

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	2	42.406	0.074	0	0.017	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	2	42.579	0	0	0.03	0	0	0	0.07
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	2	42.874	0.057	0.008	0.005	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	2	42.075	0	0.043	0.04	0.2177	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	2	42.673	0.147	0.426	0.053	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	2	42.605	0.183	0.268	0.154	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	2	42.705	0.014	0.069	0.059	0	0	0	0.007
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	2	42.972	0	0.066	0.024	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	2	42.423	0.215	0.356	0.209	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	2	42.861	0.068	0.378	0.104	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	2	42.81	0.028	0.399	0.067	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	2	43.138	0.037	0.02	0.022	0	0	0	0.002
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	2	43.011	0	0.073	0	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	2	41.375	0.045	0.158	0.04	0.3334	0.0211	0	0.73
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	2	42.918	0.032	0.332	0.01	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	2	42.22	0.16	0	0.029	0.2239	0	0	0.068
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	2	42.729	0.069	0	0	0	0	0	0.587
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	2	43.106	0.029	0.177	0.006	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	2	43.174	0	0.031	0	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	2	41.026	0.019	0	0	0.3245	0.0312	0	0.272
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	2	42.406	0.074	0	0.017	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	2	42.579	0	0	0.03	0	0	0	0.07
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	2	42.874	0.057	0.008	0.005	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	2	42.075	0	0.043	0.04	0.2177	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	2	42.673	0.147	0.426	0.053	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	2	42.605	0.183	0.268	0.154	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	2	42.705	0.014	0.069	0.059	0	0	0	0.007
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	2	42.972	0	0.066	0.024	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	2	42.423	0.215	0.356	0.209	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	2	42.861	0.068	0.378	0.104	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	2	42.81	0.028	0.399	0.067	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	2	43.138	0.037	0.02	0.022	0	0	0	0.002
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	2	43.011	0	0.073	0	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	2	41.375	0.045	0.158	0.04	0.3334	0.0211	0	0.73
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	2	42.918	0.032	0.332	0.01	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	2	42.22	0.16	0	0.029	0.2239	0	0	0.068
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	2	42.729	0.069	0	0	0	0	0	0.587
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	2	43.106	0.029	0.177	0.006	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	2	43.174	0	0.031	0	0	0	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	2	41.026	0.019	0	0	0.3245	0.0312	0	0.272
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	2	43.121	0	0.174	0	0	0	0	0.33
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	2	42.375	0	0	0	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	2	42.574	0.039	0	0.006	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	2	42.629	0.06	0	0.089	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	2	43.407	0.032	0.086	0	0	0	0	0.395
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	2	43.287	0.072	0.019	0	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	2	43.329	0.02	0	0	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	2	42.751	0.087	0.362	0.024	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	2	42.19	0	0.076	0	0	0	0	0

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	2	43.088	0.03	0.258	0.006	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	2	42.83	0.001	0.049	0	0	0	0	0.146
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	2	42.524	0.137	0.121	0.001	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	2	43.281	0	0.087	0.067	0	0	0	0.008
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	2	42.866	0.069	0.014	0	0	0	0	0.204
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	2	41.381	0.24	0.737	0.235	0.6957	0.1958	0	0.022
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	2	41.147	0.378	0.685	0.211	0.6901	0.1291	0	0.062
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	2	42.804	0.101	0.098	0.116	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	2	42.632	0.139	0.349	0.165	0	0	0	0.049
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	2	43.168	0	0.377	0.055	0	0	0	0.63
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	2	43.121	0	0.174	0	0	0	0	0.33
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	2	42.375	0	0	0	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	2	42.574	0.039	0	0.006	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	2	42.629	0.06	0	0.089	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	2	43.407	0.032	0.086	0	0	0	0	0.395
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	2	43.287	0.072	0.019	0	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	2	43.329	0.02	0	0	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	2	42.751	0.087	0.362	0.024	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	2	42.19	0	0.076	0	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	2	43.088	0.03	0.258	0.006	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	2	42.83	0.001	0.049	0	0	0	0	0.146
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	2	42.524	0.137	0.121	0.001	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	2	43.281	0	0.087	0.067	0	0	0	0.008
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	2	42.866	0.069	0.014	0	0	0	0	0.204
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	2	41.381	0.24	0.737	0.235	0.6957	0.1958	0	0.022
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	2	41.147	0.378	0.685	0.211	0.6901	0.1291	0	0.062
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	2	42.804	0.101	0.098	0.116	0	0	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	2	42.632	0.139	0.349	0.165	0	0	0	0.049
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	2	43.168	0	0.377	0.055	0	0	0	0.63
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	2	43.688	0	0	0.039	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	2	42.942	0.083	0.271	0.068	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	2	43.714	0.027	0.058	0.01	0	0	0	0.066
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	2	43.192	0.015	0	0.064	0	0	0	0.059
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	2	43.051	0.062	0	0.035	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	2	42.982	0	0.123	0	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	2	43.091	0.104	0.251	0.004	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	2	43.211	0.048	0.22	0.045	0	0	0	0.051
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	2	43.073	0.074	0.001	0	0	0	0	0.34
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	2	43.366	0	0	0.035	0	0	0	0.484
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	2	42.958	0	0.02	0	0	0	0	0.045
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	2	42.979	0.032	0.359	0.039	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	2	42.483	0.127	0.288	0.12	0	0	0	0.011
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	2	41.54	0.012	0	0.067	1.5381	0.0723	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	2	43.157	0.004	0.084	0.106	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	2	42.93	0.035	0.406	0.19	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	2	43.411	0	0.286	0.05	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	2	43.593	0.007	0.026	0.043	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	2	42.07	0	0	0.003	0	0	0	0.125
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	2	42.839	0.207	0.218	0.196	0	0	0	0

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	2	42.706	0.21	0.507	0.113	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	2	43.688	0	0	0.039	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	2	42.942	0.083	0.271	0.068	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	2	43.714	0.027	0.058	0.01	0	0	0	0.066
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	2	43.192	0.015	0	0.064	0	0	0	0.059
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	2	43.051	0.062	0	0.035	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	2	42.982	0	0.123	0	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	2	43.091	0.104	0.251	0.004	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	2	43.211	0.048	0.22	0.045	0	0	0	0.051
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	2	43.073	0.074	0.001	0	0	0	0	0.34
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	2	43.366	0	0	0.035	0	0	0	0.484
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	2	42.958	0	0.02	0	0	0	0	0.045
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	2	42.979	0.032	0.359	0.039	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	2	42.483	0.127	0.288	0.12	0	0	0	0.011
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	2	41.54	0.012	0	0.067	1.5381	0.0723	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	2	43.157	0.004	0.084	0.106	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	2	42.93	0.035	0.406	0.19	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	2	43.411	0	0.286	0.05	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	2	43.593	0.007	0.026	0.043	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	2	42.07	0	0	0.003	0	0	0	0.125
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	2	42.839	0.207	0.218	0.196	0	0	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	2	42.706	0.21	0.507	0.113	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	2	42.312	0.105	0.211	0	0	0	0	0.295
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	2	42.926	0	0	0	0	0	0	0.337
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	2	42.816	0.048	0.132	0	0	0	0	0.509
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	2	42.809	0	0.324	0.021	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	2	42.619	0	0.075	0	0	0	0	0.094
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	2	42.597	0.238	0.313	0.096	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	2	42.892	0	0	0.127	0	0	0	0.088
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	2	42.865	0.039	0.083	0.028	0	0	0	0.1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	2	42.927	0	0	0.031	0	0	0	0.042
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	2	42.252	0.227	0.145	0.061	0	0	0	0.08
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	2	42.41	0.065	0.027	0.062	0	0	0	0.003
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	2	42.527	0	0.013	0	0	0	0	0.203
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	2	42.743	0.016	0	0	0	0	0	0.016
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	2	42.882	0.029	0.022	0.029	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	2	41.255	0.114	0.335	0.041	0.6646	0.0634	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	2	42.619	0	0.042	0	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	2	42.931	0	0.169	0	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	2	41.525	0.155	0.044	0.027	0	0	0	0.208
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	2	42.368	0.073	0	0.021	0	0	0	0.134
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	2	42.448	0.063	0	0	0	0	0	0.025
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	2	42.218	0.024	0.065	0	0	0	0	0.103
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	2	42.104	0.142	0.279	0.109	0	0	0	0.107
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	2	42.312	0.105	0.211	0	0	0	0	0.295
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	2	42.926	0	0	0	0	0	0	0.337
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	2	42.816	0.048	0.132	0	0	0	0	0.509
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	2	42.809	0	0.324	0.021	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	2	42.619	0	0.075	0	0	0	0	0.094

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	2	42.597	0.238	0.313	0.096	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	2	42.892	0	0	0.127	0	0	0	0.088
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	2	42.865	0.039	0.083	0.028	0	0	0	0.1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	2	42.927	0	0	0.031	0	0	0	0.042
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	2	42.252	0.227	0.145	0.061	0	0	0	0.08
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	2	42.41	0.065	0.027	0.062	0	0	0	0.003
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	2	42.527	0	0.013	0	0	0	0	0.203
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	2	42.743	0.016	0	0	0	0	0	0.016
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	2	42.882	0.029	0.022	0.029	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	2	41.255	0.114	0.335	0.041	0.6646	0.0634	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	2	42.619	0	0.042	0	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	2	42.931	0	0.169	0	0	0	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	2	41.525	0.155	0.044	0.027	0	0	0	0.208
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	2	42.368	0.073	0	0.021	0	0	0	0.134
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	2	42.448	0.063	0	0	0	0	0	0.025
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	2	42.218	0.024	0.065	0	0	0	0	0.103
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	2	42.104	0.142	0.279	0.109	0	0	0	0.107
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	2	2	42.312	0.062	0.223	0	0	0	0	0.029
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	2	42.911	0	0.086	0	0	0	0	0.514
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	2	43.03	0.051	0.024	0	0	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	2	42.986	0	0	0	0	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	2	42.342	0.147	0.627	0.079	0	0	0	0.06
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	2	42.346	0.162	0.068	0.032	0	0	0	0.024
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	2	42.07	0.084	0.215	0.124	0	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	2	42.758	0	0	0.006	0	0	0	0.011
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	2	42.453	0	0	0	0.0305	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	2	41.343	0.012	0.244	0.008	0.5835	0.0045	0	0.021
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	2	41.405	0.041	0.034	0	0.6101	0.0857	0	0.146
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	2	42.437	0	0	0.031	0	0	0	0.013
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	2	41.739	0.194	0.43	0.106	0	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	2	42.98	0	0.08	0.039	0	0	0	0.171
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	2	42.911	0	0.086	0	0	0	0	0.514
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	2	43.03	0.051	0.024	0	0	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	2	42.986	0	0	0	0	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	2	42.342	0.147	0.627	0.079	0	0	0	0.06
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	2	42.346	0.162	0.068	0.032	0	0	0	0.024
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	2	42.07	0.084	0.215	0.124	0	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	2	42.758	0	0	0.006	0	0	0	0.011
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	2	42.453	0	0	0	0.0305	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	2	41.343	0.012	0.244	0.008	0.5835	0.0045	0	0.021
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	2	41.405	0.041	0.034	0	0.6101	0.0857	0	0.146
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	2	42.437	0	0	0.031	0	0	0	0.013
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	2	41.739	0.194	0.43	0.106	0	0	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	2	42.98	0	0.08	0.039	0	0	0	0.171
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	2	42.683	0	0	0.039	0.0341	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	2	41.736	0	0	0	0.2289	0	0	0.551
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	2	42.942	0.101	0.254	0.103	0	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	2	43.197	0.032	0.061	0.012	0	0	0	0.292
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	2	42.837	0.093	0.35	0	0	0	0	0.03

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	2	42.382	0.052	0.05	0.077	0	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	2	42.84	0.026	0.161	0.029	0	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	2	42.948	0.049	0.31	0.026	0	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	2	42.683	0	0	0.039	0.0341	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	2	41.736	0	0	0	0.2289	0	0	0.551
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	2	42.942	0.101	0.254	0.103	0	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	2	43.197	0.032	0.061	0.012	0	0	0	0.292
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	2	42.837	0.093	0.35	0	0	0	0	0.03
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	2	42.382	0.052	0.05	0.077	0	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	2	42.84	0.026	0.161	0.029	0	0	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	2	42.948	0.049	0.31	0.026	0	0	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	2	42.11	0.039	0.122	0	1.7493	0.0289	0	0.27
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	2	42.186	0.081	0.143	0	0.0232	0	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	2	42.018	0	0.084	0.031	0.297	0	0	0.026
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	2	41.819	0	0.31	0.077	0.0144	0.0556	0	0.204
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	2	42.003	0.054	0.132	0.07	0	0	0	0.248
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	2	41.481	0.058	0.243	0.041	0.0111	0.0657	0	0.088
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	2	41.882	0.102	0.191	0.086	0.0411	0.0612	0	0.105
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	2	42.562	0.044	0	0.003	0	0	0	0.03
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	2	42.658	0	0	0	0	0	0	0.001
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	2	42.067	0.182	0.335	0.097	0	0	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	2	42.562	0.044	0	0.003	0	0	0	0.03
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	2	42.658	0	0	0	0	0	0	0.001
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	2	42.067	0.182	0.335	0.097	0	0	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	2	42.755	0.022	0	0	0	0	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	2	42.11	0.039	0.122	0	1.7493	0.0289	0	0.27
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	2	42.186	0.081	0.143	0	0.0232	0	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	2	42.018	0	0.084	0.031	0.297	0	0	0.026
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	2	41.819	0	0.31	0.077	0.0144	0.0556	0	0.204
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	2	42.003	0.054	0.132	0.07	0	0	0	0.248
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	2	41.481	0.058	0.243	0.041	0.0111	0.0657	0	0.088
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	2	41.882	0.102	0.191	0.086	0.0411	0.0612	0	0.105
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	2	42.562	0.044	0	0.003	0	0	0	0.03
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	2	42.658	0	0	0	0	0	0	0.001
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	2	42.067	0.182	0.335	0.097	0	0	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	2	42.562	0.044	0	0.003	0	0	0	0.03
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	2	42.658	0	0	0	0	0	0	0.001
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	2	42.067	0.182	0.335	0.097	0	0	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	2	42.755	0.022	0	0	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	2	43.105	0	0.114	0	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	2	43.013	0.046	0.202	0.106	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	2	43.098	0	0.158	0.036	0	0	0	0.132
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	2	43.185	0	0.104	0.061	0	0	0	0.1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	2	42.981	0.082	0.216	0.028	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	2	42.864	0.027	0.456	0.101	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	2	41.73	0.034	0	0	0.409	0.0712	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	2	42.436	0.12	0.101	0.068	0.2978	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	2	42.637	0.101	0.227	0.082	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	2	42.305	0.165	0.546	0.2	0	0	0	0.088

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	2	42.108	0.159	0.443	0.204	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	2	43.105	0	0.114	0	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	2	43.013	0.046	0.202	0.106	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	2	43.098	0	0.158	0.036	0	0	0	0.132
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	2	43.185	0	0.104	0.061	0	0	0	0.1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	2	42.981	0.082	0.216	0.028	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	2	42.864	0.027	0.456	0.101	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	2	41.73	0.034	0	0	0.409	0.0712	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	2	42.436	0.12	0.101	0.068	0.2978	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	2	42.637	0.101	0.227	0.082	0	0	0	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	2	42.305	0.165	0.546	0.2	0	0	0	0.088
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	2	42.108	0.159	0.443	0.204	0	0	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	2	42.742	0	0	0.052	0	0	0	0.169
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	2	42.672	0.071	0	0	0	0	0	0.262
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	2	42.875	0	0.11	0.005	0	0	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	2	41.67	0.026	0	0	0	0	0	0.244
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	2	42.736	0.047	0	0.003	0	0	0	0.395
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	2	42.513	0.362	0.627	0.223	0	0	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	2	42.366	0	0.204	0.065	0	0	0	0.122
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	2	43.064	0	0.001	0.005	0	0	0	0.516
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	2	42.811	0.01	0.002	0	0	0	0	0.262
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	2	42.935	0	0.066	0	0	0	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	2	42.824	0	0.019	0	0	0	0	0.371
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	2	42.703	0.083	0.185	0.006	0	0	0	0.049
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	2	42.902	0.132	0.186	0.081	0	0	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	2	42.742	0	0	0.052	0	0	0	0.169
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	2	42.672	0.071	0	0	0	0	0	0.262
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	2	42.875	0	0.11	0.005	0	0	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	2	41.67	0.026	0	0	0	0	0	0.244
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	2	42.736	0.047	0	0.003	0	0	0	0.395
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	2	42.513	0.362	0.627	0.223	0	0	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	2	42.366	0	0.204	0.065	0	0	0	0.122
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	2	43.064	0	0.001	0.005	0	0	0	0.516
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	2	42.811	0.01	0.002	0	0	0	0	0.262
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	2	42.935	0	0.066	0	0	0	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	2	42.824	0	0.019	0	0	0	0	0.371
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	2	42.703	0.083	0.185	0.006	0	0	0	0.049
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	2	42.902	0.132	0.186	0.081	0	0	0	0
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	2	41.773	0	0	0	0.3478	0	0	0.076
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	2	41.773	0	0	0	0.3478	0	0	0.076
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	2	43.122	0.034	0	0.064	0	0	0	0.174
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	2	42.554	0.014	0.045	0.061	0	0	0	0.015
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	2	42.345	0.039	0.089	0.089	0	0	0	0
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	2	43.077	0.033	0.111	0.023	0	0	0	0
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	2	43.279	0.067	0	0	0	0	0	0
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	2	43.122	0.034	0	0.064	0	0	0	0.174
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	2	42.554	0.014	0.045	0.061	0	0	0	0.015
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	2	42.345	0.039	0.089	0.089	0	0	0	0
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	2	43.077	0.033	0.111	0.023	0	0	0	0

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO	
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	2	43.279	0.067	0	0	0	0	0	0	
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	2	43.166	0.005	0.12	0	0	0	0	0.138	
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	2	42.593	0	0	0	0	0	0	0	
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	2	43.166	0.005	0.12	0	0	0	0	0	0.138
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	2	42.593	0	0	0	0	0	0	0	0
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	2	43.555	0.057	0.232	0.021	0	0	0	0	0
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	2	43.555	0.057	0.232	0.021	0	0	0	0	0
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	2	41.887	0	0	0	0.3567	0.0334	0	0	0.193
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	2	42.412	0	0.052	0	0	0	0	0	0.295
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	2	41.799	0	0	0.003	0.1766	0	0	0	0.456
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	2	42.641	0	0	0.027	0	0	0	0	0.082
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	2	41.887	0	0	0	0.3567	0.0334	0	0	0.193
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	2	42.412	0	0.052	0	0	0	0	0	0.295
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	2	41.799	0	0	0.003	0.1766	0	0	0	0.456
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	2	42.641	0	0	0.027	0	0	0	0	0.082
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	2	42.944	0.038	0.122	0	0	0	0	0	0.373
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	2	42.904	0.05	0.058	0.056	0	0	0	0	0.43
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	2	41.784	0.073	0	0	0	0	0	0	0.265
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	2	42.688	0.133	0.084	0	0	0	0	0	0.233
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	2	41.652	0.197	0.282	0.091	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	2	41.778	0.12	0.224	0.045	0.1445	0.099	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	2	41.863	0.054	0.01	0	0.4323	0.0312	0	0	0.349
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	2	42.193	0	0	0.001	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	2	42.696	0	0	0.002	0	0	0	0	0.405
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	2	42.469	0.016	0.204	0.007	0	0	0	0	0.271
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	2	42.926	0	0.112	0.038	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	2	42.815	0	0	0.077	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	2	42.547	0.019	0	0.033	0	0	0	0	0.046
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	2	42.681	0.017	0.018	0	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	2	42.212	0.062	0.176	0	0	0	0	0	0.113
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	2	42.169	0.002	0.212	0.005	0.2734	0.0768	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	2	42.295	0.021	0	0.037	0.0471	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	2	42.672	0.031	0.185	0.046	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	2	42.176	0.047	0.095	0.05	0.224	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	2	43.15	0.011	0.01	0	0	0	0	0	0.474
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	2	42.958	0.039	0.056	0.014	0	0	0	0	0.327
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	2	43.139	0	0	0	0	0	0	0	0.382
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	2	42.746	0	0.055	0	0	0	0	0	0.35
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	2	42.967	0.011	0.064	0.016	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	2	42.912	0	0	0	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	2	42.386	0.041	0.038	0	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	2	42.944	0.038	0.122	0	0	0	0	0	0.373
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	2	42.904	0.05	0.058	0.056	0	0	0	0	0.43
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	2	41.784	0.073	0	0	0	0	0	0	0.265
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	2	42.688	0.133	0.084	0	0	0	0	0	0.233
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	2	41.652	0.197	0.282	0.091	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	2	41.778	0.12	0.224	0.045	0.1445	0.099	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	2	41.863	0.054	0.01	0	0.4323	0.0312	0	0	0.349
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	2	42.193	0	0	0.001	0	0	0	0	0

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Tol	P2O5	Nd2O3	Ce2O3	La2O3	Fe2O3	Mn2O3	Al2O3	SrO
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	2	42.696	0	0	0.002	0	0	0	0.405
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	2	42.469	0.016	0.204	0.007	0	0	0	0.271
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	2	42.926	0	0.112	0.038	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	2	42.815	0	0	0.077	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	2	42.547	0.019	0	0.033	0	0	0	0.046
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	2	42.681	0.017	0.018	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	2	42.212	0.062	0.176	0	0	0	0	0.113
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	2	42.169	0.002	0.212	0.005	0.2734	0.0768	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	2	42.295	0.021	0	0.037	0.0471	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	2	42.672	0.031	0.185	0.046	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	2	42.176	0.047	0.095	0.05	0.224	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	2	43.15	0.011	0.01	0	0	0	0	0.474
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	2	42.958	0.039	0.056	0.014	0	0	0	0.327
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	2	43.139	0	0	0	0	0	0	0.382
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	2	42.746	0	0.055	0	0	0	0	0.35
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	2	42.967	0.011	0.064	0.016	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	2	42.912	0	0	0	0	0	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	2	42.386	0.041	0.038	0	0	0	0	0

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	FeO	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	0.215	0.039	54.316	0.001	0.039	0.032	2.143	0.7538	100.0358
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	0.259	0	54.865	0	0.036	0.012	2.499	0.6016	100.9516
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	0.176	0.183	54.367	0.007	0.132	0.009	2.443	0.6321	100.8931
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	0.2791	0.058	54.889	0.11	0.024	0	2.293	0.6953	100.7241
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	0.368	0.124	54.113	0.052	0.081	0.096	2.54	0.5608	101.2338
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	0.356	0.156	53.644	0.067	0.11	0.199	2.528	0.5333	100.8033
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	0.383	0.072	54.224	0.131	0.035	0.016	2.873	0.4229	101.0109
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	0.162	0	55.095	0.011	0.009	0	2.824	0.4624	101.6254
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	0.34	0.045	53.785	0.012	0.116	0.013	2.38	0.6468	100.5408
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	0.167	0.106	54.782	0	0.052	0	2.394	0.6638	101.5758
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	0.19	0.059	54.937	0.013	0.071	0.014	2.118	0.7917	101.4977
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	0.225	0.002	55.786	0.018	0.017	0.011	2.523	0.6162	102.4172
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	0.214	0.033	55.894	0.013	0.028	0	2.675	0.5453	102.4863
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	0	0	54.017	0.048	0.033	0	2.885	0.3892	100.0748
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	0.39	0.1	54.317	0.22	0.028	0.03	2.534	0.59	101.501
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	1.0885	0.001	53.591	0.466	0.131	0.038	2.246	0.7113	100.9738
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	0.148	0.007	54.438	0.006	0.064	0	2.364	0.6703	101.0823
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	0.172	0	55.181	0	0.02	0.008	2.718	0.5159	101.9329
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	0.292	0.268	54.727	0.029	0.021	0.022	2.931	0.4105	101.9055
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	0	0	54.769	0.015	0.048	0.005	2.214	0.7019	99.4255
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	0.215	0.039	54.316	0.001	0.039	0.032	2.143	0.7538	100.0358
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	0.259	0	54.865	0	0.036	0.012	2.499	0.6016	100.9516
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	0.176	0.183	54.367	0.007	0.132	0.009	2.443	0.6321	100.8931
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	0.2791	0.058	54.889	0.11	0.024	0	2.293	0.6953	100.7241
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	0.368	0.124	54.113	0.052	0.081	0.096	2.54	0.5608	101.2338
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	0.356	0.156	53.644	0.067	0.11	0.199	2.528	0.5333	100.8033
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	0.383	0.072	54.224	0.131	0.035	0.016	2.873	0.4229	101.0109
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	0.162	0	55.095	0.011	0.009	0	2.824	0.4624	101.6254
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	0.34	0.045	53.785	0.012	0.116	0.013	2.38	0.6468	100.5408
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	0.167	0.106	54.782	0	0.052	0	2.394	0.6638	101.5758
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	0.19	0.059	54.937	0.013	0.071	0.014	2.118	0.7917	101.4977
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	0.225	0.002	55.786	0.018	0.017	0.011	2.523	0.6162	102.4172
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	0.214	0.033	55.894	0.013	0.028	0	2.675	0.5453	102.4863
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	0	0	54.017	0.048	0.033	0	2.885	0.3892	100.0748
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	0.39	0.1	54.317	0.22	0.028	0.03	2.534	0.59	101.501
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	1.0885	0.001	53.591	0.466	0.131	0.038	2.246	0.7113	100.9738
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	0.148	0.007	54.438	0.006	0.064	0	2.364	0.6703	101.0823
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	0.172	0	55.181	0	0.02	0.008	2.718	0.5159	101.9329
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	0.292	0.268	54.727	0.029	0.021	0.022	2.931	0.4105	101.9055
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	0	0	54.769	0.015	0.048	0.005	2.214	0.7019	99.4255
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	0.185	0.006	54.919	0.021	0.012	0.027	2.944	0.4035	102.1425
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	0.164	0.072	55.131	0.005	0.017	0.01	3.079	0.3244	101.1774
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	0.187	0.065	55.237	0.009	0.038	0.023	2.918	0.4046	101.5006
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	0.223	0.068	55.301	0.004	0.059	0.001	3.022	0.3643	101.8203
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	0.165	0.051	55.324	0.022	0.041	0.007	2.396	0.6815	102.6075
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	0.139	0.196	54.69	0.024	0.101	0.151	2.319	0.6693	101.6673
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	0.2	0.15	54.775	0.012	0.059	0.142	2.343	0.6613	101.6913
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	0.122	0.047	54.887	0.008	0.054	0	2.718	0.5074	101.5674
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	1.457	0.135	52.601	0.106	0.376	0.035	2.115	0.758	99.849

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	FeO	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	1.253	0.2	53.385	0.192	0.077	0.556	2.319	0.5598	101.9238
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	0.315	0.028	55.015	0.072	0.042	0.008	2.59	0.5707	101.6667
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	0.545	0.108	54.365	0.101	0.046	0.123	2.383	0.6275	101.0815
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	0.192	0.022	55.795	0	0.018	0.015	2.76	0.5066	102.7516
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	0.275	0.017	54.916	0	0	0.019	2.903	0.4174	101.7004
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	0	0	54.045	0.103	0.144	0.013	2.305	0.6725	100.789
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	0	0	54.133	0.118	0.157	0.009	2.507	0.573	100.7992
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	0.674	0.074	54.171	0.112	0.088	0.009	2.365	0.6716	101.2836
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	0.703	0.118	54.072	0.085	0.078	0	2.516	0.5994	101.5054
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	0.325	0.082	54.199	0.024	0.092	0.004	3.08	0.3437	102.3797
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	0.185	0.006	54.919	0.021	0.012	0.027	2.944	0.4035	102.1425
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	0.164	0.072	55.131	0.005	0.017	0.01	3.079	0.3244	101.1774
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	0.187	0.065	55.237	0.009	0.038	0.023	2.918	0.4046	101.5006
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	0.223	0.068	55.301	0.004	0.059	0.001	3.022	0.3643	101.8203
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	0.165	0.051	55.324	0.022	0.041	0.007	2.396	0.6815	102.6075
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	0.139	0.196	54.69	0.024	0.101	0.151	2.319	0.6693	101.6673
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	0.2	0.15	54.775	0.012	0.059	0.142	2.343	0.6613	101.6913
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	0.122	0.047	54.887	0.008	0.054	0	2.718	0.5074	101.5674
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	1.457	0.135	52.601	0.106	0.376	0.035	2.115	0.758	99.849
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	1.253	0.2	53.385	0.192	0.077	0.556	2.319	0.5598	101.9238
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	0.315	0.028	55.015	0.072	0.042	0.008	2.59	0.5707	101.6667
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	0.545	0.108	54.365	0.101	0.046	0.123	2.383	0.6275	101.0815
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	0.192	0.022	55.795	0	0.018	0.015	2.76	0.5066	102.7516
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	0.275	0.017	54.916	0	0	0.019	2.903	0.4174	101.7004
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	0	0	54.045	0.103	0.144	0.013	2.305	0.6725	100.789
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	0	0	54.133	0.118	0.157	0.009	2.507	0.573	100.7992
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	0.674	0.074	54.171	0.112	0.088	0.009	2.365	0.6716	101.2836
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	0.703	0.118	54.072	0.085	0.078	0	2.516	0.5994	101.5054
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	0.325	0.082	54.199	0.024	0.092	0.004	3.08	0.3437	102.3797
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	0.166	0.024	55.876	0.003	0.022	0.003	3.138	0.3409	103.2999
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	0.489	0.048	53.994	0.11	0.107	0	3.199	0.2785	101.5895
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	0.219	0.033	55.681	0	0	0	2.569	0.6107	102.9877
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	0.299	0.018	54.764	0.025	0.04	0	2.65	0.5487	101.6747
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	0.254	0	54.774	0.019	0.05	0	2.412	0.6572	101.3142
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	0.285	0.062	54.935	0.01	0.027	0.006	2.787	0.4788	101.6958
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	0.312	0.001	55.252	0.023	0.08	0	2.81	0.4783	102.4063
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	0.319	0.047	55.348	0.004	0.071	0.002	2.612	0.5761	102.5541
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	0.224	0.021	54.462	0.016	0.043	0	2.781	0.4807	101.5157
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	0.223	0.042	54.822	0.013	0.014	0.003	2.96	0.4077	102.3697
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	0.219	0.049	54.951	0.01	0.053	0	2.913	0.4194	101.6374
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	0.383	0.014	54.838	0.07	0.027	0.021	2.592	0.5698	101.9238
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	0.593	0.07	54.064	0.151	0	0.008	2.669	0.5186	101.1026
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	0	0	54.534	0.327	0.132	0.002	2.397	0.6479	101.2694
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	0.304	0.084	54.686	0	0.038	0.014	2.057	0.825	101.359
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	0.217	0.046	54.702	0.004	0.026	0.003	2.198	0.7569	101.5139
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	0.324	0.026	55.373	0.02	0.032	0.001	2.736	0.5225	102.7815
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	0.255	0.042	55.497	0.004	0	0	2.659	0.5626	102.6886
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	0.398	0.009	54.804	0.069	0.021	0.004	2.475	0.6041	100.5821
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	0.456	0.063	53.915	0.059	0.103	0.011	3.035	0.35	101.452

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	FeO	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	0.404	0.062	53.883	0.025	0.082	0.008	3.147	0.2939	101.4409
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	0.166	0.024	55.876	0.003	0.022	0.003	3.138	0.3409	103.2999
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	0.489	0.048	53.994	0.11	0.107	0	3.199	0.2785	101.5895
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	0.219	0.033	55.681	0	0	0	2.569	0.6107	102.9877
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	0.299	0.018	54.764	0.025	0.04	0	2.65	0.5487	101.6747
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	0.254	0	54.774	0.019	0.05	0	2.412	0.6572	101.3142
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	0.285	0.062	54.935	0.01	0.027	0.006	2.787	0.4788	101.6958
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	0.312	0.001	55.252	0.023	0.08	0	2.81	0.4783	102.4063
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	0.319	0.047	55.348	0.004	0.071	0.002	2.612	0.5761	102.5541
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	0.224	0.021	54.462	0.016	0.043	0	2.781	0.4807	101.5157
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	0.223	0.042	54.822	0.013	0.014	0.003	2.96	0.4077	102.3697
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	0.219	0.049	54.951	0.01	0.053	0	2.913	0.4194	101.6374
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	0.383	0.014	54.838	0.07	0.027	0.021	2.592	0.5698	101.9238
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	0.593	0.07	54.064	0.151	0	0.008	2.669	0.5186	101.1026
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	0	0	54.534	0.327	0.132	0.002	2.397	0.6479	101.2694
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	0.304	0.084	54.686	0	0.038	0.014	2.057	0.825	101.359
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	0.217	0.046	54.702	0.004	0.026	0.003	2.198	0.7569	101.5139
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	0.324	0.026	55.373	0.02	0.032	0.001	2.736	0.5225	102.7815
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	0.255	0.042	55.497	0.004	0	0	2.659	0.5626	102.6886
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	0.398	0.009	54.804	0.069	0.021	0.004	2.475	0.6041	100.5821
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	0.456	0.063	53.915	0.059	0.103	0.011	3.035	0.35	101.452
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	0.404	0.062	53.883	0.025	0.082	0.008	3.147	0.2939	101.4409
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	0.407	0.039	54.426	0.08	0.064	0.01	2.532	0.5812	101.0622
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	0.328	0.003	55.563	0.061	0	0	2.874	0.4477	102.5397
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	0.217	0.043	55.429	0.01	0.019	0	2.927	0.4191	102.5691
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	0.345	0.014	55.685	0.03	0.039	0	2.094	0.8163	102.1773
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	0.201	0.001	55.562	0.025	0.008	0	2.366	0.6777	101.6287
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	0.747	0.021	54.462	0.094	0.118	0.005	2.724	0.5033	101.9183
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	0.543	0.174	54.19	0.58	0.186	0.08	2.757	0.4788	102.0958
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	0.565	0.228	53.955	0.642	0.208	0.164	2.965	0.3575	102.1995
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	0.236	0.015	55.873	0	0.01	0.001	3.401	0.198	102.734
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	0.354	0.055	54.645	0.068	0.127	0	2.729	0.491	101.234
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	0.621	0.124	54.451	0.108	0.063	0	3.076	0.329	101.339
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	0.261	0.028	54.878	0.013	0.028	0.009	3.18	0.2796	101.4196
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	0.46	0.154	54.83	0.087	0.038	0	2.869	0.4377	101.6507
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	0.274	0.082	55.245	0.038	0.026	0.008	3.132	0.3165	102.0835
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	0	0	53.796	0.136	0.098	0.003	3.037	0.3145	99.8575
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	0.168	0.105	55.076	0.001	0.031	0	2.85	0.4417	101.3337
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	0.135	0.159	55.114	0.013	0.018	0.006	2.761	0.4919	101.7979
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	0.263	0.067	53.811	0.143	0.066	0	3.089	0.2905	99.6885
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	0.201	0	54.612	0.007	0.031	0	3.069	0.3262	100.8422
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	0.271	0.031	54.564	0.075	0.004	0.011	2.076	0.7966	100.3646
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	0.156	0.018	54.469	0	0.024	0	2.513	0.5834	100.1734
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	0.405	0.044	53.72	0.263	0.026	0.048	2.381	0.6317	100.2597
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	0.407	0.039	54.426	0.08	0.064	0.01	2.532	0.5812	101.0622
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	0.328	0.003	55.563	0.061	0	0	2.874	0.4477	102.5397
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	0.217	0.043	55.429	0.01	0.019	0	2.927	0.4191	102.5691
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	0.345	0.014	55.685	0.03	0.039	0	2.094	0.8163	102.1773
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	0.201	0.001	55.562	0.025	0.008	0	2.366	0.6777	101.6287

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	FeO	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	0.747	0.021	54.462	0.094	0.118	0.005	2.724	0.5033	101.9183
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	0.543	0.174	54.19	0.58	0.186	0.08	2.757	0.4788	102.0958
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	0.565	0.228	53.955	0.642	0.208	0.164	2.965	0.3575	102.1995
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	0.236	0.015	55.873	0	0.01	0.001	3.401	0.198	102.734
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	0.354	0.055	54.645	0.068	0.127	0	2.729	0.491	101.234
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	0.621	0.124	54.451	0.108	0.063	0	3.076	0.329	101.339
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	0.261	0.028	54.878	0.013	0.028	0.009	3.18	0.2796	101.4196
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	0.46	0.154	54.83	0.087	0.038	0	2.869	0.4377	101.6507
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	0.274	0.082	55.245	0.038	0.026	0.008	3.132	0.3165	102.0835
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	0	0	53.796	0.136	0.098	0.003	3.037	0.3145	99.8575
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	0.168	0.105	55.076	0.001	0.031	0	2.85	0.4417	101.3337
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	0.135	0.159	55.114	0.013	0.018	0.006	2.761	0.4919	101.7979
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	0.263	0.067	53.811	0.143	0.066	0	3.089	0.2905	99.6885
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	0.201	0	54.612	0.007	0.031	0	3.069	0.3262	100.8422
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	0.271	0.031	54.564	0.075	0.004	0.011	2.076	0.7966	100.3646
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	0.156	0.018	54.469	0	0.024	0	2.513	0.5834	100.1734
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	0.405	0.044	53.72	0.263	0.026	0.048	2.381	0.6317	100.2597
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	2	0.542	0.041	53.73	0.397	0.076	0	1.826	0.9146	100.1526
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	0.208	0.029	55.069	0	0.029	0	2.385	0.673	101.904
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	0.147	0	55.337	0	0.033	0	2.898	0.4317	101.9517
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	0.131	0.135	54.596	0.011	0.023	0	2.659	0.5352	101.0762
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	0.216	0	55.214	0.004	0.025	0	2.669	0.5274	101.9104
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	0.215	0.009	55.341	0	0.021	0	2.472	0.6184	101.3084
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	0.446	0.076	53.93	0.134	0.171	0.077	2.437	0.5983	100.3623
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	0.218	0.057	55.782	0.029	0.002	0	2.481	0.6293	101.9733
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	0.1506	0.012	55.729	0.034	0	0	2.45	0.6348	101.4938
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	0	0	55.053	0	0.136	0	2.516	0.5754	100.4963
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	0	0	55.204	0.008	0.103	0.006	2.142	0.7556	100.5404
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	0.156	0.065	55.374	0	0.046	0.012	2.833	0.4456	101.4126
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	0.222	0.075	54.34	0.043	0.049	0.02	2.332	0.6561	100.2061
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	0.114	0.045	55.028	0.006	0.003	0.004	2.376	0.6743	101.5203
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	0.208	0.029	55.069	0	0.029	0	2.385	0.673	101.904
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	0.147	0	55.337	0	0.033	0	2.898	0.4317	101.9517
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	0.131	0.135	54.596	0.011	0.023	0	2.659	0.5352	101.0762
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	0.216	0	55.214	0.004	0.025	0	2.669	0.5274	101.9104
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	0.215	0.009	55.341	0	0.021	0	2.472	0.6184	101.3084
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	0.446	0.076	53.93	0.134	0.171	0.077	2.437	0.5983	100.3623
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	0.218	0.057	55.782	0.029	0.002	0	2.481	0.6293	101.9733
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	0.1506	0.012	55.729	0.034	0	0	2.45	0.6348	101.4938
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	0	0	55.053	0	0.136	0	2.516	0.5754	100.4963
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	0	0	55.204	0.008	0.103	0.006	2.142	0.7556	100.5404
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	0.156	0.065	55.374	0	0.046	0.012	2.833	0.4456	101.4126
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	0.222	0.075	54.34	0.043	0.049	0.02	2.332	0.6561	100.2061
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	0.114	0.045	55.028	0.006	0.003	0.004	2.376	0.6743	101.5203
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	0.2934	0.1	55.605	0.008	0.082	0.012	2.644	0.5471	102.0475
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	0	0	55.295	0	0.049	0.017	2.842	0.4257	101.1446
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	0.488	0.025	54.423	0.234	0.025	0.036	2.679	0.5227	101.8327
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	0.265	0	55.353	0	0.006	0	3.162	0.3141	102.6941
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	0.249	0.03	55.034	0.032	0	0.017	2.743	0.4962	101.9112

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	FeO	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	0.27	0.022	54.918	0.029	0.046	0	2.097	0.7924	100.7354
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	0.199	0.003	55.113	0.003	0.032	0	2.911	0.4193	101.7363
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	0.373	0.115	54.586	0.057	0.09	0.027	2.723	0.5032	101.8072
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	0.2934	0.1	55.605	0.008	0.082	0.012	2.644	0.5471	102.0475
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	0	0	55.295	0	0.049	0.017	2.842	0.4257	101.1446
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	0.488	0.025	54.423	0.234	0.025	0.036	2.679	0.5227	101.8327
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	0.265	0	55.353	0	0.006	0	3.162	0.3141	102.6941
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	0.249	0.03	55.034	0.032	0	0.017	2.743	0.4962	101.9112
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	0.27	0.022	54.918	0.029	0.046	0	2.097	0.7924	100.7354
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	0.199	0.003	55.113	0.003	0.032	0	2.911	0.4193	101.7363
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	0.373	0.115	54.586	0.057	0.09	0.027	2.723	0.5032	101.8072
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	0	0	54.494	0.486	0.174	0.016	2.382	0.6735	102.5446
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	0.5051	0.14	54.291	0.314	0.091	0.001	2.101	0.787	100.6634
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	0.2488	0.105	54.305	0.318	0.078	0	1.89	0.8834	100.2842
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	0	0	54.898	0.004	0.058	0.391	2.539	0.4695	100.8396
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	0.029	0.056	54.666	0	0.047	0.431	2.499	0.4791	100.7141
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	0	0	54.694	0	0.066	0.384	2.375	0.5368	100.0436
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	0	0	54.921	0.003	0.074	0.384	1.972	0.7418	100.5642
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	0.249	0.035	54.995	0.012	0	0.006	2.218	0.7375	100.8915
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	0.264	0.033	55.015	0.017	0.016	0.007	2.132	0.7806	100.9236
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	0.375	0.233	53.524	0.301	0.267	0.009	2.569	0.5539	100.5129
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	0.249	0.035	54.995	0.012	0	0.006	2.218	0.7375	100.8915
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	0.264	0.033	55.015	0.017	0.016	0.007	2.132	0.7806	100.9236
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	0.375	0.233	53.524	0.301	0.267	0.009	2.569	0.5539	100.5129
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	0.295	0.007	54.577	0.029	0.06	0.007	2.567	0.5721	100.8911
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	0	0	54.494	0.486	0.174	0.016	2.382	0.6735	102.5446
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	0.5051	0.14	54.291	0.314	0.091	0.001	2.101	0.787	100.6634
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	0.2488	0.105	54.305	0.318	0.078	0	1.89	0.8834	100.2842
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	0	0	54.898	0.004	0.058	0.391	2.539	0.4695	100.8396
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	0.029	0.056	54.666	0	0.047	0.431	2.499	0.4791	100.7141
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	0	0	54.694	0	0.066	0.384	2.375	0.5368	100.0436
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	0	0	54.921	0.003	0.074	0.384	1.972	0.7418	100.5642
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	0.249	0.035	54.995	0.012	0	0.006	2.218	0.7375	100.8915
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	0.264	0.033	55.015	0.017	0.016	0.007	2.132	0.7806	100.9236
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	0.375	0.233	53.524	0.301	0.267	0.009	2.569	0.5539	100.5129
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	0.249	0.035	54.995	0.012	0	0.006	2.218	0.7375	100.8915
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	0.264	0.033	55.015	0.017	0.016	0.007	2.132	0.7806	100.9236
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	0.375	0.233	53.524	0.301	0.267	0.009	2.569	0.5539	100.5129
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	0.295	0.007	54.577	0.029	0.06	0.007	2.567	0.5721	100.8911
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	0.322	0.052	54.959	0.009	0.037	0	2.725	0.5135	101.8365
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	0.291	0.101	54.872	0.012	0.002	0	2.672	0.5366	101.8536
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	0.224	0.063	54.962	0.022	0.028	0	2.51	0.616	101.849
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	0.229	0.058	55.039	0.014	0.035	0	2.526	0.6111	101.9621
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	0.325	0.146	54.723	0.092	0.087	0	2.266	0.7294	101.6754
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	0.326	0.101	54.685	0.1	0.059	0.01	2.245	0.7344	101.7084
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	0	0	55.057	0.015	0.049	0.043	2.713	0.4771	100.5983
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	0.082	0.069	55.323	0.008	0.116	0	2.224	0.7426	101.5874
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	0.364	0	55.372	0.014	0.116	0.011	2.208	0.7521	101.8841
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	0.236	0.101	53.958	0.006	0.18	0	2.528	0.5808	100.8938

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	FeO	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	0.272	0.099	54.063	0	0.189	0.006	2.59	0.5453	100.6783
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	0.322	0.052	54.959	0.009	0.037	0	2.725	0.5135	101.8365
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	0.291	0.101	54.872	0.012	0.002	0	2.672	0.5366	101.8536
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	0.224	0.063	54.962	0.022	0.028	0	2.51	0.616	101.849
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	0.229	0.058	55.039	0.014	0.035	0	2.526	0.6111	101.9621
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	0.325	0.146	54.723	0.092	0.087	0	2.266	0.7294	101.6754
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	0.326	0.101	54.685	0.1	0.059	0.01	2.245	0.7344	101.7084
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	0	0	55.057	0.015	0.049	0.043	2.713	0.4771	100.5983
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	0.082	0.069	55.323	0.008	0.116	0	2.224	0.7426	101.5874
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	0.364	0	55.372	0.014	0.116	0.011	2.208	0.7521	101.8841
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	0.236	0.101	53.958	0.006	0.18	0	2.528	0.5808	100.8938
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	0.272	0.099	54.063	0	0.189	0.006	2.59	0.5453	100.6783
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	0.27	0.042	54.227	0.012	0.032	0	2.148	0.7686	100.4626
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	0.279	0.02	54.826	0	0.011	0.004	2.787	0.4707	101.4027
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	0.314	0.034	54.691	0.019	0.012	0	2.717	0.5076	101.2846
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	0.418	0	53.602	0.058	0.008	0.011	2.735	0.4542	99.2262
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	0.279	0.017	54.306	0.011	0.021	0	2.577	0.5673	100.9593
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	0.328	0.117	54.035	0.034	0.253	0	2.89	0.4192	101.8012
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	0.385	0.066	54.627	0.033	0.074	0.015	2.969	0.3745	101.3005
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	0.317	0	54.839	0.021	0.064	0.005	2.972	0.3954	102.1994
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	0.359	0.038	54.644	0.023	0.089	0.009	2.86	0.4379	101.5449
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	0.315	0	54.739	0	0.102	0	2.77	0.4847	101.4117
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	0.331	0.015	54.101	0.024	0.067	0.001	2.766	0.4779	100.9969
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	0.269	0.049	54.344	0.003	0.043	0.009	2.672	0.519	100.934
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	0.302	0.148	54.147	0.016	0.073	0.01	2.57	0.572	101.139
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	0.27	0.042	54.227	0.012	0.032	0	2.148	0.7686	100.4626
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	0.279	0.02	54.826	0	0.011	0.004	2.787	0.4707	101.4027
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	0.314	0.034	54.691	0.019	0.012	0	2.717	0.5076	101.2846
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	0.418	0	53.602	0.058	0.008	0.011	2.735	0.4542	99.2262
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	0.279	0.017	54.306	0.011	0.021	0	2.577	0.5673	100.9593
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	0.328	0.117	54.035	0.034	0.253	0	2.89	0.4192	101.8012
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	0.385	0.066	54.627	0.033	0.074	0.015	2.969	0.3745	101.3005
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	0.317	0	54.839	0.021	0.064	0.005	2.972	0.3954	102.1994
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	0.359	0.038	54.644	0.023	0.089	0.009	2.86	0.4379	101.5449
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	0.315	0	54.739	0	0.102	0	2.77	0.4847	101.4117
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	0.331	0.015	54.101	0.024	0.067	0.001	2.766	0.4779	100.9969
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	0.269	0.049	54.344	0.003	0.043	0.009	2.672	0.519	100.934
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	0.302	0.148	54.147	0.016	0.073	0.01	2.57	0.572	101.139
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	0.021	0.296	54.278	0.027	0.11	0.099	2.83	0.4011	100.259
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	0.021	0.296	54.278	0.027	0.11	0.099	2.83	0.4011	100.259
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	0.254	0.138	54.556	0.021	0.084	0.005	2.949	0.4033	101.8043
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	0.405	0.132	54.703	0.016	0.094	0.009	2.636	0.5387	101.2227
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	0.478	0.102	54.694	0.029	0.123	0.016	2.926	0.3955	101.3255
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	0.338	0.162	54.551	0.024	0.04	0.012	2.633	0.55	101.554
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	0.322	0.147	54.992	0.018	0.05	0	2.831	0.469	102.175
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	0.254	0.138	54.556	0.021	0.084	0.005	2.949	0.4033	101.8043
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	0.405	0.132	54.703	0.016	0.094	0.009	2.636	0.5387	101.2227
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	0.478	0.102	54.694	0.029	0.123	0.016	2.926	0.3955	101.3255
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	0.338	0.162	54.551	0.024	0.04	0.012	2.633	0.55	101.554

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	FeO	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	0.322	0.147	54.992	0.018	0.05	0	2.831	0.469	102.175
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	0.536	1.163	53.498	0.052	0.058	0.01	2.756	0.4945	101.9965
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	0.539	0.749	53.609	0.077	0.127	0.01	2.779	0.4658	100.9488
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	0.536	1.163	53.498	0.052	0.058	0.01	2.756	0.4945	101.9965
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	0.539	0.749	53.609	0.077	0.127	0.01	2.779	0.4658	100.9488
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	1.698	0.296	53.33	0.132	0.161	0.088	2.773	0.4801	102.8231
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	1.698	0.296	53.33	0.132	0.161	0.088	2.773	0.4801	102.8231
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	0	0	55.271	0	0.012	0	2.379	0.6523	100.7844
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	0.285	0.058	54.239	0.026	0.052	0.012	2.559	0.5641	100.5541
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	0.2271	0.007	54.496	0.046	0.012	0.001	1.976	0.8331	100.0328
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	0.51	0.042	54.611	0.097	0.036	0	2.374	0.667	101.087
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	0	0	55.271	0	0.012	0	2.379	0.6523	100.7844
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	0.285	0.058	54.239	0.026	0.052	0.012	2.559	0.5641	100.5541
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	0.2271	0.007	54.496	0.046	0.012	0.001	1.976	0.8331	100.0328
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	0.51	0.042	54.611	0.097	0.036	0	2.374	0.667	101.087
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	0.104	0.05	55.676	0	0.043	0	2.918	0.4277	102.6957
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	0.131	0	55.124	0.007	0.022	0.006	2.945	0.4053	102.1383
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	0.339	0.026	53.551	0.087	0.073	0.018	3.091	0.2871	99.5941
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	0.235	0.012	54.603	0.023	0.131	0	2.975	0.3822	101.4992
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	0.137	0.061	54.328	0.001	0.081	0.002	2.665	0.498	99.995
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	0	0	54.923	0.014	0.09	0	2.671	0.507	100.6155
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	0	0	54.782	0	0.037	0	3.19	0.2637	101.0122
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	0.264	0.06	55.141	0	0.032	0.004	2.792	0.4584	100.9454
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	0.109	0.024	54.809	0.006	0.027	0.002	2.387	0.6604	101.1274
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	0.297	0	54.413	0.048	0.027	0	3.327	0.2073	101.2863
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	0.187	0.007	55.005	0.001	0.031	0	2.629	0.5533	101.4893
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	0.137	0	55.179	0	0.044	0	2.901	0.4228	101.5758
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	0.207	0	54.89	0.035	0.026	0.001	2.755	0.4825	101.0415
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	0.185	0.02	55.112	0.005	0.032	0	2.668	0.5294	101.2674
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	0.197	0.047	54.609	0.02	0.09	0.018	3.013	0.3463	100.9033
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	0	0	55.387	0.019	0.101	0	2.798	0.4632	101.5064
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	0.1246	0.062	55.167	0.019	0.103	0	2.851	0.4352	101.1619
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	0.395	0.276	53.991	0.025	0.193	0.007	2.891	0.4157	101.1277
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	0.2484	0.301	54.218	0.065	0.227	0	2.779	0.4633	100.8938
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	0.283	0.015	55.461	0.013	0.037	0	3.108	0.3415	102.9035
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	0.091	0	54.979	0.03	0.065	0.009	2.888	0.4306	101.8866
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	0.157	0.12	55.063	0	0.034	0.019	2.705	0.5211	102.1401
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	0.063	0.02	55.288	0.021	0.007	0.019	3.464	0.1524	102.1854
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	0.152	0.077	55.044	0	0	0.012	2.694	0.5205	101.5575
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	0.182	0.087	55.259	0	0	0	2.671	0.5357	101.6467
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	0.198	0	54.979	0.017	0.043	0	2.716	0.498	100.916
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	0.104	0.05	55.676	0	0.043	0	2.918	0.4277	102.6957
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	0.131	0	55.124	0.007	0.022	0.006	2.945	0.4053	102.1383
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	0.339	0.026	53.551	0.087	0.073	0.018	3.091	0.2871	99.5941
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	0.235	0.012	54.603	0.023	0.131	0	2.975	0.3822	101.4992
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	0.137	0.061	54.328	0.001	0.081	0.002	2.665	0.498	99.995
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	0	0	54.923	0.014	0.09	0	2.671	0.507	100.6155
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	0	0	54.782	0	0.037	0	3.19	0.2637	101.0122
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	0.264	0.06	55.141	0	0.032	0.004	2.792	0.4584	100.9454

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	FeO	MnO	CaO	MgO	Na2O	Cl	F	H2O	Total#
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	0.109	0.024	54.809	0.006	0.027	0.002	2.387	0.6604	101.1274
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	0.297	0	54.413	0.048	0.027	0	3.327	0.2073	101.2863
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	0.187	0.007	55.005	0.001	0.031	0	2.629	0.5533	101.4893
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	0.137	0	55.179	0	0.044	0	2.901	0.4228	101.5758
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	0.207	0	54.89	0.035	0.026	0.001	2.755	0.4825	101.0415
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	0.185	0.02	55.112	0.005	0.032	0	2.668	0.5294	101.2674
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	0.197	0.047	54.609	0.02	0.09	0.018	3.013	0.3463	100.9033
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	0	0	55.387	0.019	0.101	0	2.798	0.4632	101.5064
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	0.1246	0.062	55.167	0.019	0.103	0	2.851	0.4352	101.1619
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	0.395	0.276	53.991	0.025	0.193	0.007	2.891	0.4157	101.1277
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	0.2484	0.301	54.218	0.065	0.227	0	2.779	0.4633	100.8938
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	0.283	0.015	55.461	0.013	0.037	0	3.108	0.3415	102.9035
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	0.091	0	54.979	0.03	0.065	0.009	2.888	0.4306	101.8866
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	0.157	0.12	55.063	0	0.034	0.019	2.705	0.5211	102.1401
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	0.063	0.02	55.288	0.021	0.007	0.019	3.464	0.1524	102.1854
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	0.152	0.077	55.044	0	0	0.012	2.694	0.5205	101.5575
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	0.182	0.087	55.259	0	0	0	2.671	0.5357	101.6467
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	0.198	0	54.979	0.017	0.043	0	2.716	0.498	100.916

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	O=F	O=Cl	Total	P5+	Total	Nd3+	Ce3+
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	-0.9024	-0.0072	99.1262	3.027	3.027	0.0022	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	-1.0523	-0.0027	99.8967	3.0198	3.0198	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	-1.0287	-0.002	99.8624	3.0354	3.0354	0.0017	0.0002
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	-0.9655	0	99.7586	2.9959	2.9959	0	0.0013
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	-1.0695	-0.0217	100.1426	3.0265	3.0265	0.0044	0.0131
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	-1.0645	-0.0449	99.6939	3.0337	3.0337	0.0055	0.0083
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	-1.2097	-0.0036	99.7975	3.0295	3.0295	0.0004	0.0021
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	-1.1891	0	100.4362	3.0278	3.0278	0	0.002
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	-1.0022	-0.0029	99.5357	3.0273	3.0273	0.0065	0.011
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	-1.008	0	100.5678	3.024	3.024	0.002	0.0115
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	-0.8918	-0.0032	100.6027	3.0195	3.0195	0.0008	0.0122
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	-1.0624	-0.0025	101.3523	3.0162	3.0162	0.0011	0.0006
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	-1.1264	0	101.3599	3.01	3.01	0	0.0022
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	-1.2148	0	98.86	2.9886	2.9886	0.0014	0.0049
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	-1.067	-0.0068	100.4272	3.0277	3.0277	0.001	0.0101
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	-0.9457	-0.0086	100.0194	3.0005	3.0005	0.0048	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	-0.9954	0	100.0868	3.0278	3.0278	0.0021	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	-1.1445	-0.0018	100.7866	3.0283	3.0283	0.0009	0.0054
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	-1.2342	-0.005	100.6664	3.0344	3.0344	0	0.0009
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	-0.9323	-0.0011	98.4921	2.9706	2.9706	0.0006	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	-0.9024	-0.0072	99.1262	3.027	3.027	0.0022	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	-1.0523	-0.0027	99.8967	3.0198	3.0198	0	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	-1.0287	-0.002	99.8624	3.0354	3.0354	0.0017	0.0002
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	-0.9655	0	99.7586	2.9959	2.9959	0	0.0013
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	-1.0695	-0.0217	100.1426	3.0265	3.0265	0.0044	0.0131
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	-1.0645	-0.0449	99.6939	3.0337	3.0337	0.0055	0.0083
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	-1.2097	-0.0036	99.7975	3.0295	3.0295	0.0004	0.0021
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	-1.1891	0	100.4362	3.0278	3.0278	0	0.002
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	-1.0022	-0.0029	99.5357	3.0273	3.0273	0.0065	0.011
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	-1.008	0	100.5678	3.024	3.024	0.002	0.0115
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	-0.8918	-0.0032	100.6027	3.0195	3.0195	0.0008	0.0122
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	-1.0624	-0.0025	101.3523	3.0162	3.0162	0.0011	0.0006
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	-1.1264	0	101.3599	3.01	3.01	0	0.0022
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	-1.2148	0	98.86	2.9886	2.9886	0.0014	0.0049
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	-1.067	-0.0068	100.4272	3.0277	3.0277	0.001	0.0101
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	-0.9457	-0.0086	100.0194	3.0005	3.0005	0.0048	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	-0.9954	0	100.0868	3.0278	3.0278	0.0021	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	-1.1445	-0.0018	100.7866	3.0283	3.0283	0.0009	0.0054
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	-1.2342	-0.005	100.6664	3.0344	3.0344	0	0.0009
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	-0.9323	-0.0011	98.4921	2.9706	2.9706	0.0006	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	-1.2396	-0.0061	100.8967	3.0301	3.0301	0	0.0053
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	-1.2965	-0.0023	99.8786	3.01	3.01	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	-1.2287	-0.0052	100.2667	3.0121	3.0121	0.0012	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	-1.2725	-0.0002	100.5476	3.0102	3.0102	0.0018	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	-1.0089	-0.0016	101.5971	3.0281	3.0281	0.0009	0.0026
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	-0.9765	-0.0341	100.6567	3.0401	3.0401	0.0021	0.0006
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	-0.9866	-0.032	100.6727	3.0411	3.0411	0.0006	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	-1.1445	0	100.4229	3.021	3.021	0.0026	0.0111
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	-0.8906	-0.0079	98.9505	3.0259	3.0259	0	0.0024

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	O=F	O=Cl	Total	P5+	Total	Nd3+	Ce3+
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	-0.9765	-0.1255	100.8219	3.0371	3.0371	0.0009	0.0079
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	-1.0906	-0.0018	100.5743	3.0188	3.0188	0	0.0015
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	-1.0034	-0.0278	100.0503	3.0175	3.0175	0.0041	0.0037
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	-1.1622	-0.0034	101.5861	3.0198	3.0198	0	0.0026
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	-1.2224	-0.0043	100.4738	3.0247	3.0247	0.0021	0.0004
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	-0.9706	-0.0029	99.8155	2.9695	2.9695	0.0073	0.0229
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	-1.0556	-0.002	99.7415	2.9606	2.9606	0.0115	0.0213
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	-0.9958	-0.002	100.2858	3.0261	3.0261	0.003	0.003
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	-1.0594	0	100.446	3.0189	3.0189	0.0042	0.0107
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	-1.2969	-0.0009	101.0819	3.0353	3.0353	0	0.0115
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	-1.2396	-0.0061	100.8967	3.0301	3.0301	0	0.0053
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	-1.2965	-0.0023	99.8786	3.01	3.01	0	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	-1.2287	-0.0052	100.2667	3.0121	3.0121	0.0012	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	-1.2725	-0.0002	100.5476	3.0102	3.0102	0.0018	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	-1.0089	-0.0016	101.5971	3.0281	3.0281	0.0009	0.0026
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	-0.9765	-0.0341	100.6567	3.0401	3.0401	0.0021	0.0006
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	-0.9866	-0.032	100.6727	3.0411	3.0411	0.0006	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	-1.1445	0	100.4229	3.021	3.021	0.0026	0.0111
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	-0.8906	-0.0079	98.9505	3.0259	3.0259	0	0.0024
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	-0.9765	-0.1255	100.8219	3.0371	3.0371	0.0009	0.0079
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	-1.0906	-0.0018	100.5743	3.0188	3.0188	0	0.0015
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	-1.0034	-0.0278	100.0503	3.0175	3.0175	0.0041	0.0037
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	-1.1622	-0.0034	101.5861	3.0198	3.0198	0	0.0026
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	-1.2224	-0.0043	100.4738	3.0247	3.0247	0.0021	0.0004
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	-0.9706	-0.0029	99.8155	2.9695	2.9695	0.0073	0.0229
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	-1.0556	-0.002	99.7415	2.9606	2.9606	0.0115	0.0213
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	-0.9958	-0.002	100.2858	3.0261	3.0261	0.003	0.003
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	-1.0594	0	100.446	3.0189	3.0189	0.0042	0.0107
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	-1.2969	-0.0009	101.0819	3.0353	3.0353	0	0.0115
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	-1.3213	-0.0007	101.9779	3.0308	3.0308	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	-1.347	0	100.2425	3.0359	3.0359	0.0025	0.0083
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	-1.0817	0	101.906	3.0338	3.0338	0.0008	0.0017
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	-1.1158	0	100.5588	3.0368	3.0368	0.0004	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	-1.0156	0	100.2985	3.0343	3.0343	0.0018	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	-1.1735	-0.0014	100.521	3.0277	3.0277	0	0.0037
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	-1.1832	0	101.2231	3.0205	3.0205	0.0031	0.0076
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	-1.0998	-0.0005	101.4539	3.0215	3.0215	0.0014	0.0067
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	-1.171	0	100.3447	3.0383	3.0383	0.0022	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	-1.2464	-0.0007	101.1227	3.0376	3.0376	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	-1.2266	0	100.4108	3.0281	3.0281	0	0.0006
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	-1.0914	-0.0047	100.8276	3.0237	3.0237	0.0009	0.0109
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	-1.1238	-0.0018	99.9769	3.0189	3.0189	0.0038	0.0089
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	-1.0093	-0.0005	100.2596	2.9537	2.9537	0.0004	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	-0.8661	-0.0032	100.4897	3.0365	3.0365	0.0001	0.0026
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	-0.9255	-0.0007	100.5877	3.0273	3.0273	0.001	0.0124
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	-1.1521	-0.0002	101.6292	3.0274	3.0274	0	0.0086
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	-1.1196	0	101.5689	3.0345	3.0345	0.0002	0.0008
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	-1.0422	-0.0009	99.539	3.0021	3.0021	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	-1.278	-0.0025	100.1716	3.0345	3.0345	0.0062	0.0067

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	O=F	O=Cl	Total	P5+	Total	Nd3+	Ce3+
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	-1.3251	-0.0018	100.1139	3.0315	3.0315	0.0063	0.0156
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	-1.3213	-0.0007	101.9779	3.0308	3.0308	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	-1.347	0	100.2425	3.0359	3.0359	0.0025	0.0083
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	-1.0817	0	101.906	3.0338	3.0338	0.0008	0.0017
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	-1.1158	0	100.5588	3.0368	3.0368	0.0004	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	-1.0156	0	100.2985	3.0343	3.0343	0.0018	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	-1.1735	-0.0014	100.521	3.0277	3.0277	0	0.0037
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	-1.1832	0	101.2231	3.0205	3.0205	0.0031	0.0076
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	-1.0998	-0.0005	101.4539	3.0215	3.0215	0.0014	0.0067
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	-1.171	0	100.3447	3.0383	3.0383	0.0022	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	-1.2464	-0.0007	101.1227	3.0376	3.0376	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	-1.2266	0	100.4108	3.0281	3.0281	0	0.0006
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	-1.0914	-0.0047	100.8276	3.0237	3.0237	0.0009	0.0109
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	-1.1238	-0.0018	99.9769	3.0189	3.0189	0.0038	0.0089
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	-1.0093	-0.0005	100.2596	2.9537	2.9537	0.0004	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	-0.8661	-0.0032	100.4897	3.0365	3.0365	0.0001	0.0026
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	-0.9255	-0.0007	100.5877	3.0273	3.0273	0.001	0.0124
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	-1.1521	-0.0002	101.6292	3.0274	3.0274	0	0.0086
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	-1.1196	0	101.5689	3.0345	3.0345	0.0002	0.0008
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	-1.0422	-0.0009	99.539	3.0021	3.0021	0	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	-1.278	-0.0025	100.1716	3.0345	3.0345	0.0062	0.0067
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	-1.3251	-0.0018	100.1139	3.0315	3.0315	0.0063	0.0156
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	-1.0662	-0.0023	99.9937	3.0099	3.0099	0.0032	0.0065
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	-1.2102	0	101.3296	3.0094	3.0094	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	-1.2325	0	101.3366	3.0075	3.0075	0.0014	0.004
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	-0.8817	0	101.2955	3.0033	3.0033	0	0.0098
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	-0.9963	0	100.6325	3.0059	3.0059	0	0.0023
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	-1.147	-0.0011	100.7702	3.01	3.01	0.0071	0.0096
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	-1.1609	-0.0181	100.9169	3.0137	3.0137	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	-1.2485	-0.037	100.914	3.0141	3.0141	0.0012	0.0025
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	-1.4321	-0.0002	101.3017	3.0088	3.0088	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	-1.1491	0	100.0849	3.0044	3.0044	0.0068	0.0045
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	-1.2952	0	100.0438	3.0114	3.0114	0.0019	0.0008
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	-1.339	-0.002	100.0786	3.0159	3.0159	0	0.0004
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	-1.2081	0	100.4426	3.0173	3.0173	0.0005	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	-1.3188	-0.0018	100.7629	3.0177	3.0177	0.0009	0.0007
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	-1.2788	-0.0007	98.578	2.9832	2.9832	0.0035	0.0105
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	-1.2001	0	100.1337	3.0168	3.0168	0	0.0013
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	-1.1626	-0.0014	100.634	3.0229	3.0229	0	0.0051
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	-1.3007	0	98.3878	3.0028	3.0028	0.0047	0.0014
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	-1.2923	0	99.5499	3.0188	3.0188	0.0022	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	-0.8741	-0.0025	99.4879	3.0204	3.0204	0.0019	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	-1.0582	0	99.1153	3.0189	3.0189	0.0007	0.002
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	-1.0026	-0.0108	99.2463	3.0143	3.0143	0.0043	0.0086
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	-1.0662	-0.0023	99.9937	3.0099	3.0099	0.0032	0.0065
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	-1.2102	0	101.3296	3.0094	3.0094	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	-1.2325	0	101.3366	3.0075	3.0075	0.0014	0.004
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	-0.8817	0	101.2955	3.0033	3.0033	0	0.0098
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	-0.9963	0	100.6325	3.0059	3.0059	0	0.0023

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	O=F	O=Cl	Total	P5+	Total	Nd3+	Ce3+
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	-1.147	-0.0011	100.7702	3.01	3.01	0.0071	0.0096
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	-1.1609	-0.0181	100.9169	3.0137	3.0137	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	-1.2485	-0.037	100.914	3.0141	3.0141	0.0012	0.0025
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	-1.4321	-0.0002	101.3017	3.0088	3.0088	0	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	-1.1491	0	100.0849	3.0044	3.0044	0.0068	0.0045
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	-1.2952	0	100.0438	3.0114	3.0114	0.0019	0.0008
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	-1.339	-0.002	100.0786	3.0159	3.0159	0	0.0004
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	-1.2081	0	100.4426	3.0173	3.0173	0.0005	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	-1.3188	-0.0018	100.7629	3.0177	3.0177	0.0009	0.0007
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	-1.2788	-0.0007	98.578	2.9832	2.9832	0.0035	0.0105
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	-1.2001	0	100.1337	3.0168	3.0168	0	0.0013
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	-1.1626	-0.0014	100.634	3.0229	3.0229	0	0.0051
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	-1.3007	0	98.3878	3.0028	3.0028	0.0047	0.0014
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	-1.2923	0	99.5499	3.0188	3.0188	0.0022	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	-0.8741	-0.0025	99.4879	3.0204	3.0204	0.0019	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	-1.0582	0	99.1153	3.0189	3.0189	0.0007	0.002
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	-1.0026	-0.0108	99.2463	3.0143	3.0143	0.0043	0.0086
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	2	-0.7689	0	99.3837	3.0163	3.0163	0.0019	0.0069
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	-1.0043	0	100.8997	3.0194	3.0194	0	0.0026
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	-1.2203	0	100.7314	3.0245	3.0245	0.0015	0.0007
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	-1.1196	0	99.9565	3.0379	3.0379	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	-1.1238	0	100.7866	2.9974	2.9974	0.0044	0.0192
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	-1.0409	0	100.2675	3.0018	3.0018	0.0048	0.0021
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	-1.0262	-0.0174	99.3188	3.011	3.011	0.0025	0.0067
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	-1.0447	0	100.9286	3.0055	3.0055	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	-1.0316	0	100.4622	2.9994	2.9994	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	-1.0594	0	99.4369	2.9673	2.9673	0.0004	0.0076
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	-0.9019	-0.0014	99.6371	2.9645	2.9645	0.0012	0.0011
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	-1.1929	-0.0027	100.217	3.0059	3.0059	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	-0.9819	-0.0045	99.2197	2.9982	2.9982	0.0059	0.0134
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	-1.0005	-0.0009	100.5189	3.0274	3.0274	0	0.0024
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	-1.0043	0	100.8997	3.0194	3.0194	0	0.0026
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	-1.2203	0	100.7314	3.0245	3.0245	0.0015	0.0007
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	-1.1196	0	99.9565	3.0379	3.0379	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	-1.1238	0	100.7866	2.9974	2.9974	0.0044	0.0192
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	-1.0409	0	100.2675	3.0018	3.0018	0.0048	0.0021
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	-1.0262	-0.0174	99.3188	3.011	3.011	0.0025	0.0067
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	-1.0447	0	100.9286	3.0055	3.0055	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	-1.0316	0	100.4622	2.9994	2.9994	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	-1.0594	0	99.4369	2.9673	2.9673	0.0004	0.0076
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	-0.9019	-0.0014	99.6371	2.9645	2.9645	0.0012	0.0011
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	-1.1929	-0.0027	100.217	3.0059	3.0059	0	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	-0.9819	-0.0045	99.2197	2.9982	2.9982	0.0059	0.0134
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	-1.0005	-0.0009	100.5189	3.0274	3.0274	0	0.0024
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	-1.1133	-0.0027	100.9315	3.0033	3.0033	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	-1.1967	-0.0038	99.9441	2.9801	2.9801	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	-1.1281	-0.0081	100.6965	3.0245	3.0245	0.003	0.0077
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	-1.3314	0	101.3626	3.0236	3.0236	0.0009	0.0018
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	-1.155	-0.0038	100.7524	3.0187	3.0187	0.0028	0.0107

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	O=F	O=Cl	Total	P5+	Total	Nd3+	Ce3+
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	-0.883	0	99.8524	3.0106	3.0106	0.0016	0.0015
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	-1.2257	0	100.5106	3.0214	3.0214	0.0008	0.0049
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	-1.1466	-0.0061	100.6545	3.0264	3.0264	0.0015	0.0094
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	-1.1133	-0.0027	100.9315	3.0033	3.0033	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	-1.1967	-0.0038	99.9441	2.9801	2.9801	0	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	-1.1281	-0.0081	100.6965	3.0245	3.0245	0.003	0.0077
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	-1.3314	0	101.3626	3.0236	3.0236	0.0009	0.0018
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	-1.155	-0.0038	100.7524	3.0187	3.0187	0.0028	0.0107
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	-0.883	0	99.8524	3.0106	3.0106	0.0016	0.0015
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	-1.2257	0	100.5106	3.0214	3.0214	0.0008	0.0049
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	-1.1466	-0.0061	100.6545	3.0264	3.0264	0.0015	0.0094
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	-1.003	-0.0036	101.538	2.9579	2.9579	0.0012	0.0037
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	-0.8847	-0.0002	99.7785	3.0022	3.0022	0.0024	0.0044
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	-0.7958	0	99.4883	2.9968	2.9968	0	0.0026
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	-1.0691	-0.0882	99.6823	2.9942	2.9942	0	0.0096
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	-1.0523	-0.0973	99.5646	3.0059	3.0059	0.0016	0.0041
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	-1	-0.0866	98.9569	2.9905	2.9905	0.0018	0.0076
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	-0.8304	-0.0866	99.6472	2.9957	2.9957	0.0031	0.0059
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	-0.9339	-0.0014	99.9562	3.0167	3.0167	0.0013	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	-0.8977	-0.0016	100.0243	3.0191	3.0191	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	-1.0817	-0.002	99.4292	3.0092	3.0092	0.0055	0.0104
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	-0.9339	-0.0014	99.9562	3.0167	3.0167	0.0013	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	-0.8977	-0.0016	100.0243	3.0191	3.0191	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	-1.0817	-0.002	99.4292	3.0092	3.0092	0.0055	0.0104
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	-1.0809	-0.0016	99.8087	3.0298	3.0298	0.0007	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	-1.003	-0.0036	101.538	2.9579	2.9579	0.0012	0.0037
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	-0.8847	-0.0002	99.7785	3.0022	3.0022	0.0024	0.0044
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	-0.7958	0	99.4883	2.9968	2.9968	0	0.0026
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	-1.0691	-0.0882	99.6823	2.9942	2.9942	0	0.0096
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	-1.0523	-0.0973	99.5646	3.0059	3.0059	0.0016	0.0041
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	-1	-0.0866	98.9569	2.9905	2.9905	0.0018	0.0076
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	-0.8304	-0.0866	99.6472	2.9957	2.9957	0.0031	0.0059
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	-0.9339	-0.0014	99.9562	3.0167	3.0167	0.0013	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	-0.8977	-0.0016	100.0243	3.0191	3.0191	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	-1.0817	-0.002	99.4292	3.0092	3.0092	0.0055	0.0104
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	-0.9339	-0.0014	99.9562	3.0167	3.0167	0.0013	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	-0.8977	-0.0016	100.0243	3.0191	3.0191	0	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	-1.0817	-0.002	99.4292	3.0092	3.0092	0.0055	0.0104
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	-1.0809	-0.0016	99.8087	3.0298	3.0298	0.0007	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	-1.1474	0	100.6891	3.0301	3.0301	0	0.0035
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	-1.1251	0	100.7285	3.027	3.027	0.0014	0.0061
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	-1.0569	0	100.7921	3.0286	3.0286	0	0.0048
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	-1.0636	0	100.8985	3.0302	3.0302	0	0.0032
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	-0.9541	0	100.7212	3.0243	3.0243	0.0024	0.0066
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	-0.9453	-0.0023	100.7609	3.02	3.02	0.0008	0.0139
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	-1.1424	-0.0097	99.4462	2.985	2.985	0.001	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	-0.9365	0	100.6509	2.9971	2.9971	0.0036	0.0031
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	-0.9297	-0.0025	100.9519	3.0034	3.0034	0.003	0.0069
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	-1.0645	0	99.8294	3.0174	3.0174	0.005	0.0168

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	O=F	O=Cl	Total	P5+	Total	Nd3+	Ce3+
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	-1.0906	-0.0014	99.5864	3.0112	3.0112	0.0048	0.0137
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	-1.1474	0	100.6891	3.0301	3.0301	0	0.0035
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	-1.1251	0	100.7285	3.027	3.027	0.0014	0.0061
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	-1.0569	0	100.7921	3.0286	3.0286	0	0.0048
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	-1.0636	0	100.8985	3.0302	3.0302	0	0.0032
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	-0.9541	0	100.7212	3.0243	3.0243	0.0024	0.0066
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	-0.9453	-0.0023	100.7609	3.02	3.02	0.0008	0.0139
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	-1.1424	-0.0097	99.4462	2.985	2.985	0.001	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	-0.9365	0	100.6509	2.9971	2.9971	0.0036	0.0031
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	-0.9297	-0.0025	100.9519	3.0034	3.0034	0.003	0.0069
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	-1.0645	0	99.8294	3.0174	3.0174	0.005	0.0168
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	-1.0906	-0.0014	99.5864	3.0112	3.0112	0.0048	0.0137
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	-0.9045	0	99.5581	3.0356	3.0356	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	-1.1735	-0.0009	100.2283	3.0204	3.0204	0.0021	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	-1.1441	0	100.1406	3.0301	3.0301	0	0.0034
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	-1.1516	-0.0025	98.0721	3.0157	3.0157	0.0008	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	-1.0851	0	99.8742	3.0316	3.0316	0.0014	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	-1.2169	0	100.5843	3.0152	3.0152	0.0108	0.0192
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	-1.2502	-0.0034	100.0469	3.0107	3.0107	0	0.0063
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	-1.2514	-0.0011	100.9468	3.0268	3.0268	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	-1.2043	-0.002	100.3386	3.025	3.025	0.0003	0.0001
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	-1.1664	0	100.2453	3.0306	3.0306	0	0.002
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	-1.1647	-0.0002	99.832	3.037	3.037	0	0.0006
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	-1.1251	-0.002	99.8069	3.0309	3.0309	0.0025	0.0057
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	-1.0822	-0.0023	100.0546	3.0367	3.0367	0.0039	0.0057
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	-0.9045	0	99.5581	3.0356	3.0356	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	-1.1735	-0.0009	100.2283	3.0204	3.0204	0.0021	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	-1.1441	0	100.1406	3.0301	3.0301	0	0.0034
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	-1.1516	-0.0025	98.0721	3.0157	3.0157	0.0008	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	-1.0851	0	99.8742	3.0316	3.0316	0.0014	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	-1.2169	0	100.5843	3.0152	3.0152	0.0108	0.0192
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	-1.2502	-0.0034	100.0469	3.0107	3.0107	0	0.0063
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	-1.2514	-0.0011	100.9468	3.0268	3.0268	0	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	-1.2043	-0.002	100.3386	3.025	3.025	0.0003	0.0001
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	-1.1664	0	100.2453	3.0306	3.0306	0	0.002
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	-1.1647	-0.0002	99.832	3.037	3.037	0	0.0006
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	-1.1251	-0.002	99.8069	3.0309	3.0309	0.0025	0.0057
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	-1.0822	-0.0023	100.0546	3.0367	3.0367	0.0039	0.0057
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	-1.1916	-0.0223	99.045	2.9986	2.9986	0	0
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	-1.1916	-0.0223	99.045	2.9986	2.9986	0	0
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	-1.2417	-0.0011	100.5615	3.0358	3.0358	0.001	0
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	-1.1099	-0.002	100.1107	3.0159	3.0159	0.0004	0.0014
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	-1.2321	-0.0036	100.0899	3.0076	3.0076	0.0012	0.0027
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	-1.1087	-0.0027	100.4427	3.0349	3.0349	0.001	0.0034
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	-1.1921	0	100.983	3.0326	3.0326	0.002	0
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	-1.2417	-0.0011	100.5615	3.0358	3.0358	0.001	0
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	-1.1099	-0.002	100.1107	3.0159	3.0159	0.0004	0.0014
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	-1.2321	-0.0036	100.0899	3.0076	3.0076	0.0012	0.0027
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	-1.1087	-0.0027	100.4427	3.0349	3.0349	0.001	0.0034

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	O=F	O=Cl	Total	P5+	Total	Nd3+	Ce3+
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	-1.1921	0	100.983	3.0326	3.0326	0.002	0
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	-1.1605	-0.0023	100.8338	3.0373	3.0373	0.0001	0.0037
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	-1.1702	-0.0023	99.7764	3.0269	3.0269	0	0
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	-1.1605	-0.0023	100.8338	3.0373	3.0373	0.0001	0.0037
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	-1.1702	-0.0023	99.7764	3.0269	3.0269	0	0
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	-1.1676	-0.0199	101.6356	3.042	3.042	0.0017	0.007
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	-1.1676	-0.0199	101.6356	3.042	3.042	0.0017	0.007
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	-1.0017	0	99.7827	2.9862	2.9862	0	0
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	-1.0775	-0.0027	99.4739	3.0233	3.0233	0	0.0016
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	-0.832	-0.0002	99.2005	2.9969	2.9969	0	0
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	-0.9996	0	100.0874	3.019	3.019	0	0
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	-1.0017	0	99.7827	2.9862	2.9862	0	0
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	-1.0775	-0.0027	99.4739	3.0233	3.0233	0	0.0016
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	-0.832	-0.0002	99.2005	2.9969	2.9969	0	0
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	-0.9996	0	100.0874	3.019	3.019	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	-1.2287	0	101.467	3.0092	3.0092	0.0011	0.0037
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	-1.2401	-0.0014	100.8969	3.0198	3.0198	0.0015	0.0018
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	-1.3015	-0.0041	98.2885	3.018	3.018	0.0022	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	-1.2527	0	100.2465	3.0222	3.0222	0.004	0.0026
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	-1.1222	-0.0005	98.8724	3.0001	3.0001	0.006	0.0088
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	-1.1247	0	99.4908	2.9899	2.9899	0.0036	0.0069
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	-1.3432	0	99.6689	2.9914	2.9914	0.0016	0.0003
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	-1.1756	-0.0009	99.7689	3.003	3.003	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	-1.0051	-0.0005	100.1219	3.0228	3.0228	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	-1.4009	0	99.8854	3.02	3.02	0.0005	0.0063
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	-1.107	0	100.3823	3.0271	3.0271	0	0.0034
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	-1.2215	0	100.3543	3.0218	3.0218	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	-1.1601	-0.0002	99.8813	3.0184	3.0184	0.0006	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	-1.1234	0	100.144	3.0189	3.0189	0.0005	0.0006
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	-1.2687	-0.0041	99.6306	3.0108	3.0108	0.0019	0.0054
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	-1.1782	0	100.3283	2.9902	2.9902	0.0001	0.0065
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	-1.2005	0	99.9615	3.004	3.004	0.0006	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	-1.2173	-0.0016	99.9088	3.0287	3.0287	0.0009	0.0057
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	-1.1702	0	99.7236	3.0057	3.0057	0.0014	0.0029
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	-1.3087	0	101.5948	3.0172	3.0172	0.0003	0.0003
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	-1.2161	-0.002	100.6685	3.0254	3.0254	0.0012	0.0017
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	-1.139	-0.0043	100.9968	3.0275	3.0275	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	-1.4586	-0.0043	100.7225	3.0147	3.0147	0	0.0017
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	-1.1344	-0.0027	100.4205	3.0281	3.0281	0.0003	0.002
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	-1.1247	0	100.522	3.0223	3.0223	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	-1.1436	0	99.7723	3.0126	3.0126	0.0012	0.0012
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	-1.2287	0	101.467	3.0092	3.0092	0.0011	0.0037
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	-1.2401	-0.0014	100.8969	3.0198	3.0198	0.0015	0.0018
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	-1.3015	-0.0041	98.2885	3.018	3.018	0.0022	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	-1.2527	0	100.2465	3.0222	3.0222	0.004	0.0026
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	-1.1222	-0.0005	98.8724	3.0001	3.0001	0.006	0.0088
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	-1.1247	0	99.4908	2.9899	2.9899	0.0036	0.0069
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	-1.3432	0	99.6689	2.9914	2.9914	0.0016	0.0003
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	-1.1756	-0.0009	99.7689	3.003	3.003	0	0

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	O=F	O=Cl	Total	P5+	Total	Nd3+	Ce3+
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	-1.0051	-0.0005	100.1219	3.0228	3.0228	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	-1.4009	0	99.8854	3.02	3.02	0.0005	0.0063
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	-1.107	0	100.3823	3.0271	3.0271	0	0.0034
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	-1.2215	0	100.3543	3.0218	3.0218	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	-1.1601	-0.0002	99.8813	3.0184	3.0184	0.0006	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	-1.1234	0	100.144	3.0189	3.0189	0.0005	0.0006
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	-1.2687	-0.0041	99.6306	3.0108	3.0108	0.0019	0.0054
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	-1.1782	0	100.3283	2.9902	2.9902	0.0001	0.0065
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	-1.2005	0	99.9615	3.004	3.004	0.0006	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	-1.2173	-0.0016	99.9088	3.0287	3.0287	0.0009	0.0057
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	-1.1702	0	99.7236	3.0057	3.0057	0.0014	0.0029
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	-1.3087	0	101.5948	3.0172	3.0172	0.0003	0.0003
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	-1.2161	-0.002	100.6685	3.0254	3.0254	0.0012	0.0017
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	-1.139	-0.0043	100.9968	3.0275	3.0275	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	-1.4586	-0.0043	100.7225	3.0147	3.0147	0	0.0017
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	-1.1344	-0.0027	100.4205	3.0281	3.0281	0.0003	0.002
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	-1.1247	0	100.522	3.0223	3.0223	0	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	-1.1436	0	99.7723	3.0126	3.0126	0.0012	0.0012

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	La3+	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	0.0005	0	0	0	0	0.0152	0.0028	4.907	0.0001
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	0.0009	0	0	0	0.0034	0.0181	0	4.9247	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	0.0002	0	0	0	0	0.0123	0.013	4.8715	0.0009
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	0.0012	0.0138	0	0	0	0.0196	0.0041	4.9463	0.0138
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	0.0016	0	0	0	0	0.0258	0.0088	4.8573	0.0065
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	0.0048	0	0	0	0	0.025	0.0111	4.8344	0.0084
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	0.0018	0	0	0	0.0003	0.0268	0.0051	4.8683	0.0164
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	0.0007	0	0	0	0	0.0113	0	4.9131	0.0014
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	0.0065	0	0	0	0	0.024	0.0032	4.8576	0.0015
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	0.0032	0	0	0	0	0.0116	0.0075	4.8916	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	0.0021	0	0	0	0	0.0132	0.0042	4.904	0.0016
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	0.0007	0	0	0	0.0001	0.0155	0.0001	4.9366	0.0022
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	0	0	0	0	0	0.0148	0.0023	4.9506	0.0016
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	0.0013	0.0214	0.0014	0	0.0361	0	0	4.9381	0.0061
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	0.0003	0	0	0	0	0.0272	0.0071	4.8497	0.0273
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	0.0009	0.0141	0	0	0.0033	0.0764	0.0001	4.8202	0.0583
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	0	0	0	0	0.0285	0.0104	0.0005	4.8821	0.0007
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	0.0002	0	0	0	0	0.0119	0	4.9062	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	0	0	0	0	0	0.0203	0.0188	4.8681	0.0036
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	0	0.0209	0.002	0	0.0135	0	0	5.019	0.0019
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	0.0005	0	0	0	0	0.0152	0.0028	4.907	0.0001
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	0.0009	0	0	0	0.0034	0.0181	0	4.9247	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	0.0002	0	0	0	0	0.0123	0.013	4.8715	0.0009
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	0.0012	0.0138	0	0	0	0.0196	0.0041	4.9463	0.0138
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	0.0016	0	0	0	0	0.0258	0.0088	4.8573	0.0065
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	0.0048	0	0	0	0	0.025	0.0111	4.8344	0.0084
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	0.0018	0	0	0	0.0003	0.0268	0.0051	4.8683	0.0164
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	0.0007	0	0	0	0	0.0113	0	4.9131	0.0014
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	0.0065	0	0	0	0	0.024	0.0032	4.8576	0.0015
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	0.0032	0	0	0	0	0.0116	0.0075	4.8916	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	0.0021	0	0	0	0	0.0132	0.0042	4.904	0.0016
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	0.0007	0	0	0	0.0001	0.0155	0.0001	4.9366	0.0022
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	0	0	0	0	0	0.0148	0.0023	4.9506	0.0016
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	0.0013	0.0214	0.0014	0	0.0361	0	0	4.9381	0.0061
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	0.0003	0	0	0	0	0.0272	0.0071	4.8497	0.0273
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	0.0009	0.0141	0	0	0.0033	0.0764	0.0001	4.8202	0.0583
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	0	0	0	0	0.0285	0.0104	0.0005	4.8821	0.0007
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	0.0002	0	0	0	0	0.0119	0	4.9062	0
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	0	0	0	0	0	0.0203	0.0188	4.8681	0.0036
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	0	0.0209	0.002	0	0.0135	0	0	5.019	0.0019
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	0	0	0	0	0.0159	0.0128	0.0004	4.8842	0.0026
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	0	0	0	0	0	0.0115	0.0051	4.9563	0.0006
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	0.0002	0	0	0	0	0.0131	0.0046	4.946	0.0011
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	0.0027	0	0	0	0	0.0156	0.0048	4.9422	0.0005
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	0	0	0	0	0.0189	0.0114	0.0036	4.8846	0.0027
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	0	0	0	0	0	0.0096	0.0138	4.8612	0.003
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	0	0	0	0	0	0.0139	0.0105	4.8656	0.0015
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	0.0007	0	0	0	0	0.0085	0.0033	4.9088	0.001
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	0	0	0	0	0	0.1032	0.0097	4.7746	0.0134

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	La3+	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	0.0002	0	0	0	0	0.0872	0.0141	4.7624	0.0238
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	0	0	0	0	0.007	0.0219	0.002	4.9075	0.0089
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	0	0	0	0	0	0.0382	0.0077	4.8823	0.0126
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	0.002	0	0	0	0.0004	0.0132	0.0015	4.9269	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	0	0	0	0	0.0099	0.0192	0.0012	4.9042	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	0.0073	0.0444	0.0126	0	0.0011	0	0	4.9085	0.013
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	0.0066	0.0441	0.0084	0	0.0031	0	0	4.9296	0.015
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	0.0036	0	0	0	0	0.0471	0.0052	4.847	0.0139
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	0.0051	0	0	0	0.0024	0.0492	0.0084	4.846	0.0106
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	0.0017	0	0	0	0.0303	0.0226	0.0058	4.8231	0.003
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	0	0	0	0	0.0159	0.0128	0.0004	4.8842	0.0026
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	0	0	0	0	0	0.0115	0.0051	4.9563	0.0006
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	0.0002	0	0	0	0	0.0131	0.0046	4.946	0.0011
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	0.0027	0	0	0	0	0.0156	0.0048	4.9422	0.0005
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	0	0	0	0	0.0189	0.0114	0.0036	4.8846	0.0027
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	0	0	0	0	0	0.0096	0.0138	4.8612	0.003
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	0	0	0	0	0	0.0139	0.0105	4.8656	0.0015
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	0.0007	0	0	0	0	0.0085	0.0033	4.9088	0.001
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	0	0	0	0	0	0.1032	0.0097	4.7746	0.0134
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	0.0002	0	0	0	0	0.0872	0.0141	4.7624	0.0238
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	0	0	0	0	0.007	0.0219	0.002	4.9075	0.0089
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	0	0	0	0	0	0.0382	0.0077	4.8823	0.0126
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	0.002	0	0	0	0.0004	0.0132	0.0015	4.9269	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	0	0	0	0	0.0099	0.0192	0.0012	4.9042	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	0.0073	0.0444	0.0126	0	0.0011	0	0	4.9085	0.013
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	0.0066	0.0441	0.0084	0	0.0031	0	0	4.9296	0.015
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	0.0036	0	0	0	0	0.0471	0.0052	4.847	0.0139
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	0.0051	0	0	0	0.0024	0.0492	0.0084	4.846	0.0106
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	0.0017	0	0	0	0.0303	0.0226	0.0058	4.8231	0.003
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	0.0012	0	0	0	0	0.0114	0.0017	4.906	0.0004
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	0.0021	0	0	0	0	0.0342	0.0034	4.8311	0.0137
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	0.0003	0	0	0	0.0031	0.015	0.0023	4.8908	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	0.002	0	0	0	0.0028	0.0208	0.0013	4.8732	0.0031
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	0.0011	0	0	0	0	0.0177	0	4.8859	0.0024
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	0	0	0	0	0	0.0198	0.0044	4.8975	0.0012
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	0.0001	0	0	0	0	0.0216	0.0001	4.9016	0.0028
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	0.0014	0	0	0	0.0024	0.022	0.0033	4.8981	0.0005
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	0	0	0	0	0.0164	0.0156	0.0015	4.862	0.002
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	0.0011	0	0	0	0.0232	0.0154	0.0029	4.86	0.0016
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	0	0	0	0	0.0022	0.0153	0.0035	4.9024	0.0012
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	0.0012	0	0	0	0	0.0266	0.001	4.8827	0.0087
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	0.0037	0	0	0	0.0005	0.0416	0.005	4.8623	0.0189
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	0.0021	0.0972	0.0046	0	0	0	0	4.9076	0.0409
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	0.0032	0	0	0	0	0.0211	0.0059	4.8697	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	0.0058	0	0	0	0	0.0151	0.0032	4.882	0.0005
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	0.0015	0	0	0	0	0.0223	0.0018	4.8872	0.0025
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	0.0013	0	0	0	0	0.0175	0.0029	4.8893	0.0005
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	0.0001	0	0	0	0.0061	0.0281	0.0006	4.9495	0.0087
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	0.006	0	0	0	0	0.0319	0.0045	4.8334	0.0074

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	La3+	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	0.0035	0	0	0	0	0.0283	0.0044	4.8408	0.0031
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	0.0012	0	0	0	0	0.0114	0.0017	4.906	0.0004
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	0.0021	0	0	0	0	0.0342	0.0034	4.8311	0.0137
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	0.0003	0	0	0	0.0031	0.015	0.0023	4.8908	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	0.002	0	0	0	0.0028	0.0208	0.0013	4.8732	0.0031
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	0.0011	0	0	0	0	0.0177	0	4.8859	0.0024
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	0	0	0	0	0	0.0198	0.0044	4.8975	0.0012
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	0.0001	0	0	0	0	0.0216	0.0001	4.9016	0.0028
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	0.0014	0	0	0	0.0024	0.022	0.0033	4.8981	0.0005
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	0	0	0	0	0.0164	0.0156	0.0015	4.862	0.002
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	0.0011	0	0	0	0.0232	0.0154	0.0029	4.86	0.0016
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	0	0	0	0	0.0022	0.0153	0.0035	4.9024	0.0012
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	0.0012	0	0	0	0	0.0266	0.001	4.8827	0.0087
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	0.0037	0	0	0	0.0005	0.0416	0.005	4.8623	0.0189
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	0.0021	0.0972	0.0046	0	0	0	0	4.9076	0.0409
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	0.0032	0	0	0	0	0.0211	0.0059	4.8697	0
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	0.0058	0	0	0	0	0.0151	0.0032	4.882	0.0005
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	0.0015	0	0	0	0	0.0223	0.0018	4.8872	0.0025
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	0.0013	0	0	0	0	0.0175	0.0029	4.8893	0.0005
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	0.0001	0	0	0	0.0061	0.0281	0.0006	4.9495	0.0087
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	0.006	0	0	0	0	0.0319	0.0045	4.8334	0.0074
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	0.0035	0	0	0	0	0.0283	0.0044	4.8408	0.0031
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	0	0	0	0	0.0144	0.0286	0.0028	4.8999	0.01
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	0	0	0	0	0.0162	0.0227	0.0002	4.9299	0.0075
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	0	0	0	0	0.0245	0.0151	0.003	4.9277	0.0012
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	0.0006	0	0	0	0	0.0239	0.001	4.9443	0.0037
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	0	0	0	0	0.0045	0.014	0.0001	4.9596	0.0031
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	0.003	0	0	0	0	0.0521	0.0015	4.8706	0.0117
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	0.0039	0	0	0	0.0042	0.0377	0.0122	4.8189	0.0718
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	0.0009	0	0	0	0.0048	0.0392	0.016	4.8016	0.0795
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	0.0009	0	0	0	0.002	0.0163	0.0011	4.9564	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	0.0019	0	0	0	0.0039	0.0249	0.0039	4.9177	0.0085
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	0.0019	0	0	0	0.0001	0.0436	0.0088	4.8933	0.0135
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	0	0	0	0	0.0099	0.0183	0.002	4.9256	0.0016
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	0	0	0	0	0.0008	0.0321	0.0109	4.8985	0.0108
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	0.0009	0	0	0	0	0.019	0.0058	4.9204	0.0047
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	0.0013	0.0427	0.0041	0	0	0	0	4.9234	0.0173
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	0	0	0	0	0	0.0117	0.0074	4.9342	0.0001
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	0	0	0	0	0	0.0094	0.0112	4.9115	0.0016
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	0.0009	0	0	0	0.0103	0.0188	0.0048	4.9249	0.0182
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	0.0007	0	0	0	0.0065	0.0141	0	4.9247	0.0009
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	0	0	0	0	0.0012	0.019	0.0022	4.9138	0.0094
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	0	0	0	0	0.005	0.011	0.0013	4.9294	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	0.0034	0	0	0	0.0052	0.0286	0.0032	4.8674	0.0332
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	0	0	0	0	0.0144	0.0286	0.0028	4.8999	0.01
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	0	0	0	0	0.0162	0.0227	0.0002	4.9299	0.0075
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	0	0	0	0	0.0245	0.0151	0.003	4.9277	0.0012
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	0.0006	0	0	0	0	0.0239	0.001	4.9443	0.0037
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	0	0	0	0	0.0045	0.014	0.0001	4.9596	0.0031

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	La3+	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	0.003	0	0	0	0	0.0521	0.0015	4.8706	0.0117
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	0.0039	0	0	0	0.0042	0.0377	0.0122	4.8189	0.0718
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	0.0009	0	0	0	0.0048	0.0392	0.016	4.8016	0.0795
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	0.0009	0	0	0	0.002	0.0163	0.0011	4.9564	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	0.0019	0	0	0	0.0039	0.0249	0.0039	4.9177	0.0085
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	0.0019	0	0	0	0.0001	0.0436	0.0088	4.8933	0.0135
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	0	0	0	0	0.0099	0.0183	0.002	4.9256	0.0016
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	0	0	0	0	0.0008	0.0321	0.0109	4.8985	0.0108
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	0.0009	0	0	0	0	0.019	0.0058	4.9204	0.0047
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	0.0013	0.0427	0.0041	0	0	0	0	4.9234	0.0173
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	0	0	0	0	0	0.0117	0.0074	4.9342	0.0001
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	0	0	0	0	0	0.0094	0.0112	4.9115	0.0016
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	0.0009	0	0	0	0.0103	0.0188	0.0048	4.9249	0.0182
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	0.0007	0	0	0	0.0065	0.0141	0	4.9247	0.0009
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	0	0	0	0	0.0012	0.019	0.0022	4.9138	0.0094
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	0	0	0	0	0.005	0.011	0.0013	4.9294	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	0.0034	0	0	0	0.0052	0.0286	0.0032	4.8674	0.0332
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	2	0	0	0	0	0.0014	0.0382	0.0029	4.8476	0.0498
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	0	0	0	0	0.0248	0.0145	0.002	4.9041	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	0	0	0	0	0	0.0102	0	4.9226	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	0	0	0	0	0	0.0091	0.0095	4.8833	0.0014
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	0.0024	0	0	0	0.0029	0.0151	0	4.9468	0.0005
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	0.001	0	0	0	0.0012	0.0151	0.0006	4.965	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	0.0039	0	0	0	0	0.0315	0.0054	4.885	0.0169
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	0.0002	0	0	0	0.0005	0.0151	0.004	4.9625	0.0036
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	0	0.0019	0	0	0	0.0105	0.0008	4.9831	0.0042
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	0.0003	0.0372	0.0003	0	0.001	0	0	5.0009	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	0	0.0388	0.0055	0	0.0072	0	0	5.0023	0.001
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	0.001	0	0	0	0.0006	0.0109	0.0046	4.964	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	0.0033	0	0	0	0	0.0158	0.0054	4.9401	0.0054
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	0.0012	0	0	0	0.0082	0.0079	0.0032	4.9056	0.0007
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	0	0	0	0	0.0248	0.0145	0.002	4.9041	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	0	0	0	0	0	0.0102	0	4.9226	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	0	0	0	0	0	0.0091	0.0095	4.8833	0.0014
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	0.0024	0	0	0	0.0029	0.0151	0	4.9468	0.0005
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	0.001	0	0	0	0.0012	0.0151	0.0006	4.965	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	0.0039	0	0	0	0	0.0315	0.0054	4.885	0.0169
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	0.0002	0	0	0	0.0005	0.0151	0.004	4.9625	0.0036
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	0	0.0019	0	0	0	0.0105	0.0008	4.9831	0.0042
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	0.0003	0.0372	0.0003	0	0.001	0	0	5.0009	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	0	0.0388	0.0055	0	0.0072	0	0	5.0023	0.001
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	0.001	0	0	0	0.0006	0.0109	0.0046	4.964	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	0.0033	0	0	0	0	0.0158	0.0054	4.9401	0.0054
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	0.0012	0	0	0	0.0082	0.0079	0.0032	4.9056	0.0007
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	0.0012	0.0021	0	0	0	0.0204	0.007	4.9517	0.001
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	0	0.0145	0	0	0.0269	0	0	4.997	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	0.0032	0	0	0	0	0.034	0.0018	4.8512	0.029
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	0.0004	0	0	0	0.014	0.0183	0	4.9035	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	0	0	0	0	0.0014	0.0173	0.0021	4.9083	0.004

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	La3+	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	0.0024	0	0	0	0	0.0189	0.0016	4.9373	0.0036
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	0.0009	0	0	0	0	0.0139	0.0002	4.9195	0.0004
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	0.0008	0	0	0	0	0.026	0.0081	4.8681	0.0071
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	0.0012	0.0021	0	0	0	0.0204	0.007	4.9517	0.001
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	0	0.0145	0	0	0.0269	0	0	4.997	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	0.0032	0	0	0	0	0.034	0.0018	4.8512	0.029
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	0.0004	0	0	0	0.014	0.0183	0	4.9035	0
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	0	0	0	0	0.0014	0.0173	0.0021	4.9083	0.004
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	0.0024	0	0	0	0	0.0189	0.0016	4.9373	0.0036
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	0.0009	0	0	0	0	0.0139	0.0002	4.9195	0.0004
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	0.0008	0	0	0	0	0.026	0.0081	4.8681	0.0071
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	0	0.1092	0.0018	0	0.013	0	0	4.8444	0.0601
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	0	0.0015	0	0	0	0.0355	0.01	4.8899	0.0393
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	0.001	0.0188	0	0	0.0013	0.0175	0.0075	4.9019	0.0399
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	0.0024	0.0009	0.0036	0	0.01	0	0	4.9746	0.0005
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	0.0022	0	0	0	0.0122	0.0021	0.004	4.9513	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	0.0013	0.0007	0.0043	0	0.0043	0	0	4.9905	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	0.0027	0.0026	0.0039	0	0.0051	0	0	4.9718	0.0004
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	0.0001	0	0	0	0.0015	0.0174	0.0025	4.9333	0.0015
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	0	0	0	0	0	0.0185	0.0023	4.9279	0.0021
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	0.003	0	0	0	0	0.0265	0.0167	4.8457	0.0379
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	0.0001	0	0	0	0.0015	0.0174	0.0025	4.9333	0.0015
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	0	0	0	0	0	0.0185	0.0023	4.9279	0.0021
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	0.003	0	0	0	0	0.0265	0.0167	4.8457	0.0379
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	0	0	0	0	0	0.0207	0.0005	4.8948	0.0036
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	0	0.1092	0.0018	0	0.013	0	0	4.8444	0.0601
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	0	0.0015	0	0	0	0.0355	0.01	4.8899	0.0393
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	0.001	0.0188	0	0	0.0013	0.0175	0.0075	4.9019	0.0399
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	0.0024	0.0009	0.0036	0	0.01	0	0	4.9746	0.0005
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	0.0022	0	0	0	0.0122	0.0021	0.004	4.9513	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	0.0013	0.0007	0.0043	0	0.0043	0	0	4.9905	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	0.0027	0.0026	0.0039	0	0.0051	0	0	4.9718	0.0004
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	0.0001	0	0	0	0.0015	0.0174	0.0025	4.9333	0.0015
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	0	0	0	0	0	0.0185	0.0023	4.9279	0.0021
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	0.003	0	0	0	0	0.0265	0.0167	4.8457	0.0379
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	0.0001	0	0	0	0.0015	0.0174	0.0025	4.9333	0.0015
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	0	0	0	0	0	0.0185	0.0023	4.9279	0.0021
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	0.003	0	0	0	0	0.0265	0.0167	4.8457	0.0379
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	0	0	0	0	0	0.0207	0.0005	4.8948	0.0036
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	0	0	0	0	0	0.0224	0.0037	4.8895	0.0011
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	0.0032	0	0	0	0	0.0202	0.0071	4.8873	0.0015
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	0.0011	0	0	0	0.0064	0.0156	0.0044	4.8882	0.0027
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	0.0019	0	0	0	0.0048	0.0159	0.0041	4.8877	0.0017
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	0.0009	0	0	0	0	0.0226	0.0103	4.8732	0.0114
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	0.0031	0	0	0	0	0.0227	0.0071	4.8763	0.0124
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	0	0.026	0.0046	0	0	0	0	4.9843	0.0019
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	0.0021	0.0187	0	0	0	0.0057	0.0049	4.9451	0.001
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	0.0025	0	0	0	0	0.0253	0	4.9365	0.0017
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	0.0062	0	0	0	0.0043	0.0166	0.0072	4.8708	0.0008

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	La3+	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	0.0064	0	0	0	0	0.0192	0.0071	4.893	0
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	0	0	0	0	0	0.0224	0.0037	4.8895	0.0011
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	0.0032	0	0	0	0	0.0202	0.0071	4.8873	0.0015
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	0.0011	0	0	0	0.0064	0.0156	0.0044	4.8882	0.0027
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	0.0019	0	0	0	0.0048	0.0159	0.0041	4.8877	0.0017
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	0.0009	0	0	0	0	0.0226	0.0103	4.8732	0.0114
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	0.0031	0	0	0	0	0.0227	0.0071	4.8763	0.0124
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	0	0.026	0.0046	0	0	0	0	4.9843	0.0019
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	0.0021	0.0187	0	0	0	0.0057	0.0049	4.9451	0.001
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	0.0025	0	0	0	0	0.0253	0	4.9365	0.0017
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	0.0062	0	0	0	0.0043	0.0166	0.0072	4.8708	0.0008
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	0.0064	0	0	0	0	0.0192	0.0071	4.893	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	0.0016	0	0	0	0.0082	0.0189	0.003	4.8743	0.0015
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	0	0	0	0	0.0127	0.0195	0.0014	4.9114	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	0.0002	0	0	0	0	0.0219	0.0024	4.8918	0.0024
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	0	0	0	0	0.0121	0.0299	0	4.9096	0.0074
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	0.0001	0	0	0	0.0192	0.0196	0.0012	4.8756	0.0014
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	0.0069	0	0	0	0	0.023	0.0083	4.8504	0.0042
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	0.002	0	0	0	0.0059	0.027	0.0047	4.9131	0.0041
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	0.0002	0	0	0	0.0248	0.022	0	4.8782	0.0026
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	0	0	0	0	0.0127	0.0251	0.0027	4.8866	0.0029
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	0	0	0	0	0	0.022	0	4.8901	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	0	0	0	0	0.018	0.0232	0.0011	4.8559	0.003
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	0.0002	0	0	0	0.0024	0.0189	0.0035	4.8816	0.0004
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	0.0025	0	0	0	0	0.0211	0.0105	4.8506	0.002
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	0.0016	0	0	0	0.0082	0.0189	0.003	4.8743	0.0015
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	0	0	0	0	0.0127	0.0195	0.0014	4.9114	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	0.0002	0	0	0	0	0.0219	0.0024	4.8918	0.0024
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	0	0	0	0	0.0121	0.0299	0	4.9096	0.0074
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	0.0001	0	0	0	0.0192	0.0196	0.0012	4.8756	0.0014
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	0.0069	0	0	0	0	0.023	0.0083	4.8504	0.0042
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	0.002	0	0	0	0.0059	0.027	0.0047	4.9131	0.0041
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	0.0002	0	0	0	0.0248	0.022	0	4.8782	0.0026
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	0	0	0	0	0.0127	0.0251	0.0027	4.8866	0.0029
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	0	0	0	0	0	0.022	0	4.8901	0
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	0	0	0	0	0.018	0.0232	0.0011	4.8559	0.003
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	0.0002	0	0	0	0.0024	0.0189	0.0035	4.8816	0.0004
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	0.0025	0	0	0	0	0.0211	0.0105	4.8506	0.002
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	0	0.0222	0	0	0.0037	0.0015	0.0213	4.9312	0.0034
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	0	0.0222	0	0	0.0037	0.0015	0.0213	4.9312	0.0034
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	0.002	0	0	0	0.0084	0.0177	0.0097	4.8609	0.0026
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	0.0019	0	0	0	0.0007	0.0284	0.0094	4.9067	0.002
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	0.0028	0	0	0	0	0.0335	0.0072	4.9166	0.0036
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	0.0007	0	0	0	0	0.0235	0.0114	4.8641	0.003
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	0	0	0	0	0	0.0223	0.0103	4.8768	0.0022
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	0.002	0	0	0	0.0084	0.0177	0.0097	4.8609	0.0026
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	0.0019	0	0	0	0.0007	0.0284	0.0094	4.9067	0.002
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	0.0028	0	0	0	0	0.0335	0.0072	4.9166	0.0036
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	0.0007	0	0	0	0	0.0235	0.0114	4.8641	0.003

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	La3+	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	0	0	0	0	0	0.0223	0.0103	4.8768	0.0022
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	0	0	0	0	0.0067	0.0373	0.0819	4.7641	0.0064
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	0	0	0	0	0	0.0378	0.0533	4.8217	0.0096
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	0	0	0	0	0.0067	0.0373	0.0819	4.7641	0.0064
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	0	0	0	0	0	0.0378	0.0533	4.8217	0.0096
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	0.0006	0	0	0	0	0.1172	0.0207	4.7141	0.0162
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	0.0006	0	0	0	0	0.1172	0.0207	4.7141	0.0162
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	0	0.0226	0.0021	0	0.0094	0	0	4.987	0
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	0	0	0	0	0.0144	0.0201	0.0041	4.8933	0.0033
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	0.0001	0.0113	0	0	0.0224	0.0161	0.0005	4.945	0.0058
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	0.0008	0	0	0	0.004	0.0357	0.003	4.8935	0.0121
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	0	0.0226	0.0021	0	0.0094	0	0	4.987	0
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	0	0	0	0	0.0144	0.0201	0.0041	4.8933	0.0033
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	0.0001	0.0113	0	0	0.0224	0.0161	0.0005	4.945	0.0058
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	0.0008	0	0	0	0.004	0.0357	0.003	4.8935	0.0121
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	0	0	0	0	0.0179	0.0072	0.0035	4.9377	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	0.0017	0	0	0	0.0207	0.0091	0	4.9105	0.0009
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	0	0	0	0	0.0131	0.0242	0.0019	4.8953	0.0111
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	0	0	0	0	0.0113	0.0164	0.0008	4.8926	0.0029
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	0.0029	0	0	0	0	0.0097	0.0044	4.9524	0.0001
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	0.0014	0.0092	0.0064	0	0	0	0	4.9747	0.0018
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	0	0.0275	0.002	0	0.0171	0	0	4.9543	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	0	0	0	0	0	0.0186	0.0043	4.967	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	0.0001	0	0	0	0.0196	0.0076	0.0017	4.911	0.0007
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	0.0002	0	0	0	0.0132	0.0209	0	4.8972	0.006
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	0.0012	0	0	0	0	0.013	0.0005	4.9092	0.0001
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	0.0024	0	0	0	0	0.0096	0	4.9288	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	0.001	0	0	0	0.0022	0.0145	0	4.9284	0.0044
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	0	0	0	0	0	0.0129	0.0014	4.9336	0.0006
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	0	0	0	0	0.0055	0.0139	0.0034	4.9295	0.0025
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	0.0002	0.0172	0.0049	0	0	0	0	4.9707	0.0024
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	0.0011	0.003	0	0	0	0.0087	0.0044	4.959	0.0024
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	0.0014	0	0	0	0	0.0277	0.0196	4.85	0.0031
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	0.0016	0.0142	0	0	0	0.0175	0.0215	4.8901	0.0082
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	0	0	0	0	0.0227	0.0195	0.001	4.9081	0.0016
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	0.0004	0	0	0	0.0158	0.0063	0	4.9005	0.0037
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	0	0	0	0	0.0184	0.0109	0.0084	4.8908	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	0	0	0	0	0.0169	0.0044	0.0014	4.9349	0.0026
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	0.0005	0	0	0	0	0.0106	0.0054	4.9096	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	0	0	0	0	0	0.0127	0.0061	4.9256	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	0	0	0	0	0	0.0139	0	4.9455	0.0021
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	0	0	0	0	0.0179	0.0072	0.0035	4.9377	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	0.0017	0	0	0	0.0207	0.0091	0	4.9105	0.0009
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	0	0	0	0	0.0131	0.0242	0.0019	4.8953	0.0111
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	0	0	0	0	0.0113	0.0164	0.0008	4.8926	0.0029
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	0.0029	0	0	0	0	0.0097	0.0044	4.9524	0.0001
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	0.0014	0.0092	0.0064	0	0	0	0	4.9747	0.0018
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	0	0.0275	0.002	0	0.0171	0	0	4.9543	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	0	0	0	0	0	0.0186	0.0043	4.967	0

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	La3+	Fe3+	Mn3+	Al3+	Sr2+	Fe2+	Mn2+	Ca2+	Mg2+
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	0.0001	0	0	0	0.0196	0.0076	0.0017	4.911	0.0007
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	0.0002	0	0	0	0.0132	0.0209	0	4.8972	0.006
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	0.0012	0	0	0	0	0.013	0.0005	4.9092	0.0001
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	0.0024	0	0	0	0	0.0096	0	4.9288	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	0.001	0	0	0	0.0022	0.0145	0	4.9284	0.0044
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	0	0	0	0	0	0.0129	0.0014	4.9336	0.0006
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	0	0	0	0	0.0055	0.0139	0.0034	4.9295	0.0025
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	0.0002	0.0172	0.0049	0	0	0	0	4.9707	0.0024
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	0.0011	0.003	0	0	0	0.0087	0.0044	4.959	0.0024
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	0.0014	0	0	0	0	0.0277	0.0196	4.85	0.0031
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	0.0016	0.0142	0	0	0	0.0175	0.0215	4.8901	0.0082
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	0	0	0	0	0.0227	0.0195	0.001	4.9081	0.0016
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	0.0004	0	0	0	0.0158	0.0063	0	4.9005	0.0037
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	0	0	0	0	0.0184	0.0109	0.0084	4.8908	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	0	0	0	0	0.0169	0.0044	0.0014	4.9349	0.0026
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	0.0005	0	0	0	0	0.0106	0.0054	4.9096	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	0	0	0	0	0	0.0127	0.0061	4.9256	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	0	0	0	0	0	0.0139	0	4.9455	0.0021

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Na+	Total	OH-	Cl-	F-	Total
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	0.0064	4.9342	0.424	0.0046	0.5715	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	0.0058	4.953	0.3362	0.0017	0.6621	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	0.0214	4.9211	0.3526	0.0013	0.6461	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	0.0039	5.0041	0.3901	0	0.6099	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	0.0132	4.9307	0.3134	0.0136	0.673	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	0.0179	4.9154	0.2992	0.0284	0.6725	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	0.0057	4.927	0.2364	0.0023	0.7614	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	0.0015	4.9299	0.2567	0	0.7433	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	0.019	4.9292	0.3637	0.0019	0.6345	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	0.0084	4.9359	0.369	0	0.631	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	0.0115	4.9495	0.44	0.002	0.5581	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	0.0027	4.9597	0.3395	0.0015	0.659	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	0.0045	4.976	0.3007	0	0.6993	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	0.0055	5.0161	0.2215	0	0.7785	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	0.0045	4.9272	0.3279	0.0042	0.6678	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	0.0213	4.9995	0.3983	0.0054	0.5963	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	0.0104	4.9347	0.3742	0	0.6258	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	0.0032	4.9278	0.2856	0.0011	0.7133	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	0.0034	4.9151	0.2273	0.0031	0.7696	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	0.008	5.0658	0.4004	0.0007	0.5989	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	0.0064	4.9342	0.424	0.0046	0.5715	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	0.0058	4.953	0.3362	0.0017	0.6621	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	0.0214	4.9211	0.3526	0.0013	0.6461	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	0.0039	5.0041	0.3901	0	0.6099	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	0.0132	4.9307	0.3134	0.0136	0.673	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	0.0179	4.9154	0.2992	0.0284	0.6725	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	0.0057	4.927	0.2364	0.0023	0.7614	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	0.0015	4.9299	0.2567	0	0.7433	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	0.019	4.9292	0.3637	0.0019	0.6345	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	0.0084	4.9359	0.369	0	0.631	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	0.0115	4.9495	0.44	0.002	0.5581	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	0.0027	4.9597	0.3395	0.0015	0.659	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	0.0045	4.976	0.3007	0	0.6993	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	0.0055	5.0161	0.2215	0	0.7785	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	0.0045	4.9272	0.3279	0.0042	0.6678	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	0.0213	4.9995	0.3983	0.0054	0.5963	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	0.0104	4.9347	0.3742	0	0.6258	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	0.0032	4.9278	0.2856	0.0011	0.7133	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	0.0034	4.9151	0.2273	0.0031	0.7696	1
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	0.008	5.0658	0.4004	0.0007	0.5989	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	0.0019	4.9231	0.2234	0.0038	0.7728	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	0.0028	4.9763	0.1815	0.0014	0.817	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	0.0062	4.9723	0.2255	0.0033	0.7712	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	0.0095	4.9771	0.2027	0.0001	0.7972	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	0.0066	4.9312	0.3746	0.001	0.6244	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	0.0162	4.9065	0.3703	0.0212	0.6084	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	0.0095	4.9016	0.3657	0.02	0.6143	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	0.0087	4.9447	0.2825	0	0.7175	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	0.0618	4.965	0.4283	0.005	0.5667	1

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Na+	Total	OH-	Cl-	F-	Total
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	0.0124	4.9089	0.3109	0.0785	0.6106	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	0.0068	4.9557	0.3169	0.0011	0.6819	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	0.0075	4.9562	0.3508	0.0175	0.6317	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	0.0029	4.9496	0.2785	0.0021	0.7194	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	0	4.937	0.2321	0.0027	0.7652	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	0.0237	5.0407	0.3802	0.0019	0.6179	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	0.0259	5.0654	0.3248	0.0013	0.6739	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	0.0142	4.937	0.3741	0.0013	0.6246	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	0.0126	4.9491	0.3344	0	0.6656	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	0.0148	4.9127	0.1904	0.0006	0.809	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	0.0019	4.9231	0.2234	0.0038	0.7728	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	0.0028	4.9763	0.1815	0.0014	0.817	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	0.0062	4.9723	0.2255	0.0033	0.7712	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	0.0095	4.9771	0.2027	0.0001	0.7972	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	0.0066	4.9312	0.3746	0.001	0.6244	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	0.0162	4.9065	0.3703	0.0212	0.6084	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	0.0095	4.9016	0.3657	0.02	0.6143	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	0.0087	4.9447	0.2825	0	0.7175	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	0.0618	4.965	0.4283	0.005	0.5667	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	0.0124	4.9089	0.3109	0.0785	0.6106	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	0.0068	4.9557	0.3169	0.0011	0.6819	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	0.0075	4.9562	0.3508	0.0175	0.6317	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	0.0029	4.9496	0.2785	0.0021	0.7194	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	0	4.937	0.2321	0.0027	0.7652	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	0.0237	5.0407	0.3802	0.0019	0.6179	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	0.0259	5.0654	0.3248	0.0013	0.6739	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	0.0142	4.937	0.3741	0.0013	0.6246	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	0.0126	4.9491	0.3344	0	0.6656	1
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	0.0148	4.9127	0.1904	0.0006	0.809	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	0.0035	4.9241	0.1863	0.0004	0.8133	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	0.0173	4.9125	0.1551	0	0.8449	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	0	4.914	0.334	0	0.666	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	0.0064	4.91	0.304	0	0.696	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	0.0081	4.9169	0.3649	0	0.6351	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	0.0044	4.9311	0.2658	0.0008	0.7334	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	0.0128	4.9498	0.2642	0	0.7358	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	0.0114	4.9472	0.3174	0.0003	0.6823	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	0.0069	4.9067	0.2672	0	0.7328	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	0.0022	4.9065	0.225	0.0004	0.7745	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	0.0086	4.9337	0.2329	0	0.7671	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	0.0044	4.9364	0.3158	0.003	0.6812	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	0	4.9447	0.2903	0.0011	0.7085	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	0.0215	5.0743	0.363	0.0003	0.6367	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	0.0061	4.9088	0.4574	0.002	0.5407	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	0.0042	4.9243	0.4206	0.0004	0.579	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	0.0051	4.9291	0.2871	0.0001	0.7128	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	0	4.9125	0.3085	0	0.6915	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	0.0034	4.9965	0.3397	0.0006	0.6598	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	0.0167	4.9128	0.1953	0.0016	0.8031	1

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Na+	Total	OH-	Cl-	F-	Total
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	0.0133	4.9153	0.1644	0.0011	0.8345	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	0.0035	4.9241	0.1863	0.0004	0.8133	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	0.0173	4.9125	0.1551	0	0.8449	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	0	4.914	0.334	0	0.666	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	0.0064	4.91	0.304	0	0.696	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	0.0081	4.9169	0.3649	0	0.6351	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	0.0044	4.9311	0.2658	0.0008	0.7334	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	0.0128	4.9498	0.2642	0	0.7358	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	0.0114	4.9472	0.3174	0.0003	0.6823	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	0.0069	4.9067	0.2672	0	0.7328	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	0.0022	4.9065	0.225	0.0004	0.7745	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	0.0086	4.9337	0.2329	0	0.7671	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	0.0044	4.9364	0.3158	0.003	0.6812	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	0	4.9447	0.2903	0.0011	0.7085	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	0.0215	5.0743	0.363	0.0003	0.6367	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	0.0061	4.9088	0.4574	0.002	0.5407	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	0.0042	4.9243	0.4206	0.0004	0.579	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	0.0051	4.9291	0.2871	0.0001	0.7128	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	0	4.9125	0.3085	0	0.6915	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	0.0034	4.9965	0.3397	0.0006	0.6598	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	0.0167	4.9128	0.1953	0.0016	0.8031	1
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	0.0133	4.9153	0.1644	0.0011	0.8345	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	0.0104	4.9758	0.3257	0.0014	0.6728	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	0	4.9766	0.2473	0	0.7527	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	0.0031	4.98	0.2319	0	0.7681	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	0.0063	4.9896	0.4512	0	0.5488	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	0.0013	4.9849	0.3766	0	0.6234	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	0.0191	4.9747	0.2802	0.0007	0.7191	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	0.0299	4.9787	0.2651	0.0113	0.7237	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	0.0335	4.9792	0.1981	0.0231	0.7788	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	0.0016	4.9783	0.1093	0.0001	0.8905	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	0.0207	4.9927	0.2751	0	0.7249	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	0.0102	4.9743	0.1841	0	0.8159	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	0.0045	4.9623	0.1563	0.0013	0.8425	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	0.0061	4.9597	0.2434	0	0.7566	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	0.0042	4.9565	0.1755	0.0011	0.8234	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	0.0162	5.019	0.1792	0.0004	0.8204	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	0.005	4.9598	0.2464	0	0.7536	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	0.0029	4.9417	0.2729	0.0008	0.7262	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	0.0109	4.9949	0.1655	0	0.8345	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	0.0051	4.9542	0.1831	0	0.8169	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	0.0007	4.9483	0.4466	0.0016	0.5518	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	0.0039	4.9534	0.3287	0	0.6713	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	0.0043	4.9582	0.3563	0.0069	0.6368	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	0.0104	4.9758	0.3257	0.0014	0.6728	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	0	4.9766	0.2473	0	0.7527	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	0.0031	4.98	0.2319	0	0.7681	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	0.0063	4.9896	0.4512	0	0.5488	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	0.0013	4.9849	0.3766	0	0.6234	1

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Na+	Total	OH-	Cl-	F-	Total
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	0.0191	4.9747	0.2802	0.0007	0.7191	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	0.0299	4.9787	0.2651	0.0113	0.7237	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	0.0335	4.9792	0.1981	0.0231	0.7788	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	0.0016	4.9783	0.1093	0.0001	0.8905	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	0.0207	4.9927	0.2751	0	0.7249	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	0.0102	4.9743	0.1841	0	0.8159	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	0.0045	4.9623	0.1563	0.0013	0.8425	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	0.0061	4.9597	0.2434	0	0.7566	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	0.0042	4.9565	0.1755	0.0011	0.8234	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	0.0162	5.019	0.1792	0.0004	0.8204	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	0.005	4.9598	0.2464	0	0.7536	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	0.0029	4.9417	0.2729	0.0008	0.7262	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	0.0109	4.9949	0.1655	0	0.8345	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	0.0051	4.9542	0.1831	0	0.8169	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	0.0007	4.9483	0.4466	0.0016	0.5518	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	0.0039	4.9534	0.3287	0	0.6713	1
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	0.0043	4.9582	0.3563	0.0069	0.6368	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	2	0.0124	4.9611	0.5137	0	0.4863	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	0.0047	4.9526	0.3731	0	0.6269	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	0.0053	4.9404	0.2391	0	0.7609	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	0.0037	4.9071	0.298	0	0.702	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	0.0041	4.9954	0.2942	0	0.7058	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	0.0034	4.9932	0.3454	0	0.6546	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	0.028	4.98	0.3374	0.011	0.6516	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	0.0003	4.9862	0.3485	0	0.6515	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	0	5.0006	0.3534	0	0.6466	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	0.0224	5.07	0.3254	0	0.6746	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	0.0169	5.0739	0.4262	0.0009	0.5729	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	0.0075	4.9886	0.2487	0.0017	0.7496	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	0.0081	4.9973	0.3714	0.0029	0.6258	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	0.0005	4.9298	0.3742	0.0006	0.6252	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	0.0047	4.9526	0.3731	0	0.6269	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	0.0053	4.9404	0.2391	0	0.7609	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	0.0037	4.9071	0.298	0	0.702	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	0.0041	4.9954	0.2942	0	0.7058	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	0.0034	4.9932	0.3454	0	0.6546	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	0.028	4.98	0.3374	0.011	0.6516	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	0.0003	4.9862	0.3485	0	0.6515	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	0	5.0006	0.3534	0	0.6466	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	0.0224	5.07	0.3254	0	0.6746	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	0.0169	5.0739	0.4262	0.0009	0.5729	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	0.0075	4.9886	0.2487	0.0017	0.7496	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	0.0081	4.9973	0.3714	0.0029	0.6258	1
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	0.0005	4.9298	0.3742	0.0006	0.6252	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	0.0132	4.9967	0.3033	0.0017	0.695	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	0.008	5.0465	0.2395	0.0024	0.7581	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	0.004	4.9339	0.29	0.0051	0.7049	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	0.001	4.94	0.1732	0	0.8268	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	0	4.9466	0.2755	0.0024	0.7221	1

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Na+	Total	OH-	Cl-	F-	Total
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	0.0075	4.9744	0.4435	0	0.5565	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	0.0052	4.9457	0.233	0	0.767	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	0.0145	4.9355	0.2794	0.0038	0.7168	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	0.0132	4.9967	0.3033	0.0017	0.695	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	0.008	5.0465	0.2395	0.0024	0.7581	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	0.004	4.9339	0.29	0.0051	0.7049	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	0.001	4.94	0.1732	0	0.8268	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	0	4.9466	0.2755	0.0024	0.7221	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	0.0075	4.9744	0.4435	0	0.5565	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	0.0052	4.9457	0.233	0	0.767	1
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	0.0145	4.9355	0.2794	0.0038	0.7168	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	0.028	5.0614	0.3727	0.0022	0.625	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	0.0148	4.9978	0.4413	0.0001	0.5586	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	0.0127	5.0032	0.4964	0	0.5036	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	0.0095	5.0111	0.2649	0.056	0.6791	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	0.0077	4.9851	0.2702	0.0617	0.6681	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	0.0109	5.0213	0.3049	0.0554	0.6396	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	0.0121	5.0077	0.4181	0.055	0.5269	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	0	4.9575	0.4119	0.0009	0.5873	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	0.0026	4.9535	0.4353	0.001	0.5637	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	0.0437	4.9894	0.3122	0.0013	0.6865	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	0	4.9575	0.4119	0.0009	0.5873	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	0.0026	4.9535	0.4353	0.001	0.5637	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	0.0437	4.9894	0.3122	0.0013	0.6865	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	0.0097	4.93	0.3194	0.001	0.6796	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	0.028	5.0614	0.3727	0.0022	0.625	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	0.0148	4.9978	0.4413	0.0001	0.5586	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	0.0127	5.0032	0.4964	0	0.5036	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	0.0095	5.0111	0.2649	0.056	0.6791	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	0.0077	4.9851	0.2702	0.0617	0.6681	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	0.0109	5.0213	0.3049	0.0554	0.6396	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	0.0121	5.0077	0.4181	0.055	0.5269	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	0	4.9575	0.4119	0.0009	0.5873	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	0.0026	4.9535	0.4353	0.001	0.5637	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	0.0437	4.9894	0.3122	0.0013	0.6865	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	0	4.9575	0.4119	0.0009	0.5873	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	0.0026	4.9535	0.4353	0.001	0.5637	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	0.0437	4.9894	0.3122	0.0013	0.6865	1
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	0.0097	4.93	0.3194	0.001	0.6796	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	0.006	4.9261	0.2844	0	0.7156	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	0.0003	4.9272	0.2975	0	0.7025	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	0.0045	4.9277	0.3411	0	0.6589	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	0.0056	4.9249	0.3379	0	0.6621	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	0.014	4.9414	0.4044	0	0.5956	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	0.0095	4.9458	0.4077	0.0014	0.5909	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	0.008	5.0258	0.2689	0.0062	0.725	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	0.0188	5.0029	0.4132	0	0.5868	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	0.0187	4.9947	0.4174	0.0016	0.581	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	0.0294	4.9571	0.3264	0	0.6736	1

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Na+	Total	OH-	Cl-	F-	Total
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	0.031	4.9751	0.3072	0.0009	0.6919	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	0.006	4.9261	0.2844	0	0.7156	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	0.0003	4.9272	0.2975	0	0.7025	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	0.0045	4.9277	0.3411	0	0.6589	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	0.0056	4.9249	0.3379	0	0.6621	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	0.014	4.9414	0.4044	0	0.5956	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	0.0095	4.9458	0.4077	0.0014	0.5909	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	0.008	5.0258	0.2689	0.0062	0.725	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	0.0188	5.0029	0.4132	0	0.5868	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	0.0187	4.9947	0.4174	0.0016	0.581	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	0.0294	4.9571	0.3264	0	0.6736	1
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	0.031	4.9751	0.3072	0.0009	0.6919	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	0.0052	4.9127	0.4301	0	0.5699	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	0.0018	4.9489	0.2625	0.0006	0.7369	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	0.0019	4.924	0.2827	0	0.7173	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	0.0013	4.9611	0.259	0.0016	0.7394	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	0.0034	4.9219	0.3171	0	0.6829	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	0.0411	4.964	0.2343	0	0.7657	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	0.012	4.9752	0.2097	0.0021	0.7882	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	0.0103	4.9381	0.219	0.0007	0.7803	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	0.0144	4.9446	0.2438	0.0013	0.7549	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	0.0165	4.9306	0.2696	0	0.7304	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	0.0109	4.9126	0.2671	0.0001	0.7328	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	0.007	4.9221	0.2903	0.0013	0.7085	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	0.0118	4.9082	0.319	0.0014	0.6796	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	0.0052	4.9127	0.4301	0	0.5699	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	0.0018	4.9489	0.2625	0.0006	0.7369	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	0.0019	4.924	0.2827	0	0.7173	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	0.0013	4.9611	0.259	0.0016	0.7394	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	0.0034	4.9219	0.3171	0	0.6829	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	0.0411	4.964	0.2343	0	0.7657	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	0.012	4.9752	0.2097	0.0021	0.7882	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	0.0103	4.9381	0.219	0.0007	0.7803	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	0.0144	4.9446	0.2438	0.0013	0.7549	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	0.0165	4.9306	0.2696	0	0.7304	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	0.0109	4.9126	0.2671	0.0001	0.7328	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	0.007	4.9221	0.2903	0.0013	0.7085	1
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	0.0118	4.9082	0.319	0.0014	0.6796	1
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	0.0181	5.0014	0.2269	0.0142	0.7589	1
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	0.0181	5.0014	0.2269	0.0142	0.7589	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	0.0135	4.9158	0.2237	0.0007	0.7756	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	0.0153	4.9661	0.3008	0.0013	0.6979	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	0.02	4.9876	0.2214	0.0023	0.7764	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	0.0065	4.9135	0.3053	0.0017	0.693	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	0.008	4.9216	0.259	0	0.741	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	0.0135	4.9158	0.2237	0.0007	0.7756	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	0.0153	4.9661	0.3008	0.0013	0.6979	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	0.02	4.9876	0.2214	0.0023	0.7764	1
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	0.0065	4.9135	0.3053	0.0017	0.693	1

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Na+	Total	OH-	Cl-	F-	Total
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	0.008	4.9216	0.259	0	0.741	1
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	0.0093	4.9095	0.2742	0.0014	0.7244	1
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	0.0207	4.9431	0.2608	0.0014	0.7378	1
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	0.0093	4.9095	0.2742	0.0014	0.7244	1
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	0.0207	4.9431	0.2608	0.0014	0.7378	1
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	0.0258	4.9032	0.2642	0.0123	0.7235	1
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	0.0258	4.9032	0.2642	0.0123	0.7235	1
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	0.002	5.0231	0.3664	0	0.6336	1
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	0.0085	4.9453	0.3168	0.0017	0.6814	1
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	0.002	5.0031	0.4706	0.0001	0.5293	1
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	0.0058	4.9549	0.3721	0	0.6279	1
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	0.002	5.0231	0.3664	0	0.6336	1
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	0.0085	4.9453	0.3168	0.0017	0.6814	1
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	0.002	5.0031	0.4706	0.0001	0.5293	1
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	0.0058	4.9549	0.3721	0	0.6279	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	0.0069	4.978	0.2361	0	0.7639	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	0.0035	4.9497	0.2248	0.0008	0.7744	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	0.0121	4.9599	0.1634	0.0026	0.834	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	0.0212	4.9518	0.2132	0	0.7868	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	0.0134	4.9977	0.2826	0.0003	0.7171	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	0.0148	5.0188	0.2859	0	0.7141	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	0.0061	5.0088	0.1485	0	0.8515	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	0.0052	4.9951	0.2571	0.0006	0.7423	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	0.0044	4.9452	0.3684	0.0003	0.6313	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	0.0044	4.9486	0.1162	0	0.8838	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	0.005	4.9324	0.3074	0	0.6926	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	0.0071	4.9479	0.2351	0	0.7649	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	0.0042	4.9553	0.2697	0.0001	0.7301	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	0.0052	4.9548	0.295	0	0.705	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	0.0147	4.9768	0.1946	0.0026	0.8028	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	0.0164	5.0183	0.2588	0	0.7412	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	0.0168	4.996	0.2435	0	0.7565	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	0.0314	4.9398	0.2325	0.001	0.7665	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	0.037	4.9943	0.2602	0	0.7398	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	0.0059	4.9596	0.1881	0	0.8119	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	0.0105	4.9401	0.2389	0.0013	0.7598	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	0.0055	4.9339	0.2882	0.0027	0.7092	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	0.0011	4.963	0.0847	0.0027	0.9126	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	0	4.9284	0.289	0.0017	0.7093	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	0	4.9444	0.2973	0	0.7027	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	0.007	4.9709	0.2789	0	0.7211	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	0.0069	4.978	0.2361	0	0.7639	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	0.0035	4.9497	0.2248	0.0008	0.7744	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	0.0121	4.9599	0.1634	0.0026	0.834	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	0.0212	4.9518	0.2132	0	0.7868	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	0.0134	4.9977	0.2826	0.0003	0.7171	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	0.0148	5.0188	0.2859	0	0.7141	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	0.0061	5.0088	0.1485	0	0.8515	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	0.0052	4.9951	0.2571	0.0006	0.7423	1

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Na+	Total	OH-	Cl-	F-	Total
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	0.0044	4.9452	0.3684	0.0003	0.6313	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	0.0044	4.9486	0.1162	0	0.8838	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	0.005	4.9324	0.3074	0	0.6926	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	0.0071	4.9479	0.2351	0	0.7649	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	0.0042	4.9553	0.2697	0.0001	0.7301	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	0.0052	4.9548	0.295	0	0.705	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	0.0147	4.9768	0.1946	0.0026	0.8028	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	0.0164	5.0183	0.2588	0	0.7412	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	0.0168	4.996	0.2435	0	0.7565	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	0.0314	4.9398	0.2325	0.001	0.7665	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	0.037	4.9943	0.2602	0	0.7398	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	0.0059	4.9596	0.1881	0	0.8119	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	0.0105	4.9401	0.2389	0.0013	0.7598	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	0.0055	4.9339	0.2882	0.0027	0.7092	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	0.0011	4.963	0.0847	0.0027	0.9126	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	0	4.9284	0.289	0.0017	0.7093	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	0	4.9444	0.2973	0	0.7027	1
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	0.007	4.9709	0.2789	0	0.7211	1

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Sr+Fe+Mn+Mg	R2+	R2 + P	R3+
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	0.0181	4.9251	7.9521	0.0027
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	0.0215	4.9462	7.966	0.0009
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	0.0262	4.8977	7.9331	0.0021
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	0.0375	4.9838	7.9797	0.0163
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	0.0411	4.8984	7.9249	0.0191
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	0.0445	4.8789	7.9126	0.0186
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	0.0486	4.9169	7.9464	0.0043
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	0.0127	4.9258	7.9536	0.0027
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	0.0287	4.8863	7.9136	0.024
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	0.0191	4.9107	7.9347	0.0167
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	0.019	4.923	7.9425	0.0151
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	0.0179	4.9545	7.9707	0.0024
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	0.0187	4.9693	7.9793	0.0022
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	0.0422	4.9803	7.9689	0.0304
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	0.0616	4.9113	7.939	0.0114
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	0.1381	4.9583	7.9588	0.0198
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	0.0401	4.9222	7.95	0.0021
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	0.0119	4.9181	7.9464	0.0065
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	0.0427	4.9108	7.9452	0.0009
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	0.0154	5.0344	8.005	0.0235
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	1	0.0181	4.9251	7.9521	0.0027
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	2	0.0215	4.9462	7.966	0.0009
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	3	0.0262	4.8977	7.9331	0.0021
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_1_apatite	4	0.0375	4.9838	7.9797	0.0163
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	1	0.0411	4.8984	7.9249	0.0191
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	2	0.0445	4.8789	7.9126	0.0186
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	3	0.0486	4.9169	7.9464	0.0043
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	4	0.0127	4.9258	7.9536	0.0027
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_2_apatite	5	0.0287	4.8863	7.9136	0.024
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	1	0.0191	4.9107	7.9347	0.0167
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_3_apatite	2	0.019	4.923	7.9425	0.0151
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	1	0.0179	4.9545	7.9707	0.0024
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	2	0.0187	4.9693	7.9793	0.0022
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	3	0.0422	4.9803	7.9689	0.0304
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	5	0.0616	4.9113	7.939	0.0114
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_4_apatite	6	0.1381	4.9583	7.9588	0.0198
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_5_apatite	1	0.0401	4.9222	7.95	0.0021
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_6_apatite	4	0.0119	4.9181	7.9464	0.0065
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	2	0.0427	4.9108	7.9452	0.0009
MOSTMEG	R#1	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#1_7_apatite	3	0.0154	5.0344	8.005	0.0235
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	0.0317	4.9159	7.946	0.0053
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	0.0172	4.9735	7.9835	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	0.0188	4.9648	7.9769	0.0014
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	0.0209	4.9631	7.9733	0.0045
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	0.0366	4.9212	7.9493	0.0035
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	0.0264	4.8876	7.9277	0.0027
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	0.0259	4.8915	7.9326	0.0006
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	0.0128	4.9216	7.9426	0.0144
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	0.1263	4.9009	7.9268	0.0024

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Sr+Fe+Mn+Mg	R2+	R2 + P	R3+
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	0.1251	4.8875	7.9246	0.009
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	0.0398	4.9473	7.9661	0.0015
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	0.0585	4.9408	7.9583	0.0078
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	0.0151	4.942	7.9618	0.0046
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	0.0303	4.9345	7.9592	0.0025
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	0.0141	4.9226	7.8921	0.0945
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	0.0181	4.9477	7.9083	0.0919
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	0.0662	4.9132	7.9393	0.0096
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	0.0706	4.9166	7.9355	0.02
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	0.0617	4.8848	7.9201	0.0132
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	1	0.0317	4.9159	7.946	0.0053
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_1_apatite	2	0.0172	4.9735	7.9835	0
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	1	0.0188	4.9648	7.9769	0.0014
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	2	0.0209	4.9631	7.9733	0.0045
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_2_apatite	3	0.0366	4.9212	7.9493	0.0035
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	1	0.0264	4.8876	7.9277	0.0027
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	2	0.0259	4.8915	7.9326	0.0006
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	3	0.0128	4.9216	7.9426	0.0144
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_3_apatite	4	0.1263	4.9009	7.9268	0.0024
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	1	0.1251	4.8875	7.9246	0.009
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	2	0.0398	4.9473	7.9661	0.0015
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_4_apatite	3	0.0585	4.9408	7.9583	0.0078
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	1	0.0151	4.942	7.9618	0.0046
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_5_apatite	2	0.0303	4.9345	7.9592	0.0025
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	1	0.0141	4.9226	7.8921	0.0945
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	2	0.0181	4.9477	7.9083	0.0919
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	3	0.0662	4.9132	7.9393	0.0096
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	4	0.0706	4.9166	7.9355	0.02
MOSTMEG	R#5	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R#5_6_apatite	5	0.0617	4.8848	7.9201	0.0132
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	0.0135	4.9195	7.9503	0.0012
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	0.0513	4.8824	7.9183	0.0129
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	0.0204	4.9112	7.945	0.0028
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	0.028	4.9012	7.938	0.0024
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	0.0201	4.906	7.9403	0.0029
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	0.0254	4.9229	7.9506	0.0037
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	0.0245	4.9261	7.9466	0.0108
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	0.0282	4.9263	7.9478	0.0095
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	0.0355	4.8975	7.9358	0.0022
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	0.0431	4.9031	7.9407	0.0011
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	0.0222	4.9246	7.9527	0.0006
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	0.0363	4.919	7.9427	0.013
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	0.066	4.9283	7.9472	0.0164
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	0.0409	4.9485	7.9022	0.1043
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	0.027	4.8967	7.9332	0.0059
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	0.0188	4.9008	7.9281	0.0192
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	0.0266	4.9138	7.9412	0.0101
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	0.0209	4.9102	7.9447	0.0023
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	0.0435	4.993	7.9951	0.0001
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	0.0438	4.8772	7.9117	0.0189

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Sr+Fe+Mn+Mg	R2+	R2 + P	R3+
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	0.0358	4.8766	7.9081	0.0254
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	2	0.0135	4.9195	7.9503	0.0012
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_1_apatite	4	0.0513	4.8824	7.9183	0.0129
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_2_apatite	1	0.0204	4.9112	7.945	0.0028
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	1	0.028	4.9012	7.938	0.0024
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	4	0.0201	4.906	7.9403	0.0029
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_3_apatite	5	0.0254	4.9229	7.9506	0.0037
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	1	0.0245	4.9261	7.9466	0.0108
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_4_apatite	2	0.0282	4.9263	7.9478	0.0095
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	1	0.0355	4.8975	7.9358	0.0022
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	3	0.0431	4.9031	7.9407	0.0011
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_5_apatite	4	0.0222	4.9246	7.9527	0.0006
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	1	0.0363	4.919	7.9427	0.013
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	2	0.066	4.9283	7.9472	0.0164
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	3	0.0409	4.9485	7.9022	0.1043
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	4	0.027	4.8967	7.9332	0.0059
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_6_apatite	5	0.0188	4.9008	7.9281	0.0192
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	1	0.0266	4.9138	7.9412	0.0101
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	2	0.0209	4.9102	7.9447	0.0023
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	3	0.0435	4.993	7.9951	0.0001
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	4	0.0438	4.8772	7.9117	0.0189
MOSTMEG	R#13	Portugal	CIZ	MP	BG_PT	R	Ru	MOSTMEG_lvo-R13_7_apatite	5	0.0358	4.8766	7.9081	0.0254
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	0.0558	4.9557	7.9656	0.0097
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	0.0466	4.9765	7.9859	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	0.0438	4.9715	7.979	0.0054
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	0.0286	4.9729	7.9762	0.0104
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	0.0217	4.9813	7.9872	0.0023
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	0.0653	4.9359	7.9459	0.0197
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	0.1259	4.9448	7.9585	0.0039
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	0.1395	4.9411	7.9552	0.0046
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	0.0194	4.9758	7.9846	0.0009
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	0.0412	4.9589	7.9633	0.0132
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	0.066	4.9593	7.9707	0.0046
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	0.0318	4.9574	7.9733	0.0004
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	0.0546	4.9531	7.9704	0.0005
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	0.0295	4.9499	7.9676	0.0025
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	0.0173	4.9407	7.9239	0.0621
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	0.0192	4.9534	7.9702	0.0013
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	0.0222	4.9337	7.9566	0.0051
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	0.0521	4.977	7.9798	0.007
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	0.0215	4.9462	7.965	0.0029
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	0.0318	4.9456	7.966	0.0019
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	0.0173	4.9467	7.9656	0.0027
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	0.0702	4.9376	7.9519	0.0163
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	1	0.0558	4.9557	7.9656	0.0097
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	2	0.0466	4.9765	7.9859	0
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	3	0.0438	4.9715	7.979	0.0054
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_1_apatite	4	0.0286	4.9729	7.9762	0.0104
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_2_apatite	1	0.0217	4.9813	7.9872	0.0023

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Sr+Fe+Mn+Mg	R2+	R2 + P	R3+
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	1	0.0653	4.9359	7.9459	0.0197
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	2	0.1259	4.9448	7.9585	0.0039
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	3	0.1395	4.9411	7.9552	0.0046
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	4	0.0194	4.9758	7.9846	0.0009
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	5	0.0412	4.9589	7.9633	0.0132
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_3_apatite	6	0.066	4.9593	7.9707	0.0046
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	1	0.0318	4.9574	7.9733	0.0004
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	2	0.0546	4.9531	7.9704	0.0005
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_4_apatite	3	0.0295	4.9499	7.9676	0.0025
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_5_apatite	1	0.0173	4.9407	7.9239	0.0621
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	1	0.0192	4.9534	7.9702	0.0013
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_6_apatite	2	0.0222	4.9337	7.9566	0.0051
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	1	0.0521	4.977	7.9798	0.007
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	2	0.0215	4.9462	7.965	0.0029
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	3	0.0318	4.9456	7.966	0.0019
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	4	0.0173	4.9467	7.9656	0.0027
MOSTMEG	P#15	Portugal	CIZ	MP	BG_PT	R	RI	MOSTMEG_lvo-P15_7_apatite	5	0.0702	4.9376	7.9519	0.0163
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	2	0.0923	4.9399	7.9562	0.0088
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	0.0413	4.9454	7.9648	0.0026
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	0.0102	4.9328	7.9573	0.0022
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	0.02	4.9033	7.9412	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	0.0185	4.9653	7.9627	0.026
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	0.0169	4.9819	7.9837	0.0079
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	0.0538	4.9388	7.9498	0.0131
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	0.0232	4.9857	7.9912	0.0002
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	0.0155	4.9986	7.998	0.0019
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	0.001	5.0019	7.9692	0.0458
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	0.0082	5.0105	7.975	0.0466
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	0.0161	4.9801	7.986	0.001
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	0.0266	4.9667	7.9649	0.0226
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	0.02	4.9256	7.953	0.0036
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	1	0.0413	4.9454	7.9648	0.0026
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_1_apatit	2	0.0102	4.9328	7.9573	0.0022
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_2_apatit	1	0.02	4.9033	7.9412	0
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	1	0.0185	4.9653	7.9627	0.026
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	2	0.0169	4.9819	7.9837	0.0079
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_3_apatit	3	0.0538	4.9388	7.9498	0.0131
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	1	0.0232	4.9857	7.9912	0.0002
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_6_apatit	2	0.0155	4.9986	7.998	0.0019
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	1	0.001	5.0019	7.9692	0.0458
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_7_apatit	2	0.0082	5.0105	7.975	0.0466
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	1	0.0161	4.9801	7.986	0.001
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_8_apatit	3	0.0266	4.9667	7.9649	0.0226
MOSTMEG	MT#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#12_9_apatit	1	0.02	4.9256	7.953	0.0036
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	0.0284	4.9801	7.9834	0.0033
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	0.0269	5.0239	8.004	0.0145
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	0.0648	4.916	7.9405	0.0139
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	0.0323	4.9358	7.9594	0.0031
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	0.0248	4.9331	7.9518	0.0135

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Sr+Fe+Mn+Mg	R2+	R2 + P	R3+
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	0.0241	4.9614	7.972	0.0055
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	0.0145	4.934	7.9554	0.0066
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	0.0412	4.9093	7.9357	0.0117
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_1_apatite	1	0.0284	4.9801	7.9834	0.0033
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	1	0.0269	5.0239	8.004	0.0145
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	2	0.0648	4.916	7.9405	0.0139
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_3_apatite	4	0.0323	4.9358	7.9594	0.0031
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	1	0.0248	4.9331	7.9518	0.0135
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	2	0.0241	4.9614	7.972	0.0055
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_4_apatite	3	0.0145	4.934	7.9554	0.0066
MOSTMEG	MT#1	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#1_5_apatite	1	0.0412	4.9093	7.9357	0.0117
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	0.0731	4.9175	7.8754	0.1159
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	0.0848	4.9747	7.9769	0.0083
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	0.0662	4.9681	7.9649	0.0224
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	0.0105	4.9851	7.9793	0.0165
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	0.0183	4.9696	7.9755	0.0079
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	0.0043	4.9948	7.9853	0.0157
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	0.0055	4.9773	7.973	0.0182
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	0.0229	4.9562	7.9729	0.0014
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	0.0229	4.9508	7.9699	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	0.0811	4.9268	7.936	0.0189
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	0.0229	4.9562	7.9729	0.0014
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	0.0229	4.9508	7.9699	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	0.0811	4.9268	7.936	0.0189
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	0.0248	4.9196	7.9494	0.0007
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_1_apatite	1	0.0731	4.9175	7.8754	0.1159
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	1	0.0848	4.9747	7.9769	0.0083
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_2_apatite	2	0.0662	4.9681	7.9649	0.0224
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	1	0.0105	4.9851	7.9793	0.0165
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	2	0.0183	4.9696	7.9755	0.0079
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	3	0.0043	4.9948	7.9853	0.0157
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_4_apatite	4	0.0055	4.9773	7.973	0.0182
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	1	0.0229	4.9562	7.9729	0.0014
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	2	0.0229	4.9508	7.9699	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_5_apatite	3	0.0811	4.9268	7.936	0.0189
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	1	0.0229	4.9562	7.9729	0.0014
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	2	0.0229	4.9508	7.9699	0
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_6_apatit	3	0.0811	4.9268	7.936	0.0189
MOSTMEG	MT#9	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-MT#9_9_apatite	1	0.0248	4.9196	7.9494	0.0007
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	0.0272	4.9167	7.9468	0.0035
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	0.0288	4.9161	7.9431	0.0107
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	0.0291	4.9173	7.9459	0.0059
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	0.0265	4.9142	7.9444	0.0051
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	0.0443	4.9175	7.9418	0.0099
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	0.0422	4.9185	7.9385	0.0178
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	0.0019	4.9862	7.9712	0.0316
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	0.0116	4.9567	7.9538	0.0275
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	0.027	4.9635	7.9669	0.0124
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	0.0289	4.8997	7.9171	0.028

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Sr+Fe+Mn+Mg	R2+	R2 + P	R3+
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	0.0263	4.9193	7.9305	0.0249
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	1	0.0272	4.9167	7.9468	0.0035
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_1_apatite	2	0.0288	4.9161	7.9431	0.0107
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	1	0.0291	4.9173	7.9459	0.0059
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	2	0.0265	4.9142	7.9444	0.0051
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	3	0.0443	4.9175	7.9418	0.0099
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_2_apatite	4	0.0422	4.9185	7.9385	0.0178
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_3_apatite	1	0.0019	4.9862	7.9712	0.0316
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	1	0.0116	4.9567	7.9538	0.0275
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_4_apatite	2	0.027	4.9635	7.9669	0.0124
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	1	0.0289	4.8997	7.9171	0.028
MOSTMEG	P#12	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P#12_5_apatite	2	0.0263	4.9193	7.9305	0.0249
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	0.0316	4.9059	7.9415	0.0016
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	0.0336	4.945	7.9654	0.0021
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	0.0267	4.9185	7.9486	0.0036
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	0.0494	4.959	7.9747	0.0008
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	0.0414	4.917	7.9486	0.0015
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	0.0355	4.8859	7.9011	0.0369
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	0.0417	4.9548	7.9655	0.0083
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	0.0494	4.9276	7.9544	0.0002
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	0.0434	4.93	7.955	0.0004
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	0.022	4.9121	7.9427	0.002
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	0.0453	4.9012	7.9382	0.0006
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	0.0252	4.9068	7.9377	0.0084
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	0.0336	4.8842	7.9209	0.0121
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_1_apatite	1	0.0316	4.9059	7.9415	0.0016
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	1	0.0336	4.945	7.9654	0.0021
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	3	0.0267	4.9185	7.9486	0.0036
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	4	0.0494	4.959	7.9747	0.0008
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_2_apatite	8	0.0414	4.917	7.9486	0.0015
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	1	0.0355	4.8859	7.9011	0.0369
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_3_apatite	3	0.0417	4.9548	7.9655	0.0083
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	1	0.0494	4.9276	7.9544	0.0002
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	2	0.0434	4.93	7.955	0.0004
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_4_apatite	3	0.022	4.9121	7.9427	0.002
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	1	0.0453	4.9012	7.9382	0.0006
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	2	0.0252	4.9068	7.9377	0.0084
MOSTMEG	P#5	Portugal	CIZ	MP	BG_PT	MT	MTu	MOSTMEG_lvo-P5_5_apatite	3	0.0336	4.8842	7.9209	0.0121
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	0.0299	4.9611	7.9597	0.0222
MOSTMEG	MT#10	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT10_7_apati	1	0.0299	4.9611	7.9597	0.0222
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	0.0384	4.8993	7.9351	0.003
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	0.0405	4.9472	7.9631	0.0037
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	0.0443	4.9609	7.9685	0.0067
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	0.0379	4.902	7.9369	0.0051
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	0.0348	4.9116	7.9442	0.002
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	1	0.0384	4.8993	7.9351	0.003
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	2	0.0405	4.9472	7.9631	0.0037
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_2_apatite	3	0.0443	4.9609	7.9685	0.0067
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_4_apatite	3	0.0379	4.902	7.9369	0.0051

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Sr+Fe+Mn+Mg	R2+	R2 + P	R3+
MOSTMEG	MT#11	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-MT11_6_apatite	1	0.0348	4.9116	7.9442	0.002
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	0.1323	4.8964	7.9337	0.0038
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	0.1007	4.9224	7.9493	0
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_2_apat	1	0.1323	4.8964	7.9337	0.0038
MOSTMEG	P-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-P-CONT1_7_apat	2	0.1007	4.9224	7.9493	0
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	0.1541	4.8682	7.9102	0.0093
MOSTMEG	ZEB-CONT#1	Portugal	CIZ	XM	BG_PT	MT	MTu	MOSTMEG_lvo-ZCONT1_5_apati	2	0.1541	4.8682	7.9102	0.0093
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	0.0094	4.9964	7.9826	0.0247
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	0.0419	4.9352	7.9585	0.0016
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	0.0448	4.9898	7.9867	0.0114
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	0.0548	4.9483	7.9673	0.0008
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	1	0.0094	4.9964	7.9826	0.0247
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_3_apatite	2	0.0419	4.9352	7.9585	0.0016
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_5_apatite	1	0.0448	4.9898	7.9867	0.0114
MOSTMEG	P#2	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P#2_6_apatite	3	0.0548	4.9483	7.9673	0.0008
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	0.0286	4.9663	7.9755	0.0048
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	0.0307	4.9412	7.961	0.005
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	0.0503	4.9456	7.9636	0.0022
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	0.0314	4.924	7.9462	0.0066
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	0.0142	4.9666	7.9667	0.0177
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	0.0018	4.9765	7.9664	0.0275
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	0.0171	4.9714	7.9628	0.0314
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	0.0229	4.9899	7.9929	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	0.0296	4.9406	7.9634	0.0001
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	0.0401	4.9373	7.9573	0.007
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	0.0136	4.9228	7.9499	0.0046
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	0.0096	4.9384	7.9602	0.0024
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	0.0211	4.9495	7.9679	0.0016
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	0.0149	4.9485	7.9674	0.0011
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	0.0253	4.9548	7.9656	0.0073
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	0.0024	4.9731	7.9633	0.0289
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	0.0155	4.9745	7.9785	0.0047
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	0.0504	4.9004	7.9291	0.008
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	0.0472	4.9373	7.943	0.0201
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	0.0448	4.9529	7.9701	0.0006
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	0.0258	4.9263	7.9517	0.0033
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	0.0377	4.9285	7.956	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	0.0253	4.9602	7.9749	0.0017
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	0.016	4.9256	7.9537	0.0028
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	0.0188	4.9444	7.9667	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	0.016	4.9615	7.9741	0.0024
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	1	0.0286	4.9663	7.9755	0.0048
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	2	0.0307	4.9412	7.961	0.005
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	3	0.0503	4.9456	7.9636	0.0022
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_1_apatite	4	0.0314	4.924	7.9462	0.0066
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	1	0.0142	4.9666	7.9667	0.0177
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	3	0.0018	4.9765	7.9664	0.0275
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	4	0.0171	4.9714	7.9628	0.0314
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_2_apatite	5	0.0229	4.9899	7.9929	0

Reference	Sample	Country	Location1	Type	id	id2	id3	Group	Point	Sr+Fe+Mn+Mg	R2+	R2 + P	R3+
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	2	0.0296	4.9406	7.9634	0.0001
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_3_apatite	3	0.0401	4.9373	7.9573	0.007
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	1	0.0136	4.9228	7.9499	0.0046
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	2	0.0096	4.9384	7.9602	0.0024
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	3	0.0211	4.9495	7.9679	0.0016
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	4	0.0149	4.9485	7.9674	0.0011
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_4_apatite	5	0.0253	4.9548	7.9656	0.0073
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	1	0.0024	4.9731	7.9633	0.0289
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	2	0.0155	4.9745	7.9785	0.0047
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	3	0.0504	4.9004	7.9291	0.008
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_5_apatite	4	0.0472	4.9373	7.943	0.0201
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_6_apatite	1	0.0448	4.9529	7.9701	0.0006
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	1	0.0258	4.9263	7.9517	0.0033
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	2	0.0377	4.9285	7.956	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_7_apatite	3	0.0253	4.9602	7.9749	0.0017
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	1	0.016	4.9256	7.9537	0.0028
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	2	0.0188	4.9444	7.9667	0
MOSTMEG	P#4	Portugal	CIZ	MP	BG_PT	MT	MTI	MOSTMEG_lvo-P4_9_apatite	3	0.016	4.9615	7.9741	0.0024