Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG052723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri May 26 23:44:40 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG057587.D 5 =BG057588.D 10 =BG057589.D 20 =BG057590.D 40 =BG057591.D 50 =BG057592.D 60 =BG057593.D 80 =BG0575
94.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.580	0.525	0.482	0.460	0.440	0.439	0.413	0.477	12.11
3)		Pyridine		1.447	1.473	1.490	1.497	1.397	1.470	1.433	1.458	2.40
4)		n-Nitrosodimet...		0.622	0.589	0.608	0.606	0.553	0.579	0.574	0.590	3.98
5)	S	2-Fluorophenol		1.210	1.174	1.182	1.177	1.093	1.133	1.089	1.151	4.09
6)		Aniline		2.163	2.192	2.270	2.257	2.094	2.190	2.091	2.180	3.24
7)	S	Phenol-d6		1.817	1.803	1.821	1.890	1.717	1.811	1.753	1.802	3.04
8)		2-Chlorophenol		1.326	1.231	1.265	1.272	1.174	1.229	1.155	1.236	4.77
9)		Benzaldehyde		1.287	1.284	1.243	1.220	1.103	1.138	1.081	1.194	7.17
10)	C	Phenol		1.667	1.722	1.768	1.788	1.615	1.713	1.663	1.705	3.59
11)		bis(2-Chloroet...		1.346	1.311	1.329	1.297	1.188	1.249	1.193	1.273	5.03
12)		1,3-Dichlorobe...		1.390	1.335	1.399	1.323	1.272	1.269	1.230	1.317	4.84
13)	C	1,4-Dichlorobe...		1.391	1.397	1.403	1.364	1.269	1.305	1.247	1.340	4.85
14)		1,2-Dichlorobe...		1.392	1.375	1.355	1.324	1.230	1.258	1.213	1.307	5.55
15)		Benzyl Alcohol		1.301	1.405	1.374	1.484	1.348	1.407	1.382	1.386	4.08
16)		2,2'-oxybis(1-...		1.645	1.664	1.661	1.595	1.513	1.524	1.465	1.581	5.09
17)		2-Methylphenol		1.270	1.204	1.303	1.282	1.202	1.280	1.225	1.252	3.28
18)		Hexachloroethane		0.454	0.483	0.475	0.465	0.446	0.451	0.437	0.459	3.60
19)	P	n-Nitroso-di-n...	1.180	1.303	1.218	1.318	1.341	1.181	1.253	1.218	1.252	5.00
20)		3+4-Methylphenols		1.739	1.726	1.803	1.850	1.660	1.798	1.730	1.758	3.58
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.535	0.546	0.554	0.533	0.520	0.539	0.518	0.535	2.44
23)	S	Nitrobenzene-d5		0.411	0.433	0.439	0.436	0.416	0.436	0.424	0.428	2.57
24)		Nitrobenzene		0.412	0.432	0.448	0.441	0.427	0.445	0.435	0.434	2.86
25)		Isophorone		0.794	0.847	0.869	0.855	0.823	0.864	0.835	0.841	3.10
26)	C	2-Nitrophenol		0.169	0.171	0.192	0.196	0.186	0.199	0.192	0.186	6.41
27)		2,4-Dimethylph...		0.294	0.320	0.336	0.331	0.317	0.333	0.323	0.322	4.45
28)		bis(2-Chloroet...		0.420	0.445	0.461	0.443	0.422	0.435	0.426	0.436	3.36
29)	C	2,4-Dichloroph...		0.326	0.321	0.350	0.347	0.335	0.350	0.338	0.338	3.44
30)		1,2,4-Trichlor...		0.369	0.382	0.374	0.364	0.363	0.371	0.356	0.369	2.26
31)		Naphthalene		1.046	1.081	1.110	1.065	1.032	1.054	1.018	1.058	2.92
32)		Benzoic acid			0.103	0.146	0.177	0.176	0.199	0.203	0.167	22.40
33)		4-Chloroaniline		0.451	0.481	0.503	0.497	0.483	0.507	0.484	0.487	3.82
34)	C	Hexachlorobuta...		0.252	0.262	0.267	0.256	0.249	0.253	0.245	0.255	3.06
35)		Caprolactam		0.135	0.137	0.148	0.144	0.135	0.145	0.138	0.140	3.84
36)	C	4-Chloro-3-met...		0.357	0.383	0.408	0.420	0.405	0.421	0.408	0.400	5.70
37)		2-Methylnaphth...		0.779	0.846	0.858	0.847	0.805	0.859	0.818	0.830	3.66
38)		1-Methylnaphth...		0.792	0.791	0.818	0.804	0.771	0.804	0.768	0.792	2.27

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.660	0.670	0.694	0.652	0.630	0.659	0.629	0.656	3.45
41)	P	Hexachlorocycl...		0.012	0.053	0.103	0.123	0.142	0.165	0.100	57.91
42)	S	2,4,6-Tribromo...	0.298	0.318	0.331	0.323	0.313	0.346	0.312	0.320	4.77
43)	C	2,4,6-Trichlor...	0.380	0.405	0.423	0.425	0.412	0.432	0.417	0.413	4.16
44)		2,4,5-Trichlor...	0.456	0.473	0.516	0.506	0.483	0.523	0.489	0.492	4.92
45)	S	2-Fluorobiphenyl	1.463	1.449	1.479	1.382	1.311	1.366	1.293	1.392	5.33
46)		1,1'-Biphenyl	1.475	1.474	1.503	1.427	1.351	1.420	1.356	1.429	4.15
47)		2-Chloronaphth...	1.074	1.100	1.137	1.089	1.020	1.084	1.032	1.077	3.72
48)		2-Nitroaniline	0.353	0.364	0.387	0.387	0.364	0.405	0.380	0.377	4.75
49)		Acenaphthylene	1.843	1.814	1.920	1.833	1.741	1.865	1.746	1.823	3.50
50)		Dimethylphthalate	1.712	1.692	1.722	1.630	1.562	1.673	1.547	1.648	4.29
51)		2,6-Dinitrotol...	0.329	0.343	0.366	0.361	0.343	0.375	0.352	0.353	4.47
52)	C	Acenaphthene	1.144	1.108	1.169	1.119	1.063	1.136	1.070	1.116	3.47
53)		3-Nitroaniline	0.345	0.374	0.384	0.374	0.350	0.390	0.359	0.368	4.63
54)	P	2,4-Dinitrophenol		0.090	0.150	0.182	0.183	0.219	0.213	0.173	27.64
55)		Dibenzofuran	1.953	1.912	2.020	1.902	1.806	1.940	1.810	1.906	4.03
56)	P	4-Nitrophenol		0.197	0.258	0.250	0.243	0.272	0.251	0.245	10.41
57)		2,4-Dinitrotol...	0.499	0.511	0.551	0.535	0.522	0.565	0.515	0.528	4.39
58)		Fluorene	1.636	1.644	1.698	1.600	1.529	1.643	1.518	1.610	4.08
59)		2,3,4,6-Tetrac...	0.421	0.449	0.454	0.479	0.452	0.502	0.470	0.461	5.59
60)		Diethylphthalate	1.793	1.748	1.813	1.698	1.644	1.749	1.599	1.720	4.52
61)		4-Chlorophenyl...	0.889	0.909	0.949	0.892	0.858	0.924	0.859	0.897	3.69
62)		4-Nitroaniline	0.358	0.394	0.434	0.410	0.391	0.418	0.375	0.397	6.52
63)		Azobenzene	1.512	1.533	1.616	1.535	1.472	1.590	1.451	1.530	3.87
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.100	0.121	0.125	0.124	0.133	0.128	0.122	9.48
66)	c	n-Nitrosodiphe...	0.518	0.520	0.539	0.527	0.502	0.524	0.508	0.520	2.36
67)		4-Bromophenyl-...	0.213	0.226	0.229	0.232	0.221	0.227	0.223	0.224	2.77
68)		Hexachlorobenzene	0.232	0.227	0.238	0.233	0.224	0.236	0.229	0.231	2.15
69)		Atrazine	0.245	0.226	0.236	0.221	0.213	0.219	0.203	0.223	6.26
70)	C	Pentachlorophenol		0.088	0.109	0.121	0.123	0.135	0.131	0.118	14.50
71)		Phenanthrene	1.046	1.056	1.061	1.034	0.976	1.027	0.964	1.023	3.75
72)		Anthracene	1.068	1.083	1.096	1.069	1.007	1.042	0.985	1.050	3.88
73)		Carbazole	0.992	0.969	1.000	0.935	0.895	0.926	0.857	0.939	5.54
74)		Di-n-butylphth...	1.232	1.155	1.177	1.100	1.051	1.077	1.014	1.115	6.86
75)	C	Fluoranthene	1.453	1.410	1.404	1.315	1.249	1.278	1.191	1.329	7.24
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.603	0.626	0.673	0.595	0.576	0.589	0.573	0.605	5.72
78)		Pyrene	1.396	1.466	1.480	1.469	1.370	1.435	1.353	1.424	3.60
79)	S	Terphenyl-d14	1.198	1.203	1.205	1.171	1.093	1.145	1.067	1.155	4.82
80)		Butylbenzylpht...	0.511	0.536	0.527	0.525	0.499	0.530	0.503	0.519	2.77
81)		Benzo(a)anthra...	1.388	1.410	1.430	1.412	1.334	1.394	1.345	1.388	2.56
82)		3,3'-Dichlorob...	0.512	0.520	0.527	0.520	0.496	0.515	0.490	0.512	2.65
83)		Chrysene	1.329	1.355	1.346	1.327	1.253	1.314	1.255	1.311	3.15
84)		Bis(2-ethylhex...	0.751	0.754	0.761	0.746	0.710	0.746	0.710	0.740	2.82
85)	c	Di-n-octyl pht...	1.246	1.235	1.266	1.244	1.184	1.229	1.179	1.226	2.65

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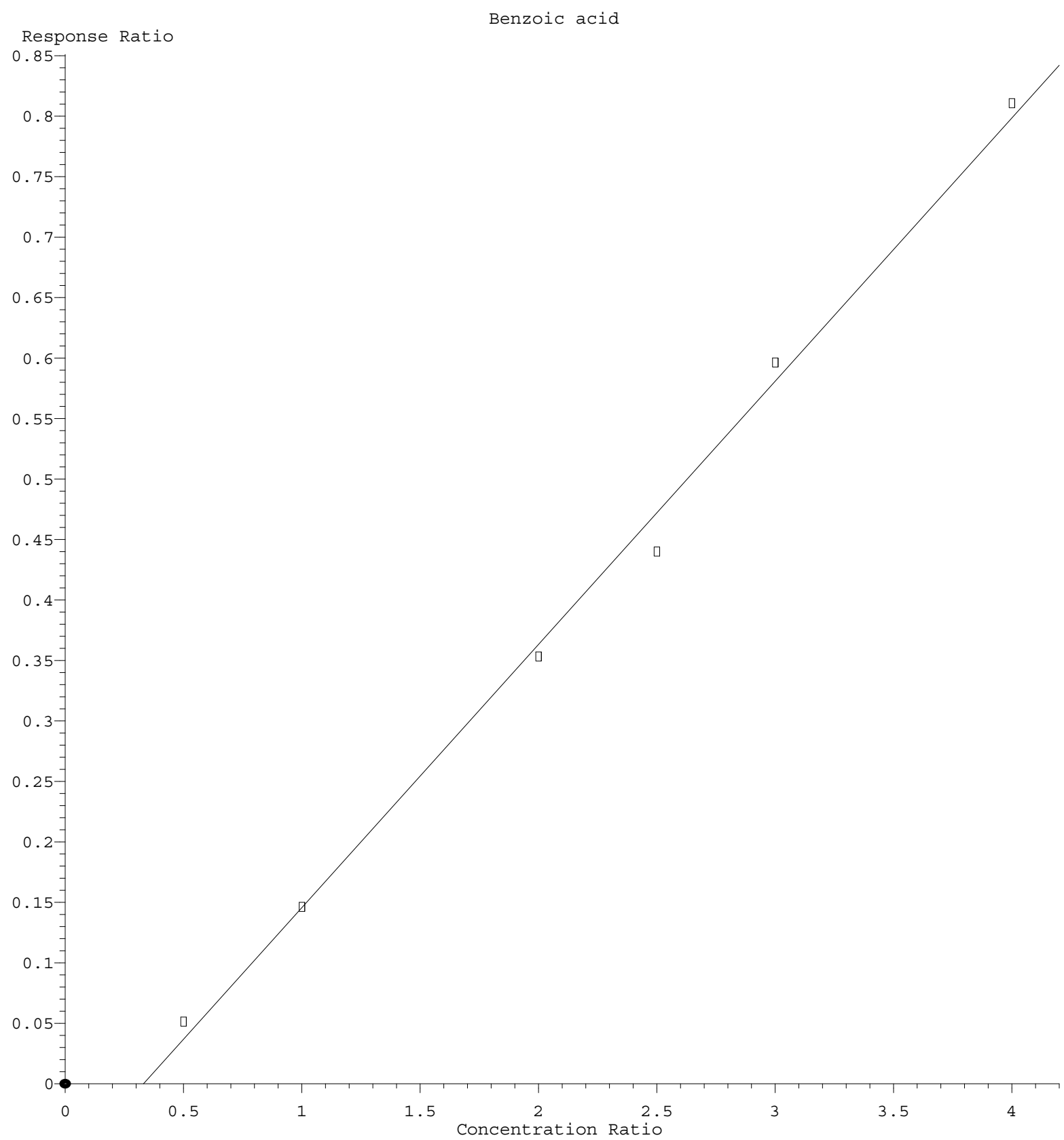
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.393	1.400	1.442	1.410	1.343	1.413	1.360	1.394	2.40
88)		Benzo(b)fluora...	1.223	1.240	1.271	1.223	1.211	1.257	1.193	1.231	2.19
89)		Benzo(k)fluora...	1.247	1.312	1.285	1.267	1.166	1.228	1.191	1.242	4.14
90)	C	Benzo(a)pyrene	1.196	1.213	1.251	1.214	1.159	1.204	1.167	1.201	2.59
91)		Dibenzo(a,h)an...	1.141	1.168	1.206	1.181	1.118	1.167	1.143	1.160	2.49
92)		Benzo(g,h,i)pe...	1.095	1.152	1.173	1.146	1.098	1.148	1.111	1.132	2.68

(#) = Out of Range



Response = 2.178e-001 * Amt - 7.219e-002
Coef of Det (r^2) = 0.995650 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG052723.M
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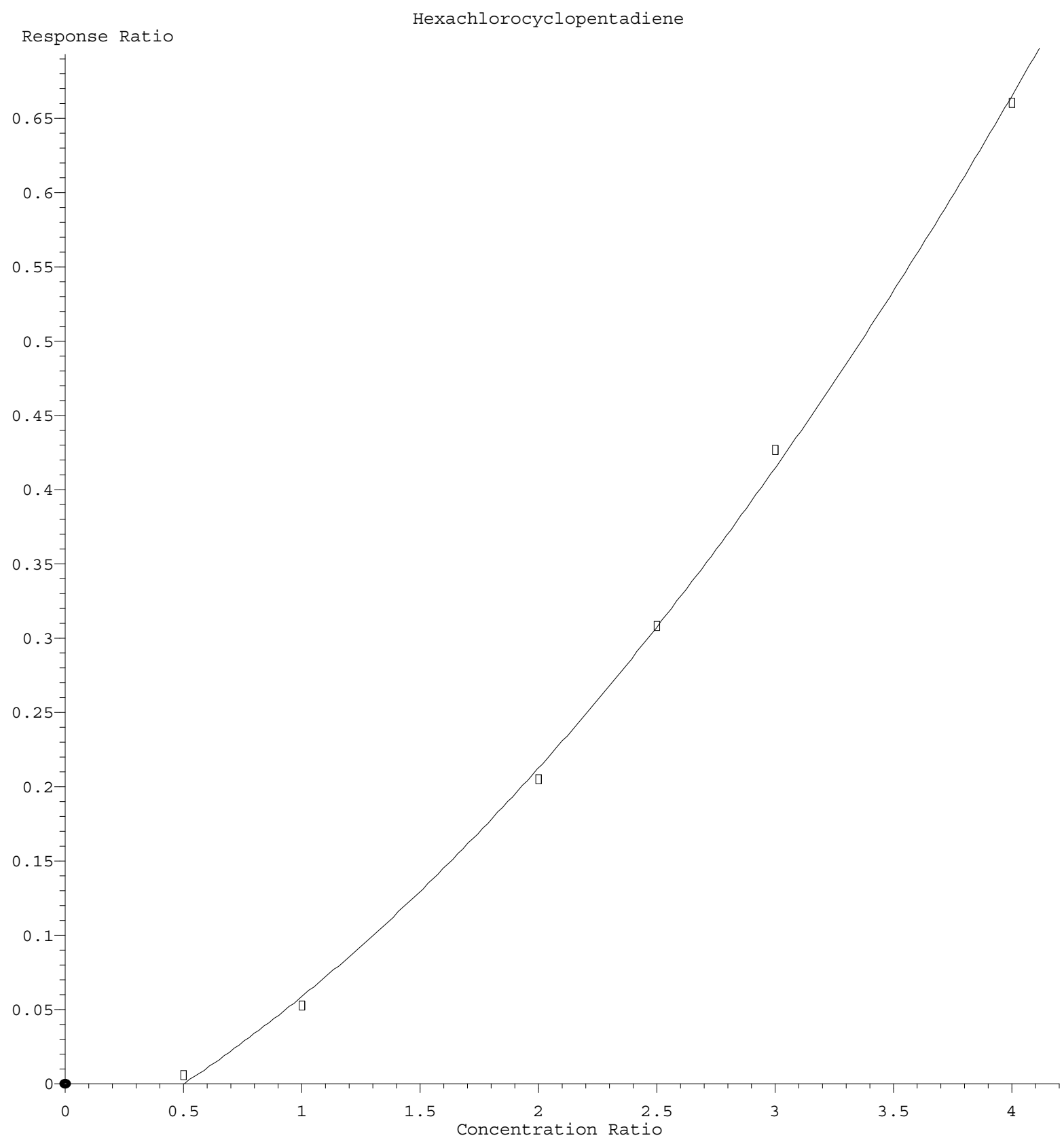

R = 2.415e-002 A*A + 8.137e-002 A - 4.677e-002
Coef of Det (r^2) = 0.999019 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG052723.M
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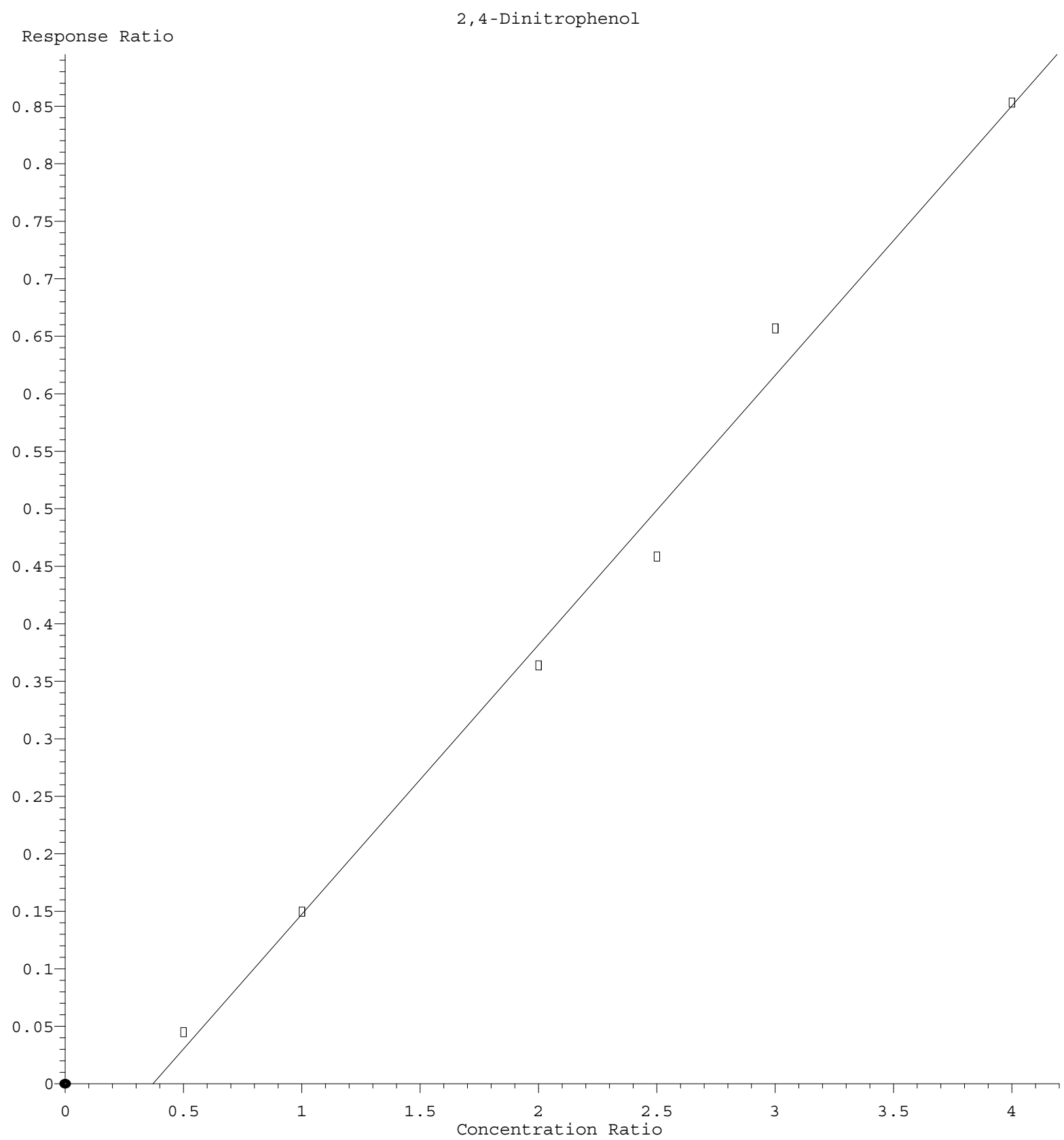

Response = 2.345e-001 * Amt - 8.704e-002
Coef of Det (r^2) = 0.991686 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG052723.M
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