

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM060525.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jun 05 16:20:25 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BM050194.D 5 =BM050195.D 10 =BM050196.D 20 =BM050197.D 40 =BM050198.D 50 =BM050199.D 60 =BM050200.D 80 =BM050201.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.597	0.552	0.516	0.479	0.511	0.536	0.488	0.526	7.69	
3)	Pyridine	1.353	1.352	1.370	1.311	1.425	1.389	1.326	1.361	2.80	
4)	n-Nitrosodimet...	0.283	0.265	0.279	0.272	0.297	0.293	0.282	0.281	3.95	
5) S	2-Fluorophenol	1.251	1.193	1.192	1.145	1.238	1.224	1.150	1.199	3.45	
6)	Aniline	2.033	2.016	2.147	2.065	2.250	2.064	2.031	2.086	4.02	
7) S	Phenol-d6	1.569	1.521	1.617	1.565	1.699	1.560	1.516	1.578	4.00	
8)	2-Chlorophenol	1.289	1.259	1.344	1.295	1.418	1.338	1.288	1.319	4.02	
9)	Benzaldehyde	1.188	1.080	1.096	0.878	0.975	0.804		1.003	14.43	
10) C	Phenol	1.673	1.644	1.710	1.644	1.782	1.637	1.600	1.670	3.58	
11)	bis(2-Chloroet...	1.396	1.319	1.380	1.315	1.428	1.295	1.269	1.343	4.36	
12)	1,3-Dichlorobe...	1.516	1.462	1.491	1.412	1.545	1.485	1.409	1.474	3.46	
13) C	1,4-Dichlorobe...	1.619	1.544	1.564	1.450	1.591	1.525	1.444	1.534	4.34	
14)	1,2-Dichlorobe...	1.503	1.456	1.492	1.402	1.540	1.450	1.392	1.462	3.68	
15)	Benzyl Alcohol	1.072	1.045	1.152	1.141	1.267	1.102	1.101	1.126	6.43	
16)	2,2'-oxybis(1-...	1.012	0.949	0.974	0.909	0.978	0.863	0.845	0.933	6.68	
17)	2-Methylphenol	1.078	1.042	1.133	1.108	1.207	1.077	1.068	1.102	4.96	
18)	Hexachloroethane	0.564	0.544	0.552	0.533	0.593	0.559	0.543	0.556	3.51	
19) P	n-Nitroso-di-n...	0.847	0.944	0.947	1.072	1.001	1.096	0.906	0.913	0.966	8.82
20)	3+4-Methylphenols		1.367	1.375	1.533	1.509	1.661	1.437	1.438	1.474	6.98
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.515	0.506	0.517	0.476	0.519	0.495	0.470	0.500	4.03	
23) S	Nitrobenzene-d5	0.359	0.362	0.392	0.377	0.414	0.406	0.382	0.385	5.42	
24)	Nitrobenzene	0.333	0.337	0.359	0.339	0.370	0.363	0.347	0.350	4.10	
25)	Isophorone	0.647	0.624	0.685	0.659	0.733	0.652	0.646	0.664	5.33	
26) C	2-Nitrophenol	0.116	0.124	0.146	0.155	0.178	0.169	0.169	0.151	15.65	
27)	2,4-Dimethylph...	0.311	0.298	0.315	0.303	0.332	0.313	0.299	0.310	3.80	
28)	bis(2-Chloroet...	0.426	0.413	0.447	0.427	0.470	0.432	0.420	0.434	4.42	
29) C	2,4-Dichloroph...	0.265	0.262	0.289	0.286	0.319	0.300	0.289	0.287	6.83	
30)	1,2,4-Trichlor...	0.324	0.307	0.321	0.305	0.337	0.330	0.312	0.319	3.72	
31)	Naphthalene	1.111	1.041	1.056	0.977	1.061	1.025	0.969	1.034	4.79	
32)	Benzoic acid		0.127	0.176	0.204	0.233	0.211	0.219	0.195	19.69	
33)	4-Chloroaniline	0.438	0.423	0.454	0.433	0.477	0.440	0.422	0.441	4.37	
34) C	Hexachlorobuta...	0.188	0.184	0.189	0.182	0.202	0.197	0.188	0.190	3.74	
35)	Caprolactam	0.077	0.077	0.093	0.097	0.112	0.092	0.090	0.091	13.48	
36) C	4-Chloro-3-met...	0.293	0.276	0.313	0.313	0.347	0.302	0.299	0.306	7.19	
37)	2-Methylnaphth...	0.625	0.592	0.643	0.615	0.679	0.619	0.594	0.624	4.78	
38)	1-Methylnaphth...	0.676	0.637	0.689	0.649	0.714	0.648	0.622	0.662	4.86	

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM060525.M

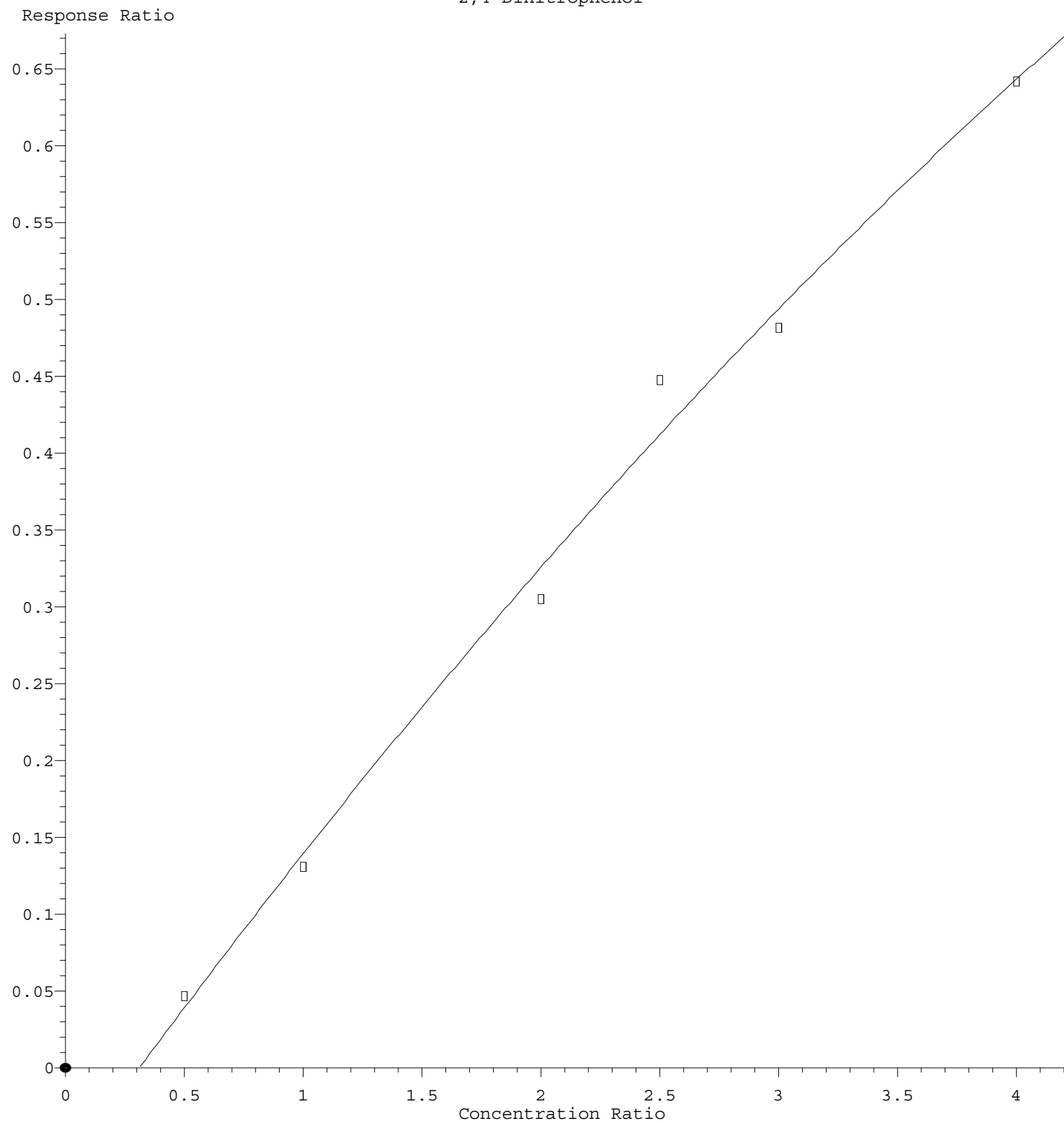
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.586	0.561	0.585	0.541	0.589	0.607	0.574	0.578	3.71	
41) P	Hexachlorocycl...	0.295	0.305	0.339	0.341	0.382	0.401	0.392	0.351	12.02	
42) S	2,4,6-Tribromo...	0.210	0.213	0.238	0.231	0.254	0.233	0.214	0.227	6.99	
43) C	2,4,6-Trichlor...	0.346	0.347	0.379	0.375	0.414	0.402	0.396	0.380	6.93	
44)	2,4,5-Trichlor...	0.371	0.382	0.424	0.414	0.457	0.442	0.429	0.417	7.46	
45) S	2-Fluorobiphenyl	1.589	1.536	1.532	1.377	1.463	1.480	1.364	1.477	5.67	
46)	1,1'-Biphenyl	1.582	1.513	1.514	1.404	1.526	1.508	1.437	1.498	3.96	
47)	2-Chloronaphth...	1.221	1.194	1.180	1.084	1.171	1.177	1.123	1.164	3.94	
48)	2-Nitroaniline	0.200	0.206	0.252	0.268	0.302	0.290	0.277	0.256	15.56	
49)	Acenaphthylene	1.863	1.834	1.940	1.819	1.978	1.924	1.824	1.883	3.39	
50)	Dimethylphthalate	1.339	1.285	1.398	1.343	1.474	1.344	1.284	1.353	4.92	
51)	2,6-Dinitrotol...	0.204	0.231	0.284	0.289	0.320	0.297	0.284	0.273	14.82	
52) C	Acenaphthene	1.217	1.176	1.185	1.132	1.228	1.181	1.127	1.178	3.24	
53)	3-Nitroaniline	0.231	0.252	0.312	0.323	0.360	0.336	0.314	0.304	15.16	
54) P	2,4-Dinitrophenol		0.093	0.131	0.152	0.179	0.160	0.160	0.146	20.67	
55)	Dibenzofuran	1.782	1.710	1.775	1.662	1.797	1.719	1.617	1.723	3.87	
56) P	4-Nitrophenol	0.199	0.216	0.265	0.274	0.307	0.288	0.262	0.259	14.93	
57)	2,4-Dinitrotol...	0.250	0.283	0.365	0.396	0.447	0.398	0.380	0.360	19.28	
58)	Fluorene	1.413	1.358	1.394	1.267	1.348	1.289	1.169	1.320	6.40	
59)	2,3,4,6-Tetrac...	0.338	0.330	0.370	0.365	0.401	0.371	0.350	0.361	6.60	
60)	Diethylphthalate	1.314	1.272	1.416	1.346	1.490	1.317	1.238	1.342	6.43	
61)	4-Chlorophenyl...	0.675	0.656	0.667	0.611	0.660	0.623	0.573	0.638	5.81	
62)	4-Nitroaniline	0.213	0.236	0.291	0.308	0.342	0.319	0.285	0.285	16.00	
63)	Azobenzene	1.342	1.330	1.415	1.313	1.443	1.316	1.230	1.341	5.25	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.075	0.101	0.111	0.128	0.120	0.121	0.109	17.72	
66) c	n-Nitrosodiphe...	0.630	0.626	0.639	0.594	0.646	0.639	0.625	0.628	2.73	
67)	4-Bromophenyl-...	0.207	0.204	0.215	0.204	0.228	0.217	0.218	0.213	4.13	
68)	Hexachlorobenzene	0.249	0.240	0.253	0.238	0.261	0.255	0.249	0.249	3.29	
69)	Atrazine	0.166	0.177	0.206	0.206	0.231	0.212	0.204	0.200	10.86	
70) C	Pentachlorophenol	0.133	0.138	0.165	0.164	0.187	0.177	0.171	0.162	12.21	
71)	Phenanthrene	1.239	1.156	1.160	1.071	1.161	1.144	1.068	1.143	5.14	
72)	Anthracene	1.167	1.135	1.175	1.086	1.181	1.165	1.092	1.143	3.46	
73)	Carbazole	1.041	1.003	1.063	1.009	1.103	1.085	0.985	1.041	4.30	
74)	Di-n-butylphth...	0.998	1.007	1.187	1.159	1.300	1.187	1.093	1.133	9.53	
75) C	Fluoranthene	1.180	1.139	1.231	1.178	1.301	1.284	1.121	1.205	5.77	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine		0.381	0.568	0.617	0.689	0.600	0.520	0.562	18.64	
78)	Pyrene	1.331	1.307	1.444	1.324	1.423	1.274	1.334	1.348	4.61	
79) S	Terphenyl-d14	1.148	1.088	1.165	1.010	1.064	0.955	0.957	1.055	8.06	
80)	Butylbenzylpht...	0.322	0.347	0.460	0.490	0.563	0.480	0.485	0.450	18.95	
81)	Benzo(a)anthra...	1.271	1.231	1.298	1.218	1.338	1.280	1.225	1.266	3.47	
82)	3,3'-Dichlorob...	0.265	0.301	0.379	0.415	0.476	0.450	0.416	0.386	19.97	
83)	Chrysene	1.235	1.184	1.225	1.151	1.256	1.217	1.161	1.204	3.27	
84)	Bis(2-ethylhex...	0.525	0.574	0.702	0.740	0.851	0.741	0.714	0.693	15.84	
85) c	Di-n-octyl pht...	0.641	0.729	0.936	1.114	1.359	1.245	1.169	1.028	26.08	

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M

		-----ISTD-----								
86) I	Perylene-d12									
87)	Indeno(1,2,3-c...	1.189	1.183	1.254	1.191	1.318	1.472	1.407	1.288	8.99
88)	Benzo(b)fluora...	1.104	1.082	1.205	1.170	1.269	1.178	1.132	1.163	5.46
89)	Benzo(k)fluora...	1.141	1.149	1.222	1.167	1.295	1.190	1.144	1.187	4.71
90) C	Benzo(a)pyrene	0.994	1.007	1.111	1.081	1.197	1.153	1.111	1.093	6.73
91)	Dibenzo(a,h)an...	0.954	0.966	1.021	0.972	1.075	1.188	1.141	1.045	8.83
92)	Benzo(g,h,i)pe...	1.002	0.978	1.013	0.954	1.037	1.194	1.146	1.046	8.57

(#) = Out of Range

2,4-Dinitrophenol



$R = -9.297e-003 A^2 + 2.144e-001 A - 6.582e-002$
 Coef of Det (r^2) = 0.992237 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM060525.M
 Calibration Table Last Updated: Thu Jun 05 16:20:25 2025