

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF062623.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Jun 26 23:12:04 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BF133953.D 5 =BF133954.D 10 =BF133955.D 20 =BF133956.D 40 =BF133957.D 50 =BF133958.D 60 =BF133959.D 80 =BF133960.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.509	0.533	0.541	0.491	0.448	0.478	0.449	0.493	7.56	
3)	Pyridine	1.291	1.230	1.419	1.277	1.209	1.313	1.251	1.284	5.39	
4)	n-Nitrosodimet...	0.712	0.747	0.769	0.743	0.693	0.757	0.713	0.733	3.77	
5) S	2-Fluorophenol	1.333	1.301	1.332	1.173	1.076	1.120	1.034	1.196	10.54	
6)	Aniline	1.914	1.876	1.956	1.789	1.688	1.709	1.592	1.789	7.45	
7) S	Phenol-d6	1.666	1.625	1.588	1.420	1.341	1.377	1.275	1.470	10.47	
8)	2-Chlorophenol	1.370	1.327	1.334	1.184	1.124	1.120	1.036	1.214	10.68	
9)	Benzaldehyde	1.029	1.058	0.971	0.808	0.730	0.719		0.886	17.16	
10) C	Phenol	1.770	1.703	1.706	1.507	1.412	1.428	1.297	1.546	11.68	
11)	bis(2-Chloroet...	1.269	1.206	1.224	1.120	1.060	1.081	1.007	1.138	8.49	
12)	1,3-Dichlorobe...	1.436	1.401	1.413	1.267	1.184	1.225	1.132	1.294	9.44	
13) C	1,4-Dichlorobe...	1.446	1.420	1.431	1.293	1.203	1.231	1.126	1.307	9.74	
14)	1,2-Dichlorobe...	1.424	1.367	1.341	1.176	1.115	1.127	1.017	1.224	12.51	
15)	Benzyl Alcohol	1.209	1.230	1.250	1.141	1.039	1.084	0.981	1.134	9.08	
16)	2,2'-oxybis(1-...	2.231	2.170	2.160	1.981	1.913	1.898	1.743	2.014	8.86	
17)	2-Methylphenol	1.172	1.170	1.175	1.078	1.025	1.018	0.971	1.087	7.87	
18)	Hexachloroethane	0.532	0.519	0.520	0.482	0.449	0.463	0.427	0.485	8.29	
19) P	n-Nitroso-di-n...	1.083	1.033	0.997	1.007	0.887	0.815	0.849	0.788	0.932	11.89
20)	3+4-Methylphenols	1.527	1.485	1.480	1.290	1.177	1.200	1.071	1.319	13.63	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.523	0.509	0.489	0.439	0.408	0.428	0.389	0.455	11.41	
23) S	Nitrobenzene-d5	0.381	0.398	0.393	0.371	0.347	0.369	0.338	0.371	6.01	
24)	Nitrobenzene	0.376	0.400	0.401	0.379	0.352	0.375	0.342	0.375	5.90	
25)	Isophorone	0.712	0.715	0.701	0.661	0.633	0.667	0.629	0.674	5.35	
26) C	2-Nitrophenol	0.173	0.179	0.193	0.185	0.176	0.181	0.173	0.180	4.09	
27)	2,4-Dimethylph...	0.301	0.303	0.305	0.285	0.265	0.276	0.258	0.285	6.69	
28)	bis(2-Chloroet...	0.418	0.422	0.414	0.391	0.363	0.374	0.351	0.390	7.35	
29) C	2,4-Dichloroph...	0.306	0.292	0.304	0.284	0.263	0.274	0.253	0.282	7.07	
30)	1,2,4-Trichlor...	0.315	0.308	0.311	0.290	0.268	0.286	0.262	0.291	7.25	
31)	Naphthalene	1.073	1.058	1.041	0.951	0.881	0.924	0.835	0.966	9.64	
32)	Benzoic acid	0.164	0.198	0.232	0.229	0.219	0.227	0.225	0.213	11.62	
33)	4-Chloroaniline	0.437	0.441	0.443	0.414	0.389	0.401	0.368	0.413	6.93	
34) C	Hexachlorobuta...	0.195	0.198	0.195	0.183	0.172	0.180	0.163	0.184	7.07	
35)	Caprolactam	0.094	0.096	0.097	0.094	0.088	0.094	0.088	0.093	3.60	
36) C	4-Chloro-3-met...	0.337	0.342	0.333	0.315	0.294	0.310	0.289	0.317	6.65	
37)	2-Methylnaphth...	0.796	0.754	0.732	0.666	0.609	0.640	0.585	0.683	11.55	
38)	1-Methylnaphth...	0.753	0.696	0.672	0.616	0.566	0.598	0.544	0.635	11.84	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.626	0.639	0.634	0.585	0.562	0.574	0.528	0.593	7.08	
41) P	Hexachlorocycl...	0.214	0.264	0.295	0.297	0.310	0.307	0.281		12.98	
42) S	2,4,6-Tribromo...	0.259	0.274	0.270	0.248	0.235	0.243	0.225	0.251	7.23	
43) C	2,4,6-Trichlor...	0.412	0.433	0.423	0.404	0.391	0.394	0.367	0.403	5.45	
44)	2,4,5-Trichlor...	0.494	0.503	0.500	0.473	0.454	0.467	0.431	0.474	5.57	
45) S	2-Fluorobiphenyl	1.574	1.574	1.501	1.328	1.243	1.265	1.144	1.376	12.61	
46)	1,1'-Biphenyl	1.764	1.767	1.710	1.576	1.508	1.526	1.379	1.604	9.19	
47)	2-Chloronaphth...	1.283	1.285	1.236	1.154	1.106	1.123	1.030	1.174	8.26	
48)	2-Nitroaniline	0.407	0.444	0.452	0.431	0.422	0.432	0.406	0.428	4.05	
49)	Acenaphthylene	2.169	2.206	2.171	1.979	1.901	1.909	1.703	2.005	9.26	
50)	Dimethylphthalate	1.544	1.581	1.522	1.425	1.374	1.408	1.308	1.452	6.85	
51)	2,6-Dinitrotol...	0.316	0.323	0.329	0.318	0.303	0.315	0.285	0.313	4.69	
52) C	Acenaphthene	1.242	1.279	1.252	1.143	1.089	1.122	1.018	1.164	8.33	
53)	3-Nitroaniline	0.377	0.389	0.404	0.375	0.356	0.374	0.350	0.375	4.92	
54) P	2,4-Dinitrophenol	0.122	0.147	0.168	0.169	0.192	0.176	0.162		15.11	
55)	Dibenzofuran	2.044	2.015	1.960	1.802	1.692	1.701	1.514	1.818	10.82	
56) P	4-Nitrophenol	0.236	0.262	0.280	0.269	0.265	0.272	0.253	0.262	5.43	
57)	2,4-Dinitrotol...	0.417	0.439	0.450	0.417	0.396	0.407	0.364	0.413	6.84	
58)	Fluorene	1.585	1.611	1.541	1.373	1.289	1.319	1.185	1.415	11.65	
59)	2,3,4,6-Tetrac...	0.392	0.401	0.390	0.368	0.357	0.372	0.339	0.374	5.81	
60)	Diethylphthalate	1.631	1.692	1.612	1.489	1.415	1.448	1.303	1.513	9.12	
61)	4-Chlorophenyl...	0.773	0.767	0.733	0.667	0.623	0.638	0.572	0.682	11.35	
62)	4-Nitroaniline	0.380	0.396	0.402	0.377	0.370	0.378	0.343	0.378	5.03	
63)	Azobenzene	1.531	1.554	1.512	1.408	1.358	1.374	1.279	1.431	7.21	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.084	0.102	0.113	0.117	0.112	0.119	0.115	0.109	11.21	
66) c	n-Nitrosodiphe...	0.718	0.680	0.685	0.628	0.586	0.603	0.572	0.639	8.76	
67)	4-Bromophenyl-...	0.227	0.222	0.228	0.213	0.199	0.203	0.196	0.213	6.33	
68)	Hexachlorobenzene	0.241	0.236	0.242	0.221	0.211	0.222	0.207	0.226	6.33	
69)	Atrazine	0.194	0.201	0.195	0.167	0.161	0.167	0.152	0.177	10.94	
70) C	Pentachlorophenol	0.119	0.135	0.144	0.141	0.134	0.137	0.135	0.135	5.81	
71)	Phenanthrene	1.119	1.105	1.087	0.981	0.929	0.951	0.876	1.007	9.57	
72)	Anthracene	1.184	1.145	1.149	1.015	0.951	0.988	0.898	1.047	10.64	
73)	Carbazole	1.087	1.066	1.056	0.950	0.814	0.902	0.835	0.959	11.81	
74)	Di-n-butylphth...	1.265	1.264	1.254	1.141	0.982	1.084	0.989	1.140	11.04	
75) C	Fluoranthene	1.284	1.246	1.207	1.054	0.919	1.012	0.897	1.088	14.52	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.583	0.479	0.512	0.452	0.410	0.418	0.476		13.66	
78)	Pyrene	1.804	1.790	1.865	1.963	1.871	1.934	1.802	1.861	3.65	
79) S	Terphenyl-d14	1.283	1.241	1.284	1.267	1.214	1.253	1.156	1.243	3.64	
80)	Butylbenzylphth...	0.668	0.702	0.723	0.721	0.685	0.720	0.666	0.698	3.58	
81)	Benzo(a)anthra...	1.500	1.462	1.433	1.379	1.312	1.356	1.267	1.387	6.01	
82)	3,3'-Dichlorob...	0.487	0.486	0.465	0.430	0.412	0.412	0.384	0.439	9.12	
83)	Chrysene	1.472	1.404	1.400	1.329	1.260	1.306	1.234	1.343	6.39	
84)	Bis(2-ethylhex...	0.753	0.832	0.832	0.821	0.785	0.822	0.770	0.802	4.02	
85) c	Di-n-octyl pht...	1.061	1.124	1.137	1.199	1.189	1.264	1.277	1.179	6.56	

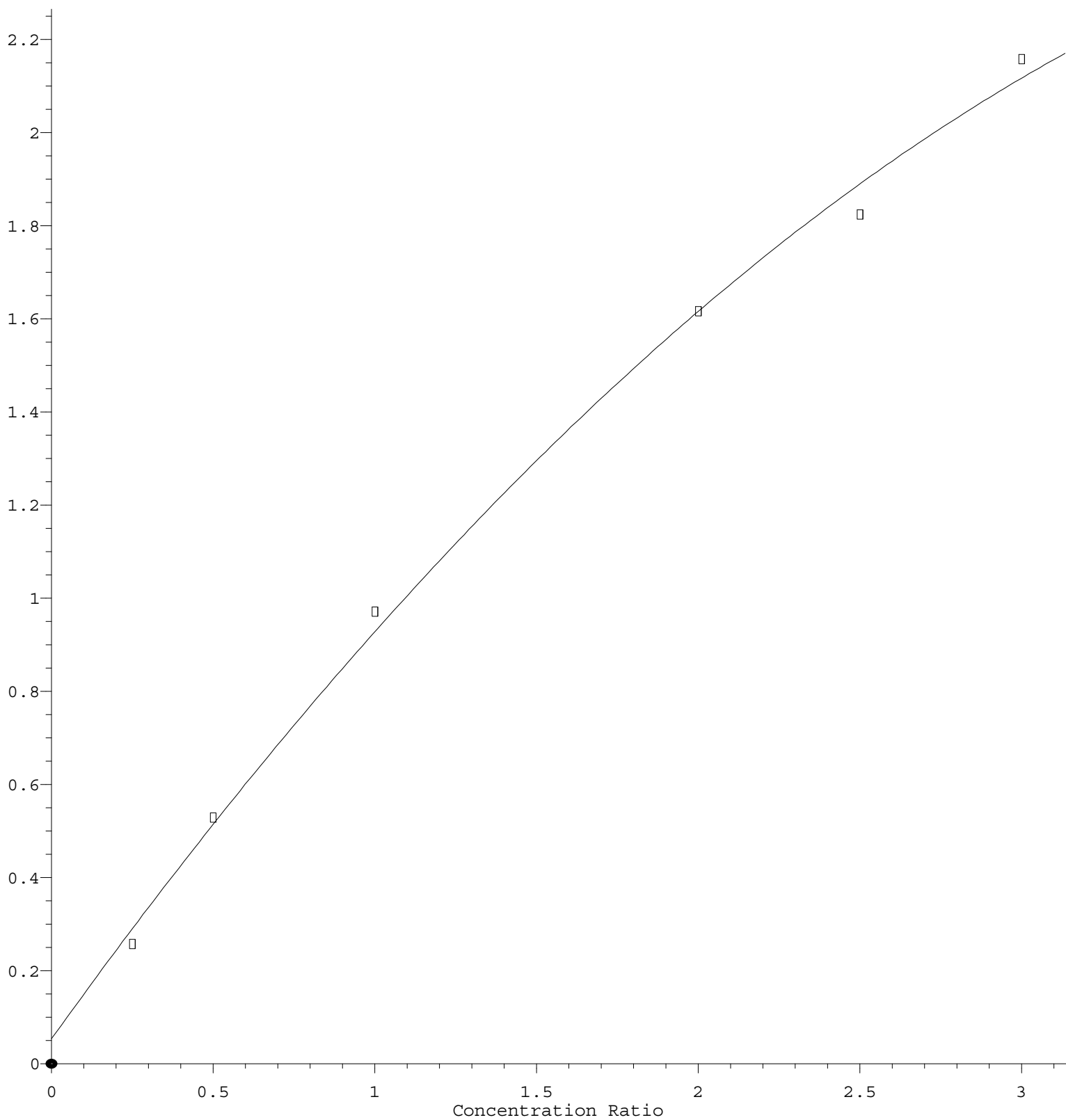
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		-----ISTD-----	
86) I	Perylene-d12		
87)	Indeno(1,2,3-c...	1.095 1.182 1.435 1.520 1.545 1.488 1.449 1.388	12.71
88)	Benzo(b)fluora...	1.188 1.314 1.268 1.181 1.070 1.114 1.097 1.176	7.68
89)	Benzo(k)fluora...	1.276 1.365 1.306 1.161 1.093 1.156 1.025 1.197	10.23
90) C	Benzo(a)pyrene	1.167 1.199 1.199 1.137 1.072 1.123 1.064 1.137	4.86
91)	Dibenzo(a,h)an...	0.911 0.995 1.181 1.240 1.255 1.200 1.153 1.134	11.50
92)	Benzo(g,h,i)pe...	0.965 0.979 1.212 1.269 1.296 1.247 1.214 1.169	11.79

(#) = Out of Range

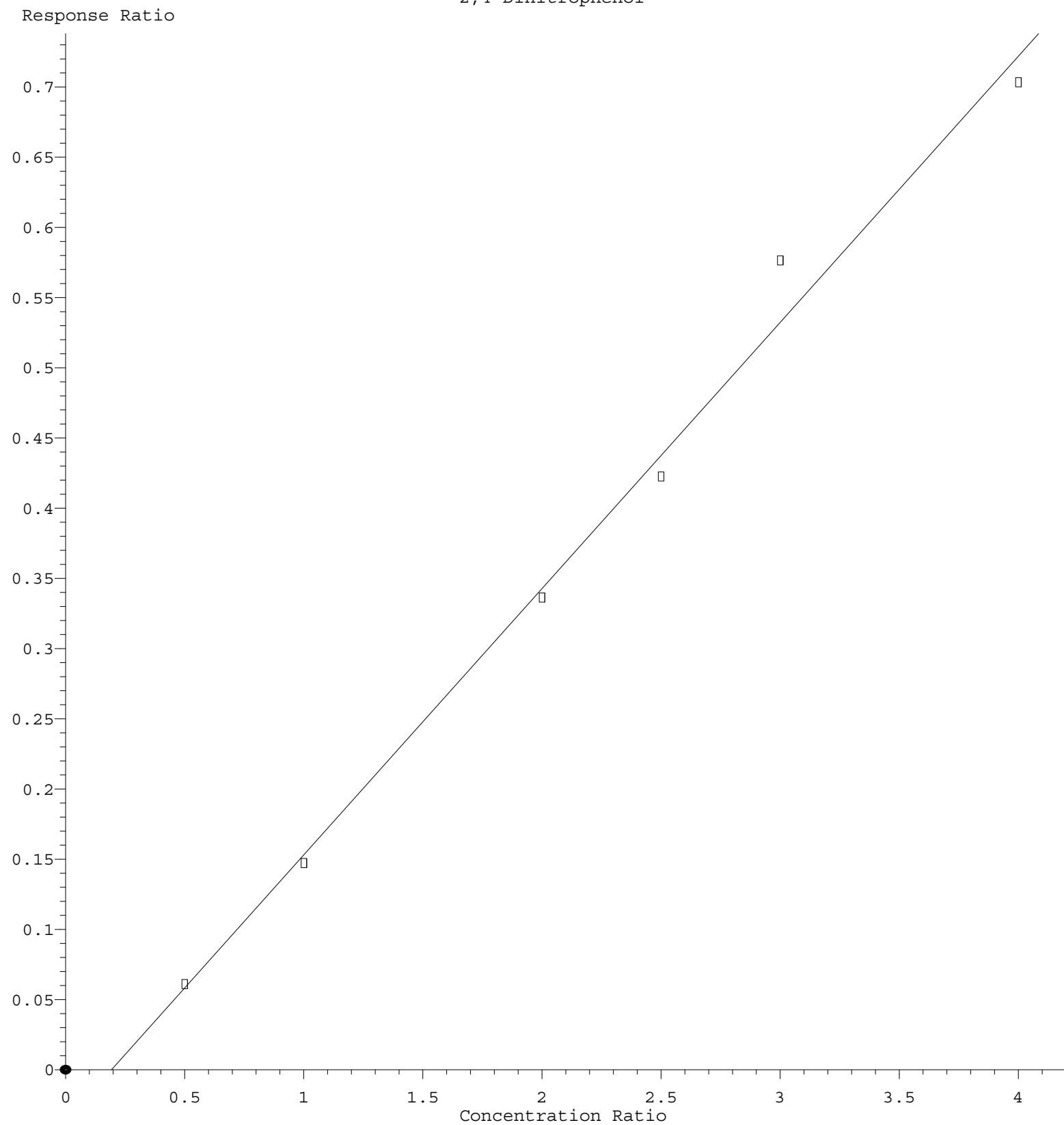
Benzaldehyde

Response Ratio



$R = -9.331e-002 A^2 + 9.677e-001 A + 5.376e-002$
Coef of Det (r^2) = 0.996830 Curve Fit: Quadratic
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2,4-Dinitrophenol



Response = $1.897 \times 10^{-1} \times \text{Amt} - 3.666 \times 10^{-2}$
 Coef of Det (r^2) = 0.991398 Curve Fit: Linear
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