Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1583 SAS No.: Q1583 SDG No.: Q1583

Instrument ID: BNA_P Calibration Date(s): 03/12/2025 03/12/2025

Calibration Time(s): 16:17 21:02

LAB FILE ID: RRF2.5 = BP024160.D RRF005 = BP024161.D RRF010 = BP024162.D
RRF020 = BP024163.D RRF040 = BP024164.D RRF050 = BP024165.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.444	0.436	0.476	0.431	0.461	0.454	3.7
2-Fluorophenol		1.158	1.194	1.307	1.211	1.291	1.253	5.1
Phenol-d6		1.518	1.581	1.747	1.631	1.749	1.675	5.9
Phenol		1.579	1.632	1.754	1.628	1.744	1.691	4.5
bis(2-Chloroethyl)ether		1.286	1.317	1.407	1.273	1.341	1.334	3.5
2-Chlorophenol		1.257	1.310	1.413	1.306	1.391	1.353	4.5
2,2-oxybis(1-Chloropropane)		1.374	1.367	1.434	1.293	1.365	1.361	3.1
n-Nitroso-di-n-propylamine	0.869	0.910	0.956	1.048	0.962	1.026	0.972	6.2
Nitrobenzene-d5		0.330	0.338	0.366	0.351	0.362	0.354	4.3
Hexachloroethane		0.533	0.512	0.547	0.508	0.533	0.529	2.7
Nitrobenzene		0.330	0.336	0.362	0.341	0.355	0.350	3.9
Isophorone		0.532	0.562	0.631	0.602	0.635	0.608	7.3
2-Nitrophenol		0.126	0.141	0.167	0.171	0.182	0.167	14.9
2,4-Dimethylphenol		0.186	0.198	0.220	0.215	0.223	0.215	7.9
bis(2-Chloroethoxy)methane		0.414	0.418	0.438	0.418	0.429	0.427	2.5
2,4-Dichlorophenol		0.237	0.263	0.298	0.296	0.306	0.291	10.2
1,2,4-Trichlorobenzene		0.310	0.312	0.329	0.312	0.322	0.321	2.9
Naphthalene		1.041	1.037	1.099	1.029	1.069	1.060	2.4
Hexachlorobutadiene		0.177	0.178	0.187	0.180	0.187	0.185	3.4
4-Chloro-3-methylphenol		0.261	0.283	0.324	0.314	0.333	0.313	9.8
Hexachlorocyclopentadiene		0.169	0.189	0.214	0.212	0.220	0.208	10.6
2,4,6-Trichlorophenol		0.291	0.324	0.379	0.372	0.391	0.367	12.0
2-Fluorobiphenyl		1.364	1.358	1.420	1.319	1.335	1.356	2.4
2-Chloronaphthalene		1.108	1.100	1.180	1.095	1.115	1.130	3.0
Dimethylphthalate		1.351	1.349	1.459	1.358	1.417	1.399	3.3
Acenaphthylene		1.586	1.628	1.776	1.661	1.749	1.710	4.9
2,6-Dinitrotoluene		0.248	0.266	0.303	0.294	0.312	0.294	9.4
Acenaphthene		1.057	1.056	1.136	1.061	1.096	1.093	3.2
2,4-Dinitrophenol			0.108	0.146	0.160	0.179	0.156	20.0
4-Nitrophenol		0.187	0.218	0.271	0.277	0.299	0.266	17.4
2,4-Dinitrotoluene		0.295	0.334	0.400	0.394	0.423	0.389	14.2
Diethylphthalate		1.297	1.336	1.437	1.358	1.422	1.394	4.5
4-Chlorophenyl-phenylether		0.658	0.660	0.696	0.658	0.685	0.676	2.5
Fluorene		1.309	1.343	1.442	1.345	1.407	1.379	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
4,6-Dinitro-2-methylphenol			0.085	0.111	0.120	0.127	0.119	15.9
n-Nitrosodiphenylamine		0.564	0.583	0.629	0.600	0.617	0.607	4.3
Azobenzene		1.215	1.251	1.369	1.291	1.341	1.314	4.7
2,4,6-Tribromophenol		0.203	0.222	0.256	0.252	0.270	0.252	11.7
4-Bromophenyl-phenylether		0.206	0.207	0.222	0.217	0.224	0.220	4.6
Hexachlorobenzene		0.248	0.249	0.263	0.254	0.263	0.260	3.8
Pentachlorophenol		0.121	0.140	0.166	0.177	0.184	0.168	16.6
Phenanthrene		1.068	1.059	1.126	1.083	1.100	1.093	2.2
Anthracene		0.993	1.012	1.101	1.063	1.092	1.064	4.2
Di-n-butylphthalate		1.026	1.121	1.247	1.260	1.272	1.218	8.6
Fluoranthene		1.173	1.220	1.287	1.264	1.305	1.265	4.1
Benzidine		0.222	0.199	0.178	0.258	0.173	0.219	17.9
Pyrene		1.177	1.190	1.299	1.204	1.266	1.243	4.1
Terphenyl-d14		0.967	0.973	1.033	0.948	0.966	0.969	3.4
Butylbenzylphthalate		0.399	0.441	0.513	0.524	0.554	0.513	13.5
3,3-Dichlorobenzidine		0.340	0.369	0.429	0.428	0.434	0.417	10.9
Benzo(a)anthracene		1.194	1.194	1.291	1.208	1.261	1.243	3.5
Chrysene		1.185	1.159	1.224	1.158	1.212	1.195	2.4
Bis(2-ethylhexyl)phthalate		0.613	0.678	0.784	0.792	0.819	0.774	12.3
Di-n-octyl phthalate		0.922	1.033	1.224	1.272	1.357	1.240	16.0
Benzo(b)fluoranthene		1.103	1.116	1.258	1.190	1.244	1.206	5.9
Benzo(k)fluoranthene		1.092	1.136	1.213	1.130	1.203	1.180	5.1
Benzo(a)pyrene		0.953	0.959	1.065	1.029	1.094	1.049	6.8
Indeno(1,2,3-cd)pyrene		1.274	1.289	1.421	1.366	1.442	1.396	6.4
Dibenzo(a,h)anthracene		1.063	1.083	1.184	1.137	1.191	1.161	6.0
Benzo(g,h,i)perylene		1.097	1.107	1.199	1.154	1.202	1.180	5.4

All other compounds must meet a minimum RRF of 0.010.