Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF060524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 06 05:19:29 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF138117.D 5 =BF138118.D 10 =BF138119.D 20 =BF138120.D 40 =BF138121.D 50 =BF138122.D 60 =BF138123.D 80 =BF1381
24.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.579	0.551	0.564	0.527	0.512	0.532	0.500	0.538	5.24
3)		Pyridine		1.358	1.336	1.388	1.306	1.273	1.311	1.254	1.318	3.56
4)		n-Nitrosodimet...		0.673	0.662	0.683	0.646	0.627	0.639	0.601	0.647	4.35
5)	S	2-Fluorophenol		1.267	1.240	1.270	1.161	1.108	1.147	1.022	1.174	7.82
6)		Aniline		1.584	1.523	1.567	1.499	1.474	1.498	1.393	1.505	4.20
7)	S	Phenol-d6		1.616	1.559	1.595	1.470	1.416	1.439	1.299	1.485	7.61
8)		2-Chlorophenol		1.352	1.298	1.361	1.269	1.233	1.254	1.120	1.270	6.41
9)		Benzaldehyde			1.040	0.956	0.767	0.676	0.680	0.631	0.791	21.20
10)	C	Phenol		1.638	1.577	1.626	1.517	1.469	1.497	1.355	1.525	6.48
11)		bis(2-Chloroet...		1.340	1.287	1.289	1.213	1.163	1.180	1.089	1.223	7.14
12)		1,3-Dichlorobe...		1.603	1.525	1.560	1.447	1.377	1.408	1.264	1.455	8.05
13)	C	1,4-Dichlorobe...		1.626	1.555	1.569	1.451	1.383	1.415	1.257	1.465	8.70
14)		1,2-Dichlorobe...		1.545	1.473	1.497	1.371	1.293	1.322	1.126	1.375	10.49
15)		Benzyl Alcohol		1.119	1.084	1.128	1.062	1.023	1.040	0.897	1.051	7.41
16)		2,2'-oxybis(1-...		1.983	1.862	1.917	1.774	1.710	1.731	1.591	1.795	7.47
17)		2-Methylphenol		1.083	1.038	1.071	1.015	1.001	1.018	0.968	1.028	3.88
18)		Hexachloroethane		0.508	0.499	0.527	0.502	0.496	0.507	0.461	0.500	3.98
19)	P	n-Nitroso-di-n...	0.959	1.041	0.993	1.006	0.925	0.895	0.905	0.849	0.947	6.81
20)		3+4-Methylphenols		1.413	1.355	1.409	1.298	1.214	1.230	1.033	1.279	10.50
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.530	0.500	0.504	0.456	0.426	0.432	0.377	0.460	11.64
23)	S	Nitrobenzene-d5		0.219	0.251	0.304	0.315	0.320	0.336	0.313	0.294	14.44
24)		Nitrobenzene		0.263	0.292	0.338	0.335	0.336	0.348	0.329	0.320	9.64
25)		Isophorone		0.703	0.658	0.678	0.637	0.617	0.633	0.608	0.648	5.23
26)	C	2-Nitrophenol		0.047	0.058	0.086	0.116	0.140	0.153	0.157	0.108	41.87#
27)		2,4-Dimethylph...		0.223	0.220	0.232	0.226	0.224	0.230	0.220	0.225	2.09
28)		bis(2-Chloroet...		0.426	0.405	0.421	0.391	0.378	0.388	0.352	0.394	6.51
29)	C	2,4-Dichloroph...		0.251	0.260	0.285	0.280	0.272	0.283	0.267	0.271	4.61
30)		1,2,4-Trichlor...		0.348	0.340	0.351	0.325	0.311	0.323	0.292	0.327	6.49
31)		Naphthalene		1.127	1.063	1.072	0.957	0.883	0.906	0.763	0.967	13.23
32)		Benzoic acid			0.056	0.097	0.137	0.179	0.202	0.216	0.148	42.49
33)		4-Chloroaniline		0.400	0.375	0.390	0.357	0.346	0.351	0.327	0.364	7.11
34)	C	Hexachlorobuta...		0.207	0.200	0.205	0.193	0.183	0.189	0.169	0.192	6.86
35)		Caprolactam		0.086	0.085	0.093	0.091	0.089	0.094	0.096	0.091	4.53
36)	C	4-Chloro-3-met...		0.275	0.271	0.293	0.281	0.274	0.286	0.265	0.278	3.53
37)		2-Methylnaphth...		0.743	0.708	0.715	0.647	0.606	0.622	0.524	0.652	11.70
38)		1-Methylnaphth...		0.730	0.692	0.701	0.639	0.589	0.605	0.515	0.639	11.77

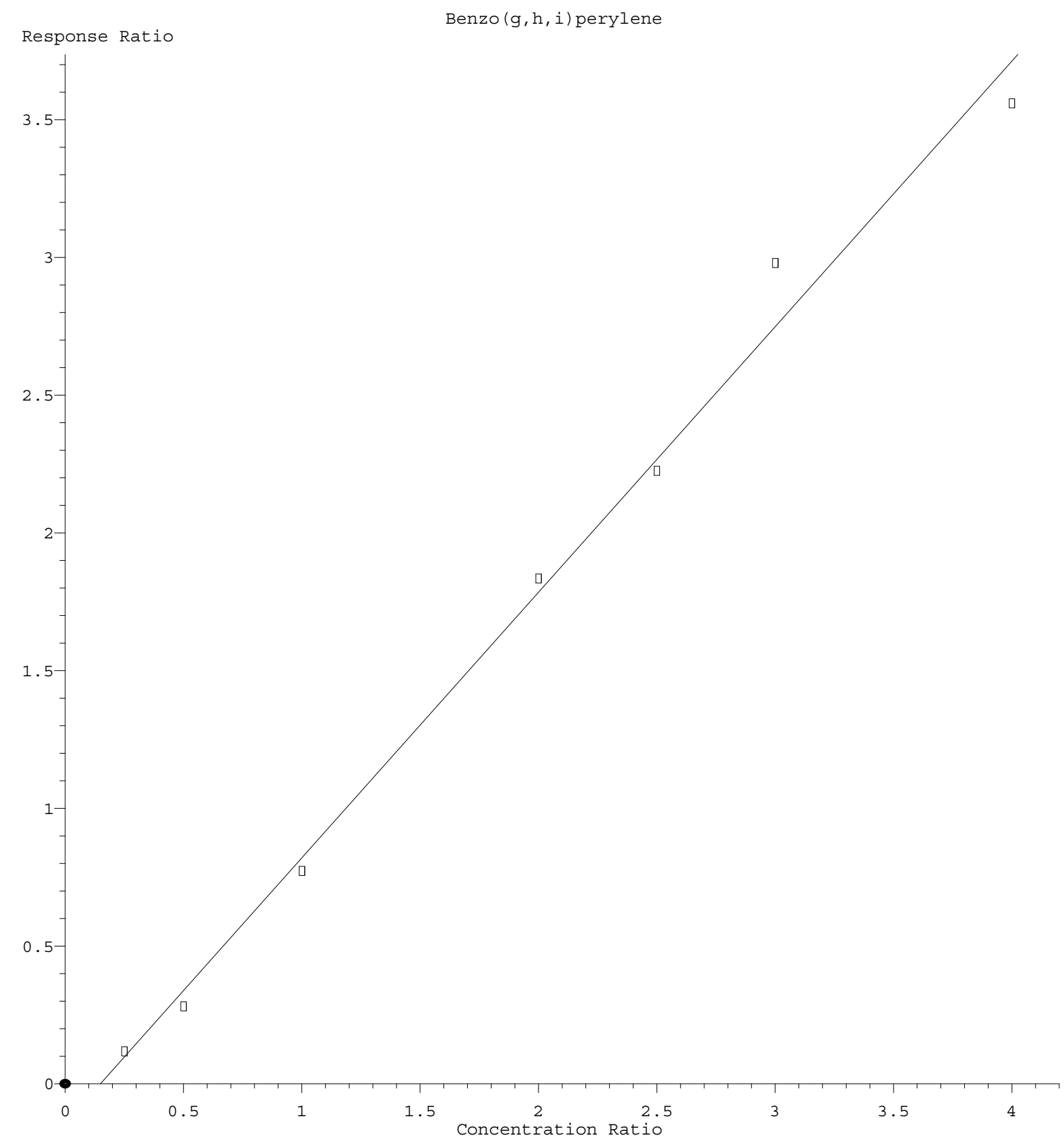
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF060524.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.599	0.584	0.610	0.568	0.542	0.550	0.499	0.565	6.74
41)	P	Hexachlorocycl...	0.143	0.160	0.189	0.199	0.206	0.212	0.196	0.186	13.72
42)	S	2,4,6-Tribromo...	0.167	0.185	0.210	0.209	0.196	0.204	0.177	0.192	8.69
43)	C	2,4,6-Trichlor...	0.291	0.308	0.355	0.359	0.363	0.367	0.356	0.343	8.89
44)		2,4,5-Trichlor...	0.327	0.357	0.393	0.394	0.390	0.406	0.378	0.378	7.26
45)	S	2-Fluorobiphenyl		1.444	1.380	1.124	1.033	1.021	0.861	1.144	19.69
46)		1,1'-Biphenyl	1.603	1.556	1.566	1.389	1.296	1.310	1.114	1.405	12.80
47)		2-Chloronaphth...	1.245	1.199	1.216	1.115	1.050	1.065	0.948	1.120	9.56
48)		2-Nitroaniline	0.114	0.150	0.215	0.258	0.280	0.296	0.288	0.229	31.54
49)		Acenaphthylene	1.769	1.697	1.742	1.576	1.485	1.513	1.309	1.584	10.39
50)		Dimethylphthalate	1.389	1.329	1.359	1.247	1.167	1.219	1.087	1.257	8.68
51)		2,6-Dinitrotol...	0.131	0.176	0.240	0.262	0.272	0.290	0.277	0.235	25.12
52)	C	Acenaphthene	1.175	1.145	1.170	1.057	1.016	1.023	0.907	1.070	9.23
53)		3-Nitroaniline	0.149	0.185	0.247	0.263	0.272	0.291	0.274	0.240	21.94
54)	P	2,4-Dinitrophenol	0.019	0.025	0.038	0.058	0.080	0.096	0.102	0.060	56.81
55)		Dibenzofuran	1.726	1.663	1.664	1.508	1.394	1.422	1.221	1.514	12.02
56)	P	4-Nitrophenol		0.125	0.180	0.202	0.206	0.228	0.205	0.191	18.61
57)		2,4-Dinitrotol...	0.133	0.179	0.268	0.315	0.329	0.360	0.321	0.272	31.21
58)		Fluorene	1.422	1.371	1.377	1.205	1.068	1.089	0.888	1.203	16.53
59)		2,3,4,6-Tetrac...	0.252	0.273	0.310	0.320	0.313	0.324	0.295	0.298	8.94
60)		Diethylphthalate	1.363	1.324	1.348	1.238	1.135	1.173	1.006	1.227	10.67
61)		4-Chlorophenyl...	0.713	0.686	0.689	0.607	0.556	0.557	0.470	0.611	14.64
62)		4-Nitroaniline	0.156	0.194	0.248	0.264	0.255	0.279	0.246	0.235	18.55
63)		Azobenzene	1.332	1.285	1.298	1.183	1.085	1.126	0.963	1.182	11.30
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.024	0.040	0.061	0.077	0.087	0.092	0.063	42.84
66)	c	n-Nitrosodiphe...	0.653	0.626	0.629	0.595	0.575	0.569	0.533	0.597	6.96
67)		4-Bromophenyl-...	0.237	0.231	0.236	0.228	0.225	0.223	0.214	0.228	3.52
68)		Hexachlorobenzene	0.285	0.273	0.276	0.261	0.258	0.258	0.243	0.265	5.31
69)		Atrazine	0.207	0.205	0.202	0.191	0.184	0.183	0.173	0.192	6.80
70)	C	Pentachlorophenol	0.094	0.113	0.142	0.156	0.161	0.167	0.160	0.142	19.69
71)		Phenanthrene	1.114	1.071	1.059	0.956	0.889	0.867	0.783	0.963	12.77
72)		Anthracene	1.095	1.058	1.060	0.945	0.887	0.897	0.779	0.960	12.03
73)		Carbazole	0.987	0.963	0.966	0.869	0.817	0.820	0.725	0.878	11.12
74)		Di-n-butylphth...	1.165	1.158	1.167	1.035	0.935	0.946	0.819	1.032	13.35
75)	C	Fluoranthene	1.206	1.194	1.190	1.032	0.934	0.933	0.782	1.039	15.87
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.089	0.136	0.265	0.278	0.241	0.353	0.079	0.206	50.99
78)		Pyrene	1.761	1.691	1.828	1.830	1.859	1.943	1.750	1.809	4.57
79)	S	Terphenyl-d14	1.464	1.413	1.439	1.296	1.266	1.323	1.159	1.337	8.14
80)		Butylbenzylpht...	0.416	0.482	0.602	0.652	0.666	0.707	0.655	0.597	17.96
81)		Benzo(a)anthra...	1.369	1.332	1.366	1.240	1.190	1.228	1.107	1.262	7.80
82)		3,3'-Dichlorob...	0.303	0.312	0.339	0.322	0.315	0.346	0.302	0.320	5.34
83)		Chrysene	1.252	1.251	1.273	1.223	1.142	1.208	1.128	1.211	4.63
84)		Bis(2-ethylhex...	0.790	0.843	0.932	0.916	0.889	0.900	0.822	0.870	6.07
85)	c	Di-n-octyl pht...	1.017	1.125	1.257	1.235	1.250	1.274	1.227	1.198	7.80

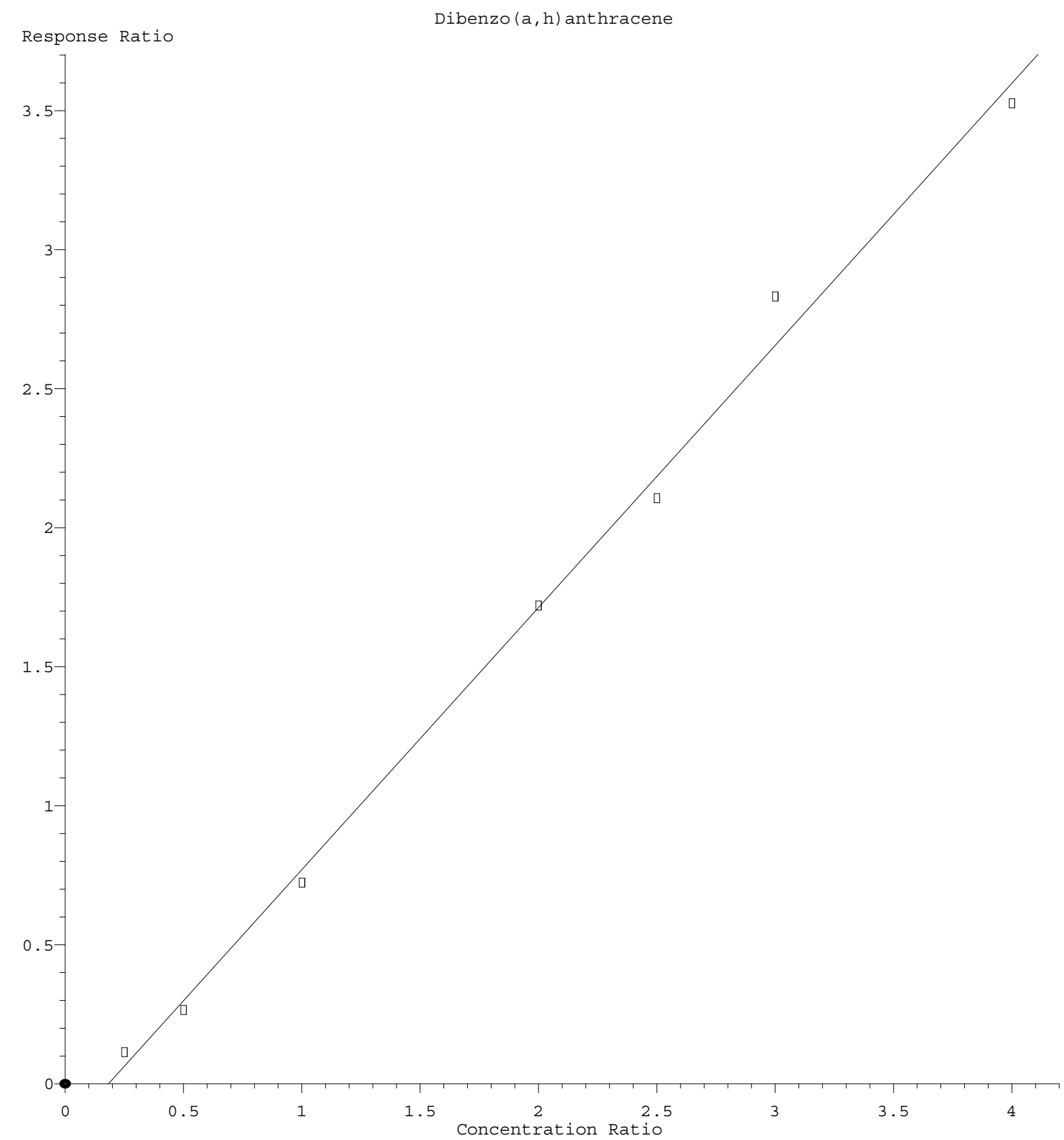
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF060524.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.579	0.679	0.909	1.076	1.058	1.185	1.095	0.940	24.40
88)		Benzo(b)fluora...	1.331	1.357	1.375	1.214	1.167	1.226	1.131	1.257	7.71
89)		Benzo(k)fluora...	1.255	1.285	1.344	1.190	1.165	1.092	1.063	1.199	8.53
90)	C	Benzo(a)pyrene	0.930	0.930	0.976	0.972	0.940	0.982	0.936	0.952	2.44
91)		Dibenzo(a,h)an...	0.455	0.531	0.723	0.860	0.842	0.944	0.881	0.748	25.08
92)		Benzo(g,h,i)pe...	0.471	0.562	0.773	0.917	0.890	0.993	0.890	0.785	25.03

(#) = Out of Range



Response = 9.643e-001 * Amt - 1.439e-001
Coef of Det (r^2) = 0.991918 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



Response = 9.428e-001 * Amt - 1.723e-001
Coef of Det (r^2) = 0.995292 Curve Fit: Linear
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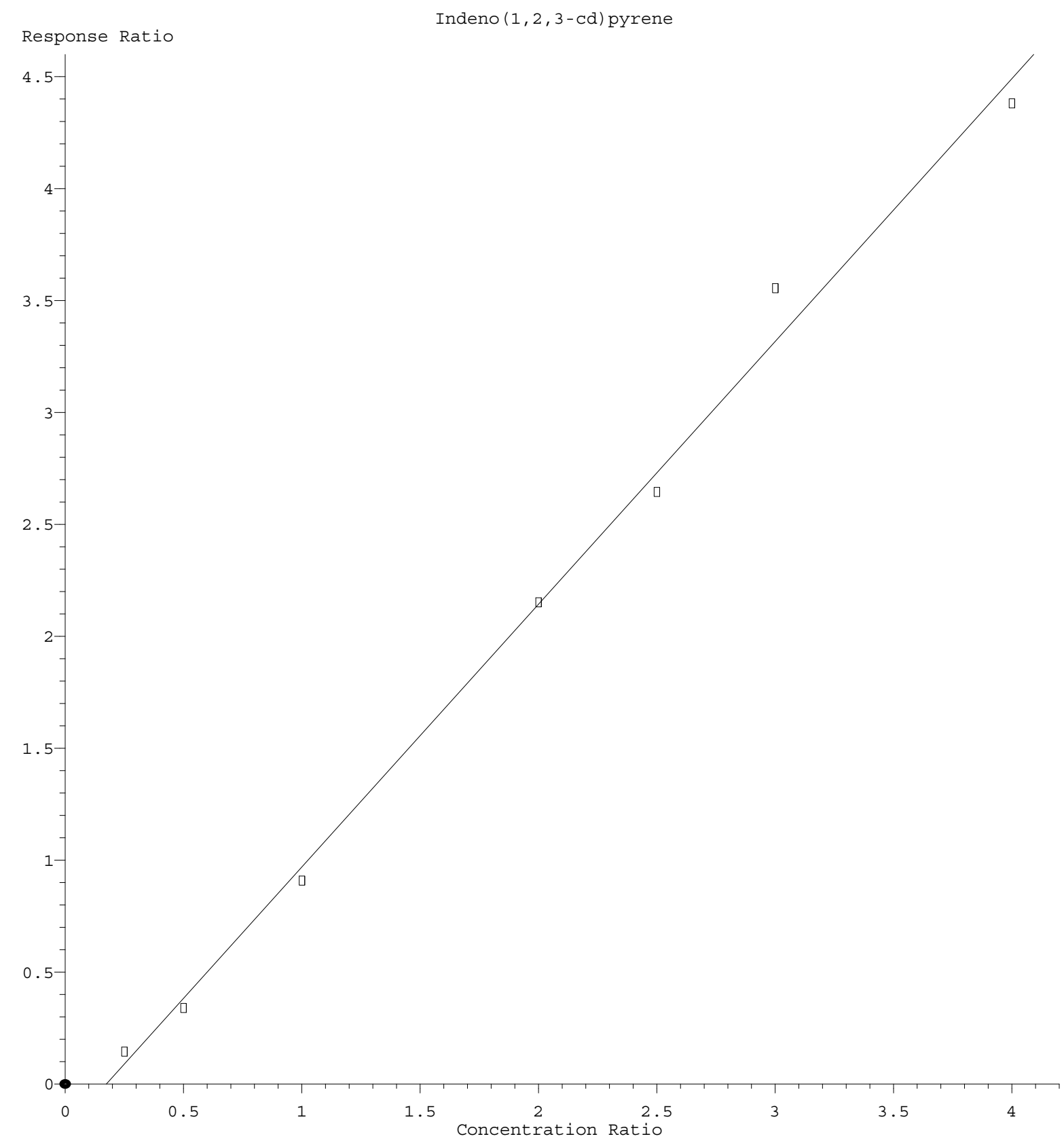
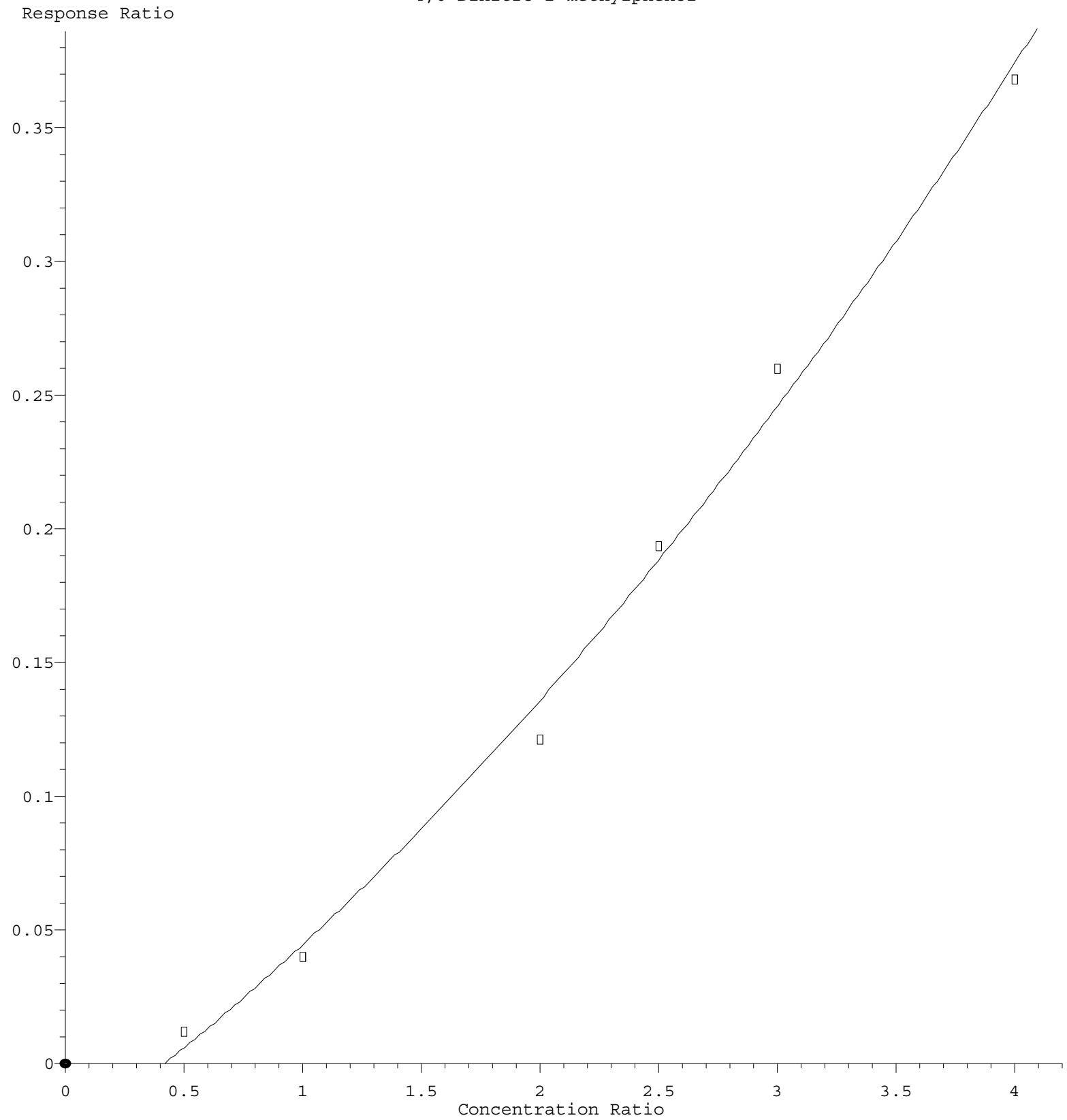
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024

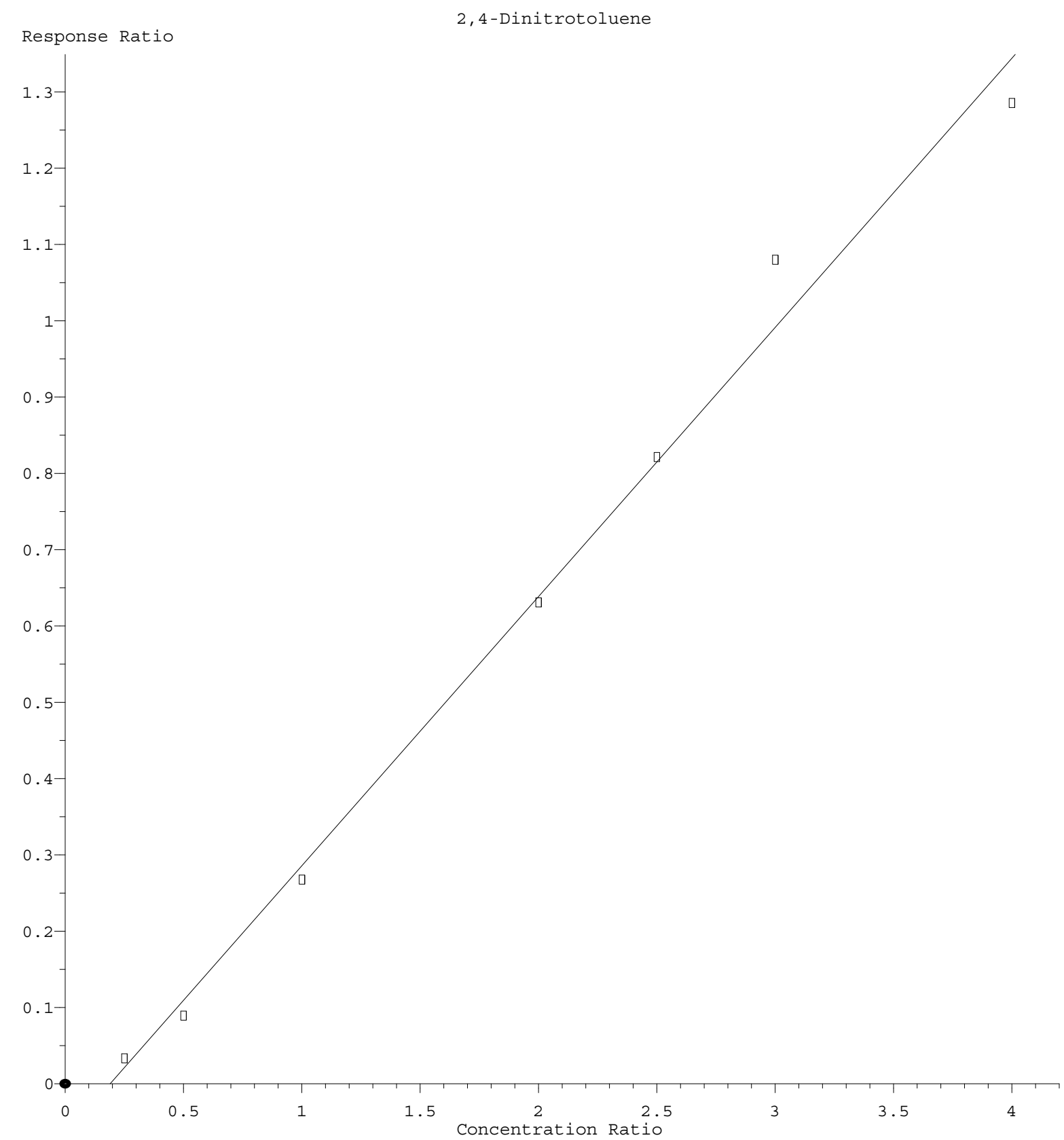


Response = 1.174e+000 * Amt - 2.044e-001
Coef of Det (r^2) = 0.994674 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024

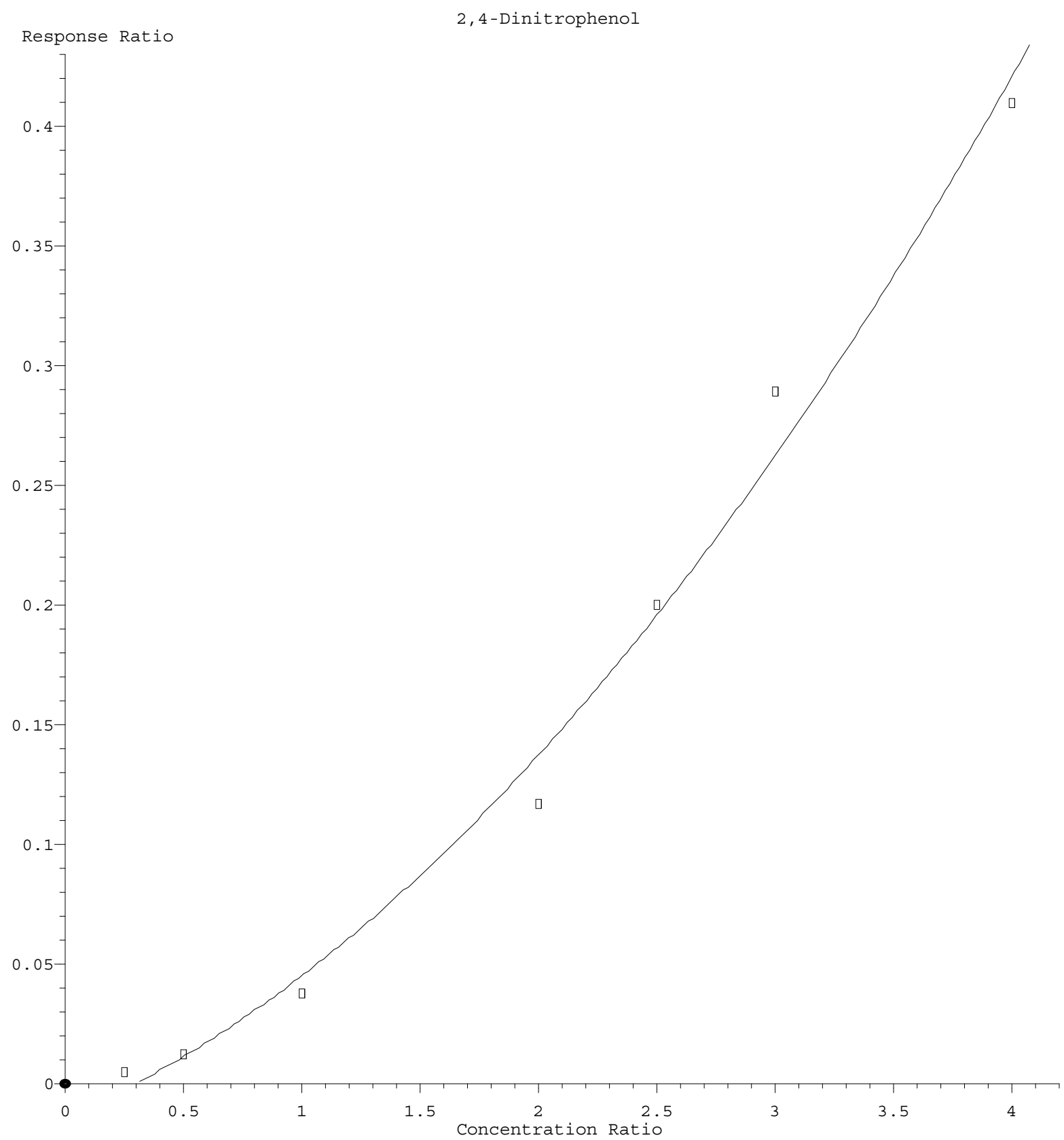
4,6-Dinitro-2-methylphenol



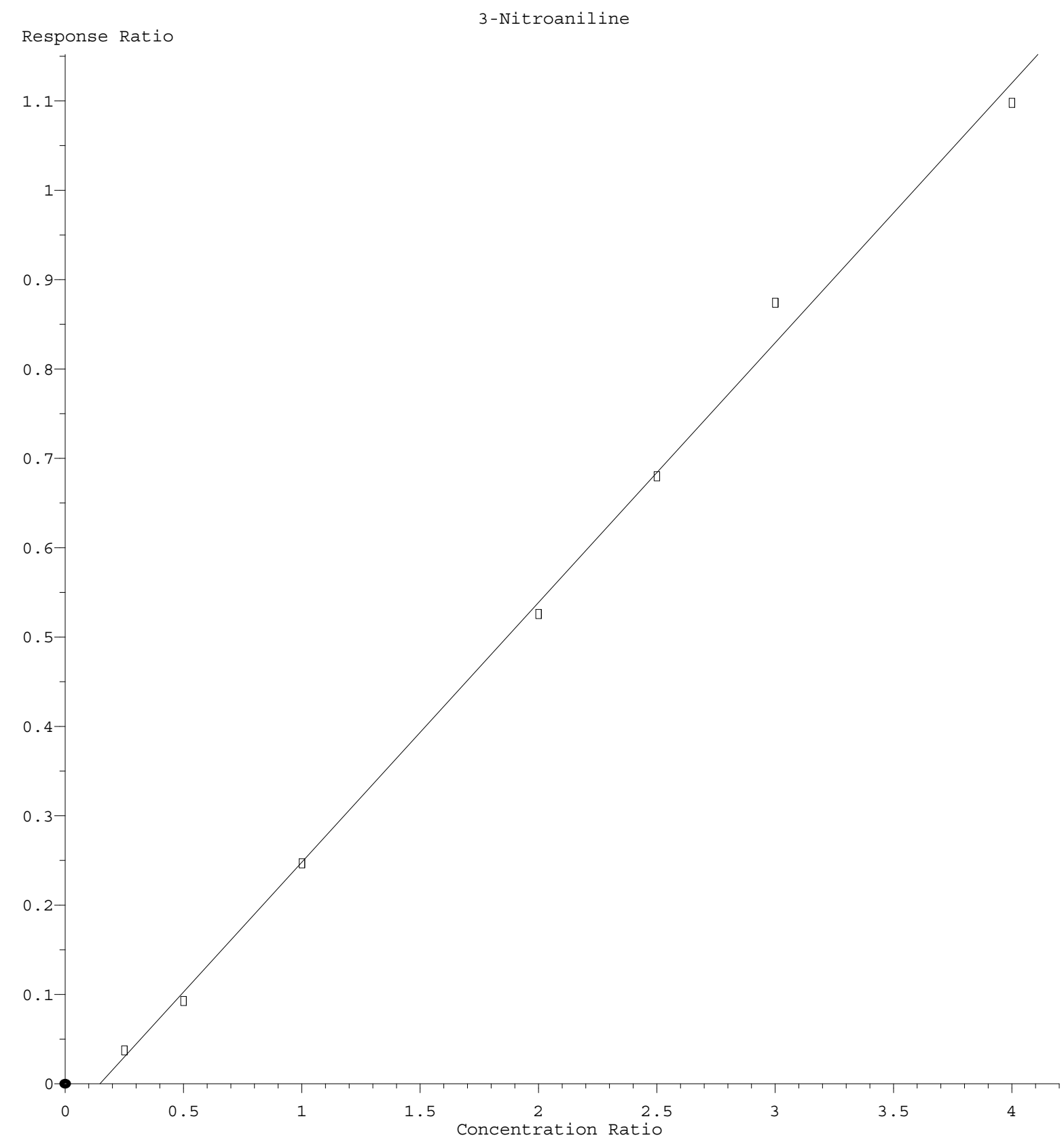
R = 9.302e-003 A*A + 6.338e-002 A - 2.820e-002
Coef of Det (r^2) = 0.994183 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



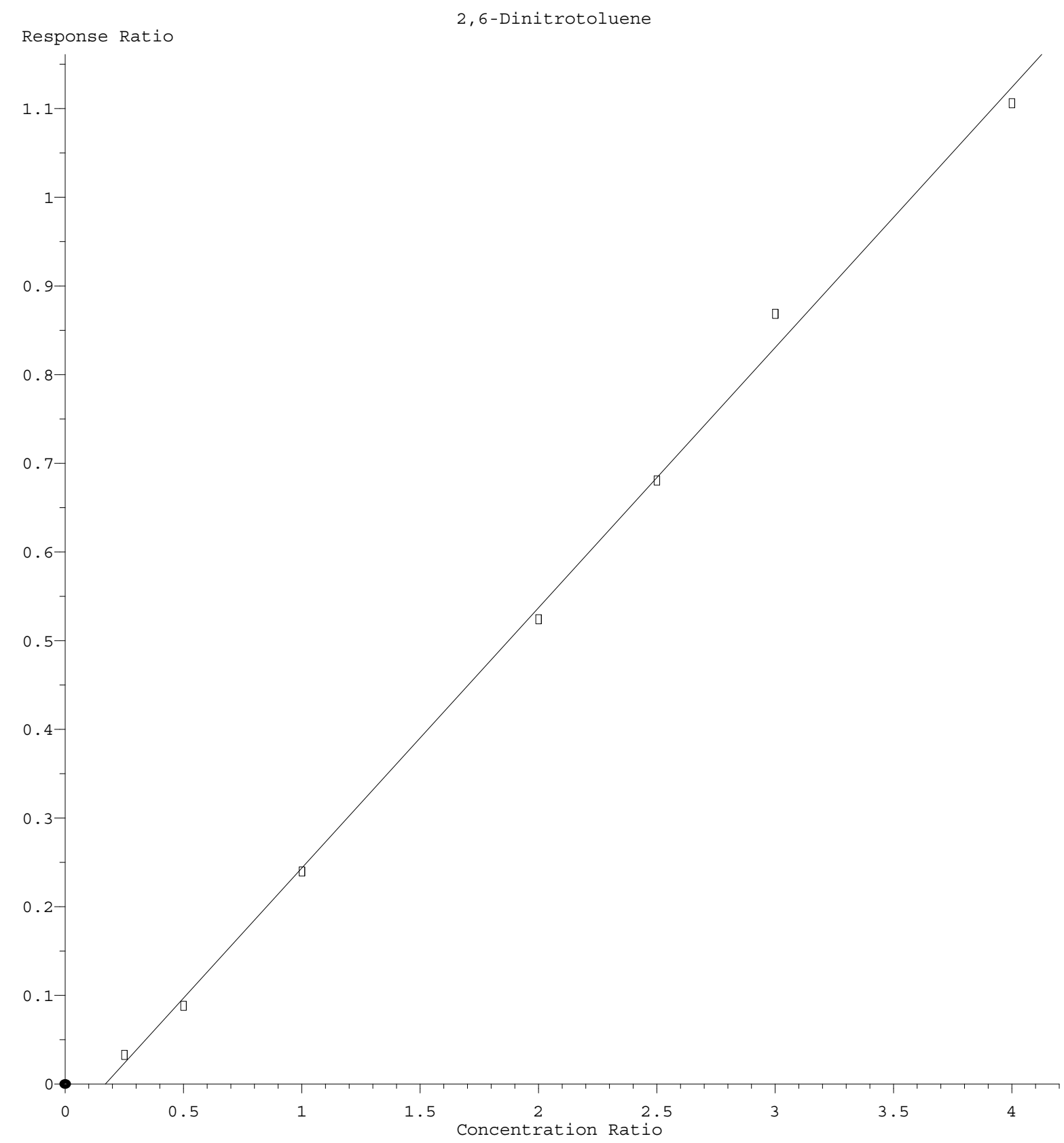
Response = 3.529e-001 * Amt - 6.695e-002
Coef of Det (r^2) = 0.991485 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



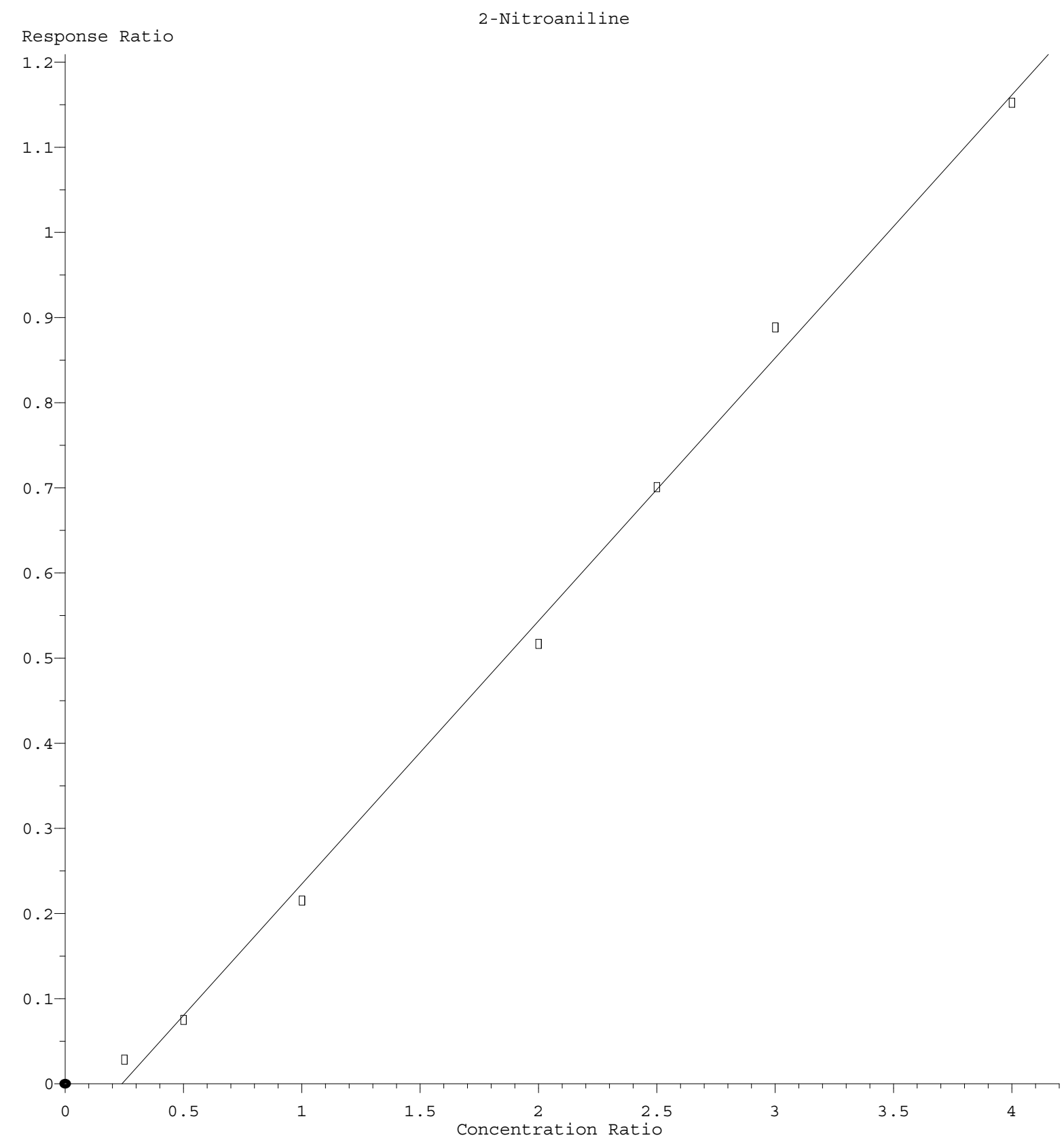
R = 1.650e-002 A*A + 4.272e-002 A - 1.409e-002
Coef of Det (r^2) = 0.990387 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



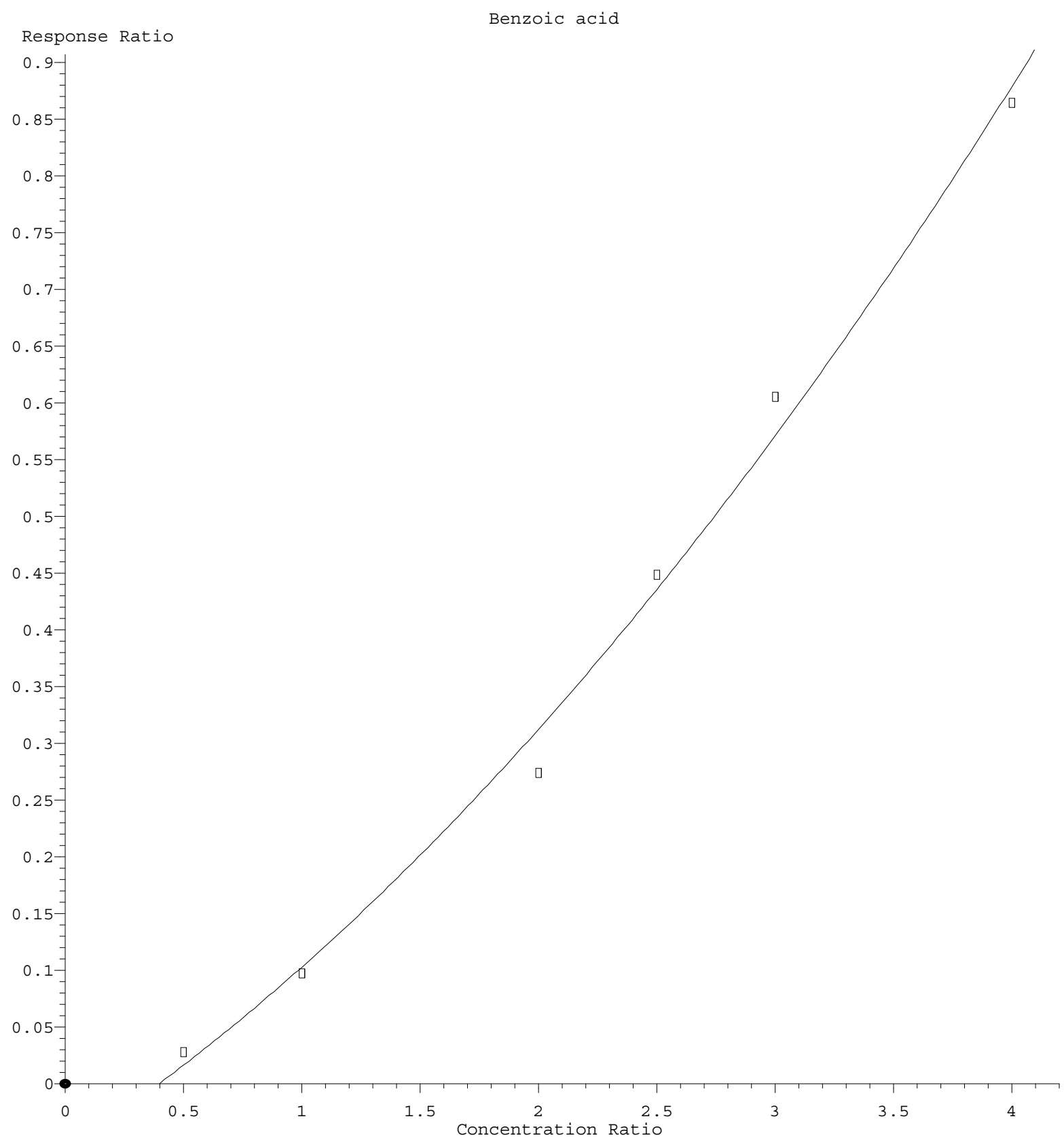
Response = 2.908e-001 * Amt - 4.282e-002
Coef of Det (r^2) = 0.997090 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



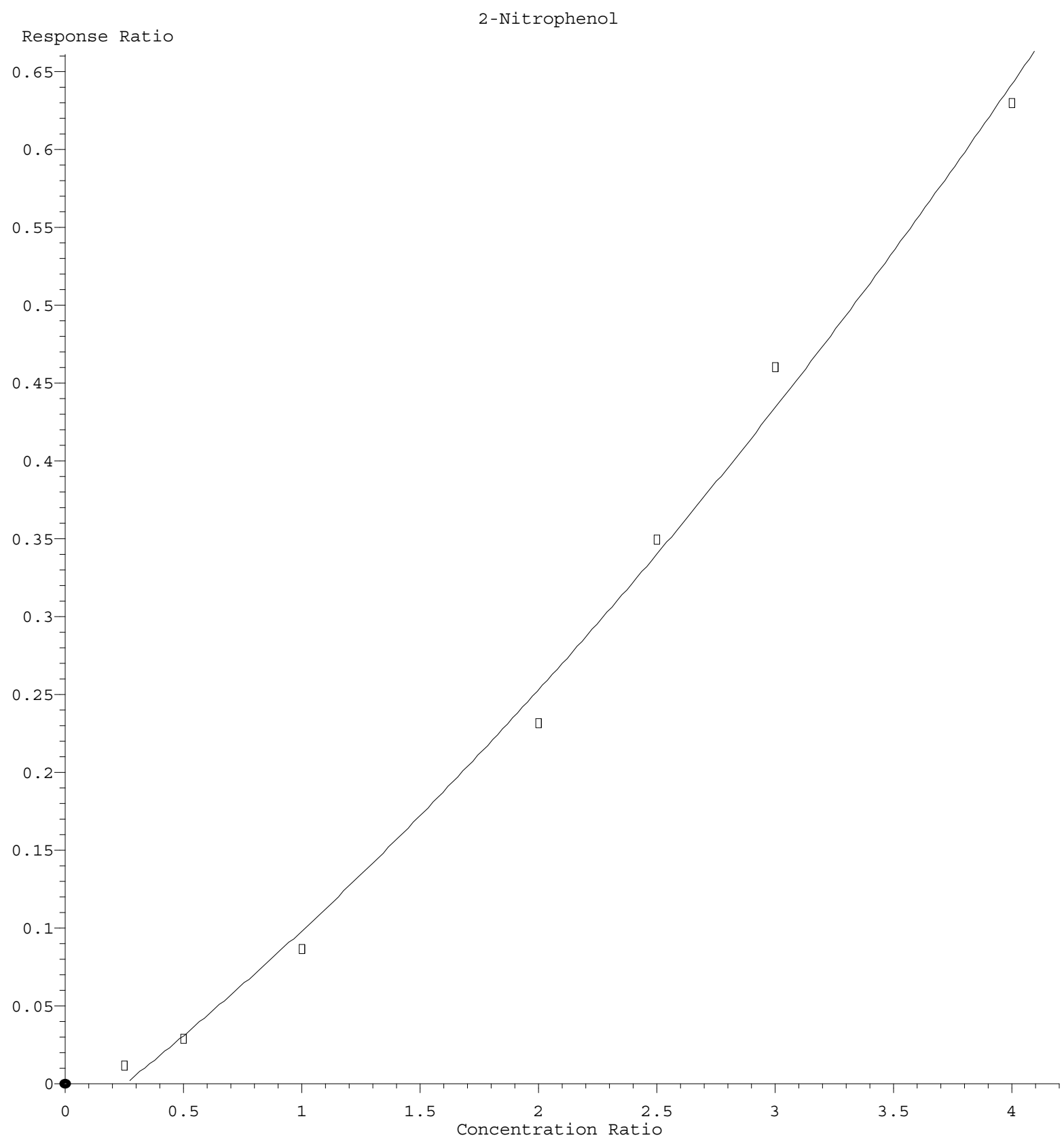
Response = 2.936e-001 * Amt - 4.994e-002
Coef of Det (r^2) = 0.997857 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



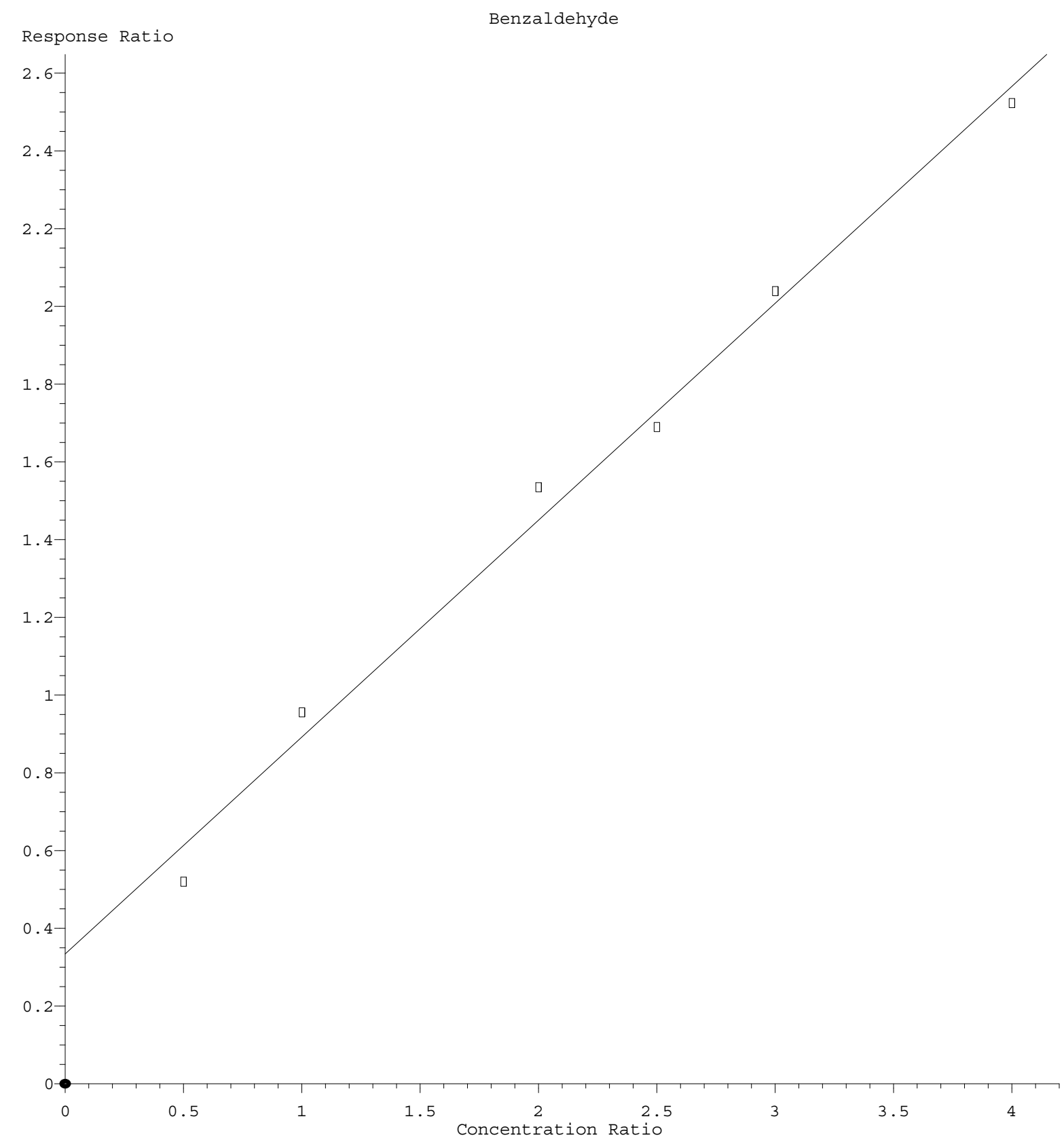
Response = 3.091e-001 * Amt - 7.413e-002
Coef of Det (r^2) = 0.997129 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



R = 2.450e-002 A*A + 1.361e-001 A - 5.786e-002
Coef of Det (r^2) = 0.993688 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



R = 1.329e-002 A*A + 1.148e-001 A - 2.983e-002
Coef of Det (r^2) = 0.995000 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024



Response = 5.580e-001 * Amt + 3.344e-001
Coef of Det (r^2) = 0.990718 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF060524.M
Calibration Table Last Updated: Thu Jun 06 05:19:29 2024