Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG010824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jan 09 04:07:12 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BG060283.D 5 =BG060284.D 10 =BG060285.D 20 =BG060286.D 40 =BG060287.D 50 =BG060288.D 60 =BG060289.D 80 =BG0602
90.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.494	0.476	0.605	0.635	0.553	0.575	0.551	0.555	10.21
3)		Pyridine		1.320	1.283	1.635	1.877	1.610	1.645	1.600	1.567	13.06
4)		n-Nitrosodimet...		0.401	0.419	0.525	0.558	0.505	0.517	0.508	0.490	11.80
5)	S	2-Fluorophenol		0.928	1.346	1.305	1.143	1.261	1.292	1.236	1.216	11.68
6)		Aniline		1.743	1.764	1.651	1.944	1.701	1.929	1.867	1.800	6.35
7)	S	Phenol-d6		1.740	1.825	1.711	2.103	1.696	1.717	1.812	1.801	7.91
8)		2-Chlorophenol		1.166	1.244	1.131	1.238	1.157	1.267	1.232	1.205	4.34
9)		Benzaldehyde		1.220	1.195	1.000	1.126	0.912	0.885	0.897	1.034	14.02
10)	C	Phenol		1.683	1.817	1.714	2.105	1.718	1.733	1.868	1.805	8.15
11)		bis(2-Chloroet...		1.497	1.447	1.382	1.496	1.415	1.545	1.515	1.471	3.97
12)		1,3-Dichlorobe...		1.377	1.558	1.591	1.526	1.527	1.518	1.490	1.513	4.48
13)	C	1,4-Dichlorobe...		1.575	1.479	1.584	1.517	1.519	1.545	1.523	1.535	2.38
14)		1,2-Dichlorobe...		1.593	1.561	1.599	1.759	1.523	1.525	1.488	1.578	5.64
15)		Benzyl Alcohol		0.981	1.128	1.150	1.255	1.210	1.232	1.204	1.166	7.96
16)		2,2'-oxybis(1-...		1.742	1.757	1.808	1.998	1.724	1.765	1.704	1.785	5.57
17)		2-Methylphenol		1.105	1.155	1.253	1.438	1.264	1.254	1.210	1.240	8.50
18)		Hexachloroethane		0.587	0.517	0.479	0.601	0.529	0.527	0.526	0.538	7.83
19)	P	n-Nitroso-di-n...	1.155	1.195	1.215	1.128	1.496	1.275	1.278	1.228	1.246	9.12
20)		3+4-Methylphenols		1.483	1.626	1.521	1.958	1.726	1.721	1.668	1.672	9.40
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.480	0.564	0.500	0.555	0.573	0.575	0.601	0.550	7.94
23)	S	Nitrobenzene-d5		0.407	0.414	0.377	0.425	0.442	0.442	0.458	0.424	6.40
24)		Nitrobenzene		0.427	0.421	0.389	0.445	0.456	0.459	0.477	0.439	6.70
25)		Isophorone		0.877	0.870	0.760	0.858	0.861	0.854	0.875	0.851	4.80
26)	C	2-Nitrophenol		0.139	0.144	0.138	0.165	0.176	0.179	0.189	0.161	12.97
27)		2,4-Dimethylph...		0.197	0.206	0.185	0.219	0.223	0.224	0.239	0.213	8.62
28)		bis(2-Chloroet...		0.525	0.522	0.471	0.518	0.533	0.534	0.535	0.520	4.28
29)	C	2,4-Dichloroph...		0.314	0.330	0.309	0.353	0.364	0.373	0.376	0.346	8.11
30)		1,2,4-Trichlor...		0.434	0.429	0.386	0.431	0.436	0.448	0.447	0.430	4.82
31)		Naphthalene		1.079	1.090	1.044	1.030	1.033	1.046	1.016	1.048	2.56
32)		Benzoic acid			0.056	0.108	0.168	0.188	0.189	0.217	0.154	39.21
33)		4-Chloroaniline		0.356	0.423	0.392	0.398	0.411	0.419	0.431	0.404	6.30
34)	C	Hexachlorobuta...		0.278	0.305	0.268	0.261	0.273	0.286	0.290	0.280	5.29
35)		Caprolactam		0.105	0.118	0.107	0.110	0.111	0.112	0.117	0.111	4.22
36)	C	4-Chloro-3-met...		0.315	0.359	0.346	0.351	0.355	0.363	0.369	0.351	4.98
37)		2-Methylnaphth...		0.770	0.849	0.763	0.751	0.765	0.776	0.769	0.778	4.18
38)		1-Methylnaphth...		0.781	0.881	0.778	0.745	0.746	0.772	0.763	0.781	5.93

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.759	0.672	0.764	0.680	0.678	0.712	0.707	0.710	5.35
41)	P	Hexachlorocycl...	0.179	0.191	0.249	0.244	0.250	0.266	0.270	0.236	15.24
42)	S	2,4,6-Tribromo...	0.302	0.275	0.292	0.293	0.293	0.304	0.301	0.294	3.32
43)	C	2,4,6-Trichlor...	0.441	0.400	0.487	0.445	0.444	0.477	0.471	0.452	6.52
44)		2,4,5-Trichlor...	0.476	0.425	0.537	0.495	0.504	0.530	0.524	0.499	7.81
45)	S	2-Fluorobiphenyl	1.776	1.558	1.707	1.346	1.288	1.259	1.136	1.439	16.93
46)		1,1'-Biphenyl	1.650	1.491	1.651	1.450	1.448	1.483	1.395	1.510	6.68
47)		2-Chloronaphth...	1.395	1.253	1.394	1.252	1.239	1.307	1.214	1.293	5.75
48)		2-Nitroaniline	0.280	0.267	0.335	0.329	0.336	0.355	0.354	0.322	10.80
49)		Acenaphthylene	1.826	1.804	1.895	1.761	1.753	1.758	1.671	1.781	3.94
50)		Dimethylphthalate	1.567	1.550	1.710	1.497	1.477	1.499	1.399	1.528	6.35
51)		2,6-Dinitrotol...	0.272	0.293	0.327	0.338	0.345	0.360	0.349	0.326	9.82
52)	C	Acenaphthene	1.160	1.099	1.110	1.092	1.086	1.124	1.092	1.109	2.34
53)		3-Nitroaniline	0.258	0.264	0.295	0.304	0.312	0.322	0.326	0.297	9.12
54)	P	2,4-Dinitrophenol		0.073	0.124	0.165	0.177	0.187	0.203	0.155	31.08
55)		Dibenzofuran	2.025	1.940	1.944	1.815	1.783	1.799	1.654	1.851	6.77
56)	P	4-Nitrophenol	0.153	0.182	0.217	0.243	0.243	0.246	0.260	0.220	17.87
57)		2,4-Dinitrotol...	0.368	0.399	0.457	0.458	0.468	0.492	0.489	0.447	10.39
58)		Fluorene	1.747	1.548	1.573	1.493	1.468	1.493	1.409	1.533	7.08
59)		2,3,4,6-Tetrac...	0.395	0.390	0.419	0.424	0.428	0.455	0.452	0.423	5.93
60)		Diethylphthalate	1.541	1.507	1.527	1.454	1.434	1.445	1.363	1.467	4.23
61)		4-Chlorophenyl...	0.970	0.848	0.837	0.806	0.810	0.839	0.803	0.845	6.87
62)		4-Nitroaniline	0.292	0.297	0.306	0.323	0.329	0.331	0.335	0.316	5.57
63)		Azobenzene	1.670	1.468	1.507	1.457	1.449	1.464	1.373	1.484	6.16
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.082	0.099	0.113	0.121	0.124	0.125	0.111	15.48
66)	c	n-Nitrosodiphe...	0.511	0.535	0.546	0.534	0.539	0.539	0.513	0.531	2.54
67)		4-Bromophenyl-...	0.212	0.213	0.219	0.220	0.222	0.228	0.223	0.220	2.52
68)		Hexachlorobenzene	0.256	0.255	0.267	0.257	0.260	0.264	0.263	0.260	1.83
69)		Atrazine	0.194	0.208	0.214	0.198	0.201	0.197	0.189	0.200	4.21
70)	C	Pentachlorophenol	0.096	0.111	0.136	0.151	0.160	0.161	0.167	0.140	19.54
71)		Phenanthrene	1.044	1.052	1.059	0.960	0.936	0.901	0.815	0.967	9.46
72)		Anthracene	1.031	1.032	1.059	0.965	0.931	0.913	0.825	0.965	8.58
73)		Carbazole	0.950	0.977	0.992	0.916	0.887	0.855	0.792	0.910	7.81
74)		Di-n-butylphth...	0.978	1.040	1.054	0.955	0.907	0.855	0.765	0.936	10.99
75)	C	Fluoranthene	1.328	1.328	1.345	1.131	1.077	1.015	0.903	1.161	15.14
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.352	0.430	0.440	0.446	0.464	0.460	0.449	0.435	8.78
78)		Pyrene	1.447	1.455	1.452	1.222	1.183	1.157	1.023	1.277	13.64
79)	S	Terphenyl-d14	1.190	1.163	1.075	0.782	0.725	0.692		0.938	24.47
80)		Butylbenzylpht...	0.381	0.418	0.443	0.448	0.459	0.472	0.456	0.439	7.01
81)		Benzo(a)anthra...	1.372	1.377	1.343	1.213	1.166	1.156	1.039	1.238	10.45
82)		3,3'-Dichlorob...	0.429	0.466	0.486	0.484	0.485	0.489	0.479	0.474	4.50
83)		Chrysene	1.357	1.338	1.329	1.181	1.145	1.134	1.039	1.218	10.15
84)		Bis(2-ethylhex...	0.602	0.645	0.695	0.679	0.681	0.694	0.652	0.664	5.01
85)	c	Di-n-octyl pht...	1.011	1.063	1.128	1.108	1.099	1.097	1.026	1.076	4.08

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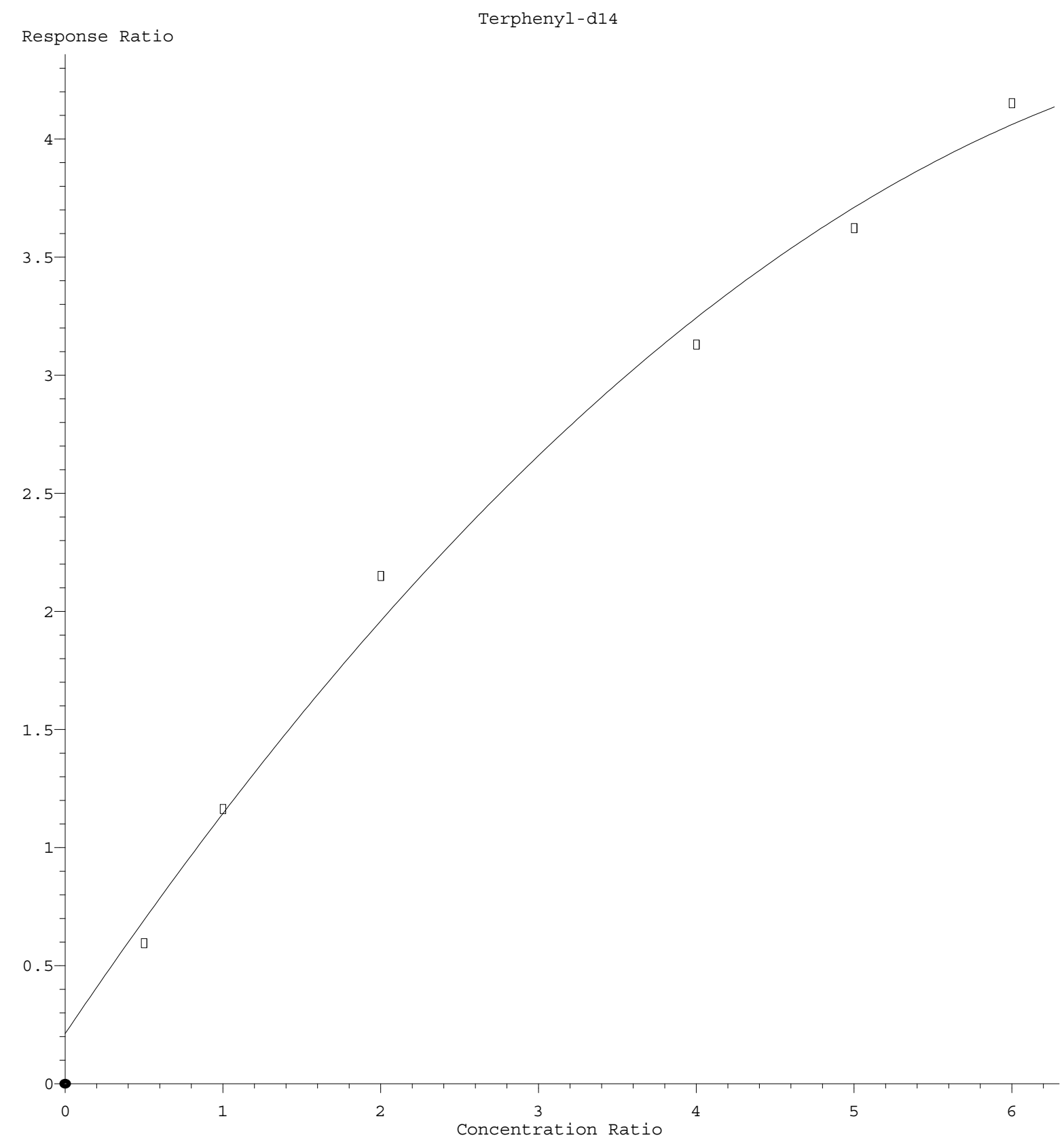
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.307	1.350	1.390	1.384	1.422	1.446	1.434	1.391	3.54
88)		Benzo(b)fluora...	1.186	1.205	1.201	1.196	1.174	1.186	1.124	1.182	2.34
89)		Benzo(k)fluora...	1.168	1.175	1.257	1.186	1.156	1.159	1.061	1.166	4.96
90)	C	Benzo(a)pyrene	1.050	1.063	1.092	1.066	1.072	1.086	1.043	1.067	1.67
91)		Dibenzo(a,h)an...	1.080	1.087	1.136	1.149	1.159	1.179	1.161	1.136	3.37
92)		Benzo(g,h,i)pe...	1.133	1.136	1.161	1.160	1.171	1.200	1.187	1.164	2.13

(#) = Out of Range



R = -5.805e-002 A*A + 9.897e-001 A + 2.128e-001
Coef of Det (r^2) = 0.992471 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG010824.M
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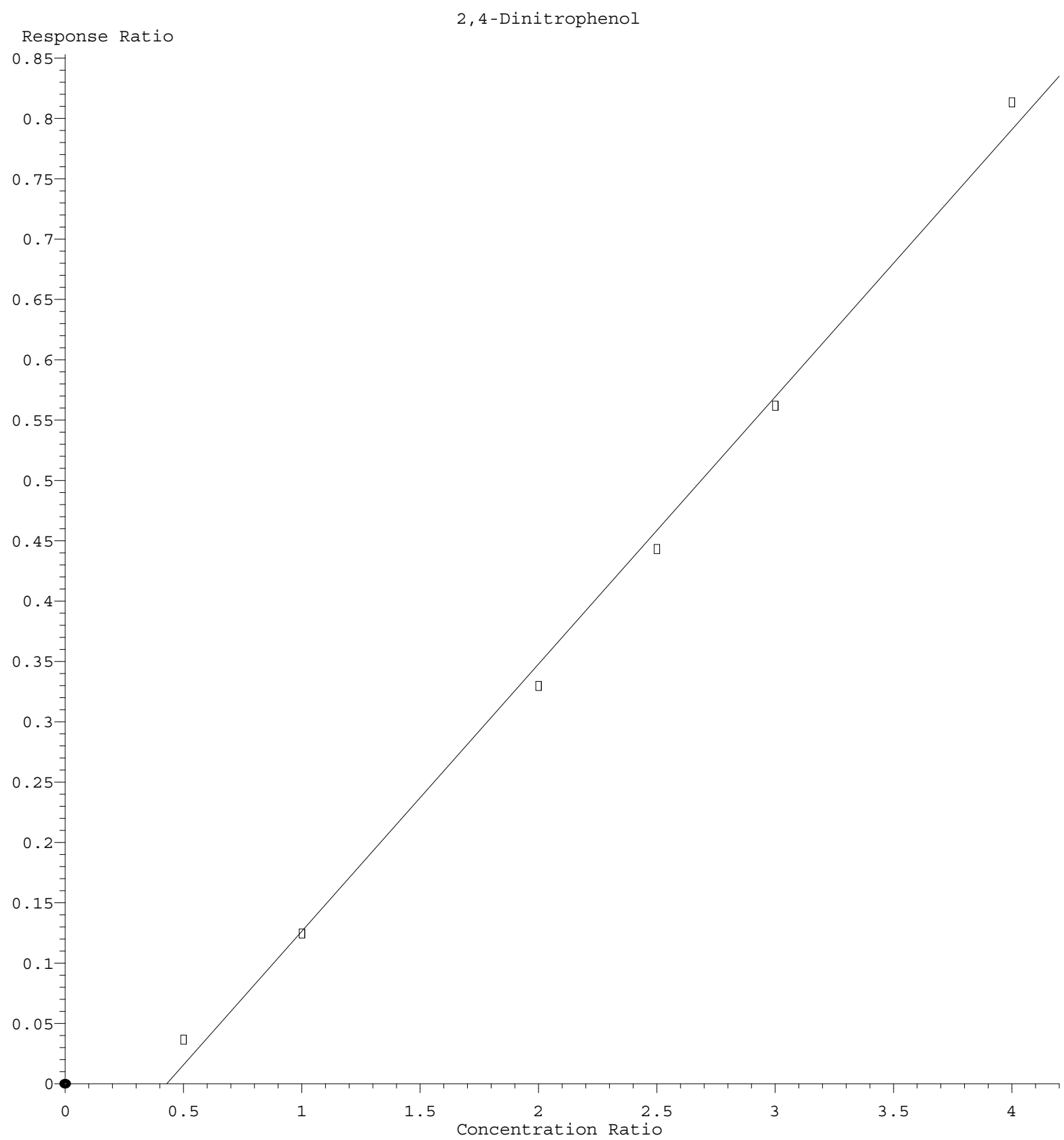

Response = 2.215e-001 * Amt - 9.510e-002
Coef of Det (r^2) = 0.996169 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG010824.M
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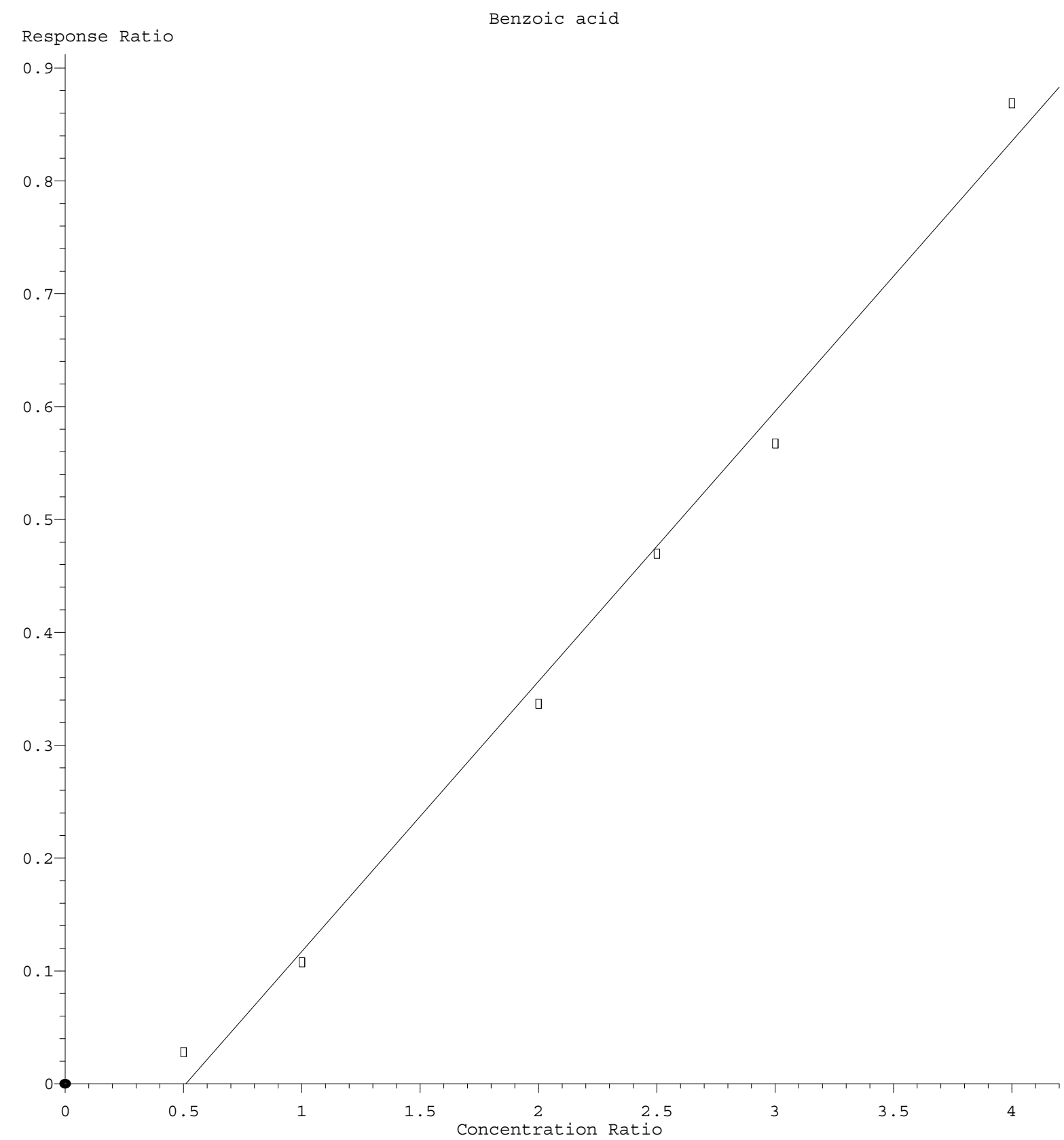

Response = 2.392e-001 * Amt - 1.220e-001
Coef of Det (r^2) = 0.992913 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG010824.M
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