Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF071525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 15 17:53:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF143093.D 5 =BF143094.D 10 =BF143095.D 20 =BF143096.D 40 =BF143097.D 50 =BF143098.D 60 =BF143099.D 80 =BF1431
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.637	0.635	0.640	0.627	0.661	0.626	0.586	0.630	3.58
3)		Pyridine		1.606	1.541	1.616	1.594	1.681	1.612	1.519	1.596	3.33
4)		n-Nitrosodimet...			0.788	0.825	0.816	0.879	0.840	0.812	0.827	3.70
5)	S	2-Fluorophenol		1.334	1.272	1.315	1.255	1.305	1.232	1.148	1.266	4.98
6)		Aniline		2.330	2.254	2.280	2.205	2.351	2.196	2.069	2.241	4.26
7)	S	Phenol-d6		1.685	1.616	1.640	1.565	1.643	1.547	1.441	1.591	5.11
8)		2-Chlorophenol		1.239	1.208	1.321	1.273	1.363	1.286	1.212	1.272	4.51
9)		Benzaldehyde			1.196	1.149	1.451	1.452	1.163	0.864	1.212	18.15
10)	C	Phenol		1.766	1.742	1.782	1.709	1.780	1.694	1.584	1.723	4.07
11)		bis(2-Chloroet...		1.425	1.363	1.366	1.309	1.371	1.291	1.209	1.334	5.26
12)		1,3-Dichlorobe...		1.547	1.482	1.470	1.414	1.471	1.388	1.286	1.437	5.83
13)	C	1,4-Dichlorobe...		1.570	1.473	1.504	1.412	1.482	1.386	1.292	1.446	6.27
14)		1,2-Dichlorobe...		1.468	1.409	1.430	1.364	1.417	1.321	1.241	1.379	5.57
15)		Benzyl Alcohol			1.126	1.204	1.167	1.255	1.189	1.132	1.179	4.09
16)		2,2'-oxybis(1-...		2.713	2.532	2.528	2.405	2.517	2.342	2.171	2.458	6.99
17)		2-Methylphenol		1.132	1.081	1.124	1.083	1.150	1.077	1.035	1.098	3.63
18)		Hexachloroethane		0.465	0.440	0.486	0.472	0.500	0.476	0.455	0.471	4.22
19)	P	n-Nitroso-di-n...	0.956	1.029	0.988	1.002	0.964	1.017	0.945	0.897	0.975	4.44
20)		3+4-Methylphenols			1.399	1.419	1.356	1.421	1.293	1.189	1.346	6.74
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.538	0.516	0.500	0.469	0.482	0.451	0.419	0.482	8.33
23)	S	Nitrobenzene-d5		0.283	0.319	0.363	0.372	0.399	0.390	0.370	0.357	11.59
24)		Nitrobenzene		0.282	0.317	0.357	0.356	0.385	0.366	0.347	0.344	9.94
25)		Isophorone		0.705	0.688	0.697	0.678	0.718	0.687	0.651	0.689	3.11
26)	C	2-Nitrophenol		0.063	0.075	0.106	0.120	0.141	0.146	0.147	0.114	29.95
27)		2,4-Dimethylph...		0.325	0.322	0.326	0.320	0.332	0.315	0.299	0.320	3.38
28)		bis(2-Chloroet...		0.444	0.434	0.435	0.409	0.424	0.404	0.375	0.418	5.63
29)	C	2,4-Dichloroph...		0.237	0.254	0.267	0.267	0.280	0.271	0.254	0.262	5.43
30)		1,2,4-Trichlor...		0.316	0.305	0.307	0.295	0.303	0.287	0.267	0.297	5.40
31)		Naphthalene		1.099	1.048	1.037	0.966	0.987	0.937	0.878	0.993	7.52
32)		Benzoic acid			0.080	0.111	0.144	0.159	0.171	0.172	0.139	26.27
33)		4-Chloroaniline		0.420	0.420	0.414	0.398	0.409	0.381	0.353	0.399	6.12
34)	C	Hexachlorobuta...		0.185	0.176	0.183	0.177	0.182	0.176	0.163	0.178	4.10
35)		Caprolactam			0.073	0.078	0.083	0.087	0.086	0.083	0.082	6.36
36)	C	4-Chloro-3-met...		0.285	0.290	0.296	0.293	0.307	0.293	0.277	0.291	3.26
37)		2-Methylnaphth...		0.644	0.626	0.615	0.580	0.597	0.562	0.524	0.592	6.91
38)		1-Methylnaphth...		0.678	0.660	0.631	0.603	0.615	0.578	0.537	0.615	7.81

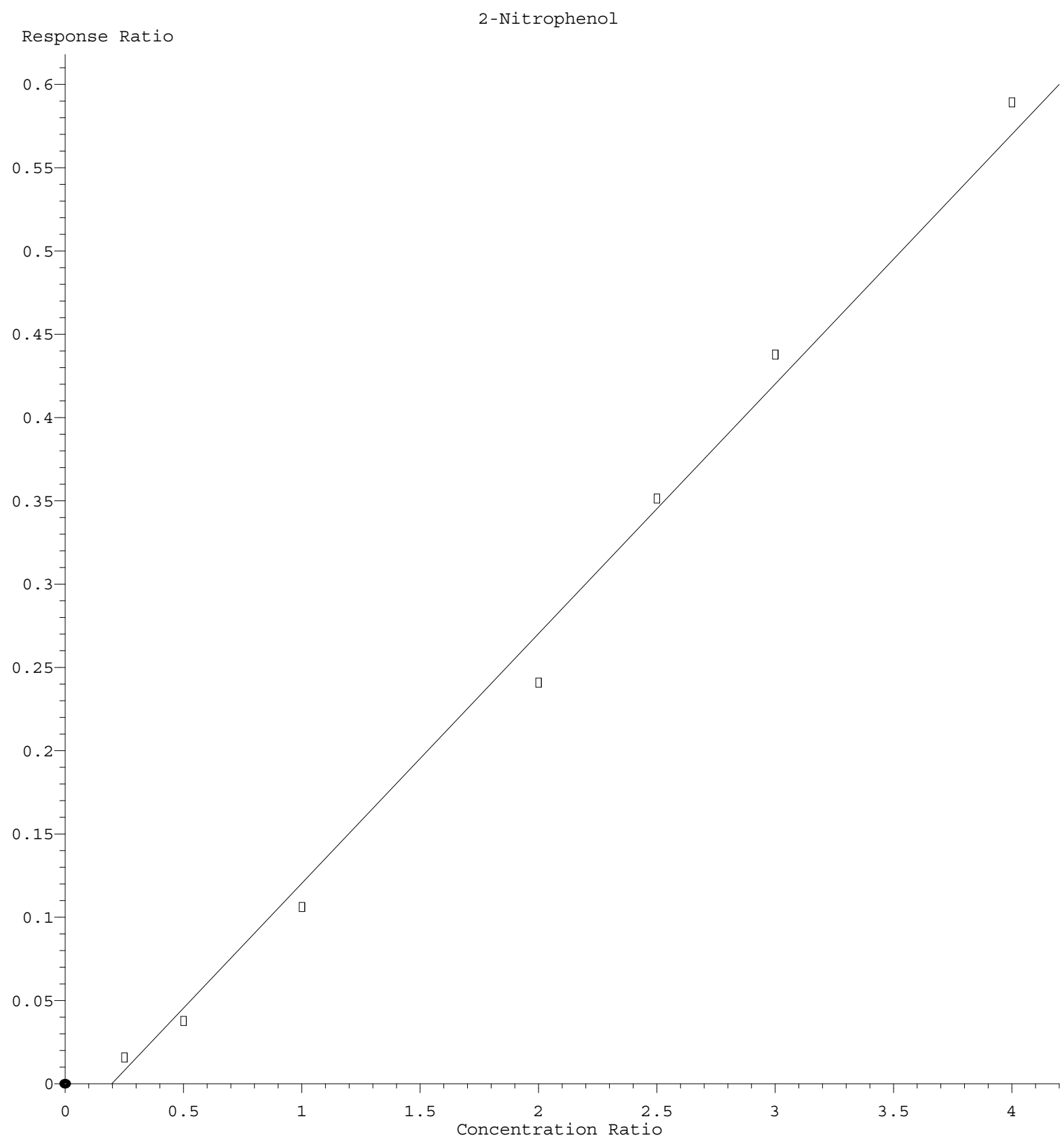
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF071525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.616	0.600	0.602	0.578	0.601	0.561	0.522	0.583	5.56
41)	P	Hexachlorocycl...		0.254	0.306	0.323	0.356	0.356	0.344	0.323	12.16
42)	S	2,4,6-Tribromo...	0.136	0.157	0.181	0.188	0.204	0.194	0.188	0.178	13.23
43)	C	2,4,6-Trichlor...	0.300	0.312	0.377	0.376	0.400	0.393	0.377	0.362	10.94
44)		2,4,5-Trichlor...	0.336	0.367	0.390	0.393	0.418	0.377	0.378	0.380	6.62
45)	S	2-Fluorobiphenyl	1.777	1.645	1.602	1.456	1.460	1.355	1.238	1.505	12.18
46)		1,1'-Biphenyl	1.750	1.687	1.671	1.567	1.610	1.496	1.384	1.595	7.84
47)		2-Chloronaphth...	1.271	1.203	1.206	1.159	1.195	1.120	1.048	1.172	6.10
48)		2-Nitroaniline	0.180	0.224	0.296	0.328	0.372	0.363	0.355	0.303	24.51
49)		Acenaphthylene	2.060	2.011	2.034	1.959	1.989	1.867	1.746	1.952	5.65
50)		Dimethylphthalate	1.310	1.259	1.292	1.257	1.302	1.219	1.169	1.258	4.01
51)		2,6-Dinitrotol...	0.133	0.176	0.222	0.234	0.262	0.262	0.247	0.219	22.07
52)	C	Acenaphthene	1.273	1.204	1.173	1.127	1.168	1.088	1.032	1.152	6.85
53)		3-Nitroaniline	0.180	0.227	0.283	0.288	0.318	0.313	0.295	0.272	18.56
54)	P	2,4-Dinitrophenol		0.038	0.056	0.069	0.086	0.090	0.097	0.073	31.18
55)		Dibenzofuran	1.895	1.795	1.785	1.697	1.729	1.604	1.516	1.717	7.37
56)	P	4-Nitrophenol		0.164	0.201	0.224	0.239	0.237	0.232	0.216	13.37
57)		2,4-Dinitrotol...	0.147	0.197	0.253	0.295	0.326	0.319	0.320	0.265	26.25
58)		Fluorene	1.478	1.387	1.328	1.246	1.284	1.186	1.105	1.288	9.67
59)		2,3,4,6-Tetrac...	0.253	0.274	0.302	0.312	0.339	0.323	0.309	0.302	9.71
60)		Diethylphthalate	1.221	1.217	1.257	1.225	1.260	1.187	1.130	1.214	3.68
61)		4-Chlorophenyl...	0.666	0.642	0.631	0.614	0.625	0.586	0.555	0.617	5.92
62)		4-Nitroaniline	0.169	0.208	0.237	0.249	0.270	0.263	0.259	0.236	15.25
63)		Azobenzene	1.425	1.399	1.375	1.328	1.381	1.282	1.208	1.343	5.65
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.035	0.053	0.064	0.079	0.084	0.086	0.067	30.46
66)	c	n-Nitrosodiphe...	0.735	0.709	0.736	0.682	0.717	0.685	0.654	0.703	4.30
67)		4-Bromophenyl-...	0.231	0.219	0.234	0.222	0.239	0.228	0.219	0.227	3.38
68)		Hexachlorobenzene	0.249	0.237	0.247	0.235	0.250	0.239	0.231	0.241	3.12
69)		Atrazine	0.158	0.171	0.184	0.181	0.195	0.185	0.184	0.180	6.72
70)	C	Pentachlorophenol		0.098	0.125	0.132	0.149	0.145	0.145	0.132	14.47
71)		Phenanthrene	1.190	1.136	1.111	1.042	1.089	1.021	0.968	1.079	6.95
72)		Anthracene	1.158	1.126	1.126	1.057	1.106	1.042	0.983	1.085	5.62
73)		Carbazole	1.038	1.026	1.008	0.938	0.998	0.927	0.873	0.972	6.27
74)		Di-n-butylphth...	0.746	0.846	0.913	0.921	0.983	0.942	0.897	0.893	8.62
75)	C	Fluoranthene	1.044	1.053	1.009	0.960	0.998	0.938	0.869	0.981	6.59
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.664	0.786	0.834	0.674	0.616	0.514	0.681	17.02
78)		Pyrene	2.018	1.956	1.955	1.842	1.918	1.716	1.585	1.856	8.33
79)	S	Terphenyl-d14	1.563	1.471	1.437	1.343	1.385	1.246	1.133	1.368	10.53
80)		Butylbenzylpht...	0.179	0.233	0.310	0.343	0.385	0.395	0.384	0.318	26.22
81)		Benzo(a)anthra...	1.296	1.304	1.406	1.347	1.403	1.326	1.247	1.333	4.34
82)		3,3'-Dichlorob...		0.314	0.406	0.385	0.428	0.411	0.377	0.387	10.35
83)		Chrysene	1.286	1.234	1.211	1.201	1.270	1.228	1.162	1.227	3.41
84)		Bis(2-ethylhex...	0.273	0.343	0.479	0.515	0.578	0.591	0.583	0.480	26.25
85)	c	Di-n-octyl pht...		0.474	0.811	0.922	1.073	1.115	1.167	0.927	27.83

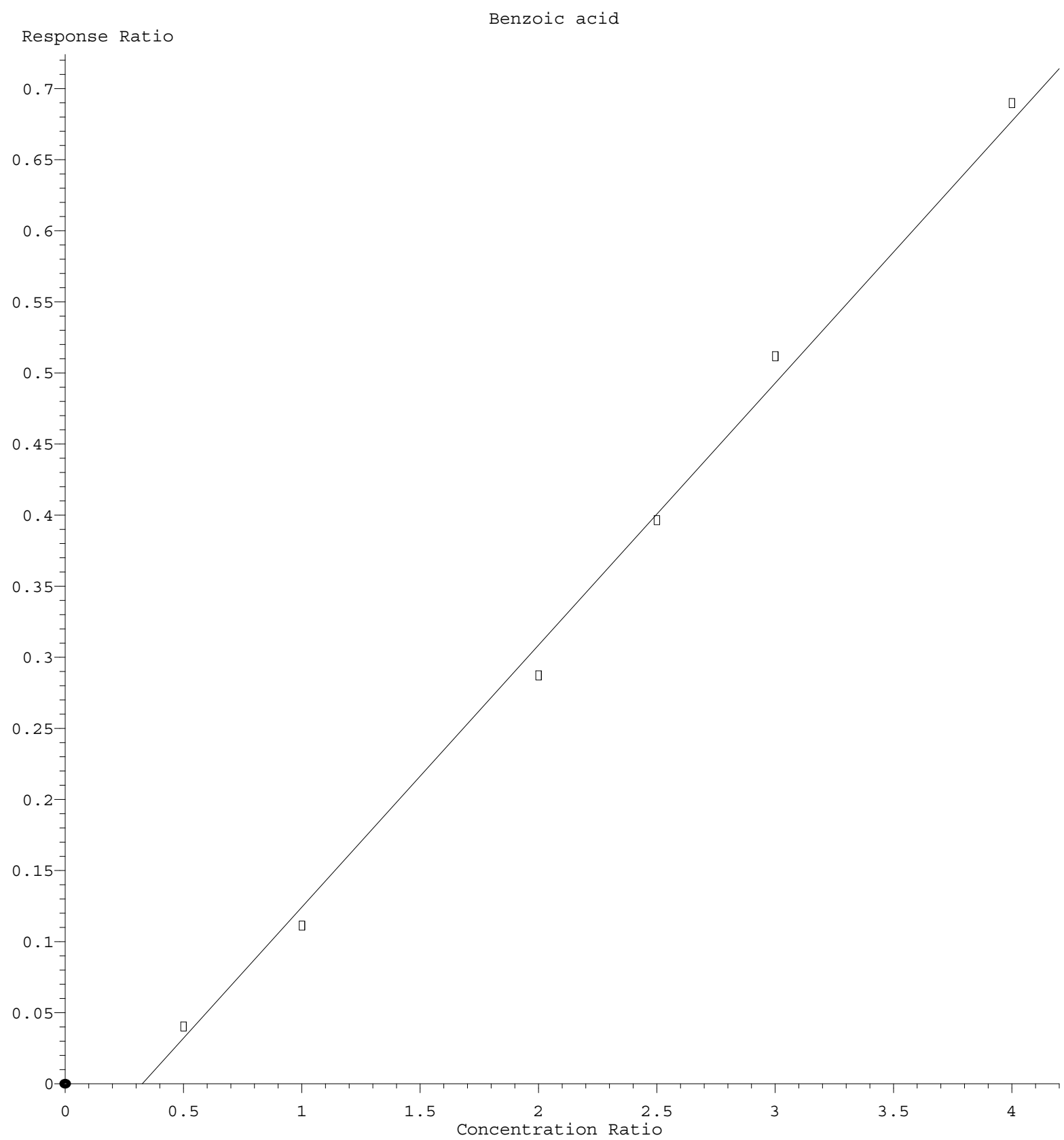
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF071525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.345	1.411	1.526	1.521	1.620	1.519	1.470	1.488	5.98
88)		Benzo(b)fluora...	1.063	1.191	1.171	1.082	1.297	1.185	1.087	1.154	7.17
89)		Benzo(k)fluora...	1.175	1.066	1.111	1.148	1.088	1.060	1.056	1.101	4.23
90)	C	Benzo(a)pyrene	0.989	1.019	1.108	1.124	1.196	1.124	1.078	1.091	6.41
91)		Dibenzo(a,h)an...	1.114	1.162	1.266	1.240	1.330	1.222	1.178	1.216	5.90
92)		Benzo(g,h,i)pe...	1.148	1.187	1.263	1.258	1.349	1.260	1.214	1.240	5.20

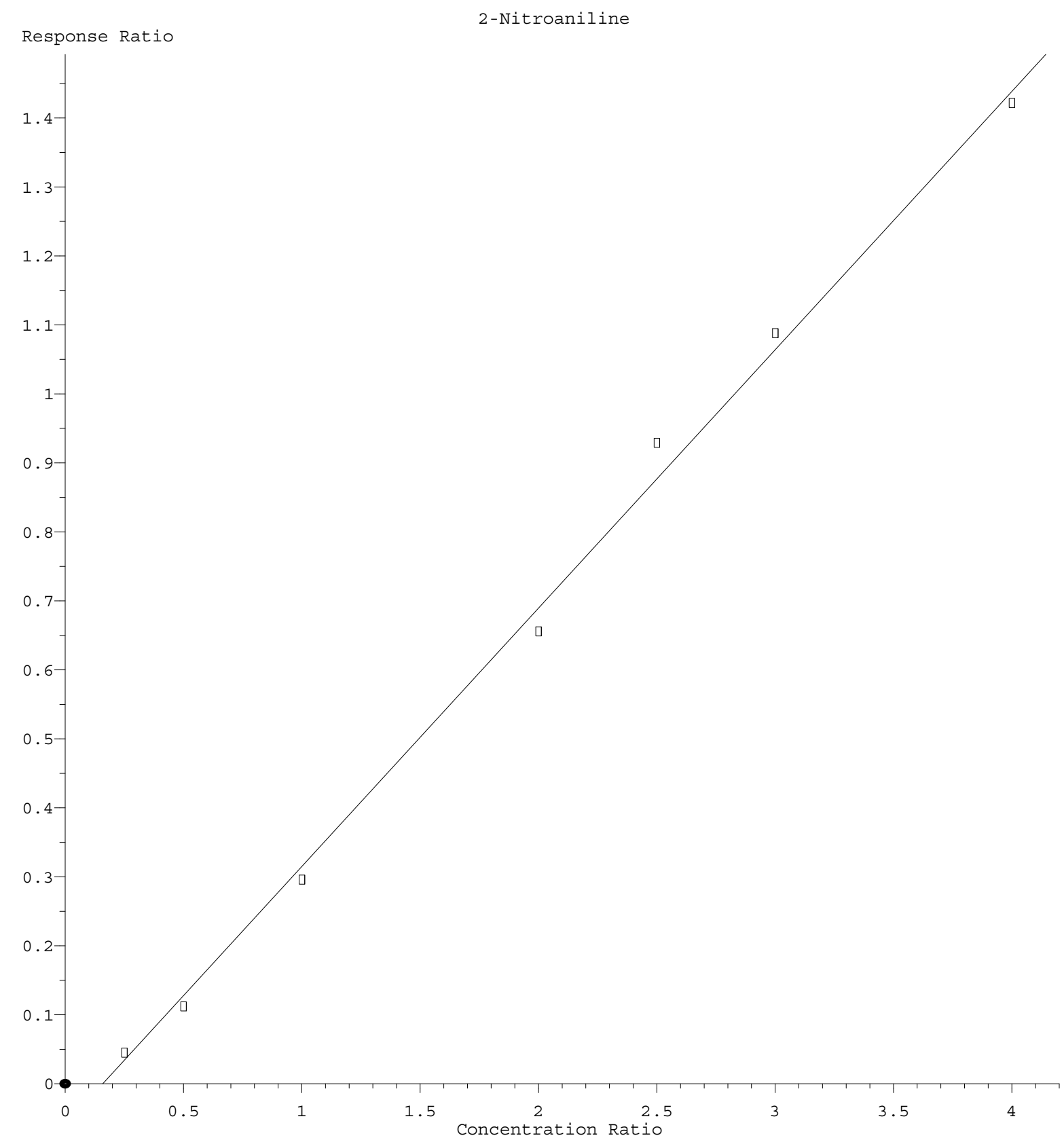
(#) = Out of Range



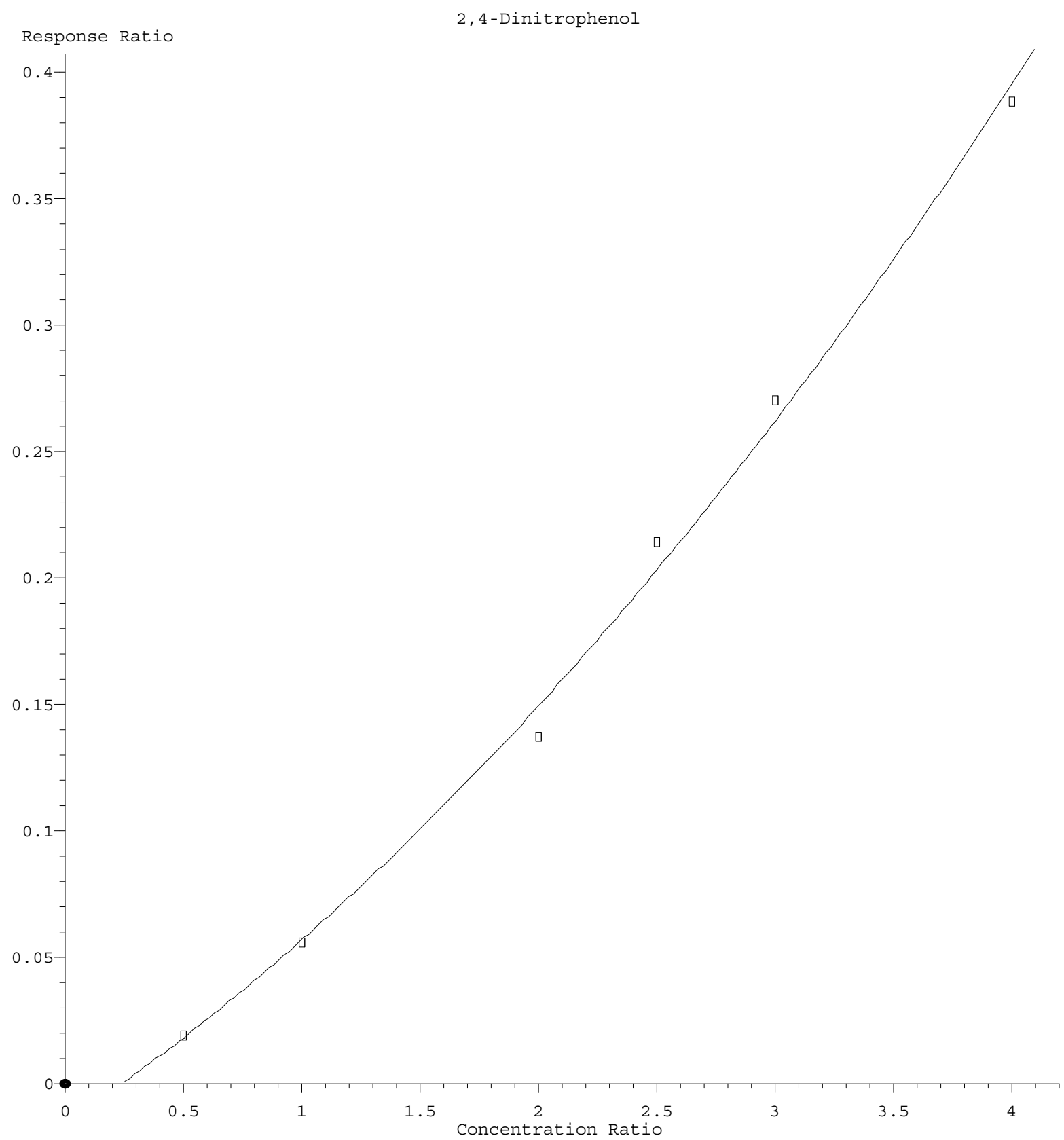
Response = 1.498e-001 * Amt - 2.944e-002
Coef of Det (r^2) = 0.992826 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025



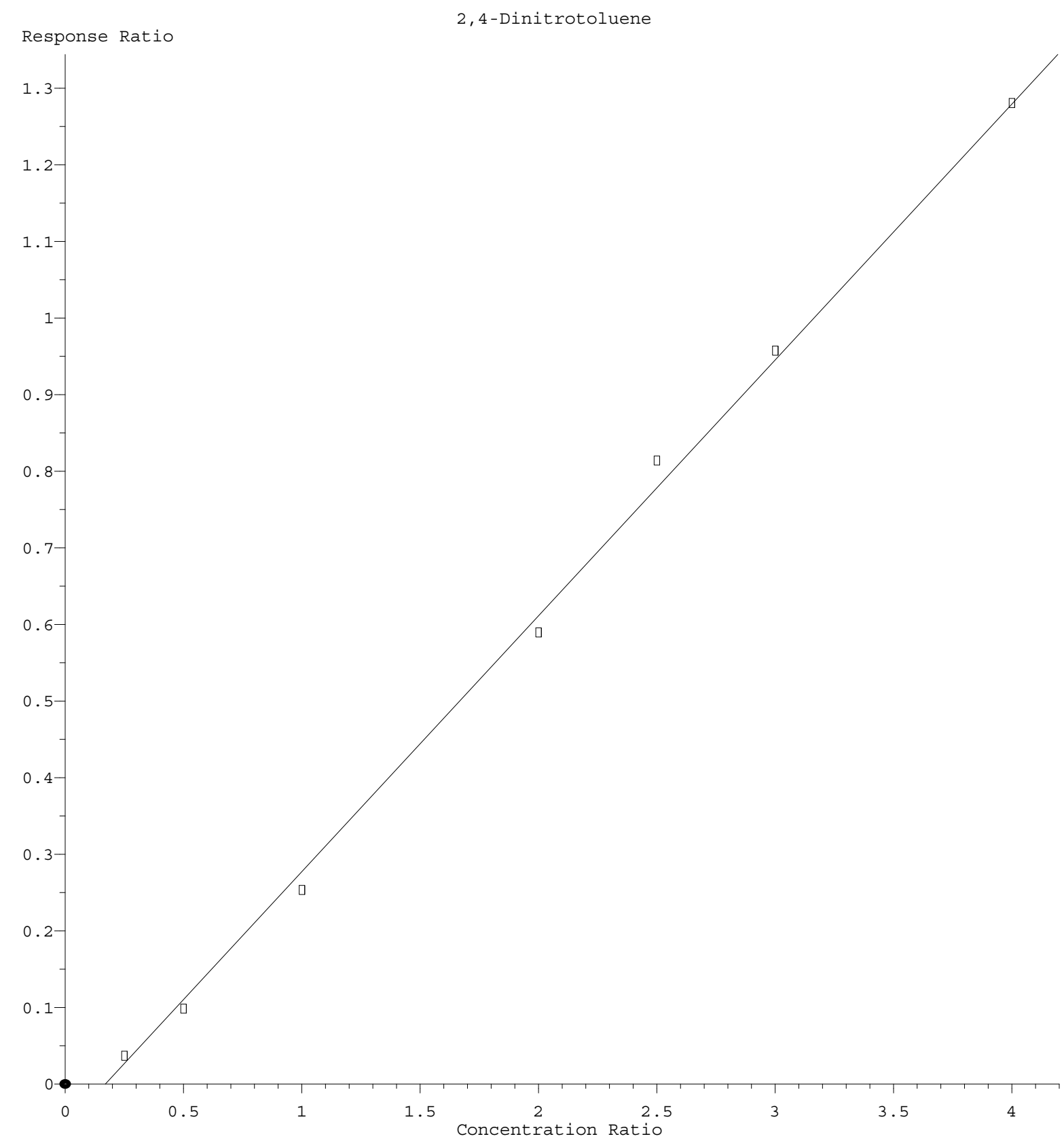
Response = 1.844e-001 * Amt - 6.013e-002
Coef of Det (r^2) = 0.995906 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025



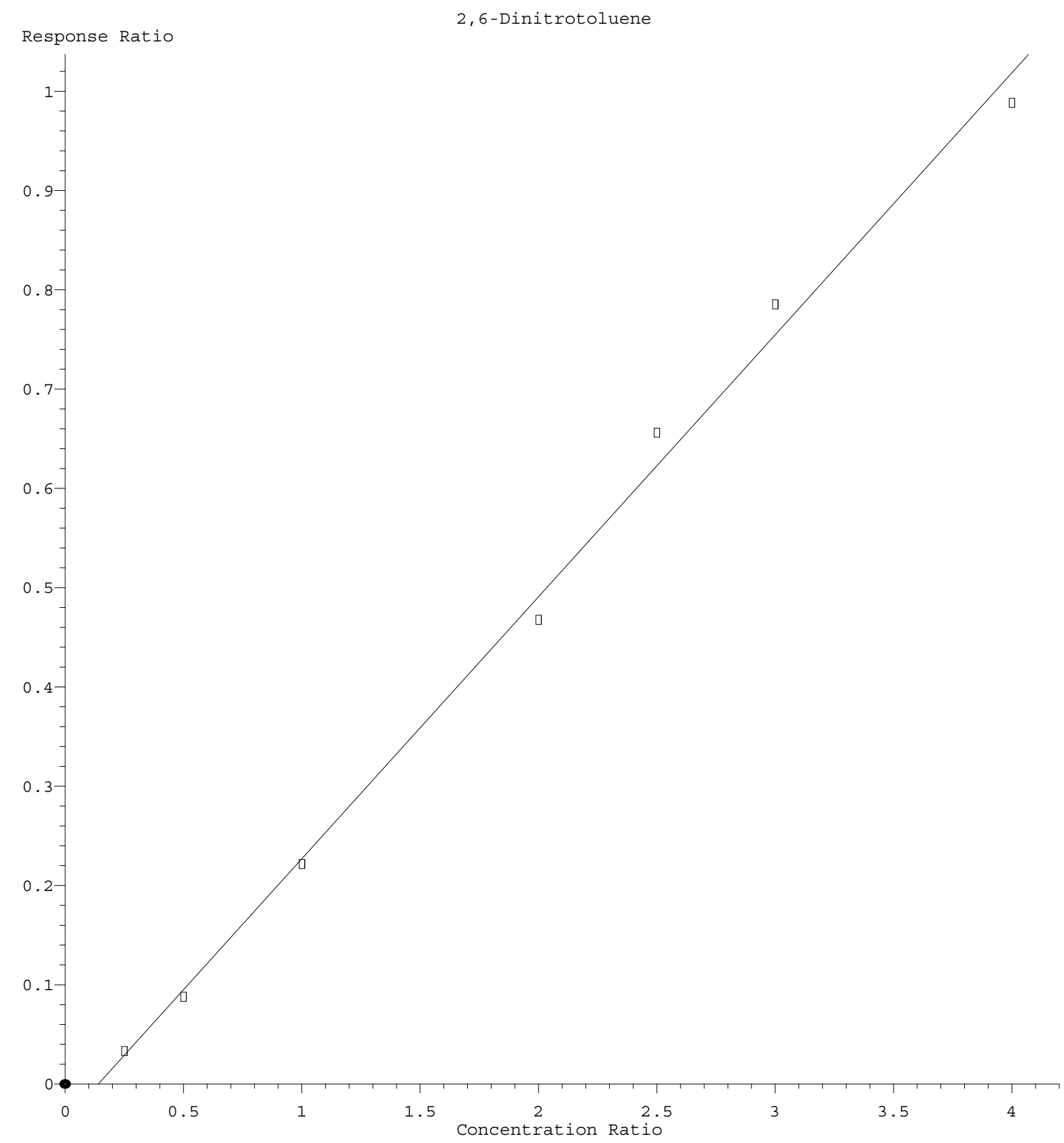
Response = 3.746e-001 * Amt - 5.948e-002
Coef of Det (r^2) = 0.996906 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025



R = 1.009e-002 A*A + 6.225e-002 A - 1.545e-002
Coef of Det (r^2) = 0.996906 Curve Fit: Quadratic w(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025

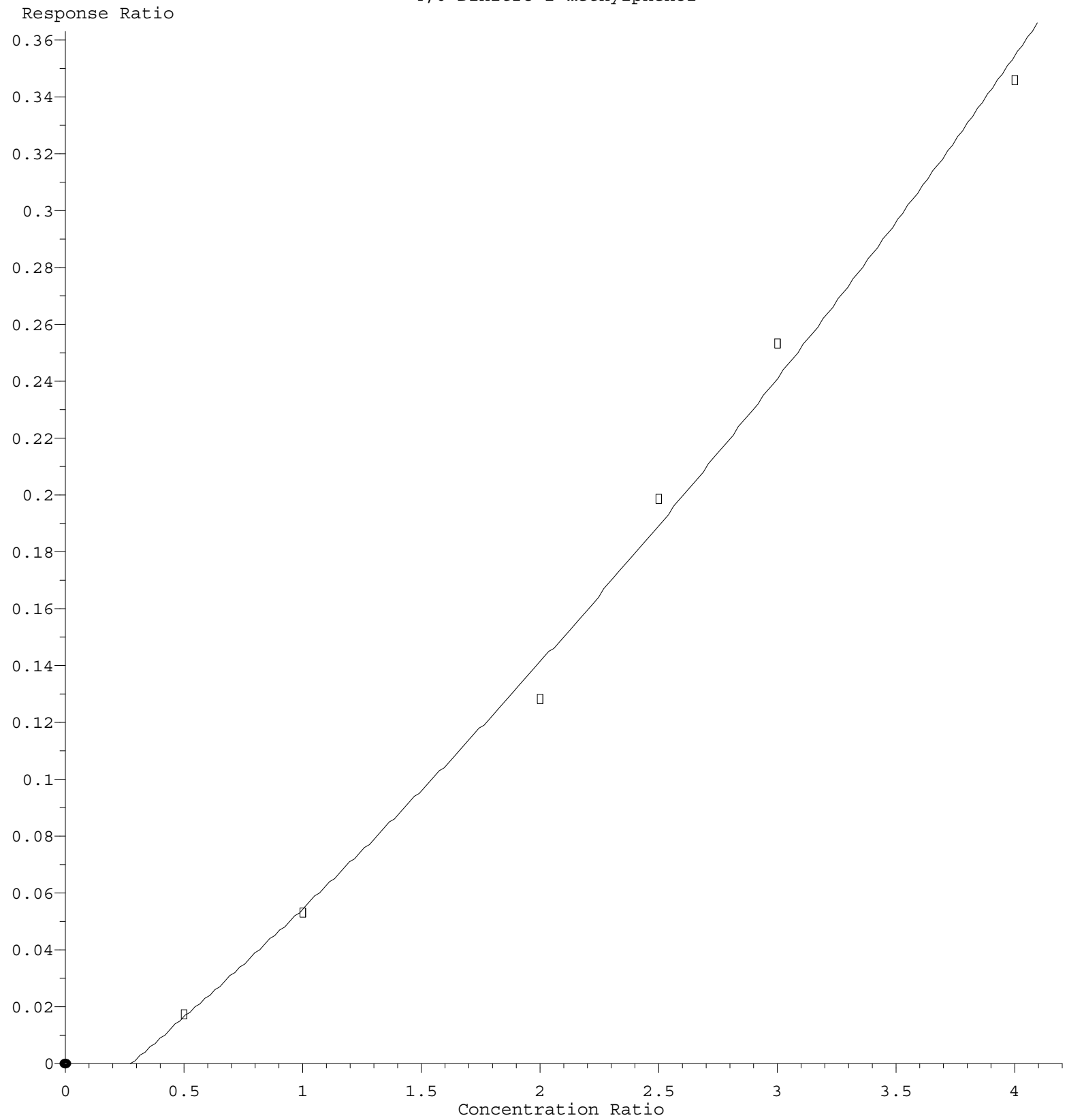


Response = 3.341e-001 * Amt - 5.679e-002
Coef of Det (r^2) = 0.997543 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025

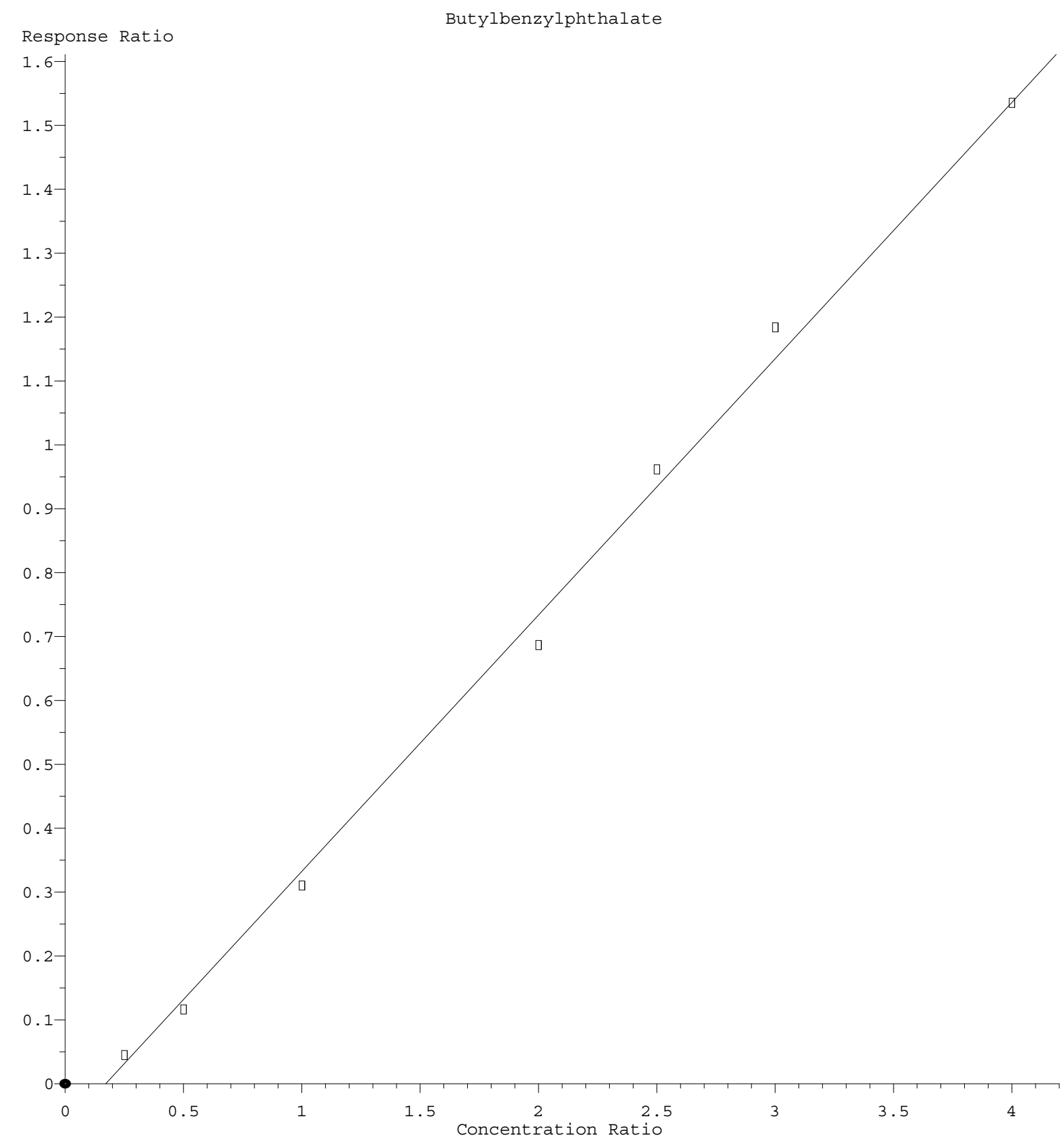


Response = 2.640e-001 * Amt - 3.691e-002
Coef of Det (r^2) = 0.997212 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025

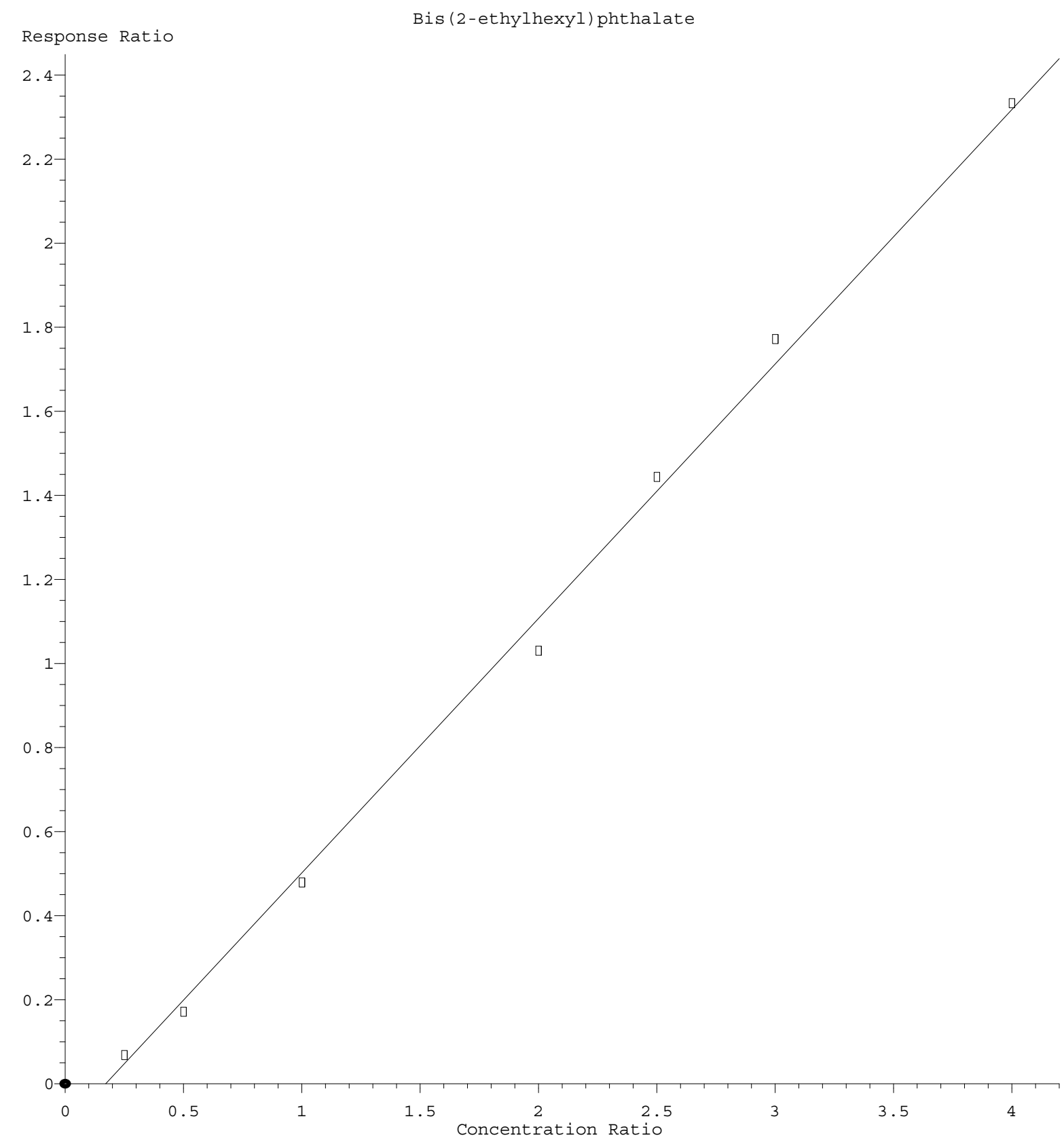
4,6-Dinitro-2-methylphenol



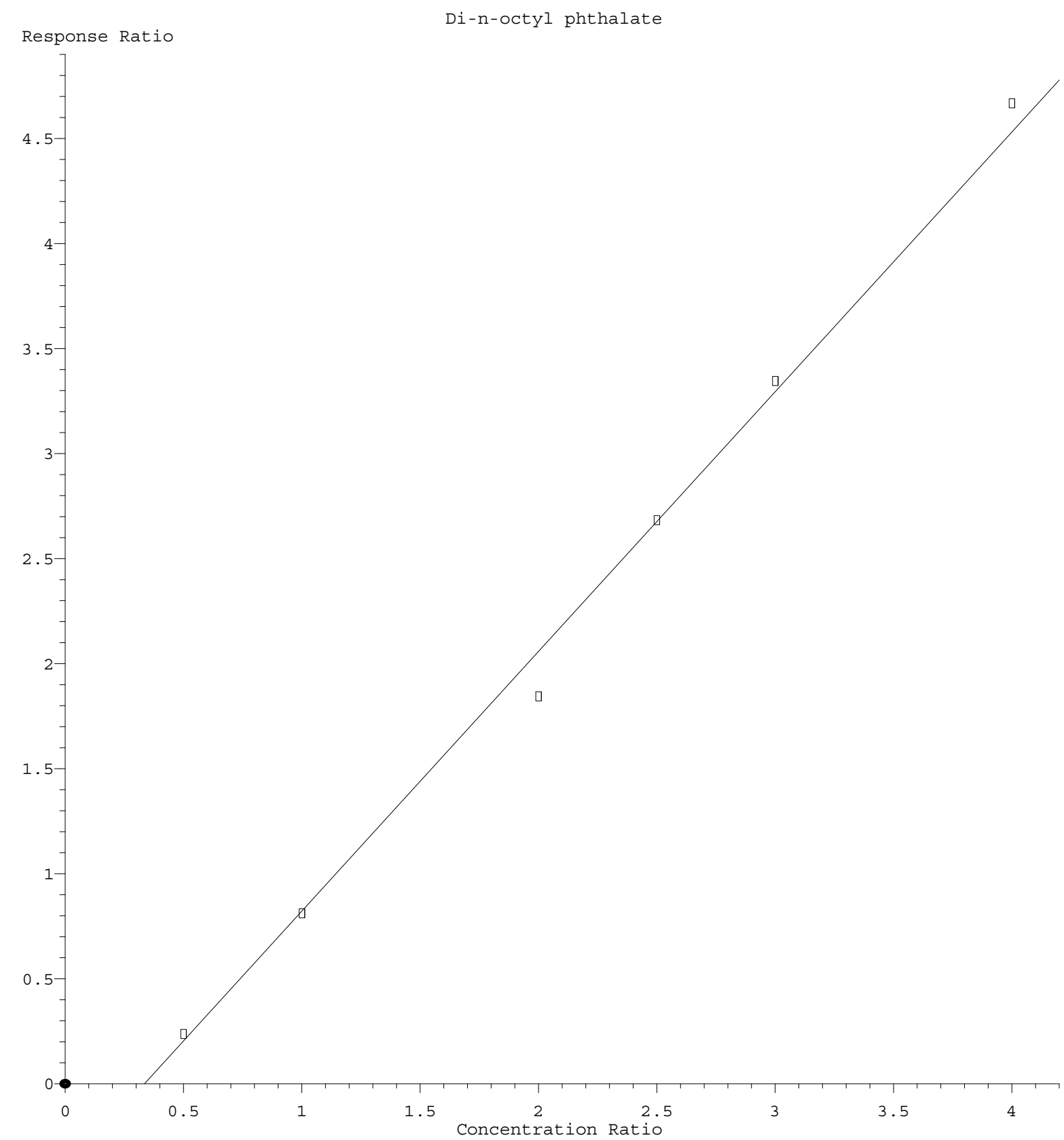
R = 6.691e-003 A*A + 6.646e-002 A - 1.863e-002
Coef of Det (r^2) = 0.995577 Curve Fit: Quadratic w(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025



Response = 4.013e-001 * Amt - 6.845e-002
Coef of Det (r^2) = 0.996788 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025



Response = 6.053e-001 * Amt - 1.032e-001
Coef of Det (r^2) = 0.996945 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025



Response = 1.236e+000 * Amt - 4.136e-001
Coef of Det (r^2) = 0.995967 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025