimethylphthalate	1.338	1.295	1.344	1.210	1.342	1.275	1.186	1.284	5.04
51)		2,6-Dinitrotol...	0.172	0.206	0.242	0.245	0.280	0.273	0.263	0.240	16.19
52)	C	Acenaphthene	1.260	1.191	1.200	1.066	1.180	1.111	1.021	1.147	7.32
53)		3-Nitroaniline	0.206	0.238	0.288	0.286	0.329	0.319	0.307	0.282	15.80
54)	P	2,4-Dinitrophenol		0.062	0.083	0.097	0.120	0.124	0.127	0.102	25.44
55)		Dibenzofuran	1.932	1.790	1.801	1.555	1.711	1.609	1.453	1.693	9.72
56)	P	4-Nitrophenol	0.159	0.178	0.210	0.214	0.253	0.240	0.231	0.212	15.82
57)		2,4-Dinitrotol...	0.222	0.250	0.303	0.318	0.368	0.355	0.341	0.308	17.63
58)		Fluorene	1.521	1.407	1.374	1.195	1.283	1.183	1.080	1.292	11.77
59)		2,3,4,6-Tetrac...	0.266	0.288	0.320	0.305	0.344	0.329	0.314	0.309	8.38
60)		Diethylphthalate	1.344	1.325	1.355	1.207	1.344	1.252	1.151	1.283	6.27
61)		4-Chlorophenyl...	0.699	0.666	0.658	0.577	0.638	0.590	0.535	0.623	9.26
62)		4-Nitroaniline	0.207	0.230	0.248	0.225	0.240	0.219	0.195	0.223	8.23
63)		Azobenzene	1.338	1.271	1.285	1.132	1.270	1.185	1.098	1.226	7.23
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.052	0.068	0.081	0.094	0.098	0.101	0.082	23.49
66)	c	n-Nitrosodiphe...	0.704	0.683	0.693	0.629	0.686	0.654	0.610	0.666	5.28
67)		4-Bromophenyl-...	0.230	0.227	0.232	0.216	0.238	0.227	0.217	0.227	3.44
68)		Hexachlorobenzene	0.264	0.246	0.253	0.237	0.258	0.248	0.240	0.249	3.84
69)		Atrazine	0.157	0.165	0.176	0.174	0.196	0.185	0.175	0.175	7.17
70)	C	Pentachlorophenol	0.094	0.109	0.130	0.139	0.153	0.150	0.144	0.131	16.65
71)		Phenanthrene	1.193	1.102	1.105	0.988	1.058	0.987	0.906	1.048	9.14
72)		Anthracene	1.210	1.136	1.134	1.018	1.093	1.023	0.927	1.077	8.77
73)		Carbazole	1.065	1.016	1.024	0.926	0.986	0.911	0.837	0.966	8.17
74)		Di-n-butylphth...	0.957	1.022	1.082	1.013	1.093	1.019	0.928	1.016	5.91
75)	C	Fluoranthene	1.198	1.154	1.128	0.985	1.051	0.956	0.863	1.048	11.46
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.272	0.384	0.358	0.426	0.403	0.337	0.363	15.09
78)		Pyrene	1.822	1.748	1.902	1.705	1.912	1.817	1.555	1.780	6.99
79)	S	Terphenyl-d14	1.493	1.424	1.460	1.255	1.390	1.314	1.123	1.351	9.61
80)		Butylbenzylpht...	0.282	0.330	0.439	0.469	0.545	0.549	0.527	0.449	23.70
81)		Benzo(a)anthra...	1.370	1.299	1.317	1.238	1.354	1.296	1.192	1.295	4.84
82)		3,3'-Dichlorob...	0.250	0.279	0.316	0.296	0.327	0.323	0.317	0.301	9.40
83)		Chrysene	1.294	1.227	1.247	1.104	1.238	1.203	1.128	1.206	5.59
84)		Bis(2-ethylhex...	0.328	0.417	0.557	0.601	0.699	0.716	0.697	0.573	26.35
85)	c	Di-n-octyl pht...		0.586	0.856	1.029	1.242	1.315	1.317	1.057	27.77

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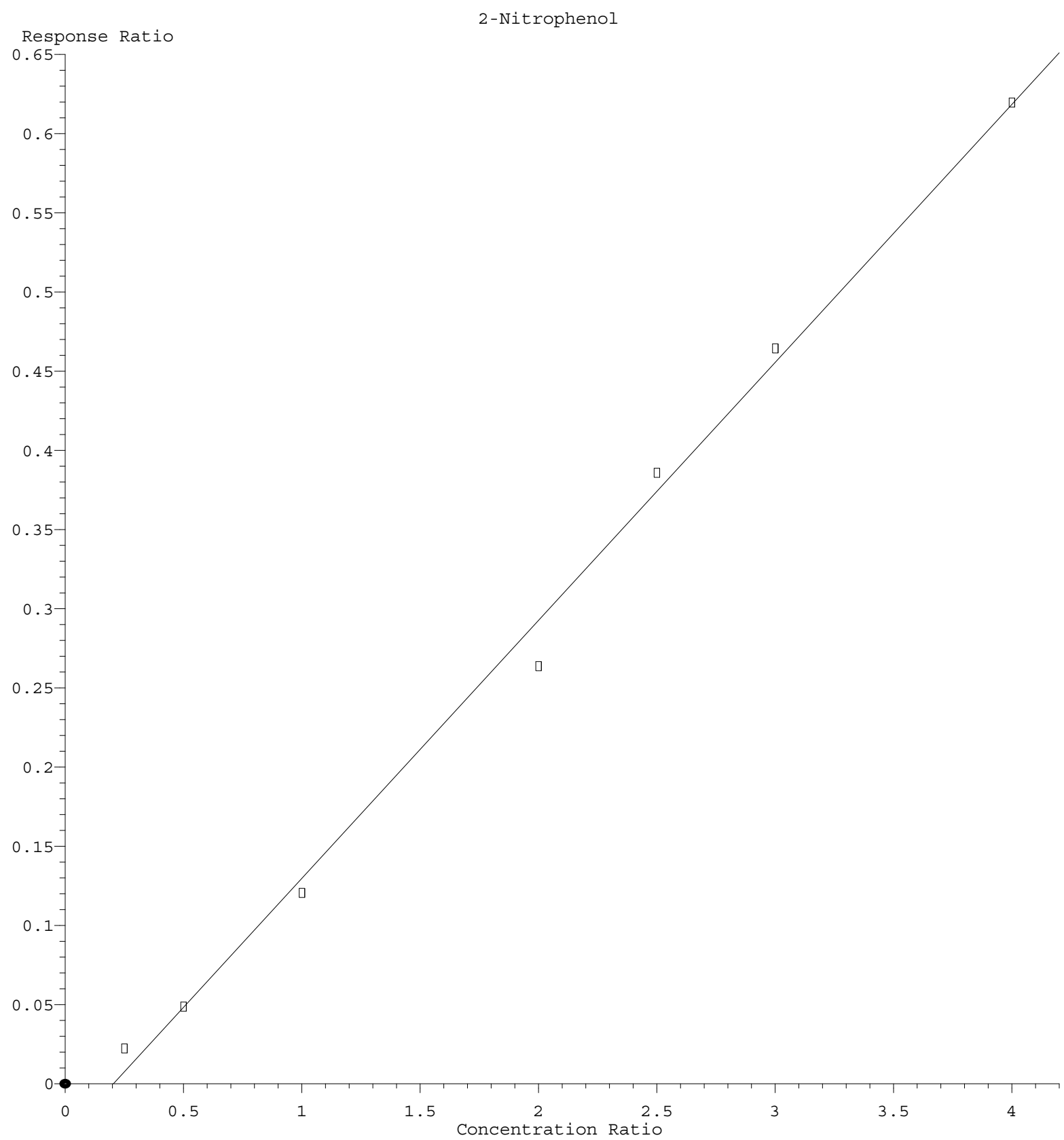
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.152	1.281	1.421	1.384	1.596	1.504	1.402	1.391	10.38
88)		Benzo(b)fluora...	1.312	1.216	1.227	1.163	1.263	1.142	1.156	1.211	5.14
89)		Benzo(k)fluora...	1.158	1.142	1.164	1.040	1.172	1.114	0.969	1.109	6.88
90)	C	Benzo(a)pyrene	1.034	1.042	1.102	1.066	1.183	1.119	1.054	1.085	4.88
91)		Dibenzo(a,h)an...	0.987	1.066	1.194	1.137	1.308	1.224	1.129	1.149	9.17
92)		Benzo(g,h,i)pe...	0.971	1.056	1.175	1.120	1.295	1.225	1.143	1.141	9.37

(#) = Out of Range



Response = 1.629e-001 * Amt - 3.329e-002
Coef of Det (r^2) = 0.995567 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
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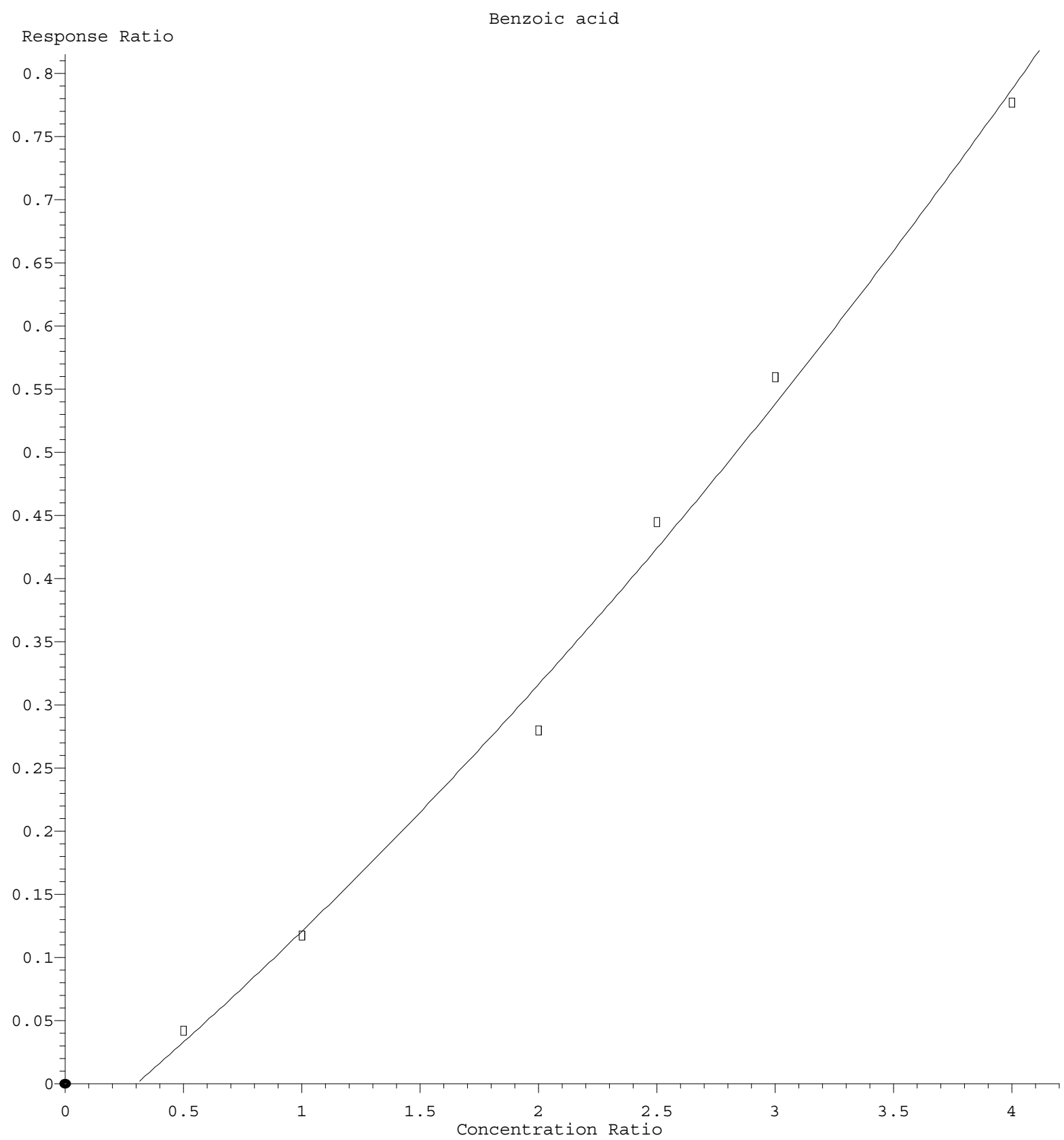
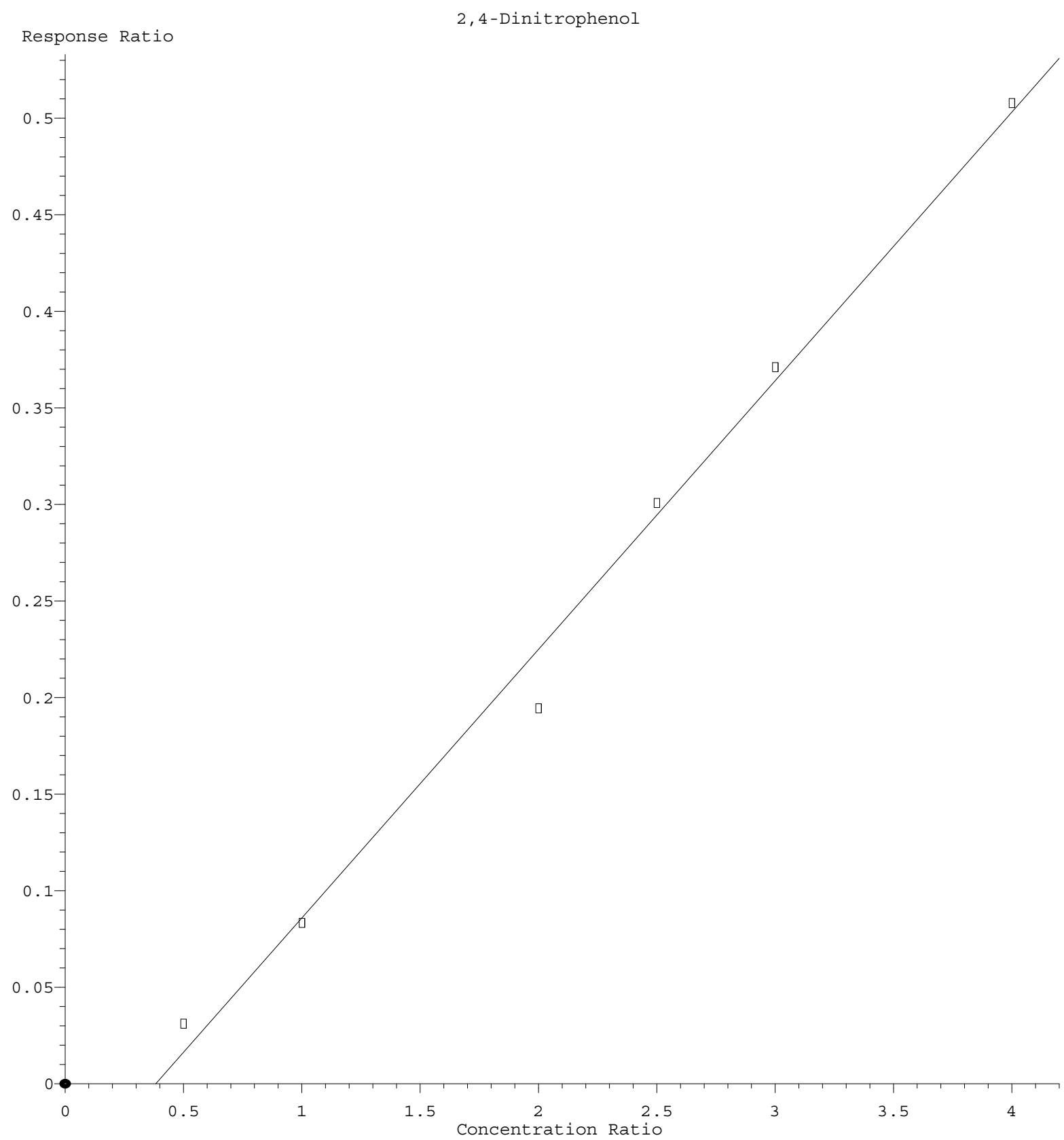


R = 1.340e-002 A*A + 1.552e-001 A - 4.790e-002
Coef of Det (r^2) = 0.993773 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
Calibration Table Last Updated: Mon May 05 18:41:44 2025



Response = 1.391e-001 * Amt - 5.328e-002
Coef of Det (r^2) = 0.992198 Curve Fit: Linear
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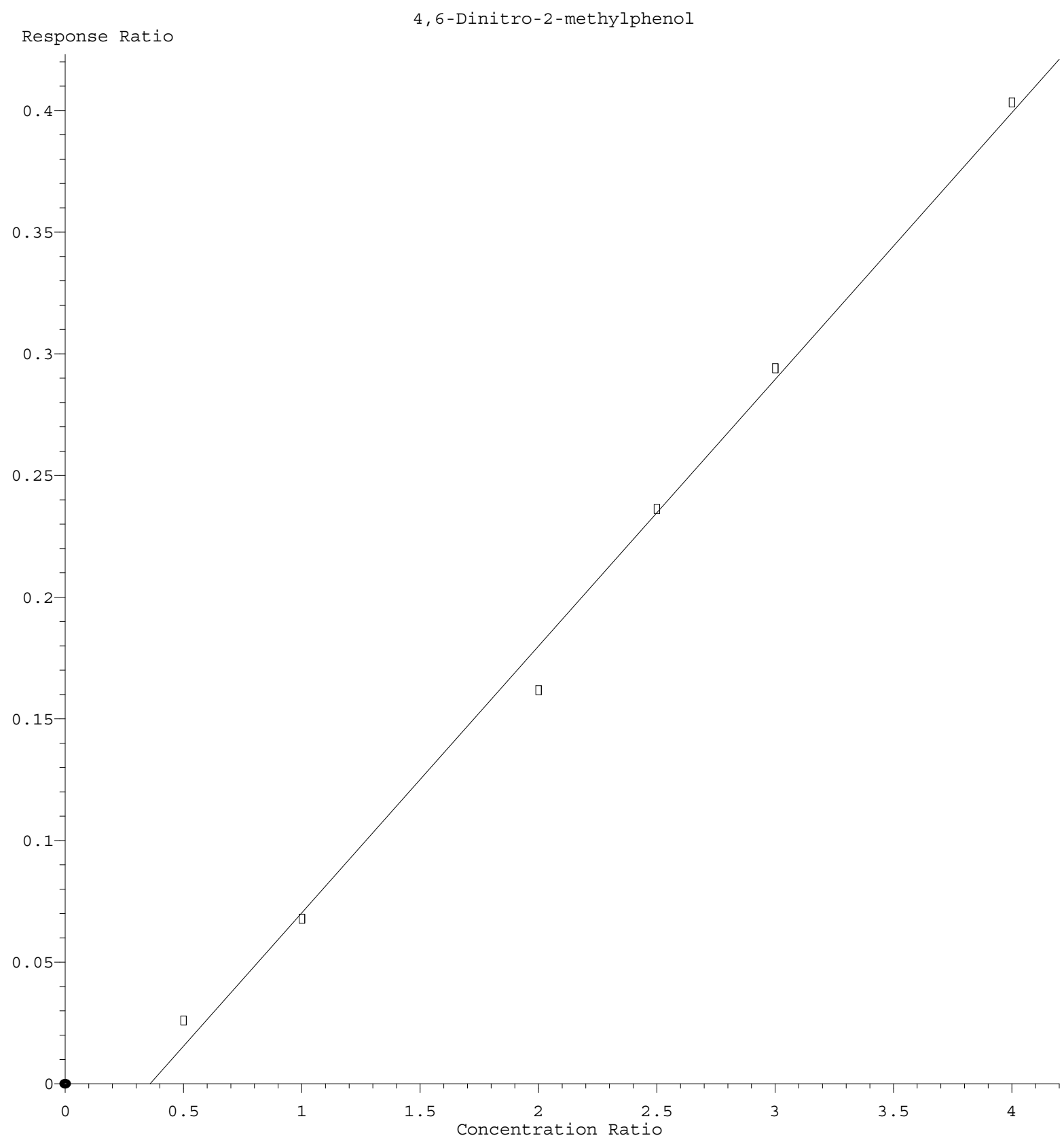
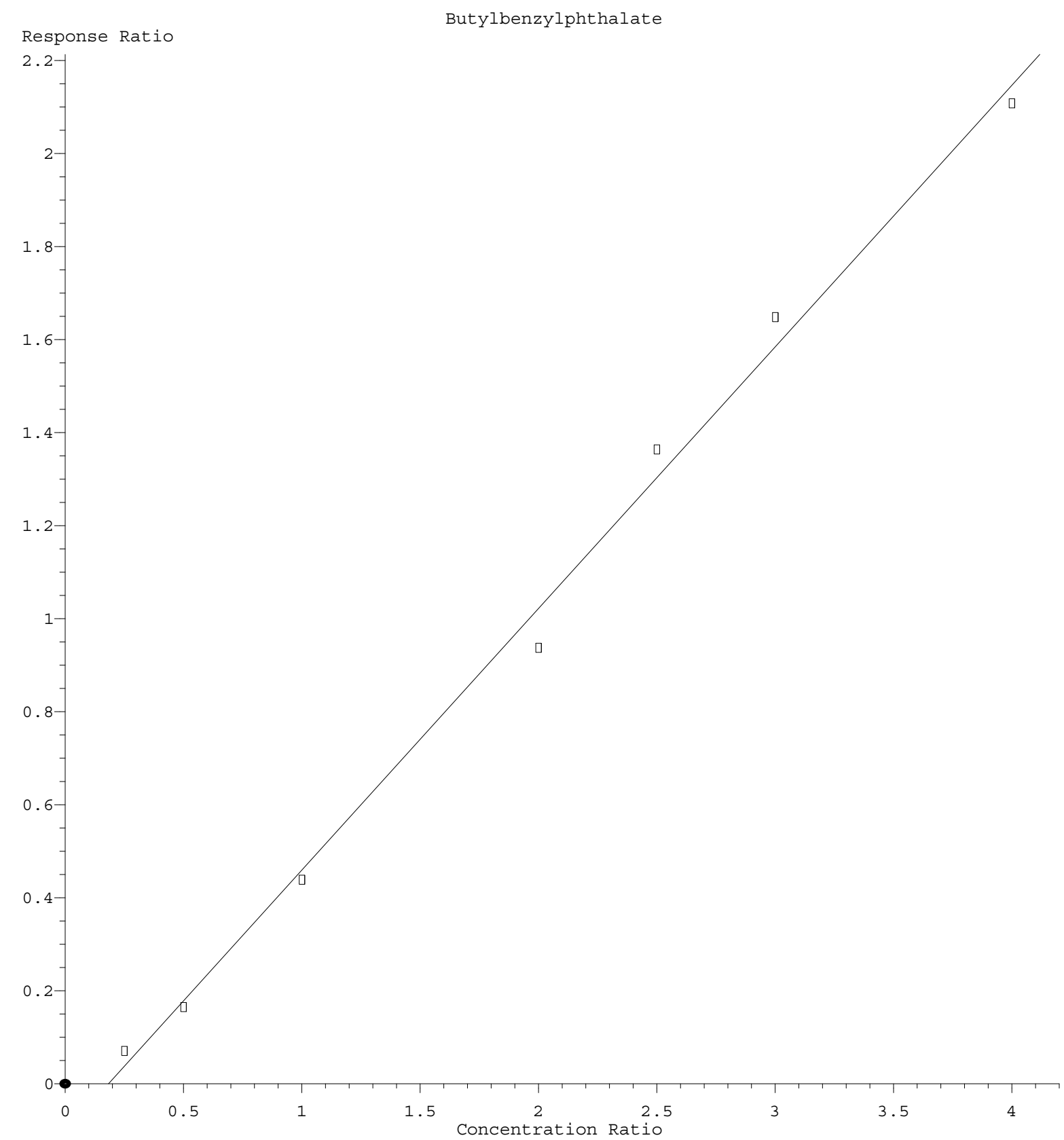
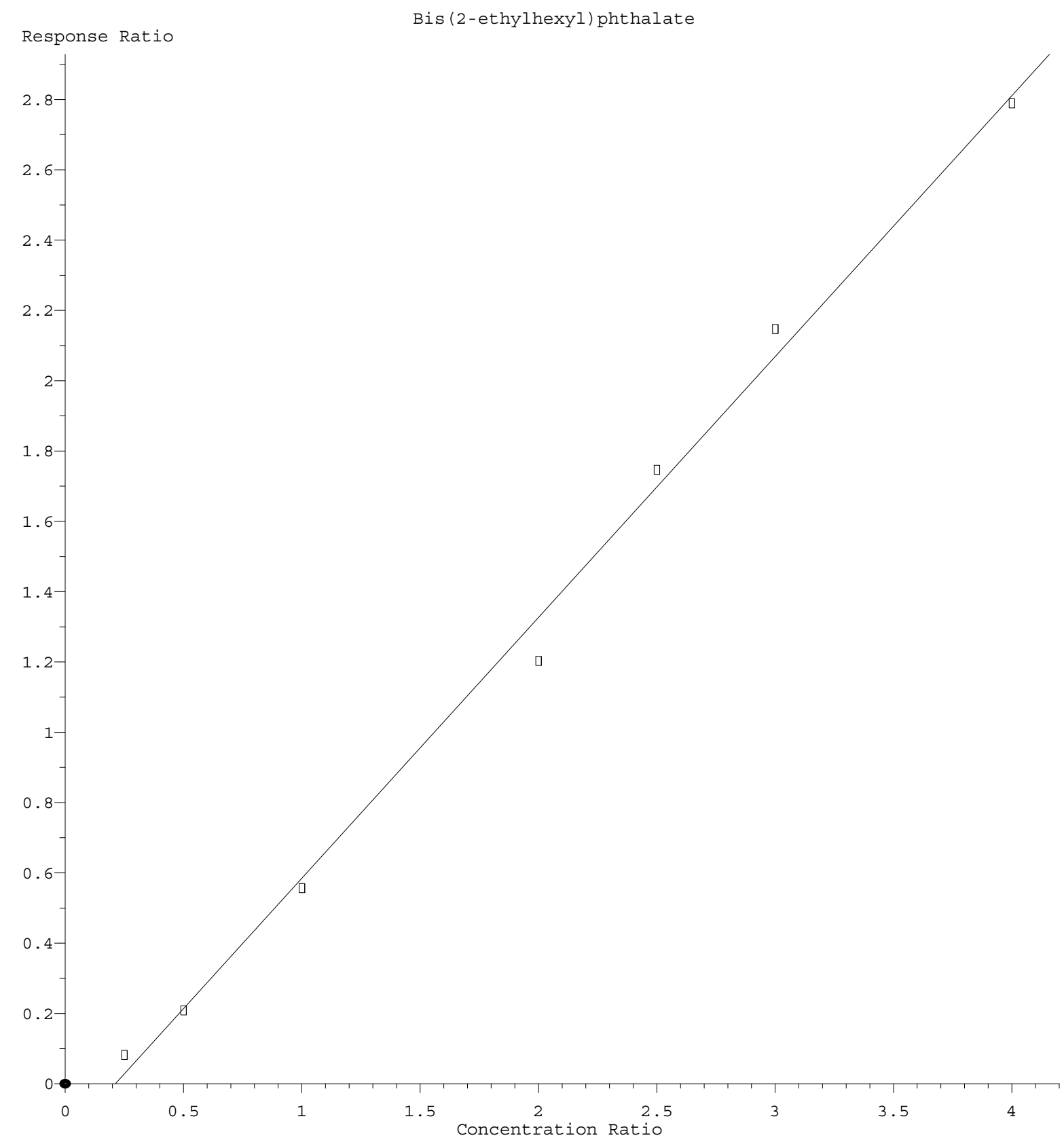


Response = 1.096e-001 * Amt - 3.939e-002
Coef of Det (r^2) = 0.995176 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
Calibration Table Last Updated: Mon May 05 18:41:44 2025



Response = 5.624e-001 * Amt - 1.029e-001
Coef of Det (r^2) = 0.995038 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
Calibration Table Last Updated: Mon May 05 18:41:44 2025



Response = 7.421e-001 * Amt - 1.572e-001
Coef of Det (r^2) = 0.995584 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
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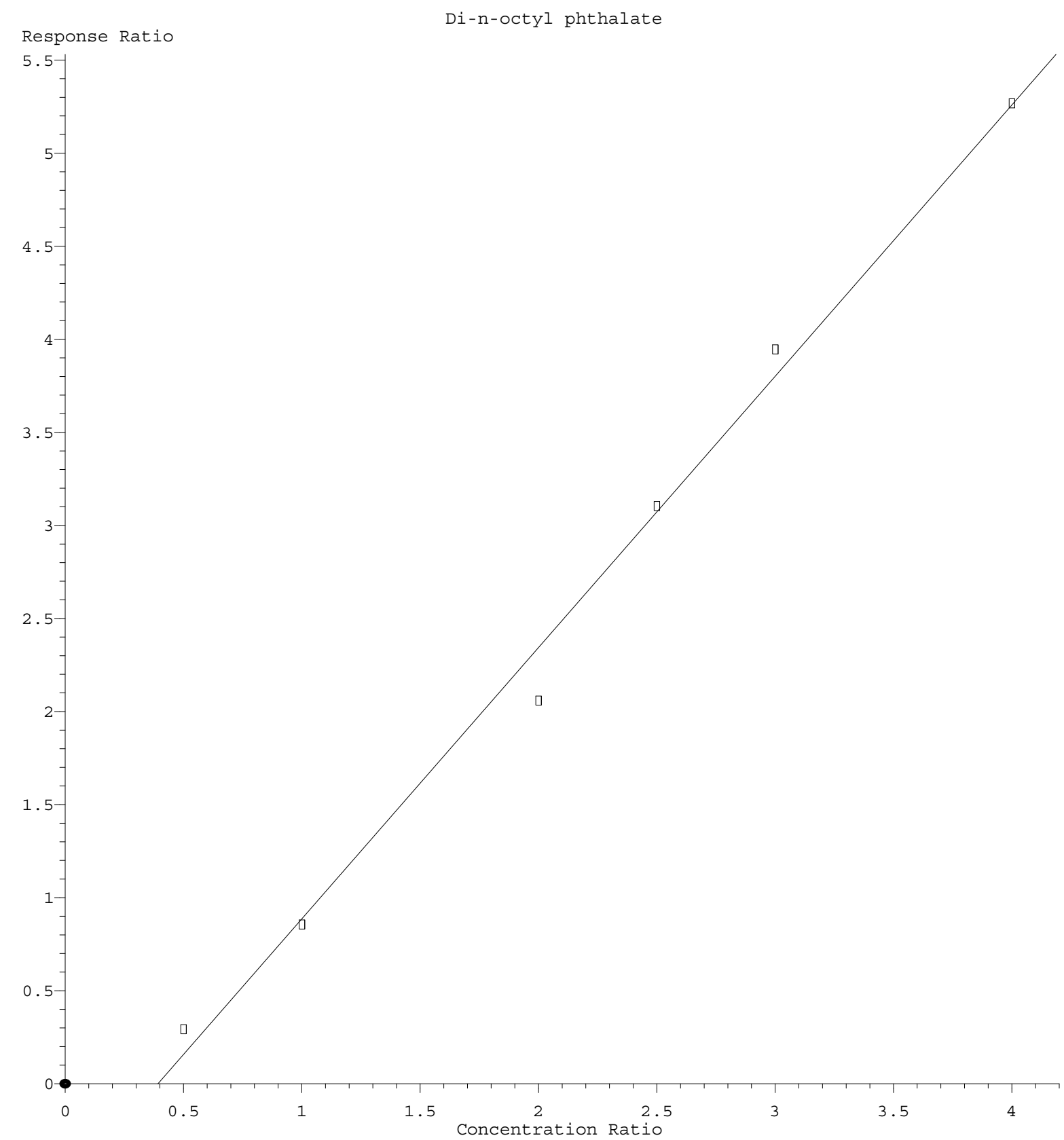

Response = 1.458e+000 * Amt - 5.715e-001
Coef of Det (r^2) = 0.993132 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
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