

UWA DATA LOG: SHRIMP ZIRCON U-Pb

x/b Date: 14/99
 UWA Mount No.: 98-72
 Whose sample?: A 650
 Operator(s): AP
Follow on From 97-42

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
Precambrian	Count time (secs):	2	10	10	10/20*	30/10*	10 ⁵	5	53	5
Phanerozoic*	Delay time (secs):	8	3	1	2	1	1	3	24	2

expected ²⁰⁰196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs
 actual ²⁰⁰196-204 = 4.135 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5090
 Primary = 1.8 (epoxy) nA PESABM = 63 pA actual Primary : PESABM (≈ 50:1) =
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: 1° fixed, ie recorded but keeps spiking thru analysis, doesn't appear to affect offsets!
NB: used 1st kh std as calibra² std ∴ all the zero values on print out.

1° beam @ 49 V. Nieu Z

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UD (270/254)	²⁰⁰ U cps	206 cps	U ₂ ppm cps	204Pb ppb cps	f ₂₀₆ %	Age ±1σ (Ma) 206/238 254	207/206	Offsets OK?
	kh 9-1	4:40	.98	1450	2148	13.6	0.8	.55	.155	540	✓
	kh 9-2	5:00	.97	1260	1963	12.3	1.0	.86	.155	495	✓
	C. 1-1	5:19	.91	1476	642	658	1.8	3.61	.885	2619	✓
	C. 2-1	5:38	.95	1472	886	888	1.1	1.74	.950	2593	✓
	kh 9-3	5:56	.98	1394	2065	13.9	0.8	0.60	.155	551	✓
	C. 3-1	6:16	.95	1401	1210	1224	0.7	.68	.936	2631	✓
	C. 4-1	6:34	.96	1513	2810	2935	1.2	.54	.921	2641	✓
	C. 5-1	6:52	.97	1446	2595	2787	0.9	.47	.931	2638	✓
	kh 9-4	7:11	.97	1364	1975	12.6	1.2	.99	.152	496	✓
	C. 6-1	7:29	.94	1439	2916	3046	0.9	.39	.904	2631	✓
	C. 7-1	7:48	.96	1446	674	668	1.2	2.13	.964	2631	✓

raster 1min

spiked during scans 1 & 2 = 207

1° spike a lot, but irregular

