

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: POWE02

Lab Code: ACE

SDG No.: Q3341

Instrument ID: BNA_F

Calibration Date(s): 10/06/2025 10/06/2025

Calibration Time(s): 09:59 14:22

LAB FILE ID:		RRF2.5 = BF143875.D		RRF005 = BF143876.D		RRF010 = BF143877.D		
		RRF020 = BF143878.D		RRF040 = BF143879.D		RRF050 = BF143880.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.378	1.349	1.352	1.307	1.173	1.259	9.1
Phenol-d6		1.626	1.631	1.601	1.542	1.404	1.501	8.6
Nitrobenzene-d5		0.325	0.333	0.347	0.345	0.323	0.329	4.2
Isophorone		0.754	0.708	0.708	0.705	0.665	0.694	5.0
Naphthalene		1.103	0.996	0.972	0.932	0.817	0.910	14.1
2-Fluorobiphenyl		1.568	1.424	1.335	1.224	0.984	1.260	18.0
Fluorene		1.393	1.266	1.173	1.097	0.897	1.083	19.2
2,4,6-Tribromophenol		0.194	0.192	0.210	0.207	0.198	0.199	3.5
Phenanthrene		1.164	1.092	1.066	0.976	0.842	0.970	14.9
Anthracene		1.161	1.097	1.057	1.025	0.854	0.980	14.4
Pyrene		1.838	1.663	1.769	1.863	1.541	1.667	9.9
Terphenyl-d14		1.301	1.209	1.271	1.279	1.066	1.170	10.7
Benzo (a) anthracene		1.342	1.347	1.354	1.398	1.232	1.309	5.5
Chrysene		1.373	1.188	1.267	1.294	1.116	1.211	8.4
Benzo (b) fluoranthene		1.207	1.138	1.131	1.269	1.095	1.149	7.6
Benzo (a) pyrene		1.000	1.006	1.037	1.102	0.936	0.996	6.2
Benzo (g,h,i) perylene		0.889	0.888	0.983	1.117	0.991	0.986	8.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF100625.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Oct 06 15:29:47 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF143875.D 5 =BF143876.D 10 =BF143877.D 20 =BF143878.D 40 =BF143879.D 50 =BF143880.D 60 =BF143881.D 80 =BF143882.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.614	0.595	0.597	0.609	0.544	0.576	0.544	0.583	4.96
3)	Pyridine		1.691	1.672	1.749	1.772	1.668	1.680	1.644	1.697	2.74
4)	n-Nitrosodimet...			0.825	0.895	0.909	0.917	0.909	0.900	0.893	3.81
5) S	2-Fluorophenol		1.378	1.349	1.352	1.307	1.173	1.177	1.079	1.259	9.15
6)	Aniline		2.400	2.327	2.361	2.343	2.185	2.134	1.997	2.250	6.58
7) S	Phenol-d6		1.626	1.631	1.601	1.542	1.404	1.387	1.317	1.501	8.62
8)	2-Chlorophenol		1.324	1.229	1.274	1.294	1.201	1.182	1.113	1.231	5.90
9)	Benzaldehyde			1.115	1.026	1.329	1.198	1.390	0.890	1.158	16.18
10) C	Phenol		1.934	1.814	1.889	1.841	1.756	1.739	1.589	1.795	6.33
11)	bis(2-Chloroet...		1.487	1.457	1.467	1.446	1.308	1.302	1.238	1.386	7.25
12)	1,3-Dichlorobe...		1.742	1.591	1.589	1.516	1.336	1.327	1.215	1.474	12.64
13) C	1,4-Dichlorobe...		1.653	1.606	1.567	1.499	1.326	1.340	1.185	1.454	11.88
14)	1,2-Dichlorobe...		1.581	1.507	1.501	1.434	1.283	1.288	1.153	1.392	11.06
15)	Benzyl Alcohol			1.118	1.138	1.173	1.134	1.104	1.082	1.125	2.79
16)	2,2'-oxybis(1-...		3.520	3.385	3.273	3.239	3.008	2.945	2.720	3.156	8.79
17)	2-Methylphenol		1.064	1.057	1.049	1.054	0.985	0.986	0.927	1.017	5.10
18)	Hexachloroethane		0.533	0.508	0.515	0.501	0.456	0.464	0.417	0.485	8.39
19) P	n-Nitroso-di-n...	1.052	1.135	1.134	1.054	1.026	0.970	0.938	0.912	1.028	8.13
20)	3+4-Methylphenols			1.401	1.342	1.266	1.067	1.068	0.933	1.179	15.58
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.515	0.461	0.462	0.433	0.374	0.375	0.340	0.423	14.67
23) S	Nitrobenzene-d5		0.325	0.333	0.347	0.345	0.323	0.325	0.307	0.329	4.19
24)	Nitrobenzene		0.369	0.349	0.389	0.391	0.352	0.365	0.342	0.366	5.26
25)	Isophorone		0.754	0.708	0.708	0.705	0.665	0.663	0.656	0.694	5.04
26) C	2-Nitrophenol		0.121	0.133	0.163	0.174	0.167	0.173	0.166	0.157	13.39
27)	2,4-Dimethylph...		0.287	0.288	0.292	0.295	0.271	0.278	0.264	0.282	4.08
28)	bis(2-Chloroet...		0.510	0.474	0.463	0.444	0.398	0.401	0.380	0.438	10.79
29) C	2,4-Dichloroph...		0.317	0.292	0.313	0.307	0.280	0.282	0.265	0.294	6.54
30)	1,2,4-Trichlor...		0.331	0.299	0.307	0.298	0.266	0.272	0.249	0.289	9.57
31)	Naphthalene		1.103	0.996	0.972	0.932	0.817	0.817	0.732	0.910	14.06
32)	Benzoic acid			0.131	0.173	0.200	0.216	0.222	0.228	0.195	18.95
33)	4-Chloroaniline		0.368	0.370	0.357	0.355	0.319	0.321	0.298	0.341	8.20
34) C	Hexachlorobuta...		0.231	0.214	0.210	0.207	0.183	0.187	0.173	0.201	10.11
35)	Caprolactam			0.092	0.091	0.095	0.094	0.093	0.094	0.093	1.59
36) C	4-Chloro-3-met...		0.301	0.302	0.289	0.287	0.269	0.270	0.256	0.282	6.27
37)	2-Methylnaphth...		0.742	0.683	0.654	0.616	0.527	0.533	0.487	0.606	15.46
38)	1-Methylnaphth...		0.719	0.656	0.629	0.605	0.517	0.523	0.465	0.588	15.23

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF100625.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.610	0.592	0.595	0.590	0.500	0.519	0.464	0.553	10.38	
41) P	Hexachlorocycl...	0.182	0.216	0.257	0.246	0.240	0.235	0.229		11.77	
42) S	2,4,6-Tribromo...	0.194	0.192	0.210	0.207	0.198	0.200	0.193	0.199	3.51	
43) C	2,4,6-Trichlor...	0.408	0.394	0.426	0.445	0.383	0.395	0.376	0.404	6.07	
44)	2,4,5-Trichlor...	0.443	0.444	0.460	0.456	0.401	0.403	0.380	0.427	7.34	
45) S	2-Fluorobiphenyl	1.568	1.424	1.335	1.224	0.984	1.028		1.260	18.04	
46)	1,1'-Biphenyl	1.617	1.476	1.448	1.374	1.134	1.171	1.050	1.324	15.77	
47)	2-Chloronaphth...	1.294	1.196	1.197	1.137	0.988	1.003	0.913	1.104	12.50	
48)	2-Nitroaniline	0.293	0.322	0.371	0.392	0.354	0.365	0.348	0.349	9.43	
49)	Acenaphthylene	1.797	1.701	1.648	1.623	1.386	1.426	1.284	1.552	12.11	
50)	Dimethylphthalate	1.442	1.351	1.334	1.291	1.166	1.202	1.105	1.270	9.29	
51)	2,6-Dinitrotol...	0.201	0.204	0.245	0.262	0.250	0.250	0.237	0.236	10.13	
52) C	Acenaphthene	1.177	1.115	1.096	1.052	0.897	0.934	0.847	1.017	12.21	
53)	3-Nitroaniline	0.256	0.270	0.306	0.306	0.296	0.298	0.286	0.288	6.59	
54) P	2,4-Dinitrophenol	0.061	0.094	0.120	0.143	0.144	0.146	0.118		29.25	
55)	Dibenzofuran	1.680	1.608	1.572	1.494	1.253	1.295	1.149	1.436	14.13	
56) P	4-Nitrophenol	0.173	0.215	0.234	0.230	0.228	0.230	0.218		10.55	
57)	2,4-Dinitrotol...	0.252	0.284	0.341	0.365	0.335	0.346	0.320	0.320	12.30	
58)	Fluorene	1.393	1.266	1.173	1.097	0.897	0.922	0.835	1.083	19.21	
59)	2,3,4,6-Tetrac...	0.276	0.303	0.315	0.325	0.300	0.309	0.288	0.302	5.49	
60)	Diethylphthalate	1.319	1.281	1.273	1.222	1.070	1.105	0.989	1.180	10.62	
61)	4-Chlorophenyl...	0.689	0.662	0.626	0.596	0.485	0.505	0.446	0.573	16.43	
62)	4-Nitroaniline	0.257	0.259	0.285	0.292	0.287	0.288	0.274	0.277	5.25	
63)	Azobenzene	1.387	1.331	1.308	1.280	1.114	1.156	1.055	1.233	10.10	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.065	0.092	0.111	0.112	0.114	0.110	0.101		19.26	
66) c	n-Nitrosodiphe...	0.712	0.683	0.675	0.656	0.560	0.584	0.527	0.628	11.22	
67)	4-Bromophenyl-...	0.247	0.234	0.231	0.231	0.201	0.207	0.196	0.221	8.74	
68)	Hexachlorobenzene	0.277	0.268	0.263	0.267	0.242	0.245	0.231	0.256	6.59	
69)	Atrazine	0.197	0.206	0.213	0.195	0.184	0.177	0.161	0.190	9.44	
70) C	Pentachlorophenol	0.117	0.152	0.157	0.154	0.154	0.147	0.147		10.10	
71)	Phenanthrene	1.164	1.092	1.066	0.976	0.842	0.872	0.775	0.970	14.94	
72)	Anthracene	1.161	1.097	1.057	1.025	0.854	0.881	0.781	0.980	14.43	
73)	Carbazole	1.015	0.962	0.939	0.884	0.766	0.804	0.703	0.868	13.10	
74)	Di-n-butylphth...	1.089	1.094	1.108	1.053	0.910	0.954	0.830	1.005	10.76	
75) C	Fluoranthene	1.156	1.153	1.094	1.032	0.876	0.910	0.789	1.002	14.43	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.701	0.719	0.761	0.651	0.640		0.694		7.16	
78)	Pyrene	1.838	1.663	1.769	1.863	1.541	1.578	1.420	1.667	9.87	
79) S	Terphenyl-d14	1.301	1.209	1.271	1.279	1.066	1.080	0.984	1.170	10.70	
80)	Butylbenzylpht...	0.466	0.503	0.579	0.620	0.545	0.553	0.524	0.542	9.31	
81)	Benzo(a)anthra...	1.342	1.347	1.354	1.398	1.232	1.291	1.198	1.309	5.49	
82)	3,3'-Dichlorob...	0.364	0.403	0.440	0.401	0.404	0.381	0.399		6.41	
83)	Chrysene	1.373	1.188	1.267	1.294	1.116	1.126	1.115	1.211	8.41	
84)	Bis(2-ethylhex...	0.591	0.619	0.687	0.739	0.642	0.672	0.619	0.653	7.70	
85) c	Di-n-octyl pht...	0.837	1.009	1.194	1.108	1.151	1.133	1.072		12.19	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF100625.M

86) I	Perylene-d12										
87)	Indeno(1,2,3-c...	1.114	1.104	1.222	1.393	1.235	1.263	1.248	1.225	7.97	
88)	Benzo(b)fluora...	1.207	1.138	1.131	1.269	1.095	1.202	1.000	1.149	7.63	
89)	Benzo(k)fluora...	1.138	1.173	1.228	1.108	0.923	0.921	0.951	1.063	12.11	
90) C	Benzo(a)pyrene	1.000	1.006	1.037	1.102	0.936	0.970	0.923	0.996	6.17	
91)	Dibenzo(a,h)an...	0.888	0.915	1.015	1.128	0.975	1.007	0.972	0.986	7.89	
92)	Benzo(g,h,i)pe...	0.889	0.888	0.983	1.117	0.991	1.018	1.014	0.986	8.08	

(#) = Out of Range