Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG121625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Dec 17 05:53:31 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG064953.D 5 =BG064954.D 10 =BG064955.D 20 =BG064956.D 40 =BG064961.D 50 =BG064958.D 60 =BG064959.D 80 =BG0649
60.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.603	0.514	0.516	0.493	0.450	0.467	0.453	0.499	10.60
3)		Pyridine		1.765	1.575	1.650	1.565	1.531	1.555	1.522	1.595	5.38
4)		n-Nitrosodimet...			0.825	0.819	0.763	0.756	0.786	0.768	0.786	3.75
5)	S	2-Fluorophenol		1.197	1.207	1.300	1.279	1.212	1.245	1.242	1.240	3.12
6)		Aniline		2.378	2.351	2.449	2.449	2.323	2.378	2.407	2.391	1.99
7)	S	Phenol-d6		1.692	1.665	1.799	1.791	1.704	1.748	1.752	1.736	2.92
8)		2-Chlorophenol		1.289	1.322	1.381	1.412	1.346	1.387	1.394	1.362	3.25
9)		Benzaldehyde			1.219	1.122	1.158	1.481	1.379	1.405	1.294	11.36
10)	C	Phenol		1.827	1.904	1.967	1.970	1.928	1.941	1.975	1.930	2.72
11)		bis(2-Chloroet...		1.421	1.427	1.483	1.509	1.416	1.413	1.426	1.442	2.63
12)		1,3-Dichlorobe...		1.469	1.485	1.539	1.548	1.465	1.484	1.492	1.497	2.20
13)	C	1,4-Dichlorobe...		1.521	1.498	1.613	1.576	1.499	1.523	1.504	1.533	2.88
14)		1,2-Dichlorobe...		1.458	1.484	1.536	1.544	1.462	1.488	1.492	1.495	2.23
15)		Benzyl Alcohol			1.408	1.507	1.475	1.414	1.439	1.480	1.454	2.75
16)		2,2'-oxybis(1-...		3.459	3.587	3.686	3.643	3.488	3.529	3.537	3.561	2.31
17)		2-Methylphenol		1.247	1.243	1.358	1.342	1.279	1.310	1.323	1.300	3.48
18)		Hexachloroethane		0.523	0.560	0.561	0.573	0.539	0.548	0.553	0.551	2.99
19)	P	n-Nitroso-di-n...	1.225	1.260	1.336	1.403	1.412	1.312	1.339	1.353	1.330	4.83
20)		3+4-Methylphenols			1.697	1.820	1.840	1.739	1.784	1.819	1.783	3.11
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.515	0.556	0.554	0.570	0.551	0.543	0.544	0.548	3.07
23)	S	Nitrobenzene-d5		0.249	0.285	0.320	0.383	0.368	0.371	0.381	0.337	15.77
24)		Nitrobenzene		0.272	0.317	0.365	0.415	0.391	0.398	0.404	0.366	14.39
25)		Isophorone		0.812	0.832	0.876	0.881	0.829	0.832	0.836	0.843	3.04
26)	C	2-Nitrophenol		0.080	0.095	0.115	0.152	0.143	0.151	0.157	0.128	24.20
27)		2,4-Dimethylph...		0.306	0.344	0.345	0.350	0.333	0.339	0.342	0.337	4.32
28)		bis(2-Chloroet...		0.441	0.471	0.487	0.503	0.475	0.479	0.476	0.476	3.95
29)	C	2,4-Dichloroph...		0.273	0.316	0.334	0.355	0.338	0.342	0.345	0.329	8.29
30)		1,2,4-Trichlor...		0.334	0.346	0.358	0.366	0.351	0.352	0.357	0.352	2.90
31)		Naphthalene		1.053	1.112	1.123	1.129	1.075	1.079	1.076	1.092	2.63
32)		Benzoic acid			0.134	0.158	0.237	0.237	0.252	0.269	0.214	25.59
33)		4-Chloroaniline		0.458	0.477	0.492	0.505	0.470	0.479	0.487	0.481	3.16
34)	C	Hexachlorobuta...		0.232	0.265	0.259	0.265	0.255	0.254	0.258	0.256	4.37
35)		Caprolactam			0.120	0.127	0.129	0.116	0.119	0.118	0.122	4.25
36)	C	4-Chloro-3-met...		0.368	0.384	0.395	0.411	0.377	0.390	0.395	0.388	3.58
37)		2-Methylnaphth...		0.785	0.850	0.863	0.883	0.827	0.837	0.830	0.839	3.70
38)		1-Methylnaphth...		0.808	0.858	0.860	0.861	0.813	0.832	0.825	0.837	2.73

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.539	0.569	0.591	0.600	0.587	0.591	0.593	0.581	3.59
41)	P	Hexachlorocycl...		0.299	0.334	0.378	0.378	0.384	0.389	0.360	9.98
42)	S	2,4,6-Tribromo...	0.225	0.245	0.270	0.278	0.260	0.273	0.265	0.259	7.14
43)	C	2,4,6-Trichlor...	0.330	0.350	0.376	0.400	0.394	0.398	0.402	0.378	7.49
44)		2,4,5-Trichlor...	0.358	0.402	0.428	0.448	0.434	0.443	0.451	0.423	7.85
45)	S	2-Fluorobiphenyl	1.290	1.377	1.398	1.390	1.325	1.335	1.294	1.344	3.32
46)		1,1'-Biphenyl	1.369	1.465	1.475	1.489	1.433	1.446	1.426	1.443	2.77
47)		2-Chloronaphth...	1.069	1.122	1.163	1.165	1.129	1.140	1.137	1.132	2.85
48)		2-Nitroaniline	0.194	0.220	0.262	0.338	0.316	0.340	0.344	0.288	21.74
49)		Acenaphthylene	1.782	1.905	1.939	1.957	1.877	1.892	1.849	1.886	3.11
50)		Dimethylphthalate	1.433	1.531	1.559	1.555	1.451	1.508	1.472	1.501	3.35
51)		2,6-Dinitrotol...	0.134	0.154	0.199	0.257	0.240	0.264	0.267	0.216	25.33
52)	C	Acenaphthene	1.118	1.179	1.176	1.200	1.150	1.175	1.153	1.165	2.29
53)		3-Nitroaniline	0.165	0.200	0.252	0.304	0.283	0.310	0.304	0.260	22.01
54)	P	2,4-Dinitrophenol		0.073	0.084	0.107	0.101	0.115	0.120	0.100	18.25
55)		Dibenzofuran	1.790	1.847	1.898	1.861	1.757	1.798	1.746	1.814	3.10
56)	P	4-Nitrophenol		0.190	0.222	0.269	0.247	0.269	0.263	0.244	12.98
57)		2,4-Dinitrotol...	0.188	0.216	0.293	0.384	0.347	0.386	0.395	0.316	27.02
58)		Fluorene	1.450	1.516	1.541	1.524	1.418	1.472	1.416	1.477	3.48
59)		2,3,4,6-Tetrac...	0.328	0.347	0.387	0.410	0.381	0.402	0.395	0.379	7.97
60)		Diethylphthalate	1.563	1.637	1.716	1.678	1.533	1.588	1.528	1.606	4.54
61)		4-Chlorophenyl...	0.741	0.797	0.794	0.791	0.749	0.759	0.744	0.768	3.27
62)		4-Nitroaniline	0.195	0.241	0.292	0.333	0.310	0.333	0.329	0.291	18.28
63)		Azobenzene	1.403	1.498	1.526	1.513	1.425	1.476	1.429	1.467	3.28
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.051	0.057	0.082	0.080	0.083	0.091	0.074	21.78
66)	c	n-Nitrosodiphe...	0.534	0.578	0.587	0.614	0.575	0.570	0.588	0.578	4.19
67)		4-Bromophenyl-...	0.219	0.229	0.228	0.244	0.232	0.229	0.235	0.231	3.33
68)		Hexachlorobenzene	0.244	0.265	0.261	0.279	0.263	0.262	0.268	0.263	3.87
69)		Atrazine	0.215	0.239	0.238	0.247	0.229	0.233	0.235	0.234	4.17
70)	C	Pentachlorophenol		0.144	0.155	0.179	0.169	0.173	0.180	0.166	8.66
71)		Phenanthrene	1.118	1.159	1.144	1.175	1.104	1.092	1.093	1.127	2.95
72)		Anthracene	1.095	1.176	1.184	1.200	1.136	1.137	1.134	1.152	3.16
73)		Carbazole	0.983	1.044	1.064	1.083	0.993	1.005	1.013	1.026	3.68
74)		Di-n-butylphth...	1.176	1.289	1.306	1.338	1.229	1.226	1.228	1.256	4.49
75)	C	Fluoranthene	1.311	1.376	1.375	1.394	1.283	1.274	1.280	1.328	3.94
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.668	0.650	0.530	0.607	0.546	0.337	0.556	21.66
78)		Pyrene	1.259	1.334	1.352	1.333	1.278	1.270	1.238	1.295	3.39
79)	S	Terphenyl-d14	1.062	1.134	1.134	1.110	1.024	1.003	0.959	1.061	6.47
80)		Butylbenzylpht...	0.457	0.510	0.522	0.541	0.526	0.528	0.526	0.516	5.31
81)		Benzo(a)anthra...	1.318	1.384	1.394	1.413	1.355	1.361	1.339	1.366	2.41
82)		3,3'-Dichlorob...		0.494	0.504	0.500	0.471	0.473	0.428	0.479	5.90
83)		Chrysene	1.261	1.329	1.323	1.362	1.291	1.303	1.269	1.305	2.73
84)		Bis(2-ethylhex...	0.744	0.804	0.808	0.828	0.789	0.785	0.775	0.790	3.38
85)	c	Di-n-octyl pht...		1.317	1.343	1.425	1.362	1.371	1.344	1.361	2.69

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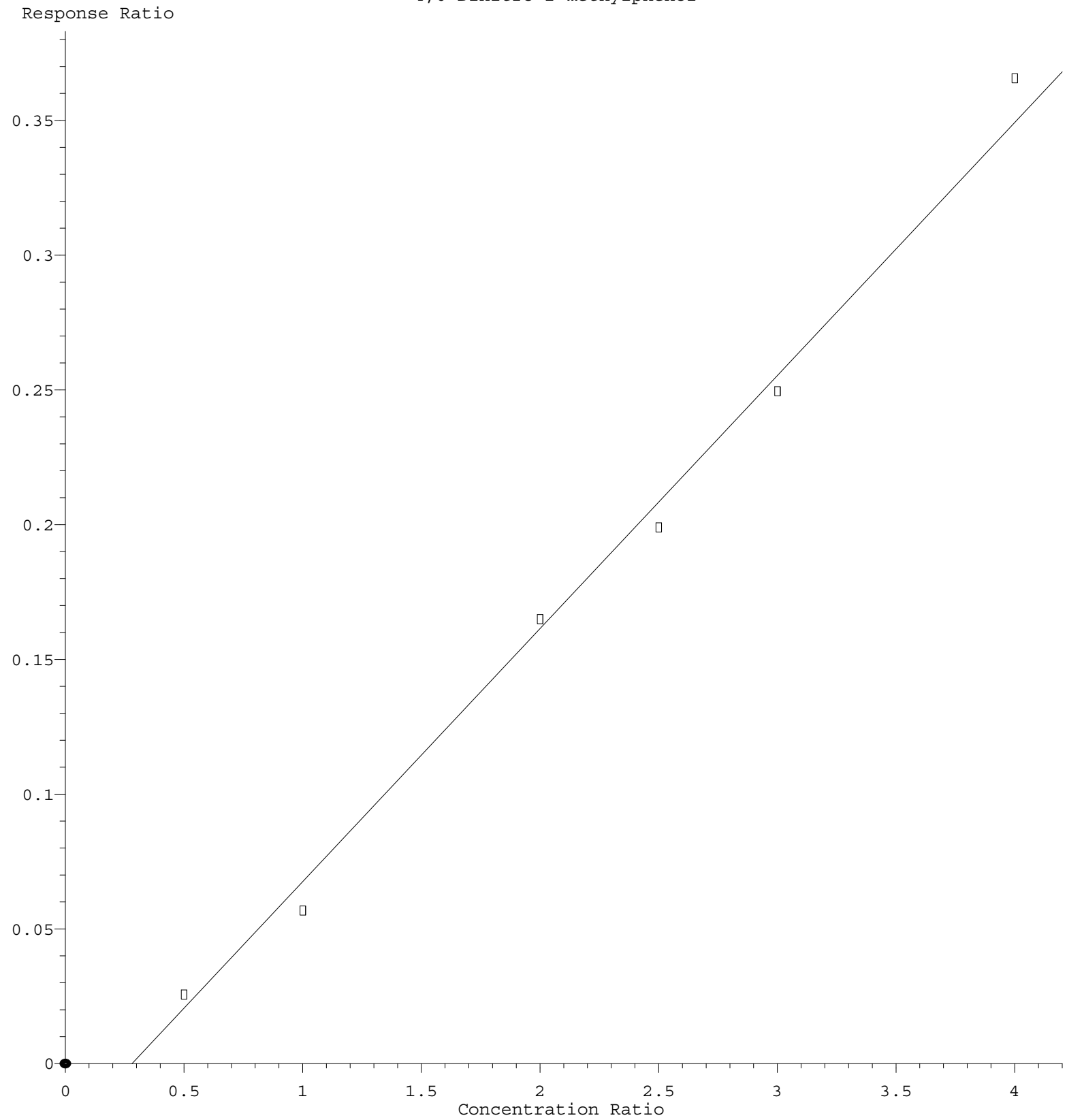
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.407	1.467	1.493	1.548	1.495	1.498	1.520	1.490	2.96
88)		Benzo(b)fluora...	1.117	1.225	1.234	1.295	1.214	1.232	1.251	1.224	4.39
89)		Benzo(k)fluora...	1.165	1.216	1.282	1.320	1.256	1.258	1.243	1.249	3.95
90)	C	Benzo(a)pyrene	1.097	1.148	1.167	1.217	1.168	1.171	1.175	1.164	3.07
91)		Dibenzo(a,h)an...	1.179	1.209	1.255	1.294	1.244	1.243	1.260	1.241	2.97
92)		Benzo(g,h,i)pe...	1.192	1.179	1.206	1.241	1.196	1.207	1.212	1.205	1.60

(#) = Out of Range

4,6-Dinitro-2-methylphenol



Response = 9.382e-002 * Amt - 2.638e-002
Coef of Det (r^2) = 0.993493 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG121625.M
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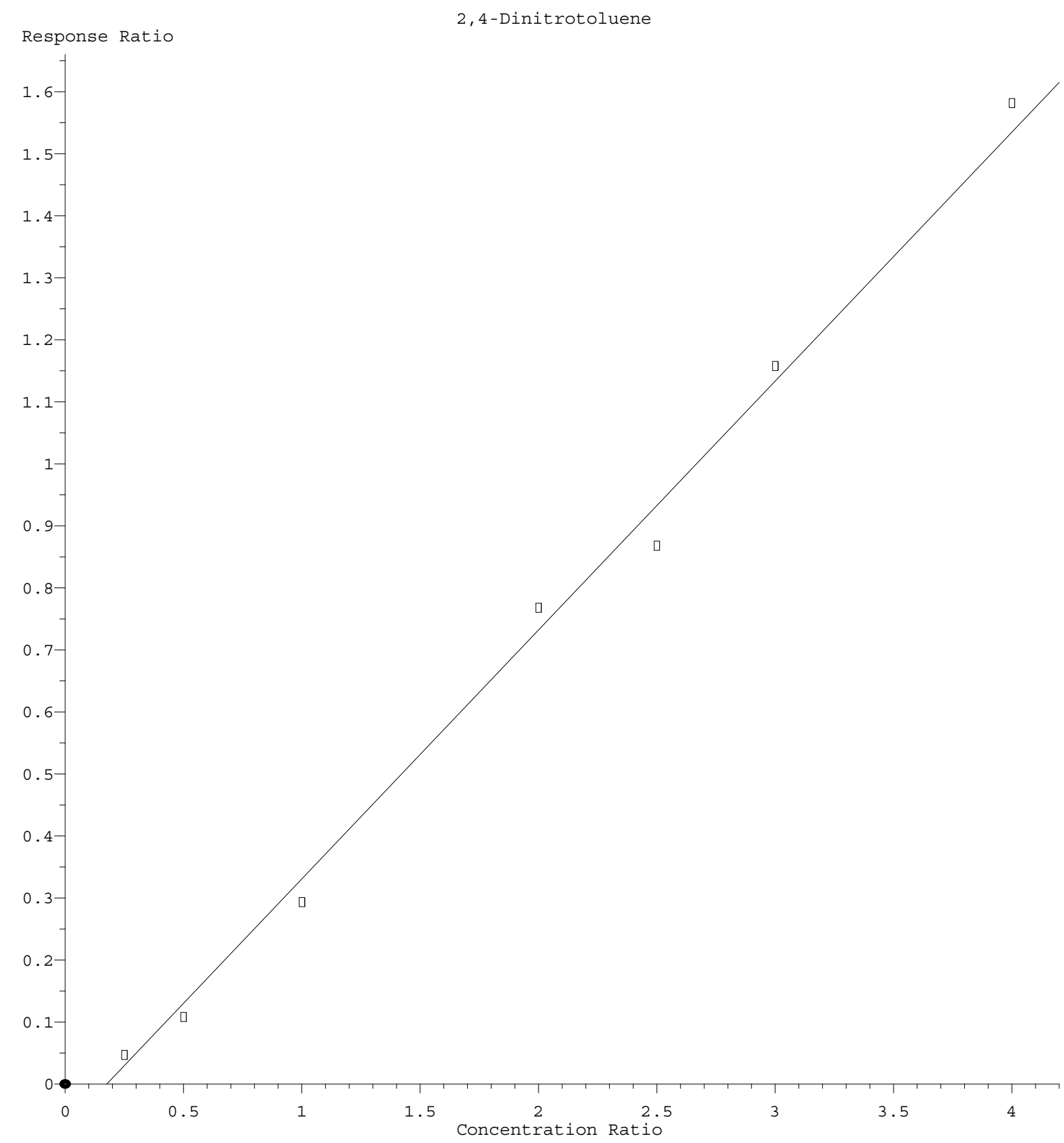

Response = 4.014e-001 * Amt - 7.071e-002
Coef of Det (r^2) = 0.994545 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG121625.M
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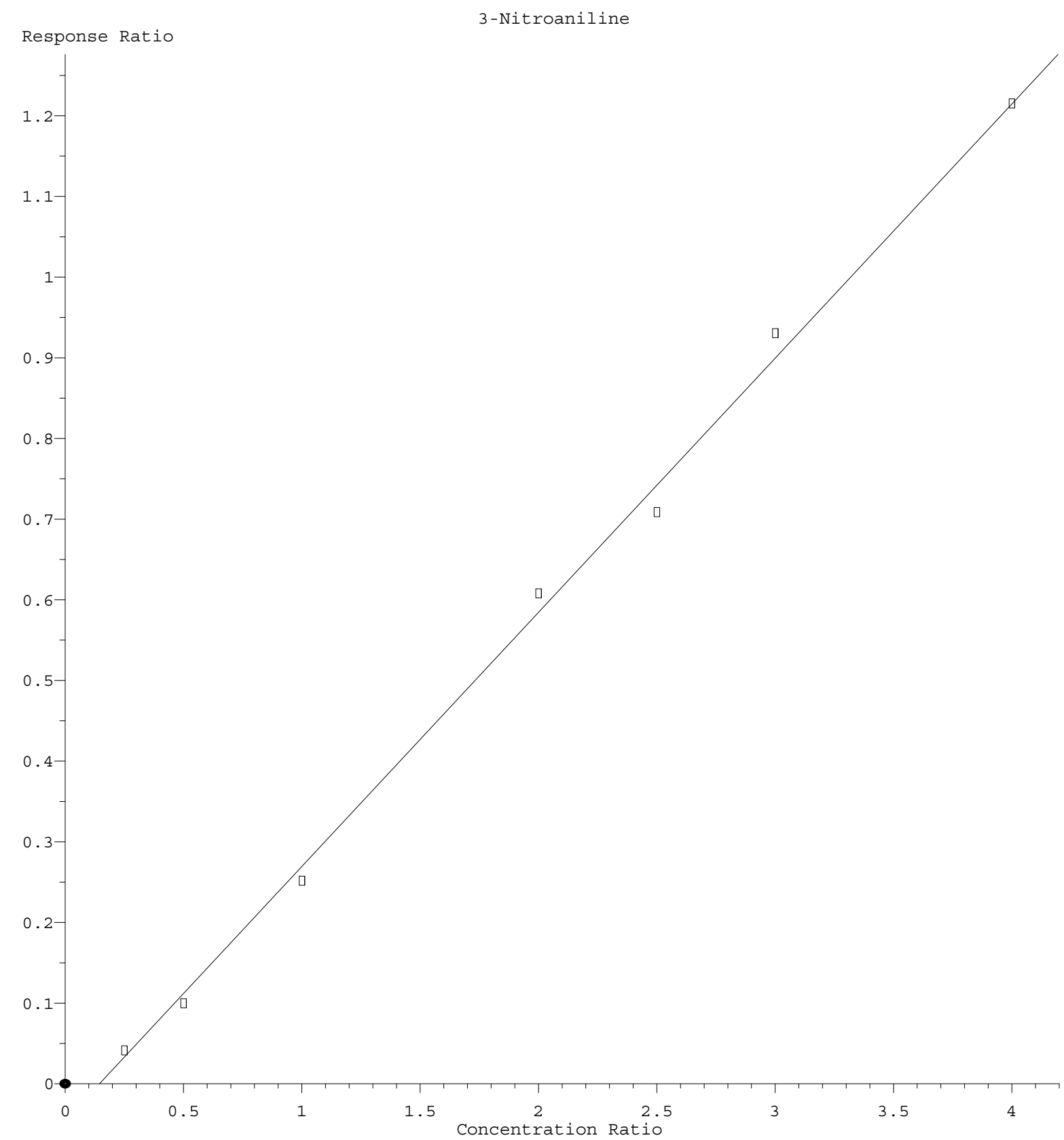

Response = 3.151e-001 * Amt - 4.570e-002
Coef of Det (r^2) = 0.997427 Curve Fit: wlr(1/a)
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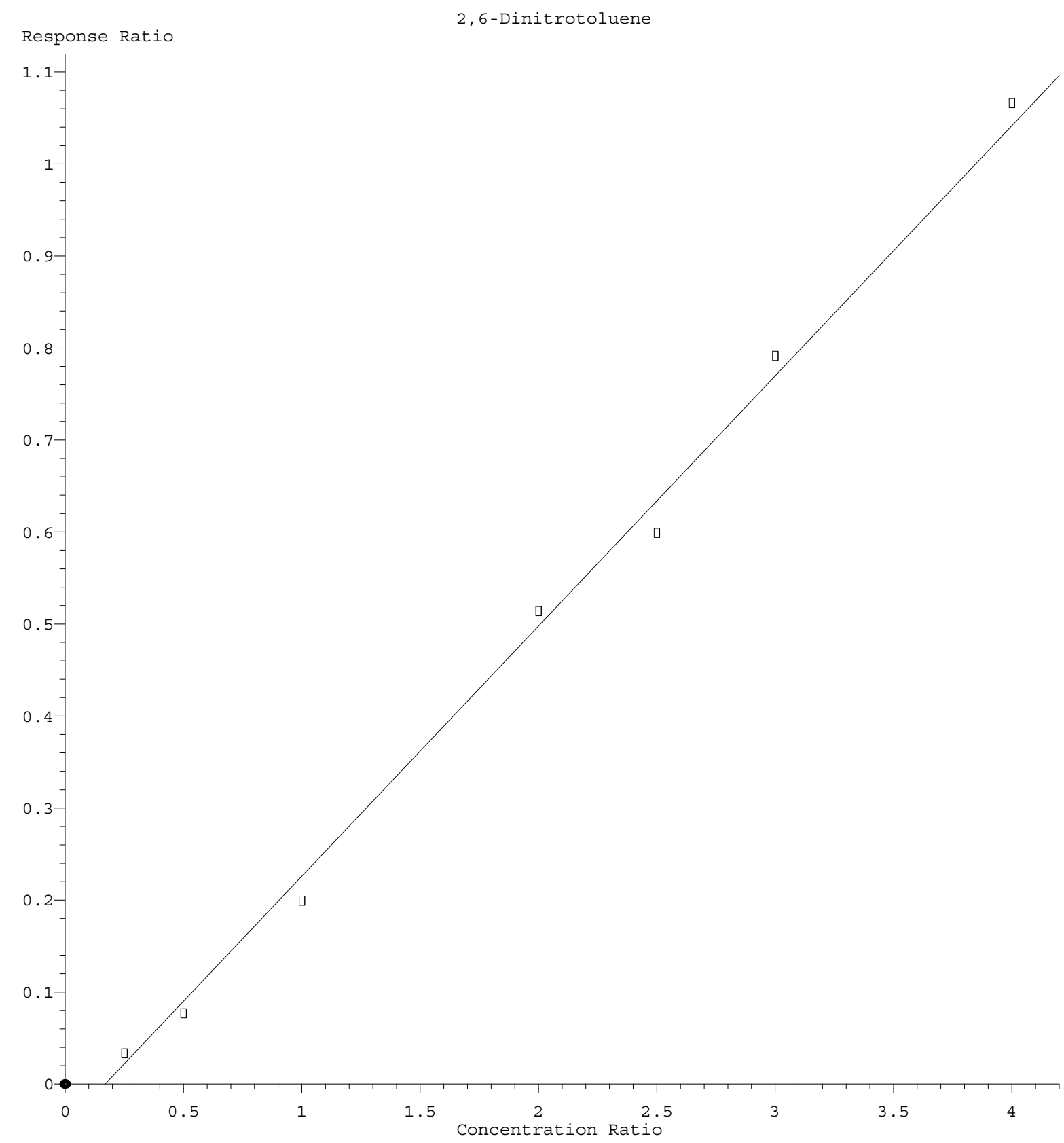

Response = 2.717e-001 * Amt - 4.581e-002
Coef of Det (r^2) = 0.995499 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG121625.M
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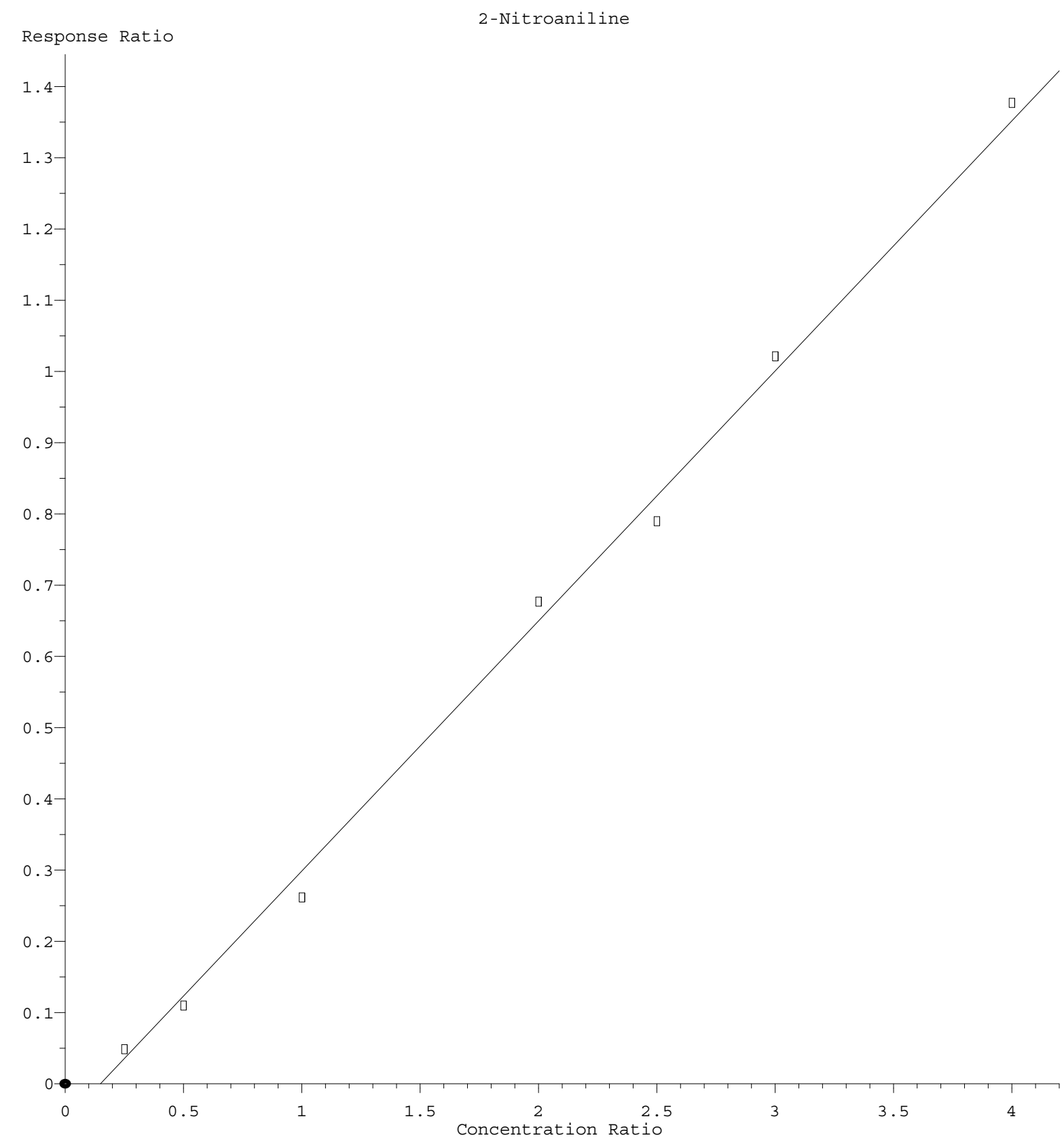

Response = 3.509e-001 * Amt - 5.215e-002
Coef of Det (r^2) = 0.996123 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG121625.M
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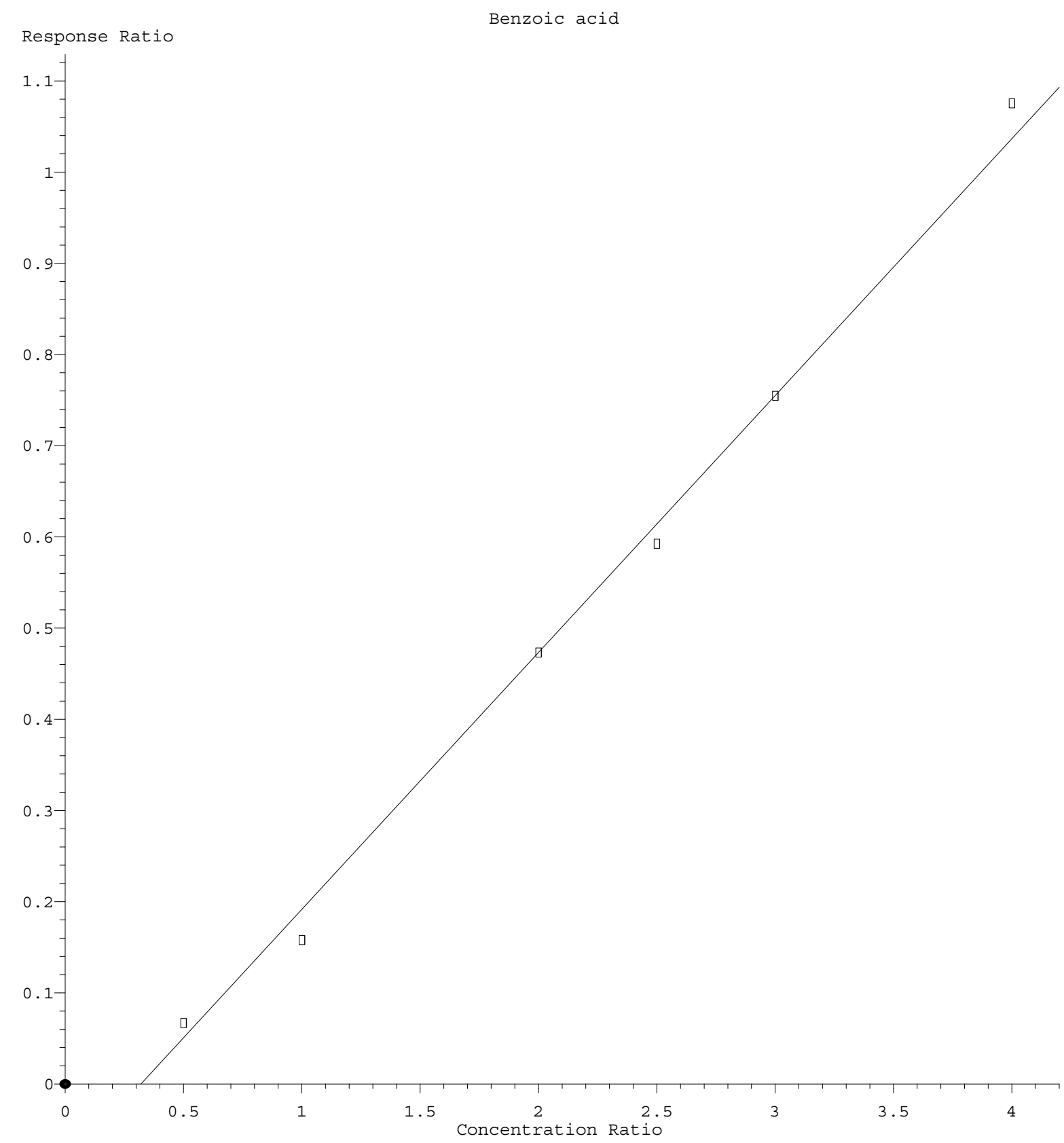

Response = 2.817e-001 * Amt - 9.017e-002
Coef of Det (r^2) = 0.994410 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG121625.M
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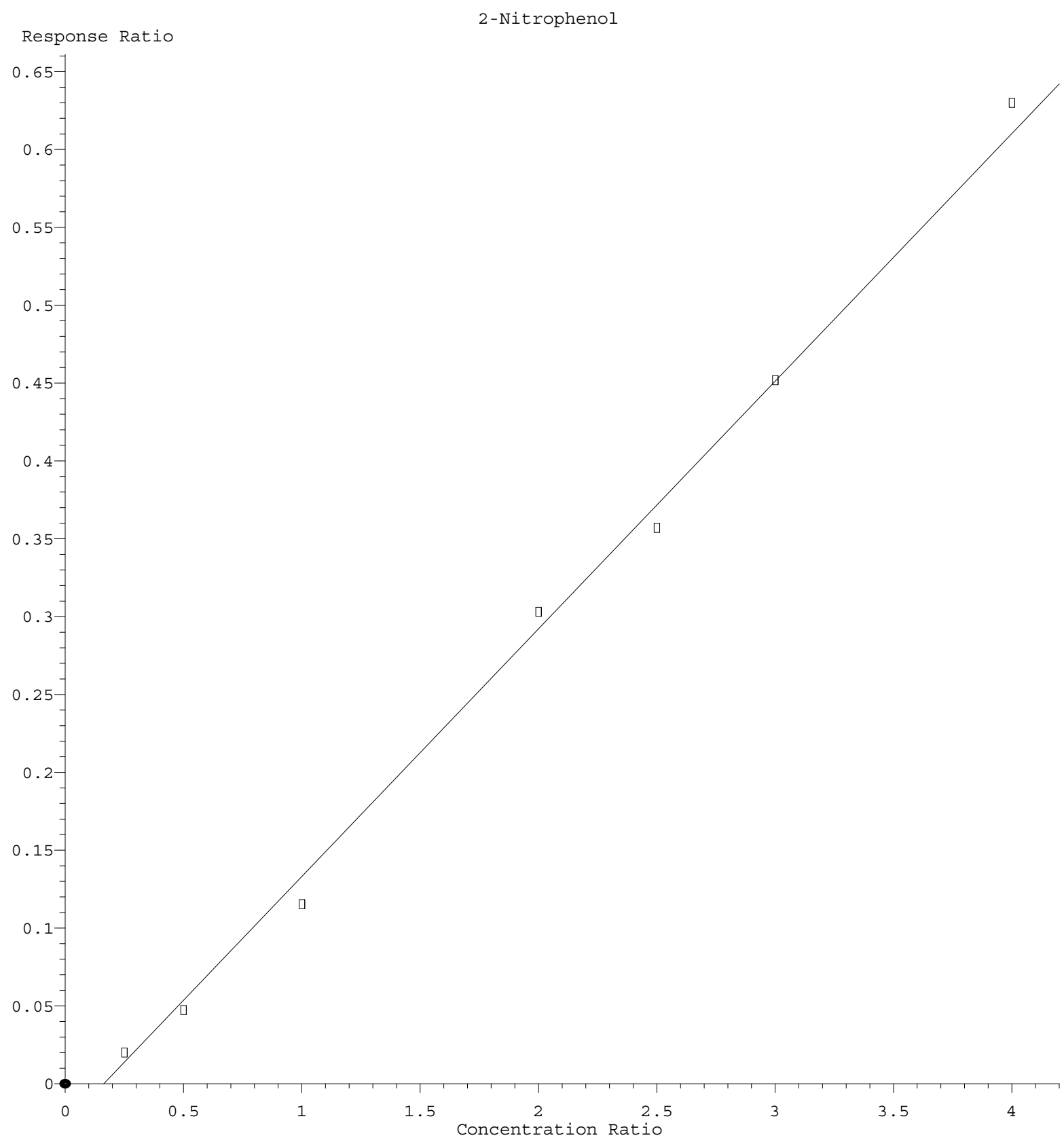

Response = 1.589e-001 * Amt - 2.594e-002
Coef of Det (r^2) = 0.995829 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG121625.M
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