Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG061923.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jun 20 03:40:38 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG057753.D 5 =BG057754.D 10 =BG057755.D 20 =BG057756.D 40 =BG057757.D 50 =BG057758.D 60 =BG057759.D 80 =BG0577
60.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.651	0.622	0.664	0.581	0.539	0.550	0.526	0.590	9.43
3)		Pyridine		1.784	1.818	1.925	1.867	1.748	1.747	1.699	1.798	4.32
4)		n-Nitrosodimet...		0.902	0.849	0.856	0.808	0.781	0.779	0.777	0.822	5.88
5)	S	2-Fluorophenol		1.371	1.340	1.382	1.307	1.240	1.251	1.190	1.297	5.58
6)		Aniline		2.577	2.593	2.705	2.592	2.494	2.417	2.362	2.534	4.63
7)	S	Phenol-d6		2.006	2.020	2.120	2.030	1.944	1.891	1.843	1.979	4.72
8)		2-Chlorophenol		1.433	1.344	1.431	1.339	1.287	1.269	1.237	1.334	5.72
9)		Benzaldehyde		1.433	1.370	1.293	1.115	1.012			1.244	14.17
10)	C	Phenol		1.997	2.009	2.067	1.989	1.914	1.862	1.802	1.949	4.78
11)		bis(2-Chloroet...		1.620	1.522	1.601	1.508	1.445	1.413	1.379	1.498	6.11
12)		1,3-Dichlorobe...		1.430	1.426	1.479	1.374	1.284	1.289	1.224	1.358	6.91
13)	C	1,4-Dichlorobe...		1.495	1.410	1.491	1.366	1.317	1.291	1.262	1.376	6.78
14)		1,2-Dichlorobe...		1.412	1.413	1.434	1.344	1.263	1.252	1.203	1.331	6.94
15)		Benzyl Alcohol		1.517	1.486	1.568	1.586	1.504	1.464	1.468	1.513	3.16
16)		2,2'-oxybis(1-...		3.056	2.953	3.080	2.918	2.775	2.726	2.638	2.878	5.86
17)		2-Methylphenol		1.442	1.451	1.541	1.458	1.412	1.370	1.360	1.433	4.28
18)		Hexachloroethane		0.496	0.506	0.515	0.492	0.462	0.474	0.450	0.485	4.91
19)	P	n-Nitroso-di-n...	1.328	1.426	1.392	1.500	1.453	1.352	1.302	1.286	1.380	5.50
20)		3+4-Methylphenols		1.904	1.951	2.127	2.087	1.974	1.919	1.896	1.980	4.64
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.572	0.592	0.599	0.559	0.530	0.554	0.520	0.561	5.25
23)	S	Nitrobenzene-d5		0.349	0.372	0.407	0.401	0.390	0.415	0.392	0.390	5.76
24)		Nitrobenzene		0.378	0.401	0.423	0.411	0.400	0.426	0.402	0.406	3.99
25)		Isophorone		0.879	0.883	0.940	0.909	0.871	0.896	0.853	0.890	3.17
26)	C	2-Nitrophenol		0.106	0.114	0.133	0.144	0.148			0.129	14.18
27)		2,4-Dimethylph...		0.324	0.317	0.334	0.326	0.309	0.319	0.308	0.319	2.96
28)		bis(2-Chloroet...		0.479	0.494	0.505	0.480	0.462	0.481	0.455	0.479	3.60
29)	C	2,4-Dichloroph...		0.279	0.289	0.317	0.314	0.304	0.317	0.304	0.303	4.85
30)		1,2,4-Trichlor...		0.337	0.357	0.352	0.330	0.323	0.347	0.322	0.338	4.16
31)		Naphthalene		1.104	1.117	1.120	1.056	1.009	1.053	0.992	1.064	4.84
32)		Benzoic acid			0.182	0.217	0.235	0.247	0.262	0.268	0.235	13.62
33)		4-Chloroaniline		0.474	0.500	0.526	0.498	0.479	0.496	0.480	0.493	3.63
34)	C	Hexachlorobuta...		0.213	0.207	0.217	0.200	0.198	0.211	0.198	0.206	3.75
35)		Caprolactam		0.114	0.118	0.138	0.129	0.120	0.123	0.120	0.123	6.41
36)	C	4-Chloro-3-met...		0.359	0.389	0.424	0.407	0.396	0.406	0.392	0.396	5.09
37)		2-Methylnaphth...		0.788	0.799	0.823	0.778	0.747	0.769	0.727	0.776	4.14
38)		1-Methylnaphth...		0.729	0.761	0.788	0.738	0.708	0.719	0.685	0.732	4.65

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.534	0.574	0.586	0.558	0.532	0.569	0.529	0.554	4.13
41)	P	Hexachlorocycl...	0.258	0.278	0.297	0.303	0.299	0.317	0.308	0.294	6.88
42)	S	2,4,6-Tribromo...	0.257	0.272	0.300	0.289	0.273	0.285	0.275	0.279	4.96
43)	C	2,4,6-Trichlor...	0.358	0.384	0.415	0.412	0.392	0.416	0.404	0.397	5.31
44)		2,4,5-Trichlor...	0.396	0.456	0.493	0.473	0.465	0.490	0.466	0.463	6.95
45)	S	2-Fluorobiphenyl	1.418	1.430	1.413	1.310	1.222	1.265	1.172	1.319	7.89
46)		1,1'-Biphenyl	1.430	1.452	1.452	1.382	1.283	1.337	1.277	1.373	5.51
47)		2-Chloronaphth...	1.076	1.103	1.114	1.054	1.002	1.047	0.989	1.055	4.49
48)		2-Nitroaniline	0.287	0.312	0.378	0.401	0.402	0.426	0.419	0.375	14.51
49)		Acenaphthylene	1.833	1.908	1.938	1.833	1.717	1.773	1.675	1.811	5.30
50)		Dimethylphthalate	1.580	1.640	1.666	1.541	1.442	1.471	1.414	1.536	6.38
51)		2,6-Dinitrotol...	0.210	0.252	0.299	0.309	0.296	0.314	0.300	0.283	13.38
52)	C	Acenaphthene	1.121	1.159	1.181	1.130	1.074	1.111	1.070	1.121	3.65
53)		3-Nitroaniline	0.258	0.301	0.338	0.343	0.326	0.335	0.331	0.319	9.42
54)	P	2,4-Dinitrophenol		0.095	0.118	0.135	0.136	0.151	0.153	0.131	16.38
55)		Dibenzofuran	1.856	1.936	1.942	1.823	1.690	1.735	1.637	1.803	6.62
56)	P	4-Nitrophenol	0.197	0.233	0.270	0.274	0.259	0.274	0.266	0.253	11.24
57)		2,4-Dinitrotol...	0.284	0.324	0.401	0.419	0.406	0.429	0.422	0.384	14.66
58)		Fluorene	1.545	1.537	1.565	1.436	1.316	1.332	1.257	1.427	8.82
59)		2,3,4,6-Tetrac...	0.365	0.379	0.418	0.416	0.381	0.406	0.395	0.394	5.14
60)		Diethylphthalate	1.631	1.669	1.712	1.607	1.474	1.503	1.435	1.576	6.70
61)		4-Chlorophenyl...	0.796	0.798	0.816	0.761	0.712	0.730	0.698	0.759	6.11
62)		4-Nitroaniline	0.269	0.321	0.353	0.349	0.323	0.333	0.327	0.325	8.51
63)		Azobenzene	1.720	1.704	1.736	1.614	1.498	1.543	1.469	1.612	6.88
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.062	0.076	0.085	0.088	0.096	0.098	0.084	15.88
66)	c	n-Nitrosodiphe...	0.525	0.547	0.552	0.532	0.509	0.528	0.503	0.528	3.43
67)		4-Bromophenyl-...	0.206	0.219	0.216	0.213	0.205	0.218	0.207	0.212	2.85
68)		Hexachlorobenzene	0.213	0.221	0.220	0.217	0.210	0.223	0.210	0.216	2.48
69)		Atrazine	0.184	0.192	0.199	0.182	0.171	0.174	0.166	0.181	6.59
70)	C	Pentachlorophenol	0.133	0.145	0.165	0.167	0.168	0.173	0.167	0.160	9.39
71)		Phenanthrene	1.037	1.028	1.031	0.961	0.907	0.934	0.880	0.968	6.65
72)		Anthracene	1.043	1.035	1.054	0.993	0.933	0.958	0.906	0.989	5.88
73)		Carbazole	0.966	0.973	0.988	0.906	0.849	0.872	0.828	0.912	7.09
74)		Di-n-butylphth...	1.079	1.108	1.172	1.101	1.031	1.061	1.004	1.080	5.12
75)	C	Fluoranthene	1.245	1.229	1.259	1.146	1.062	1.093	1.041	1.154	7.91
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.543	0.494	0.442	0.505	0.456	0.422	0.420	0.469	9.86
78)		Pyrene	1.481	1.506	1.503	1.451	1.359	1.392	1.295	1.427	5.64
79)	S	Terphenyl-d14	1.183	1.171	1.152	1.065	1.000	1.013	0.924	1.073	9.23
80)		Butylbenzylpht...	0.484	0.510	0.557	0.569	0.552	0.580	0.547	0.543	6.26
81)		Benzo(a)anthra...	1.399	1.420	1.433	1.387	1.319	1.369	1.278	1.372	4.05
82)		3,3'-Dichlorob...	0.453	0.475	0.507	0.486	0.455	0.464	0.428	0.467	5.47
83)		Chrysene	1.386	1.341	1.375	1.321	1.262	1.312	1.223	1.317	4.45
84)		Bis(2-ethylhex...	0.750	0.806	0.830	0.815	0.767	0.808	0.740	0.788	4.46
85)	c	Di-n-octyl pht...	1.230	1.341	1.419	1.456	1.389	1.467	1.373	1.382	5.83

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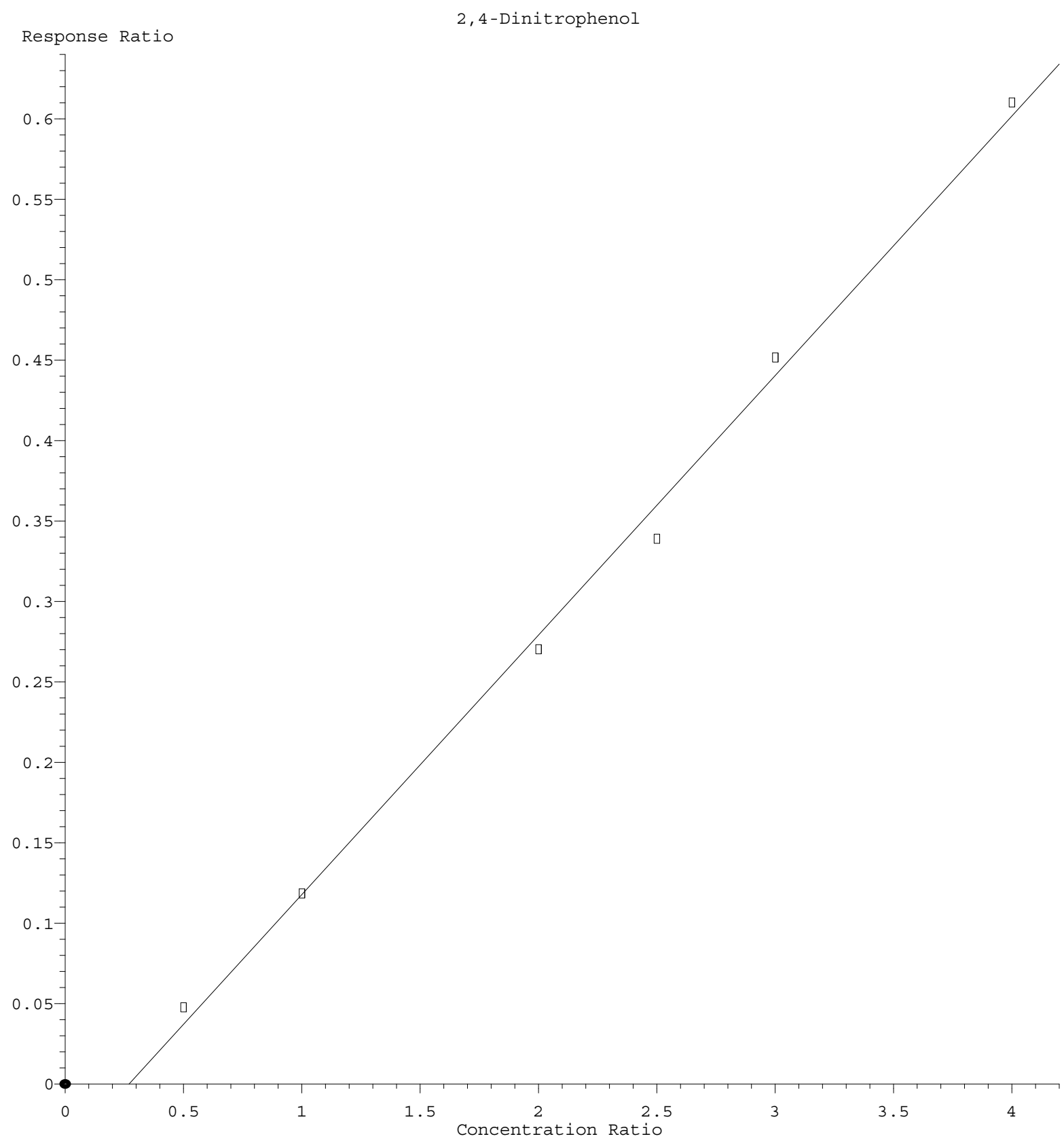
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.267	1.301	1.355	1.340	1.281	1.329	1.280	1.308	2.61
88)		Benzo(b)fluora...	1.098	1.118	1.140	1.116	1.053	1.103	1.043	1.096	3.23
89)		Benzo(k)fluora...	1.145	1.154	1.171	1.130	1.081	1.098	1.035	1.116	4.27
90)	C	Benzo(a)pyrene	1.047	1.086	1.131	1.108	1.047	1.088	1.027	1.076	3.47
91)		Dibenzo(a,h)an...	1.082	1.084	1.125	1.109	1.055	1.092	1.048	1.085	2.53
92)		Benzo(g,h,i)pe...	1.066	1.082	1.120	1.107	1.065	1.105	1.059	1.086	2.25

(#) = Out of Range



Response = 1.614e-001 * Amt - 4.358e-002
Coef of Det (r^2) = 0.996241 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG061923.M
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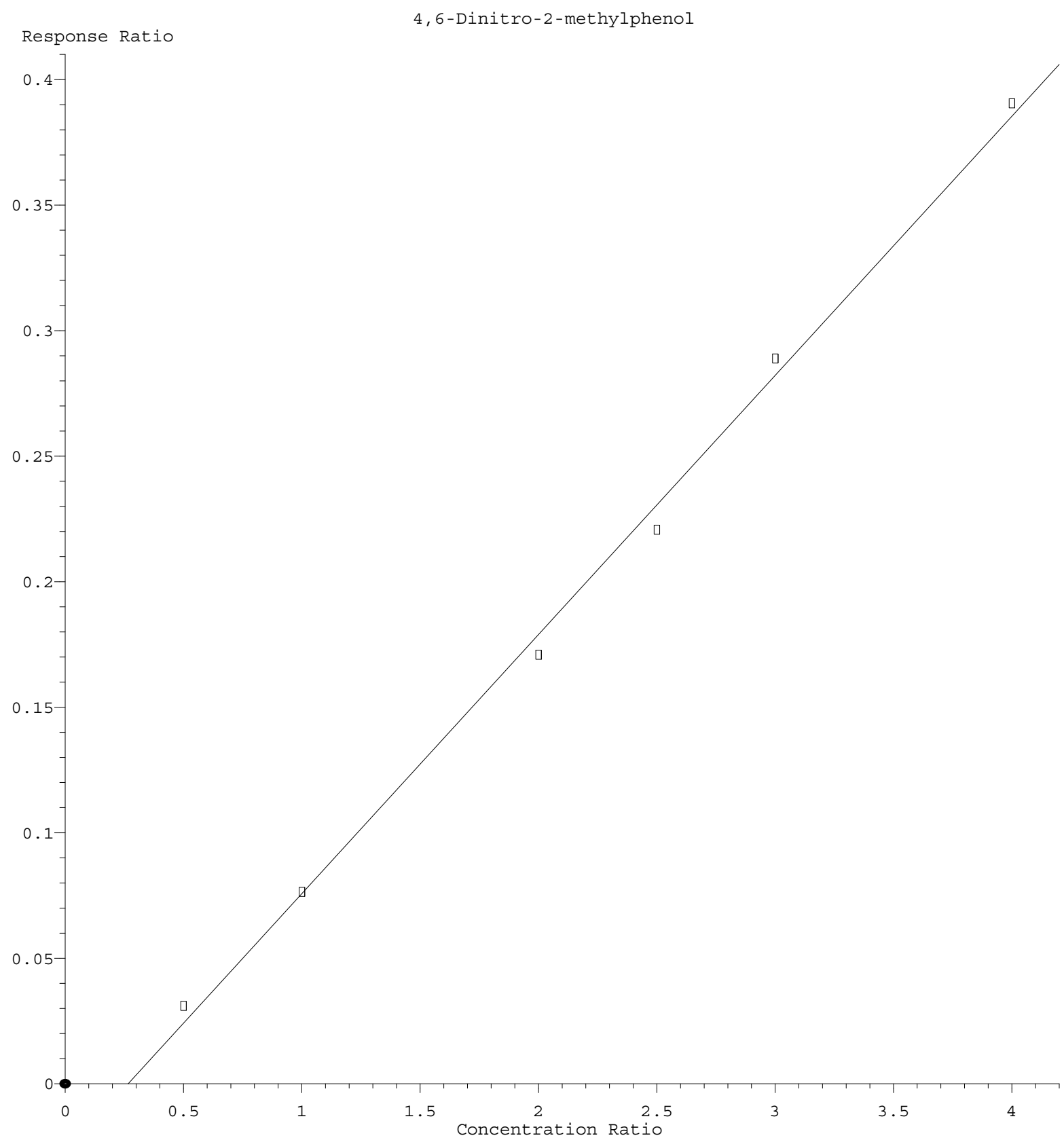

Response = 1.033e-001 * Amt - 2.744e-002
Coef of Det (r^2) = 0.996850 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG061923.M
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