

**UWA DATA LOG: SHRIMP ZIRCON U-Pb**

Date: 27/4/99      UWA Mount No. 98-62      Whose sample? Gavin E      Operator(s) IF + GF + BR.

Indicate any change to the following: <sup>194</sup> 196 204 bkg 206 207 208 238 248 254 270

Precambrian Count time (secs): 2 2 - 10<sup>5</sup> 10<sup>5</sup> 5 15 10 5 2 5 1 2 2 } up for best xtc  
 Phanerozoic\* Delay time (secs): 8 8 1 3 1 2 - 1 4 0 5 3 - 2 2 2 3

expected 196-204 = 8.170 amu      expected 204-bkg = 0.045 amu      Dead-time = 32 nanosecs  
 actual 196-204 = 10.168      actual 204-bkg = 0.040      expected resolution = >4200  
 actual 206-207 = 1.000      actual 206-208 = 2.000      actual resolution = 5080

Primary = 0.35 (NO<sup>-</sup>) nA      PESABM = /      actual Primary : PESABM (= 50:1) = /  
 Raster time (mins): 2      Raster aperture (microns): 100      No. of scans: 9

Comments: xtc is on 98-85, Au-coated with this mount.  
 Spot notation is different to later session/samples.  
 change (- in file) x → b (sequential measure)  
 b → x (revisited spot from 1st session)

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 <sup>+</sup> K cps	206 K cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
	xtc.12-1	12:15	8.48	47	60	220	0.3	0.02	572	2637	✓
	xtc.12-2	12:48	8.09	48	38	175	0.1	0.01	573	2629	✓
	Scan 6 A.19-1	13:13	8.55	48	20	104	0.1	0.02	361	2326	✓ .0017
	Scan 42 A.11-1	13:44	7.07	54	10	53	0.3	0.08	508	2713	✓ .0017
	A.17-1	14:15	8.71	44	16	21	0	0.02	521	2769	✓ .0046
	Scan 2 A.17-2	14:36	8.29	43	11	16	0	0.05	467	2668	✓ .0055
	xtc.12-3	14:58	8.01	52	17	85	0	0.01	518	2633	✓
	A.4-1b	15:23	7.75	47	13	74	0	0	550	2724	✓ .0013
	Scan 2 A.4-2	15:46	7.77	40	10	39	0.1	0.04	449	2495	- .0027
	A.35-1	16:26	8.80	39	11	51	0.1	0.02	534	2636	✓ .0014
	Scan 3 A.10-1b	16:57	7.40	39	13	28	0.1	0.07	468	2642	✓ .0056

Remineral to 19-1b.  
 change to 11-1b  
 smooth!

smooth

Scan 2 ✓

Scan 3 ✓

smooth Pb

27/4

2.80% 17

