

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP123024.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Dec 30 16:39:09 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BP023582.D 5 =BP023583.D 10 =BP023584.D 20 =BP023585.D 40 =BP023586.D 50 =BP023587.D 60 =BP023588.D 80 =BP023589.D

Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane	0.559	0.519	0.522	0.494	0.508	0.510	0.491	0.515	4.41	
3) Pyridine	1.440	1.409	1.499	1.460	1.509	1.536	1.507	1.480	3.03	
4) n-Nitrosodimet...	0.490	0.490	0.509	0.502	0.510	0.526	0.502	0.504	2.50	
5) S 2-Fluorophenol	1.254	1.225	1.290	1.268	1.304	1.338	1.289	1.281	2.85	
6) Aniline	1.523	1.584	1.619	1.560	1.577	1.606	1.482	1.564	3.07	
7) S Phenol-d6	1.641	1.671	1.748	1.751	1.779	1.852	1.777	1.746	4.05	
8) 2-Chlorophenol	1.331	1.344	1.388	1.365	1.396	1.435	1.374	1.376	2.51	
9) Benzaldehyde	1.185	1.139	1.070	0.879	0.828	0.749		0.975	18.47	
10) C Phenol	1.699	1.725	1.775	1.771	1.806	1.861	1.793	1.776	3.00	
11) bis(2-Chloroet...	1.390	1.414	1.442	1.407	1.415	1.462	1.400	1.419	1.76	
12) 1,3-Dichlorobe...	1.652	1.633	1.619	1.551	1.573	1.597	1.520	1.592	2.96	
13) C 1,4-Dichlorobe...	1.701	1.641	1.649	1.566	1.581	1.626	1.541	1.615	3.44	
14) 1,2-Dichlorobe...	1.615	1.569	1.586	1.508	1.531	1.562	1.482	1.550	2.98	
15) Benzyl Alcohol	1.031	1.072	1.139	1.148	1.166	1.223	1.166	1.135	5.64	
16) 2,2'-oxybis(1-...	1.454	1.493	1.486	1.427	1.440	1.477	1.386	1.452	2.61	
17) 2-Methylphenol	1.075	1.102	1.158	1.159	1.176	1.209	1.164	1.149	3.96	
18) Hexachloroethane	0.593	0.579	0.580	0.564	0.568	0.591	0.560	0.576	2.25	
19) P n-Nitroso-di-n...	1.063	1.040	1.117	1.143	1.118	1.112	1.154	1.077	1.103	3.59
20) 3+4-Methylphenols	1.358	1.475	1.560	1.568	1.627	1.682	1.610	1.554	6.93	
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone	0.529	0.525	0.535	0.513	0.517	0.528	0.505	0.522	1.99	
23) S Nitrobenzene-d5	0.327	0.334	0.360	0.356	0.368	0.374	0.362	0.354	4.91	
24) Nitrobenzene	0.348	0.358	0.379	0.370	0.377	0.387	0.372	0.370	3.56	
25) Isophorone	0.679	0.703	0.731	0.704	0.713	0.739	0.702	0.710	2.84	
26) C 2-Nitrophenol	0.075	0.079	0.102	0.123	0.136	0.151	0.154	0.117	27.71	
27) 2,4-Dimethylph...	0.217	0.214	0.232	0.224	0.228	0.239	0.231	0.226	3.86	
28) bis(2-Chloroet...	0.436	0.441	0.458	0.439	0.444	0.461	0.443	0.446	2.20	
29) C 2,4-Dichloroph...	0.241	0.258	0.289	0.294	0.303	0.317	0.306	0.287	9.61	
30) 1,2,4-Trichlor...	0.351	0.335	0.344	0.332	0.337	0.345	0.337	0.340	1.94	
31) Naphthalene	1.134	1.099	1.125	1.080	1.084	1.111	1.066	1.100	2.25	
32) Benzoic acid		0.091	0.113	0.151	0.180	0.204	0.211	0.158	30.99	
33) 4-Chloroaniline	0.393	0.405	0.419	0.408	0.410	0.422	0.403	0.408	2.41	
34) C Hexachlorobuta...	0.207	0.192	0.199	0.191	0.195	0.202	0.195	0.197	2.85	
35) Caprolactam	0.091	0.102	0.115	0.115	0.117	0.122	0.118	0.111	9.87	
36) C 4-Chloro-3-met...	0.259	0.295	0.328	0.332	0.342	0.359	0.345	0.323	10.66	
37) 2-Methylnaphth...	0.747	0.743	0.770	0.741	0.762	0.787	0.750	0.757	2.23	
38) 1-Methylnaphth...	0.738	0.739	0.756	0.734	0.743	0.763	0.733	0.744	1.54	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP123024.M

39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.566	0.544	0.567	0.549	0.574	0.588	0.564	0.565	2.66
41) P	Hexachlorocycl...	0.151	0.146	0.158	0.161	0.170	0.175	0.169	0.161	6.51
42) S	2,4,6-Tribromo...	0.176	0.205	0.231	0.246	0.259	0.253	0.249	0.231	13.08
43) C	2,4,6-Trichlor...	0.260	0.281	0.330	0.349	0.366	0.387	0.378	0.336	14.54
44)	2,4,5-Trichlor...	0.298	0.330	0.387	0.400	0.417	0.440	0.420	0.385	13.43
45) S	2-Fluorobiphenyl	1.445	1.401	1.443	1.355	1.377	1.380	1.138	1.363	7.69
46)	1,1'-Biphenyl	1.546	1.481	1.540	1.465	1.508	1.533	1.460	1.505	2.40
47)	2-Chloronaphth...	1.241	1.178	1.220	1.158	1.187	1.214	1.172	1.196	2.49
48)	2-Nitroaniline	0.180	0.214	0.262	0.289	0.307	0.324	0.318	0.271	20.35
49)	Acenaphthylene	1.728	1.728	1.790	1.723	1.782	1.804	1.717	1.753	2.12
50)	Dimethylphthalate	1.401	1.452	1.468	1.412	1.470	1.509	1.415	1.447	2.72
51)	2,6-Dinitrotol...	0.205	0.255	0.290	0.308	0.318	0.342	0.332	0.293	16.49
52) C	Acenaphthene	1.146	1.144	1.176	1.153	1.181	1.225	1.178	1.172	2.40
53)	3-Nitroaniline	0.224	0.266	0.311	0.325	0.349	0.365	0.356	0.314	16.52
54) P	2,4-Dinitrophenol		0.049	0.060	0.077	0.090	0.106	0.115	0.083	31.21
55)	Dibenzofuran	1.766	1.766	1.799	1.707	1.745	1.798	1.705	1.755	2.20
56) P	4-Nitrophenol		0.187	0.237	0.267	0.290	0.304	0.299	0.264	17.11
57)	2,4-Dinitrotol...	0.218	0.287	0.360	0.404	0.431	0.455	0.446	0.372	24.06
58)	Fluorene	1.458	1.495	1.543	1.462	1.499	1.511	1.425	1.485	2.64
59)	2,3,4,6-Tetrac...	0.244	0.279	0.320	0.331	0.345	0.366	0.359	0.320	13.85
60)	Diethylphthalate	1.438	1.481	1.508	1.485	1.520	1.563	1.464	1.494	2.72
61)	4-Chlorophenyl...	0.701	0.715	0.743	0.702	0.729	0.748	0.707	0.721	2.68
62)	4-Nitroaniline	0.243	0.298	0.358	0.368	0.389	0.402	0.392	0.350	16.73
63)	Azobenzene	1.378	1.411	1.451	1.388	1.419	1.445	1.351	1.406	2.56
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.036	0.047	0.066	0.074	0.087	0.089	0.066	32.41
66) c	n-Nitrosodiphe...	0.601	0.599	0.616	0.602	0.608	0.619	0.589	0.605	1.71
67)	4-Bromophenyl-...	0.206	0.212	0.215	0.216	0.218	0.218	0.205	0.213	2.53
68)	Hexachlorobenzene	0.259	0.258	0.261	0.259	0.259	0.273	0.259	0.261	2.08
69)	Atrazine	0.184	0.188	0.178	0.153	0.147	0.141	0.121	0.159	15.79
70) C	Pentachlorophenol		0.110	0.136	0.154	0.160	0.173	0.171	0.151	16.03
71)	Phenanthrene	1.079	1.074	1.093	1.078	1.068	1.089	0.976	1.065	3.79
72)	Anthracene	1.019	1.020	1.071	1.050	1.048	1.064	0.982	1.036	3.00
73)	Carbazole	1.050	1.048	1.074	1.069	1.075	1.088	1.024	1.061	2.04
74)	Di-n-butylphth...	1.063	1.192	1.245	1.270	1.285	1.195	0.964	1.174	10.08
75) C	Fluoranthene	1.269	1.271	1.310	1.300	1.279	1.249	1.057	1.248	6.93
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.281	0.290	0.388	0.377	0.365	0.359	0.339	0.343	12.27
78)	Pyrene	1.312	1.339	1.437	1.373	1.368	1.318	1.111	1.323	7.73
79) S	Terphenyl-d14	1.057	1.098	1.130	0.944	0.897	0.774		0.983	13.86
80)	Butylbenzylpht...	0.304	0.383	0.457	0.540	0.562	0.625	0.594	0.495	23.87
81)	Benzo(a)anthra...	1.350	1.353	1.386	1.361	1.348	1.381	1.229	1.344	3.93
82)	3,3'-Dichlorob...	0.382	0.420	0.461	0.478	0.474	0.487	0.462	0.452	8.30
83)	Chrysene	1.258	1.265	1.295	1.255	1.266	1.287	1.215	1.263	2.05
84)	Bis(2-ethylhex...	0.613	0.716	0.798	0.902	0.898	0.977	0.924	0.833	15.60
85) c	Di-n-octyl pht...		1.057	1.183	1.404	1.429	1.554	1.366	1.332	13.56

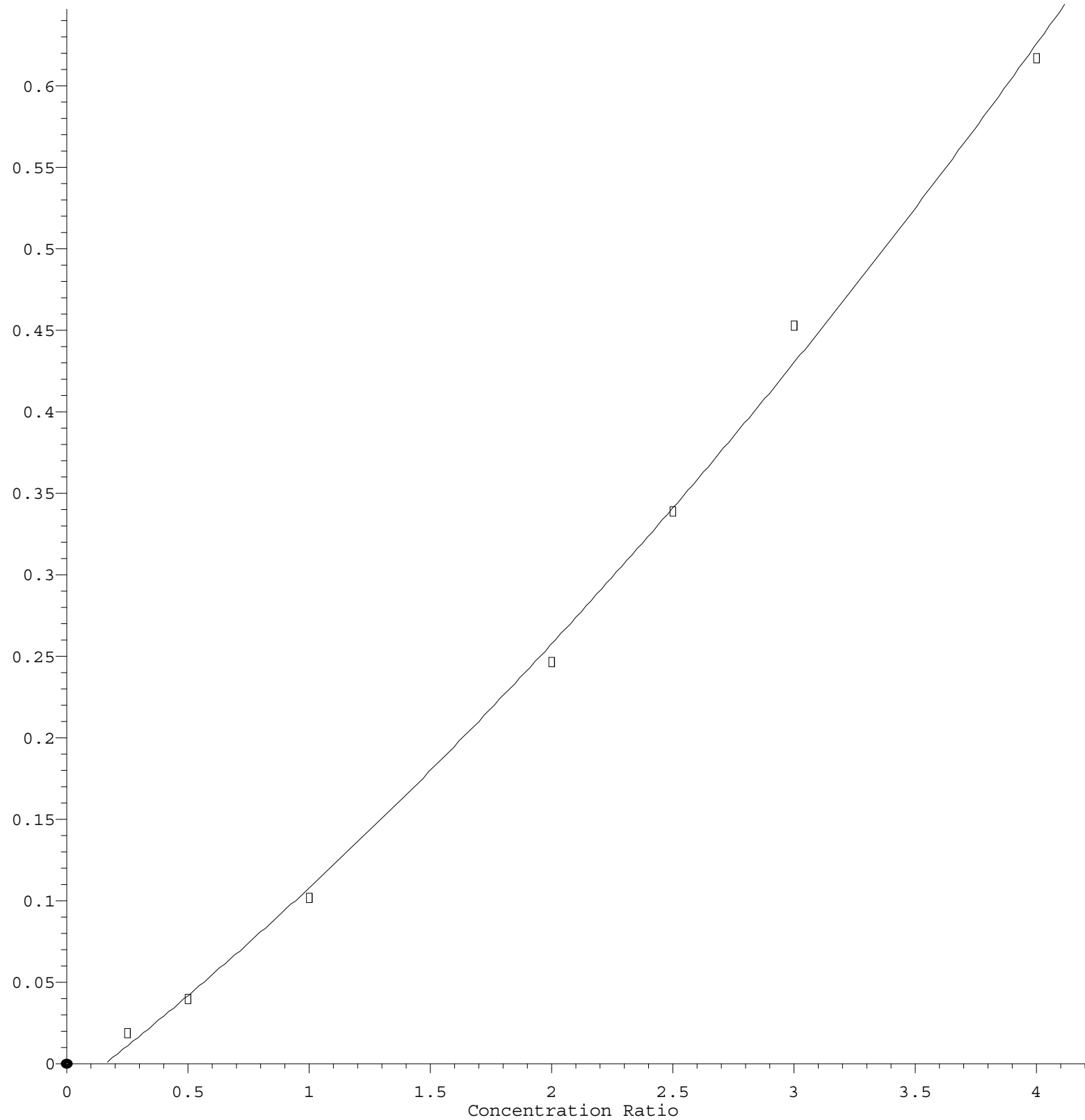
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP123024.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.324	1.328	1.416	1.389	1.461	1.477	1.467	1.409	4.58
88)	Benzo(b)fluora...	1.149	1.193	1.267	1.269	1.283	1.330	1.301	1.256	5.03
89)	Benzo(k)fluora...	1.155	1.174	1.248	1.245	1.243	1.305	1.214	1.226	4.12
90) C	Benzo(a)pyrene	0.974	1.007	1.090	1.091	1.115	1.153	1.122	1.079	5.99
91)	Dibenzo(a,h)an...	1.103	1.103	1.175	1.153	1.216	1.228	1.216	1.171	4.54
92)	Benzo(g,h,i)pe...	1.124	1.114	1.181	1.155	1.204	1.215	1.212	1.172	3.59

(#) = Out of Range

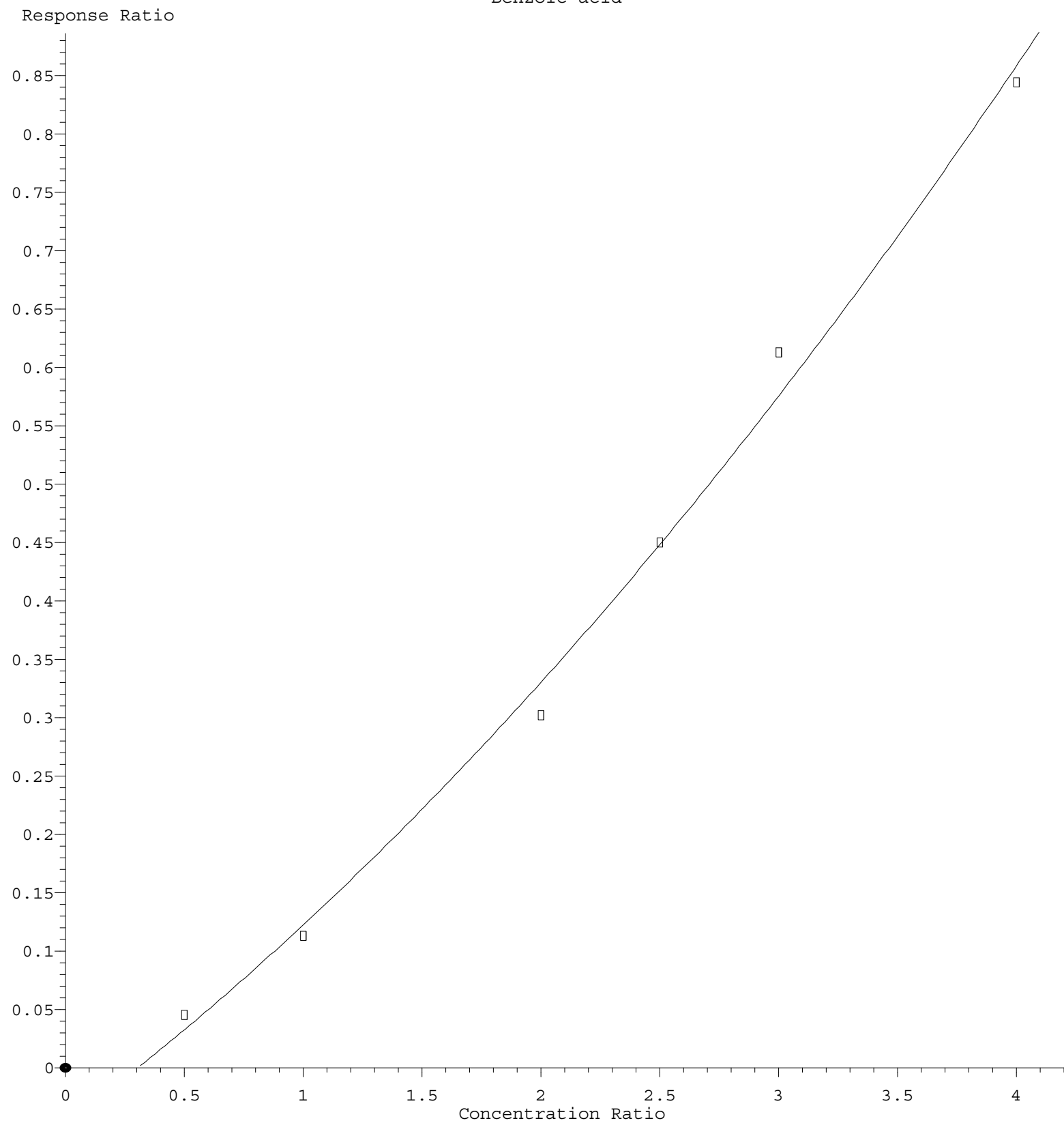
2-Nitrophenol

Response Ratio



$R = 1.148e-002 A^2 + 1.151e-001 A - 1.856e-002$
 Coef of Det (r^2) = 0.997262 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP123024.M
 Calibration Table Last Updated: Mon Dec 30 16:39:09 2024

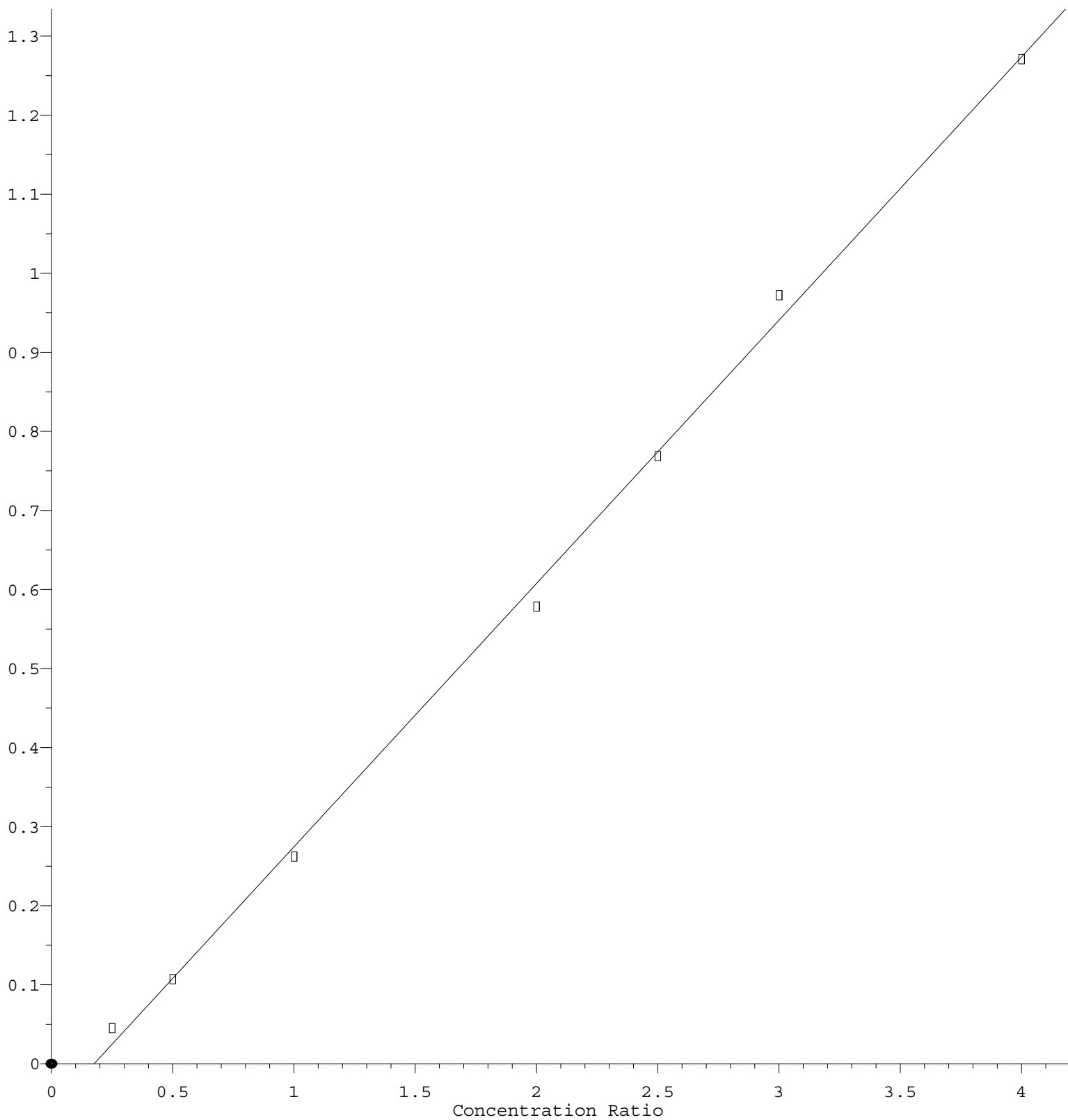
Benzoic acid



$R = 1.875e-002 A^2 + 1.516e-001 A - 4.787e-002$
 Coef of Det (r^2) = 0.994296 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP123024.M
 Calibration Table Last Updated: Mon Dec 30 16:39:09 2024

2-Nitroaniline

Response Ratio



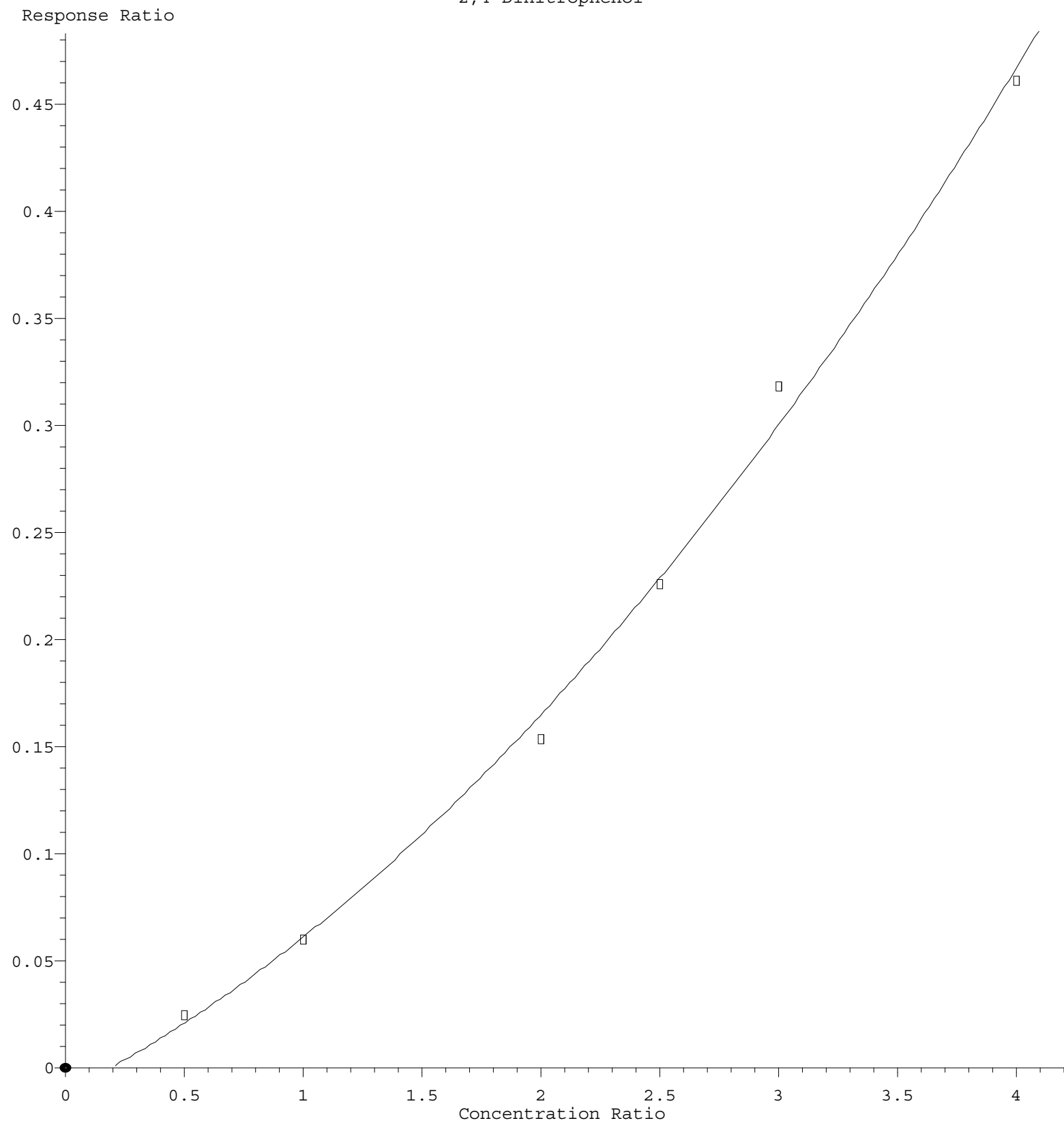
$$\text{Response} = 3.332\text{e-}001 * \text{Amt} - 5.867\text{e-}002$$

Coef of Det (r^2) = 0.998073 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP123024.M

Calibration Table Last Updated: Mon Dec 30 16:39:09 2024

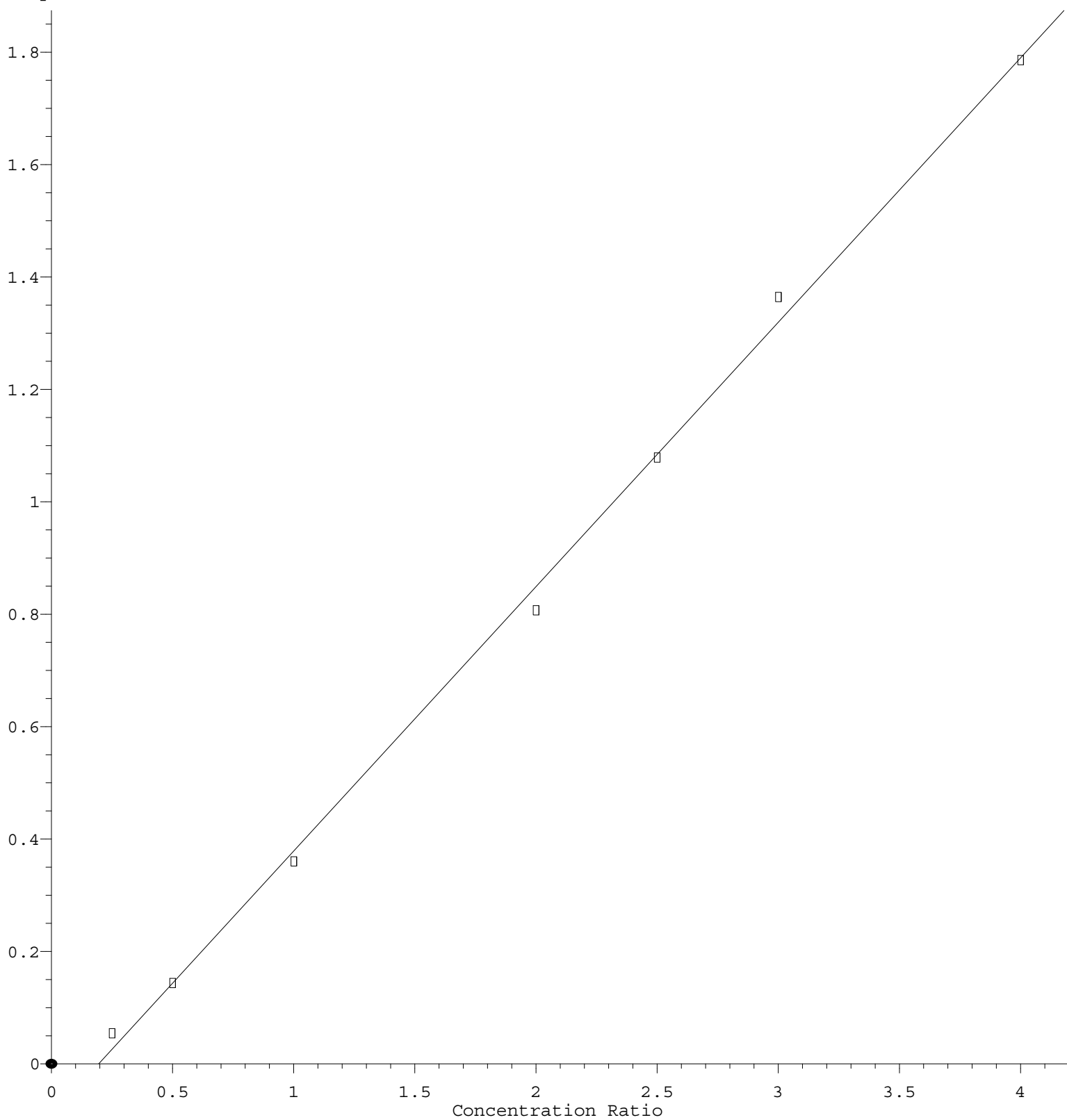
2,4-Dinitrophenol



$R = 1.570e-002 A^2 + 5.683e-002 A - 1.146e-002$
 Coef of Det (r^2) = 0.996210 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP123024.M
 Calibration Table Last Updated: Mon Dec 30 16:39:09 2024

2,4-Dinitrotoluene

Response Ratio



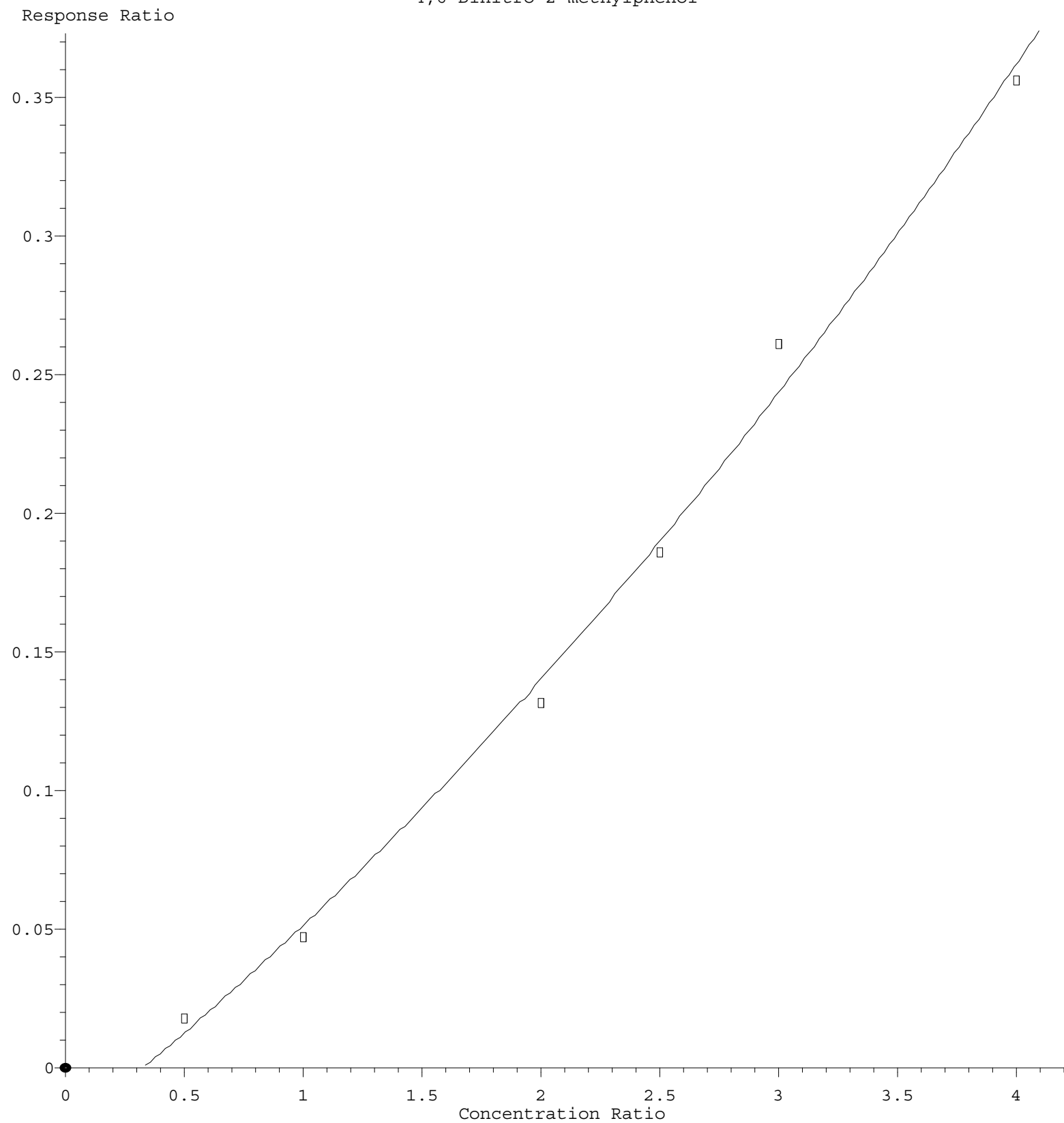
$$\text{Response} = 4.706\text{e-}001 * \text{Amt} - 9.158\text{e-}002$$

Coef of Det (r^2) = 0.998048 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP123024.M

Calibration Table Last Updated: Mon Dec 30 16:39:09 2024

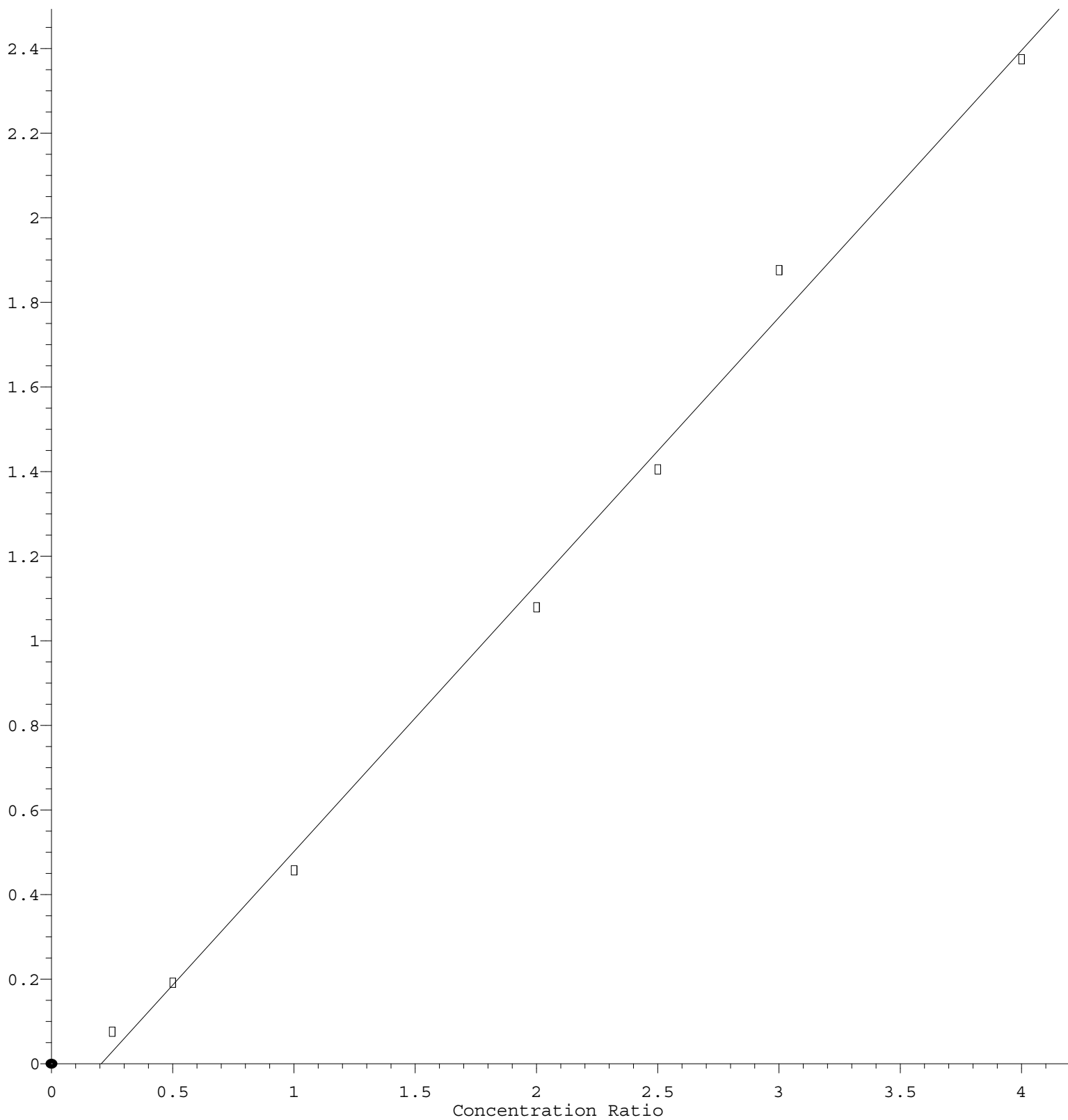
4,6-Dinitro-2-methylphenol



$R = 7.459e-003 A^2 + 6.627e-002 A - 2.238e-002$
 Coef of Det (r^2) = 0.994285 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP123024.M
 Calibration Table Last Updated: Mon Dec 30 16:39:09 2024

Butylbenzylphthalate

Response Ratio



$$\text{Response} = 6.313\text{e-}001 * \text{Amt} - 1.294\text{e-}001$$

Coef of Det (r^2) = 0.995219 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP123024.M

Calibration Table Last Updated: Mon Dec 30 16:39:09 2024