

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 25/2/96 UWA Mount No.: 96-01 Whose sample?: A. Ross Operator(s): IF + MR

Indicate any change to the following:	196	204	bkg	206	207	208	238	248	254
Precambrian Count time (secs):	2 ✓	10 ✓	10 ✓	10 ✓	30 ✓	10 ✓	5 ✓	5 ✓	2 ✓
Delay time (secs):	7 ✓	3 ✓	1 ✓	2 ✓	1 ✓	1 ✓	3 ✓	2 ✓	2 ✓
Phanerozoic Count time (secs):	2	10	10	10	10	10	5	5	2
Delay time (secs):	7	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.168 actual 204-bkg = 0.045 expected resolution = >4200
 Primary = 3.0 nA PESABM = 51 pA actual resolution = 4686
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 59

Comments:	"KB144a"	"KB144b"
	s13-1 to s14-5*	4-5 to s14-6
Zr/U:	1.85654	1.86814
Uo/U:	6.07661	6.13983
Pb*/U:	0.188059	0.200226
No:	9	2
AR = all Restore	error = 1.6720%	error = 0.7411%

* Including s14-1, with last two scans removed

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)	206/238	207/206	Corr.
	sl 961.3-1	11:20	6.164	20	1998	-	1.0	.02	-	566	208	
	AR, NL 3-2	11:43	6.102	19	1923	228	0.4	.03	577	536	204	
	AR u C.1-1	12:07	6.044	20	1852	38	7.6	0.5	2721	2681	204	
	NO L 2-1	12:28	6.29	20	2835	57	5.6	0.3	2720	2690	204	
	AR sl 3-3	12:53	6.17	19	1990	223	-ve	-	580	601	-	
	NO L u C.3-1	13:15	6.32	20	2815	49	6.6	0.4	2695	2680	204	
	AR C.4-1	13:37	6.07	20	513	10	0.7	0.2	2725	2643	204	
	AR 5-1	13:59	6.25	20	1309	25	0.5	.05	2688	2667	204	
	AR, NL sl 3-4	14:21	6.04	19	1993	230	1.5	0.1	592	505	204	
	AR u C.5-2	14:42	6.27	19	2895	55	2.0	0.1	2698	2675	204	
	AR C.6-1	15:03	6.26	19	1710	32	1.6	0.1	2747	2723	204	

1st sl. 238 removed scan!

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 kcps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma)	206/238	207/206	Corr.
	AR 961.C.7-1	15:24	6.32	20	1255	22	-ve	-	2795	2669	-	
	AR, NL C.8-1	15:48	6.02	20	2433	48	13.1	0.7	2818	2660	204	
	AR, NL 9-1	16:15	6.23	20	261	5	-ve	-	2617	2704	-	
	AR sl 3-5	16:36	6.12	20	2024	220	0.5	0.04	587	551	204	
	AR u C.10-1	16:58	6.09	19	2728	55	2.7	0.1	2777	2694	204	
	AR, NL C.11-1	17:21	5.90	12	1408	51	5.8	0.3	2802	2679	204	
	AR C.12-1	17:47	6.02	20	2012	41	-ve	-	2704	2713	-	
	13-1				high 204							abandon
	AR, NL 14-1	18:16	6.18	21	3283	65	16.	0.7	2510	2687	204	
	AR, NL sl 4-1	18:38	6.09	20	2086	222	-ve	-	545	549	-	
	u C.15-1											measured with NO_2^- - do not use.
	AR, NL S1961.4-3	20:52	6.08	20	2080	175	0.5	0.05	518	506	204	
	AR, NL u961.C.16-1	21:22	6.24	17	1529	26.7	4.2	0.49	2347	2664	204	
	AR sl 961.4-4	21:55	5.80	25	2282	178	1.0	0.11	515	526	204	
	AR, NL u961.C.17-1	22:26	5.87	25	3476	46	1.9	0.11	2501	2673	204	
	AR, NL u C.18-1	22:53	6.17	18	1971	30	0.5	0.05	2532	2449	204	
	AR, NL u C.19-1	23:16	6.23	23	2604	32	13.8	1.31	2393	2654	204	
	AR, NL u C.20-1	23:41	6.22	26	5251	59	12.2	0.62	2390	2683	204	
	AR, NL sl 4-5	00:06	6.02	23	2477	176	-0.3	-	537	550		no common Pb correction
	u C.21-1	00:41	6.06	21	1340	19	2.5	0.37	2452	2808	204	
	AR u C.22-1	01:04	6.18	23	1087	13	0.0	0.01	2555	2681	204	= INF
	AR u C.23-1	01:28	6.08	24	1767	22	0.9	0.11	2510	2690	204	
	UB01-1				Aborted		high 204					
	UB.01-2				"		"					

Dubious
see printoutDubious
see printout
HV dropout
Big Wein
shiftRemoved
last 2
scans.

→ should delete

10 drops →

Deleted last
scan

→ Remove scan 1 of 238

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U K cps	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	SR 961.4-6	02:21	6.25	21	2410	169	0.4	0.04	540	521	204
AR, NL	u 961B.2-1	02:58	6.10	26	17265	207	31.	0.46	2392	2635	204
AR, NL	1M42 u B.2-2	03:24	7.40	25	141090	670	37.	0.11	3251	2439	204
AR	u B.3-1	03:49	6.17	24	3695	44	0.2	0.01	2492	2684	204
AR, NL	u B.3-2	04:12	6.21	24	4382	49	12.2	0.69	2539	2675	204
Remove scan 1 of 28	SR .4-7	04:40	6.11	24	2461	167	0.3	0.03	532	579	204
Remove scan 7 of 25	u B.4-1	05:04	6.19	24	4617	55	18.3	0.97	2453	2659	204
	B.5-1		High	204			Aborted				
AR	B.6-1	05:41	6.39	24	2434	26	16.2	1.02	2438	2630	204
AR, NL	B.7-1	06:08	6.15	23	4546	57	1.3	0.06	2501	2690	204
AR	B.7-2	06:30	6.33	22	5343	61	0.8	0.03	2535	2684	204

4-6 to 4-7

Zr/U 1.99857

Uo/U 6.18457

Pb²⁰⁴/U 0.204525

n=2 error = 0.058%