Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG110122.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 02 05:05:12 2022
Response Via : Initial Calibration

Calibration Files
2.5 =BG055393.D 5 =BG055394.D 10 =BG055395.D 20 =BG055396.D 40 =BG055397.D 50 =BG055398.D 60 =BG055399.D 80 =BG0554
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.564	0.526	0.493	0.500	0.521	0.479	0.452	0.505	7.21
3)		Pyridine		1.505	1.481	1.473	1.491	1.630	1.477	1.437	1.499	4.08
4)		n-Nitrosodimet...		0.590	0.595	0.575	0.591	0.637	0.586	0.572	0.592	3.62
5)	S	2-Fluorophenol	1.085	1.138	1.146	1.103	1.100	1.183	1.104	1.051	1.114	3.65
6)		Aniline		2.048	2.088	1.957	1.920	2.124	1.996	1.889	2.003	4.37
7)	S	Phenol-d6	1.481	1.516	1.596	1.542	1.511	1.677	1.567	1.464	1.544	4.46
8)		2-Chlorophenol		1.416	1.443	1.336	1.297	1.412	1.323	1.246	1.353	5.34
9)		Benzaldehyde		0.916	0.971	0.907	0.889	0.967	0.891	0.816	0.908	5.77
10)	C	Phenol		1.771	1.805	1.739	1.690	1.860	1.744	1.629	1.748	4.30
11)		bis(2-Chloroet...		1.320	1.413	1.324	1.245	1.346	1.293	1.214	1.308	5.01
12)		1,3-Dichlorobe...		1.604	1.627	1.526	1.471	1.581	1.506	1.421	1.534	4.85
13)	C	1,4-Dichlorobe...		1.635	1.642	1.562	1.501	1.619	1.523	1.454	1.562	4.67
14)		1,2-Dichlorobe...		1.574	1.598	1.506	1.424	1.548	1.452	1.364	1.495	5.71
15)		Benzyl Alcohol		1.155	1.219	1.201	1.189	1.351	1.284	1.224	1.232	5.32
16)		2,2'-oxybis(1-...		1.847	1.842	1.768	1.640	1.767	1.706	1.610	1.740	5.31
17)		2-Methylphenol		1.247	1.311	1.258	1.199	1.344	1.272	1.172	1.258	4.75
18)		Hexachloroethane		0.543	0.573	0.541	0.502	0.549	0.521	0.502	0.533	4.89
19)	P	n-Nitroso-di-n...	1.243	1.222	1.287	1.191	1.122	1.257	1.198	1.134	1.207	4.78
20)		3+4-Methylphenols		1.749	1.867	1.754	1.691	1.923	1.828	1.697	1.787	4.91
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.542	0.539	0.514	0.507	0.544	0.515	0.508	0.524	3.21
23)	S	Nitrobenzene-d5	0.357	0.378	0.383	0.368	0.370	0.398	0.378	0.370	0.375	3.22
24)		Nitrobenzene		0.386	0.402	0.384	0.385	0.413	0.387	0.382	0.391	2.96
25)		Isophorone		0.751	0.768	0.722	0.708	0.780	0.743	0.731	0.743	3.43
26)	C	2-Nitrophenol		0.181	0.197	0.198	0.197	0.221	0.209	0.208	0.201	6.32
27)		2,4-Dimethylph...		0.279	0.288	0.278	0.270	0.305	0.281	0.277	0.282	4.01
28)		bis(2-Chloroet...		0.402	0.411	0.389	0.376	0.411	0.396	0.386	0.396	3.32
29)	C	2,4-Dichloroph...		0.329	0.337	0.337	0.331	0.375	0.353	0.350	0.345	4.66
30)		1,2,4-Trichlor...		0.369	0.382	0.370	0.361	0.392	0.371	0.366	0.373	2.82
31)		Naphthalene		1.135	1.168	1.119	1.087	1.184	1.112	1.077	1.126	3.52
32)		Benzoic acid			0.102	0.129	0.147	0.185	0.187	0.203	0.159	24.61
33)		4-Chloroaniline		0.449	0.472	0.459	0.455	0.506	0.475	0.459	0.468	4.07
34)	C	Hexachlorobuta...		0.228	0.238	0.233	0.223	0.240	0.231	0.230	0.232	2.59
35)		Caprolactam		0.122	0.138	0.127	0.123	0.137	0.125	0.121	0.128	5.58
36)	C	4-Chloro-3-met...		0.361	0.380	0.365	0.365	0.411	0.385	0.374	0.377	4.57
37)		2-Methylnaphth...		0.851	0.860	0.814	0.784	0.866	0.817	0.798	0.827	3.87
38)		1-Methylnaphth...		0.829	0.832	0.799	0.763	0.849	0.800	0.775	0.807	3.90

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...		0.599	0.596	0.587	0.568	0.620	0.589	0.576	0.591	2.84
41)	P	Hexachlorocycl...			0.158	0.203	0.235	0.268	0.277	0.285	0.238	20.83
42)	S	2,4,6-Tribromo...	0.247	0.256	0.284	0.276	0.268	0.299	0.279	0.272	0.273	5.92
43)	C	2,4,6-Trichlor...		0.381	0.393	0.404	0.400	0.451	0.428	0.423	0.411	5.81
44)		2,4,5-Trichlor...		0.429	0.456	0.438	0.446	0.499	0.473	0.468	0.458	5.18
45)	S	2-Fluorobiphenyl	1.399	1.440	1.436	1.356	1.280	1.364	1.282	1.235	1.349	5.66
46)		1,1'-Biphenyl		1.527	1.527	1.447	1.400	1.541	1.449	1.410	1.472	4.02
47)		2-Chloronaphth...		1.215	1.208	1.175	1.135	1.239	1.163	1.143	1.183	3.30
48)		2-Nitroaniline		0.337	0.359	0.357	0.358	0.394	0.373	0.365	0.363	4.83
49)		Acenaphthylene		1.994	2.009	1.928	1.870	2.042	1.905	1.845	1.942	3.84
50)		Dimethylphthalate		1.726	1.795	1.681	1.587	1.724	1.616	1.557	1.669	5.16
51)		2,6-Dinitrotol...		0.339	0.350	0.351	0.339	0.373	0.352	0.342	0.349	3.44
52)	C	Acenaphthene		1.200	1.200	1.122	1.106	1.213	1.141	1.108	1.156	4.07
53)		3-Nitroaniline		0.361	0.400	0.389	0.389	0.428	0.397	0.385	0.393	5.11
54)	P	2,4-Dinitrophenol			0.131	0.159	0.182	0.216	0.204	0.211	0.184	18.06
55)		Dibenzofuran		1.994	2.005	1.909	1.843	1.991	1.855	1.793	1.913	4.48
56)	P	4-Nitrophenol		0.203	0.261	0.264	0.280	0.310	0.284	0.281	0.269	12.33
57)		2,4-Dinitrotol...		0.453	0.502	0.505	0.496	0.541	0.509	0.492	0.500	5.19
58)		Fluorene		1.621	1.661	1.574	1.484	1.608	1.495	1.435	1.554	5.38
59)		2,3,4,6-Tetrac...		0.392	0.409	0.391	0.398	0.453	0.428	0.413	0.412	5.38
60)		Diethylphthalate		1.782	1.893	1.775	1.660	1.791	1.658	1.585	1.735	6.06
61)		4-Chlorophenyl...		0.820	0.846	0.812	0.761	0.835	0.787	0.762	0.803	4.24
62)		4-Nitroaniline		0.381	0.444	0.426	0.412	0.449	0.404	0.394	0.416	6.06
63)		Azobenzene		1.472	1.539	1.454	1.373	1.501	1.398	1.360	1.442	4.67
64)	I	Phenanthrene-d10	----------ISTD----------									
65)		4,6-Dinitro-2-...		0.095	0.121	0.126	0.133	0.148	0.140	0.139	0.129	13.64
66)	c	n-Nitrosodiphe...		0.620	0.607	0.586	0.561	0.620	0.595	0.573	0.595	3.81
67)		4-Bromophenyl-...		0.238	0.237	0.233	0.224	0.249	0.240	0.235	0.236	3.19
68)		Hexachlorobenzene		0.275	0.270	0.268	0.256	0.284	0.270	0.263	0.270	3.30
69)		Atrazine		0.206	0.217	0.198	0.191	0.208	0.194	0.185	0.200	5.50
70)	C	Pentachlorophenol			0.094	0.114	0.123	0.144	0.136	0.139	0.125	15.10
71)		Phenanthrene		1.173	1.183	1.130	1.086	1.169	1.095	1.040	1.125	4.76
72)		Anthracene		1.148	1.169	1.109	1.060	1.144	1.070	1.020	1.103	4.95
73)		Carbazole		1.061	1.106	1.031	0.998	1.062	0.984	0.939	1.026	5.50
74)		Di-n-butylphth...		1.295	1.406	1.315	1.250	1.316	1.231	1.156	1.281	6.15
75)	C	Fluoranthene		1.422	1.503	1.393	1.307	1.386	1.272	1.190	1.353	7.70
76)	I	Chrysene-d12	----------ISTD----------									
77)		Benzidine		0.389	0.396	0.415	0.447	0.456	0.431	0.381	0.416	7.04
78)		Pyrene		1.465	1.522	1.403	1.357	1.473	1.364	1.293	1.411	5.66
79)	S	Terphenyl-d14	1.091	1.106	1.152	1.038	0.971	1.023	0.961	0.887	1.029	8.47
80)		Butylbenzylpht...		0.572	0.595	0.582	0.570	0.630	0.593	0.576	0.588	3.53
81)		Benzo(a)anthra...		1.409	1.443	1.367	1.324	1.435	1.343	1.289	1.373	4.26
82)		3,3'-Dichlorob...		0.470	0.471	0.460	0.461	0.503	0.472	0.459	0.471	3.24
83)		Chrysene		1.379	1.378	1.302	1.242	1.354	1.285	1.229	1.310	4.75
84)		Bis(2-ethylhex...		0.848	0.875	0.853	0.827	0.905	0.857	0.820	0.855	3.36
85)	c	Di-n-octyl pht...		1.484	1.498	1.471	1.410	1.547	1.440	1.405	1.465	3.47

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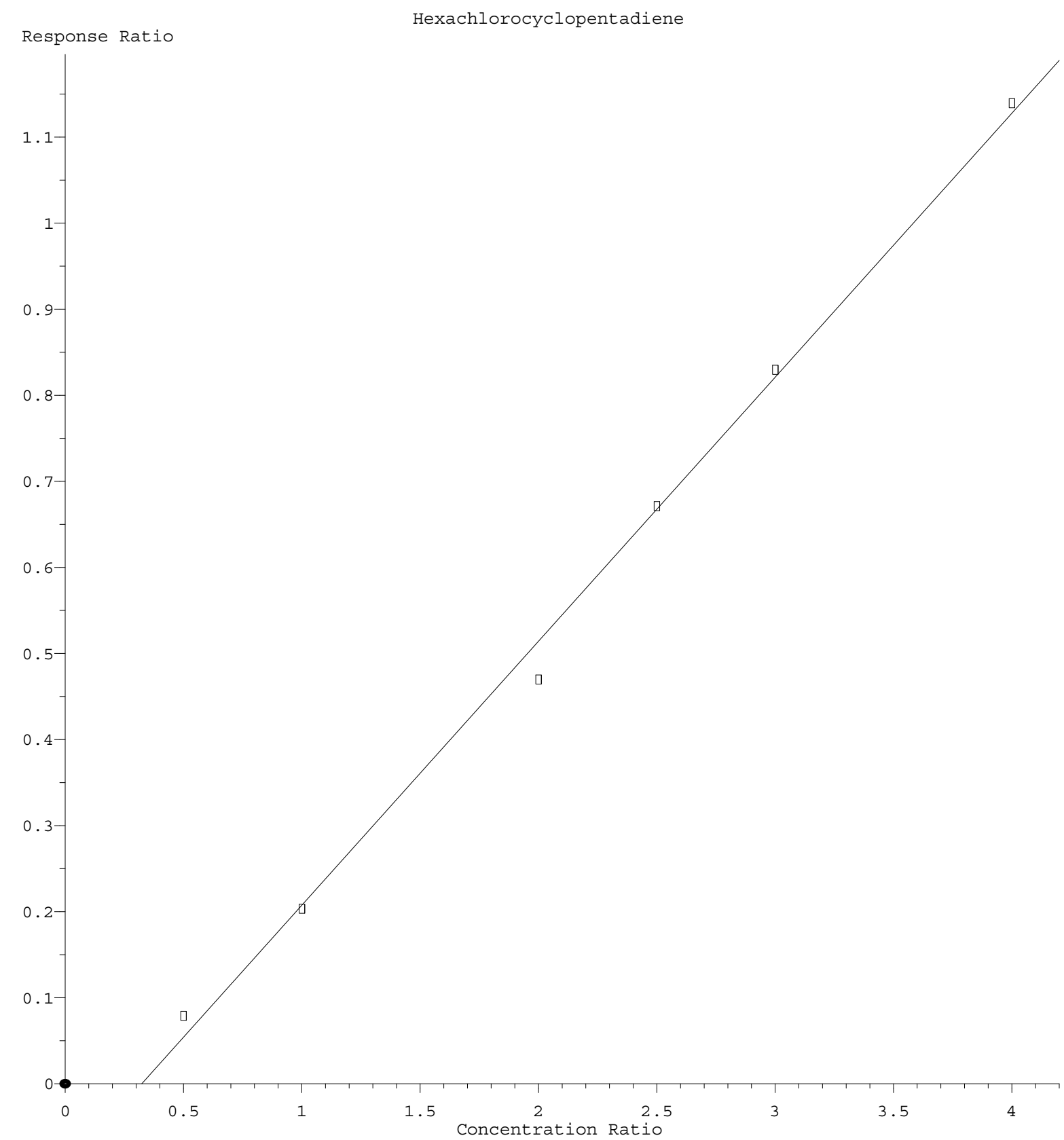
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.682	1.645	1.595	1.525	1.678	1.576	1.539	1.606	3.99
88)		Benzo(b)fluora...	1.301	1.326	1.265	1.232	1.327	1.261	1.181	1.270	4.19
89)		Benzo(k)fluora...	1.354	1.336	1.292	1.210	1.319	1.227	1.197	1.277	5.02
90)	C	Benzo(a)pyrene	1.154	1.142	1.092	1.043	1.148	1.074	1.036	1.098	4.54
91)		Dibenzo(a,h)an...	1.383	1.372	1.324	1.258	1.381	1.295	1.260	1.325	4.18
92)		Benzo(g,h,i)pe...	1.373	1.345	1.313	1.258	1.378	1.294	1.261	1.318	3.77

(#) = Out of Range



Response = 3.068e-001 * Amt - 9.945e-002
Coef of Det (r^2) = 0.996391 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110122.M
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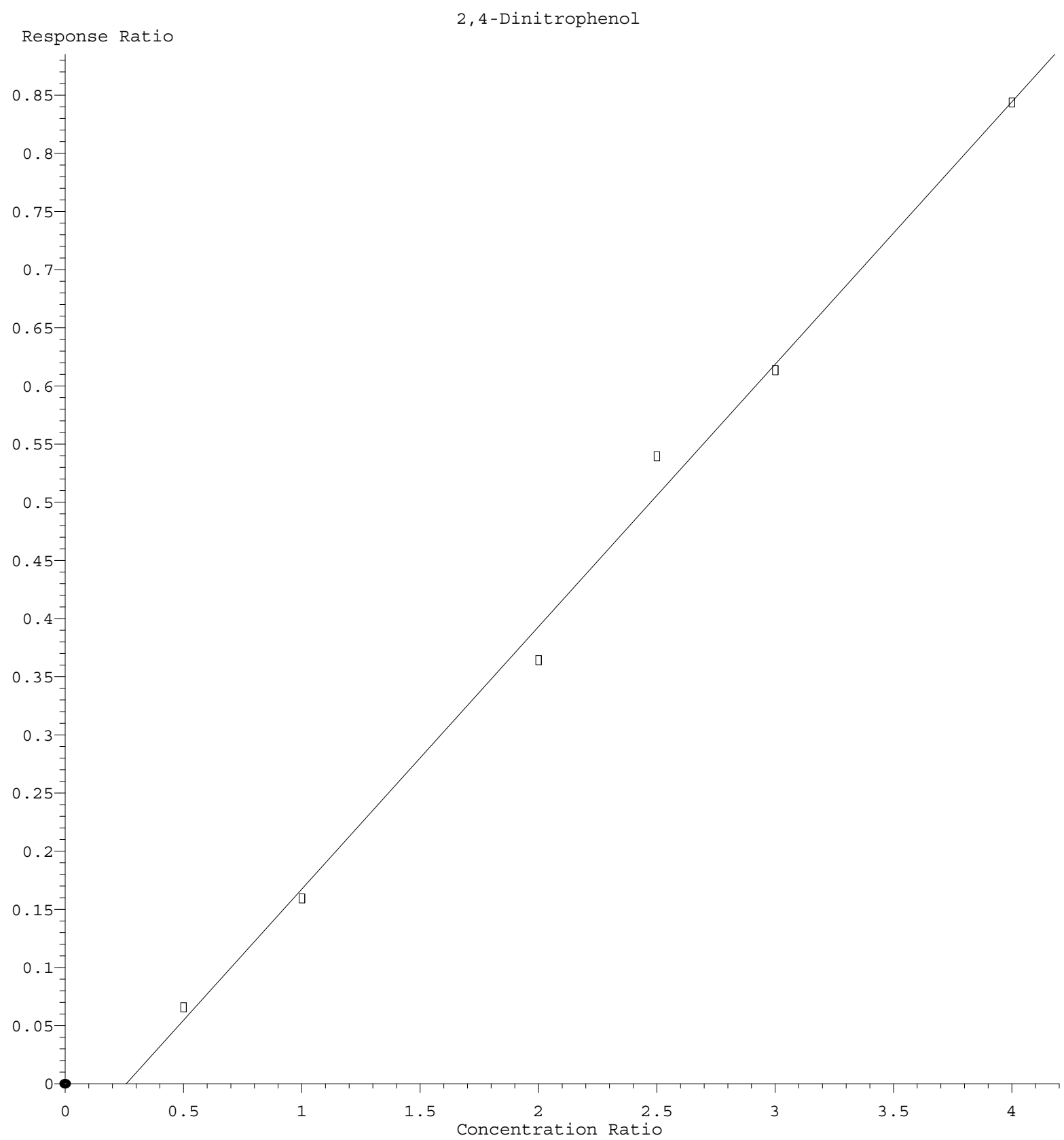

Response = 2.258e-001 * Amt - 5.824e-002
Coef of Det (r^2) = 0.994881 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110122.M
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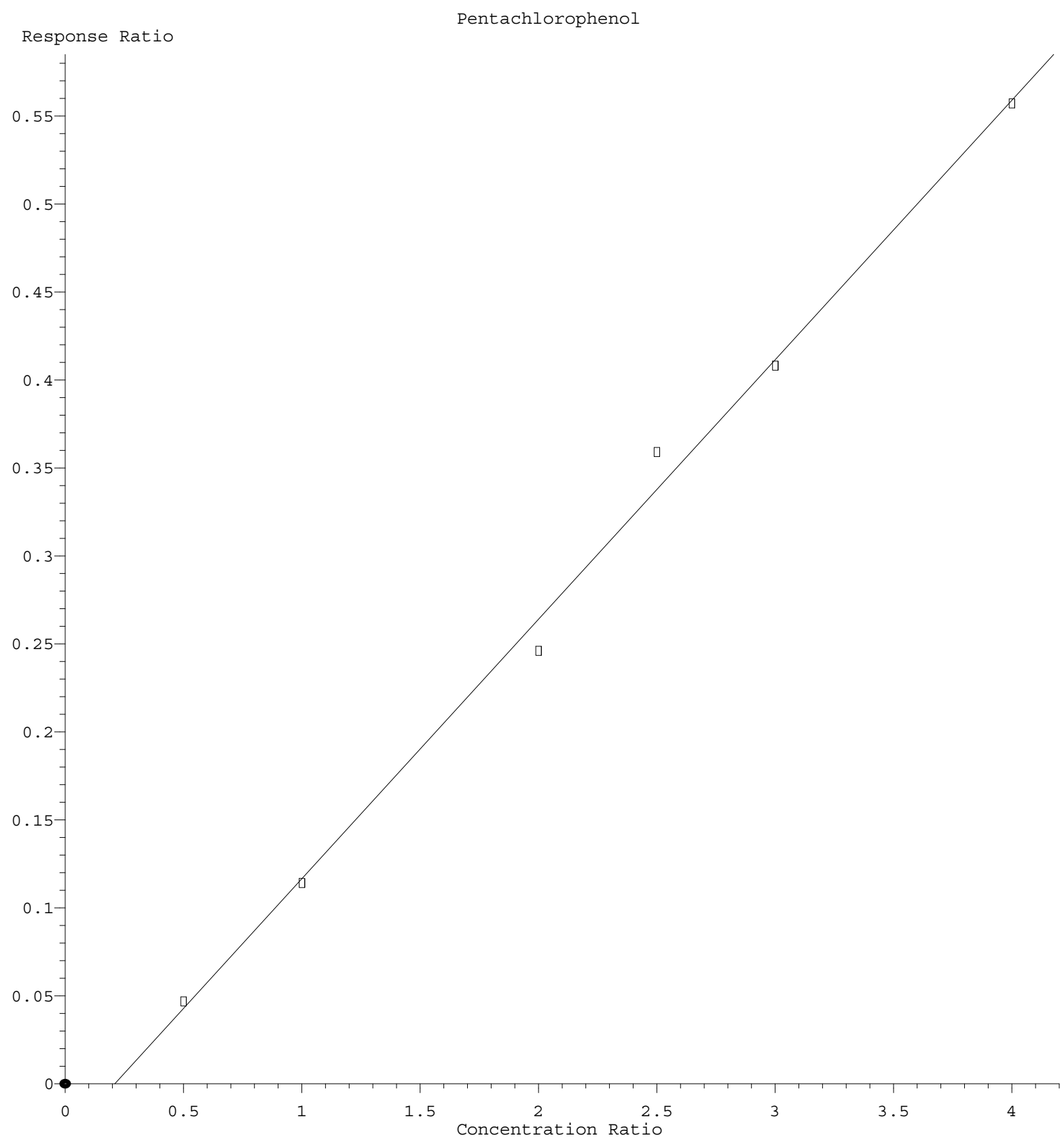

Response = 1.475e-001 * Amt - 3.102e-002
Coef of Det (r^2) = 0.995532 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110122.M
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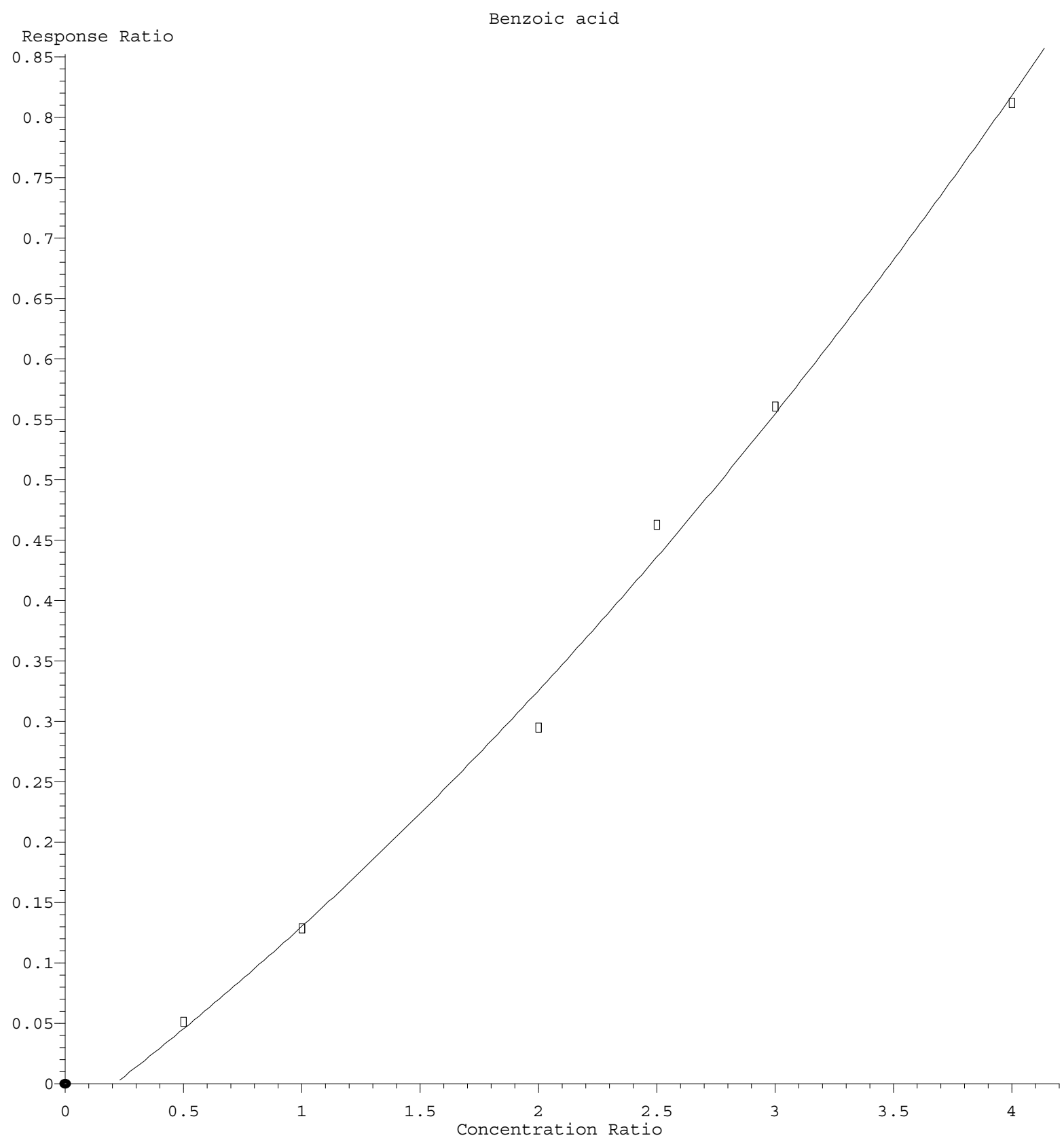

R = 1.697e-002 A*A + 1.444e-001 A - 3.107e-002
Coef of Det (r^2) = 0.995627 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG110122.M
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