

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP081324.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Aug 14 00:00:30 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BP021481.D 5 =BP021482.D 10 =BP021483.D 20 =BP021484.D 40 =BP021485.D 50 =BP021486.D 60 =BP021487.D 80 =BP021488.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.685	0.614	0.681	0.642	0.599	0.645	0.605	0.639	5.45	
3)	Pyridine	1.744	1.720	1.915	1.802	1.741	1.834	1.725	1.783	4.02	
4)	n-Nitrosodimet...	0.545	0.525	0.568	0.532	0.516	0.546	0.519	0.536	3.41	
5) S	2-Fluorophenol	1.332	1.286	1.405	1.348	1.324	1.401	1.333	1.347	3.18	
6)	Aniline	1.964	2.035	2.053	1.978	1.925	1.954	1.841	1.964	3.60	
7) S	Phenol-d6	1.897	1.960	2.062	1.978	1.953	1.998	1.905	1.965	2.87	
8)	2-Chlorophenol	1.199	1.221	1.291	1.250	1.236	1.285	1.232	1.245	2.68	
9)	Benzaldehyde	1.364	1.447	1.409	1.198	1.073	1.057		1.258	13.68	
10) C	Phenol	1.968	2.023	2.138	2.045	2.020	2.077	1.971	2.035	2.94	
11)	bis(2-Chloroet...	1.757	1.800	1.787	1.702	1.680	1.690	1.636	1.722	3.53	
12)	1,3-Dichlorobe...	1.579	1.479	1.546	1.452	1.422	1.467	1.404	1.479	4.29	
13) C	1,4-Dichlorobe...	1.571	1.514	1.553	1.475	1.435	1.491	1.413	1.493	3.89	
14)	1,2-Dichlorobe...	1.523	1.475	1.513	1.410	1.377	1.416	1.356	1.439	4.57	
15)	Benzyl Alcohol	1.306	1.454	1.474	1.415	1.417	1.437	1.365	1.410	4.07	
16)	2,2'-oxybis(1-...	1.639	1.716	1.642	1.546	1.549	1.532	1.474	1.585	5.23	
17)	2-Methylphenol	1.257	1.313	1.350	1.290	1.277	1.288	1.230	1.286	2.99	
18)	Hexachloroethane	0.599	0.590	0.617	0.594	0.587	0.614	0.590	0.599	2.04	
19) P	n-Nitroso-di-n...	1.329	1.436	1.555	1.433	1.340	1.308	1.271	1.185	1.357	8.44
20)	3+4-Methylphenols		1.595	1.820	1.795	1.758	1.734	1.769	1.670	1.734	4.49
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.636	0.621	0.643	0.612	0.591	0.609	0.590	0.614	3.32	
23) S	Nitrobenzene-d5	0.300	0.339	0.386	0.410	0.412	0.436	0.430	0.387	13.07	
24)	Nitrobenzene	0.338	0.385	0.430	0.443	0.435	0.460	0.454	0.421	10.43	
25)	Isophorone	0.947	0.970	0.951	0.913	0.877	0.886	0.864	0.915	4.51	
26) C	2-Nitrophenol	0.054	0.063	0.076	0.094	0.107	0.120		0.086	30.30#	
27)	2,4-Dimethylph...	0.218	0.225	0.232	0.225	0.221	0.233	0.227	0.226	2.34	
28)	bis(2-Chloroet...	0.577	0.574	0.572	0.549	0.542	0.554	0.543	0.559	2.72	
29) C	2,4-Dichloroph...	0.226	0.249	0.270	0.273	0.275	0.288	0.288	0.267	8.43	
30)	1,2,4-Trichlor...	0.355	0.332	0.347	0.340	0.331	0.349	0.343	0.342	2.61	
31)	Naphthalene	1.084	1.041	1.074	1.041	1.002	1.046	1.026	1.045	2.65	
32)	Benzoic acid		0.082	0.104	0.129	0.151	0.168	0.187	0.137	29.06	
33)	4-Chloroaniline	0.394	0.403	0.406	0.395	0.379	0.389	0.381	0.392	2.58	
34) C	Hexachlorobuta...	0.217	0.213	0.218	0.215	0.210	0.219	0.217	0.215	1.50	
35)	Caprolactam	0.099	0.115	0.118	0.114	0.109	0.113	0.110	0.111	5.44	
36) C	4-Chloro-3-met...	0.332	0.375	0.382	0.383	0.370	0.378	0.372	0.370	4.74	
37)	2-Methylnaphth...	0.747	0.742	0.730	0.705	0.683	0.701	0.683	0.713	3.75	
38)	1-Methylnaphth...	0.742	0.735	0.725	0.697	0.673	0.685	0.666	0.703	4.37	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP081324.M

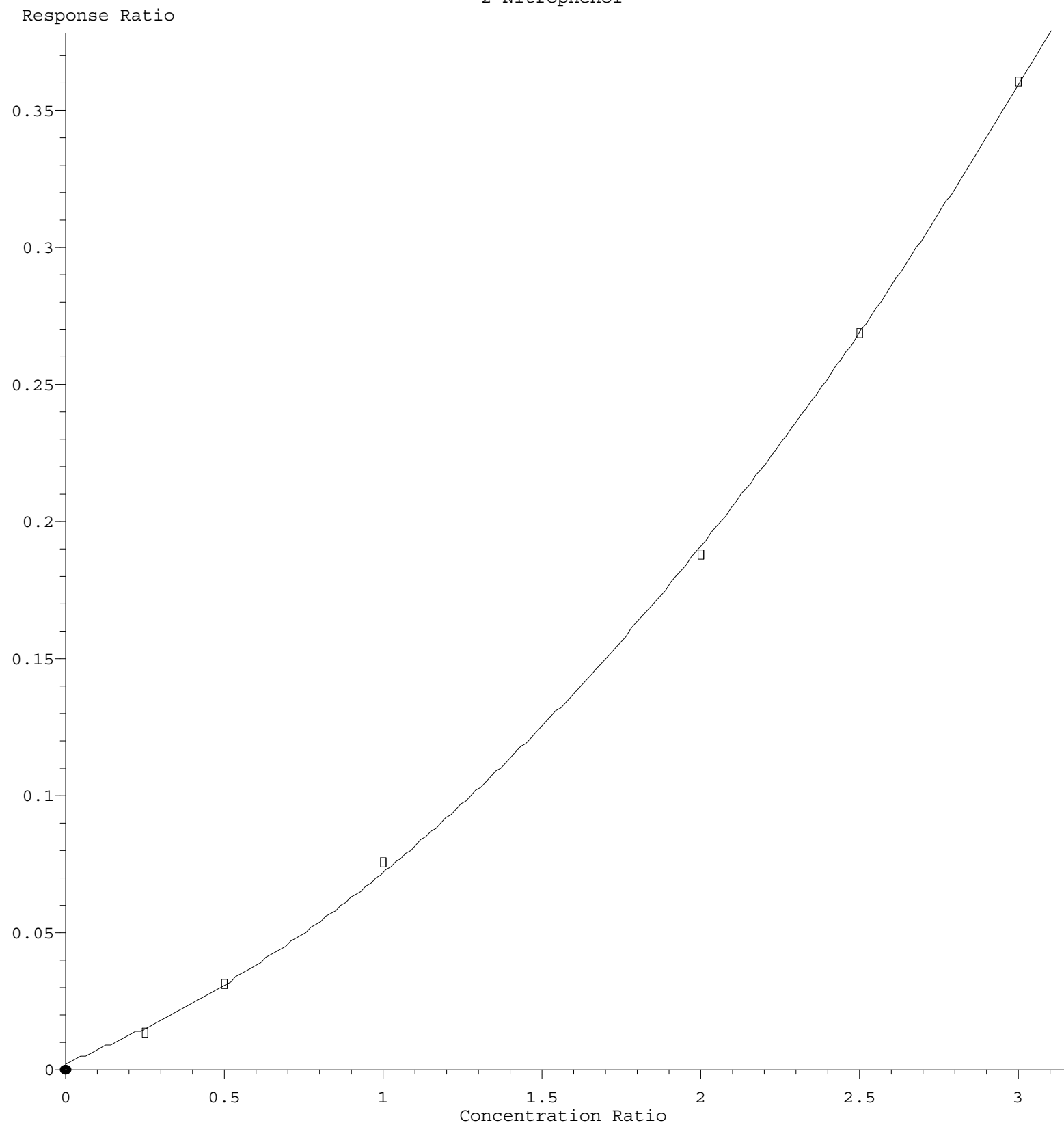
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.574	0.543	0.592	0.595	0.578	0.616	0.604	0.586	4.05	
41) P	Hexachlorocycl...	0.159	0.153	0.174	0.192	0.195	0.214	0.214	0.186	13.17	
42) S	2,4,6-Tribromo...	0.179	0.204	0.222	0.236	0.231	0.245	0.240	0.223	10.47	
43) C	2,4,6-Trichlor...	0.261	0.284	0.318	0.343	0.339	0.367	0.367	0.326	12.49	
44)	2,4,5-Trichlor...	0.284	0.316	0.360	0.382	0.378	0.408	0.404	0.362	12.72	
45) S	2-Fluorobiphenyl	1.371	1.314	1.335	1.327	1.264	1.309	1.253	1.310	3.12	
46)	1,1'-Biphenyl	1.462	1.400	1.434	1.428	1.362	1.433	1.386	1.415	2.40	
47)	2-Chloronaphth...	1.121	1.075	1.117	1.116	1.065	1.129	1.088	1.102	2.30	
48)	2-Nitroaniline	0.146	0.181	0.231	0.285	0.294	0.329	0.328	0.256	28.08	
49)	Acenaphthylene	1.660	1.610	1.657	1.645	1.561	1.633	1.570	1.619	2.51	
50)	Dimethylphthalate	1.387	1.365	1.369	1.352	1.276	1.340	1.287	1.339	3.17	
51)	2,6-Dinitrotol...	0.129	0.187	0.227	0.255	0.261	0.282	0.283	0.232	24.32	
52) C	Acenaphthene	1.094	1.058	1.074	1.073	1.023	1.072	1.042	1.063	2.23	
53)	3-Nitroaniline	0.127	0.185	0.221	0.254	0.254	0.279	0.277	0.228	24.33	
54) P	2,4-Dinitrophenol		0.045	0.052	0.066	0.073	0.085	0.093	0.069	27.01	
55)	Dibenzofuran	1.735	1.637	1.677	1.649	1.563	1.607	1.575	1.635	3.67	
56) P	4-Nitrophenol		0.141	0.177	0.202	0.201	0.225	0.223	0.195	16.26	
57)	2,4-Dinitrotol...	0.140	0.214	0.262	0.320	0.328	0.362	0.365	0.284	29.47	
58)	Fluorene	1.431	1.400	1.408	1.354	1.260	1.315	1.233	1.343	5.70	
59)	2,3,4,6-Tetrac...	0.250	0.278	0.302	0.328	0.317	0.340	0.333	0.307	10.67	
60)	Diethylphthalate	1.405	1.395	1.427	1.397	1.318	1.368	1.310	1.374	3.26	
61)	4-Chlorophenyl...	0.741	0.724	0.718	0.695	0.656	0.680	0.644	0.694	5.19	
62)	4-Nitroaniline	0.148	0.198	0.242	0.273	0.262	0.288	0.278	0.241	21.07	
63)	Azobenzene	1.797	1.779	1.778	1.714	1.555	1.648	1.555	1.689	6.21	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.031	0.039	0.052	0.060	0.069	0.075	0.054	30.94	
66) c	n-Nitrosodiphe...	0.534	0.541	0.549	0.538	0.523	0.534	0.531	0.536	1.52	
67)	4-Bromophenyl-...	0.211	0.210	0.212	0.207	0.210	0.215	0.216	0.212	1.39	
68)	Hexachlorobenzene	0.255	0.249	0.250	0.252	0.245	0.252	0.248	0.250	1.32	
69)	Atrazine	0.181	0.186	0.196	0.191	0.179	0.182	0.174	0.184	4.00	
70) C	Pentachlorophenol		0.108	0.125	0.137	0.143	0.151	0.156	0.137	13.07	
71)	Phenanthrene	0.990	0.963	0.998	0.965	0.932	0.952	0.932	0.962	2.71	
72)	Anthracene	0.954	0.955	0.970	0.950	0.915	0.943	0.915	0.943	2.21	
73)	Carbazole	0.908	0.906	0.941	0.930	0.873	0.913	0.892	0.909	2.49	
74)	Di-n-butylphth...	1.049	1.065	1.149	1.149	1.133	1.144	1.126	1.116	3.75	
75) C	Fluoranthene	1.215	1.153	1.233	1.200	1.137	1.179	1.144	1.180	3.17	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine		0.297	0.451	0.477	0.476	0.408	0.409	0.420	16.09	
78)	Pyrene	1.283	1.470	1.295	1.290	1.262	1.270	1.282	1.307	5.55	
79) S	Terphenyl-d14	1.069	1.196	1.034	1.006	0.973	0.994	0.935	1.029	8.24	
80)	Butylbenzylphth...	0.298	0.365	0.411	0.470	0.489	0.508	0.519	0.437	18.83	
81)	Benzo(a)anthra...	1.271	1.247	1.291	1.268	1.224	1.244	1.242	1.256	1.79	
82)	3,3'-Dichlorob...	0.349	0.358	0.413	0.428	0.419	0.429	0.422	0.403	8.47	
83)	Chrysene	1.213	1.180	1.205	1.197	1.151	1.182	1.169	1.185	1.81	
84)	Bis(2-ethylhex...	0.607	0.635	0.741	0.781	0.804	0.800	0.826	0.742	11.70	
85) c	Di-n-octyl pht...		0.839	1.115	1.247	1.285	1.332	1.376	1.199	16.51	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP081324.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.244	1.156	1.317	1.327	1.297	1.384	1.350	1.296	5.84
88)	Benzo(b)fluora...	1.106	1.152	1.158	1.155	1.119	1.189	1.163	1.149	2.42
89)	Benzo(k)fluora...	1.115	1.101	1.124	1.141	1.103	1.150	1.110	1.121	1.69
90) C	Benzo(a)pyrene	0.953	0.953	1.003	1.012	0.996	1.040	1.019	0.997	3.28
91)	Dibenzo(a,h)an...	1.034	0.965	1.106	1.102	1.080	1.144	1.109	1.077	5.54
92)	Benzo(g,h,i)pe...	1.052	0.955	1.096	1.102	1.074	1.151	1.128	1.080	5.91

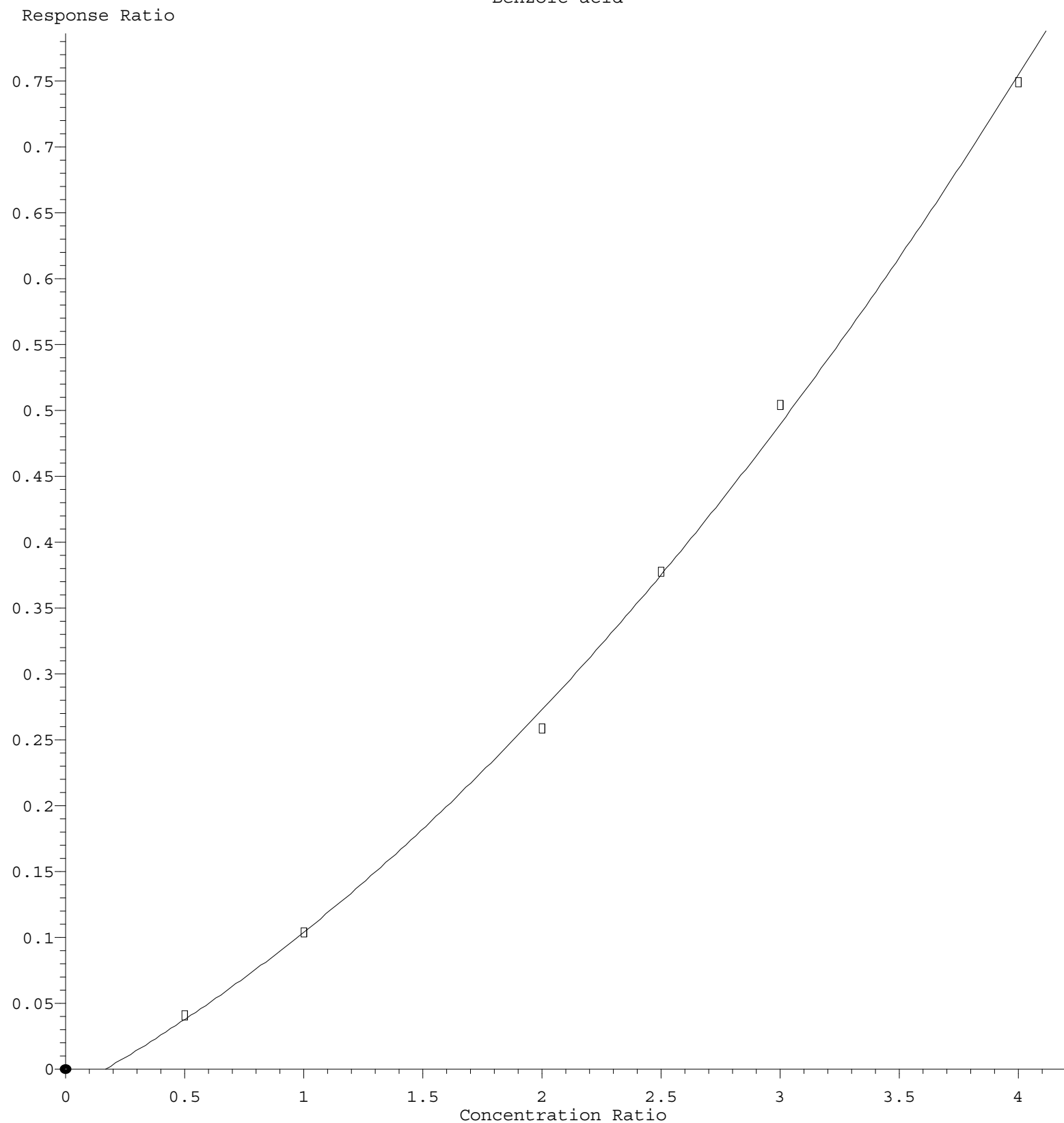
(#) = Out of Range

2-Nitrophenol



$R = 2.470e-002 A^2 + 4.486e-002 A + 2.459e-003$
 Coef of Det (r^2) = 0.999726 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M
 Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

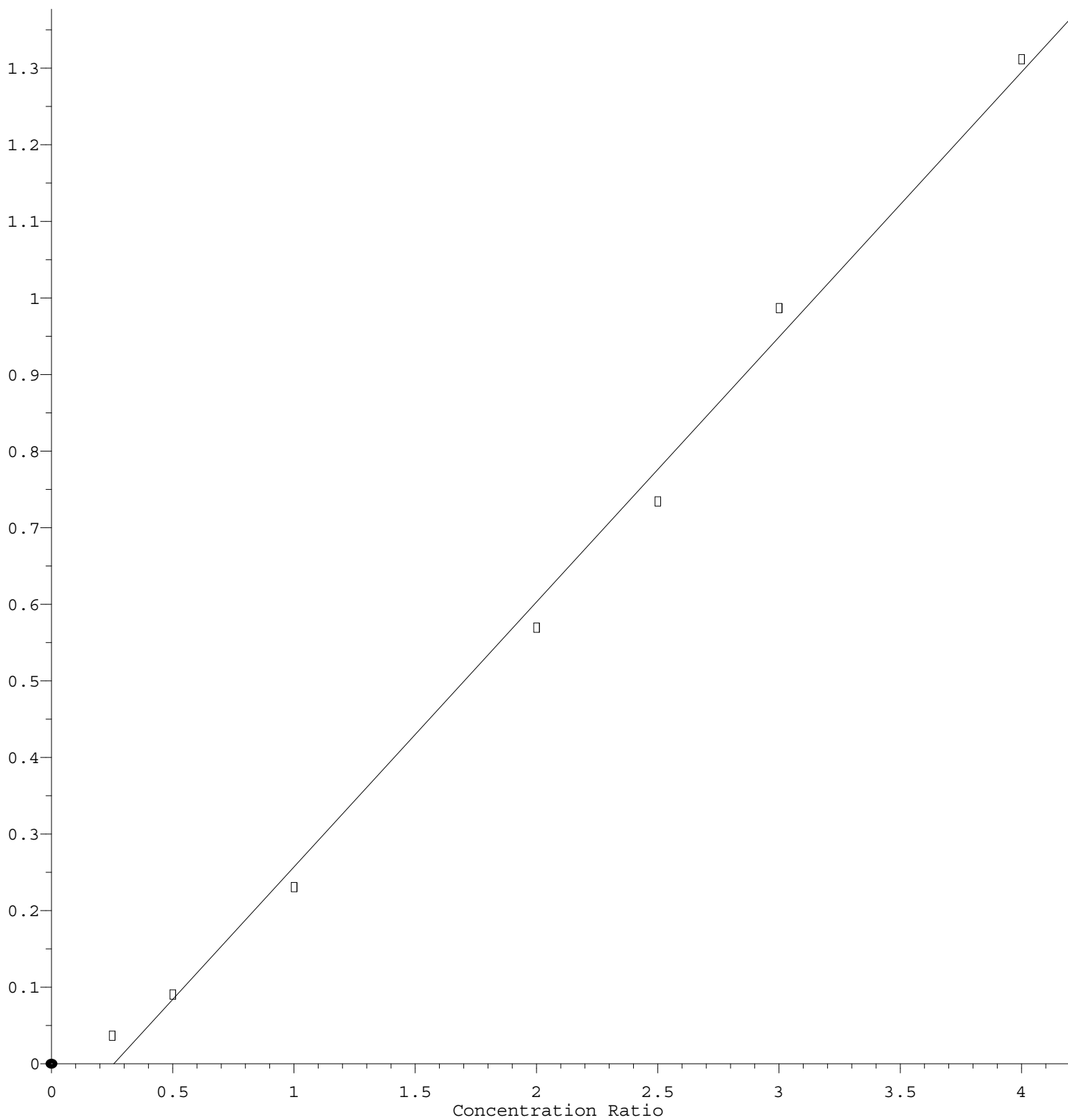
Benzoic acid



$R = 2.404e-002 A^2 + 9.668e-002 A - 1.670e-002$
 Coef of Det (r^2) = 0.998683 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M
 Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

2-Nitroaniline

Response Ratio



$$\text{Response} = 3.458\text{e-}001 * \text{Amt} - 8.901\text{e-}002$$

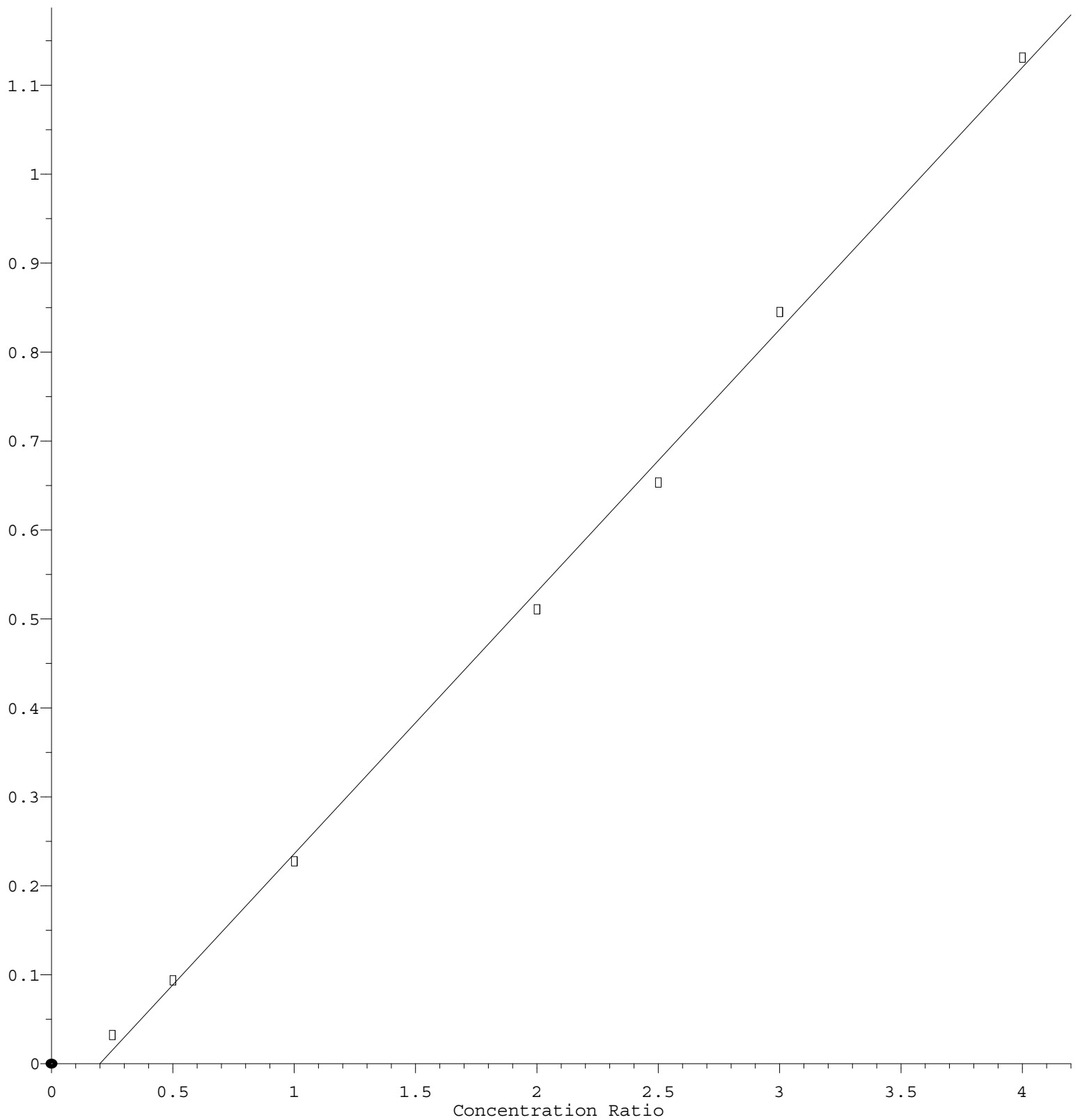
Coef of Det (r^2) = 0.995042 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M

Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.947\text{e-}001 * \text{Amt} - 5.872\text{e-}002$$

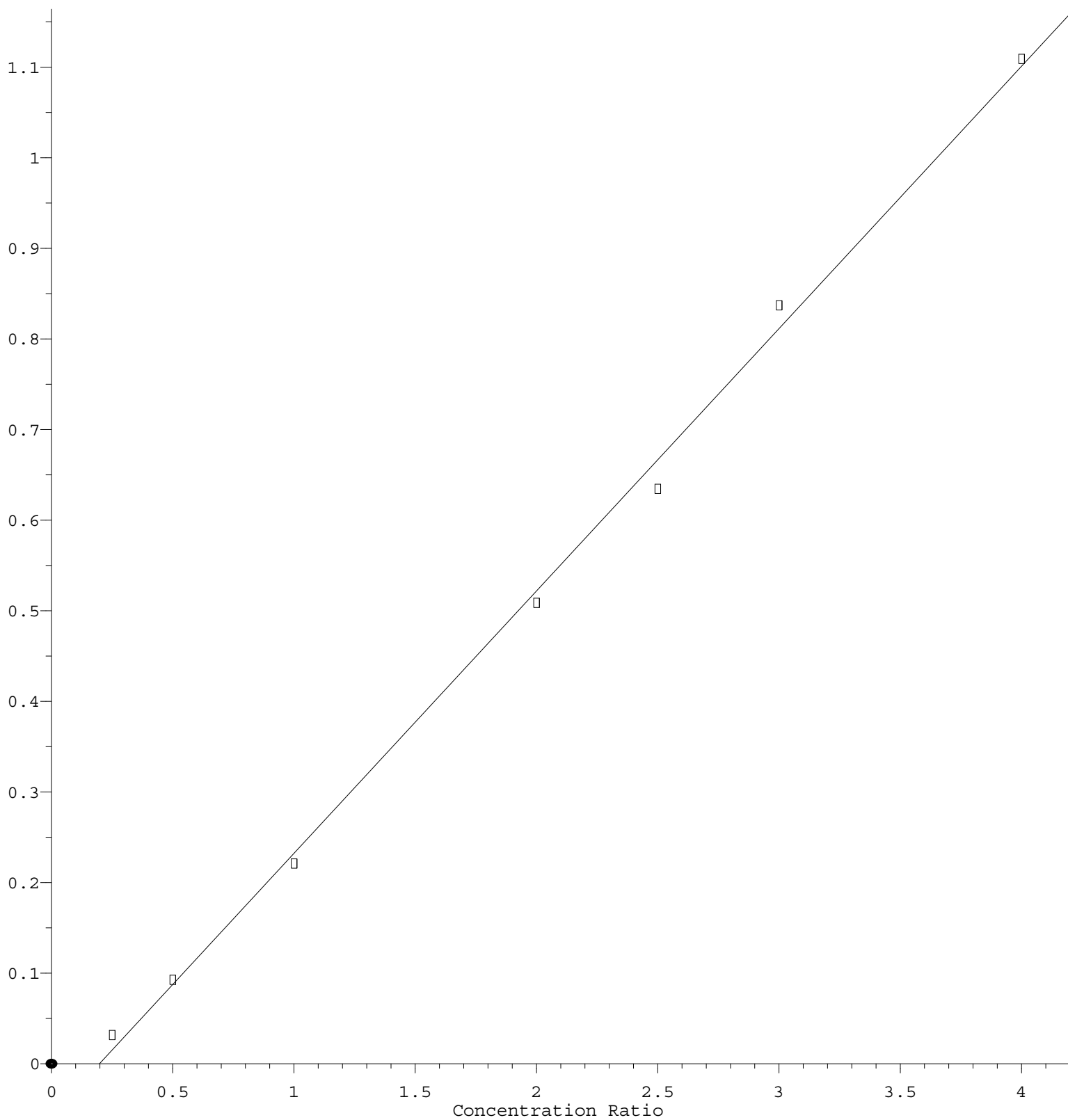
Coef of Det (r^2) = 0.998093 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M

Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

3-Nitroaniline

Response Ratio



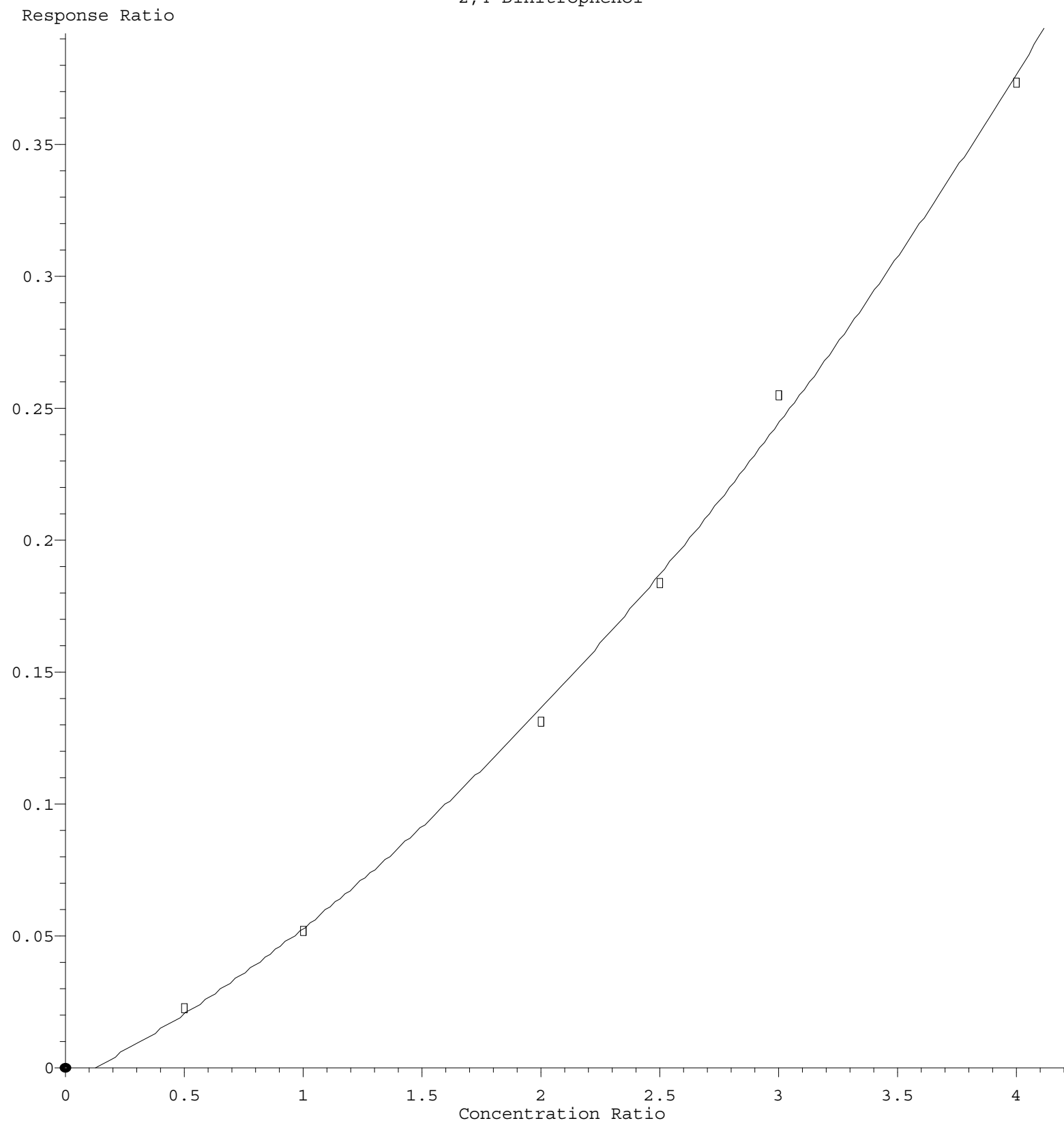
$$\text{Response} = 2.896\text{e-}001 * \text{Amt} - 5.747\text{e-}002$$

Coef of Det (r^2) = 0.997556 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M

Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

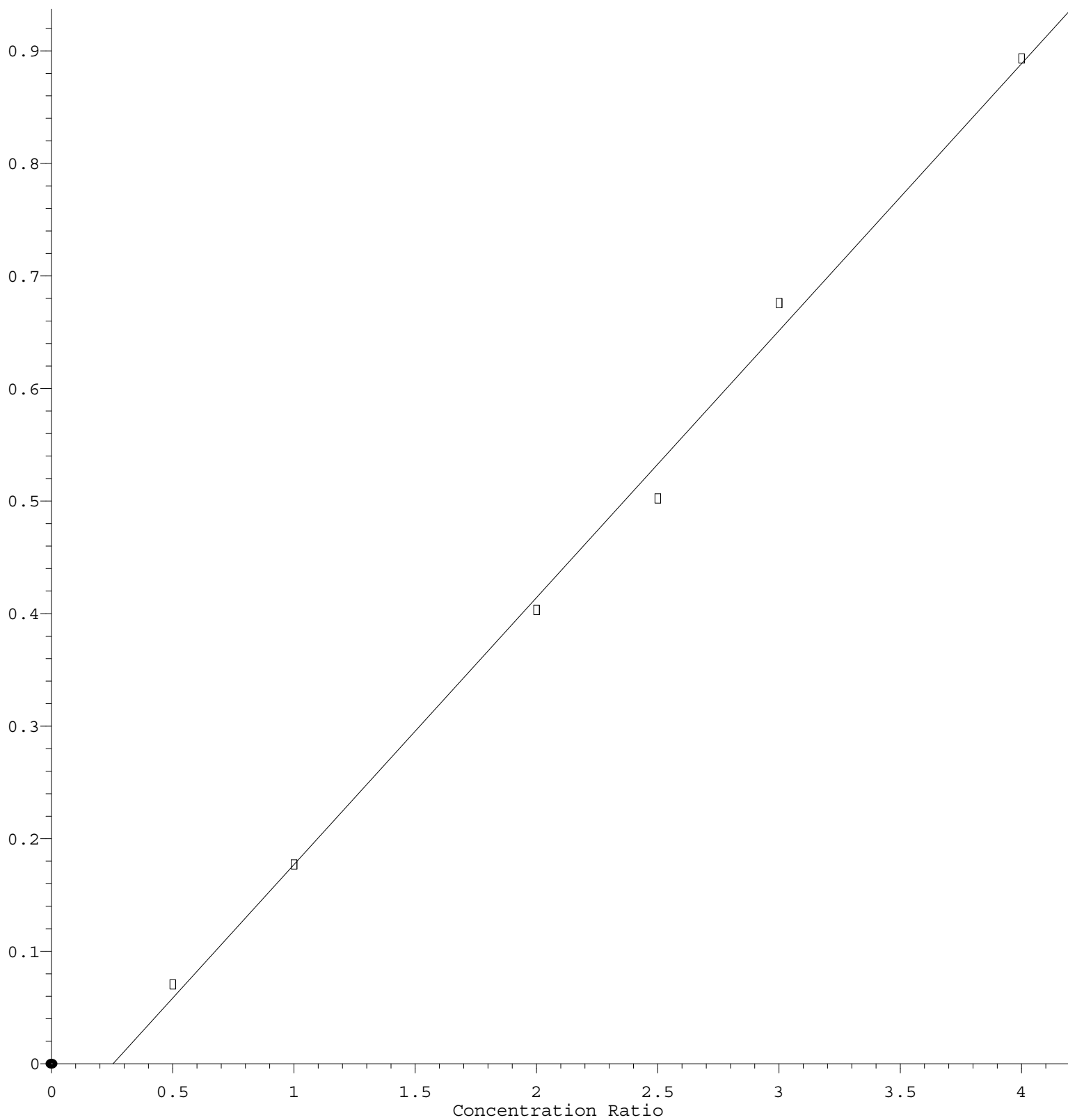
2,4-Dinitrophenol



$R = 1.232e-002 A^2 + 4.639e-002 A - 5.819e-003$
 Coef of Det (r^2) = 0.998040 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M
 Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

4-Nitrophenol

Response Ratio



$$\text{Response} = 2.372\text{e-}001 * \text{Amt} - 6.023\text{e-}002$$

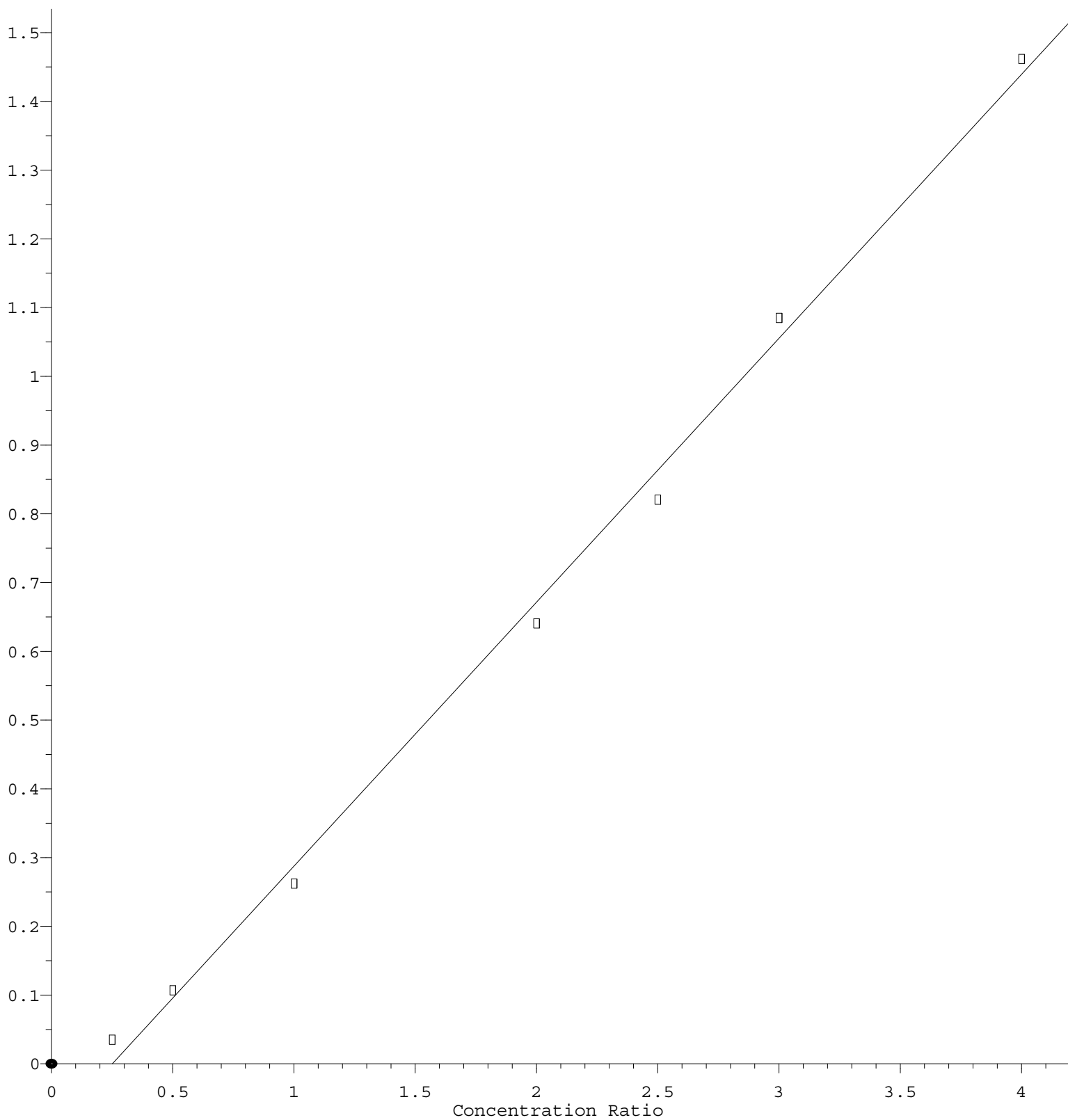
Coef of Det (r^2) = 0.996132 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M

Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.838\text{e-}001 * \text{Amt} - 9.639\text{e-}002$$

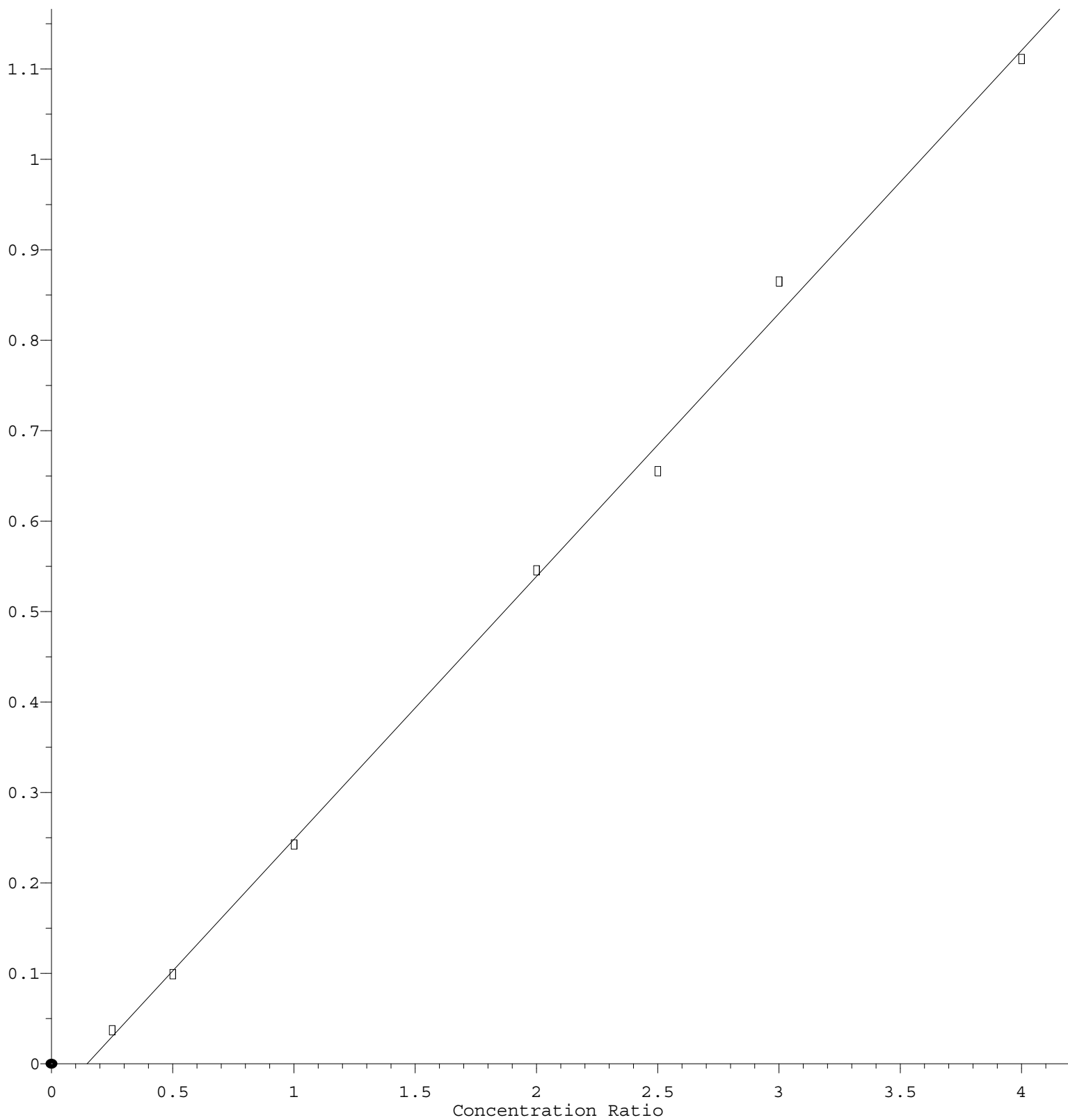
Coef of Det (r^2) = 0.996361 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M

Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

4-Nitroaniline

Response Ratio



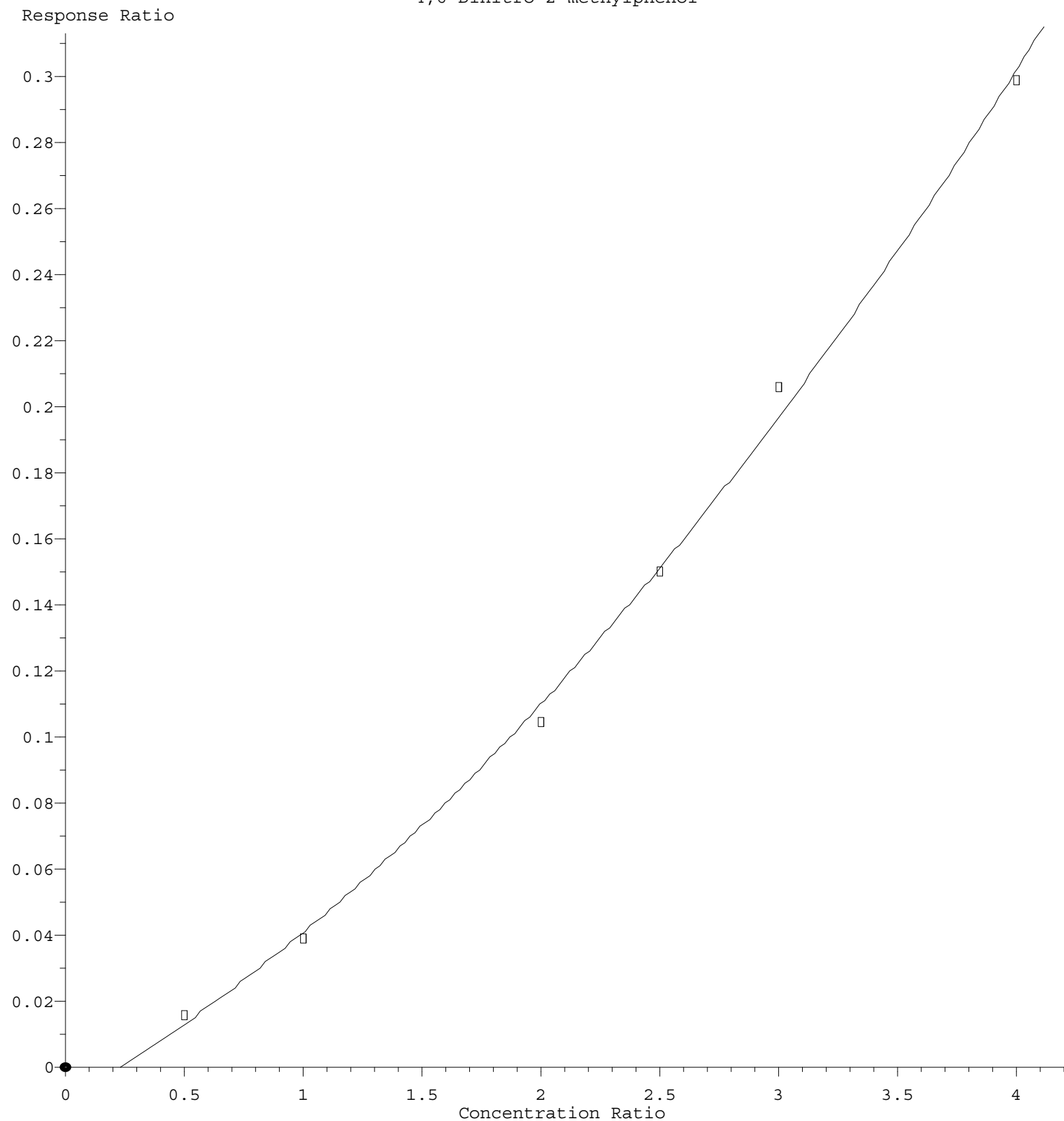
$$\text{Response} = 2.908\text{e-}001 * \text{Amt} - 4.268\text{e-}002$$

Coef of Det (r^2) = 0.997620 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M

Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

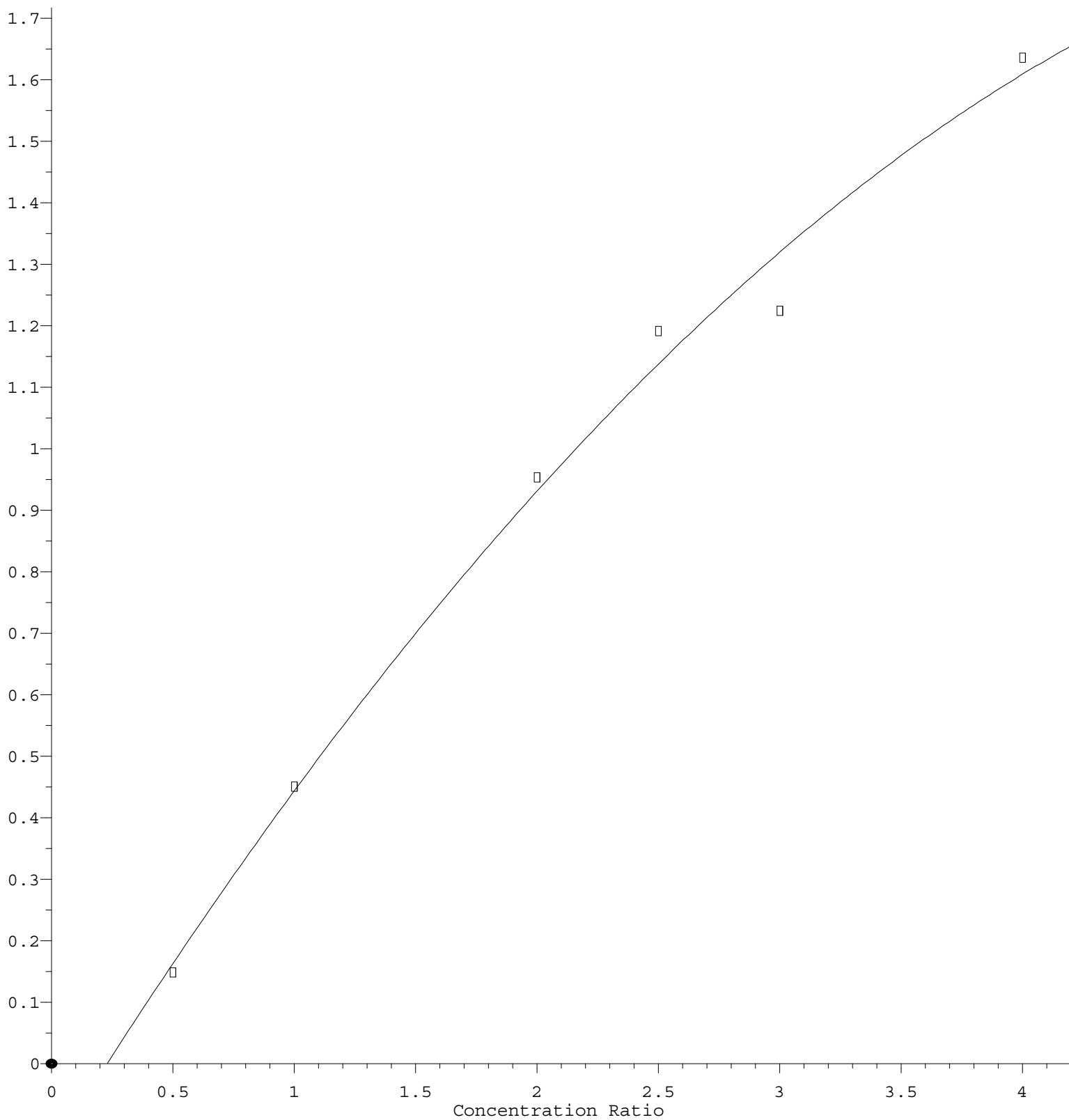
4,6-Dinitro-2-methylphenol



$R = 8.998e-003 A^2 + 4.205e-002 A - 1.016e-002$
 Coef of Det (r^2) = 0.997680 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M
 Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

Benzidine

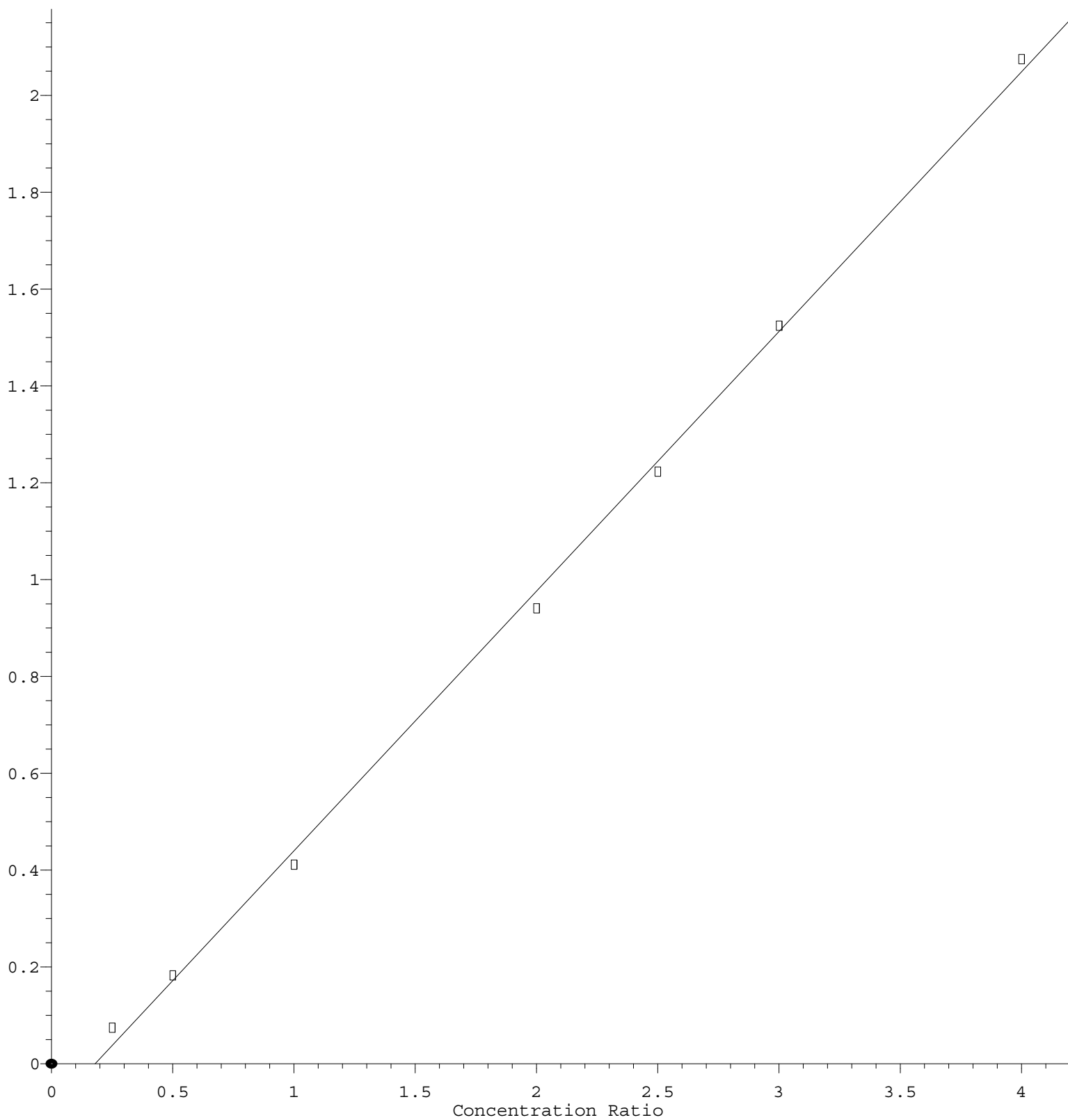
Response Ratio



$R = -4.950e-002 A^2 + 6.359e-001 A - 1.428e-001$
Coef of Det (r^2) = 0.991038 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M
Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

Butylbenzylphthalate

Response Ratio



$$\text{Response} = 5.364\text{e-}001 * \text{Amt} - 9.662\text{e-}002$$

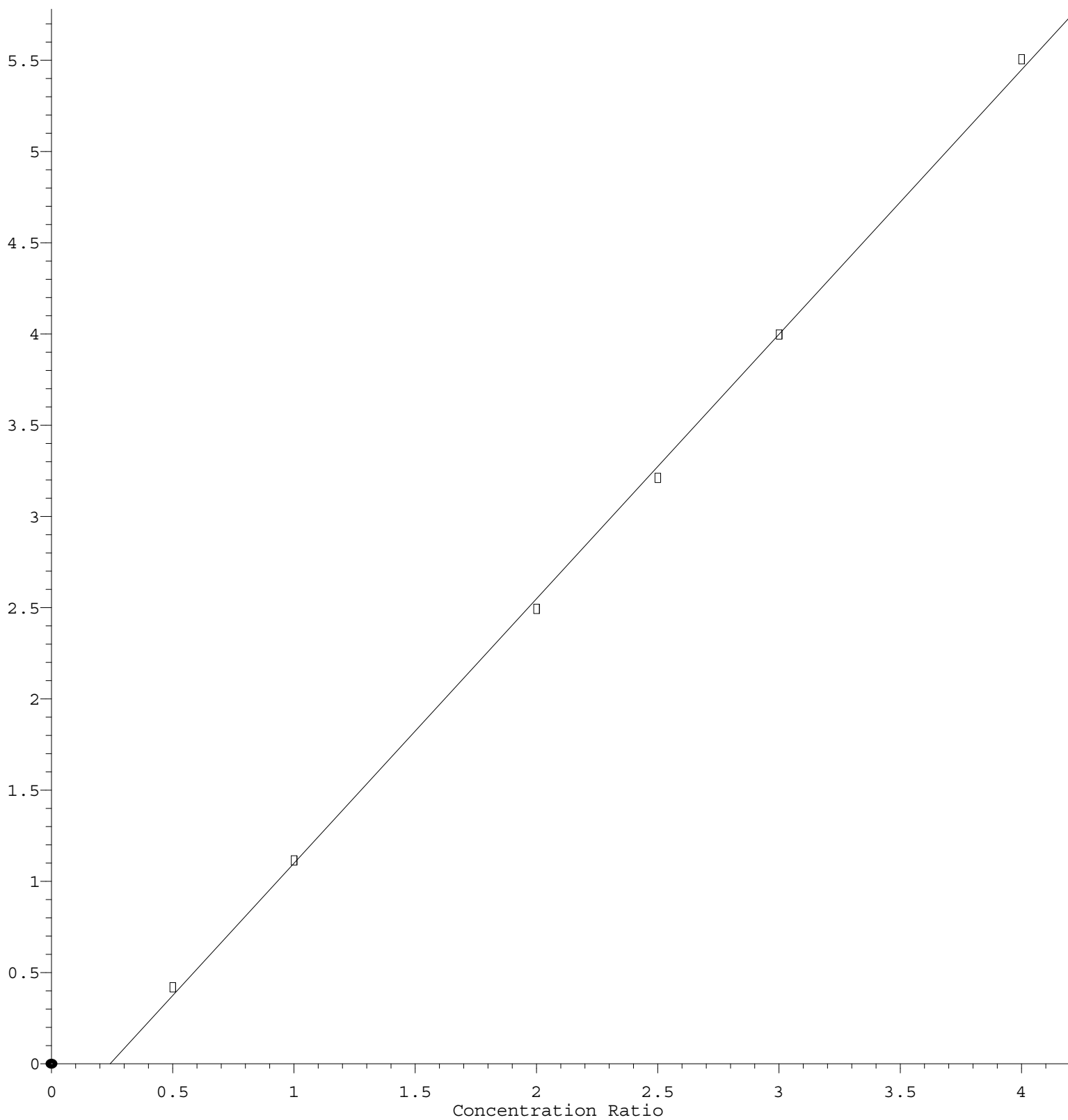
Coef of Det (r^2) = 0.998537 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M

Calibration Table Last Updated: Wed Aug 14 00:00:30 2024

Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.450\text{e}+000 * \text{Amt} - 3.505\text{e}-001$$

Coef of Det (r^2) = 0.999286 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP081324.M

Calibration Table Last Updated: Wed Aug 14 00:00:30 2024