Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Mar 01 12:53:33 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF137439.D 5 =BF137440.D 10 =BF137441.D 20 =BF137442.D 40 =BF137443.D 50 =BF137444.D 60 =BF137445.D 80 =BF1374
46.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.715	0.716	0.764	0.742	0.710	0.725	0.683	0.722	3.53
3)		Pyridine		1.361	1.529	1.895	1.910	1.832	1.879	1.783	1.741	12.21
4)		n-Nitrosodimet...			0.425	0.628	0.700	0.710	0.727	0.722	0.652	17.91
5)	S	2-Fluorophenol		1.221	1.350	1.475	1.380	1.318	1.299	1.200	1.321	7.12
6)		Aniline		2.090	2.322	2.553	2.462	2.343	2.356	2.178	2.329	6.76
7)	S	Phenol-d6		1.987	2.007	2.095	1.924	1.832	1.830	1.670	1.906	7.41
8)		2-Chlorophenol		1.432	1.462	1.537	1.417	1.354	1.326	1.221	1.393	7.37
9)		Benzaldehyde		0.824	0.936	1.041	1.001	0.950	0.931	0.854	0.934	8.13
10)	C	Phenol		2.046	2.142	2.271	2.125	2.004	1.993	1.780	2.052	7.47
11)		bis(2-Chloroet...		1.600	1.380	1.546	1.577	1.523	1.479	1.418	1.503	5.45
12)		1,3-Dichlorobe...		1.559	1.559	1.620	1.505	1.437	1.415	1.323	1.488	6.87
13)	C	1,4-Dichlorobe...		1.659	1.572	1.670	1.544	1.449	1.444	1.323	1.523	8.25
14)		1,2-Dichlorobe...		1.533	1.522	1.553	1.399	1.334	1.286	1.157	1.398	10.61
15)		Benzyl Alcohol		1.046	1.221	1.364	1.272	1.190	1.159	1.054	1.187	9.60
16)		2,2'-oxybis(1-...		2.765	2.745	2.815	2.596	2.486	2.445	2.238	2.584	8.06
17)		2-Methylphenol		1.299	1.348	1.410	1.325	1.277	1.275	1.187	1.303	5.32
18)		Hexachloroethane		0.497	0.502	0.546	0.513	0.493	0.498	0.461	0.501	5.08
19)	P	n-Nitroso-di-n...	1.240	1.246	1.252	1.290	1.161	1.097	1.102	1.029	1.177	7.95
20)		3+4-Methylphenols		1.518	1.665	1.745	1.509	1.408	1.379	1.224	1.493	11.80
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.508	0.525	0.540	0.480	0.467	0.455	0.412	0.484	9.15
23)	S	Nitrobenzene-d5		0.418	0.437	0.471	0.441	0.427	0.424	0.396	0.430	5.37
24)		Nitrobenzene		0.406	0.434	0.465	0.440	0.439	0.435	0.407	0.432	4.70
25)		Isophorone		0.816	0.831	0.862	0.820	0.807	0.816	0.772	0.818	3.29
26)	C	2-Nitrophenol		0.140	0.162	0.182	0.178	0.183	0.184	0.173	0.172	9.25
27)		2,4-Dimethylph...		0.312	0.330	0.351	0.327	0.319	0.316	0.291	0.321	5.65
28)		bis(2-Chloroet...		0.465	0.498	0.522	0.488	0.476	0.472	0.437	0.480	5.55
29)	C	2,4-Dichloroph...		0.279	0.296	0.322	0.302	0.297	0.291	0.273	0.294	5.43
30)		1,2,4-Trichlor...		0.323	0.326	0.332	0.310	0.302	0.299	0.276	0.310	6.26
31)		Naphthalene		1.163	1.163	1.192	1.058	1.028	0.999	0.908	1.073	9.72
32)		Benzoic acid			0.123	0.141	0.165	0.182	0.192	0.200	0.167	17.95
33)		4-Chloroaniline		0.369	0.430	0.467	0.444	0.430	0.428	0.377	0.421	8.42
34)	C	Hexachlorobuta...		0.191	0.191	0.195	0.184	0.177	0.177	0.165	0.183	5.73
35)		Caprolactam		0.095	0.096	0.104	0.102	0.102	0.103	0.097	0.100	3.75
36)	C	4-Chloro-3-met...		0.328	0.335	0.354	0.336	0.325	0.322	0.304	0.329	4.63
37)		2-Methylnaphth...		0.732	0.748	0.760	0.684	0.654	0.635	0.576	0.684	9.84
38)		1-Methylnaphth...		0.704	0.710	0.718	0.635	0.605	0.593	0.544	0.644	10.53

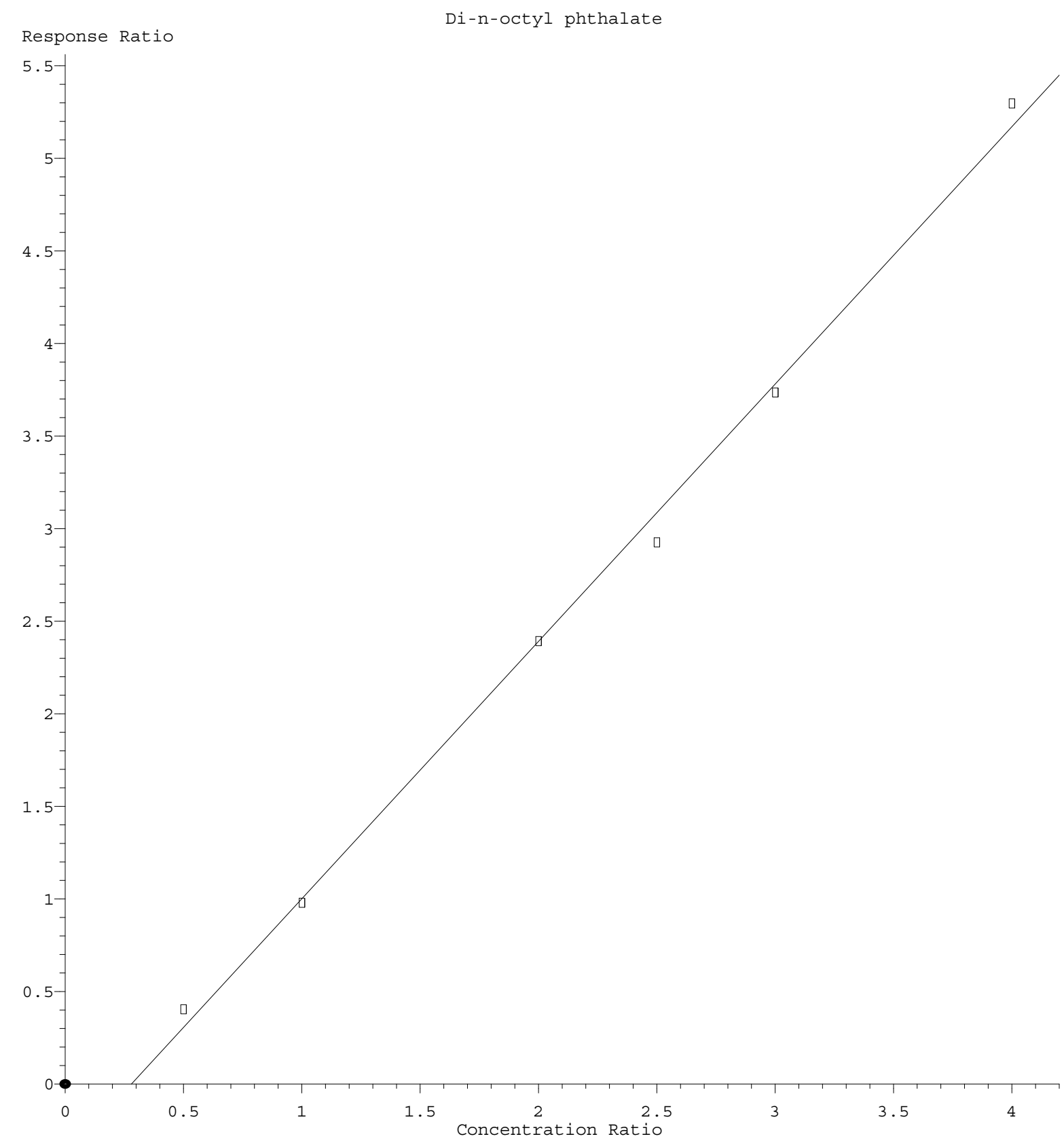
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022924.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.576	0.584	0.609	0.563	0.543	0.535	0.498	0.558	6.51
41)	P	Hexachlorocycl...		0.084	0.141	0.190	0.211	0.222	0.230	0.180	31.56
42)	S	2,4,6-Tribromo...	0.169	0.174	0.187	0.175	0.173	0.179	0.172	0.176	3.27
43)	C	2,4,6-Trichlor...	0.355	0.355	0.387	0.375	0.364	0.364	0.347	0.364	3.76
44)		2,4,5-Trichlor...	0.413	0.398	0.464	0.428	0.417	0.417	0.394	0.419	5.49
45)	S	2-Fluorobiphenyl	1.509	1.467	1.412	1.240	1.157	1.122	1.037	1.278	14.50
46)		1,1'-Biphenyl	1.595	1.586	1.619	1.465	1.379	1.361	1.242	1.464	9.79
47)		2-Chloronaphth...	1.192	1.170	1.217	1.122	1.067	1.053	0.991	1.116	7.40
48)		2-Nitroaniline	0.289	0.345	0.399	0.402	0.411	0.415	0.393	0.379	12.12
49)		Acenaphthylene	1.993	1.932	1.981	1.798	1.679	1.640	1.479	1.786	10.96
50)		Dimethylphthalate	1.476	1.481	1.498	1.378	1.327	1.328	1.256	1.392	6.77
51)		2,6-Dinitrotol...	0.270	0.283	0.315	0.300	0.292	0.298	0.281	0.291	5.08
52)	C	Acenaphthene	1.175	1.160	1.179	1.057	0.997	0.975	0.920	1.066	9.97
53)		3-Nitroaniline	0.269	0.291	0.311	0.329	0.323	0.328	0.305	0.308	7.07
54)	P	2,4-Dinitrophenol		0.044	0.088	0.122	0.131	0.139	0.142	0.111	34.45
55)		Dibenzofuran	1.816	1.800	1.834	1.615	1.513	1.461	1.330	1.624	12.26
56)	P	4-Nitrophenol		0.104	0.181	0.206	0.216	0.221	0.214	0.190	23.56
57)		2,4-Dinitrotol...	0.310	0.356	0.397	0.378	0.370	0.363	0.330	0.358	8.18
58)		Fluorene	1.447	1.420	1.402	1.211	1.129	1.103	1.018	1.247	13.98
59)		2,3,4,6-Tetrac...	0.336	0.346	0.363	0.341	0.329	0.327	0.309	0.336	4.97
60)		Diethylphthalate	1.401	1.415	1.438	1.311	1.250	1.242	1.146	1.315	8.26
61)		4-Chlorophenyl...	0.701	0.682	0.674	0.589	0.564	0.557	0.513	0.611	12.02
62)		4-Nitroaniline	0.217	0.238	0.296	0.273	0.277	0.285	0.267	0.265	10.52
63)		Azobenzene	1.617	1.602	1.647	1.524	1.452	1.424	1.331	1.514	7.70
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.080	0.107	0.117	0.121	0.123	0.120	0.111	14.69
66)	c	n-Nitrosodiphe...	0.669	0.687	0.699	0.636	0.625	0.612	0.581	0.644	6.64
67)		4-Bromophenyl-...	0.213	0.219	0.236	0.221	0.216	0.213	0.206	0.218	4.26
68)		Hexachlorobenzene	0.225	0.225	0.233	0.217	0.217	0.216	0.205	0.220	4.05
69)		Atrazine	0.190	0.199	0.214	0.197	0.195	0.192	0.184	0.196	4.81
70)	C	Pentachlorophenol		0.105	0.133	0.139	0.142	0.142	0.138	0.133	10.71
71)		Phenanthrene	1.206	1.195	1.203	1.058	1.036	0.993	0.929	1.088	10.38
72)		Anthracene	1.203	1.195	1.248	1.088	1.085	1.043	0.963	1.118	9.07
73)		Carbazole	0.998	1.027	1.062	0.952	0.931	0.909	0.823	0.958	8.39
74)		Di-n-butylphth...	1.192	1.203	1.255	1.140	1.116	1.071	0.998	1.139	7.62
75)	C	Fluoranthene	1.208	1.167	1.185	1.030	1.005	0.969	0.884	1.064	11.64
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.375	0.497	0.568	0.541	0.514	0.442	0.489	14.41
78)		Pyrene	1.874	1.929	2.096	2.064	1.969	1.978	1.828	1.962	4.89
79)	S	Terphenyl-d14	1.470	1.472	1.534	1.490	1.441	1.438	1.336	1.454	4.24
80)		Butylbenzylpht...	0.405	0.441	0.506	0.527	0.540	0.561	0.528	0.501	11.40
81)		Benzo(a)anthra...	1.401	1.405	1.519	1.416	1.380	1.392	1.300	1.402	4.58
82)		3,3'-Dichlorob...	0.274	0.318	0.390	0.417	0.398	0.413	0.403	0.373	14.75
83)		Chrysene	1.427	1.407	1.493	1.447	1.384	1.403	1.356	1.417	3.15
84)		Bis(2-ethylhex...	0.540	0.560	0.655	0.677	0.668	0.697	0.662	0.637	9.61
85)	c	Di-n-octyl pht...		0.808	0.979	1.196	1.170	1.245	1.324	1.120	17.07

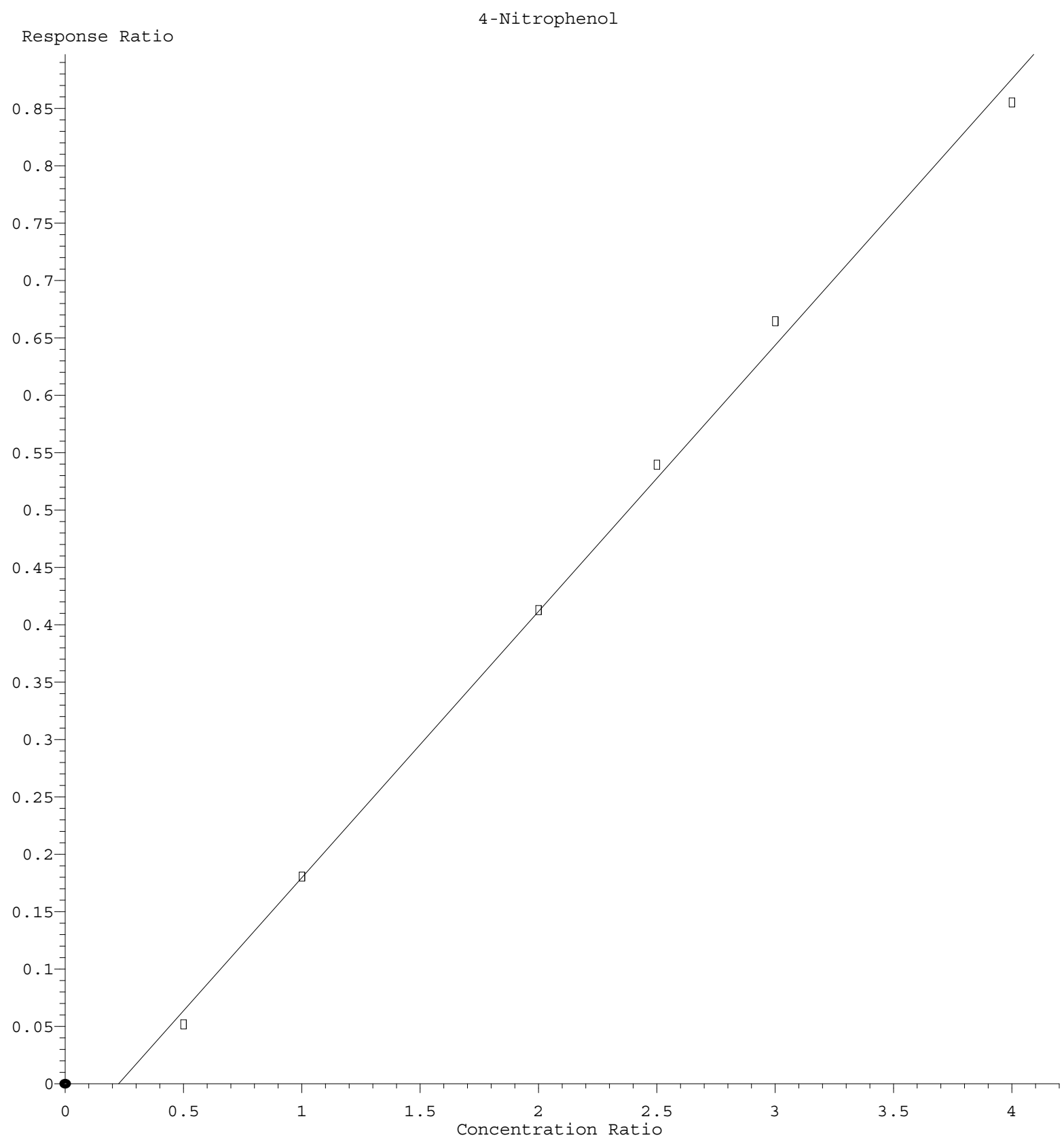
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022924.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.135	1.258	1.395	1.392	1.355	1.373	1.305	1.316	7.16
88)		Benzo(b)fluora...	1.181	1.174	1.292	1.200	1.166	1.178	1.092	1.183	4.97
89)		Benzo(k)fluora...	1.372	1.359	1.352	1.231	1.217	1.234	1.129	1.271	7.22
90)	C	Benzo(a)pyrene	1.115	1.144	1.249	1.210	1.165	1.176	1.102	1.166	4.46
91)		Dibenzo(a,h)an...	0.901	1.008	1.134	1.134	1.101	1.133	1.063	1.068	8.15
92)		Benzo(g,h,i)pe...	0.943	1.030	1.171	1.162	1.132	1.148	1.088	1.096	7.62

(#) = Out of Range



Response = 1.390e+000 * Amt - 3.897e-001
Coef of Det (r^2) = 0.996686 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022924.M
Calibration Table Last Updated: Fri Mar 01 12:53:33 2024



Response = 2.323e-001 * Amt - 5.257e-002
Coef of Det (r^2) = 0.997489 Curve Fit: Linear
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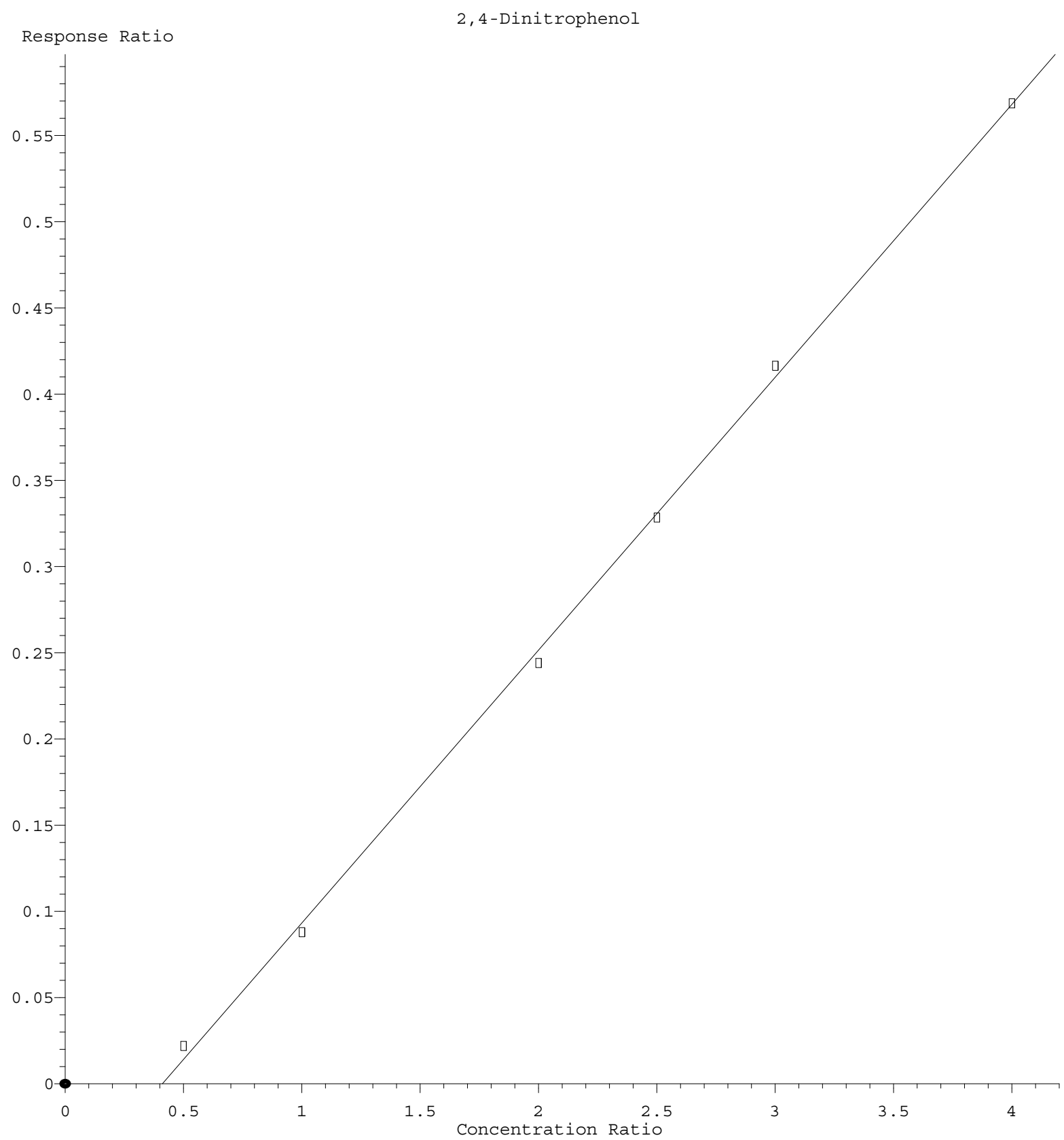
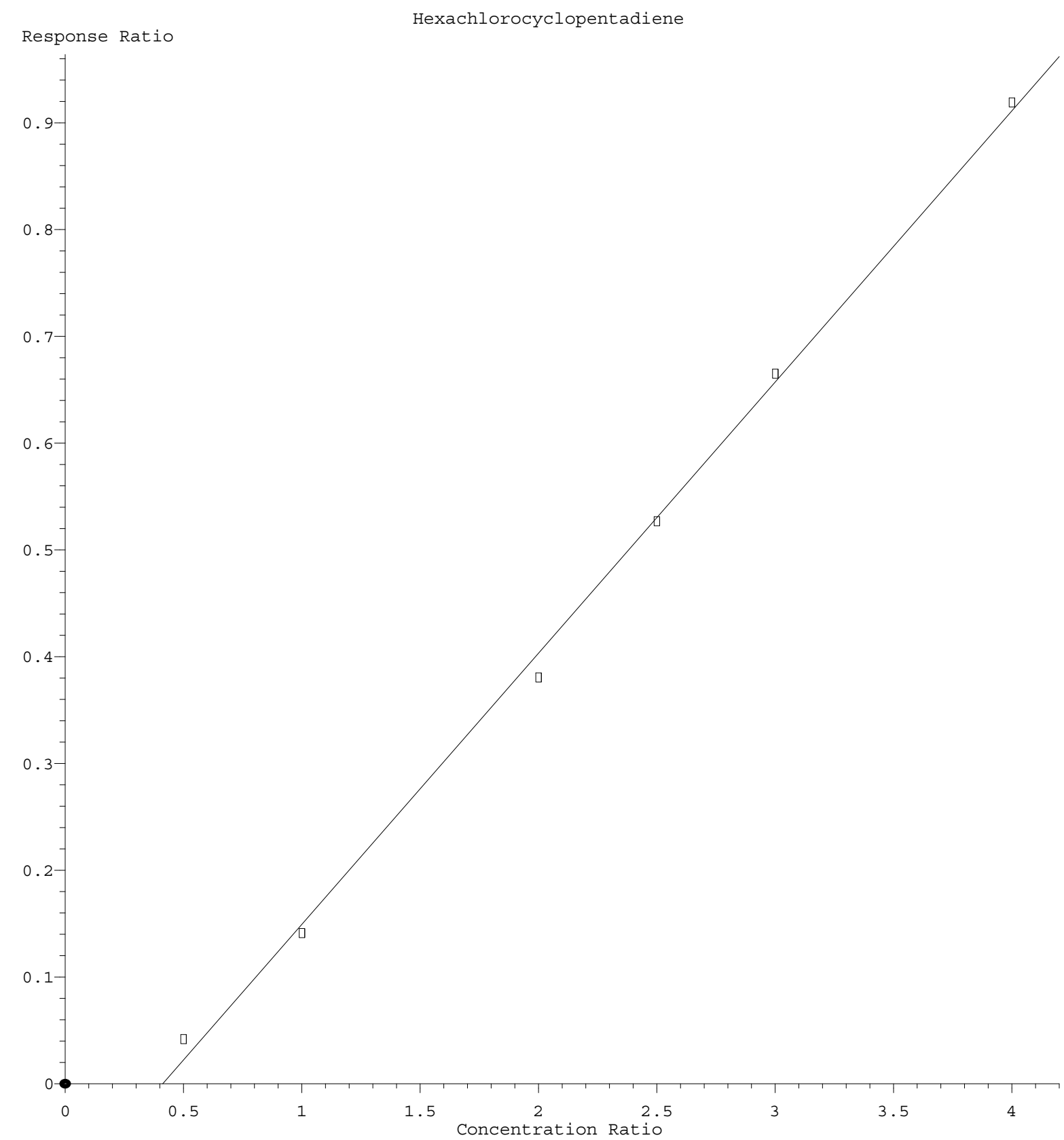
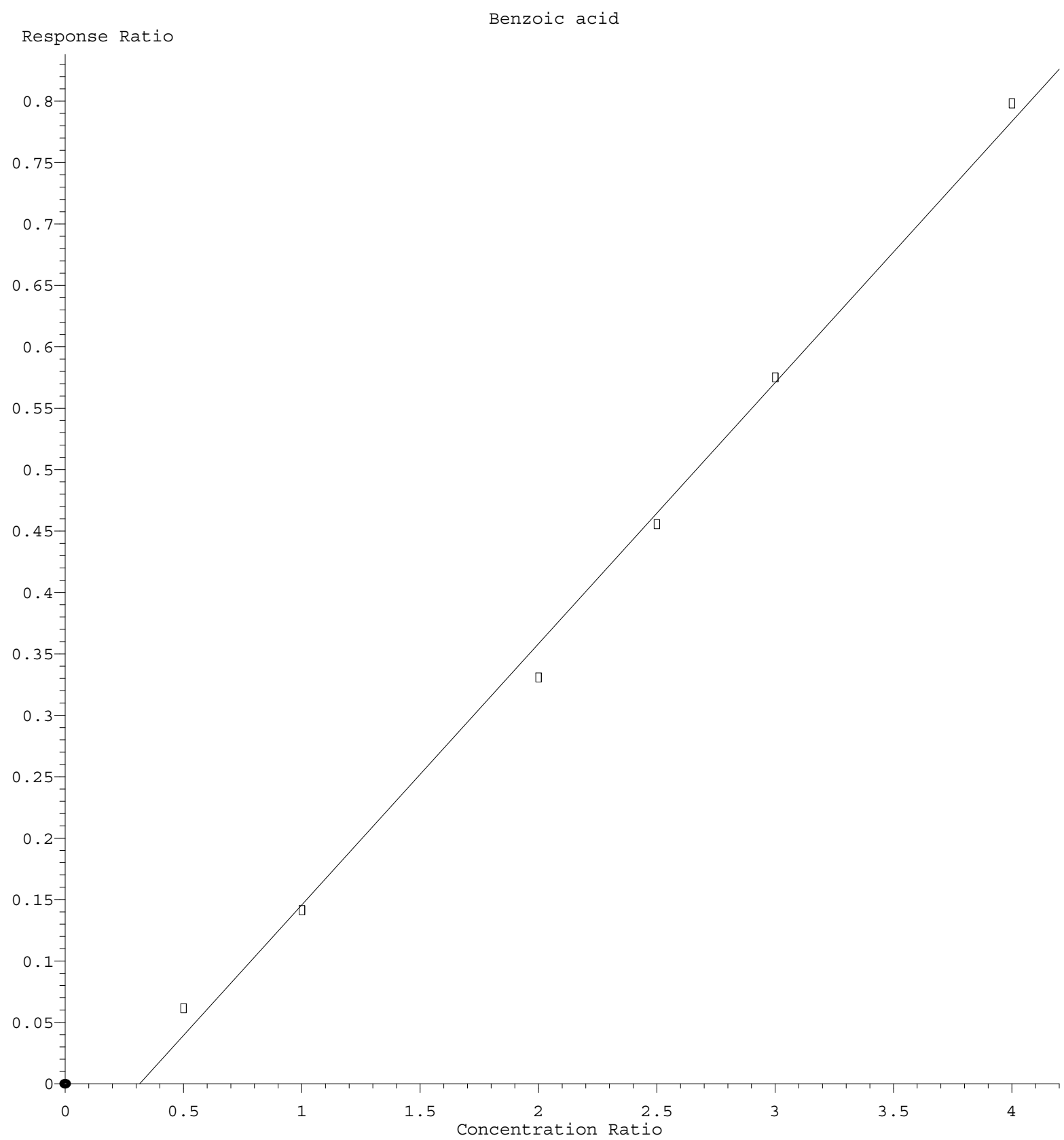
Calibration Table Last Updated: Fri Mar 01 12:53:33 2024



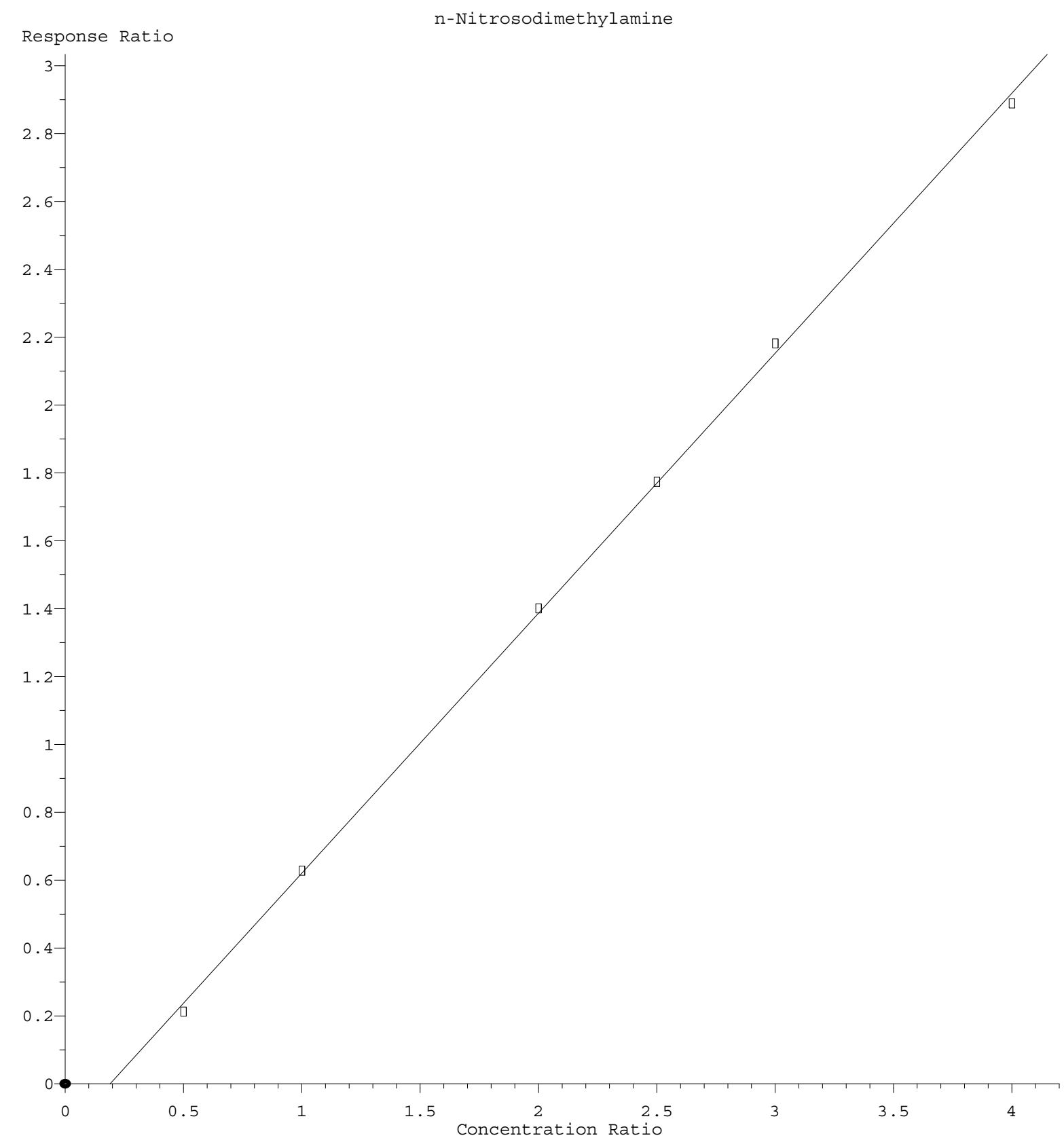
Response = 1.583e-001 * Amt - 6.510e-002
Coef of Det (r^2) = 0.999064 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022924.M
Calibration Table Last Updated: Fri Mar 01 12:53:33 2024



Response = 2.540e-001 * Amt - 1.047e-001
Coef of Det (r^2) = 0.997956 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022924.M
Calibration Table Last Updated: Fri Mar 01 12:53:33 2024



Response = 2.126e-001 * Amt - 6.696e-002
Coef of Det (r^2) = 0.995829 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022924.M
Calibration Table Last Updated: Fri Mar 01 12:53:33 2024



Response = 7.662e-001 * Amt - 1.459e-001
Coef of Det (r^2) = 0.999464 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022924.M
Calibration Table Last Updated: Fri Mar 01 12:53:33 2024