

Sample	KHO3 3		KHO3 4		KHO3 10		KHO3 24		KHO3 25	
	Spinel	2 s.e.	Spinel	2 s.e.	Spinel	2 s.e.	Spinel	2 s.e.	Spinel	2 s.e.
Rb	0.038	0.007	0.049	0.037	0.180	0.171	0.012	0.003	0.002	0
Ba	1.479	0.006	0.000	0.014	1.210	0.393	0.137	0.021	0.001	0.001
Th	0.031	0.002	0.002	0.002	0.009	0.006	0.127	0.008	0.002	0
U	0.001	0.003	0.025	0.008	0.011	0.005	0.028	0.005	0	0
Nb	0.036	0.009	0.151	0.104	0.523	0.444	0.375	0.046	0.010	0.001
Ta	0.001	0.002	0	0.001	0.008	0.008	0	0.003	0	0
La	0.009	0.132	0	0.002	0.015	0.014	0	0.002	0	0
Ce	0.019	0.001	0	0.002	0.330	0.087	0.009	0.002	0.001	0
Pr	0.003	0.002	0.006	0.005	0	0.009	0.004	0.002	0	0
Sr	0.472	0.055	0	0.006	0.710	0.211	0.058	0.009	0	0
Nd	0.008	0	0.009	0.010	0.030	0.044	0.012	0.012	0	0
Zr	0.052	0.002	0.132	0.094	0.622	0.547	0.327	0.042	0.008	0.001
Hf	0.002	0	0	0.005	0.000	0.031	0	0.012	0	0
Sm	0.002	0.003	0	0.009	0.010	0.041	0	0.014	0	0
Eu	0.001	0.002	0.006	0.003	0.034	0.019	0	0.004	0	0
Ti	277.8	44.03	1236	916.6	3831	3498	861.4	95.97	60.10	7.353
Gd	0.003	0.001	0	0.010	0	0.041	0	0.016	0	0
Tb	0	0.002	0	0.003	0	0.018	0	0.003	0	0
Dy	0.003	0.001	0	0.006	0.020	0.034	0	0.010	0	0
Ho	0.001	0.002	0	0.001	0.009	0.008	0	0.003	0	0
Er	0.002	0	0	0.004	0.030	0.025	0	0.008	0	0
Yb	0.003	0	0	0.007	0.076	0.049	0	0.012	0	0
Lu	0.001	0.003	0	0.001	0.021	0.011	0.003	0.003	0	0
Sc	-	-	-	-	-	-	0.475	0.054	-	-
V	130.9	22.31	483.5	326.6	1526	1142	382.5	44.90	30.08	3.860
Cr	19936	19768	51167	13487	38040	3648	59368	7044	6504	4295
Co	79.15	11.97	290.2	203.4	972	817			15.23	1.787
Ni	1139.5	212.7	4078	2963	15199	13703	2013	235.6	189.6	26.22
Cu	1.763	0.420	4.025	2.840	13.33	10.94	5.664	1.184	0.241	0.042
Zn	260.7	46.24	703.1	338.3	1632	802.4	597.2	63.23	8.370	1.160

Sample	KHO3 27		KH96 1		KH96 2		KH96 8		KH96 18	
	Spinel	2 s.e.	Spinel	2 s.e.	Spinel	2 s.e.	Spinel	2 s.e.	Spinel	2 s.e.
Rb	0	0	0.002	0.002	0.010	0.006	0.008	0.002	0.004	0.003
Ba	0	0	0	0.006	0.029	0.023	0.084	0.014	0	0.009
Th	0	0	0.001	0	0.041	0.004	0.003	0.001	0.050	0.007
U	0	0	0	0	0.006	0.002	0.002	0.000	0.005	0.002
Nb	0.004	0.001	0.067	0.007	0.106	0.014	0.109	0.012	0.051	0.008
Ta	0	0	0	0.001	0.003	0.001	0.013	0.002	0	0.001
La	0	0	0.001	0.001	0.000	0.003	0.021	0.003	0.003	0.001
Ce	0	0	0	0.001	0.008	0.004	0.060	0.008	0.006	0.002
Pr	0	0	0.001	0.001	0.000	0.002	0.009	0.001	0	0.001
Sr	0.001	0	0.006	0.002	0.029	0.006	0.456	0.043	0.025	0.004
Nd	0	0	0	0.003	0.000	0.013	0.050	0.008	0	0.005
Zr	0.004	0.001	0.056	0.008	0.093	0.015	0.991	0.107	0.042	0.009
Hf	0	0	0	0.002	0.000	0.008	0.031	0.005	0	0.003
Sm	0	0	0	0.004	0.000	0.015	0.020	0.005	0	0.006
Eu	0	0	0	0.001	0.000	0.004	0.008	0.002	0.002	0.002
Ti	50.19	5.480	696.5	56.35	621.4	93.59	443.9	83.53	469.4	55.57
Gd	0	0	0	0.003	0.000	0.014	0.030	0.006	0	0.006
Tb	0	0	0	0.001	0.000	0.003	0.006	0.001	0.001	0.001
Dy	0	0	0	0.002	0.000	0.009	0.067	0.010	0	0.004
Ho	0	0	0	0.001	0.000	0.002	0.017	0.003	0.001	0.001
Er	0	0	0	0.002	0.000	0.007	0.060	0.009	0	0.003
Yb	0	0	0	0.003	0.000	0.010	0.085	0.012	0	0.004
Lu	0	0	0	0.001	0.000	0.002	0.015	0.002	0	0.001
Sc			0.326	0.031	0.637	0.065	11.40	1.210	0.358	0.048
V	18.10	2.020	322.6	23.89	446.2	37.50	53.10	5.120	351.6	35.71
Cr	2507	1160	2344	226.52	2198	219.0	-	-	2616	420.1
Co	9.843	1.040	2.036	0.199	1.995	0.210	-	-	1.625	0.270
Ni	134.5	15.86	600.6	60.43	691.1	86.09	410.4	48.94	630.3	108.0
Cu	0.146	0.021	-	-	-	-	1.843	0.201	-	-
Zn	34.97	4.147	-	-	-	-	18.48	2.830	-	-

Sample	KH96	24
	Spinel	2 s.e.
Rb	0.009	0.003
Ba	0.104	0.017
Th	0.001	0.001
U	0.002	0.001
Nb	0.067	0.006
Ta	0.003	0.001
La	0.008	0.001
Ce	0.014	0.002
Pr	0.005	0.001
Sr	0.120	0.008
Nd	0.012	0.005
Zr	0.106	0.010
Hf	0	0.003
Sm	0	0.005
Eu	0.002	0.001
Ti	835.9	39.80
Gd	0	0.006
Tb	0	0.001
Dy	0.007	0.003
Ho	0	0.001
Er	0	0.002
Yb	0	0.004
Lu	0.001	0.001
Sc	0.534	0.033
V	401.6	16.91
Cr	2036	123.1
Co	2.315	0.160
Ni	-	-
Cu	-	-
Zn	-	-

Table B.1.5.4. Trace element concentrations in Kilbourne Hole spinel by LA ICP-MS.
All concentrations expressed in ppm.