UWA SHRIMP LOG SHEET

Date	UWA mount no(s)	Mineral(s)	Whose sample?	Operator(s)
19/1/06	05-89	ZR	JK	McN + Nick.

Notes: Masses in **bold** = peak centred; others = offset from lower mass centred peak (see offsets below).

Zircon/Badd.	**196**	204	204.1	**206**	207	208	**238**	**248**	**254**
Count time (secs)	2	10	10	~~10~~/20	~~30~~/10	10	5	5	2
Delay time (secs)	8	3	1	4	2	1	54	2	23
Centring (secs)	3	-	-	54	-	-	52	3	2

Titanite/Perovskite	**200**	204	204.1	**206**	207	208	**248**	**254**	**270**
Count time (secs)	2	10	10	10/20	30/10	10	5	5	7
Delay time (secs)	8	3	1	4	2	1	4	2	3
Centring (secs)	3	-	-	4	-	-	4	3	3

Monazite (SHB)	**202**	**203**	204	204.1	**206**	207	**208**	**232**	**254**	**264**	**270**
Count time (secs)	2	2	10	10	10/20	30/10	5	5	2	2	2
Delay time (secs)	8	1	1	1	4	2	2	4	3	3	2
Centring (secs)	1	2	-	-	4	-	2	2	2	2	2
Cup in/out (SHA)	out							in	out		in

Xenotime (SHB)	**194**	(196)	204	204.1	**206**	207	208	**238**	**248**	**254**
Count time (secs)	2	(5)	10	10	10/20	30/10	5	5	5	2
Delay time (secs)	8	(2)	3	1	4	2	1	3	2	2
Centring (secs)	1	2	-	-	4	-	-	4	3	2

MASS OFFSETS (record setup offsets for session, and **check them after each analysis**).
Note: Setup offsets are different for SHRIMP A and B: i.e. 206-207 = 1.001 for A and 1.005 for B.

Zircon/Badd.	196-204	204-204.1	204-206	206-207	206-208
Expected offsets:	8.170	0.045	~2.001/9	1.001/5	2.001/9
Setup offsets:	8.152	0.045	^2.003	1.003	2.004
~~**Titanite/Perovsk.**~~	~~200-204~~	~~204-204.1~~	~~204-206~~	~~206-207~~	~~206-208~~
Expected offsets:	4.136	0.045	~2.001/9	1.001/5	2.001/9
Setup offsets:	.....	.....	.....	.....	.....

Monazite (SHB)	202-203	203-204	204-204.1	204-206	206-207	206-208
Expected offsets:	~1.000	1.110	0.045	~2.001/9	1.001/5	~2.001/9
Setup offsets:	.....	.....	.....	.....	.....	.....

Xenotime (SHB)	(194-196)	194-204	204-204.1	204-206	206-207	206-208
Expected offsets:	1.998	~~10.143~~	0.045	~~~2.001/9~~	~~1.001/5~~	~~2.001/9~~
~~Setup offsets:~~	.....	.....	.....	.....	.....	.....

Deadtime 24 ns **Kohler aperture** 100 **Retard** 14 volts **Resoln** 5040

Primary on Steel: O^- ~~.....~~ bits & nA O_2^- ~~.....~~ bits & nA

Primary O_2^- on: epoxy = 2.4 nA; standard = ~~3.0~~ 3.4 nA; **PESABM on std** = 70 pA

Raster: Time (mins): 2.5 Aperture: 110 **No. of scans:** 6

Useful information
CZ3 = 564 Ma & 551 ppm U
Temora 2 = 417 Ma & ~130 ppm U
Khan = 518Ma & 700 ppm U
SDA : 7/6 age = 3578+/-4 Ma

Comments: 05-89 B+C

Tem x 12

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Note: Bold = constant for stds & unknowns.....check after each analysis; also check offsets.

Sample/ Std ID	Time on printout	**UO/U 254/238**	**196 (zr) Kcps**	206 cps	U ppm	f_{206} %	Sensit.	Age+/-1σ (Ma) 206/238	207/206	Offsets OK?
Alternative		*UO2/UO 270/254*	***194 (xt) 200 (tnt) 203 (mz)***	*206 cps*	*254 270 Kcps*	*204 cps*	*196/194 264 Kcps*	*206/238 206/254 206/270*	*207/206*	*Check after each!!!*
05-89										
cz.1-1	10:51	6.91	20	2650	551	.58	22.2	561±3	473±49	✓
tem.1-1	11:14	6.60	20	345	88	1.46	22.8	433±6	159±343	✓
tem.2-1	11:33	6.54	22	440	124	.61	21.7	428±5	384±166	✓
B.1-1	11:52	6.42	22	1700	337	.39	22.2	620±5	661±59	✓
B.2-1	—	not	zuca	→	aborted					
B.3-1	12:28	6.57	20	700	131	0.72	22.5	614±6	595±85	✓
tem.3-1	12:49	6.47	21	850	233	.65	22.5	433±3	291±91	✓
B.4-1	13:23	6.19	20	1800	356	1.5	20.6	616±5	593±69	✓
B.4-2	13:47	6.20	22	2100	393	0.44	21.3	644±4	575±46	✓
B.5-1	14:08	6.30	22	1900	309	.20	23.2	609±10	682±53	✓
B.6-1	14:33	6.22	23	1700	292	.20	24.1	589±5	616±45	✓
B.6-2	14:52	6.24	22	1400	265	.08	22.4	581±6	637±43	✓
B.7-1	15:15	6.35	22	3200	583	.17	23.5	622±4	573±30	✓
B.8-1	15:44	6.38	22	2400	430	.20	23.4	602±5	609±30	✓
TEM.4-1	16:06	6.33	22	500	121	2.5	22.7	428±5	—	✓
B.9-1	16:27	6.64	22	2700	468	.40	24.2	604±5	547±35	✓
B.10-1	16:50	6.29	22	1500	289	.48	22.8	586±5	462±75	✓
B.11-1	17:14	6.10	24	3600	600	.17	22.8	620±4	587±35	✓
B.12-1	17:38	6.17	23	2200	377	0.55	23.7	600±4	555±60	✓
TEM.5-1	18:00	6.21	24	600	161	.13	23.9	437±4	512±77	✓
TEM.6-1	18:19	6.60	18	600	165	2.5	19.4	460±6	—	✓

+ve spot on pinacle — " — — " — — " — — " — — " —

Date ..... **UWA mount no(s)** ..... **Page no.** .....

Note: Bold = constant for stds & unknowns.....check after each analysis; also check offsets.

Sample/ Std ID	Time on printout	**UO/U 254/238**	**196 (zr) Kcps**	206 kcps	U ppm	f_{206} %	Sensit.	Age+/-1σ (Ma) 206/238	207/206	Offsets OK?
Alternative		***UO2/UO 270/254***	***194 (xt) 200 (tnt) 203 (mz)***	*206 cps*	*254 270 Kcps*	*204 cps*	*196/194 264 Kcps*	*206/238 206/254 206/270*	*207/206*	*Check after each!!!*
(rim) 0589C	1-1 18:40	6.11	44	30	256	.33	22.1	638±5	516±67	✓
(core) C.1-2	19:00	6.47	45	143	729	.14	24.5	941±6	1867±12	✓
C.2-1	19:22	5.98	49	62	209	0.16	22.4	1437±11	2368±13	✓
C.2-2	19:45	6.13	45	88	176	.15	22	2329±24	2622±12	✓
C.2-3	20:06	6.14	46	51	358	.13	23.6	635±4	946±27	✓
C.3-1	20:23	6.34	47	121	205	.12	23.7	2562±135	2647±10	✓
TEM.7-1	20:44	6.37	46	20	252	.28	23.5	445±4	408±67	✓
TEM.8-1	21:13	6.24	48	7	84.3	1.8	23	433±8	—	✓
0589C.3-2	21:34	5.94	47	89	181	-.08	19.1	2289±143	2655±8	✓
C.4-1	21:56	5.55	45	27	236	.31	19.2	646±32	549±62	✓
C.5-1	22:17	6.36	51	43	283	.25	24.7	609±6	587±46	✓
C.5-2	22:36	6.17	50	76	614	.07	23.5	615±4	602±21	✓
C.6-1	23:00	6.17	51	57	242	0.14	24.8	846±24	1556±60	✓
C.6-2	23:20	6.10	49	41	338	.28	24.6	584±4	613±53	✓
C.7-1	23:39	6.33	50	44	328	.20	23.9	629±4	568±60	✓
C.8-1	00:01	6.30	52	35	255	.09	24.3	636±5	1070±41	✓
TEM.9-1	00:24	6.02	51	4.6	56	.90	22.7	427±8	—	✓
TEM.10-1	00:48	6.28	49	11	129	.82	24.1	425±5	—	✓
C.9-1	01:09	6.73	47	61	168	.04	25	1617±14	2478±9	✓
C.10-1	01:28	6.45	47	64	505	.015	23.9	624±4	611±21	✓
C.11-1	01:50	6.24	50	38	302	.129	23.9	603±4	614±46	✓

tve spikes in priming — " — " — " — " — " — " — " —

Date ..... **UWA mount no(s)** ..... **Page no.** .....

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Sample/ Std ID	Time on printout	**UO/U 254/238**	**196 (zr) Kcps**	206 cps	U ppm	f_{206} %	Sensit.	Age+/-1σ (Ma) 206/238	207/206	Offsets OK?
Alternative		***UO2/UO 270/254***	***194 (xt) 200 (tnt) 203 (mz)***	*206 cps*	*254 270 Kcps*	*204 cps*	*196/194 264 Kcps*	*206/238 206/254 206/270*	*207/206*	*Check after each!!!*
C.12-1 ~~C11-1~~	02:09	6.38	47	41	316	0.60	24.3	592±6	545±54	✓
TEM.11-1	02:31	6.42	51	54	663	.42	25	432±3 ~~428~~	279±36	✓
TEM.12-1	02:51	6.41	48	11	128	.87	24.4	417±6	—	✓
B.13-1	3:14	5.91	50	36	282	.61	22.8	635±7	541±58	✓
B.13-2	3:34	6.02	49	51	387	.08	23.3	614±5	618±32	✓
B.14-1	3:54	6.23	48	36	309	.27	23	588±4	554±61	✓
B.15-1	04:16	6.46	50	54	448	.22	25.2	581±4	527±46	✓
TEM.13-1	04:38	5.96	54	10	122	2.9	24.4	413±5	—	✓
C.13-1	04:59	5.99	52	88	276	.10	25	1419±9	2367±9	✓
C.13-2	05:18	6.19	50	64	474	.02	23.5	613±3	603±28	✓
C.14-1	05:39	6.06	45	88	444	.08	21.5	1006±7	2046±12	✓
C.15-1	0558	6.18	49	46	359	-ve	23	623±4	660±21	✓
C.16-1	06:20	6.17	51	51	382	.17	24.1	630±4	558±31	✓
C.17-1	06:43	6.39	52	44	303	.16	25.6	623±5	701±33	✓
C.18-1	07:03	6.24	50	54	419	.19	23.8	607±4	591±29	✓
C.19-1	07:23	5.99	52	21	240	.15	23.7	620±5	637±58	✓
C.20-1	07:44	6.39	49	80	257	.01	25.5	1448±9	2408±11	✓
TEM.14-1	08:10	6.09	50	8	97	1.6	23.5	439±7	128±172	✓ some pri spikes.
TEM.15-1	08:31	6.19	48	14	168	.97	23.4	429±5	—	✓

Value corrected