

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG072823.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jul 28 22:29:07 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BG058510.D 5 =BG058511.D 10 =BG058512.D 20 =BG058513.D 40 =BG058514.D 50 =BG058515.D 60 =BG058516.D 80 =BG058517.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.672	0.707	0.678	0.630	0.591	0.604	0.556	0.634	8.50	
3)	Pyridine	1.800	1.767	1.861	1.755	1.648	1.690	1.580	1.729	5.53	
4)	n-Nitrosodimet...	0.778	0.762	0.788	0.737	0.693	0.707	0.662	0.732	6.39	
5) S	2-Fluorophenol	1.394	1.389	1.419	1.318	1.230	1.250	1.159	1.309	7.52	
6)	Aniline	2.285	2.268	2.387	2.318	2.168	2.190	2.076	2.242	4.64	
7) S	Phenol-d6	1.923	1.870	1.962	1.855	1.737	1.759	1.639	1.821	6.25	
8)	2-Chlorophenol	1.347	1.329	1.393	1.290	1.220	1.247	1.160	1.284	6.25	
9)	Benzaldehyde		1.165	1.118	0.948	0.861	0.854		0.989	14.64	
10) C	Phenol	1.838	1.857	1.912	1.818	1.691	1.730	1.606	1.779	6.03	
11)	bis(2-Chloroet...	1.536	1.455	1.465	1.387	1.344	1.374	1.256	1.402	6.54	
12)	1,3-Dichlorobe...	1.463	1.456	1.500	1.367	1.287	1.307	1.216	1.371	7.74	
13) C	1,4-Dichlorobe...	1.503	1.446	1.479	1.376	1.288	1.328	1.215	1.376	7.71	
14)	1,2-Dichlorobe...	1.412	1.419	1.431	1.315	1.229	1.250	1.155	1.316	8.27	
15)	Benzyl Alcohol	0.934	1.098	1.224	1.234	1.182	1.235	1.176	1.155	9.38	
16)	2,2'-oxybis(1-...	2.403	2.394	2.421	2.272	2.178	2.198	2.077	2.278	5.85	
17)	2-Methylphenol	1.349	1.379	1.373	1.313	1.238	1.261	1.189	1.300	5.58	
18)	Hexachloroethane	0.544	0.523	0.528	0.500	0.474	0.484	0.450	0.500	6.68	
19) P	n-Nitroso-di-n...	1.237	1.220	1.214	1.251	1.181	1.113	1.134	1.058	1.176	5.77
20)	3+4-Methylphenols		1.733	1.744	1.898	1.830	1.721	1.752	1.635	1.759	4.77
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.540	0.539	0.577	0.548	0.517	0.526	0.502	0.536	4.48	
23) S	Nitrobenzene-d5	0.402	0.406	0.434	0.416	0.393	0.409	0.389	0.407	3.73	
24)	Nitrobenzene	0.395	0.427	0.440	0.423	0.401	0.415	0.396	0.414	4.17	
25)	Isophorone	0.847	0.868	0.883	0.851	0.808	0.830	0.801	0.841	3.57	
26) C	2-Nitrophenol	0.163	0.172	0.185	0.189	0.181	0.189	0.182	0.180	5.27	
27)	2,4-Dimethylph...	0.289	0.295	0.317	0.308	0.293	0.298	0.292	0.299	3.39	
28)	bis(2-Chloroet...	0.433	0.467	0.485	0.475	0.446	0.462	0.436	0.458	4.34	
29) C	2,4-Dichloroph...	0.294	0.305	0.326	0.323	0.302	0.315	0.307	0.310	3.76	
30)	1,2,4-Trichlor...	0.370	0.363	0.376	0.363	0.343	0.352	0.337	0.358	4.05	
31)	Naphthalene	1.104	1.108	1.122	1.062	0.997	1.025	0.960	1.054	5.89	
32)	Benzoic acid		0.130	0.180	0.236	0.224	0.241	0.233	0.207	21.11	
33)	4-Chloroaniline	0.395	0.433	0.464	0.476	0.441	0.463	0.445	0.445	6.01	
34) C	Hexachlorobuta...	0.238	0.229	0.246	0.232	0.219	0.229	0.220	0.230	4.05	
35)	Caprolactam	0.110	0.121	0.120	0.119	0.109	0.113	0.111	0.115	4.54	
36) C	4-Chloro-3-met...	0.368	0.388	0.406	0.397	0.375	0.384	0.369	0.384	3.73	
37)	2-Methylnaphth...	0.793	0.777	0.796	0.766	0.717	0.733	0.696	0.754	5.17	
38)	1-Methylnaphth...	0.766	0.765	0.757	0.715	0.672	0.693	0.649	0.717	6.61	

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG072823.M

39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.634	0.623	0.642	0.613	0.594	0.615	0.577	0.614	3.65
41) P	Hexachlorocycl...		0.135	0.203	0.249	0.264	0.278	0.289	0.236	24.54
42) S	2,4,6-Tribromo...	0.326	0.344	0.346	0.334	0.313	0.326	0.306	0.328	4.51
43) C	2,4,6-Trichlor...	0.411	0.414	0.442	0.435	0.412	0.433	0.409	0.422	3.31
44)	2,4,5-Trichlor...	0.506	0.521	0.493	0.499	0.478	0.505	0.479	0.497	3.12
45) S	2-Fluorobiphenyl	1.469	1.429	1.449	1.313	1.240	1.279	1.163	1.335	8.76
46)	1,1'-Biphenyl	1.422	1.425	1.455	1.370	1.328	1.355	1.258	1.374	4.92
47)	2-Chloronaphth...	1.103	1.102	1.138	1.067	1.026	1.065	0.997	1.071	4.52
48)	2-Nitroaniline	0.364	0.385	0.432	0.427	0.412	0.429	0.411	0.409	6.21
49)	Acenaphthylene	1.890	1.876	1.919	1.802	1.697	1.752	1.615	1.793	6.24
50)	Dimethylphthalate	1.585	1.583	1.595	1.501	1.421	1.468	1.362	1.502	6.03
51)	2,6-Dinitrotol...	0.321	0.338	0.345	0.335	0.319	0.332	0.317	0.330	3.21
52) C	Acenaphthene	1.096	1.077	1.108	1.030	0.981	1.018	0.942	1.036	5.94
53)	3-Nitroaniline	0.281	0.315	0.351	0.347	0.333	0.350	0.331	0.330	7.60
54) P	2,4-Dinitrophenol		0.076	0.120	0.164	0.166	0.188	0.185	0.150	29.14
55)	Dibenzofuran	1.911	1.931	1.899	1.773	1.661	1.711	1.576	1.780	7.77
56) P	4-Nitrophenol		0.161	0.203	0.245	0.228	0.253	0.239	0.222	15.53
57)	2,4-Dinitrotol...	0.415	0.466	0.492	0.473	0.448	0.466	0.439	0.457	5.51
58)	Fluorene	1.561	1.548	1.529	1.397	1.304	1.333	1.227	1.414	9.43
59)	2,3,4,6-Tetrac...	0.431	0.438	0.432	0.430	0.408	0.426	0.408	0.424	2.81
60)	Diethylphthalate	1.626	1.678	1.634	1.527	1.422	1.469	1.355	1.530	7.90
61)	4-Chlorophenyl...	0.850	0.834	0.833	0.782	0.744	0.762	0.714	0.788	6.55
62)	4-Nitroaniline	0.243	0.310	0.329	0.338	0.312	0.336	0.318	0.312	10.37
63)	Azobenzene	1.594	1.615	1.605	1.515	1.416	1.456	1.350	1.507	6.88
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.083	0.103	0.118	0.115	0.123	0.119	0.110	13.45
66) c	n-Nitrosodiphe...	0.533	0.535	0.564	0.522	0.502	0.508	0.481	0.521	5.16
67)	4-Bromophenyl-...	0.230	0.230	0.236	0.227	0.220	0.228	0.217	0.227	2.76
68)	Hexachlorobenzene	0.251	0.245	0.253	0.238	0.232	0.239	0.226	0.240	4.13
69)	Atrazine	0.191	0.197	0.195	0.176	0.161	0.159	0.151	0.176	10.72
70) C	Pentachlorophenol		0.110	0.139	0.155	0.152	0.161	0.156	0.145	13.09
71)	Phenanthrene	1.024	1.019	1.023	0.943	0.883	0.910	0.838	0.948	7.99
72)	Anthracene	1.041	1.042	1.051	0.975	0.911	0.937	0.857	0.973	7.73
73)	Carbazole	0.846	0.913	0.928	0.885	0.812	0.849	0.775	0.858	6.34
74)	Di-n-butylphth...	1.080	1.164	1.168	1.098	1.013	1.050	0.953	1.075	7.24
75) C	Fluoranthene	1.202	1.245	1.230	1.156	1.048	1.099	0.996	1.139	8.32
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.279	0.303	0.242	0.370	0.317	0.298	0.314	0.303	12.82
78)	Pyrene	1.438	1.453	1.447	1.362	1.287	1.320	1.219	1.361	6.65
79) S	Terphenyl-d14	1.178	1.169	1.153	1.051	0.985	1.001	0.907	1.064	9.94
80)	Butylbenzylpht...	0.554	0.568	0.585	0.571	0.550	0.561	0.525	0.559	3.36
81)	Benzo(a)anthra...	1.430	1.443	1.436	1.386	1.311	1.362	1.267	1.376	4.91
82)	3,3'-Dichlorob...	0.440	0.478	0.490	0.481	0.453	0.472	0.444	0.465	4.22
83)	Chrysene	1.361	1.397	1.393	1.325	1.258	1.291	1.212	1.320	5.30
84)	Bis(2-ethylhex...	0.834	0.849	0.866	0.833	0.783	0.809	0.746	0.817	5.05
85) c	Di-n-octyl pht...	1.450	1.466	1.501	1.467	1.393	1.443	1.335	1.436	3.85

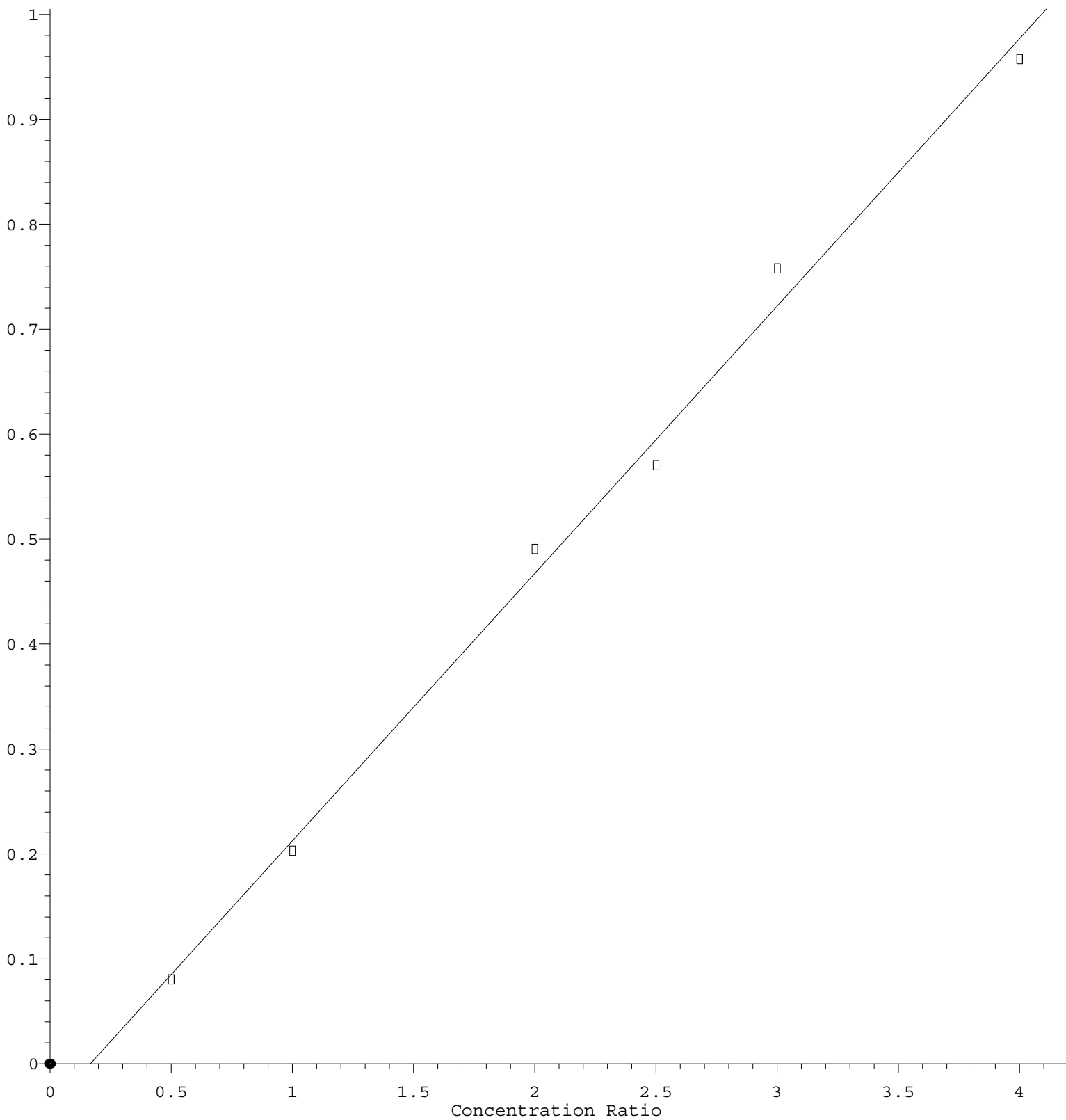
Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.307	1.349	1.386	1.367	1.288	1.345	1.271	1.331	3.19
88)	Benzo(b)fluora...	1.109	1.117	1.149	1.117	1.041	1.067	0.993	1.085	4.96
89)	Benzo(k)fluora...	1.133	1.139	1.148	1.103	1.023	1.075	1.007	1.090	5.21
90) C	Benzo(a)pyrene	1.079	1.086	1.113	1.088	1.021	1.065	1.004	1.065	3.67
91)	Dibenzo(a,h)an...	1.077	1.127	1.148	1.129	1.059	1.114	1.048	1.100	3.54
92)	Benzo(g,h,i)pe...	1.089	1.122	1.151	1.128	1.060	1.113	1.059	1.103	3.18

(#) = Out of Range

4-Nitrophenol

Response Ratio



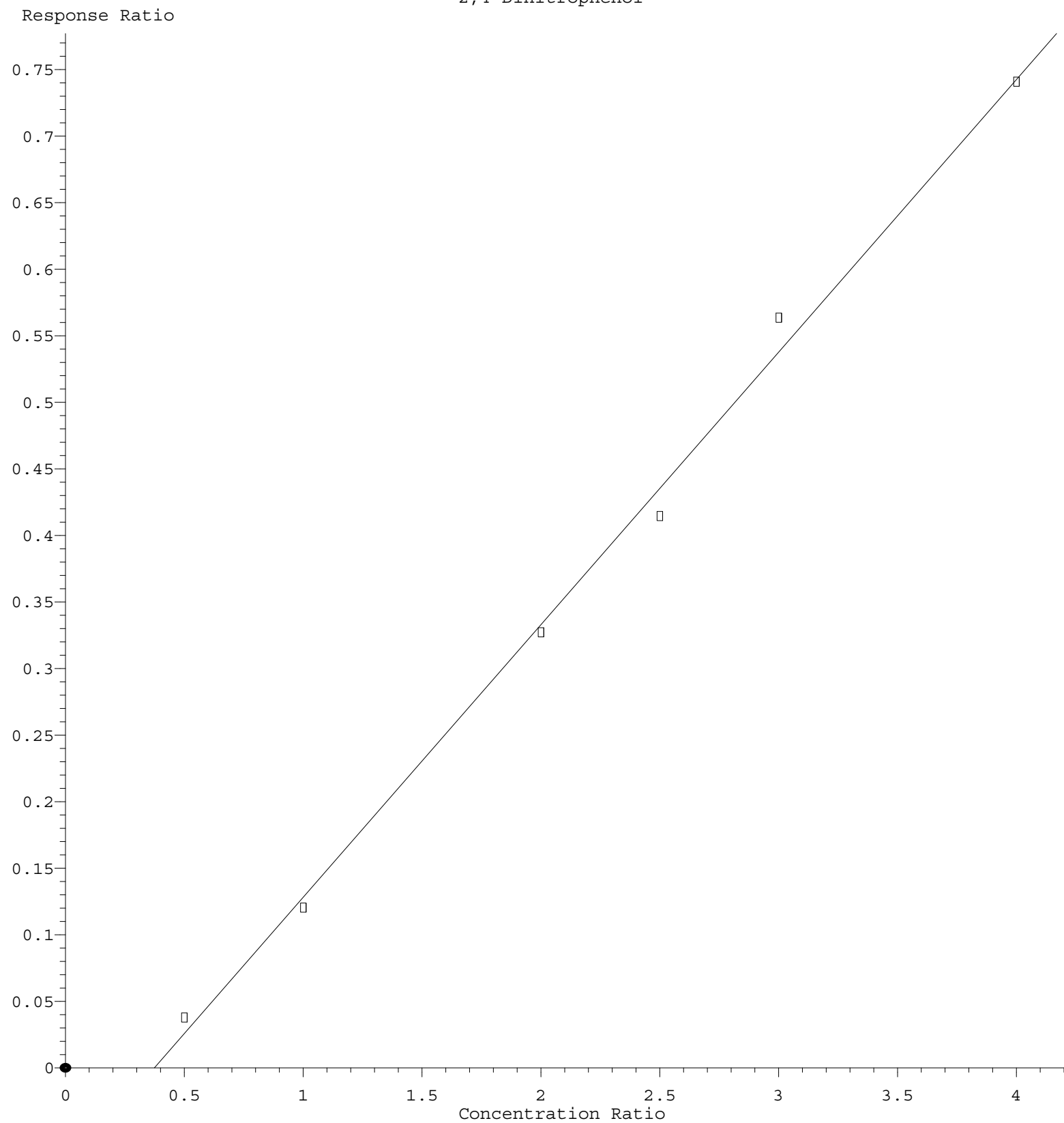
$$\text{Response} = 2.549\text{e-}001 * \text{Amt} - 4.238\text{e-}002$$

Coef of Det (r^2) = 0.994656 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG072823.M

Calibration Table Last Updated: Fri Jul 28 22:29:07 2023

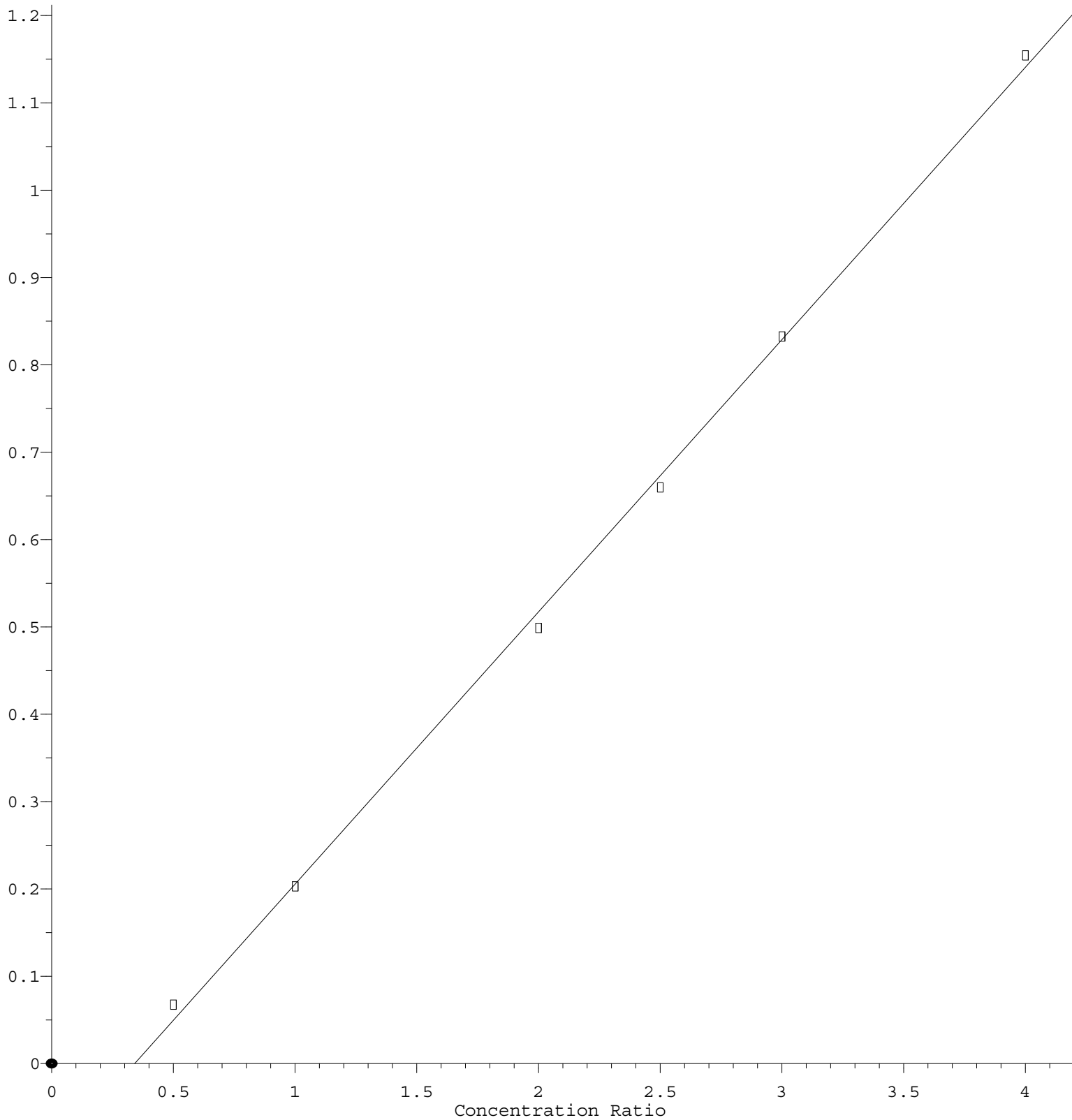
2,4-Dinitrophenol



Response = 2.050e-001 * Amt - 7.670e-002
 Coef of Det (r^2) = 0.996189 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG072823.M
 Calibration Table Last Updated: Fri Jul 28 22:29:07 2023

Hexachlorocyclopentadiene

Response Ratio



$$\text{Response} = 3.117\text{e-}001 * \text{Amt} - 1.062\text{e-}001$$

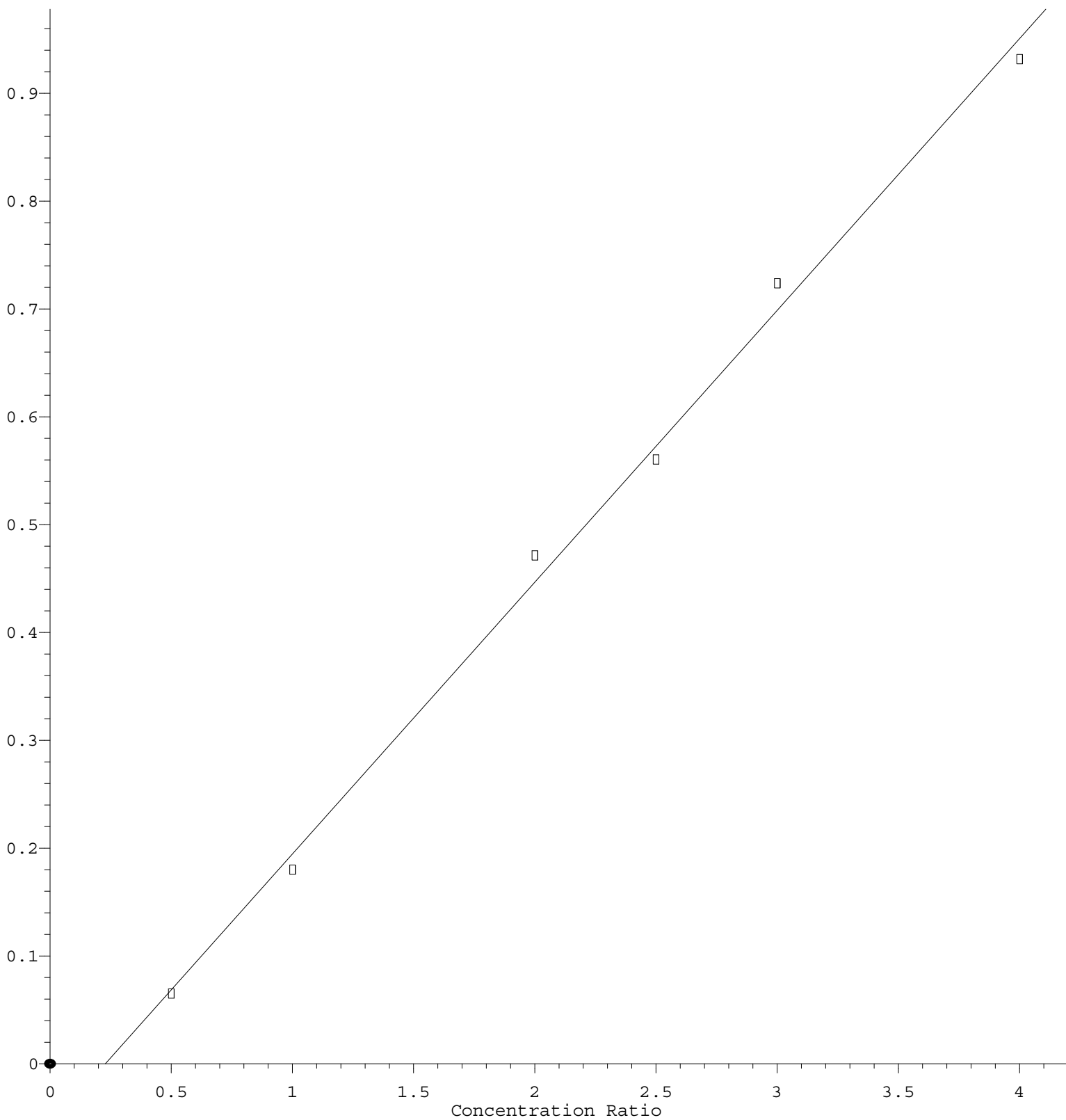
Coef of Det (r^2) = 0.998713 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG072823.M

Calibration Table Last Updated: Fri Jul 28 22:29:07 2023

Benzoic acid

Response Ratio



$$\text{Response} = 2.521\text{e-}001 * \text{Amt} - 5.751\text{e-}002$$

Coef of Det (r^2) = 0.996272 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG072823.M

Calibration Table Last Updated: Fri Jul 28 22:29:07 2023