Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG012723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jan 28 00:39:13 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG056453.D 5 =BG056454.D 10 =BG056455.D 20 =BG056456.D 40 =BG056457.D 50 =BG056458.D 60 =BG056459.D 80 =BG0564
60.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.524	0.478	0.483	0.445	0.439	0.425	0.376	0.453	10.46
3)		Pyridine		1.426	1.273	1.359	1.379	1.376	1.365	1.270	1.349	4.27
4)		n-Nitrosodimet...		0.286	0.287	0.310	0.290	0.286	0.281	0.269	0.287	4.28
5)	S	2-Fluorophenol		1.189	1.066	1.133	1.090	1.078	1.062	0.992	1.087	5.65
6)		Aniline		2.157	2.034	2.224	2.145	2.155	2.086	1.963	2.109	4.16
7)	S	Phenol-d6		1.657	1.543	1.692	1.639	1.635	1.602	1.509	1.611	4.03
8)		2-Chlorophenol		1.255	1.212	1.267	1.199	1.191	1.157	1.080	1.194	5.27
9)		Benzaldehyde		0.980	0.910	0.894	0.715	0.687	0.622		0.801	18.07
10)	C	Phenol		1.690	1.607	1.735	1.642	1.656	1.607	1.525	1.637	4.12
11)		bis(2-Chloroet...		1.185	1.138	1.162	1.142	1.121	1.089	1.041	1.125	4.26
12)		1,3-Dichlorobe...		1.529	1.359	1.430	1.354	1.365	1.341	1.248	1.375	6.28
13)	C	1,4-Dichlorobe...		1.487	1.431	1.465	1.371	1.378	1.351	1.266	1.393	5.42
14)		1,2-Dichlorobe...		1.459	1.383	1.407	1.356	1.323	1.306	1.224	1.351	5.65
15)		Benzyl Alcohol		1.076	1.020	1.164	1.153	1.140	1.122	1.062	1.105	4.87
16)		2,2'-oxybis(1-...		0.229	0.234	0.262	0.246	0.245	0.230	0.224	0.238	5.56
17)		2-Methylphenol		1.302	1.177	1.314	1.269	1.254	1.251	1.152	1.246	4.85
18)		Hexachloroethane		0.456	0.423	0.437	0.419	0.424	0.407	0.383	0.421	5.41
19)	P	n-Nitroso-di-n...	0.838	1.021	0.878	1.017	0.961	0.930	0.907	0.875	0.928	7.25
20)		3+4-Methylphenols		1.644	1.696	1.847	1.809	1.790	1.762	1.670	1.746	4.38
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.555	0.521	0.536	0.544	0.526	0.526	0.511	0.531	2.78
23)	S	Nitrobenzene-d5		0.374	0.347	0.349	0.357	0.351	0.349	0.338	0.352	3.16
24)		Nitrobenzene		0.340	0.332	0.346	0.346	0.340	0.344	0.330	0.340	1.92
25)		Isophorone		0.753	0.704	0.737	0.753	0.722	0.718	0.701	0.727	2.95
26)	C	2-Nitrophenol		0.205	0.196	0.202	0.215	0.210	0.210	0.205	0.206	3.05
27)		2,4-Dimethylph...		0.350	0.335	0.347	0.356	0.347	0.344	0.335	0.345	2.30
28)		bis(2-Chloroet...		0.423	0.407	0.397	0.409	0.398	0.395	0.381	0.401	3.31
29)	C	2,4-Dichloroph...		0.380	0.362	0.385	0.405	0.396	0.398	0.390	0.388	3.63
30)		1,2,4-Trichlor...		0.445	0.429	0.420	0.445	0.435	0.428	0.418	0.431	2.51
31)		Naphthalene		1.080	1.030	1.055	1.082	1.060	1.053	1.030	1.056	2.00
32)		Benzoic acid			0.144	0.182	0.204	0.202	0.212	0.215	0.193	13.92
33)		4-Chloroaniline		0.499	0.479	0.503	0.516	0.494	0.488	0.470	0.493	3.13
34)	C	Hexachlorobuta...		0.305	0.307	0.293	0.309	0.307	0.305	0.295	0.303	2.10
35)		Caprolactam		0.153	0.121	0.133	0.137	0.125	0.127	0.119	0.131	8.81
36)	C	4-Chloro-3-met...		0.351	0.372	0.375	0.393	0.380	0.381	0.374	0.375	3.35
37)		2-Methylnaphth...		0.912	0.839	0.867	0.900	0.864	0.865	0.845	0.870	3.09
38)		1-Methylnaphth...		0.841	0.783	0.818	0.840	0.814	0.807	0.788	0.813	2.80

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.717	0.728	0.727	0.730	0.755	0.741	0.716	0.731	1.87
41)	P	Hexachlorocycl...		0.203	0.266	0.339	0.374	0.378	0.388	0.325	22.89
42)	S	2,4,6-Tribromo...	0.275	0.257	0.265	0.269	0.271	0.267	0.258	0.266	2.43
43)	C	2,4,6-Trichlor...	0.451	0.450	0.458	0.484	0.494	0.488	0.472	0.471	3.88
44)		2,4,5-Trichlor...	0.518	0.536	0.552	0.555	0.576	0.571	0.551	0.551	3.59
45)	S	2-Fluorobiphenyl	1.483	1.463	1.442	1.437	1.465	1.435	1.373	1.443	2.46
46)		1,1'-Biphenyl	1.520	1.431	1.422	1.462	1.470	1.446	1.404	1.451	2.63
47)		2-Chloronaphth...	1.177	1.122	1.123	1.134	1.154	1.131	1.096	1.134	2.26
48)		2-Nitroaniline	0.227	0.224	0.242	0.241	0.244	0.236	0.227	0.234	3.55
49)		Acenaphthylene	1.884	1.824	1.839	1.874	1.874	1.857	1.760	1.845	2.32
50)		Dimethylphthalate	1.761	1.615	1.612	1.626	1.610	1.584	1.519	1.618	4.48
51)		2,6-Dinitrotol...	0.389	0.342	0.353	0.353	0.359	0.345	0.329	0.353	5.33
52)	C	Acenaphthene	1.125	1.081	1.086	1.108	1.106	1.098	1.054	1.094	2.09
53)		3-Nitroaniline	0.356	0.337	0.347	0.351	0.344	0.339	0.321	0.342	3.38
54)	P	2,4-Dinitrophenol		0.163	0.205	0.236	0.246	0.242	0.235	0.221	14.41
55)		Dibenzofuran	2.063	1.952	1.988	1.986	1.964	1.924	1.857	1.962	3.23
56)	P	4-Nitrophenol	0.234	0.200	0.232	0.246	0.246	0.246	0.232	0.234	6.94
57)		2,4-Dinitrotol...	0.509	0.490	0.511	0.509	0.503	0.492	0.467	0.497	3.18
58)		Fluorene	1.645	1.555	1.589	1.583	1.564	1.523	1.468	1.561	3.54
59)		2,3,4,6-Tetrac...	0.469	0.452	0.487	0.516	0.513	0.497	0.498	0.490	4.74
60)		Diethylphthalate	1.663	1.539	1.548	1.524	1.497	1.473	1.391	1.519	5.45
61)		4-Chlorophenyl...	0.992	0.940	0.939	0.964	0.962	0.957	0.914	0.953	2.56
62)		4-Nitroaniline	0.365	0.334	0.348	0.348	0.344	0.336	0.320	0.342	4.16
63)		Azobenzene	1.125	1.040	1.058	1.060	1.042	1.019	0.974	1.045	4.39
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.121	0.126	0.142	0.149	0.151	0.148	0.148	0.141	8.65
66)	c	n-Nitrosodiphe...	0.564	0.557	0.559	0.579	0.578	0.569	0.557	0.566	1.64
67)		4-Bromophenyl-...	0.247	0.246	0.249	0.265	0.264	0.261	0.260	0.256	3.33
68)		Hexachlorobenzene	0.254	0.240	0.247	0.259	0.253	0.252	0.250	0.251	2.33
69)		Atrazine	0.235	0.221	0.226	0.230	0.215	0.206	0.196	0.218	6.35
70)	C	Pentachlorophenol		0.119	0.139	0.161	0.164	0.164	0.164	0.152	12.47
71)		Phenanthrene	1.089	1.030	1.059	1.070	1.046	1.034	1.000	1.047	2.79
72)		Anthracene	1.107	1.059	1.086	1.102	1.077	1.066	1.025	1.075	2.60
73)		Carbazole	0.970	0.910	0.938	0.929	0.910	0.891	0.859	0.915	3.89
74)		Di-n-butylphth...	1.013	0.971	0.975	0.972	0.949	0.938	0.910	0.961	3.40
75)	C	Fluoranthene	1.437	1.314	1.347	1.344	1.310	1.275	1.221	1.321	5.06
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.668	0.570	0.552	0.505	0.497	0.456	0.541	13.75
78)		Pyrene	1.555	1.442	1.443	1.441	1.392	1.359	1.325	1.422	5.23
79)	S	Terphenyl-d14	1.269	1.169	1.166	1.149	1.103	1.075	1.040	1.139	6.59
80)		Butylbenzylpht...	0.446	0.425	0.439	0.442	0.443	0.424	0.423	0.434	2.36
81)		Benzo(a)anthra...	1.438	1.380	1.418	1.429	1.406	1.376	1.340	1.398	2.48
82)		3,3'-Dichlorob...	0.534	0.514	0.509	0.513	0.502	0.486	0.467	0.504	4.26
83)		Chrysene	1.333	1.320	1.331	1.326	1.325	1.297	1.265	1.314	1.89
84)		Bis(2-ethylhex...	0.635	0.612	0.634	0.631	0.632	0.615	0.602	0.623	2.08
85)	c	Di-n-octyl pht...	1.049	1.029	1.049	1.061	1.047	1.020	1.005	1.037	1.92

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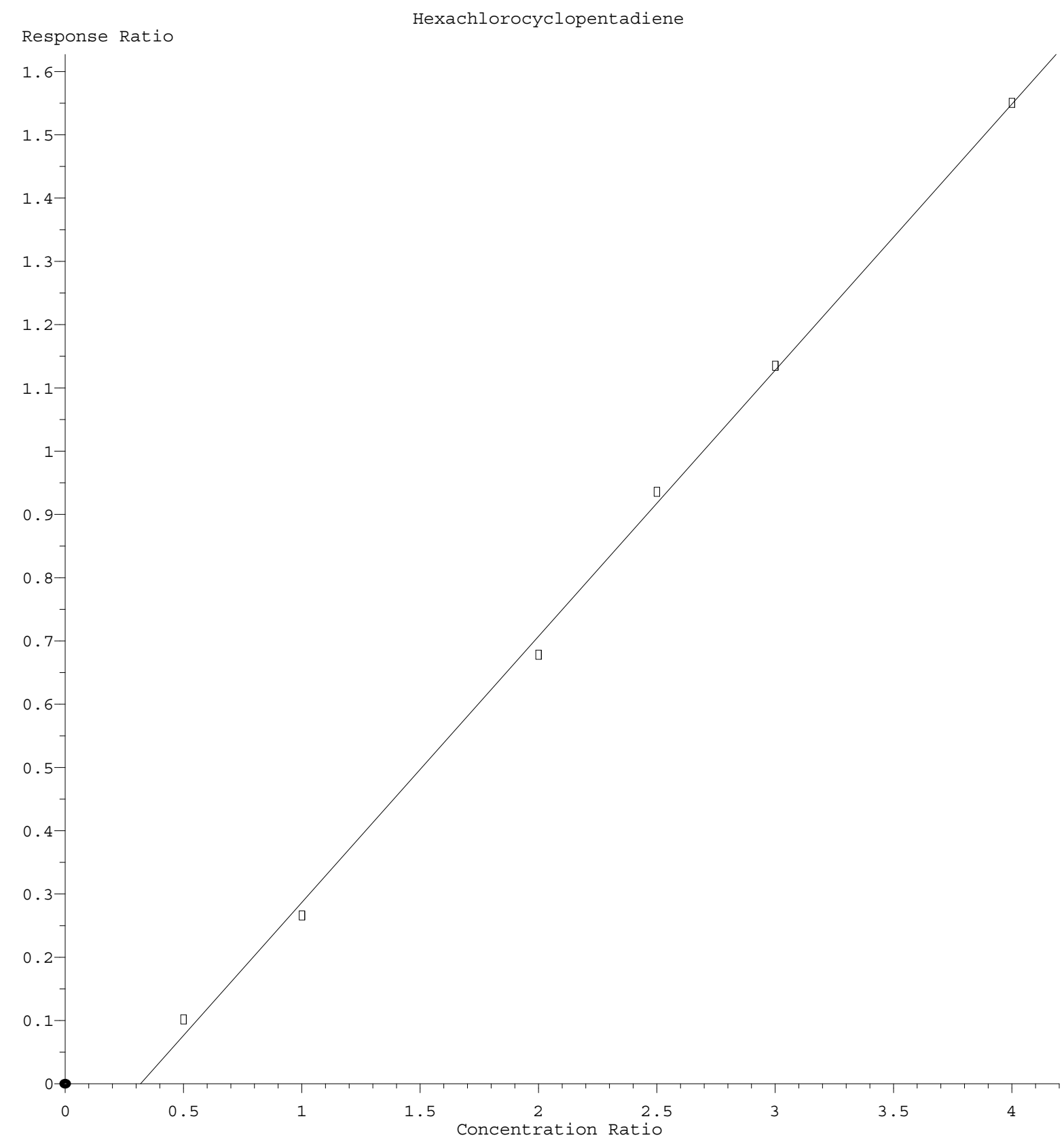
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.483	1.426	1.465	1.489	1.492	1.468	1.424	1.464	1.94
88)		Benzo(b)fluora...	1.269	1.206	1.245	1.269	1.284	1.227	1.191	1.241	2.82
89)		Benzo(k)fluora...	1.275	1.254	1.262	1.271	1.257	1.254	1.200	1.253	1.99
90)	C	Benzo(a)pyrene	1.257	1.203	1.223	1.240	1.247	1.215	1.176	1.223	2.28
91)		Dibenzo(a,h)an...	1.270	1.210	1.217	1.246	1.250	1.224	1.186	1.229	2.31
92)		Benzo(g,h,i)pe...	1.189	1.157	1.179	1.209	1.210	1.194	1.162	1.186	1.78

(#) = Out of Range



Response = 4.208e-001 * Amt - 1.341e-001
Coef of Det (r^2) = 0.998443 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG012723.M
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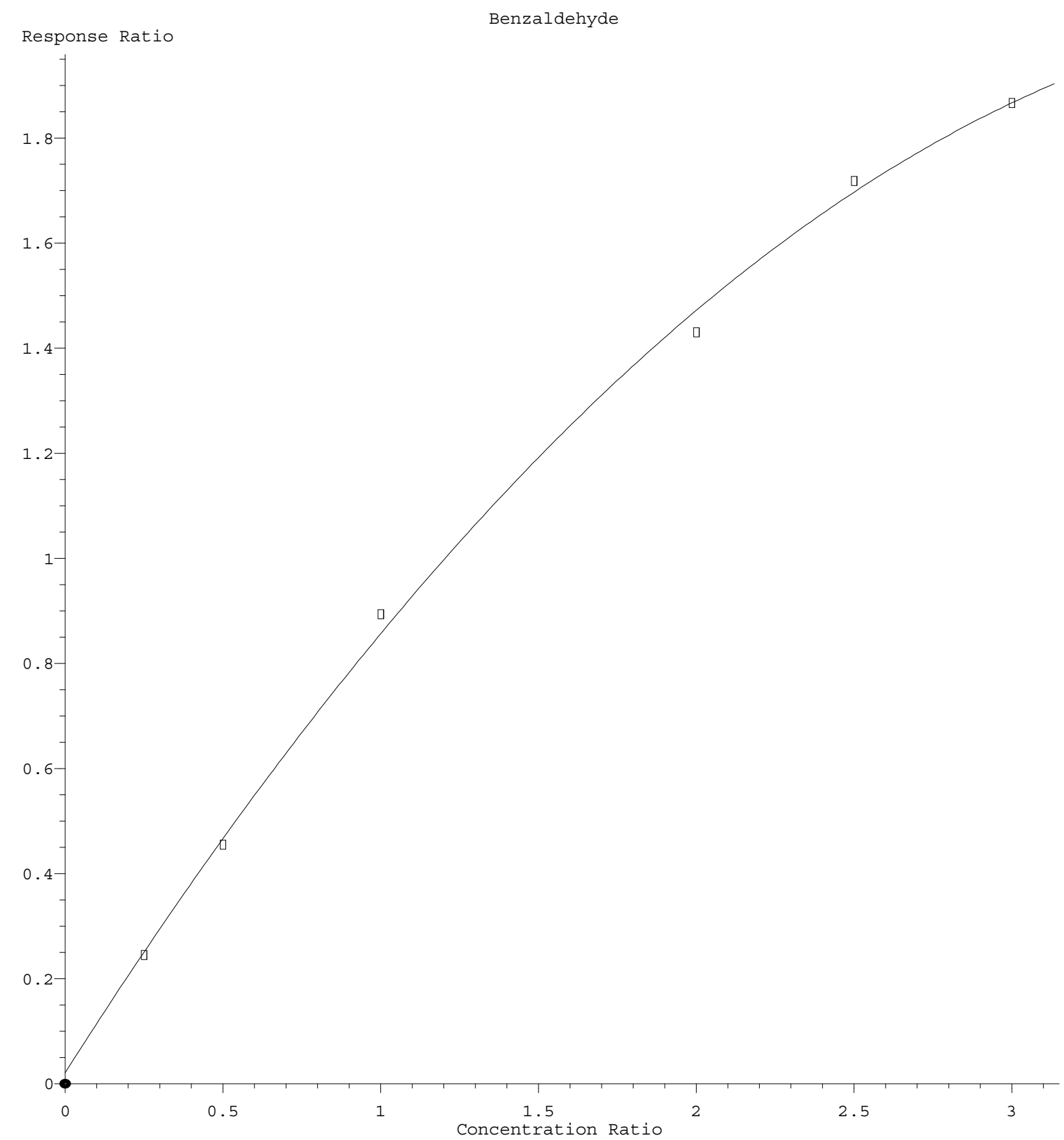

R = -1.101e-001 A*A + 9.456e-001 A + 2.106e-002
Coef of Det (r^2) = 0.998358 Curve Fit: Quadratic
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