

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 16/6/98 UWA Mount No.: 97-30 Whose sample?: Stu Operator(s): IF TSS

Indicate any change to the following: ¹⁹⁴196 204 bkg 206 207 208 238 248 254

Precambrian Count time (secs): 2 2 ✓ 10 ✓ 10 ✓ 10 ✓ 30/10* 10 ✓ 5 ✓ 5 ✓ 2

Phanerozoic* Delay time (secs): 8 2 ✓ 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 = 0.043 expected resolution = >4200

actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5393

Primary = 9 nA PESABM = (0) actual Primary : PESABM (= 50:1) =

Raster time (mins): 1 Raster aperture (microns): 72 No. of scans: 7

Sensitivity = 8.5

Comments: Note - extra peak, to be deleted before knitting
Retardation, small apertures, 0⁻

8 Standards
error = 1.66%
whakamaru Pb : 204/206 0.0531
207/206 0.8292
208/206 2.0541

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.	
	S1.5-1	17:15	5.56	33.1	2534	220	0.4	0.03	572	574	208	3.1
	S1.5-2	17:43	5.74	30.0	2685	226	-0.2	<0.01	580	562	208	3.4
	25-3	18:21	5.89	31.2	3.0	430	0.4	13.7	0.3 ± 0	0.3 ± 0	208	39.7
	17-3	18:51	5.69	28.6	0.6	92	0.4	3.2	0.3 ± 0	—	207	15.0
	28-3	19:24	5.78	31.2	0.7	72	0.2	29	0.3 ± 0	—	208	4.0
	28-4	19:49	5.86	29.3	1.1	71	0.8	45	0.4 ± 0	—	207	3.4
	S1.5-3	20:18	5.56	28.5	2441 248	248	-0.2	<0.01	569	572	208	2.2
	S1.5-4	21:08	5.85	28.4	2456	?	6.3	0.57	578	553	208	2.9
	8-4	21:34	5.81	27.4	1.6	219	-0.2	—	0.4 ± 0	—	—	15.5
	8-5	22:01	5.98	28.3	1.5	208	0.1	—	0.3 ± 0	—	—	8.3
	15-5	23:51	5.66	26.6	0.8	92	0.2	0.18	0.4 ± 0	—	208	4.9

Note on file → this is "5-3"

core →

rim →

206Pb Auto peak center not on. →

core →

rim →

core →

Checked peak offsets & scans. -OK

4.20
194
eps

4.20

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206		Corr.		
	Rim	15-6	0:19	5.98	25.6	1.6	242	-0.3	—	0.3±0	—	—	6.2
	high 4 zone	15-7	0:44	6.19	25.1	7.9	981	0.4	9.8	0.3±0	—	206	57.4
		SI.5-5	1:12	5.6	28.9	2414	211	0.7	.06	558	608	204	2.3
		15-8	1:51	5.15	32.2	1.5	321	0.9	18	0.3±0	—	208	7.1
	high 204Pb 207 after scan 3. cone	4-5	2:37	5.51	26.0	13.0	137	7.7	44	3.2±0.1	—	207	11.7
	Rim	4-6	3:04	5.70	26.8	0.9	103	0.3	21	0.4±0	—	207	4.4
	Rim	4-7	3:29	5.68	23.6	1.0	120	0.2	34	0.3±0	—	207	3.2
		SI.5.6	3:55	5.48	26.8	2185	252	-0.3	.04	561	588	208	1.5
		4-8	4:21	5.45	26.1	2.5	406	-0.4	14	0.4±0	—	208	19.3
		10-5	5:15	5.86	28.2	0.8	113	0.4	25	0.3±0	—	208	4.1
		10-4	4:49	5.91	26.4	2.5	333	0.3	9.6	0.4±0	—	208	5.9
	cone	23-5	5:45	5.85	28.7	1.9	178	0.2	8.6	0.5±0	—	208	6.5
	Rim	23-6	6:13	5.98	25.5	1.3	151	-0.3	25	0.3±0	—	208	7.7
		SI.4-4	6:46	5.63	29.3	2466	228	0.2	.01	581	561	208	1.6
		9-4	7:16	5.75	28.5	0.7	101	-0.3	26	0.2±0	—	208	2.8
		SI.4-5	7:54	5.87	27.2	2640	226	-0.1	.04	581	571	208	

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