

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
 Method File : 8270-BE102824.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Oct 29 01:26:30 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BE101389.D 5 =BE101390.D 10 =BE101391.D 20 =BE101392.D 40 =BE101393.D 50 =BE101394.D 60 =BE101395.D 80 =BE101396.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.471	0.463	0.454	0.421	0.400	0.392	0.379	0.426	8.76	
3)	Pyridine	1.064	1.123	1.255	1.196	1.252	1.287	1.252	1.204	6.80	
4)	n-Nitrosodimet...	0.459	0.440	0.454	0.479	0.473	0.488	0.468	0.466	3.45	
5) S	2-Fluorophenol	1.134	1.073	1.142	1.153	1.143	1.187	1.155	1.141	3.03	
6)	Aniline	1.059	1.262	1.529	1.346	1.301	1.224	0.767	1.213	19.92	
7) S	Phenol-d6	1.450	1.475	1.558	1.629	1.594	1.727	1.643	1.582	6.15	
8)	2-Chlorophenol	1.335	1.305	1.371	1.403	1.369	1.426	1.371	1.369	2.94	
9)	Benzaldehyde	0.793	0.849	0.861	0.807	0.678	0.595		0.764	13.74	
10) C	Phenol	1.488	1.456	1.766	1.826	1.797	1.914	1.769	1.717	10.16	
11)	bis(2-Chloroet...	1.513	1.401	1.245	1.477	1.322	1.408	1.492	1.408	6.93	
12)	1,3-Dichlorobe...	1.563	1.523	1.508	1.488	1.424	1.443	1.382	1.476	4.25	
13) C	1,4-Dichlorobe...	1.624	1.534	1.546	1.505	1.447	1.484	1.409	1.507	4.66	
14)	1,2-Dichlorobe...	1.553	1.488	1.502	1.490	1.433	1.472	1.388	1.475	3.56	
15)	Benzyl Alcohol	0.704	0.797	0.979	1.061	1.013	1.059	0.990	0.943	14.61	
16)	2,2'-oxybis(1-...	1.840	1.857	1.816	1.794	1.711	1.746	1.642	1.772	4.33	
17)	2-Methylphenol	1.038	1.078	1.142	1.217	1.181	1.263	1.215	1.162	6.96	
18)	Hexachloroethane	0.497	0.486	0.492	0.497	0.495	0.496	0.481	0.492	1.28	
19) P	n-Nitroso-di-n...	0.807	0.900	1.060	1.081	1.150	1.115	1.185	1.102	1.050	12.35
20)	3+4-Methylphenols	1.364	1.500	1.580	1.685	1.646	1.778	1.674	1.604	8.53	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.427	0.447	0.467	0.481	0.449	0.462	0.446	0.454	3.79	
23) S	Nitrobenzene-d5	0.292	0.306	0.325	0.336	0.323	0.331	0.316	0.318	4.78	
24)	Nitrobenzene	0.315	0.325	0.349	0.355	0.339	0.350	0.339	0.339	4.26	
25)	Isophorone	0.533	0.601	0.624	0.665	0.639	0.655	0.632	0.621	7.13	
26) C	2-Nitrophenol	0.127	0.141	0.162	0.179	0.175	0.182	0.181	0.164	13.41	
27)	2,4-Dimethylph...	0.196	0.194	0.207	0.215	0.206	0.215	0.211	0.206	4.19	
28)	bis(2-Chloroet...	0.351	0.378	0.388	0.392	0.374	0.385	0.370	0.377	3.65	
29) C	2,4-Dichloroph...	0.257	0.268	0.285	0.297	0.287	0.305	0.297	0.285	6.00	
30)	1,2,4-Trichlor...	0.325	0.311	0.315	0.314	0.304	0.307	0.299	0.311	2.71	
31)	Naphthalene	1.092	1.040	1.039	1.045	0.982	0.999	0.936	1.019	5.00	
32)	Benzoic acid		0.091	0.145	0.196	0.203	0.223	0.234	0.182	29.71	
33)	4-Chloroaniline	0.321	0.355	0.373	0.398	0.364	0.365	0.305	0.354	8.87	
34) C	Hexachlorobuta...	0.193	0.185	0.187	0.187	0.179	0.180	0.176	0.184	3.26	
35)	Caprolactam	0.077	0.093	0.109	0.119	0.118	0.126	0.124	0.109	16.48	
36) C	4-Chloro-3-met...	0.277	0.314	0.321	0.341	0.330	0.347	0.343	0.325	7.51	
37)	2-Methylnaphth...	0.753	0.752	0.736	0.756	0.711	0.736	0.696	0.734	3.12	
38)	1-Methylnaphth...	0.750	0.756	0.735	0.751	0.709	0.733	0.696	0.733	3.08	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.522	0.493	0.515	0.512	0.491	0.499	0.481	0.502	2.96	
41) P	Hexachlorocycl...	0.153	0.150	0.179	0.177	0.173	0.168	0.162	0.166	6.85	
42) S	2,4,6-Tribromo...	0.329	0.341	0.358	0.366	0.355	0.359	0.346	0.351	3.59	
43) C	2,4,6-Trichlor...	0.310	0.325	0.352	0.369	0.353	0.360	0.353	0.346	6.01	
44)	2,4,5-Trichlor...	0.356	0.372	0.401	0.415	0.402	0.418	0.411	0.396	5.93	
45) S	2-Fluorobiphenyl	1.359	1.275	1.283	1.226	1.114	1.072	0.938	1.181	12.39	
46)	1,1'-Biphenyl	1.477	1.399	1.431	1.408	1.326	1.326	1.224	1.370	6.15	
47)	2-Chloronaphth...	1.159	1.091	1.112	1.098	1.054	1.060	1.002	1.083	4.60	
48)	2-Nitroaniline	0.214	0.243	0.295	0.318	0.318	0.329	0.322	0.291	15.45	
49)	Acenaphthylene	1.613	1.605	1.656	1.677	1.586	1.597	1.473	1.601	4.07	
50)	Dimethylphthalate	1.446	1.469	1.459	1.449	1.378	1.383	1.298	1.412	4.38	
51)	2,6-Dinitrotol...	0.284	0.309	0.331	0.345	0.333	0.346	0.334	0.326	6.77	
52) C	Acenaphthene	1.120	1.080	1.073	1.075	1.016	1.017	0.936	1.045	5.79	
53)	3-Nitroaniline	0.266	0.296	0.342	0.357	0.347	0.345	0.315	0.324	10.25	
54) P	2,4-Dinitrophenol		0.125	0.177	0.208	0.219	0.230	0.231	0.198	20.84	
55)	Dibenzofuran	1.828	1.739	1.721	1.695	1.604	1.608	1.468	1.666	7.02	
56) P	4-Nitrophenol		0.219	0.291	0.311	0.318	0.324	0.318	0.297	13.34	
57)	2,4-Dinitrotol...	0.344	0.407	0.454	0.481	0.480	0.495	0.481	0.449	12.18	
58)	Fluorene	1.490	1.450	1.446	1.453	1.354	1.342	1.222	1.394	6.71	
59)	2,3,4,6-Tetrac...	0.345	0.355	0.368	0.382	0.367	0.378	0.369	0.366	3.48	
60)	Diethylphthalate	1.499	1.532	1.560	1.535	1.456	1.427	1.327	1.477	5.47	
61)	4-Chlorophenyl...	0.737	0.713	0.705	0.707	0.676	0.673	0.631	0.692	5.05	
62)	4-Nitroaniline	0.267	0.316	0.374	0.391	0.393	0.394	0.389	0.361	13.79	
63)	Azobenzene	1.280	1.309	1.331	1.319	1.248	1.245	1.154	1.269	4.80	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.086	0.108	0.123	0.125	0.131	0.133	0.118	15.15	
66) c	n-Nitrosodiphe...	0.542	0.548	0.545	0.553	0.516	0.520	0.489	0.530	4.33	
67)	4-Bromophenyl-...	0.211	0.207	0.209	0.215	0.208	0.215	0.209	0.210	1.48	
68)	Hexachlorobenzene	0.283	0.272	0.274	0.283	0.271	0.278	0.269	0.276	2.01	
69)	Atrazine	0.182	0.179	0.160	0.184	0.109			0.163	19.39	
70) C	Pentachlorophenol	0.116	0.137	0.159	0.173	0.172	0.177	0.177	0.159	14.86	
71)	Phenanthrene	1.068	1.023	1.012	0.991	0.912	0.896	0.801	0.958	9.62	
72)	Anthracene	1.002	0.972	0.997	0.979	0.909	0.893	0.793	0.935	8.08	
73)	Carbazole	1.010	0.987	1.033	0.995	0.939	0.914	0.820	0.957	7.62	
74)	Di-n-butylphth...	1.018	1.088	1.221	1.136	1.058	0.985	0.867	1.053	10.73	
75) C	Fluoranthene	1.320	1.268	1.306	1.199	1.102	1.043	0.903	1.163	13.27	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.236	0.285	0.253	0.347	0.228	0.198	0.230	0.254	19.22	
78)	Pyrene	1.176	1.206	1.184	1.174	1.052	1.016	0.890	1.100	10.69	
79) S	Terphenyl-d14	1.036	1.023	0.970	0.841	0.686	0.657		0.869	19.31	
80)	Butylbenzylpht...	0.443	0.467	0.515	0.510	0.494	0.490	0.455	0.482	5.73	
81)	Benzo(a)anthra...	1.277	1.238	1.243	1.174	1.047	1.010	0.879	1.124	13.18	
82)	3,3'-Dichlorob...	0.404	0.438	0.470	0.481	0.450	0.444	0.396	0.440	7.11	
83)	Chrysene	1.266	1.225	1.201	1.110	1.005	0.962	0.838	1.087	14.51	
84)	Bis(2-ethylhex...	0.550	0.608	0.705	0.698	0.672	0.659	0.591	0.641	9.15	
85) c	Di-n-octyl pht...	0.987	1.057	1.209	1.137	1.053	1.032	0.883	1.051	9.92	

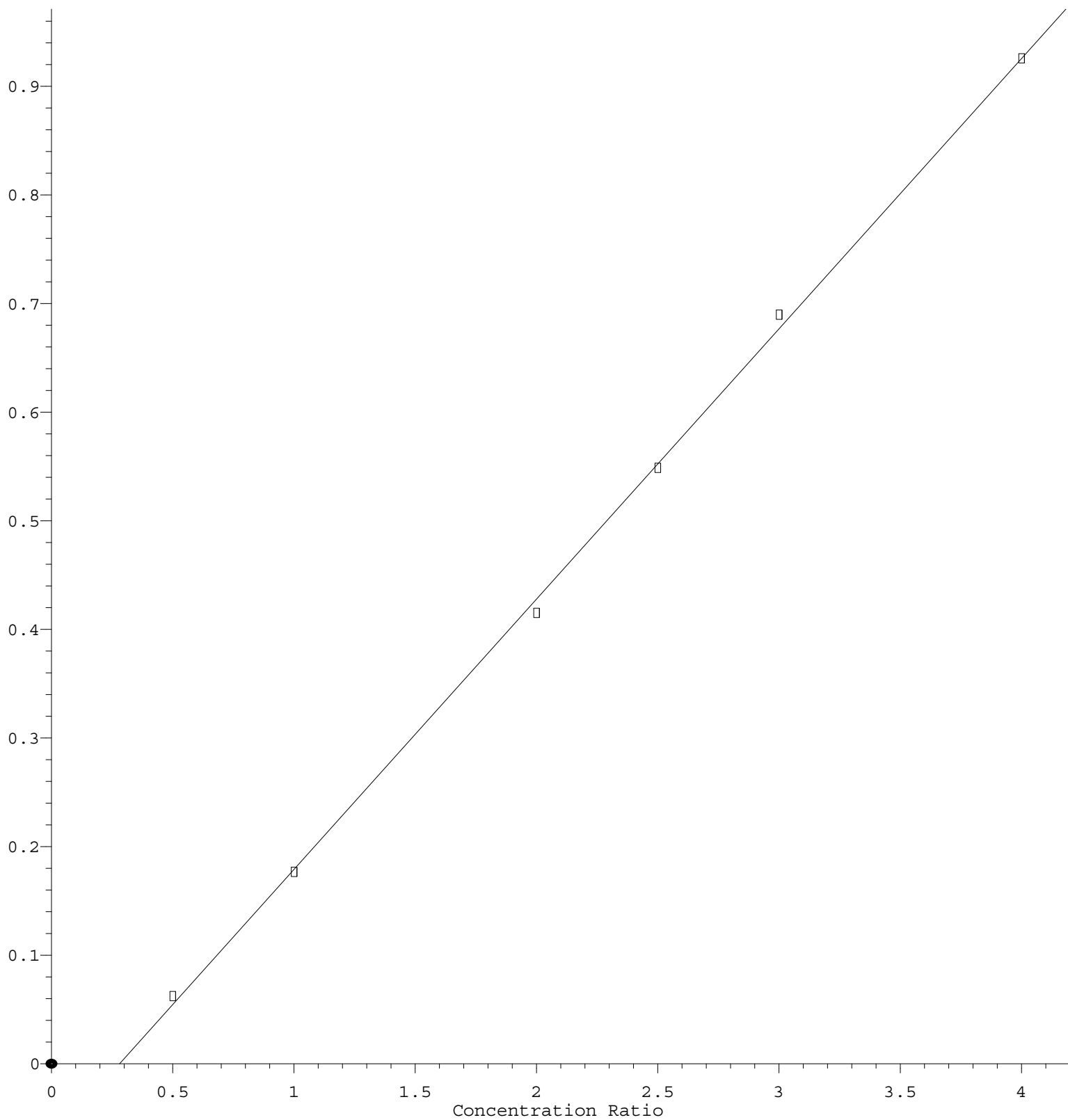
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		-----ISTD-----								
86) I	Perylene-d12									
87)	Indeno(1,2,3-c...	1.390	1.352	1.390	1.394	1.315	1.315	1.214	1.338	4.83
88)	Benzo(b)fluora...	1.076	1.113	1.100	1.110	1.023	1.000	0.873	1.042	8.29
89)	Benzo(k)fluora...	1.126	1.042	1.087	1.015	0.897	0.875	0.774	0.974	13.13
90) C	Benzo(a)pyrene	0.935	0.933	0.961	0.966	0.899	0.890	0.796	0.912	6.37
91)	Dibenzo(a,h)an...	1.130	1.125	1.169	1.170	1.089	1.083	0.977	1.106	6.00
92)	Benzo(g,h,i)pe...	1.162	1.130	1.155	1.179	1.125	1.152	1.075	1.140	2.98

(#) = Out of Range

2,4-Dinitrophenol

Response Ratio



$$\text{Response} = 2.491\text{e-}001 * \text{Amt} - 6.995\text{e-}002$$

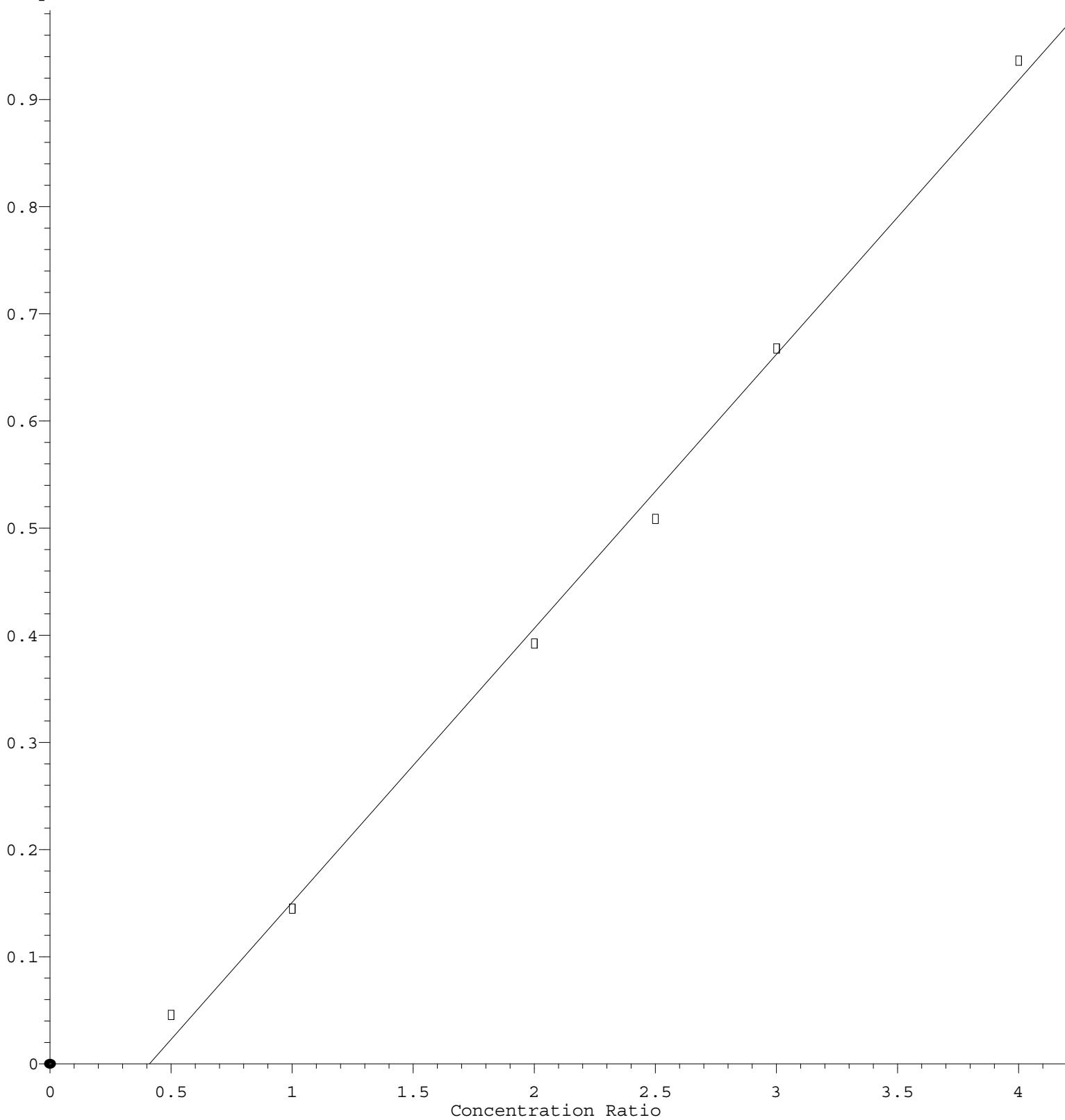
Coef of Det (r^2) = 0.999215 Curve Fit: Linear

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Benzoic acid

Response Ratio



$$\text{Response} = 2.558\text{e-}001 * \text{Amt} - 1.051\text{e-}001$$

Coef of Det (r^2) = 0.996743 Curve Fit: Linear

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