

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF041323.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Apr 14 05:12:08 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BF132873.D 5 =BF132874.D 10 =BF132875.D 20 =BF132876.D 40 =BF132877.D 50 =BF132878.D 60 =BF132879.D 80 =BF132880.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.707	0.674	0.665	0.661	0.591	0.608	0.574	0.640	7.71	
3)	Pyridine	1.838	1.736	1.797	1.789	1.613	1.675	1.598	1.721	5.48	
4)	n-Nitrosodimet...	0.890	0.843	0.867	0.859	0.779	0.801	0.752	0.828	6.13	
5) S	2-Fluorophenol	1.506	1.418	1.394	1.316	1.167	1.173	1.088	1.294	11.96	
6)	Aniline	2.373	2.226	2.281	2.206	1.955	2.005	1.840	2.127	9.16	
7) S	Phenol-d6	1.929	1.785	1.766	1.663	1.465	1.473	1.344	1.632	12.92	
8)	2-Chlorophenol	1.529	1.417	1.420	1.359	1.172	1.191	1.036	1.303	13.36	
9)	Benzaldehyde		1.215	1.116	0.931	0.810	0.794		0.973	19.15	
10) C	Phenol	2.174	1.982	1.970	1.880	1.640	1.623	1.514	1.826	13.08	
11)	bis(2-Chloroet...	1.619	1.500	1.485	1.388	1.249	1.251	1.134	1.375	12.47	
12)	1,3-Dichlorobe...	1.672	1.562	1.552	1.434	1.274	1.277	1.170	1.420	13.04	
13) C	1,4-Dichlorobe...	1.663	1.553	1.536	1.447	1.283	1.286	1.157	1.418	12.78	
14)	1,2-Dichlorobe...	1.629	1.472	1.464	1.329	1.163	1.147	1.010	1.316	16.69	
15)	Benzyl Alcohol	1.209	1.143	1.196	1.160	1.017	1.036	0.895	1.094	10.53	
16)	2,2'-oxybis(1-...	2.728	2.502	2.516	2.399	2.083	2.111	1.894	2.319	12.76	
17)	2-Methylphenol	1.348	1.240	1.245	1.191	1.053	1.083	1.002	1.166	10.62	
18)	Hexachloroethane	0.570	0.524	0.536	0.515	0.457	0.459	0.420	0.497	10.68	
19) P	n-Nitroso-di-n...	1.082	1.097	1.003	1.030	0.980	0.875	0.901	0.829	0.975	10.03
20)	3+4-Methylphenols	1.748	1.575	1.541	1.378	1.187	1.169	1.033	1.376	18.80	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.562	0.509	0.501	0.462	0.411	0.411	0.386	0.463	13.83	
23) S	Nitrobenzene-d5	0.415	0.394	0.405	0.392	0.361	0.364	0.344	0.382	6.86	
24)	Nitrobenzene	0.427	0.401	0.416	0.400	0.364	0.368	0.349	0.389	7.49	
25)	Isophorone	0.752	0.696	0.717	0.717	0.657	0.676	0.656	0.696	5.10	
26) C	2-Nitrophenol	0.130	0.133	0.152	0.163	0.155	0.162	0.158	0.150	8.91	
27)	2,4-Dimethylph...	0.325	0.309	0.313	0.303	0.281	0.279	0.269	0.297	7.03	
28)	bis(2-Chloroet...	0.481	0.437	0.450	0.436	0.389	0.401	0.365	0.423	9.35	
29) C	2,4-Dichloroph...	0.302	0.285	0.294	0.287	0.264	0.265	0.251	0.278	6.73	
30)	1,2,4-Trichlor...	0.336	0.312	0.316	0.303	0.280	0.282	0.267	0.299	8.05	
31)	Naphthalene	1.209	1.101	1.074	0.997	0.901	0.897	0.828	1.001	13.50	
32)	Benzoic acid		0.106	0.124	0.154	0.153	0.173	0.165	0.146	17.42	
33)	4-Chloroaniline	0.451	0.431	0.436	0.422	0.375	0.377	0.352	0.406	9.28	
34) C	Hexachlorobuta...	0.193	0.178	0.177	0.174	0.159	0.162	0.154	0.171	7.93	
35)	Caprolactam	0.076	0.073	0.080	0.084	0.079	0.084	0.080	0.079	4.93	
36) C	4-Chloro-3-met...	0.305	0.286	0.298	0.292	0.270	0.274	0.262	0.284	5.52	
37)	2-Methylnaphth...	0.812	0.733	0.726	0.668	0.605	0.597	0.554	0.671	13.62	
38)	1-Methylnaphth...	0.747	0.684	0.676	0.637	0.559	0.560	0.516	0.626	13.28	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.679	0.627	0.630	0.595	0.545	0.561	0.515	0.593	9.57	
41) P	Hexachlorocycl...	0.260	0.281	0.307	0.326	0.310	0.328	0.325	0.305	8.45	
42) S	2,4,6-Tribromo...	0.189	0.183	0.201	0.205	0.196	0.202	0.197	0.196	3.98	
43) C	2,4,6-Trichlor...	0.373	0.360	0.388	0.382	0.353	0.361	0.346	0.366	4.21	
44)	2,4,5-Trichlor...	0.441	0.432	0.448	0.452	0.407	0.415	0.394	0.427	5.12	
45) S	2-Fluorobiphenyl	1.694	1.552	1.482	1.299	1.163	1.148	1.026	1.338	18.27	
46)	1,1'-Biphenyl	1.940	1.789	1.794	1.643	1.479	1.469	1.323	1.634	13.49	
47)	2-Chloronaphth...	1.381	1.283	1.279	1.200	1.100	1.106	1.025	1.196	10.56	
48)	2-Nitroaniline	0.276	0.297	0.354	0.381	0.362	0.375	0.365	0.344	11.84	
49)	Acenaphthylene	2.215	2.066	2.045	1.931	1.730	1.736	1.592	1.902	11.73	
50)	Dimethylphthalate	1.478	1.391	1.431	1.380	1.274	1.285	1.219	1.351	6.94	
51)	2,6-Dinitrotol...	0.276	0.287	0.313	0.314	0.290	0.303	0.287	0.296	4.93	
52) C	Acenaphthene	1.433	1.307	1.317	1.250	1.132	1.151	1.058	1.235	10.45	
53)	3-Nitroaniline	0.321	0.318	0.358	0.366	0.340	0.358	0.342	0.343	5.44	
54) P	2,4-Dinitrophenol		0.080	0.108	0.131	0.129	0.140	0.143	0.122	19.53	
55)	Dibenzofuran	2.042	1.867	1.863	1.712	1.570	1.571	1.442	1.724	12.25	
56) P	4-Nitrophenol	0.233	0.241	0.273	0.282	0.260	0.274	0.261	0.261	6.96	
57)	2,4-Dinitrotol...	0.315	0.332	0.391	0.394	0.381	0.385	0.364	0.366	8.49	
58)	Fluorene	1.540	1.409	1.363	1.263	1.120	1.116	1.023	1.262	14.75	
59)	2,3,4,6-Tetrac...	0.333	0.325	0.347	0.340	0.317	0.332	0.307	0.329	4.17	
60)	Diethylphthalate	1.330	1.260	1.312	1.282	1.178	1.211	1.124	1.242	6.01	
61)	4-Chlorophenyl...	0.718	0.680	0.677	0.625	0.557	0.560	0.513	0.619	12.40	
62)	4-Nitroaniline	0.287	0.292	0.335	0.349	0.328	0.345	0.330	0.324	7.62	
63)	Azobenzene	1.635	1.482	1.527	1.430	1.305	1.322	1.226	1.418	10.07	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.069	0.090	0.106	0.102	0.110	0.108	0.097	16.00	
66) c	n-Nitrosodiphe...	0.737	0.704	0.716	0.681	0.605	0.619	0.573	0.662	9.52	
67)	4-Bromophenyl-...	0.243	0.233	0.233	0.235	0.212	0.221	0.209	0.227	5.76	
68)	Hexachlorobenzene	0.257	0.236	0.245	0.242	0.218	0.228	0.213	0.234	6.62	
69)	Atrazine	0.173	0.174	0.190	0.190	0.175	0.180	0.171	0.179	4.44	
70) C	Pentachlorophenol	0.140	0.138	0.160	0.165	0.154	0.164	0.156	0.154	7.00	
71)	Phenanthrene	1.288	1.182	1.180	1.110	0.982	1.009	0.917	1.096	12.00	
72)	Anthracene	1.289	1.196	1.211	1.125	1.017	1.032	0.943	1.116	11.09	
73)	Carbazole	1.098	1.048	1.048	1.008	0.894	0.918	0.853	0.981	9.42	
74)	Di-n-butylphth...	0.916	0.915	1.047	1.066	0.969	1.015	0.955	0.983	6.19	
75) C	Fluoranthene	1.200	1.141	1.172	1.124	0.999	1.034	0.937	1.087	9.01	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.205	0.237	0.289	0.333	0.360	0.337	0.326	0.298	19.28	
78)	Pyrene	1.778	1.655	1.732	1.787	1.635	1.750	1.735	1.725	3.38	
79) S	Terphenyl-d14	1.313	1.187	1.228	1.253	1.151	1.209	1.167	1.215	4.55	
80)	Butylbenzylpht...	0.156	0.182	0.275	0.359	0.362	0.410	0.423	0.310	34.77	
81)	Benzo(a)anthra...	1.464	1.390	1.458	1.445	1.309	1.370	1.296	1.390	5.01	
82)	3,3'-Dichlorob...	0.207	0.245	0.321	0.333	0.316	0.334	0.327	0.297	17.04	
83)	Chrysene	1.474	1.349	1.417	1.390	1.271	1.322	1.258	1.355	5.78	
84)	Bis(2-ethylhex...	0.286	0.322	0.423	0.502	0.477	0.517	0.524	0.436	22.17	
85) c	Di-n-octyl pht...		0.367	0.552	0.725	0.714	0.818	0.892	0.678	28.11	

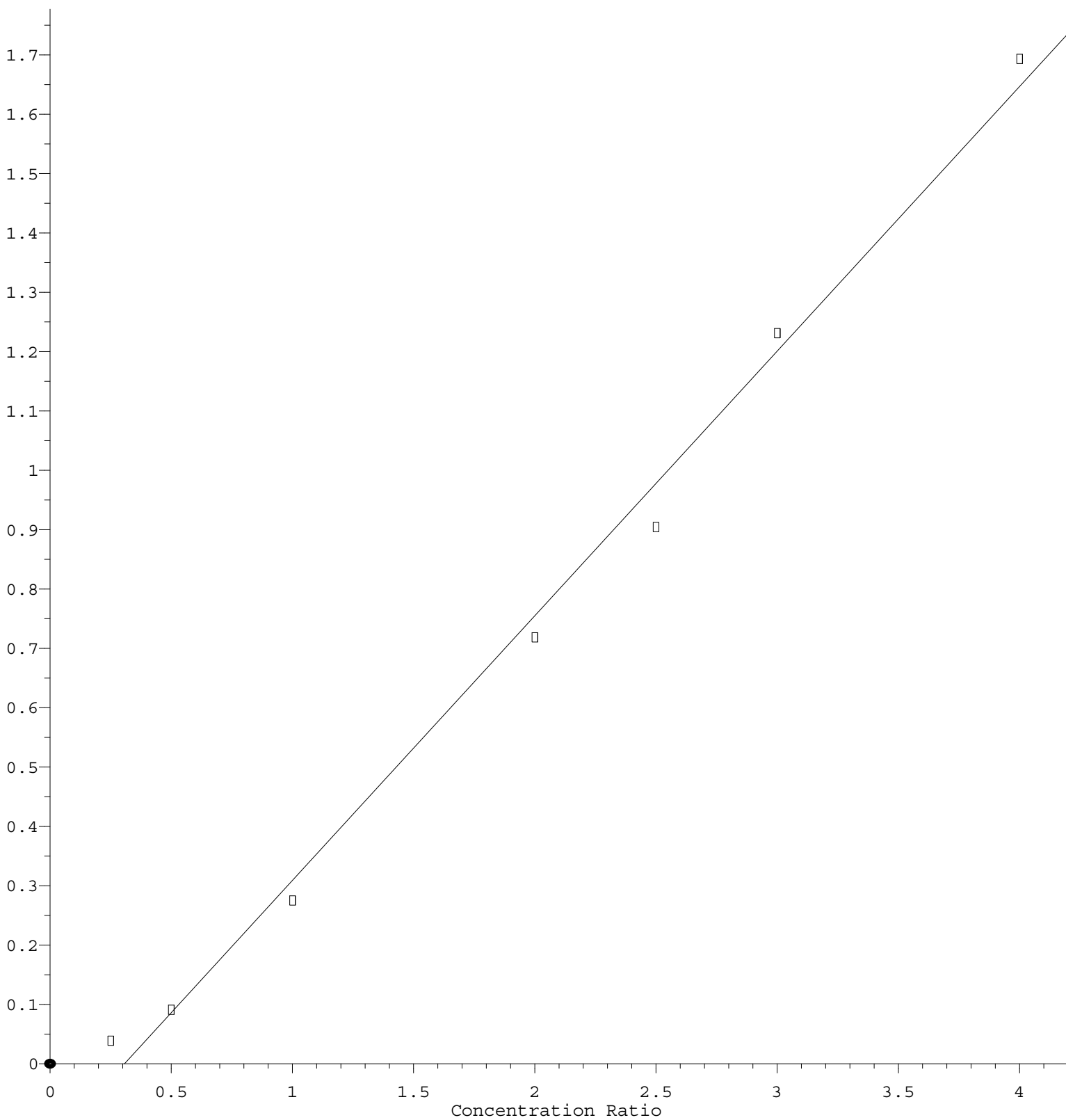
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86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	0.873	0.917	1.111	1.342	1.292	1.372	1.376	1.183	18.33	
88)	Benzo(b)fluora...	1.292	1.232	1.407	1.345	1.281	1.271	1.171	1.286	5.92	
89)	Benzo(k)fluora...	1.412	1.431	1.409	1.391	1.183	1.195	1.178	1.314	9.22	
90) C	Benzo(a)pyrene	1.099	1.122	1.212	1.241	1.151	1.170	1.133	1.161	4.34	
91)	Dibenzo(a,h)an...	0.751	0.772	0.935	1.126	1.072	1.129	1.126	0.987	17.07	
92)	Benzo(g,h,i)pe...	0.725	0.756	0.920	1.126	1.075	1.149	1.152	0.986	18.86	

(#) = Out of Range

Butylbenzylphthalate

Response Ratio



$$\text{Response} = 4.459\text{e-}001 * \text{Amt} - 1.367\text{e-}001$$

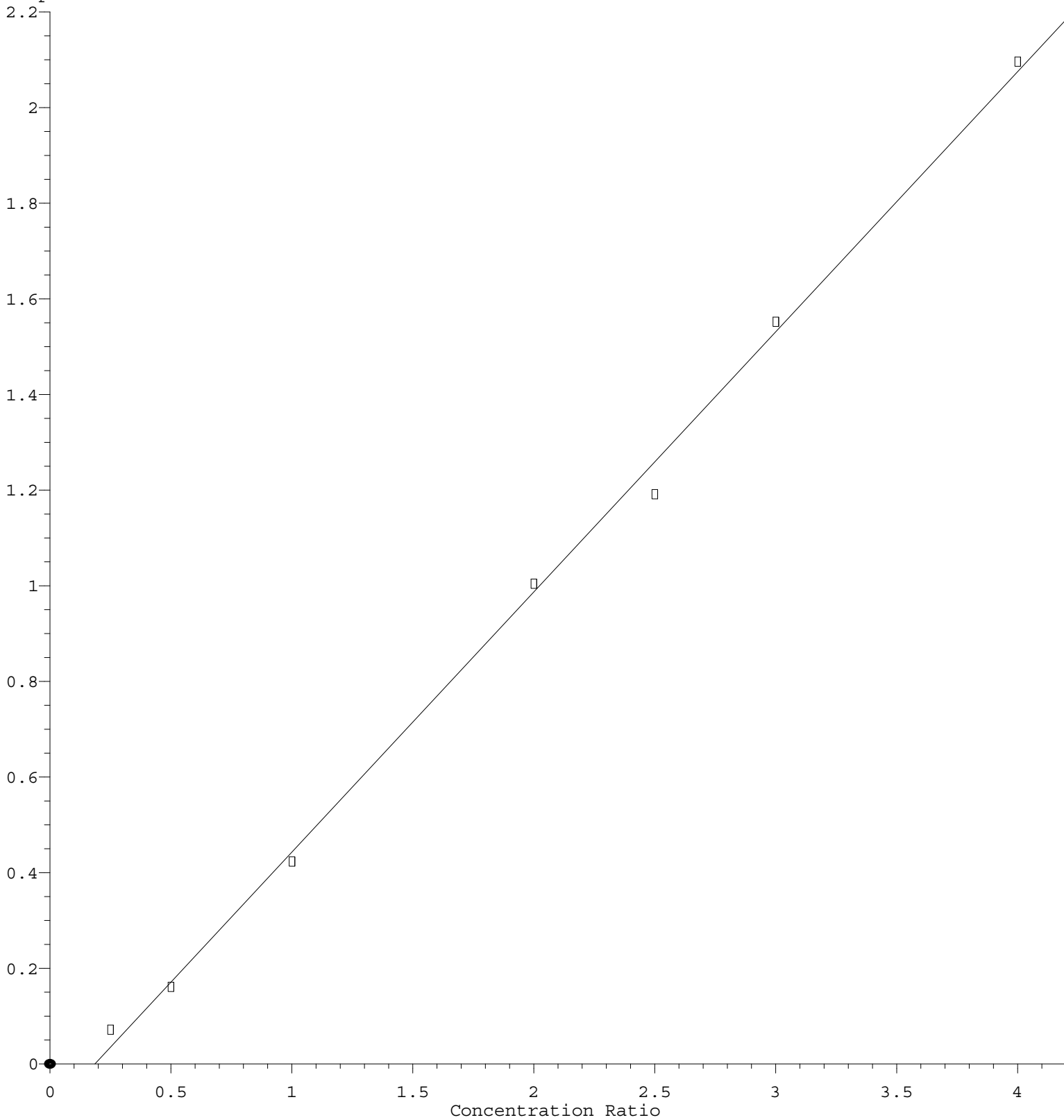
Coef of Det (r^2) = 0.993432 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 5.440\text{e-}001 * \text{Amt} - 1.012\text{e-}001$$

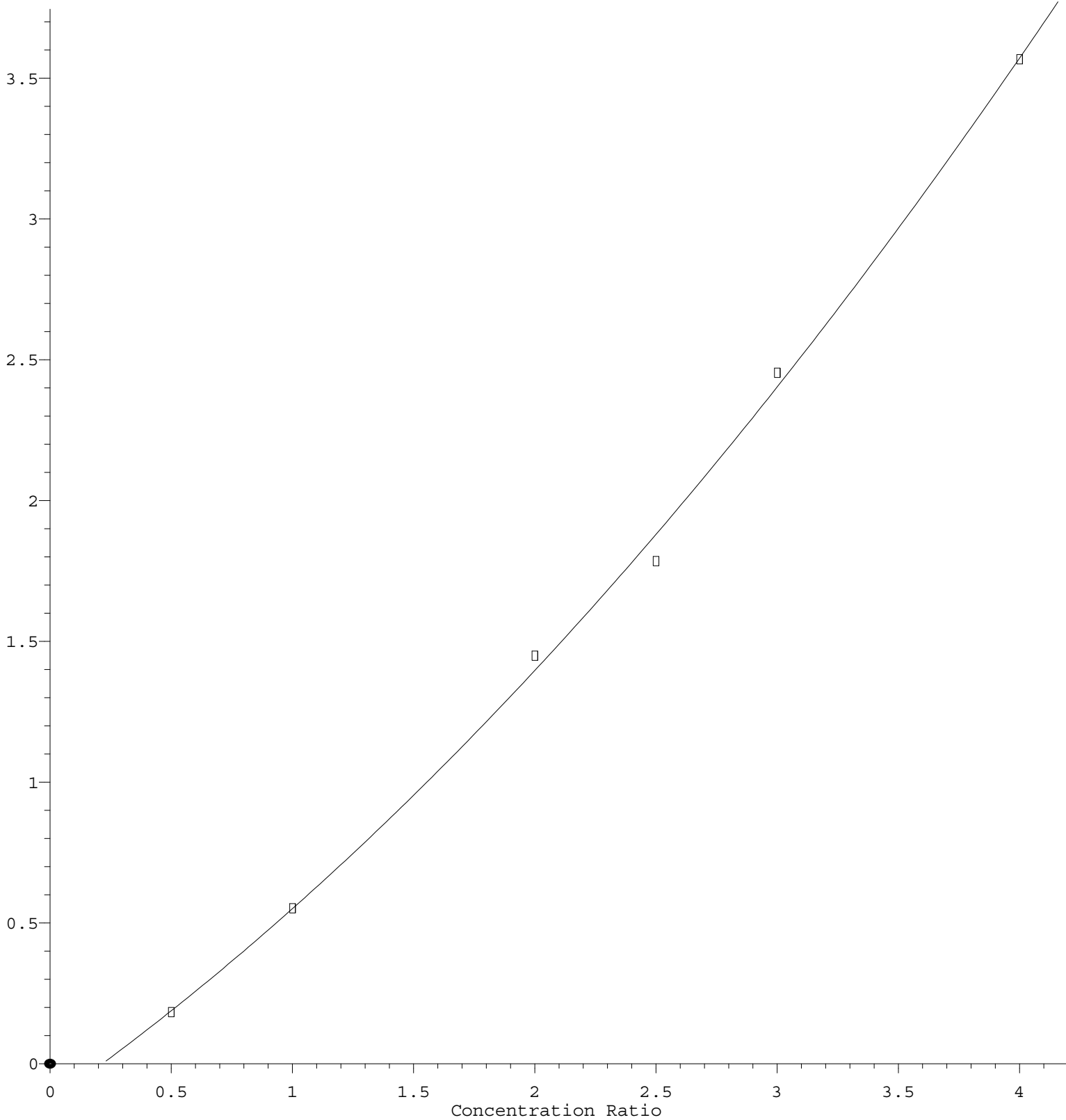
Coef of Det (r^2) = 0.997771 Curve Fit: Linear

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Di-n-octyl phthalate

Response Ratio



$R = 8.049e-002 A^2 + 6.044e-001 A - 1.342e-001$
 Coef of Det (r^2) = 0.998153 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF041323.M
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