

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO	FeO
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	1	2	42.967	0.045	0.176	0.007	0	0	0	0	0.508
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	2	2	42.918	0.117	0.085	0	0	0	0	0	0.875
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	3	2	43.242	0.072	0.165	0.044	0	0	0	0	0.189
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_2_apati	2	2	43.211	0.035	0.144	0	0	0	0	0	0.128
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_3_apati	1	2	43.325	0.028	0	0.016	0	0	0	0	0.175
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_4_apati	1	2	43.191	0.033	0.017	0.02	0	0	0	0	0.8
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	1	2	43.456	0.035	0.096	0	0	0	0	0	0.139
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	2	2	43.322	0.05	0.098	0.023	0	0	0	0	0.155
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	3	2	43.69	0	0.001	0	0	0	0	0	0.2
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	4	2	43.535	0.023	0	0	0	0	0	0	0.163
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_6_apati	1	2	42.996	0.089	0.077	0.033	0	0	0	0	1.031
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_7_apati	1	2	42.714	0.133	0.101	0.035	0	0	0	0	0.441
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_8_apati	1	2	43.424	0.076	0	0	0	0	0	0	0.099
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	1	2	43.28	0.167	0.462	0.144	0	0	0	0	0.202
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_5_apat	2	2	43.118	0.078	0.365	0.148	0	0	0	0.051	0.339
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_6_apat	1	2	43.467	0.113	0.077	0.043	0	0	0	0.012	0.185
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_8_apat	1	2	43.398	0.112	0.41	0.043	0	0	0	0.015	0.175
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	2	2	42.482	0.105	0.453	0.081	0	0	0	0	0.442
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	3	2	43.015	0.041	0.404	0.127	0	0	0	0	0.238
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	1	2	42.638	0.106	0.386	0.038	0	0	0	0	0.179
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	2	2	41.555	0.149	0.405	0.173	0.1811	0.1547	0	0.007	0
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	3	2	43.382	0.107	0.24	0.055	0	0	0	0.066	0.156
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	4	2	43.52	0.077	0.194	0.063	0	0	0	0.055	0.139
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	5	2	43.474	0.093	0.068	0	0	0	0	0.001	0.152
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	1	2	43.531	0.002	0.185	0.065	0	0	0	0	0.267
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	2	2	43.418	0.102	0.184	0.033	0	0	0	0.071	0.289
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	3	2	43.365	0.087	0.186	0.014	0	0	0	0.024	0.164
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_4_apat	2	2	42.92	0.188	0.248	0.092	0	0	0	0	0.184
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_5_apat	1	2	43.184	0.161	0.522	0.109	0	0	0	0	0.188
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_7_apat	1	2	42.554	0.062	0.195	0.066	0	0	0	0	0.214
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_7_apat	2	2	41.567	0.076	0.21	0.055	0.2132	0	0	0	0.0242
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	1	2	43.386	0.151	0.147	0	0	0	0	0	0.279
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	2	2	43.514	0.069	0.091	0.025	0	0	0	0	0.219
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	3	2	42.604	0.148	0	0.078	0	0	0	0	0.194
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_4_apatit	2	2	43.434	0.022	0.18	0.05	0	0	0	0	0.246
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_6_apatit	1	2	43.438	0.091	0.056	0.044	0	0	0	0	0.425
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_6_apatit	3	2	43.336	0	0	0	0	0	0	0	0.382
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_7_apatit	1	2	43.379	0.185	0.035	0.104	0	0	0	0	0.449
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_7_apatit	3	2	43.195	0	0	0.051	0	0	0	0	0.516
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_8_apatit	1	2	43.432	0.002	0.137	0.002	0	0	0	0	0.418
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_8_apatit	2	2	43.083	0.066	0.305	0	0	0	0	0	0.285
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_2_apatit	1	2	42.752	0	0	0.023	0	0	0	0	0
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_3_apatit	1	2	43.453	0.029	0.062	0	0	0	0	0	0.012
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_3_apatit	2	2	43.698	0	0.036	0.012	0	0	0	0	0.04
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_4_apatit	1	2	43.209	0.034	0.108	0.017	0	0	0	0	0.029
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_4_apatit	2	2	42.348	0	0	0.002	0	0	0	0	0.039
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_5_apatit	3	2	43.527	0.018	0	0.052	0	0	0	0	0.099
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_6_apatit	1	2	42.616	0	0	0.074	0	0	0	0	0.005
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	1	2	43.508	0.004	0.048	0.095	0	0	0	0	0

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO	FeO	
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	2	2	43.663	0	0	0	0	0	0	0	0	0.032
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_1_apatit	1	2	43.153	0.044	0.121	0.029	0	0	0	0	0	0.883
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_1_apatit	3	2	42.817	0.007	0.121	0	0	0	0	0	0	0.75
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_1_apatit	5	2	43.03	0.11	0.225	0.022	0	0	0	0	0	0.862
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_2_apatit	1	2	42.716	0	0.119	0	0	0	0	0	0	0.274
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_2_apatit	2	2	43.12	0	0.029	0	0	0	0	0	0	0.224
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_2_apatit	3	2	42.731	0	0	0.006	0	0	0	0	0	0.329
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_3_apatit	4	2	42.857	0	0.012	0	0	0	0	0	0	0.106
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_3_apatit	14	2	43.034	0.114	0.156	0.015	0	0	0	0	0	0.005
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_3_apatit	15	2	43.262	0.077	0.213	0	0	0	0	0	0	0.018
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_3_apatit	16	2	42.667	0	0	0	0	0	0	0	0	0.134
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_3_apatit	17	2	42.747	0	0	0	0	0	0	0	0	0.009
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_4_apatit	5	2	43.001	0	0	0	0	0	0	0	0	0.156
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_4_apatit	6	2	43.136	0	0	0	0	0	0	0	0	0.22
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_4_apatit	7	2	43.13	0.028	0.121	0	0	0	0	0	0	0.229
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_4_apatit	8	2	43.25	0	0	0.057	0	0	0	0	0	0.293
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_4_apatit	9	2	43.018	0	0	0	0	0	0	0	0	0.184
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_6_apatit	1	2	42.187	0	0.067	0.028	0	0	0	0	0	0.891
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_6_apatit	2	2	41.103	0.04	0	0.002	0.4523	0.0668	0	0	0	0
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_6_apatit	3	2	42.409	0	0.084	0	0.9116	0	0	0	0	0.4457
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_7_apatit	5	2	42.522	0.009	0.231	0	0	0	0	0	0.059	0.107
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_8_apatit	1	2	43.33	0	0.147	0.039	0	0	0	0	0	0.848
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_8_apatit	4	2	43.227	0.025	0.332	0.003	0	0	0	0	0	0.899
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_9_apatit	1	2	42.802	0.082	0.033	0.087	0	0	0	0	0	0.79
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_9_apatit	2	2	42.797	0.022	0.198	0	0	0	0	0	0	0.782
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_9_apatit	3	2	42.859	0.073	0.153	0.051	0	0	0	0	0	0.853
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORP	MOSTMEG_Ivo-GfFUR_9_apatit	10	2	42.879	0.091	0.116	0.069	0	0	0	0	0	0.604
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	1	2	42.514	0.088	0	0	0.0256	0.4418	0	0.117	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	2	2	42.268	0	0	0	0.0411	0.2733	0	0.18	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	3	2	42.494	0.048	0.019	0	0	0	0	0	0	0.069
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	4	2	43.346	0.11	0.388	0.124	0	0	0	0	0	0.409
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	6	2	43.288	0	0	0	0	0	0	0.094	0.333	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	1	2	43.339	0.042	0	0.019	0	0	0	0.007	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	3	2	43.055	0.018	0.074	0	0	0	0	0	0	0.098
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	4	2	43.061	0.013	0	0.05	0	0	0	0	0	0.094
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	5	2	43.239	0.04	0	0	0	0	0	0	0	0.106
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	6	2	43.229	0.006	0	0	0	0	0	0	0	0.124
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	2	2	43.553	0.106	0.14	0.043	0	0	0	0	0	0.82
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	4	2	43.264	0.063	0.322	0.001	0	0	0	0	0	0.838
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	5	2	42.774	0.167	0.231	0.056	0	0	0	0	0	0.969
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	6	2	43.552	0.116	0.243	0	0	0	0	0	0	1.048
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	7	2	43.443	0.026	0.009	0.072	0	0	0	0	0	0.733
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	8	2	43.685	0.025	0.251	0.056	0	0	0	0	0	1.026
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	1	2	42.714	0.116	0.259	0.07	0	0	0	0	0	0.888
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	2	2	43.161	0.053	0.212	0.106	0	0	0	0	0	0.814
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	3	2	43.235	0.173	0.091	0.082	0	0	0	0	0	0.898
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	2	2	42.835	0.102	0.014	0.064	0	0	0	0	0	0.643
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	3	2	42.753	0.111	0.038	0.096	0	0	0	0	0	0.576
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORP	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	4	2	42.661	0.052	0.122	0	0	0	0	0	0	1.1

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO	FeO
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	3	2	43.157	0	0.25	0.01	0	0	0	0	0.694
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	2	2	42.889	0	0.019	0.01	0	0	0	0.113	0.628
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	4	2	42.302	0	0	0.042	0	0	0	0.023	0.868
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	2	2	42.521	0	0.045	0	0	0	0	0.097	0.823
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_9_apatit	3	2	42.267	0.011	0	0	0	0	0	0	0.878
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	1	2	41.98	0.001	0.038	0.027	0	0	0	0	1.26
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	3	2	42.778	0.018	0	0.042	0	0	0	0	0.541
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_6_apatit	1	2	42.509	0	0.03	0	0	0	0	0	0.269
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_8_apatit	2	2	42.495	0.008	0.128	0.071	0	0	0	0	1.473
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	3	2	43.183	0.054	0.202	0.027	0	0	0	0	1.526
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	4	2	43.056	0	0.183	0.01	0	0	0	0	1.28
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	2	2	43.074	0.07	0.062	0	0	0	0	0	1.587
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_2_apat	1	2	43.498	0.051	0.119	0	0	0	0	0	0.322
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	1	2	42.476	0	0.053	0	0	0	0	0	1.524
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	2	2	42.414	0	0.073	0.036	0	0	0	0	1.47
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	3	2	42.765	0	0.053	0	0	0	0	0	0.775
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_2_apat	1	2	41.875	0.047	0	0	0.4439	0	0	0	0.2996
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_3_apat	5	2	42.902	0	0.118	0.068	0	0	0	0	0.475
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_4_apat	1	2	43.1	0	0	0	0	0	0	0	0.811
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_7_apat	1	2	43.566	0	0	0.01	0	0	0	0	1.038
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	2	2	42.41	0.006	0.059	0	0	0	0	0	0.043
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	3	2	42.586	0	0	0.008	0.0144	0.0779	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	5	2	42.863	0	0.065	0.067	0	0	0	0	0.005
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_1_apati	1	2	42.915	0.033	0.031	0	0	0	0	0	0.008
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	8	2	42.773	0	0.047	0	0	0	0	0	0.226
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	6	2	43.209	0	0.048	0.048	0	0	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	7	2	42.949	0	0	0.036	0	0	0	0	0.018
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	8	2	43.119	0	0	0.028	0	0	0	0	0.006
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	9	2	43.109	0.034	0	0	0	0	0	0	0.017
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	10	2	42.585	0	0	0.045	0	0	0	0	0.006
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	11	2	42.22	0.072	0.011	0	0.0044	0.0056	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	12	2	42.586	0.04	0.028	0	0	0	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	13	2	42.472	0	0.075	0	0.0267	0.0267	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	14	2	42.357	0	0	0.003	0	0.0189	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	15	2	42.995	0	0	0	0	0	0	0	0.018
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	1	2	42.666	0	0.316	0	0.0044	0	0.031	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	2	2	42.67	0	0.048	0.075	0.0378	0.0145	0.03	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	3	2	42.083	0.015	0	0	0.3556	0.2806	0.032	0.05	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	4	2	42.449	0	0.094	0.044	0	0.0267	0.054	0.001	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	5	2	42.232	0	0.139	0	0.2156	0.217	0.027	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	6	2	41.716	0.01	0	0	0.2456	0.424	0.033	0.055	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	7	2	41.795	0	0.019	0	0.0122	0.0045	0.035	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	1	2	42.8	0.001	0.094	0	0	0	0.01	0	0.087
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	2	2	42.179	0	0	0	0.1789	0.2551	0.027	0.007	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	3	2	42.498	0	0	0.004	0	0	0.058	0	0.084
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	1	2	42.717	0.037	0.1	0	0	0	0	0	0.121
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	4	2	42.929	0.002	0.104	0.003	0	0	0	0	0.023
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	1	2	43.168	0	0.096	0.041	0	0	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	2	2	43.507	0.079	0.057	0	0	0	0	0	0.013

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO	FeO	
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	3	2	43.262	0.001	0.197	0	0	0	0	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	4	2	42.515	0	0	0	0.0224	0	0	0	0	0.2279
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	5	2	41.72	0.048	0.151	0	0.1323	0.4128	0	0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	6	2	42.728	0	0	0	0	0	0	0	0	0.098
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	7	2	43.128	0.014	0.169	0	0	0	0	0	0	0.033
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	1	2	42.081	0	0.009	0	0	0	0	0	0	0.548
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	2	2	41.409	0	0.189	0	0	0	0	0	0	0.432
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	1	2	43.21	0	0	0.015	0	0	0	0	0	0.819
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	3	2	43.232	0	0	0	0	0	0	0	0	0.878
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	4	2	40.969	0	0	0	0.8657	1.6518	0	0	0	0
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_2_apati	1	2	43.538	0	0	0	0	0	0	0	0	0.294
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_5_apati	7	2	43.323	0	0.059	0.045	0	0	0	0	0	0.347
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	3	2	43.168	0.002	0.017	0	0	0	0	0	0	0.816
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	4	2	43.334	0.027	0.074	0	0	0	0	0	0	1.265
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	1	2	42.623	0.103	0	0.045	0	0	0	0	0	0.905
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	2	2	42.73	0.055	0.215	0.079	0	0	0	0	0	0.933
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	3	2	42.051	0.067	0.319	0.083	0	0	0.004	0	0	0.935
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	4	2	42.723	0.08	0.217	0	0	0	0	0	0	0.954
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	5	2	42.649	0.14	0.22	0.044	0	0	0.006	0	0	0.879
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	1	2	42.619	0.079	0.208	0	0	0	0	0	0	0.575
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	2	2	42.961	0.149	0.119	0.058	0	0	0.008	0	0	0.567
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	3	2	42.928	0.081	0	0.008	0	0	0.002	0.074	0	0.055
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	4	2	43.362	0	0.073	0	0	0	0.008	0	0	0.037
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	5	2	42.667	0.068	0.227	0.02	0	0	0.002	0	0	0.205
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	1	2	42.326	0.086	0.165	0.019	0	0	0	0	0	1.059
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	2	2	42.451	0.127	0.263	0.074	0	0	0	0	0	1.014
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	3	2	42.526	0.124	0.081	0.125	0	0	0	0.001	0	0.922
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	4	2	42.544	0.114	0.278	0.039	0	0	0	0	0	0.881
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	5	2	42.603	0.107	0.261	0.066	0	0	0	0	0	0.989
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	1	2	42.161	0.166	0.245	0.059	0	0	0.001	0	0	0.992
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	2	2	42.27	0.091	0.23	0.015	0	0	0.002	0	0	1.026
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	3	2	42.155	0.118	0.252	0.003	0	0	0	0	0	0.974
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	4	2	42.23	0.135	0.181	0	0	0	0.02	0	0	0.904
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	1	2	42.973	0.074	0.004	0.093	0	0	0.003	0	0	0.673
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	2	2	43.072	0	0.165	0.021	0	0	0	0	0	0.675
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	3	2	42.975	0	0.316	0.071	0	0	0	0	0	0.637
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	4	2	43.197	0	0.065	0.003	0	0	0	0	0	0.645
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	5	2	43.099	0.058	0	0.051	0	0	0	0	0	0.753
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	1	2	42.142	0.106	0.01	0.003	0.1756	0.296	0.015	0.063	0	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	2	2	42.282	0.093	0.218	0.009	0.1189	0.2927	0.001	0	0	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	3	2	42.346	0.138	0.205	0.036	0	0	0	0.074	0	0.7
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	4	2	42.48	0.017	0.029	0	0.06	0.0395	0.004	0	0	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	5	2	42.553	0.036	0	0.023	0	0	0.001	0	0	0.051
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_10_apat	3	2	43.06	0	0.018	0	0	0	0.008	0.1	0	0.222
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	1	2	41.579	0	0.036	0	0.8146	0.7736	0.021	0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	2	2	41.44	0	0.037	0.031	0.9246	0.8029	0.023	0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	3	2	41.622	0	0	0.062	0.4356	0.5964	0.027	0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	5	2	42.049	0.032	0.038	0	0.5434	0.4015	0.005	0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	6	2	41.757	0	0	0.023	0.1956	0.5486	0.024	0.013	0	0

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO	FeO
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	1	2	42.618	0	0	0	0	0	0.009	0	0.11
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	2	2	42.804	0	0	0.102	0	0	0.004	0	0.142
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	3	2	42.6	0.013	0	0.028	0	0	0.015	0	0.119
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	4	2	42.606	0	0	0	0	0	0.019	0.047	0.133
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	5	2	42.809	0.004	0	0.02	0	0	0.01	0	0.09
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	6	2	42.623	0	0	0	0	0	0	0	0.094
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	7	2	42.326	0.006	0	0.006	0.12	0.3335	0.003	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	8	2	42.663	0.035	0.263	0	0	0	0.004	0	0.128
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	1	2	42.495	0	0.127	0	0	0	0	0	0.262
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	2	2	42.65	0	0	0	0	0	0.005	0	0.241
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	3	2	42.345	0	0.028	0	0	0	0	0.022	0.218
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	4	2	42.511	0	0	0	0.1678	0.0723	0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	5	2	42.588	0	0	0	0	0	0	0	0.224
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	1	2	41.82	0	0	0.044	0.339	0.8869	0.032	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	2	2	41.989	0	0.144	0.034	0.4434	0.3997	0.015	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	3	2	42.232	0.015	0.033	0.047	0.3613	0	0.011	0	0.0179
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	5	2	42.228	0	0.003	0.031	0.3979	0.4865	0.006	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	1	2	42.444	0.054	0.044	0	0	0	0	0.052	0.235
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	2	2	42.344	0	0.062	0.039	0	0	0	0.077	0.24
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	3	2	42.727	0	0	0.02	0	0	0.001	0	0.19
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	5	2	42.215	0	0.262	0.007	0	0	0	0	0.133
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	1	2	42.348	0.015	0.03	0	0	0	0.105	0	0.042
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	2	2	43.005	0.028	0	0	0	0	0.079	0	0.102
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	3	2	42.673	0	0.095	0.015	0.0578	0	0.009	0.033	0.185
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	4	2	42.768	0	0.058	0.005	0	0	0	0.067	0.189
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	5	2	42.274	0	0	0	0.2423	0.326	0.019	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1	2	42.866	0	0.022	0	0	0	0.001	0.026	0.442
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2	2	42.438	0.003	0.03	0	0.429	0.2526	0.007	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3	2	42.943	0	0.01	0.045	0	0	0.003	0	0.287
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1	2	41.15	0	0.192	0.041	0.22	0.5872	0.003	0.063	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2	2	42.91	0.002	0.018	0.027	0	0	0.013	0	0.354
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3	2	42.313	0.027	0	0.044	0.05	0.0746	0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4	2	42.688	0	0	0.023	0	0	0.014	0	0.269
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5	2	42.666	0.016	0	0	0.3336	0	0	0.013	1.4468
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2	2	42.354	0	0	0	0.419	0.9373	0.007	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3	2	42.536	0	0.208	0.018	0.4468	0.8626	0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1	2	42.866	0	0.022	0	0	0	0.001	0.026	0.442
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2	2	42.438	0.003	0.03	0	0.429	0.2526	0.007	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3	2	42.943	0	0.01	0.045	0	0	0.003	0	0.287
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1	2	41.15	0	0.192	0.041	0.22	0.5872	0.003	0.063	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2	2	42.91	0.002	0.018	0.027	0	0	0.013	0	0.354
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3	2	42.313	0.027	0	0.044	0.05	0.0746	0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4	2	42.688	0	0	0.023	0	0	0.014	0	0.269
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5	2	42.666	0.016	0	0	0.3336	0	0	0.013	1.4468
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2	2	42.354	0	0	0	0.419	0.9373	0.007	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3	2	42.536	0	0.208	0.018	0.4468	0.8626	0	0	0

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#	O=F	O=Cl
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_1_apati	1	0.826	53.653	0.079	0.122	0.144	1.705	0.953	101.185	-0.7179	-0.0325
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_1_apati	2	1.141	52.662	0.198	0.132	0.289	1.645	0.9395	101.0015	-0.6927	-0.0652
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_1_apati	3	0.578	54.135	0.02	0.123	0.076	2.089	0.7949	101.5279	-0.8796	-0.0171
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_2_apati	2	0.068	54.858	0.003	0.017	0.016	2.613	0.5622	101.6552	-1.1003	-0.0036
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_3_apati	1	0.181	55.329	0.049	0.029	0.049	2.81	0.4711	102.4621	-1.1832	-0.0111
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_4_apati	1	1.008	53.766	0.121	0.083	0.149	2.566	0.5546	102.3086	-1.0805	-0.0336
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_5_apati	1	0.078	55.952	0.007	0.022	0.01	2.994	0.4034	103.1924	-1.2607	-0.0023
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_5_apati	2	0.031	55.084	0.023	0.018	0.036	2.926	0.4147	102.1807	-1.2321	-0.0081
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_5_apati	3	0.068	55.546	0.03	0	0	3.081	0.3652	102.9812	-1.2973	0
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_5_apati	4	0.052	55.92	0.009	0.009	0.014	3.029	0.3866	103.1406	-1.2754	-0.0032
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_6_apati	1	1.114	53.135	0.176	0.124	0.208	2.18	0.7153	101.8783	-0.9179	-0.0469
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_7_apati	1	0.527	53.382	0.071	0.139	0.122	2.675	0.4853	100.8253	-1.1264	-0.0275
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_lvo-GBATAO_8_apati	1	0.09	55.671	0	0.026	0.039	2.433	0.6569	102.5149	-1.0245	-0.0088
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_1_apat	1	0.09	55.017	0.068	0.085	0.299	1.724	0.9224	102.4604	-0.7259	-0.0675
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_5_apat	2	0.112	54.713	0.056	0.071	0.336	1.724	0.9054	102.0164	-0.7259	-0.0758
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_6_apat	1	0.087	55.048	0.057	0.063	0.147	1.783	0.9341	102.0161	-0.7508	-0.0332
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_8_apat	1	0.116	55.113	0.046	0.077	0.146	1.832	0.9126	102.3956	-0.7714	-0.0329
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_1_apat	2	0.092	53.434	0.149	0.071	0.296	1.885	0.8091	100.2991	-0.7937	-0.0668
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_1_apat	3	0.094	55.108	0.053	0.056	0.095	2.533	0.5836	102.3476	-1.0666	-0.0214
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_2_apat	1	0.123	54.057	0.078	0.207	0.138	2.451	0.5901	100.9911	-1.032	-0.0311
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_2_apat	2	0	52.973	0.038	0.525	0.344	2.382	0.5349	99.4218	-1.003	-0.0776
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_2_apat	3	0.135	54.875	0.035	0.054	0.225	2.306	0.6631	102.2991	-0.971	-0.0508
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_2_apat	4	0.142	54.882	0.029	0.097	0.265	2.572	0.5302	102.5652	-1.083	-0.0598
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_2_apat	5	0.104	55.005	0.041	0.089	0.267	2.39	0.6148	102.2988	-1.0064	-0.0602
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_3_apat	1	0.133	54.905	0.072	0.062	0.208	2.317	0.6668	102.4138	-0.9756	-0.0469
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_3_apat	2	0.073	54.823	0.213	0.116	0.374	2.388	0.5907	102.6747	-1.0055	-0.0844
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_3_apat	3	0.129	54.922	0.048	0.055	0.332	2.668	0.4637	102.4577	-1.1234	-0.0749
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_4_apat	2	0.109	54.779	0.058	0.076	0.101	2.172	0.7462	101.6732	-0.9146	-0.0228
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_5_apat	1	0.063	54.552	0.054	0.084	0.051	2.811	0.4611	102.2401	-1.1836	-0.0115
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_7_apat	1	0.145	54.201	0.05	0.067	0.021	2.774	0.4635	100.8125	-1.1681	-0.0047
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_lvo-GMatos1_7_apat	2	0.203	54.191	0.057	0.076	0.042	2.43	0.598	99.7424	-1.0232	-0.0095
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_1_apatit	1	0.285	54.46	0.02	0.154	0	2.3	0.7204	101.9024	-0.9685	0
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_1_apatit	2	0.259	54.654	0.014	0.147	0.019	2.504	0.6228	102.1378	-1.0544	-0.0043
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_1_apatit	3	0.287	53.078	0.027	0.328	0.012	2.484	0.5934	99.8334	-1.0459	-0.0027
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_4_apatit	2	0.681	54.772	0.06	0.034	0.011	2.229	0.7592	102.4782	-0.9386	-0.0025
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_6_apatit	1	0.521	54.582	0.05	0.151	0.038	3.142	0.3181	102.8561	-1.323	-0.0086
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_6_apatit	3	0.623	54.422	0.037	0.123	0.005	2.952	0.4107	102.2907	-1.243	-0.0011
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_7_apatit	1	0.806	54.323	0.035	0.156	0.005	2.76	0.5066	102.7436	-1.1622	-0.0011
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_7_apatit	3	0.787	54.215	0.073	0.087	0.017	2.205	0.7592	101.9052	-0.9285	-0.0038
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_8_apatit	1	0.869	54.263	0.058	0.09	0.042	2.437	0.6497	102.3997	-1.0262	-0.0095
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_lvo-GZEB1_8_apatit	2	0.557	54.24	0.057	0.079	0.011	2.723	0.5096	101.9156	-1.1466	-0.0025
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_lvo-GZEB4_2_apatit	1	0.099	56.144	0.012	0.001	0.012	2.568	0.5874	102.1984	-1.0813	-0.0027
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_lvo-GZEB4_3_apatit	1	0.13	56.118	0	0.013	0	2.292	0.7396	102.8486	-0.9651	0
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_lvo-GZEB4_3_apatit	2	0.092	55.886	0	0.038	0.007	2.933	0.4371	103.1791	-1.235	-0.0016
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_lvo-GZEB4_4_apatit	1	0.229	55.755	0.011	0.075	0	2.391	0.6844	102.5424	-1.0068	0
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_lvo-GZEB4_4_apatit	2	0.171	54.288	0.005	0.067	0.018	2.522	0.5752	100.0352	-1.0619	-0.0041
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_lvo-GZEB4_5_apatit	3	0.426	55.241	0.007	0.024	0.007	2.494	0.6367	102.5317	-1.0502	-0.0016
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_lvo-GZEB4_6_apatit	1	0.199	54.973	0.007	0.035	0.01	2.65	0.5323	101.1013	-1.1158	-0.0023
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_lvo-GZEB4_7_apatit	1	0.24	55.689	0	0.013	0	3.001	0.4007	102.9987	-1.2636	0

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#	O=F	O=Cl	
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	2	0.147	55.81	0	0	0	0	3.229	0.2964	103.1774	-1.3596	0
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_1_apatit	1	0.617	53.297	0.107	0.126	0.078	0	2.51	0.5902	101.5552	-1.0569	-0.0176
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_1_apatit	3	0.494	53.442	0.175	0.151	0.079	0	2.919	0.3878	101.3428	-1.2291	-0.0178
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_1_apatit	5	0.601	53.007	0.179	0.178	0.218	0	3.11	0.2658	101.8078	-1.3095	-0.0492
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_2_apatit	1	6.188	49.774	0.01	0.024	0	2.556	0.5789	102.2399	-1.0763	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_2_apatit	2	5.766	50.059	0.012	0.057	0.028	0	2.866	0.4337	102.5947	-1.2068	-0.0063
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_2_apatit	3	7.191	48.644	0.001	0.036	0.016	0	2.48	0.6067	102.0407	-1.0443	-0.0036
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	4	4.156	51.238	0.008	0.003	0.025	0	2.456	0.619	101.48	-1.0342	-0.0056
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	14	0.034	54.942	0	0.035	0.006	0	2.846	0.4502	101.6372	-1.1984	-0.0014
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	15	0.021	55.169	0	0.006	0.007	0	2.924	0.4213	102.1183	-1.2312	-0.0016
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	16	3.716	51.455	0	0.022	0.001	0	2.497	0.5995	101.0915	-1.0514	-0.0002
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	17	0.083	55.095	0.012	0.031	0.008	0	2.719	0.5034	101.2074	-1.1449	-0.0018
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	5	4.765	50.849	0.01	0.042	0.009	0	2.884	0.4259	102.1419	-1.2144	-0.002
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	6	6.154	50	0.004	0	0.011	0	2.747	0.497	102.769	-1.1567	-0.0025
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	7	6.297	49.756	0.002	0	0.001	0	2.879	0.4362	102.8792	-1.2123	-0.0002
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	8	5.617	50.365	0	0.038	0.044	0	2.924	0.4083	102.9963	-1.2312	-0.0099
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	9	5.228	50.682	0.025	0.007	0.003	0	2.564	0.5823	102.2933	-1.0796	-0.0007
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_6_apatit	1	0.449	53.224	0.097	0.096	0.029	0	3.159	0.2666	100.4936	-1.3302	-0.0065
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_6_apatit	2	0	55.477	0.025	0.022	0.024	0	2.905	0.3808	100.4979	-1.2232	-0.0054
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_6_apatit	3	0.043	54.948	0.25	0.028	0.005	0	3.331	0.2246	102.6799	-1.4026	-0.0011
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_7_apatit	5	4.819	50.336	0.007	0.053	0.023	0	2.322	0.6722	101.1602	-0.9777	-0.0052
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_8_apatit	1	0.674	53.518	0.115	0.166	0.019	0	2.951	0.4042	102.2112	-1.2426	-0.0043
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_8_apatit	4	0.621	53.35	0.145	0.175	0.047	0	2.881	0.4272	102.1322	-1.2131	-0.0106
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_9_apatit	1	0.617	53.417	0.09	0.158	0.094	0	2.532	0.5675	101.2695	-1.0662	-0.0212
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_9_apatit	2	0.652	53.198	0.103	0.153	0.152	0	2.375	0.6248	101.0568	-1	-0.0343
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_9_apatit	3	0.646	53.245	0.073	0.177	0.1	0	2.379	0.6391	101.2481	-1.0017	-0.0226
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_9_apatit	10	0.739	53.128	0.081	0.139	0.048	0	2.435	0.6229	100.9519	-1.0253	-0.0108
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	1	0	56.212	0.018	0.04	0	0	2.62	0.5678	102.6442	-1.1032	0
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	2	0.3484	55.097	0	0.049	0	0	2.811	0.4578	101.5256	-1.1836	0
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	3	0.914	54.539	0	0.126	0.012	0	3.161	0.2896	101.6716	-1.331	-0.0027
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	4	0.012	55.373	0.019	0.033	0	0	1.929	0.9063	102.6493	-0.8122	0
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	6	3.903	51.78	0.023	0.038	0.053	0	2.702	0.5141	102.7281	-1.1377	-0.012
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	1	0	55.517	0	0.042	0	0	2.947	0.4172	102.3302	-1.2409	0
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	3	2.578	53.075	0.023	0.072	0.037	0	2.036	0.8292	101.8952	-0.8573	-0.0083
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	4	3.311	52.36	0.009	0.057	0.031	0	2.146	0.7763	101.9083	-0.9036	-0.007
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	5	3.568	52.213	0.018	0.062	0.046	0	2.123	0.7889	102.2039	-0.8939	-0.0104
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	6	2.999	52.461	0.012	0.05	0.003	0	2.419	0.6563	101.9593	-1.0186	-0.0007
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	2	0.566	53.954	0.141	0.137	0.325	0	2.391	0.6026	102.7786	-1.0068	-0.0733
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	4	1.067	53.425	0.089	0.145	0.394	0	2.783	0.3902	102.7812	-1.1718	-0.0889
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	5	0.796	53.515	0.135	0.132	0.358	0	2.701	0.4266	102.2606	-1.1373	-0.0808
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	6	0.498	54.005	0.126	0.158	0.098	0	2.911	0.4164	103.1714	-1.2257	-0.0221
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	7	0.548	54.154	0.092	0.109	0.026	0	2.882	0.4421	102.5361	-1.2135	-0.0059
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	8	0.53	53.967	0.135	0.14	0.131	0	2.732	0.4957	103.1737	-1.1504	-0.0296
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	1	0.51	53.619	0.137	0.099	0.369	0	2.58	0.4769	101.8379	-1.0864	-0.0833
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	2	0.57	53.568	0.137	0.151	0.402	0	2.581	0.4787	102.2337	-1.0868	-0.0907
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	3	0.543	53.482	0.165	0.108	0.195	0	2.693	0.4793	102.1443	-1.1339	-0.044
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	2	0.547	53.284	0.09	0.16	0.143	0	3.03	0.3157	101.2277	-1.2758	-0.0323
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	3	0.744	52.984	0.066	0.142	0.149	0	2.794	0.4213	100.8743	-1.1765	-0.0336
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	4	2.992	50.95	0.089	0.123	0.396	0	2.501	0.4968	101.4828	-1.0531	-0.0894

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#	O=F	O=Cl
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	5	0.82	53.117	0.1	0.144	0.287	2.483	0.5439	101.4209	-1.0455	-0.0648
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	6	0.051	55.705	0.016	0.022	0	3.882	0	103.402	-1.6346	0
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	5	2.296	52.662	0.044	0.071	0.036	2.783	0.4874	102.9734	-1.1718	-0.0081
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	7	0.905	55.036	0.014	0	0.008	2.622	0.5819	103.0169	-1.1041	-0.0018
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	9	0.665	55.28	0	0.025	0.006	2.88	0.4588	103.0898	-1.2127	-0.0014
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	2	0.191	55.943	0.001	0.016	0	2.858	0.4691	103.0281	-1.2034	0
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	3	1.157	54.78	0.003	0.042	0.024	2.905	0.444	103.216	-1.2232	-0.0054
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	4	1.88	54.004	0.013	0.033	0.033	2.684	0.5407	103.0177	-1.1302	-0.0074
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	5	7.641	48.279	0	0.04	0.13	2.359	0.6369	102.1689	-0.9933	-0.0293
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	1	1.95	52.121	0.013	0.123	0	2.326	0.6833	101.0243	-0.9794	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	2	1.672	52.418	0.017	0.142	0.007	2.24	0.7202	100.8612	-0.9432	-0.0016
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	3	1.861	52.403	0.009	0.141	0.007	2.117	0.7771	100.7311	-0.8914	-0.0016
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	4	1.858	52.47	0.018	0.165	0	2.463	0.6202	101.1682	-1.0371	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	5	2.236	51.77	0.024	0.159	0.007	2.196	0.7325	100.3835	-0.9247	-0.0016
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	1	1.285	54.054	0	0.17	0	2.946	0.393	101.679	-1.2405	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	2	1.463	53.71	0.004	0.138	0	3.315	0.2291	102.3791	-1.3959	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	3	0.946	54.254	0.012	0.111	0.016	3.098	0.3273	101.9463	-1.3045	-0.0036
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	4	0.535	54.492	0.009	0.187	0	3.185	0.2851	101.7351	-1.3411	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	5	0.935	53.895	0	0.222	0.006	2.979	0.3693	101.1643	-1.2544	-0.0014
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	1	0.812	54.407	0.003	0.143	0.005	2.855	0.4461	101.9731	-1.2022	-0.0011
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	2	0.858	54.259	0	0.151	0	3.181	0.2973	102.1733	-1.3394	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	3	0.961	53.929	0	0.183	0	3.132	0.3145	101.8565	-1.3188	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	4	0.799	54.454	0.014	0.093	0	3.082	0.3381	101.8381	-1.2977	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	5	1.382	53.609	0.013	0.127	0	2.871	0.4415	102.0805	-1.2089	0
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_8_apatit	1	1.005	54.185	0.009	0	0	2.598	0.5608	101.4968	-1.0939	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	1	3.227	51.295	0.023	0.006	0.02	3.333	0.1997	101.9507	-1.4034	-0.0045
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	2	3.131	51.689	0.006	0.023	0	2.892	0.4186	101.9016	-1.2177	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	3	3.179	51.52	0.045	0.024	0	3.156	0.2837	101.4987	-1.3289	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	4	2.903	52.047	0.001	0.009	0	3.199	0.2746	102.0916	-1.347	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	5	2.668	52.328	0.017	0.005	0	3.41	0.1745	101.9885	-1.4359	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	6	2.451	52.229	0.016	0.027	0	2.87	0.4299	101.6259	-1.2085	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	1	2.037	53.351	0	0.061	0	3.2	0.2894	102.6484	-1.3474	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	2	3.162	52.067	0	0.062	0	2.937	0.4076	102.3986	-1.2367	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	3	1.508	53.423	0.035	0.004	0.001	3.155	0.296	101.842	-1.3285	-0.0002
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	4	2.31	52.561	0.002	0.044	0.018	2.763	0.478	101.733	-1.1634	-0.0041
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	5	2.228	52.746	0.005	0.014	0.009	2.989	0.3757	101.8677	-1.2586	-0.002
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	6	1.981	53.062	0.001	0.034	0.002	2.888	0.4193	101.5563	-1.2161	-0.0005
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	7	1.384	53.702	0.003	0.04	0.013	2.466	0.6276	101.6366	-1.0384	-0.0029
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	8	1.263	54.066	0.013	0.048	0.005	2.611	0.5638	101.9458	-1.0994	-0.0011
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	1	2.107	52.373	0	0.239	0.009	3.125	0.3048	101.6628	-1.3159	-0.002
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	2	2.508	51.954	0.016	0.208	0.017	3.313	0.2213	102.1123	-1.395	-0.0038
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	3	2.583	51.921	0.012	0.186	0.005	3.233	0.2522	101.7562	-1.3613	-0.0011
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	4	2.265	52.402	0.001	0.208	0.015	3.152	0.2873	101.6103	-1.3272	-0.0034
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	1	2.235	53.401	0	0.038	0.012	3.27	0.2391	102.0031	-1.3769	-0.0027
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	2	2.205	53.39	0.01	0.04	0	2.969	0.3897	102.0397	-1.2502	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	3	2.846	52.159	0	0.016	0.002	3.16	0.2947	102.1347	-1.3306	-0.0005
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	4	2.701	52.467	0.01	0.011	0	3.032	0.358	102.071	-1.2767	0
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	1	2.376	53.235	0.012	0.011	0.01	2.729	0.5118	102.5888	-1.1491	-0.0023
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	2	2.362	53.002	0	0.036	0.018	3.21	0.2786	102.5506	-1.3516	-0.0041

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#	O=F	O=Cl
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	3	3.345	51.834	0.003	0.021	0.017	2.958	0.3912	102.3272	-1.2455	-0.0038
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	4	1.999	53.157	0.007	0.02	0.012	3.115	0.3139	101.9609	-1.3116	-0.0027
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	5	3.119	51.865	0.004	0.023	0	2.973	0.3818	101.9498	-1.2518	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	1	1.555	53.438	0.011	0.172	0.003	2.866	0.4452	102.3922	-1.2068	-0.0007
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	2	1.487	53.245	0.049	0.159	0.001	2.992	0.381	102.048	-1.2598	-0.0002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	3	0.718	53.538	0.088	0.132	0.009	3.173	0.2968	102.4048	-1.3361	-0.002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	4	1.235	53.337	0.063	0.158	0.007	3.061	0.3509	102.3459	-1.2889	-0.0016
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	5	1.339	53.1	0.06	0.169	0.003	3.115	0.321	102.313	-1.3116	-0.0007
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_2_apat	3	1.648	52.603	0.04	0.177	0.002	3.235	0.243	101.167	-1.3622	-0.0005
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	1	1.591	52.961	0.004	0.139	0.017	3.515	0.1114	101.4364	-1.4801	-0.0038
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	2	1.52	52.935	0.011	0.142	0.021	2.943	0.3808	101.0608	-1.2392	-0.0047
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	3	1.454	52.725	0.012	0.226	0.004	2.794	0.4517	101.1007	-1.1765	-0.0009
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	4	1.448	52.683	0.037	0.153	0.009	2.942	0.3921	101.4611	-1.2388	-0.002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	5	1.926	52.494	0.021	0.178	0.015	3.076	0.3189	101.0139	-1.2952	-0.0034
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	1	1.439	53.203	0.041	0.164	0.011	2.548	0.5878	101.7678	-1.0729	-0.0025
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	2	1.397	53.017	0.042	0.185	0.009	2.596	0.5659	101.8309	-1.0931	-0.002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	3	1.497	52.743	0.036	0.166	0.015	2.068	0.8127	101.4947	-0.8708	-0.0034
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	4	0.995	53.865	0.001	0.177	0	2.891	0.42	101.399	-1.2173	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	5	1.245	53.528	0	0.17	0.001	3.166	0.2882	101.5912	-1.3331	-0.0002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	1	1.536	52.198	0.045	0.213	0.007	3.116	0.2892	100.5682	-1.3121	-0.0016
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	2	1.148	52.554	0.054	0.184	0.007	3.093	0.3106	100.8826	-1.3024	-0.0016
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	3	1.884	52.316	0.01	0.13	0.001	2.968	0.3632	100.6822	-1.2497	-0.0002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	4	1.685	52.364	0.018	0.176	0	2.919	0.3848	100.3958	-1.2291	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	5	1.348	52.431	0.036	0.176	0.013	2.677	0.5044	100.7704	-1.1272	-0.0029
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	6	1.816	52.526	0.031	0.193	0.004	2.522	0.5731	100.2781	-1.0619	-0.0009
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	1	1.509	52.894	0.008	0.155	0.007	2.526	0.5889	101.1369	-1.0636	-0.0016
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	2	1.197	53.336	0.015	0.142	0.002	2.107	0.7843	100.8183	-0.8872	-0.0005
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	3	1.412	52.867	0.047	0.185	0.011	2.412	0.644	101.158	-1.0156	-0.0025
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	4	1.722	52.638	0.033	0.125	0.02	2.333	0.6809	101.3089	-0.9824	-0.0045
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	5	1.653	52.701	0.016	0.157	0.005	1.903	0.8886	101.0636	-0.8013	-0.0011
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	1	1.707	52.595	0.031	0.153	0.015	3.096	0.326	102.04	-1.3036	-0.0034
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	2	1.73	52.533	0.047	0.173	0	2.757	0.4779	101.1939	-1.1609	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	3	1.681	52.684	0.043	0.169	0.006	2.972	0.3797	101.7167	-1.2514	-0.0014
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	1	1.167	52.903	0.032	0.179	0	2.879	0.4262	101.4322	-1.2123	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	2	1.445	52.649	0.046	0.191	0	2.974	0.3797	101.4077	-1.2523	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	3	1.244	52.794	0.048	0.155	0.001	3.028	0.3443	100.9773	-1.275	-0.0002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	4	1.71	52.562	0.028	0.17	0.006	2.785	0.4608	101.1118	-1.1727	-0.0014
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	5	1.85	50.93	0.024	0.156	0.013	2.187	0.7245	100.8253	-0.9209	-0.0029
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	1	1.325	52.862	0.024	0.156	0.001	3.222	0.2622	101.6552	-1.3567	-0.0002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	2	1.167	52.576	0.046	0.165	0.008	2.758	0.4731	101.0041	-1.1613	-0.0018
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	3	1.687	52.69	0.013	0.187	0.003	2.72	0.4968	101.4448	-1.1453	-0.0007
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_11_apati	1	1.611	53.498	0.004	0.06	0.009	3.029	0.3698	102.3868	-1.2754	-0.002
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	1	0.868	54.042	0.015	0.167	0.546	1.789	0.827	102.339	-0.7533	-0.1232
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	3	0.893	54.08	0.027	0.111	0.258	2.374	0.6187	102.3467	-0.9996	-0.0582
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	5	0.676	54.11	0.013	0.147	0.375	1.819	0.8411	101.5141	-0.7659	-0.0846
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	1	0.795	52.954	0.034	0.218	0.418	1.953	0.7481	100.6681	-0.8224	-0.0943
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	3	0.0532	53.944	0.016	0.245	0.009	3.162	0.2746	100.9499	-1.3314	-0.002
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_6_apatit	1	0.421	53.624	0.053	0.267	0.021	2.565	0.5487	100.1847	-1.0801	-0.0047
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	1	1.495	53.571	0	0	0.003	2.305	0.7069	101.6489	-0.9706	-0.0007

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#	O=F	O=Cl
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	3	1.49	53.429	0	0.008	0	2.559	0.5927	102.1897	-1.0775	0
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	2	1.178	53.779	0.014	0.122	0.112	1.587	1.0198	101.4708	-0.6682	-0.0253
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	4	0.679	53.076	0.019	0.172	1.43	1.145	0.868	100.624	-0.4821	-0.3227
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	2	0.622	53.359	0.025	0.235	0.501	1.218	1.079	100.525	-0.5129	-0.113
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_9_apatit	3	0.703	52.754	0.022	0.327	0.199	1.444	1.0358	99.6408	-0.608	-0.0449
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	1	1.801	51.782	0.028	0.008	0.014	2.572	0.54	100.051	-1.083	-0.0032
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	3	1.173	53.122	0.003	0.102	0.041	2.795	0.4519	101.0669	-1.1769	-0.0093
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_6_apatit	1	0.569	52.982	0.043	0.443	0.009	3.126	0.2901	100.2701	-1.3163	-0.002
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_8_apatit	2	2.016	52.221	0.013	0.025	0	2.444	0.6281	101.5221	-1.0291	0
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	3	0.797	52.51	0.126	0.192	0.046	2.692	0.5126	101.8676	-1.1335	-0.0104
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	4	0.946	52.62	0.1	0.167	0.033	2.032	0.8247	101.2517	-0.8556	-0.0074
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	2	0.762	52.587	0.134	0.14	0.06	1.773	0.9418	101.1908	-0.7466	-0.0135
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_2_apat	1	0.576	54.902	0.002	0.068	0.012	0.195	1.7252	101.4702	-0.0821	-0.0027
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	1	2.797	51.067	0.039	0.022	0.004	1.966	0.8463	100.7943	-0.8278	-0.0009
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	2	2.435	51.579	0.021	0.017	0	2.204	0.7352	100.9842	-0.928	0
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	3	1.73	52.892	0.005	0.023	0.012	2.049	0.8167	101.1207	-0.8628	-0.0027
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_2_apat	1	1.473	52.182	0	0.447	0.005	2.818	0.4256	100.0161	-1.1866	-0.0011
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_3_apat	5	1.469	52.21	0	0.41	0.01	2.584	0.5579	100.8039	-1.0881	-0.0023
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_4_apat	1	1.782	52.753	0	0.098	0	2.882	0.4329	101.8589	-1.2135	0
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_7_apat	1	2.451	52.724	0.018	0.015	0	2.606	0.5837	103.0117	-1.0973	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	2	0.033	55.099	0	0.195	0.285	2.314	0.6185	101.0625	-0.9744	-0.0643
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	3	0	55.432	0	0.293	0.016	2.211	0.7457	101.384	-0.931	-0.0036
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	5	0.079	55.518	0	0.211	0.01	3.152	0.3086	102.2786	-1.3272	-0.0023
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_1_apati	1	0.183	55.176	0	0.117	0.022	2.966	0.3902	101.8412	-1.2489	-0.005
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	8	0.49	54.871	0.007	0.105	0.351	1.872	0.823	101.565	-0.7882	-0.0792
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	6	0.12	55.805	0.009	0.037	0.033	2.825	0.4686	102.6026	-1.1895	-0.0074
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	7	0.159	55.41	0	0.037	0.013	2.669	0.536	101.827	-1.1238	-0.0029
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	8	0.201	55.421	0.009	0.034	0.021	2.825	0.4648	102.1288	-1.1895	-0.0047
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	9	0.034	55.761	0.007	0	0.056	2.092	0.8056	101.9156	-0.8809	-0.0126
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	10	0.077	55.358	0.005	0.144	0.003	3.168	0.2924	101.6834	-1.334	-0.0007
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	11	0	55.418	0	0.229	0.023	2.584	0.5562	101.1232	-1.0881	-0.0052
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	12	0.005	55.567	0	0.143	0.071	2.966	0.3729	101.7789	-1.2489	-0.016
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	13	0	55.46	0.009	0.182	0.075	2.855	0.4216	101.603	-1.2022	-0.0169
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	14	0	55.704	0	0.024	0.011	3.064	0.336	101.5179	-1.2902	-0.0025
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	15	0.022	55.667	0	0.092	0.006	2.873	0.4445	102.1175	-1.2097	-0.0014
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	1	0	56.018	0	0.122	0.267	2.36	0.6203	102.4047	-0.9937	-0.0602
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	2	0	55.753	0.004	0.138	0.23	2.402	0.6061	102.0084	-1.0114	-0.0519
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	3	0.1789	54.16	0.027	0.292	1.199	1.834	0.6055	101.1125	-0.7722	-0.2705
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	4	0	56.047	0	0.084	0	2.937	0.4086	102.1453	-1.2367	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	5	0.025	55.133	0.014	0.117	0.303	1.894	0.8147	101.1313	-0.7975	-0.0684
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	6	0	54.444	0.022	0.269	0.957	1.697	0.7246	100.5972	-0.7146	-0.2159
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	7	0	56.113	0.001	0.221	0.001	3.147	0.2933	101.642	-1.3251	-0.0002
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	1	0.326	55.218	0	0.139	0.266	2.044	0.7659	101.7509	-0.8607	-0.06
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	2	0.0617	54.789	0.002	0.194	0.53	1.839	0.7776	100.8404	-0.7744	-0.1196
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	3	0.172	54.646	0.007	0.076	0.704	1.831	0.7388	100.8188	-0.771	-0.1589
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	1	0.244	55.293	0.014	0.061	0.204	1.821	0.8852	101.4972	-0.7668	-0.046
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	4	0.227	55.189	0.01	0.044	0.194	1.59	0.9997	101.3147	-0.6695	-0.0438
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	1	0.269	55.455	0.015	0.018	0.025	1.422	1.1319	101.6409	-0.5988	-0.0056
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	2	0.262	55.508	0	0	0.017	0.931	1.3756	101.7496	-0.392	-0.0038

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#	O=F	O=Cl
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	3	0.182	55.435	0.004	0.002	0.028	0.809	1.4231	101.3431	-0.3406	-0.0063
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	4	0.415	54.861	0	0.181	0.275	1.596	0.9665	101.0597	-0.672	-0.0621
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	5	0	54.885	0	0.045	1.342	1.103	0.9096	100.7487	-0.4644	-0.3028
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	6	0.326	55.115	0.013	0.063	0.971	1.351	0.9108	101.5758	-0.5689	-0.2191
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	7	0.19	55.609	0	0.006	0.119	1.64	1.0051	101.9131	-0.6906	-0.0269
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	1	8.105	46.801	0	0.023	0.015	1.93	0.8389	100.3509	-0.8127	-0.0034
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	2	7.979	46.572	0.001	0.043	0.012	2.149	0.7148	99.5008	-0.9049	-0.0027
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	1	2.643	52.523	0.001	0.014	0	2.916	0.4246	102.5656	-1.2278	0
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	3	2.866	51.918	0.001	0.118	0	2.99	0.3862	102.3892	-1.259	0
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	4	1.5826	52.458	0	0.013	0.004	2.901	0.3881	100.8333	-1.2215	-0.0009
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_2_apati	1	2.722	53.122	0.011	0.023	0	2.91	0.4391	103.0591	-1.2253	0
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_5_apati	7	4.76	50.912	0.008	0.119	0.002	3.044	0.3642	102.9832	-1.2817	-0.0005
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	3	3.68	51.665	0	0.029	0.002	2.365	0.6839	102.4279	-0.9958	-0.0005
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	4	4.801	50.341	0	0.018	0.007	2.415	0.6624	102.9444	-1.0169	-0.0016
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	1	0.949	53.109	0.043	0.194	0.011	2.979	0.3719	101.3329	-1.2544	-0.0025
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	2	0.739	53.106	0.053	0.162	0.006	2.81	0.4552	101.3432	-1.1832	-0.0014
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	3	0.886	52.002	0.047	0.209	0.005	3.223	0.2311	100.0621	-1.3571	-0.0011
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	4	0.892	52.829	0.05	0.167	0.003	3.372	0.1872	101.4742	-1.4199	-0.0007
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	5	0.934	52.758	0.022	0.188	0.01	3.237	0.2469	101.3339	-1.363	-0.0023
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	1	1.202	53.539	0.014	0.174	0.005	2.576	0.5693	101.5603	-1.0847	-0.0011
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	2	1.248	53.422	0.016	0.147	0.001	3.161	0.3007	102.1577	-1.331	-0.0002
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	3	0.25	55.438	0	0.029	0.016	3.15	0.3091	102.3401	-1.3264	-0.0036
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	4	0.247	55.687	0	0.077	0.001	3.182	0.3118	102.9858	-1.3399	-0.0002
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	5	0.312	55.453	0.029	0.001	0.009	3.644	0.0735	102.7105	-1.5344	-0.002
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	1	1.092	52.433	0.066	0.169	0.014	3.127	0.2886	100.8446	-1.3167	-0.0032
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	2	1.048	52.495	0.06	0.176	0.023	2.908	0.3945	101.0335	-1.2245	-0.0052
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	3	1.229	52.512	0.033	0.166	0.008	2.998	0.3572	101.0822	-1.2624	-0.0018
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	4	1.096	52.553	0.059	0.199	0	2.895	0.4088	101.0668	-1.219	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	5	1.084	52.561	0.035	0.147	0.011	2.763	0.4701	101.0971	-1.1634	-0.0025
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	1	1.718	52.249	0.013	0.184	0.014	3.195	0.2561	101.2531	-1.3453	-0.0032
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	2	1.668	52.317	0.024	0.179	0.006	2.765	0.4648	101.0578	-1.1643	-0.0014
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	3	1.681	52.129	0.024	0.181	0.021	3.02	0.3345	100.8925	-1.2716	-0.0047
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	4	1.622	52.211	0.021	0.153	0.018	3.099	0.2992	100.8932	-1.3049	-0.0041
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	1	1.356	53.7	0.015	0.053	0.001	2.454	0.6397	102.0387	-1.0333	-0.0002
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	2	1.37	53.776	0.012	0.045	0	2.299	0.717	102.152	-0.968	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	3	1.317	53.663	0.009	0.064	0	2.533	0.6027	102.1877	-1.0666	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	4	1.341	53.713	0	0.053	0.002	2.735	0.5106	102.2646	-1.1516	-0.0005
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	5	1.513	53.514	0.022	0.042	0	2.647	0.5512	102.2502	-1.1146	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	1	0	56.135	0.002	0.062	0	3.586	0.0996	102.6951	-1.51	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	2	0	56.133	0.005	0.051	0.004	3.071	0.3459	102.6245	-1.2931	-0.0009
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	3	1.218	52.863	0.016	0.175	0.01	2.921	0.3914	101.0934	-1.23	-0.0023
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	4	0.1945	55.569	0	0.061	0.004	3.634	0.0728	102.1648	-1.5302	-0.0009
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	5	0.274	54.989	0	0.055	0	2.559	0.5778	101.1188	-1.0775	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_10_apat	3	2.512	53.1	0	0.009	0.003	3.276	0.2502	102.5582	-1.3794	-0.0007
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	1	1.1588	53.161	0.036	0.146	0.349	2.93	0.2971	101.3021	-1.2337	-0.0787
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	2	1.3765	52.624	0.035	0.196	0.483	2.791	0.3235	101.0875	-1.1752	-0.109
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	3	0	54.136	0.045	0.485	0.077	2.56	0.5403	100.5864	-1.0779	-0.0174
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	5	0.8622	53.651	0.022	0.273	0.19	2.387	0.6025	101.0566	-1.0051	-0.0429
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	6	0	54.666	0.028	0.382	0.124	2.672	0.4799	100.9131	-1.1251	-0.028

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#	O=F	O=Cl
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	1	0.401	55.128	0.023	0.128	0.064	2.633	0.5328	101.6468	-1.1087	-0.0144
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	2	0.43	54.931	0.015	0.144	0.039	2.892	0.4198	101.9228	-1.2177	-0.0088
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	3	0.486	54.993	0.011	0.07	0.056	2.727	0.4886	101.6066	-1.1483	-0.0126
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	4	0.439	54.918	0.003	0.13	0.072	3.048	0.3319	101.7469	-1.2834	-0.0162
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	5	0.483	54.782	0.005	0.142	0.073	2.847	0.4301	101.6951	-1.1988	-0.0165
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	6	0.436	55.052	0.018	0.094	0.036	2.698	0.5078	101.5588	-1.1361	-0.0081
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	7	0.0613	55.069	0	0.171	0.038	2.554	0.5704	101.2582	-1.0754	-0.0086
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	8	0.361	54.919	0.025	0.152	0.067	2.385	0.6501	101.6521	-1.0043	-0.0151
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	1	1.319	53.913	0	0.032	0.262	2.563	0.507	101.48	-1.0792	-0.0591
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	2	1.157	53.95	0.023	0.024	0.195	3.089	0.2767	101.6107	-1.3007	-0.044
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	3	1.138	54.133	0.015	0.066	0.205	2.614	0.4942	101.2782	-1.1007	-0.0463
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	4	0.437	54.966	0.014	0.185	0.087	3.027	0.3382	101.8054	-1.2746	-0.0196
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	5	1.297	53.929	0.02	0.039	0.178	2.914	0.3634	101.5524	-1.227	-0.0402
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	1	0	54.414	0.004	0.269	0.172	2.575	0.5171	101.0729	-1.0843	-0.0388
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	2	0.5508	53.828	0.034	0.266	0.18	2.967	0.3273	101.1783	-1.2493	-0.0406
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	3	0.899	54.08	0.013	0.222	0.196	3.072	0.2785	101.4777	-1.2935	-0.0442
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	5	0.4458	54.42	0.022	0.215	0.172	2.668	0.4824	101.5775	-1.1234	-0.0388
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	1	1.983	53.426	0.031	0.068	0.213	3.204	0.2155	101.9695	-1.3491	-0.0481
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	2	2.281	52.56	0.045	0.062	0.163	2.728	0.4437	101.0447	-1.1487	-0.0368
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	3	2.208	52.896	0	0.066	0.102	2.703	0.4821	101.3951	-1.1382	-0.023
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	5	1.971	53.225	0	0.114	0.086	3.252	0.2163	101.4813	-1.3693	-0.0194
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	1	0.44	55.062	0.01	0.006	0.033	2.951	0.3826	101.4246	-1.2426	-0.0074
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	2	1.025	54.711	0.012	0.016	0.109	3.069	0.3256	102.4816	-1.2923	-0.0246
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	3	0.966	54.802	0.017	0.127	0.179	2.824	0.4184	102.4012	-1.1891	-0.0404
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	4	0.534	55.189	0.007	0.114	0.114	2.903	0.3991	102.3471	-1.2224	-0.0257
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	5	0	55.152	0.015	0.182	0.047	3.026	0.3457	101.629	-1.2742	-0.0106
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1	3.067	52.775	0.001	0.09	0	2.782	0.4842	102.5562	-1.1714	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2	0	55.691	0.012	0.293	0	3.057	0.3567	102.5693	-1.2872	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3	0.172	55.607	0.006	0.119	0	2.721	0.5211	102.4341	-1.1457	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1	1.2493	52.936	0.004	0.045	0.093	2.086	0.7385	99.408	-0.8784	-0.021
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2	2.11	52.78	0.076	0.045	0.108	2.25	0.7007	101.3937	-0.9474	-0.0244
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3	0	54.927	0.008	0.26	0	2.45	0.6236	100.7772	-1.0316	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4	2.353	52.385	0	0.046	0.146	2.872	0.3855	101.1815	-1.2093	-0.0329
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5	1.413	53.557	0.025	0.092	0.077	3.077	0.3279	103.0443	-1.2956	-0.0174
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2	1.4467	54.302	0	0.065	0.147	3.258	0.2249	103.1609	-1.3719	-0.0332
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3	0.0538	55.292	0.006	0.164	0.067	3.169	0.2926	103.1158	-1.3344	-0.0151
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1	3.067	52.775	0.001	0.09	0	2.782	0.4842	102.5562	-1.1714	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2	0	55.691	0.012	0.293	0	3.057	0.3567	102.5693	-1.2872	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3	0.172	55.607	0.006	0.119	0	2.721	0.5211	102.4341	-1.1457	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1	1.2493	52.936	0.004	0.045	0.093	2.086	0.7385	99.408	-0.8784	-0.021
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2	2.11	52.78	0.076	0.045	0.108	2.25	0.7007	101.3937	-0.9474	-0.0244
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3	0	54.927	0.008	0.26	0	2.45	0.6236	100.7772	-1.0316	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4	2.353	52.385	0	0.046	0.146	2.872	0.3855	101.1815	-1.2093	-0.0329
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5	1.413	53.557	0.025	0.092	0.077	3.077	0.3279	103.0443	-1.2956	-0.0174
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2	1.4467	54.302	0	0.065	0.147	3.258	0.2249	103.1609	-1.3719	-0.0332
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3	0.0538	55.292	0.006	0.164	0.067	3.169	0.2926	103.1158	-1.3344	-0.0151

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Total	Group	P5+	Total	Group	Nd3+	Ce3+	La3+
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	1	100.4345	P	3.0331	3.0331	M	0.0013	0.0054	0.0002
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	2	100.2436		3.0381	3.0381		0.0035	0.0026	0
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	3	100.6312	P	3.0411	3.0411	M	0.0021	0.005	0.0013
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_2_apati	2	100.5514		3.038	3.038		0.001	0.0044	0
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_3_apati	1	101.2678		3.0282	3.0282		0.0008	0	0.0005
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_4_apati	1	101.1945		3.0301	3.0301		0.001	0.0005	0.0006
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	1	101.9295		3.0213	3.0213		0.001	0.0029	0
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	2	100.9405		3.0359	3.0359		0.0015	0.003	0.0007
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	3	101.6839		3.0367	3.0367		0	0	0
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	4	101.862		3.0255	3.0255		0.0007	0	0
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_6_apati	1	100.9134		3.0287	3.0287		0.0026	0.0023	0.001
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_7_apati	1	99.6714		3.0377	3.0377		0.004	0.0031	0.0011
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_8_apati	1	101.4816		3.0276	3.0276		0.0022	0	0
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	1	101.667		3.0251	3.0251		0.0049	0.014	0.0044
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_5_apat	2	101.2147		3.0265	3.0265		0.0023	0.0111	0.0045
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_6_apat	1	101.2322		3.0365	3.0365		0.0033	0.0023	0.0013
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_8_apat	1	101.5912		3.0292	3.0292		0.0033	0.0124	0.0013
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	2	99.4386		3.0324	3.0324		0.0032	0.014	0.0025
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	3	101.2596		3.0183	3.0183		0.0012	0.0123	0.0039
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	1	99.9279		3.0278	3.0278		0.0032	0.0119	0.0012
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	2	98.3411		3.0108	3.0108		0.0046	0.0127	0.0055
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	3	101.2774		3.0359	3.0359		0.0032	0.0073	0.0017
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	4	101.4224		3.0399	3.0399		0.0023	0.0059	0.0019
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	5	101.2321		3.0387	3.0387		0.0027	0.0021	0
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	1	101.3913		3.0386	3.0386		0.0001	0.0056	0.002
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	2	101.5848		3.0311	3.0311		0.003	0.0056	0.001
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	3	101.2594		3.0357	3.0357		0.0026	0.0056	0.0004
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_4_apat	2	100.7359		3.0234	3.0234		0.0056	0.0076	0.0028
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_5_apat	1	101.045		3.0334	3.0334		0.0048	0.0159	0.0033
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_7_apat	1	99.6397		3.0272	3.0272		0.0019	0.006	0.002
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_7_apat	2	98.7097		2.9961	2.9961		0.0023	0.0065	0.0017
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	1	100.9339		3.0407	3.0407		0.0045	0.0045	0
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	2	101.0792		3.0431	3.0431		0.002	0.0028	0.0008
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	3	98.7847		3.0478	3.0478		0.0045	0	0.0024
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_4_apatit	2	101.5372		3.0308	3.0308		0.0006	0.0054	0.0015
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_6_apatit	1	101.5245		3.0334	3.0334		0.0027	0.0017	0.0013
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_6_apatit	3	101.0466		3.036	3.036		0	0	0
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_7_apatit	1	101.5803		3.031	3.031		0.0055	0.0011	0.0032
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_7_apatit	3	100.9729		3.0306	3.0306		0	0	0.0016
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_8_apatit	1	101.364		3.0358	3.0358		0.0001	0.0041	0.0001
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_8_apatit	2	100.7666		3.0319	3.0319		0.002	0.0093	0
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_2_apatit	1	101.1144		3.001	3.001		0	0	0.0007
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_3_apatit	1	101.8835		3.0197	3.0197		0.0009	0.0019	0
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_3_apatit	2	101.9425		3.0315	3.0315		0	0.0011	0.0004
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_4_apatit	1	101.5356		3.0165	3.0165		0.001	0.0033	0.0005
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_4_apatit	2	98.9692		3.027	3.027		0	0	0.0001
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_5_apatit	3	101.4799		3.0338	3.0338		0.0005	0	0.0016
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_6_apatit	1	99.9832		3.0195	3.0195		0	0	0.0023
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	1	101.7351		3.0281	3.0281		0.0001	0.0014	0.0029

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Total	Group	P5+	Total	Group	Nd3+	Ce3+	La3+	
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	2	101.8177		3.0327	3.0327			0	0	0
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_1_apatit	1	100.4807		3.0427	3.0427		0.0013	0.0037	0.0009	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_1_apatit	3	100.0959		3.0327	3.0327		0.0002	0.0037	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_1_apatit	5	100.4491		3.0412	3.0412		0.0033	0.0069	0.0007	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_2_apatit	1	101.1636		3.0275	3.0275		0	0.0036	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_2_apatit	2	101.3816		3.0409	3.0409		0	0.0009	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_2_apatit	3	100.9928		3.0356	3.0356		0	0	0.0002	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	4	100.4402		3.039	3.039		0	0.0004	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	14	100.4374		3.0326	3.0326		0.0034	0.0048	0.0005	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	15	100.8855		3.0345	3.0345		0.0023	0.0065	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	16	100.0398		3.0361	3.0361		0	0	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_3_apatit	17	100.0607		3.0232	3.0232		0	0	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	5	100.9255		3.0395	3.0395		0	0	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	6	101.6099		3.0377	3.0377		0	0	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	7	101.6667		3.0386	3.0386		0.0008	0.0037	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	8	101.7552		3.0397	3.0397		0	0	0.0017	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_4_apatit	9	101.213		3.0354	3.0354		0	0	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_6_apatit	1	99.1569		3.022	3.022		0	0.0021	0.0009	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_6_apatit	2	99.2693		2.9569	2.9569		0.0012	0	0.0001	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_6_apatit	3	101.2762		2.9817	2.9817		0	0.0026	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_7_apatit	5	100.1773		3.0337	3.0337		0.0003	0.0071	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_8_apatit	1	100.9643		3.0414	3.0414		0	0.0045	0.0012	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_8_apatit	4	100.9085		3.0393	3.0393		0.0007	0.0101	0.0001	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_9_apatit	1	100.1821		3.0317	3.0317		0.0025	0.001	0.0027	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_9_apatit	2	100.0225		3.0353	3.0353		0.0007	0.0061	0	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_9_apatit	3	100.2238		3.0348	3.0348		0.0022	0.0047	0.0016	
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPI	MOSTMEG_Ivo-GfFUR_9_apatit	10	99.9157		3.041	3.041		0.0027	0.0036	0.0021	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	1	101.541		2.981	2.981		0.0026	0	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	2	100.342		2.996	2.996		0	0	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	3	100.3379		3.0107	3.0107		0.0014	0.0006	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	4	101.837		3.0213	3.0213		0.0032	0.0117	0.0038	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	6	101.5784		3.0376	3.0376		0	0	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	1	101.0893		3.0315	3.0315		0.0012	0	0.0006	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	3	101.0296		3.0292	3.0292		0.0005	0.0023	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	4	100.9977		3.0334	3.0334		0.0004	0	0.0015	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	5	101.2995		3.0368	3.0368		0.0012	0	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	6	100.9401		3.0413	3.0413		0.0002	0	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	2	101.6985		3.0391	3.0391		0.0031	0.0042	0.0013	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	4	101.5204		3.0341	3.0341		0.0019	0.0098	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	5	101.0425		3.0191	3.0191		0.005	0.0071	0.0017	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	6	101.9236		3.0346	3.0346		0.0034	0.0073	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	7	101.3167		3.0376	3.0376		0.0008	0.0003	0.0022	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	8	101.9937		3.0392	3.0392		0.0007	0.0076	0.0017	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	1	100.6682		3.0221	3.0221		0.0035	0.0079	0.0022	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	2	101.0562		3.0356	3.0356		0.0016	0.0064	0.0032	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	3	100.9664		3.0389	3.0389		0.0051	0.0028	0.0025	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	2	99.9196		3.0394	3.0394		0.0031	0.0004	0.002	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	3	99.6642		3.0418	3.0418		0.0033	0.0012	0.003	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	4	100.3403		3.0364	3.0364		0.0016	0.0038	0	

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Total	Group	P5+	Total	Group	Nd3+	Ce3+	La3+	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	5	100.3106		3.0413	3.0413			0	0.0065	0.0014
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	6	101.7674		3.0206	3.0206		0.0004	0	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	5	101.7935		3.0377	3.0377		0	0.0019	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	7	101.9111		3.0357	3.0357		0	0	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	9	101.8758		3.0323	3.0323		0	0.0009	0.0013	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	2	101.8247		3.021	3.021		0.001	0.0007	0.001	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	3	101.9874		3.0375	3.0375		0.0003	0.0009	0.0003	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	4	101.8801		3.0355	3.0355		0.0015	0.0014	0	
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphyr	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	5	101.1462		3.0412	3.0412		0	0	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	1	100.0449		3.037	3.037		0	0.0063	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	2	99.9164		3.0344	3.0344		0.0031	0.0071	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	3	99.8381		3.0328	3.0328		0.0036	0.0044	0.0004	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	4	100.1311		3.0337	3.0337		0.0015	0.002	0.0021	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	5	99.4573		3.034	3.034		0	0.0029	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	1	100.4385		3.0079	3.0079		0.0007	0.0056	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	2	100.9832		3.0222	3.0222		0.0021	0.0051	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	3	100.6382		3.0253	3.0253		0	0.0004	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	4	100.394		3.0209	3.0209		0.0012	0.0037	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	5	99.9086		3.0145	3.0145		0.0022	0.0007	0.0022	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	1	100.7699		3.0216	3.0216		0.0013	0.003	0.0019	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	2	100.8339		3.0327	3.0327		0	0.0016	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	3	100.5377		3.0334	3.0334		0.0022	0	0.0015	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	4	100.5403		3.0241	3.0241		0	0	0	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	5	100.8716		3.0308	3.0308		0.0014	0.0028	0.0008	
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_8_apatit	1	100.4028		3.0152	3.0152		0.0011	0.0045	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	1	100.5428		3.0268	3.0268		0.001	0.0054	0.0003	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	2	100.6838		3.026	3.026		0.0003	0.0031	0.0016	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	3	100.1697		3.0203	3.0203		0	0	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	4	100.7446		3.0257	3.0257		0	0.0057	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	5	100.5526		3.0289	3.0289		0.0012	0	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	6	100.4174		3.0323	3.0323		0.0015	0	0.0003	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	1	101.301		3.0286	3.0286		0.0005	0.0034	0.0022	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	2	101.1619		3.0306	3.0306		0	0.0053	0.0001	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	3	100.5133		3.0204	3.0204		0.0004	0.0054	0.0005	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	4	100.5656		3.028	3.028		0.0009	0.0014	0.0006	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	5	100.6071		3.0306	3.0306		0	0	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	6	100.3398		3.0211	3.0211		0.0001	0	0.0015	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	7	100.5953		3.0325	3.0325		0.0015	0.0006	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	8	100.8452		3.0252	3.0252		0.0004	0.002	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	1	100.345		3.0335	3.0335		0.0028	0.0068	0.0006	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	2	100.7134		3.0419	3.0419		0.0018	0.0026	0.0001	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	3	100.3938		3.0293	3.0293		0.0024	0.0069	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	4	100.2797		3.0242	3.0242		0.0016	0.0037	0.0002	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	1	100.6235		3.0162	3.0162		0.0002	0.0016	0.0005	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	2	100.7895		3.0211	3.0211		0	0.0026	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	3	100.8036		3.0267	3.0267		0	0.0031	0.0012	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	4	100.7943		3.0267	3.0267		0	0.0004	0.0002	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	1	101.4374		3.0244	3.0244		0.0006	0.0019	0	
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	2	101.1949		3.031	3.031		0	0	0	

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Total	Group	P5+	Total	Group	Nd3+	Ce3+	La3+
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apat	3	101.0779		3.0294	3.0294		0	0.0001	0.0013
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apat	4	100.6466		3.0209	3.0209		0	0	0.001
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apat	5	100.698		3.0262	3.0262		0	0	0.0005
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	1	101.1847		3.0263	3.0263		0.0027	0.004	0.0016
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	2	100.788		3.0289	3.0289		0.0008	0.0006	0.0015
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	3	101.0667		3.0261	3.0261		0.0045	0.0018	0.0016
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	4	101.0554		3.0288	3.0288		0.0017	0.0023	0.0011
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	5	101.0007		3.0233	3.0233		0.0038	0.0068	0.0028
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_2_apat	3	99.8044		3.018	3.018		0.0002	0.0041	0.0007
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	1	99.9525		3.0253	3.0253		0.0008	0.0043	0.0013
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	2	99.8169		3.0301	3.0301		0.0002	0.01	0.0024
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	3	99.9234		3.0218	3.0218		0.0085	0.016	0.0025
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	4	100.2202		3.0352	3.0352		0.0019	0.0071	0.0011
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	5	99.7153		3.0368	3.0368		0.0011	0.0039	0.003
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	1	100.6924		3.0312	3.0312		0.001	0.0056	0.0013
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	2	100.7358		3.0335	3.0335		0.0026	0.0053	0.0009
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	3	100.6205		3.0354	3.0354		0.0019	0.0084	0.0013
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	4	100.1816		3.0258	3.0258		0.003	0.0049	0.0004
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	5	100.2579		3.0267	3.0267		0.0028	0.0077	0.0014
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	1	99.2546		3.0217	3.0217		0.0005	0.0035	0.0014
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	2	99.5787		3.0328	3.0328		0.0017	0.0011	0.0015
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	3	99.4322		3.0216	3.0216		0.0021	0.0074	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	4	99.1667		3.023	3.023		0.0017	0	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	5	99.6402		3.0272	3.0272		0.0021	0.0065	0.001
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	6	99.2153		3.0195	3.0195		0.0002	0	0.0022
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	1	100.0717		3.0325	3.0325		0	0.0039	0.0005
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	2	99.9306		3.022	3.022		0.0029	0.0088	0.0009
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	3	100.1398		3.0328	3.0328		0.001	0.0014	0.0002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	4	100.322		3.0373	3.0373		0.0015	0.0081	0.0009
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	5	100.2612		3.0357	3.0357		0	0.0074	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	1	100.733		3.0368	3.0368		0.0001	0.0044	0.0035
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	2	100.033		3.0286	3.0286		0.0002	0.004	0.0009
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	3	100.4639		3.0263	3.0263		0.0022	0.007	0.0007
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	1	100.2199		3.0351	3.0351		0.0018	0.0022	0.0007
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	2	100.1555		3.0368	3.0368		0.0016	0.003	0.0005
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	3	99.7021		3.027	3.027		0.0023	0	0.0005
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	4	99.9377		3.0268	3.0268		0.0009	0.0011	0.0025
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	5	99.9015		2.9811	2.9811		0.0042	0.0106	0
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	1	100.2983		3.0317	3.0317		0.0039	0.0032	0.0002
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	2	99.8409		3.0332	3.0332		0.0035	0.004	0.0031
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	3	100.2988		3.0256	3.0256		0.0036	0.0102	0
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_11_apat	1	101.1093		3.037	3.037		0	0	0.0009
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	1	101.4625		3.0373	3.0373		0	0	0.0009
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	3	101.2888		3.0295	3.0295		0	0.003	0
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	5	100.6636		3.0257	3.0257		0	0	0.0014
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	1	99.7514		3.03	3.03		0.0021	0.0031	0
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	3	99.6164		2.9823	2.9823		0	0.0018	0.0012
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_6_apatit	1	99.1		2.9953	2.9953		0	0	0
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	1	100.6777		3.03	3.03		0	0	0

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Total	Group	P5+	Total	Group	Nd3+	Ce3+	La3+
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	3	101.1121		3.033	3.033		0	0.0076	0.0003
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	2	100.7773		3.023	3.023		0	0.0006	0.0003
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	4	99.8192		3.0261	3.0261		0	0	0.0013
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	2	99.899		3.0255	3.0255		0	0.0014	0
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_9_apatit	3	98.9879		3.029	3.029		0.0003	0	0
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	1	98.9648		3.0222	3.0222		0	0.0012	0.0008
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	3	99.8807		3.0374	3.0374		0.0005	0	0.0013
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_6_apatit	1	98.9518		3.0404	3.0404		0	0.0009	0
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_8_apatit	2	100.493		3.0183	3.0183		0.0002	0.0039	0.0022
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	3	100.7237		3.0437	3.0437		0.0016	0.0062	0.0008
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	4	100.3887		3.0417	3.0417		0	0.0056	0.0003
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	2	100.4307		3.0411	3.0411		0.0021	0.0019	0
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_2_apat	1	101.3853		3.0322	3.0322		0.0015	0.0036	0
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	1	99.9655		3.0296	3.0296		0	0.0016	0
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	2	100.0562		3.0239	3.0239		0	0.0023	0.0011
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	3	100.2552		3.0301	3.0301		0	0.0016	0
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_2_apat	1	98.8284		3.0146	3.0146		0.0014	0	0
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_3_apat	5	99.7136		3.0494	3.0494		0	0.0036	0.0021
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_4_apat	1	100.6453		3.0402	3.0402		0	0	0
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_7_apat	1	101.9144		3.0393	3.0393		0	0	0.0003
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	2	100.0238		3.0104	3.0104		0.0002	0.0018	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	3	100.4494		3.006	3.006		0	0	0.0002
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	5	100.9492		3.0129	3.0129		0	0.002	0.0021
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_1_apati	1	100.5874		3.0224	3.0224		0.001	0.0009	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	8	100.6975		3.0164	3.0164		0	0.0014	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	6	101.4056		3.0192	3.0192		0	0.0015	0.0015
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	7	100.7002		3.0204	3.0204		0	0	0.0011
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	8	100.9345		3.0243	3.0243		0	0	0.0009
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	9	101.022		3.02	3.02		0.001	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	10	100.3488		3.0106	3.0106		0	0	0.0014
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	11	100.0299		2.9983	2.9983		0.0022	0.0003	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	12	100.514		3.0074	3.0074		0.0012	0.0009	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	13	100.3839		3.0043	3.0043		0	0.0023	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	14	100.2253		3.0007	3.0007		0	0	0.0001
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	15	100.9064		3.0179	3.0179		0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	1	101.3508		2.9966	2.9966		0	0.0096	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	2	100.945		3.003	3.003		0	0.0015	0.0023
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	3	100.0698		3.0012	3.0012		0.0005	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	4	100.9086		2.9912	2.9912		0	0.0029	0.0014
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	5	100.2654		2.9949	2.9949		0	0.0043	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	6	99.6667		2.9873	2.9873		0.0003	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	7	100.3167		2.9706	2.9706		0	0.0006	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	1	100.8302		3.0134	3.0134		0	0.0029	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	2	99.9464		3.0004	3.0004		0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	3	99.889		3.0203	3.0203		0	0	0.0001
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	1	100.6844		3.0113	3.0113		0.0011	0.003	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	4	100.6014		3.0222	3.0222		0.0001	0.0032	0.0001
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	1	101.0365		3.0228	3.0228		0	0.0029	0.0013
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	2	101.3537		3.0317	3.0317		0.0023	0.0017	0

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Total	Group	P5+	Total	Group	Nd3+	Ce3+	La3+
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	3	100.9961		3.0273	3.0273		0	0.006	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	4	100.3257		3.0093	3.0093		0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	5	99.9815		2.9855	2.9855		0.0014	0.0047	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	6	100.7879		3.0159	3.0159		0	0	0
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	7	101.1957		3.0194	3.0194		0.0004	0.0051	0
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	1	99.5348		3.0385	3.0385		0	0.0003	0
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	2	98.5932		3.0261	3.0261		0	0.006	0
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	1	101.3377		3.0348	3.0348		0	0	0.0005
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	3	101.1302		3.0418	3.0418		0	0	0
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	4	99.6109		2.9467	2.9467		0	0	0
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_2_apati	1	101.8338		3.038	3.038		0	0	0
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_5_apati	7	101.701		3.0412	3.0412		0	0.0018	0.0014
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	3	101.4316		3.0342	3.0342		0.0001	0.0005	0
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	4	101.9259		3.0399	3.0399		0.0008	0.0022	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	1	100.076		3.027	3.027		0.0031	0	0.0014
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	2	100.1587		3.0313	3.0313		0.0016	0.0066	0.0024
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	3	98.7038		3.0316	3.0316		0.002	0.0099	0.0026
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	4	100.0537		3.0348	3.0348		0.0024	0.0067	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	5	99.9686		3.0338	3.0338		0.0042	0.0068	0.0014
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	1	100.4745		3.0186	3.0186		0.0024	0.0064	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	2	100.8264		3.0298	3.0298		0.0044	0.0036	0.0018
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	3	101.0101		3.0158	3.0158		0.0024	0	0.0002
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	4	101.6457		3.0227	3.0227		0	0.0022	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	5	101.1741		3.0026	3.0026		0.002	0.0069	0.0006
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	1	99.5248		3.0268	3.0268		0.0026	0.0051	0.0006
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	2	99.8038		3.0284	3.0284		0.0038	0.0081	0.0023
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	3	99.818		3.031	3.031		0.0037	0.0025	0.0039
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	4	99.8478		3.0311	3.0311		0.0034	0.0086	0.0012
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	5	99.9312		3.0327	3.0327		0.0032	0.008	0.002
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	1	99.9046		3.0155	3.0155		0.005	0.0076	0.0018
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	2	99.8921		3.0186	3.0186		0.0027	0.0071	0.0005
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	3	99.6162		3.0198	3.0198		0.0036	0.0078	0.0001
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	4	99.5842		3.0229	3.0229		0.0041	0.0056	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	1	101.0052		3.0242	3.0242		0.0022	0.0001	0.0029
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	2	101.1839		3.0252	3.0252		0	0.005	0.0006
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	3	101.1211		3.024	3.024		0	0.0096	0.0022
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	4	101.1125		3.0325	3.0325		0	0.002	0.0001
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	5	101.1356		3.0285	3.0285		0.0017	0	0.0016
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	1	101.1852		2.9718	2.9718		0.0032	0.0003	0.0001
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	2	101.3305		2.9763	2.9763		0.0028	0.0066	0.0003
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	3	99.8612		3.0212	3.0212		0.0042	0.0063	0.0011
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	4	100.6337		3.0006	3.0006		0.0005	0.0009	0
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	5	100.0413		3.0153	3.0153		0.0011	0	0.0007
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_10_apat	3	101.1781		3.0291	3.0291		0	0.0005	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	1	99.9896		2.9731	2.9731		0	0.0011	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	2	99.8033		2.9724	2.9724		0	0.0011	0.001
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	3	99.4911		2.9783	2.9783		0	0	0.0019
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	5	100.0087		2.9939	2.9939		0.001	0.0012	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	6	99.76		2.9803	2.9803		0	0	0.0007

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Total	Group	P5+	Total	Group	Nd3+	Ce3+	La3+
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	1	100.5237		3.0092	3.0092		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	2	100.6963		3.0166	3.0166		0	0	0.0031
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	3	100.4457		3.0108	3.0108		0.0004	0	0.0009
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	4	100.4472		3.012	3.012		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	5	100.4799		3.0209	3.0209		0.0001	0	0.0006
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	6	100.4146		3.0118	3.0118		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	7	100.1742		2.9994	2.9994		0.0002	0	0.0002
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	8	100.6327		3.0117	3.0117		0.001	0.008	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	1	100.3416		3.0152	3.0152		0	0.0039	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	2	100.266		3.0226	3.0226		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	3	100.1312		3.0098	3.0098		0	0.0009	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	4	100.5112		3.0049	3.0049		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	5	100.2853		3.0192	3.0192		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	1	99.9499		2.979	2.979		0	0	0.0014
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	2	99.8883		2.9942	2.9942		0	0.0044	0.0011
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	3	100.1399		3.0031	3.0031		0.0004	0.001	0.0015
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	5	100.4153		2.9924	2.9924		0	0.0001	0.001
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	1	100.5724		3.0115	3.0115		0.0016	0.0014	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	2	99.8593		3.0217	3.0217		0	0.0019	0.0012
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	3	100.2339		3.0303	3.0303		0	0	0.0006
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	5	100.0925		3.0101	3.0101		0	0.0081	0.0002
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	1	100.1746		3.0024	3.0024		0.0004	0.0009	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	2	101.1647		3.0183	3.0183		0.0008	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	3	101.1717		3.0042	3.0042		0	0.0029	0.0005
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	4	101.099		3.0081	3.0081		0	0.0018	0.0002
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	5	100.3442		2.9935	2.9935		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1	101.3848		3.017	3.017		0	0.0007	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2	101.2821		2.9821	2.9821		0.0001	0.0009	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3	101.2883		3.0093	3.0093		0	0.0003	0.0014
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1	98.5087		2.9825	2.9825		0	0.006	0.0013
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2	100.4219		3.0342	3.0342		0.0001	0.0006	0.0008
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3	99.7455		3.0082	3.0082		0.0008	0	0.0014
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4	99.9393		3.0364	3.0364		0	0	0.0007
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5	101.7313		2.9978	2.9978		0.0005	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2	101.7559		2.9748	2.9748		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3	101.7663		2.9791	2.9791		0	0.0063	0.0005
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1	101.3848		3.017	3.017		0	0.0007	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2	101.2821		2.9821	2.9821		0.0001	0.0009	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3	101.2883		3.0093	3.0093		0	0.0003	0.0014
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1	98.5087		2.9825	2.9825		0	0.006	0.0013
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2	100.4219		3.0342	3.0342		0.0001	0.0006	0.0008
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3	99.7455		3.0082	3.0082		0.0008	0	0.0014
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4	99.9393		3.0364	3.0364		0	0	0.0007
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5	101.7313		2.9978	2.9978		0.0005	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2	101.7559		2.9748	2.9748		0	0	0
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3	101.7663		2.9791	2.9791		0	0.0063	0.0005

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+	Na+	Total
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	1	0	0	0	0	0.0354	0.0583	4.7934	0.0098	0.0197	4.9237
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	2	0	0	0	0	0.0612	0.0808	4.7181	0.0247	0.0214	4.9123
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	3	0	0	0	0	0.0131	0.0407	4.8184	0.0025	0.0198	4.903
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_2_apati	2	0	0	0	0	0.0089	0.0048	4.8814	0.0004	0.0027	4.9036
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_3_apati	1	0	0	0	0	0.0121	0.0127	4.8944	0.006	0.0046	4.9311
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_4_apati	1	0	0	0	0	0.0554	0.0708	4.7738	0.0149	0.0133	4.9304
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	1	0	0	0	0	0.0095	0.0054	4.9233	0.0009	0.0035	4.9466
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	2	0	0	0	0	0.0107	0.0022	4.8854	0.0028	0.0029	4.9092
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	3	0	0	0	0	0.0137	0.0047	4.8862	0.0037	0	4.9083
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	4	0	0	0	0	0.0112	0.0036	4.9185	0.0011	0.0014	4.9365
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_6_apati	1	0	0	0	0	0.0717	0.0785	4.7371	0.0218	0.02	4.9352
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_7_apati	1	0	0	0	0	0.031	0.0375	4.8048	0.0089	0.0226	4.913
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_8_apati	1	0	0	0	0	0.0068	0.0063	4.9125	0	0.0042	4.9319
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	1	0	0	0	0	0.0139	0.0063	4.8669	0.0084	0.0136	4.9324
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_5_apat	2	0	0	0	0.0025	0.0235	0.0079	4.8604	0.0069	0.0114	4.9305
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_6_apat	1	0	0	0	0.0006	0.0128	0.0061	4.8669	0.007	0.0101	4.9104
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_8_apat	1	0	0	0	0.0007	0.0121	0.0081	4.8688	0.0057	0.0123	4.9246
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	2	0	0	0	0	0.0312	0.0066	4.8272	0.0187	0.0116	4.915
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	3	0	0	0	0	0.0165	0.0066	4.894	0.0065	0.009	4.95
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	1	0	0	0	0	0.0126	0.0087	4.8583	0.0098	0.0337	4.9392
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	2	0.0117	0.0101	0	0.0003	0	0	4.8575	0.0048	0.0871	4.9943
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	3	0	0	0	0.0032	0.0108	0.0095	4.8601	0.0043	0.0087	4.9086
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	4	0	0	0	0.0026	0.0096	0.0099	4.8518	0.0036	0.0155	4.903
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	5	0	0	0	0	0.0105	0.0073	4.866	0.005	0.0142	4.9079
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	1	0	0	0	0	0.0184	0.0093	4.8505	0.0089	0.0099	4.9046
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	2	0	0	0	0.0034	0.0199	0.0051	4.8439	0.0262	0.0185	4.9267
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	3	0	0	0	0.0012	0.0113	0.009	4.8659	0.0059	0.0088	4.9108
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_4_apat	2	0	0	0	0	0.0128	0.0077	4.8837	0.0072	0.0123	4.9396
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_5_apat	1	0	0	0	0	0.013	0.0044	4.8497	0.0067	0.0135	4.9113
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_7_apat	1	0	0	0	0	0.015	0.0103	4.88	0.0063	0.0109	4.9324
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_7_apat	2	0.0137	0	0	0	0.0017	0.0146	4.9435	0.0072	0.0125	5.0039
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	1	0	0	0	0	0.0193	0.02	4.8307	0.0025	0.0247	4.9061
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	2	0	0	0	0	0.0151	0.0181	4.8373	0.0017	0.0235	4.9014
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	3	0	0	0	0	0.0137	0.0205	4.8056	0.0034	0.0537	4.9039
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_4_apatit	2	0	0	0	0	0.017	0.0475	4.8371	0.0074	0.0054	4.922
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_6_apatit	1	0	0	0	0	0.0293	0.0364	4.824	0.0061	0.0241	4.9257
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_6_apatit	3	0	0	0	0	0.0264	0.0437	4.8254	0.0046	0.0197	4.9198
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_7_apatit	1	0	0	0	0	0.031	0.0563	4.8039	0.0043	0.025	4.9301
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_7_apatit	3	0	0	0	0	0.0358	0.0552	4.8141	0.009	0.014	4.9297
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_8_apatit	1	0	0	0	0	0.0289	0.0608	4.8002	0.0071	0.0144	4.9157
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_8_apatit	2	0	0	0	0	0.0198	0.0392	4.8309	0.0071	0.0127	4.921
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_2_apatit	1	0	0	0	0	0	0.007	4.9879	0.0015	0.0002	4.9972
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_3_apatit	1	0	0	0	0	0.0008	0.009	4.9357	0	0.0021	4.9504
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_3_apatit	2	0	0	0	0	0.0027	0.0064	4.9069	0	0.006	4.9235
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_4_apatit	1	0	0	0	0	0.002	0.016	4.9262	0.0014	0.012	4.9623
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_4_apatit	2	0	0	0	0	0.0028	0.0122	4.9112	0.0006	0.011	4.9379
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_5_apatit	3	0	0	0	0	0.0068	0.0297	4.873	0.0009	0.0038	4.9163
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_6_apatit	1	0	0	0	0	0.0003	0.0141	4.9296	0.0009	0.0057	4.9529
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	1	0	0	0	0	0	0.0167	4.9054	0	0.0021	4.9286

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+	Na+	Total
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	2	0	0	0	0	0.0022	0.0102	4.9059	0	0	4.9184
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_1_apatit	1	0	0	0	0	0.0615	0.0435	4.756	0.0133	0.0203	4.9006
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_1_apatit	3	0	0	0	0	0.0525	0.035	4.7907	0.0218	0.0245	4.9285
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_1_apatit	5	0	0	0	0	0.0602	0.0425	4.7414	0.0223	0.0288	4.906
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_2_apatit	1	0	0	0	0	0.0192	0.4388	4.4647	0.0012	0.0039	4.9315
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_2_apatit	2	0	0	0	0	0.0156	0.4068	4.4679	0.0015	0.0092	4.9019
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_2_apatit	3	0	0	0	0	0.0231	0.5111	4.3735	0.0001	0.0059	4.9139
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	4	0	0	0	0	0.0074	0.2948	4.5984	0.001	0.0005	4.9025
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	14	0	0	0	0	0.0003	0.0024	4.9001	0	0.0056	4.9171
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	15	0	0	0	0	0.0012	0.0015	4.8975	0	0.001	4.9099
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	16	0	0	0	0	0.0094	0.2646	4.634	0	0.0036	4.9115
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	17	0	0	0	0	0.0006	0.0059	4.9315	0.0015	0.005	4.9445
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	5	0	0	0	0	0.0109	0.337	4.5488	0.0012	0.0068	4.9048
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	6	0	0	0	0	0.0153	0.4336	4.4563	0.0005	0	4.9057
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	7	0	0	0	0	0.0159	0.4439	4.4366	0.0002	0	4.9011
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	8	0	0	0	0	0.0203	0.395	4.4799	0	0.0061	4.9031
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	9	0	0	0	0	0.0128	0.3691	4.526	0.0031	0.0011	4.9121
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_6_apatit	1	0	0	0	0	0.0631	0.0322	4.8253	0.0122	0.0157	4.9514
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_6_apatit	2	0.0289	0.0043	0	0	0	0	5.051	0.0032	0.0036	5.0923
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_6_apatit	3	0.057	0	0	0	0.031	0.003	4.8894	0.031	0.0045	5.0183
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_7_apatit	5	0	0	0	0.0029	0.0075	0.344	4.545	0.0009	0.0087	4.9164
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_8_apatit	1	0	0	0	0	0.0588	0.0473	4.7543	0.0142	0.0267	4.907
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_8_apatit	4	0	0	0	0	0.0624	0.0437	4.7473	0.018	0.0282	4.9105
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_9_apatit	1	0	0	0	0	0.0553	0.0437	4.7885	0.0112	0.0256	4.9305
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_9_apatit	2	0	0	0	0	0.0548	0.0463	4.7752	0.0129	0.0249	4.9207
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_9_apatit	3	0	0	0	0	0.0597	0.0458	4.7716	0.0091	0.0287	4.9232
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_9_apatit	10	0	0	0	0	0.0423	0.0524	4.7687	0.0101	0.0226	4.9045
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	1	0.0016	0.0279	0	0.0056	0	0	4.9884	0.0022	0.0064	5.0347
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	2	0.0026	0.0174	0	0.0087	0	0.0247	4.9426	0	0.008	5.004
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	3	0	0	0	0	0.0048	0.0648	4.8904	0	0.0204	4.9825
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	4	0	0	0	0	0.0282	0.0008	4.8848	0.0023	0.0053	4.9401
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	6	0	0	0	0.0045	0.0231	0.274	4.5986	0.0028	0.0061	4.9091
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	1	0	0	0	0.0003	0	0	4.9148	0	0.0067	4.9237
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	3	0	0	0	0	0.0068	0.1815	4.726	0.0028	0.0116	4.9315
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	4	0	0	0	0	0.0065	0.2334	4.6681	0.0011	0.0092	4.9202
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	5	0	0	0	0	0.0074	0.2507	4.641	0.0022	0.01	4.9125
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	6	0	0	0	0	0.0086	0.2111	4.6712	0.0015	0.0081	4.9006
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	2	0	0	0	0	0.0565	0.0395	4.7649	0.0173	0.0219	4.9088
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	4	0	0	0	0	0.0581	0.0749	4.7418	0.011	0.0233	4.9207
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	5	0	0	0	0	0.0676	0.0562	4.7805	0.0168	0.0213	4.9561
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	6	0	0	0	0	0.0721	0.0347	4.7624	0.0155	0.0252	4.9207
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	7	0	0	0	0	0.0506	0.0383	4.7922	0.0113	0.0175	4.9132
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	8	0	0	0	0	0.0705	0.0369	4.7518	0.0165	0.0223	4.9081
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	1	0	0	0	0	0.0621	0.0361	4.8012	0.0171	0.016	4.9461
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	2	0	0	0	0	0.0566	0.0401	4.7683	0.017	0.0243	4.9175
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	3	0	0	0	0	0.0624	0.0382	4.7576	0.0204	0.0174	4.9063
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	2	0	0	0	0	0.0451	0.0388	4.7851	0.0112	0.026	4.9117
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	3	0	0	0	0	0.0405	0.053	4.771	0.0083	0.0231	4.9033
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	4	0	0	0	0	0.0773	0.2131	4.5895	0.0112	0.02	4.9165

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+	Na+	Total
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	5	0	0	0	0.0006	0.0465	0.058	4.7557	0.0125	0.0233	4.9045
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	6	0	0	0	0	0.0262	0.0036	4.9144	0.002	0.0035	4.95
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	5	0	0	0	0	0.0734	0.1605	4.6578	0.0054	0.0114	4.9105
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	7	0	0	0	0.0051	0.0027	0.0629	4.8384	0.0017	0	4.9109
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	9	0	0	0	0.0022	0.0023	0.0462	4.8632	0	0.004	4.9202
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	2	0	0	0	0	0.0027	0.0133	4.926	0.0001	0.0025	4.9474
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	3	0	0	0	0.001	0.0036	0.0804	4.8151	0.0004	0.0067	4.9087
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	4	0	0	0	0.004	0.0055	0.1311	4.7621	0.0016	0.0053	4.9125
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	5	0	0	0	0.003	0.0118	0.5425	4.3364	0	0.0065	4.9003
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	1	0	0	0	0	0.0605	0.1386	4.6873	0.0016	0.02	4.9144
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	2	0	0	0	0	0.0462	0.119	4.7197	0.0021	0.0231	4.9204
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	3	0	0	0	0	0.0382	0.1326	4.722	0.0011	0.023	4.9253
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	4	0	0	0	0	0.046	0.132	4.7138	0.0022	0.0268	4.9264
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	5	0	0	0	0	0.051	0.1599	4.6837	0.003	0.026	4.9266
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	1	0	0	0	0	0.0146	0.0912	4.8513	0	0.0276	4.991
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	2	0	0	0	0	0.0281	0.1032	4.7909	0.0005	0.0223	4.952
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	3	0	0	0	0	0.018	0.0667	4.841	0.0015	0.0179	4.9455
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	4	0	0	0	0	0.0105	0.0378	4.8757	0.0011	0.0303	4.9604
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	5	0	0	0	0	0.0167	0.0666	4.8547	0	0.0362	4.9792
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	1	0	0	0	0	0.0151	0.0572	4.8524	0.0004	0.0231	4.9545
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	2	0	0	0	0	0.016	0.0603	4.8273	0	0.0243	4.9296
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	3	0	0	0	0	0.0144	0.0678	4.8139	0	0.0296	4.9293
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	4	0	0	0	0	0.0129	0.0564	4.8612	0.0017	0.015	4.9472
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	5	0	0	0	0	0.0296	0.0973	4.7768	0.0016	0.0205	4.9308
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_8_apatit	1	0	0	0	0	0.0259	0.0712	4.8555	0.0011	0	4.9593
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	1	0	0	0	0	0.0745	0.2296	4.6158	0.0029	0.001	4.9302
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	2	0	0	0	0	0.0636	0.2221	4.6391	0.0007	0.0037	4.9343
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	3	0	0	0	0	0.0656	0.2268	4.6492	0.0057	0.0039	4.9512
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	4	0	0	0	0	0.0536	0.2058	4.667	0.0001	0.0015	4.9337
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	5	0	0	0	0	0.0419	0.1891	4.6925	0.0021	0.0008	4.9276
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	6	0	0	0	0	0.0534	0.1738	4.6852	0.002	0.0044	4.9205
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	1	0	0	0	0	0.0278	0.1432	4.7436	0	0.0098	4.9304
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	2	0	0	0	0.0013	0.0401	0.223	4.646	0	0.01	4.9258
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	3	0	0	0	0	0.0397	0.1069	4.7884	0.0044	0.0006	4.9462
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	4	0	0	0	0	0.0483	0.1636	4.7097	0.0002	0.0071	4.932
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	5	0	0	0	0	0.0443	0.1576	4.7197	0.0006	0.0023	4.9245
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	6	0	0	0	0	0.0371	0.1406	4.7641	0.0001	0.0055	4.9492
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	7	0	0	0	0	0.0224	0.0976	4.792	0.0004	0.0065	4.921
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	8	0	0	0	0	0.0223	0.0889	4.8167	0.0016	0.0077	4.9397
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	1	0	0	0	0.0003	0.0285	0.1496	4.703	0	0.0388	4.9305
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	2	0	0	0	0	0.0468	0.1773	4.6456	0.002	0.0337	4.9098
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	3	0	0	0	0	0.0439	0.1836	4.6688	0.0015	0.0303	4.9372
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	4	0	0	0	0	0.039	0.1611	4.7142	0.0001	0.0339	4.9537
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	1	0	0	0	0	0.0094	0.1583	4.7853	0	0.0062	4.9615
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	2	0	0	0	0	0.0117	0.1558	4.7714	0.0012	0.0065	4.9492
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	3	0	0	0	0	0.0522	0.2015	4.6717	0	0.0026	4.9323
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	4	0	0	0	0	0.0456	0.191	4.6937	0.0012	0.0018	4.9339
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	1	0	0	0	0	0.037	0.1669	4.729	0.0015	0.0018	4.9386
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	2	0	0	0	0	0.0371	0.1662	4.7163	0	0.0058	4.9254

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+	Na+	Total
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	3	0	0	0	0	0.0554	0.2362	4.6307	0.0004	0.0034	4.9275
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	4	0	0	0	0	0.0424	0.1415	4.7598	0.0009	0.0032	4.9488
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	5	0	0	0	0	0.0597	0.2211	4.6505	0.0005	0.0037	4.9361
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	1	0	0	0	0	0.0413	0.1094	4.756	0.0014	0.0277	4.944
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	2	0	0	0	0	0.0477	0.1049	4.7518	0.0061	0.0257	4.939
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	3	0	0	0	0	0.0826	0.0506	4.7684	0.0109	0.0213	4.9416
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	4	0	0	0	0	0.0637	0.0869	4.7492	0.0078	0.0255	4.9381
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	5	0	0	0	0	0.0639	0.0945	4.742	0.0075	0.0273	4.9486
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_2_apat	3	0	0	0	0	0.0562	0.1177	4.7542	0.005	0.0289	4.967
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	1	0	0	0	0	0.0286	0.1134	4.7733	0.0005	0.0227	4.9448
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	2	0	0	0	0	0.0118	0.1083	4.7728	0.0014	0.0232	4.93
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	3	0	0	0	0	0.0164	0.1039	4.7647	0.0015	0.037	4.9505
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	4	0	0	0	0	0.0474	0.1028	4.7296	0.0046	0.0249	4.9194
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	5	0	0	0	0	0.0075	0.1373	4.7341	0.0026	0.029	4.9186
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	1	0	0	0	0	0.0389	0.1016	4.7513	0.0051	0.0265	4.9313
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	2	0	0	0	0	0.0506	0.0986	4.7336	0.0052	0.0299	4.9268
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	3	0	0	0	0	0.0556	0.1058	4.7147	0.0045	0.0269	4.919
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	4	0	0	0	0	0.006	0.0706	4.8319	0.0001	0.0287	4.9456
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	5	0	0	0	0	0.0088	0.0883	4.8045	0	0.0276	4.9412
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	1	0	0	0	0	0.0627	0.1103	4.7413	0.0057	0.035	4.9605
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	2	0	0	0	0	0.0622	0.0819	4.7455	0.0068	0.0301	4.9308
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	3	0	0	0	0	0.0387	0.1351	4.746	0.0013	0.0213	4.9519
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	4	0	0	0	0	0.0471	0.121	4.7553	0.0023	0.0289	4.9562
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	5	0	0	0	0	0.0627	0.0963	4.7396	0.0045	0.0288	4.9415
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	6	0	0	0	0	0.0305	0.1303	4.7671	0.0039	0.0317	4.9659
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	1	0	0	0	0	0.0405	0.1071	4.751	0.001	0.0252	4.9292
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	2	0	0	0	0	0.0247	0.0852	4.8029	0.0019	0.0231	4.9503
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	3	0	0	0	0	0.0499	0.1001	4.7432	0.0059	0.03	4.9318
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	4	0	0	0	0	0.0367	0.122	4.718	0.0041	0.0203	4.9117
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	5	0	0	0	0	0.0444	0.1171	4.7236	0.002	0.0255	4.9199
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	1	0	0	0.0015	0	0.0575	0.1206	4.6995	0.0039	0.0247	4.9157
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	2	0	0	0.0003	0	0.05	0.1231	4.7273	0.0059	0.0282	4.9398
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	3	0	0	0.0007	0	0.0532	0.1192	4.7267	0.0054	0.0274	4.9426
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	1	0	0	0	0.0007	0.0589	0.0827	4.7442	0.004	0.029	4.9244
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	2	0	0	0.0002	0	0.0511	0.1025	4.7251	0.0057	0.031	4.9208
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	3	0	0	0	0	0.0573	0.0887	4.7636	0.006	0.0253	4.9438
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	4	0	0	0	0	0.0511	0.1218	4.7359	0.0035	0.0277	4.9446
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	5	0.0675	0	0	0	0.139	0.1331	4.6358	0.003	0.0257	5.0189
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	1	0	0	0.0008	0	0.0555	0.094	4.7434	0.003	0.0253	4.9294
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	2	0	0	0.0013	0	0.0596	0.0831	4.7372	0.0058	0.0269	4.9244
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	3	0	0	0.0021	0	0.0401	0.1199	4.7356	0.0016	0.0304	4.9434
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_11_apati	1	0	0	0	0	0.0353	0.1131	4.7524	0.0005	0.0096	4.9118
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	1	0	0	0	0.002	0.0419	0.0608	4.7856	0.0018	0.0268	4.9197
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	3	0	0	0	0.0014	0.0456	0.0627	4.7999	0.0033	0.0178	4.9337
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	5	0	0	0	0.0036	0.0369	0.0477	4.8319	0.0016	0.0238	4.9469
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	1	0	0	0	0.0023	0.0582	0.0567	4.7779	0.0043	0.0356	4.9403
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	3	0.0649	0.0253	0	0	0	0.0038	4.8786	0.002	0.0401	5.0177
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_6_apatit	1	0.0579	0	0	0	0	0.0302	4.866	0.0067	0.0438	5.0047
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	1	0	0	0	0	0.0405	0.1054	4.7791	0	0	4.925

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+	Na+	Total
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	3	0	0	0	0	0.0482	0.1048	4.7522	0	0.0013	4.9143
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	2	0	0	0	0.0055	0.0437	0.0831	4.7974	0.0017	0.0197	4.9519
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	4	0	0	0	0.0011	0.0613	0.0486	4.8053	0.0024	0.0282	4.9482
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	2	0	0	0	0.0047	0.0578	0.0443	4.8051	0.0031	0.0383	4.9547
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_9_apatit	3	0	0	0	0	0.0622	0.0504	4.7847	0.0028	0.0537	4.9541
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	1	0	0	0	0	0.0896	0.1297	4.718	0.0035	0.0013	4.9442
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	3	0	0	0	0	0.0379	0.0833	4.7738	0.0004	0.0166	4.9138
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_6_apatit	1	0	0	0	0	0.019	0.0407	4.7961	0.0054	0.0726	4.9347
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_8_apatit	2	0	0	0	0	0.1034	0.1433	4.6943	0.0016	0.0041	4.953
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	3	0	0	0	0	0.1063	0.0562	4.6842	0.0156	0.031	4.9019
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	4	0	0	0	0	0.0893	0.0669	4.7047	0.0124	0.027	4.9063
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	2	0	0	0	0	0.1107	0.0538	4.6989	0.0167	0.0226	4.9066
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_2_apat	1	0	0	0	0	0.0222	0.0402	4.8438	0.0002	0.0109	4.9223
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	1	0	0	0	0	0.1074	0.1996	4.6098	0.0049	0.0036	4.9269
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	2	0	0	0	0	0.1035	0.1737	4.654	0.0026	0.0028	4.94
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	3	0	0	0	0	0.0542	0.1226	4.743	0.0006	0.0037	4.9259
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_2_apat	1	0.0284	0	0	0	0.0213	0.1061	4.7544	0	0.0737	4.9854
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_3_apat	5	0	0	0	0	0.0334	0.1045	4.6967	0	0.0667	4.907
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_4_apat	1	0	0	0	0	0.0565	0.1258	4.7094	0	0.0158	4.9075
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_7_apat	1	0	0	0	0	0.0715	0.1711	4.6552	0.0022	0.0024	4.9027
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	2	0	0	0	0	0.003	0.0023	4.9499	0	0.0317	4.9889
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	3	0.0009	0.0049	0	0	0	0	4.9521	0	0.0474	5.0056
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	5	0	0	0	0	0.0003	0.0056	4.9389	0	0.034	4.9828
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_1_apati	1	0	0	0	0	0.0006	0.0129	4.9181	0	0.0189	4.9524
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	8	0	0	0	0	0.0157	0.0346	4.8973	0.0009	0.017	4.9669
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	6	0	0	0	0	0	0.0084	4.9351	0.0011	0.0059	4.9534
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	7	0	0	0	0	0.0013	0.0112	4.9318	0	0.006	4.9513
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	8	0	0	0	0	0.0004	0.0141	4.9196	0.0011	0.0055	4.9416
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	9	0	0	0	0	0.0012	0.0024	4.944	0.0009	0	4.9494
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	10	0	0	0	0	0.0004	0.0054	4.9532	0.0006	0.0233	4.9844
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	11	0.0003	0.0004	0	0	0	0	4.9809	0	0.0372	5.0213
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	12	0	0	0	0	0	0.0004	4.9664	0	0.0231	4.992
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	13	0.0017	0.0017	0	0	0	0	4.965	0.0011	0.0295	5.0012
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	14	0	0.0012	0	0	0	0	4.9944	0	0.0039	4.9996
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	15	0	0	0	0	0.0012	0.0015	4.9452	0	0.0148	4.9627
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	1	0.0003	0	0.003	0	0	0	4.9794	0	0.0196	5.0119
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	2	0.0024	0.0009	0.0029	0	0	0	4.9659	0.0005	0.0222	4.9987
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	3	0.0225	0.018	0.0032	0.0024	0	0.0128	4.8884	0.0034	0.0477	4.9988
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	4	0	0.0017	0.0053	0	0	0	4.9984	0	0.0136	5.0232
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	5	0.0136	0.0138	0.0027	0	0	0.0018	4.9482	0.0017	0.019	5.0051
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	6	0.0156	0.0273	0.0033	0.0027	0	0	4.9344	0.0028	0.0441	5.0305
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	7	0.0008	0.0003	0.0035	0	0	0	5.0476	0.0001	0.036	5.0889
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	1	0	0	0.001	0	0.0061	0.023	4.9204	0	0.0224	4.9757
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	2	0.0113	0.0163	0.0027	0.0003	0	0.0044	4.9327	0.0003	0.0316	4.9996
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	3	0	0	0.0057	0	0.0059	0.0122	4.9152	0.0009	0.0124	4.9525
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	1	0	0	0	0	0.0084	0.0172	4.9332	0.0017	0.0098	4.9746
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	4	0	0	0	0	0.0016	0.016	4.9172	0.0012	0.0071	4.9465
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	1	0	0	0	0	0	0.0188	4.9146	0.0018	0.0029	4.9424
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	2	0	0	0	0	0.0009	0.0183	4.8954	0	0	4.9186

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+	Na+	Total
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	3	0	0	0	0	0	0.0127	4.9094	0.0005	0.0003	4.929
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	4	0.0014	0	0	0	0.0159	0.0294	4.9146	0	0.0293	4.9907
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	5	0.0084	0.0266	0	0	0	0	4.9709	0	0.0074	5.0193
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	6	0	0	0	0	0.0068	0.023	4.9236	0.0016	0.0102	4.9652
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	7	0	0	0	0	0.0023	0.0133	4.9272	0	0.001	4.9493
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	1	0	0	0	0	0.0391	0.5855	4.2769	0	0.0038	4.9056
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	2	0	0	0	0	0.0312	0.5834	4.3074	0.0001	0.0072	4.9353
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	1	0	0	0	0	0.0568	0.1857	4.6686	0.0001	0.0023	4.914
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	3	0	0	0	0	0.061	0.2017	4.6232	0.0001	0.019	4.9051
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	4	0.0553	0.1068	0	0	0	0.1139	4.7752	0	0.0021	5.0533
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_2_apati	1	0	0	0	0	0.0203	0.19	4.6914	0.0014	0.0037	4.9067
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_5_apati	7	0	0	0	0	0.0241	0.3343	4.5233	0.001	0.0191	4.9049
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	3	0	0	0	0	0.0567	0.2588	4.5959	0	0.0047	4.9166
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	4	0	0	0	0	0.0877	0.337	4.4695	0	0.0029	4.9001
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	1	0	0	0	0	0.0635	0.0674	4.7736	0.0054	0.0316	4.9459
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	2	0	0	0	0	0.0654	0.0525	4.7681	0.0066	0.0263	4.9295
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	3	0	0	0.0004	0	0.0666	0.0639	4.7448	0.006	0.0345	4.9308
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	4	0	0	0	0	0.0669	0.0634	4.7494	0.0063	0.0272	4.9222
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	5	0	0	0.0006	0	0.0618	0.0665	4.7497	0.0028	0.0306	4.9243
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	1	0	0	0	0	0.0402	0.0852	4.7992	0.0017	0.0282	4.9633
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	2	0	0	0.0008	0	0.0395	0.0881	4.7682	0.002	0.0237	4.9321
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	3	0	0	0.0002	0.0036	0.0038	0.0176	4.9291	0	0.0047	4.9615
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	4	0	0	0.0008	0	0.0025	0.0172	4.9129	0	0.0123	4.9479
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	5	0	0	0.0002	0	0.0143	0.022	4.9389	0.0036	0.0002	4.9887
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	1	0	0	0	0	0.0748	0.0781	4.7455	0.0083	0.0277	4.9427
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	2	0	0	0	0	0.0715	0.0748	4.7396	0.0075	0.0288	4.9364
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	3	0	0	0	0	0.0649	0.0876	4.7369	0.0041	0.0271	4.9309
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	4	0	0	0	0	0.062	0.0781	4.7387	0.0074	0.0325	4.9319
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	5	0	0	0	0	0.0695	0.0772	4.7353	0.0044	0.024	4.9237
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	1	0	0	0.0001	0	0.0701	0.1229	4.7297	0.0016	0.0301	4.969
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	2	0	0	0.0002	0	0.0724	0.1192	4.7285	0.003	0.0293	4.9628
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	3	0	0	0	0	0.0689	0.1205	4.7261	0.003	0.0297	4.9597
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	4	0	0	0.002	0	0.0639	0.1162	4.73	0.0026	0.0251	4.9495
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	1	0	0	0.0003	0	0.0468	0.0955	4.7829	0.0019	0.0085	4.941
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	2	0	0	0	0	0.0468	0.0963	4.7803	0.0015	0.0072	4.9377
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	3	0	0	0	0	0.0443	0.0927	4.779	0.0011	0.0103	4.9393
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	4	0	0	0	0	0.0447	0.0942	4.7724	0	0.0085	4.9219
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	5	0	0	0	0	0.0523	0.1064	4.7591	0.0027	0.0068	4.9305
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	1	0.011	0.0188	0.0015	0.003	0	0	5.01	0.0002	0.01	5.0581
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	2	0.0074	0.0185	0.0001	0	0	0	5.0009	0.0006	0.0082	5.0454
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	3	0	0	0	0.0036	0.0493	0.0869	4.7733	0.002	0.0286	4.9554
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	4	0.0038	0.0025	0.0004	0	0	0.0137	4.9677	0	0.0099	4.9994
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	5	0	0	0.0001	0	0.0036	0.0194	4.9315	0	0.0089	4.9653
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_10_apat	3	0	0	0.0008	0.0048	0.0154	0.1768	4.7275	0	0.0014	4.9273
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	1	0.0518	0.0497	0.0021	0	0	0.0829	4.8109	0.0045	0.0239	5.0269
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	2	0.059	0.0518	0.0023	0	0	0.0988	4.7771	0.0044	0.0322	5.0276
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	3	0.0277	0.0384	0.0027	0	0	0	4.9027	0.0057	0.0795	5.0586
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	5	0.0344	0.0257	0.0005	0	0	0.0614	4.8347	0.0028	0.0445	5.0061
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	6	0.0124	0.0352	0.0024	0.0006	0	0	4.9379	0.0035	0.0624	5.0552

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+	Na+	Total
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	1	0	0	0.0009	0	0.0077	0.0283	4.9264	0.0029	0.0207	4.9869
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	2	0	0	0.0004	0	0.0099	0.0303	4.8995	0.0019	0.0232	4.9683
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	3	0	0	0.0015	0	0.0083	0.0344	4.9191	0.0014	0.0113	4.9772
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	4	0	0	0.0019	0.0023	0.0093	0.0311	4.9136	0.0004	0.021	4.9795
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	5	0	0	0.001	0	0.0063	0.0341	4.8926	0.0006	0.0229	4.9583
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	6	0	0	0	0	0.0066	0.0308	4.9233	0.0022	0.0152	4.9781
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	7	0.0076	0.0212	0.0003	0	0	0.0043	4.939	0	0.0278	5.0006
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	8	0	0	0.0004	0	0.0089	0.0255	4.9067	0.0031	0.0246	4.9782
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	1	0	0	0	0	0.0184	0.0936	4.8415	0	0.0052	4.9626
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	2	0	0	0.0005	0	0.0169	0.082	4.839	0.0029	0.0039	4.9452
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	3	0	0	0	0.0011	0.0153	0.0809	4.8697	0.0019	0.0107	4.9804
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	4	0.0105	0.0046	0	0	0	0.0309	4.9173	0.0017	0.0299	4.9951
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	5	0	0	0	0	0.0157	0.092	4.8387	0.0025	0.0063	4.9552
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	1	0.0215	0.0568	0.0032	0	0	0	4.9057	0.0005	0.0439	5.0329
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	2	0.0281	0.0256	0.0015	0	0	0.0393	4.858	0.0043	0.0434	5.0058
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	3	0.0228	0	0.0011	0	0.0013	0.064	4.8671	0.0016	0.0362	4.9969
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	5	0.0251	0.031	0.0006	0	0	0.0316	4.8807	0.0027	0.0349	5.0076
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	1	0	0	0	0.0025	0.0165	0.1408	4.7976	0.0039	0.011	4.9752
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	2	0	0	0	0.0038	0.0169	0.1629	4.7469	0.0057	0.0101	4.9493
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	3	0	0	0.0001	0	0.0133	0.1567	4.7479	0	0.0107	4.9293
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	5	0	0	0	0	0.0094	0.1406	4.8031	0	0.0186	4.98
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	1	0	0	0.0104	0	0.0029	0.0312	4.9406	0.0012	0.001	4.9887
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	2	0	0	0.0077	0	0.0071	0.072	4.8597	0.0015	0.0026	4.9514
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	3	0.0036	0	0.0009	0.0016	0.0129	0.068	4.8829	0.0021	0.0205	4.9958
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	4	0	0	0	0.0032	0.0131	0.0376	4.9128	0.0009	0.0184	4.9879
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	5	0.0152	0.0208	0.0019	0	0	0	4.9428	0.0019	0.0295	5.012
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1	0	0	0.0001	0.0013	0.0307	0.216	4.701	0.0001	0.0145	4.9644
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2	0.0268	0.016	0.0007	0	0	0	4.9529	0.0015	0.0472	5.046
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3	0	0	0.0003	0	0.0199	0.0121	4.9317	0.0007	0.0191	4.9854
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1	0.0142	0.0383	0.0003	0.0031	0	0.0906	4.8558	0.0005	0.0075	5.0175
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2	0	0	0.0013	0	0.0247	0.1493	4.7234	0.0095	0.0073	4.9168
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3	0.0032	0.0048	0	0	0	0	4.9422	0.001	0.0423	4.9956
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4	0	0	0.0014	0	0.0189	0.1674	4.7158	0	0.0075	4.9118
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5	0.0208	0	0	0.0006	0.1004	0.0993	4.7626	0.0031	0.0148	5.0022
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2	0.0262	0.0592	0.0007	0	0	0.1017	4.827	0	0.0105	5.0252
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3	0.0278	0.0543	0	0	0	0.0038	4.9011	0.0007	0.0263	5.0209
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1	0	0	0.0001	0.0013	0.0307	0.216	4.701	0.0001	0.0145	4.9644
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2	0.0268	0.016	0.0007	0	0	0	4.9529	0.0015	0.0472	5.046
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3	0	0	0.0003	0	0.0199	0.0121	4.9317	0.0007	0.0191	4.9854
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1	0.0142	0.0383	0.0003	0.0031	0	0.0906	4.8558	0.0005	0.0075	5.0175
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2	0	0	0.0013	0	0.0247	0.1493	4.7234	0.0095	0.0073	4.9168
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3	0.0032	0.0048	0	0	0	0	4.9422	0.001	0.0423	4.9956
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4	0	0	0.0014	0	0.0189	0.1674	4.7158	0	0.0075	4.9118
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5	0.0208	0	0	0.0006	0.1004	0.0993	4.7626	0.0031	0.0148	5.0022
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2	0.0262	0.0592	0.0007	0	0	0.1017	4.827	0	0.0105	5.0252
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3	0.0278	0.0543	0	0	0	0.0038	4.9011	0.0007	0.0263	5.0209

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Group	OH-	Cl-	F-	Total
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	1	W	0.53	0.0203	0.4496	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	2		0.524	0.041	0.435	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_1_apati	3	W	0.4405	0.0107	0.5488	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_2_apati	2		0.3115	0.0023	0.6863	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_3_apati	1		0.2594	0.0069	0.7337	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_4_apati	1		0.3066	0.0209	0.6725	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	1		0.221	0.0014	0.7776	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	2		0.229	0.0051	0.766	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	3		0.2	0	0.8	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_5_apati	4		0.2117	0.0019	0.7864	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_6_apati	1		0.397	0.0293	0.5737	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_7_apati	1		0.272	0.0174	0.7107	1
MOSTMEG	G_BATÃO#1	Portugal	Iberian Massif	BATÃO	Bt granodiorite	BATÃO-G1	MOSTMEG_Ivo-GBATAO_8_apati	1		0.3609	0.0054	0.6337	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	1		0.508	0.0418	0.4502	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_5_apat	2		0.5007	0.0472	0.4521	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_6_apat	1		0.5141	0.0206	0.4653	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_8_apat	1		0.5019	0.0204	0.4777	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	2		0.4551	0.0423	0.5026	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_1_apat	3		0.3227	0.0133	0.664	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	1		0.3302	0.0196	0.6502	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	2		0.3054	0.0499	0.6447	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	3		0.3656	0.0315	0.6028	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	4		0.2918	0.0371	0.6711	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_2_apat	5		0.3386	0.0374	0.6241	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	1		0.3667	0.0291	0.6042	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	2		0.3249	0.0523	0.6228	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_3_apat	3		0.2558	0.0465	0.6977	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_4_apat	2		0.4142	0.0142	0.5716	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_5_apat	1		0.2552	0.0072	0.7376	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_7_apat	1		0.2598	0.003	0.7372	1
MOSTMEG	G_MATOS#1	Portugal	Iberian Massif	MATOS	Bt Granodiorite	MATOS-G1	MOSTMEG_Ivo-GMatos1_7_apat	2		0.3396	0.0061	0.6543	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	1		0.3978	0	0.6022	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	2		0.3432	0.0027	0.6542	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_1_apatit	3		0.3344	0.0017	0.6638	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_4_apatit	2		0.4174	0.0015	0.581	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_6_apatit	1		0.175	0.0053	0.8197	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_6_apatit	3		0.2267	0.0007	0.7726	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_7_apatit	1		0.2789	0.0007	0.7204	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_7_apatit	3		0.4197	0.0024	0.5779	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_8_apatit	1		0.3578	0.0059	0.6363	1
MOSTMEG	G_ZEB#1	Portugal	Iberian Massif	ZEB	Two-mica grano	ZEB-G1	MOSTMEG_Ivo-GZEB1_8_apatit	2		0.2826	0.0015	0.7159	1
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_2_apatit	1		0.3249	0.0017	0.6734	1
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_3_apatit	1		0.405	0	0.595	1
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_3_apatit	2		0.2389	0.001	0.7601	1
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_4_apatit	1		0.3764	0	0.6236	1
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_4_apatit	2		0.324	0.0026	0.6734	1
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_5_apatit	3		0.3496	0.001	0.6494	1
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_6_apatit	1		0.2972	0.0014	0.7014	1
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	1		0.2197	0	0.7803	1

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Group	OH-	Cl-	F-	Total	
MOSTMEG	G_ZEB#4	Portugal	Iberian Massif	ZEB	Ms-Granite	ZEB-G2	MOSTMEG_Ivo-GZEB4_7_apatit	2		0.1622		0	0.8378	1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_1_apatit	1		0.3279	0.011	0.6611		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_1_apatit	3		0.2164	0.0112	0.7724		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_1_apatit	5		0.148	0.0308	0.8211		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_2_apatit	1		0.3233		0	0.6767	1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_2_apatit	2		0.241	0.004	0.755		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_2_apatit	3		0.3396	0.0023	0.6581		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	4		0.3459	0.0035	0.6506		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	14		0.2499	0.0008	0.7492		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	15		0.2328	0.001	0.7662		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	16		0.3361	0.0001	0.6638		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_3_apatit	17		0.2805	0.0011	0.7184		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	5		0.2372	0.0013	0.7615		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	6		0.2758	0.0016	0.7227		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	7		0.2421	0.0001	0.7577		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	8		0.2261	0.0062	0.7677		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_4_apatit	9		0.3237	0.0004	0.6759		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_6_apatit	1		0.1505	0.0042	0.8453		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_6_apatit	2		0.2158	0.0035	0.7807		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_6_apatit	3		0.1244	0.0007	0.8749		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_7_apatit	5		0.3779	0.0033	0.6189		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_8_apatit	1		0.2235	0.0027	0.7738		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_8_apatit	4		0.2367	0.0066	0.7567		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_9_apatit	1		0.3167	0.0133	0.67		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_9_apatit	2		0.3492	0.0216	0.6293		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_9_apatit	3		0.3565	0.0142	0.6293		1
MOSTMEG	Gf_FURÃO#1	Portugal	Iberian Massif	ZEB-Dyke	Granitic Porphy	fZEB-PORPH	MOSTMEG_Ivo-GfFUR_9_apatit	10		0.3481	0.0068	0.6451		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	1		0.3137		0	0.6863	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	2		0.2557		0	0.7443	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	3		0.1617	0.0017	0.8366		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	4		0.4977		0	0.5023	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_1_apati	6		0.2843	0.0074	0.7083		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	1		0.2299		0	0.7701	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	3		0.4597	0.0052	0.5351		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	4		0.4309	0.0044	0.5647		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	5		0.4365	0.0065	0.557		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_3_apati	6		0.3638	0.0004	0.6358		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	2		0.3313	0.0454	0.6233		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	4		0.2156	0.0553	0.7291		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	5		0.2372	0.0506	0.7122		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	6		0.2286	0.0137	0.7577		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	7		0.2436	0.0036	0.7528		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_4_apati	8		0.2717	0.0182	0.71		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	1		0.2658	0.0523	0.6819		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	2		0.2653	0.0566	0.6781		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_5_apati	3		0.2655	0.0274	0.7071		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	2		0.1765	0.0203	0.8032		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	3		0.2362	0.0212	0.7426		1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPH	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	4		0.2786	0.0564	0.665		1

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Group	OH-	Cl-	F-	Total
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	5		0.3032	0.0406	0.6562	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_6_apati	6		0	0	1.0109	1.0109
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	5		0.2684	0.005	0.7266	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	7		0.3185	0.0011	0.6804	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_7_apati	9		0.2513	0.0008	0.7479	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	2		0.2572	0	0.7428	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	3		0.243	0.0033	0.7537	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	4		0.2968	0.0046	0.6986	1
MOSTMEG	G_MARCELIN	Portugal	Iberian Massif	ZEB-PORPI	Granitic Porphy	ZEB-PORPH	MOSTMEG_Ivo-GMARCE_8_apati	5		0.3561	0.0185	0.6254	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	1		0.3826	0	0.6174	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	2		0.4037	0.001	0.5953	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	3		0.4359	0.001	0.5631	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	4		0.3469	0	0.6531	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_10_apati	5		0.4126	0.001	0.5864	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	1		0.2196	0	0.7804	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	2		0.1272	0	0.8728	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	3		0.1818	0.0023	0.8159	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	4		0.1588	0	0.8412	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_1_apatit	5		0.2071	0.0009	0.7921	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	1		0.2477	0.0007	0.7516	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	2		0.1647	0	0.8353	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	3		0.1748	0	0.8252	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	4		0.1879	0	0.8121	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_2_apatit	5		0.2449	0	0.7551	1
MOSTMEG	G_MED#1	Portugal	Iberian Massif	MEDELIM	Ms+Tour granite	PM-G6	MOSTMEG_Ivo-GMED1_8_apatit	1		0.3128	0	0.6872	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	1		0.1119	0.0028	0.8853	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	2		0.2339	0	0.7661	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	3		0.1594	0	0.8406	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	4		0.1533	0	0.8467	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	5		0.0974	0	0.9026	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_1_apat	6		0.2401	0	0.7599	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	1		0.1602	0	0.8398	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	2		0.2264	0	0.7736	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	3		0.1652	0.0001	0.8347	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	4		0.2667	0.0026	0.7308	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	5		0.2093	0.0013	0.7894	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	6		0.2344	0.0003	0.7654	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	7		0.3486	0.0018	0.6495	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_3_apati	8		0.3127	0.0007	0.6866	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	1		0.1704	0.0013	0.8283	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	2		0.1232	0.0024	0.8744	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	3		0.1412	0.0007	0.8581	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_4_apati	4		0.1609	0.0021	0.837	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	1		0.1334	0.0017	0.8649	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	2		0.2168	0	0.7832	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	3		0.1643	0.0003	0.8354	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_6_apat	4		0.1994	0	0.8006	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	1		0.283	0.0014	0.7156	1
MOSTMEG	Gf_MONS#1A	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	2		0.1544	0.0025	0.8431	1

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Group	OH-	Cl-	F-	Total
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	3		0.2176	0.0024	0.78	1
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	4		0.175	0.0017	0.8233	1
MOSTMEG	Gf_MONS#1/	Portugal	Iberian Massif	PM-Dyke	Pegmatite Dyke	PM-Dyke	MOSTMEG_Ivo-MONS1A_8_apati	5		0.2131	0	0.7869	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	1		0.2467	0.0004	0.7529	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	2		0.2117	0.0001	0.7882	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	3		0.1646	0.0013	0.8342	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	4		0.1945	0.001	0.8045	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_1_apat	5		0.1785	0.0004	0.8211	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_2_apat	3		0.1367	0.0003	0.863	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	1		0.0625	0.0024	0.9351	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	2		0.2138	0.003	0.7832	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	3		0.2542	0.0006	0.7453	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	4		0.2191	0.0013	0.7796	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_3_apat	5		0.179	0.0021	0.8188	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	1		0.3268	0.0016	0.6717	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	2		0.3146	0.0013	0.6841	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	3		0.4522	0.0021	0.5456	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	4		0.2345	0	0.7655	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_4_apat	5		0.1611	0.0001	0.8388	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	1		0.1636	0.001	0.8354	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	2		0.1746	0.001	0.8244	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	3		0.2051	0.0001	0.7947	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	4		0.2176	0	0.7824	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	5		0.2839	0.0019	0.7143	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_5_APAT	6		0.3238	0.0006	0.6756	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	1		0.3293	0.001	0.6697	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	2		0.4397	0.0003	0.56	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	3		0.3597	0.0016	0.6388	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	4		0.3799	0.0028	0.6172	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_6_apat	5		0.4958	0.0007	0.5035	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	1		0.1813	0.0021	0.8165	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	2		0.2677	0	0.7323	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_7_apat	3		0.2121	0.0009	0.7871	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	1		0.2379	0	0.7621	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	2		0.2122	0	0.7878	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	3		0.1934	0.0001	0.8065	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	4		0.2585	0.0009	0.7407	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_8_apa	5		0.4105	0.0019	0.5876	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	1		0.1465	0.0001	0.8534	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	2		0.2654	0.0011	0.7335	1
MOSTMEG	G_SEIXO#1	Portugal	Iberian Massif	Orca-G2	Two-mica granit	Orca-G2	MOSTMEG_Ivo-GSEIXO1_9_apat	3		0.278	0.0004	0.7216	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_11_apati	1		0.2045	0.0013	0.7942	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	1		0.4559	0.0765	0.4676	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	3		0.3418	0.0362	0.6219	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	5		0.4676	0.053	0.4794	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	1		0.4202	0.0597	0.5201	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	3		0.1546	0.0013	0.8441	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_6_apatit	1		0.31	0.003	0.687	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	1		0.3926	0.0004	0.607	1

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Group	OH-	Cl-	F-	Total	
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_8_apatit	3		0.3282		0	0.6718	1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	2		0.5663	0.0158	0.4179		1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_2_apatit	4		0.4892	0.2048	0.306		1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_3_apatit	2		0.6049	0.0714	0.3238		1
MOSTMEG	G_SEG#1	Portugal	Iberian Massif	SEG-G1	Ms+Tour granite	SEG-G1	MOSTMEG_Ivo-GSEG1_9_apatit	3		0.5849	0.0285	0.3866		1
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	1		0.3063	0.002	0.6917		1
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_1_apatit	3		0.2528	0.0058	0.7414		1
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_6_apatit	1		0.1635	0.0013	0.8353		1
MOSTMEG	G_SEG#2	Portugal	Iberian Massif	SEG-G2	Bt+Ms granite	SEG-G2	MOSTMEG_Ivo-GSEG2_8_apatit	2		0.3515	0	0.6485		1
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	3		0.2847	0.0065	0.7088		1
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	4		0.4591	0.0047	0.5363		1
MOSTMEG	G_SEG#4	Portugal	Iberian Massif	SEG-G3	Two-mica granit	SEG-G3	MOSTMEG_Ivo-GSEG4_8_apatit	2		0.5239	0.0085	0.4676		1
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_2_apat	1		0.9475	0.0017	0.0508		1
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	1		0.4756	0.0006	0.5238		1
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	2		0.413	0	0.587		1
MOSTMEG	G_STEX#2A	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2A_1_apat	3		0.456	0.0017	0.5423		1
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_2_apat	1		0.2414	0.0007	0.7579		1
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_3_apat	5		0.3125	0.0014	0.6861		1
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_4_apat	1		0.2406	0	0.7594		1
MOSTMEG	G_STEX#2B	Portugal	Iberian Massif	STEX	Ms-Granite	STEX-G1	MOSTMEG_Ivo-GSTEX2B_7_apat	1		0.3208	0	0.6792		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	2		0.3459	0.0405	0.6136		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	3		0.4147	0.0023	0.583		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	5		0.1709	0.0014	0.8277		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_1_apati	1		0.2165	0.0031	0.7804		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	8		0.4573	0.0496	0.4932		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	6		0.258	0.0046	0.7374		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	7		0.297	0.0018	0.7012		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	8		0.2569	0.0029	0.7402		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	9		0.4447	0.0079	0.5475		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	10		0.1629	0.0004	0.8367		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	11		0.3112	0.0033	0.6855		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	12		0.2075	0.01	0.7825		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	13		0.235	0.0106	0.7544		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	14		0.1876	0.0016	0.8109		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_4_apati	15		0.2458	0.0008	0.7533		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	1		0.3433	0.0375	0.6192		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	2		0.3361	0.0324	0.6315		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	3		0.3402	0.1712	0.4886		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	4		0.2269	0	0.7731		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_6_apati	5		0.4552	0.043	0.5018		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	6		0.4088	0.1372	0.454		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_8_apati	7		0.1643	0.0001	0.8356		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	1		0.4249	0.0375	0.5376		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	2		0.4358	0.0755	0.4887		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_9_apati	3		0.4137	0.1002	0.4861		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	1		0.4917	0.0288	0.4796		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_10_apat	4		0.5545	0.0273	0.4182		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	1		0.6245	0.0035	0.372		1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	2		0.7553	0.0024	0.2424		1

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Group	OH-	Cl-	F-	Total
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	3		0.7846	0.0039	0.2115	1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	4		0.539	0.039	0.422	1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	5		0.5129	0.1922	0.2949	1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	6		0.5066	0.1372	0.3562	1
MOSTMEG	G_ARG#1	Portugal	Iberian Massif	ARG	Li-Sn RMG	ARG-G1	MOSTMEG_Ivo-G_ARG1_2_apati	7		0.5544	0.0167	0.4289	1
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	1		0.4772	0.0022	0.5206	1
MOSTMEG	Gf_SEG#3A	Portugal	Iberian Massif	SEG-Dyke	Pegmatite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3A_8_apat	2		0.4116	0.0018	0.5867	1
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	1		0.2349	0	0.7651	1
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	3		0.2141	0	0.7859	1
MOSTMEG	Gf_SEG#3C	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG3C_8_apat	4		0.22	0.0006	0.7795	1
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_2_apati	1		0.2414	0	0.7586	1
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_5_apati	7		0.2015	0.0003	0.7983	1
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	3		0.3787	0.0003	0.621	1
MOSTMEG	Gf_SEG#5	Portugal	Iberian Massif	SEG-Dyke	Aplite Dyke	SEG-Dyke	MOSTMEG_Ivo-GfSEG5_6_apati	4		0.3661	0.001	0.6329	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	1		0.2081	0.0016	0.7903	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	2		0.2545	0.0009	0.7447	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	3		0.1313	0.0007	0.868	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	4		0.1048	0.0004	0.8948	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_1_apati	5		0.1384	0.0014	0.8602	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	1		0.3177	0.0007	0.6816	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	2		0.1671	0.0001	0.8328	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	3		0.1711	0.0023	0.8267	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	4		0.1712	0.0001	0.8286	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_2_apati	5		0.0407	0.0013	0.958	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	1		0.1626	0.002	0.8354	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	2		0.2217	0.0033	0.775	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	3		0.2006	0.0011	0.7983	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	4		0.2295	0	0.7705	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_3_apati	5		0.2637	0.0016	0.7347	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	1		0.1443	0.002	0.8537	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	2		0.2615	0.0009	0.7376	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	3		0.1888	0.003	0.8082	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_4_apati	4		0.1687	0.0026	0.8287	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	1		0.3547	0.0001	0.6452	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	2		0.3968	0	0.6032	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	3		0.3342	0	0.6658	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	4		0.2824	0.0003	0.7173	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_5_apati	5		0.3052	0	0.6948	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	1		0.0553	0	0.9447	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	2		0.1919	0.0006	0.8076	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	3		0.22	0.0014	0.7785	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	4		0.0405	0.0006	0.9589	1
MOSTMEG	SCB2#11	Portugal	Iberian Massif	PAN-G1	Two-mica granit	PAN-G1	MOSTMEG_Ivo-SCB211_6_apati	5		0.3226	0	0.6774	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_10_apat	3		0.1387	0.0004	0.8609	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	1		0.1674	0.05	0.7827	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	2		0.1828	0.0694	0.7478	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	3		0.3046	0.011	0.6843	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	5		0.338	0.0271	0.6349	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_1_apati	6		0.2699	0.0177	0.7124	1

Reference	Sample	Country	Location1	id	id2	id3	Group	Point	Group	OH-	Cl-	F-	Total
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	1		0.2964	0.009	0.6945	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	2		0.2331	0.0055	0.7614	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	3		0.2721	0.0079	0.72	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	4		0.1849	0.0102	0.805	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	5		0.2392	0.0103	0.7505	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	6		0.2827	0.0051	0.7122	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	7		0.3185	0.0054	0.6761	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_2_apati	8		0.3616	0.0095	0.629	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	1		0.2834	0.0372	0.6794	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	2		0.1545	0.0277	0.8178	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	3		0.2767	0.0292	0.6941	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	4		0.1884	0.0123	0.7993	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_3_apat	5		0.203	0.0253	0.7717	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	1		0.2902	0.0245	0.6852	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	2		0.1839	0.0257	0.7904	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	3		0.156	0.0279	0.8161	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_4_apat	5		0.2693	0.0244	0.7063	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	1		0.1205	0.0303	0.8492	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	2		0.2495	0.0233	0.7272	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	3		0.2694	0.0145	0.7161	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_5_apati	5		0.1215	0.0123	0.8662	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	1		0.2137	0.0047	0.7816	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	2		0.18	0.0153	0.8046	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	3		0.2321	0.0252	0.7427	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	4		0.2212	0.0161	0.7628	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_6_apat	5		0.1929	0.0067	0.8005	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1		0.2685	0	0.7315	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2		0.1975	0	0.8025	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3		0.2877	0	0.7123	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1		0.4217	0.0135	0.5648	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2		0.3904	0.0153	0.5943	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3		0.3493	0	0.6507	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4		0.2161	0.0208	0.7631	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5		0.1815	0.0108	0.8077	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2		0.1245	0.0207	0.8548	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3		0.1615	0.0094	0.8291	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	1		0.2685	0	0.7315	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	2		0.1975	0	0.8025	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_7_apati	3		0.2877	0	0.7123	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	1		0.4217	0.0135	0.5648	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	2		0.3904	0.0153	0.5943	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	3		0.3493	0	0.6507	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	4		0.2161	0.0208	0.7631	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_8_apati	5		0.1815	0.0108	0.8077	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	2		0.1245	0.0207	0.8548	1
MOSTMEG	SCB2#15	Portugal	Iberian Massif	PAN-G2	Ms-granite	PAN-G2	MOSTMEG_Ivo-SCB215_9_apati	3		0.1615	0.0094	0.8291	1