Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q2231 SAS No.: Q2231 SDG No.: Q2231

Instrument ID: BNA_M Calibration Date(s): 06/05/2025 06/05/2025

Calibration Time(s): 09:20 13:56

LAB FILE ID: RRF2.5 = BM050194.D RRF005 = BM050195.D RRF010 = BM050196.D
RRF020 = BM050197.D RRF040 = BM050198.D RRF050 = BM050199.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.251	1.193	1.192	1.145	1.238	1.199	3.5
Benzaldehyde		1.158	1.080	1.076	0.878	0.975	0.995	13.6
Phenol-d6		1.569	1.521	1.617	1.565	1.699	1.578	4.0
Phenol		1.673	1.644	1.710	1.644	1.782	1.670	3.6
bis(2-Chloroethyl)ether		1.396	1.319	1.380	1.315	1.428	1.343	4.4
2-Chlorophenol		1.289	1.259	1.344	1.295	1.418	1.319	4.0
2-Methylphenol		1.078	1.042	1.133	1.108	1.207	1.102	5.0
2,2-oxybis(1-Chloropropane)		1.012	0.949	0.974	0.909	0.978	0.933	6.7
Acetophenone		0.515	0.506	0.517	0.476	0.519	0.500	4.0
3+4-Methylphenols		1.367	1.375	1.533	1.509	1.661	1.474	7.0
n-Nitroso-di-n-propylamine		0.944	0.947	1.072	1.001	1.096	0.983	7.7
Nitrobenzene-d5		0.359	0.362	0.392	0.377	0.414	0.385	5.4
Hexachloroethane	0.553	0.564	0.544	0.552	0.533	0.593	0.555	3.3
Nitrobenzene		0.333	0.337	0.359	0.339	0.370	0.350	4.1
Isophorone		0.647	0.624	0.685	0.659	0.733	0.664	5.3
2-Nitrophenol		0.116	0.124	0.146	0.155	0.178	0.151	15.7
2,4-Dimethylphenol		0.311	0.298	0.315	0.303	0.332	0.310	3.8
bis(2-Chloroethoxy)methane		0.426	0.413	0.447	0.427	0.470	0.434	4.4
2,4-Dichlorophenol		0.265	0.262	0.289	0.286	0.319	0.287	6.8
Naphthalene		1.111	1.041	1.056	0.977	1.061	1.034	4.8
4-Chloroaniline		0.438	0.423	0.454	0.433	0.477	0.441	4.4
Hexachlorobutadiene		0.188	0.184	0.189	0.182	0.202	0.190	3.7
Caprolactam		0.077	0.077	0.093	0.097	0.112	0.091	13.5
4-Chloro-3-methylphenol		0.293	0.276	0.313	0.313	0.347	0.306	7.2
2-Methylnaphthalene		0.625	0.592	0.643	0.615	0.679	0.624	4.8
Hexachlorocyclopentadiene		0.295	0.305	0.339	0.341	0.382	0.351	12.0
2,4,6-Trichlorophenol		0.346	0.347	0.379	0.375	0.414	0.380	6.9
2-Fluorobiphenyl		1.589	1.536	1.532	1.377	1.463	1.477	5.7
2,4,5-Trichlorophenol		0.371	0.382	0.424	0.414	0.457	0.417	7.5
1,1-Biphenyl		1.582	1.513	1.514	1.404	1.526	1.498	4.0
2-Chloronaphthalene		1.221	1.194	1.180	1.084	1.171	1.164	3.9
2-Nitroaniline		0.200	0.206	0.252	0.268	0.302	0.256	15.6
Dimethylphthalate		1.339	1.285	1.398	1.343	1.474	1.353	4.9
Acenaphthylene		1.863	1.834	1.940	1.819	1.978	1.883	3.4

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.204	0.231	0.284	0.289	0.320	0.273	14.8
3-Nitroaniline		0.231	0.252	0.312	0.323	0.360	0.304	15.2
Acenaphthene		1.217	1.176	1.185	1.132	1.228	1.178	3.2
2,4-Dinitrophenol			0.093	0.131	0.152	0.179	0.146	20.7
4-Nitrophenol		0.199	0.216	0.265	0.274	0.307	0.259	14.9
Dibenzofuran		1.782	1.710	1.775	1.662	1.797	1.723	3.9
2,4-Dinitrotoluene		0.250	0.283	0.365	0.396	0.447	0.360	19.3
Diethylphthalate		1.314	1.272	1.416	1.346	1.490	1.342	6.4
4-Chlorophenyl-phenylether		0.675	0.656	0.667	0.611	0.660	0.638	5.8
Fluorene		1.413	1.358	1.394	1.267	1.348	1.320	6.4
4-Nitroaniline		0.213	0.236	0.291	0.308	0.342	0.285	16.0
4,6-Dinitro-2-methylphenol			0.075	0.101	0.111	0.128	0.109	17.7
n-Nitrosodiphenylamine		0.630	0.626	0.639	0.594	0.646	0.628	2.7
2,4,6-Tribromophenol		0.210	0.213	0.238	0.231	0.254	0.227	7.0
4-Bromophenyl-phenylether		0.207	0.204	0.215	0.204	0.228	0.213	4.1
Hexachlorobenzene		0.249	0.240	0.253	0.238	0.261	0.249	3.3
Atrazine		0.166	0.177	0.206	0.206	0.231	0.200	10.9
Pentachlorophenol		0.133	0.138	0.165	0.164	0.187	0.162	12.2
Phenanthrene		1.239	1.156	1.160	1.071	1.161	1.143	5.1
Anthracene		1.167	1.135	1.175	1.086	1.181	1.143	3.5
Carbazole		1.041	1.003	1.063	1.009	1.103	1.041	4.3
Di-n-butylphthalate		0.998	1.007	1.187	1.159	1.300	1.133	9.5
Fluoranthene		1.180	1.139	1.231	1.178	1.301	1.205	5.8
Pyrene		1.331	1.307	1.444	1.324	1.423	1.348	4.6
Terphenyl-d14		1.148	1.088	1.165	1.010	1.064	1.055	8.1
Butylbenzylphthalate		0.322	0.347	0.460	0.490	0.563	0.450	19.0
3,3-Dichlorobenzidine		0.265	0.301	0.379	0.415	0.476	0.386	20.0
Benzo(a)anthracene		1.271	1.231	1.298	1.218	1.338	1.266	3.5
Chrysene		1.235	1.184	1.225	1.151	1.256	1.204	3.3
Bis(2-ethylhexyl)phthalate		0.525	0.574	0.702	0.740	0.851	0.693	15.8
Di-n-octyl phthalate		0.641	0.729	0.936	1.114	1.359	1.028	26.1
Benzo(b)fluoranthene		1.104	1.082	1.205	1.170	1.269	1.163	5.5
Benzo(k)fluoranthene		1.141	1.149	1.222	1.167	1.295	1.187	4.7
Benzo(a)pyrene		0.994	1.007	1.111	1.081	1.197	1.093	6.7
Indeno(1,2,3-cd)pyrene		1.189	1.183	1.254	1.191	1.318	1.288	9.0

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		0.954	0.966	1.021	0.972	1.075	1.045	8.8
Benzo(g,h,i)perylene		1.002	0.978	1.013	0.954	1.037	1.046	8.6
1,2,4,5-Tetrachlorobenzene		0.586	0.561	0.585	0.541	0.589	0.578	3.7
1,4-Dioxane		0.597	0.552	0.516	0.479	0.511	0.526	7.7
2,3,4,6-Tetrachlorophenol		0.338	0.330	0.370	0.365	0.401	0.361	6.6

All other compounds must meet a minimum RRF of 0.010.