

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN051623.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed May 17 02:52:36 2023
 Response Via : Initial Calibration

Calibration Files

0.1 =BN025435.D 0.2 =BN025436.D 0.4 =BN025437.D 0.8 =BN025438.D 1.6 =BN025439.D 3.2 =BN025440.D 5.0 =BN025441.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.370	0.376	0.432	0.348	0.424	0.345	0.325	0.374	10.83
3)	n-Nitrosodimet...		0.253	0.408	0.396	0.513	0.422	0.420	0.402	20.95
4) S	2-Fluorophenol	0.850	0.823	0.978	0.828	0.970	0.794	0.769	0.859	9.62
5) S	Phenol-d6	1.187	1.102	1.286	1.095	1.287	1.074	1.041	1.153	8.79
6)	bis(2-Chloroet...	2.318	1.531	1.446	1.115	1.242	1.016	0.948	1.374	34.09
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.264	0.247	0.292	0.252	0.308	0.272	0.279	0.273	7.91
9)	Naphthalene	0.972	0.943	1.107	0.941	1.113	0.964	0.948	0.998	7.76
10)	Hexachlorobuta...	0.198	0.187	0.218	0.184	0.217	0.185	0.182	0.196	8.03
11) SURR	2-Methylnaphth...	0.537	0.527	0.620	0.527	0.626	0.545	0.533	0.559	7.90
12)	2-Methylnaphth...	0.711	0.688	0.810	0.692	0.826	0.716	0.696	0.734	7.95
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.106	0.117	0.149	0.127	0.159	0.143	0.148	0.136	14.36
15) S	2-Fluorobiphenyl	1.407	1.373	1.664	1.368	1.628	1.413	1.389	1.463	8.65
16)	Acenaphthylene	1.750	1.704	2.044	1.697	2.071	1.827	1.817	1.844	8.36
17)	Acenaphthene	1.082	1.051	1.269	1.067	1.292	1.138	1.127	1.147	8.44
18)	Fluorene	1.435	1.396	1.736	1.384	1.669	1.488	1.436	1.506	9.25
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...		0.027	0.047	0.050	0.067	0.061	0.066	0.053	28.99
21)	4-Bromophenyl-...	0.226	0.214	0.255	0.213	0.263	0.228	0.225	0.232	8.38
22)	Hexachlorobenzene	0.208	0.203	0.238	0.198	0.244	0.207	0.208	0.215	8.46
23)	Atrazine	0.189	0.176	0.207	0.180	0.222	0.194	0.197	0.195	8.18
24)	Pentachlorophenol		0.025	0.053	0.070	0.098	0.093	0.103	0.074	41.41
25)	Phenanthrene	1.073	1.044	1.236	1.047	1.292	1.099	1.088	1.126	8.71
26)	Anthracene	1.001	0.993	1.170	1.015	1.261	1.082	1.104	1.089	9.09
27) SURR	Fluoranthene-d10	0.923	0.877	1.033	0.882	1.077	0.934	0.933	0.951	7.95
28)	Fluoranthene	1.260	1.213	1.445	1.246	1.531	1.323	1.309	1.332	8.66
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.427	1.385	1.729	1.374	1.752	1.480	1.541	1.527	10.27
31) S	Terphenyl-d14	0.709	0.699	0.862	0.674	0.817	0.687	0.640	0.727	11.17
32)	Benzo(a)anthra...	1.353	1.288	1.612	1.304	1.552	1.365	1.357	1.405	8.96
33)	Chrysene	1.316	1.301	1.639	1.314	1.561	1.325	1.313	1.395	10.16
34)	Bis(2-ethylhex...	0.845	0.740	0.885	0.727	0.895	0.815	0.848	0.822	8.05
35) I	Perylene-d12	-----ISTD-----								

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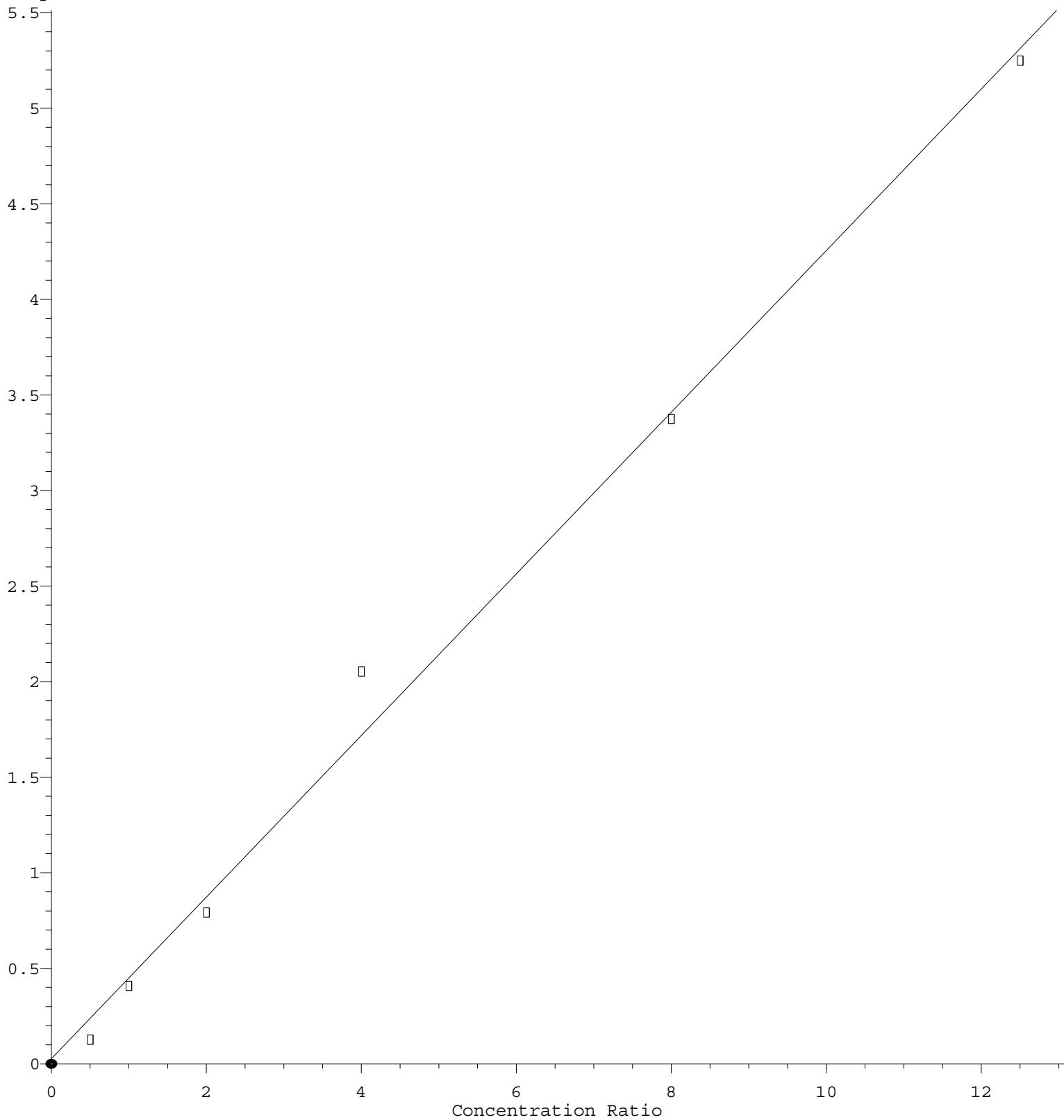
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36)	Indeno(1,2,3-c...	1.463	1.470	1.719	1.531	1.858	1.637	1.638	1.616	8.82
37)	Benzo(b)fluora...	1.312	1.286	1.500	1.282	1.617	1.395	1.422	1.402	8.84
38)	Benzo(k)fluora...	1.344	1.313	1.534	1.330	1.667	1.456	1.438	1.440	8.88
39) C	Benzo(a)pyrene	1.221	1.208	1.412	1.236	1.541	1.357	1.374	1.336	9.12
40)	Dibenzo(a,h)an...	1.152	1.184	1.380	1.239	1.492	1.328	1.313	1.298	9.08
41)	Benzo(g,h,i)pe...	1.258	1.269	1.471	1.295	1.550	1.370	1.374	1.370	7.93

(#) = Out of Range

n-Nitrosodimethylamine

Response Ratio



$$\text{Response} = 4.228\text{e-}001 * \text{Amt} + 2.718\text{e-}002$$

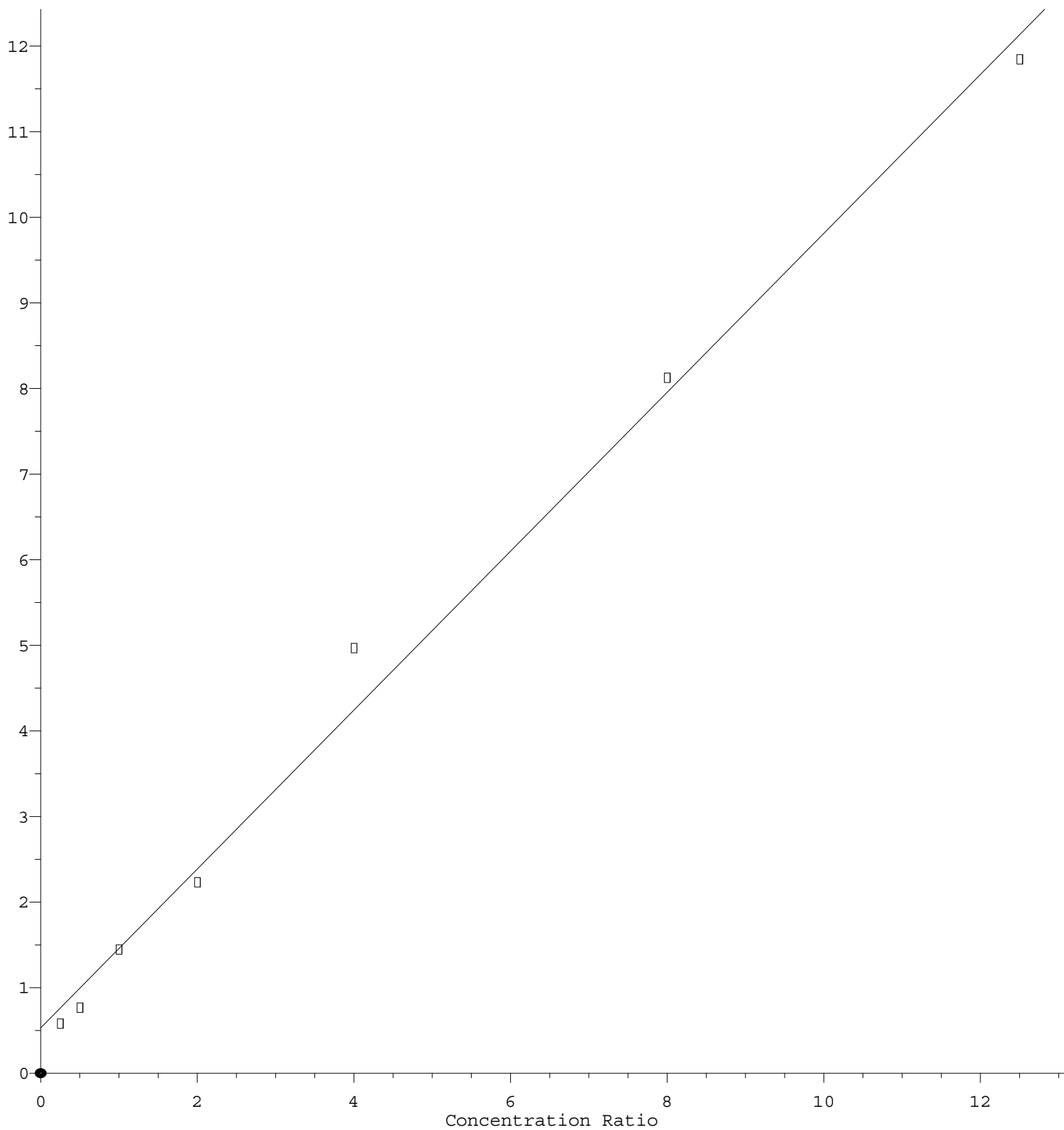
Coef of Det (r^2) = 0.993081 Curve Fit: Linear

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bis(2-Chloroethyl) ether

Response Ratio



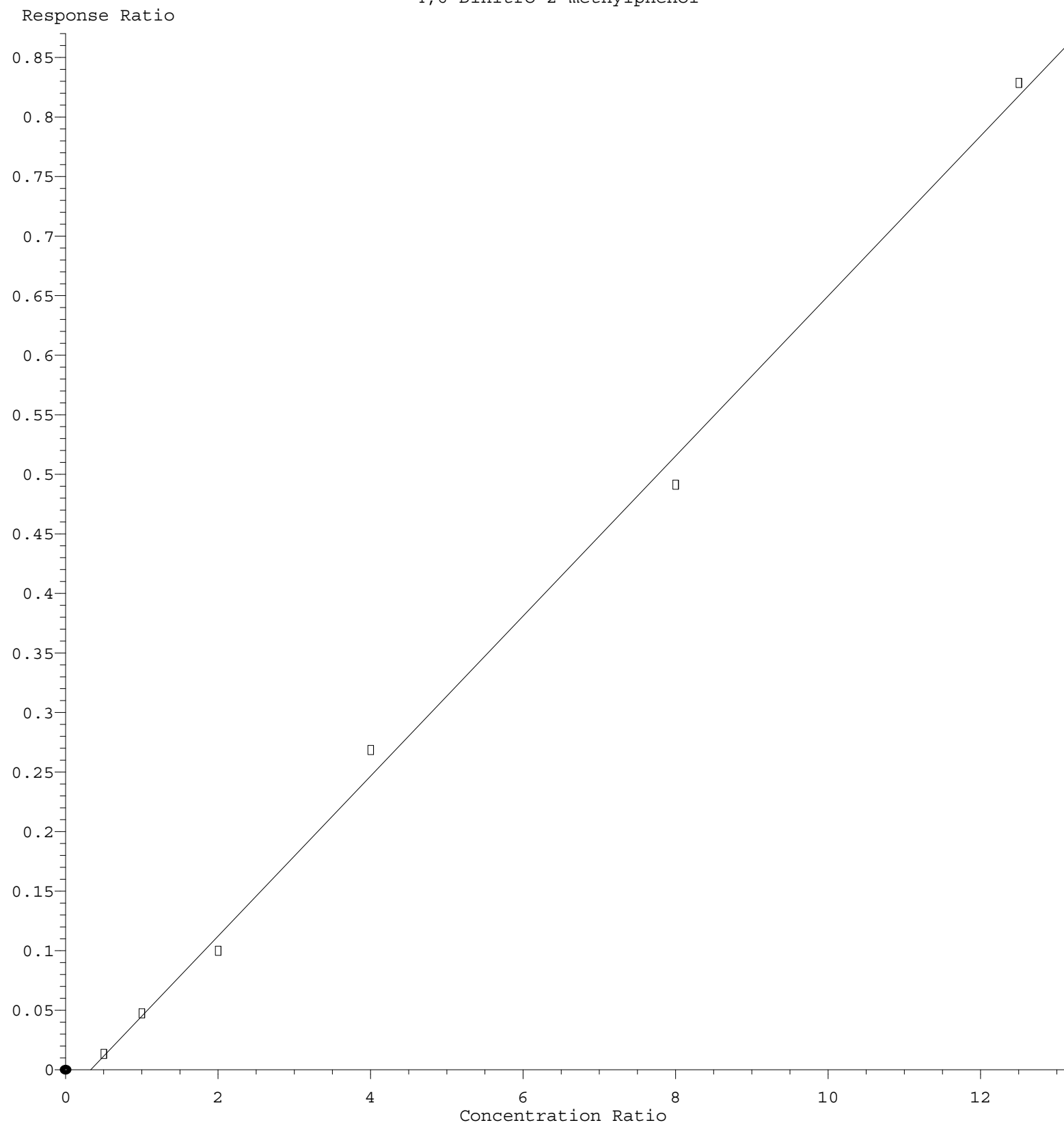
$$\text{Response} = 9.287\text{e-}001 * \text{Amt} + 5.318\text{e-}001$$

Coef of Det (r^2) = 0.993270 Curve Fit: Linear

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4,6-Dinitro-2-methylphenol



$$\text{Response} = 6.725\text{e-}002 * \text{Amt} - 2.237\text{e-}002$$

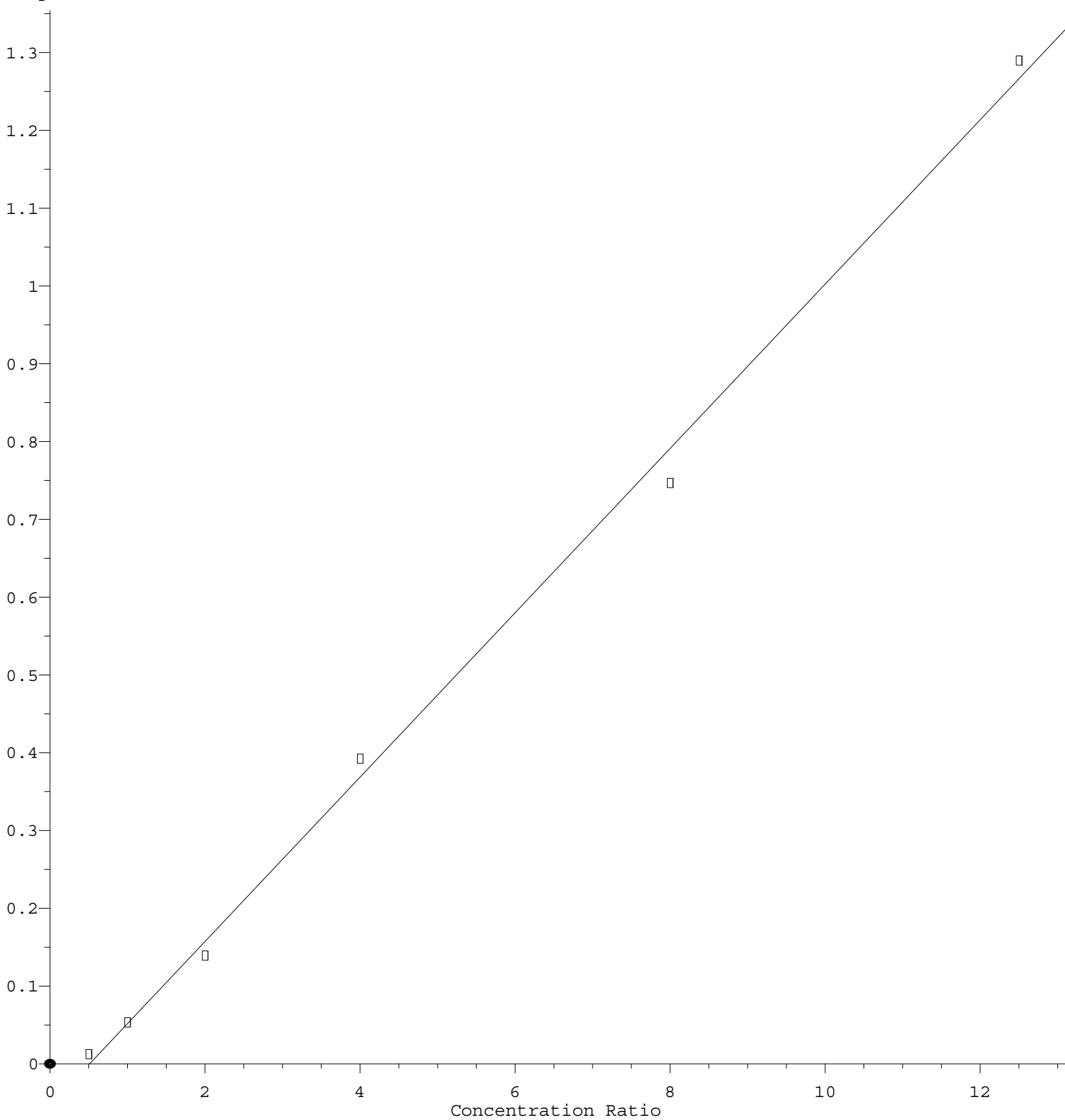
Coef of Det (r^2) = 0.997336 Curve Fit: Linear

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Pentachlorophenol

Response Ratio



$$\text{Response} = 1.057\text{e-}001 * \text{Amt} - 5.416\text{e-}002$$

Coef of Det (r^2) = 0.997107 Curve Fit: Linear

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