Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG012425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Jan 27 15:15:32 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG063953.D 5 =BG063954.D 10 =BG063955.D 20 =BG063956.D 40 =BG063957.D 50 =BG063958.D 60 =BG063959.D 80 =BG0639
60.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.614	0.653	0.681	0.792	0.582	0.610	0.566	0.643	11.93
3)		Pyridine		1.596	1.686	1.784	2.224	1.661	1.699	1.668	1.760	12.06
4)		n-Nitrosodimet...		0.917	0.994	1.013	1.278	0.950	0.949	0.912	1.002	12.71
5)	S	2-Fluorophenol		1.524	1.420	1.466	1.651	1.373	1.383	1.329	1.449	7.57
6)		Aniline		1.645	1.627	1.654	1.847	1.541	1.546	1.497	1.622	7.11
7)	S	Phenol-d6		2.055	1.885	1.994	2.221	1.855	1.883	1.811	1.958	7.32
8)		2-Chlorophenol		1.670	1.458	1.510	1.719	1.426	1.446	1.424	1.522	8.03
9)		Benzaldehyde		1.345	1.311	1.208	1.221	0.947	0.894		1.154	16.41
10)	C	Phenol		2.188	2.005	2.080	2.367	1.953	1.978	1.904	2.068	7.79
11)		bis(2-Chloroet...		1.831	1.592	1.609	1.804	1.498	1.517	1.477	1.618	8.93
12)		1,3-Dichlorobe...		1.682	1.684	1.649	1.877	1.553	1.551	1.504	1.643	7.61
13)	C	1,4-Dichlorobe...		1.721	1.661	1.705	1.882	1.557	1.592	1.539	1.665	7.13
14)		1,2-Dichlorobe...		1.669	1.628	1.652	1.834	1.518	1.528	1.496	1.618	7.29
15)		Benzyl Alcohol		1.410	1.452	1.456	1.660	1.402	1.411	1.380	1.453	6.55
16)		2,2'-oxybis(1-...		2.935	3.007	3.051	3.403	2.842	2.892	2.805	2.991	6.74
17)		2-Methylphenol		1.281	1.320	1.380	1.560	1.304	1.309	1.271	1.346	7.48
18)		Hexachloroethane		0.546	0.574	0.602	0.654	0.561	0.564	0.565	0.581	6.28
19)	P	n-Nitroso-di-n...	1.283	1.304	1.381	1.369	1.490	1.240	1.254	1.236	1.320	6.68
20)		3+4-Methylphenols		1.702	1.827	1.938	2.099	1.751	1.793	1.740	1.836	7.57
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.600	0.575	0.590	0.644	0.541	0.553	0.530	0.576	6.83
23)	S	Nitrobenzene-d5			0.264	0.315	0.387	0.344	0.368		0.336	14.33
24)		Nitrobenzene		0.293	0.320	0.369	0.454	0.391	0.412	0.413	0.379	14.89
25)		Isophorone		0.824	0.792	0.820	0.937	0.766	0.791	0.766	0.813	7.25
26)	C	2-Nitrophenol		0.070	0.065	0.085	0.112	0.107	0.118	0.124	0.097	24.59
27)		2,4-Dimethylph...		0.226	0.232	0.234	0.268	0.226	0.234	0.229	0.236	6.24
28)		bis(2-Chloroet...		0.492	0.493	0.495	0.563	0.477	0.491	0.472	0.498	6.09
29)	C	2,4-Dichloroph...		0.272	0.281	0.298	0.345	0.295	0.299	0.291	0.297	7.79
30)		1,2,4-Trichlor...		0.384	0.356	0.363	0.413	0.348	0.354	0.343	0.366	6.67
31)		Naphthalene		1.181	1.131	1.158	1.299	1.087	1.118	1.065	1.148	6.73
32)		Benzoic acid			0.140	0.171	0.236	0.216	0.235	0.228	0.204	19.41
33)		4-Chloroaniline		0.408	0.390	0.403	0.467	0.388	0.402	0.390	0.407	6.82
34)	C	Hexachlorobuta...		0.235	0.237	0.234	0.271	0.226	0.236	0.229	0.238	6.24
35)		Caprolactam		0.109	0.110	0.117	0.135	0.113	0.115	0.109	0.115	7.87
36)	C	4-Chloro-3-met...		0.371	0.361	0.374	0.448	0.374	0.381	0.363	0.382	7.83
37)		2-Methylnaphth...		0.771	0.767	0.781	0.879	0.751	0.741	0.715	0.772	6.75
38)		1-Methylnaphth...		0.785	0.779	0.765	0.877	0.745	0.749	0.711	0.773	6.73

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.608	0.628	0.614	0.691	0.605	0.617	0.593	0.622	5.15
41)	P	Hexachlorocycl...	0.093	0.105	0.117	0.148	0.137	0.145	0.148	0.128	17.67
42)	S	2,4,6-Tribromo...	0.163	0.187	0.201	0.241	0.212	0.217	0.210	0.204	11.99
43)	C	2,4,6-Trichlor...	0.323	0.344	0.374	0.442	0.388	0.399	0.384	0.379	10.16
44)		2,4,5-Trichlor...	0.390	0.417	0.426	0.506	0.437	0.450	0.431	0.437	8.21
45)	S	2-Fluorobiphenyl	1.447	1.486	1.437	1.586	1.339	1.351	1.260	1.415	7.61
46)		1,1'-Biphenyl	1.643	1.627	1.624	1.818	1.557	1.579	1.497	1.621	6.19
47)		2-Chloronaphth...	1.244	1.248	1.238	1.383	1.204	1.226	1.175	1.245	5.30
48)		2-Nitroaniline	0.177	0.211	0.254	0.366	0.344	0.370	0.385	0.301	28.30
49)		Acenaphthylene	1.778	1.820	1.799	2.033	1.712	1.745	1.679	1.795	6.45
50)		Dimethylphthalate	1.550	1.502	1.503	1.710	1.447	1.479	1.404	1.513	6.49
51)		2,6-Dinitrotol...	0.115	0.153	0.200	0.284	0.271	0.289	0.289	0.229	31.70
52)	C	Acenaphthene	1.232	1.234	1.227	1.402	1.178	1.213	1.169	1.236	6.26
53)		3-Nitroaniline	0.147	0.187	0.234	0.321	0.283	0.304	0.296	0.253	25.88
54)	P	2,4-Dinitrophenol		0.036	0.051	0.072	0.064	0.076	0.078	0.063	25.99
55)		Dibenzofuran	1.934	1.933	1.885	2.130	1.799	1.821	1.730	1.890	6.83
56)	P	4-Nitrophenol		0.153	0.200	0.283	0.243	0.255	0.251	0.231	20.23
57)		2,4-Dinitrotol...	0.151	0.182	0.232	0.352	0.330	0.372	0.375	0.285	33.16
58)		Fluorene	1.602	1.603	1.560	1.719	1.449	1.446	1.364	1.535	7.90
59)		2,3,4,6-Tetrac...	0.285	0.334	0.370	0.433	0.370	0.398	0.378	0.367	12.77
60)		Diethylphthalate	1.611	1.647	1.615	1.842	1.534	1.573	1.505	1.618	6.80
61)		4-Chlorophenyl...	0.803	0.778	0.764	0.837	0.704	0.710	0.678	0.753	7.66
62)		4-Nitroaniline	0.179	0.210	0.279	0.357	0.301	0.319	0.306	0.279	22.57
63)		Azobenzene	1.752	1.768	1.762	1.954	1.659	1.679	1.608	1.740	6.42
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.029	0.038	0.053	0.050	0.055	0.062	0.048	25.03
66)	c	n-Nitrosodiphe...	0.582	0.598	0.606	0.663	0.568	0.570	0.564	0.593	5.84
67)		4-Bromophenyl-...	0.203	0.206	0.207	0.229	0.201	0.204	0.202	0.208	4.60
68)		Hexachlorobenzene	0.249	0.238	0.249	0.272	0.238	0.239	0.235	0.246	5.15
69)		Atrazine	0.094	0.097	0.095	0.100	0.075	0.071	0.067	0.086	16.19
70)	C	Pentachlorophenol		0.111	0.131	0.167	0.147	0.153	0.154	0.144	13.91
71)		Phenanthrene	1.136	1.140	1.140	1.245	1.058	1.047	1.012	1.111	7.05
72)		Anthracene	1.085	1.097	1.118	1.242	1.042	1.050	0.996	1.090	7.18
73)		Carbazole	1.073	1.078	1.150	1.267	1.011	1.018	0.975	1.082	9.21
74)		Di-n-butylphth...	1.227	1.267	1.323	1.509	1.218	1.217	1.149	1.273	9.18
75)	C	Fluoranthene	1.409	1.382	1.468	1.696	1.285	1.291	1.202	1.390	11.61
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.342	0.328	0.366	0.384	0.337	0.303	0.385	0.349	8.73
78)		Pyrene	1.402	1.356	1.317	1.485	1.294	1.271	1.242	1.338	6.27
79)	S	Terphenyl-d14	1.107	1.080	1.028	1.105	0.931	0.910	0.844	1.001	10.55
80)		Butylbenzylpht...	0.415	0.446	0.492	0.589	0.506	0.510	0.498	0.494	11.09
81)		Benzo(a)anthra...	1.366	1.381	1.381	1.566	1.314	1.323	1.269	1.371	6.94
82)		3,3'-Dichlorob...	0.411	0.432	0.444	0.513	0.437	0.435	0.427	0.443	7.39
83)		Chrysene	1.325	1.326	1.346	1.507	1.263	1.270	1.237	1.325	6.76
84)		Bis(2-ethylhex...	0.717	0.753	0.808	0.924	0.783	0.789	0.765	0.791	8.26
85)	c	Di-n-octyl pht...	1.134	1.199	1.283	1.546	1.314	1.338	1.287	1.300	9.97

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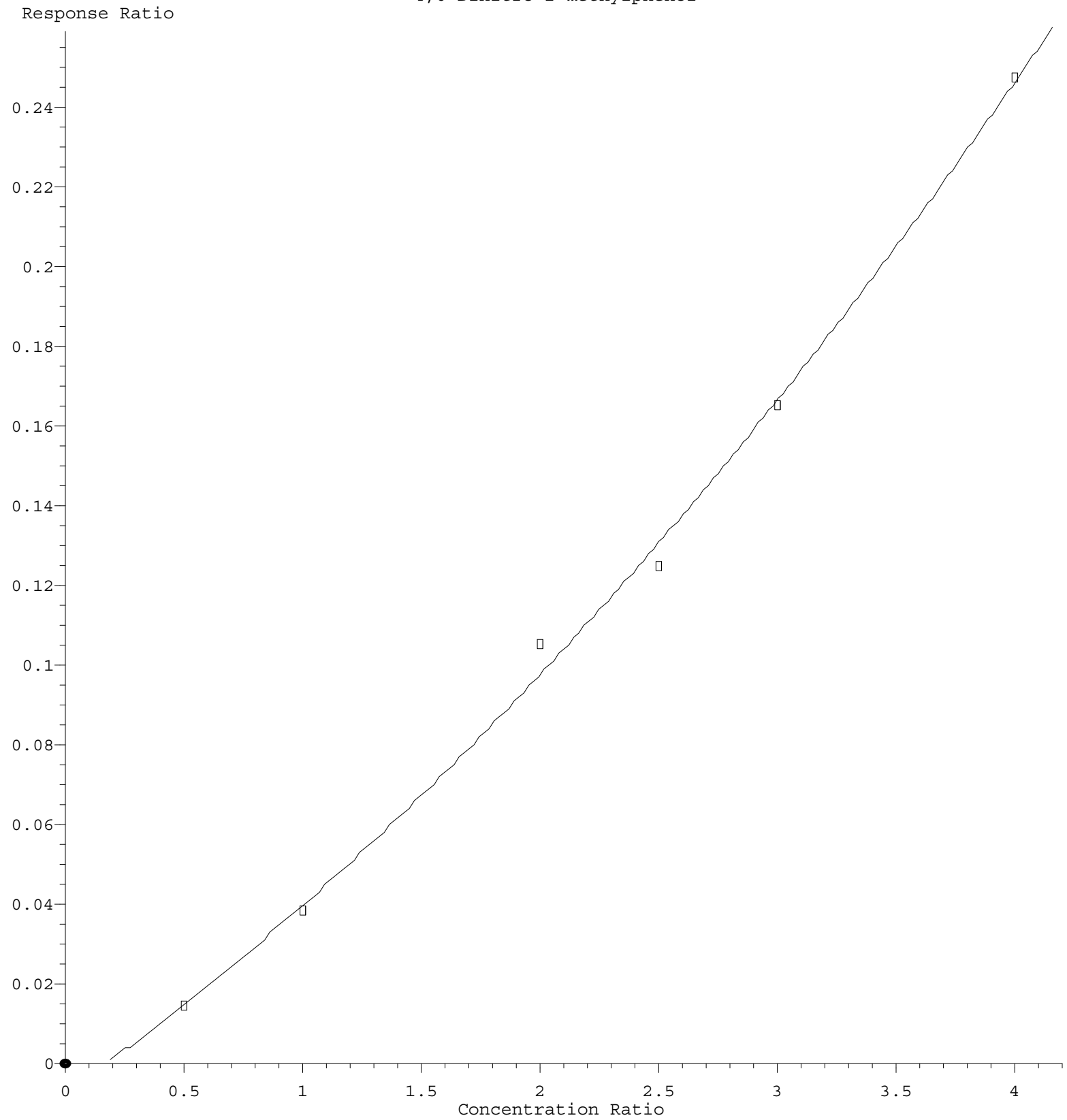
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.333	1.305	1.405	1.630	1.368	1.399	1.349	1.398	7.73
88)		Benzo(b)fluora...	1.232	1.247	1.324	1.491	1.250	1.279	1.203	1.289	7.49
89)		Benzo(k)fluora...	1.240	1.277	1.290	1.463	1.247	1.238	1.215	1.281	6.54
90)	C	Benzo(a)pyrene	1.072	1.097	1.136	1.314	1.103	1.115	1.083	1.132	7.34
91)		Dibenzo(a,h)an...	1.075	1.109	1.176	1.353	1.147	1.167	1.129	1.165	7.72
92)		Benzo(g,h,i)pe...	1.104	1.098	1.165	1.365	1.147	1.169	1.134	1.169	7.76

(#) = Out of Range

4,6-Dinitro-2-methylphenol



R = 5.456e-003 A*A + 4.155e-002 A - 7.270e-003
Coef of Det (r^2) = 0.997317 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG012425.M
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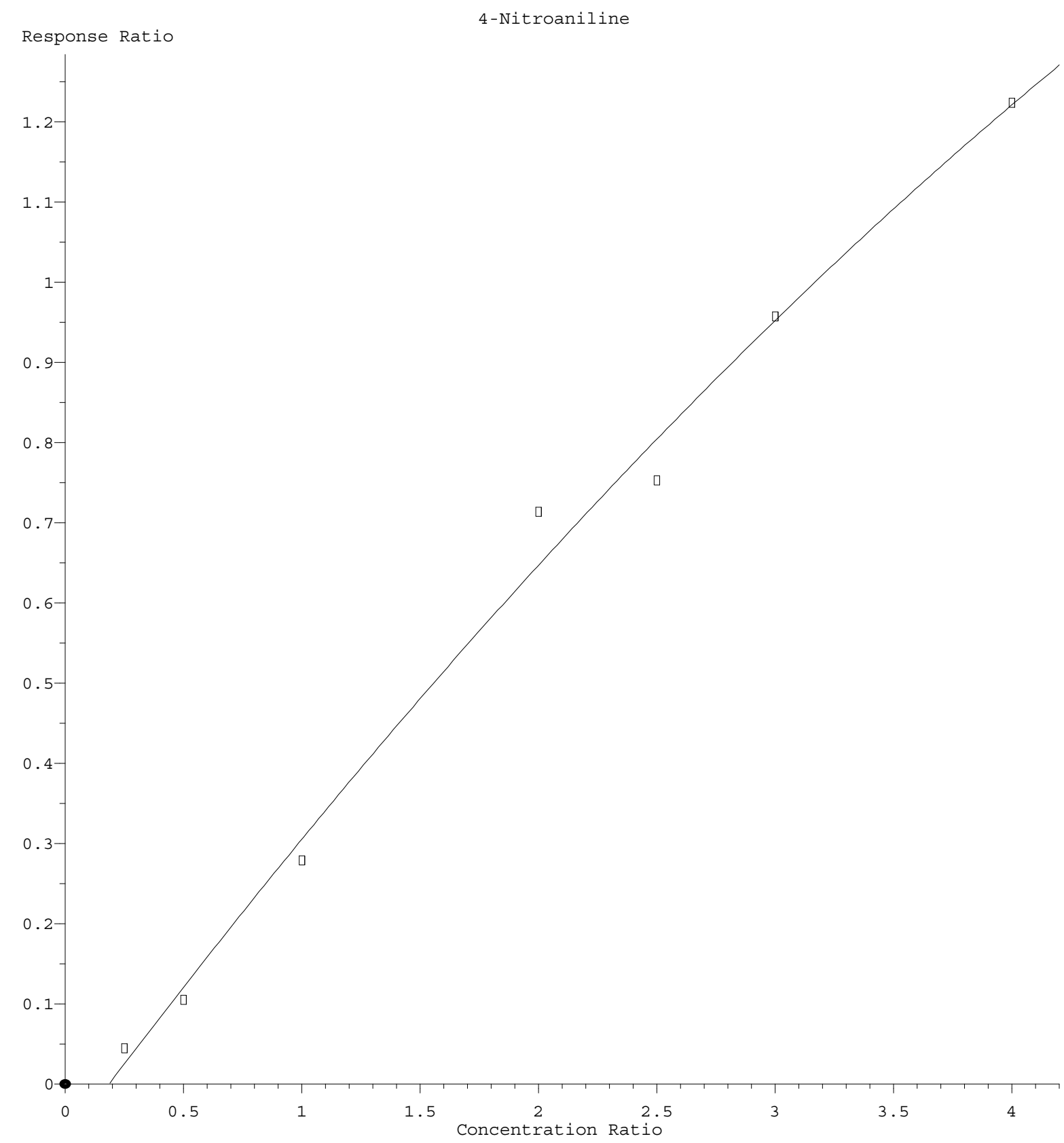

R = -1.822e-002 A*A + 3.964e-001 A - 7.287e-002
Coef of Det (r^2) = 0.993007 Curve Fit: Quadratic
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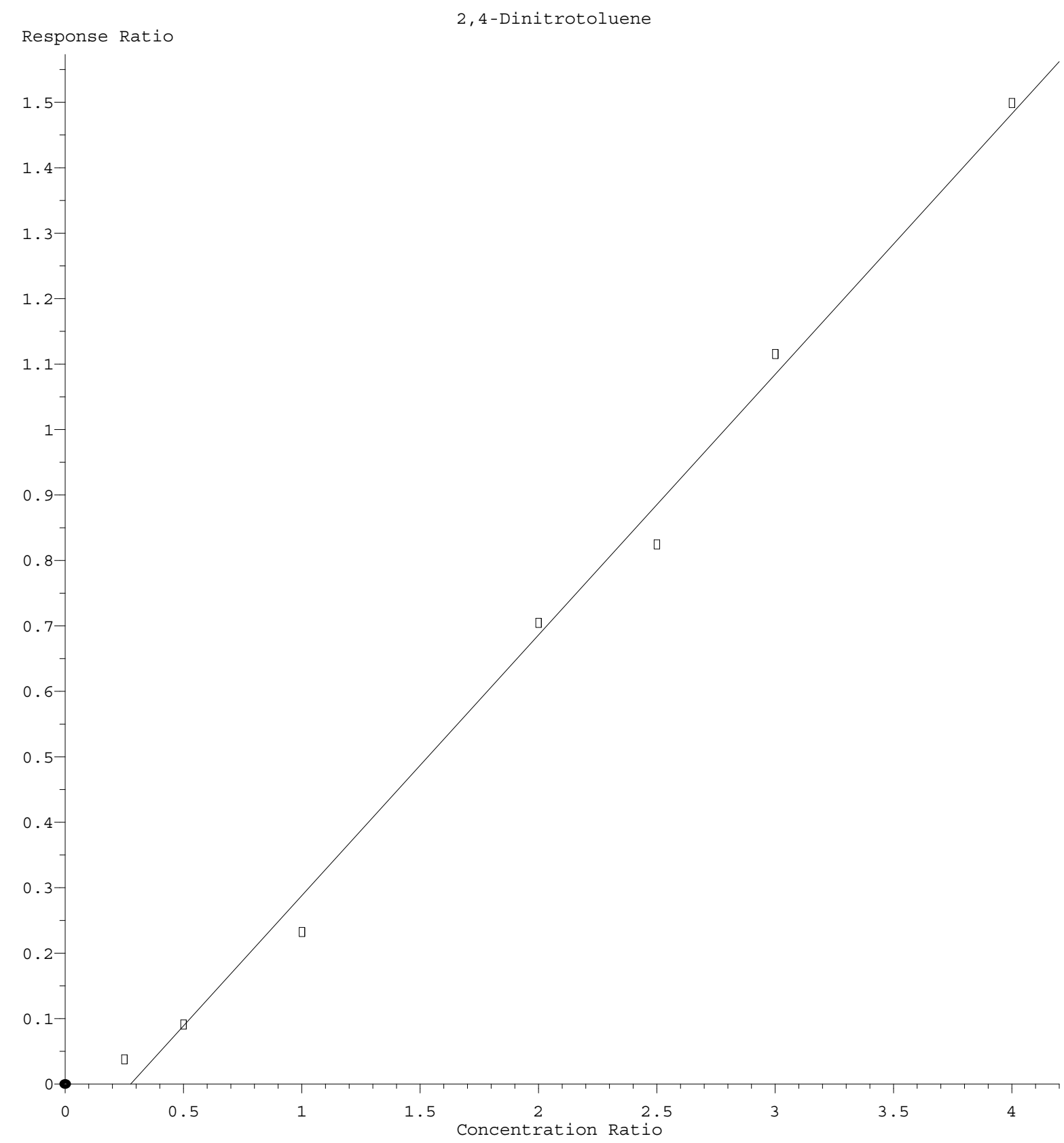

Response = 3.983e-001 * Amt - 1.104e-001
Coef of Det (r^2) = 0.994163 Curve Fit: Linear
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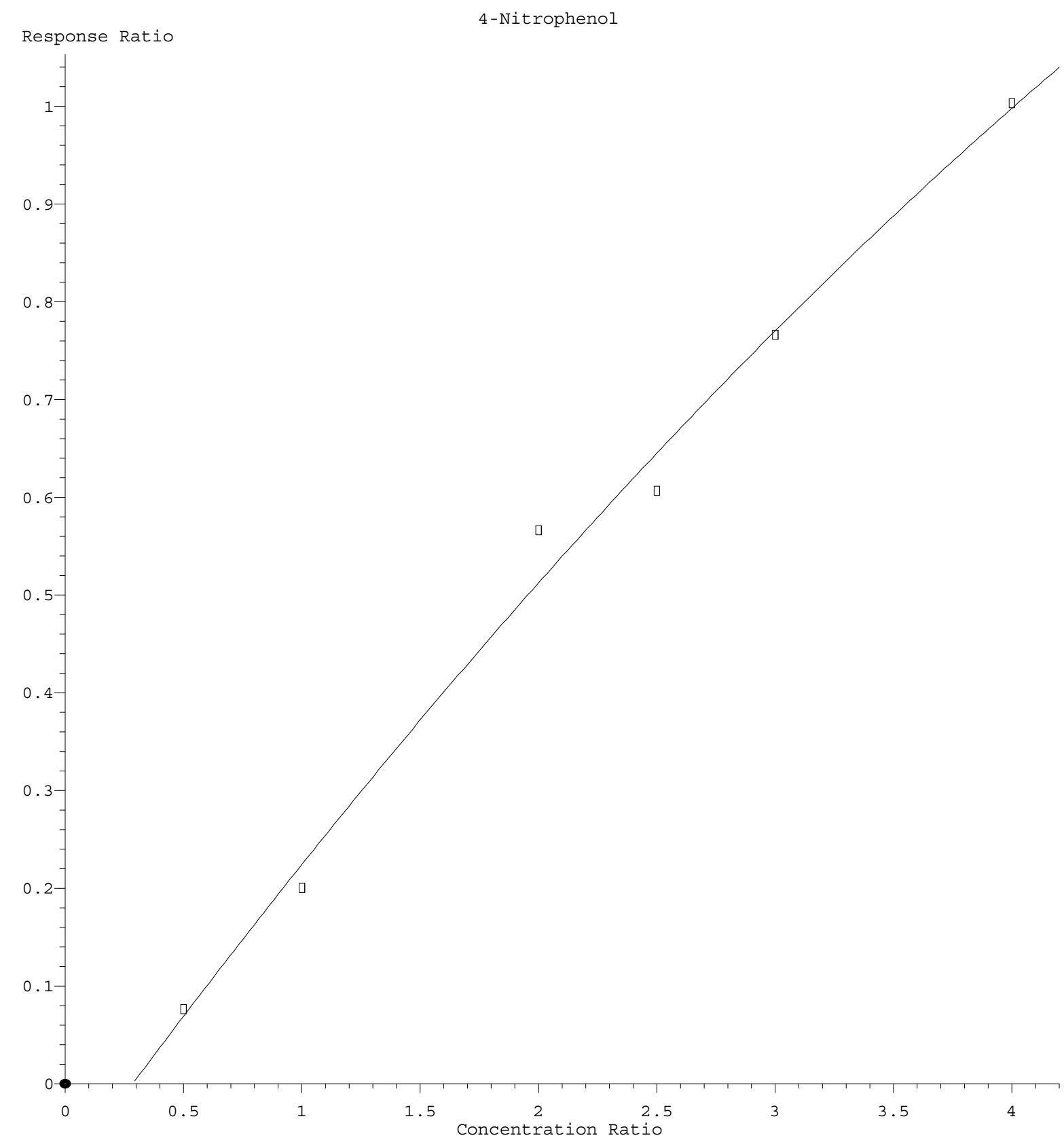
Calibration Table Last Updated: Mon Jan 27 15:15:32 2025



R = -1.510e-002 A*A + 3.334e-001 A - 9.396e-002
Coef of Det (r^2) = 0.991575 Curve Fit: Quadratic
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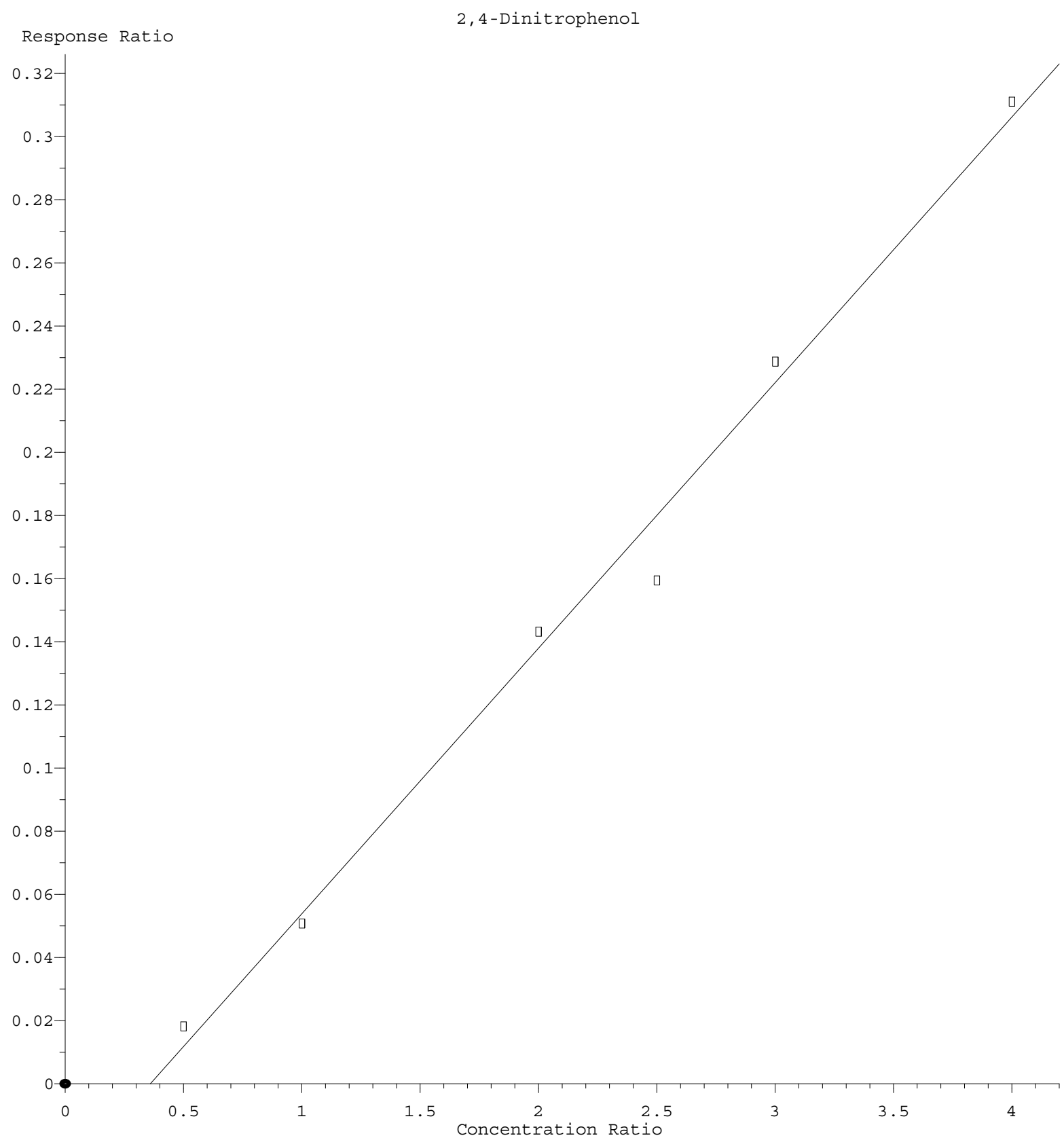
Calibration Table Last Updated: Mon Jan 27 15:15:32 2025



Response = 8.408e-002 * Amt - 3.030e-002
Coef of Det (r^2) = 0.990427 Curve Fit: Linear
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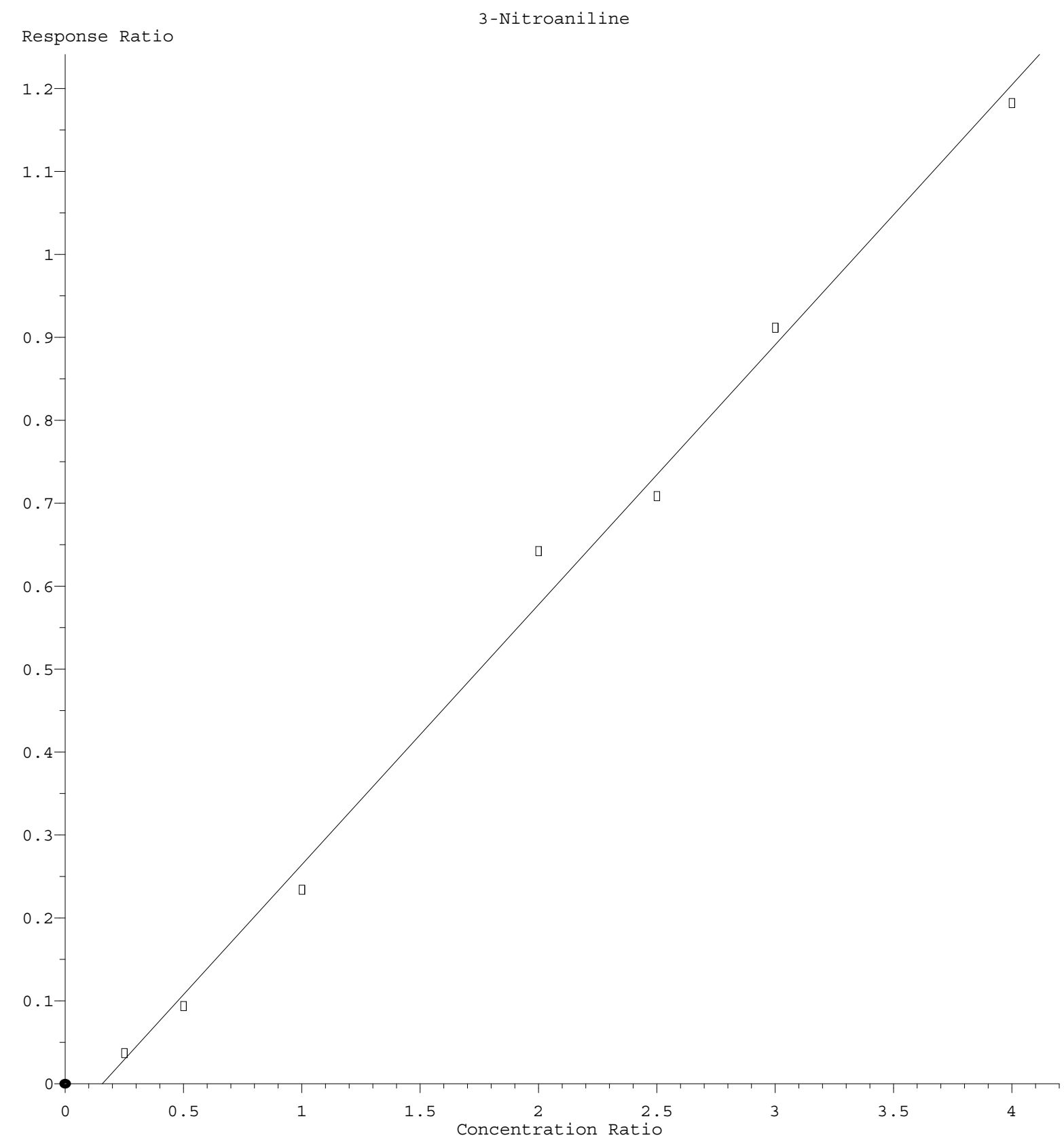

Response = 3.135e-001 * Amt - 4.926e-002
Coef of Det (r^2) = 0.993907 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG012425.M
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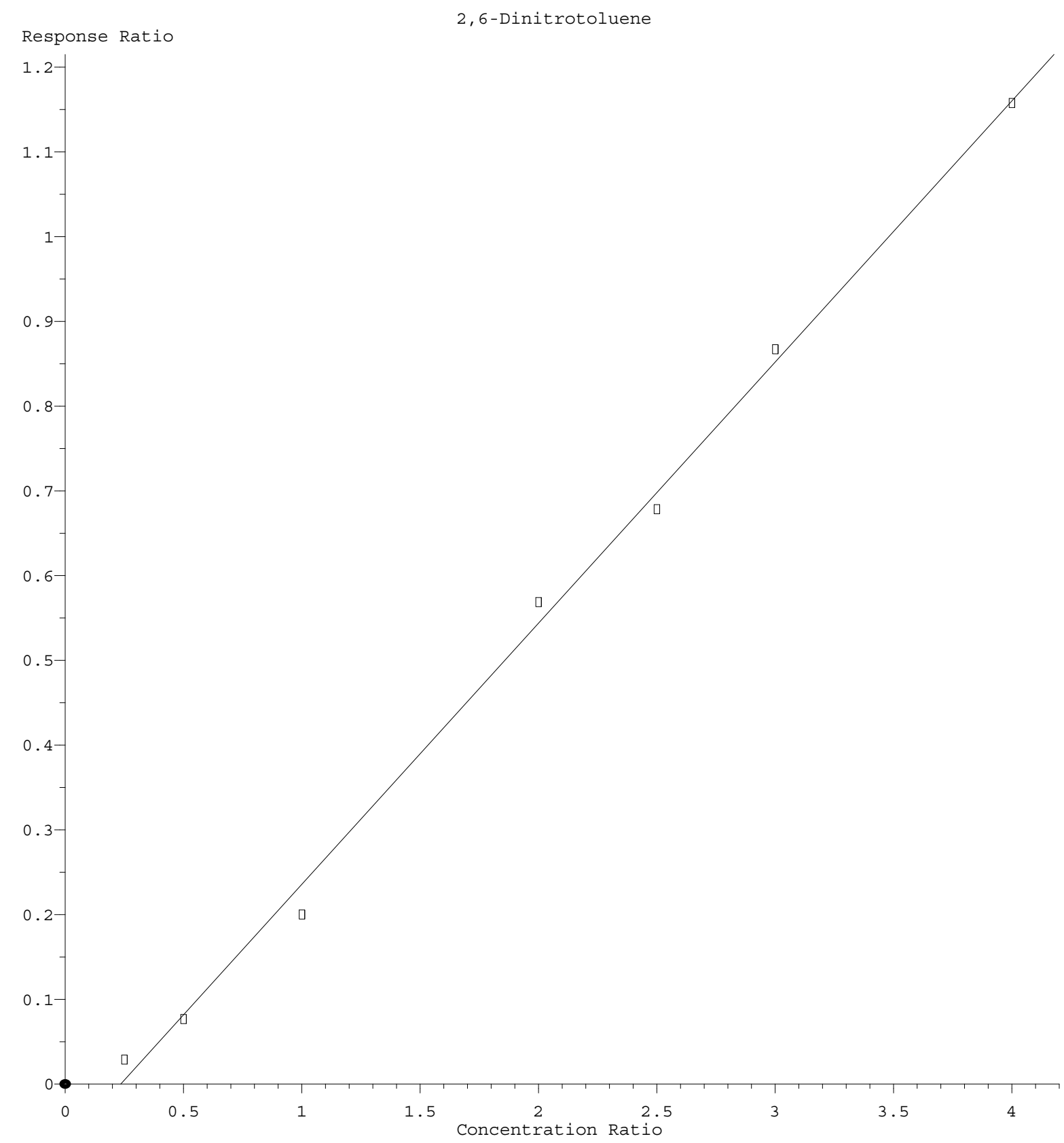
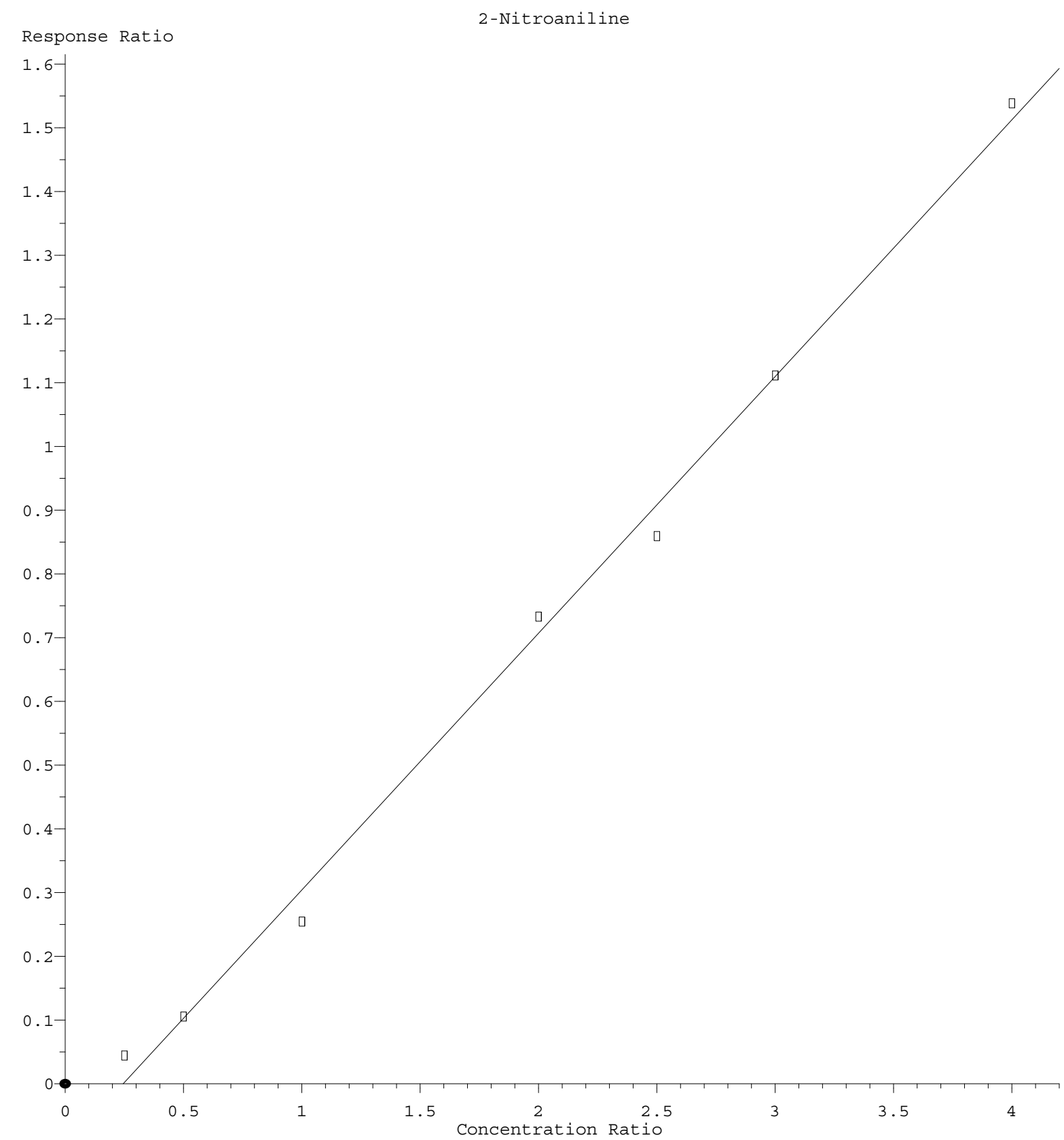


Response = 3.083e-001 * Amt - 7.244e-002
Coef of Det (r^2) = 0.997152 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG012425.M
Calibration Table Last Updated: Mon Jan 27 15:15:32 2025



Response = 4.028e-001 * Amt - 9.878e-002
Coef of Det (r^2) = 0.995718 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG012425.M
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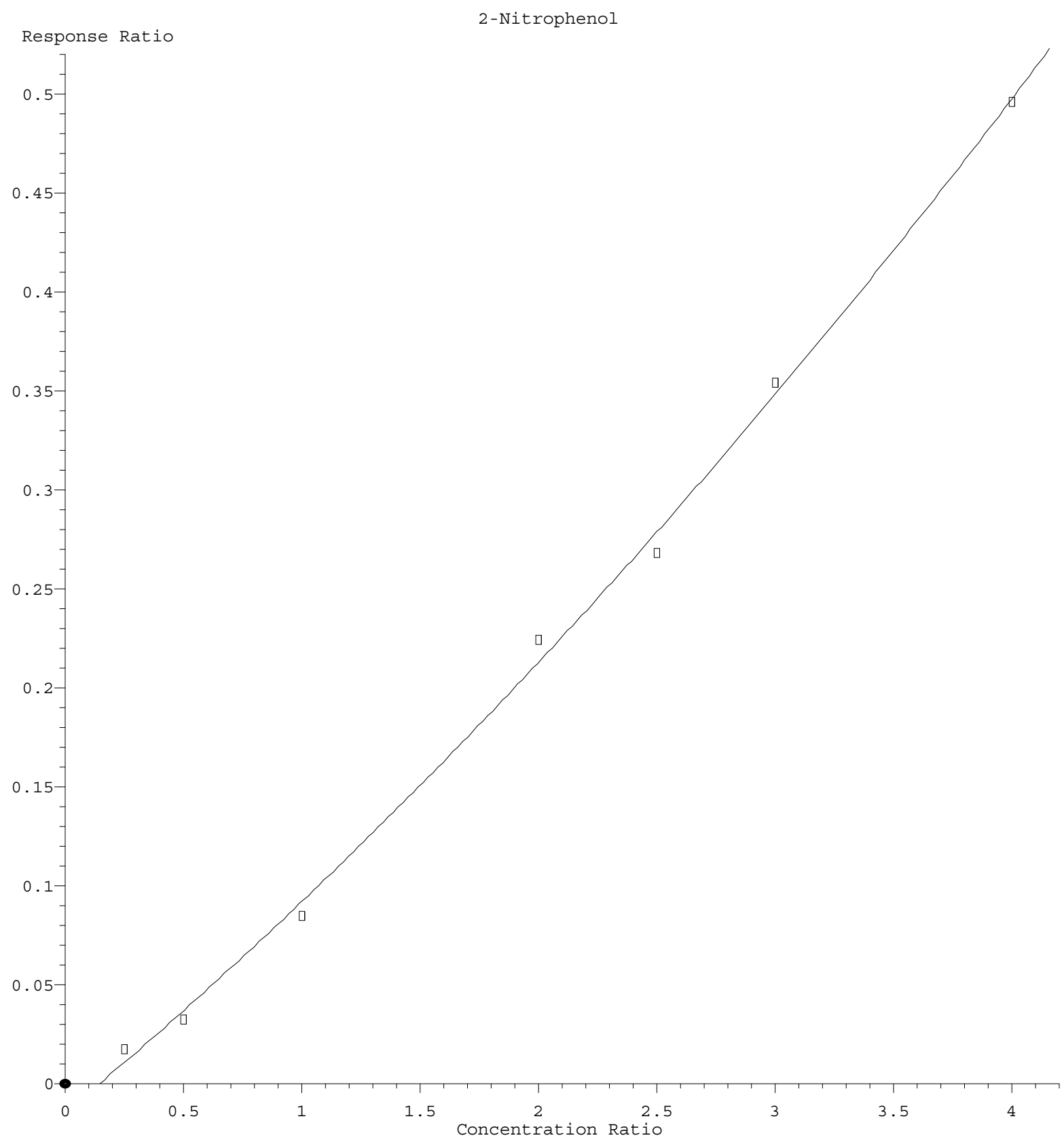

R = 7.149e-003 A*A + 9.944e-002 A - 1.454e-002
Coef of Det (r^2) = 0.997916 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG012425.M
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