UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
24/4/96	96-15 A	Marcus	IF + YQ

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*	10	5	5	2
Phanerozoic* 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 = ... actual 204-bkg = ... expected resolution = >4200

actual 206-207 = 1:002 actual 206-208 = 0.999 actual resolution = 4500

Primary = 2-7 nA PESABM = 63 pA actual Primary : PESABM (≈ 50:1) = 63

Raster time (mins): 5 (after sl-2-5) Raster aperture (microns): 120 μ No. of scans: 7

Comments: Primary (duo) conditions not stabilised until after sl-2-6. Might need to delete the first 3 standards.

96-15 pop A (=Asx)

Rejection over-ride	Sample/ Std ID	Time - printout	U/U	196 kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	207/206	Corr.
	sl 615.2-4	13:53	6.45	16.3	1846	—	1.1	0.10	—	526	208
	2-5	14:20	6.66	14.5	1870	RECAL —	1.4	0.12	—	530	208
	2-6	14:48	5.96	15.6	1620	RECAL —	0.2	.02	—	626	208
	u 615.6-1	15:22	6.39	18.4	1219	117	2.3	0.4	550	641	204
	7-1	15:45	6.09	17.9	495	54	1.5	0.5	577	408	204
	sl 2-7	16:07	6.47	14.4	1805	191	1.2	.05	609	581	208
	u 8-1	16:30	5.92	18.9	595	70	0.3	0.1	560	531	204
	9-1	16:53	6.80	17.7	452	36	0.5	0.2	569	561	204
	9-2	17:16	6.11	17.8	434	47	0.0	0.4	582	454	204
	sl 2-8	17:38	5.99	17.7	1808	212	1.3	.03	576	575	208
	u 10-1	—	abandon	—		high 204	—	—			

Delete these 3 ①

196,206

196,238,254

196,206,254

196,206 238,254

196,206 208,238 196

196,206,248

Mount/sample No: 96-15 Date: 29/4/96 Page No: 2

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 kcps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.
254 196,206 208,248	u bSA.11-1	18:09	5.99	16.9	690	85	1.6	0.3	569	474	204
196,206 238	4bSA-A12-1	18:31	6.09	17.6	2876	322	0.1	.004	572	562	204
254	13-1	18:54	6.17	17.6	646	74	0.5	.1	540	631	204
206,208,248	S12-9	19:17	6.19	16.9	1901	205	1.0	.09	588±1	563	204
208 1° 238 248 254	14-1	19:39	6.21	17.6	222	24	0.4	.3	565	495	204
208	15-1	20:01	6.06	17.5	529	62	-0.3	—	570	658	—
207	16-1	20:24	5.85	18.2	1446	181	2.3	.24	566	633	204
248 196,206	17-1	20:46	6.04	17.4	583	67	0.4	.1	576	453	206
206,238	S14-1	21:11	5.73	17.1	1491	222	1.3	.11	580	611	204
254 196,206 208,238	18-1	21:35	5.65	17.7	301	40	10.1	4.3	594	298	204
238	19-1	21:57	5.72	16.2	378	56	-0.4	/	579	543	—
196,238 254	20-1	22:18	6.1	17.4	1051	125	2.9	.5	545	503	204
196,206 208	21-1	22:39	5.65	19.5	371	55	21	8.2	470	433	204
206,207	S14-2	23:01	5.89	18.2	1803	217	0.6	.05	576	604	204
196,206,238	22-1	23:26	6.03	17.3	508	61	1.	.3	557	555	204
196,206 208	~~23-1~~ (23-2)	23:48	5.6	18.1	482	73	1.2	.3	549	532	204
196,204 238	24-1	0:11	6.38	18.2	300	26	15.6	14.5	562	459	204
206,254	25-1	0:38	5.51	19.6	9240	76	297.6	43 ~~43~~ 4.3	561	217	208
196	26-1	0:54	5.82	16.	725	106	0.7	.1	564	511	204
196,206 208,238	S14-3	1:21	5.86	18.6	1810	216	1.0	.01	578	598	208
196,206 238,254	27-1	1:48	6.21	17.	577	63	-0.6	.2	568	583	208
196,248	28-1	2:11	6.21	16.8	788	86	1.1	.2	580	539	204
196,206,238 248 254	29-1	2:36	6.43	16.8	429	43	-0.7	—	564	526	—
238,248 254	30-1	3:04	6.13	17.2	1224	139	-0.2	—	567	601	—
206,238 254	31-1	4:00	6.48	17.4	512	49	0.6	.1	562	675	208

SU → U

Change to 22-2

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Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	^{204}Pb ppb	f_{206} %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.
206, 208, 248	S14-4	4:21	6.06	17.7	1883	208	1.3	.02	586	587	208
206, 208, 238, 248, 196, 228	A32-1	4:49	5.58	14.8	452	82	-0.7	—	569	452	—
	A33-1	5:13	6.2	~~17~~	345	39	0.2	.1	585	539	204