

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 28/9/95 UWA Mount No.: 95-26
+94-29 Whose sample? YUMIN Operator(s) Me N - 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 = 8.166 actual 204-bkg = 0.040 expected resolution = >4200
 Primary = 1.9 nA PESABM = 33 pA actual resolution = 4600
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 58

Comments:

95-26
 RASTER = 3 MINS
 RASTER = 5 MINS

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.
	std 1-1	10:54	6.40	8.8K	1082	220	40.9	3.46	553±1 592±32	208
	<i>AK adjusted spot slope to remove tail !! 1° increased !!</i>									
	std 1-2	11:46	6.25	14.3K	1658	220	24.6	2.08	561±1 565±23	208
	std 1-3	12:12	6.36	14.6K	1673	220	15.7	1.40	564±1 553±21	208
✓	B. 1-1	12:39	6.29	14.8K	6.4K	156	53.5	.93	2612±6 2636±6	204
	std 1-4	13:04	6.29	14.8K	1675	221	27.1	2.08	567±1 578±23	208
	B. 2-1	13:28	6.27	14.6K	10.2K	262	44.0	1.46	2586±5 2642±4	204
	B. 2-2	13:52	5.95	18.2K	8.0K	196	163	2.32	2542±5 2634±8	204
	std 1-5	14:16	6.29	14.9K	1630	221	23.3	1.73	551±1 564±22	208
	B. 3-1	14:49	7.45	10.5K	59K	1793	178	.40	1939±1 2339±2	204

* slight adjustment to 204, 207 + 208 on grain #5 with high U + 204Pb!

Mount/sample No: 95-26 Date: 28/9/95 Page No: 2

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.

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.
196, 207, 208	B. 4-1	15:13	7.16	11.7K	59K	1455	324	.74	2302±2	2345±2	204
196 204 207 208 254	* REJECT B. 1-2	15:38	5.93	17.4K	4.4K	174	72.0	1.72	1773±4	2807±9	204
196 206 208	std 1-6	16:02	6.34	14.6K	1639	220	11.8	.73	559±1	524±20	208
206 248	B. 1-3	16:26	6.38	14.5K	10.3K	263	41.8	.46	2503±4	2630±4	204
196 207 238 248 254	B. 1-4	16:49	6.27	16.6K	7.4K	285	46.5	.81	1628±3	2325±7	204
196 206	B. 5-1	17:12	8.66	8.6K	45K	1503	6.17ppm	21.7	1195±2	2636±11	204
206 206 207 254	B. 6-1	17:37	7.54	11.0K	52K	1428	351	9.78	1969±2	2340±3	204
206 207 208	B. 7-1	18:00	8.33	8.7K	30K	1251	4.13ppm	19.6	1103±2	2602±13	204
* Adjusted Peak pos'n's 196 206 238 206 206	std 1-7	18:34	6.35	14.3K	1583	215	12.9	1.13	559±1	584±21	208
196 206 207	C. 1-1	18:58	6.29	14.5K	8.2K	209	34.0	.45	2593±5	2635±5	204
	C. 1-2	19:33	6.10	14.2K	6.4K	203	61.0	.92	2377±5	2617±6	204
— KV OFF + SAMPLE CHANGE —											
196 206 207 208 248 254	std 1-8	20:39	6.32	13K	1516	225	22.2	1.5	569±1	581±22	208
196 207 238 254	Core A. 1-1	21:12	6.67	13.5K	6290	145	71.0	1.36	2564±6	2680±7	204
	A. 2-1										High 204
Not Zircon??	A. 3-1	21:46	8.5	6420	4998	269	658.2	14.7	1145±4	2694±33	204
196 206 208 238 250	std 1-9	22:12	6.76	11.1K	1342	190	16.7	1.49	568±1	563±24	208
196 208	mantle A. 1-2	22:37	6.75	12K	193K	543	89.8	.52	2336±3	2639±3	204
196 238	A. 4-1	23:02	8.53	9918	9604	178	836.5	15.1	2020±6	2584±19	204
207 208 238 254	A. 5-1	23:28	7.19	13.5K	11730	254	119.5	1.54	2237±4	2624±5	204
196 204 238	A. 6-1	23:53	7.53	12.9K	36.8K	840	213	.95	2013±2	2583±3	204
206 208 238 250	std 1-10	0:17	6.29	13.1K	1535	226	25.3	2.1	564±1	553±24	208
Not Zr	A. 7-1	0:43	9.01	4678	119K	3576	78	.78	301±1	722±14	204
Wrong PK 196 204	A. 8-1	1:09	6.90	14.2K	9936	188	144	1.99	2638±5	2788±6	204
196 206 207 238	A. 8-2	1:33	8.82	7035	7085	277	555.2	10.7	1284±3	2484±20	204

