

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG082724.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Aug 28 00:59:59 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BG062579.D 5 =BG062580.D 10 =BG062581.D 20 =BG062582.D 40 =BG062583.D 50 =BG062584.D 60 =BG062585.D 80 =BG062586.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.663	0.532	0.557	0.587	0.465	0.474	0.439	0.531	14.89	
3)	Pyridine	1.515	1.396	1.598	1.603	1.333	1.365	1.309	1.445	8.60	
4)	n-Nitrosodimet...	0.858	0.728	0.838	0.836	0.711	0.721	0.696	0.770	9.15	
5) S	2-Fluorophenol	1.194	1.113	1.255	1.006	0.997	1.119	1.120	1.115	8.32	
6)	Aniline	1.445	1.506	1.603	1.495	1.502	1.544	1.398	1.499	4.40	
7) S	Phenol-d6	1.523	1.539	1.692	1.619	1.566	1.629	1.547	1.588	3.84	
8)	2-Chlorophenol	1.138	1.180	1.245	1.243	1.179	1.247	1.176	1.201	3.63	
9)	Benzaldehyde	1.161	1.161	1.129	1.011	0.927	0.883	0.745	1.002	15.91	
10) C	Phenol	1.624	1.587	1.727	1.674	1.614	1.709	1.602	1.648	3.34	
11)	bis(2-Chloroet...	1.322	1.372	1.408	1.385	1.277	1.350	1.267	1.340	4.03	
12)	1,3-Dichlorobe...	1.482	1.397	1.479	1.421	1.347	1.402	1.317	1.406	4.38	
13) C	1,4-Dichlorobe...	1.523	1.408	1.500	1.460	1.367	1.437	1.337	1.433	4.73	
14)	1,2-Dichlorobe...	1.497	1.357	1.437	1.452	1.367	1.391	1.315	1.402	4.48	
15)	Benzyl Alcohol	0.946	0.979	1.139	1.165	1.145	1.216	1.149	1.106	9.17	
16)	2,2'-oxybis(1-...	2.442	2.387	2.647	2.681	2.545	2.631	2.484	2.545	4.41	
17)	2-Methylphenol	1.065	1.004	1.140	1.163	1.100	1.158	1.075	1.101	5.26	
18)	Hexachloroethane	0.458	0.421	0.493	0.501	0.486	0.503	0.485	0.478	6.11	
19) P	n-Nitroso-di-n...	0.819	0.928	0.996	1.136	1.189	1.121	1.198	1.120	1.063	12.73
20)	3+4-Methylphenols	1.362	1.382	1.578	1.602	1.526	1.603	1.484	1.505	6.69	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.528	0.535	0.522	0.509	0.458	0.470	0.473	0.499	6.31	
23) S	Nitrobenzene-d5	0.251	0.266	0.298	0.318	0.304	0.329	0.343	0.301	10.97	
24)	Nitrobenzene	0.267	0.288	0.324	0.350	0.339	0.350	0.366	0.326	11.11	
25)	Isophorone	0.707	0.705	0.738	0.796	0.708	0.742	0.721	0.731	4.40	
26) C	2-Nitrophenol	0.070	0.079	0.098	0.112	0.111			0.094	20.07	
27)	2,4-Dimethylph...	0.171	0.176	0.194	0.200	0.193	0.203	0.200	0.191	6.58	
28)	bis(2-Chloroet...	0.406	0.408	0.439	0.442	0.415	0.429	0.428	0.424	3.43	
29) C	2,4-Dichloroph...	0.246	0.260	0.287	0.302	0.289	0.298	0.297	0.283	7.50	
30)	1,2,4-Trichlor...	0.363	0.344	0.351	0.360	0.330	0.344	0.327	0.346	3.99	
31)	Naphthalene	1.054	0.994	1.034	1.055	0.960	0.981	0.909	0.998	5.38	
32)	Benzoic acid		0.119	0.150	0.156	0.168	0.172	0.183	0.158	14.25	
33)	4-Chloroaniline	0.341	0.348	0.393	0.394	0.367	0.351	0.344	0.363	6.25	
34) C	Hexachlorobuta...	0.250	0.237	0.234	0.225	0.206	0.209	0.217	0.225	7.02	
35)	Caprolactam	0.062	0.068	0.081	0.080	0.075	0.083	0.084	0.076	10.76	
36) C	4-Chloro-3-met...	0.279	0.306	0.332	0.324	0.292	0.308	0.305	0.306	5.83	
37)	2-Methylnaphth...	0.728	0.699	0.736	0.679	0.614	0.625	0.627	0.673	7.60	
38)	1-Methylnaphth...	0.721	0.710	0.729	0.687	0.610	0.629	0.626	0.673	7.49	

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG082724.M

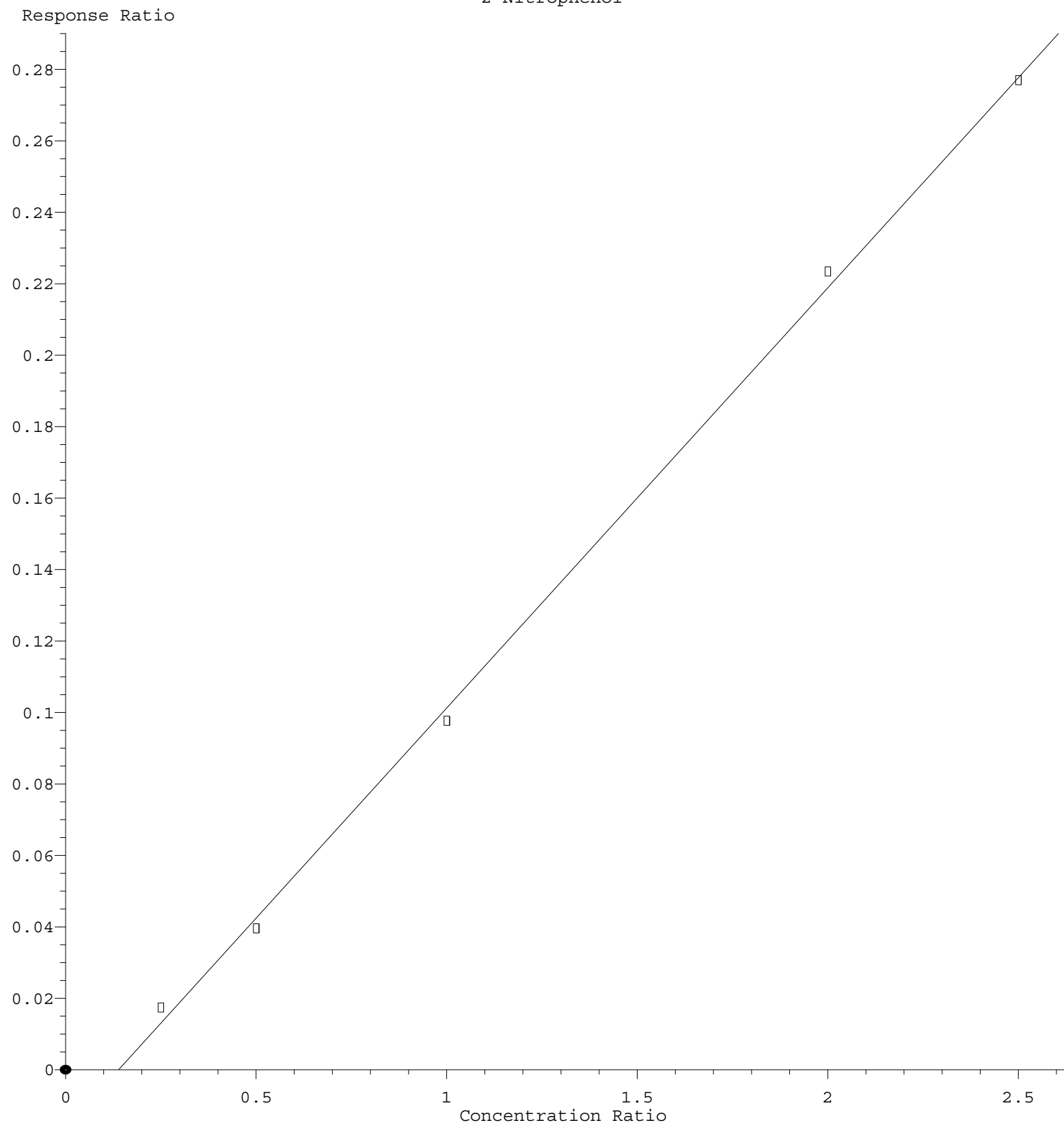
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.589	0.571	0.571	0.593	0.548	0.559	0.556	0.570	2.94	
41) P	Hexachlorocycl...	0.110	0.121	0.133	0.154	0.154	0.159	0.171	0.143	15.46	
42) S	2,4,6-Tribromo...	0.197	0.209	0.225	0.230	0.221	0.235	0.229	0.221	6.15	
43) C	2,4,6-Trichlor...	0.273	0.292	0.329	0.358	0.337	0.350	0.344	0.326	9.72	
44)	2,4,5-Trichlor...	0.349	0.369	0.383	0.407	0.386	0.401	0.396	0.384	5.24	
45) S	2-Fluorobiphenyl	1.279	1.255	1.272	1.262	1.168	1.161	1.117	1.216	5.40	
46)	1,1'-Biphenyl	1.391	1.346	1.363	1.380	1.284	1.328	1.277	1.338	3.34	
47)	2-Chloronaphth...	1.104	1.062	1.074	1.092	1.032	1.074	1.038	1.068	2.48	
48)	2-Nitroaniline	0.128	0.151	0.182	0.222	0.230			0.183	24.12	
49)	Acenaphthylene	1.599	1.608	1.695	1.706	1.586	1.626	1.577	1.628	3.18	
50)	Dimethylphthalate	1.216	1.236	1.360	1.369	1.286	1.355	1.276	1.300	4.80	
51)	2,6-Dinitrotol...	0.147	0.178	0.211	0.241	0.241	0.261	0.265	0.221	20.10	
52) C	Acenaphthene	1.039	0.992	1.043	1.041	0.972	0.984	0.961	1.005	3.53	
53)	3-Nitroaniline	0.153	0.163	0.211	0.234	0.237	0.257	0.255	0.216	19.68	
54) P	2,4-Dinitrophenol		0.082	0.104	0.124	0.122	0.139	0.139	0.118	18.63	
55)	Dibenzofuran	1.789	1.755	1.797	1.789	1.650	1.692	1.586	1.722	4.76	
56) P	4-Nitrophenol		0.151	0.190	0.218	0.212	0.230	0.222	0.204	14.26	
57)	2,4-Dinitrotol...	0.208	0.227	0.289	0.326	0.321	0.355	0.352	0.297	19.73	
58)	Fluorene	1.415	1.400	1.451	1.394	1.283	1.300	1.224	1.353	6.16	
59)	2,3,4,6-Tetrac...	0.307	0.324	0.363	0.371	0.353	0.370	0.359	0.350	7.03	
60)	Diethylphthalate	1.160	1.103	1.283	1.318	1.254	1.335	1.266	1.245	6.78	
61)	4-Chlorophenyl...	0.788	0.737	0.752	0.729	0.676	0.688	0.662	0.719	6.31	
62)	4-Nitroaniline	0.164	0.190	0.243	0.261	0.259	0.284	0.275	0.239	18.90	
63)	Azobenzene	1.309	1.455	1.482	1.497	1.383	1.425	1.356	1.415	4.90	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.049	0.060	0.074	0.073	0.083		0.068	19.95	
66) c	n-Nitrosodiphe...	0.455	0.467	0.491	0.513	0.478	0.498	0.498	0.486	4.08	
67)	4-Bromophenyl-...	0.193	0.186	0.193	0.203	0.186	0.192	0.195	0.193	2.91	
68)	Hexachlorobenzene	0.220	0.224	0.218	0.231	0.215	0.225	0.225	0.222	2.42	
69)	Atrazine	0.154	0.144	0.149	0.131	0.120	0.121	0.104	0.132	13.74	
70) C	Pentachlorophenol	0.101	0.115	0.131	0.149	0.140	0.148	0.149	0.133	14.14	
71)	Phenanthrene	1.007	0.987	1.000	1.010	0.909	0.938	0.891	0.963	5.15	
72)	Anthracene	0.954	0.939	0.971	1.006	0.904	0.933	0.890	0.942	4.19	
73)	Carbazole	0.893	0.880	0.909	0.923	0.841	0.863	0.812	0.874	4.46	
74)	Di-n-butylphth...	0.687	0.673	0.738	0.821	0.771	0.840	0.824	0.765	8.87	
75) C	Fluoranthene	1.312	1.243	1.269	1.275	1.125	1.155	1.062	1.206	7.67	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.181	0.188	0.224	0.324	0.322			0.248	28.49	
78)	Pyrene	1.209	1.298	1.378	1.335	1.228	1.264	1.188	1.272	5.45	
79) S	Terphenyl-d14	1.006	1.026	1.076	0.994	0.889	0.890	0.816	0.957	9.72	
80)	Butylbenzylphth...	0.151	0.176	0.220	0.267	0.269	0.299	0.307	0.241	25.07	
81)	Benzo(a)anthra...	1.296	1.277	1.332	1.324	1.221	1.256	1.210	1.274	3.73	
82)	3,3'-Dichlorob...	0.278	0.302	0.330	0.361	0.348	0.375	0.364	0.337	10.59	
83)	Chrysene	1.290	1.268	1.292	1.291	1.196	1.228	1.159	1.246	4.26	
84)	Bis(2-ethylhex...	0.276	0.329	0.388	0.444	0.433	0.473	0.474	0.403	18.82	
85) c	Di-n-octyl pht...		0.567	0.692	0.799	0.779	0.844	0.879	0.760	15.00	

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG082724.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.223	1.212	1.260	1.318	1.243	1.297	1.273	1.261	3.04
88)	Benzo(b)fluora...	1.103	1.102	1.161	1.167	1.084	1.139	1.085	1.120	3.13
89)	Benzo(k)fluora...	1.110	1.082	1.134	1.187	1.094	1.091	1.083	1.111	3.41
90) C	Benzo(a)pyrene	0.981	0.954	1.001	1.042	0.958	0.986	0.971	0.985	3.05
91)	Dibenzo(a,h)an...	0.989	1.005	1.042	1.094	1.039	1.075	1.052	1.042	3.53
92)	Benzo(g,h,i)pe...	1.033	1.031	1.059	1.106	1.047	1.079	1.064	1.060	2.51

(#) = Out of Range

2-Nitrophenol



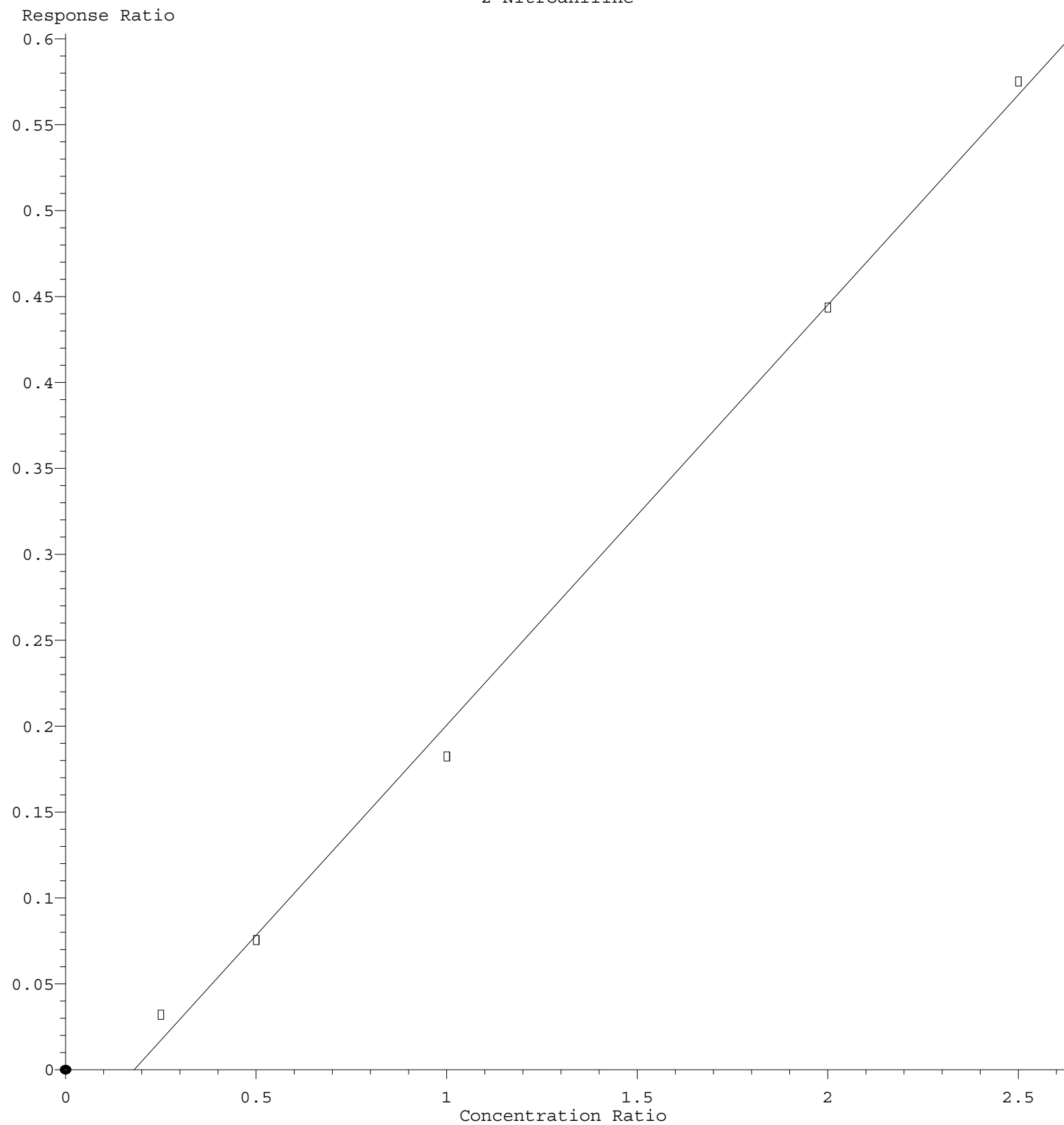
$$\text{Response} = 1.179\text{e-}001 * \text{Amt} - 1.640\text{e-}002$$

Coef of Det (r^2) = 0.998839 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG082724.M

Calibration Table Last Updated: Wed Aug 28 00:59:59 2024

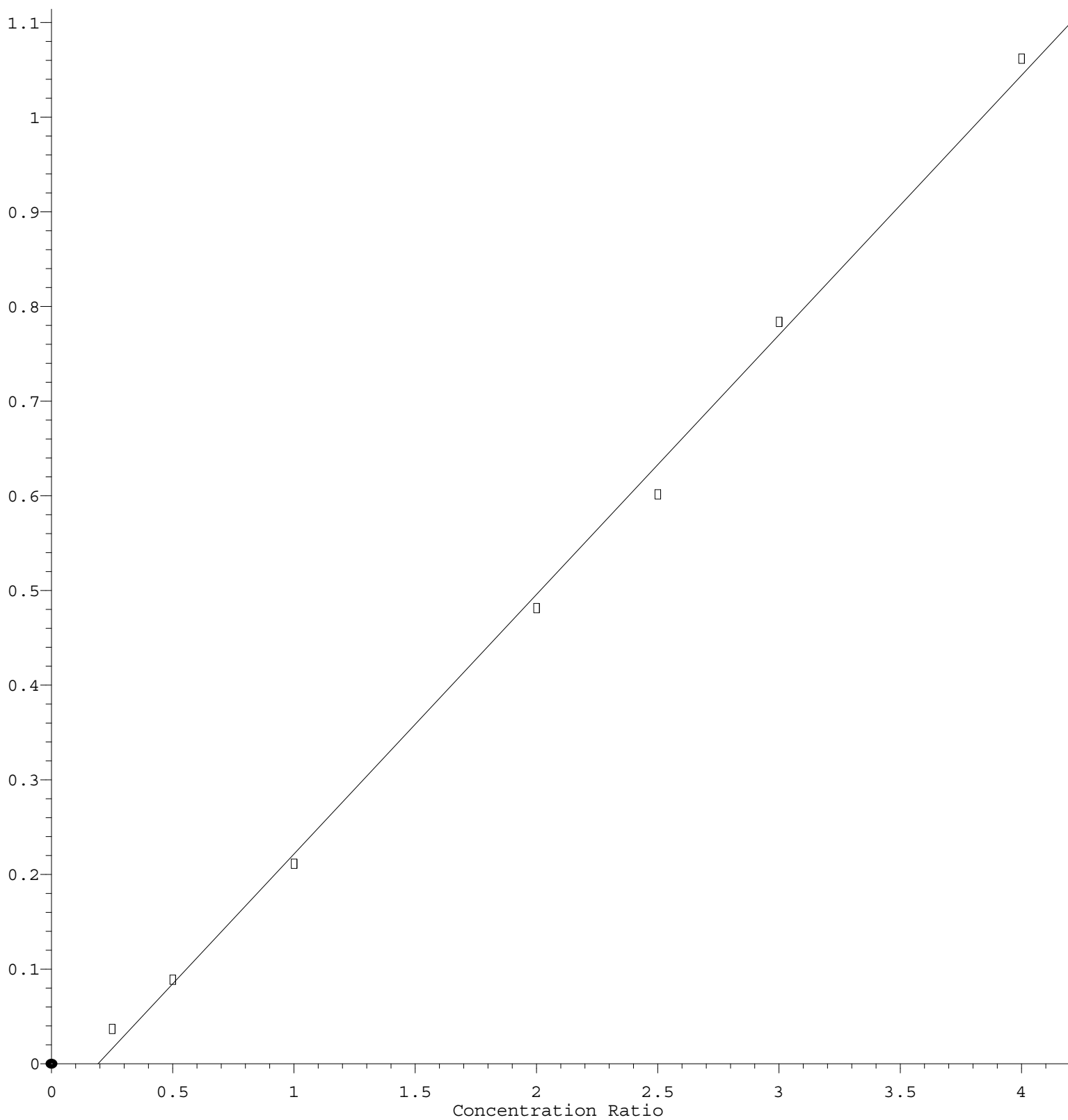
2-Nitroaniline



Response = 2.446e-001 * Amt - 4.408e-002
Coef of Det (r^2) = 0.997231 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG082724.M
Calibration Table Last Updated: Wed Aug 28 00:59:59 2024

2,6-Dinitrotoluene

Response Ratio



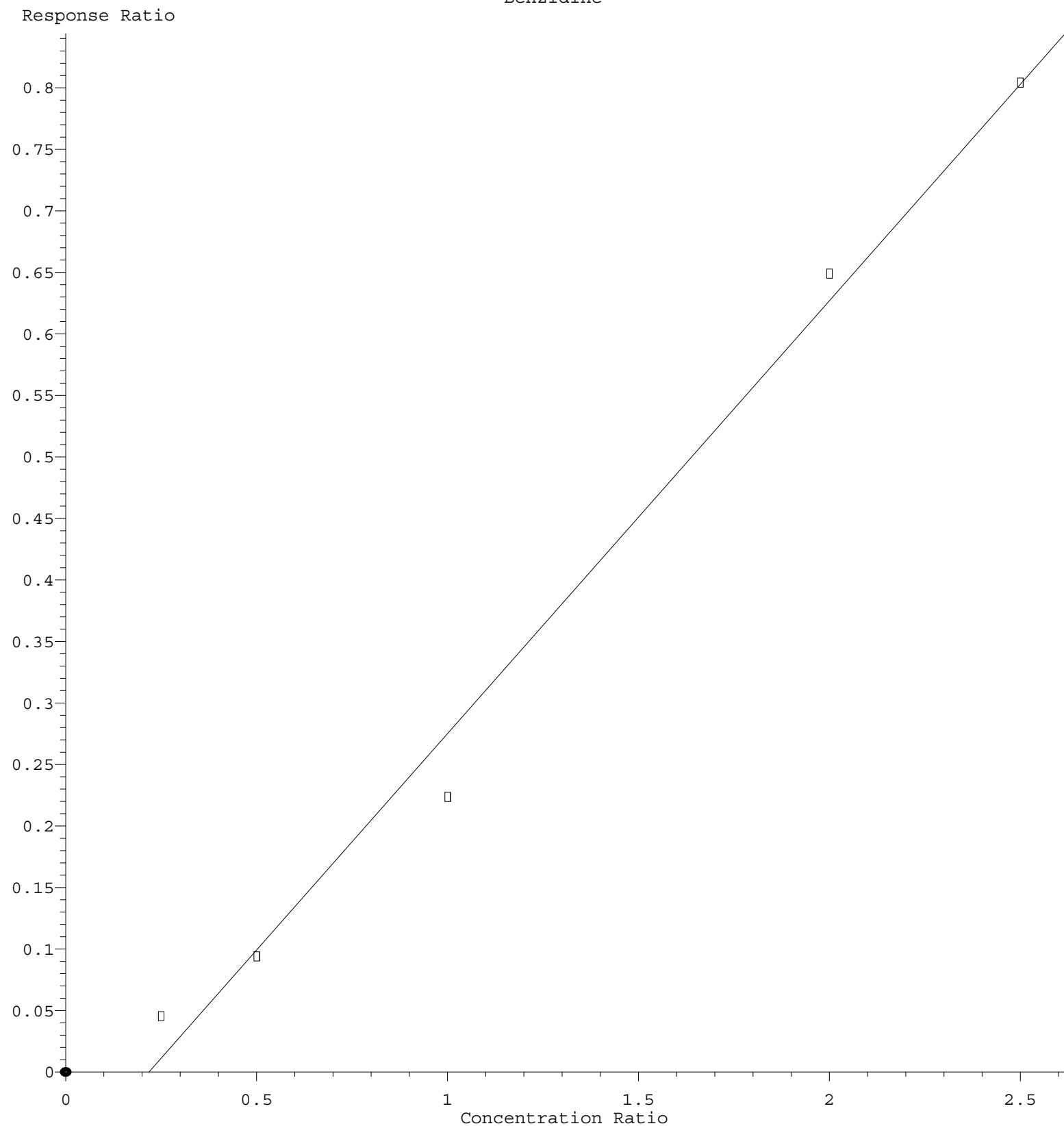
$$\text{Response} = 2.742\text{e-}001 * \text{Amt} - 5.265\text{e-}002$$

Coef of Det (r^2) = 0.997403 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG082724.M

Calibration Table Last Updated: Wed Aug 28 00:59:59 2024

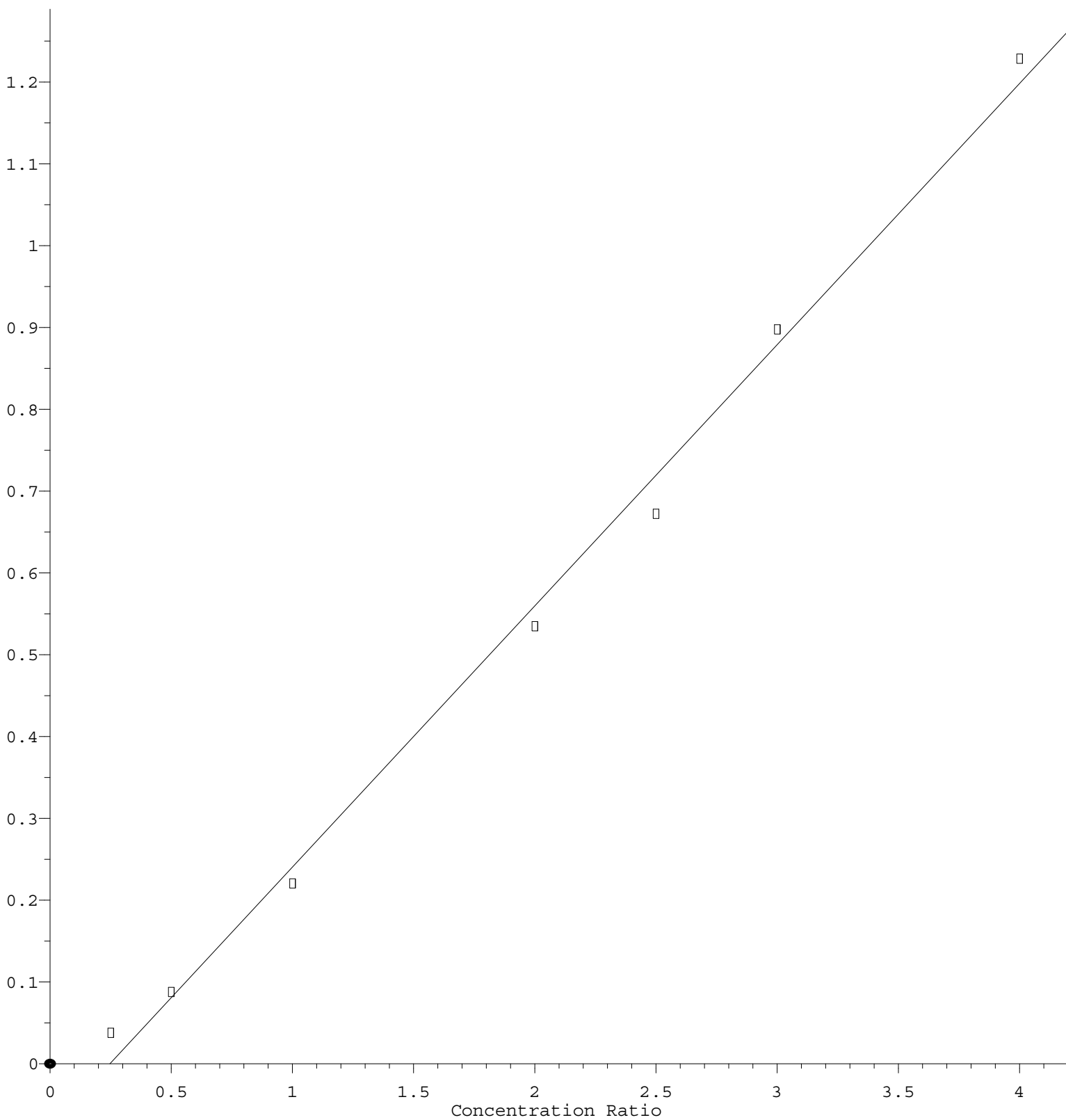
Benzidine



Response = $3.520 \times 10^{-1} \times \text{Amt} - 7.687 \times 10^{-2}$
Coef of Det (r^2) = 0.990769 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG082724.M
Calibration Table Last Updated: Wed Aug 28 00:59:59 2024

Butylbenzylphthalate

Response Ratio



$$\text{Response} = 3.193\text{e-}001 * \text{Amt} - 7.885\text{e-}002$$

Coef of Det (r^2) = 0.994982 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG082724.M

Calibration Table Last Updated: Wed Aug 28 00:59:59 2024