

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF022324.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Sat Feb 24 04:23:49 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF137366.D 5 =BF137367.D 10 =BF137368.D 20 =BF137369.D 40 =BF137370.D 50 =BF137371.D 60 =BF137372.D 80 =BF137373.D

Compound		2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.655	0.714	0.737	0.726	0.727	0.722	0.689	0.710	4.02	
3)	Pyridine	1.114	1.418	1.682	1.811	1.829	1.887	1.804	1.649	17.14	
4)	n-Nitrosodimet...	0.381	0.529	0.667	0.702	0.715	0.703	0.616	21.75		
5) S	2-Fluorophenol	1.103	1.261	1.425	1.380	1.348	1.320	1.237	1.296	8.27	
6)	Aniline	1.862	2.175	2.414	2.413	2.375	2.365	2.225	2.261	8.81	
7) S	Phenol-d6	1.886	1.994	2.073	1.950	1.885	1.846	1.712	1.907	6.04	
8)	2-Chlorophenol	1.365	1.446	1.511	1.414	1.404	1.346	1.245	1.390	6.03	
9)	Benzaldehyde	0.670	0.881	0.992	1.007	0.986	0.979	0.911	0.918	12.91	
10) C	Phenol	1.942	2.130	2.291	2.156	2.127	2.081	1.880	2.087	6.59	
11)	bis(2-Chloroet...	1.402	1.695	1.531	1.505	1.514	1.493	1.474	1.516	5.87	
12)	1,3-Dichlorobe...	1.528	1.547	1.597	1.511	1.473	1.455	1.340	1.493	5.50	
13) C	1,4-Dichlorobe...	1.555	1.620	1.675	1.552	1.499	1.493	1.365	1.537	6.48	
14)	1,2-Dichlorobe...	1.526	1.540	1.562	1.421	1.381	1.333	1.188	1.422	9.46	
15)	Benzyl Alcohol	0.930	1.043	1.268	1.240	1.209	1.192	1.074	1.137	10.86	
16)	2,2'-oxybis(1-...	2.585	2.600	2.695	2.573	2.482	2.448	2.260	2.520	5.58	
17)	2-Methylphenol	1.274	1.290	1.415	1.354	1.324	1.322	1.228	1.315	4.55	
18)	Hexachloroethane	0.540	0.557	0.571	0.532	0.522	0.511	0.475	0.530	5.95	
19) P	n-Nitroso-di-n...	1.123	1.155	1.248	1.261	1.188	1.177	1.153	1.093	1.175	4.90
20)	3+4-Methylphenols	1.396	1.634	1.701	1.570	1.482	1.435	1.275	1.499	9.80	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.481	0.528	0.540	0.498	0.466	0.461	0.421	0.485	8.41	
23) S	Nitrobenzene-d5	0.341	0.394	0.427	0.421	0.410	0.417	0.394	0.401	7.26	
24)	Nitrobenzene	0.333	0.384	0.442	0.435	0.425	0.424	0.406	0.407	9.32	
25)	Isophorone	0.805	0.844	0.871	0.833	0.816	0.827	0.803	0.828	2.89	
26) C	2-Nitrophenol	0.103	0.106	0.145	0.151	0.153	0.157	0.161	0.140	17.52	
27)	2,4-Dimethylph...	0.276	0.302	0.329	0.317	0.308	0.311	0.290	0.305	5.77	
28)	bis(2-Chloroet...	0.442	0.470	0.517	0.495	0.478	0.485	0.455	0.478	5.21	
29) C	2,4-Dichloroph...	0.250	0.281	0.305	0.299	0.291	0.296	0.276	0.286	6.49	
30)	1,2,4-Trichlor...	0.302	0.321	0.331	0.313	0.298	0.301	0.280	0.307	5.46	
31)	Naphthalene	1.129	1.154	1.188	1.081	1.025	1.010	0.927	1.073	8.57	
32)	Benzoic acid	0.109	0.136	0.172	0.182	0.193	0.203	0.166	21.79		
33)	4-Chloroaniline	0.347	0.401	0.441	0.438	0.434	0.406	0.390	0.408	8.19	
34) C	Hexachlorobuta...	0.185	0.188	0.196	0.182	0.177	0.178	0.168	0.182	4.88	
35)	Caprolactam	0.070	0.082	0.091	0.092	0.093	0.095	0.094	0.088	10.56	
36) C	4-Chloro-3-met...	0.294	0.324	0.347	0.332	0.329	0.329	0.311	0.324	5.25	
37)	2-Methylnaphth...	0.719	0.751	0.761	0.698	0.662	0.657	0.593	0.692	8.53	
38)	1-Methylnaphth...	0.702	0.721	0.702	0.653	0.622	0.620	0.557	0.654	9.00	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.553	0.558	0.595	0.568	0.540	0.541	0.501	0.551	5.28	
41) P	Hexachlorocycl...		0.186	0.240	0.263	0.267	0.275	0.269	0.250	13.47	
42) S	2,4,6-Tribromo...	0.159	0.170	0.181	0.178	0.174	0.182	0.176	0.174	4.38	
43) C	2,4,6-Trichlor...	0.328	0.348	0.381	0.370	0.362	0.365	0.346	0.357	4.98	
44)	2,4,5-Trichlor...	0.387	0.378	0.429	0.433	0.419	0.420	0.401	0.410	5.16	
45) S	2-Fluorobiphenyl	1.463	1.457	1.447	1.268	1.178	1.147	1.032	1.285	13.57	
46)	1,1'-Biphenyl	1.555	1.552	1.602	1.475	1.399	1.371	1.243	1.457	8.71	
47)	2-Chloronaphth...	1.118	1.155	1.195	1.120	1.066	1.059	0.988	1.100	6.23	
48)	2-Nitroaniline	0.165	0.203	0.269	0.318	0.333	0.347	0.348	0.283	26.03	
49)	Acenaphthylene	1.893	1.934	1.965	1.813	1.726	1.676	1.505	1.787	9.15	
50)	Dimethylphthalate	1.394	1.453	1.475	1.393	1.357	1.338	1.265	1.382	5.14	
51)	2,6-Dinitrotol...	0.189	0.233	0.273	0.280	0.277	0.282	0.267	0.257	13.40	
52) C	Acenaphthene	1.131	1.145	1.185	1.085	1.013	0.998	0.912	1.067	9.07	
53)	3-Nitroaniline	0.187	0.216	0.268	0.291	0.296	0.304	0.296	0.265	17.20	
54) P	2,4-Dinitrophenol		0.051	0.082	0.109	0.116	0.123	0.129	0.102	29.35	
55)	Dibenzofuran	1.745	1.808	1.840	1.657	1.581	1.532	1.379	1.649	9.98	
56) P	4-Nitrophenol		0.117	0.171	0.204	0.212	0.215	0.216	0.189	20.76	
57)	2,4-Dinitrotol...	0.210	0.268	0.313	0.334	0.336	0.334	0.318	0.302	15.50	
58)	Fluorene	1.403	1.416	1.412	1.238	1.173	1.143	1.032	1.259	12.21	
59)	2,3,4,6-Tetrac...	0.338	0.342	0.362	0.345	0.335	0.335	0.318	0.339	3.89	
60)	Diethylphthalate	1.293	1.356	1.389	1.317	1.267	1.246	1.164	1.290	5.75	
61)	4-Chlorophenyl...	0.660	0.702	0.687	0.611	0.574	0.577	0.525	0.619	10.60	
62)	4-Nitroaniline	0.162	0.216	0.268	0.268	0.272	0.277	0.271	0.248	17.37	
63)	Azobenzene	1.580	1.644	1.684	1.587	1.503	1.459	1.349	1.544	7.46	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.064	0.083	0.093	0.098	0.102	0.102	0.090	16.06	
66) c	n-Nitrosodiphe...	0.660	0.683	0.700	0.653	0.631	0.634	0.585	0.650	5.82	
67)	4-Bromophenyl-...	0.201	0.217	0.225	0.221	0.216	0.221	0.204	0.215	4.29	
68)	Hexachlorobenzene	0.228	0.222	0.232	0.225	0.217	0.224	0.209	0.222	3.38	
69)	Atrazine	0.147	0.167	0.186	0.182	0.182	0.185	0.177	0.175	8.05	
70) C	Pentachlorophenol	0.104	0.129	0.150	0.153	0.151	0.153	0.148	0.141	13.05	
71)	Phenanthrene	1.174	1.209	1.214	1.090	1.048	1.039	0.952	1.103	8.96	
72)	Anthracene	1.162	1.231	1.257	1.151	1.106	1.074	0.978	1.137	8.37	
73)	Carbazole	0.977	1.027	1.064	0.992	0.933	0.951	0.857	0.972	6.93	
74)	Di-n-butylphth...	0.770	0.908	1.025	1.033	1.041	1.050	0.978	0.972	10.48	
75) C	Fluoranthene	1.146	1.190	1.191	1.070	1.012	1.009	0.922	1.077	9.54	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine		0.159	0.239	0.331	0.349	0.346	0.367	0.298	27.44	
78)	Pyrene	1.723	1.774	1.919	1.991	1.982	1.984	1.865	1.891	5.72	
79) S	Terphenyl-d14	1.358	1.392	1.450	1.466	1.468	1.466	1.409	1.430	3.06	
80)	Butylbenzylpht...	0.101	0.130	0.182	0.251	0.280	0.315	0.344	0.229	40.80	
81)	Benzo(a)anthra...	1.341	1.392	1.444	1.399	1.383	1.415	1.340	1.388	2.73	
82)	3,3'-Dichlorob...		0.206	0.264	0.311	0.318	0.339	0.339	0.296	17.55	
83)	Chrysene	1.424	1.426	1.475	1.427	1.422	1.393	1.357	1.418	2.55	
84)	Bis(2-ethylhex...	0.135	0.181	0.251	0.322	0.367	0.407	0.428	0.299	37.82	
85) c	Di-n-octyl pht...		0.230	0.351	0.516	0.631	0.746	0.847	0.554	42.46#	

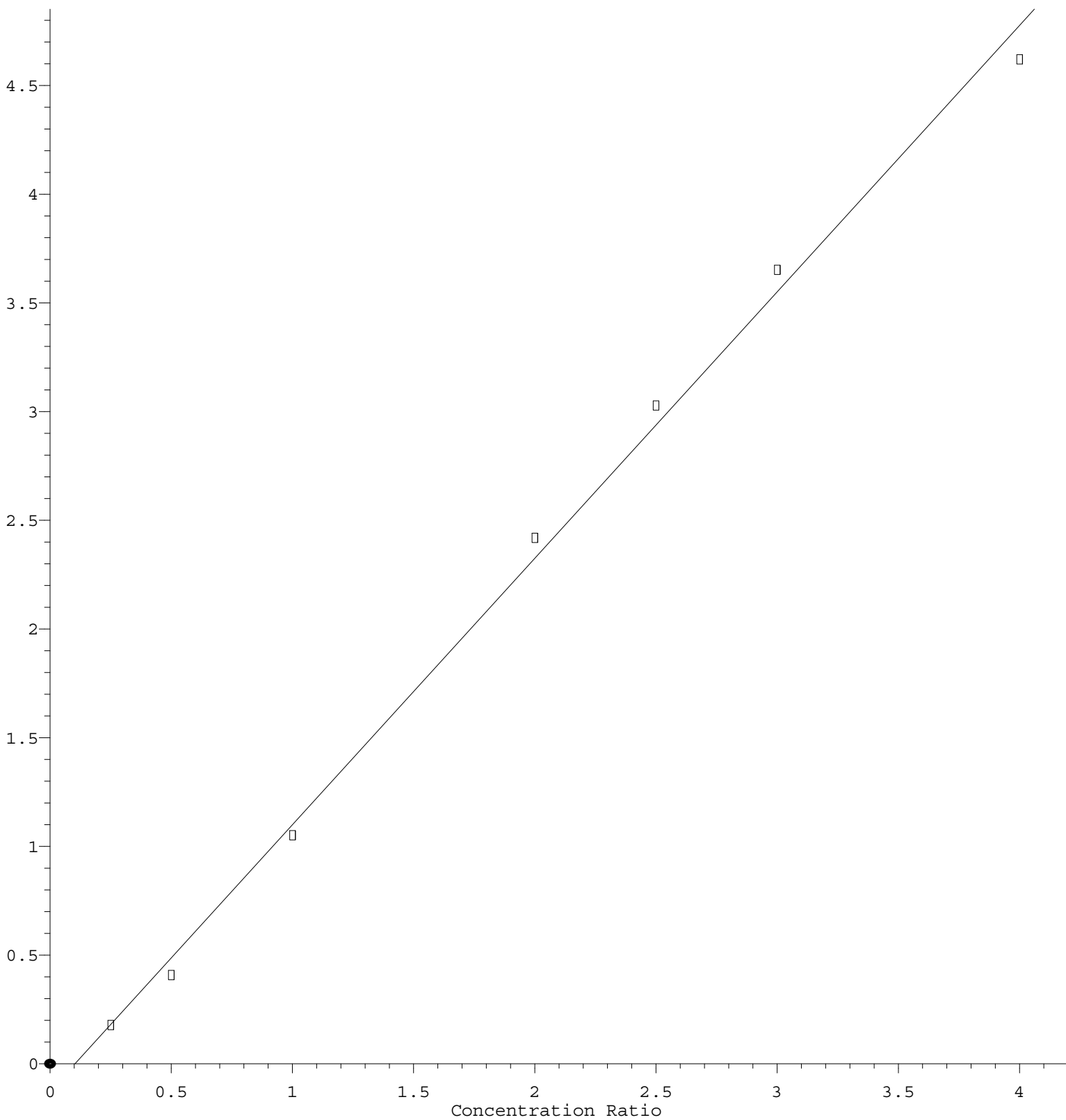
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		-----ISTD-----	
86) I	Perylene-d12		
87)	Indeno(1,2,3-c...	0.855 0.989 1.260 1.429 1.435 1.430 1.362 1.251	18.88
88)	Benzo(b)fluora...	1.150 1.253 1.318 1.265 1.254 1.214 1.135 1.227	5.32
89)	Benzo(k)fluora...	1.270 1.347 1.446 1.282 1.219 1.237 1.201 1.286	6.64
90) C	Benzo(a)pyrene	1.024 1.101 1.245 1.219 1.199 1.205 1.152 1.164	6.66
91)	Dibenzo(a,h)an...	0.706 0.799 1.071 1.185 1.171 1.179 1.105 1.031	19.08
92)	Benzo(g,h,i)pe...	0.712 0.816 1.051 1.209 1.211 1.217 1.155 1.053	19.73

(#) = Out of Range

Benzo(g,h,i)perylene

Response Ratio



$$\text{Response} = 1.226 \times 10^0 \times \text{Amt} - 1.268 \times 10^{-1}$$

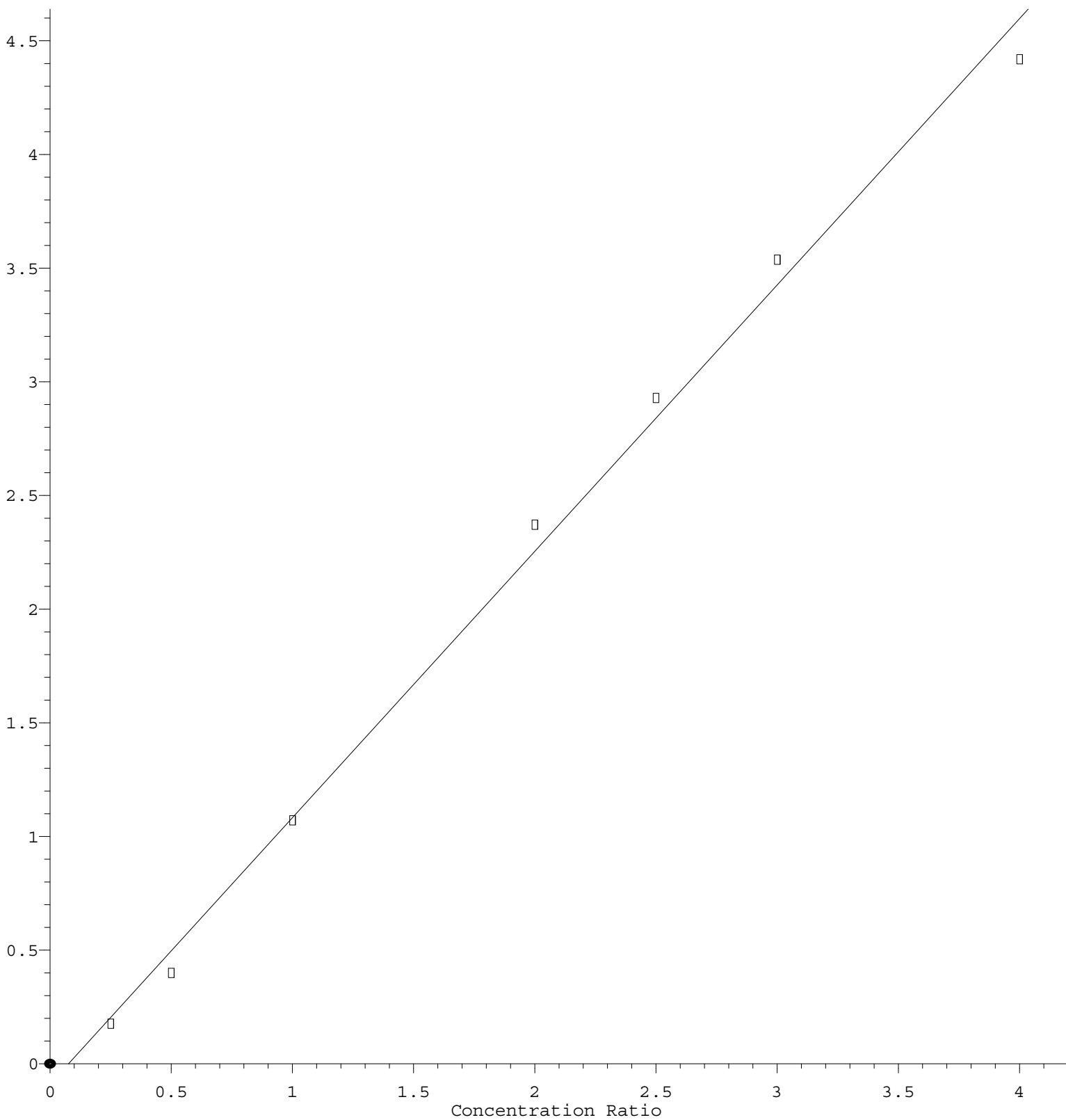
Coef of Det (r^2) = 0.996535 Curve Fit: Linear

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Dibenzo (a,h) anthracene

Response Ratio



$$\text{Response} = 1.172\text{e}+000 * \text{Amt} - 8.950\text{e}-002$$

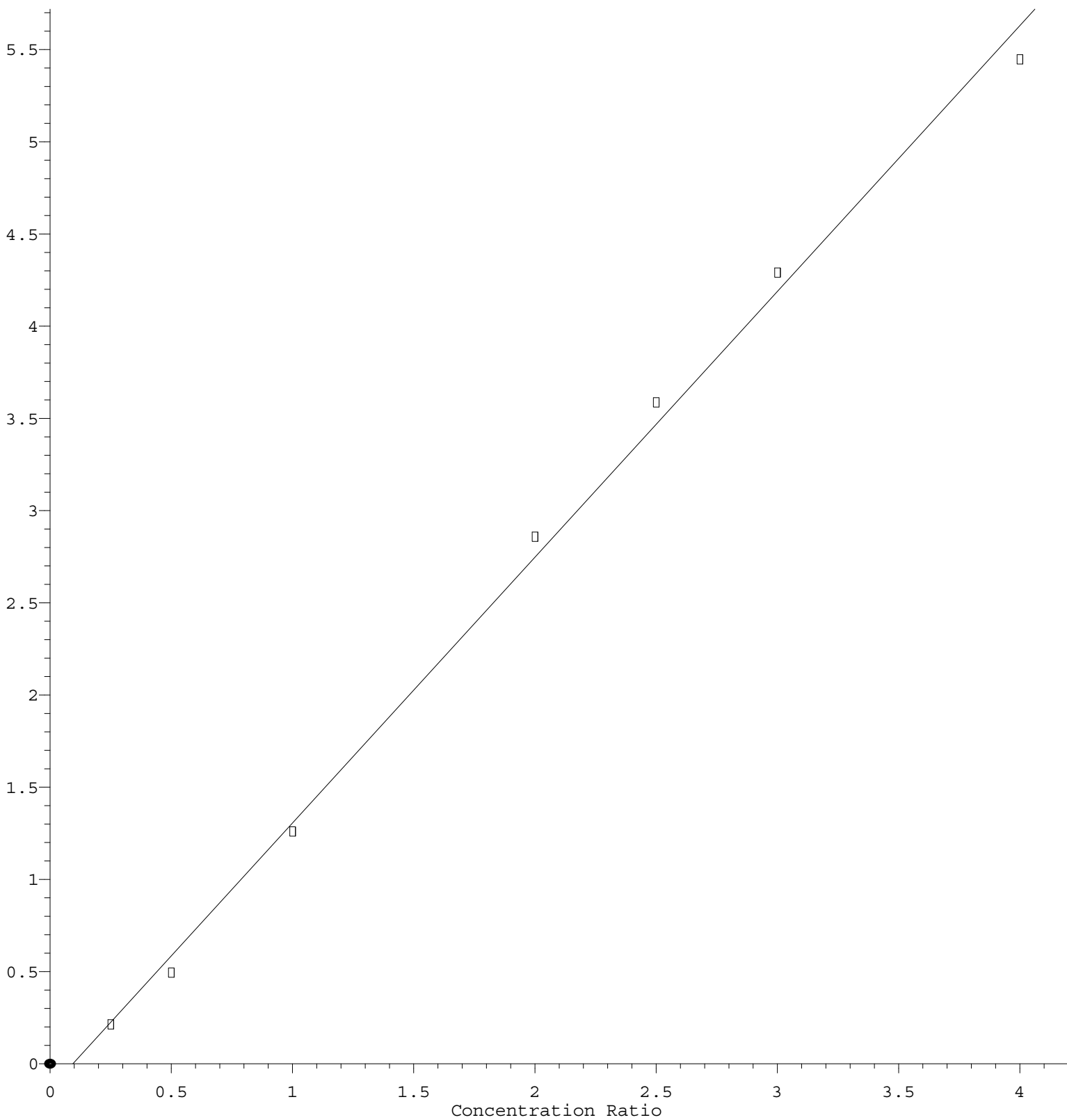
Coef of Det (r^2) = 0.995195 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022324.M

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Indeno (1,2,3-cd) pyrene

Response Ratio



$$\text{Response} = 1.441\text{e}+000 * \text{Amt} - 1.348\text{e}-001$$

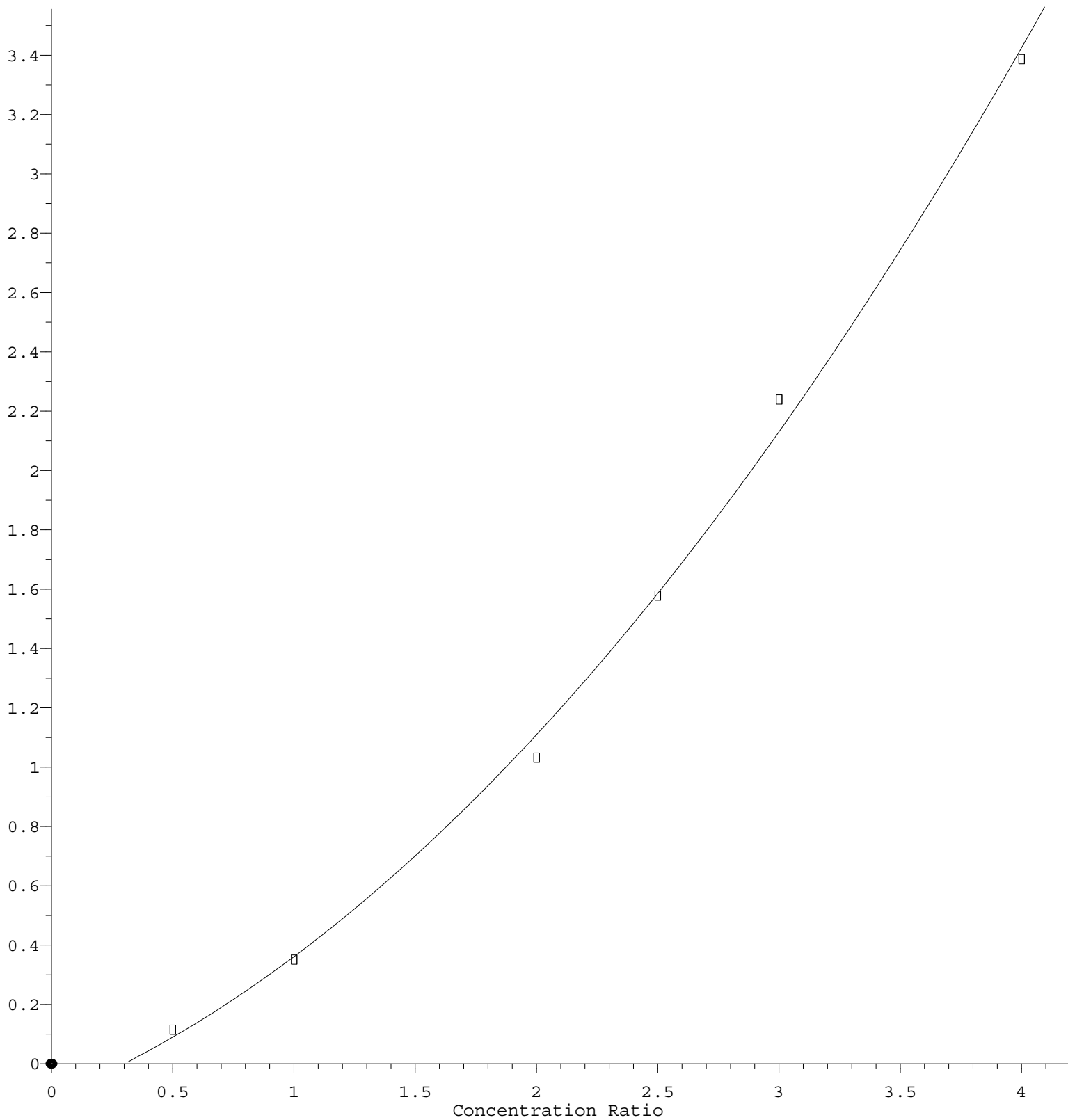
Coef of Det (r^2) = 0.996626 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022324.M

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Di-n-octyl phthalate

Response Ratio



$$R = 1.366e-001 A^2 + 3.383e-001 A - 1.137e-001$$

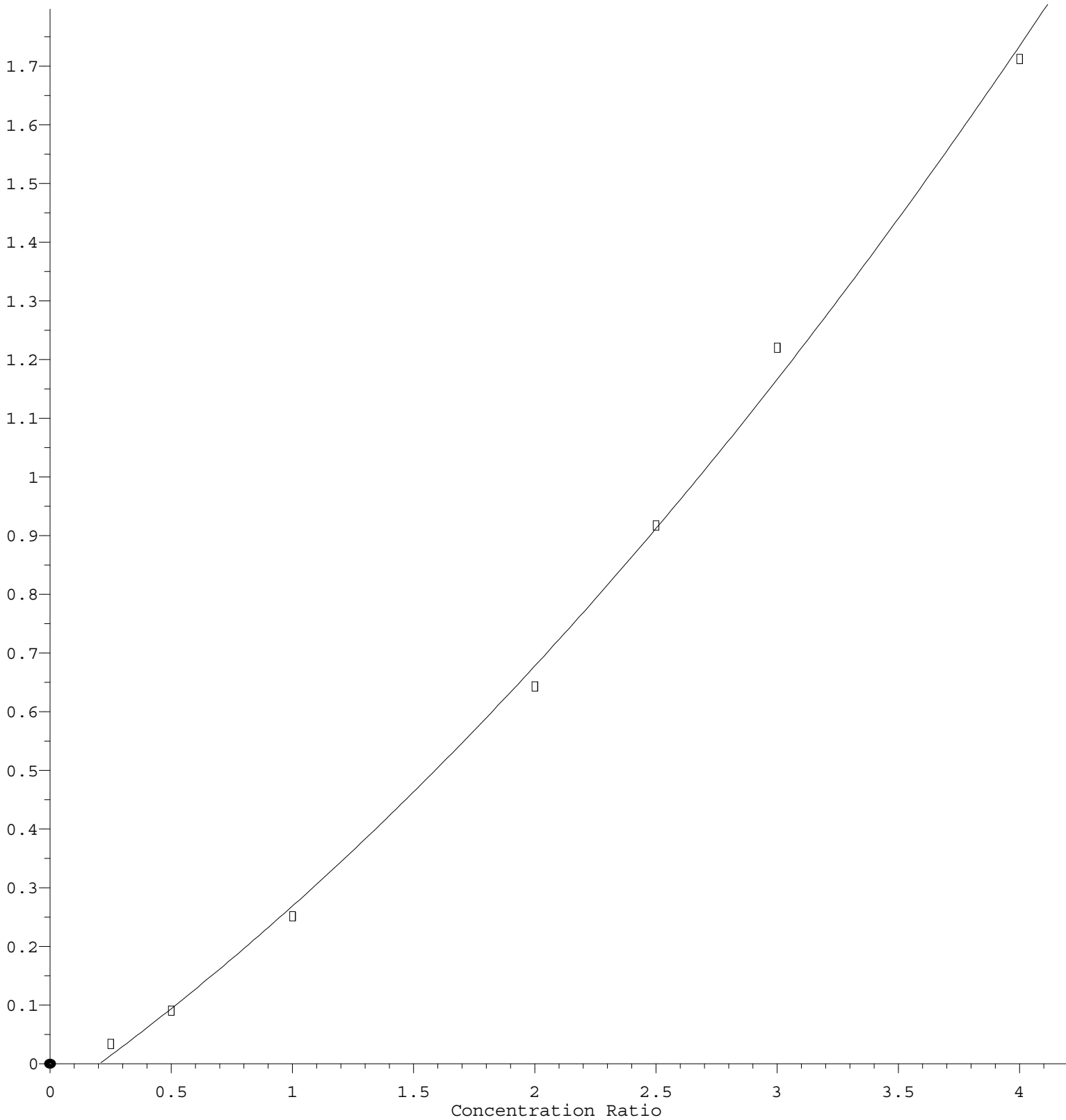
Coef of Det (r^2) = 0.997348 Curve Fit: Quadratic

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Bis(2-ethylhexyl)phthalate

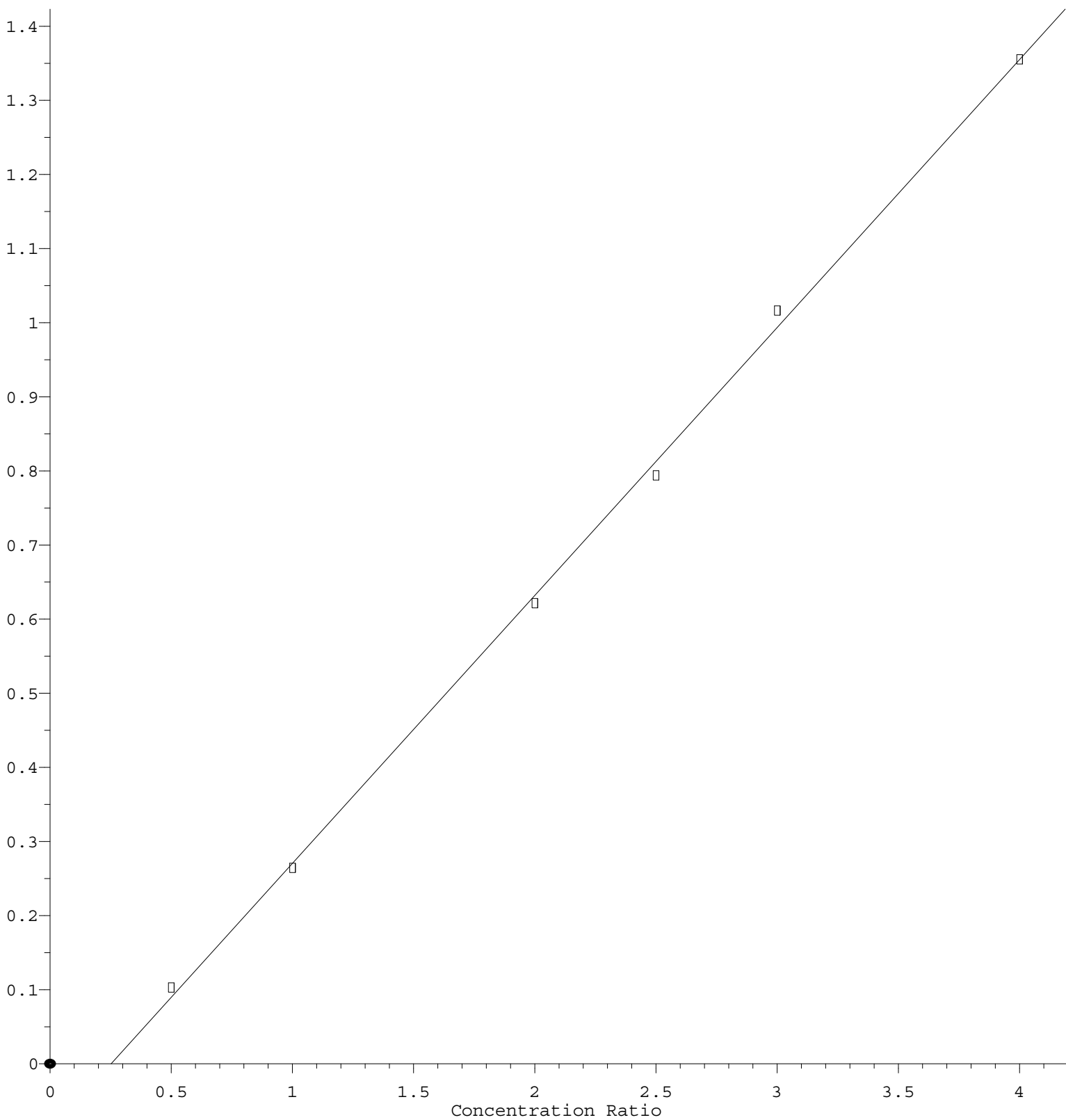
Response Ratio



$R = 3.975e-002 A^2 + 2.898e-001 A - 6.084e-002$
 Coef of Det (r^2) = 0.997749 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022324.M
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3,3'-Dichlorobenzidine

Response Ratio



$$\text{Response} = 3.615\text{e-}001 * \text{Amt} - 9.098\text{e-}002$$

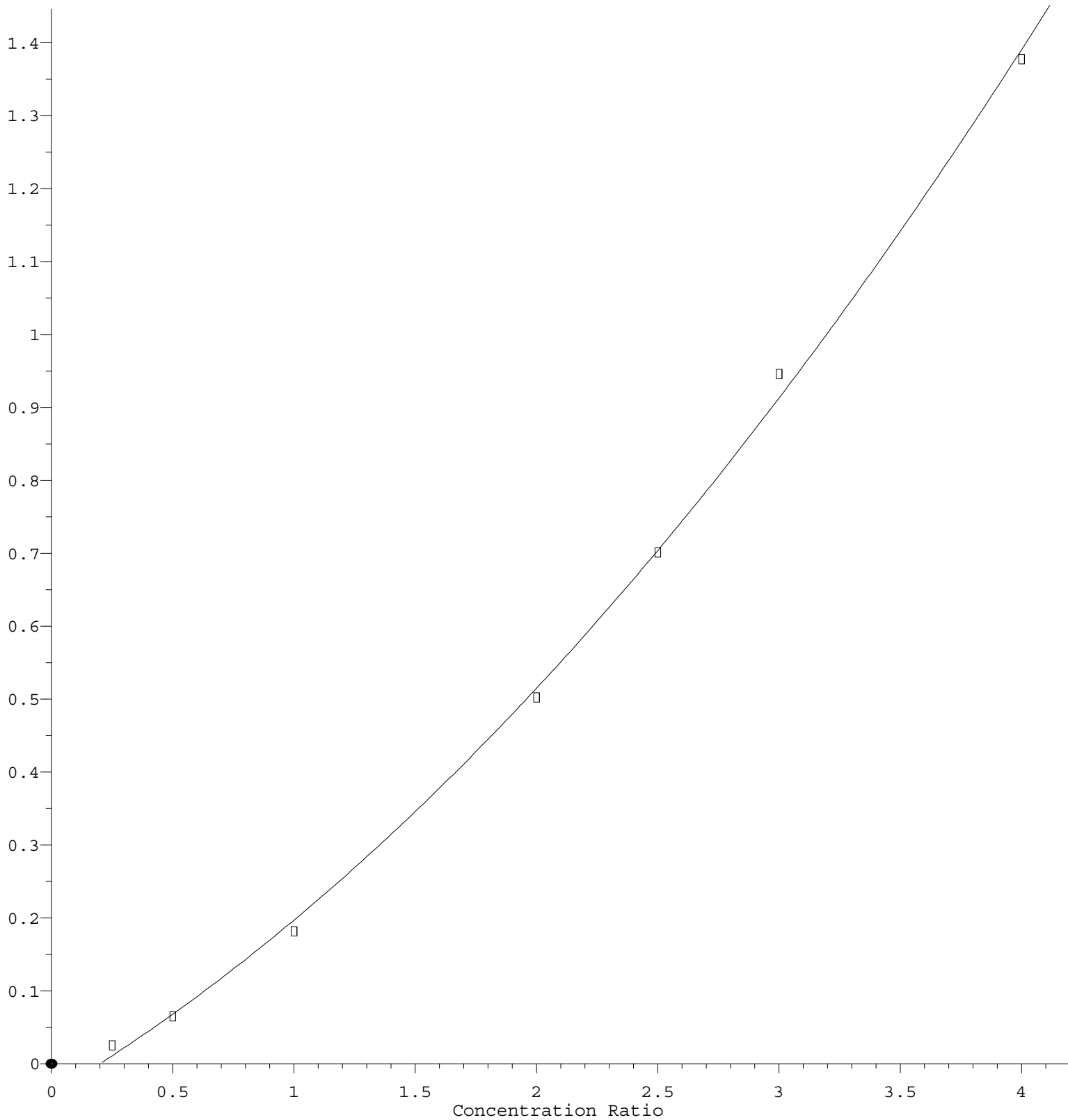
Coef of Det (r^2) = 0.998898 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022324.M

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Butylbenzylphthalate

Response Ratio



$$R = 3.999\text{e-}002 A^2 + 1.979\text{e-}001 A - 4.098\text{e-}002$$

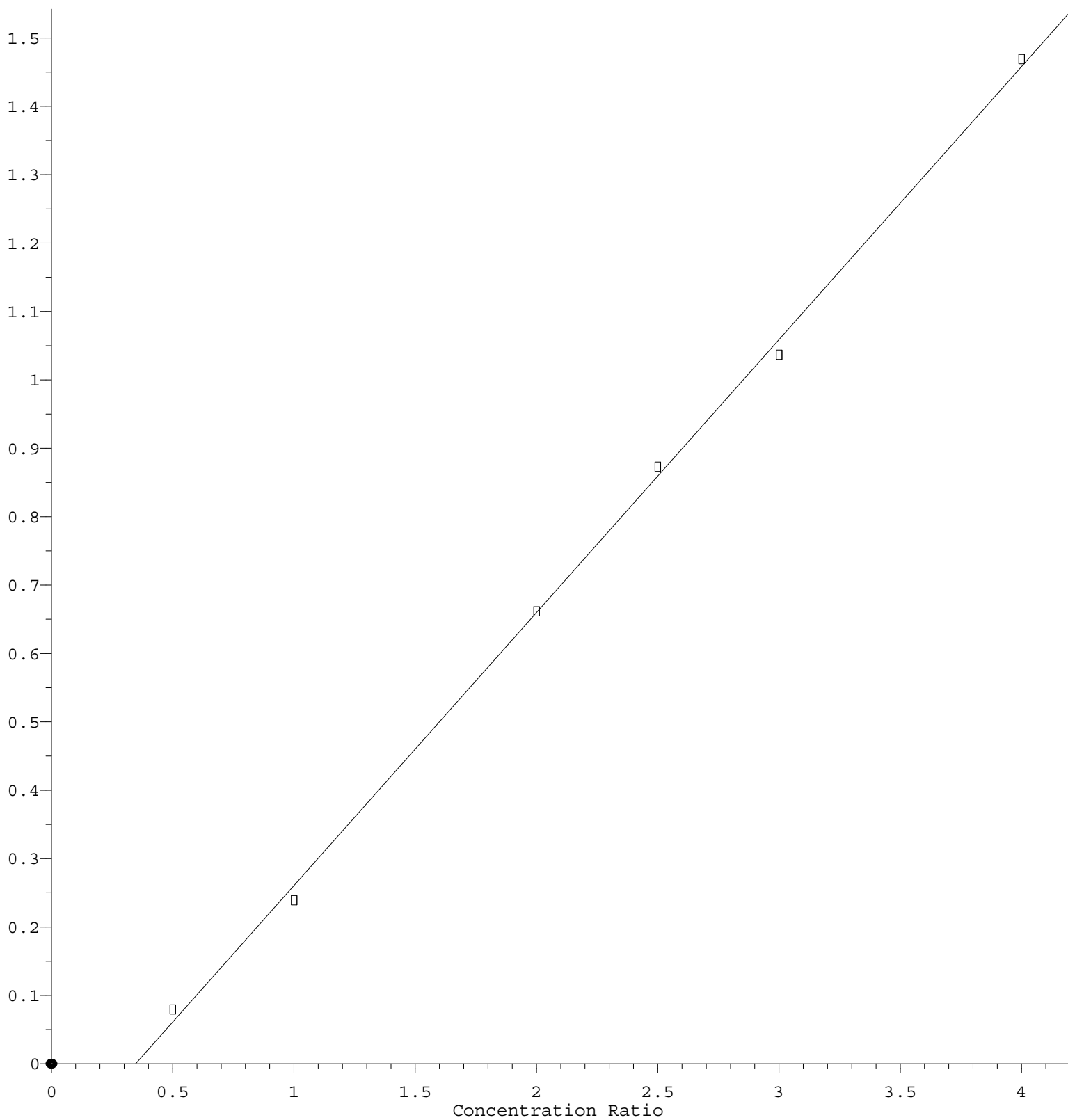
Coef of Det (r^2) = 0.998759 Curve Fit: Quadratic

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Benzidine

Response Ratio



$$\text{Response} = 3.992\text{e-}001 * \text{Amt} - 1.384\text{e-}001$$

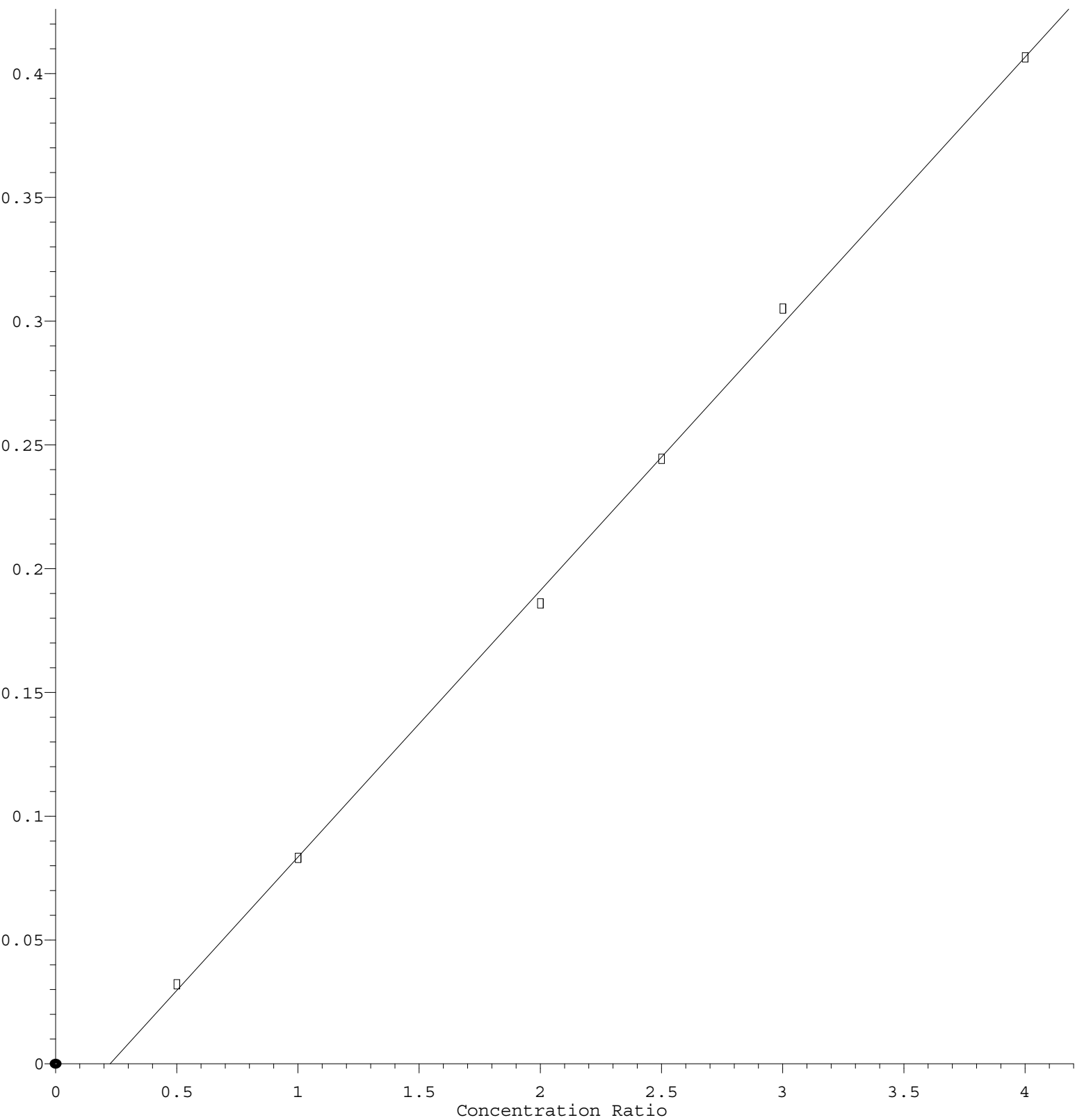
Coef of Det (r^2) = 0.998794 Curve Fit: Linear

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4,6-Dinitro-2-methylphenol

Response Ratio



$$\text{Response} = 1.079\text{e-}001 * \text{Amt} - 2.432\text{e-}002$$

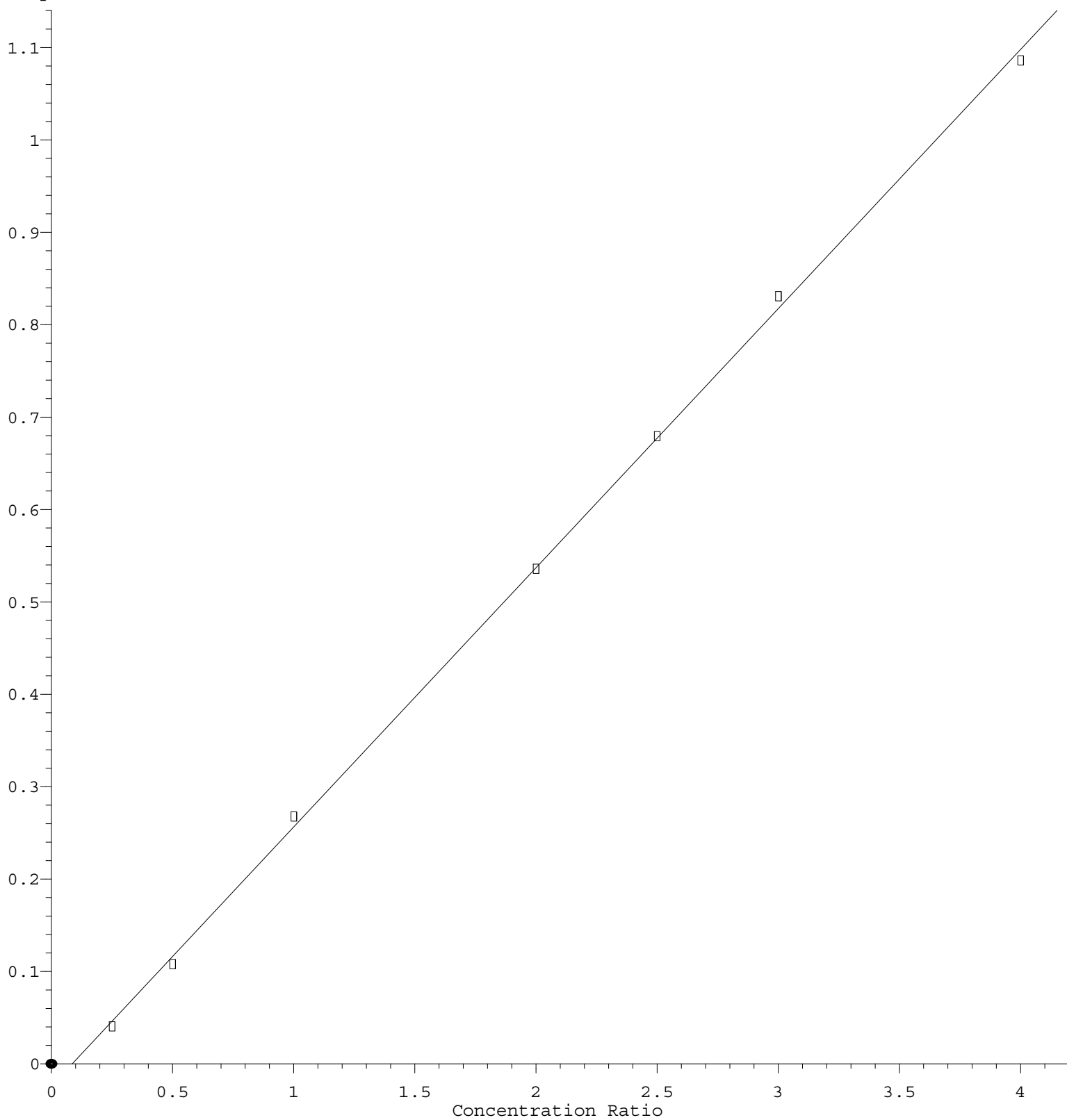
Coef of Det (r^2) = 0.999270 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



$$\text{Response} = 2.806\text{e-}001 * \text{Amt} - 2.427\text{e-}002$$

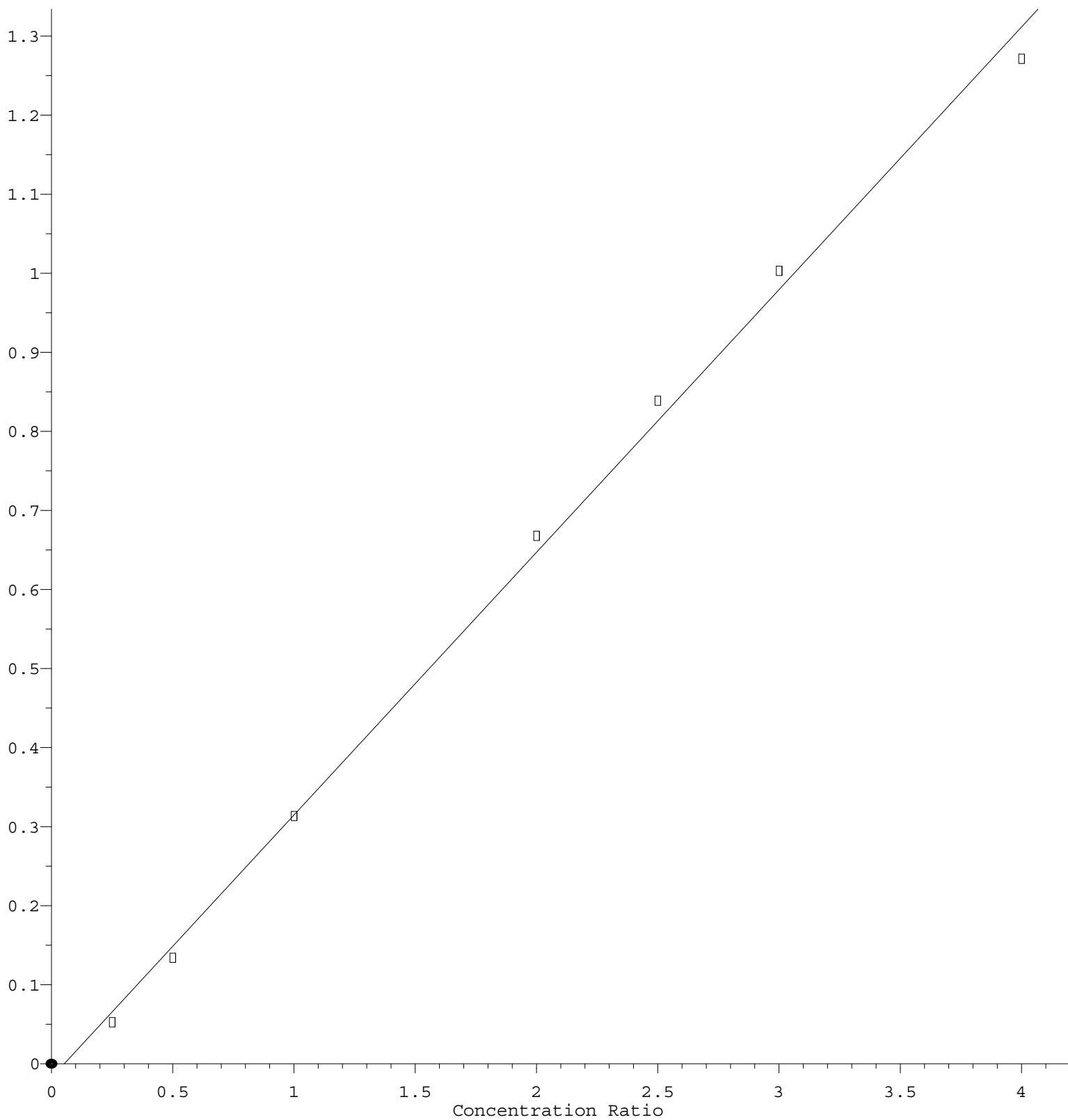
Coef of Det (r^2) = 0.999386 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



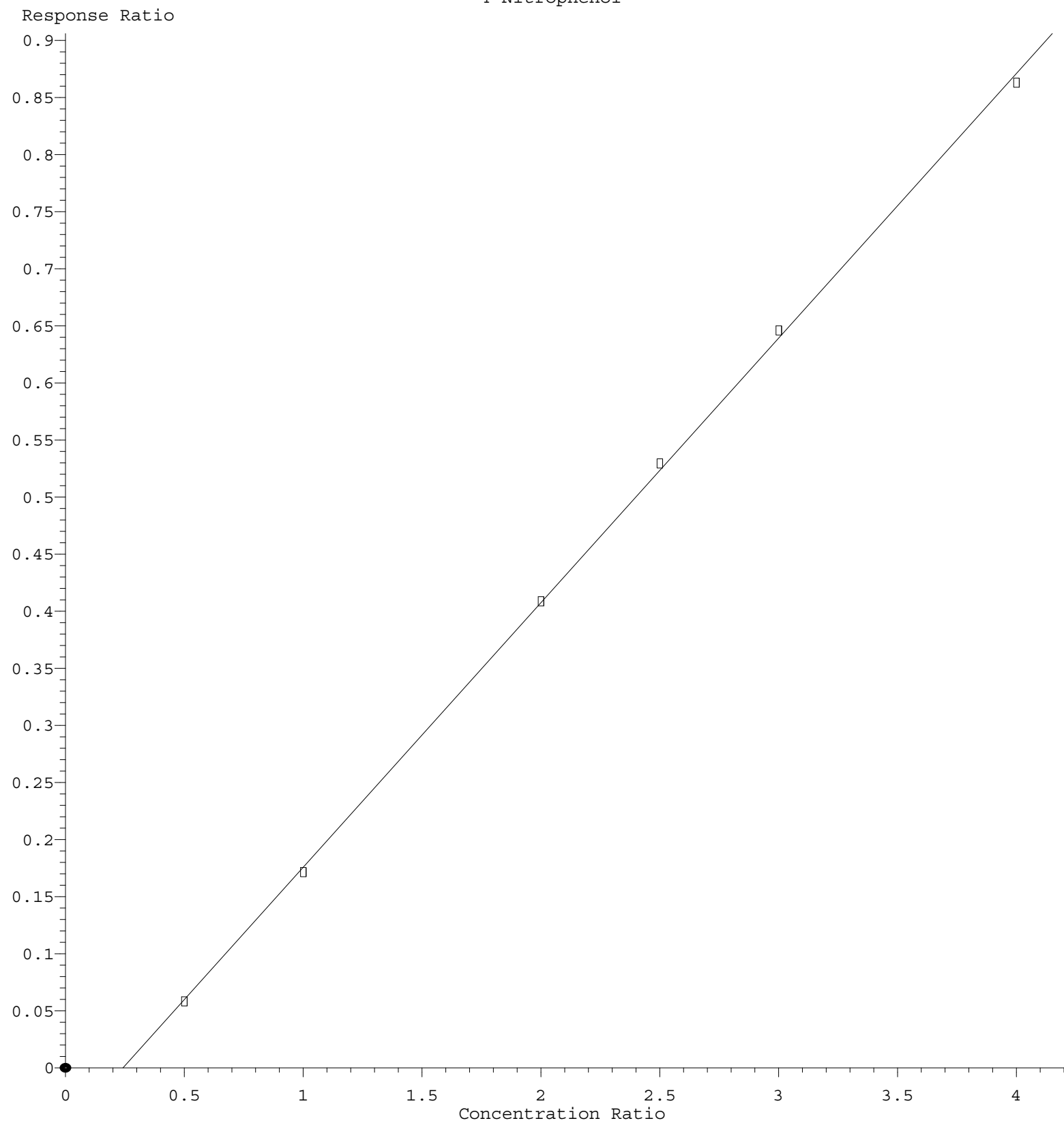
$$\text{Response} = 3.324\text{e-}001 * \text{Amt} - 1.767\text{e-}002$$

Coef of Det (r^2) = 0.997122 Curve Fit: Linear

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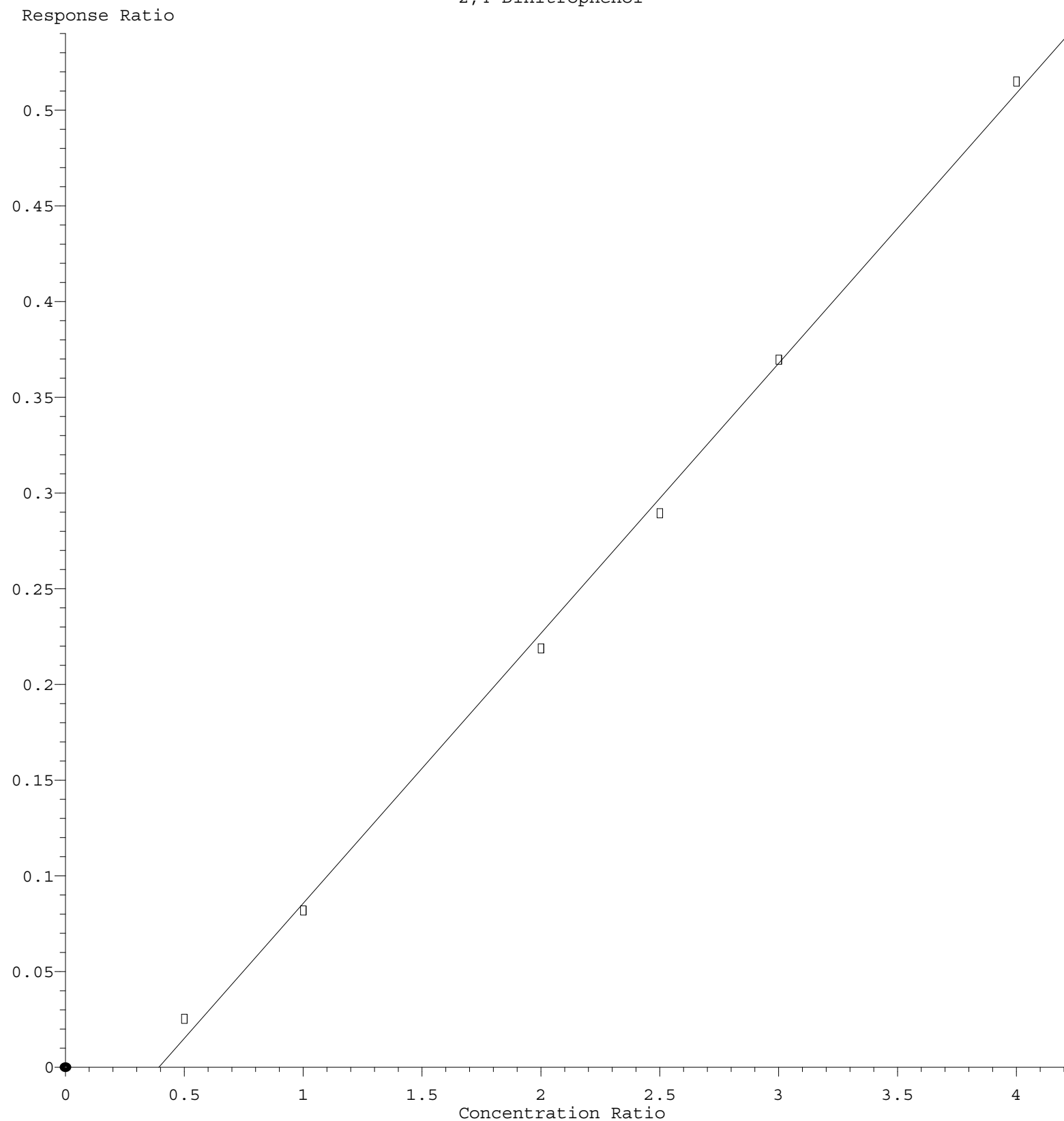
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4-Nitrophenol



Response = 2.318e-001 * Amt - 5.607e-002
 Coef of Det (r^2) = 0.999623 Curve Fit: Linear
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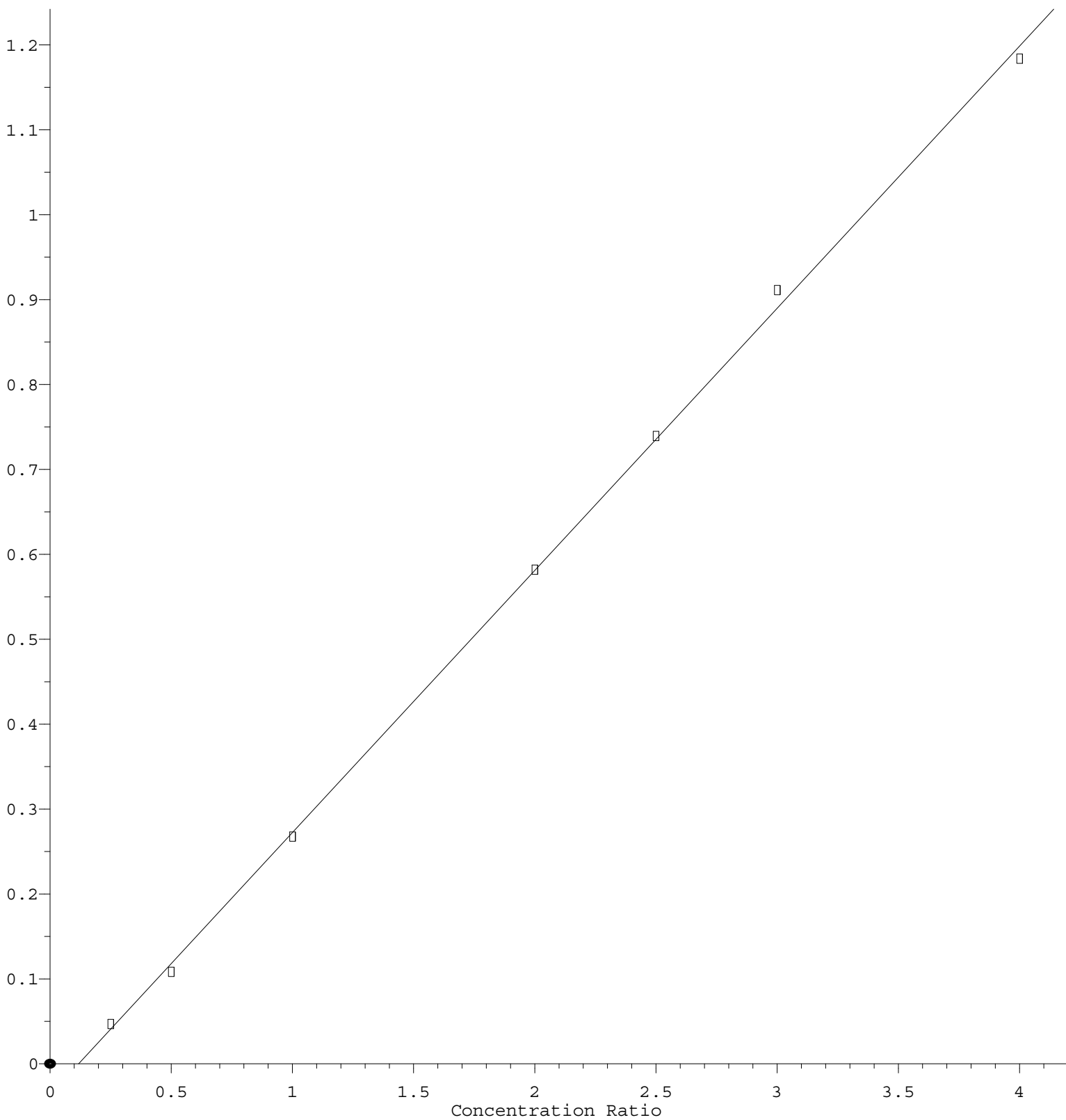
2,4-Dinitrophenol



Response = 1.409e-001 * Amt - 5.532e-002
 Coef of Det (r^2) = 0.998295 Curve Fit: Linear
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.090\text{e-}001 * \text{Amt} - 3.646\text{e-}002$$

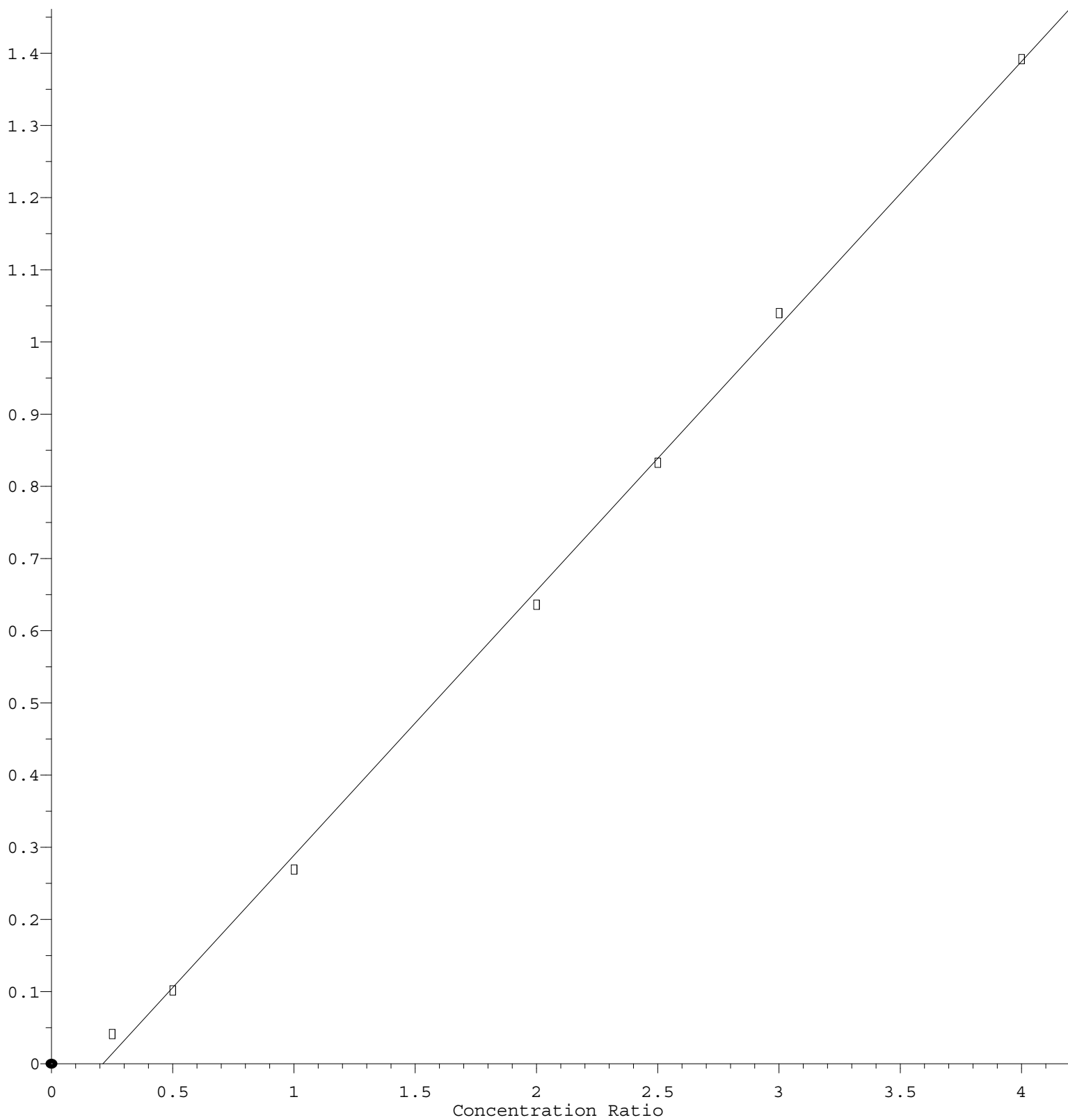
Coef of Det (r^2) = 0.999229 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



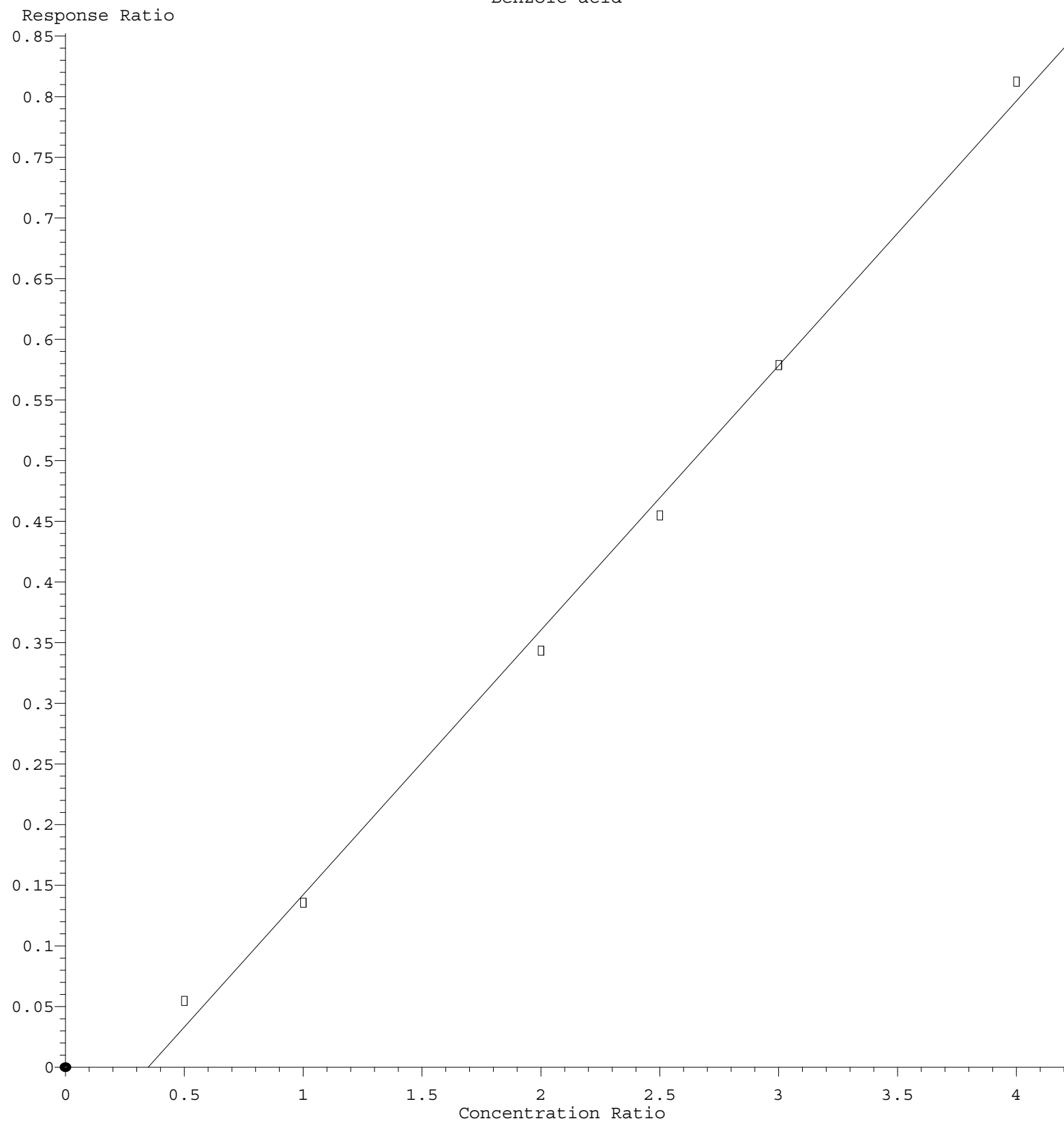
$$\text{Response} = 3.665\text{e-}001 * \text{Amt} - 7.776\text{e-}002$$

Coef of Det (r^2) = 0.998772 Curve Fit: Linear

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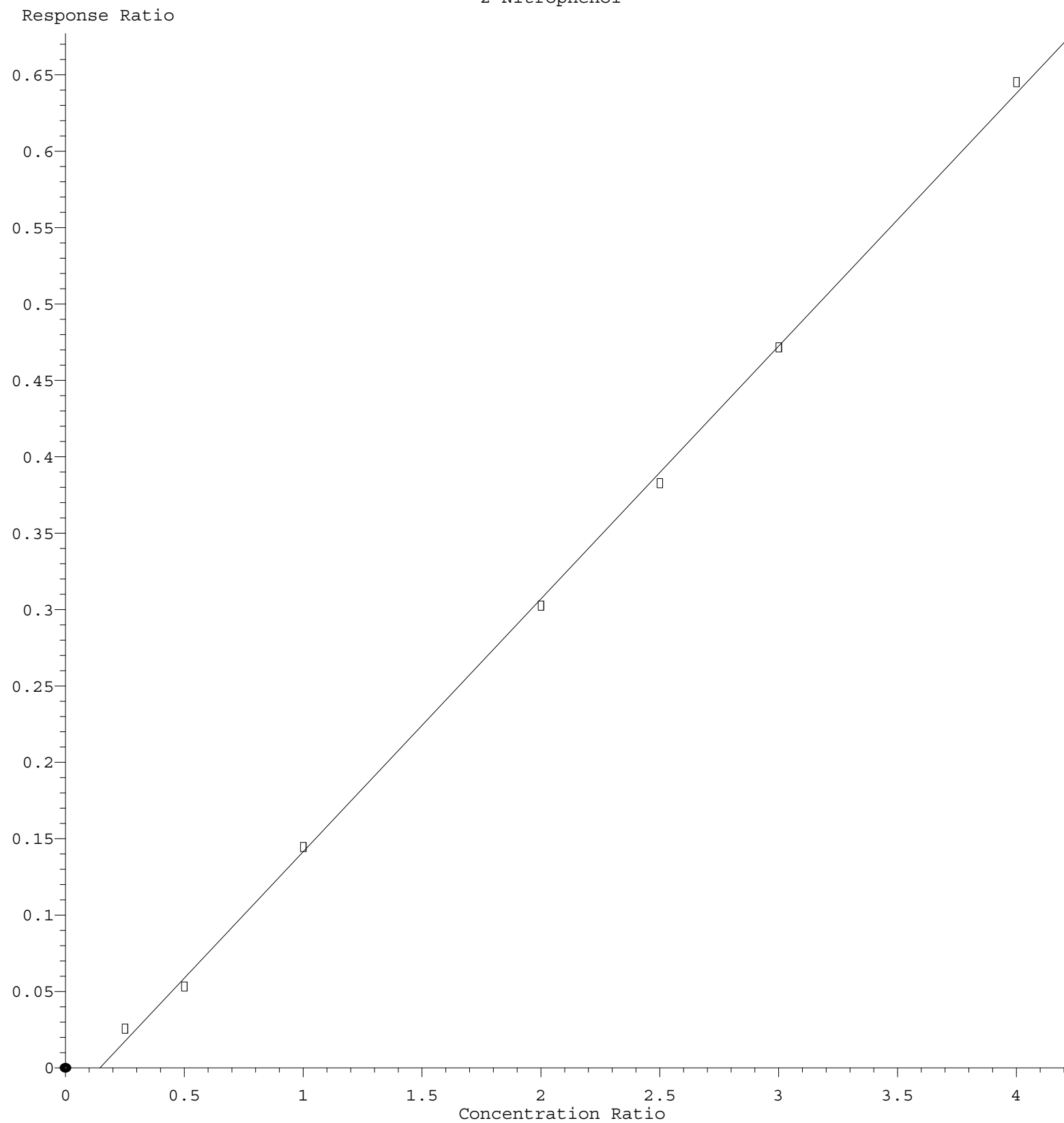
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Benzoic acid



Response = 2.180e-001 * Amt - 7.576e-002
 Coef of Det (r^2) = 0.996836 Curve Fit: Linear
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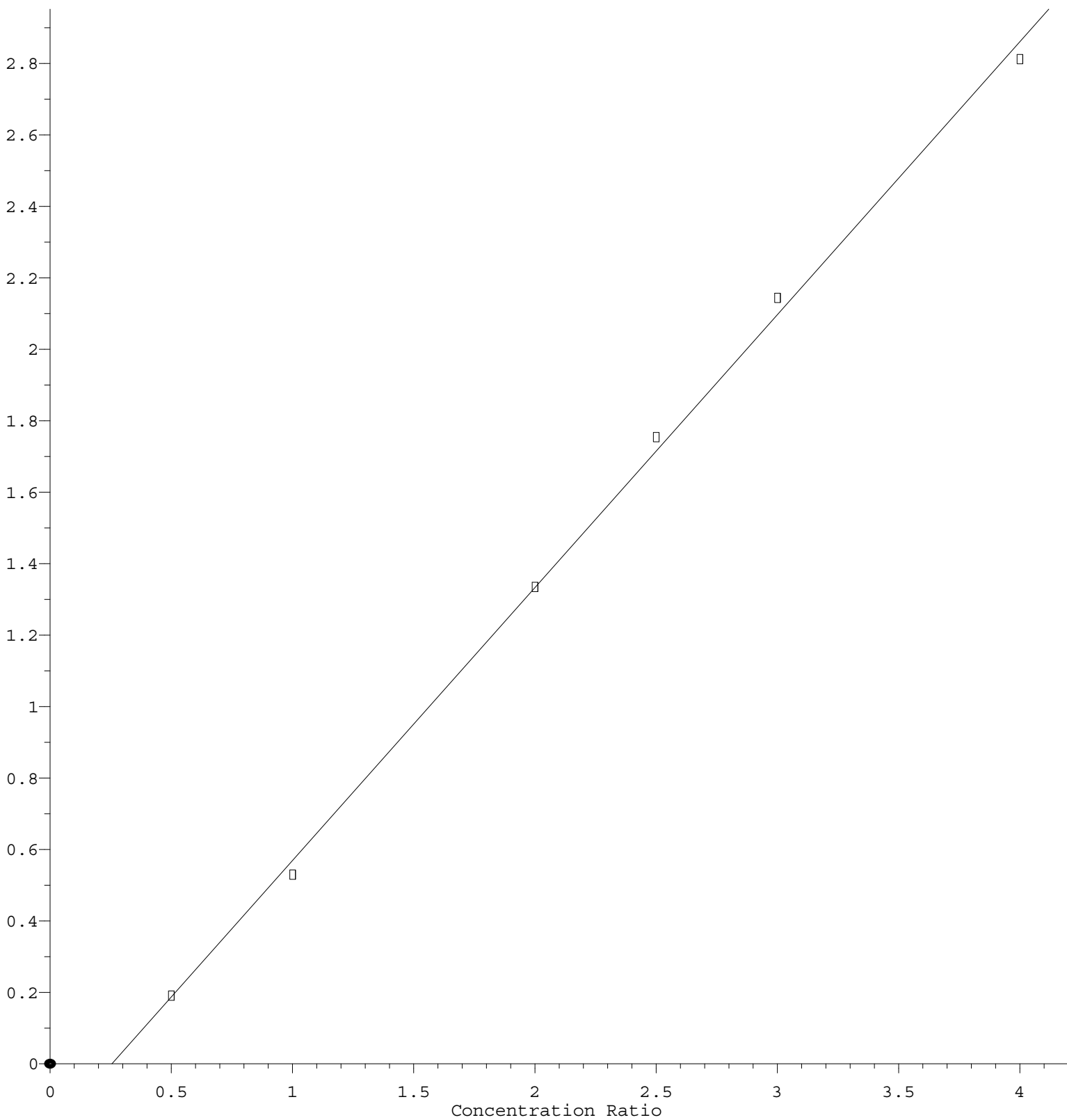
2-Nitrophenol



Response = $1.656 \times 10^{-1} \times \text{Amt} - 2.403 \times 10^{-2}$
 Coef of Det (r^2) = 0.999268 Curve Fit: Linear
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n-Nitrosodimethylamine

Response Ratio



$$\text{Response} = 7.643\text{e-}001 * \text{Amt} - 1.952\text{e-}001$$

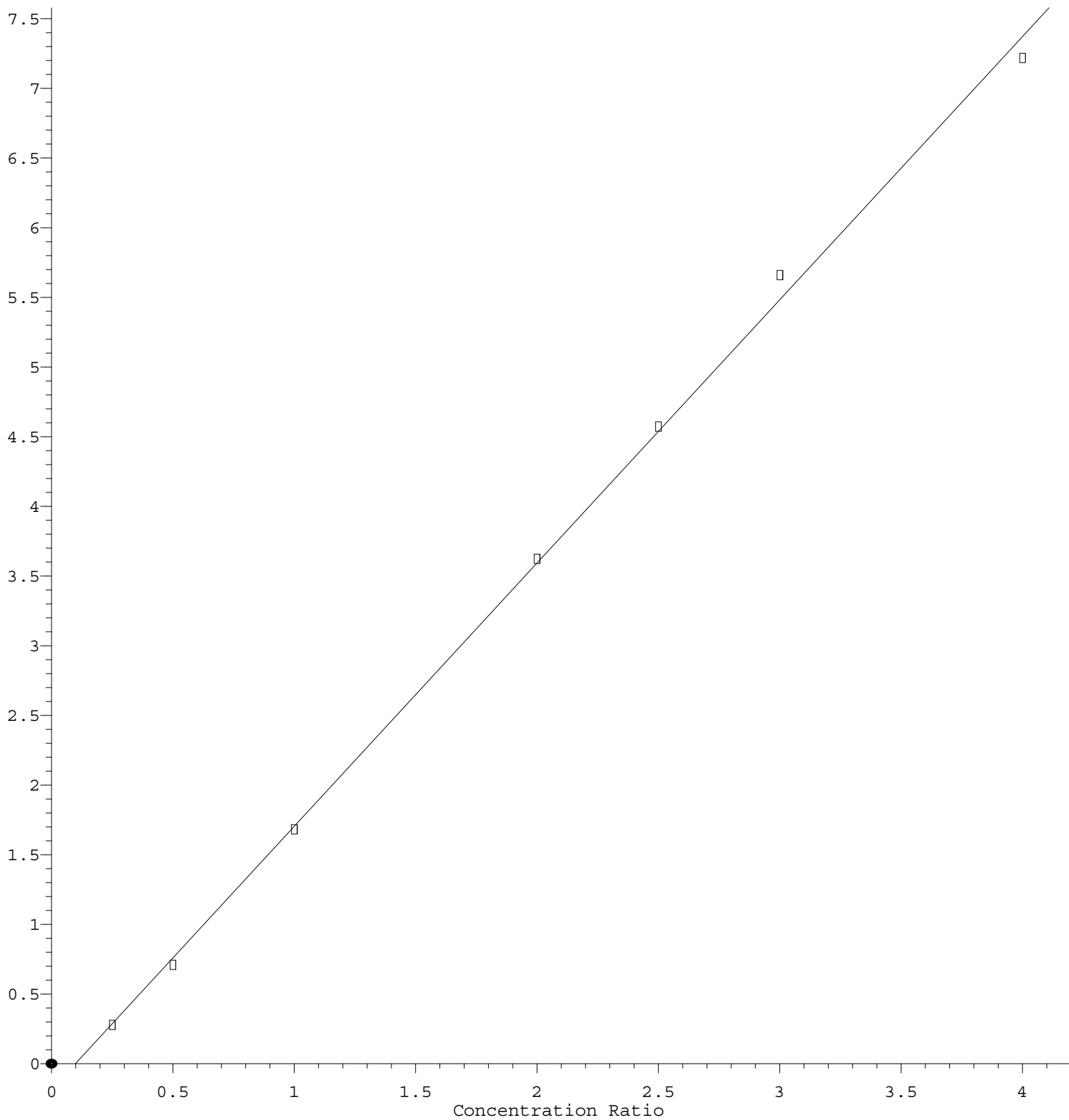
Coef of Det (r^2) = 0.998430 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022324.M

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Pyridine

Response Ratio



$$\text{Response} = 1.889\text{e}+000 * \text{Amt} - 1.842\text{e}-001$$

Coef of Det (r^2) = 0.998533 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022324.M

Calibration Table Last Updated: Sat Feb 24 04:23:49 2024