

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF101824.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Oct 18 15:07:50 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF139851.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74	
3)	Pyridine	1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26	
4)	n-Nitrosodimet...	0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39	
5) S	2-Fluorophenol	1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10	
6)	Aniline	1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05	
7) S	Phenol-d6	1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06	
8)	2-Chlorophenol	1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24	
9)	Benzaldehyde		1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22	
10) C	Phenol	1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19	
11)	bis(2-Chloroet...	1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82	
12)	1,3-Dichlorobe...	1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19	
13) C	1,4-Dichlorobe...	1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19	
14)	1,2-Dichlorobe...	1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15	
15)	Benzyl Alcohol	1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07	
16)	2,2'-oxybis(1-...	2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69	
17)	2-Methylphenol	1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69	
18)	Hexachloroethane	0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06	
19) P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)	3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43	
23) S	Nitrobenzene-d5	0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92	
24)	Nitrobenzene	0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10	
25)	Isophorone	0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90	
26) C	2-Nitrophenol	0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22	
27)	2,4-Dimethylph...	0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07	
28)	bis(2-Chloroet...	0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22	
29) C	2,4-Dichloroph...	0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17	
30)	1,2,4-Trichlor...	0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68	
31)	Naphthalene	1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23	
32)	Benzoic acid		0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69	
33)	4-Chloroaniline	0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26	
34) C	Hexachlorobuta...	0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96	
35)	Caprolactam	0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85	
36) C	4-Chloro-3-met...	0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03	
37)	2-Methylnaphth...	0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11	
38)	1-Methylnaphth...	0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55	

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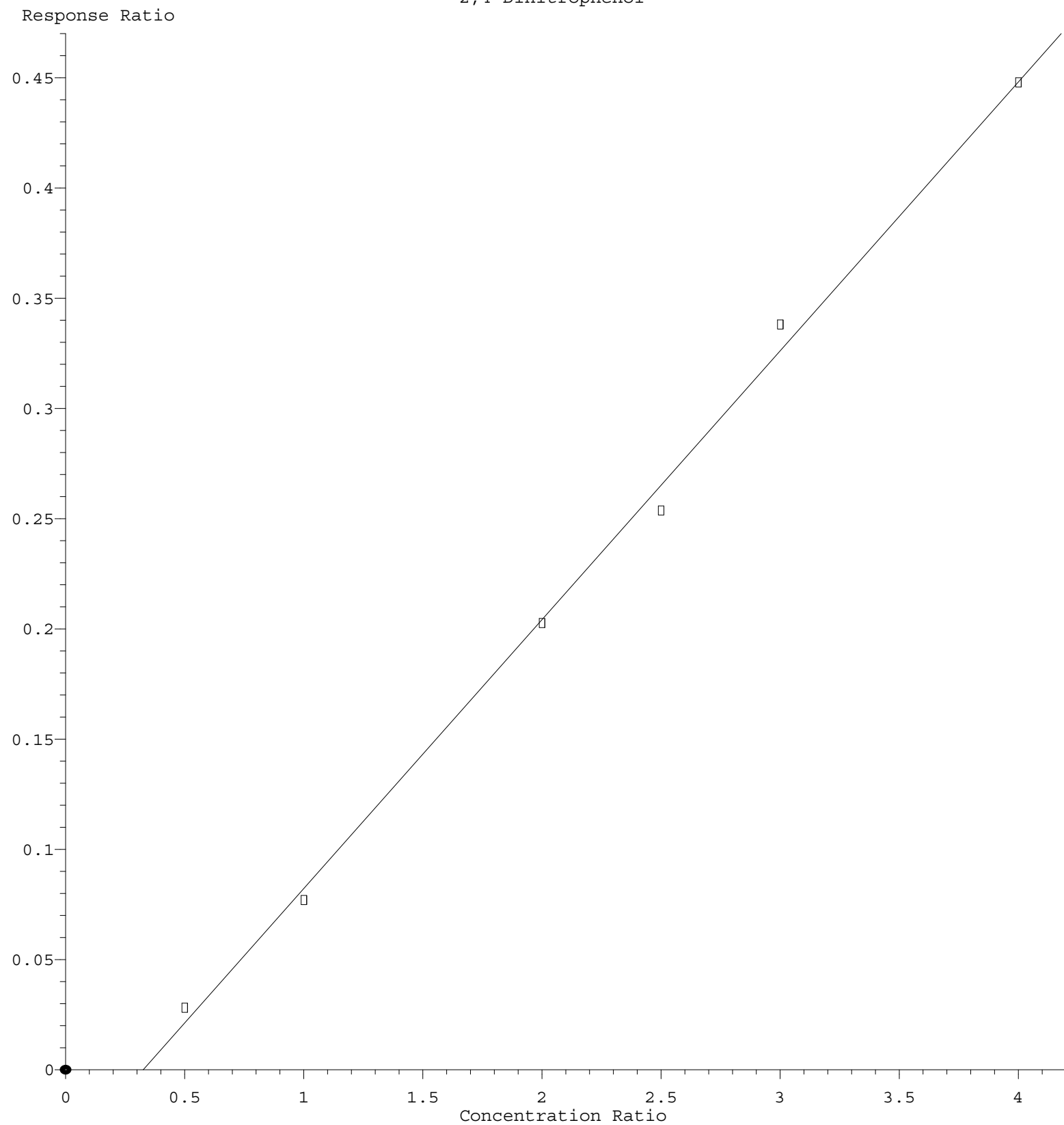
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72	
41) P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28	
42) S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47	
43) C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80	
44)	2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58	
45) S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05	
46)	1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18	
47)	2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95	
48)	2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20	
49)	Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06	
50)	Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60	
51)	2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41	
52) C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55	
53)	3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84	
54) P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89	
55)	Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52	
56) P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84	
57)	2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94	
58)	Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68	
59)	2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33	
60)	Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99	
61)	4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14	
62)	4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65	
63)	Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60	
66) c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14	
67)	4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98	
68)	Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20	
69)	Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36	
70) C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04	
71)	Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79	
72)	Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53	
73)	Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64	
74)	Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77	
75) C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86	
78)	Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43	
79) S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96	
80)	Butylbenzylphth...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99	
81)	Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48	
82)	3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15	
83)	Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52	
84)	Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48	
85) c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14	

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86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77	
88)	Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15	
89)	Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42	
90) C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12	
91)	Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31	
92)	Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37	

(#) = Out of Range

2,4-Dinitrophenol



Response = $1.220 \times 10^{-1} \times \text{Amt} - 3.983 \times 10^{-2}$
Coef of Det (r^2) = 0.997175 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF101824.M
Calibration Table Last Updated: Fri Oct 18 15:07:50 2024