

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP112222.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Nov 23 00:38:14 2022
 Response Via : Initial Calibration

Calibration Files

2.5 =BP012692.D 5 =BP012693.D 10 =BP012694.D 20 =BP012695.D 40 =BP012696.D 50 =BP012697.D 60 =BP012698.D 80 =BP012699.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.429	0.421	0.410	0.363	0.363	0.375	0.362	0.389	7.65	
3)	Pyridine	1.268	1.270	1.299	1.171	1.190	1.234	1.221	1.236	3.72	
4)	n-Nitrosodimet...	0.565	0.561	0.575	0.511	0.517	0.540	0.516	0.541	4.91	
5) S	2-Fluorophenol	0.857	0.895	0.966	0.893	0.933	0.972	0.946	0.923	4.66	
6)	Aniline	1.538	1.628	1.750	1.657	1.676	1.733	1.735	1.674	4.48	
7) S	Phenol-d6	1.195	1.279	1.395	1.312	1.336	1.384	1.367	1.324	5.31	
8)	2-Chlorophenol	1.088	1.136	1.253	1.165	1.210	1.252	1.231	1.191	5.29	
9)	Benzaldehyde	1.123	1.113	1.041	0.798	0.765	0.711		0.925	20.24	
10) C	Phenol	1.371	1.470	1.599	1.488	1.517	1.563	1.552	1.509	4.98	
11)	bis(2-Chloroet...	1.365	1.378	1.414	1.259	1.269	1.289	1.248	1.317	5.05	
12)	1,3-Dichlorobe...	1.538	1.558	1.574	1.393	1.425	1.460	1.410	1.480	5.10	
13) C	1,4-Dichlorobe...	1.604	1.581	1.618	1.428	1.462	1.502	1.442	1.520	5.28	
14)	1,2-Dichlorobe...	1.542	1.548	1.582	1.390	1.421	1.457	1.396	1.477	5.38	
15)	Benzyl Alcohol	0.744	0.835	0.970	0.966	0.996	1.031	1.046	0.941	11.77	
16)	2,2'-oxybis(1-...	2.070	2.108	2.103	1.866	1.838	1.870	1.810	1.952	6.89	
17)	2-Methylphenol	0.873	0.952	1.085	1.048	1.066	1.095	1.095	1.030	8.29	
18)	Hexachloroethane	0.602	0.575	0.589	0.517	0.533	0.546	0.524	0.555	6.05	
19) P	n-Nitroso-di-n...	0.764	0.846	0.945	1.040	0.974	0.971	0.974	0.962	0.935	9.32
20)	3+4-Methylphenols	1.068	1.247	1.446	1.417	1.461	1.535	1.539	1.387	12.36	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.483	0.509	0.513	0.457	0.477	0.493	0.486	0.488	3.94	
23) S	Nitrobenzene-d5	0.336	0.354	0.377	0.342	0.358	0.374	0.369	0.359	4.40	
24)	Nitrobenzene	0.344	0.366	0.384	0.350	0.367	0.382	0.376	0.367	4.13	
25)	Isophorone	0.616	0.652	0.679	0.627	0.662	0.679	0.687	0.658	4.19	
26) C	2-Nitrophenol	0.061	0.075	0.097	0.115	0.132			0.096	30.00	
27)	2,4-Dimethylph...	0.172	0.195	0.228	0.224	0.241	0.256	0.262	0.225	14.41	
28)	bis(2-Chloroet...	0.360	0.386	0.404	0.374	0.392	0.406	0.402	0.389	4.39	
29) C	2,4-Dichloroph...	0.205	0.245	0.292	0.294	0.317			0.271	16.67	
30)	1,2,4-Trichlor...	0.344	0.348	0.369	0.339	0.360	0.377	0.378	0.359	4.47	
31)	Naphthalene	1.079	1.100	1.129	1.019	1.066	1.111	1.093	1.085	3.28	
32)	Benzoic acid		0.068	0.086	0.107	0.122	0.145	0.170	0.117	32.28	
33)	4-Chloroaniline	0.312	0.361	0.401	0.392	0.416	0.437	0.449	0.396	11.80	
34) C	Hexachlorobuta...	0.217	0.222	0.231	0.210	0.225	0.237	0.237	0.225	4.46	
35)	Caprolactam		0.052	0.070	0.077	0.087	0.095	0.102	0.080	22.56	
36) C	4-Chloro-3-met...	0.231	0.266	0.311	0.300	0.318	0.334	0.344	0.301	13.22	
37)	2-Methylnaphth...	0.728	0.774	0.808	0.739	0.771	0.795	0.797	0.773	3.90	
38)	1-Methylnaphth...	0.734	0.765	0.786	0.723	0.753	0.776	0.777	0.759	3.09	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP112222.M

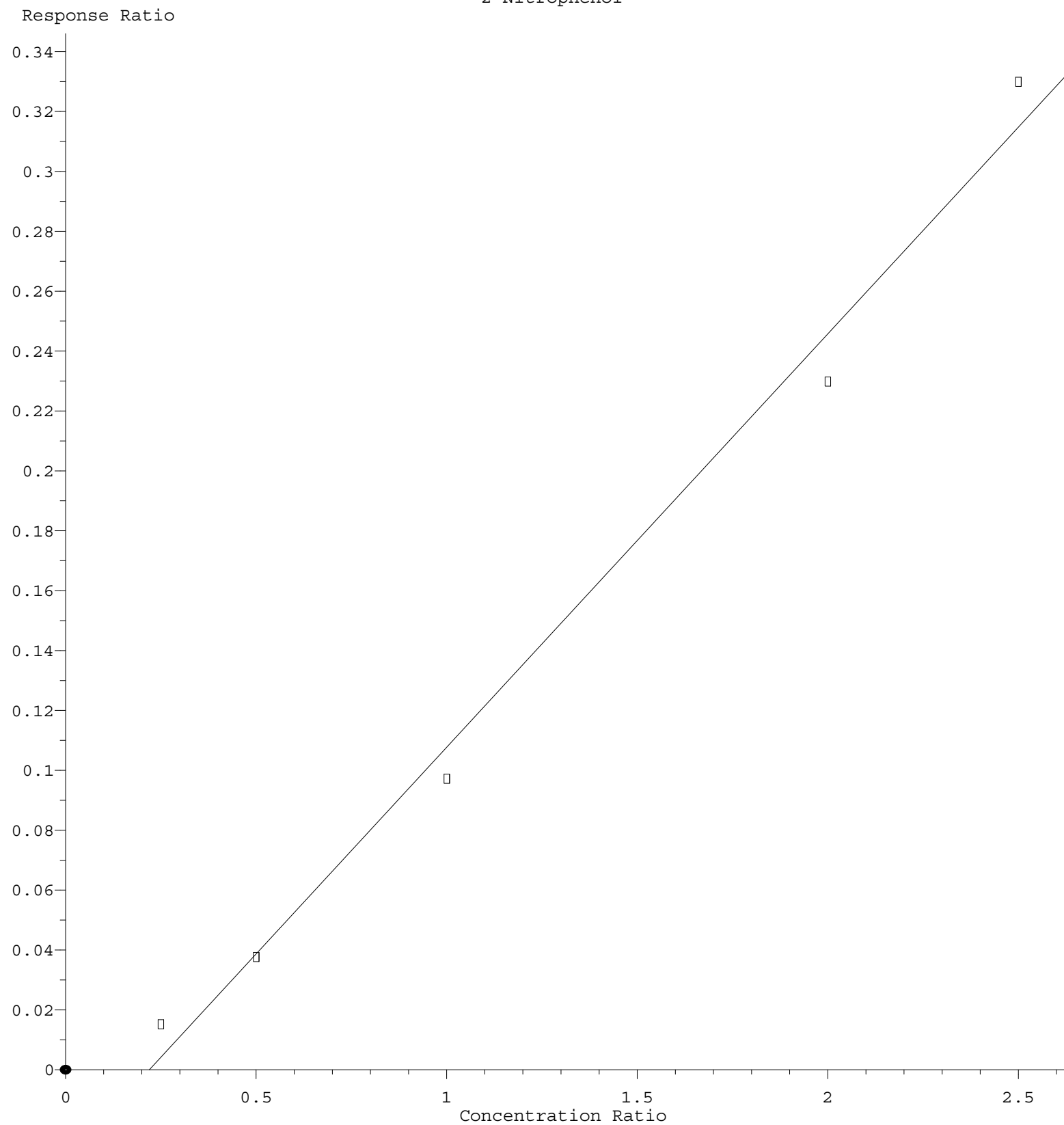
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.579	0.601	0.657	0.606	0.656	0.684	0.674	0.637	6.41	
41) P	Hexachlorocycl...	0.253	0.269	0.306	0.296	0.328	0.333	0.335	0.303	10.71	
42) S	2,4,6-Tribromo...	0.164	0.204	0.213	0.242	0.259	0.271	0.225		17.50	
43) C	2,4,6-Trichlor...	0.233	0.287	0.367	0.379	0.422	0.442	0.452	0.369	22.25	
44)	2,4,5-Trichlor...	0.326	0.373	0.451	0.434	0.477			0.412	14.92	
45) S	2-Fluorobiphenyl	1.370	1.429	1.515	1.331	1.402	1.426	1.355	1.404	4.34	
46)	1,1'-Biphenyl	1.452	1.500	1.586	1.430	1.528	1.568	1.527	1.513	3.79	
47)	2-Chloronaphth...	1.137	1.176	1.254	1.134	1.213	1.254	1.219	1.198	4.20	
48)	2-Nitroaniline	0.154	0.196	0.257	0.274	0.305	0.324	0.334	0.263	25.51	
49)	Acenaphthylene	1.767	1.885	1.989	1.801	1.937	1.988	1.951	1.903	4.66	
50)	Dimethylphthalate	1.285	1.388	1.528	1.424	1.526	1.577	1.574	1.472	7.43	
51)	2,6-Dinitrotol...	0.241	0.273	0.320	0.306	0.330	0.346	0.349	0.309	12.79	
52) C	Acenaphthene	1.131	1.175	1.244	1.138	1.224	1.274	1.254	1.206	4.77	
53)	3-Nitroaniline	0.209	0.258	0.319	0.320	0.349	0.369	0.375	0.314	19.29	
54) P	2,4-Dinitrophenol	0.072	0.096	0.113	0.132	0.147	0.163	0.120		27.84	
55)	Dibenzofuran	1.806	1.884	1.966	1.772	1.879	1.936	1.887	1.876	3.62	
56) P	4-Nitrophenol	0.190	0.249	0.256	0.282	0.304	0.311	0.265		16.76	
57)	2,4-Dinitrotol...	0.282	0.343	0.412	0.412	0.450	0.474	0.483	0.408	17.93	
58)	Fluorene	1.520	1.590	1.649	1.464	1.535	1.550	1.486	1.542	4.07	
59)	2,3,4,6-Tetrac...	0.303	0.345	0.414	0.400	0.433	0.461	0.465	0.403	14.90	
60)	Diethylphthalate	1.113	1.263	1.421	1.369	1.489	1.541	1.546	1.392	11.41	
61)	4-Chlorophenyl...	0.730	0.763	0.799	0.729	0.776	0.790	0.772	0.766	3.60	
62)	4-Nitroaniline	0.161	0.230	0.305	0.317	0.346	0.368	0.381	0.301	26.37	
63)	Azobenzene	1.403	1.496	1.568	1.387	1.461	1.495	1.458	1.467	4.17	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.049	0.065	0.076	0.090	0.099	0.107	0.081		26.90	
66) c	n-Nitrosodiphe...	0.495	0.530	0.578	0.538	0.580	0.598	0.595	0.559	6.92	
67)	4-Bromophenyl-...	0.181	0.187	0.205	0.195	0.213	0.223	0.228	0.205	8.75	
68)	Hexachlorobenzene	0.235	0.242	0.256	0.237	0.258	0.268	0.273	0.253	5.96	
69)	Atrazine	0.092	0.115	0.149	0.159	0.172	0.181	0.182	0.150	23.05	
70) C	Pentachlorophenol	0.115	0.139	0.145	0.162	0.170		0.146		14.62	
71)	Phenanthrene	1.099	1.125	1.179	1.071	1.132	1.169	1.143	1.131	3.33	
72)	Anthracene	0.996	1.052	1.116	1.030	1.093	1.131	1.107	1.075	4.66	
73)	Carbazole	0.877	0.934	1.009	0.933	0.990	1.033	1.024	0.971	5.96	
74)	Di-n-butylphth...	0.482	0.580	0.777	0.885	1.018	1.083	1.125	0.850	29.35	
75) C	Fluoranthene	1.211	1.294	1.394	1.285	1.371	1.417	1.371	1.335	5.50	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.098	0.081	0.076	0.110	0.100	0.143	0.216	0.118	41.35	
78)	Pyrene	1.206	1.292	1.390	1.277	1.360	1.388	1.331	1.320	5.08	
79) S	Terphenyl-d14	0.949	0.999	1.059	0.933	0.942	0.917	0.788	0.941	8.83	
80)	Butylbenzylphth...	0.102	0.105	0.117	0.130	0.156	0.183		0.132	23.98	
81)	Benzo(a)anthra...	1.240	1.316	1.413	1.299	1.372	1.435	1.387	1.352	5.14	
82)	3,3'-Dichlorob...	0.159	0.234	0.283	0.313	0.354	0.371	0.286		27.73	
83)	Chrysene	1.229	1.263	1.357	1.244	1.300	1.361	1.302	1.294	4.01	
84)	Bis(2-ethylhex...	0.163	0.174	0.208	0.259	0.318	0.371		0.249	33.43	
85) c	Di-n-octyl pht...	0.316	0.392	0.503	0.618	0.753	0.904	0.581		38.26#	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP112222.M

86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.196	1.321	1.498	1.349	1.372	1.543	1.526	1.401	9.08	
88)	Benzo(b)fluora...	1.110	1.252	1.377	1.278	1.463	1.469	1.419	1.338	9.83	
89)	Benzo(k)fluora...	1.203	1.295	1.383	1.346	1.448	1.469	1.457	1.372	7.15	
90) C	Benzo(a)pyrene	0.859	0.961	1.083	1.044	1.136	1.192	1.192	1.067	11.57	
91)	Dibenzo(a,h)an...	1.023	1.140	1.280	1.148	1.168	1.309	1.290	1.194	8.70	
92)	Benzo(g,h,i)pe...	0.950	1.033	1.159	1.022	1.038	1.173	1.167	1.078	8.18	

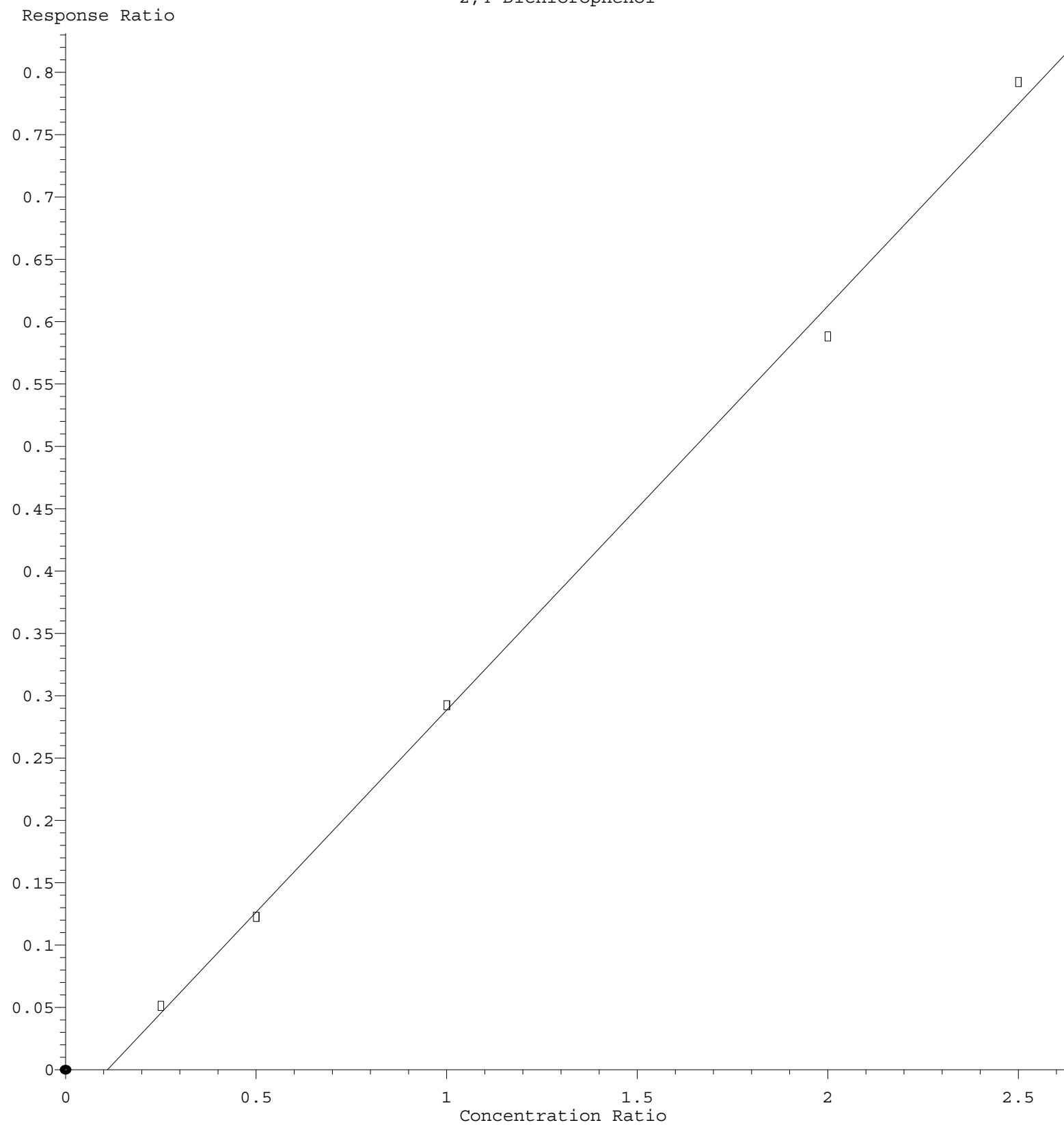
(#) = Out of Range

2-Nitrophenol



Response = 1.379e-001 * Amt - 3.039e-002
 Coef of Det (r^2) = 0.990065 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

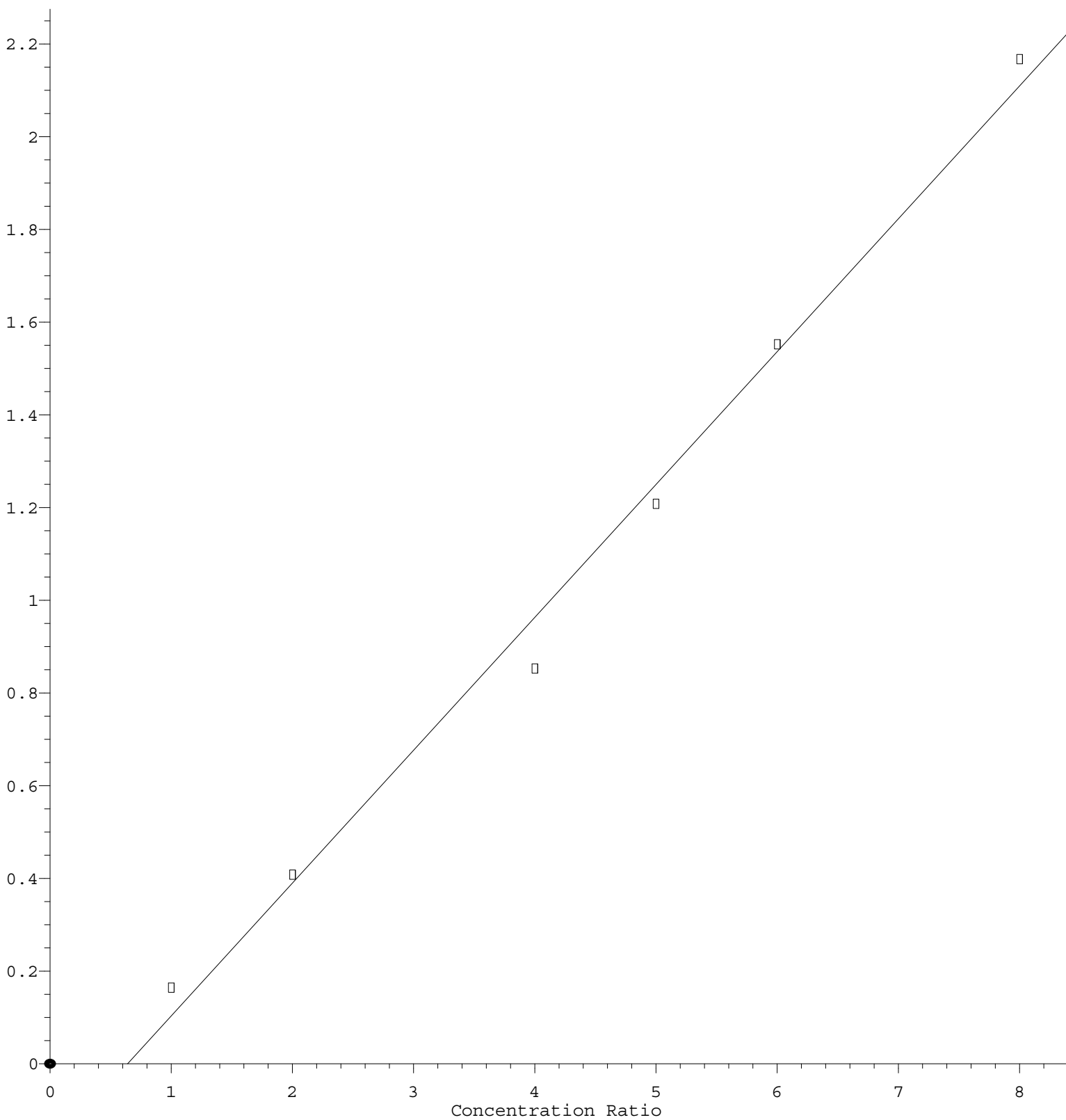
2,4-Dichlorophenol



$\text{Response} = 3.240\text{e-}001 * \text{Amt} - 3.572\text{e-}002$
 Coef of Det (r^2) = 0.997552 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

2,4,6-Tribromophenol

Response Ratio



$$\text{Response} = 2.866\text{e-}001 * \text{Amt} - 1.834\text{e-}001$$

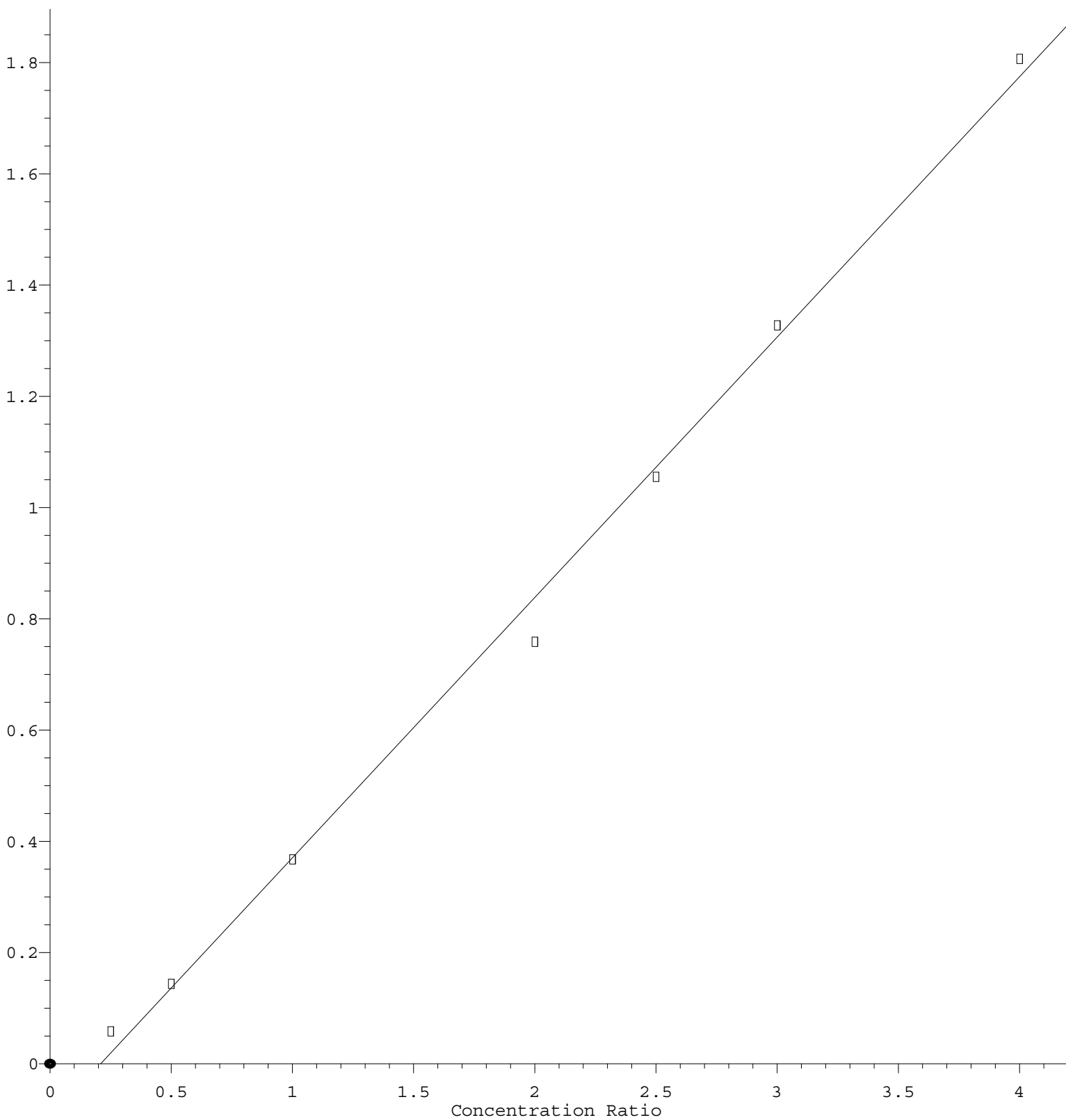
Coef of Det (r^2) = 0.992188 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M

Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

2,4,6-Trichlorophenol

Response Ratio



$$\text{Response} = 4.681\text{e-}001 * \text{Amt} - 9.790\text{e-}002$$

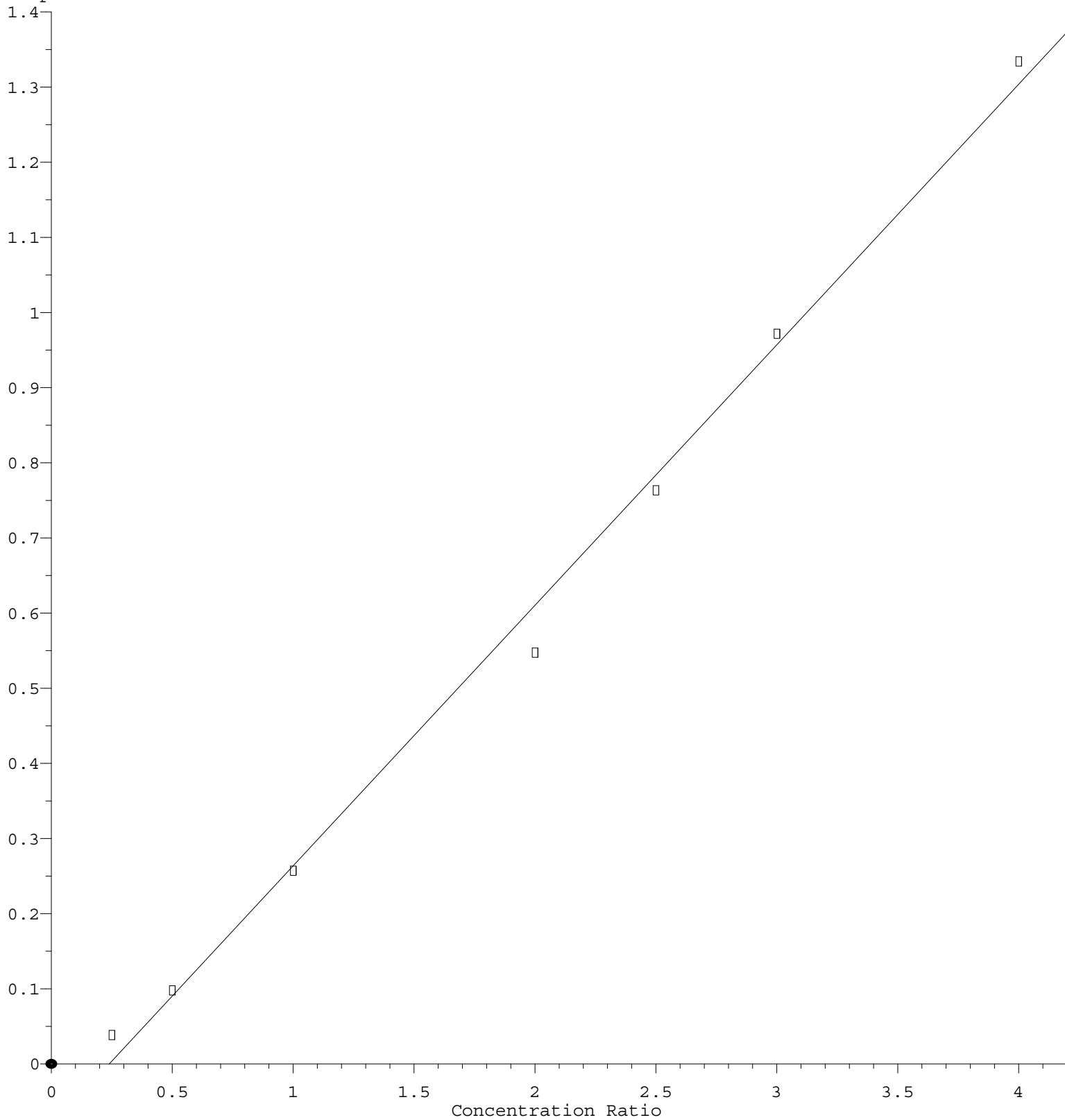
Coef of Det (r^2) = 0.996151 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M

Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

2-Nitroaniline

Response Ratio



$$\text{Response} = 3.466\text{e-}001 * \text{Amt} - 8.331\text{e-}002$$

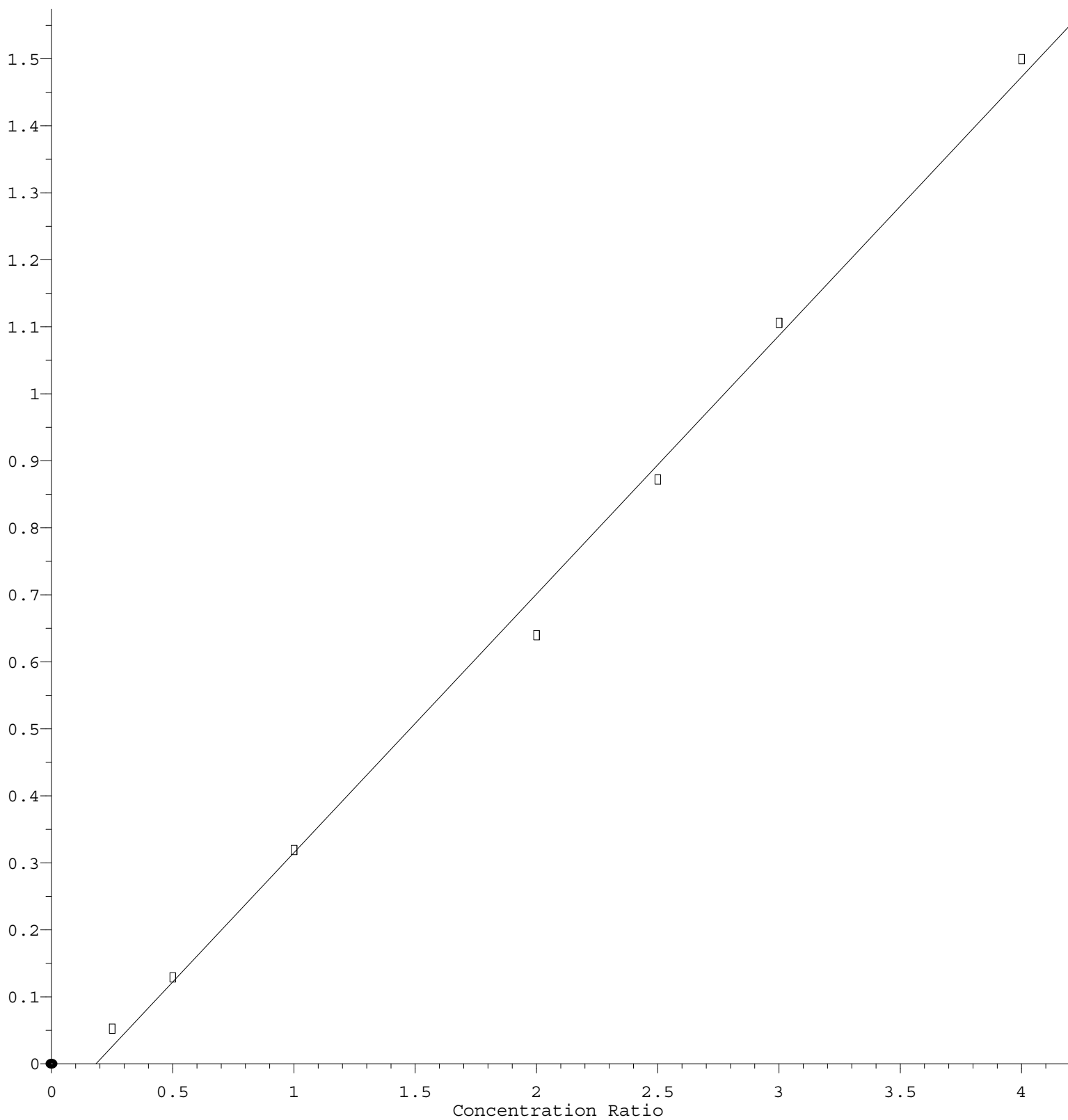
Coef of Det (r^2) = 0.995065 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M

Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

3-Nitroaniline

Response Ratio



$$\text{Response} = 3.859\text{e-}001 * \text{Amt} - 7.094\text{e-}002$$

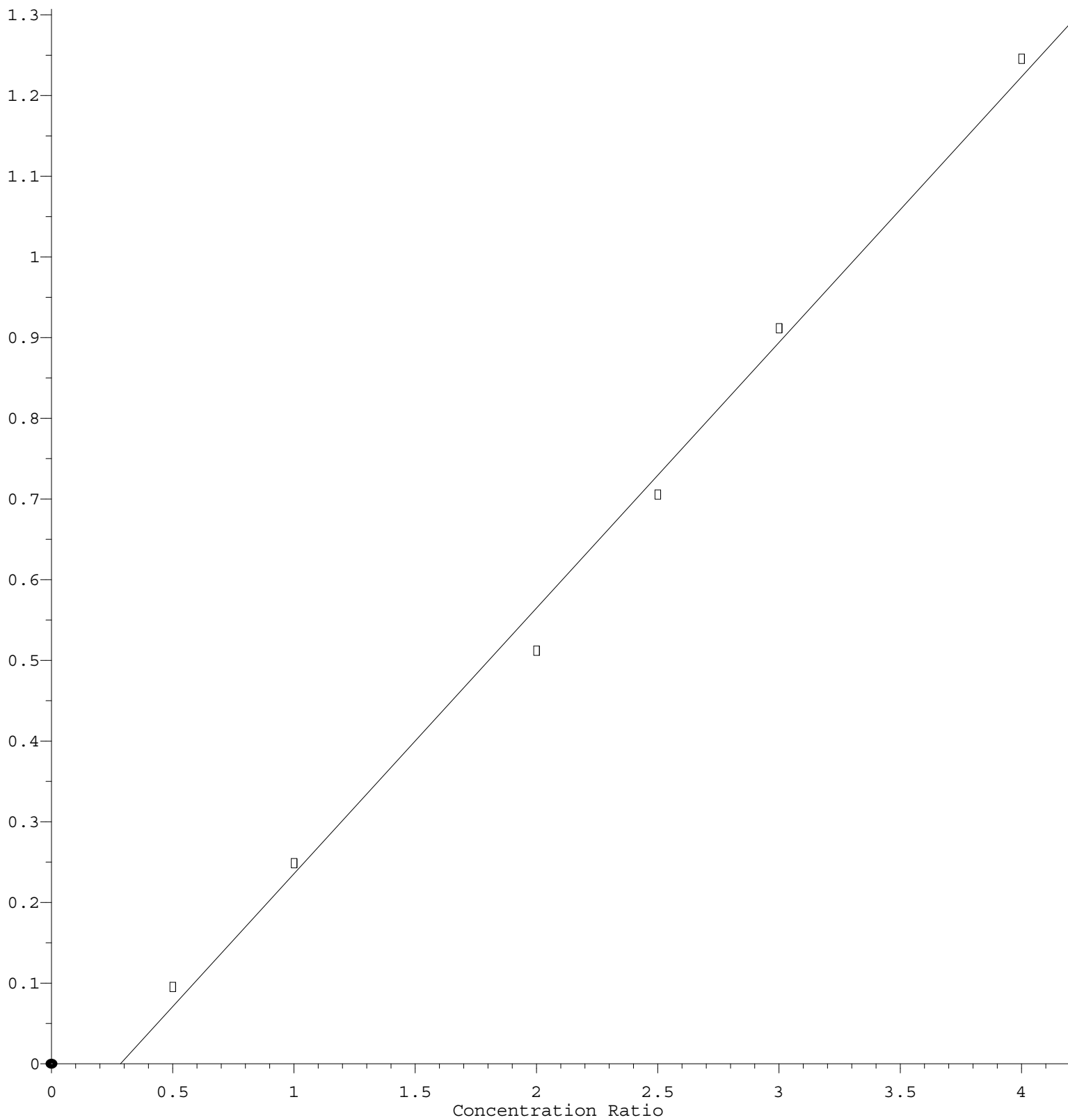
Coef of Det (r^2) = 0.996443 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M

Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

4-Nitrophenol

Response Ratio



$$\text{Response} = 3.293\text{e-}001 * \text{Amt} - 9.385\text{e-}002$$

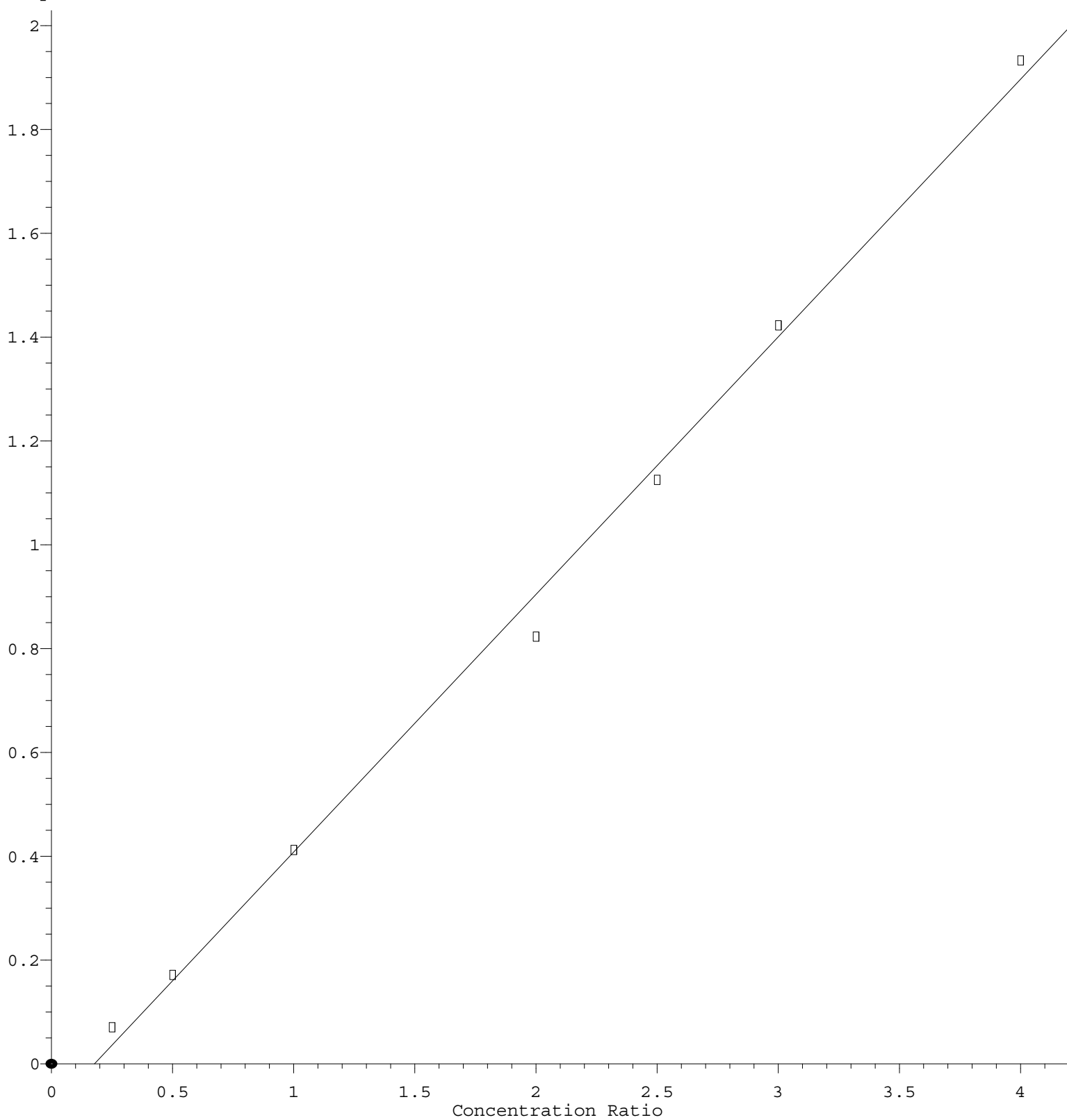
Coef of Det (r^2) = 0.994580 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M

Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.961\text{e-}001 * \text{Amt} - 8.814\text{e-}002$$

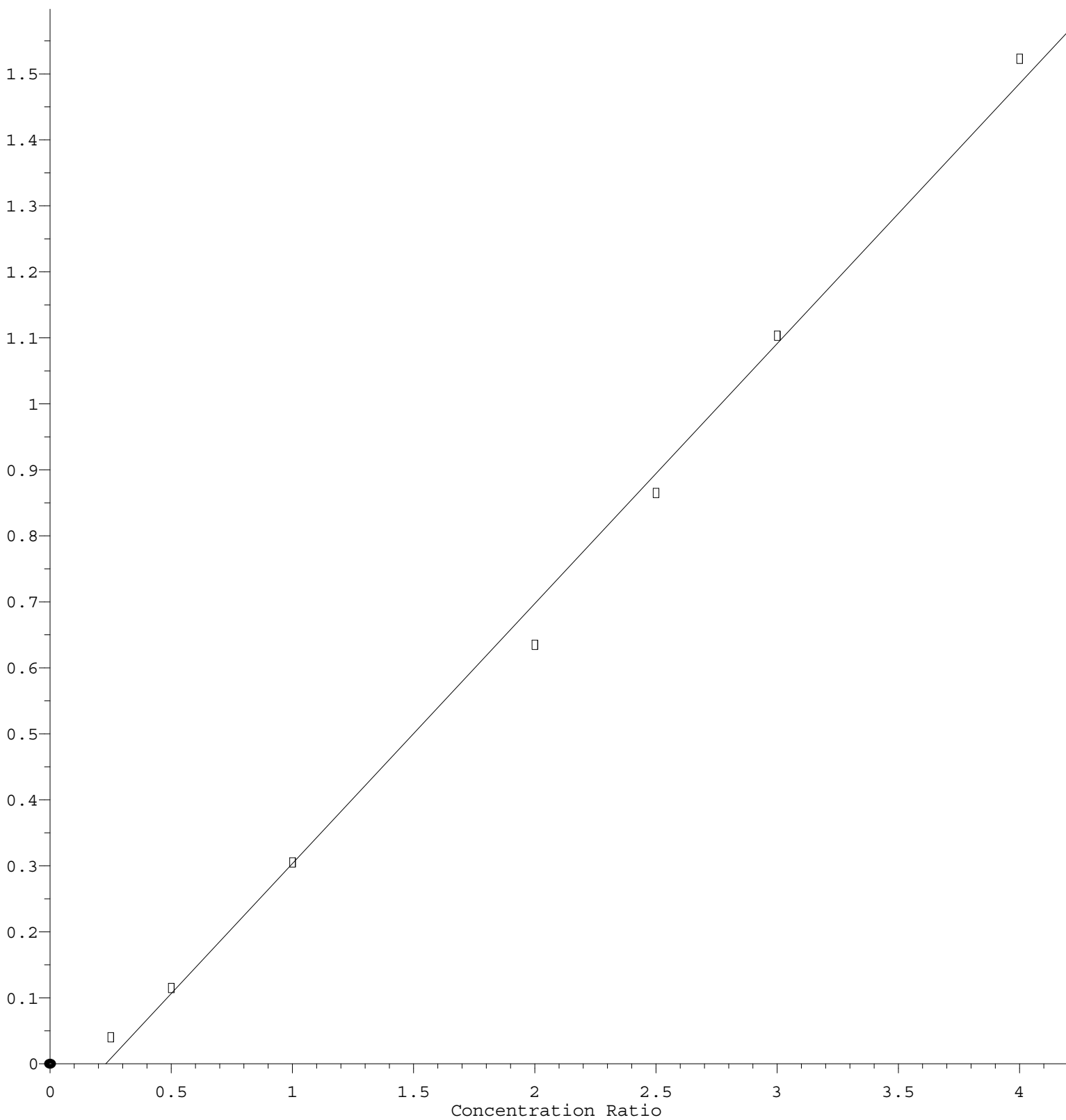
Coef of Det (r^2) = 0.996302 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M

Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

4-Nitroaniline

Response Ratio



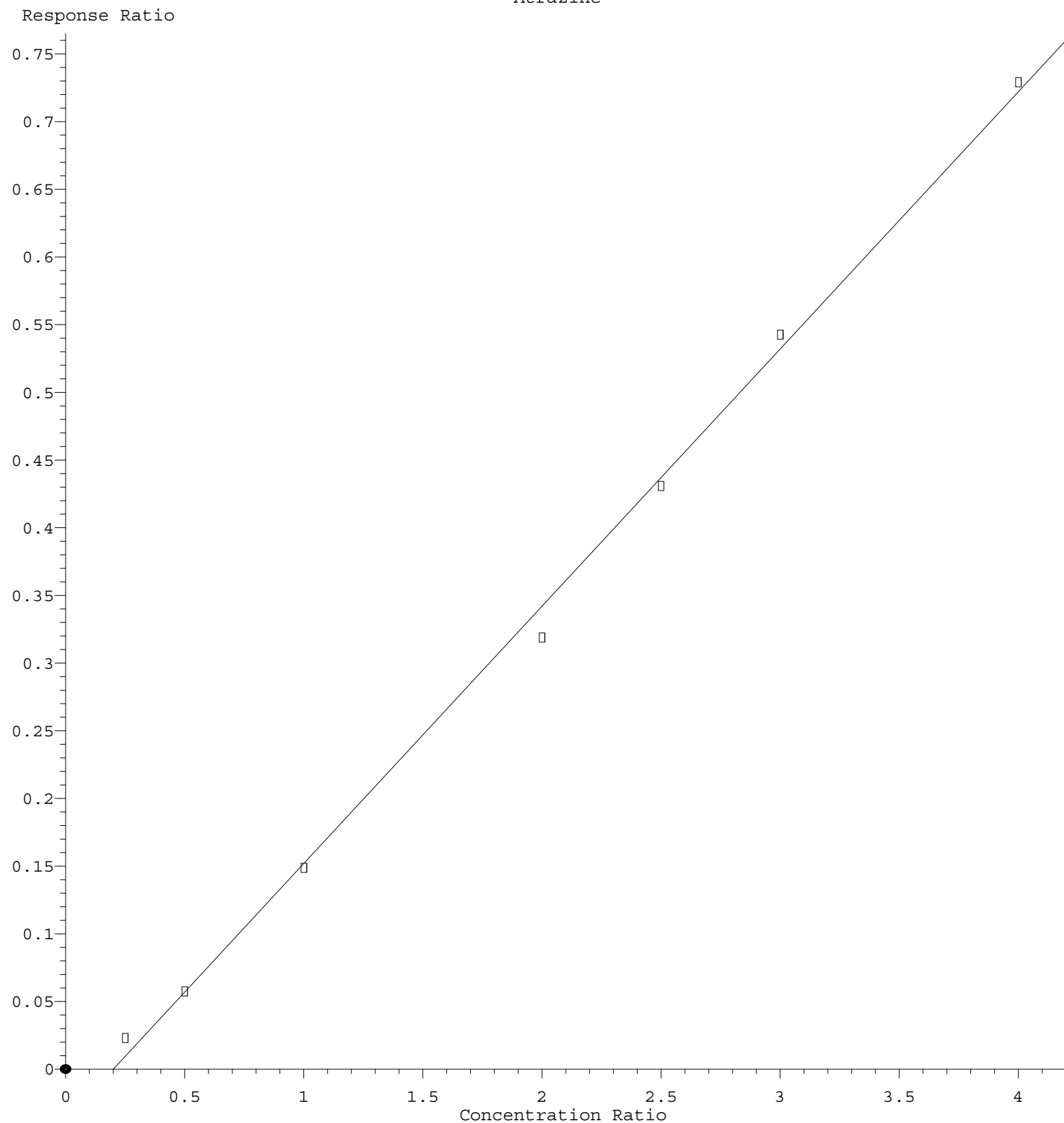
$$\text{Response} = 3.941\text{e-}001 * \text{Amt} - 9.078\text{e-}002$$

Coef of Det (r^2) = 0.995841 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M

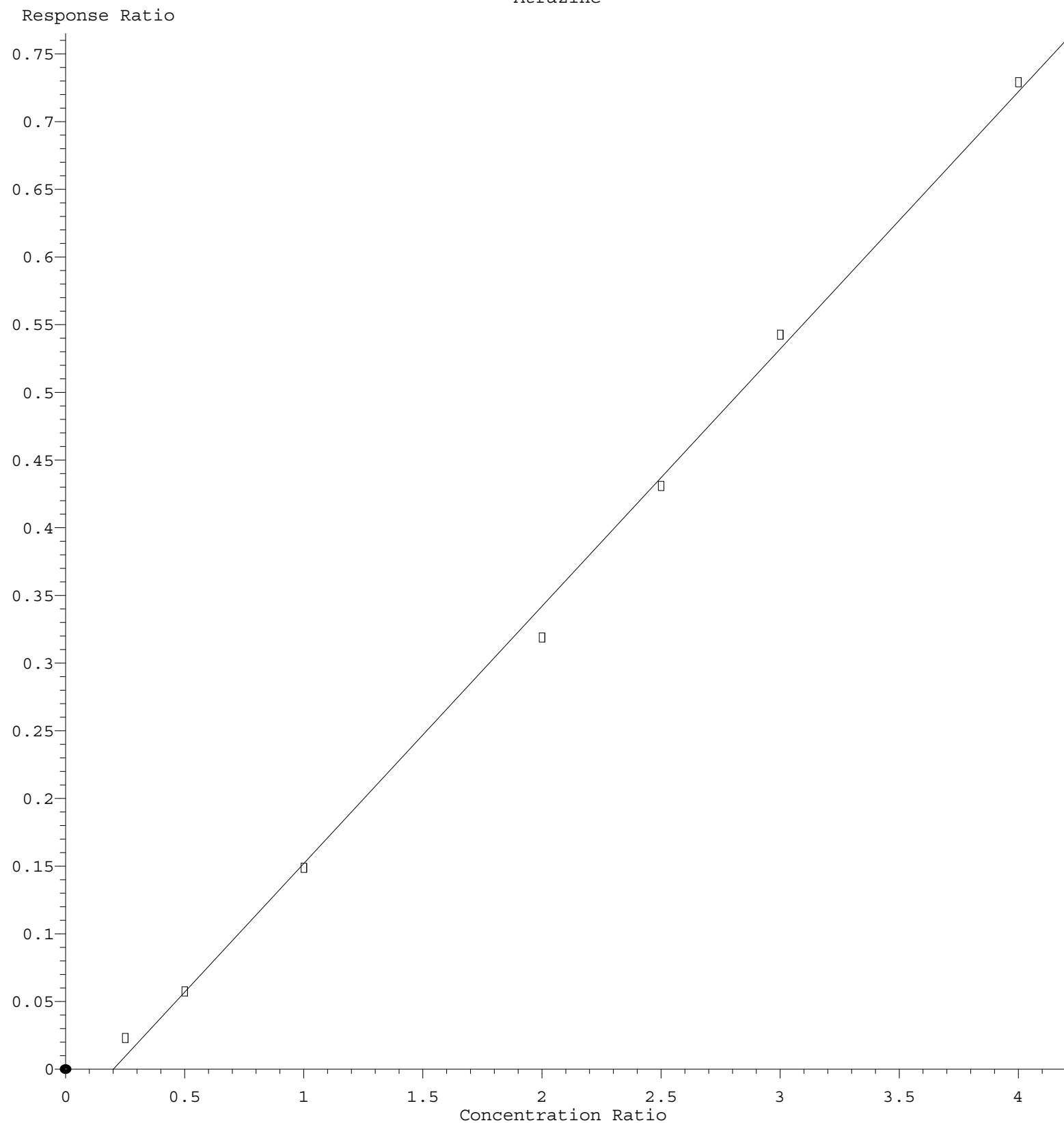
Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

Atrazine



Response = 1.901e-001 * Amt - 3.826e-002
 Coef of Det (r^2) = 0.997759 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

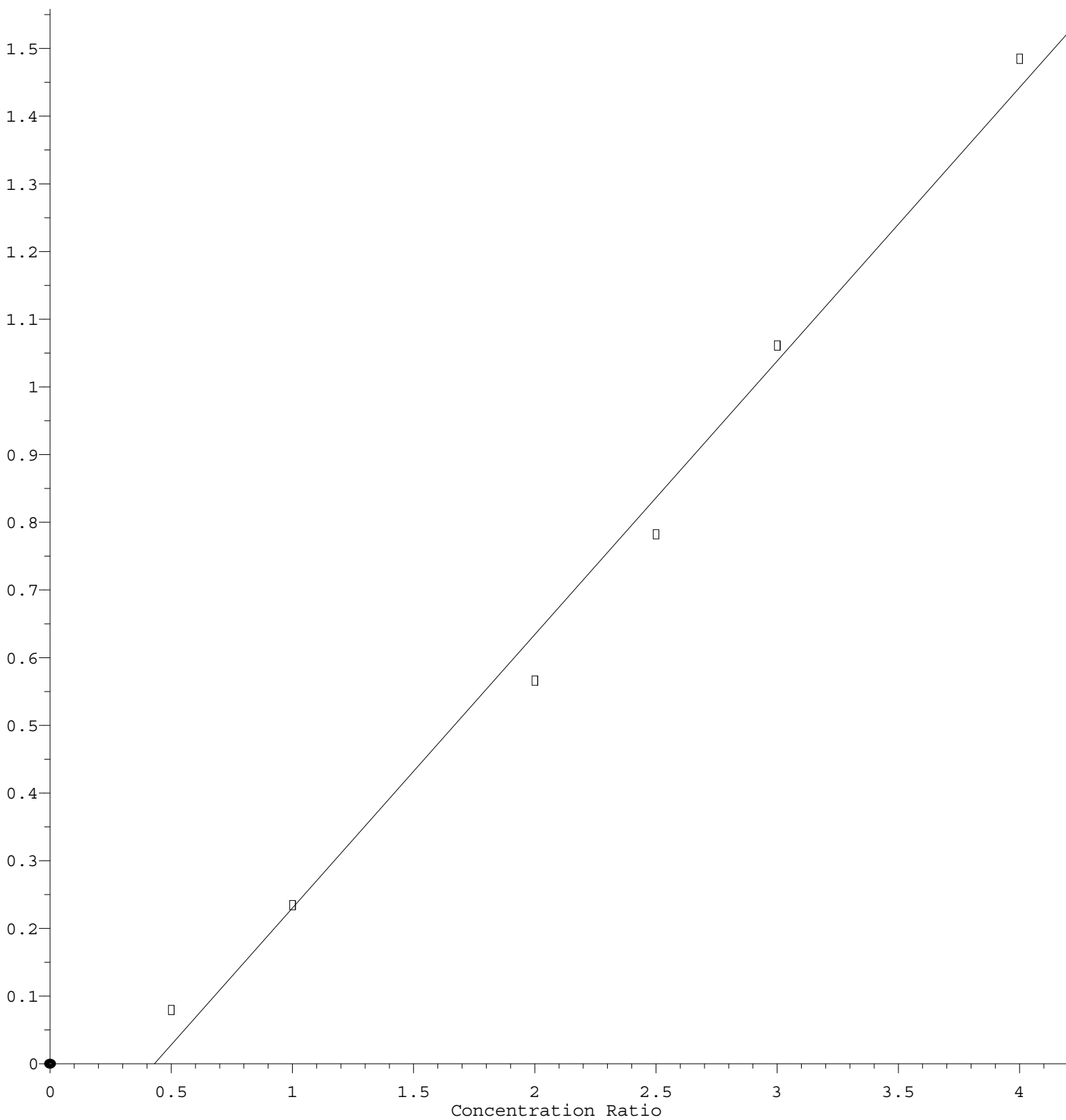
Atrazine



Response = 1.901e-001 * Amt - 3.826e-002
 Coef of Det (r^2) = 0.997759 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

3,3'-Dichlorobenzidine

Response Ratio



$$\text{Response} = 4.040\text{e-}001 * \text{Amt} - 1.741\text{e-}001$$

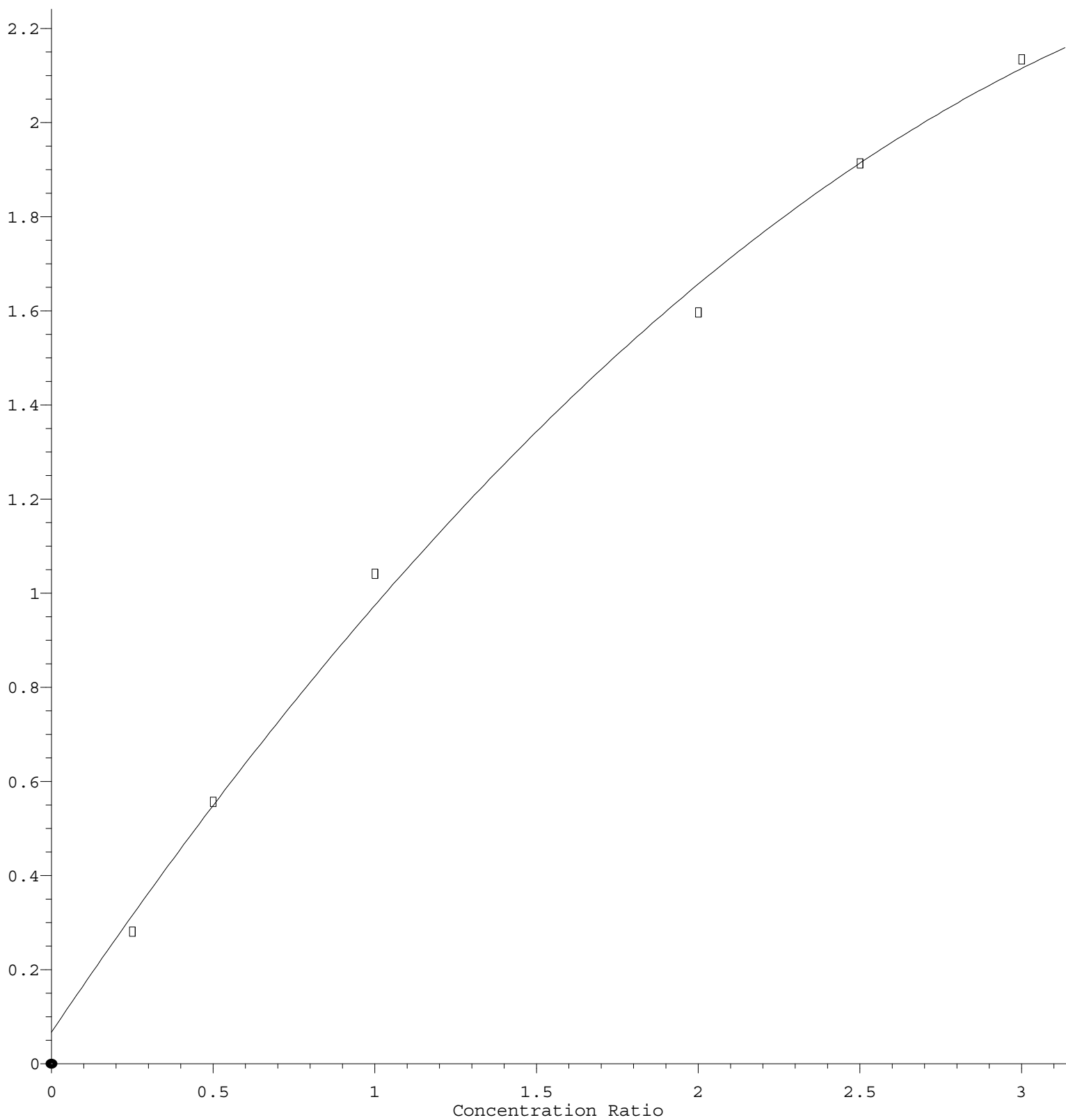
Coef of Det (r^2) = 0.990858 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M

Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

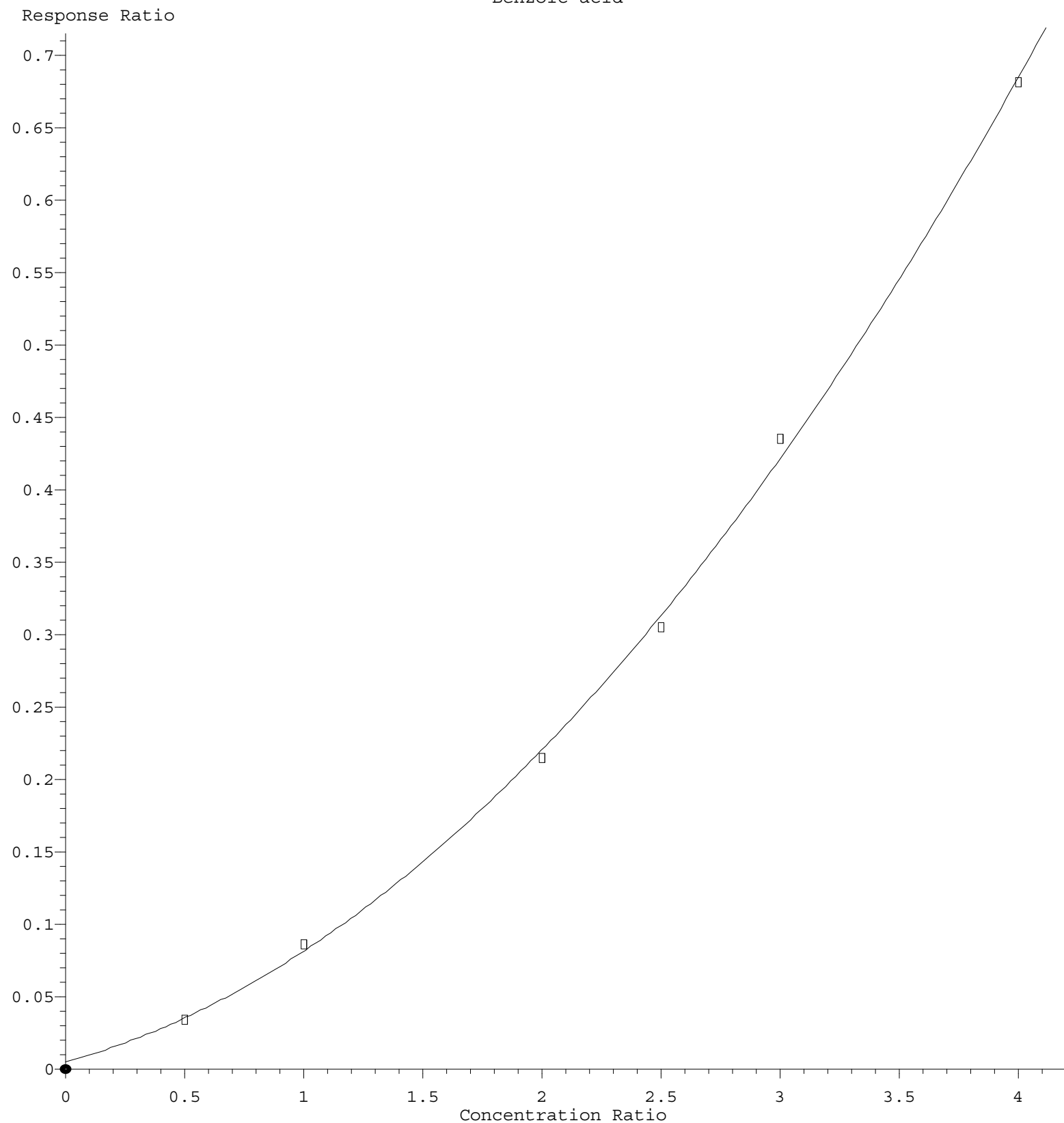
Benzaldehyde

Response Ratio



$R = -1.121e-001 A^2 + 1.019e+000 A + 6.719e-002$
Coef of Det (r^2) = 0.996533 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

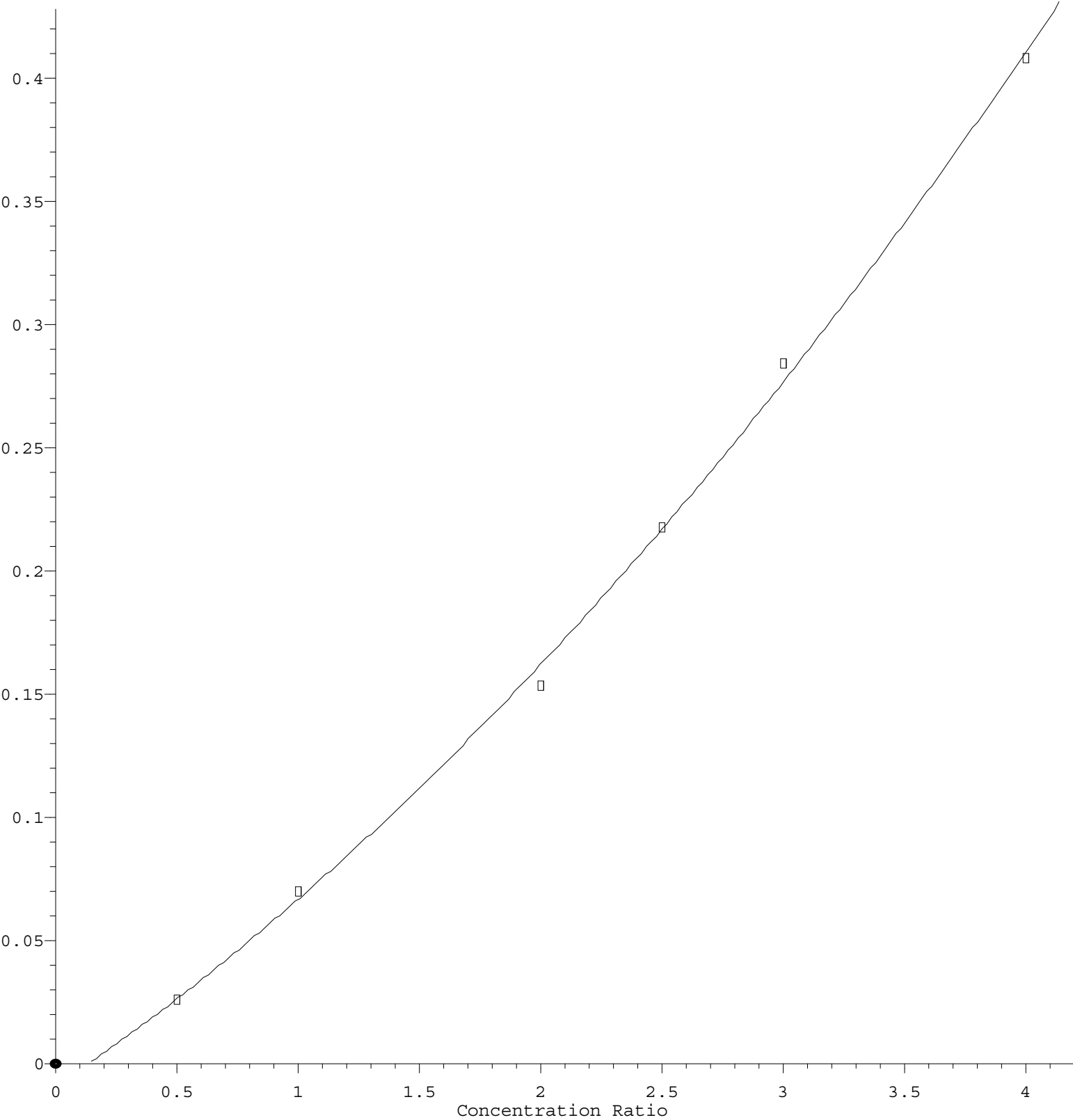
Benzoic acid



$R = 3.109e-002 A^2 + 4.565e-002 A + 4.763e-003$
 Coef of Det (r^2) = 0.998887 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

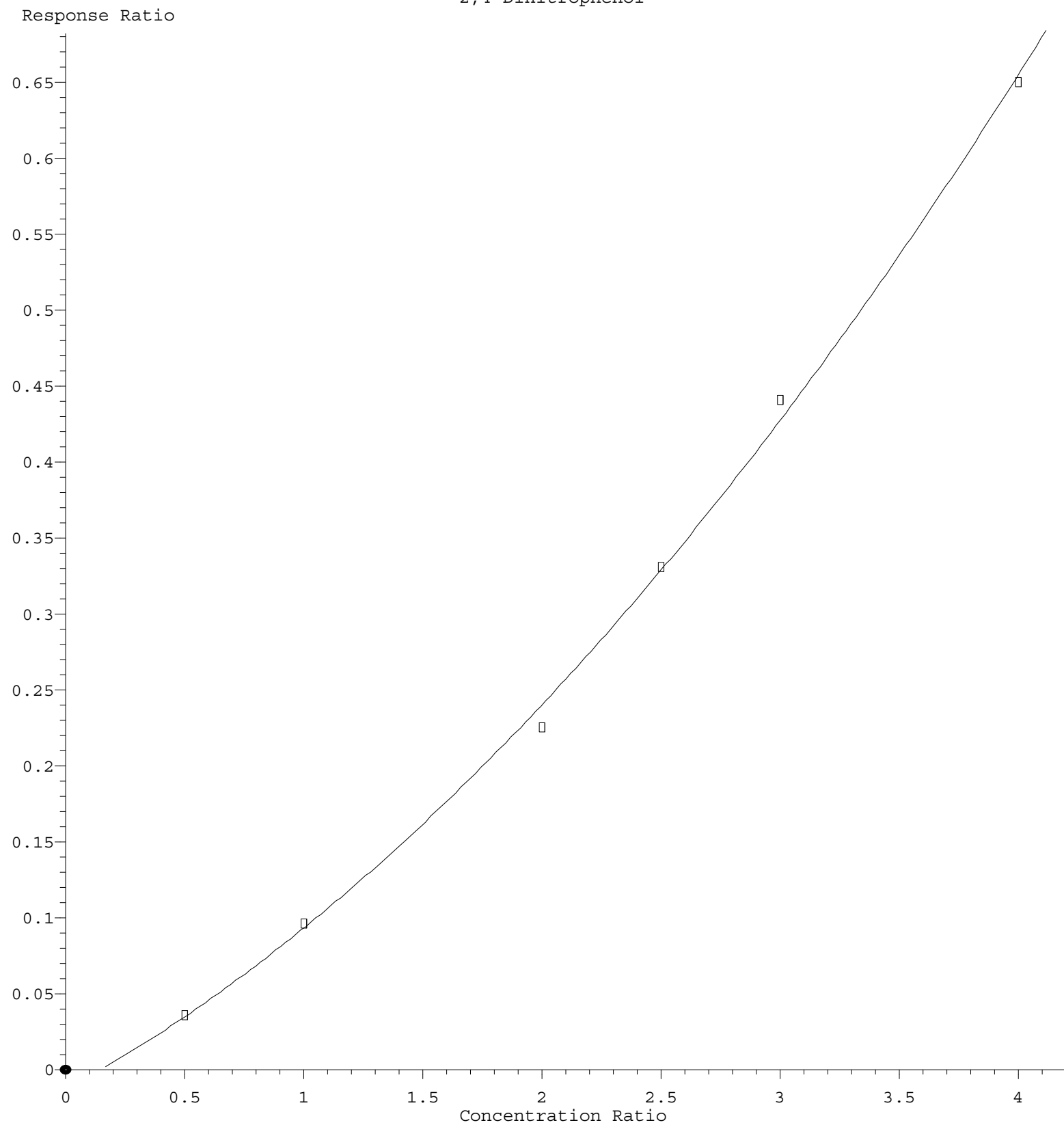
Caprolactam

Response Ratio



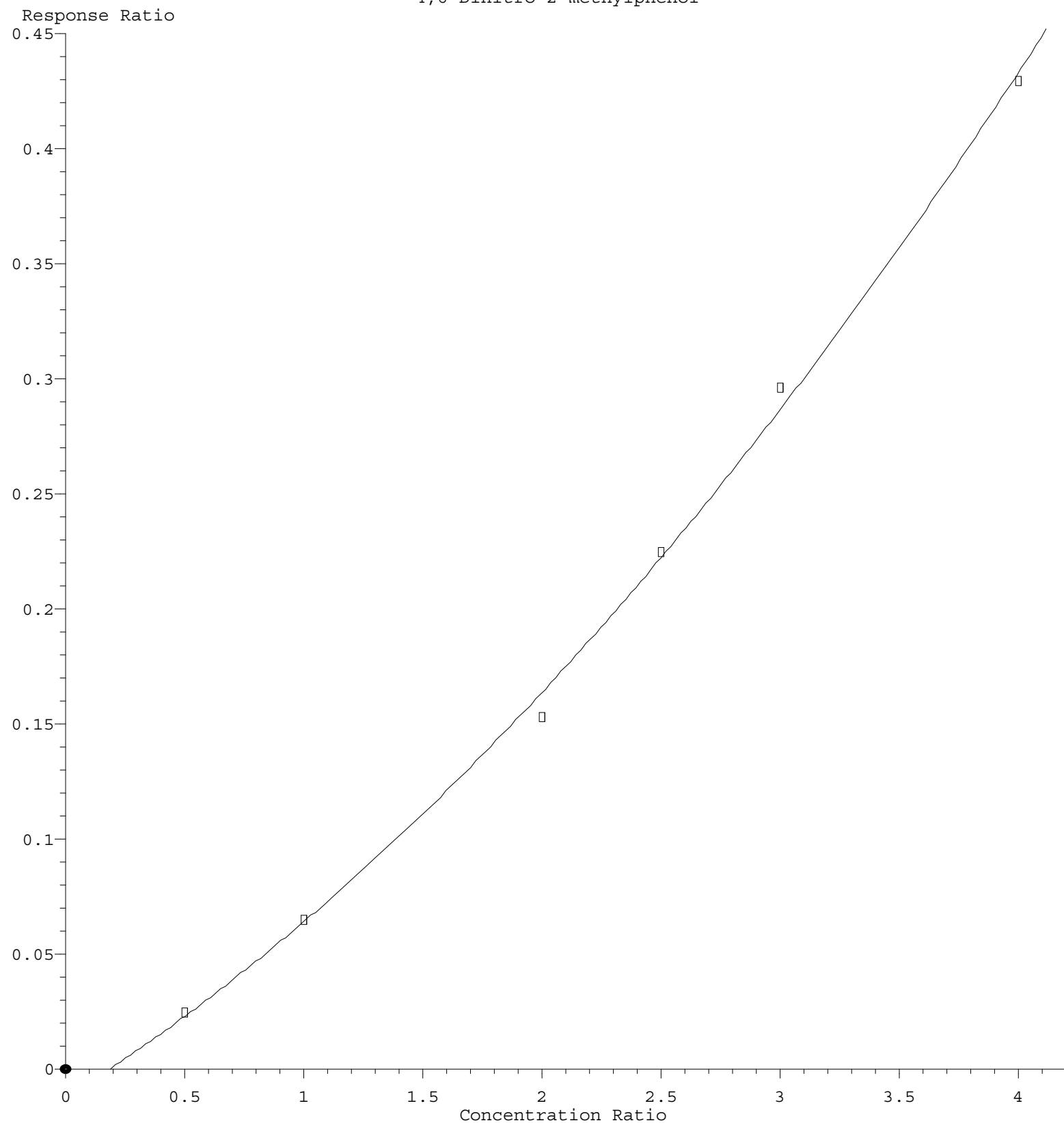
$R = 9.661e-003 A^2 + 6.634e-002 A - 9.278e-003$
 Coef of Det (r^2) = 0.998520 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

2,4-Dinitrophenol



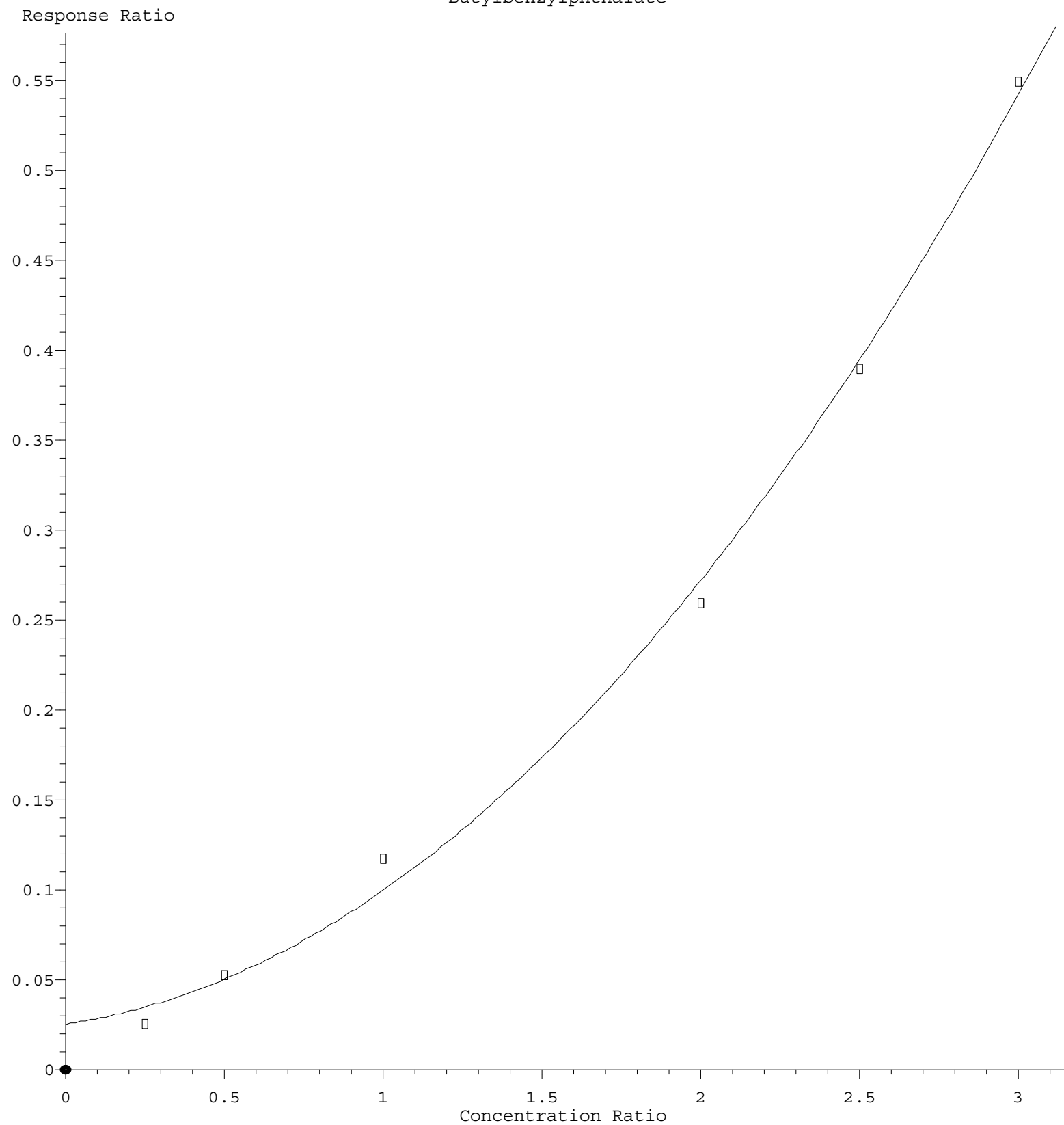
$R = 2.013e-002 A^2 + 8.660e-002 A - 1.353e-002$
 Coef of Det (r^2) = 0.998313 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

4,6-Dinitro-2-methylphenol



$R = 1.167e-002 A^2 + 6.464e-002 A - 1.230e-002$
 Coef of Det (r^2) = 0.998009 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

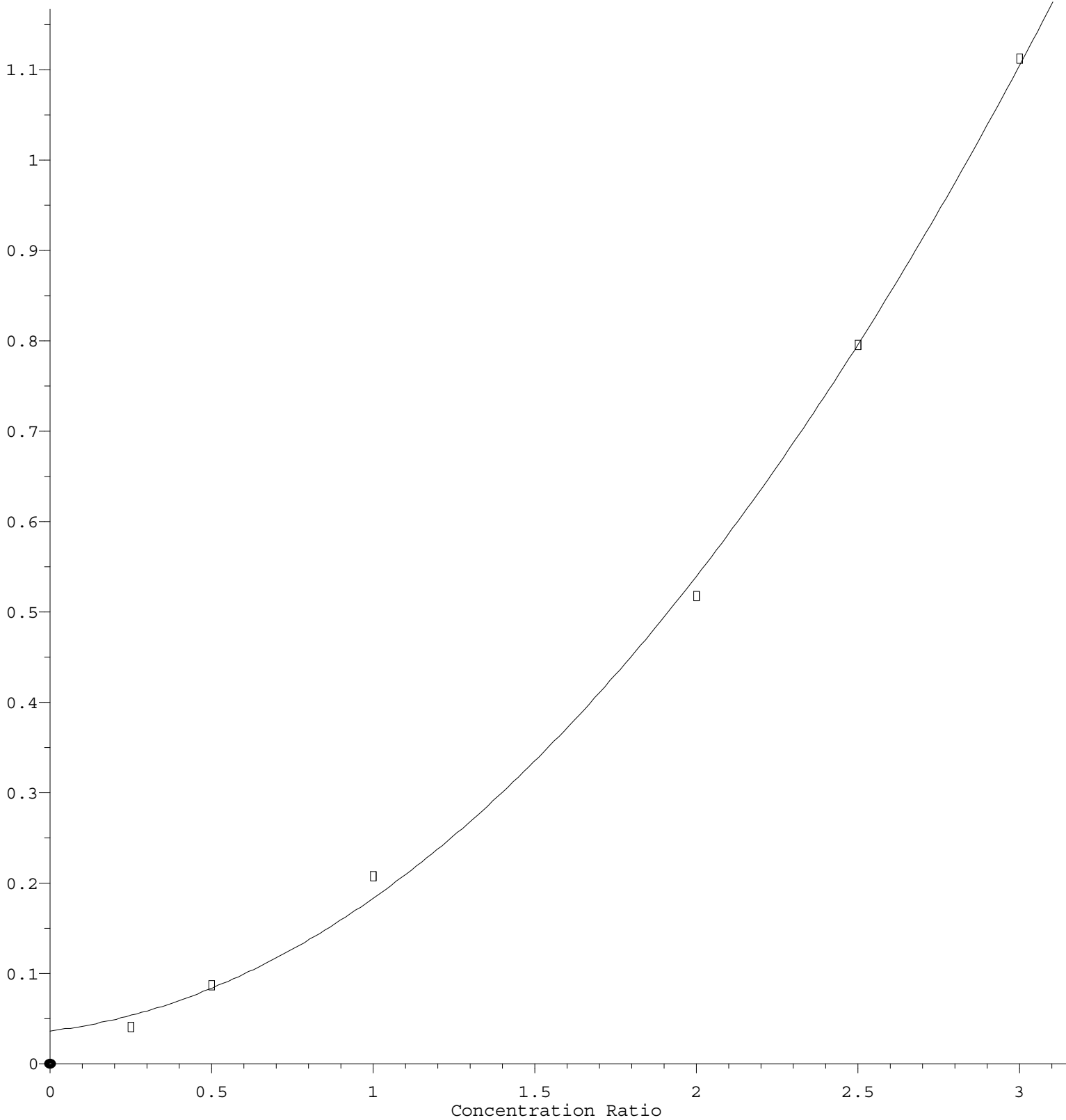
Butylbenzylphthalate



$R = 4.894e-002 A^2 + 2.537e-002 A + 2.540e-002$
 Coef of Det (r^2) = 0.997031 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

Bis(2-ethylhexyl)phthalate

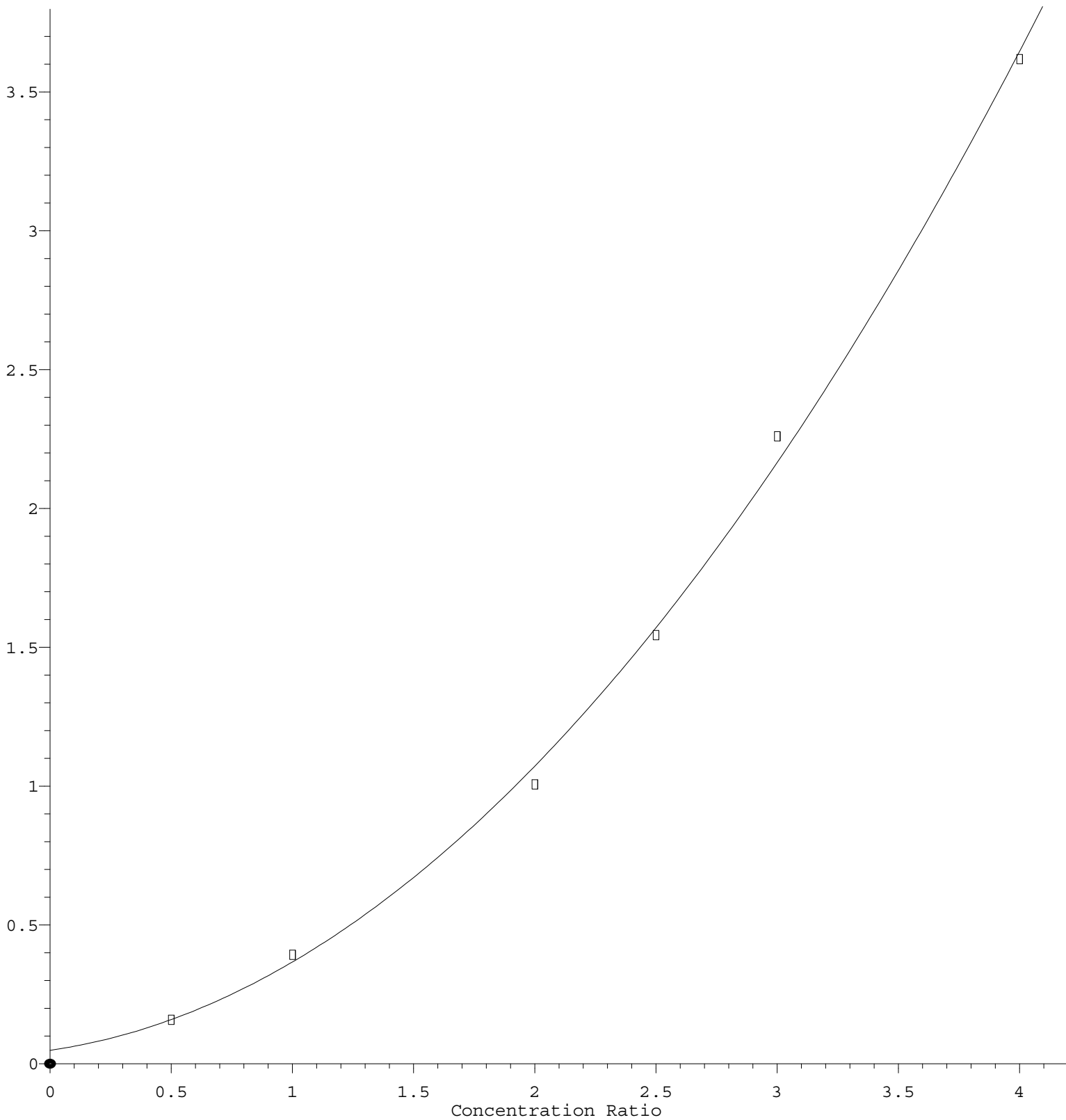
Response Ratio



$R = 1.047e-001 A^2 + 4.218e-002 A + 3.631e-002$
 Coef of Det (r^2) = 0.998589 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022

Di-n-octyl phthalate

Response Ratio



$R = 1.938e-001 A^2 + 1.240e-001 A + 4.844e-002$
 Coef of Det (r^2) = 0.998159 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112222.M
 Calibration Table Last Updated: Wed Nov 23 00:38:14 2022