Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF082024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 21 01:25:05 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139078.D 5 =BF139079.D 10 =BF139080.D 20 =BF139081.D 40 =BF139082.D 50 =BF139083.D 60 =BF139084.D 80 =BF1390
85.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.591	0.579	0.579	0.553	0.528	0.550	0.523	0.558	4.73
3)		Pyridine		1.553	1.469	1.544	1.361	1.323	1.380	1.287	1.417	7.48
4)		n-Nitrosodimet...		1.227	0.804	0.822	0.794	0.769	0.801	0.775	0.856	19.24
5)	S	2-Fluorophenol		1.671	1.315	1.335	1.225	1.182	1.211	1.160	1.300	13.55
6)		Aniline		1.903	1.548	1.626	1.511	1.469	1.411	1.146	1.516	15.06
7)	S	Phenol-d6		2.058	1.698	1.737	1.612	1.545	1.590	1.518	1.680	10.97
8)		2-Chlorophenol		1.529	1.254	1.309	1.194	1.161	1.185	1.121	1.250	10.98
9)		Benzaldehyde			1.182	1.163	0.921	0.843	0.817		0.985	17.80
10)	C	Phenol		2.131	1.793	1.839	1.709	1.607	1.625	1.530	1.748	11.46
11)		bis(2-Chloroet...		1.913	1.323	1.374	1.261	1.209	1.295	1.463	1.406	16.93
12)		1,3-Dichlorobe...		1.853	1.533	1.576	1.434	1.373	1.417	1.338	1.503	11.68
13)	C	1,4-Dichlorobe...		1.803	1.560	1.572	1.440	1.381	1.425	1.340	1.503	10.51
14)		1,2-Dichlorobe...		1.512	1.459	1.483	1.341	1.277	1.309	1.235	1.374	7.97
15)		Benzyl Alcohol		1.608	1.313	1.366	1.280	1.225	1.279	1.222	1.328	10.05
16)		2,2'-oxybis(1-...		2.693	1.975	2.043	1.850	1.768	1.814	1.717	1.980	16.89
17)		2-Methylphenol		1.249	1.086	1.114	1.029	0.999	1.021	0.989	1.070	8.51
18)		Hexachloroethane		0.677	0.502	0.532	0.507	0.485	0.503	0.484	0.527	12.91
19)	P	n-Nitroso-di-n...	1.348	1.435	1.039	1.089	1.005	0.955	0.994	0.960	1.103	16.72
20)		3+4-Methylphenols		1.706	1.418	1.446	1.348	1.258	1.297	1.227	1.386	11.70
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.542	0.529	0.538	0.504	0.488	0.494	0.480	0.511	4.92
23)	S	Nitrobenzene-d5		0.274	0.288	0.336	0.360	0.365	0.391	0.389	0.343	13.56
24)		Nitrobenzene		0.328	0.335	0.382	0.395	0.395	0.423	0.413	0.382	9.66
25)		Isophorone		0.768	0.748	0.752	0.717	0.693	0.721	0.706	0.730	3.73
26)	C	2-Nitrophenol		0.064	0.075	0.100	0.118	0.126	0.140	0.144	0.110	28.47
27)		2,4-Dimethylph...		0.275	0.227	0.234	0.223	0.219	0.222	0.220	0.231	8.67
28)		bis(2-Chloroet...		0.489	0.438	0.440	0.410	0.393	0.416	0.397	0.426	7.79
29)	C	2,4-Dichloroph...		0.293	0.290	0.299	0.287	0.278	0.290	0.280	0.288	2.56
30)		1,2,4-Trichlor...		0.370	0.350	0.352	0.331	0.314	0.331	0.314	0.337	6.18
31)		Naphthalene		1.090	1.062	1.071	0.997	0.945	0.992	0.937	1.013	6.07
32)		Benzoic acid			0.100	0.133	0.167	0.183	0.206	0.214	0.167	26.37
33)		4-Chloroaniline		0.357	0.355	0.363	0.347	0.330	0.343	0.335	0.347	3.52
34)	C	Hexachlorobuta...		0.234	0.233	0.231	0.216	0.206	0.215	0.208	0.220	5.45
35)		Caprolactam		0.090	0.091	0.092	0.092	0.089	0.094	0.091	0.091	1.79
36)	C	4-Chloro-3-met...		0.333	0.314	0.329	0.319	0.304	0.321	0.313	0.319	3.11
37)		2-Methylnaphth...		0.758	0.678	0.678	0.629	0.598	0.619	0.590	0.650	9.09
38)		1-Methylnaphth...		0.677	0.662	0.666	0.613	0.585	0.606	0.583	0.627	6.37

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.904	0.595	0.595	0.560	0.531	0.551	0.527	0.609	21.85
41)	P	Hexachlorocycl...	0.202	0.192	0.218	0.214	0.211	0.223	0.214	0.210	4.94
42)	S	2,4,6-Tribromo...	0.132	0.174	0.191	0.190	0.187	0.199	0.195	0.181	12.59
43)	C	2,4,6-Trichlor...	0.408	0.364	0.378	0.356	0.360	0.370	0.350	0.370	5.17
44)		2,4,5-Trichlor...	0.401	0.359	0.384	0.386	0.363	0.383	0.379	0.379	3.72
45)	S	2-Fluorobiphenyl	1.526	1.341	1.326	1.207	1.147	1.159	1.117	1.261	11.60
46)		1,1'-Biphenyl	1.333	1.479	1.479	1.374	1.301	1.338	1.286	1.370	5.80
47)		2-Chloronaphth...	1.208	1.165	1.171	1.087	1.047	1.077	1.038	1.113	6.04
48)		2-Nitroaniline	0.160	0.170	0.235	0.285	0.304	0.335	0.345	0.262	28.84
49)		Acenaphthylene	1.656	1.666	1.690	1.587	1.523	1.551	1.491	1.595	4.84
50)		Dimethylphthalate	1.239	1.281	1.295	1.236	1.181	1.228	1.184	1.235	3.50
51)		2,6-Dinitrotol...	0.093	0.147	0.202	0.236	0.243	0.260	0.259	0.206	30.85
52)	C	Acenaphthene	1.181	1.076	1.072	1.027	0.985	1.032	1.001	1.053	6.20
53)		3-Nitroaniline	0.123	0.151	0.211	0.241	0.243	0.259	0.263	0.213	25.87
54)	P	2,4-Dinitrophenol		0.036	0.049	0.072	0.080	0.097	0.107	0.074	36.99
55)		Dibenzofuran	1.611	1.620	1.623	1.518	1.441	1.478	1.418	1.530	5.76
56)	P	4-Nitrophenol		0.131	0.169	0.195	0.199	0.216	0.211	0.187	17.11
57)		2,4-Dinitrotol...	0.109	0.165	0.229	0.289	0.297	0.328	0.331	0.250	34.32
58)		Fluorene	1.395	1.280	1.273	1.195	1.142	1.158	1.116	1.223	8.08
59)		2,3,4,6-Tetrac...	0.259	0.297	0.325	0.313	0.306	0.323	0.309	0.305	7.28
60)		Diethylphthalate	1.275	1.237	1.267	1.222	1.175	1.217	1.171	1.223	3.32
61)		4-Chlorophenyl...	0.703	0.642	0.636	0.589	0.573	0.577	0.554	0.611	8.55
62)		4-Nitroaniline	0.139	0.164	0.213	0.244	0.248	0.266	0.261	0.219	22.73
63)		Azobenzene	1.521	1.378	1.395	1.334	1.296	1.322	1.271	1.360	6.11
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.031	0.046	0.064	0.071	0.083	0.087	0.064	33.81
66)	c	n-Nitrosodiphe...	0.707	0.606	0.613	0.571	0.544	0.561	0.540	0.592	9.84
67)		4-Bromophenyl-...	0.228	0.217	0.226	0.207	0.199	0.207	0.200	0.212	5.53
68)		Hexachlorobenzene	0.255	0.229	0.231	0.220	0.215	0.226	0.217	0.227	5.91
69)		Atrazine	0.241	0.198	0.197	0.147	0.164	0.167	0.151	0.181	18.39
70)	C	Pentachlorophenol	0.135	0.131	0.147	0.149	0.148	0.156	0.151	0.145	6.18
71)		Phenanthrene	1.228	1.053	1.066	0.968	0.938	0.954	0.910	1.017	10.82
72)		Anthracene	1.172	1.037	1.035	0.953	0.924	0.941	0.898	0.994	9.50
73)		Carbazole	1.112	0.959	0.976	0.892	0.865	0.872	0.823	0.928	10.47
74)		Di-n-butylphth...	1.373	1.077	1.098	1.019	0.987	1.014	0.967	1.076	12.88
75)	C	Fluoranthene	1.275	1.159	1.152	1.050	1.001	1.011	0.948	1.085	10.56
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.410	0.361	0.368	0.505	0.439	0.385	0.423	0.413	11.99
78)		Pyrene	1.566	1.495	1.606	1.688	1.704	1.839	1.784	1.669	7.28
79)	S	Terphenyl-d14	1.099	1.121	1.144	1.212	1.243	1.325	1.294	1.205	7.24
80)		Butylbenzylpht...	0.492	0.497	0.564	0.610	0.604	0.644	0.631	0.577	10.74
81)		Benzo(a)anthra...	1.478	1.343	1.346	1.301	1.232	1.280	1.223	1.315	6.59
82)		3,3'-Dichlorob...	0.429	0.419	0.407	0.349	0.329	0.328	0.312	0.367	13.39
83)		Chrysene	1.229	1.245	1.288	1.153	1.111	1.161	1.154	1.192	5.28
84)		Bis(2-ethylhex...	0.749	0.719	0.757	0.779	0.764	0.804	0.787	0.765	3.64
85)	c	Di-n-octyl pht...	1.238	1.050	1.094	1.030	0.998	1.047	1.065	1.074	7.25

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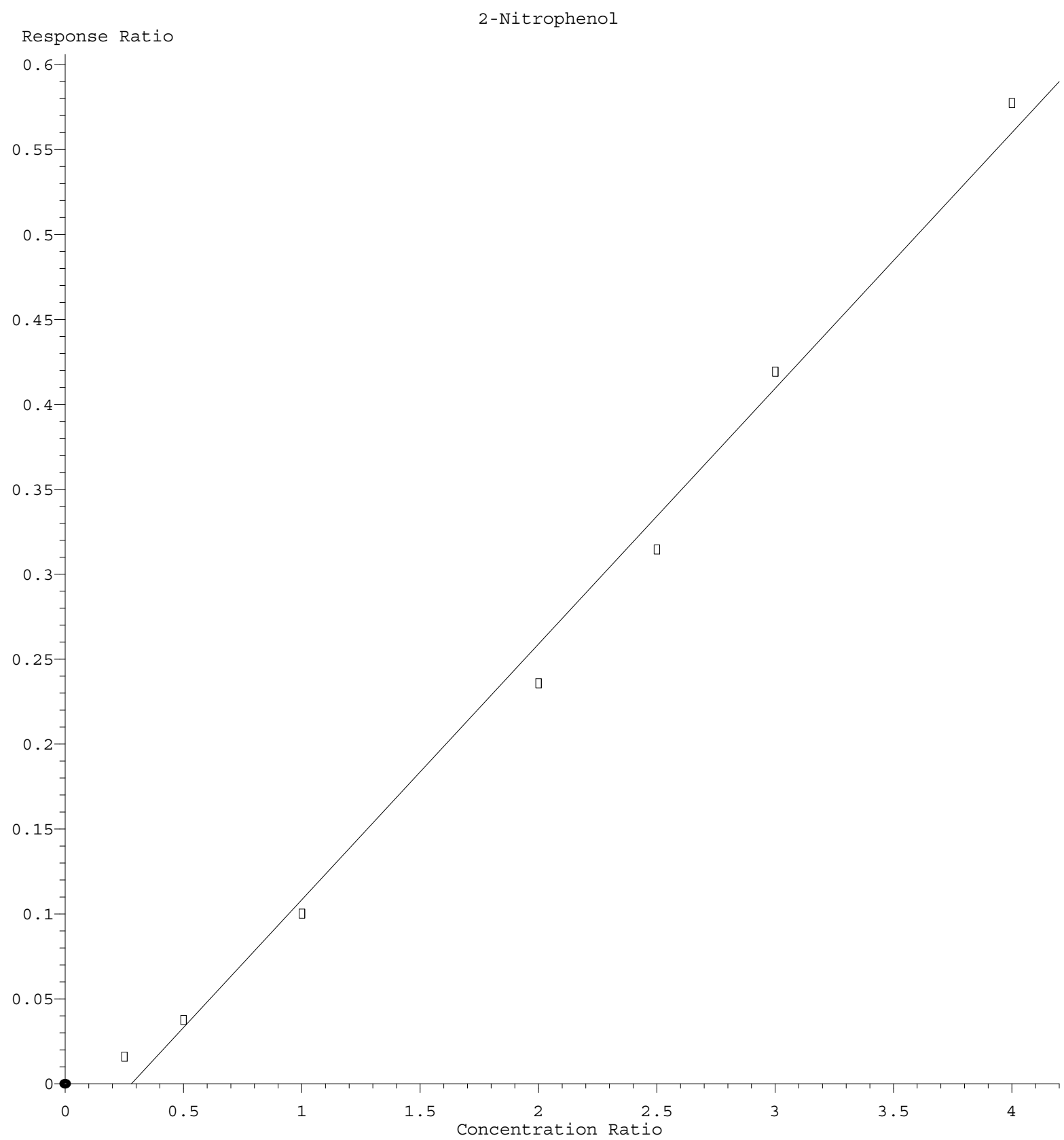
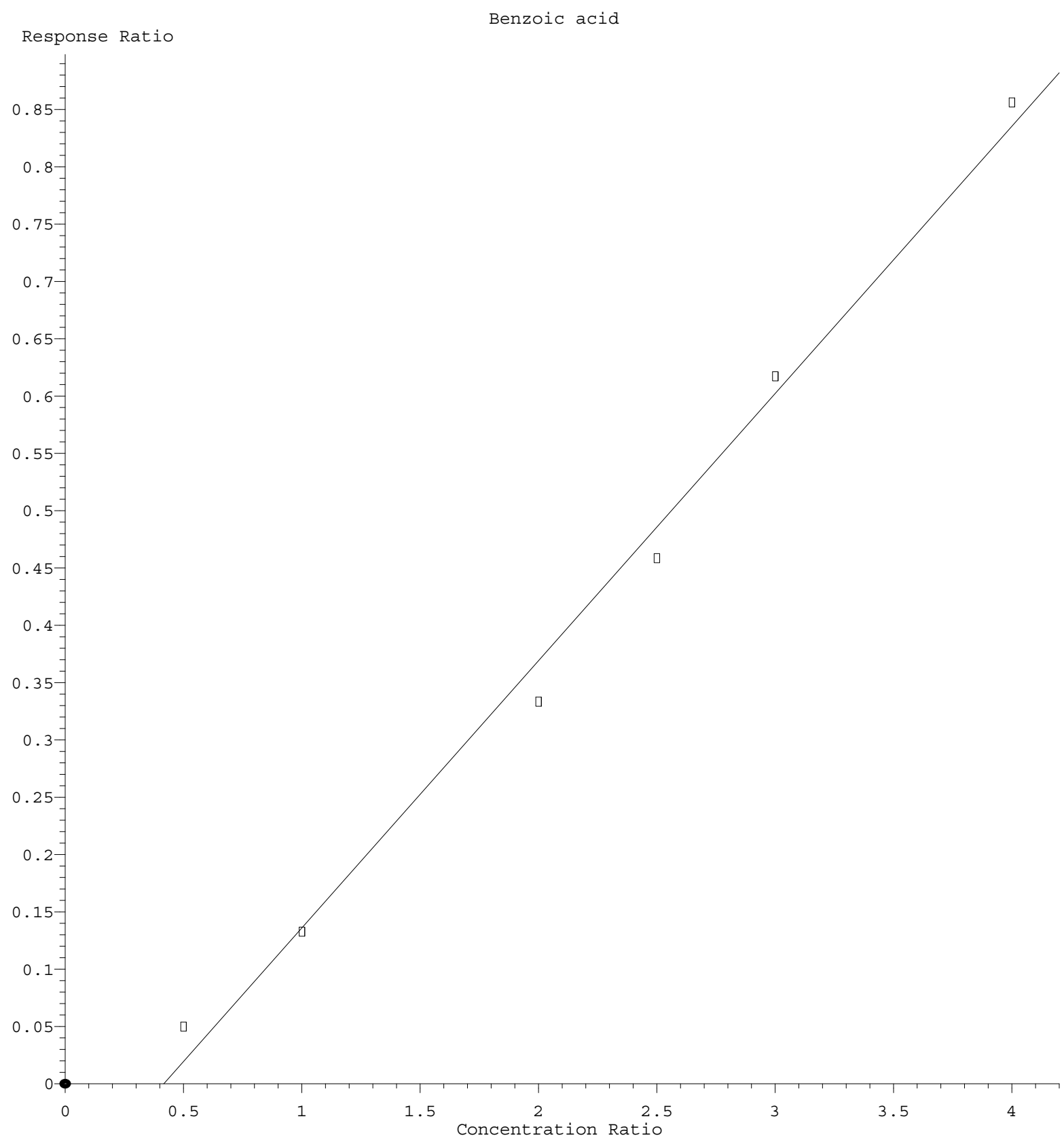
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.909	0.873	1.124	1.298	1.308	1.369	1.311	1.171	17.57
88)		Benzo(b)fluora...	1.474	1.391	1.390	1.257	1.153	1.300	1.163	1.304	9.34
89)		Benzo(k)fluora...	1.051	1.220	1.288	1.076	1.019	0.935	1.014	1.086	11.44
90)	C	Benzo(a)pyrene	1.052	1.068	1.087	1.014	0.981	1.019	0.990	1.030	3.85
91)		Dibenzo(a,h)an...	0.745	0.724	0.922	1.078	1.071	1.115	1.071	0.961	17.30
92)		Benzo(g,h,i)pe...	0.641	0.713	0.968	1.106	1.102	1.150	1.101	0.969	21.47

(#) = Out of Range



Response = 1.506e-001 * Amt - 4.211e-002
Coef of Det (r^2) = 0.993041 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
Calibration Table Last Updated: Wed Aug 21 01:25:05 2024



Response = 2.332e-001 * Amt - 9.733e-002
Coef of Det (r^2) = 0.992102 Curve Fit: Linear
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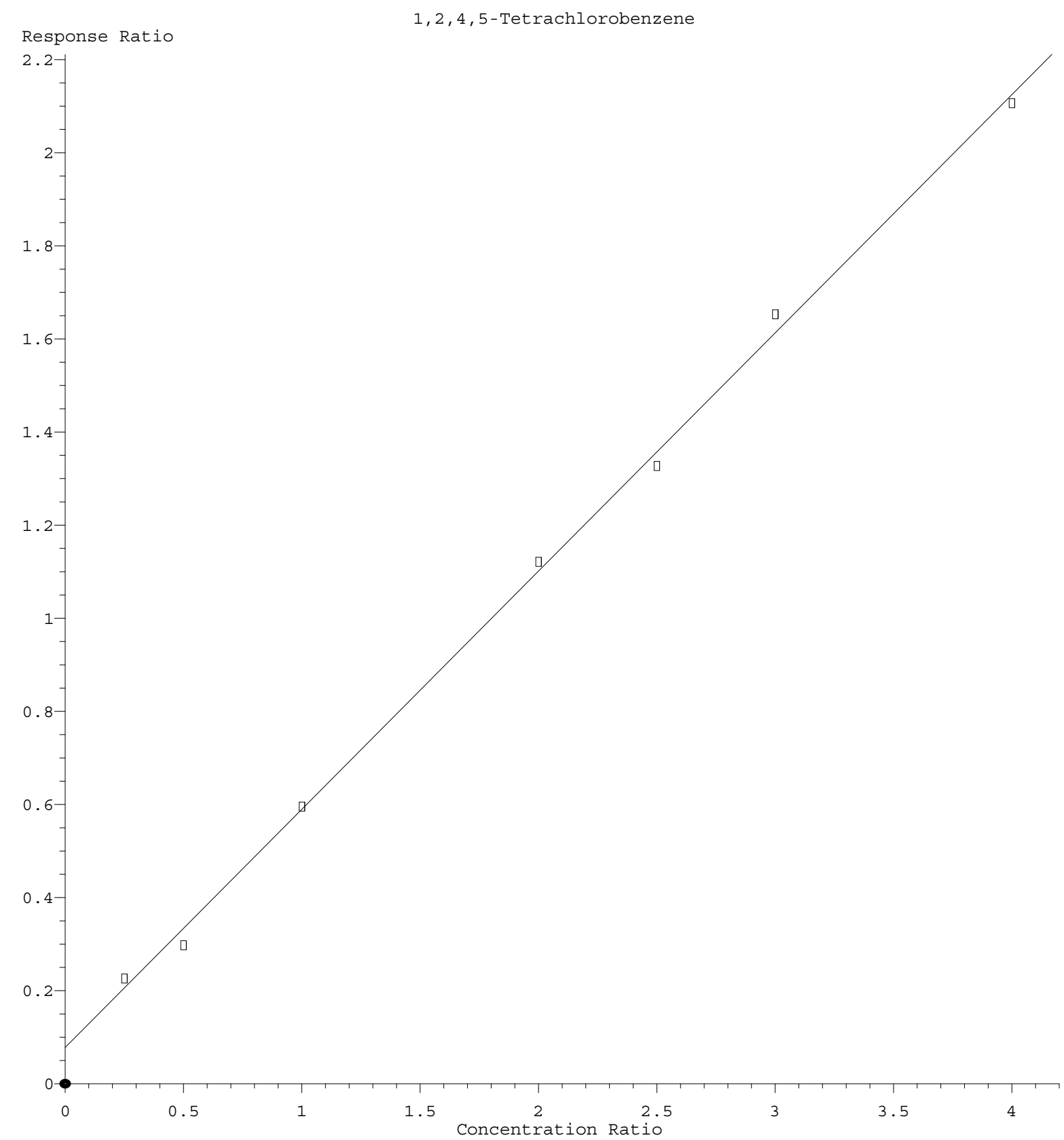
Calibration Table Last Updated: Wed Aug 21 01:25:05 2024



Response = 5.118e-001 * Amt + 7.785e-002
Coef of Det (r^2) = 0.998352 Curve Fit: Linear
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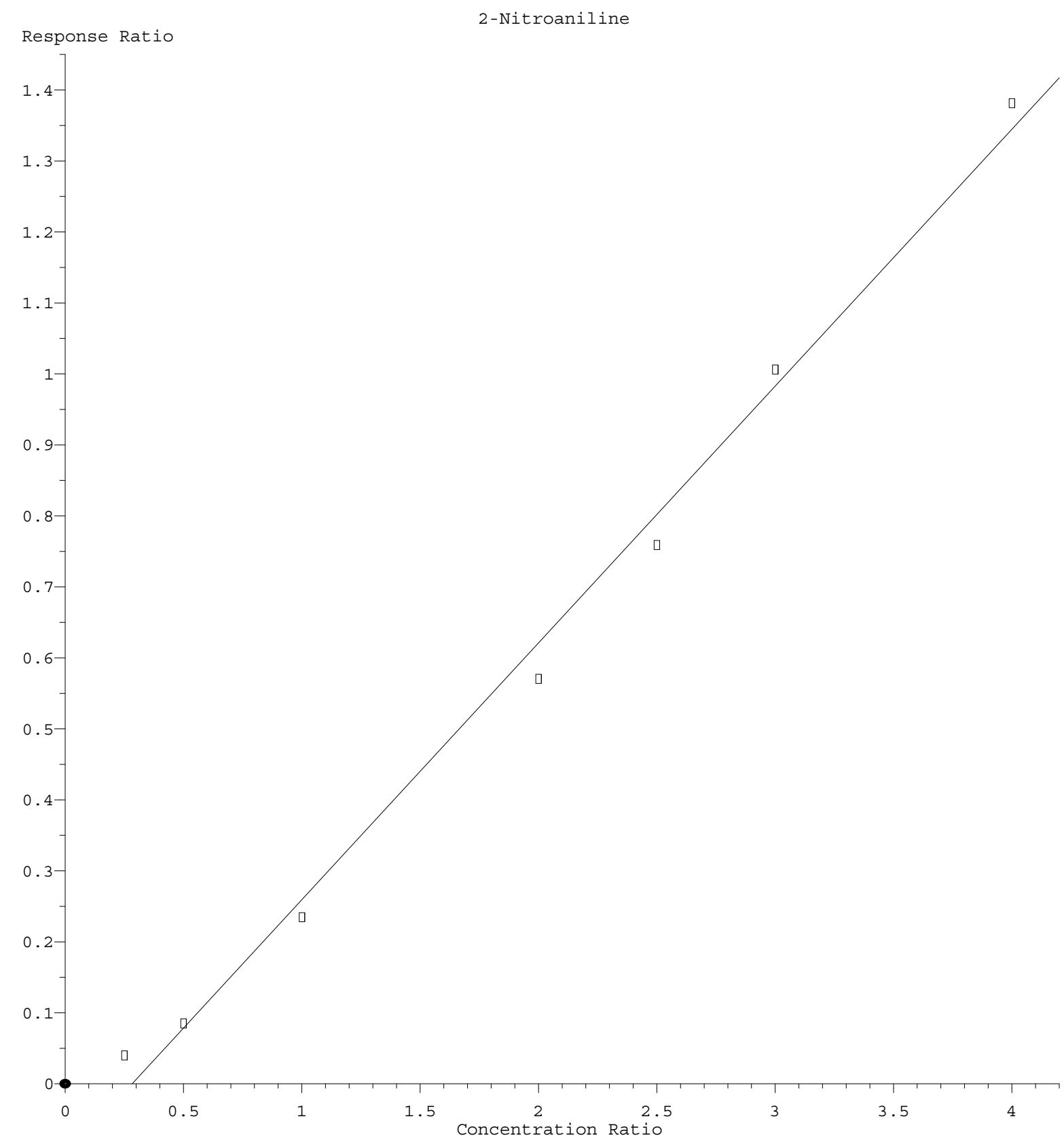
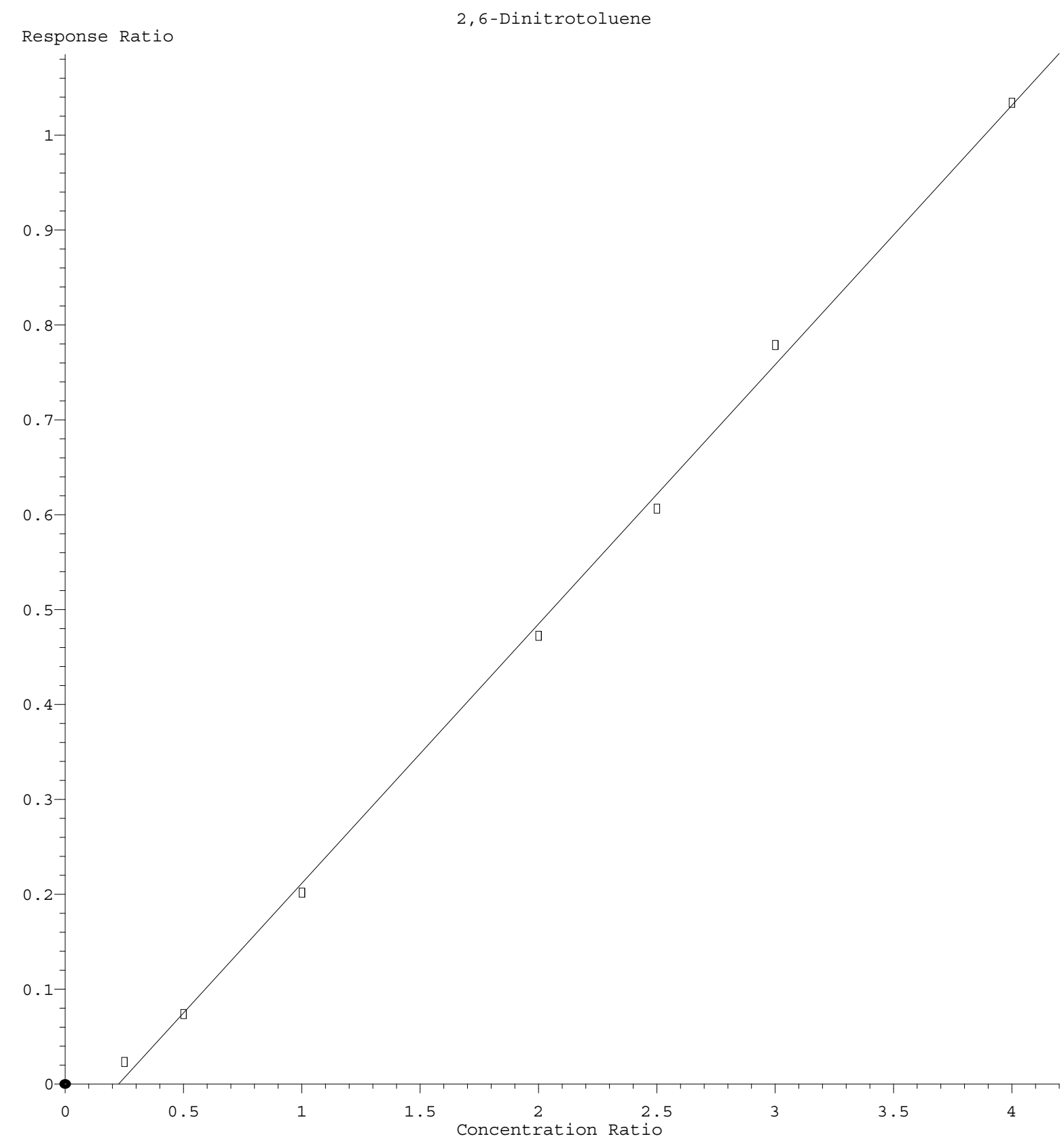
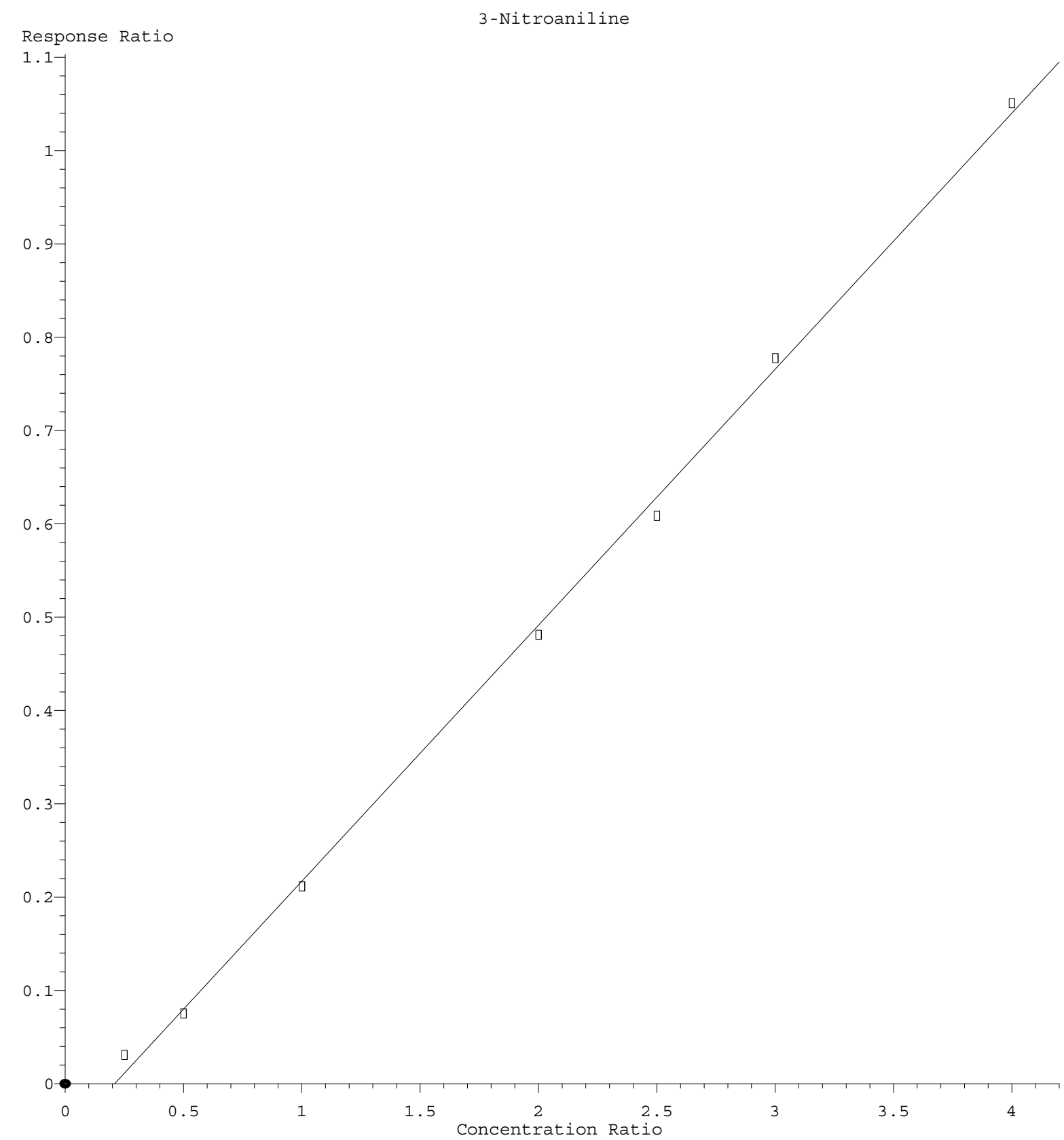
Calibration Table Last Updated: Wed Aug 21 01:25:05 2024



Response = 3.617e-001 * Amt - 1.023e-001
Coef of Det (r^2) = 0.993609 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
Calibration Table Last Updated: Wed Aug 21 01:25:05 2024

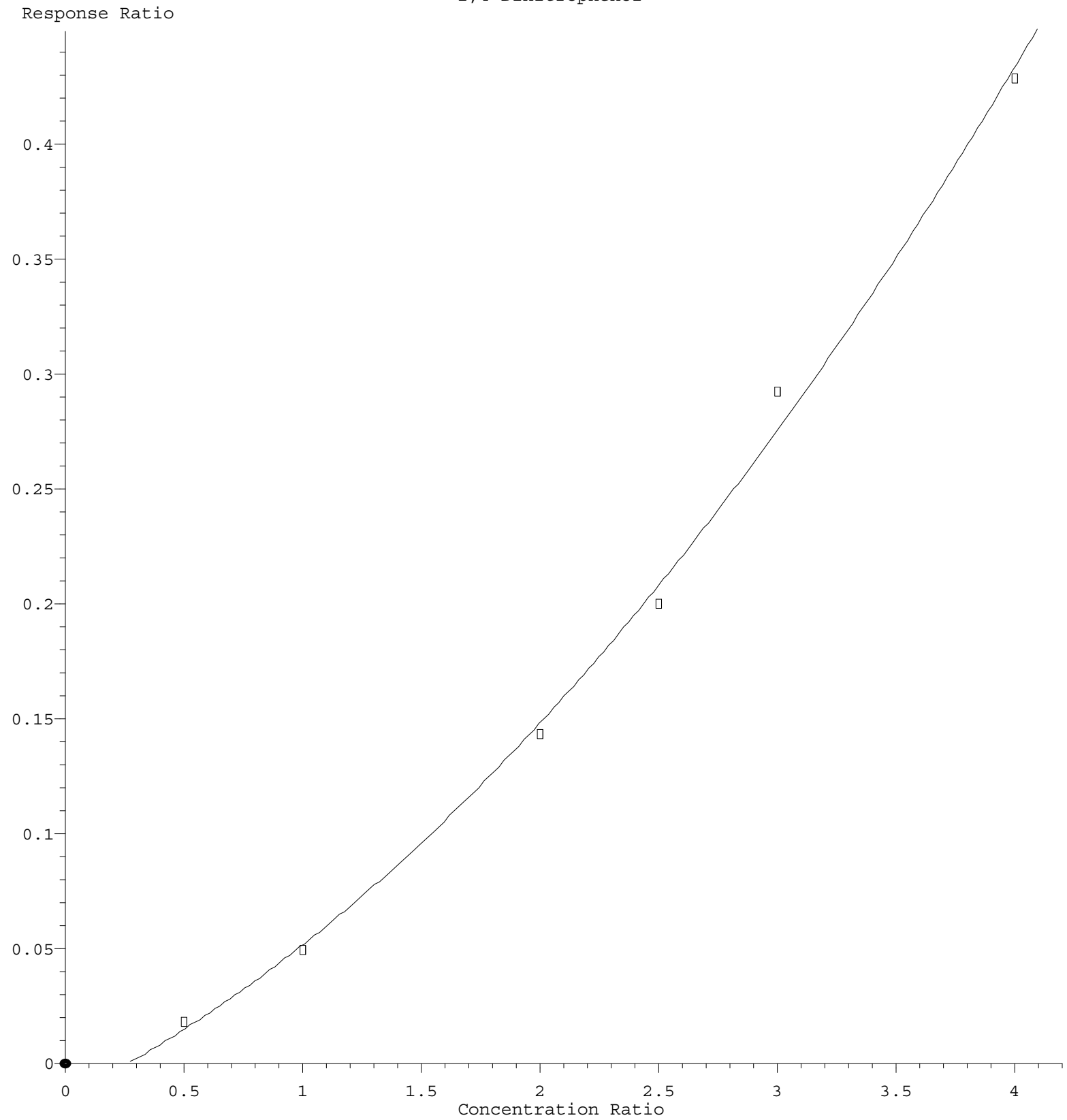


Response = 2.734e-001 * Amt - 6.175e-002
Coef of Det (r^2) = 0.998608 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
Calibration Table Last Updated: Wed Aug 21 01:25:05 2024

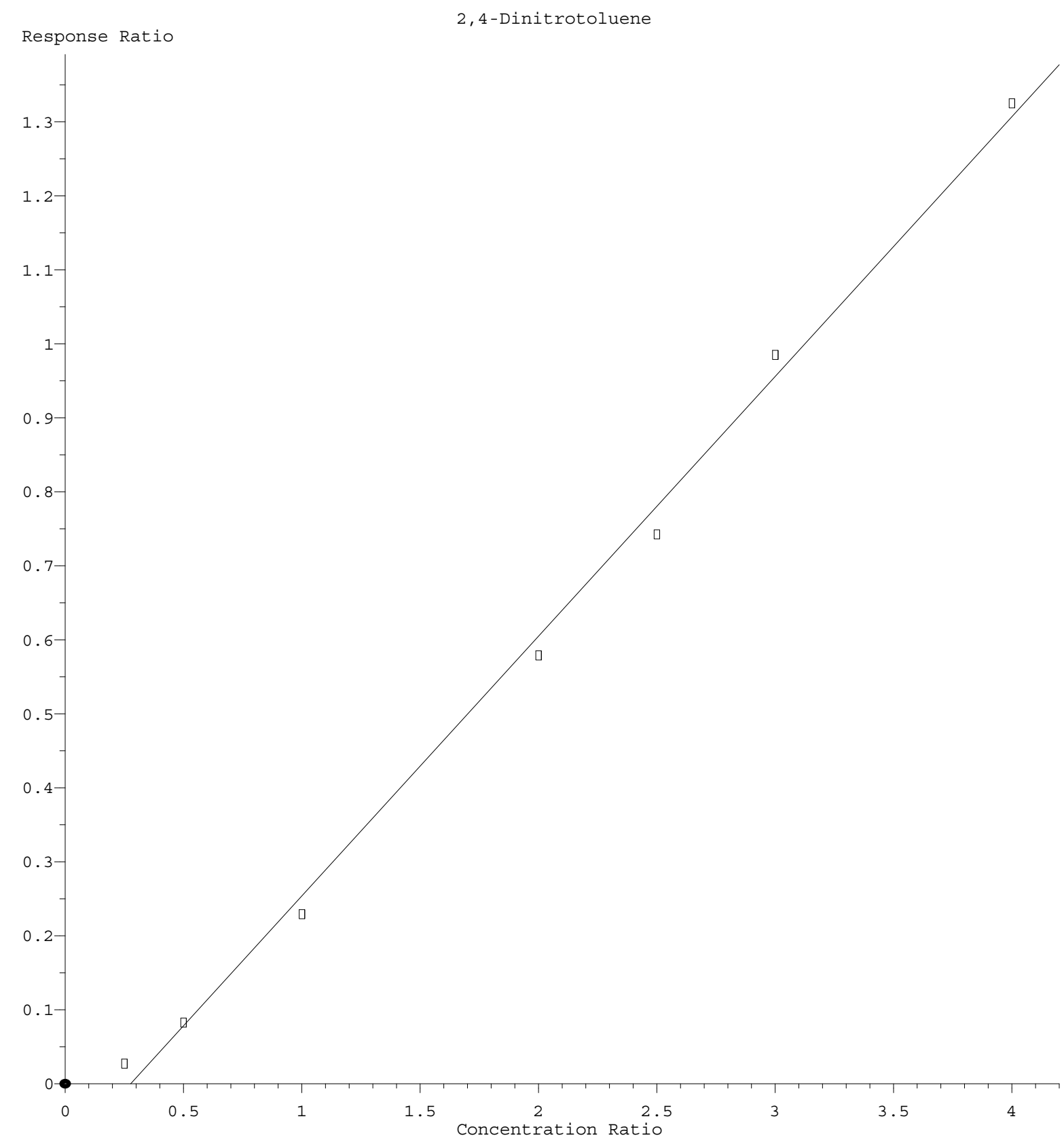


Response = 2.745e-001 * Amt - 5.729e-002
Coef of Det (r^2) = 0.998630 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
Calibration Table Last Updated: Wed Aug 21 01:25:05 2024

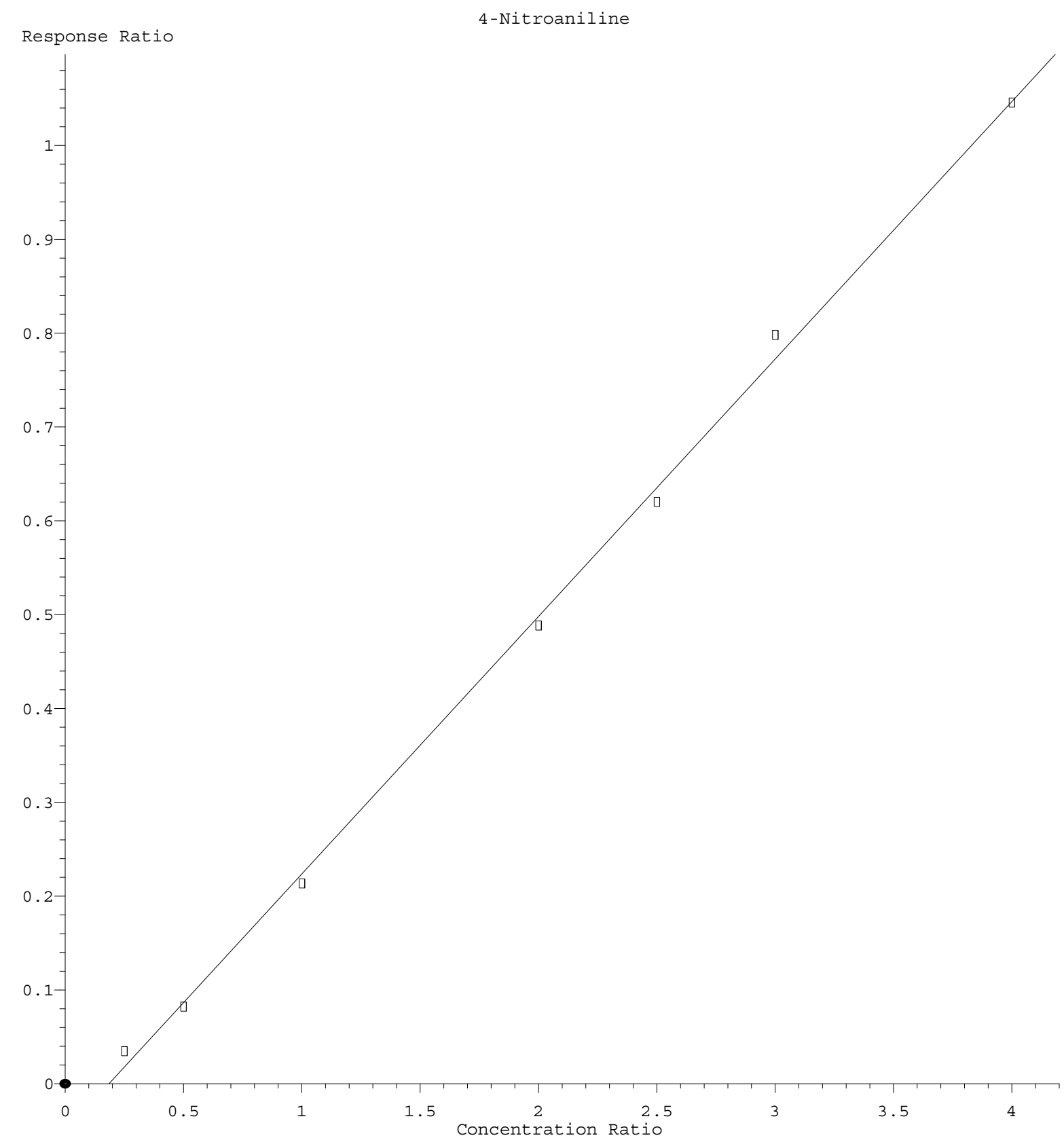
2,4-Dinitrophenol



R = 1.536e-002 A*A + 5.053e-002 A - 1.426e-002
Coef of Det (r^2) = 0.996553 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
Calibration Table Last Updated: Wed Aug 21 01:25:05 2024



Response = 3.510e-001 * Amt - 9.733e-002
Coef of Det (r^2) = 0.996297 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
Calibration Table Last Updated: Wed Aug 21 01:25:05 2024



Response = 2.747e-001 * Amt - 5.095e-002
Coef of Det (r^2) = 0.998404 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
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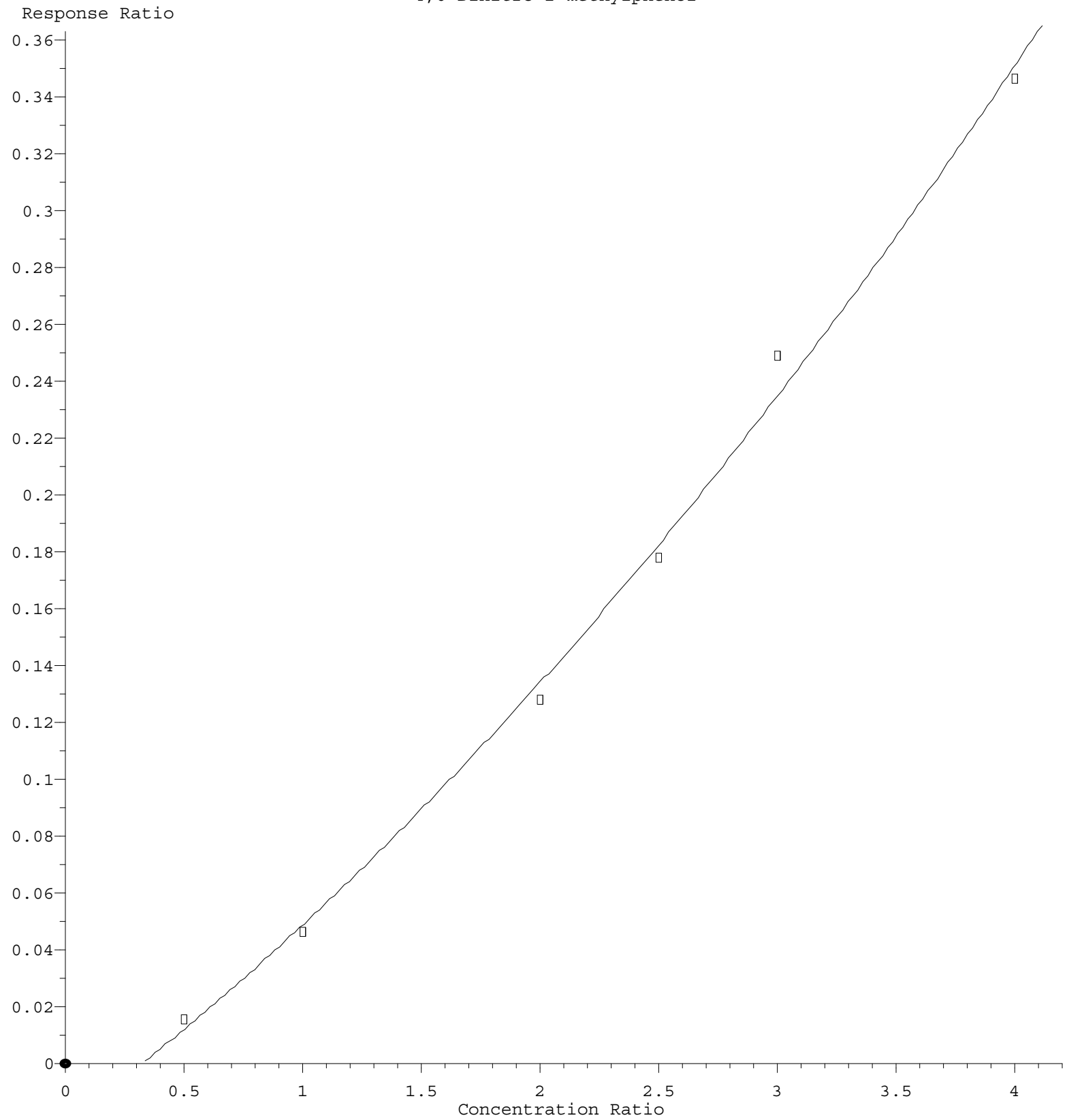
4,6-Dinitro-2-methylphenol



R = 7.756e-003 A*A + 6.194e-002 A - 2.087e-002
Coef of Det (r^2) = 0.996154 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
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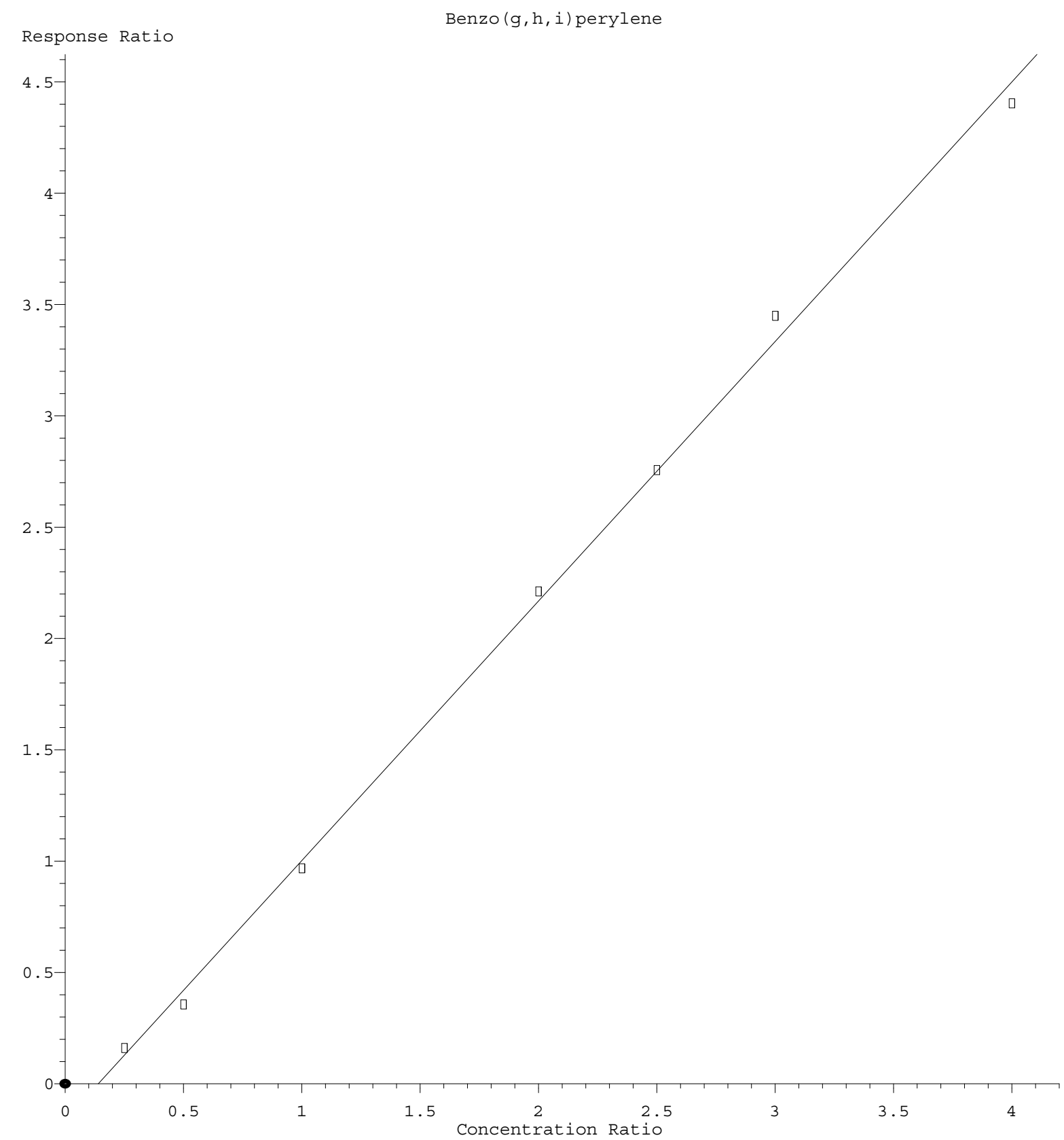

Response = 1.166e+000 * Amt - 1.629e-001
Coef of Det (r^2) = 0.998035 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082024.M
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