Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG120524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Dec 06 01:09:20 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BG063579.D 5 =BG063580.D 10 =BG063581.D 20 =BG063582.D 40 =BG063583.D 50 =BG063584.D 60 =BG063585.D 80 =BG0635
86.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.511	0.532	0.539	0.485	0.437	0.452	0.421	0.482	9.73
3)		Pyridine		1.395	1.328	1.336	1.422	1.358	1.361	1.329	1.361	2.61
4)		n-Nitrosodimet...		0.626	0.660	0.686	0.710	0.721	0.713	0.691	0.687	4.92
5)	S	2-Fluorophenol		1.110	1.105	1.062	1.107	1.144	1.140	1.120	1.112	2.44
6)		Aniline		1.639	1.588	1.522	1.586	1.277	1.069		1.447	15.55
7)	S	Phenol-d6		1.669	1.689	1.748	1.741	1.764	1.785	1.749	1.735	2.37
8)		2-Chlorophenol		1.110	1.136	1.066	1.101	1.125	1.131	1.125	1.113	2.18
9)		Benzaldehyde		1.265	1.245	1.198	1.060	0.828			1.119	16.19
10)	C	Phenol		1.783	1.860	1.787	1.851	1.901	1.928	1.855	1.852	2.88
11)		bis(2-Chloroet...		1.276	1.266	1.275	1.282	1.290	1.294	1.443	1.304	4.75
12)		1,3-Dichlorobe...		1.472	1.385	1.356	1.332	1.303	1.294	1.286	1.347	4.88
13)	C	1,4-Dichlorobe...		1.420	1.504	1.421	1.402	1.351	1.335	1.328	1.395	4.45
14)		1,2-Dichlorobe...		1.547	1.385	1.373	1.379	1.315	1.297	1.310	1.372	6.21
15)		Benzyl Alcohol		1.302	1.443	1.506	1.567	1.597	1.594	1.622	1.519	7.49
16)		2,2'-oxybis(1-...		1.514	1.394	1.409	1.498	1.530	1.565	1.621	1.504	5.37
17)		2-Methylphenol		1.136	1.124	1.157	1.211	1.231	1.199	1.257	1.188	4.20
18)		Hexachloroethane		0.640	0.564	0.569	0.563	0.545	0.550	0.543	0.568	5.88
19)	P	n-Nitroso-di-n...	1.249	1.352	1.275	1.314	1.364	1.374	1.361	1.380	1.334	3.67
20)		3+4-Methylphenols		1.483	1.607	1.624	1.700	1.701	1.655	1.718	1.641	4.95
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.638	0.573	0.617	0.612	0.587	0.613	0.567	0.601	4.32
23)	S	Nitrobenzene-d5		0.492	0.489	0.519	0.516	0.514	0.541	0.505	0.511	3.50
24)		Nitrobenzene		0.551	0.516	0.543	0.553	0.559	0.585	0.541	0.550	3.81
25)		Isophorone		0.889	0.850	0.913	0.940	0.915	0.943	0.901	0.907	3.53
26)	C	2-Nitrophenol		0.161	0.155	0.159	0.163	0.156	0.168	0.162	0.161	2.91
27)		2,4-Dimethylph...		0.222	0.186	0.200	0.204	0.207	0.218	0.204	0.206	5.70
28)		bis(2-Chloroet...		0.464	0.434	0.436	0.462	0.452	0.468	0.446	0.452	3.03
29)	C	2,4-Dichloroph...		0.340	0.326	0.335	0.357	0.344	0.364	0.345	0.344	3.71
30)		1,2,4-Trichlor...		0.495	0.453	0.460	0.443	0.421	0.425	0.396	0.442	7.17
31)		Naphthalene		1.124	1.014	1.002	1.011	0.980	1.007	0.948	1.012	5.37
32)		Benzoic acid			0.045	0.091	0.109	0.134	0.153	0.165	0.116	38.29
33)		4-Chloroaniline		0.341	0.324	0.339	0.339	0.307	0.272	0.235	0.308	13.10
34)	C	Hexachlorobuta...		0.447	0.414	0.390	0.389	0.362	0.358	0.330	0.384	10.08
35)		Caprolactam		0.106	0.105	0.116	0.107	0.104	0.112	0.107	0.108	3.96
36)	C	4-Chloro-3-met...		0.409	0.412	0.417	0.422	0.421	0.443	0.415	0.420	2.69
37)		2-Methylnaphth...		0.845	0.767	0.776	0.774	0.748	0.768	0.723	0.771	4.84
38)		1-Methylnaphth...		0.833	0.757	0.793	0.779	0.751	0.761	0.716	0.770	4.79

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.810	0.779	0.802	0.757	0.746	0.750	0.721	0.766	4.16
41)	P	Hexachlorocycl...		0.129	0.146	0.186	0.200	0.196	0.196	0.175	17.23
42)	S	2,4,6-Tribromo...	0.317	0.292	0.302	0.276	0.285	0.287	0.274	0.290	5.24
43)	C	2,4,6-Trichlor...	0.371	0.367	0.397	0.406	0.418	0.416	0.409	0.398	5.23
44)		2,4,5-Trichlor...	0.463	0.413	0.466	0.471	0.493	0.483	0.477	0.467	5.52
45)	S	2-Fluorobiphenyl	1.377	1.322	1.357	1.282	1.286	1.256	1.183	1.295	5.06
46)		1,1'-Biphenyl	1.377	1.267	1.306	1.257	1.294	1.276	1.252	1.290	3.33
47)		2-Chloronaphth...	1.074	1.055	1.077	1.037	1.062	1.071	1.052	1.061	1.36
48)		2-Nitroaniline	0.238	0.278	0.330	0.341	0.363	0.391	0.387	0.333	17.00
49)		Acenaphthylene	1.580	1.495	1.566	1.547	1.581	1.563	1.520	1.550	2.07
50)		Dimethylphthalate	1.480	1.432	1.419	1.404	1.443	1.442	1.391	1.430	2.03
51)		2,6-Dinitrotol...	0.257	0.294	0.297	0.285	0.307	0.315	0.307	0.294	6.57
52)	C	Acenaphthene	1.000	0.976	0.971	0.957	0.985	0.979	0.944	0.973	1.89
53)		3-Nitroaniline	0.222	0.231	0.251	0.243	0.246	0.251	0.242	0.241	4.48
54)	P	2,4-Dinitrophenol		0.108	0.129	0.157	0.182	0.193	0.191	0.160	22.06
55)		Dibenzofuran	1.971	1.822	1.846	1.739	1.769	1.766	1.670	1.797	5.31
56)	P	4-Nitrophenol	0.165	0.128	0.176	0.187	0.204	0.211	0.205	0.182	16.05
57)		2,4-Dinitrotol...	0.434	0.409	0.424	0.414	0.447	0.446	0.435	0.430	3.42
58)		Fluorene	1.556	1.490	1.462	1.425	1.397	1.414	1.365	1.444	4.44
59)		2,3,4,6-Tetrac...	0.457	0.451	0.463	0.439	0.461	0.470	0.449	0.456	2.25
60)		Diethylphthalate	1.462	1.389	1.377	1.373	1.410	1.413	1.363	1.398	2.42
61)		4-Chlorophenyl...	1.028	1.022	0.996	0.944	0.921	0.938	0.877	0.961	5.84
62)		4-Nitroaniline	0.229	0.239	0.288	0.263	0.288	0.308	0.287	0.272	10.66
63)		Azobenzene	1.778	1.775	1.767	1.755	1.823	1.816	1.729	1.778	1.86
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.078	0.094	0.099	0.107	0.113	0.125	0.115	0.104	14.77
66)	c	n-Nitrosodiphe...	0.460	0.432	0.438	0.450	0.446	0.505	0.451	0.455	5.25
67)		4-Bromophenyl-...	0.249	0.235	0.230	0.239	0.233	0.263	0.233	0.240	4.89
68)		Hexachlorobenzene	0.271	0.258	0.258	0.256	0.250	0.275	0.244	0.259	4.14
69)		Atrazine	0.195	0.170	0.136	0.155	0.189	0.211	0.171	0.175	14.43
70)	C	Pentachlorophenol		0.089	0.100	0.113	0.119	0.128	0.127	0.113	13.86
71)		Phenanthrene	0.998	0.963	0.954	0.930	0.915	0.941	0.866	0.938	4.40
72)		Anthracene	0.974	0.946	0.944	0.907	0.904	0.929	0.851	0.922	4.28
73)		Carbazole	0.813	0.819	0.845	0.782	0.798	0.815	0.739	0.802	4.22
74)		Di-n-butylphth...	0.821	0.814	0.842	0.782	0.806	0.825	0.775	0.809	2.95
75)	C	Fluoranthene	1.449	1.455	1.453	1.275	1.184	1.327	1.095	1.320	10.88
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.322	0.346	0.237	0.285	0.062	0.126	0.122	0.214	51.84
78)		Pyrene	1.354	1.266	1.263	1.291	1.198	1.216	1.129	1.245	5.80
79)	S	Terphenyl-d14	1.138	1.063	1.079	1.052	0.946	0.878	0.774	0.990	13.03
80)		Butylbenzylpht...	0.235	0.224	0.249	0.274	0.276	0.289	0.292	0.263	10.22
81)		Benzo(a)anthra...	1.368	1.287	1.285	1.295	1.238	1.245	1.177	1.271	4.65
82)		3,3'-Dichlorob...	0.379	0.369	0.387	0.406	0.369	0.379	0.370	0.380	3.51
83)		Chrysene	1.263	1.236	1.225	1.248	1.195	1.194	1.101	1.209	4.47
84)		Bis(2-ethylhex...	0.370	0.361	0.378	0.408	0.406	0.430	0.428	0.397	7.02
85)	c	Di-n-octyl pht...	0.620	0.617	0.666	0.711	0.727	0.748	0.752	0.692	8.29

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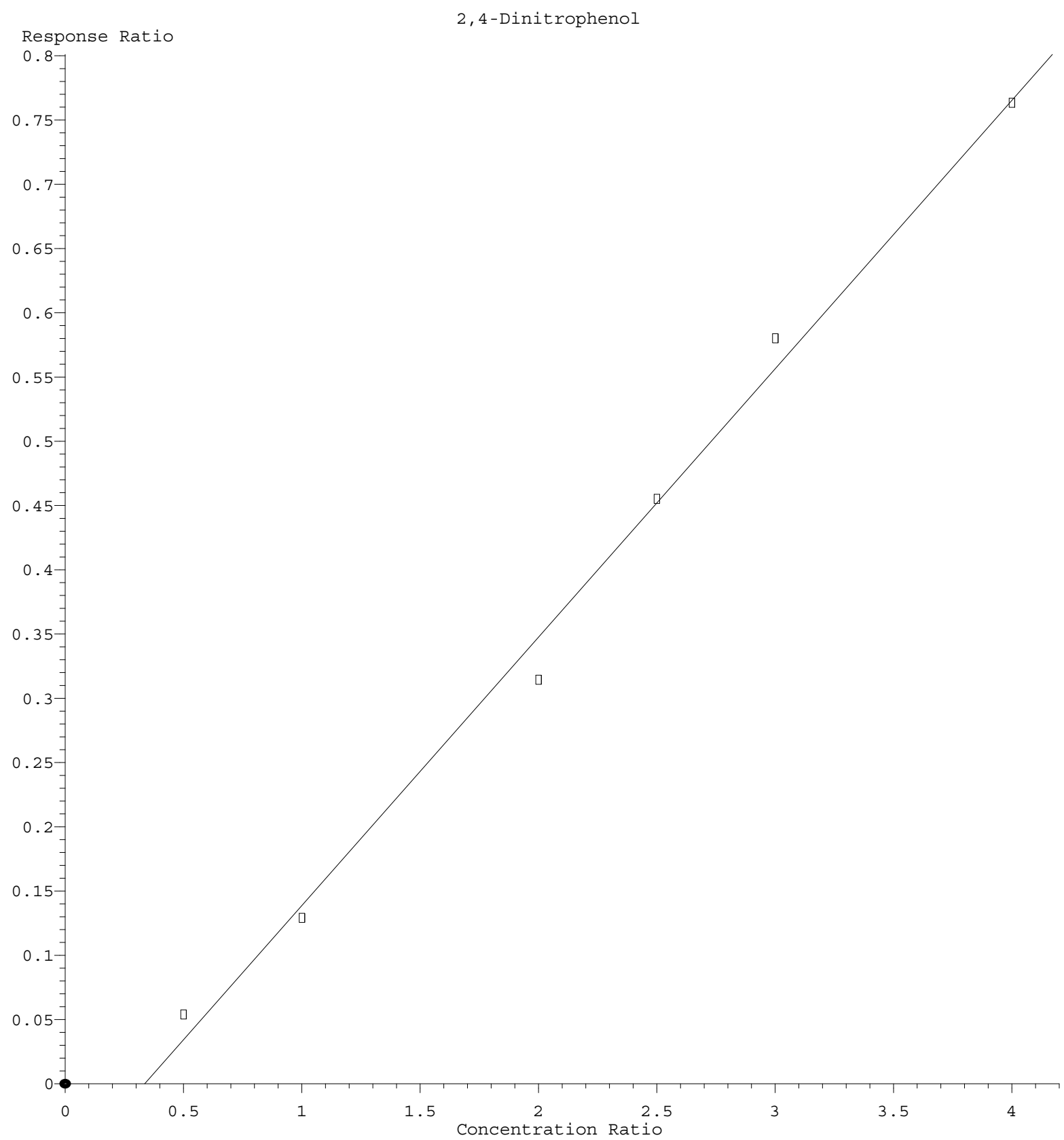
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.352	1.218	1.312	1.331	1.301	1.332	1.327	1.310	3.33
88)		Benzo(b)fluora...	1.293	1.352	1.240	1.233	1.238	1.193	1.187	1.248	4.63
89)		Benzo(k)fluora...	1.238	1.297	1.221	1.200	1.202	1.167	1.124	1.207	4.52
90)	C	Benzo(a)pyrene	1.084	1.058	1.098	1.085	1.062	1.075	1.046	1.072	1.67
91)		Dibenzo(a,h)an...	1.092	0.993	1.099	1.112	1.074	1.095	1.096	1.080	3.70
92)		Benzo(g,h,i)pe...	1.108	1.036	1.114	1.108	1.131	1.104	1.097	1.100	2.73

(#) = Out of Range



Response = 2.090e-001 * Amt - 7.020e-002
Coef of Det (r^2) = 0.994128 Curve Fit: Linear
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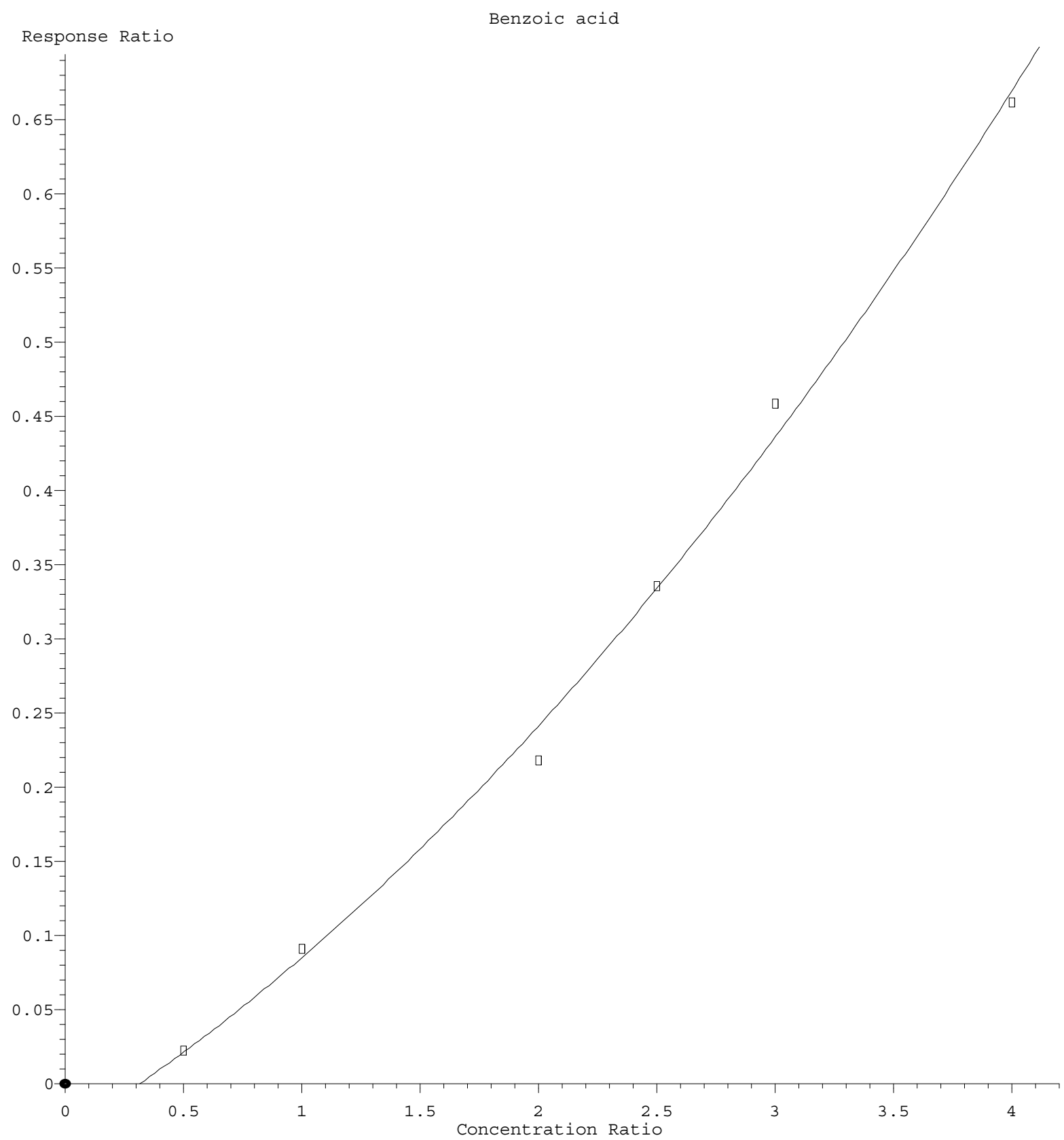

R = 1.925e-002 A*A + 9.857e-002 A - 3.284e-002
Coef of Det (r^2) = 0.995965 Curve Fit: Quadratic
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