

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF081225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Aug 12 13:25:39 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF143343.D 5 =BF143344.D 10 =BF143345.D 20 =BF143346.D 40 =BF143347.D 50 =BF143348.D 60 =BF143349.D 80 =BF143350.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.606	0.582	0.614	0.596	0.592	0.612	0.586	0.598	2.12	
3)	Pyridine	1.476	1.573	1.597	1.615	1.623	1.668	1.613	1.595	3.75	
4)	n-Nitrosodimet...		0.686	0.711	0.759	0.762	0.776	0.764	0.743	4.80	
5) S	2-Fluorophenol	1.155	1.170	1.207	1.179	1.143	1.151	1.090	1.157	3.15	
6)	Aniline	2.162	2.139	2.178	2.119	2.029	2.057	1.954	2.091	3.88	
7) S	Phenol-d6	1.527	1.505	1.541	1.500	1.447	1.475	1.386	1.483	3.58	
8)	2-Chlorophenol	1.167	1.215	1.272	1.259	1.240	1.271	1.227	1.236	3.01	
9)	Benzaldehyde		1.109	1.106	1.011	0.875	0.800		0.980	14.15	
10) C	Phenol	1.823	1.791	1.843	1.783	1.721	1.734	1.604	1.757	4.56	
11)	bis(2-Chloroet...	1.357	1.304	1.333	1.306	1.252	1.279	1.235	1.295	3.34	
12)	1,3-Dichlorobe...	1.551	1.479	1.482	1.432	1.364	1.386	1.285	1.425	6.21	
13) C	1,4-Dichlorobe...	1.576	1.510	1.485	1.414	1.370	1.366	1.294	1.431	6.82	
14)	1,2-Dichlorobe...	1.486	1.416	1.407	1.347	1.295	1.309	1.247	1.358	6.09	
15)	Benzyl Alcohol		0.980	1.069	1.088	1.066	1.097	1.079	1.063	3.98	
16)	2,2'-oxybis(1-...	2.521	2.408	2.435	2.317	2.214	2.224	2.065	2.312	6.76	
17)	2-Methylphenol	1.017	1.038	1.077	1.064	1.036	1.059	1.012	1.043	2.35	
18)	Hexachloroethane	0.425	0.433	0.460	0.462	0.449	0.466	0.444	0.449	3.42	
19) P	n-Nitroso-di-n...	0.956	0.992	0.942	0.957	0.910	0.863	0.875	0.837	0.916	5.89
20)	3+4-Methylphenols		1.331	1.373	1.288	1.227	1.227	1.125	1.262	7.00	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.500	0.478	0.475	0.429	0.404	0.417	0.381	0.441	9.98	
23) S	Nitrobenzene-d5	0.277	0.304	0.339	0.336	0.328	0.341	0.324	0.321	7.17	
24)	Nitrobenzene	0.322	0.329	0.366	0.359	0.352	0.367	0.347	0.349	5.02	
25)	Isophorone	0.692	0.662	0.683	0.645	0.627	0.651	0.630	0.656	3.79	
26) C	2-Nitrophenol	0.069	0.085	0.109	0.126	0.134	0.151	0.150	0.118	26.89	
27)	2,4-Dimethylph...	0.259	0.261	0.288	0.279	0.275	0.285	0.267	0.274	4.15	
28)	bis(2-Chloroet...	0.424	0.410	0.425	0.396	0.383	0.396	0.369	0.400	5.19	
29) C	2,4-Dichloroph...	0.243	0.256	0.286	0.275	0.270	0.279	0.262	0.267	5.54	
30)	1,2,4-Trichlor...	0.299	0.290	0.299	0.277	0.269	0.278	0.260	0.282	5.30	
31)	Naphthalene	1.083	1.023	1.029	0.944	0.901	0.917	0.839	0.962	8.88	
32)	Benzoic acid		0.069	0.085	0.108	0.120	0.136	0.142	0.110	25.83	
33)	4-Chloroaniline	0.362	0.350	0.367	0.345	0.334	0.345	0.326	0.347	4.13	
34) C	Hexachlorobuta...	0.185	0.181	0.187	0.175	0.166	0.171	0.161	0.175	5.49	
35)	Caprolactam		0.061	0.073	0.079	0.078	0.081	0.079	0.075	9.95	
36) C	4-Chloro-3-met...	0.270	0.274	0.296	0.286	0.279	0.286	0.270	0.280	3.54	
37)	2-Methylnaphth...	0.720	0.673	0.681	0.622	0.591	0.593	0.548	0.633	9.63	
38)	1-Methylnaphth...	0.690	0.654	0.653	0.595	0.568	0.574	0.531	0.609	9.38	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF081225.M

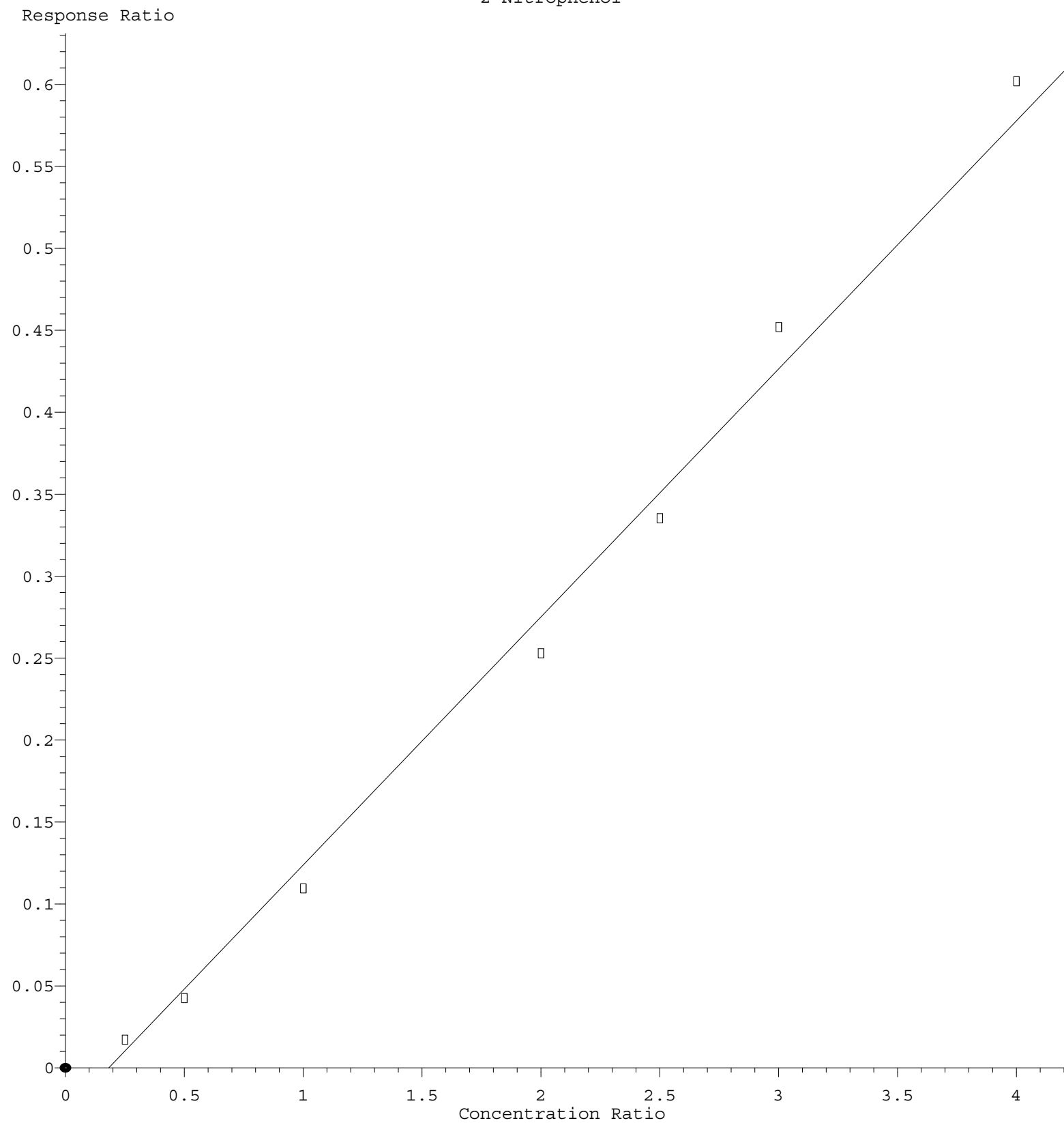
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.588	0.566	0.575	0.542	0.524	0.537	0.499	0.547	5.66	
41) P	Hexachlorocycl...	0.088	0.130	0.167	0.172	0.192	0.201	0.158	26.72		
42) S	2,4,6-Tribromo...	0.105	0.127	0.149	0.160	0.160	0.164	0.159	0.146	15.13	
43) C	2,4,6-Trichlor...	0.242	0.272	0.316	0.334	0.328	0.343	0.338	0.311	12.43	
44)	2,4,5-Trichlor...	0.307	0.308	0.366	0.377	0.364	0.370	0.361	0.351	8.48	
45) S	2-Fluorobiphenyl	1.444	1.332	1.285	1.132	1.060	1.052	0.951	1.179	15.06	
46)	1,1'-Biphenyl	1.613	1.506	1.516	1.389	1.317	1.335	1.223	1.414	9.63	
47)	2-Chloronaphth...	1.216	1.176	1.180	1.095	1.046	1.081	1.003	1.114	7.06	
48)	2-Nitroaniline	0.188	0.223	0.279	0.309	0.321	0.336	0.330	0.284	20.23	
49)	Acenaphthylene	1.759	1.682	1.719	1.588	1.525	1.541	1.444	1.608	7.13	
50)	Dimethylphthalate	1.160	1.178	1.244	1.180	1.144	1.171	1.103	1.169	3.66	
51)	2,6-Dinitrotol...	0.125	0.147	0.188	0.213	0.219	0.234	0.228	0.193	21.87	
52) C	Acenaphthene	1.208	1.127	1.121	1.054	1.012	1.017	0.945	1.069	8.28	
53)	3-Nitroaniline	0.159	0.193	0.250	0.261	0.265	0.281	0.266	0.239	18.92	
54) P	2,4-Dinitrophenol	0.030	0.046	0.066	0.073	0.086	0.092	0.065	36.52		
55)	Dibenzofuran	1.757	1.641	1.634	1.511	1.438	1.446	1.346	1.539	9.33	
56) P	4-Nitrophenol	0.096	0.147	0.173	0.180	0.194	0.190	0.163	22.52		
57)	2,4-Dinitrotol...	0.154	0.191	0.257	0.289	0.296	0.308	0.297	0.256	23.42	
58)	Fluorene	1.381	1.288	1.251	1.142	1.091	1.089	0.986	1.175	11.65	
59)	2,3,4,6-Tetrac...	0.172	0.188	0.236	0.255	0.258	0.276	0.270	0.236	17.33	
60)	Diethylphthalate	1.011	1.061	1.132	1.081	1.037	1.031	0.974	1.047	4.84	
61)	4-Chlorophenyl...	0.645	0.601	0.600	0.563	0.533	0.536	0.498	0.568	8.84	
62)	4-Nitroaniline	0.174	0.202	0.253	0.249	0.248	0.253	0.242	0.232	13.40	
63)	Azobenzene	1.302	1.228	1.285	1.193	1.147	1.149	1.065	1.196	6.99	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.036	0.054	0.071	0.077	0.087	0.091	0.069	29.75		
66) c	n-Nitrosodiphe...	0.693	0.670	0.674	0.655	0.639	0.651	0.627	0.659	3.38	
67)	4-Bromophenyl-...	0.232	0.222	0.232	0.231	0.227	0.231	0.226	0.229	1.65	
68)	Hexachlorobenzene	0.258	0.249	0.250	0.244	0.237	0.248	0.240	0.247	2.76	
69)	Atrazine	0.147	0.157	0.187	0.178	0.180	0.182	0.173	0.172	8.45	
70) C	Pentachlorophenol	0.058	0.087	0.108	0.113	0.120	0.122	0.101	24.06		
71)	Phenanthrene	1.214	1.159	1.156	1.081	1.022	1.034	0.973	1.091	8.02	
72)	Anthracene	1.225	1.168	1.184	1.088	1.043	1.057	0.980	1.107	7.97	
73)	Carbazole	1.049	1.000	1.017	0.934	0.879	0.893	0.825	0.942	8.71	
74)	Di-n-butylphth...	0.674	0.739	0.889	0.864	0.819	0.817	0.780	0.798	9.24	
75) C	Fluoranthene	1.120	1.054	1.051	0.917	0.873	0.856	0.820	0.956	12.27	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.541	0.653	0.591	0.549	0.511	0.434	0.547	13.50		
78)	Pyrene	1.924	1.963	1.910	1.661	1.513	1.460	1.315	1.678	15.44	
79) S	Terphenyl-d14	1.337	1.346	1.297	1.089	0.976	0.957	0.841	1.120	18.44	
80)	Butylbenzylpht...	0.179	0.208	0.272	0.303	0.320	0.346	0.359	0.284	24.15	
81)	Benzo(a)anthra...	1.335	1.224	1.339	1.258	1.229	1.309	1.205	1.271	4.37	
82)	3,3'-Dichlorob...	0.255	0.327	0.364	0.374	0.382	0.358	0.343	13.77		
83)	Chrysene	1.270	1.249	1.199	1.175	1.163	1.143	1.098	1.185	5.06	
84)	Bis(2-ethylhex...	0.228	0.277	0.348	0.441	0.478	0.520	0.531	0.403	29.82	
85) c	Di-n-octyl pht...	0.545	0.692	0.888	0.945	1.045	1.047	0.860	23.52		

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF081225.M

86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.401	1.455	1.479	1.449	1.392	1.443	1.411	1.433	2.24	
88)	Benzo(b)fluora...	1.172	1.027	1.092	1.118	1.046	1.147	1.054	1.094	4.98	
89)	Benzo(k)fluora...	1.064	1.080	1.158	1.036	1.053	1.022	1.027	1.063	4.41	
90) C	Benzo(a)pyrene	1.049	1.011	1.060	1.033	1.012	1.039	1.008	1.030	1.99	
91)	Dibenzo(a,h)an...	1.129	1.162	1.184	1.170	1.119	1.155	1.094	1.145	2.77	
92)	Benzo(g,h,i)pe...	1.108	1.192	1.188	1.169	1.124	1.168	1.123	1.153	2.94	

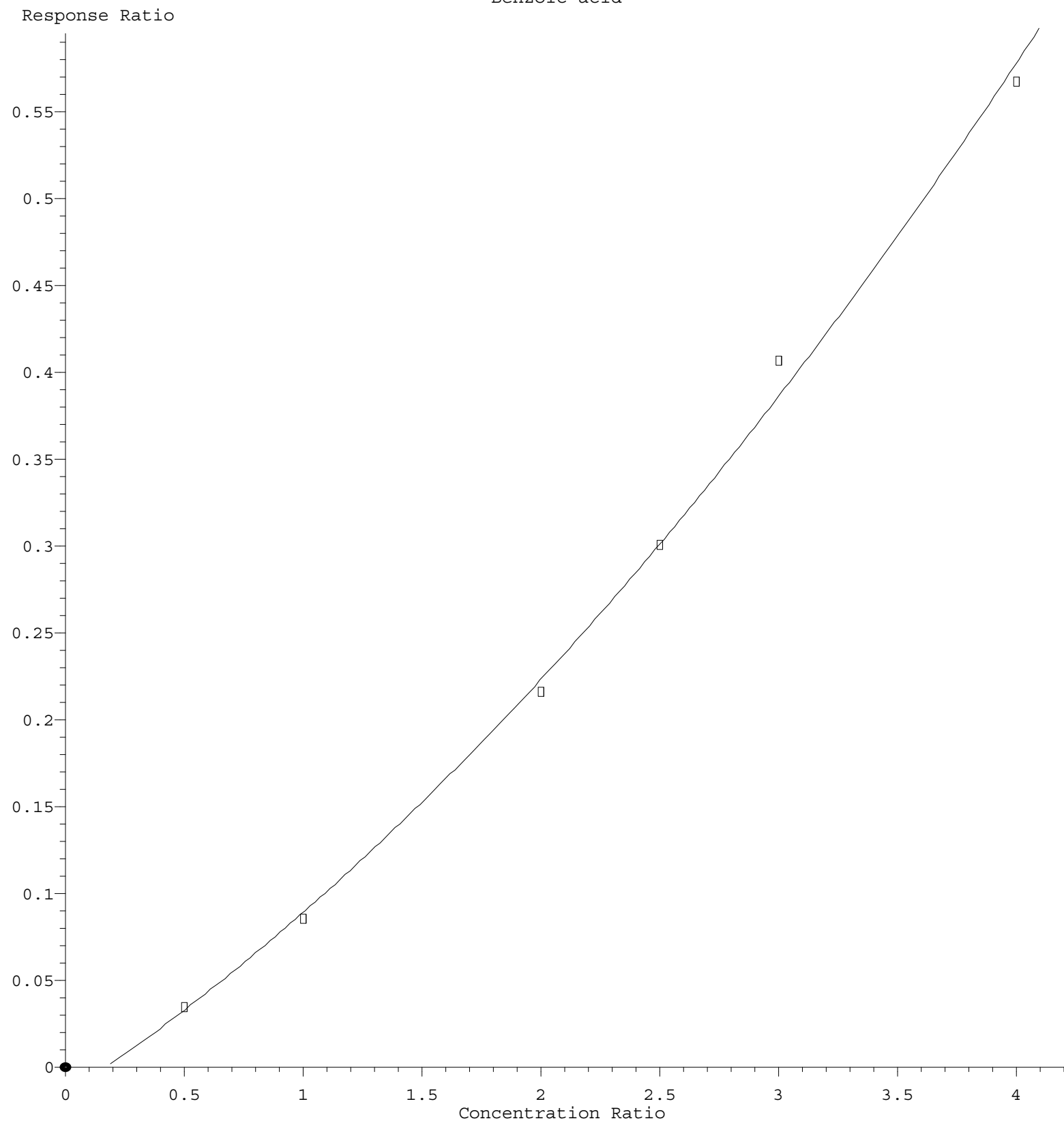
(#) = Out of Range

2-Nitrophenol



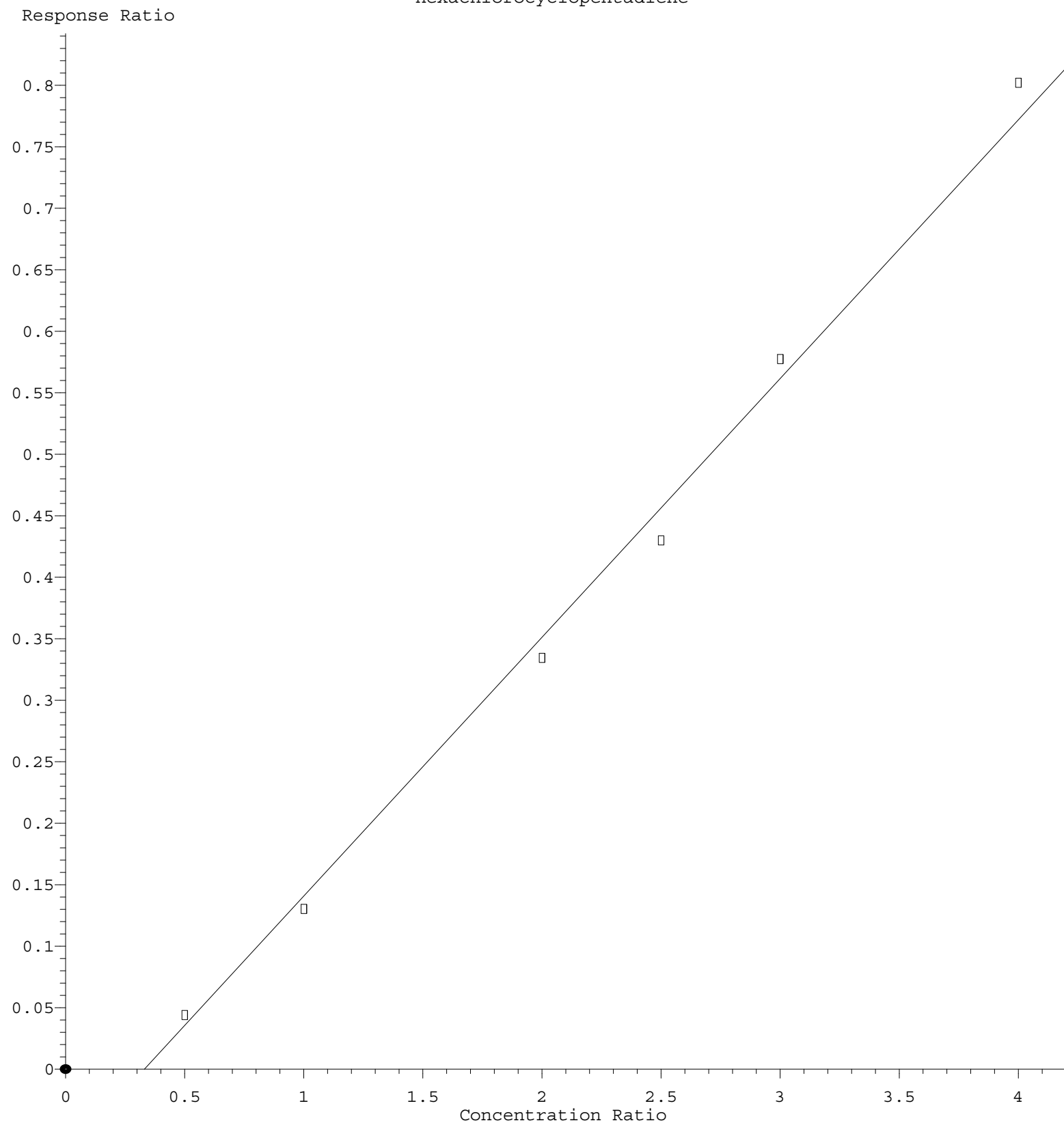
Response = $1.513 \times 10^{-1} \times \text{Amt} - 2.755 \times 10^{-2}$
 Coef of Det (r^2) = 0.993246 Curve Fit: wlr(1/a)
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M
 Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

Benzoic acid



$R = 1.441e-002 A^2 + 9.089e-002 A - 1.614e-002$
 Coef of Det (r^2) = 0.998015 Curve Fit: Quadratic w(1/a)
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M
 Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

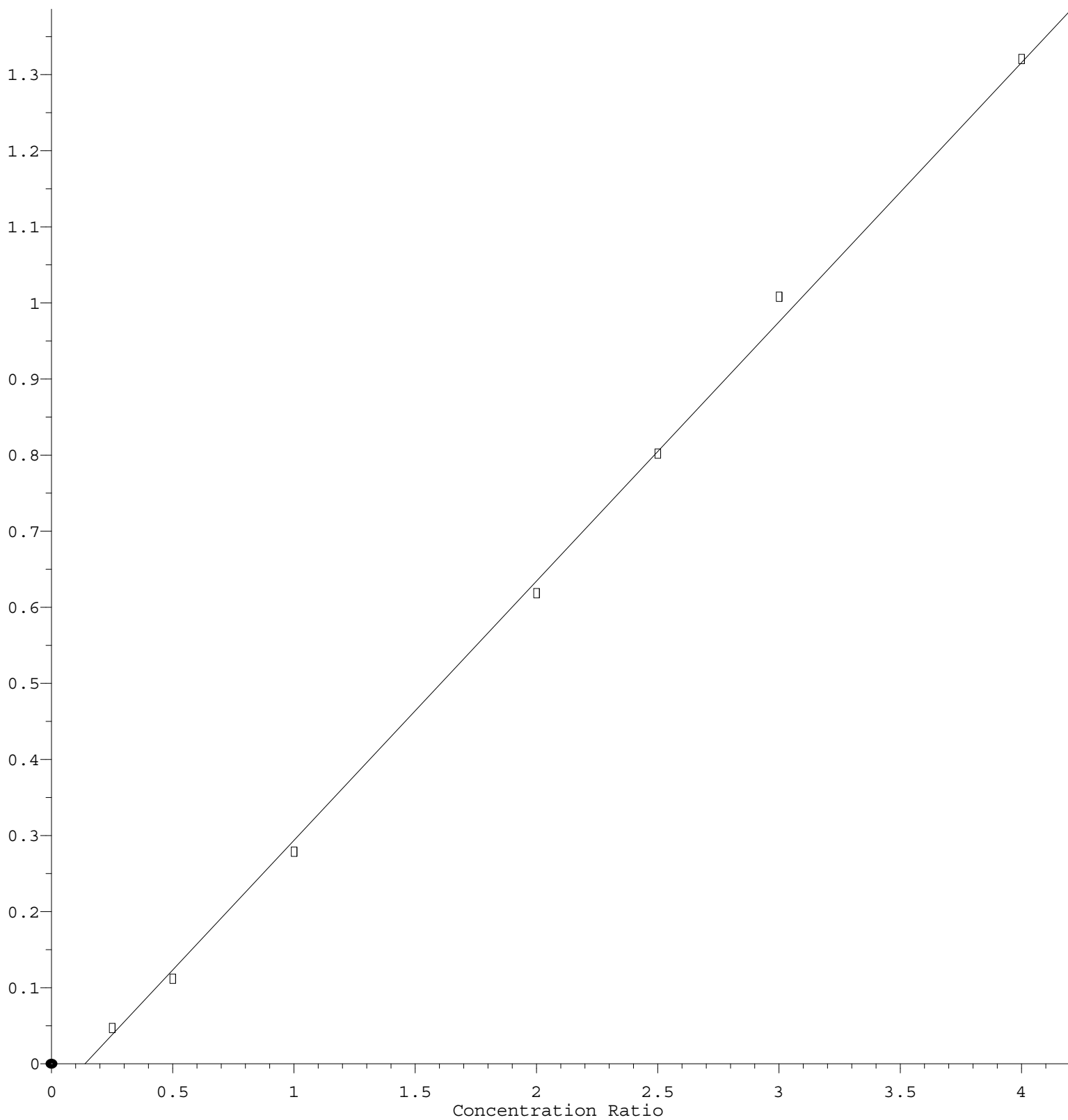
Hexachlorocyclopentadiene



Response = $2.105 \times 10^{-1} \times \text{Amt} - 6.972 \times 10^{-2}$
Coef of Det (r^2) = 0.995567 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M
Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

2-Nitroaniline

Response Ratio



$$\text{Response} = 3.408\text{e-}001 * \text{Amt} - 4.713\text{e-}002$$

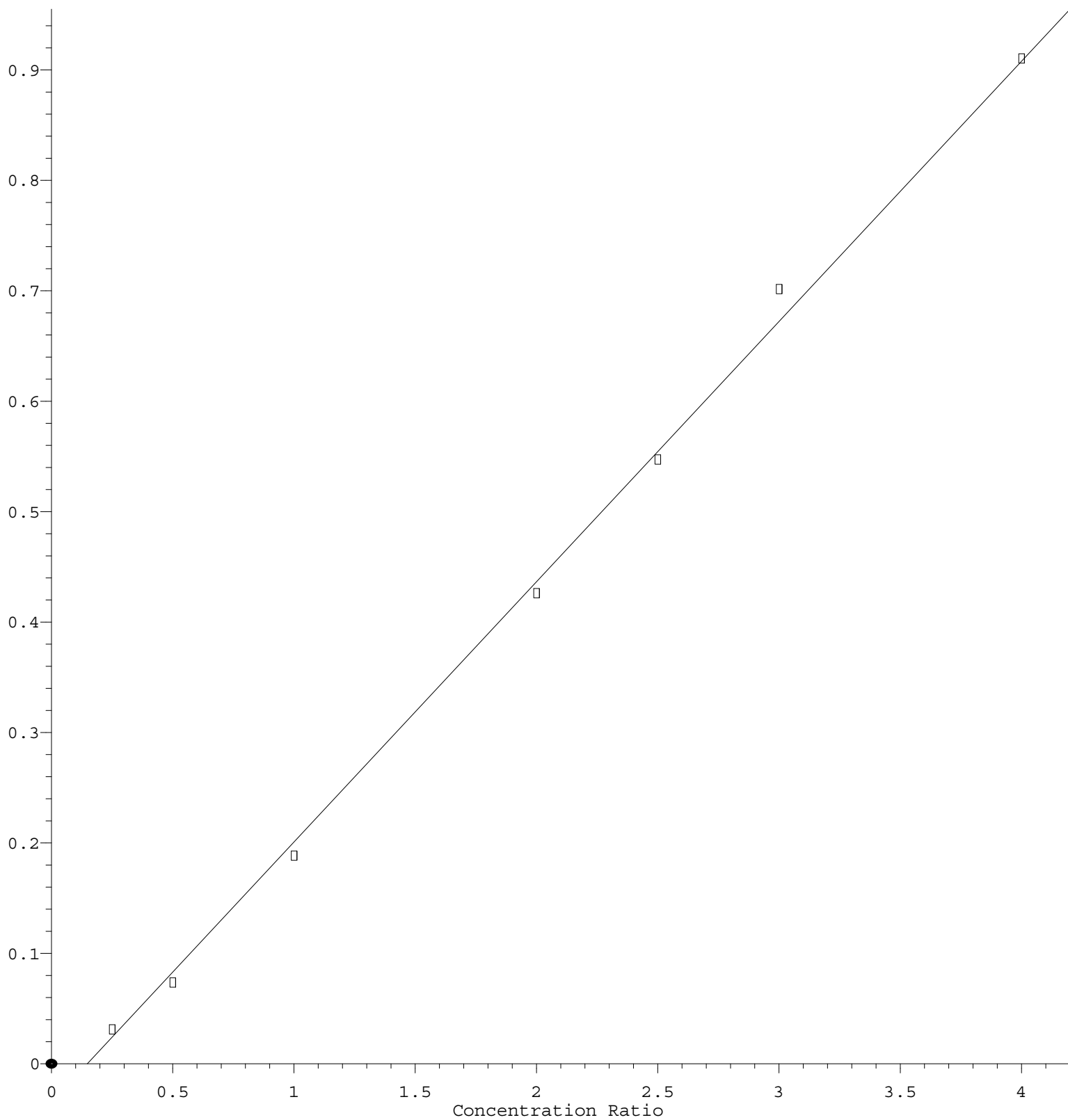
Coef of Det (r^2) = 0.998503 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M

Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

2,6-Dinitrotoluene

Response Ratio



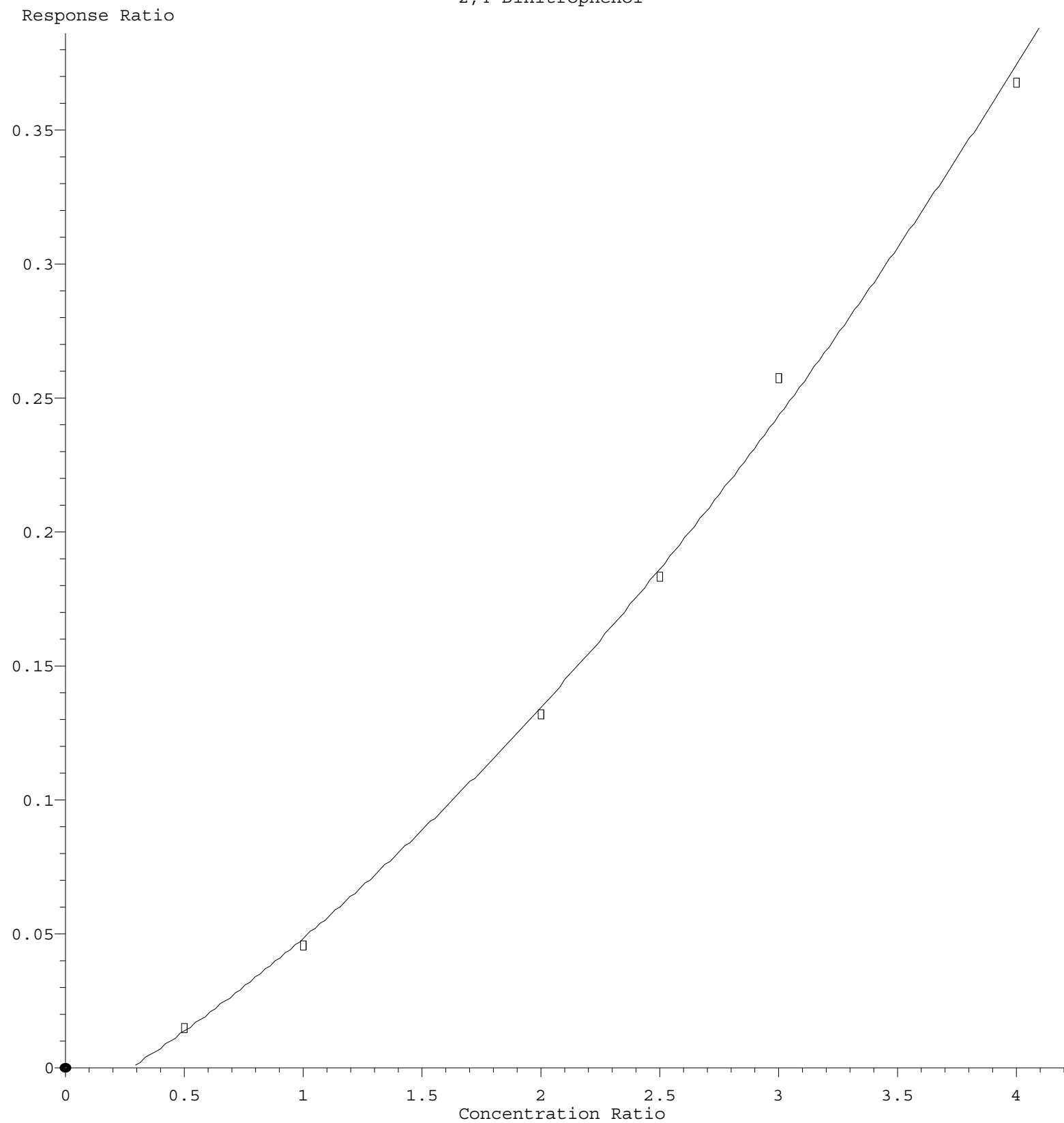
$$\text{Response} = 2.357\text{e-}001 * \text{Amt} - 3.491\text{e-}002$$

Coef of Det (r^2) = 0.997850 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M

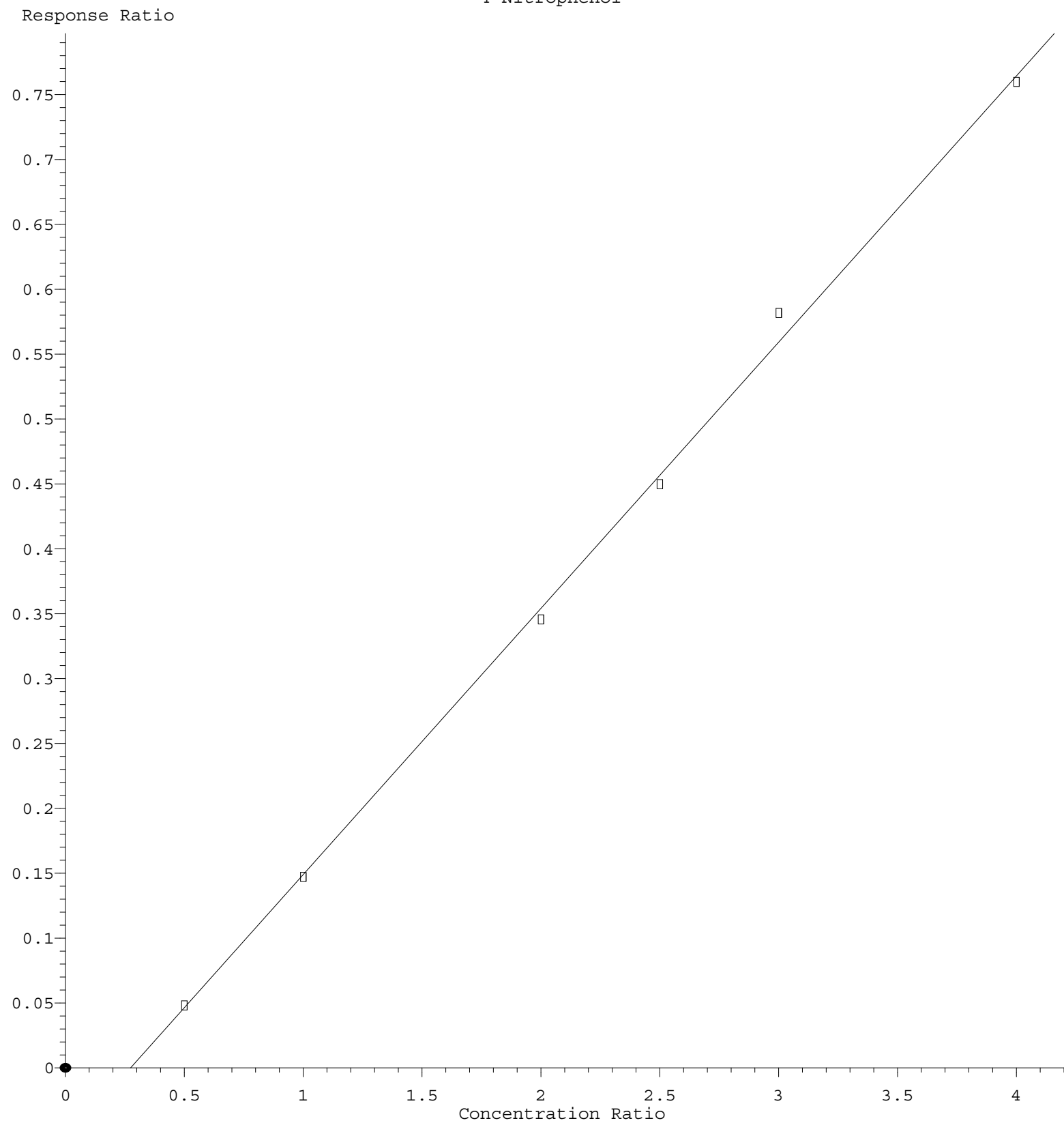
Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

2,4-Dinitrophenol



$R = 1.122e-002 A^2 + 5.261e-002 A - 1.543e-002$
 Coef of Det (r^2) = 0.997954 Curve Fit: Quadratic w(1/a)
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M
 Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

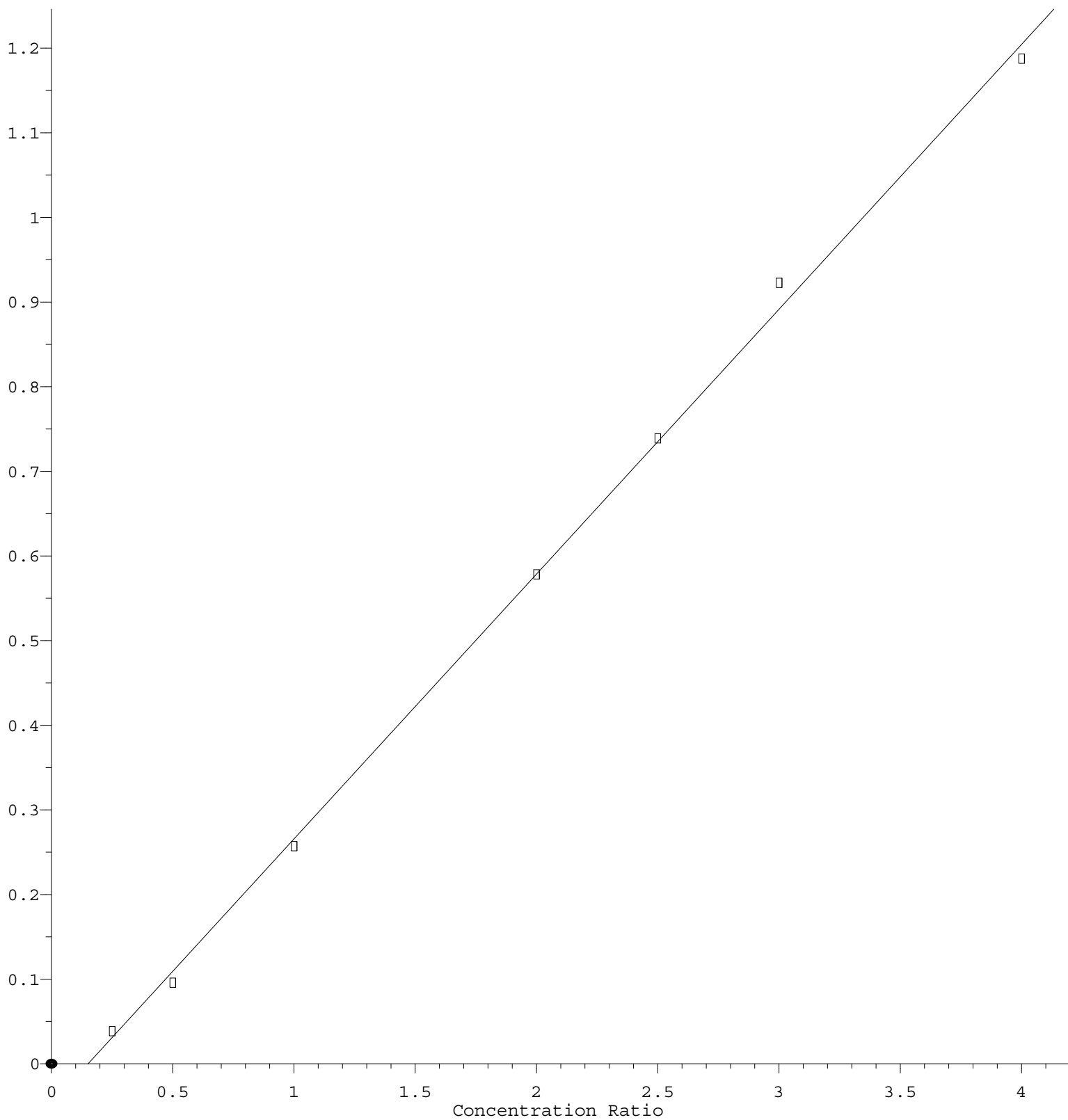
4-Nitrophenol



Response = $2.053 \times 10^{-1} \times \text{Amt} - 5.623 \times 10^{-2}$
 Coef of Det (r^2) = 0.998868 Curve Fit: wlr(1/a)
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M
 Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

2,4-Dinitrotoluene

Response Ratio



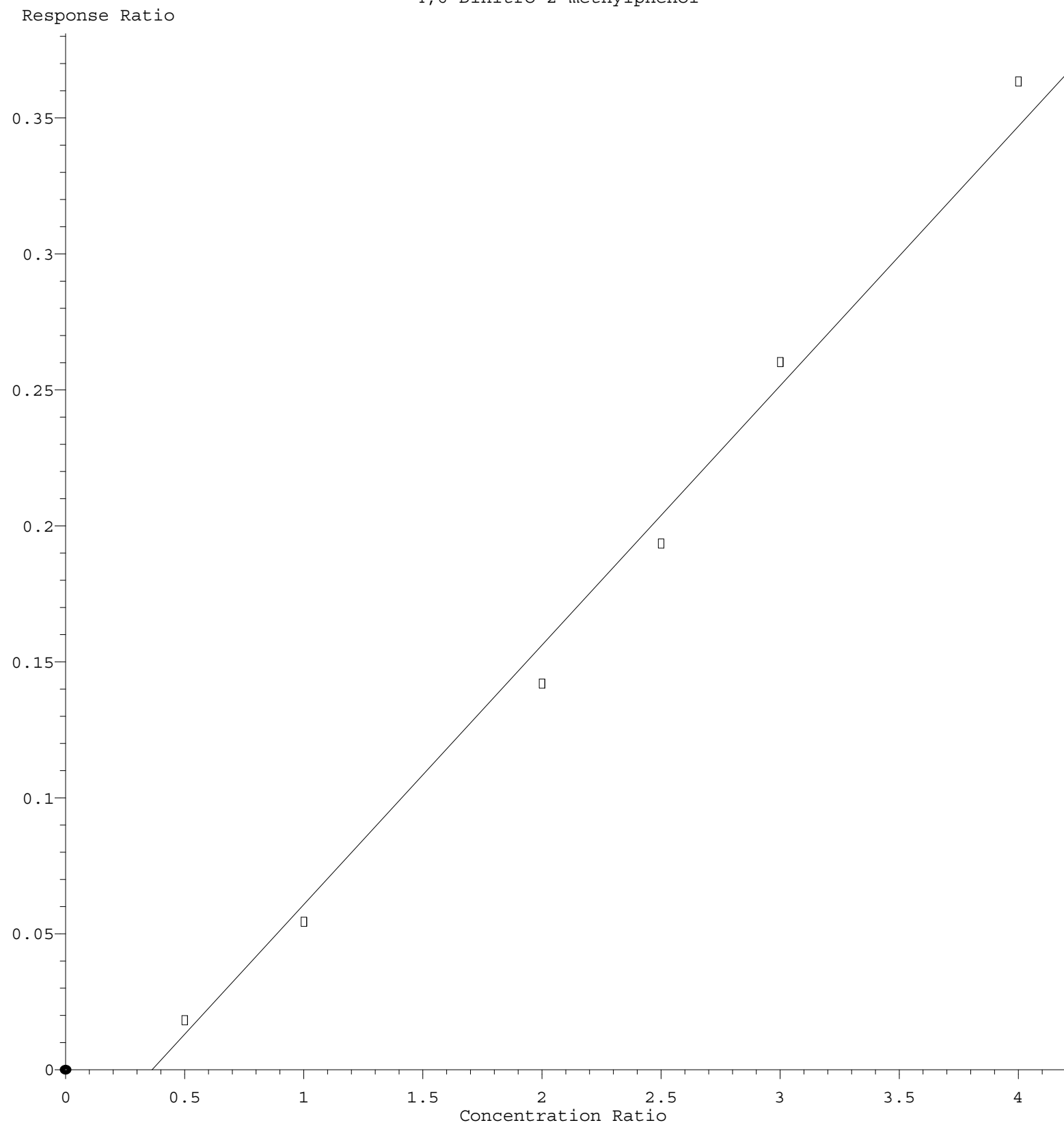
$$\text{Response} = 3.131\text{e-}001 * \text{Amt} - 4.718\text{e-}002$$

Coef of Det (r^2) = 0.998548 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M

Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

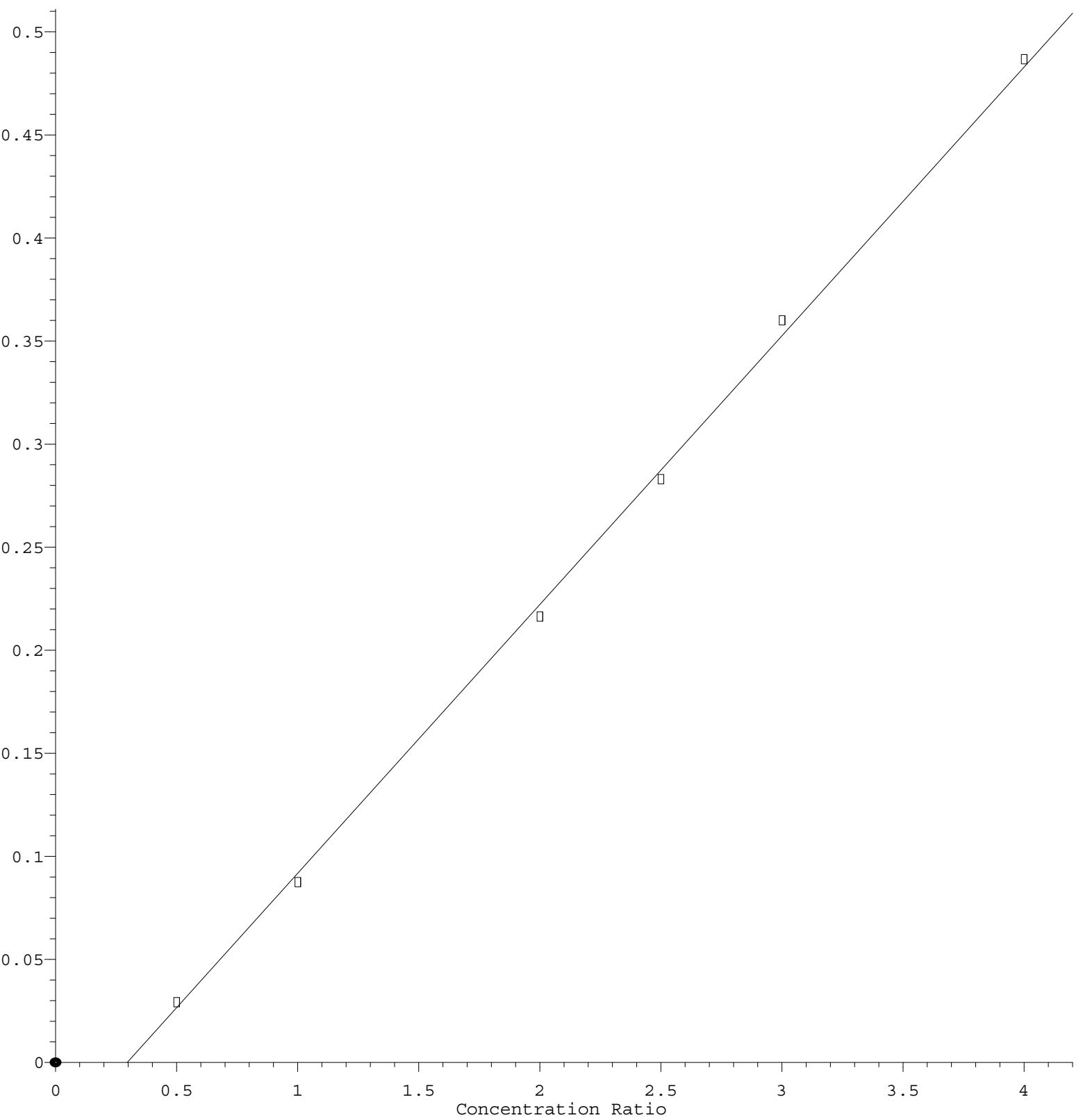
4,6-Dinitro-2-methylphenol



Response = $9.534 \times 10^{-2} \times \text{Amt} - 3.461 \times 10^{-2}$
Coef of Det (r^2) = 0.992769 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M
Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

Pentachlorophenol

Response Ratio



$$\text{Response} = 1.303\text{e-}001 * \text{Amt} - 3.859\text{e-}002$$

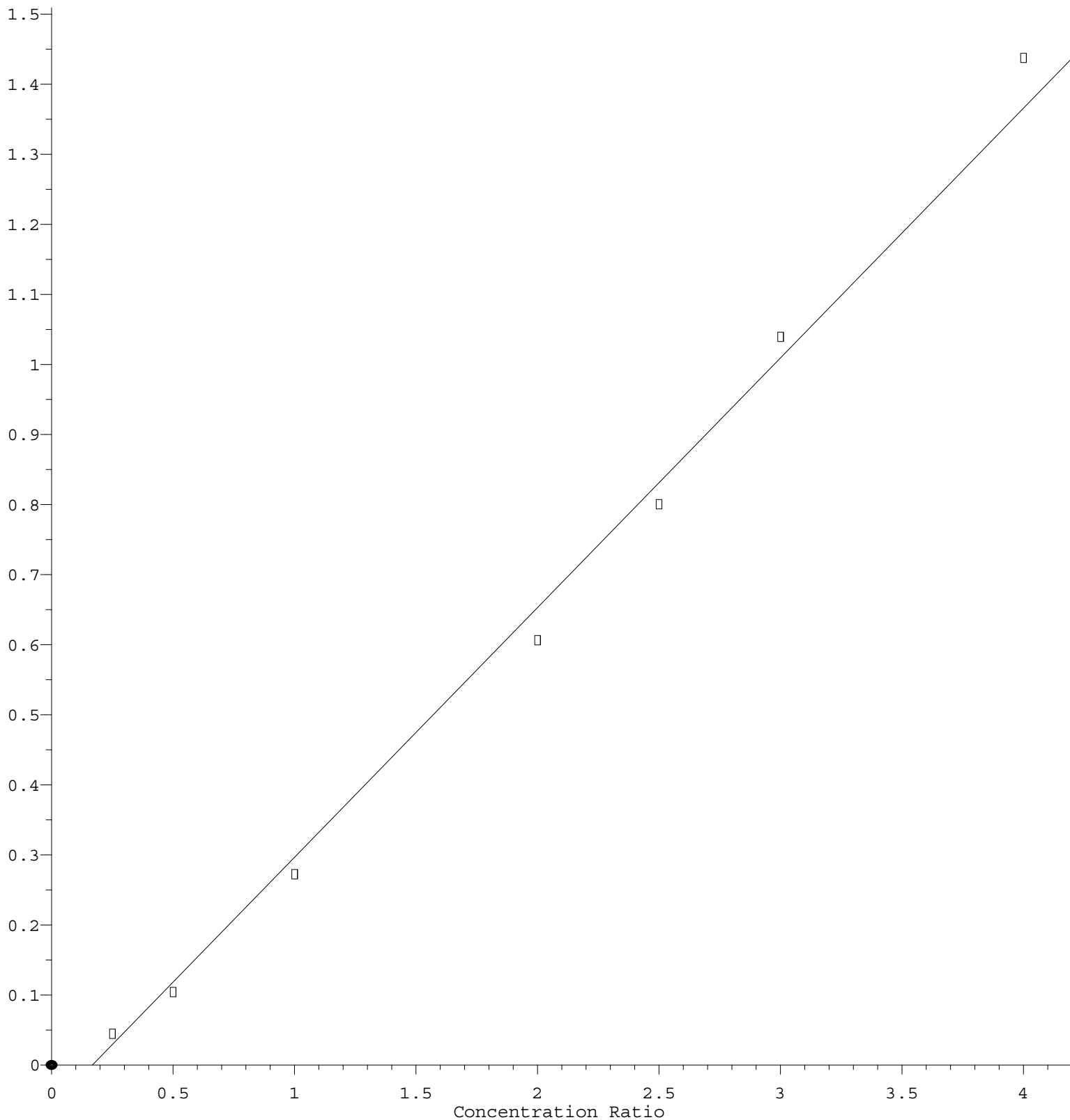
Coef of Det (r^2) = 0.999061 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M

Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

Butylbenzylphthalate

Response Ratio



$$\text{Response} = 3.564\text{e-}001 * \text{Amt} - 5.972\text{e-}002$$

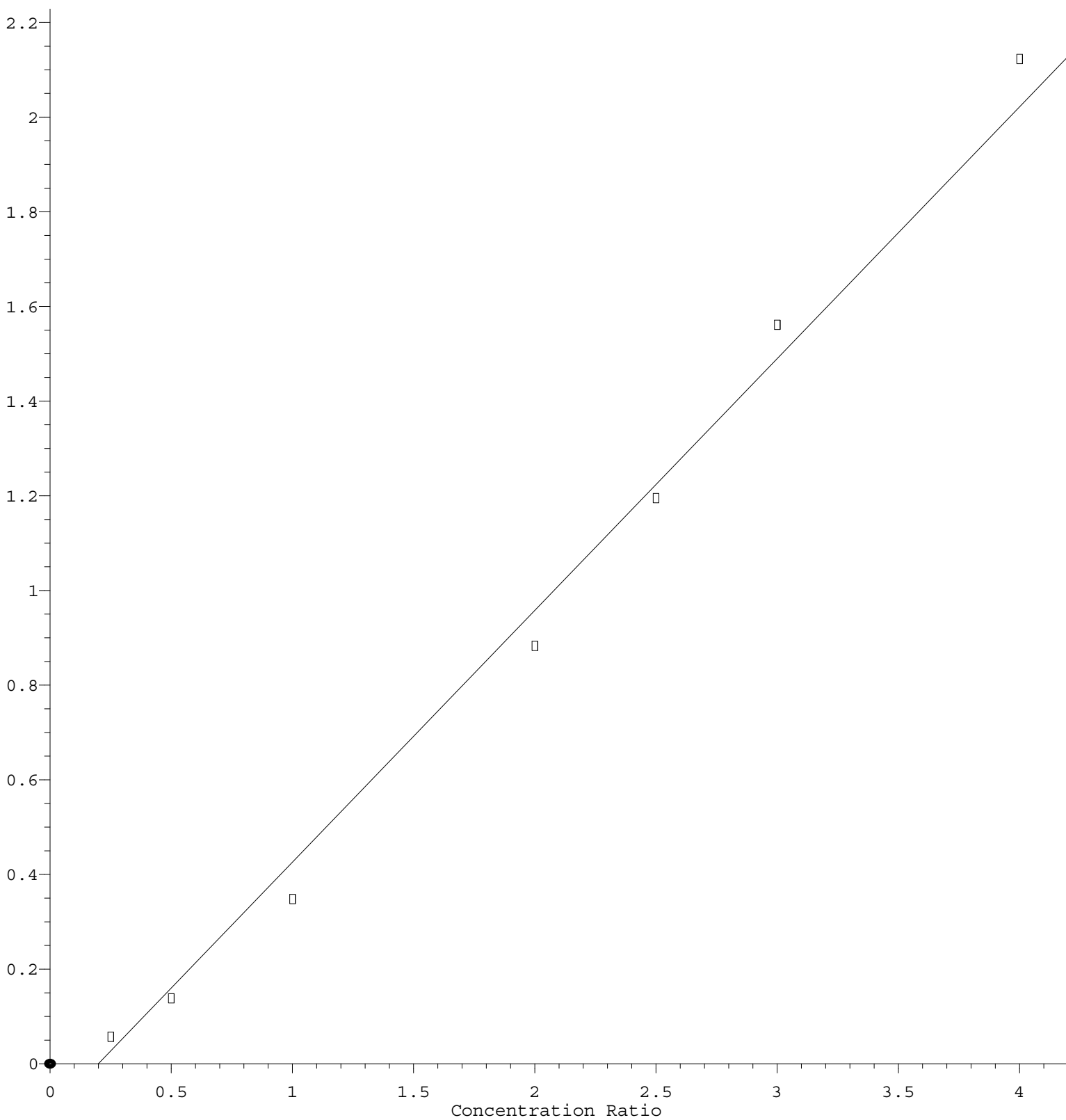
Coef of Det (r^2) = 0.994780 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M

Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 5.319\text{e-}001 * \text{Amt} - 1.061\text{e-}001$$

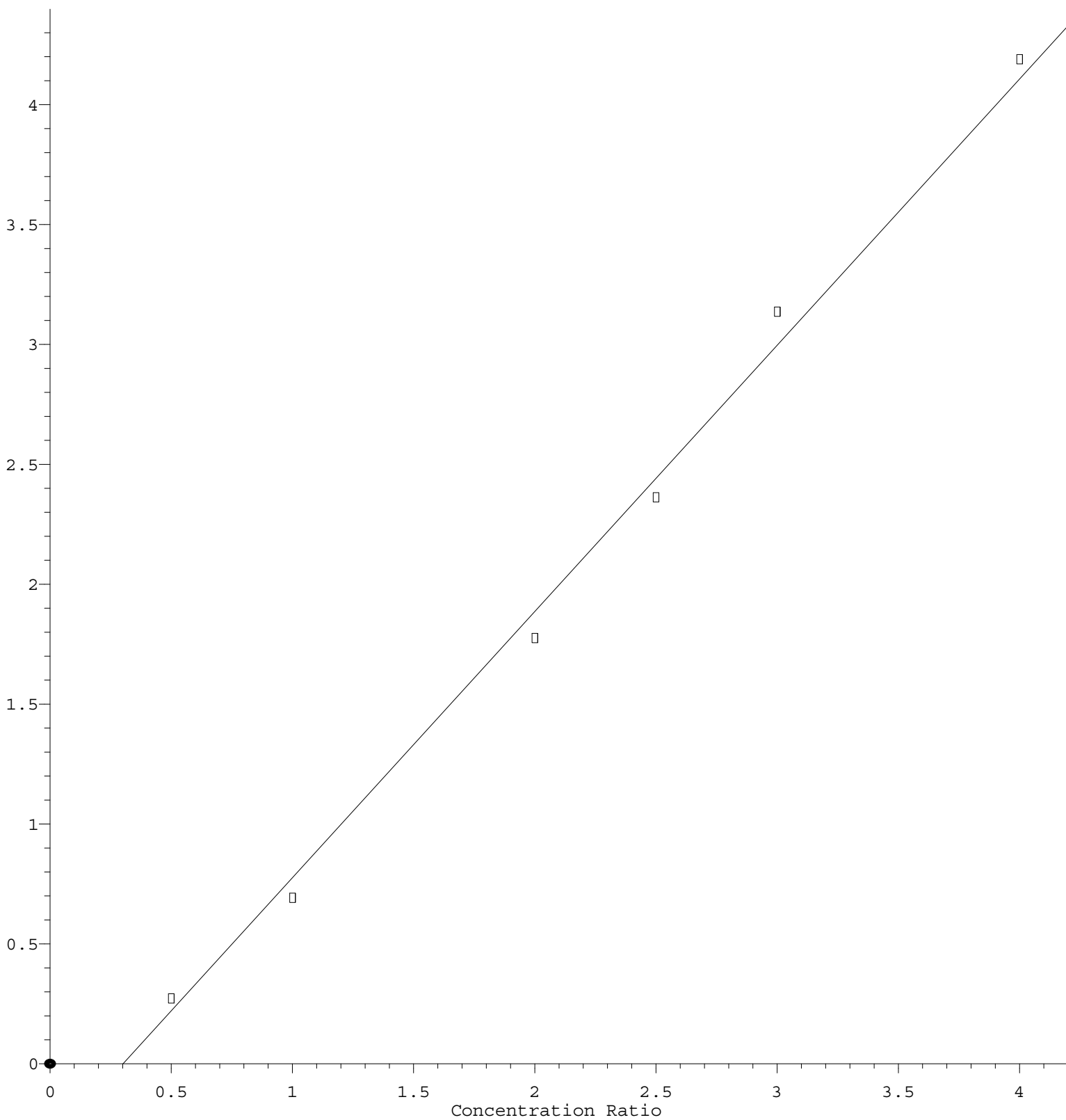
Coef of Det (r^2) = 0.991563 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M

Calibration Table Last Updated: Tue Aug 12 13:25:39 2025

Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.110\text{e}+000 * \text{Amt} - 3.345\text{e}-001$$

Coef of Det (r^2) = 0.995260 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF081225.M

Calibration Table Last Updated: Tue Aug 12 13:25:39 2025