

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF011623.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Jan 17 01:48:42 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BF132072.D 5 =BF132073.D 10 =BF132074.D 20 =BF132075.D 40 =BF132076.D 50 =BF132077.D 60 =BF132078.D 80 =BF132079.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.631	0.587	0.590	0.620	0.577	0.546	0.521	0.582	6.60	
3)	Pyridine	1.688	1.622	1.661	1.608	1.528	1.456	1.412	1.568	6.69	
4)	n-Nitrosodimet...	0.630	0.616	0.632	0.655	0.634	0.611	0.591	0.624	3.24	
5) S	2-Fluorophenol	1.215	1.197	1.207	1.161	1.085	1.006	0.926	1.114	10.10	
6)	Aniline	2.150	2.095	2.062	1.987	1.865	1.816	1.734	1.958	7.97	
7) S	Phenol-d6	1.545	1.488	1.511	1.421	1.335	1.255	1.165	1.389	10.23	
8)	2-Chlorophenol	1.122	1.138	1.208	1.194	1.129	1.064	0.980	1.119	6.95	
9)	Benzaldehyde	1.220	1.109	1.052	0.906	0.818	0.720		0.971	19.47	
10) C	Phenol	1.577	1.519	1.548	1.453	1.374	1.272	1.189	1.419	10.35	
11)	bis(2-Chloroet...	1.419	1.352	1.304	1.229	1.161	1.077	1.002	1.220	12.32	
12)	1,3-Dichlorobe...	1.537	1.472	1.436	1.368	1.289	1.197	1.098	1.342	11.69	
13) C	1,4-Dichlorobe...	1.559	1.498	1.429	1.378	1.291	1.192	1.102	1.350	12.19	
14)	1,2-Dichlorobe...	1.484	1.420	1.348	1.240	1.146	1.054	0.953	1.235	15.83	
15)	Benzyl Alcohol	0.867	0.918	1.048	1.092	1.054	1.018	0.973	0.996	8.11	
16)	2,2'-oxybis(1-...	1.581	1.489	1.504	1.415	1.330	1.246	1.152	1.388	11.04	
17)	2-Methylphenol	1.077	1.082	1.106	1.065	1.014	0.967	0.915	1.032	6.76	
18)	Hexachloroethane	0.385	0.379	0.416	0.445	0.440	0.424	0.394	0.412	6.44	
19) P	n-Nitroso-di-n...	0.678	0.855	0.845	0.868	0.806	0.761	0.722	0.683	0.777	9.93
20)	3+4-Methylphenols	1.298	1.380	1.414	1.353	1.257	1.169	1.068	1.277	9.66	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.550	0.521	0.496	0.450	0.436	0.417	0.388	0.465	12.58	
23) S	Nitrobenzene-d5	0.219	0.235	0.283	0.321	0.333	0.333	0.321	0.292	16.33	
24)	Nitrobenzene	0.237	0.264	0.317	0.349	0.359	0.353	0.340	0.317	15.11	
25)	Isophorone	0.712	0.697	0.717	0.684	0.679	0.661	0.652	0.686	3.55	
26) C	2-Nitrophenol	0.049	0.052	0.064	0.093	0.114	0.129	0.135	0.091	40.14#	
27)	2,4-Dimethylph...	0.271	0.291	0.302	0.306	0.305	0.296	0.280	0.293	4.58	
28)	bis(2-Chloroet...	0.426	0.424	0.434	0.410	0.396	0.381	0.357	0.404	6.90	
29) C	2,4-Dichloroph...	0.218	0.247	0.283	0.296	0.298	0.290	0.277	0.273	10.90	
30)	1,2,4-Trichlor...	0.354	0.344	0.339	0.331	0.323	0.309	0.294	0.328	6.31	
31)	Naphthalene	1.169	1.094	1.064	0.990	0.964	0.918	0.838	1.005	11.18	
32)	Benzoic acid		0.051	0.067	0.099	0.135	0.164	0.191	0.118	46.58	
33)	4-Chloroaniline	0.451	0.449	0.450	0.424	0.416	0.401	0.384	0.425	6.24	
34) C	Hexachlorobuta...	0.215	0.210	0.213	0.209	0.207	0.200	0.188	0.206	4.60	
35)	Caprolactam		0.038	0.062	0.079	0.088	0.088	0.093	0.075	28.62	
36) C	4-Chloro-3-met...	0.244	0.273	0.303	0.301	0.299	0.290	0.280	0.284	7.37	
37)	2-Methylnaphth...	0.800	0.760	0.750	0.675	0.648	0.621	0.579	0.690	11.80	
38)	1-Methylnaphth...	0.743	0.703	0.681	0.628	0.604	0.585	0.535	0.640	11.34	

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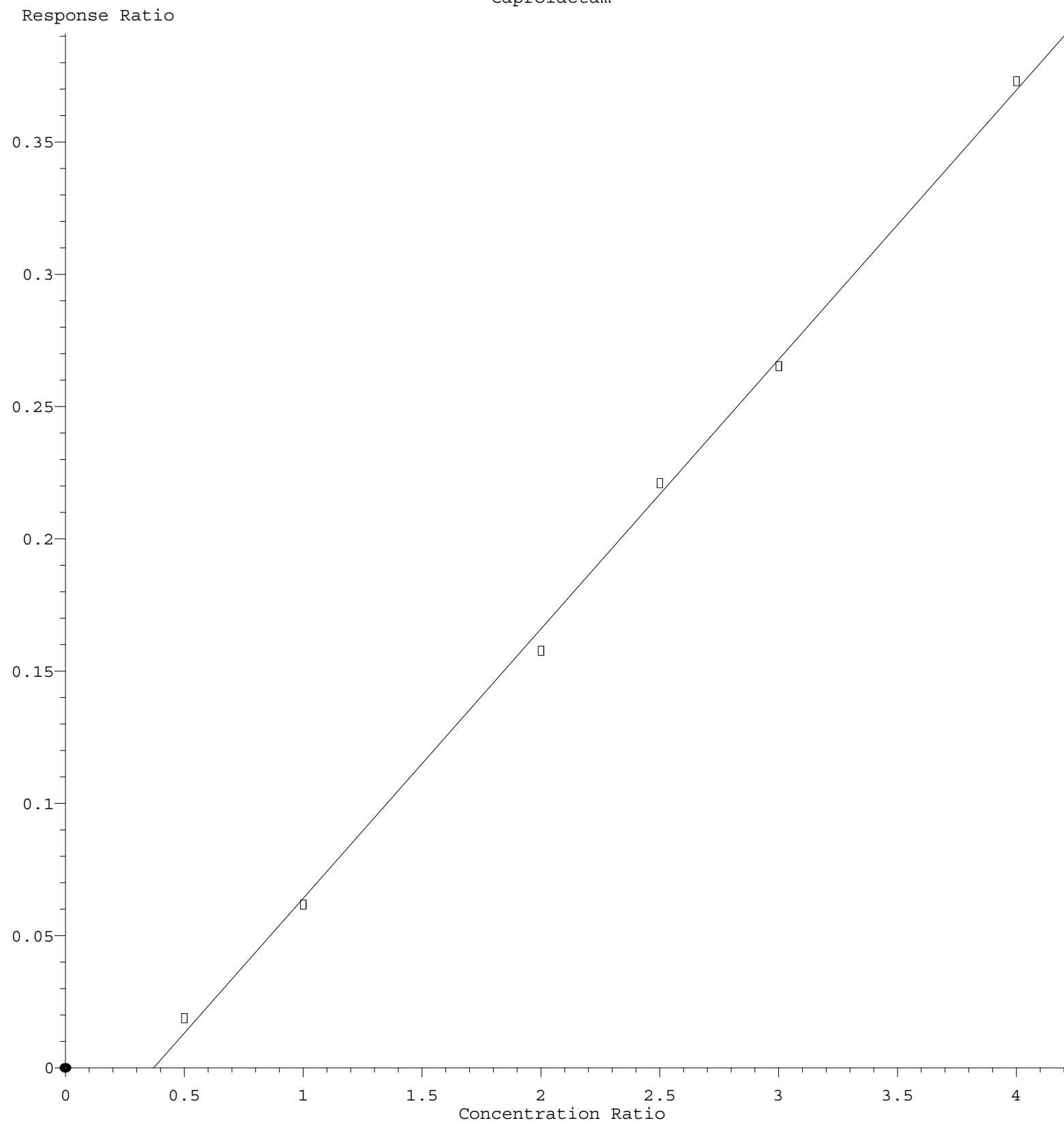
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.705	0.686	0.673	0.644	0.614	0.585	0.533	0.634	9.62	
41) P	Hexachlorocycl...		0.185	0.236	0.283	0.312	0.325	0.323	0.277	20.29	
42) S	2,4,6-Tribromo...		0.137	0.189	0.203	0.208	0.208	0.202	0.191	14.28	
43) C	2,4,6-Trichlor...	0.246	0.288	0.365	0.412	0.412	0.400	0.377	0.357	18.22	
44)	2,4,5-Trichlor...	0.312	0.370	0.432	0.457	0.461	0.453	0.439	0.418	13.45	
45) S	2-Fluorobiphenyl	1.609	1.511	1.417	1.238	1.155	1.094	0.985	1.287	17.93	
46)	1,1'-Biphenyl	1.787	1.691	1.625	1.505	1.438	1.356	1.236	1.520	12.78	
47)	2-Chloronaphth...	1.359	1.265	1.237	1.156	1.121	1.069	0.986	1.171	10.80	
48)	2-Nitroaniline	0.100	0.106	0.158	0.236	0.272	0.293	0.305	0.210	41.75	
49)	Acenaphthylene	2.163	2.090	2.054	1.915	1.824	1.748	1.610	1.915	10.45	
50)	Dimethylphthalate	1.042	1.240	1.411	1.391	1.357	1.315	1.265	1.289	9.75	
51)	2,6-Dinitrotol...	0.115	0.134	0.195	0.250	0.270	0.277	0.276	0.217	31.95	
52) C	Acenaphthene	1.274	1.229	1.201	1.109	1.073	1.032	0.967	1.126	9.95	
53)	3-Nitroaniline	0.128	0.150	0.229	0.288	0.302	0.308	0.304	0.244	31.46	
54) P	2,4-Dinitrophenol		0.052	0.067	0.084	0.096	0.106	0.119	0.087	28.57	
55)	Dibenzofuran	1.967	1.862	1.830	1.676	1.629	1.529	1.419	1.702	11.45	
56) P	4-Nitrophenol		0.135	0.188	0.231	0.249	0.247	0.251	0.217	21.43	
57)	2,4-Dinitrotol...	0.132	0.146	0.221	0.307	0.334	0.343	0.359	0.263	36.33	
58)	Fluorene	1.558	1.437	1.377	1.239	1.172	1.118	1.029	1.276	14.78	
59)	2,3,4,6-Tetrac...	0.227	0.259	0.336	0.379	0.374	0.369	0.352	0.328	18.46	
60)	Diethylphthalate	0.709	1.013	1.293	1.312	1.287	1.233	1.174	1.146	19.05	
61)	4-Chlorophenyl...	0.740	0.721	0.708	0.654	0.630	0.594	0.553	0.657	10.61	
62)	4-Nitroaniline	0.142	0.170	0.236	0.277	0.293	0.294	0.296	0.244	26.31	
63)	Azobenzene	1.570	1.479	1.448	1.364	1.302	1.239	1.140	1.363	10.88	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.035	0.044	0.062	0.074	0.080	0.087	0.064	32.36	
66) c	n-Nitrosodiphe...	0.674	0.632	0.620	0.588	0.566	0.534	0.485	0.586	10.87	
67)	4-Bromophenyl-...	0.231	0.231	0.231	0.221	0.215	0.207	0.188	0.218	7.41	
68)	Hexachlorobenzene	0.256	0.245	0.247	0.241	0.238	0.225	0.211	0.238	6.40	
69)	Atrazine	0.077	0.115	0.168	0.187	0.186	0.181	0.170	0.155	27.28	
70) C	Pentachlorophenol		0.100	0.137	0.162	0.167	0.165	0.156	0.148	17.63	
71)	Phenanthrene	1.208	1.107	1.077	1.004	0.962	0.907	0.801	1.010	13.41	
72)	Anthracene	1.218	1.158	1.114	1.025	0.977	0.920	0.814	1.032	13.74	
73)	Carbazole	1.065	1.025	1.001	0.931	0.890	0.837	0.750	0.928	12.05	
74)	Di-n-butylphth...	0.278	0.393	0.786	0.958	0.980	0.926	0.844	0.738	38.59	
75) C	Fluoranthene	1.338	1.270	1.247	1.137	1.085	0.994	0.883	1.136	14.28	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzydine	0.083	0.130	0.253	0.487	0.444	0.521	0.429	0.335	53.24	
78)	Pyrene	1.624	1.590	1.678	1.764	1.702	1.673	1.547	1.654	4.40	
79) S	Terphenyl-d14	1.130	1.091	1.082	1.071	1.026	1.018	0.950	1.053	5.62	
80)	Butylbenzylphth...	0.118	0.112	0.137	0.226	0.325	0.407		0.221	55.50	
81)	Benzo(a)anthra...	1.430	1.396	1.429	1.406	1.343	1.301	1.232	1.362	5.45	
82)	3,3'-Dichlorob...		0.200	0.322	0.383	0.385	0.374	0.358	0.337	21.02	
83)	Chrysene	1.399	1.346	1.325	1.309	1.253	1.187	1.136	1.279	7.25	
84)	Bis(2-ethylhex...	0.158	0.161	0.212	0.425	0.561	0.613	0.642	0.396	54.66	
85) c	Di-n-octyl pht...		0.222	0.275	0.527	0.756	0.865	0.983	0.605	52.04#	

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	0.956	1.002	1.291	1.415	1.412	1.386	1.334	1.257	15.53
88)	Benzo(b)fluora...	1.269	1.271	1.269	1.297	1.203	1.147	1.133	1.227	5.37
89)	Benzo(k)fluora...	1.330	1.318	1.315	1.180	1.155	1.115	0.998	1.202	10.44
90) C	Benzo(a)pyrene	1.135	1.152	1.186	1.185	1.157	1.122	1.070	1.144	3.50
91)	Dibenzo(a,h)an...	0.779	0.790	1.058	1.154	1.157	1.132	1.070	1.020	16.22
92)	Benzo(g,h,i)pe...	0.796	0.819	1.085	1.191	1.181	1.176	1.138	1.055	16.40

(#) = Out of Range

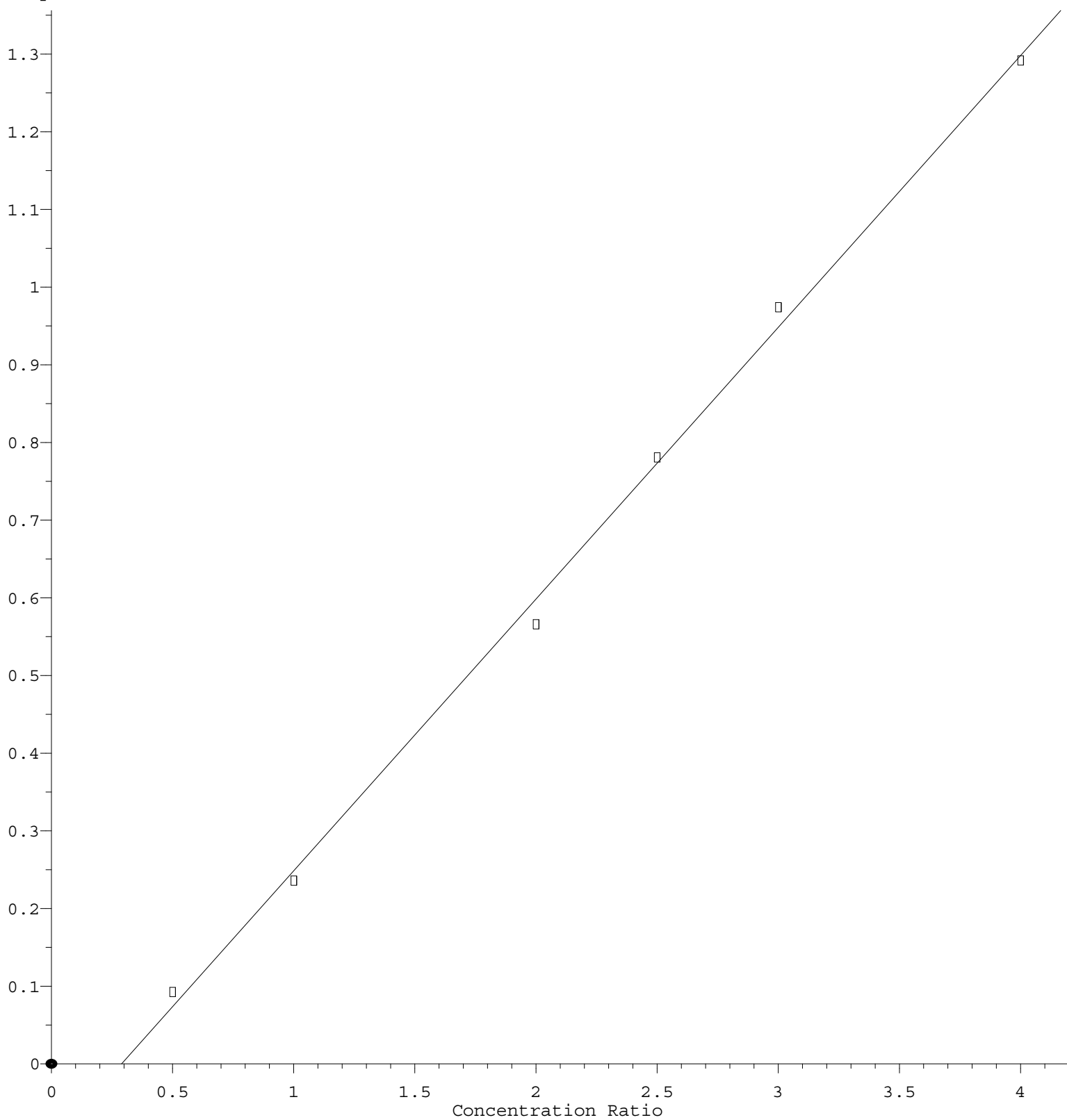
Caprolactam



Response = $1.019 \times 10^{-1} \times \text{Amt} - 3.781 \times 10^{-2}$
 Coef of Det (r^2) = 0.998378 Curve Fit: Linear
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Hexachlorocyclopentadiene

Response Ratio



$$\text{Response} = 3.500\text{e-}001 * \text{Amt} - 1.015\text{e-}001$$

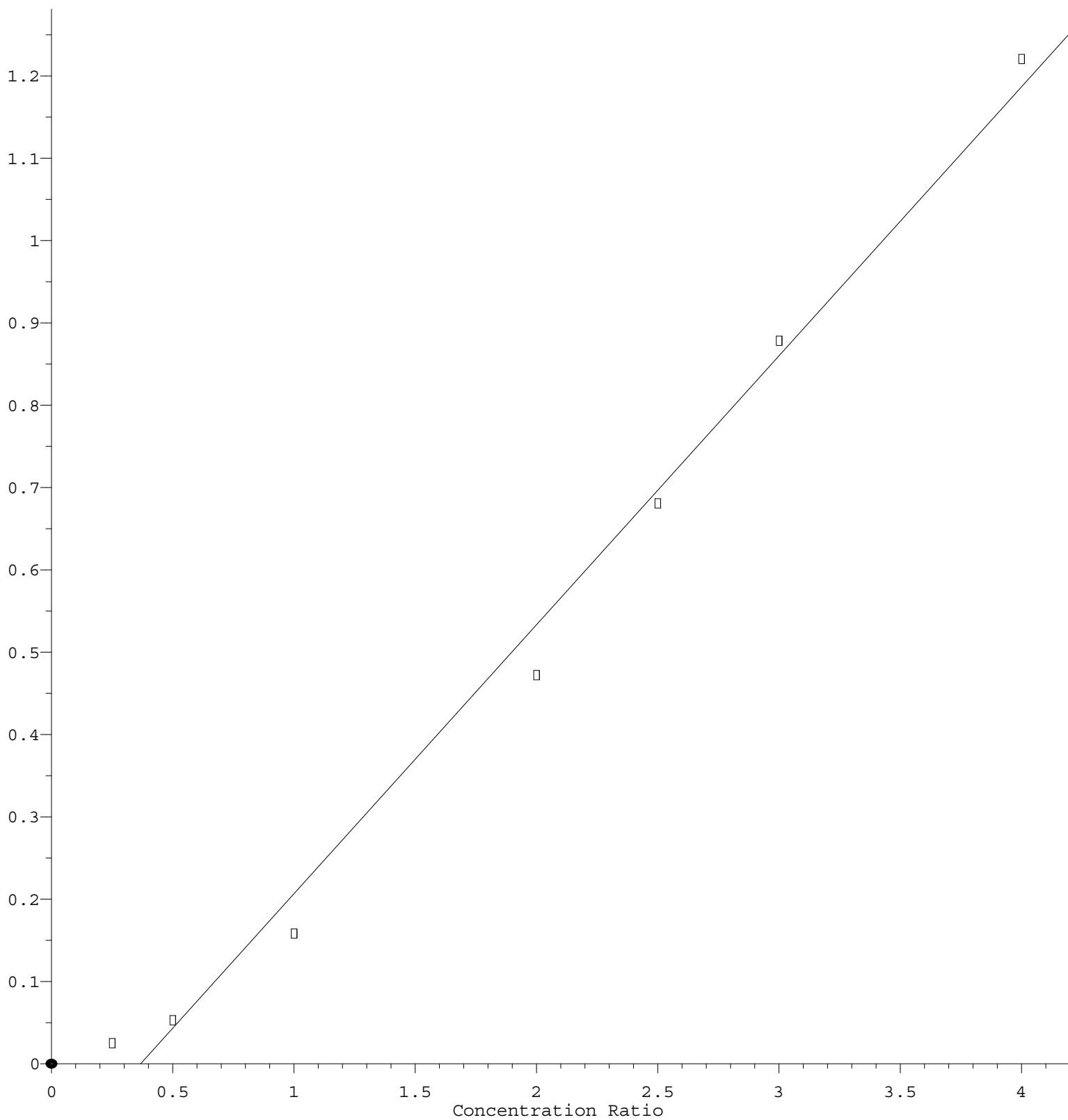
Coef of Det (r^2) = 0.997720 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.268\text{e-}001 * \text{Amt} - 1.203\text{e-}001$$

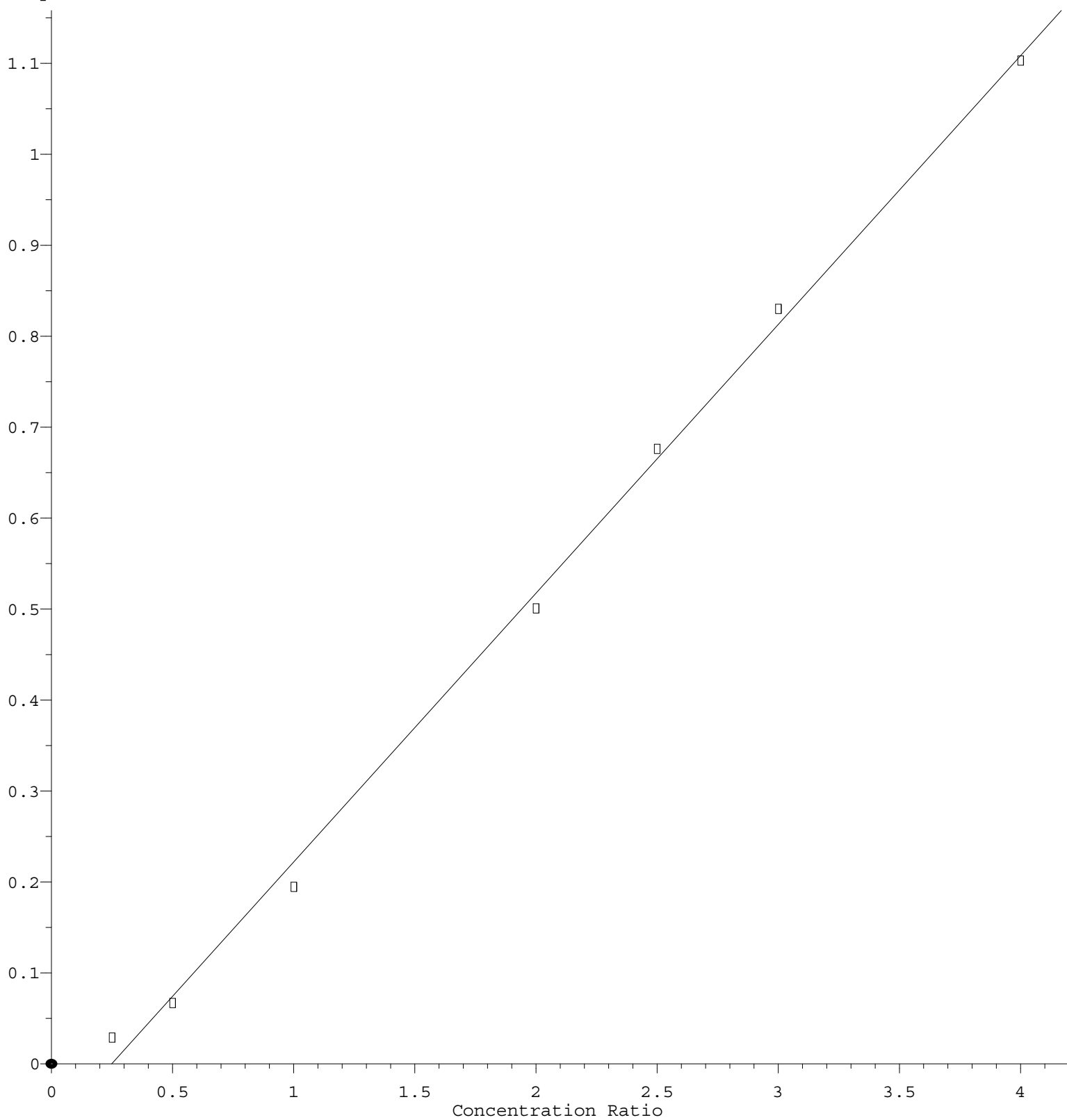
Coef of Det (r^2) = 0.990361 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011623.M

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.955\text{e-}001 * \text{Amt} - 7.361\text{e-}002$$

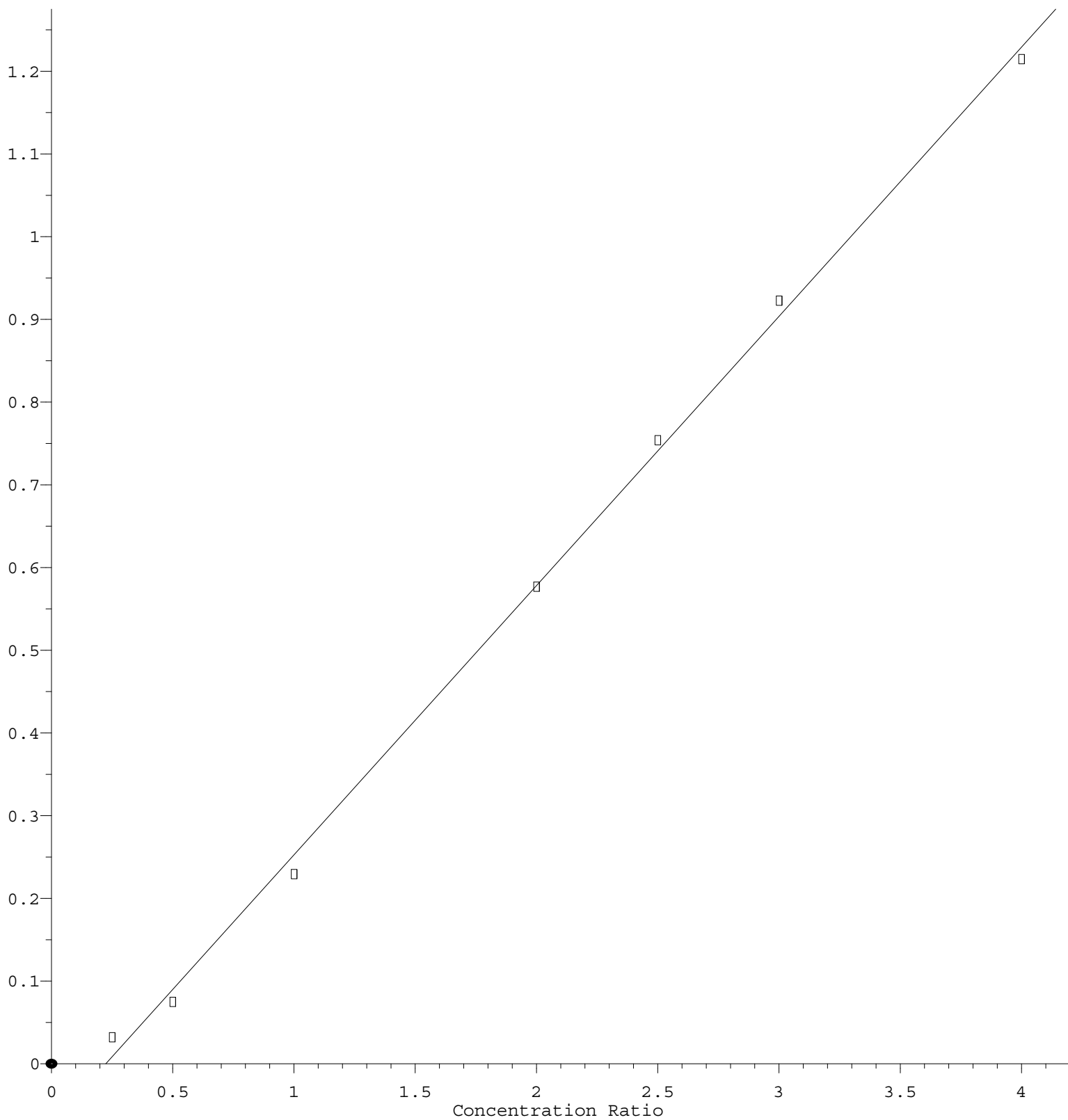
Coef of Det (r^2) = 0.997679 Curve Fit: Linear

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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.256\text{e-}001 * \text{Amt} - 7.289\text{e-}002$$

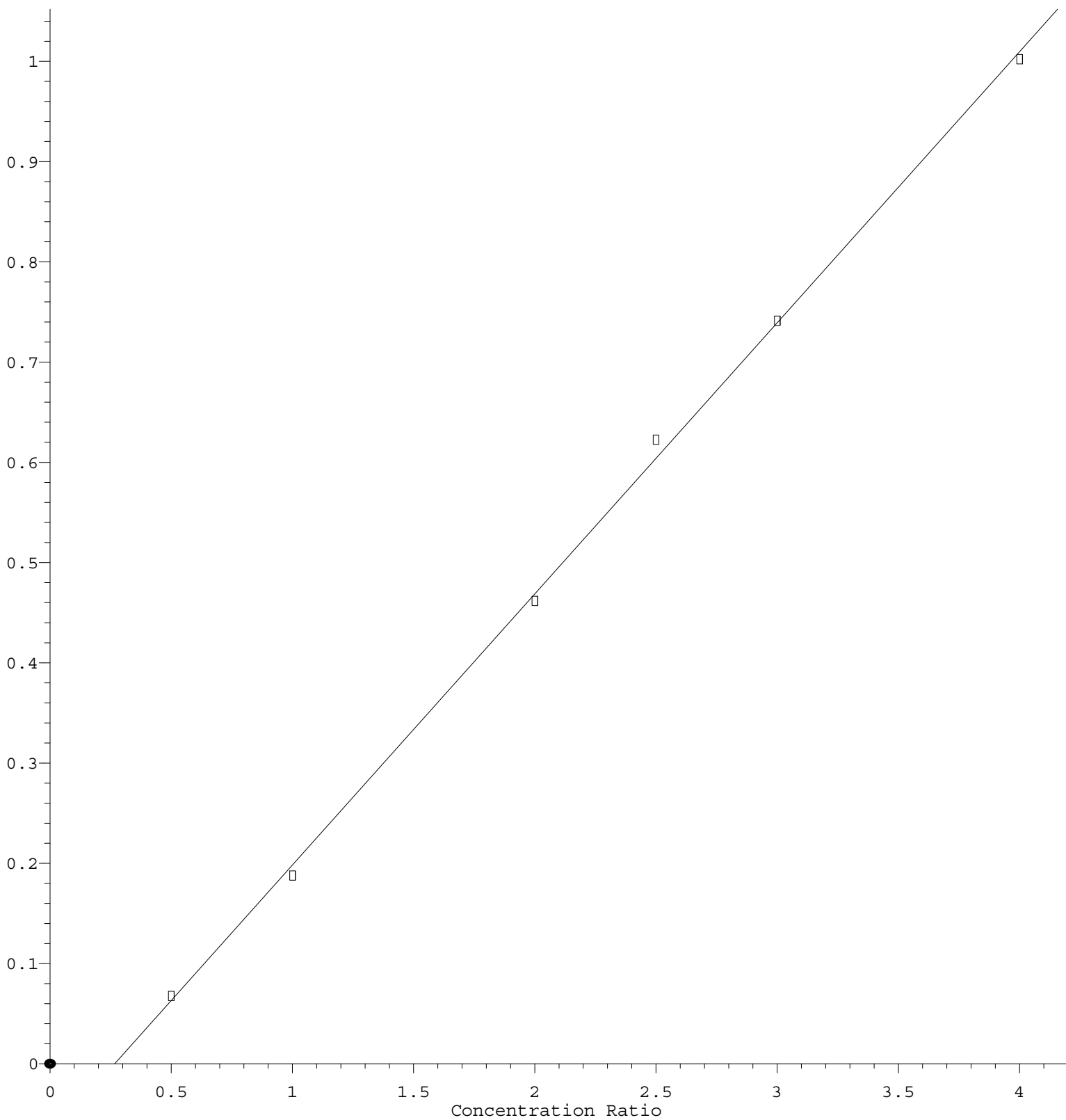
Coef of Det (r^2) = 0.998305 Curve Fit: Linear

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4-Nitrophenol

Response Ratio



$$\text{Response} = 2.704\text{e-}001 * \text{Amt} - 7.214\text{e-}002$$

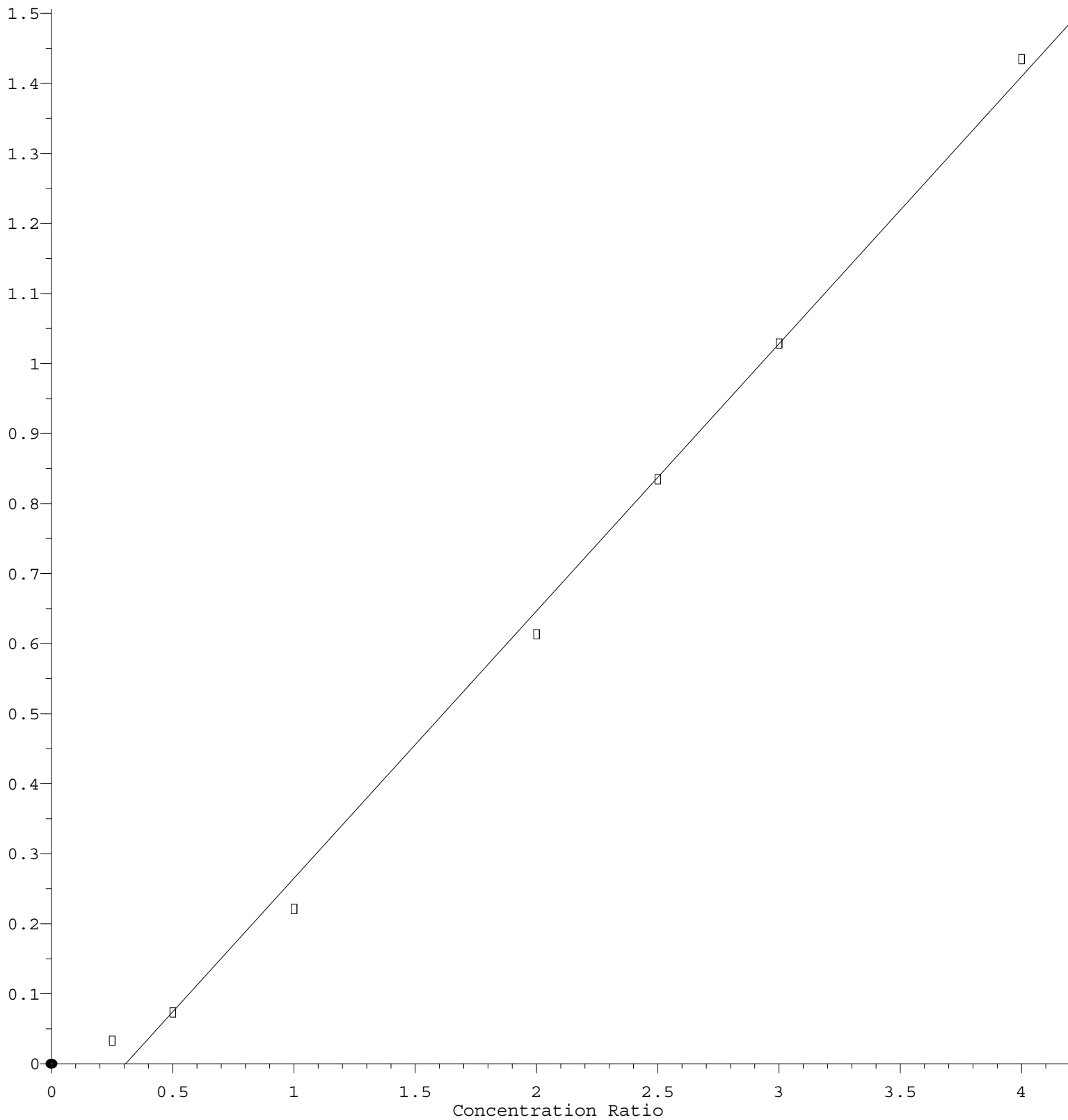
Coef of Det (r^2) = 0.999033 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011623.M

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.815\text{e-}001 * \text{Amt} - 1.166\text{e-}001$$

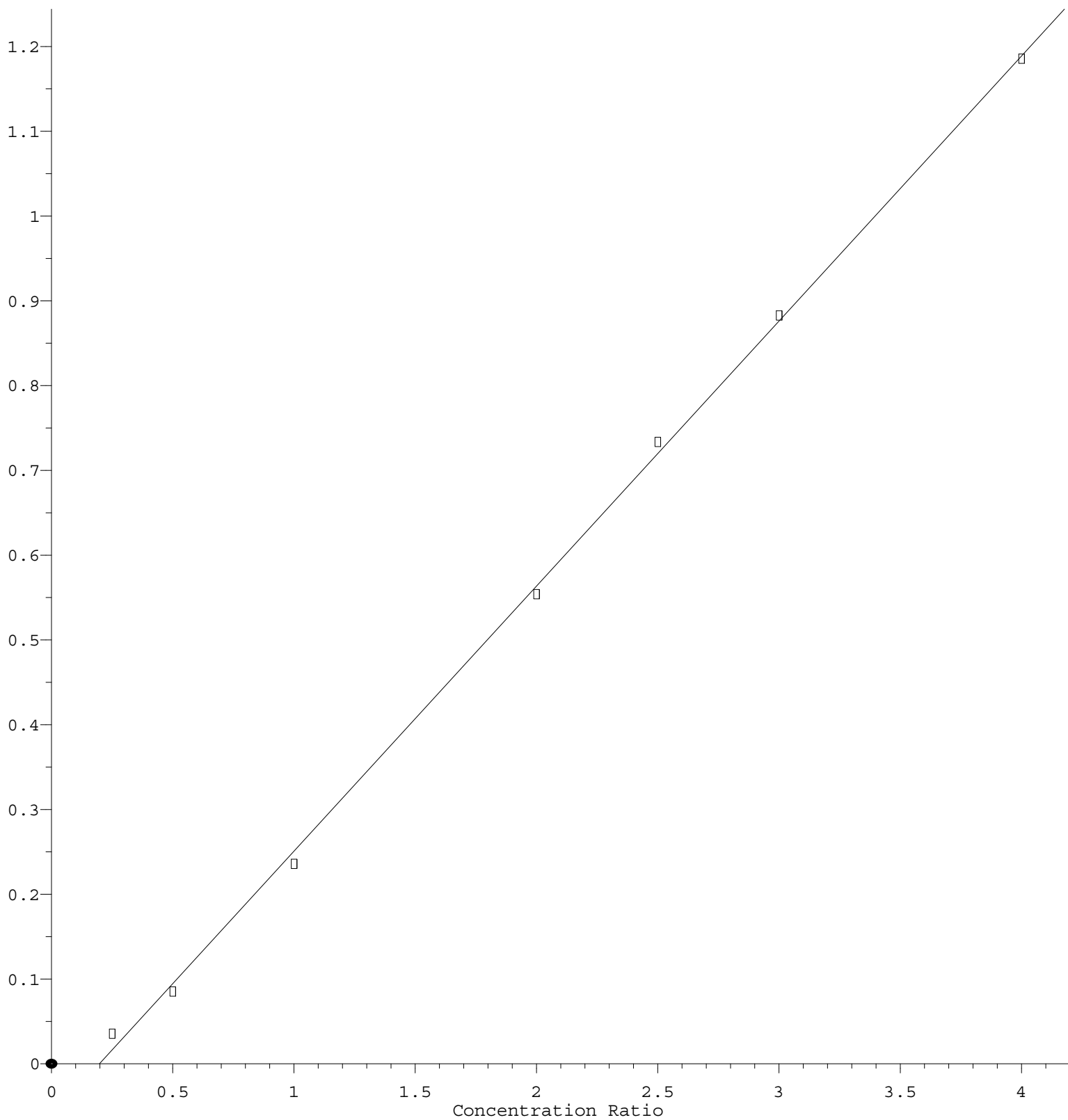
Coef of Det (r^2) = 0.996058 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011623.M

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4-Nitroaniline

Response Ratio



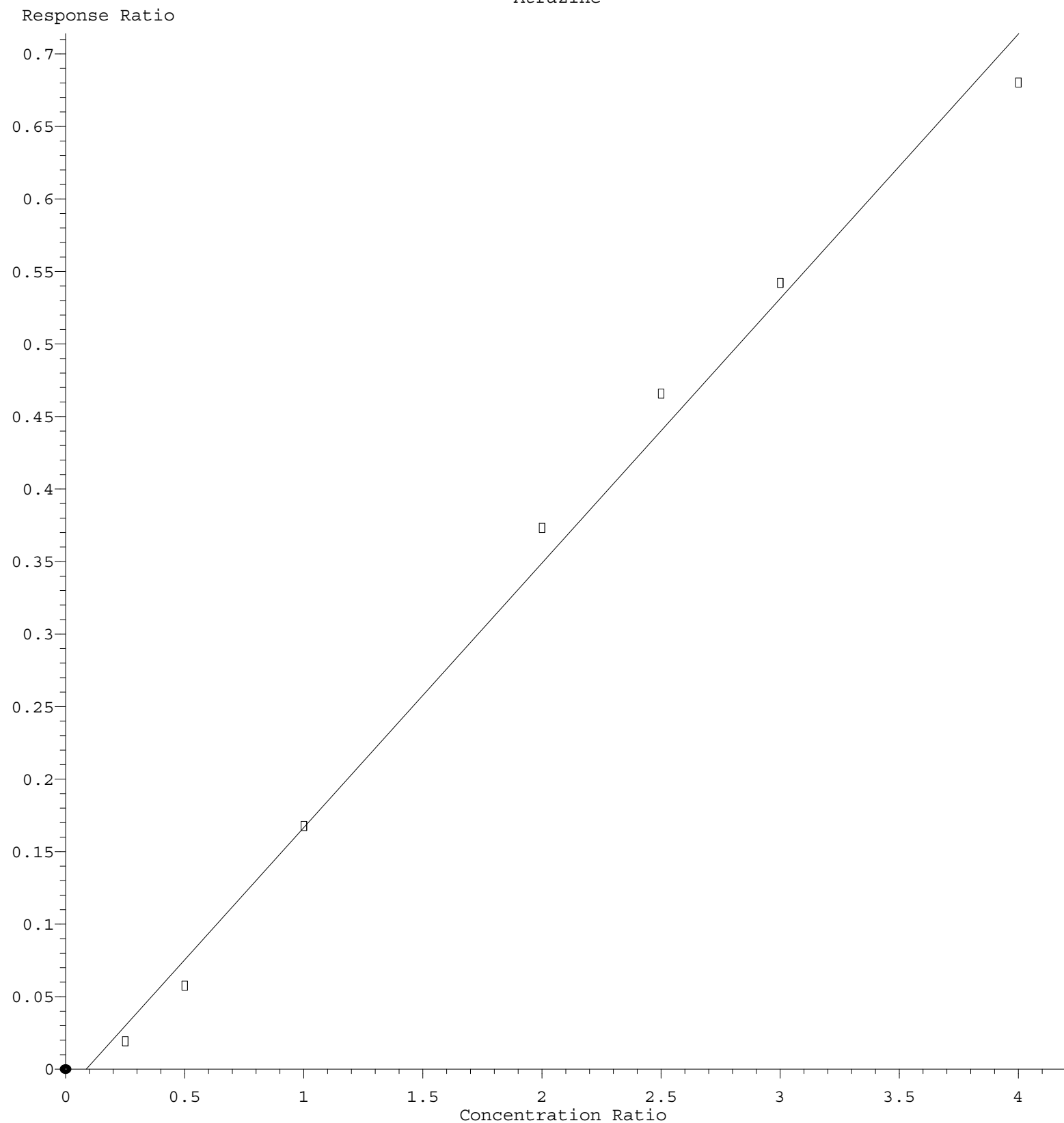
$$\text{Response} = 3.129\text{e-}001 * \text{Amt} - 6.197\text{e-}002$$

Coef of Det (r^2) = 0.999104 Curve Fit: Linear

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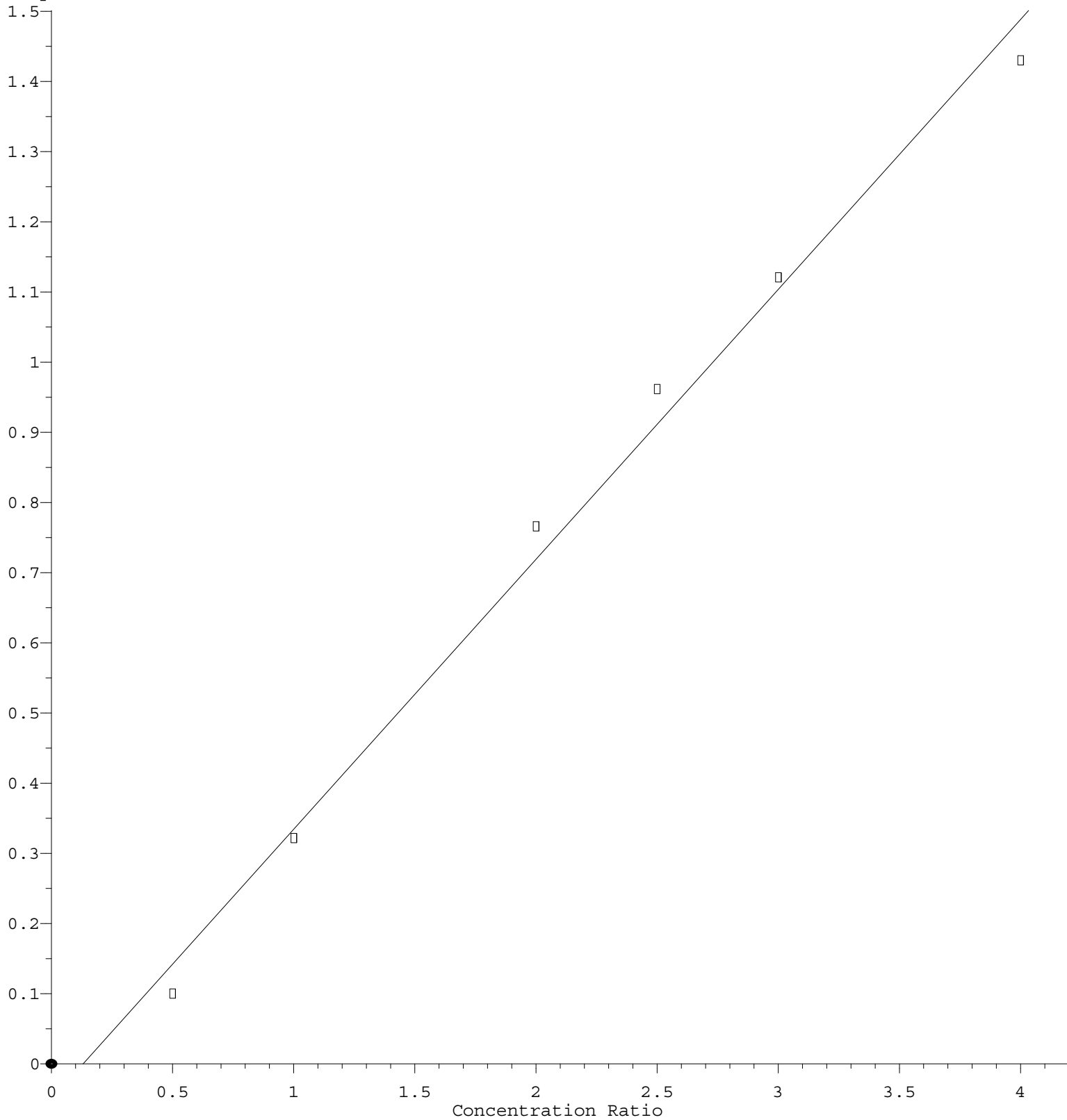
Atrazine



Response = 1.824e-001 * Amt - 1.596e-002
 Coef of Det (r^2) = 0.992454 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011623.M
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3,3'-Dichlorobenzidine

Response Ratio



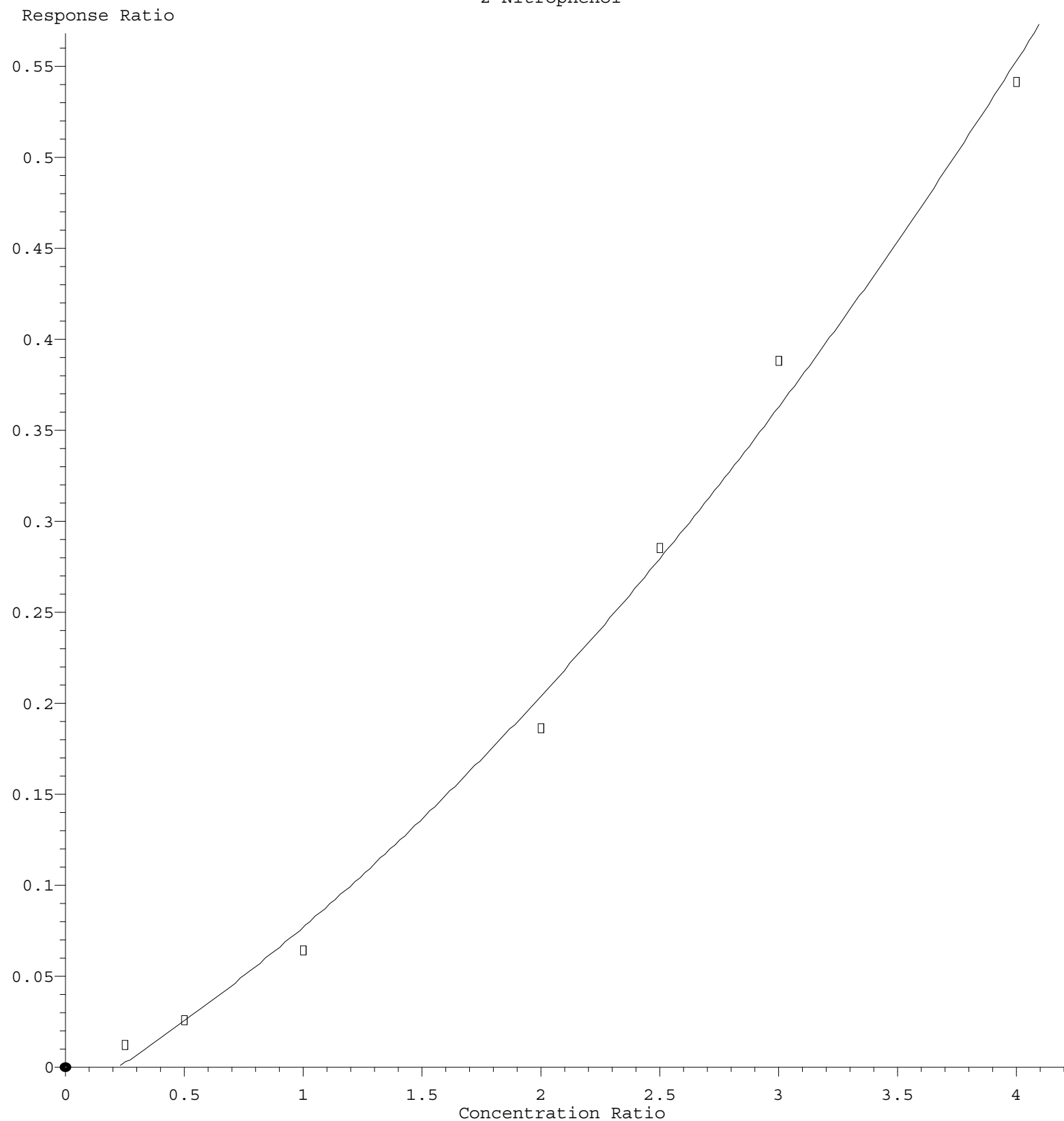
$$\text{Response} = 3.848\text{e-}001 * \text{Amt} - 5.028\text{e-}002$$

Coef of Det (r^2) = 0.991694 Curve Fit: Linear

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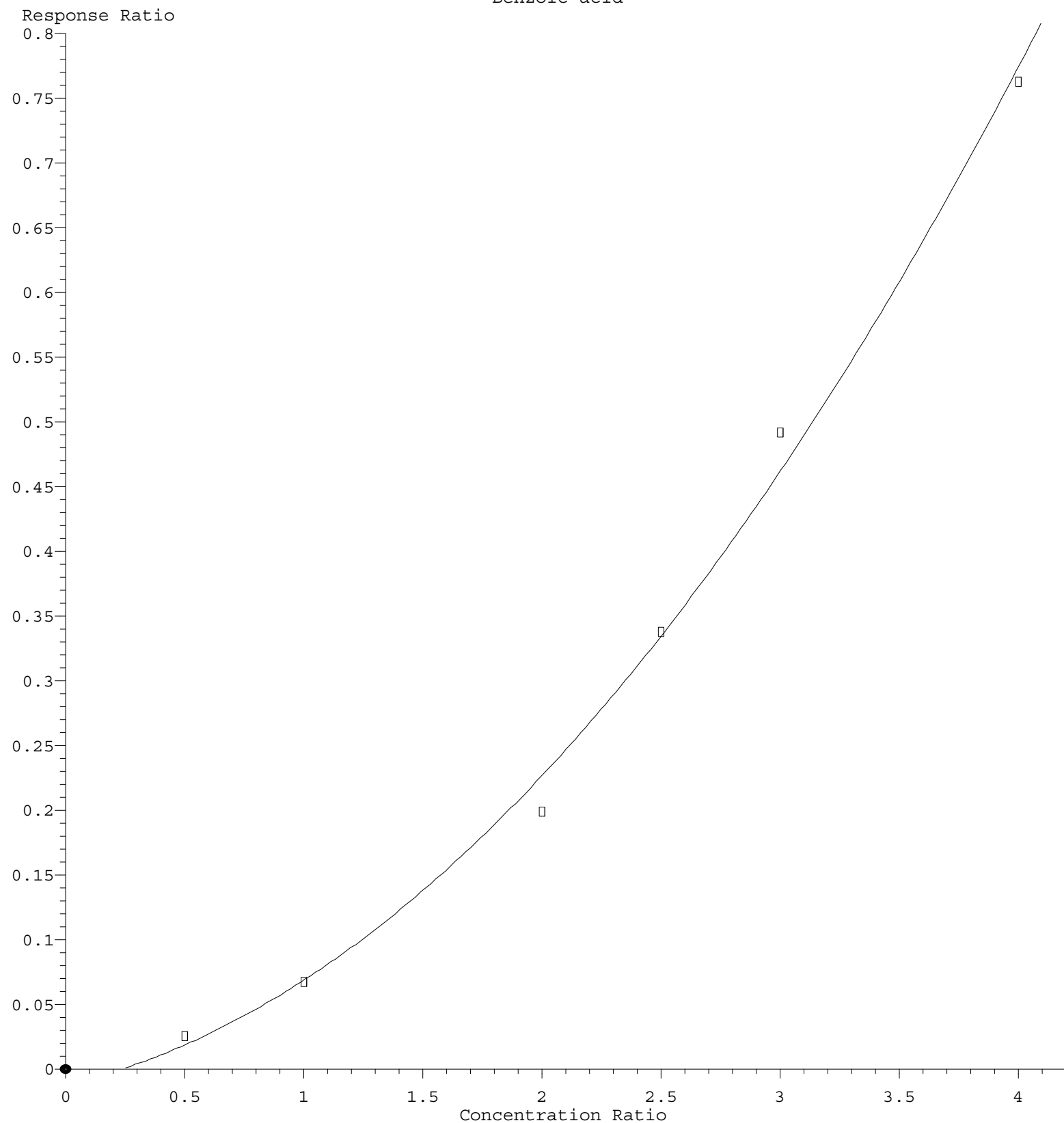
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2-Nitrophenol



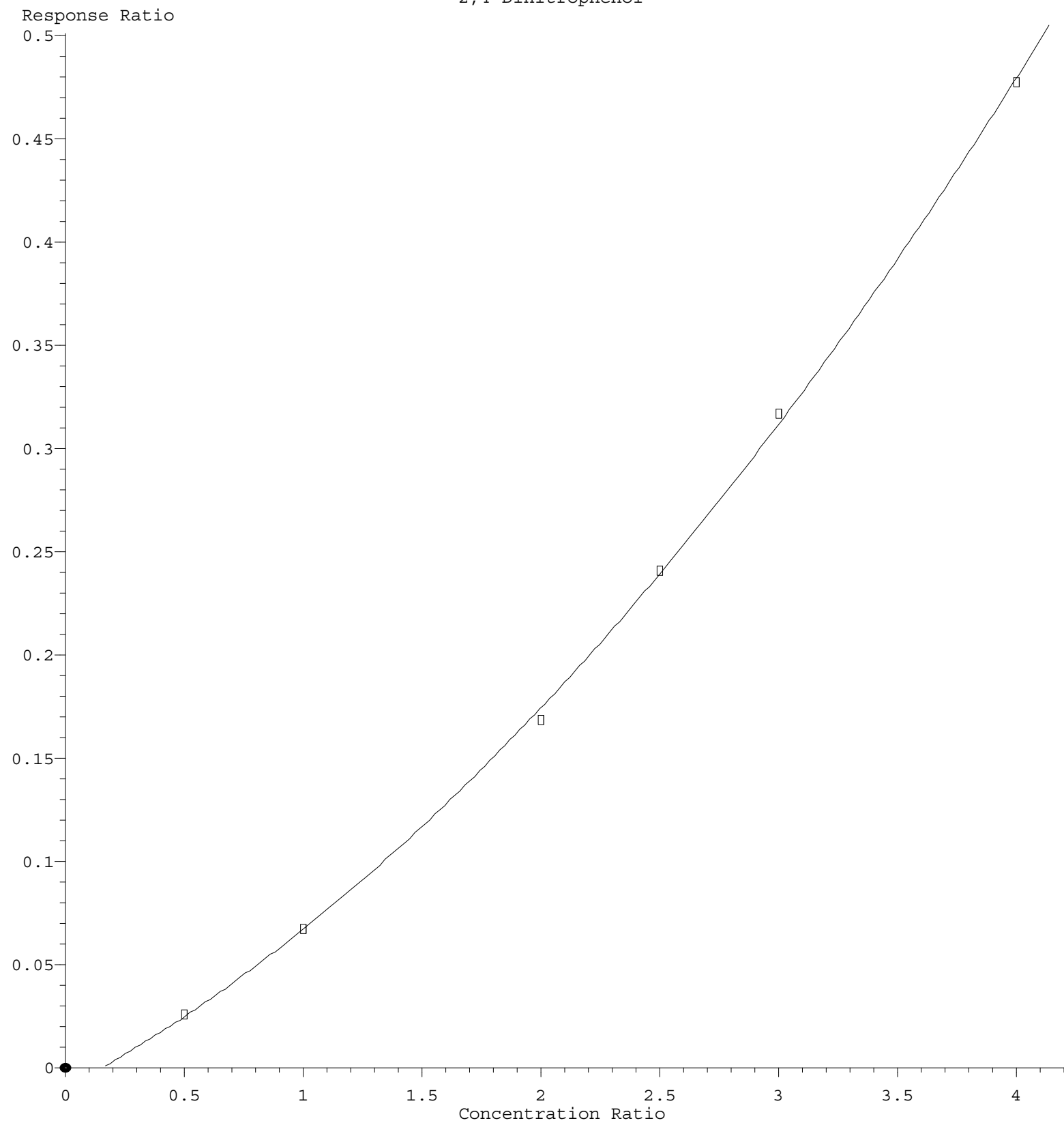
$R = 1.579e-002 A^2 + 7.969e-002 A - 1.855e-002$
 Coef of Det (r^2) = 0.994244 Curve Fit: Quadratic
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Benzoic acid



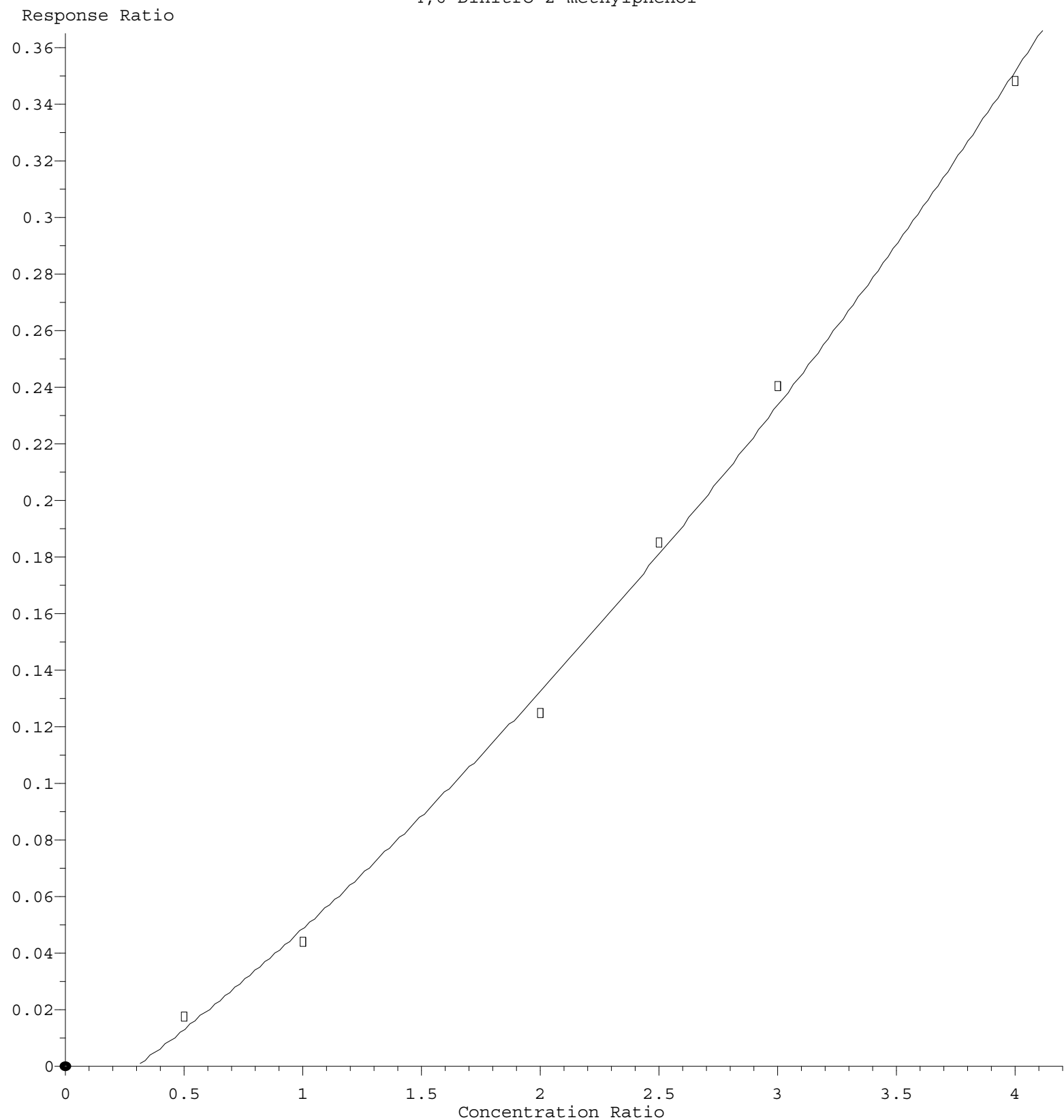
$R = 3.859e-002 A^2 + 4.221e-002 A - 1.217e-002$
 Coef of Det (r^2) = 0.995250 Curve Fit: Quadratic
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2,4-Dinitrophenol



$R = 1.511e-002 A^2 + 6.191e-002 A - 9.930e-003$
 Coef of Det (r^2) = 0.999523 Curve Fit: Quadratic
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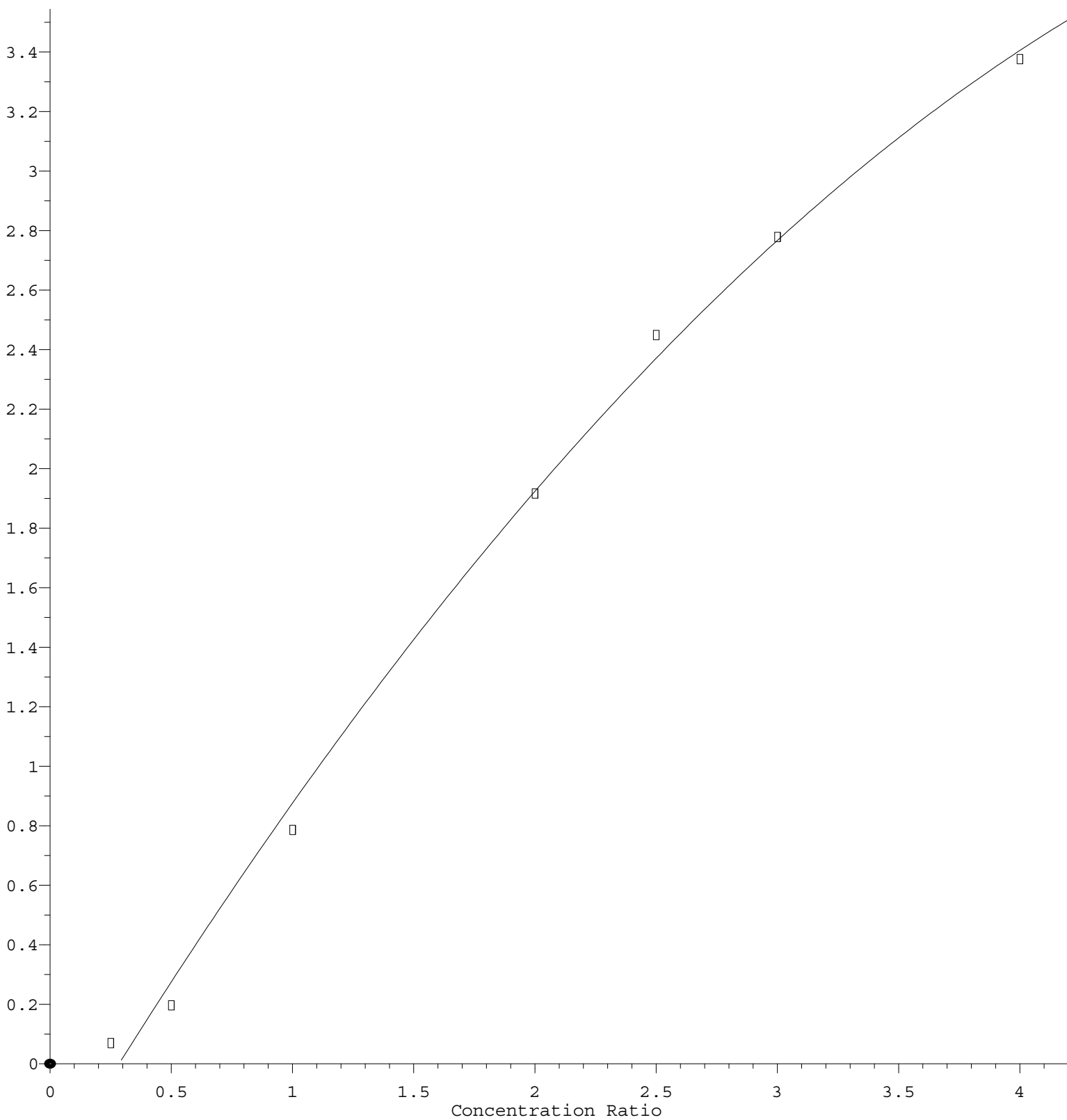
4,6-Dinitro-2-methylphenol



$R = 8.534e-003 A^2 + 5.833e-002 A - 1.829e-002$
 Coef of Det (r^2) = 0.997711 Curve Fit: Quadratic
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Di-n-butylphthalate

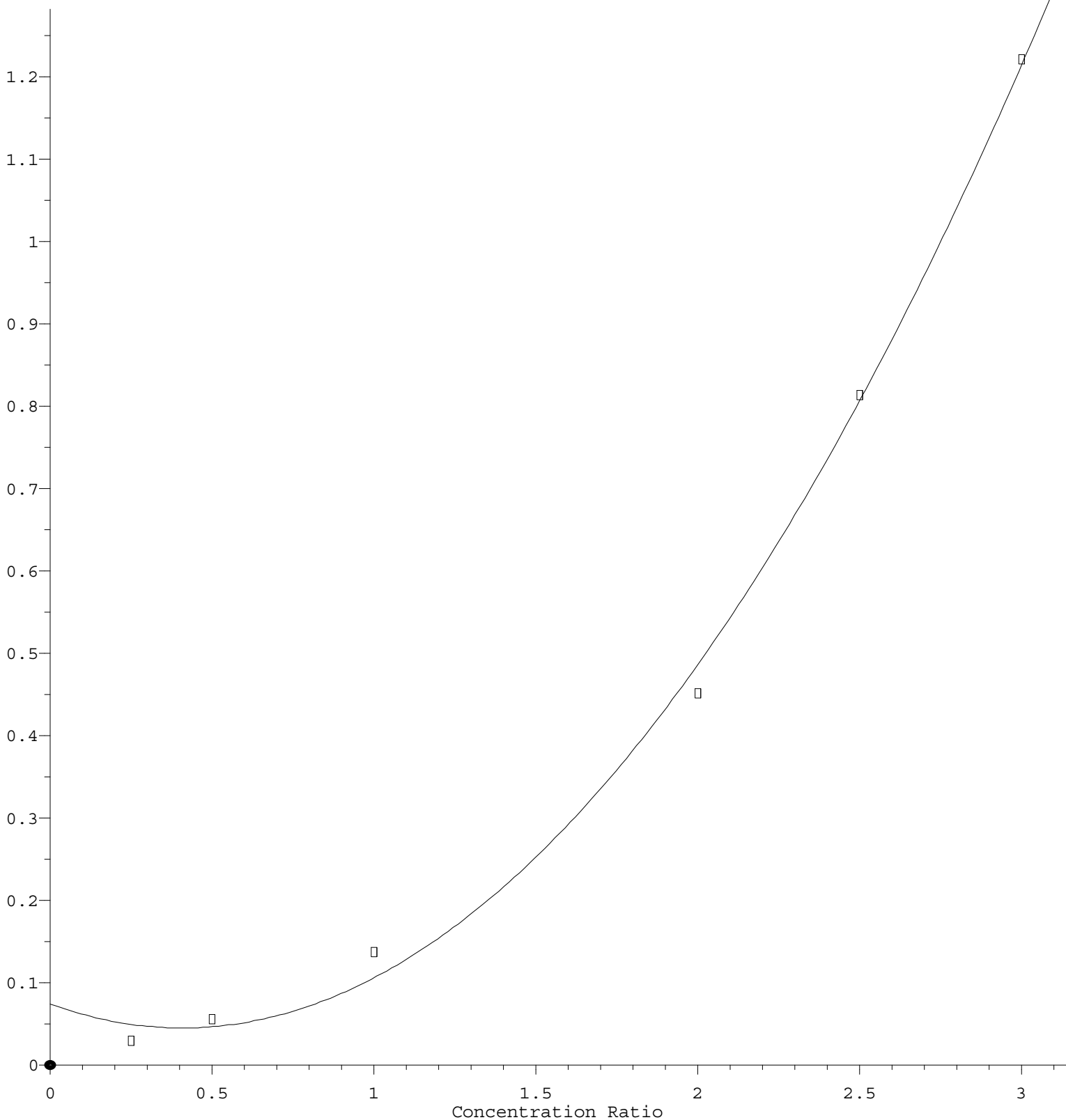
Response Ratio



$R = -1.024e-001 A^2 + 1.355e+000 A - 3.773e-001$
 Coef of Det (r^2) = 0.996663 Curve Fit: Quadratic
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Butylbenzylphthalate

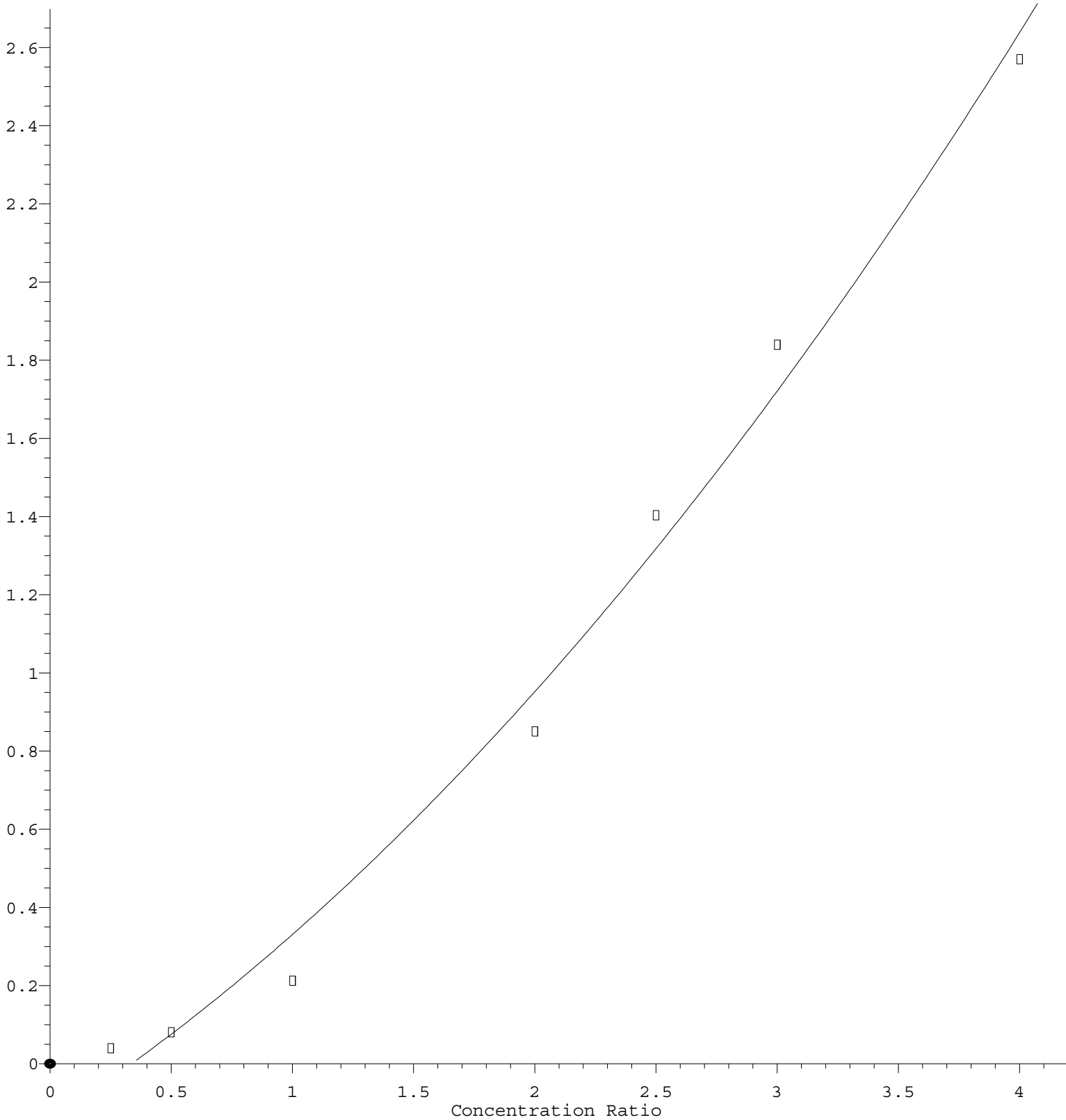
Response Ratio



$R = 1.741e-001 A^2 - 1.423e-001 A + 7.410e-002$
 Coef of Det (r^2) = 0.997622 Curve Fit: Quadratic
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Bis(2-ethylhexyl)phthalate

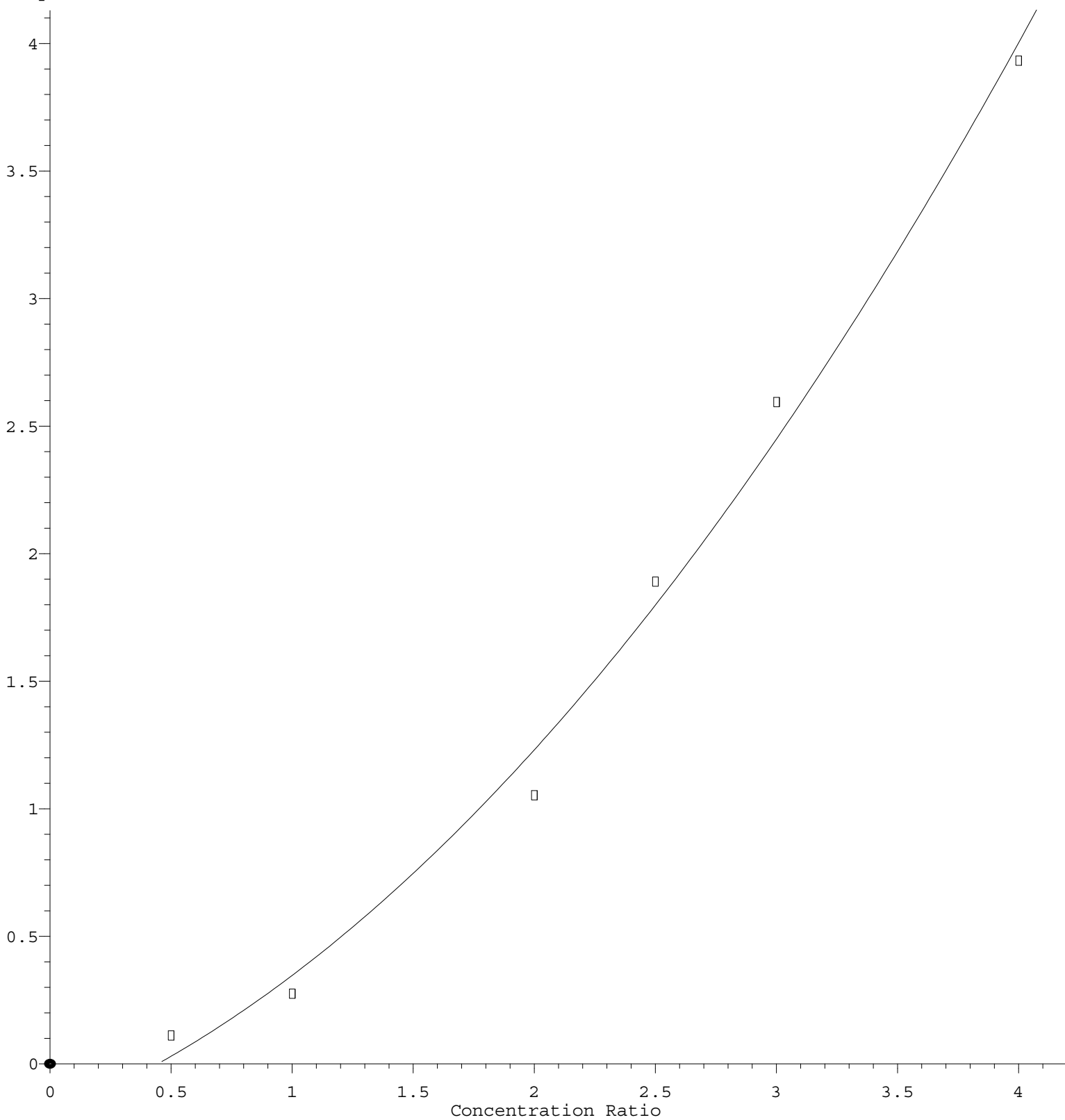
Response Ratio



$R = 7.401e-002 A^2 + 3.991e-001 A - 1.426e-001$
 Coef of Det (r^2) = 0.990181 Curve Fit: Quadratic
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Di-n-octyl phthalate

Response Ratio



$R = 1.672e-001 A^2 + 3.826e-001 A - 2.035e-001$
 Coef of Det (r^2) = 0.992797 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011623.M
 Calibration Table Last Updated: Tue Jan 17 01:48:42 2023