Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP101525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 15 23:48:51 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP025972.D 5 =BP025973.D 10 =BP025974.D 20 =BP025975.D 40 =BP025976.D 50 =BP025977.D 60 =BP025978.D 80 =BP0259
79.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.537	0.474	0.517	0.543	0.457	0.432	0.423	0.483	10.26
3)		Pyridine		1.214	1.221	1.434	1.530	1.383	1.331	1.326	1.348	8.37
4)		n-Nitrosodimet...			0.509	0.620	0.662	0.598	0.581	0.574	0.591	8.65
5)	S	2-Fluorophenol		1.057	1.111	1.309	1.380	1.262	1.215	1.204	1.220	9.11
6)		Aniline		1.926	1.968	2.505	2.540	2.378	2.322	2.314	2.279	10.65
7)	S	Phenol-d6		1.410	1.497	1.858	1.913	1.794	1.725	1.720	1.702	10.86
8)		2-Chlorophenol		1.269	1.249	1.522	1.578	1.444	1.423	1.411	1.414	8.57
9)		Benzaldehyde			1.102	0.857	0.981	0.902	0.850	0.760	0.908	13.11
10)	C	Phenol		1.257	1.434	1.901	1.974	1.853	1.810	1.802	1.719	15.50
11)		bis(2-Chloroet...		1.121	1.297	1.554	1.576	1.457	1.416	1.390	1.401	11.15
12)		1,3-Dichlorobe...		1.574	1.442	1.681	1.736	1.546	1.512	1.479	1.567	6.81
13)	C	1,4-Dichlorobe...		1.549	1.475	1.726	1.775	1.601	1.546	1.507	1.597	7.05
14)		1,2-Dichlorobe...		1.566	1.419	1.678	1.719	1.556	1.508	1.489	1.562	6.76
15)		Benzyl Alcohol			1.171	1.537	1.550	1.505	1.468	1.463	1.449	9.70
16)		2,2'-oxybis(1-...		2.035	2.007	2.364	2.359	2.174	2.102	2.066	2.158	6.88
17)		2-Methylphenol		0.986	1.093	1.339	1.381	1.301	1.259	1.265	1.232	11.48
18)		Hexachloroethane		0.611	0.568	0.644	0.679	0.606	0.582	0.575	0.609	6.58
19)	P	n-Nitroso-di-n...	1.110	0.985	1.147	1.425	1.336	1.279	1.226	1.201	1.214	11.31
20)		3+4-Methylphenols			1.413	1.848	1.856	1.778	1.699	1.706	1.717	9.50
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.496	0.503	0.592	0.608	0.557	0.535	0.516	0.544	8.02
23)	S	Nitrobenzene-d5		0.401	0.410	0.480	0.505	0.455	0.439	0.425	0.445	8.44
24)		Nitrobenzene		0.352	0.356	0.426	0.449	0.408	0.394	0.384	0.396	8.94
25)		Isophorone		0.724	0.732	0.874	0.869	0.830	0.795	0.771	0.799	7.61
26)	C	2-Nitrophenol		0.146	0.164	0.205	0.220	0.208	0.202	0.196	0.192	13.86
27)		2,4-Dimethylph...		0.270	0.292	0.348	0.367	0.345	0.329	0.323	0.325	10.41
28)		bis(2-Chloroet...		0.403	0.435	0.514	0.520	0.482	0.468	0.451	0.467	9.02
29)	C	2,4-Dichloroph...		0.253	0.285	0.349	0.363	0.348	0.336	0.332	0.324	12.23
30)		1,2,4-Trichlor...		0.364	0.338	0.381	0.409	0.368	0.358	0.346	0.366	6.44
31)		Naphthalene		1.062	1.013	1.156	1.189	1.079	1.046	1.009	1.079	6.41
32)		Benzoic acid			0.180	0.218	0.244	0.258	0.260	0.252	0.235	13.12
33)		4-Chloroaniline		0.358	0.403	0.508	0.513	0.491	0.475	0.460	0.458	12.61
34)	C	Hexachlorobuta...		0.243	0.227	0.252	0.268	0.242	0.236	0.228	0.242	5.87
35)		Caprolactam			0.088	0.129	0.117	0.122	0.121	0.114	0.115	12.45
36)	C	4-Chloro-3-met...		0.321	0.330	0.426	0.407	0.405	0.390	0.380	0.380	10.49
37)		2-Methylnaphth...		0.676	0.655	0.775	0.757	0.724	0.689	0.668	0.706	6.57
38)		1-Methylnaphth...		0.715	0.699	0.819	0.795	0.761	0.724	0.702	0.745	6.36

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.617	0.607	0.679	0.750	0.648	0.634	0.624	0.651	7.60
41)	P	Hexachlorocycl...		0.192	0.288	0.379	0.365	0.366	0.384	0.329	23.02
42)	S	2,4,6-Tribromo...	0.237	0.220	0.298	0.290	0.285	0.283	0.272	0.269	10.86
43)	C	2,4,6-Trichlor...	0.335	0.363	0.438	0.476	0.436	0.425	0.420	0.413	11.66
44)		2,4,5-Trichlor...	0.384	0.380	0.474	0.518	0.477	0.459	0.459	0.450	11.17
45)	S	2-Fluorobiphenyl	1.596	1.522	1.682	1.767	1.522	1.430	1.404	1.560	8.40
46)		1,1'-Biphenyl	1.469	1.431	1.596	1.705	1.498	1.463	1.413	1.511	6.89
47)		2-Chloronaphth...	1.148	1.119	1.250	1.328	1.169	1.139	1.116	1.181	6.71
48)		2-Nitroaniline	0.296	0.303	0.407	0.415	0.394	0.383	0.379	0.368	13.18
49)		Acenaphthylene	1.859	1.766	2.064	2.131	1.918	1.828	1.804	1.910	7.21
50)		Dimethylphthalate	1.494	1.328	1.681	1.615	1.534	1.495	1.436	1.512	7.63
51)		2,6-Dinitrotol...	0.290	0.278	0.364	0.361	0.340	0.332	0.320	0.326	10.15
52)	C	Acenaphthene	1.101	1.025	1.191	1.216	1.099	1.057	1.030	1.103	6.83
53)		3-Nitroaniline	0.250	0.267	0.366	0.360	0.353	0.346	0.334	0.325	14.41
54)	P	2,4-Dinitrophenol		0.092	0.192	0.200	0.216	0.220	0.216	0.190	25.76
55)		Dibenzofuran	1.773	1.645	1.935	1.953	1.750	1.669	1.638	1.766	7.47
56)	P	4-Nitrophenol			0.149	0.166	0.216	0.229	0.225	0.197	18.72
57)		2,4-Dinitrotol...	0.377	0.360	0.515	0.483	0.464	0.461	0.437	0.442	12.63
58)		Fluorene	1.428	1.299	1.575	1.538	1.427	1.344	1.324	1.419	7.48
59)		2,3,4,6-Tetrac...	0.372	0.336	0.440	0.434	0.421	0.419	0.405	0.404	9.24
60)		Diethylphthalate	1.503	1.268	1.695	1.575	1.508	1.472	1.412	1.491	8.89
61)		4-Chlorophenyl...	0.757	0.683	0.816	0.804	0.740	0.721	0.704	0.746	6.64
62)		4-Nitroaniline	0.264	0.225	0.343	0.330	0.320	0.322	0.305	0.301	13.97
63)		Azobenzene	1.319	1.230	1.563	1.507	1.410	1.370	1.326	1.389	8.25
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.099	0.150	0.161	0.154	0.153	0.150	0.145	15.78
66)	c	n-Nitrosodiphe...	0.598	0.623	0.693	0.733	0.640	0.611	0.606	0.643	7.90
67)		4-Bromophenyl-...	0.228	0.232	0.256	0.281	0.250	0.239	0.242	0.247	7.23
68)		Hexachlorobenzene	0.267	0.258	0.290	0.311	0.273	0.270	0.270	0.277	6.48
69)		Atrazine	0.214	0.197	0.261	0.259	0.237	0.234	0.223	0.232	10.08
70)	C	Pentachlorophenol		0.111	0.151	0.164	0.158	0.159	0.155	0.150	12.99
71)		Phenanthrene	1.132	1.082	1.229	1.265	1.111	1.080	1.035	1.134	7.38
72)		Anthracene	1.114	1.097	1.260	1.316	1.149	1.105	1.065	1.158	8.09
73)		Carbazole	0.982	0.920	1.156	1.137	1.018	0.996	0.936	1.021	9.05
74)		Di-n-butylphth...	1.239	1.112	1.425	1.386	1.252	1.234	1.146	1.256	9.14
75)	C	Fluoranthene	1.338	1.178	1.458	1.422	1.230	1.223	1.101	1.279	10.27
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.568	0.564	0.708	0.699	0.693	0.612	0.641	10.49
78)		Pyrene	1.320	1.289	1.525	1.542	1.622	1.546	1.482	1.475	8.41
79)	S	Terphenyl-d14	1.168	1.135	1.339	1.308	1.323	1.264	1.223	1.251	6.33
80)		Butylbenzylpht...	0.528	0.519	0.622	0.652	0.599	0.615	0.575	0.587	8.36
81)		Benzo(a)anthra...	1.311	1.259	1.452	1.531	1.355	1.368	1.300	1.368	6.90
82)		3,3'-Dichlorob...		0.463	0.501	0.554	0.479	0.463	0.462	0.487	7.44
83)		Chrysene	1.311	1.233	1.407	1.448	1.282	1.252	1.224	1.308	6.70
84)		Bis(2-ethylhex...	0.825	0.787	0.820	0.931	0.765	0.773	0.772	0.810	7.22
85)	c	Di-n-octyl pht...		1.410	1.265	1.661	1.309	1.277	1.381	1.384	10.63

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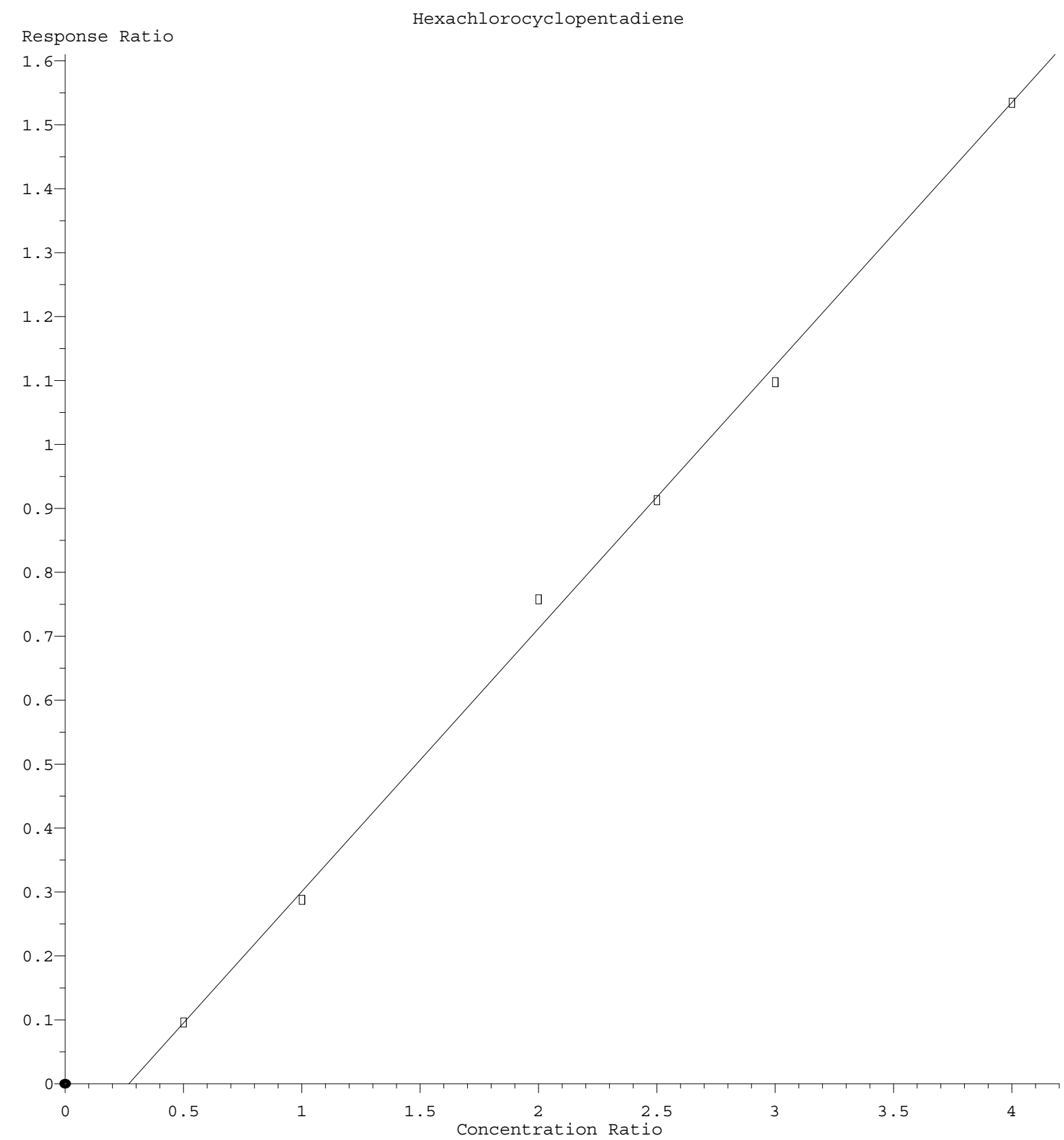
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.465	1.407	1.375	1.718	1.569	1.527	1.485	1.507	7.59
88)		Benzo(b)fluora...	1.180	1.085	1.403	1.377	1.237	1.268	1.170	1.246	9.17
89)		Benzo(k)fluora...	1.207	1.200	1.416	1.394	1.251	1.222	1.159	1.264	7.92
90)	C	Benzo(a)pyrene	1.162	1.114	1.282	1.345	1.214	1.206	1.148	1.210	6.65
91)		Dibenzo(a,h)an...	1.188	1.132	1.115	1.409	1.281	1.254	1.219	1.228	8.14
92)		Benzo(g,h,i)pe...	1.157	1.121	1.075	1.379	1.267	1.224	1.201	1.203	8.36

(#) = Out of Range



Response = 4.115e-001 * Amt - 1.107e-001
Coef of Det (r^2) = 0.998281 Curve Fit: wlr(1/a)
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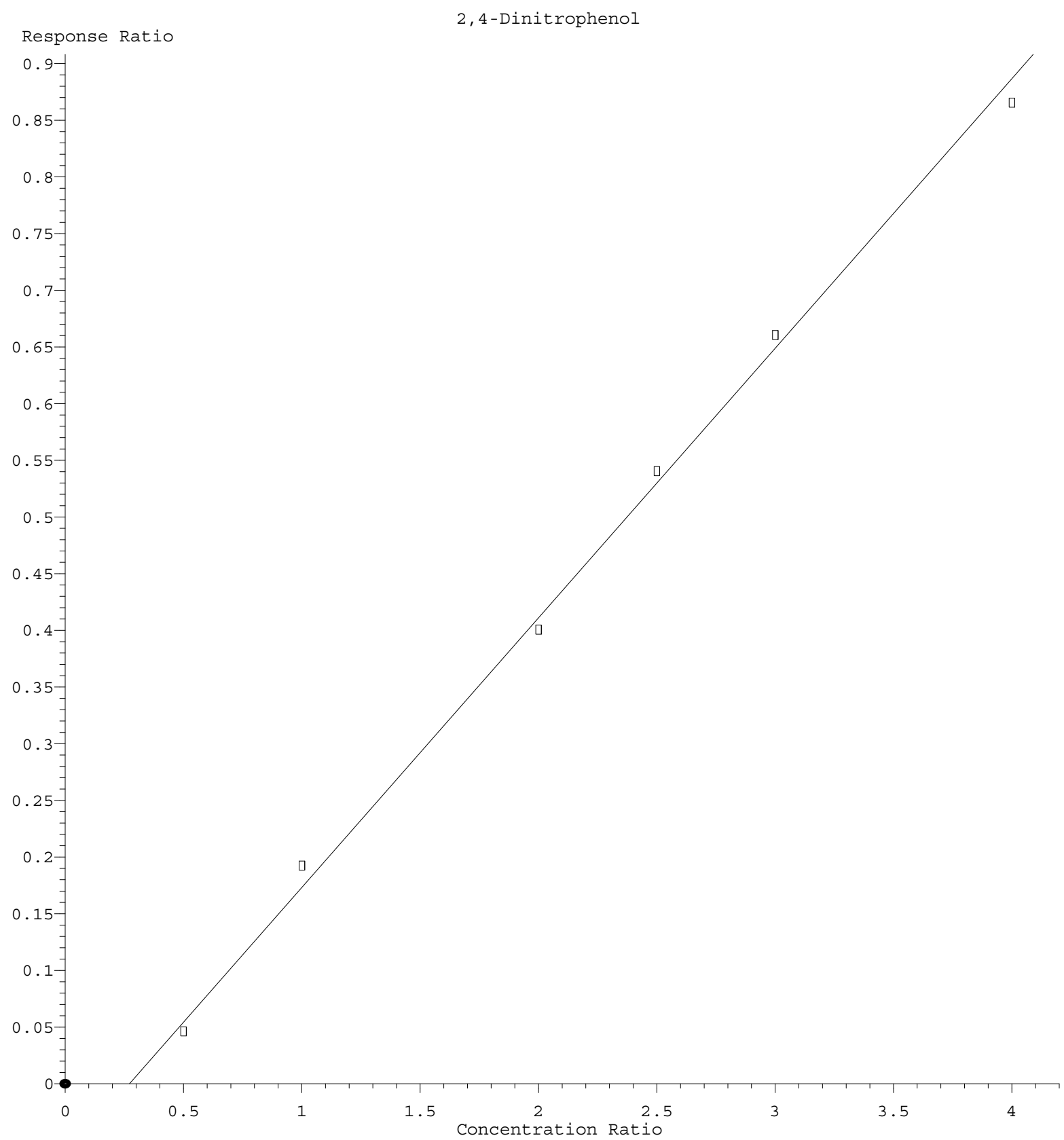

Response = 2.380e-001 * Amt - 6.472e-002
Coef of Det (r^2) = 0.997322 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP101525.M
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