

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP051325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue May 13 16:21:39 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BP024614.D 5 =BP024615.D 10 =BP024616.D 20 =BP024617.D 40 =BP024618.D 50 =BP024619.D 60 =BP024620.D 80 =BP024621.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.641	0.557	0.535	0.505	0.562	0.530	0.513	0.549	8.31	
3)	Pyridine	1.054	1.135	1.202	1.198	1.363	1.307	1.263	1.218	8.57	
4)	n-Nitrosodimet...	0.536	0.507	0.527	0.517	0.580	0.557	0.537	0.538	4.61	
5) S	2-Fluorophenol	1.134	1.096	1.162	1.105	1.272	1.223	1.193	1.169	5.50	
6)	Aniline	1.717	1.703	1.932	1.917	2.130	2.091	1.999	1.927	8.67	
7) S	Phenol-d6	1.301	1.344	1.486	1.472	1.671	1.620	1.552	1.492	9.09	
8)	2-Chlorophenol	1.200	1.204	1.311	1.303	1.465	1.433	1.376	1.327	7.83	
9)	Benzaldehyde	0.991	1.008	1.046	0.955	1.043	0.954	0.766	0.966	9.91	
10) C	Phenol	1.373	1.401	1.526	1.509	1.707	1.670	1.597	1.540	8.24	
11)	bis(2-Chloroet...	1.317	1.170	1.257	1.213	1.357	1.299	1.247	1.266	5.04	
12)	1,3-Dichlorobe...	1.596	1.487	1.520	1.440	1.622	1.546	1.480	1.527	4.29	
13) C	1,4-Dichlorobe...	1.558	1.505	1.525	1.470	1.637	1.567	1.491	1.536	3.67	
14)	1,2-Dichlorobe...	1.530	1.467	1.498	1.426	1.579	1.529	1.449	1.497	3.56	
15)	Benzyl Alcohol	0.883	0.950	1.128	1.149	1.306	1.288	1.236	1.134	14.43	
16)	2,2'-oxybis(1-...	1.543	1.445	1.520	1.467	1.617	1.564	1.454	1.516	4.22	
17)	2-Methylphenol	0.966	0.949	1.105	1.099	1.246	1.213	1.154	1.105	10.30	
18)	Hexachloroethane	0.606	0.591	0.582	0.551	0.623	0.597	0.570	0.589	4.04	
19) P	n-Nitroso-di-n...	0.880	0.977	0.967	1.086	1.048	1.142	1.132	1.026	1.032	8.63
20)	3+4-Methylphenols	1.221	1.302	1.503	1.515	1.702	1.692	1.584	1.503	12.21	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.486	0.481	0.511	0.483	0.534	0.512	0.491	0.500	3.97	
23) S	Nitrobenzene-d5	0.381	0.376	0.401	0.382	0.429	0.408	0.394	0.396	4.67	
24)	Nitrobenzene	0.333	0.340	0.355	0.337	0.373	0.356	0.344	0.348	4.03	
25)	Isophorone	0.644	0.640	0.695	0.673	0.753	0.721	0.682	0.687	5.91	
26) C	2-Nitrophenol	0.135	0.143	0.168	0.172	0.196	0.192	0.189	0.171	14.05	
27)	2,4-Dimethylph...	0.273	0.279	0.300	0.298	0.329	0.318	0.309	0.301	6.60	
28)	bis(2-Chloroet...	0.403	0.391	0.411	0.399	0.443	0.419	0.405	0.410	4.15	
29) C	2,4-Dichloroph...	0.250	0.258	0.290	0.291	0.327	0.316	0.309	0.292	9.96	
30)	1,2,4-Trichlor...	0.346	0.322	0.327	0.306	0.347	0.329	0.323	0.329	4.33	
31)	Naphthalene	1.064	1.026	1.049	0.980	1.091	1.037	1.007	1.036	3.54	
32)	Benzoic acid		0.089	0.146	0.191	0.215	0.220	0.225	0.181	29.55	
33)	4-Chloroaniline	0.348	0.371	0.420	0.418	0.465	0.462	0.442	0.418	10.62	
34) C	Hexachlorobuta...	0.231	0.214	0.211	0.198	0.222	0.209	0.206	0.213	5.08	
35)	Caprolactam	0.082	0.092	0.104	0.109	0.121	0.121	0.110	0.106	13.80	
36) C	4-Chloro-3-met...	0.316	0.325	0.358	0.356	0.391	0.384	0.359	0.356	7.78	
37)	2-Methylnaphth...	0.673	0.654	0.670	0.640	0.713	0.693	0.654	0.671	3.73	
38)	1-Methylnaphth...	0.741	0.700	0.720	0.690	0.751	0.733	0.690	0.718	3.47	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.593	0.558	0.574	0.549	0.625	0.580	0.586	0.581	4.26	
41) P	Hexachlorocycl...	0.250	0.276	0.350	0.356	0.420	0.391	0.421	0.352	19.02	
42) S	2,4,6-Tribromo...	0.324	0.321	0.335	0.323	0.369	0.357	0.346	0.339	5.49	
43) C	2,4,6-Trichlor...	0.305	0.341	0.375	0.371	0.428	0.410	0.402	0.376	11.29	
44)	2,4,5-Trichlor...	0.376	0.375	0.418	0.404	0.471	0.447	0.440	0.419	8.68	
45) S	2-Fluorobiphenyl	1.601	1.498	1.553	1.432	1.602	1.515	1.485	1.527	4.10	
46)	1,1'-Biphenyl	1.524	1.434	1.492	1.383	1.586	1.473	1.456	1.478	4.40	
47)	2-Chloronaphth...	1.147	1.106	1.131	1.065	1.196	1.132	1.113	1.127	3.56	
48)	2-Nitroaniline	0.279	0.304	0.331	0.335	0.381	0.364	0.343	0.334	10.28	
49)	Acenaphthylene	1.845	1.818	1.920	1.804	2.029	1.930	1.856	1.886	4.19	
50)	Dimethylphthalate	1.570	1.527	1.518	1.450	1.611	1.535	1.460	1.524	3.73	
51)	2,6-Dinitrotol...	0.299	0.308	0.326	0.312	0.354	0.337	0.319	0.322	5.75	
52) C	Acenaphthene	1.105	1.054	1.094	1.028	1.159	1.099	1.052	1.084	4.02	
53)	3-Nitroaniline	0.258	0.275	0.329	0.340	0.379	0.370	0.350	0.329	14.04	
54) P	2,4-Dinitrophenol		0.098	0.143	0.172	0.201	0.201	0.201	0.169	24.79	
55)	Dibenzofuran	1.810	1.716	1.740	1.633	1.816	1.733	1.658	1.730	4.00	
56) P	4-Nitrophenol		0.159	0.222	0.257	0.299	0.288	0.274	0.250	20.82	
57)	2,4-Dinitrotol...	0.400	0.422	0.456	0.454	0.508	0.483	0.454	0.454	7.87	
58)	Fluorene	1.466	1.415	1.410	1.336	1.494	1.410	1.341	1.410	4.14	
59)	2,3,4,6-Tetrac...	0.367	0.364	0.381	0.379	0.428	0.406	0.394	0.388	5.89	
60)	Diethylphthalate	1.593	1.542	1.537	1.444	1.639	1.563	1.468	1.541	4.40	
61)	4-Chlorophenyl...	0.752	0.697	0.700	0.656	0.741	0.709	0.668	0.703	5.01	
62)	4-Nitroaniline	0.228	0.259	0.326	0.330	0.375	0.363	0.341	0.317	17.06	
63)	Azobenzene	1.327	1.299	1.356	1.250	1.407	1.343	1.243	1.318	4.45	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.094	0.120	0.129	0.149	0.143	0.141	0.129	15.64	
66) c	n-Nitrosodiphe...	0.603	0.589	0.627	0.593	0.667	0.621	0.600	0.614	4.41	
67)	4-Bromophenyl-...	0.231	0.223	0.237	0.226	0.252	0.242	0.240	0.236	4.31	
68)	Hexachlorobenzene	0.303	0.288	0.298	0.282	0.321	0.304	0.300	0.299	4.25	
69)	Atrazine	0.210	0.209	0.227	0.218	0.248	0.237	0.226	0.225	6.32	
70) C	Pentachlorophenol	0.124	0.137	0.163	0.172	0.198	0.191	0.192	0.168	17.12	
71)	Phenanthrene	1.144	1.085	1.125	1.051	1.170	1.125	1.083	1.112	3.68	
72)	Anthracene	1.097	1.064	1.142	1.075	1.205	1.139	1.108	1.119	4.31	
73)	Carbazole	0.923	0.944	1.039	1.001	1.114	1.053	1.013	1.012	6.43	
74)	Di-n-butylphth...	1.182	1.218	1.332	1.260	1.447	1.363	1.313	1.302	6.97	
75) C	Fluoranthene	1.271	1.254	1.314	1.250	1.399	1.337	1.272	1.300	4.18	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine		0.362	0.543	0.560	0.657	0.599	0.548	0.545	18.22	
78)	Pyrene	1.184	1.137	1.197	1.153	1.273	1.222	1.223	1.198	3.85	
79) S	Terphenyl-d14	1.192	1.113	1.165	1.125	1.226	1.175	1.167	1.166	3.30	
80)	Butylbenzylphth...	0.458	0.465	0.537	0.527	0.604	0.571	0.569	0.533	10.28	
81)	Benzo(a)anthra...	1.251	1.218	1.253	1.208	1.336	1.275	1.250	1.256	3.36	
82)	3,3'-Dichlorob...	0.357	0.392	0.474	0.477	0.539	0.511	0.514	0.466	14.45	
83)	Chrysene	1.214	1.180	1.185	1.131	1.255	1.188	1.180	1.190	3.16	
84)	Bis(2-ethylhex...	0.673	0.683	0.801	0.766	0.884	0.836	0.841	0.783	10.32	
85) c	Di-n-octyl pht...	1.048	1.116	1.272	1.280	1.458	1.376	1.417	1.281	11.95	

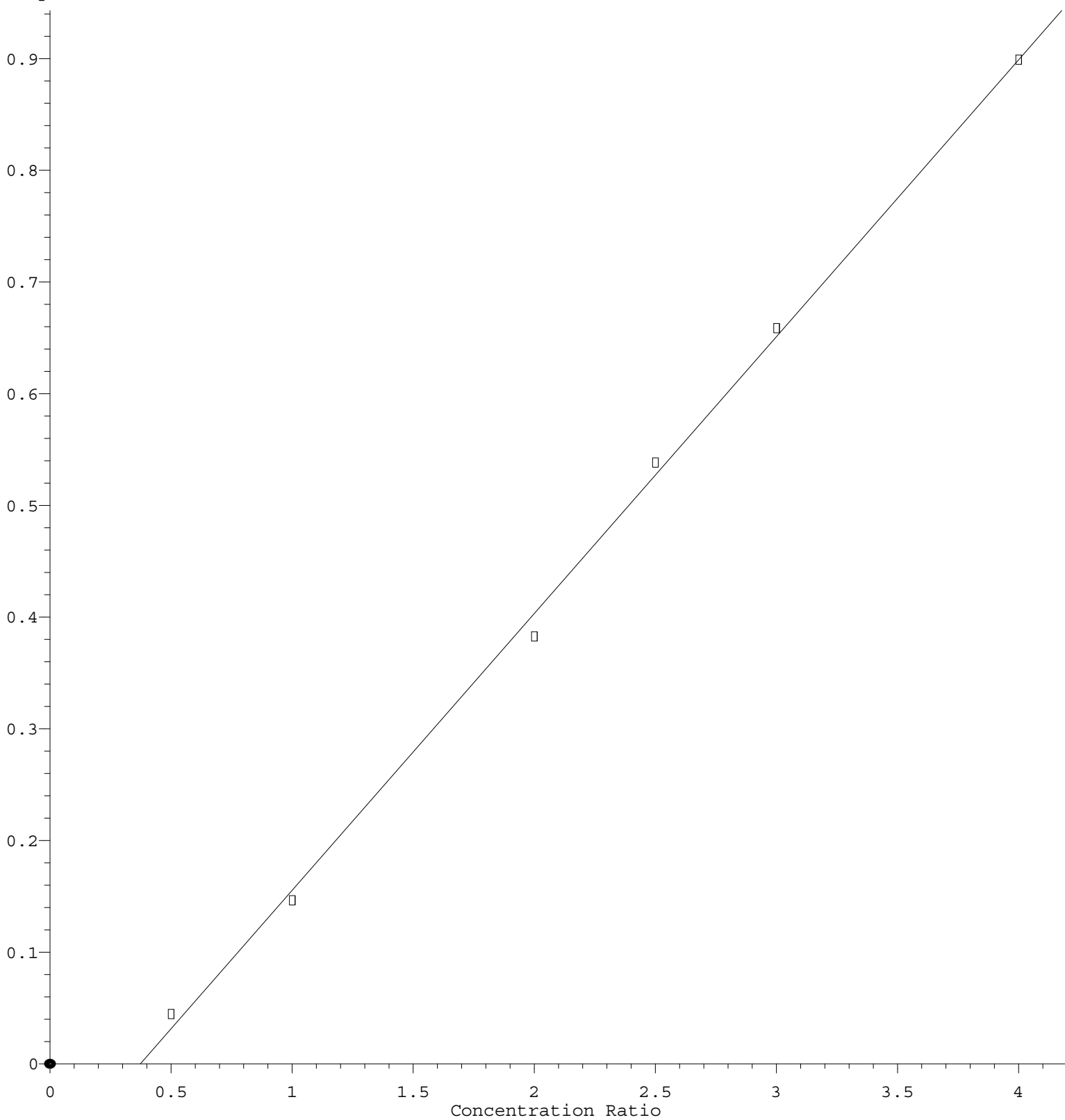
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.341	1.357	1.447	1.424	1.608	1.549	1.494	1.460	6.70
88)	Benzo(b)fluora...	1.028	1.070	1.152	1.103	1.288	1.184	1.189	1.145	7.58
89)	Benzo(k)fluora...	1.147	1.106	1.182	1.140	1.258	1.238	1.185	1.180	4.59
90) C	Benzo(a)pyrene	0.995	1.001	1.112	1.064	1.221	1.167	1.136	1.099	7.68
91)	Dibenzo(a,h)an...	1.068	1.066	1.186	1.167	1.321	1.271	1.236	1.188	8.18
92)	Benzo(g,h,i)pe...	1.101	1.106	1.167	1.147	1.294	1.242	1.212	1.181	6.07

(#) = Out of Range

Benzoic acid

Response Ratio



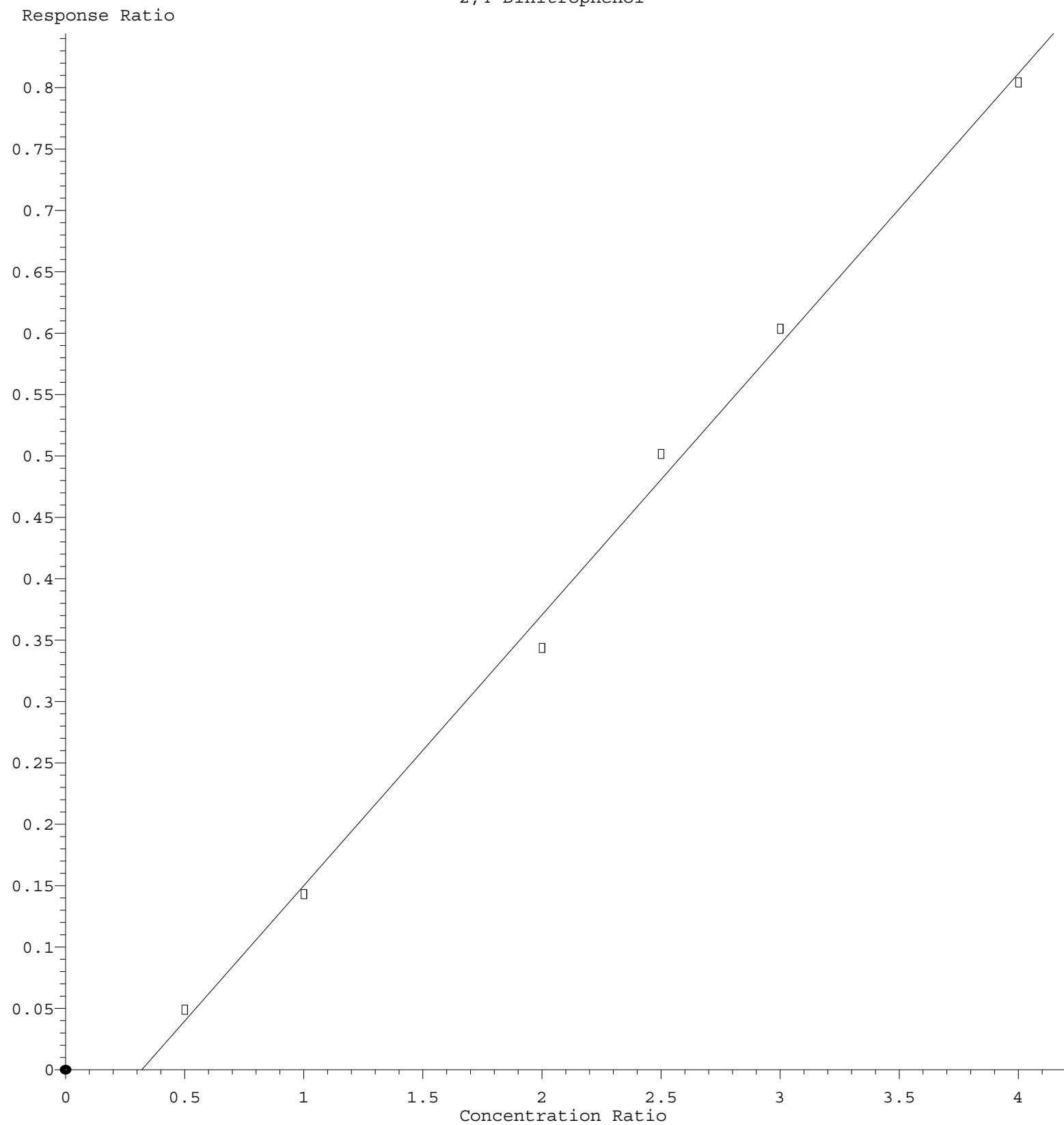
$$\text{Response} = 2.481\text{e-}001 * \text{Amt} - 9.265\text{e-}002$$

Coef of Det (r^2) = 0.998338 Curve Fit: Linear

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2,4-Dinitrophenol



$$\text{Response} = 2.207\text{e-}001 * \text{Amt} - 7.063\text{e-}002$$

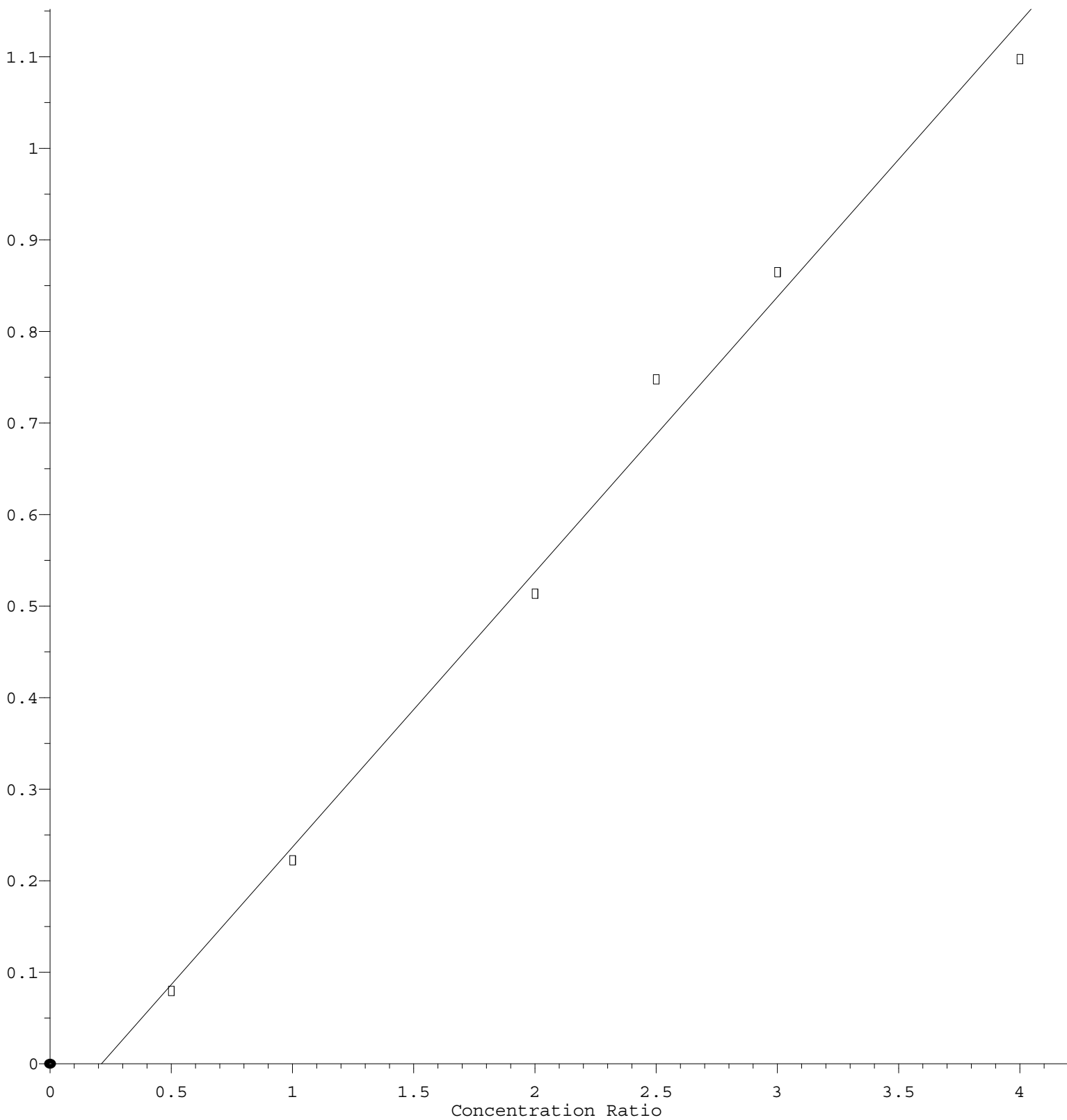
Coef of Det (r^2) = 0.996311 Curve Fit: Linear

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4-Nitrophenol

Response Ratio



$$\text{Response} = 3.005\text{e-}001 * \text{Amt} - 6.362\text{e-}002$$

Coef of Det (r^2) = 0.991009 Curve Fit: Linear

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