Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4780 SAS No.: P4780 SDG No.: P4780

Instrument ID: BNA_G Calibration Date/Time: 11/13/2024 17:26

Lab File ID: BG063358.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTD020533 Init. Calib. Time(s): 11:37 15:26

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.545	0.592	0.010	8.6	40.0
Benzaldehyde	0.997	1.182	0.010	18.6	40.0
Phenol	1.967	1.845	0.080	-6.2	20.0
Bis(2-Chloroethyl)ether	1.338	1.315	0.100	-1.7	20.0
2-Chlorophenol	1.253	1.248	0.200	-0.4	20.0
2-Methylphenol	1.437	1.379	0.010	-4.0	20.0
2,2-oxybis(1-Chloropropane)	1.691	1.886	0.010	11.5	40.0
Acetophenone	2.463	2.302	0.060	-6.5	20.0
4-Methylphenol	1.634	1.586	0.010	-2.9	20.0
N-Nitroso-di-n-propylamine	1.437	1.288	0.050	-10.4	30.0
Hexachloroethane	0.508	0.549	0.100	8.2	20.0
Nitrobenzene	0.434	0.453	0.050	4.6	25.0
Isophorone	0.915	0.864	0.050	-5.5	25.0
2-Nitrophenol	0.180	0.192	0.050	6.9	25.0
2,4-Dimethylphenol	0.392	0.409	0.050	4.4	25.0
Bis(2-Chloroethoxy)methane	0.441	0.457	0.050	3.7	20.0
2,4-Dichlorophenol	0.336	0.357	0.060	6.2	20.0
Naphthalene	1.023	1.076	0.200	5.2	20.0
4-Chloroaniline	0.445	0.437	0.010	-1.7	40.0
Hexachlorobutadiene	0.322	0.314	0.040	-2.4	30.0
Caprolactam	0.140	0.121	0.010	-13.2	40.0
4-Chloro-3-methylphenol	0.403	0.389	0.040	-3.6	25.0
2-Methylnaphthalene	0.811	0.809	0.100	-0.2	20.0
Hexachlorocyclopentadiene	0.385	0.367	0.010	-4.7	40.0
2,4,6-Trichlorophenol	0.381	0.403	0.090	6.0	25.0
2,4,5-Trichlorophenol	0.413	0.449	0.100	8.7	25.0
1,1-Biphenyl	1.268	1.377	0.200	8.6	20.0
2-Chloronaphthalene	0.987	1.075	0.300	8.9	20.0
2-Nitroaniline	0.337	0.368	0.050	9.2	40.0
Dimethylphthalate	1.502	1.423	0.300	-5.3	20.0
2,6-Dinitrotoluene	0.287	0.294	0.080	2.3	30.0
Acenaphthylene	1.527	1.667	0.400	9.2	20.0
3-Nitroaniline	0.251	0.292	0.010	16.5	40.0
Acenaphthene	1.093	1.167	0.200	6.8	20.0
2,4-Dinitrophenol	0.190	0.191	0.010	0.8	40.0
4-Nitrophenol	0.279	0.247	0.010	-11.6	40.0
Dibenzofuran	1.674	1.748	0.300	4.5	20.0
2,4-Dinitrotoluene	0.455	0.448	0.070	-1.5	30.0
Diethylphthalate	1.540	1.445	0.300	-6.2	20.0

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Lab Code: CHEM Case No.: P4780 SAS No.: P4780 SDG No.: P4780

Instrument ID: BNA_G Calibration Date/Time: 11/13/2024 17:26

Lab File ID: BG063358.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTD020533 Init. Calib. Time(s): 11:37 15:26

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.416	1.508	0.200	6.5	20.0
4-Chlorophenyl-phenylether	0.910	0.911	0.100	0.1	20.0
4-Nitroaniline	0.254	0.306	0.010	20.4	40.0
4,6-Dinitro-2-methylphenol	0.130	0.134	0.010	3.0	40.0
N-Nitrosodiphenylamine	0.446	0.486	0.050	9.0	20.0
1,2,4,5-Tetrachlorobenzene	0.705	0.749	0.100	6.2	20.0
4-Bromophenyl-phenylether	0.229	0.232	0.070	1.3	20.0
Hexachlorobenzene	0.244	0.250	0.050	2.7	25.0
Atrazine	0.244	0.245	0.010	0.3	25.0
Pentachlorophenol	0.122	0.109	0.010	-10.7	40.0
Phenanthrene	0.914	1.010	0.200	10.6	20.0
Anthracene	0.936	1.026	0.200	9.6	20.0
Carbazole	0.777	0.885	0.050	13.8	40.0
Di-n-butylphthalate	0.884	1.010	0.500	14.2	25.0
Fluoranthene	1.084	1.262	0.400	16.4	25.0
Pyrene	1.149	1.329	0.400	15.7	25.0
Butylbenzylphthalate	0.336	0.420	0.100	25.0	40.0
3,3-Dichlorobenzidine	0.430	0.494	0.010	14.8	40.0
Benzo(a)anthracene	1.265	1.402	0.300	10.8	30.0
Chrysene	1.179	1.309	0.200	11.0	30.0
Bis(2-ethylhexyl)phthalate	0.489	0.607	0.200	24.1	40.0
Di-n-octyl phthalate	0.788	0.942	0.010	19.5	40.0
Benzo(b)fluoranthene	1.203	1.258	0.200	4.5	25.0
Benzo(k)fluoranthene	1.199	1.266	0.200	5.7	25.0
Benzo(a)pyrene	1.113	1.161	0.200	4.3	20.0
Indeno(1,2,3-cd)pyrene	1.365	1.424	0.200	4.3	25.0
Dibenzo(a,h)anthracene	1.113	1.161	0.200	4.3	30.0
Benzo(g,h,i)perylene	1.035	1.086	0.200	4.9	30.0
2,3,4,6-Tetrachlorophenol	0.427	0.416	0.040	-2.7	20.0
1,4-Dioxane-d8	0.442	0.487	0.010	10.1	25.0
Pyridine-d5	1.462	1.383	0.010	-5.4	40.0
Phenol-d5	1.805	1.650	0.010	-8.6	25.0
Bis-(2-Chloroethyl)ether-d8	1.059	1.042	0.050	-1.6	25.0
2-Chlorophenol-d4	1.171	1.238	0.200	5.7	20.0
4-Methylphenol-d8	1.530	1.448	0.010	-5.3	20.0
Nitrobenzene-d5	0.141	0.150	0.050	6.5	20.0
2-Nitrophenol-d4	0.182	0.189	0.050	4.2	30.0
2,4-Dichlorophenol-d3	0.357	0.383	0.060	7.3	20.0
4-Chloroaniline-d4	0.465	0.463	0.010	-0.4	40.0

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GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.567	1.447	0.300	-7.6	20.0
Acenaphthylene-d8	1.533	1.655	0.400	7.9	20.0
4-Nitrophenol-d4	0.214	0.221	0.010	3.0	40.0
Fluorene-d10	1.322	1.357	0.100	2.6	20.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.126	0.010	0.4	40.0
Anthracene-d10	0.860	0.936	0.300	8.9	20.0
Pyrene-d10	1.003	1.123	0.300	12.0	25.0
Benzo(a)pyrene-d12	0.966	1.011	0.010	4.7	20.0

All other compounds must meet a minimum RRF of 0.010.