Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 25 02:09:50 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF132185.D 5 =BF132186.D 10 =BF132187.D 20 =BF132188.D 40 =BF132189.D 50 =BF132190.D 60 =BF132191.D 80 =BF1321
92.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	0.604	0.583	0.593	0.553	0.527	0.480	0.566	8.82
3)		Pyridine		1.700	1.670	1.582	1.603	1.500	1.450	1.333	1.548	8.35
4)		n-Nitrosodimet...		0.742	0.721	0.723	0.744	0.689	0.653	0.583	0.693	8.41
5)	S	2-Fluorophenol		1.243	1.187	1.171	1.150	1.060	1.024	0.929	1.109	9.84
6)		Aniline		2.141	2.054	2.011	1.940	1.815	1.748	1.632	1.906	9.52
7)	S	Phenol-d6		1.552	1.488	1.458	1.404	1.296	1.239	1.123	1.366	11.16
8)		2-Chlorophenol		1.216	1.231	1.237	1.205	1.111	1.064	0.967	1.147	8.99
9)		Benzaldehyde		1.204	1.127	1.046	0.954	0.790	0.723		0.974	19.40
10)	C	Phenol		1.615	1.562	1.542	1.488	1.361	1.293	1.169	1.433	11.38
11)		bis(2-Chloroet...		1.405	1.322	1.295	1.239	1.135	1.083	0.987	1.209	12.18
12)		1,3-Dichlorobe...		1.545	1.477	1.442	1.384	1.272	1.226	1.130	1.354	11.03
13)	C	1,4-Dichlorobe...		1.558	1.463	1.427	1.395	1.281	1.228	1.124	1.354	11.07
14)		1,2-Dichlorobe...		1.479	1.404	1.365	1.280	1.175	1.114	1.009	1.261	13.42
15)		Benzyl Alcohol		1.106	1.121	1.168	1.170	1.105	1.038	0.950	1.094	7.07
16)		2,2'-oxybis(1-...		1.956	1.770	1.721	1.606	1.426	1.322		1.634	14.24
17)		2-Methylphenol		1.105	1.107	1.088	1.065	0.989	0.945	0.871	1.024	8.92
18)		Hexachloroethane		0.484	0.484	0.493	0.494	0.469	0.451	0.415	0.470	6.07
19)	P	n-Nitroso-di-n...	0.914	1.083	1.017	0.979	0.915	0.833	0.782	0.711	0.904	13.71
20)		3+4-Methylphenols		1.410	1.405	1.421	1.352	1.230	1.165	1.027	1.287	11.75
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.569	0.527	0.515	0.475	0.456	0.440	0.397	0.483	12.08
23)	S	Nitrobenzene-d5		0.378	0.383	0.396	0.385	0.378	0.360	0.334	0.373	5.48
24)		Nitrobenzene		0.409	0.416	0.422	0.407	0.390	0.377	0.341	0.395	7.19
25)		Isophorone		0.760	0.731	0.740	0.714	0.702	0.686	0.646	0.711	5.33
26)	C	2-Nitrophenol		0.108	0.121	0.138	0.156	0.164	0.165	0.165	0.145	16.10
27)		2,4-Dimethylph...		0.293	0.293	0.307	0.306	0.302	0.294	0.277	0.296	3.50
28)		bis(2-Chloroet...		0.478	0.447	0.441	0.413	0.397	0.382	0.353	0.416	10.30
29)	C	2,4-Dichloroph...		0.282	0.287	0.306	0.309	0.309	0.301	0.281	0.297	4.22
30)		1,2,4-Trichlor...		0.386	0.363	0.368	0.358	0.348	0.336	0.316	0.354	6.42
31)		Naphthalene		1.143	1.073	1.041	0.958	0.924	0.885	0.811	0.976	11.83
32)		Benzoic acid			0.126	0.149	0.182	0.192	0.202	0.211	0.177	18.69
33)		4-Chloroaniline		0.463	0.445	0.448	0.426	0.411	0.398	0.367	0.423	7.88
34)	C	Hexachlorobuta...		0.246	0.235	0.245	0.246	0.241	0.235	0.221	0.238	3.75
35)		Caprolactam		0.061	0.065	0.077	0.082	0.085	0.083	0.080	0.076	12.41
36)	C	4-Chloro-3-met...		0.282	0.283	0.303	0.300	0.298	0.289	0.271	0.289	4.01
37)		2-Methylnaphth...		0.811	0.760	0.750	0.710	0.677	0.651	0.597	0.708	10.24
38)		1-Methylnaphth...		0.746	0.700	0.693	0.651	0.624	0.600	0.554	0.653	10.09

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Method File : 8270-BF012423.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.741	0.704	0.734	0.722	0.698	0.679	0.635	0.702	5.17
41)	P	Hexachlorocycl...		0.300	0.345	0.389	0.409	0.417	0.407	0.378	12.20
42)	S	2,4,6-Tribromo...	0.159	0.163	0.179	0.196	0.204	0.207	0.208	0.188	11.09
43)	C	2,4,6-Trichlor...	0.350	0.370	0.420	0.437	0.445	0.434	0.419	0.411	8.83
44)		2,4,5-Trichlor...	0.426	0.443	0.495	0.511	0.517	0.501	0.476	0.481	7.26
45)	S	2-Fluorobiphenyl	1.596	1.470	1.421	1.296	1.244	1.161	1.055	1.320	14.19
46)		1,1'-Biphenyl	1.724	1.594	1.598	1.519	1.435	1.374	1.266	1.501	10.32
47)		2-Chloronaphth...	1.298	1.222	1.225	1.181	1.144	1.091	1.024	1.169	7.82
48)		2-Nitroaniline	0.230	0.259	0.313	0.335	0.334	0.328	0.310	0.301	13.53
49)		Acenaphthylene	2.036	1.918	1.891	1.787	1.711	1.644	1.508	1.785	10.07
50)		Dimethylphthalate	1.340	1.342	1.401	1.372	1.359	1.298	1.229	1.334	4.22
51)		2,6-Dinitrotol...	0.235	0.246	0.289	0.305	0.308	0.302	0.293	0.283	10.52
52)	C	Acenaphthene	1.236	1.174	1.183	1.128	1.104	1.057	0.998	1.126	7.19
53)		3-Nitroaniline	0.258	0.272	0.311	0.319	0.325	0.311	0.297	0.299	8.39
54)	P	2,4-Dinitrophenol		0.090	0.111	0.132	0.142	0.147	0.153	0.129	18.53
55)		Dibenzofuran	1.925	1.796	1.774	1.676	1.605	1.525	1.425	1.675	10.26
56)	P	4-Nitrophenol	0.159	0.172	0.205	0.224	0.233	0.232	0.224	0.207	14.55
57)		2,4-Dinitrotol...	0.268	0.292	0.356	0.388	0.391	0.389	0.381	0.352	14.54
58)		Fluorene	1.491	1.377	1.373	1.285	1.248	1.183	1.102	1.294	10.13
59)		2,3,4,6-Tetrac...	0.297	0.317	0.365	0.386	0.395	0.383	0.372	0.359	10.45
60)		Diethylphthalate	1.228	1.256	1.356	1.348	1.316	1.259	1.183	1.278	5.03
61)		4-Chlorophenyl...	0.811	0.753	0.774	0.733	0.722	0.688	0.644	0.732	7.52
62)		4-Nitroaniline	0.246	0.272	0.299	0.308	0.308	0.300	0.285	0.288	7.94
63)		Azobenzene	1.545	1.431	1.399	1.306	1.241	1.161	1.060	1.306	12.79
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.070	0.084	0.098	0.106	0.109	0.112	0.097	17.12
66)	c	n-Nitrosodiphe...	0.650	0.620	0.629	0.603	0.582	0.555	0.531	0.596	7.11
67)		4-Bromophenyl-...	0.245	0.235	0.242	0.243	0.241	0.236	0.232	0.239	1.95
68)		Hexachlorobenzene	0.239	0.229	0.235	0.237	0.239	0.235	0.229	0.235	1.78
69)		Atrazine	0.172	0.182	0.199	0.203	0.194	0.186	0.176	0.188	6.18
70)	C	Pentachlorophenol		0.126	0.144	0.165	0.170	0.168	0.169	0.157	11.54
71)		Phenanthrene	1.134	1.054	1.058	0.997	0.952	0.912	0.847	0.994	9.85
72)		Anthracene	1.142	1.074	1.078	1.008	0.973	0.920	0.859	1.008	9.78
73)		Carbazole	0.921	0.901	0.907	0.866	0.825	0.790	0.735	0.849	8.11
74)		Di-n-butylphth...	0.844	0.917	1.017	1.032	0.986	0.951	0.869	0.945	7.62
75)	C	Fluoranthene	1.136	1.107	1.129	1.068	1.007	0.955	0.873	1.039	9.50
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.490	0.526	0.552	0.578	0.498	0.489	0.434	0.510	9.30
78)		Pyrene	1.811	1.734	1.809	1.882	1.835	1.726	1.639	1.776	4.60
79)	S	Terphenyl-d14	1.345	1.295	1.319	1.344	1.281	1.220	1.130	1.276	6.09
80)		Butylbenzylpht...	0.369	0.408	0.499	0.592	0.598	0.588	0.577	0.519	18.42
81)		Benzo(a)anthra...	1.460	1.444	1.461	1.467	1.427	1.375	1.326	1.423	3.73
82)		3,3'-Dichlorob...	0.299	0.345	0.399	0.408	0.406	0.403	0.395	0.379	10.88
83)		Chrysene	1.414	1.365	1.370	1.340	1.317	1.282	1.213	1.329	4.96
84)		Bis(2-ethylhex...	0.531	0.600	0.701	0.784	0.784	0.773	0.745	0.703	14.20
85)	c	Di-n-octyl pht...		0.692	0.827	0.995	1.081	1.125	1.146	0.978	18.61

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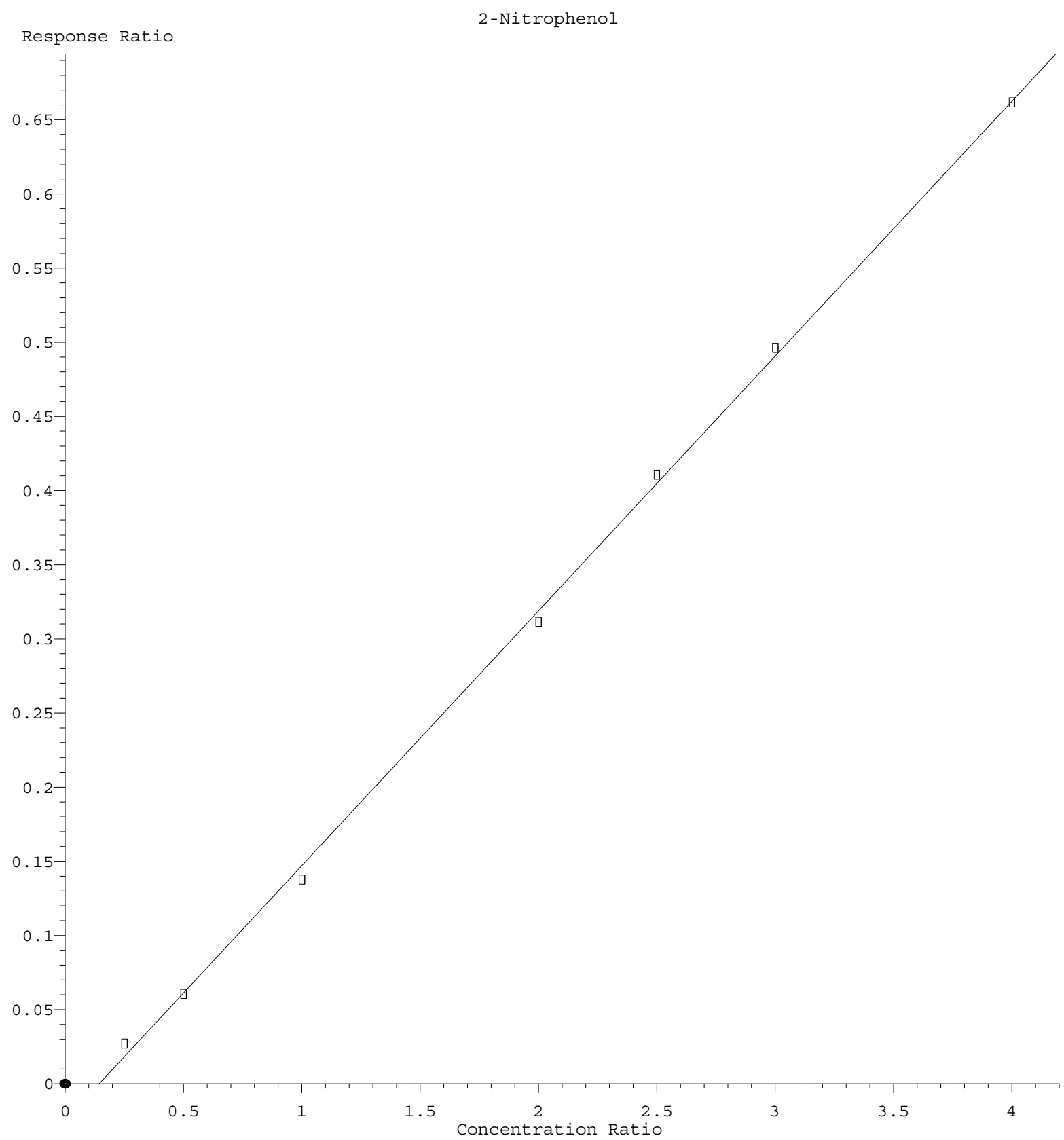
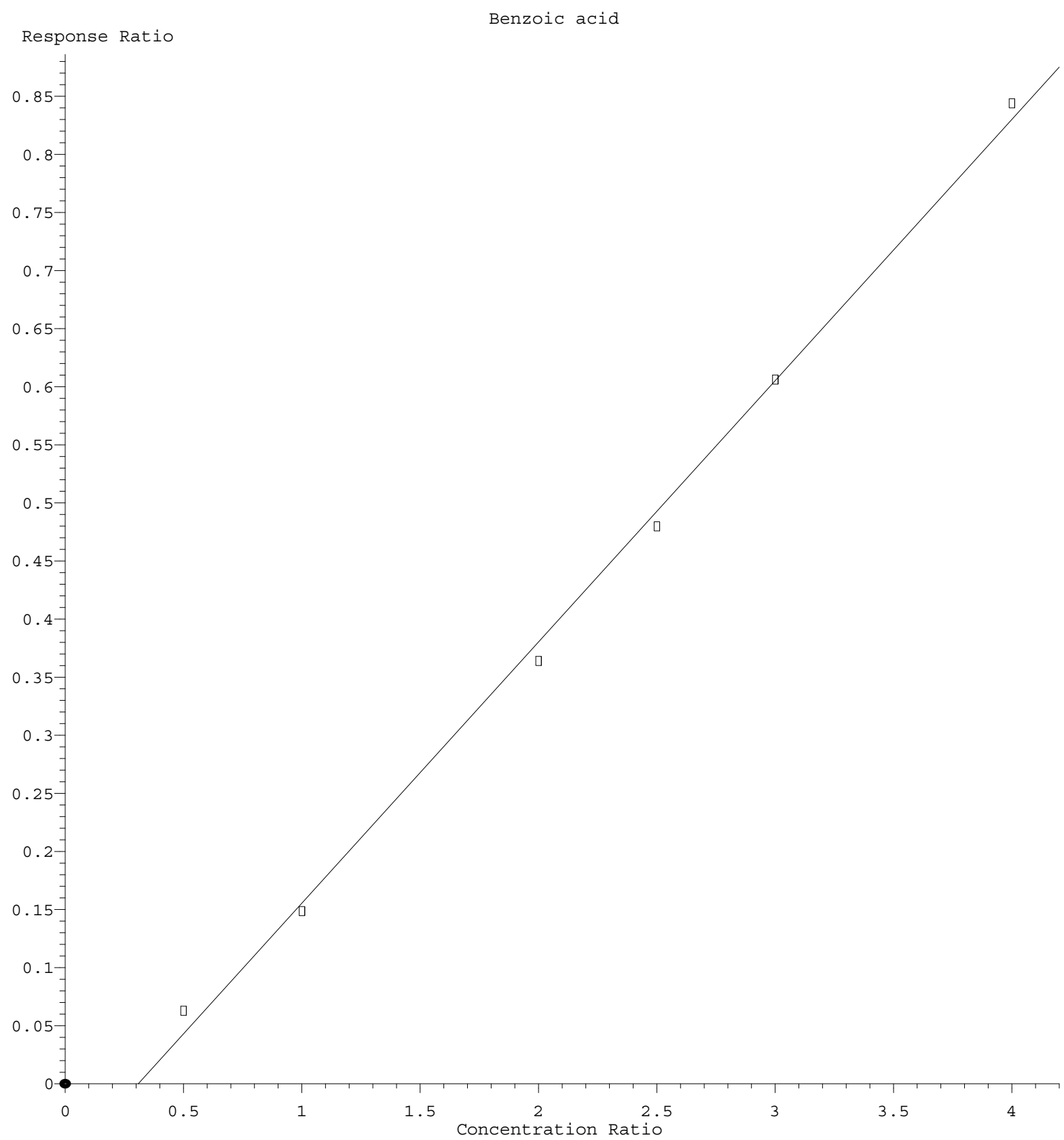
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.091	1.173	1.368	1.495	1.522	1.498	1.471	1.374	12.65
88)		Benzo(b)fluora...	1.263	1.266	1.363	1.313	1.276	1.306	1.183	1.282	4.33
89)		Benzo(k)fluora...	1.431	1.405	1.321	1.359	1.309	1.198	1.137	1.309	8.16
90)	C	Benzo(a)pyrene	1.143	1.141	1.202	1.277	1.257	1.224	1.153	1.200	4.64
91)		Dibenzo(a,h)an...	0.903	0.980	1.140	1.251	1.248	1.221	1.199	1.135	12.22
92)		Benzo(g,h,i)pe...	0.933	0.995	1.147	1.253	1.259	1.234	1.219	1.149	11.55

(#) = Out of Range



Response = 1.720e-001 * Amt - 2.477e-002
Coef of Det (r^2) = 0.999155 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012423.M
Calibration Table Last Updated: Wed Jan 25 02:09:50 2023



Response = 2.248e-001 * Amt - 6.957e-002
Coef of Det (r^2) = 0.997465 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012423.M
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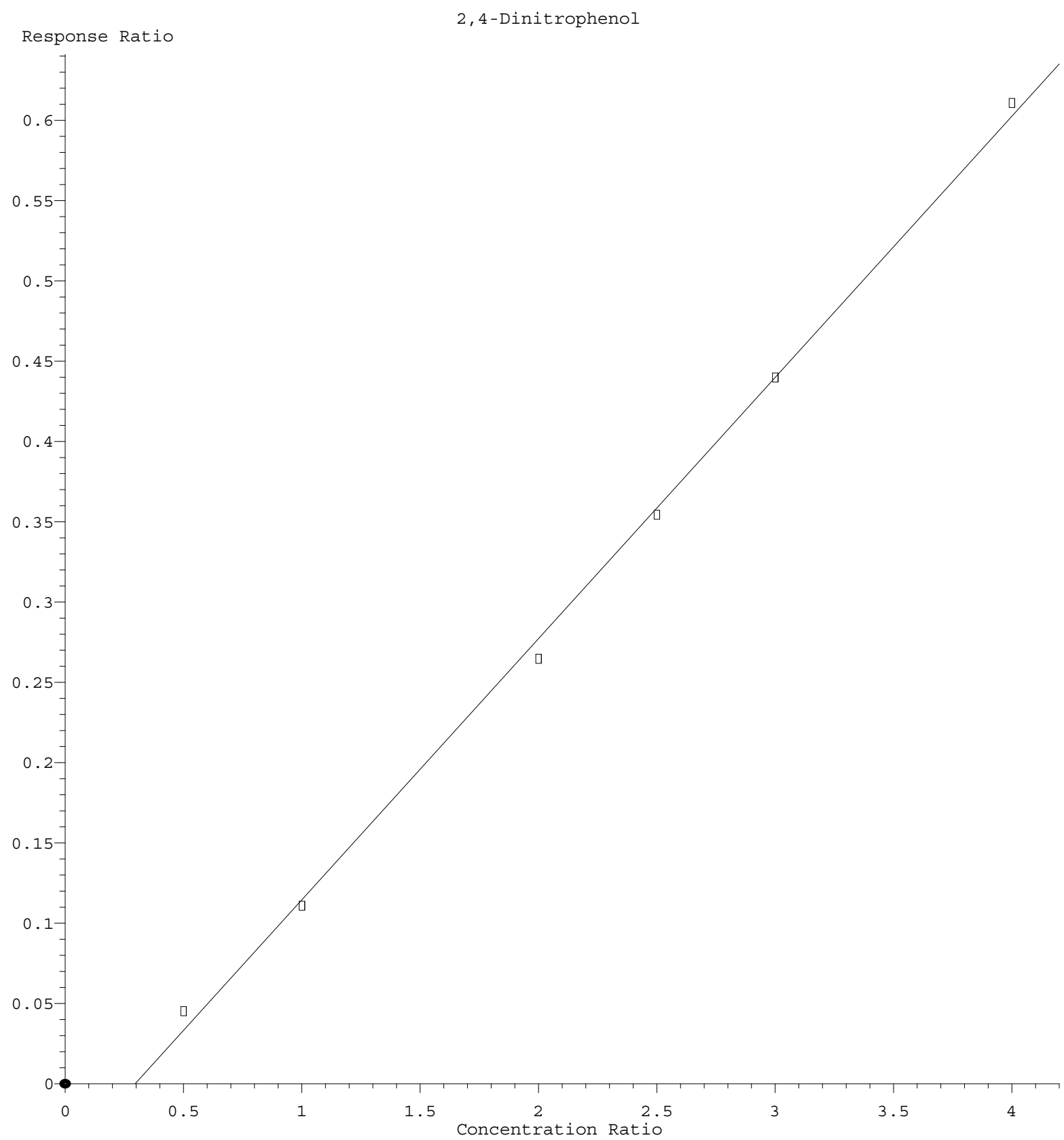
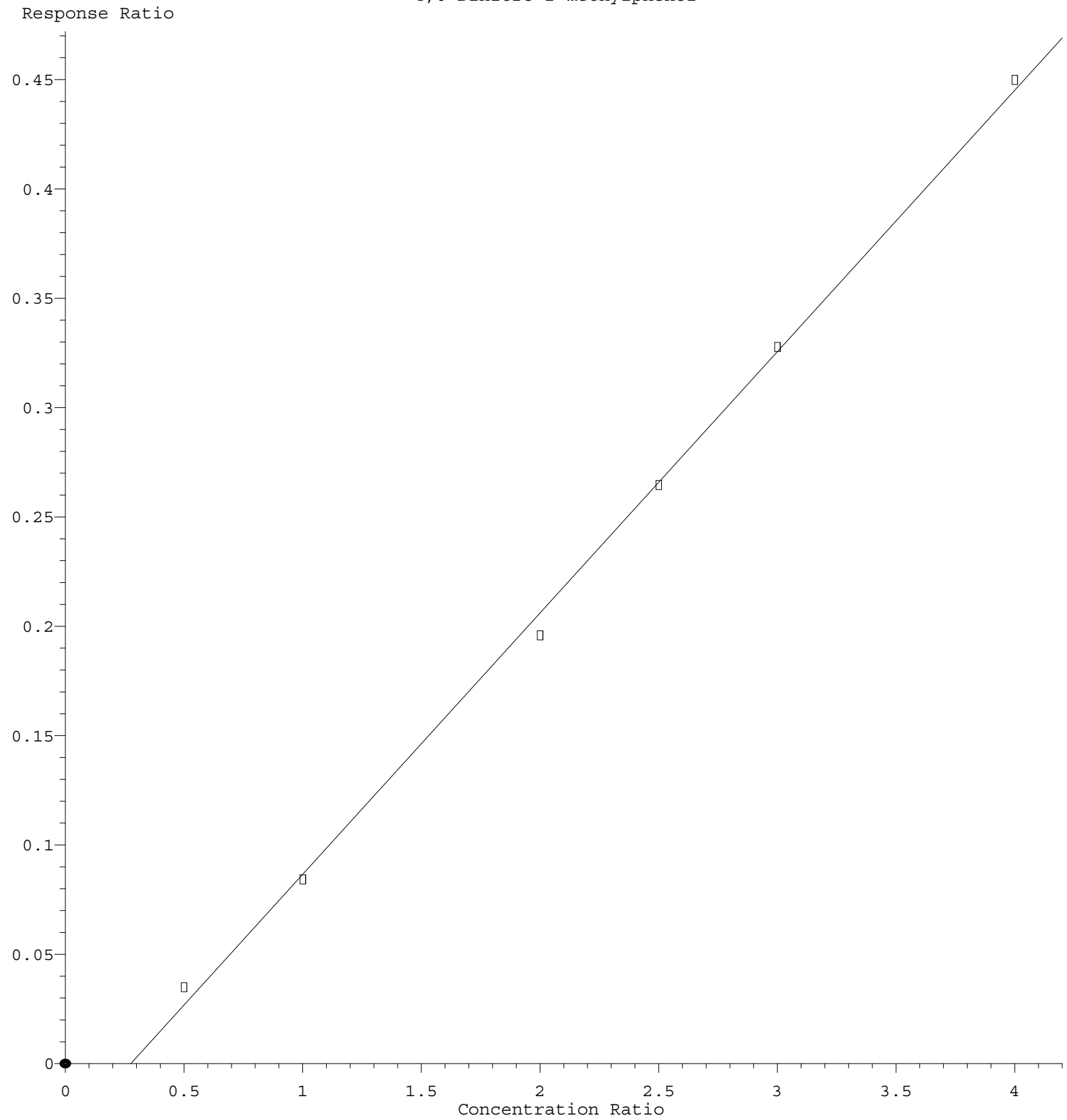
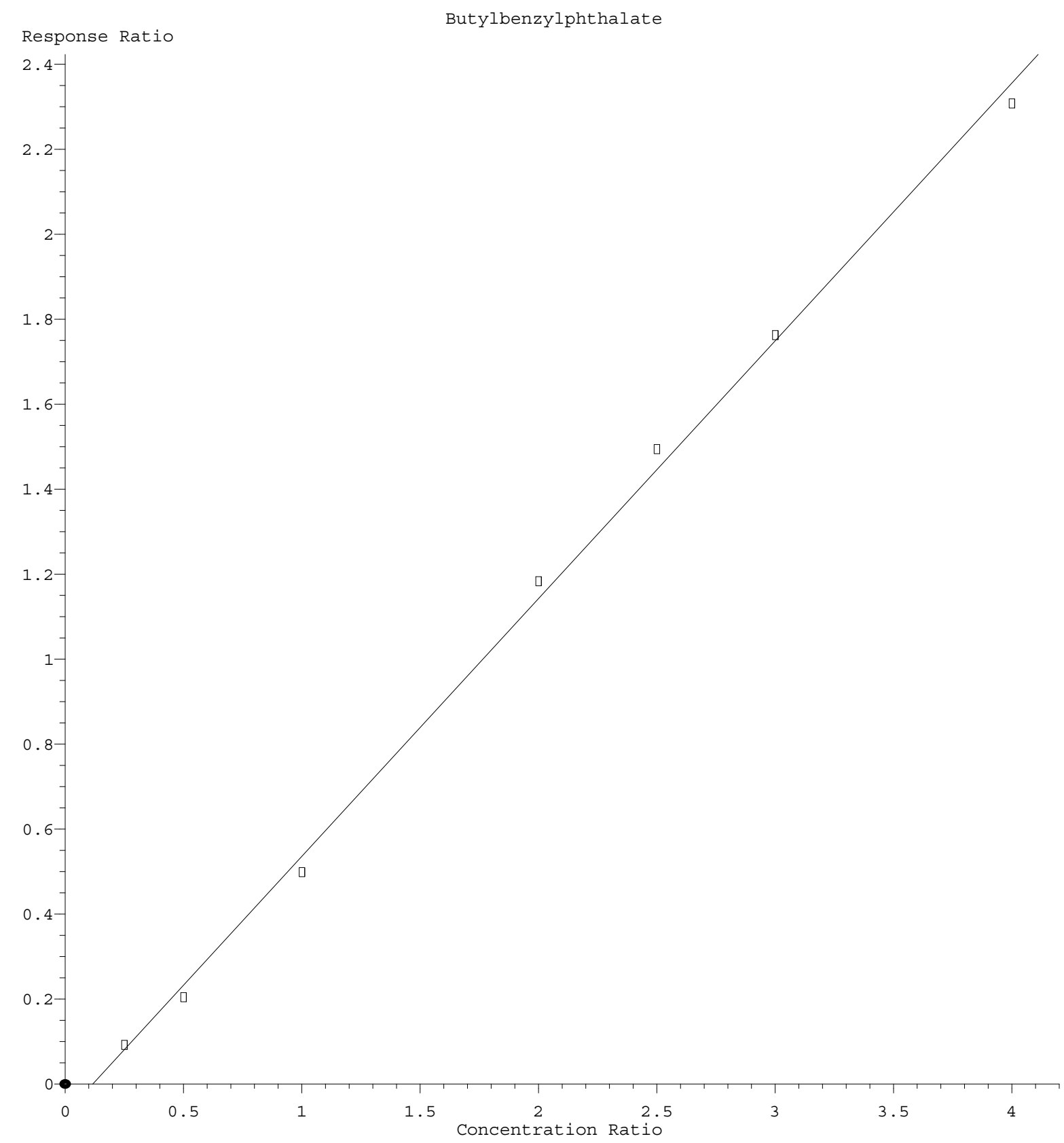


Response = 1.627e-001 * Amt - 4.817e-002
Coef of Det (r^2) = 0.998190 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012423.M
Calibration Table Last Updated: Wed Jan 25 02:09:50 2023

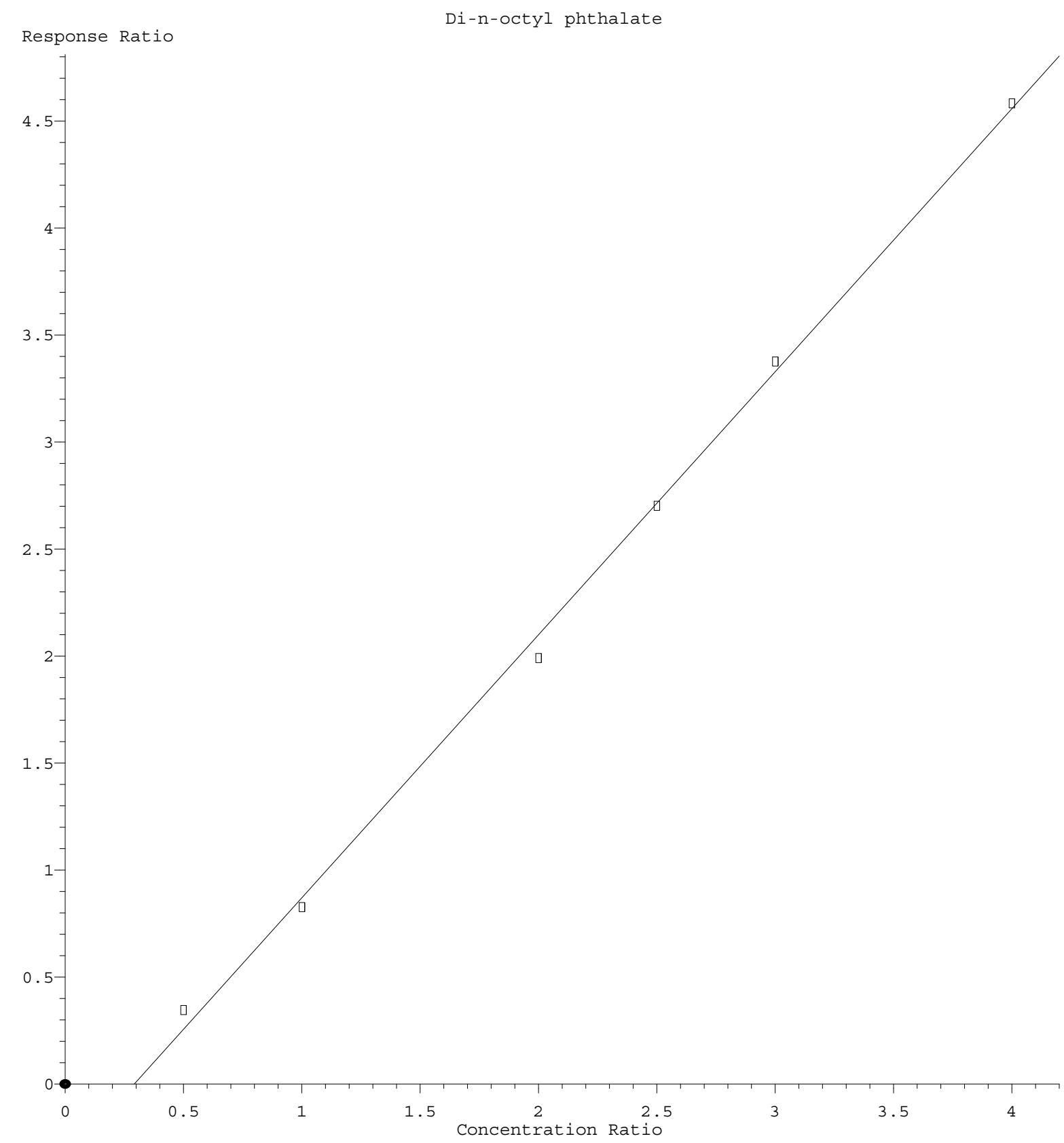
4,6-Dinitro-2-methylphenol



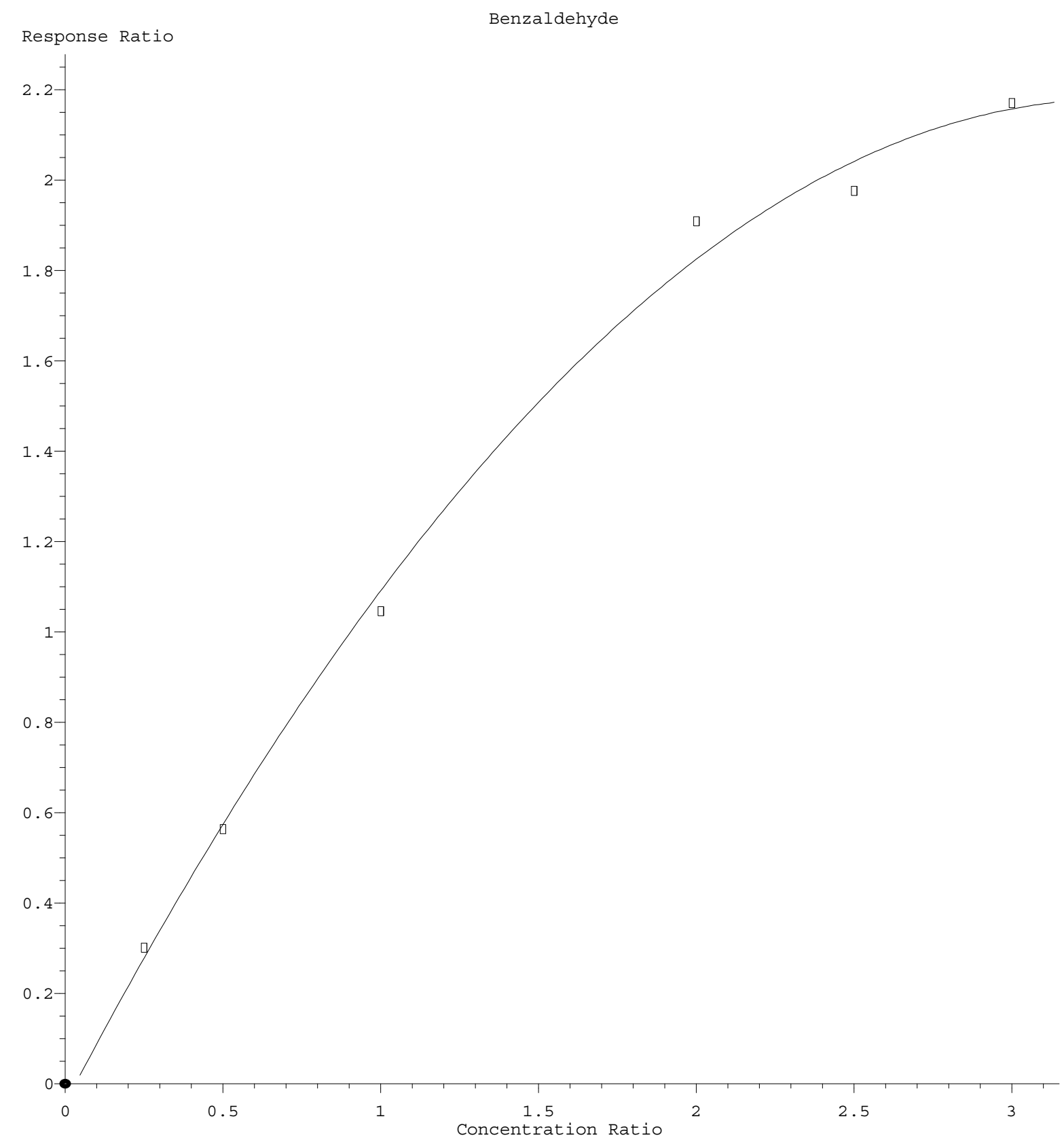
Response = 1.196e-001 * Amt - 3.301e-002
Coef of Det (r^2) = 0.998286 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012423.M
Calibration Table Last Updated: Wed Jan 25 02:09:50 2023



Response = 6.067e-001 * Amt - 7.095e-002
Coef of Det (r^2) = 0.997927 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012423.M
Calibration Table Last Updated: Wed Jan 25 02:09:50 2023



Response = 1.229e+000 * Amt - 3.592e-001
Coef of Det (r^2) = 0.998022 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012423.M
Calibration Table Last Updated: Wed Jan 25 02:09:50 2023



R = -2.004e-001 A*A + 1.335e+000 A - 4.346e-002
Coef of Det (r^2) = 0.995542 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF012423.M
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