

Table 1

Major and trace element contents and Fe/Mn in HSDP-2 high-CaO group glasses.

	SR684	SR686	SR689	SR697	SR698	SR699	SR700	Uncertainty	BHVO-2g	BHVO-2g GeoREM	BCR-2g	BCR-2g GeoREM
Depth (mbsl ^a)	1766.5	1771.5	1779.4	1800.1	1802.5	1805.7	1807.6					
Unit	248	248	248	254	255	256	256					
e-probe analyses (wt%) from Stolper et al. (2004)												
SiO ₂	48.19	48.83	48.80	49.12	49.12	49.19	49.77					
TiO ₂	2.63	2.62	2.70	2.74	2.60	2.43	2.55					
Al ₂ O ₃	13.12	13.65	13.81	13.72	13.9	13.3	13.6					
FeO _T	11.03	11.29	11.58	11.71	11.14	10.83	10.94					
MnO	0.18	0.17	0.18	0.20								
MgO	8.03	7.21	6.90	6.83	7.13	7.8	7.26					
CaO	13.15	12.45	12.24	11.81	12.07	12.69	12.46					
Na ₂ O	2.27	2.36	2.37	2.40	2.31	2.13	2.29					
K ₂ O	0.74	0.72	0.73	0.77	0.66	0.56	0.60					
P ₂ O ₅	0.31	0.25	0.27	0.29	0.25	0.19	0.20					
Total	99.65	99.55	99.58	99.59	99.18	99.12	99.67					
	CalTech	CalTech	UHawaii	UHawaii	UHawaii	UHawaii	UHawaii					
LA-ICP-MS analyses												
Major element content (%)												
SiO ₂	47.6	48.2	49.0	49.5	48.4	49.6	49.4	0.3				
TiO ₂	2.73	2.85	2.56	2.56	2.80	2.45	2.57	0.03				
Al ₂ O ₃	12.3	12.6	12.5	14.3	13.4	12.6	12.8	0.2				
FeO _T	11.4	11.2	10.8	10.4	11.0	10.3	10.7	0.2				
MnO	0.176	0.169	0.171	0.161	0.171	0.164	0.169	0.003				
MgO	8.71	7.65	8.30	6.64	7.21	8.18	7.73	0.09				
CaO	13.9	14.2	13.6	13.3	13.8	13.4	13.5	0.2				
Trace element abundance (ppm)												
Sc	41.7	43.4	40.0	32.9	38.5	40.8	40.4	0.9	35.1	33 ± 2	35.7	33 ± 2
V	413	408	387	370	385	362	371	7	303	308 ± 19	414	425 ± 18
Cr	370	255	330	366	413	642	391	21	311	293 ± 12	16	17 ± 2
Co	48.6	46.0	46.7	40.7	42.8	45.4	44.6	0.8	44.0	44 ± 2	38.0	38 ± 2
Ni	200	138	150	103	98	135	115	5	126	116 ± 7	9	13 ± 2
Cu	181	165	152	154	179	169	161	4	121	127 ± 11	15	21 ± 5
Zn	177	116	104	97	257	210	153	6	98	102 ± 6	136	125 ± 5
Ga	21.3	20.0	19.8	20.5	20.3	19.4	19.0	0.5	19.9	22 ± 3	20.9	23 ± 1
Ge	1.1	1.2	1.2	1.2	1.1	1.1	1.2	0.1	1.3	1.6 ± 0.1	1.3	1.5 ± 0.1
Fe/Mn		63.8	63.7	63.5	63.9	64.4	63.5		65.4	67	63.2	62
2-stdev, relative		1.3%	0.8%	1.3%	1.9%	1.4%	1.0%		0.6%		1.9%	
n		5	4	4	5	5	6		9		2	

^a mbsl: meters below sea level.