

**KB263 LA-ICP-MS U-Pb analysis**

datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikeg68	6D01		6	6	40	89.2	10	13211	29206	2-26-02		0.18790	20.79286	3.67	0.58502	3.24	0.25782	2.14	3232	68	97.4
kikeg69	6D02		6	6	40	73	10	24556	57023	2-26-02		0.18920	19.28121	3.30	0.52973	2.85	0.26492	1.80	3276	58	93.9
kikeg70	6D03		6	6	40	43.3	10	42904	98669	2-26-02		0.22540	28.77505	4.56	0.69418	4.18	0.29996	2.69	3470	84	99.9
kikeg71	6D04		6	6	30	83.8	10	70406	86548	2-26-02		0.31510	14.43893	5.83	0.40320	5.30	0.26055	3.68	3250	116	86.1
kikeh01	6D05		5	6	60	54.1	72.4	47927	292569	2-27-02		0.08500	18.85873	3.95	0.51629	3.50	0.26420	3.28	3270	104	93.4
kikeh02	6D06		5	6	60	56.8	10	41226	115537	2-27-02		0.15780	25.85505	5.37	0.68938	4.50	0.27102	5.37	3310	168	101.5
kikeh03	6D07		5	6	60	71.6	86.2	120021	205963	2-27-02		0.25780	16.11659	4.33	0.52070	10.71	0.22446	4.72	3012	152	96.4
kikeh04	6C01		5	6	60	79.7	10	102784	176127	2-27-02		0.16800	21.43407	3.05	0.59875	2.87	0.25732	1.93	3230	62	98.4
kikeh05	6C02		5	6	60	78.4	10	168256	189999	2-27-02		0.17660	18.09080	3.30	0.49373	3.50	0.26451	1.56	3272	50	92.1
kikeh06	6C03	thin	5	6	60	29.8	10	176093	182375	2-27-02		0.26530	13.90414	6.61	0.36432	5.74	0.27645	7.89	3342	248	82.6
kikeh07	6C04	zoned	5	6	60	64.9	10	179483	369607	2-27-02		0.23960	18.94850	2.64	0.50093	2.54	0.27434	1.61	3330	52	91.9
kikeh08	6C05		5	6	60	67.6	10	190356	323576	2-27-02		0.23200	17.71301	4.61	0.49709	5.79	0.25809	5.00	3234	158	92.6
kikeh09	6C06	zoned	5	6	60	54.1	43	314393	468912	2-27-02		0.14540	8.76012	3.09	0.22445	2.62	0.28401	2.45	3384	76	68.9
kikeh10	6C07		5	6	60	70.3	10	292608	229365	2-27-02		0.25490	16.56151	3.19	0.47136	3.58	0.25342	2.06	3206	66	91.4
kikeh11	6C08	zoned	5	6	60	91.9	10	37940	99818	2-27-02		0.17830	29.02074	2.93	0.67229	3.02	0.31189	1.64	3530	50	98.4
kikeh12	6C09	incl	5	6	60	75.7	10	157427	271753	2-27-02	x	0.17250	3.77633	2.80	0.25805	3.57	0.10631	2.16	1736	80	92.4
kikeh13	6C10		5	6	60	29.8	10	94560	192514	2-27-02		0.15900	23.88750	8.59	0.63974	6.72	0.26978	6.99	3304	220	99.4
kikeh14	6C11		5	6	60	43.3	10	48638	307930	2-27-02		0.10930	18.83393	7.52	0.45312	5.20	0.30154	3.76	3478	116	87.8
kikeh15	6C12		5	6	60	17.6	10	70312	268712	2-27-02	x	0.14650	22.30656	5.67	0.53117	4.97	0.30457	6.37	3492	198	92.1
kikeh16	6C13		5	6	40	68.9	10	118101	159403	2-27-02		0.30850	16.56014	3.86	0.43997	3.82	0.27401	2.44	3328	76	88.0
kikeh17	6C14		5	6	40	50	10	104791	202085	2-27-02	x	0.25720	2.00655	4.31	0.15715	3.53	0.09229	3.44	1472	130	76.8
kikeh18	6C15		5	6	40	39.2	10	146527	158998	2-27-02		0.30220	16.67009	3.86	0.47328	3.99	0.25577	2.77	3220	86	91.1
kikeh19	6C16		5	6	40	67.6	10	74362	118874	2-27-02		0.30460	14.18060	3.96	0.37930	4.29	0.27143	2.26	3314	70	83.9
kikeh20	6C17	thin	5	6	40	27	10	90296	115176	2-27-02		0.24710	15.57259	4.46	0.42854	5.72	0.26290	6.41	3264	202	87.9
kikeh21	6C18	thin	5	6	40	17.6	10	44979	42198	2-27-02	x	0.22060	17.04083	5.60	0.47395	5.77	0.26032	7.11	3248	226	91.0
kikeh22	6C19	core	5	6	40	20.3	10	174754	145025	2-27-02	x	0.29530	8.65526	16.04	0.24989	15.48	0.25097	6.44	3190	204	72.8
kikeh23	6C20	core	5	6	40	48.7	10	69430	149258	2-27-02		0.20050	14.86836	4.53	0.41818	4.12	0.25934	3.20	3242	102	87.2
kikeh24	6C21	rim	5	6	40	44.6	10	52850	63519	2-27-02		0.15640	13.22167	3.23	0.37507	3.56	0.25428	3.64	3210	116	84.6
kikeh25	6C22		5	6	40	25.7	10	68847	90473	2-27-02		0.19070	14.53918	6.09	0.41741	9.58	0.25378	7.61	3208	240	87.4
kikeh26	6C23		5	6	40	32.5	10	31712	58763	2-27-02		0.17020	16.89696	3.42	0.49680	2.77	0.24707	4.24	3166	134	93.1
kikeh27	6C24		5	6	40	20.3	10	84218	80985	2-27-02	x	0.26870	11.83566	8.29	0.31920	8.66	0.26979	4.83	3304	152	79.0
kikeh28	6C25		5	6	40	35.1	10	154217	307520	2-27-02	x	0.23700	0.44365	4.54	0.04579	2.76	0.07016	4.86	932	198	40.7
kikeh29	6C26	incl	5	6	40	29.8	10	93138	224323	2-27-02	x	0.23090	0.66268	12.77	0.05146	4.57	0.09311	9.75	1490	372	35.2
kikeh30	6C27		5	6	40	54.1	10	54512	99779	2-27-02		0.18280	20.10274	3.74	0.56246	3.64	0.25871	3.53	3238	110	96.2
kikeh31	6C28	thin	5	6	40	29.8	10	109810	98635	2-27-02		0.20190	19.80894	4.59	0.49286	7.23	0.29076	5.28	3420	164	90.7
kikeh32	6C29	core	5	6	40	33.8	10	174004	104330	2-27-02		0.40540	9.58989	9.24	0.23472	4.75	0.29576	8.69	3448	270	70.0
kikeh33	6C30	rim	5	6	40	39.2	10	86728	79216	2-27-02		0.22470	10.56283	6.22	0.30730	4.23	0.24785	5.64	3170	178	79.0
kikeh34	6C31	core	5	6	40	37.9	10	242940	146742	2-27-02		0.23580	8.29188	8.78	0.22627	5.46	0.26389	7.53	3270	236	69.8
kikeh35	6C32		5	6	40	62.2	10	49282	91633	2-27-02		0.17760	20.90810	2.79	0.57754	2.71	0.26171	2.94	3256	92	96.9
kikeh36	6C33		5	6	40	36.5	10	27101	68057	2-27-02		0.12770	17.01878	4.23	0.49181	4.03	0.24944	4.94	3180	156	92.9
kikeh37	6C34		5	6	40	28.4	10	22272	63500	2-27-02		0.13710	20.61087	5.24	0.55258	4.62	0.27017	5.82	3306	182	95.0
kikeh38	6C35		5	6	40	24.3	10	59426	55231	2-27-02		0.21120	16.58993	6.10	0.45062	5.87	0.26614	3.25	3282	102	89.3
kikeh39	6C36	core	5	6	40	27	347.1	267903	372864	2-27-02		0.65440	7.04689	5.30	0.19814	4.49	0.25553	4.64	3218	146	66.3
kikeh40	6C37		5	6	40	102.7	10	218340	177048	2-27-02		0.27010	5.63823	4.29	0.17011	3.83	0.23954	2.15	3116	68	62.2
kikeh41	6C38		5	6	40	32.5	10	90236	57373	2-27-02		0.24750	17.14422	5.39	0.51571	5.22	0.24084	5.83	3124	186	94.8
kikeh42	6C39		5	6	40	25.7	10	445590	948942	2-27-02	x	0.25020	0.39915	7.01	0.04176	5.29	0.06952	5.80	914	238	38.0
kikeh43	6C40		5	6	40	28.4	10	229165	582707	2-27-02	x	0.22300	1.00264	74.24	0.04589	4.46	0.15837	63.66	2438	2728	29.3
kikeh44	6C41	thin	5	6	40	20.3	10	73479	83205	2-27-02	x	0.14840	18.90430	6.71	0.57917	10.91	0.23573	6.64	3090	212	98.9

datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikeh45	6C42		5	6	40	51.4	10	43547	30420	2-27-02	x	0.53530	2.39581	8.09	0.20074	3.10	0.08617	7.73	1340	300	93.7
kikeh46	6C43		5	6	40	56.8	10	75677	119139	2-27-02		0.28690	21.11390	3.34	0.57859	3.31	0.26340	3.25	3266	102	96.8
kikeh47	6C44		5	6	40	27	42.6	149111	339203	2-27-02		0.09390	16.62315	5.89	0.47750	4.53	0.25281	4.75	3202	150	91.6
kikeh48	6C45	thin	5	6	40	28.4	10	560	790	2-27-02	x	-0.40250	11.02970	36.44	0.37248	17.33	0.21461	87.22	2940	3914	86.5
kikeh49	6C46	dirty	5	6	40	93.3	44.8	125360	228628	2-27-02		0.21050	8.95749	4.66	0.30998	4.29	0.20962	2.96	2902	96	81.0
kikeh50	6C47		5	6	40	27.1	10	52389	131044	2-27-02	x	0.36250	1.10662	12.03	0.07152	6.13	0.11203	9.10	1832	332	41.9
kikeh51	6C48		5	6	40	39.2	10	110072	124171	2-27-02		0.15290	10.18220	6.50	0.39331	4.61	0.18846	3.54	2728	116	90.5
kikeh52	6C49		5	6	40	31.1	84.8	540110	315618	2-27-02		0.48650	5.95781	13.15	0.16243	9.40	0.26492	11.01	3276	348	60.7
kikeh53	6C50		5	6	40	77.1	10	136010	283783	2-27-02	x	0.31500	1.25293	42.18	0.04320	13.85	0.21057	43.18	2908	1526	28.7
kikeh54	6C51		5	6	40	39.2	10	47228	182228	2-27-02		0.06440	9.60929	6.93	0.27888	4.64	0.24930	4.36	3180	138	76.0
kikeh55	6C52		5	6	40	39.2	10	117354	165712	2-27-02		0.21230	11.70130	4.31	0.41952	3.45	0.20119	3.84	2834	126	91.7
kikeh56	6C53		5	6	40	50	10	52173	97591	2-27-02		0.20780	13.43168	12.28	0.41002	3.85	0.23765	11.40	3104	366	88.0
kikeh57	6C54	thin	5	6	40	24.4	10	55097	88842	2-27-02		0.19180	18.58756	6.32	0.49162	7.11	0.27357	7.86	3326	248	91.4
kikeh58	6C55		5	6	40	47.3	10	31034	52240	2-27-02		0.20430	18.58433	3.24	0.52243	3.56	0.25745	4.02	3230	126	94.1
kikeh59	6C56		5	6	40	31.1	10	55050	78591	2-27-02		0.22940	21.87399	4.76	0.60490	3.53	0.26086	3.81	3250	120	98.4
kikeh60	6C57		5	6	40	40.6	10	51290	81150	2-27-02		0.21060	21.39271	4.20	0.59722	3.91	0.25935	2.94	3242	94	98.0
kikeh61	6C58		5	6	40	32.5	10	45979	72696	2-27-02		0.21320	20.08755	5.20	0.55843	5.59	0.26100	3.26	3252	102	95.8
kikeh62	6C59	core	5	6	40	31.1	10	58860	103708	2-27-02		0.22830	14.43736	5.34	0.41357	5.45	0.25241	3.58	3198	112	87.5
kikeh63	6C60		5	6	40	29.8	10	69732	106431	2-27-02		0.16730	18.35912	6.79	0.48691	7.52	0.27379	5.26	3326	164	91.0
kikeh64	6D08	core	5	6	40	36.5	209.8	1080736	254444	2-27-02	x	0.46970	5.95967	11.96	0.20400	9.83	0.21119	4.34	2914	140	68.2
kikeh65	6D69		5	6	60	125.7	298.3	51702	285856	2-27-02		0.25410	10.56156	4.06	0.33398	3.42	0.23017	2.01	3052	64	82.0

**KB264 LA-ICP-MS**

KB264	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikep01	2A04		8	6	60	41.9	164.9	207629	493074	31-10-02		0.15040	21.84802	1.58	0.62266	1.81	0.25508	1.35	3216	42	99.4
kikep02	2A11		8	6	60	64.9	68.9	310232	600920	31-10-02		0.20580	24.25637	1.56	0.66826	1.24	0.26333	1.29	3266	40	101.0
kikep03	2A13		8	6	60	63.7	249.6	702193	1E+06	31-10-02		0.23210	14.19118	1.70	0.39763	1.52	0.25946	0.75	3242	24	85.8
kikep04	2A14		8	6	60	49	98.8	260396	651165	31-10-02		0.18050	22.61742	1.83	0.62650	2.00	0.26247	1.26	3260	40	99.1
kikep05	2A17		8	6	60	67.6	43.3	205566	537928	31-10-02		0.15390	23.70561	1.58	0.65645	1.34	0.26170	1.10	3256	36	100.6
kikep06	2A25		8	6	60	43.3	51.5	371452	896406	31-10-02		0.16310	25.12279	1.89	0.70253	1.86	0.25912	1.13	3240	36	102.9
kikep07	2A05		8	6	60	70.3	36.5	226690	583735	31-10-02		0.15560	23.05195	1.37	0.64512	1.53	0.25966	1.10	3244	34	100.2
kikep08	2B07		8	6	60	96	140.7	430615	607567	31-10-02		0.20080	18.22771	3.15	0.51754	3.18	0.25571	1.57	3220	50	93.8
kikep09	2B25		8	6	60	82.4	55.1	245149	474186	31-10-02		0.19070	25.44168	3.82	0.69235	3.93	0.26652	1.56	3284	48	101.9
kikep10	2B42		8	6	60	67.6	76.8	365353	732346	31-10-02		0.19770	25.33369	3.04	0.68486	3.09	0.26833	1.85	3296	58	101.4
kikep11	2B44		8	6	60	60.8	93	295154	573298	31-10-02		0.18720	23.69013	4.76	0.68726	4.38	0.25018	2.04	3184	64	102.9
kikep12	2B59		8	6	60	79.8	60.2	314410	701639	31-10-02		0.20120	20.61783	4.26	0.56880	4.18	0.26302	2.43	3264	76	96.2
kikep13	2B46		8	6	60	89.2	55.1	259611	564818	31-10-02		0.16320	23.45414	3.53	0.65952	3.27	0.25776	1.75	3232	56	101.1
kikep14	2B45		8	6	60	75.7	48	261310	624476	31-10-02		0.16930	24.21619	4.65	0.66960	4.59	0.26249	1.64	3260	52	101.1
kikep15	2B40		8	6	60	79.7		321366	729573	31-10-02		0.16680	24.27450	3.95	0.65750	3.58	0.26781	1.39	3292	44	100.2
kikep16	2B54		8	6	60	81.1	56.5	346216	805789	31-10-02		0.17140	18.12579	5.17	0.49786	5.30	0.26441	1.40	3272	44	92.2
kikep17	2B36		8	6	60	105.4		237311	508367	31-10-02		0.16750	24.27235	2.92	0.65894	3.17	0.26724	1.75	3288	54	100.3
kikep18	2B17		8	6	60	100	30.4	246607	533380	31-10-02		0.17800	24.54733	2.96	0.66528	2.81	0.26735	1.74	3290	54	100.6
kikep19	2B03		8	6	60	75.7	37.6	288245	453226	31-10-02		0.23030	25.03047	3.41	0.67709	2.87	0.26851	2.62	3296	82	101.0
kikep20	2B02		8	6	60	105.4	46.4	537263	893423	31-10-02		0.22970	19.42272	3.85	0.57034	3.71	0.24688	2.33	3164	74	97.4
kikep21	2B01		8	6	60	95.9	36.8	217215	493619	31-10-02		0.15750	25.82868	4.11	0.70310	4.17	0.26657	1.76	3284	54	102.3
kikep22	2B15		8	6	60	90.5	74	311250	584728	31-10-02		0.21070	22.59008	4.54	0.62717	4.43	0.26067	1.84	3250	58	99.4
kikeq01	2B49		8	6	60	87.8	143.9	368770	652975	01-11-02		0.18250	21.70357	3.60	0.61152	3.26	0.25828	1.62	3236	50	98.6
kikeq02	2B51		8	6	60	81.1	216.4	392690	531325	01-11-02		0.21650	25.14739	3.84	0.70675	3.48	0.25937	1.82	3242	58	102.8
kikeq03	2B50-1		8	6	60	67.6	158.3	288897	801309	01-11-02		0.20240	17.57267	6.10	0.50131	6.22	0.25541	2.05	3218	66	92.8

datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikeq04	2B50-2		8	6	60	74.3	83.7	494452	904916	01-11-02		0.18760	22.48541	2.51	0.61392	2.56	0.26591	1.36	3282	42	98.3
kikeq05	2B35		8	6	60	71.6	89.4	363460	739745	01-11-02		0.17740	23.83027	2.22	0.65414	2.40	0.26454	1.37	3272	42	100.3
kikeq06	2B34		8	6	60	90.6	69.7	261195	534598	01-11-02		0.16070	23.18121	2.70	0.65357	2.85	0.25730	1.30	3230	42	100.7
kikeq07	2B16-2		8	6	60	104		305021	562174	01-11-02		0.17470	22.83047	3.04	0.64435	3.24	0.25739	1.30	3230	40	100.3
kikeq08	2B16-2		8	6	60	112.2	110.9	367049	718833	01-11-02		0.19020	22.08714	3.17	0.61066	3.20	0.26332	1.26	3266	40	98.2
kikeq09	2B14		8	6	60	100	168.4	509905	867896	01-11-02		0.24630	17.39392	2.81	0.48557	2.87	0.26085	1.58	3250	50	91.6
kikeq10	2B19		8	6	60	102.7	90.2	474876	618142	01-11-02		0.21490	22.10302	3.70	0.62851	3.26	0.25579	1.29	3220	40	99.6
kikeq11	2B20		8	6	60	86.5	159.2	476150	983841	01-11-02		0.18690	24.40425	5.31	0.68323	5.02	0.25951	1.64	3242	52	101.9
kikeq12	2B21		8	6	60	97.3		252512	579234	01-11-02		0.16670	24.55410	2.49	0.68160	2.79	0.26171	1.34	3256	42	101.7
kikeq13	2B12	incl	8	6	60	86.5	81.3	341854	729821	01-11-02		0.18850	24.30988	3.78	0.67680	3.45	0.26130	1.53	3254	48	101.4
kikeq14	2B30		8	6	60	82.5	983.1	630466	675219	01-11-02		0.39370	24.40612	5.35	0.69178	4.66	0.25671	1.32	3226	42	102.4
kikeq15	2B31		8	6	60	82.4	235.4	436776	1E+06	01-11-02		0.23050	18.55640	4.31	0.51907	4.20	0.26060	1.52	3250	48	93.5
kikeq16	2B32		8	6	60	86.5		589469	842329	01-11-02		0.18760	20.10529	3.36	0.55939	3.27	0.26145	1.26	3254	40	95.8
kikeq17	2B37		8	6	60	60.8	128.5	493811	907948	01-11-02		0.19500	24.09683	4.57	0.66394	5.26	0.26440	2.90	3272	92	100.6
kikeq18	2B38		8	6	60	90.5	90.2	289583	647174	01-11-02		0.17840	20.69505	3.62	0.58234	2.88	0.25881	1.26	3238	40	97.1
kikeq19	2B39		8	6	60	97.4		309270	560900	01-11-02		0.19960	20.98386	2.70	0.59021	2.63	0.25830	1.45	3236	46	97.6
kikeq20	2B48		8	6	60	74.3	74.1	383762	811584	01-11-02		0.18570	23.16093	5.08	0.66077	5.10	0.25566	1.62	3220	50	101.0
kikeq21	2B55		8	6	60	67.6	76.8	256230	608039	01-11-02		0.19110	24.87093	6.61	0.69053	6.33	0.26250	1.97	3260	62	101.9
kikeq22	2B53		8	6	60	63.5		257814	616238	01-11-02		0.17890	23.28441	3.59	0.63955	3.47	0.26509	1.86	3276	60	99.5
kikeq23	2B56		8	6	60	95.9	112.8	578100	1E+06	01-11-02		0.20300	10.55019	3.78	0.30355	3.64	0.25328	1.47	3204	46	78.1
kikeq24	2B57		8	6	60	74.4	72.4	222877	628566	01-11-02		0.16290	21.49552	4.44	0.60326	4.23	0.25916	1.54	3240	48	98.2
kikeq25	2B58		8	6	60	77	64.6	412648	810546	01-11-02		0.20310	22.52795	2.76	0.63062	2.81	0.26026	1.36	3248	42	99.3
kikeq26	2B60-1	crack	8	6	60	109.4	94.8	173462	384359	01-11-02		0.21620	20.29482	1.81	0.59203	1.61	0.24886	0.93	3176	30	98.4
kikeq27	2B60-2		8	6	60	89.2		222600	499057	01-11-02		0.17680	22.71924	3.08	0.61642	3.19	0.26833	1.54	3296	50	98.1
kikeq28	2B62		8	6	60	83.8	92.9	847067	851096	01-11-02		0.24530	19.55531	2.97	0.53654	2.85	0.26502	1.05	3276	32	94.3
kikeq29	2B61-1		8	6	60	112.2		213887	486509	01-11-02		0.17040	24.09614	2.38	0.66749	2.39	0.26250	1.02	3260	32	101.0
kikeq30	2B61-2		8	6	60	108.1	166.4	344989	579316	01-11-02		0.23170	24.27195	2.54	0.69274	2.60	0.25583	1.28	3220	40	102.5
kikeq31	2B41		8	6	60	48.7		212893	525944	01-11-02		0.16220	24.69894	1.51	0.69034	1.83	0.25962	1.23	3244	38	102.2
kikeq32	2B29		8	6	60	67.6	54.1	370892	748607	01-11-02		0.18970	22.52834	1.90	0.62410	1.70	0.26247	1.02	3260	32	99.0
kikeq33	2B22		8	6	60	108.1		210713	515059	01-11-02		0.15660	24.74882	2.29	0.67930	2.55	0.26531	0.99	3278	32	101.2
kikeq34	2B23		8	6	60	101.4		276771	632998	01-11-02		0.17140	24.02088	3.24	0.65568	3.22	0.26655	1.26	3284	40	100.2
kikeq35	2B11		8	6	60	105.4		357093	563125	01-11-02		0.18290	22.87859	1.79	0.63264	1.80	0.26338	1.02	3266	32	99.2
kikeq36	2B04		8	6	60	62.2	163.9	430860	846515	01-11-02		0.22800	24.51989	2.15	0.67459	2.14	0.26395	1.49	3270	46	101.2
kikeq37	2B05		8	6	60	108.4	91.3	656665	487735	01-11-02		0.20070	21.43427	3.34	0.60192	3.31	0.25937	1.09	3242	34	98.0
kikeq38	2B24		8	6	60	73		241957	512295	01-11-02		0.17620	24.60535	3.47	0.69322	3.10	0.25853	1.61	3236	50	102.3

**KB265 LA-ICP-MS U-Pb analysis**

data file	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikeq39	2C14		8	6	60	109.5	94.6	495731	804877	01-11-02		0.2688	20.72367	3.17	0.60739	2.98	0.24838	1.88	3174	58	99.1
kikeq40	2C22		8	6	60	139.2	10	332094	575096	01-11-02		0.2343	19.92752	3.65	0.57523	3.61	0.25166	2.33	3194	74	97.3
kikeq41	2C23		8	6	60	113.9	10	536732	673779	01-11-02		0.2731	25.33222	4.00	0.69533	3.86	0.2652	1.75	3276	54	102.0
kikeq42	2C06		8	6	60	113.6	10	463063	714316	01-11-02		0.2512	21.51502	3.68	0.60653	3.63	0.25816	1.74	3234	56	98.4
kikeq43	2C08		8	6	60	111.2	10	330061	556778	01-11-02		0.2656	20.40066	3.14	0.60595	3.00	0.24488	1.52	3150	48	99.4
kikeq44	2C20		8	6	60	74.3	10	1050920	2E+06	01-11-02		0.2895	22.17083	3.99	0.61056	3.33	0.26444	2.02	3272	64	98.1
kikeq45	2C27		8	6	60	95.9	10	262958	616752	01-11-02		0.1789	22.97669	3.80	0.65731	3.63	0.25523	1.96	3216	62	100.9
kikeq46	2C21		8	6	60	108.1	10	239273	334844	01-11-02		0.2817	24.54165	4.76	0.68813	4.58	0.2591	1.87	3240	60	102.2
kikeq47	2C16		8	6	60	71.6	10	169671	331806	01-11-02		0.2044	22.90828	5.32	0.64051	5.46	0.25977	3.08	3244	96	100.0
kikeq48	2C06		8	6	60	71.6	17	564073	919278	01-11-02		0.3401	17.0519	6.29	0.49027	4.67	0.25292	4.09	3202	130	92.3
kikeq49	2C13		8	6	60	73	10	253912	422918	01-11-02		0.2084	26.38229	4.87	0.72893	4.59	0.26365	2.18	3268	70	103.5

datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikeq50	2C24		8	6	60	121.7	10	426131	584472	01-11-02		0.2479	24.31017	3.65	0.68448	3.88	0.25851	2.01	3236	64	102.0
kikeq51	2C34-1		8	6	60	64.9	10	925248	1E+06	01-11-02		0.331	18.75014	5.43	0.5377	5.42	0.25398	3.22	3208	102	95.0
kikeq52	2C34-2		8	6	60	104.1	42.5	1540289	1E+06	01-11-02		0.4669	15.56632	5.18	0.45744	4.61	0.24859	2.38	3174	76	90.4
kikeq53	2C34-3		8	6	60	74.4	76	1987743	2E+06	01-11-02		0.6591	13.25146	7.06	0.36979	6.74	0.26155	4.16	3256	132	83.4
kikeq54	2C44		8	6	60	75.7	10	108677	514810	01-11-02		0.1212	16.70861	4.95	0.53933	4.92	0.2256	2.35	3020	76	97.3
kikeq55	2C43		8	6	60	95.9	10	547666	1E+06	01-11-02		0.2353	17.30788	3.95	0.5063	3.79	0.24952	1.97	3180	62	93.4
kikeq56	2C51-1		8	6	60	82.4	10	498413	632068	01-11-02		0.2845	21.09568	7.70	0.62736	6.72	0.2446	2.45	3150	78	100.4
kikeq57	2C51-2		8	6	60	94.7	10	652831	770435	01-11-02		0.3335	23.39368	3.83	0.6265	4.20	0.27213	2.31	3318	74	98.3
kikeq58	2C50		8	6	60	93.2	10	469009	614659	01-11-02		0.2983	24.73726	5.19	0.67306	5.50	0.26755	2.53	3290	80	100.9
kikeq59	2C41-1		8	6	60	91.9	10	1060612	1E+06	01-11-02		0.3248	25.4554	4.31	0.67661	4.47	0.27415	2.17	3328	68	100.5
kikeq60	2C41-2		8	6	60	132.5	10	1099802	1E+06	01-11-02		0.3658	24.87181	3.47	0.67248	3.09	0.26993	1.73	3304	54	100.6
kiker01	2C49		8	6	60	108.2	47.2	580204	918138	04-11-02		0.3036	20.70838	3.69	0.57821	3.97	0.25984	1.82	3244	58	96.9
kiker02	2C40		8	6	60	132.5	10	410181	669172	04-11-02		0.297	15.74889	3.13	0.48038	3.53	0.23794	2.22	3106	70	92.8
kiker03	2C39		8	6	60	102.7	32.9	676510	879378	04-11-02		0.3101	24.09016	4.44	0.64368	4.35	0.27141	1.72	3314	54	99.3
kiker04	2C38	cracks	8	6	60	121.6	45.2	504148	1E+06	04-11-02		0.2375	19.42438	3.26	0.56746	3.03	0.24861	1.87	3174	60	97.1
kiker05	2C37		8	6	60	43.3	36.8	703298	1E+06	04-11-02		0.1981	19.64214	3.69	0.57504	3.93	0.24827	1.37	3172	44	97.5
kiker06	2C36-1		8	6	60	100	10	982717	2E+06	04-11-02		0.2055	17.88951	3.50	0.5495	3.61	0.23661	1.62	3096	52	97.0
kiker07	2C36-2		8	6	60	96	25.4	772655	1E+06	04-11-02		0.2241	22.0256	2.97	0.62371	2.76	0.25634	1.12	3224	34	99.4
kiker08	2C42		8	6	60	79.8	10	828742	1E+06	04-11-02		0.2391	21.77501	3.48	0.61642	3.59	0.25718	1.35	3228	44	98.9
kiker09	2D04		8	6	60	78.4	30.5	898027	1E+06	04-11-02		0.2988	22.7999	5.29	0.63206	4.43	0.26284	1.68	3262	52	99.3
kiker10	2D12		8	6	60	83.8	10	278283	464730	04-11-02		0.2765	24.72148	3.05	0.71568	2.98	0.25133	1.44	3192	44	103.9
kiker11	2D13		8	6	60	114.9	35.1	1095263	1E+06	04-11-02		0.3442	18.58746	3.01	0.50784	3.09	0.26559	1.23	3280	38	92.7
kiker12	3B125		8	6	60	59.5	138.4	1029607	1E+06	04-11-02		0.382	22.42093	2.33	0.61018	2.34	0.26795	2.17	3294	68	97.8
kiker13	3B124		8	6	60	60.8	61.5	454062	785957	04-11-02		0.2082	22.8783	1.06	0.62765	1.13	0.26457	0.58	3274	18	99.0
kiker14	3B123		8	6	60	78.4	51	935745	1E+06	04-11-02		0.2586	22.65907	1.17	0.61603	1.23	0.2671	0.47	3288	16	98.3
kiker15	3B115		8	6	60	77	42.4	274142	551018	04-11-02		0.1735	23.68885	1.45	0.65808	1.47	0.26181	0.65	3256	20	100.6
kiker16	3B099		8	6	60	60.8	51.5	477693	709260	04-11-02		0.2415	23.98697	2.15	0.65683	2.31	0.26543	0.88	3278	28	100.3
kiker17	3B096		8	6	60	33.8	39.7	502597	767325	04-11-02		0.2075	23.61153	2.72	0.62966	2.89	0.27267	1.14	3320	36	98.6
kiker18	3B137-1		8	6	60	62.2	76.8	2375262	2E+06	04-11-02		0.3412	15.94176	3.72	0.45245	3.48	0.25628	1.19	3222	38	89.8
kiker19	3B137-2		8	6	60	54.1	10	777971	1E+06	04-11-02		0.1947	17.45743	2.28	0.54797	2.27	0.23154	0.87	3062	28	97.3
kiker20	3B118		8	6	60	50	47.3	997433	1E+06	04-11-02		0.3099	22.04784	1.78	0.59866	1.67	0.26825	0.69	3294	22	97.3
kiker21	3B119		8	6	60	39.2	48.8	407734	728374	04-11-02		0.2149	23.88495	2.20	0.66259	1.96	0.26166	1.19	3256	38	100.8
kiker22	3B094		8	6	60	68.9	57.8	977101	1E+06	04-11-02		0.2709	23.59487	1.96	0.64272	1.90	0.26686	0.62	3286	20	99.5
kiker23	3B004		8	6	60	58.1	53.3	348755	752415	04-11-02		0.1804	24.46472	1.77	0.6695	1.78	0.26552	1.21	3278	38	100.9
kiker24	3B012		8	6	60	40.6	45.6	258022	491932	04-11-02		0.1891	23.94297	3.66	0.67776	3.81	0.25609	1.36	3222	44	102.0
kiker25	3B013		8	6	60	46	46.9	372788	585660	04-11-02		0.1777	22.32048	3.15	0.61603	2.98	0.26382	1.92	3268	60	98.4
kiker26	3B028		8	6	60	73	40.9	368032	579082	04-11-02		0.1887	21.98806	1.53	0.6119	1.59	0.26144	0.86	3254	28	98.4
kiker27	3B030		8	6	60	54.1	43.1	271610	597837	04-11-02		0.1638	23.92386	2.44	0.66797	2.23	0.2599	1.36	3246	42	101.2
kiker28	3B009		8	6	60	56.8	10	715879	841879	04-11-02		0.2223	25.22922	2.39	0.68544	2.69	0.26709	1.61	3288	52	101.5
kiker29	3B034		8	6	60	46	10	878226	1E+06	04-11-02		0.2606	21.69485	1.66	0.61094	1.78	0.2575	1.15	3230	36	98.8
kiker30	3A14		8	6	60	46	68.1	767031	1E+06	04-11-02		0.2572	24.24363	3.61	0.67834	3.95	0.25987	1.36	3244	42	101.7
kiker31	3A22		8	6	60	78.4	80.2	1080667	1E+06	04-11-02		0.2829	22.84419	1.69	0.62717	1.56	0.26494	0.89	3276	28	98.9
kiker32	3A23		8	6	60	70.3	55.2	510465	763950	04-11-02		0.2449	22.96689	1.80	0.64042	1.66	0.26049	0.42	3248	14	99.9
kiker33	3A06		8	6	60	62.2	55.6	523563	833087	04-11-02		0.2361	22.33018	2.55	0.63965	2.46	0.25372	1.23	3208	38	100.3
kiker34	3A08		8	6	60	35.2	40.8	528007	790504	04-11-02		0.2573	24.97804	4.15	0.68122	5.05	0.26602	2.33	3282	74	101.4
kiker35	3A20		8	6	60	39.2	48	745839	1E+06	04-11-02		0.2731	24.15984	2.34	0.65376	2.19	0.26908	1.69	3300	54	99.8
kiker36	3A27-1		8	6	60	48.7	41.3	416460	838546	04-11-02		0.2161	24.29048	2.44	0.67133	2.29	0.26272	1.12	3262	36	101.2
kiker37	3A27-2		8	6	60	44.6	52.3	694074	928217	04-11-02		0.2552	25.80565	3.13	0.70742	3.09	0.26438	1.35	3272	44	102.7
kiker38	3A21		8	6	60	48.7	88	711909	1E+06	04-11-02		0.3118	20.21818	2.60	0.56563	2.34	0.25958	1.27	3244	42	96.2
kiker39	3A16		8	6	60	44.6	10	1224609	2E+06	04-11-02		0.2876	23.52794	1.82	0.64253	1.72	0.26642	0.93	3284	28	99.5

datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kiker40	3B090		8	6	60	77	10	347686	677408	04-11-02		0.2154	21.40771	2.90	0.5855	2.85	0.2653	0.87	3278	28	96.9
kiker41	3B089		8	6	60	81.1	36.8	444149	712067	04-11-02		0.2132	22.08793	2.08	0.61411	1.75	0.26101	0.73	3252	24	98.6
kiker42	3B081		8	6	60	81.1	90.6	845564	759507	04-11-02		0.2791	20.90262	1.94	0.5784	1.73	0.26228	0.87	3260	28	96.7
kiker43	3B080		8	6	60	47.3	70.2	357286	656680	04-11-02		0.2577	23.7407	4.35	0.67027	3.97	0.25766	1.54	3232	50	101.4
kiker44	3B055		8	6	60	94.6	46	298273	501625	04-11-02		0.2271	22.77696	1.84	0.64646	1.86	0.25587	0.77	3220	24	100.5
kiker45	3B084		8	6	60	77.1	33.9	222451	457950	04-11-02		0.1597	23.94855	1.81	0.66077	1.66	0.2631	0.82	3264	26	100.7
kiker46	3B051		8	6	60	43.3	54.8	332935	645685	04-11-02		0.2328	25.17904	4.19	0.68122	4.56	0.26897	1.67	3300	52	101.1
kiker47	3B052		8	6	60	60.8	38.4	376756	717912	04-11-02		0.2076	24.62887	2.39	0.66499	2.24	0.26831	1.55	3296	50	100.5
kiker48	3B046		8	6	60	82.4	72.8	2854109	616646	04-11-02		0.2755	18.09815	3.17	0.51456	2.78	0.25543	1.21	3218	38	93.7
kiker49	3B020		8	6	60	114.8	34.4	445507	731053	04-11-02		0.2136	24.37289	1.43	0.67776	1.32	0.2619	0.46	3258	14	101.4
kiker50	3B024		8	6	60	83.8	25.6	311511	586993	04-11-02		0.1744	23.39907	1.48	0.65242	1.38	0.26068	0.69	3250	22	100.4

**KB312 LA-ICP-MS U-Pb analysis**

data file	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikeg05	6F01		5	6	40	63.5	10	19207	73161	26-02-02		0.1004	31.99102	3.94	0.70358	3.47	0.3285	1.96	3610	60	98.9
kikeg06	6F02		10	6	40	27.1	10	58774	170634	26-02-02		0.0978	28.58229	2.67	0.61594	2.97	0.33666	1.86	3646	56	94.9
kikeg07	6F03		8	6	40	27	10	121868	169677	26-02-02		0.1513	19.09344	6.42	0.51869	5.95	0.26603	2.52	3282	78	93.4
kikeg08	6F04		7	6	40	14.9	10	41348	103211	26-02-02	x	0.2155	19.82667	7.23	0.57437	9.34	0.25108	6.92	3190	220	97.2
kikeg09	6F05		7	6	40	35.2	10	63675	142436	26-02-02		0.1951	23.57302	3.59	0.68371	4.65	0.2507	2.97	3188	94	102.6
kikeg10	6F06	crack	7	6	40	25.7	10	57824	110129	26-02-02	x	0.1708	0	0.00	0	0.00	0.25199	5.91	3196	186	0.0
kikeg11	6F08		5	6	40	35.1	10			26-02-02		0.1636	20.67359	3.48	0.58166	3.20	0.25876	3.79	3238	118	97.1
kikeg12	6F09		5	6	40	37.9	10	69150	138730	26-02-02		0.2251	21.88624	3.66	0.59952	2.29	0.26584	4.18	3280	130	97.5
kikeg13	6F10		5	6	40	33.8	10	60988	146594	26-02-02		0.2024	22.4422	4.21	0.64522	5.38	0.25223	4.84	3198	152	100.8
kikeg14	6F11	crack	5	6	40	29.7	10	24506	69709	26-02-02		0.1651	22.60919	4.29	0.64426	3.06	0.25509	3.59	3216	114	100.4
kikeg15	6F12		5	6	40	33.8	10	119096	231768	26-02-02		0.245	21.89104	4.94	0.59674	4.12	0.26588	4.20	3280	132	97.5
kikeg16	6F13		5	6	40	28.4	73.6	232334	287364	26-02-02		0.2779	14.42854	4.23	0.39936	5.27	0.26349	5.06	3266	160	85.7
kikeg17	6F14	thin	5	6	40	14.9	10	6335	17684	26-02-02	x	0.3543	16.87589	22.69	0.46176	16.37	0.26612	19.14	3282	610	89.8
kikeg18	6F15		5	6	40	27	10	49291	105923	26-02-02		0.1999	20.63233	3.90	0.56122	4.28	0.26684	4.20	3286	134	95.6
kikeg19	6F16	dirty	5	6	40	35.2	10	112097	276698	26-02-02		0.1501	17.41921	3.19	0.50736	3.71	0.24797	3.89	3170	124	93.9
kikeg20	6F17	zoned	5	6	40	58.1	10	491784	218755	26-02-02		0.2591	15.10023	4.46	0.41818	4.03	0.26217	2.23	3258	70	87.2
kikeg21	6F18	crack	5	6	40	63.5	10	24878	62375	26-02-02		0.1769	23.26608	3.74	0.64243	3.54	0.26232	2.38	3260	74	99.9
kikeg22	6F19	incl	7	6	40	81.1	10	17949	44507	26-02-02		0.1565	22.1332	3.64	0.6047	3.10	0.26549	1.92	3278	60	97.9
kikeg23	6F20		6	6	40	43.2	10	20870	69793	26-02-02		0.1306	21.75767	6.67	0.6241	5.83	0.25276	6.39	3202	202	99.7
kikeg24	6F21		6	6	40	58.1	10	20938	51016	26-02-02		0.1542	23.10791	3.39	0.71242	9.06	0.23426	3.23	3080	104	105.6
kikeg25	6F22		6	6	40	50	10	30317	74411	26-02-02		0.1654	22.79274	3.34	0.62035	3.81	0.2672	2.28	3288	72	98.5
kikeg26	6F23		6	6	40	52.7	10	17993	48691	26-02-02		0.1517	21.67201	3.45	0.61037	3.65	0.25846	2.32	3236	72	98.5
kikeg27	6F24		6	6	40	44.6	10	17222	43051	26-02-02	x	0.1798	25.17787	22.15	0.62755	4.05	0.29114	18.01	3422	568	97.5
kikeg28	6F25		6	6	40	50	89.9	169002	383787	26-02-02		0.2579	21.97033	6.82	0.59434	3.41	0.26935	4.82	3302	150	97.0
kikeg29	6F26		6	6	40	56.8	10	103793	139482	26-02-02		0.255	21.66359	4.44	0.6431	7.44	0.24304	3.00	3138	96	101.6
kikeg30	6F27		6	6	40	50	10	45338	178709	26-02-02	x	0.1288	0.441098	5.67	0.04915	3.96	0.06507	4.97	776	208	48.6
kikeg31	6F28		6	6	40	68.9	10	12870	42932	26-02-02		0.1411	19.66213	4.52	0.55555	5.69	0.25651	3.02	3224	96	96.0
kikeg32	6F29		6	6	40	47.3	10	223723	133958	26-02-02		0.2649	17.37775	4.17	0.47213	3.30	0.26667	1.49	3286	46	90.5
kikeg33	6F30		6	6	30	46	10	7590	21358	26-02-02		0.1402	21.60508	6.71	0.57802	4.56	0.26812	4.98	3294	156	96.7
kikeg34	6F31	thin	6	6	40	25.7	185.8	445656	1E+06	26-02-02		0.204	16.57102	6.69	0.49363	9.71	0.2442	4.68	3146	148	93.1
kikeg35	6F32		6	6	40	36.5	10	255151	510740	26-02-02		0.2278	22.79764	5.61	0.6265	3.59	0.26611	7.19	3282	226	98.7
kikeg36	6F33		6	6	40	35.2	10	50294	119169	26-02-02		0.1883	20.57706	4.06	0.58666	4.42	0.25449	2.46	3212	78	97.7
kikeg37	6F34		6	6	40	33.8	10	33773	76846	26-02-02		0.1803	21.42545	4.24	0.59021	3.59	0.26252	3.63	3260	114	97.5
kikeg38	6F35		6	6	40	47.3	10	69553	107391	26-02-02		0.2154	19.48113	2.51	0.53808	2.86	0.26248	2.73	3260	84	94.6
kikeg39	6F36		6	6	40	27.1	10	49986	138786	26-02-02		0.19	19.00583	5.45	0.50746	8.15	0.27266	6.05	3320	190	92.2

datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikeg40	6F37	thin	6	6	40	24.4	10	40927	91683	26-02-02		0.2274	22.02246	4.52	0.58973	5.77	0.27099	5.79	3310	182	96.8
kikeg41	6F38		6	6	40	40.6	10	76157	161580	26-02-02		0.3015	21.1976	3.27	0.58157	2.80	0.2657	2.28	3280	72	96.6
kikeg42	6F39		6	6	40	35.2	10	19503	45652	26-02-02		0.197	12.31644	2.70	0.46589	2.72	0.19083	2.80	2748	92	96.4
kikeg43	6F40		6	6	40	41.9	10	46665	177857	26-02-02		0.1465	22.04696	16.85	0.55574	2.95	0.28888	14.75	3410	462	94.0
kikeg44	6F41		6	6	40	39.2	10	34137	147488	26-02-02	x	0.0983	4.964092	3.43	0.31882	2.77	0.11392	2.87	1862	102	98.3
kikeg45	6F42		6	6	40	44.6	10	34897	62092	26-02-02	x	0.2354	0	0.00	0.26803	2.97					
kikeg46	6F43		6	6	40	37.9	10	32983	77069	26-02-02		0.1602	21.29716	3.68	0.61056	3.37	0.25361	2.09	3206	66	98.9
kikeg47	6F44		6	6	40	40.6	10	40988	80431	26-02-02		0.1449	19.46437	3.15	0.56064	3.31	0.2532	1.94	3204	62	96.3
kikeg48	6F45		6	6	40	48.7	10	38499	80198	26-02-02		0.1767	23.59566	7.89	0.70838	9.62	0.24185	2.95	3132	94	104.5
kikeg49	6F46		6	6	40	29.7	10	97657	155741	26-02-02		0.2318	21.0162	5.24	0.60259	6.24	0.25348	3.13	3206	98	98.5
kikeg50	6G01	zoned	6	6	60	71.6	10	95666	235053	26-02-02		0.2218	23.00971	2.90	0.62938	2.81	0.26685	2.01	3286	64	98.8
kikeg51	6G02		6	6	60	73	10	200573	429157	26-02-02		0.2282	20.9085	2.78	0.55978	2.57	0.2709	1.74	3310	56	95.3
kikeg52	6G03		6	6	60	110.8	131.5	299895	724629	26-02-02		0.2123	15.28143	3.55	0.47328	3.31	0.23397	1.76	3078	56	92.7
kikeg53	6G04		6	6	60	60.8	10	20923	77181	26-02-02		0.1471	21.39712	2.25	0.59232	2.14	0.26212	2.56	3258	80	97.5
kikeg54	6G05		6	6	40	44.6	10	66489	140748	26-02-02		0.2142	22.68377	2.60	0.62659	2.76	0.26186	1.43	3256	46	99.3
kikeg55	6G06		6	6	40	125.7	10	26239	55880	26-02-02		0.1786	23.24305	2.81	0.65069	2.68	0.26034	1.28	3248	40	100.3
kikeg56	6G07		6	6	40	66.2	10	45175	85373	26-02-02		0.1869	20.33275	2.68	0.56966	2.77	0.26126	1.80	3254	58	96.1
kikeg57	6G08		6	6	40	70.3	10	28888	74408	26-02-02		0.1479	20.86332	2.65	0.60365	2.08	0.24853	1.62	3174	52	99.3
kikeg58	6G09	thin	6	6	40	32.5	10	73777	159152	26-02-02		0.1971	19.31413	4.12	0.52502	4.49	0.2665	3.25	3284	102	93.7
kikeg59	6G10		6	6	40	108.1	10	47370	112225	26-02-02		0.1987	19.13783	2.71	0.55094	2.67	0.25034	1.22	3186	40	96.3
kikeg60	6G11		6	6	40	43.3	10	58631	124652	26-02-02		0.2027	22.14516	2.11	0.63763	2.22	0.2509	1.55	3190	50	100.6
kikeg61	6G12		6	6	40	43.3	10	57565	168491	26-02-02		0.1379	16.9737	1.85	0.50045	2.47	0.24703	1.69	3164	54	93.3
kikeg62	6G13		6	6	40	40.6	324.6	222849	791811	26-02-02		0.1901	10.68876	5.48	0.35405	2.66	0.21901	3.29	2972	106	84.6
kikeg63	6G14		6	6	60	52.7	10	53238	114754	26-02-02		0.1902	22.27707	2.13	0.61824	2.80	0.26206	1.56	3258	48	98.7
kikeg64	6G15		6	6	60	29.8	10	31730	111890	26-02-02		0.1788	18.94448	5.36	0.53002	6.13	0.25827	4.32	3236	136	94.5
kikeg65	6G16		6	6	60	156.8	10	28026	85242	26-02-02		0.1361	22.51452	2.48	0.62717	1.95	0.26014	2.47	3246	76	99.4
kikeg66	6G17		6	6	60	24.4	10	6585	23185	26-02-02		0.0861	15.57524	3.71	0.50035	3.62	0.2266	3.61	3028	116	94.8
kikeg67	6G18		6	6	60	31.1	10	532	10776	26-02-02		0.0176	14.00567	5.19	0.51571	3.51	0.19663	5.69	2798	186	99.0

### KB746 LA-ICP-MS U-Pb analysis

data file	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikek57	5D01		5	6	60	108.1	50.2	76080	168408	06-03-02		0.2219	14.2091	2.41	0.4921	2.27	0.2094	1.33	2900	44	96.0
kikek58	5D02		5	6	60	66.2	10	76894	157642	06-03-02		0.2014	16.5531	2.05	0.5763	2.08	0.2080	1.34	2888	44	101.4
kikek59	5D03		5	6	60	105.4	10	73669	164278	06-03-02		0.1918	16.4194	2.51	0.5986	8.64	0.1991	1.97	2818	64	103.7
kikek60	5D04		5	6	60	83.8	10	94221	230425	06-03-02		0.1834	21.7486	3.05	0.5934	2.65	0.2658	1.74	3280	56	97.3
kikek61	5D05		5	6	60	79.8	10	52493	151851	06-03-02		0.1766	14.2852	2.65	0.4874	2.50	0.2123	1.56	2922	50	95.4
kikek62	5D06		5	6	60	66.2	10	114697	300074	06-03-02		0.1793	13.2377	4.29	0.4454	4.75	0.2158	2.44	2948	80	92.1
kikek63	5D07		5	6	60	104.1	10	104084	225814	06-03-02	x	0.1825	16.4511	8.33	0.5343	2.21	0.2232	5.74	3002	184	97.4
kikek64	5D08		5	6	60	87.8	10	62628	139016	06-03-02		0.2127	16.1529	2.87	0.5527	3.33	0.2110	1.55	2912	52	99.8
kikek65	5D09		5	6	60	120.3	10	72719	180432	06-03-02		0.2924	16.6829	2.23	0.5611	2.03	0.2147	1.26	2940	40	99.9
kikek66	5D10		5	6	60	114.9	10	64952	138527	06-03-02		0.2102	15.2674	2.21	0.5113	2.07	0.2168	1.38	2956	44	96.4
kikel01	5D12		7	6	60	79.7	10	180921	282554	07-03-02		0.2990	16.0348	1.80	0.5331	1.94	0.2173	1.09	2960	36	97.9
kikel02	5D13		8	6	60	58.1	102.4	140743	412254	07-03-02		0.1649	17.4197	2.89	0.5647	2.43	0.2240	1.57	3008	52	99.0
kikel03	5D14		7	6	60	63.5	58.6	137939	323592	07-03-02		0.2060	16.2245	2.20	0.5366	2.56	0.2191	2.86	2974	92	97.8
kikel04	5D15		7	6	60	67.6	10	80170	214726	07-03-02		0.1708	16.3935	1.93	0.5579	1.84	0.2114	1.51	2916	50	100.1
kikel05	5D16	crack	7	6	60	85.1	10	286151	509347	07-03-02		0.2818	15.4511	2.05	0.5041	1.97	0.2230	1.27	3002	42	95.4
kikel06	5D17		7	6	60	96	245.4	188880	891034	07-03-02		0.1533	14.5953	2.67	0.4474	2.18	0.2385	1.19	3108	38	90.3
kikel07	5D18		7	6	60	96	10	184739	472028	07-03-02		0.1768	16.0086	2.66	0.5260	2.43	0.2217	1.31	2992	42	96.8
kikel08	5D19		7	6	60	77.1	10	92914	215069	07-03-02		0.1897	17.6253	1.85	0.5802	1.56	0.2206	1.47	2984	48	100.2

datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikel09	5D20		7	6	60	37.9	10	108025	269421	07-03-02		0.1983	16.8931	1.95	0.5626	1.63	0.2193	1.67	2974	54	99.1
kikel10	5D21		7	6	60	87.9	122.9	230495	662572	07-03-02		0.1794	18.0014	2.50	0.5108	2.08	0.2558	1.21	3220	40	93.4
kikel11	5D22		7	6	60	83.8	10	110395	293257	07-03-02		0.1878	17.9735	7.70	0.5631	3.00	0.2317	7.90	3062	254	98.2
kikel12	5D23	zoned	7	6	60	58.1	10	234535	528259	07-03-02		0.1759	14.5396	3.37	0.5028	3.36	0.2100	1.29	2904	42	96.6
kikel13	5D24		7	6	60	121.7	10	73807	144876	07-03-02		0.2288	15.6109	2.93	0.5432	2.77	0.2085	1.43	2892	46	99.3
kikel14	5D25		7	6	60	86.5	10	98199	225909	07-03-02		0.2201	15.8501	1.70	0.5256	1.85	0.2185	1.25	2970	40	97.2
kikel15	5D26		7	6	60	66.2	120.9	70766	209486	07-03-02	x	0.2119	16.2301	15.75	0.5328	3.05	0.2218	16.81	2992	548	97.3
kikel16	5D27		7	6	60	58.1	10	80765	245851	07-03-02		0.1813	15.7475	2.64	0.5257	2.47	0.2156	1.83	2948	58	97.7
kikel17	5D28		7	6	60	78.4	10	127432	327438	07-03-02		0.2180	16.4581	4.25	0.5280	2.48	0.2261	3.48	3024	112	96.7
kikel18	5D29		7	6	60	47.3	10	111991	254841	07-03-02		0.2659	14.9753	3.03	0.4896	3.62	0.2208	1.82	2986	58	94.9
kikel19	5D30		7	6	60	47.3	89.2	114636	255091	07-03-02		0.2888	14.2811	3.05	0.4716	3.49	0.2213	3.70	2988	120	93.3
kikel20	5D31		7	6	60	63.5	10	118905	336891	07-03-02		0.1736	18.0541	4.97	0.5841	2.35	0.2252	4.93	3016	158	99.9
kikel21	5D32	high U	7	6	60	100	93.5	177747	760411	07-03-02		0.1206	10.7026	4.97	0.3445	3.80	0.2247	1.46	3014	48	83.5
kikel22	5D33		7	6	60	44.6	70.4	144744	480997	07-03-02		0.1763	14.1320	3.57	0.4713	2.87	0.2169	2.09	2956	68	94.0
kikel23	5D34		7	6	60	98.7	10	86665	225451	07-03-02	x	0.1941	16.7121	2.11	0.7074	23.41	0.1717	2.41	2574	80	114.1
kikel24	5D35		7	6	60	51.4	10	142086	462993	07-03-02		0.1664	14.2403	3.41	0.4879	3.74	0.2127	2.08	2924	68	95.2
kikel25	5D36		7	6	60	43.3	10	170934	486265	07-03-02		0.2096	17.2670	2.99	0.5854	2.57	0.2143	1.92	2938	62	101.1
kikel26	5D37		7	6	60	31.1	123.8	72441	269666	07-03-02		0.2158	18.2986	3.64	0.6232	4.14	0.2129	2.48	2926	80	103.4
kikel27	5D38		7	6	60	46	249.6	95203	390998	07-03-02		0.1683	16.5790	4.08	0.5639	3.28	0.2122	3.25	2922	104	100.3
kikel28	5D39		7	6	60	41.9	46	142722	478707	07-03-02		0.1777	17.7241	3.28	0.5776	2.53	0.2207	2.66	2984	86	100.3
kikel29	5D40		7	6	60	106.7	10	93224	219969	07-03-02		0.2012	14.5213	2.51	0.5020	2.35	0.2086	1.10	2894	36	96.9
kikel30	5D41		7	6	60	79.8	77.3	81226	254758	07-03-02	x	0.1573	18.7055	21.19	0.6384	15.71	0.2119	1.26	2920	42	104.3
kikel31	5D42		7	6	60	73	10	53498	122033	07-03-02		0.2056	14.6292	2.46	0.4945	3.07	0.2144	1.90	2938	62	95.7
kikel32	5D43		7	6	60	89.2	10	65816	145845	07-03-02	x	0.1729	14.6468	2.12	0.7072	20.48	0.1493	2.70	2336	92	120.4
kikel33	5D44		7	6	60	70.3	10	87668	219566	07-03-02		0.1835	17.0559	2.32	0.5825	3.50	0.2122	2.39	2922	78	101.2
kikel34	5D45		7	6	60	97.3	10	42171	107843	07-03-02		0.2137	16.7638	4.93	0.5577	2.58	0.2172	4.67	2958	150	99.4
kikel35	5D46		7	6	60	147.3	10	80436	150789	07-03-02		0.2491	17.0908	1.72	0.6100	2.03	0.2026	1.19	2846	40	104.0
kikel36	5D47		7	6	60	46	10	52461	177866	07-03-02		0.2048	16.3244	2.79	0.5600	2.76	0.2102	2.65	2906	86	100.3
kikel37	5D48		7	6	60	105.4	10	51539	168312	07-03-02	x	0.2129	18.3250	23.94	0.5038	2.47	0.2627	13.36	3262	424	92.8
kikel38	5D49		7	6	60	55.4	10	67812	211768	07-03-02		0.1785	14.6585	2.86	0.5190	2.76	0.2029	1.76	2848	58	98.8
kikel39	5D50		7	6	60	31.1	1264	80105	199450	07-03-02		0.7148	15.8590	5.29	0.5820	3.40	0.1970	4.74	2800	156	103.1
kikel40	5D51		7	6	60	97.3	10	102085	303042	07-03-02		0.1741	16.0921	2.88	0.5492	2.75	0.2117	2.48	2918	80	99.5
kikel41	5D52		7	6	60	66.2	10	63815	181579	07-03-02		0.2139	14.6368	3.12	0.4976	2.62	0.2118	2.01	2918	64	96.3
kikel42	5D53		7	6	60	59.5	405.1	398197	1E+06	07-03-02		0.2273	10.7171	2.69	0.4156	2.51	0.1867	1.60	2712	52	92.8
kikel43	5D54		7	6	60	48.7	10	76509	266362	07-03-02		0.1927	16.4939	2.66	0.5604	2.77	0.2123	1.56	2922	50	100.1
kikel44	5D55		7	6	60	55.4	105.4	53364	205594	07-03-02		0.2092	14.9674	2.96	0.5204	3.45	0.2081	2.47	2890	80	98.0
kikel45	5D56		5	6	60	46	112.5	38177	156450	07-03-02		0.2572	14.8248	2.68	0.4832	1.68	0.2229	2.18	3000	70	94.1
kikel46	5D57		5	6	60	52.7	10	69895	279641	07-03-02		0.1787	14.9179	2.81	0.5168	2.64	0.2091	1.87	2898	62	97.6
kikel47	5D58		5	6	60	85.1	10	80076	276058	07-03-02		0.1720	16.0770	2.19	0.5366	2.08	0.2167	2.02	2956	66	98.1
kikel48	5D59		5	6	60	113.6	10	117085	456359	07-03-02		0.1562	16.0498	1.78	0.5416	1.75	0.2136	1.23	2932	40	98.9
kikel49	5D60		7	6	60	93.3	10	74359	256644	07-03-02		0.1738	15.5133	2.30	0.5486	2.33	0.2047	1.81	2864	58	100.1
kikel50	5D61		5	6	60	73	10	48236	203331	07-03-02		0.1691	16.1502	1.81	0.5407	1.40	0.2149	1.49	2942	48	98.7
kikel51	5D62		5	6	60	62.2	10	149497	480733	07-03-02		0.1938	15.1532	3.24	0.5118	2.80	0.2127	1.71	2926	54	97.2
kikel52	5D63		5	6	60	147.4	10	34069	91250	07-03-02		0.1847	16.3175	1.93	0.5570	1.85	0.2116	1.23	2916	40	100.0
kikem23	5D12b	2nd int	7	6	60	40.6	10	57309	109489	07-03-02		0.1864	19.0060	3.68	0.6472	3.95	0.2126	2.65	2924	86	104.7













datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikel79	4A25	crack	5	6	40	40.5	10	45193	67040	07-03-02		0.3519	21.53854	3.62	0.59414	2.97	0.25966	2.41	3244	76	98.1
kikel80	4A26		5	6	40	46	10	557995	495007	07-03-02		0.5646	13.94119	8.29	0.46253	9.49	0.21666	3.70	2956	120	93.5
kikel81	4A27		5	6	40	74.4	10	331371	291865	07-03-02		0.6021	14.18276	4.42	0.4487	4.47	0.22752	2.85	3034	90	91.7
kikel82	4A28	thin	5	6	40	24.4	10	27170	39278	07-03-02		0.3671	23.39172	6.33	0.62419	5.64	0.27109	10.47	3312	330	98.5
kikel83	4A29	dirty	5	6	40	43.3	10	668385	509754	07-03-02		0.7394	21.49042	6.56	0.59117	6.97	0.26129	4.20	3254	132	97.8
kikel84	4A30		5	6	40	56.8	10	99643	123922	07-03-02		0.4644	22.35576	4.28	0.62947	4.16	0.25433	3.33	3210	104	100.3
kikel85	4A31		5	6	40	45.9	10	126646	115479	07-03-02		0.5462	22.27266	4.22	0.60586	3.77	0.26376	2.45	3268	76	98.4
kikel86	4A32		5	6	40	143.3	10	70432	109623	07-03-02		0.3018	23.39182	3.68	0.65443	3.72	0.25666	1.89	3226	58	101.1
kikel87	4A33		5	6	40	51.4	10	203000	196365	07-03-02		0.5511	22.84547	3.05	0.61459	2.85	0.2658	2.77	3280	88	98.8
kikel88	4A34		5	6	40	43.3	10	113120	146285	07-03-02		0.4455	22.8881	2.78	0.63725	2.04	0.25839	1.92	3236	60	100.2
kikem27	4A05b	2nd int	5	6	40	29.8	10	38287	25564	07-03-02		0.5417	29.2286	3.63	0.83712	4.67	0.25177	2.72	3194	86	109.0
kikem28	4A23b	2nd int	5	6	40	20.3	10	233011	191118	07-03-02	x	0.5027	35.60409	6.35	1.0345	5.55	0.24675	3.11	3164	100	116.2

**KB810 LA-ICP-MS U-Pb analysis**

data file	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikej53	5E01		5	6	60	100	10	129854	229741	05-03-02		0.2302	23.27137	5.15	0.64637	2.31	0.25950	5.81	3242	184	100.5
kikej54	5E02		5	6	40	79.7	10	86261	142709	05-03-02		0.2514	23.71620	3.02	0.64896	3.06	0.26634	1.76	3284	54	99.8
kikej55	5E03		5	6	40	106.8	10	149542	276517	05-03-02		0.2073	23.00256	2.04	0.63763	2.36	0.26350	1.30	3266	42	99.4
kikej56	5E04		5	6	40	140.6	10	48932	105305	05-03-02		0.1876	25.84858	1.72	0.72470	1.62	0.25937	1.41	3242	44	103.7
kikek01	5E05		5	6	40	58.1	10	62028	181728	06-03-02		0.1260	24.25510	2.43	0.67862	2.46	0.25948	1.74	3242	56	101.7
kikek02	5E06		5	6	40	85.1	49.1	88939	203518	06-03-02		0.1497	22.89427	2.59	0.64550	2.76	0.25650	1.82	3224	56	100.6
kikek03	5E07		5	6	60	98.7	10	262149	173425	06-03-02		0.5553	23.44630	1.78	0.65328	1.74	0.25977	1.06	3244	32	100.6
kikek04	5E08		5	6	40	75.7	10	192890	245556	06-03-02		0.2894	22.69200	3.08	0.64790	3.35	0.25380	1.47	3208	46	100.8
kikek05	5E09		5	6	40	77.1	10	196199	288818	06-03-02		0.2476	23.59497	2.15	0.65232	2.34	0.26303	1.62	3264	52	100.2
kikek06	5E10		5	6	40	82.5	10	106035	96926	06-03-02		0.3909	23.40318	2.95	0.64771	2.48	0.26212	2.08	3258	64	100.2
kikek07	5E11		5	6	40	50	10	82602	77548	06-03-02		0.3833	22.23081	2.50	0.63696	2.09	0.25325	2.76	3204	88	100.3
kikek08	5E12		5	6	60	73	10	52524	143243	06-03-02		0.1436	24.80743	2.41	0.67526	2.56	0.26618	1.85	3282	58	101.2
kikek09	5E13		5	6	60	39.2	10	428055	687731	06-03-02		0.2706	19.12284	3.22	0.55939	2.91	0.24946	2.17	3180	68	96.5
kikek10	5E14		5	6	60	55.4	10	284970	204956	06-03-02		0.6046	21.61919	3.77	0.59270	2.99	0.26454	2.06	3272	64	97.4
kikek11	5E15		5	6	60	55.4	10	209448	146382	06-03-02		0.6417	21.56921	3.18	0.60422	3.10	0.25913	1.99	3240	64	98.3
kikek12	5E16		5	6	60	64.9	10	67407	251554	06-03-02		0.1091	18.94232	5.51	0.54854	3.62	0.25109	5.76	3190	182	95.9
kikek13	5E17		5	6	60	97.4	59.1	117205	108231	06-03-02		0.4213	21.48768	4.42	0.61008	2.18	0.25552	5.22	3218	164	98.8
kikek14	5E18		5	6	60	56.8	10	142692	165171	06-03-02		0.3672	20.46230	2.63	0.56621	2.17	0.26178	1.71	3256	54	96.2
kikek15	5E19		5	6	60	64.9	10	316667	615201	06-03-02		0.2093	19.39734	4.40	0.56582	4.31	0.24979	1.72	3182	56	96.8
kikek16	5E20		5	6	60	35.2	10	86148	246249	06-03-02		0.1370	22.14937	6.01	0.61805	5.76	0.25852	2.64	3236	84	99.2
kikek17	5E21		5	6	60	50	10	378218	359090	06-03-02		0.4603	21.32931	3.01	0.59808	3.18	0.25873	2.15	3238	68	98.0
kikek18	5E22		5	6	40	71.6	10	28984	108557	06-03-02		0.0971	19.34559	2.21	0.57331	2.30	0.24469	2.05	3150	66	97.7
kikek19	5E23		5	6	60	56.8	10	70004	207380	06-03-02		0.1180	16.26996	2.98	0.49555	3.22	0.23788	1.78	3104	56	93.8
kikek20	5E24		5	6	40	51.4	10	33756	118756	06-03-02		0.1046	22.89025	2.99	0.64675	2.51	0.25639	2.40	3224	76	100.6
kikek21	5E25		5	6	40	46	10	132767	376830	06-03-02		0.1244	17.94213	3.87	0.52762	3.12	0.24681	3.05	3164	96	95.0
kikek22	5E26		5	6	40	89.2	10	123547	347042	06-03-02		0.1327	22.93563	6.18	0.64512	4.68	0.25815	2.49	3234	80	100.3
kikek23	5E27		5	6	60	101.4	10	69968	233003	06-03-02		0.1169	21.03933	2.28	0.59770	3.64	0.25511	1.42	3216	44	98.3
kikek24	5E28		5	6	60	108.1	10	137162	342324	06-03-02		0.1477	20.25356	2.51	0.58080	2.74	0.25166	1.23	3194	40	97.8
kikek25	5E29		5	6	60	37.9	10	52087	255659	06-03-02		0.0910	19.57962	4.14	0.57264	3.44	0.24842	2.44	3174	78	97.4
kikek26	5E30		5	6	60	74.3	10	40648	111936	06-03-02		0.1289	22.18093	2.04	0.63082	1.77	0.25478	1.37	3214	44	99.9
kikek27	5E31		5	6	60	47.3	38.8	144926	145407	06-03-02		0.4304	23.80988	4.39	0.66115	3.91	0.26152	1.49	3254	46	100.8
kikek28	5E32		5	6	60	169	10	133601	118258	06-03-02		0.4294	21.52423	2.30	0.61882	3.05	0.25273	1.61	3200	50	99.4

datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
kikek29	5E33		5	6	40	150.1	10	71196	55059	06-03-02		0.4835	22.15231	1.92	0.63322	1.89	0.25327	1.53	3204	48	100.2
kikek30	5E34	thin	5	6	40	27.1	10	226900	322906	06-03-02		0.2252	22.51462	2.99	0.64618	1.66	0.25267	3.18	3200	100	100.8
kikek31	5E35		5	6	40	129.8	10	33034	114860	06-03-02		0.1059	22.50041	3.39	0.65885	2.78	0.24844	1.65	3174	52	101.6
kikek32	5E36	spike	5	6	60	119	10	152714	126144	06-03-02	x	0.5308	25.99381	4.17	0.62966	2.93	0.29893	22.23	3464	704	97.2
kikek33	5E37		5	6	60	75.7	10	376210	277005	06-03-02	x	0.5992	23.19807	11.35	0.60701	3.68	0.27735	10.02	3348	316	97.2
kikek34	5E38		5	6	60	82.4	10	354302	221066	06-03-02		0.6869	23.60526	3.15	0.64032	2.80	0.26679	1.88	3286	60	99.6
kikek35	5E39		5	6	60	91.9	10	102458	103229	06-03-02		0.4067	21.44544	2.36	0.61526	2.22	0.25229	1.65	3198	52	99.4
kikek36	5E40		5	6	60	66.2	10	49544	70101	06-03-02		0.2988	20.97955	2.38	0.59059	2.78	0.25827	2.18	3236	70	97.6
kikek37	5E41		5	6	80	112.2	10	77898	122326	06-03-02	x	0.2521	22.20298	3.43	0.65126	9.22	0.24754	2.82	3168	90	101.4
kikek38	5E42		5	6	60	91.9	10	51444	65874	06-03-02		0.2929	20.42820	2.16	0.59318	1.78	0.24918	1.65	3178	52	98.5
kikek39	5E43		5	6	60	81.1	10	147105	152100	06-03-02	x	0.3899	21.81000	2.70	0.64234	8.01	0.24688	2.60	3164	82	101.0
kikek40	5E44		5	6	60	140.6	10	48811	155014	06-03-02	x	0.1323	23.18856	7.33	0.63302	3.90	0.26486	7.91	3274	250	99.4
kikek41	5E45		5	6	60	150	10	120079	130858	06-03-02		0.3709	22.06166	2.57	0.63552	3.00	0.25197	1.57	3196	48	100.3
kikek42	5E46		5	6	60	75.7	228.3	98317	267759	06-03-02		0.1429	20.54031	3.18	0.62410	2.93	0.23883	2.03	3112	66	100.8
kikek43	5E47		5	6	60	48.7	10	97991	363288	06-03-02		0.1149	24.46247	3.82	0.70243	3.41	0.25335	1.75	3204	56	103.2
kikek44	5E48		5	6	60	73	10	79067	275577	06-03-02		0.1144	21.26492	1.94	0.59558	1.71	0.25829	1.60	3236	50	98.0
kikek45	5E49		5	6	60	108.2	10	301673	631059	06-03-02		0.1922	21.11087	3.33	0.58301	3.04	0.26276	3.23	3262	102	97.0
kikek46	5E50		5	6	60	104.1	10	99467	272833	06-03-02		0.1445	22.49786	1.98	0.64598	1.76	0.25183	1.22	3196	38	100.9
kikek47	5E51		5	6	60	108.1	10	71563	227554	06-03-02		0.1272	22.33195	2.75	0.62630	2.21	0.25896	2.03	3240	66	99.3
kikek48	5E52		5	6	60	105.5	10	429092	611389	06-03-02		0.3090	22.64780	3.16	0.61421	3.16	0.26782	1.94	3292	60	98.2
kikek49	5E53		5	6	60	116.2	10	216104	173235	06-03-02		0.4777	23.96580	5.21	0.67046	6.50	0.25774	5.23	3232	164	101.7
kikek50	5E54		5	6	60	81.1	10	93429	283984	06-03-02		0.1293	22.20298	3.27	0.61958	2.72	0.25979	1.85	3244	58	99.0
kikek51	5E55		5	6	60	81.1	10	177988	156844	06-03-02		0.4775	20.18535	1.51	0.56246	1.46	0.26041	1.24	3248	40	96.1
kikek52	5E56		5	6	60	78.4	10	135300	145788	06-03-02		0.3656	21.60430	1.73	0.59914	1.84	0.26095	1.44	3252	46	98.0
kikek53	5E57		5	6	60	142	10	219035	229375	06-03-02	x	0.4404	26.68667	21.81	0.62035	2.50	0.31291	16.89	3534	526	96.0
kikek54	5E58		5	6	60	163.6	10	91030	115189	06-03-02		0.3423	21.65134	2.42	0.61315	2.34	0.25639	1.53	3224	48	98.9
kikek55	5E59		5	6	60	102.7	10	92211	117967	06-03-02		0.3115	20.63998	1.85	0.58147	1.91	0.25704	1.40	3228	44	97.3
kikek56	5E60		5	6	60	113.5	10	164249	178245	06-03-02		0.3937	22.33381	1.92	0.63466	2.12	0.25540	1.61	3218	50	100.0

### 91500 LA-ICP-MS U-Pb analysis

data file	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
zstdg01	91500		10	6	120	100	5	97574	469351	26-02-02		0.1049	1.805552	1.32	0.17059	0.94	0.07689	1.07	1118	42	94.9
zstdg02	91500		10	6	120	93.2	5	108190	498693	26-02-02		0.1068	1.758708	1.39	0.16762	1.13	0.07629	1.11	1102	44	94.6
zstdg03	91500		10	6	120	113.6	8.1	95990	455926	26-02-02		0.106	1.721566	1.27	0.16838	0.94	0.07424	1.12	1046	46	98.5
zstdg04	91500		5	6	60	104.1	5	14593	71191	26-02-02		0.1266	1.76743	7.92	0.16704	5.58	0.07683	7.38	1116	294	93.8
zstdg05	91500		5	6	40	74.3	5	7285	32505	26-02-02	x	0.223	2.073092	14.84	0.17117	7.82	0.08788	13.77	1378	534	83.7
zstdg06	91500		5	6	40	64.9	5	6926	33976	26-02-02		0.1537	1.815352	8.80	0.15581	7.01	0.0847	10.30	1308	402	81.3
zstdg07	91500		5	6	40	77	5	6581	33565	26-02-02		0.1212	1.483622	15.12	0.1583	6.70	0.06803	14.42	868	604	107.8
zstdg08	91500		5	6	40	73	5	6948	31615	26-02-02		0.1527	1.80222	11.83	0.16262	9.04	0.08015	15.62	1200	624	88.3
zstdg09	91500		6	6	40	78.4	5	7263	33627	26-02-02		0.1126	1.767822	10.25	0.18298	8.35	0.07062	10.01	946	412	110.7
zstdg10	91500		6	6	40	75.7	5	6992	35063	26-02-02		0.137	1.636698	8.27	0.16061	7.66	0.07454	11.57	1056	470	94.4
zstdg11	91500		6	6	40	75.7	5	6992	33220	26-02-02		0.1411	1.775466	8.93	0.16435	8.42	0.07849	10.27	1158	410	90.7
zstdg12	91500		6	6	40	77	5	7605	38451	26-02-02		0.1365	1.668842	6.43	0.16272	5.40	0.07432	7.10	1050	288	96.2
zstdg13	91500		6	6	40	79.8	5	7860	33362	26-02-02		0.1145	1.869056	6.89	0.18221	6.98	0.07454	8.69	1056	350	102.7
zstdg14	91500		6	6	40	75.7	5	7253	32270	26-02-02	x	0.2215	1.689422	17.96	0.16675	7.97	0.07355	16.95	1028	696	98.9
zstdg15	91500		6	6	40	77	5	6947	36197	26-02-02		0.1022	1.826272	9.44	0.17405	6.83	0.07601	6.84	1094	274	97.6









datafile	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
zstdr05	91500		8	6	60	50	5	112078	441775	04-11-02		0.1043	1.806238	2.59	0.17654	2.44	0.07416	1.92	1044	76	101.6
zstdr06	91500		8	6	60	52.7	5	114633	441413	04-11-02		0.1076	1.80173	3.75	0.17184	1.85	0.07597	3.43	1094	136	96.8
zstdr07	91500		8	6	60	70.3	5	92173	361492	04-11-02		0.107	1.922858	3.70	0.18653	2.85	0.07491	2.77	1064	112	103.7
zstdr08	91500		8	6	60	51.4	5	102668	416766	04-11-02		0.1147	1.82623	2.88	0.17731	2.96	0.07475	2.54	1060	102	100.8
zstdr09	91500		8	6	60	58.1	5	101943	405527	04-11-02		0.1082	1.786246	2.72	0.17568	2.37	0.07376	1.99	1034	80	101.9
zstdr10	91500		8	6	60	47.3	5	102656	413026	04-11-02		0.1099	1.82084	3.08	0.1776	3.04	0.07446	1.65	1052	66	101.3
zstdr11	91500		8	6	60	68.9	5	103084	384758	04-11-02		0.114	1.801926	2.53	0.1727	2.07	0.07561	2.32	1084	94	97.7
zstdr12	91500		8	6	60	51.4	5	97466	399970	04-11-02		0.1144	1.97274	3.07	0.18182	3.26	0.07889	2.52	1168	100	95.9

### CZ3 LA-ICP-MS U-Pb analysis

data file	spot	comm	rep (Hz)	pwr (Jcm-2)	spot (mu)	sign (s)	Pb 204	Th 232	U 238	date	reject	208/206	207/235	% 2rsd	206/238	% 2rsd	207/206	% 2rsd	207/206 AGE	% 2rsd	% conc
cz3sr05	CZ3		8	6	60	40.6	34.3	115884	3E+06	04-11-02		0.0184	0.702856	3.51	0.08813	3.12	0.05788	1.77	524	78	104.77
cz3sr06	CZ3		8	6	60	25.7	25.3	103995	2E+06	04-11-02		0.0196	0.700896	2.36	0.08803	2.66	0.05787	1.77	524	78	104.58
cz3sr07	CZ3		8	6	60	17.6	28.3	89436	2E+06	04-11-02	x	0.0175	0.741272	2.63	0.09437	4.14	0.05723	3.54	500	156	114.4
cz3sr08	CZ3		6	6	60	50	10.3	82349	2E+06	04-11-02		0.0188	0.734608	3.42	0.09082	3.39	0.05886	1.67	560	72	101.43
cz3sr09	CZ3		6	6	60	71.6	12.4	80411	2E+06	04-11-02		0.0184	0.741174	2.50	0.09254	2.36	0.05817	1.35	536	58	106.72
cz3sr10	CZ3		6	6	60	73	12.8	84695	2E+06	04-11-02		0.0188	0.722946	2.51	0.08765	2.50	0.05995	2.00	600	88	93.5
cz3sr11	CZ3		6	6	60	52.7		82191	2E+06	04-11-02		0.0181	0.757638	3.25	0.08995	2.91	0.06129	1.50	648	64	89.815
cz3sr12	CZ3		6	6	60	60.8	12.5	82527	2E+06	04-11-02		0.0178	0.734902	3.71	0.0912	3.68	0.05864	1.86	552	80	102.9
cz3sr13	CZ3		6	6	60	27.1	15.9	81769	2E+06	04-11-02		0.019	0.719712	4.67	0.08726	3.52	0.06001	2.94	604	128	92.55
cz3sr14	CZ3		6	6	60	39.2	10.1	80918	2E+06	04-11-02		0.0191	0.76293	2.92	0.0936	2.65	0.05935	1.73	578	76	101.21
cz3sr15	CZ3		6	6	60	21.7	13.6	77618	2E+06	04-11-02		0.0192	0.768026	3.97	0.09302	4.25	0.05998	3.68	602	160	97.674
cz3sr16	CZ3		6	6	60	24.3	31.1	79029	2E+06	04-11-02		0.0339	0.79086	5.28	0.09523	5.22	0.06051	4.44	620	192	96.935
cz3sr17	CZ3		6	6	60	40.6	5	75133	2E+06	04-11-02		0.0191	0.759598	3.92	0.09149	3.83	0.06031	2.03	614	86	94.951
cz3sr18	CZ3		6	6	40	120.3	5	25556	648748	04-11-02		0.017	0.798896	1.46	0.09994	0.91	0.05803	1.26	530	56	114.15
cz3sr19	CZ3		6	6	40	83.8	5	29379	756755	04-11-02		0.02	0.79331	1.71	0.09754	1.19	0.05925	1.58	576	70	104.51
cz3sr20	CZ3		8	6	40	91.9	5	34927	879806	04-11-02		0.0178	0.846524	1.33	0.10291	0.73	0.0597	1.26	592	54	106.76
cz3sr21	CZ3		8	6	40	85.1	10.5	37587	940307	04-11-02		0.018	0.804286	1.69	0.10022	0.73	0.05832	1.60	540	70	112.59
cz3sr22	CZ3		8	6	40	64.9	5	36995	941004	04-11-02		0.0186	0.817222	2.04	0.10118	0.96	0.05862	1.98	552	86	111.59
cz3sr23	CZ3		8	6	60	85.1	43.8	85579	2E+06	04-11-02		0.0192	0.742742	2.74	0.09408	2.64	0.05739	1.38	506	60	113.24
cz3sr24	CZ3		8	6	60	71.7	30.2	86250	2E+06	04-11-02		0.0187	0.753032	3.36	0.0959	3.55	0.0572	1.80	498	80	116.27

**KB264 SHRIMP**

spot	U/ppm	Th/ppm	Total Pb	208/206	1rsd	207/235	1rsd	206/238	1rsd	207/206	1rsd	208/232	1rsd	AGE 207/206	1rsd	%conc
264a-11.1	151	107	121	0.190875	0.001502	23.081307	0.566313	0.641942	0.015169	0.26077343	0.00111618	0.171976	0.004379	3251	7	98
264a-4.1	150	99	126	0.175592	0.001449	24.388923	0.597905	0.679661	0.016074	0.2602549	0.00107805	0.181008	0.004643	3248	7	103
264a-5.1	128	85	99	0.178442	0.002455	21.694764	0.539942	0.604695	0.01428	0.26020609	0.00141592	0.162371	0.004518	3248	9	94
264a-17.1	119	91	97	0.204274	0.001577	23.052899	0.567208	0.642761	0.015213	0.26012041	0.00114121	0.171969	0.004383	3247	7	99
264a-14.1	160	97	130	0.158935	0.001409	23.771075	0.58139	0.66409	0.01568	0.25960951	0.00105899	0.173993	0.004487	3244	6	101
264a-13.1	235	161	198	0.181089	0.001085	24.394106	0.587685	0.675907	0.015876	0.26175612	0.00083048	0.178372	0.004389	3257	5	102
264a-25.1	343	245	287	0.19129	0.000751	23.869562	0.568656	0.668292	0.015637	0.25904595	0.00062819	0.179121	0.004291	3241	4	102
264b-7.1	124	89	105	0.190352	0.002243	23.665111	0.589274	0.661861	0.015676	0.25932265	0.00136781	0.174884	0.004727	3243	8	101
264b-25.1	91	44	74	0.12249	0.001641	24.367571	0.610521	0.678426	0.016192	0.2605005	0.0013556	0.173807	0.004938	3250	8	103
264b-42.1	137	90	114	0.176409	0.001262	23.997376	0.586977	0.669221	0.015821	0.2600714	0.0010363	0.178553	0.004517	3247	6	102
264b-44.1	96	50	74	0.136665	0.001679	22.990391	0.574451	0.639767	0.015233	0.2606294	0.00134519	0.167431	0.004641	3251	8	98
264b-59.1	121	81	98	0.18118	0.001417	23.328187	0.575472	0.64458	0.015287	0.2624839	0.00116629	0.174121	0.004472	3262	7	98
264b-46.1	86	47	69	0.151423	0.001586	23.767902	0.593263	0.659031	0.015709	0.26156754	0.0013088	0.180999	0.004886	3256	8	100
264b-45.1	116	49	90	0.112593	0.001378	23.730127	0.587653	0.657251	0.015608	0.26185902	0.00121961	0.174965	0.00484	3258	7	100
264b-40.1	104	44	83	0.110958	0.001494	24.211778	0.601271	0.671989	0.015967	0.26131445	0.00126399	0.175616	0.004962	3255	8	102
264b-54.1	246	172	202	0.189567	0.000918	23.681505	0.568119	0.656762	0.015403	0.26151712	0.00075986	0.177401	0.004304	3256	5	100
264b-36.1	133	55	102	0.111214	0.001125	23.2286	0.568354	0.648732	0.015334	0.25969088	0.00104505	0.175387	0.004647	3245	6	99
264b-17.1	196	129	163	0.178171	0.001046	24.289625	0.586372	0.671469	0.015784	0.26235748	0.00086425	0.181591	0.004473	3261	5	102
264b-13.1	158	102	130	0.173727	0.001123	23.892899	0.580364	0.661953	0.015595	0.26178255	0.00095837	0.177596	0.004426	3257	6	101
264b-13.2	163	112	116	0.148426	0.001197	20.249254	0.492196	0.58702	0.013805	0.25018118	0.00096875	0.126394	0.003195	3186	6	93
264b-3.1	118	108	89	0.203617	0.001857	21.18369	0.523692	0.592672	0.014008	0.25923045	0.00126301	0.132054	0.00341	3242	8	93

**KB265 SHRIMP**

spot	U/ppm	Th/ppm	Total Pb	208/206	1rsd	207/235	1rsd	206/238	1rsd	207/206	1rsd	208/232	1rsd	AGE 207/206	1rsd	%conc
264a-11.1	151	107	121	0.190875	0.001502	23.081307	0.566313	0.641942	0.015169	0.26077343	0.00111618	0.171976	0.004379	3251	7	98
264a-4.1	150	99	126	0.175592	0.001449	24.388923	0.597905	0.679661	0.016074	0.2602549	0.00107805	0.181008	0.004643	3248	7	103
264a-5.1	128	85	99	0.178442	0.002455	21.694764	0.539942	0.604695	0.01428	0.26020609	0.00141592	0.162371	0.004518	3248	9	94
264a-17.1	119	91	97	0.204274	0.001577	23.052899	0.567208	0.642761	0.015213	0.26012041	0.00114121	0.171969	0.004383	3247	7	99
264a-14.1	160	97	130	0.158935	0.001409	23.771075	0.58139	0.66409	0.01568	0.25960951	0.00105899	0.173993	0.004487	3244	6	101
264a-13.1	235	161	198	0.181089	0.001085	24.394106	0.587685	0.675907	0.015876	0.26175612	0.00083048	0.178372	0.004389	3257	5	102
264a-25.1	343	245	287	0.19129	0.000751	23.869562	0.568656	0.668292	0.015637	0.25904595	0.00062819	0.179121	0.004291	3241	4	102
264b-7.1	124	89	105	0.190352	0.002243	23.665111	0.589274	0.661861	0.015676	0.25932265	0.00136781	0.174884	0.004727	3243	8	101
264b-25.1	91	44	74	0.12249	0.001641	24.367571	0.610521	0.678426	0.016192	0.2605005	0.0013556	0.173807	0.004938	3250	8	103
264b-42.1	137	90	114	0.176409	0.001262	23.997376	0.586977	0.669221	0.015821	0.2600714	0.0010363	0.178553	0.004517	3247	6	102
264b-44.1	96	50	74	0.136665	0.001679	22.990391	0.574451	0.639767	0.015233	0.2606294	0.00134519	0.167431	0.004641	3251	8	98
264b-59.1	121	81	98	0.18118	0.001417	23.328187	0.575472	0.64458	0.015287	0.2624839	0.00116629	0.174121	0.004472	3262	7	98
264b-46.1	86	47	69	0.151423	0.001586	23.767902	0.593263	0.659031	0.015709	0.26156754	0.0013088	0.180999	0.004886	3256	8	100
264b-45.1	116	49	90	0.112593	0.001378	23.730127	0.587653	0.657251	0.015608	0.26185902	0.00121961	0.174965	0.00484	3258	7	100
264b-40.1	104	44	83	0.110958	0.001494	24.211778	0.601271	0.671989	0.015967	0.26131445	0.00126399	0.175616	0.004962	3255	8	102
264b-54.1	246	172	202	0.189567	0.000918	23.681505	0.568119	0.656762	0.015403	0.26151712	0.00075986	0.177401	0.004304	3256	5	100
264b-36.1	133	55	102	0.111214	0.001125	23.2286	0.568354	0.648732	0.015334	0.25969088	0.00104505	0.175387	0.004647	3245	6	99
264b-17.1	196	129	163	0.178171	0.001046	24.289625	0.586372	0.671469	0.015784	0.26235748	0.00086425	0.181591	0.004473	3261	5	102
264b-13.1	158	102	130	0.173727	0.001123	23.892899	0.580364	0.661953	0.015595	0.26178255	0.00095837	0.177596	0.004426	3257	6	101
264b-13.2	163	112	116	0.148426	0.001197	20.249254	0.492196	0.58702	0.013805	0.25018118	0.00096875	0.126394	0.003195	3186	6	93
264b-3.1	118	108	89	0.203617	0.001857	21.18369	0.523692	0.592672	0.014008	0.25923045	0.00126301	0.132054	0.00341	3242	8	93

**KB351 SHRIMP**

labels	U/ppm	Th/ppm	Total Pb	208/206	1rsd	207/235	1rsd	206/238	1rsd	207/206	1rsd	208/232	1rsd	AGE 207/206	+/-	%conc
351-2-1.1	2463	3762	2096	0.362418	0.000357	21.736903	0.494112	0.607931	0.013746	0.25932372	0.00021871	0.144256	0.003268	3243	1	94
351-2-21.1	413	1306	179	0.177157	0.002185	10.066575	0.239657	0.339249	0.007702	0.21520993	0.00104723	0.018981	0.000492	2945	8	64
351-2-4.1	849	1619	149	0.300831	0.006344	3.424476	0.09328	0.111839	0.002552	0.22207533	0.00272907	0.017647	0.00055	2996	20	23
351-2-34.1	638	409	430	0.164428	0.000627	16.698381	0.383881	0.563171	0.01276	0.21504668	0.00042668	0.144458	0.003335	2944	3	98
351-2-26.1	547	422	390	0.179709	0.000721	20.269587	0.465904	0.571174	0.012943	0.25738034	0.00050103	0.13318	0.003079	3231	3	90
351-2-25.1	1298	974	1154	0.271365	0.000384	23.954916	0.545881	0.674438	0.01526	0.25760318	0.0002802	0.243884	0.005542	3232	2	103
351-2-27.1	1648	2379	1409	0.351335	0.000431	21.958825	0.500056	0.615315	0.013918	0.25882726	0.00026971	0.149749	0.003397	3240	2	95
351-2-42.1	577	510	413	0.235868	0.00069	19.681782	0.452094	0.554	0.012553	0.25766359	0.00048434	0.14795	0.003395	3232	3	88
351-2-41.1	1622	978	1361	0.159807	0.000285	24.503171	0.557731	0.685189	0.015497	0.25936446	0.0002569	0.181633	0.004129	3243	2	104
351-2-45.1	58	38	44	0.174239	0.00204	20.480418	0.510575	0.622079	0.01453	0.23877675	0.00149751	0.166483	0.00453	3112	10	100
351-2-48.1	822	750	653	0.237202	0.000465	21.79205	0.498285	0.617505	0.013983	0.2559508	0.00036477	0.16045	0.003658	3222	2	96
351-2-39.1	1786	1699	1303	0.261161	0.000369	19.108158	0.435025	0.560324	0.012671	0.24733083	0.00025602	0.153814	0.00349	3168	2	91
351-2-51.1	1887	2336	1775	0.306447	0.000353	25.284264	0.575213	0.694653	0.015711	0.26398615	0.00024204	0.171935	0.003899	3271	1	104
351-2-29.1	180	103	145	0.097375	0.000949	29.826991	0.696758	0.648628	0.014809	0.33351282	0.00095125	0.110438	0.002784	3633	4	89
351-2-40.1	424	589	153	0.094712	0.001711	10.359599	0.243194	0.299649	0.006798	0.25074286	0.00096121	0.020446	0.000595	3189	6	53
351-3a-5.1	1083	1904	979	0.472894	0.000688	21.719792	0.224844	0.602369	0.006081	0.26151214	0.00035337	0.162052	0.001669	3256	2	93
351-3a-1.1	179	119	148	0.177733	0.001048	23.785276	0.273275	0.668955	0.007105	0.25787551	0.00083822	0.17836	0.002313	3234	5	102
351-3a-2.1	1444	1532	1179	0.259975	0.000486	21.838089	0.224948	0.621918	0.006264	0.2546715	0.0003154	0.152297	0.001574	3214	2	97
351-3a-6.1	203	91	151	0.118043	0.000866	22.424138	0.253858	0.622028	0.006555	0.2614596	0.00079039	0.164676	0.00226	3256	5	96
351-3a-8.1	172	169	130	0.183669	0.001447	24.260775	0.283505	0.581514	0.006227	0.30258213	0.00106787	0.108634	0.001522	3483	5	85
351-3b-4.1	1092	1638	192	0.21355	0.002679	4.40784	0.052424	0.128668	0.001302	0.24845923	0.00126978	0.018315	0.000297	3175	8	25
351-3b-16.1	3509	3368	2728	0.244893	0.000244	19.665607	0.199574	0.608001	0.006102	0.23458578	0.00016451	0.155101	0.001572	3084	1	99
351-3b-7.1	1482	502	936	0.105617	0.000451	16.471781	0.170596	0.547765	0.005522	0.21809473	0.00031186	0.170925	0.001904	2967	2	95
351-3b-3.1	809	462	604	0.267017	0.000633	18.415351	0.19257	0.573758	0.00581	0.23278243	0.00038116	0.268648	0.002853	3071	3	95
351-3b-8.1	2300	3620	1874	0.384627	0.000416	19.510805	0.199524	0.579668	0.005831	0.2441152	0.00023669	0.141646	0.001442	3147	2	94
351-3b-19.1	641	385	386	0.130986	0.000576	16.784159	0.177279	0.50636	0.005142	0.24040226	0.00045705	0.110407	0.00125	3123	3	85
351-3b-24.1	2702	2590	1595	0.251691	0.000319	14.362401	0.146646	0.463494	0.004654	0.22474066	0.00021953	0.12173	0.00124	3015	2	81
351-3-25.1	837	725	554	0.19247	0.000563	18.218378	0.190623	0.530575	0.005375	0.24903564	0.0004081	0.117836	0.001264	3179	3	86
351-3-34.1	1302	1404	1135	0.280893	0.000449	23.317135	0.240479	0.656682	0.006628	0.25752453	0.00031066	0.171039	0.001767	3232	2	101
351-2-21.2	429	770	238	0.147352	0.001595	13.734649	0.187725	0.461232	0.005788	0.21597169	0.00087877	0.037829	0.000635	2951	7	83
351-2-21.3	703	2826	250	0.146233	0.002538	8.436043	0.120146	0.279308	0.003482	0.21905553	0.0012049	0.101155	0.000218	2974	9	53
351-2-34.2	475	299	282	0.127839	0.001071	14.961055	0.198589	0.506004	0.006327	0.21444038	0.0006777	0.102826	0.001582	2939	5	90
351-2-34.3	421	234	275	0.14341	0.001111	16.347963	0.218462	0.552242	0.006931	0.21470041	0.00070397	0.142394	0.002162	2941	5	96
351-3a-7.2	1714	1128	1229	0.185244	0.000488	19.304629	0.350473	0.579351	0.010383	0.24166778	0.00034365	0.163066	0.002968	3131	2	94
351-3a-24.2	2319	1797	1720	0.209082	0.00031	20.620847	0.372488	0.587729	0.010526	0.25446508	0.00025671	0.158649	0.002861	3213	2	93
351-3a-24.3	2011	1614	1233	0.205127	0.000386	16.350372	0.296039	0.491197	0.008796	0.24141851	0.00030062	0.125525	0.002268	3129	2	82
351-3b-46.1	656	923	196	0.135021	0.002034	8.23851	0.135459	0.23474	0.003622	0.2545427	0.00103657	0.022532	0.000488	3213	6	42
351-3b-32.1	2477	2668	2006	0.287647	0.000339	21.087666	0.32668	0.610865	0.009374	0.25036969	0.0002364	0.163155	0.002518	3187	1	96
351-3b-43.1	1050	520	361	0.176179	0.001	9.284662	0.147329	0.275367	0.004236	0.24454198	0.00059098	0.097996	0.001623	3150	4	50

**KB351 SHRIMP continued**

labels	U/ppm	Th/ppm	Total Pb	208/206	1rsd	207/235	1rsd	206/238	1rsd	207/206	1rsd	208/232	1rsd	AGE 207/206	+/-	%conc
351-3b-53.1	1512	843	688	0.089423	0.000421	12.783328	0.19957	0.396757	0.006094	0.23367828	0.00034404	0.063619	0.001028	3077	2	70
351-3b-50.1	295	354	190	0.179886	0.001718	17.384126	0.28644	0.50821	0.007906	0.24808939	0.00094827	0.07632	0.001412	3173	6	83
351-3b-48.1	1667	1902	1446	0.293872	0.000403	23.297107	0.36201	0.646728	0.009936	0.26126362	0.00028612	0.166615	0.002581	3254	2	99
351-3b-84.1	1458	1041	1139	0.181669	0.000347	22.548522	0.350805	0.6281	0.009653	0.26036809	0.00030334	0.159717	0.002488	3249	2	97
351-3b-65.1	2303	2741	2321	0.371188	0.000424	22.525492	0.349233	0.72801	0.011175	0.22440661	0.00022108	0.227059	0.003505	3013	2	117
351-3b-75.1	1804	1517	1391	0.22849	0.000341	21.10748	0.327477	0.602317	0.009247	0.25416156	0.00026074	0.163664	0.002535	3211	2	95
351-3b-72.1	1679	2295	1665	0.329816	0.000471	25.22461	0.391617	0.720732	0.011067	0.25383387	0.00027196	0.173965	0.002691	3209	2	109
351-3b-71.1	1592	341	496	0.111869	0.000718	8.250076	0.129706	0.265571	0.004077	0.22530758	0.00044443	0.138513	0.00233	3019	3	50
351-3b-60.1	386	644	214	0.124909	0.001169	16.301867	0.262994	0.458085	0.007094	0.25810113	0.00076966	0.03434	0.000627	3235	5	75
351-3b-79.1	532	1914	265	0.163769	0.001738	13.36052	0.217877	0.391513	0.006053	0.2475002	0.0008914	0.01781	0.000336	3169	6	67
351-3b-80.1	1578	1716	1409	0.27943	0.000393	24.095004	0.374423	0.672233	0.010329	0.25995962	0.00028305	0.172716	0.002677	3246	2	102

KB770

## LA-ICP-MS trace element analysis

KB770	spot	5CT3-1	5CT18-1	5CT18-2	5CT6-1	5CT2-1	5CT5-1	5CT7-1	5CT14-1	5CT18-3	5CT17-2	5CT17-4	5CT15-1	5CT16-1	5CT17-1	5CT4-1	5CT4-2
La		73.0	27.0	39.2	29.1	250.2	320.7	588.2	679.3	392.4	347.7	221.1	60.3	31.6	312.7	52.7	77.6
Ce		179.6	142.5	144.0	144.0	826.6	917.2	1971.7	2168.3	1539.7	934.5	755.6	79.7	49.5	255.9	116.7	109.5
Pr		170.5	106.3	132.6	101.1	793.7	973.7	1956.8	2036.8	1344.2	736.8	496.8	38.9	26.3	194.7	38.9	50.5
Nd		230.6	115.8	178.6	111.8	795.5	1068.7	2032.5	2127.4	1557.2	805.1	599.4	43.9	32.8	158.7	53.1	36.6
Sm		346.1	148.0	256.2	216.3	1034.0	1698.4	2368.0	2901.6	2321.9	1003.3	1130.1	51.3	51.3	89.2	95.4	105.2
Eu		119.0	34.5	77.6	86.2	358.6	527.6	596.6	775.9	734.5	300.0	420.7	25.9	14.1	25.9	29.3	22.4
Gd		369.8	184.4	301.2	236.5	841.8	1456.0	1756.2	2520.2	2160.6	901.7	1231.6	166.4	116.8	145.0	196.1	263.3
Dy		611.0	252.0	503.3	458.7	1285.2	1997.8	2261.0	3598.0	3181.1	1136.2	1488.4	666.3	450.6	514.4	575.2	1132.3
Ho		793.3	325.1	655.5	526.5	1356.9	2083.0	2243.8	3720.8	3288.0	1289.8	1678.4	1192.6	749.1	864.0	1015.9	1692.6
Er		784.9	401.2	734.1	698.5	1475.5	2259.2	2418.1	3800.0	3362.5	1472.5	1910.6	1941.4	1276.7	1412.1	1303.9	2994.6
Yb		1430.0	637.1	1230.6	1515.3	2436.2	3505.0	4350.0	6181.2	5520.9	3637.1	3882.6	4542.6	3108.8	4102.9	2719.4	6661.2
Lu		1661.4	692.9	1346.5	1972.4	2547.2	3637.8	4692.9	6141.7	5413.4	4039.4	4862.2	4590.6	3905.5	4523.6	2980.3	6366.1
P		591.4	212.0	352.3	501.2	895.0	2147.8	1421.4	2156.9	2213.2	1035.0	1799.4	914.1	519.4	1008.2	1249.8	930.6
Mn		43.6	7.7	20.8	37.0	112.4	143.9	242.0	229.2	138.5	124.3	97.6	30.6	61.6	156.9	47.8	33.8
Ga		3.4	1.8	4.5	1.2	9.3	9.3	22.1	22.4	13.8	8.4	6.9	1.1		3.4		3.1
Sr		9.8	8.5	12.4	11.3	24.6	42.8	58.8	67.8	57.9	42.5	38.3	11.8	6.8	33.6	6.8	14.6
Y		1296.4	520.0	979.0	970.9	2101.5	3403.5	3592.0	5733.5	5320.8	2180.4	3132.8	2003.6	1313.5	1587.8	1584.8	3082.9
Nb		15.0	15.7	16.1	17.9	46.9	26.4	85.1	89.3	68.0	39.1	18.2	18.0	16.4	22.0	21.4	46.0
Ba		10.4	9.0	11.8	12.1	45.1	78.7	161.7	179.0	150.0	87.7	114.9	10.9	9.9	43.4	4.1	22.1
La		17.3	6.4	9.3	6.9	59.3	76.0	139.4	161.0	93.0	82.4	52.4	14.3	7.5	74.1	12.5	18.4
Ce		109.9	87.2	88.1	88.1	505.9	561.3	1206.7	1327.0	942.3	571.9	462.4	48.8	30.3	156.6	71.4	67.0
Pr		16.2	10.1	12.6	9.6	75.4	92.5	185.9	193.5	127.7	70.0	47.2	3.7	2.5	18.5	3.7	4.8
Nd		107.7	54.1	83.4	52.2	371.5	499.1	949.2	993.5	727.2	376.0	279.9	20.5	15.3	74.1	24.8	17.1
Sm		53.0	22.7	39.2	33.1	158.2	259.9	362.3	444.0	355.3	153.5	172.9	7.9	7.9	13.7	14.6	16.1
Eu		6.9	2.0	4.5	5.0	20.8	30.6	34.6	45.0	42.6	17.4	24.4	1.5	0.8	1.5	1.7	1.3
Gd		76.0	37.9	61.9	48.6	173.0	299.2	360.9	517.9	444.0	185.3	253.1	34.2	24.0	29.8	40.3	54.1
Dy		155.2	64.0	127.9	116.5	326.5	507.5	574.3	913.9	808.0	288.6	378.1	169.3	114.5	130.7	146.1	287.6
Ho		44.9	18.4	37.1	29.8	76.8	117.9	127.0	210.6	186.1	73.0	95.0	67.5	42.4	48.9	57.5	95.8
Er		129.9	66.4	121.5	115.6	244.2	373.9	400.2	628.9	556.5	243.7	316.2	321.3	211.3	233.7	215.8	495.6
Yb		243.1	108.3	209.2	257.6	414.2	595.9	739.5	1050.8	938.6	618.3	660.1	772.3	528.5	697.5	462.3	1132.4
Lu		42.2	17.6	34.2	50.1	64.7	92.4	119.2	156.0	137.5	102.6	123.5	116.6	99.2	114.9	75.7	161.7
Hf		5983.7	6096.0	5943.4	5937.7	5814.4	5899.0	6023.4	6118.5	5997.6	5960.0	6085.5	6004.0	6011.2	5767.2	6074.1	5857.6
Th		141.6	75.0	145.9	104.0	477.4	177.0	1031.6	799.2	386.9	145.3	82.0	350.7	372.0	226.7	762.0	1114.3
U		421.0	177.6	391.7	481.7	713.3	1107.4	1931.9	2840.7	2212.5	1332.5	1166.2	1801.0	1394.3	1707.2	857.0	3983.9
GLITTER age		3248	3135	3058	3136	3281	3222	3319	3328	3393	3353	3306	2860	2785	2722	2818	2715
error		23	30	27	39	21	18	16	16	17	17	18	21	18	21	22	20
LAMTRACE age		3264	3256	3236	3308	3304	3238	3340	3302	3330	3288	3214	2852	2870	2960	2972	2988
error		64	82	74	132	48	86	38	70	58	92	56	98	118	88	116	84

KB770      KB770      LA-ICP-MS trace element analysis - cont'd

KB770	spot	5CT1-1	5CT9-1	5CT17-3	5CT12-1	5CT8-1	5CT13-1	5CT10-1	5CT11-1	5CT19-1
La		24.1	76.8	113.5	111.4	30.8	41.8	46.8	0.5	1.7
Ce		72.1	144.8	242.8	380.1	96.6	98.4	162.1	7.7	6.7
Pr		57.9	107.4	213.7	198.9	23.2	24.2	91.6	0.7	4.0
Nd		63.2	98.7	219.9	197.9	19.1	31.5	97.0	5.6	7.1
Sm		69.0	90.2	214.4	294.8	56.5	95.1	181.7	15.4	35.9
Eu		19.0	32.8	60.3	110.3	29.3	43.1	60.3	10.7	5.2
Gd		82.2	110.9	236.0	333.3	185.9	366.9	332.8	47.2	49.1
Dy		281.5	270.9	429.3	691.7	660.6	1190.0	771.5	191.3	197.6
Ho		425.8	477.0	697.9	952.3	1180.2	2030.0	1289.8	328.6	339.2
Er		732.9	820.5	969.8	1446.5	2278.5	2780.7	1758.3	506.3	543.8
Yb		1880.0	2475.0	2697.4	3550.0	4299.1	5493.2	3552.1	1066.5	2408.2
Lu		2236.2	3189.0	3366.1	4437.0	6649.6	6129.9	3606.3	1429.1	2944.9
P		301.2	490.1	557.6	1054.0	281.1	494.3	714.0	167.2	214.4
Mn		15.7	81.3	75.1	47.6	116.5	24.8	82.9		11.9
Ga		1.1	1.1	2.5	4.0	1.8	2.0			0.4
Sr		5.1	15.7	19.4	16.9	12.1	7.0	13.6	5.1	7.9
Y		809.2	795.3	1165.2	1673.7	1590.3	3079.5	2072.0	585.7	590.9
Nb		10.8	25.6	17.8	22.2	37.0	21.9	21.0	15.7	10.3
Ba		3.5	26.1	29.2	19.2	30.1	2.7	9.1		1.5
La		5.7	18.2	26.9	26.4	7.3	9.9	11.1	0.1	0.4
Ce		44.1	88.6	148.6	232.6	59.1	60.2	99.2	4.7	4.1
Pr		5.5	10.2	20.3	18.9	2.2	2.3	8.7	0.1	0.4
Nd		29.5	46.1	102.7	92.4	8.9	14.7	45.3	2.6	3.3
Sm		10.6	13.8	32.8	45.1	8.7	14.6	27.8	2.4	5.5
Eu		1.1	1.9	3.5	6.4	1.7	2.5	3.5	0.6	0.3
Gd		16.9	22.8	48.5	68.5	38.2	75.4	68.4	9.7	10.1
Dy		71.5	68.8	109.1	175.7	167.8	302.3	196.0	48.6	50.2
Ho		24.1	27.0	39.5	53.9	66.8	114.9	73.0	18.6	19.2
Er		121.3	135.8	160.5	239.4	377.1	460.2	291.0	83.8	90.0
Yb		319.6	420.8	458.6	603.5	730.9	933.9	603.9	181.3	409.4
Lu		56.8	81.0	85.5	112.7	168.9	155.7	91.6	36.3	74.8
Hf		5843.6	6115.6	6057.7	5991.5	5717.8	5941.3	6098.6	5906.3	6192.7
Th		18.9	130.8	224.6	206.9	112.0	778.4	621.1	25.0	36.8
U		372.7	1025.8	1042.1	1283.6	235.8	789.9	1135.1	45.2	1265.2
GLITTER age		5107	3016	3068		3040	3343	3125		
error		4196	20	20		39	18	21		
LAMTRACE age		3006	3014	3018	3060	3068	3110	3176	3234	2970
error		90	110	84	70	100	48	102	142	76



**KB779 LA-ICP-MS trace element analysis**

KB779	spot	5AT1-1	5AT1-2	5AT2-1	5AT3-1	5AT4-1	5AT3-1
La		6.8	15.6	0.7	0.7	4.6	0.6
Ce		26.3	32.4	32.2	33.5	47.2	69.9
Pr		10.5	15.8	4.3	0.5	3.6	2.2
Nd		13.3	9.0	11.8	1.5	3.6	7.1
Sm		35.0	20.3	63.7	10.1	12.7	55.2
Eu		31.0	25.9	70.7	10.3	15.5	46.6
Gd		95.9	65.2	239.4	34.1	49.1	138.2
Dy		332.1	220.3	812.2	132.3	174.0	478.9
Ho		598.9	376.3	1337.5	268.6	333.9	775.6
Er		869.5	587.3	1946.8	458.0	586.7	1155.9
Yb		1986.5	1361.2	4019.7	1308.2	1652.4	2527.6
Lu		2444.9	1807.1	4492.1	1874.0	2637.8	3342.5
P		265.2	160.4	312.8	86.7	181.7	56.5
Mn		<0.7	3.7	<0.9	<0.7	<0.7	<1.1
Ga		<0.8	<0.7	<0.8	<0.7	<0.8	<1.1
Sr		10.2	9.0	7.0	3.9	4.2	2.4
Y		1043.0	767.2	2208.6	558.4	689.2	1291.1
Nb		19.5	18.8	20.0	13.2	14.7	13.0
Ba		<0.3	0.4	1.9	0.9	1.0	<0.4
La		1.6	3.7	0.2	0.2	1.1	0.2
Ce		16.1	19.8	19.7	20.5	28.9	42.8
Pr		1.0	1.5	0.4	0.1	0.3	0.2
Nd		6.2	4.2	5.5	0.7	1.7	3.3
Sm		5.4	3.1	9.8	1.6	2.0	8.5
Eu		1.8	1.5	4.1	0.6	0.9	2.7
Gd		19.7	13.4	49.2	7.0	10.1	28.4
Dy		84.4	56.0	206.3	33.6	44.2	121.7
Ho		33.9	21.3	75.7	15.2	18.9	43.9
Er		143.9	97.2	322.2	75.8	97.1	191.3
Yb		337.7	231.4	683.4	222.4	280.9	429.7
Lu		62.1	45.9	114.1	47.6	67.0	84.9
Hf		6149.6	6034.7	5902.2	6018.1	5984.5	5934.7
Th		332.2	251.0	834.3	299.7	538.3	758.7
U		221.5	175.1	420.2	757.9	1325.2	978.4

## KB810 LA-ICP-MS

KB810	5ET1-1	5ET2-1	5ET3-1	5ET3-2	5ET4-1	5ET5-1	5ET6-1	5ET7-1	5ET8-1	5ET9-1	5ET10-1	5ET2-1	5ET3-2	5ET4-1	5ET8-1	5ET10-1
La	0.5	3.0		1.1		0.9				1.1	1.4	3.4		4.6		5.5
Ce	7.2	14.4	9.6	16.3	12.1	11.9	12.3	8.7	0.6	15.2	2.9	8.3	16.0	10.8		9.8
Pr	1.5	2.4		4.1		3.7	2.3			2.3	1.6	5.3	3.2	5.3		5.3
Nd		3.2		4.3		4.1	6.9	1.5		9.2		14.3				
Sm	5.2		9.8	12.7	9.2	15.4	21.6	9.8		20.9	2.6	47.1		48.7	0.0	10.1
Eu		5.2	5.2	15.5	10.3	13.8	17.2	8.4		20.7				17.2	6.9	15.5
Gd	13.6	7.3	14.6	38.9	10.7	40.4	54.5	18.5	4.4	52.6	4.9		41.4			12.2
Dy	48.6	45.9	74.8	149.2	68.3	148.0	139.2	47.6	8.7	166.7	26.2	26.0	136.0	40.4	58.7	84.6
Ho	88.3	100.7	127.2	266.8	125.4	227.9	227.9	90.1	19.4	293.3	44.2	53.0	272.1	106.0	137.8	169.6
Er	139.6	154.1	189.7	430.2	180.7	336.0	349.2	118.4	34.4	444.1	85.2	76.7	426.6	151.1	248.9	351.1
Yb	345.9	440.6	345.3	777.6	415.9	728.2	747.4	309.4	110.6	1012.6	261.5	237.1	759.1	309.4	598.8	921.2
Lu	500.0	740.2	385.8	929.1	500.0	850.4	811.0	354.3	165.4	1102.4	393.7	496.1	1000.0	472.4	874.0	1500.0
P	145.2	280.2	155.6	190.0	199.3	177.8	208.3	134.0	72.1	<52.0	118.0	<65.5	268.2	317.0	255.2	<43.4
Mn	<1.3	67.3	<1.2	14.0	4.8	<1.3	3.3	<1.3	<1.2	<1.4	21.5	93.9	48.7	25.8	21.0	88.0
Ga	1.7	<1.3	<1.7	<1.4	<2.3	<1.6	<1.4	<1.6	<1.2	<1.5	0.9	<2.4	3.9	<2.7	13.6	<1.2
Sr	8.9	8.9	10.6	10.2	11.3	9.1	8.2	9.6	8.3	7.3	5.5	6.5	14.9	12.5	1.4	7.8
Y	221.0	245.0	265.9	538.8	278.7	452.4	487.3	228.2	87.4	589.5	119.7	160.0	535.3	250.1	256.3	403.9
Nb	21.4	28.4	23.1	24.6	24.7	25.6	27.1	24.7	18.7	23.6	13.2	31.1	22.6	21.6	12.0	13.3
Ba	1.0	<0.7	<0.9	0.9	<1.2	<0.6	<0.9	4.7	1.1	<1.0	0.7	<1.2	<0.9	<1.4	<2.3	3.2
La	0.1	0.7	<0.12	0.3	<0.17	0.2	<0.14	<0.09	<0.17	0.3	0.3	0.8	<0.1	1.1	<0.4	1.3
Ce	4.4	8.8	5.9	10.0	7.4	7.3	7.5	5.3	0.3	9.3	1.8	5.1	9.8	6.6	<0.4	6.0
Pr	0.1	0.2	<0.10	0.4	<0.13	0.4	0.2	<0.10	<0.08	0.2	0.2	0.5	0.3	0.5	<0.2	0.5
Nd	<0.7	1.5	<0.9	2.0	<0.9	1.9	3.2	0.7	<0.6	4.3	<0.3	6.7	<0.9	<1.0	<1.5	<0.7
Sm	0.8		1.5	2.0	1.4	2.4	3.3	1.5		3.2	0.4	7.2		7.5		1.6
Eu	<0.23	0.3	0.3	0.9	0.6	0.8	1.0	0.5	<0.17	1.2	<0.08	<0.3	<0.3	1.0	0.4	0.9
Gd	2.8	1.5	3.0	8.0	2.2	8.3	11.2	3.8	0.9	10.8	1.0	<1.1	8.5	<1.1	<1.1	2.5
Dy	12.4	11.7	19.0	37.9	17.4	37.6	35.4	12.1	2.2	42.4	6.7	6.6	34.6	10.3	14.9	21.5
Ho	5.0	5.7	7.2	15.1	7.1	12.9	12.9	5.1	1.1	16.6	2.5	3.0	15.4	6.0	7.8	9.6
Er	23.1	25.5	31.4	71.2	29.9	55.6	57.8	19.6	5.7	73.5	14.1	12.7	70.6	25.0	41.2	58.1
Yb	58.8	74.9	58.7	132.2	70.7	123.8	127.1	52.6	18.8	172.2	44.5	40.3	129.1	52.6	101.8	156.6
Lu	12.7	18.8	9.8	23.6	12.7	21.6	20.6	9.0	4.2	28.0	10.0	12.6	25.4	12.0	22.2	38.1
Hf	5923.1	5976.9	5788.4	5919.8	6017.8	5868.9	5951.2	6012.5	5923.3	5885.5	5875.4	6041.8	5854.3	5831.6	6078.7	5986.3
Th	312.3	955.1	252.3	732.7	292.1	243.7	835.5	196.1	103.7	1091.7	310.2	209.7	613.7	249.5	46.2	196.5
U	215.2	1440.6	124.9	314.6	228.9	144.7	432.7	149.3	236.6	492.3	529.0	362.2	264.6	175.9	159.7	448.8

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**Sample KB770 whole rock analysis: major elements, XRF (%)**

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SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5	LOI	dry sum
49.54	0.50	18.03	7.76	0.12	9.10	10.98	1.63	0.25	0.06	2.0241	99.57

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Li	Be	Ti	V	Cr	Mn	Co	Ni	Cu	Zn	Ga	Rb
156.11	1.56	2988.29	4.80	5.71	90.47	124.10	5.13	12.09	47.18	18.12	285.51

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**Sample KB770 whole rock analysis: trace elements, ICP-MS (ppm)**

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Sr	Y	Zr	Nb	Mo	Cd	In	Sn	Sb	Cs	Ba	La
66.42	26.81	133.98	14.23	0.02	0.11	0.03	5.14	0.03	5.74	544.86	45.80

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Ce	Pr	Nd	Sm	Eu	Gd	Dy	Ho	Er	Yb	Lu	Hf
89.00	9.36	31.29	5.67	0.53	4.32	4.25	0.83	2.66	2.82	0.42	4.16

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Ta	Tl	Pb	Bi	Th	U
0.72	9.00	56.20	0.04	30.38	21.11

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