Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG121322.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Dec 14 02:24:06 2022
Response Via : Initial Calibration

Calibration Files
2.5 =BG055946.D 5 =BG055947.D 10 =BG055948.D 20 =BG055949.D 40 =BG055950.D 50 =BG055951.D 60 =BG055952.D 80 =BG0559
53.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.187	0.253	0.237	0.257	0.275	0.252	0.276	0.248	12.15
3)		Pyridine		0.706	0.710	0.869	0.866	0.817	0.855	0.895	0.817	9.56
4)		n-Nitrosodimet...		0.649	0.756	0.797	0.738	0.717	0.714	0.768	0.734	6.46
5)	S	2-Fluorophenol		0.828	0.866	0.881	0.850	0.826	0.852	0.867	0.853	2.40
6)		Aniline		1.181	1.367	1.353	1.355	1.219	1.367	1.351	1.313	5.97
7)	S	Phenol-d6		1.091	1.083	1.091	1.091	1.046	1.140	1.136	1.097	2.95
8)		2-Chlorophenol		1.072	1.104	1.121	1.102	1.065	1.122	1.116	1.100	2.10
9)		Benzaldehyde		0.723	0.878	0.726	0.685	0.614	0.629	0.566	0.689	14.83
10)	C	Phenol		1.167	1.223	1.206	1.206	1.138	1.248	1.215	1.200	3.06
11)		bis(2-Chloroet...		0.806	0.889	0.731	0.777	0.720	0.774	0.776	0.782	7.12
12)		1,3-Dichlorobe...		1.463	1.513	1.458	1.418	1.347	1.384	1.380	1.423	4.07
13)	C	1,4-Dichlorobe...		1.461	1.595	1.476	1.408	1.371	1.435	1.435	1.455	4.89
14)		1,2-Dichlorobe...		1.417	1.493	1.411	1.397	1.288	1.360	1.365	1.390	4.53
15)		Benzyl Alcohol		1.103	1.141	1.172	1.130	1.085	1.219	1.128	1.140	3.90
16)		2,2'-oxybis(1-...		1.083	1.045	1.038	0.987	0.961	1.026	0.984	1.018	4.18
17)		2-Methylphenol		0.876	0.977	0.947	0.957	0.900	0.990	0.965	0.944	4.40
18)		Hexachloroethane		0.450	0.423	0.457	0.453	0.440	0.429	0.438	0.442	2.86
19)	P	n-Nitroso-di-n...	0.663	0.822	0.821	0.835	0.779	0.725	0.852	0.792	0.786	8.09
20)		3+4-Methylphenols		1.245	1.376	1.422	1.353	1.273	1.420	1.346	1.348	5.04
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.508	0.490	0.486	0.506	0.482	0.498	0.500	0.496	2.03
23)	S	Nitrobenzene-d5		0.237	0.253	0.272	0.292	0.303	0.322	0.324	0.286	11.80
24)		Nitrobenzene		0.225	0.249	0.267	0.301	0.309	0.334	0.331	0.288	14.54
25)		Isophorone		0.571	0.572	0.605	0.617	0.587	0.640	0.608	0.600	4.16
26)	C	2-Nitrophenol		0.151	0.148	0.166	0.175	0.177	0.190	0.186	0.171	9.63
27)		2,4-Dimethylph...		0.285	0.295	0.289	0.295	0.273	0.291	0.278	0.286	2.97
28)		bis(2-Chloroet...		0.269	0.248	0.274	0.259	0.261	0.276	0.269	0.265	3.71
29)	C	2,4-Dichloroph...		0.367	0.407	0.396	0.411	0.400	0.437	0.428	0.407	5.59
30)		1,2,4-Trichlor...		0.500	0.541	0.530	0.525	0.522	0.537	0.544	0.528	2.84
31)		Naphthalene		0.999	1.069	1.047	1.050	1.045	1.095	1.082	1.055	2.96
32)		Benzoic acid			0.127	0.205	0.243	0.235	0.256	0.259	0.221	22.54
33)		4-Chloroaniline		0.420	0.450	0.457	0.469	0.431	0.477	0.463	0.452	4.55
34)	C	Hexachlorobuta...		0.503	0.512	0.504	0.475	0.499	0.492	0.493	0.497	2.39
35)		Caprolactam			0.107	0.124	0.114	0.105	0.120	0.110	0.113	6.62
36)	C	4-Chloro-3-met...		0.321	0.363	0.388	0.403	0.373	0.419	0.401	0.381	8.55
37)		2-Methylnaphth...		0.921	0.915	0.910	0.938	0.912	0.979	0.952	0.932	2.77
38)		1-Methylnaphth...		0.869	0.925	0.907	0.910	0.866	0.959	0.921	0.908	3.56

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.825	0.822	0.843	0.858	0.847	0.847	0.864	0.844	1.85
41)	P	Hexachlorocycl...	0.404	0.449	0.466	0.483	0.521	0.506	0.523	0.479	9.01
42)	S	2,4,6-Tribromo...	0.401	0.426	0.497	0.520	0.477	0.539	0.517	0.482	10.70
43)	C	2,4,6-Trichlor...	0.458	0.447	0.495	0.519	0.519	0.524	0.536	0.500	6.92
44)		2,4,5-Trichlor...	0.484	0.535	0.581	0.585	0.566	0.600	0.592	0.563	7.24
45)	S	2-Fluorobiphenyl	1.409	1.393	1.454	1.437	1.413	1.442	1.434	1.426	1.51
46)		1,1'-Biphenyl	1.320	1.313	1.389	1.367	1.330	1.380	1.390	1.356	2.47
47)		2-Chloronaphth...	1.095	1.049	1.116	1.122	1.084	1.128	1.118	1.102	2.55
48)		2-Nitroaniline	0.143	0.154	0.191	0.213	0.220			0.184	18.63
49)		Acenaphthylene	1.668	1.746	1.810	1.776	1.703	1.822	1.783	1.758	3.21
50)		Dimethylphthalate	1.658	1.725	1.817	1.794	1.621	1.778	1.712	1.729	4.17
51)		2,6-Dinitrotol...	0.221	0.237	0.277	0.308	0.295			0.268	13.93
52)	C	Acenaphthene	1.102	1.148	1.208	1.210	1.138	1.236	1.221	1.180	4.29
53)		3-Nitroaniline	0.238	0.251	0.274	0.289	0.266	0.297	0.291	0.272	8.16
54)	P	2,4-Dinitrophenol		0.166	0.199	0.209	0.187	0.218	0.215	0.199	9.90
55)		Dibenzofuran	1.925	1.873	2.048	2.066	1.906	2.051	2.026	1.985	4.07
56)	P	4-Nitrophenol	0.163	0.190	0.230	0.239	0.220	0.243	0.241	0.218	13.98
57)		2,4-Dinitrotol...	0.310	0.359	0.401	0.433	0.409	0.462	0.454	0.404	13.39
58)		Fluorene	1.566	1.622	1.684	1.667	1.537	1.663	1.620	1.623	3.37
59)		2,3,4,6-Tetrac...	0.552	0.586	0.654	0.701	0.643	0.699	0.669	0.643	8.70
60)		Diethylphthalate	1.670	1.689	1.782	1.760	1.540	1.749	1.640	1.690	4.96
61)		4-Chlorophenyl...	1.066	1.097	1.122	1.147	1.047	1.159	1.100	1.105	3.68
62)		4-Nitroaniline	0.227	0.274	0.312	0.323	0.295	0.323	0.320	0.296	11.96
63)		Azobenzene	1.009	1.013	1.075	1.053	0.971	1.069	1.011	1.029	3.68
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.084	0.081	0.093	0.100	0.097	0.104	0.109	0.096	10.55
66)	c	n-Nitrosodiphe...	0.531	0.506	0.523	0.522	0.514	0.534	0.539	0.524	2.24
67)		4-Bromophenyl-...	0.287	0.283	0.297	0.290	0.291	0.304	0.300	0.293	2.51
68)		Hexachlorobenzene	0.349	0.355	0.365	0.360	0.358	0.370	0.370	0.361	2.12
69)		Atrazine	0.265	0.265	0.261	0.236	0.221	0.214	0.200	0.237	11.29
70)	C	Pentachlorophenol	0.174	0.187	0.210	0.214	0.211	0.224	0.226	0.206	9.34
71)		Phenanthrene	1.036	1.043	1.053	1.052	1.029	1.059	1.065	1.048	1.21
72)		Anthracene	1.072	1.034	1.055	1.036	0.994	1.033	1.034	1.037	2.29
73)		Carbazole	0.911	0.853	0.886	0.846	0.815	0.835	0.840	0.855	3.83
74)		Di-n-butylphth...	1.032	0.995	1.052	0.998	0.941	0.967	0.977	0.995	3.81
75)	C	Fluoranthene	1.528	1.504	1.540	1.459	1.392	1.420	1.430	1.468	3.91
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.542	0.426	0.330	0.357	0.254	0.272	0.277	0.351	29.37
78)		Pyrene	1.161	1.203	1.204	1.287	1.161	1.238	1.217	1.210	3.63
79)	S	Terphenyl-d14	1.104	1.126	1.144	1.196	1.082	1.148	1.123	1.132	3.19
80)		Butylbenzylpht...	0.314	0.318	0.339	0.369	0.345	0.358	0.358	0.343	6.11
81)		Benzo(a)anthra...	1.395	1.366	1.418	1.487	1.363	1.421	1.402	1.407	2.97
82)		3,3'-Dichlorob...	0.494	0.501	0.514	0.542	0.490	0.507	0.496	0.506	3.50
83)		Chrysene	1.292	1.300	1.317	1.401	1.273	1.331	1.318	1.319	3.11
84)		Bis(2-ethylhex...	0.477	0.492	0.499	0.543	0.503	0.527	0.525	0.509	4.50
85)	c	Di-n-octyl pht...	0.775	0.813	0.881	0.925	0.868	0.903	0.886	0.864	6.08

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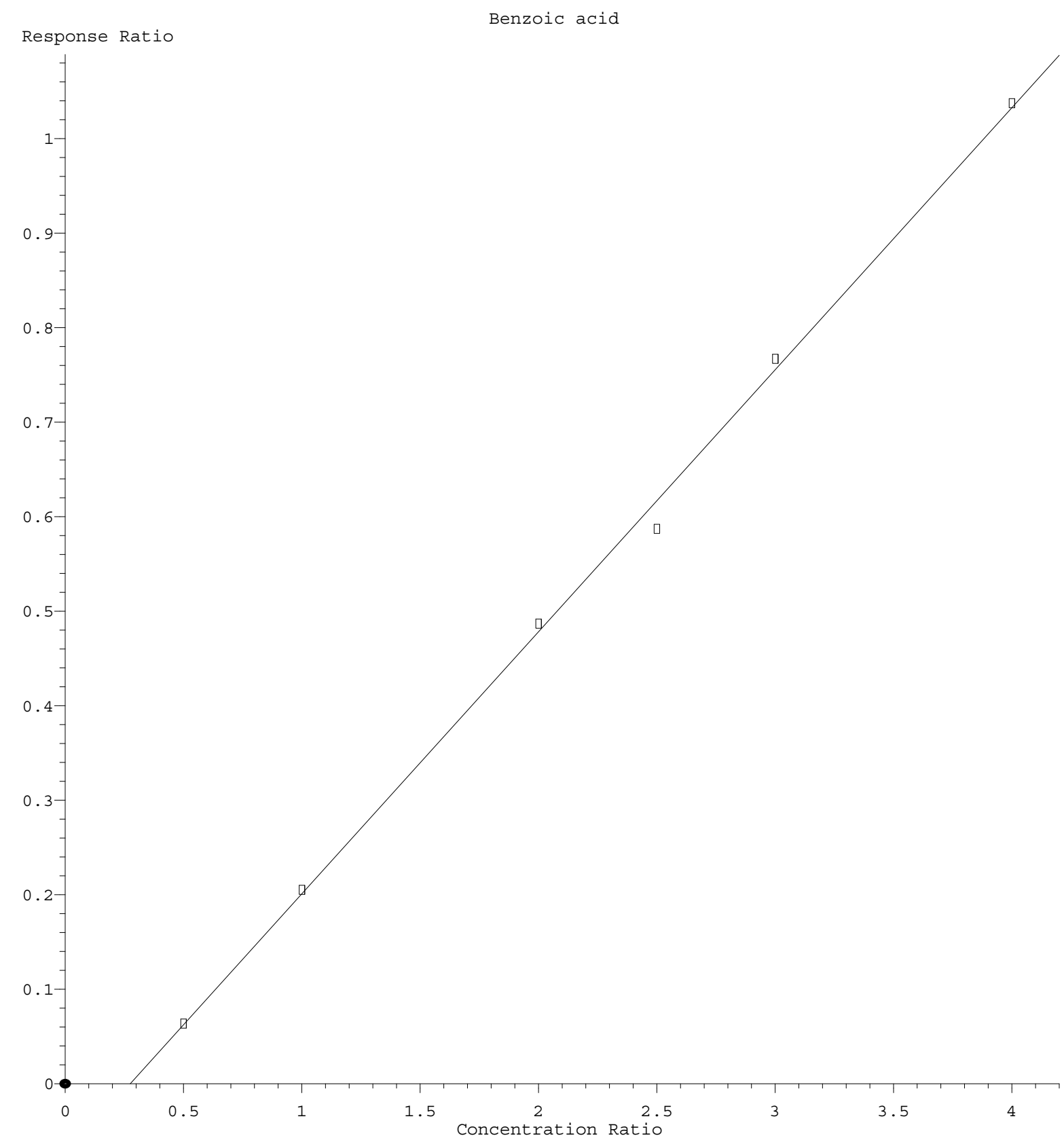
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.598	1.600	1.618	1.598	1.580	1.635	1.629	1.608	1.23
88)		Benzo(b)fluora...	1.247	1.289	1.325	1.293	1.271	1.312	1.324	1.294	2.22
89)		Benzo(k)fluora...	1.284	1.300	1.296	1.282	1.279	1.314	1.285	1.291	0.96
90)	C	Benzo(a)pyrene	1.070	1.103	1.106	1.091	1.082	1.105	1.102	1.094	1.28
91)		Dibenzo(a,h)an...	1.343	1.362	1.364	1.331	1.311	1.366	1.346	1.346	1.52
92)		Benzo(g,h,i)pe...	1.319	1.310	1.302	1.284	1.272	1.317	1.308	1.301	1.34

(#) = Out of Range



Response = 2.772e-001 * Amt - 7.615e-002
Coef of Det (r^2) = 0.998239 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG121322.M
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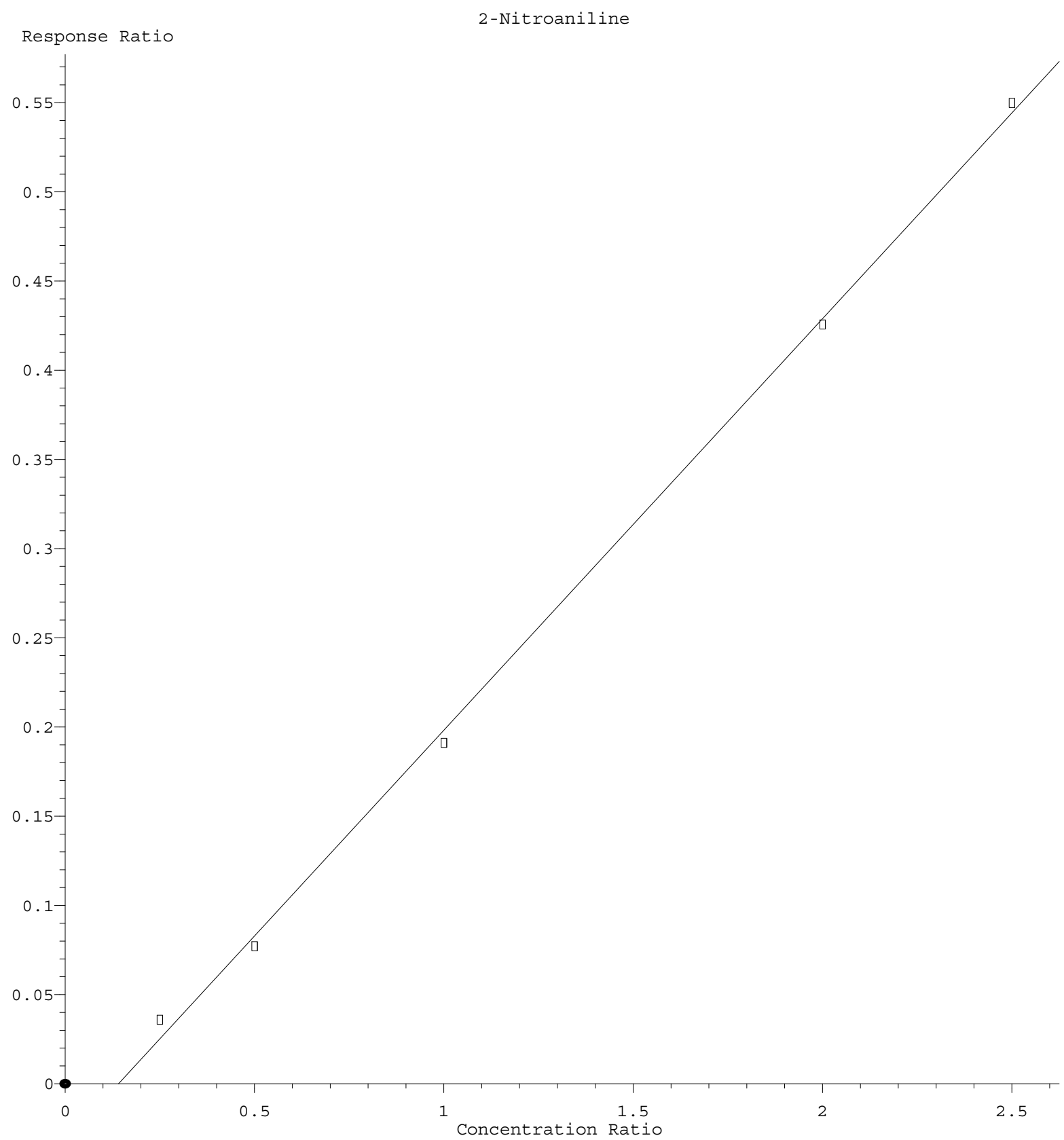

Response = 2.307e-001 * Amt - 3.246e-002
Coef of Det (r^2) = 0.998803 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG121322.M
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