Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP052024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 21 01:48:44 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BP020425.D 5 =BP020426.D 10 =BP020427.D 20 =BP020428.D 40 =BP020429.D 50 =BP020430.D 60 =BP020431.D 80 =BP0204
32.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.549	0.478	0.485	0.460	0.455	0.425	0.427	0.468	8.99
3)		Pyridine		1.156	1.116	1.233	1.146	1.140	1.207	1.259	1.180	4.53
4)		n-Nitrosodimet...		0.576	0.563	0.607	0.556	0.561	0.563	0.589	0.574	3.20
5)	S	2-Fluorophenol		1.060	1.009	1.095	1.096	1.095	1.101	1.123	1.083	3.46
6)		Aniline		1.390	1.385	1.535	1.363	1.382	1.498	1.565	1.445	5.83
7)	S	Phenol-d6		1.405	1.435	1.581	1.446	1.482	1.580	1.646	1.511	6.05
8)		2-Chlorophenol		1.190	1.166	1.252	1.163	1.176	1.223	1.259	1.204	3.35
9)		Benzaldehyde		1.074	1.008	1.023	0.819	0.752	0.685		0.893	18.18
10)	C	Phenol		1.440	1.471	1.577	1.459	1.483	1.600	1.649	1.526	5.35
11)		bis(2-Chloroet...		1.153	1.092	1.269	1.183	1.183	1.206	1.240	1.189	4.86
12)		1,3-Dichlorobe...		1.531	1.420	1.508	1.414	1.410	1.401	1.427	1.444	3.63
13)	C	1,4-Dichlorobe...		1.594	1.469	1.527	1.434	1.435	1.455	1.464	1.483	3.92
14)		1,2-Dichlorobe...		1.461	1.419	1.478	1.383	1.372	1.417	1.425	1.422	2.67
15)		Benzyl Alcohol		1.099	1.155	1.318	1.201	1.221	1.340	1.391	1.247	8.51
16)		2,2'-oxybis(1-...		1.351	1.329	1.449	1.326	1.340	1.359	1.357	1.359	3.09
17)		2-Methylphenol		0.879	1.011	1.084	0.979	0.991	1.064	1.127	1.019	8.01
18)		Hexachloroethane		0.572	0.549	0.574	0.545	0.559	0.548	0.541	0.555	2.35
19)	P	n-Nitroso-di-n...	0.932	0.917	0.979	1.121	0.959	0.989	1.071	1.106	1.009	7.85
20)		3+4-Methylphenols		1.332	1.345	1.491	1.319	1.373	1.496	1.589	1.421	7.34
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.480	0.497	0.525	0.486	0.502	0.522	0.515	0.504	3.46
23)	S	Nitrobenzene-d5		0.393	0.412	0.428	0.409	0.420	0.426	0.422	0.416	2.90
24)		Nitrobenzene		0.392	0.408	0.429	0.410	0.411	0.424	0.418	0.413	2.93
25)		Isophorone		0.583	0.628	0.737	0.686	0.687	0.723	0.734	0.683	8.50
26)	C	2-Nitrophenol		0.131	0.149	0.172	0.170	0.175	0.184	0.188	0.167	12.09
27)		2,4-Dimethylph...		0.186	0.178	0.211	0.197	0.200	0.210	0.211	0.199	6.56
28)		bis(2-Chloroet...		0.343	0.385	0.423	0.406	0.412	0.413	0.409	0.399	6.81
29)	C	2,4-Dichloroph...		0.250	0.267	0.302	0.300	0.298	0.315	0.320	0.293	8.74
30)		1,2,4-Trichlor...		0.382	0.370	0.377	0.367	0.368	0.374	0.364	0.372	1.67
31)		Naphthalene		1.047	0.984	1.026	0.985	0.994	1.022	1.019	1.011	2.36
32)		Benzoic acid			0.131	0.202	0.203	0.210	0.239	0.255	0.207	20.63
33)		4-Chloroaniline		0.277	0.309	0.365	0.349	0.343	0.366	0.379	0.341	10.57
34)	C	Hexachlorobuta...		0.253	0.255	0.262	0.266	0.262	0.258	0.245	0.257	2.61
35)		Caprolactam		0.078	0.066	0.092	0.089	0.086	0.085	0.098	0.085	12.30
36)	C	4-Chloro-3-met...		0.308	0.302	0.374	0.336	0.335	0.355	0.376	0.341	8.60
37)		2-Methylnaphth...		0.659	0.659	0.736	0.671	0.682	0.704	0.723	0.691	4.48
38)		1-Methylnaphth...		0.673	0.643	0.721	0.652	0.671	0.694	0.709	0.680	4.23

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.650	0.647	0.619	0.624	0.649	0.679	0.659	0.647	3.15
41)	P	Hexachlorocycl...		0.128	0.165	0.197	0.216	0.227	0.215	0.191	19.82
42)	S	2,4,6-Tribromo...	0.248	0.241	0.283	0.272	0.267	0.242	0.265	0.260	6.28
43)	C	2,4,6-Trichlor...	0.340	0.364	0.394	0.388	0.400	0.418	0.419	0.389	7.36
44)		2,4,5-Trichlor...	0.385	0.378	0.433	0.436	0.436	0.462	0.465	0.428	7.97
45)	S	2-Fluorobiphenyl	1.389	1.418	1.412	1.363	1.423	1.488	1.436	1.418	2.75
46)		1,1'-Biphenyl	1.447	1.381	1.382	1.332	1.366	1.440	1.422	1.396	3.02
47)		2-Chloronaphth...	1.126	1.113	1.111	1.067	1.100	1.161	1.143	1.117	2.73
48)		2-Nitroaniline	0.280	0.289	0.349	0.343	0.340	0.349	0.361	0.330	9.62
49)		Acenaphthylene	1.606	1.564	1.611	1.554	1.560	1.623	1.661	1.597	2.47
50)		Dimethylphthalate	1.375	1.299	1.445	1.339	1.354	1.326	1.342	1.354	3.41
51)		2,6-Dinitrotol...	0.297	0.287	0.329	0.313	0.310	0.307	0.318	0.309	4.55
52)	C	Acenaphthene	1.014	1.002	1.015	0.957	0.987	1.015	1.024	1.002	2.29
53)		3-Nitroaniline	0.238	0.221	0.284	0.280	0.278	0.265	0.284	0.264	9.48
54)	P	2,4-Dinitrophenol		0.106	0.166	0.182	0.183	0.172	0.188	0.166	18.44
55)		Dibenzofuran	1.697	1.607	1.683	1.627	1.593	1.625	1.644	1.640	2.33
56)	P	4-Nitrophenol		0.053	0.184	0.208	0.204	0.183	0.208	0.173	34.59
57)		2,4-Dinitrotol...	0.378	0.355	0.455	0.443	0.418	0.394	0.421	0.409	8.68
58)		Fluorene	1.366	1.247	1.376	1.313	1.305	1.293	1.349	1.321	3.45
59)		2,3,4,6-Tetrac...	0.378	0.338	0.404	0.380	0.377	0.370	0.370	0.374	5.24
60)		Diethylphthalate	1.349	1.244	1.467	1.427	1.375	1.246	1.305	1.345	6.37
61)		4-Chlorophenyl...	0.726	0.704	0.757	0.731	0.727	0.712	0.739	0.728	2.38
62)		4-Nitroaniline	0.240	0.193	0.261	0.272	0.266	0.226	0.257	0.245	11.41
63)		Azobenzene	1.271	1.193	1.384	1.348	1.281	1.232	1.279	1.284	5.05
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.085	0.115	0.125	0.128	0.131	0.136	0.120	15.39
66)	c	n-Nitrosodiphe...	0.485	0.524	0.536	0.522	0.533	0.607	0.597	0.544	8.01
67)		4-Bromophenyl-...	0.192	0.215	0.218	0.214	0.226	0.248	0.242	0.222	8.43
68)		Hexachlorobenzene	0.243	0.257	0.258	0.254	0.260	0.285	0.281	0.263	5.67
69)		Atrazine	0.174	0.167	0.186	0.168	0.166	0.152	0.139	0.165	9.20
70)	C	Pentachlorophenol	0.127	0.134	0.155	0.159	0.164	0.163	0.161	0.152	9.81
71)		Phenanthrene	0.964	0.948	0.961	0.942	0.945	0.986	0.974	0.960	1.69
72)		Anthracene	0.900	0.905	0.934	0.948	0.957	0.961	0.970	0.939	2.96
73)		Carbazole	0.869	0.811	0.887	0.883	0.896	0.850	0.842	0.862	3.48
74)		Di-n-butylphth...	0.911	0.924	1.106	1.153	1.139	1.014	0.976	1.032	9.80
75)	C	Fluoranthene	1.330	1.096	1.200	1.223	1.203	1.120	1.088	1.180	7.28
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.216	0.216	0.157	0.282	0.259	0.266	0.256	0.236	18.09
78)		Pyrene	1.152	1.189	1.486	1.234	1.204	1.294	1.346	1.272	9.03
79)	S	Terphenyl-d14	0.991	1.036	1.339	1.111	1.075	1.122	1.154	1.118	9.97
80)		Butylbenzylpht...	0.390	0.405	0.546	0.510	0.506	0.496	0.501	0.479	12.15
81)		Benzo(a)anthra...	1.244	1.207	1.279	1.225	1.199	1.273	1.321	1.250	3.52
82)		3,3'-Dichlorob...	0.384	0.387	0.408	0.437	0.421	0.442	0.434	0.416	5.73
83)		Chrysene	1.245	1.166	1.210	1.202	1.150	1.226	1.261	1.209	3.32
84)		Bis(2-ethylhex...	0.536	0.601	0.750	0.779	0.765	0.744	0.695	0.696	13.31
85)	c	Di-n-octyl pht...		0.991	1.017	1.274	1.270	1.286	1.258	1.183	11.74

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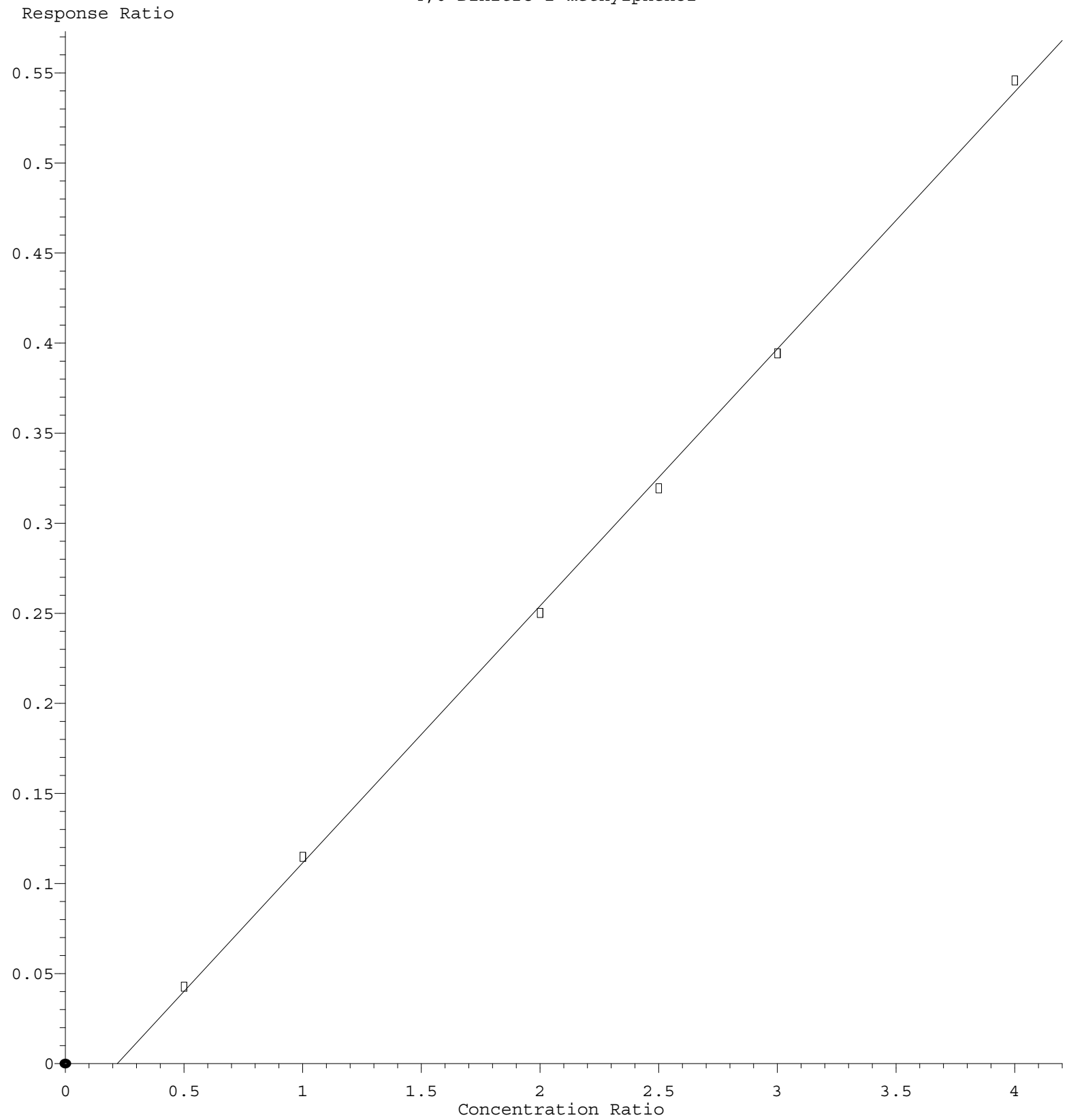
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.277	1.319	1.332	1.289	1.316	1.411	1.415	1.337	4.12
88)		Benzo(b)fluora...	1.090	1.077	1.200	1.112	1.157	1.211	1.183	1.147	4.73
89)		Benzo(k)fluora...	1.143	1.065	1.211	1.094	1.123	1.157	1.164	1.137	4.23
90)	C	Benzo(a)pyrene	0.948	0.949	1.023	0.974	1.021	1.076	1.072	1.009	5.34
91)		Dibenzo(a,h)an...	1.062	1.088	1.097	1.071	1.088	1.164	1.169	1.106	3.88
92)		Benzo(g,h,i)pe...	1.108	1.123	1.099	1.076	1.106	1.188	1.186	1.126	3.88

(#) = Out of Range

4,6-Dinitro-2-methylphenol



Response = 1.427e-001 * Amt - 3.124e-002
Coef of Det (r^2) = 0.999318 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP052024.M
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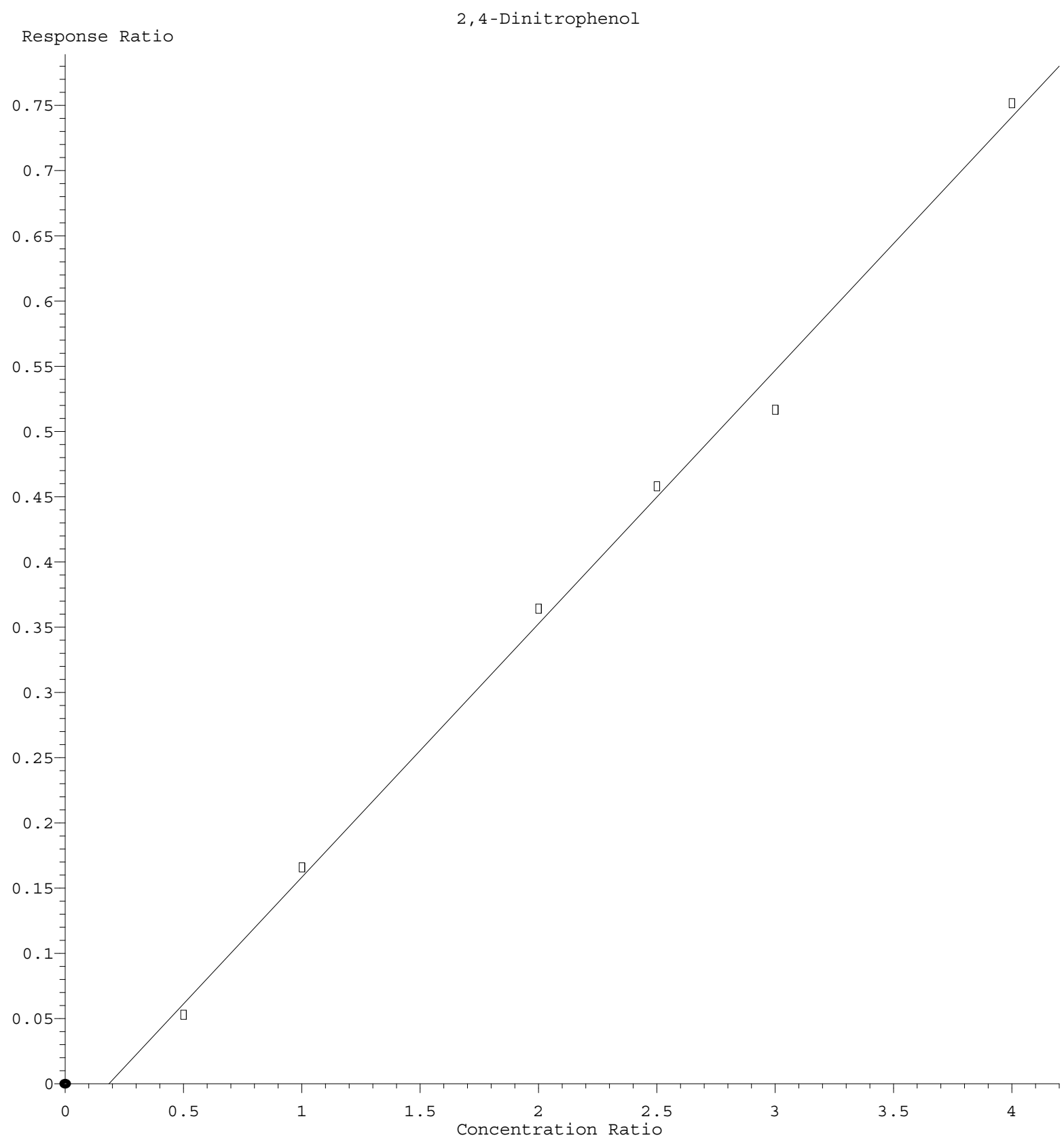

Response = 1.943e-001 * Amt - 3.603e-002
Coef of Det (r^2) = 0.995719 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP052024.M
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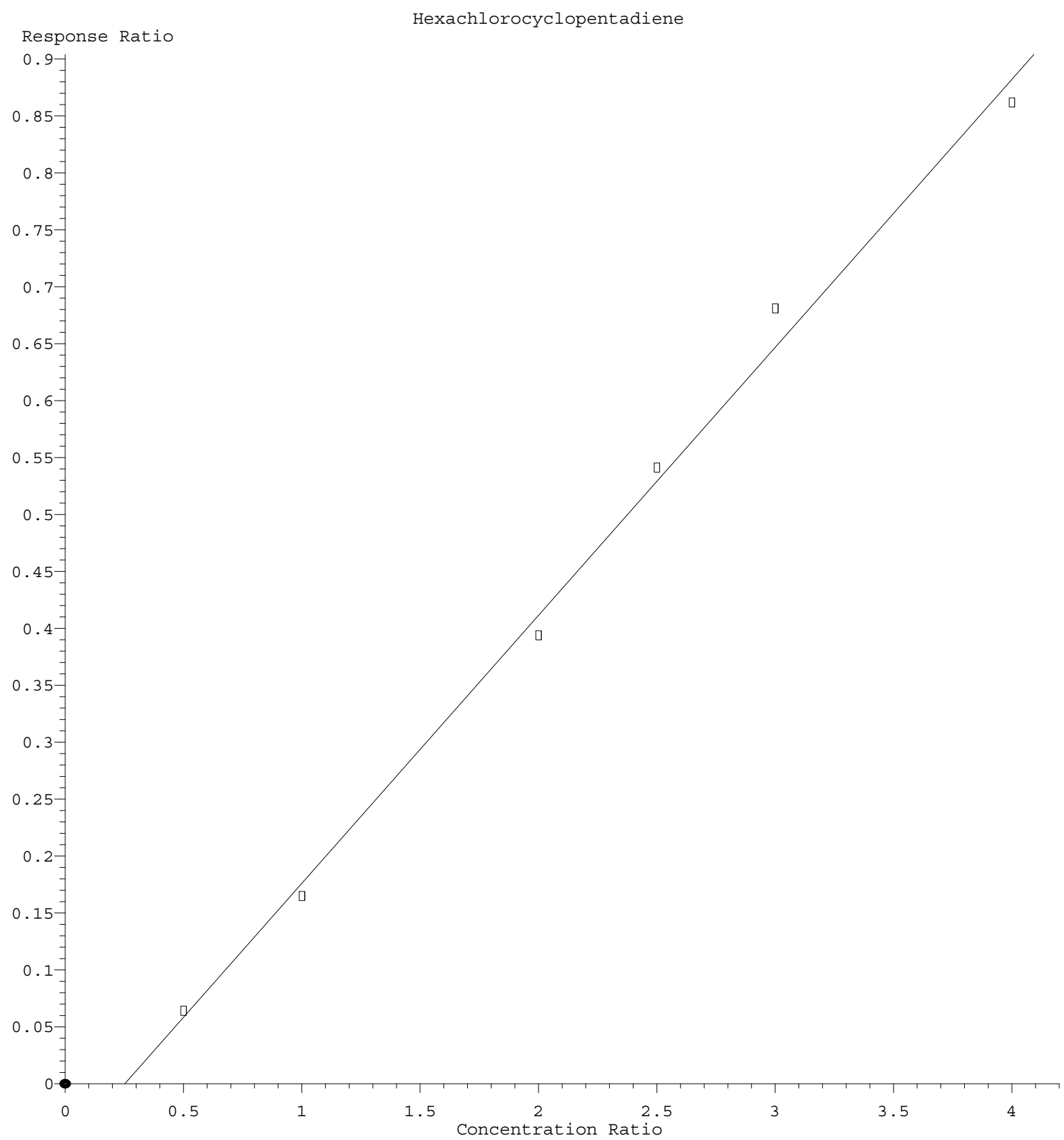

Response = 2.356e-001 * Amt - 5.927e-002
Coef of Det (r^2) = 0.995282 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP052024.M
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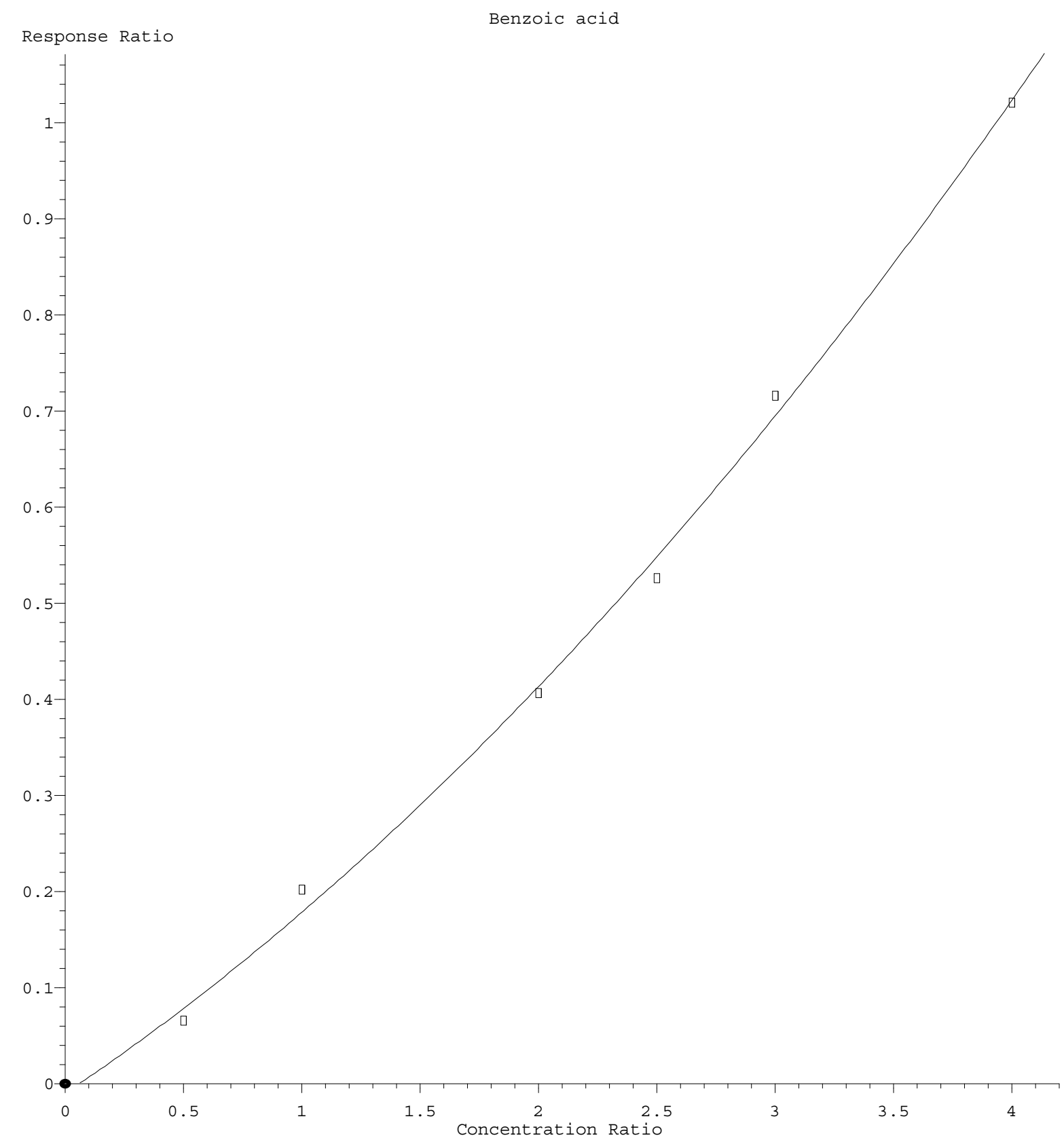

R = 2.335e-002 A*A + 1.649e-001 A - 9.917e-003
Coef of Det (r^2) = 0.997181 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP052024.M
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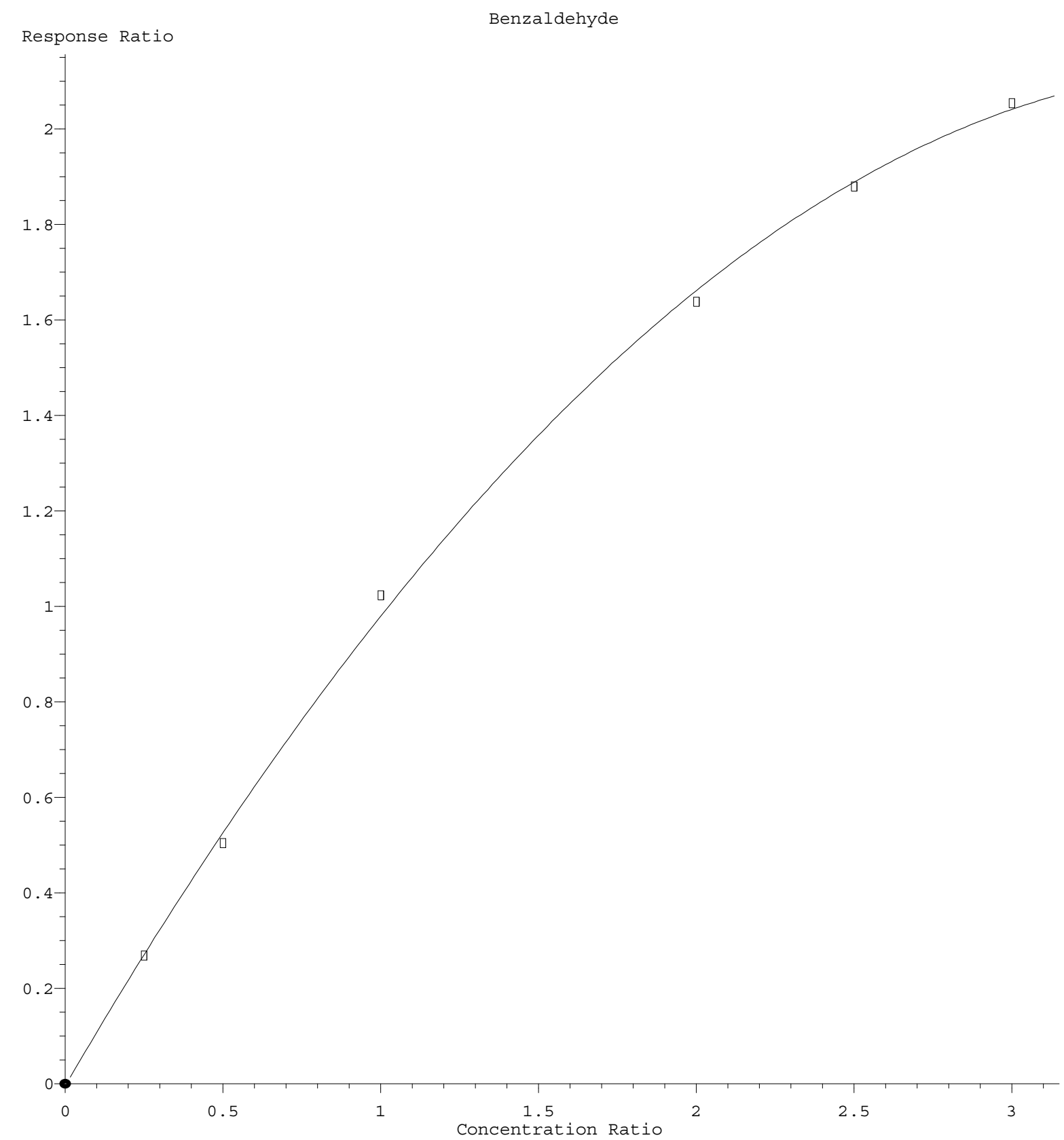

R = -1.510e-001 A*A + 1.135e+000 A - 3.932e-003
Coef of Det (r^2) = 0.998861 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP052024.M
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