

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF053124.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Sat Jun 01 01:21:05 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF138085.D 5 =BF138086.D 10 =BF138087.D 20 =BF138088.D 40 =BF138089.D 50 =BF138090.D 60 =BF138091.D 80 =BF138092.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.523	0.500	0.496	0.482	0.475	0.469	0.455	0.486	4.63	
3)	Pyridine	0.929	1.069	1.147	1.107	1.090	1.088	1.083	1.073	6.37	
4)	n-Nitrosodimet...	0.462	0.483	0.486	0.469	0.468	0.472	0.461	0.471	2.07	
5) S	2-Fluorophenol	1.208	1.206	1.206	1.084	1.054	1.067	1.006	1.119	7.65	
6)	Aniline		0.366	0.754	0.696	0.648	0.636	0.613	0.619	21.63	
7) S	Phenol-d6	1.578	1.539	1.534	1.417	1.356	1.375	1.286	1.441	7.67	
8)	2-Chlorophenol	1.424	1.326	1.378	1.262	1.215	1.233	1.146	1.283	7.60	
9)	Benzaldehyde	0.911	0.881	0.787	0.556	0.486	0.475	0.387	0.640	33.45	
10) C	Phenol	1.539	1.494	1.526	1.412	1.351	1.388	1.282	1.427	6.74	
11)	bis(2-Chloroet...	1.185	1.383	1.271	1.124	1.071	1.099	1.132	1.181	9.38	
12)	1,3-Dichlorobe...	1.608	1.580	1.592	1.468	1.423	1.435	1.335	1.491	6.95	
13) C	1,4-Dichlorobe...	1.607	1.584	1.594	1.494	1.442	1.435	1.338	1.499	6.74	
14)	1,2-Dichlorobe...	1.575	1.515	1.516	1.403	1.339	1.335	1.248	1.419	8.44	
15)	Benzyl Alcohol		0.440	0.517	0.613	0.644	0.679	0.681	0.596	16.31	
16)	2,2'-oxybis(1-...	1.367	1.387	1.388	1.288	1.249	1.256	1.174	1.301	6.30	
17)	2-Methylphenol	1.103	1.085	1.084	1.019	0.975	1.001	0.944	1.030	5.98	
18)	Hexachloroethane	0.538	0.515	0.541	0.513	0.494	0.493	0.470	0.509	4.98	
19) P	n-Nitroso-di-n...	0.863	0.927	0.875	0.895	0.813	0.776	0.784	0.750	0.835	7.62
20)	3+4-Methylphenols	1.406	1.376	1.398	1.294	1.220	1.245	1.127	1.295	8.09	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.479	0.486	0.477	0.442	0.427	0.434	0.408	0.451	6.77	
23) S	Nitrobenzene-d5	0.356	0.356	0.360	0.340	0.331	0.339	0.320	0.343	4.37	
24)	Nitrobenzene	0.350	0.353	0.353	0.338	0.331	0.342	0.324	0.342	3.33	
25)	Isophorone	0.626	0.613	0.624	0.579	0.565	0.581	0.558	0.592	4.78	
26) C	2-Nitrophenol	0.174	0.179	0.193	0.188	0.182	0.185	0.178	0.183	3.57	
27)	2,4-Dimethylph...	0.205	0.214	0.237	0.225	0.215	0.223	0.211	0.219	4.90	
28)	bis(2-Chloroet...	0.386	0.377	0.384	0.359	0.344	0.355	0.332	0.362	5.68	
29) C	2,4-Dichloroph...	0.294	0.300	0.312	0.295	0.284	0.294	0.274	0.293	4.10	
30)	1,2,4-Trichlor...	0.343	0.342	0.340	0.321	0.312	0.319	0.299	0.325	5.28	
31)	Naphthalene	1.133	1.094	1.094	1.007	0.971	0.992	0.911	1.029	7.79	
32)	Benzoic acid		0.079	0.111	0.160	0.172	0.185	0.185	0.149	29.42	
33)	4-Chloroaniline	0.354	0.350	0.369	0.347	0.335	0.346	0.330	0.347	3.71	
34) C	Hexachlorobuta...	0.225	0.212	0.222	0.208	0.200	0.208	0.195	0.210	5.18	
35)	Caprolactam	0.092	0.094	0.093	0.087	0.084	0.088	0.083	0.089	5.11	
36) C	4-Chloro-3-met...	0.300	0.299	0.314	0.291	0.282	0.296	0.276	0.294	4.35	
37)	2-Methylnaphth...	0.744	0.729	0.725	0.660	0.638	0.645	0.598	0.677	8.21	
38)	1-Methylnaphth...	0.718	0.705	0.714	0.651	0.615	0.630	0.578	0.659	8.31	

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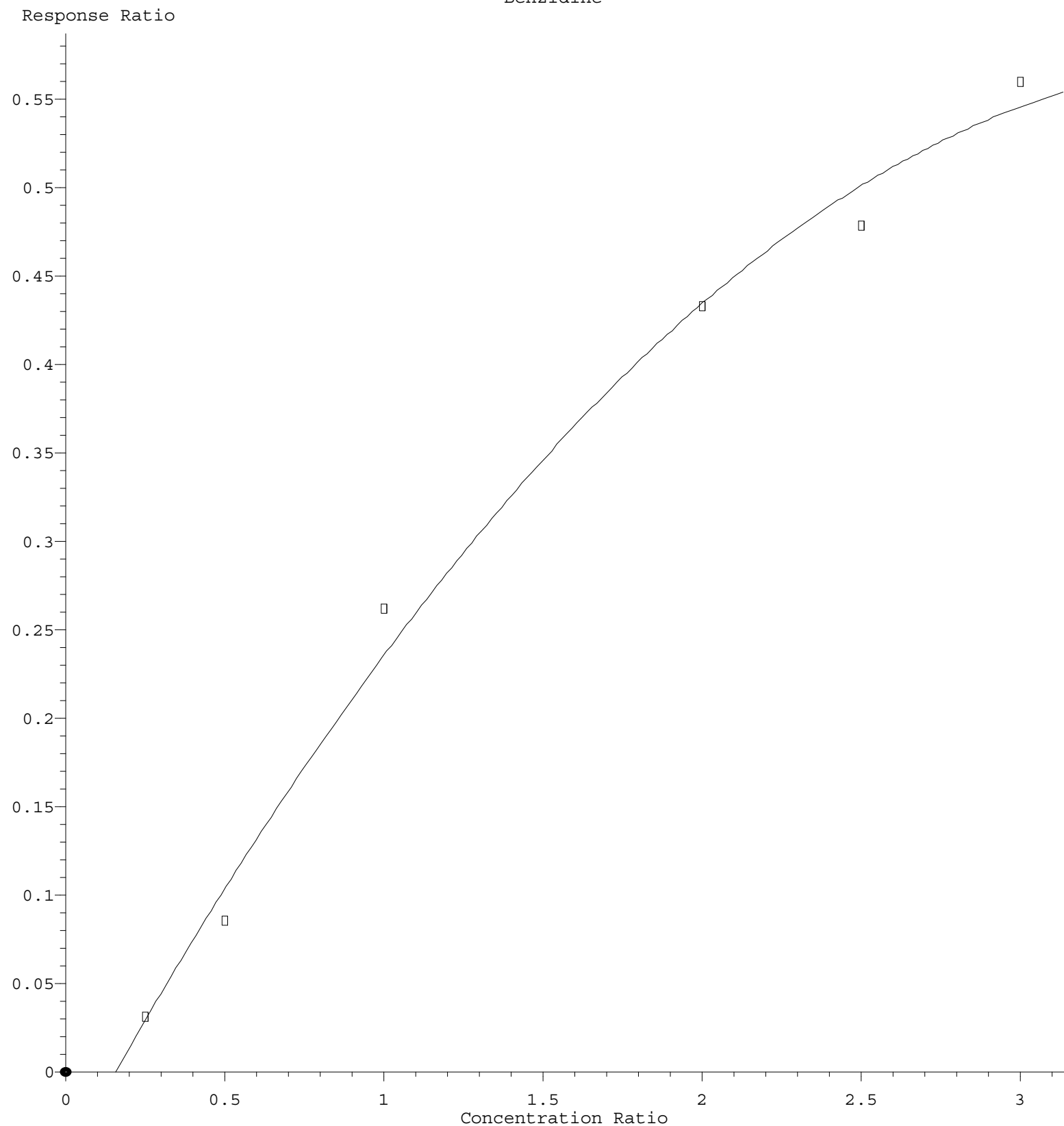
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.585	0.584	0.595	0.571	0.546	0.563	0.531	0.568	4.05	
41) P	Hexachlorocycl...	0.153	0.176	0.205	0.218	0.213	0.213	0.207	0.198	12.08	
42) S	2,4,6-Tribromo...	0.248	0.243	0.244	0.230	0.219	0.230	0.219	0.233	5.05	
43) C	2,4,6-Trichlor...	0.380	0.389	0.395	0.378	0.362	0.375	0.357	0.377	3.55	
44)	2,4,5-Trichlor...	0.416	0.412	0.420	0.413	0.400	0.419	0.394	0.411	2.43	
45) S	2-Fluorobiphenyl	1.518	1.488	1.440	1.322	1.239	1.267	1.171	1.349	9.91	
46)	1,1'-Biphenyl	1.537	1.533	1.512	1.432	1.355	1.395	1.306	1.438	6.37	
47)	2-Chloronaphth...	1.226	1.222	1.216	1.136	1.088	1.125	1.062	1.154	5.87	
48)	2-Nitroaniline	0.284	0.299	0.302	0.289	0.276	0.294	0.278	0.289	3.48	
49)	Acenaphthylene	1.781	1.758	1.747	1.627	1.549	1.599	1.497	1.651	6.78	
50)	Dimethylphthalate	1.411	1.399	1.384	1.302	1.236	1.304	1.242	1.325	5.53	
51)	2,6-Dinitrotol...	0.313	0.320	0.319	0.300	0.288	0.303	0.286	0.304	4.54	
52) C	Acenaphthene	1.135	1.112	1.098	1.028	0.972	1.016	0.958	1.046	6.70	
53)	3-Nitroaniline	0.282	0.299	0.305	0.291	0.279	0.294	0.278	0.290	3.55	
54) P	2,4-Dinitrophenol		0.117	0.139	0.151	0.155	0.160	0.166	0.148	11.97	
55)	Dibenzofuran	1.751	1.730	1.714	1.582	1.493	1.545	1.424	1.606	7.96	
56) P	4-Nitrophenol	0.142	0.169	0.202	0.207	0.199	0.221	0.210	0.193	14.30	
57)	2,4-Dinitrotol...	0.398	0.419	0.426	0.396	0.382	0.408	0.380	0.401	4.36	
58)	Fluorene	1.417	1.403	1.389	1.267	1.194	1.246	1.139	1.294	8.52	
59)	2,3,4,6-Tetrac...	0.316	0.334	0.337	0.331	0.311	0.327	0.309	0.324	3.53	
60)	Diethylphthalate	1.360	1.340	1.328	1.226	1.173	1.231	1.153	1.259	6.66	
61)	4-Chlorophenyl...	0.720	0.702	0.696	0.640	0.606	0.624	0.584	0.653	8.09	
62)	4-Nitroaniline	0.295	0.303	0.303	0.259	0.227	0.246	0.207	0.263	14.72	
63)	Azobenzene	1.147	1.152	1.145	1.061	1.012	1.072	0.984	1.082	6.33	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.105	0.115	0.132	0.130	0.131	0.135	0.130	0.125	8.88	
66) c	n-Nitrosodiphe...	0.647	0.644	0.654	0.623	0.608	0.608	0.573	0.622	4.59	
67)	4-Bromophenyl-...	0.240	0.237	0.243	0.234	0.230	0.233	0.223	0.234	2.86	
68)	Hexachlorobenzene	0.270	0.268	0.273	0.258	0.253	0.259	0.242	0.260	4.19	
69)	Atrazine	0.154	0.173	0.182	0.178	0.172	0.178	0.166	0.172	5.56	
70) C	Pentachlorophenol	0.113	0.119	0.139	0.140	0.142	0.147	0.144	0.135	9.90	
71)	Phenanthrene	1.103	1.059	1.063	0.993	0.957	0.971	0.897	1.006	7.16	
72)	Anthracene	1.087	1.057	1.075	0.981	0.958	0.966	0.900	1.003	6.99	
73)	Carbazole	1.019	0.998	0.999	0.908	0.879	0.901	0.821	0.932	7.96	
74)	Di-n-butylphth...	1.200	1.180	1.190	1.097	1.060	1.081	0.979	1.112	7.36	
75) C	Fluoranthene	1.224	1.166	1.157	1.025	0.973	0.997	0.888	1.061	11.53	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.125	0.171	0.262	0.216	0.191	0.187		0.192	23.81	
78)	Pyrene	1.617	1.640	1.814	1.790	1.689	1.751	1.592	1.699	5.15	
79) S	Terphenyl-d14	1.388	1.397	1.488	1.441	1.334	1.393	1.237	1.383	5.79	
80)	Butylbenzylphth...	0.607	0.615	0.661	0.635	0.600	0.625	0.575	0.617	4.44	
81)	Benzo(a)anthra...	1.368	1.324	1.367	1.311	1.252	1.291	1.231	1.306	4.04	
82)	3,3'-Dichlorob...	0.385	0.389	0.392	0.350	0.328	0.335	0.270	0.350	12.59	
83)	Chrysene	1.310	1.260	1.274	1.227	1.173	1.226	1.163	1.233	4.31	
84)	Bis(2-ethylhex...	0.844	0.860	0.904	0.855	0.804	0.841	0.768	0.839	5.16	
85) c	Di-n-octyl pht...	1.272	1.199	1.260	1.222	1.206	1.248	1.202	1.230	2.43	

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86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.022	1.076	1.210	1.253	1.259	1.321	1.298	1.205	9.44	
88)	Benzo(b)fluora...	1.285	1.270	1.313	1.171	1.191	1.246	1.150	1.232	5.03	
89)	Benzo(k)fluora...	1.311	1.261	1.220	1.177	1.071	1.099	1.057	1.171	8.42	
90) C	Benzo(a)pyrene	1.064	1.031	1.091	1.018	0.992	1.026	0.987	1.030	3.62	
91)	Dibenzo(a,h)an...	0.836	0.876	1.003	1.039	1.037	1.080	1.052	0.989	9.55	
92)	Benzo(g,h,i)pe...	0.838	0.879	1.013	1.046	1.064	1.106	1.085	1.005	10.41	

(#) = Out of Range

Benzidine



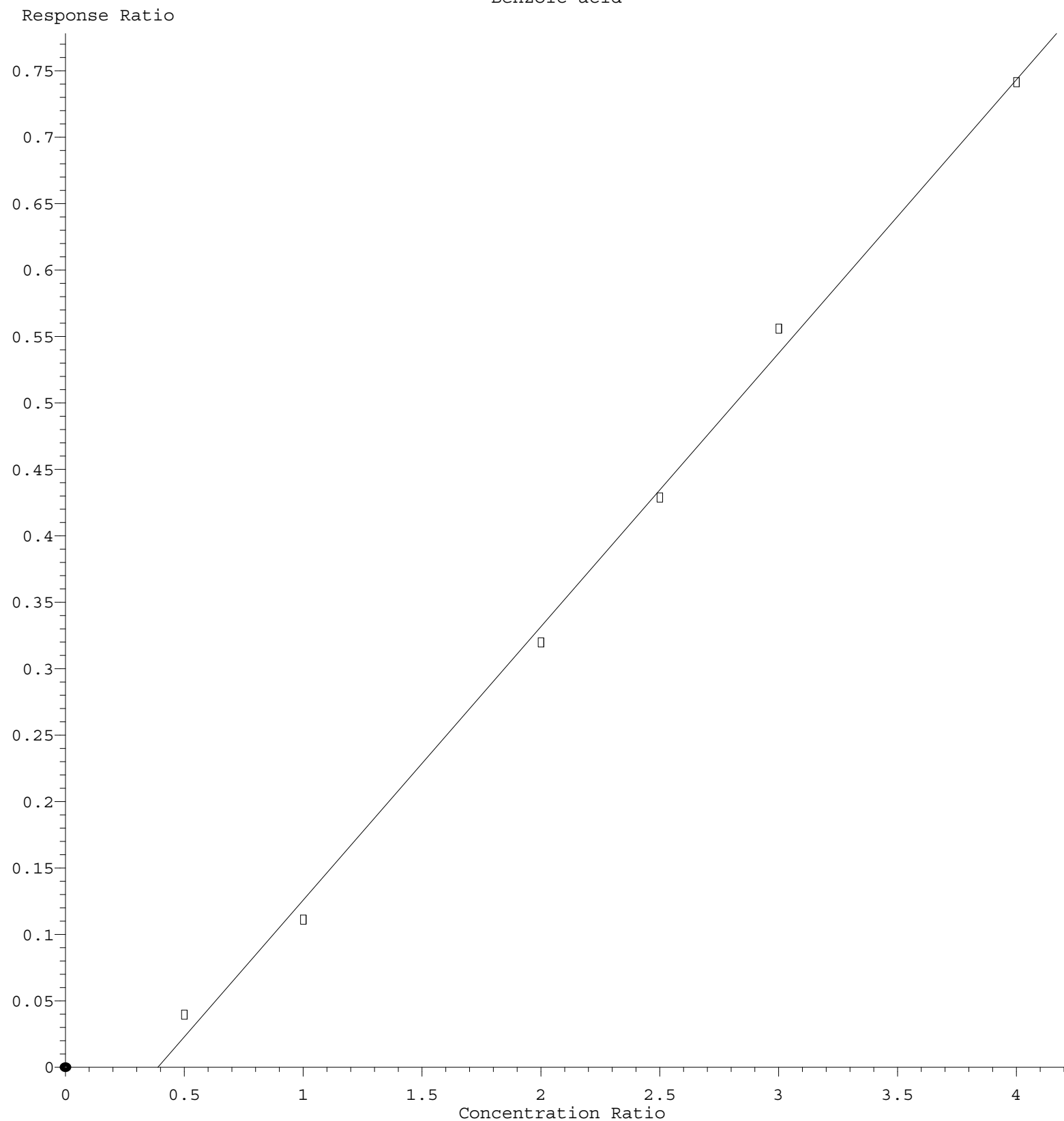
$$R = -4.371e-002 A^2 + 3.299e-001 A - 5.048e-002$$

Coef of Det (r^2) = 0.992711 Curve Fit: Quadratic

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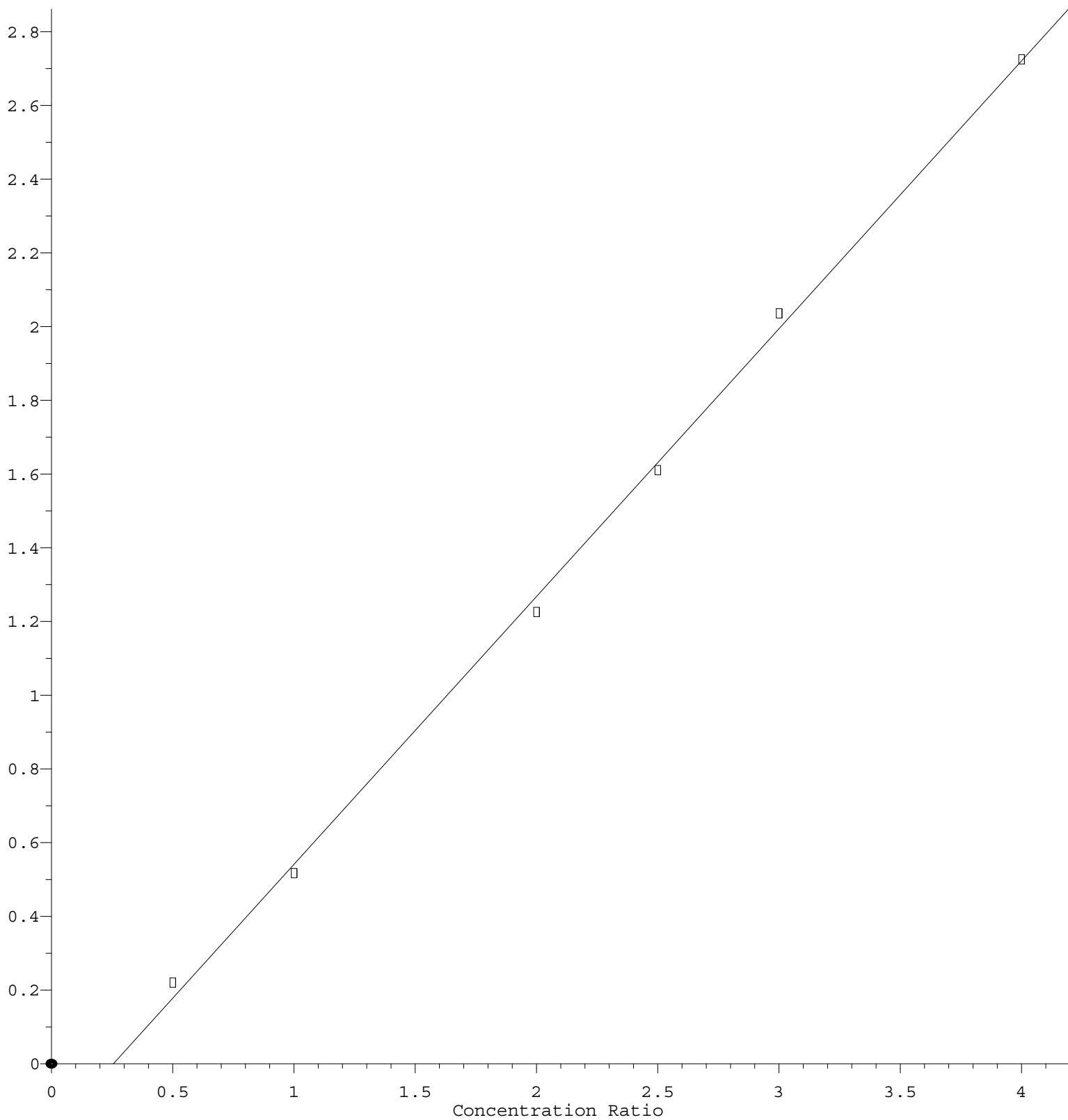
Benzoic acid



Response = 2.060e-001 * Amt - 8.019e-002
 Coef of Det (r^2) = 0.997141 Curve Fit: Linear
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Benzyl Alcohol

Response Ratio



$$\text{Response} = 7.266\text{e-}001 * \text{Amt} - 1.852\text{e-}001$$

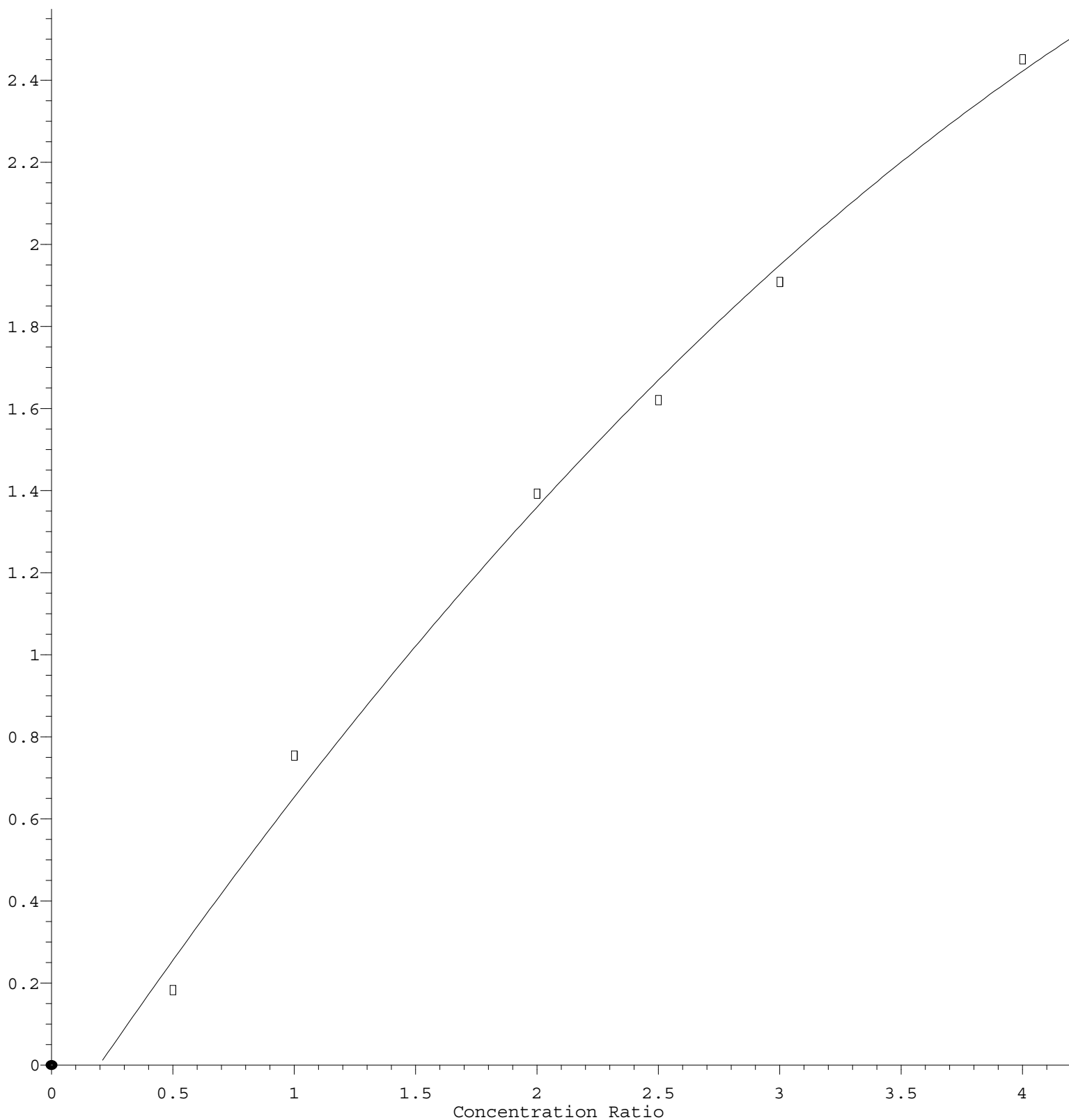
Coef of Det (r^2) = 0.998566 Curve Fit: Linear

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Aniline

Response Ratio



$R = -5.861e-002 A^2 + 8.827e-001 A - 1.713e-001$
 Coef of Det (r^2) = 0.993507 Curve Fit: Quadratic
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