

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 13/4/96 UWA Mount No. 95-39 + 96-12 Whose sample? YUMIN " Operator(s) MEN + YUMIN. "

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 = 8.169 actual 204-bkg = 0.040 expected resolution = >4200
 Primary = ~~3.4~~ 3.4 nA PESABM = 51 pA actual resolution = 4686
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 66.7

Comments: Raster = 2 mm @ 120 μ
No of Scans = 6

95-39 { A = YQ13
 B = YQ14

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.
	std. 5-1	10:03	4.96	20.1	1488	220	0.2	.02	572 ± 1 603 ± 28	204
	Reduced duo P to ≈ 350 + returned									
	std. 5-2	11:01	5.58	26.0	2321	220	0.04	.03	572 ± 1 614 ± 21	204
	std. 5-3	11:19	5.76	27.2	2642	213	0.1	.005	271 ± ? 541 ± ?	204
	B. 2-2	11:38	6.46	25.8	27K	297	20.2	.19	2582 ± 3 2629 ± 3	204
	std. 4-1	11:57	5.77	28.3	2738	210	0.1	.005	575 ± 1 602 ± 15	204
	B. 1-2	12:17	5.79	28.1	7.6K	112	2.8	.07	2553 ± 6 2655 ± 5	204
	↓ ↑ to 4.7 nA → Reduced with matching lens + Kohler lens ↓									
	std. 4-2	12:52	5.82	20.5	1945	210	0.0	.01	548 ± 1 574 ± 18	208
	B. 7-1	13:12	6.06	19.2	18.3K	340	5.4	.05	2526 ± 4 2646 ± 3	204
	B. 5-2	13:31	6.01	21.2	6.9K	113	2.7	.06	2637 ± 6 2643 ± 5	204

* I⁰ tends to be steady for 2/3 of analysis + then drops slowly; consistent for all analyses after this one; need to adjust Duo γ to recover.

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Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
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196 207.8 254	B.4-2	13:50	6.06	21.4	20.5K	330	14.9	.12	2604±4	2634±3	204
196 206 27 248	std. 4-3	14:08	5.94	21.2	2086	203	0.5	.05	549±1	607±21	204
254	B.9-1	14:27	6.85	20.4	96.6K	1005	63.7	.16	2824±2	2544±1	204
196 206 27 248	B.10-1	14:45	5.72	23.0	3567	59.0	21.8	.89	2803±9	2911±8	204
196 206.7 238 248	B.11-1	15:03	5.76	21.6	8.4K	160	1.2	.02	2600±5	2624±4	204
196 206 238 254	B.12-1	15:21	6.04	21.6	2516	39.5	0.4	.03	2650±10	2642±9	204
196 206 238 254	std. 2-1	15:40	5.72	22.4	2167	224	1.2	.10	554±1	520±28	204
196	B.13-1	15:59	5.80	22.7	3082	56.4	0.9	.05	2519±8	2645±7	204
196 207	B.3-2	16:17	5.80	22.1	3047	45.4	1.3	.06	3054±11	3127±6	204
196 204 206 238	B.6-2	16:36	5.79	21.7	10.9K	210	3.4	.05	2508±4	2653±4	204
196 207 238 248	B.14-1	16:54	5.67	22.7	2103	40.6	1.5	.10	2570±11	2641±9	204
196 206 207 254	std. 2-2	17:13	5.86	21.4	2167	214	0.5	.04	561±1	604±20	204
196 248	B.15-1	17:32	5.81	23.4	3890	83.9	22.8	.95	2117±6	2636±9	204
196 207	B.16-1	17:51	5.87	21.7	2122	36.9	1.4	.10	2642±11	2667±9	204
196 208 238	B.16-2	18:10	5.9	21.3	3286	57.2	0.3	.01	2641±9	2658±6	204
196	B.17-1	18:28	6.04	21.4	2549	39.8	0.4	.03	2693±10	2703±7	204
206	std. 2-3	18:46	5.68	21.7	2043	230	/	.01	580±1	610±17	208
96-12B 196 248 254	std. 3-1	19:19	6.27	19.4	2132	220	0.4	.04	572±1	562±20	204
90 steadily drops Continued from 7/4/96	B.6-1	19:40	6.47	21.5	4667	77	41.	1.4	2483	2956±8	204
196 238 248 254	B.7-1	20:00	6.83	17.1	6411	166	383.	9.6	1652	2757	204
206 207 254	B.8-1	20:17	6.94	20.	5895	116	35	1.2	1852	2902	204
196 206 206.7 248	B.9-1	20:37	6.66	20.7	4042	86	84.8	3.6	1965	2740	204
196 206	std. 3-2	20:55	6.05	21.1	2208	232	-9.5	.02	582	576	208
196 206.7	B.10-1	21:18	6.81	20.2	8244	123	169.7	5.	1914	2912	204

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
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196 206 206 228 248	B11-1	21:35	5.99	20.7	2194	51	0.7	10.4	2404	2702	204
206 208 208 208 254	12-1	21:55	7.48	19.5	5702	180	299	12.5	947	2700	204
	13-1	22:17	7.58	17.4	10614	239	505	10.	1414	2857	204
196 206	14-1	22:37	6.18	21.	3032	52	0	/	2806	2729	/
196 254	15-1	22:59	6.36	20.9	4114	67	63.7	2.4	2650	2966	204
196 206 238	S13-3	23:18	6.37	20.1	2395	213	0	1.003	593	546	204
196 208 208 208 254	16-1	23:44	6.72	19.9	1730	34	4	.4	2076	2716	204
196	17-1	0:1	6.04	20.	1793	35	0.4	1.03	2771	2727	204
196 206 207 208 254	18-1	0:19	6.60	16.9	3880	118	124	5.4	148	2773	204
196 206 207.8 208 254	19-1	0:38	6.33	21.9	7554	194	189	4.1	1739	2773	204
196 206 207.8 208 254	20-1	0:57	6.49	20.	3073	68.	792	4.1	1999	2752	204
196 207	S15-1	1:15	6.18	20.9	2229	219	0	1.01	584	537	204
206 206.7. 238. 48 54	21-1	1:38	6.45	20.8	3591	57	3.2	1.	2707	2976	204
196 208	22-1	1:56	6.56	21.1	4026	710	86	3.7	2207	2726	204
207.8. 238 48 54	23-1	2:15	6.59	21.4	11.82	167.	9.4	1.	2834	2994	204
196 254	24-1	3:06	6.16	19.6	2474	47	0.7	1.04	2754	2769	204
196 206 207 208	24-2	3:24	6.58	20.9	3815	75	11.7	5	2116	2995	204
196 206 238	25-1	3:42	6.77	21.1	3786	74	249	1.3	1947	2707	204
196:0. 207. 238	S15-2	4:01	6.21	20.3	2240	216	-0.8	/	596	564	/
196 204 206.7.8. 238	26-1	4:21	6.75	19.8	6231	149	337.	9.5	1520	2934	204
196 208 238	27-1	4:42	6.35	22.3	1966	76	18.6	1.6	1200	2722	204
206.7.8 238	28-1	5:	6.79	20.	4128	82.6	111.5	4.9	1918	2960	204
196 207.8. 208	29-1	5:27	6.83	20.2	3890	81.	59.3	2.9	1833	2754	204
196 206 248	S15-3	5:52	6.03	20.1	2075	228	0.3	102	591	577	204

96-12A

A1-1 6:20 3.6

21/U 1.86377
 U/U 5.88189
 Pb/U 0.18526
 15 STD 2.2%

96-12B-STD
 1.88015
 6.17749
 0.203914
 6 STD (25 Sample)
 1.46%

9539-STD
 1.86884
 5.76677
 0.180342
 8 (17 candy kg)
 1.8%

Zircon