

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: *24/8/95* UWA Mount No.: *95-09* Whose sample?: *Yumin Qiu* Operator(s): *IF+YQ*

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian Count time (secs):	2	<i>10</i>	10	<i>10</i>	30	10	5	5	2
Delay time (secs):	7	3	1	2	1	1	3	2	2
Phanerozoic Count time (secs):	2	10	10	10	10	10	5	5	2
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 = *8.165* actual 204-bkg = *0.045* expected resolution = >4200
 Primary = *1.8* nA PESABM = *33* pA actual resolution = *4885*
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = *55*

Comments:

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238 207/206	Corr.
	<i>There might be a bogus "sl" in the PRAWN file which needs to be altered.</i>									
	<i>238 248 254</i>	<i>sl 509.311</i>	<i>12:37</i>	<i>6.14</i>	<i>11K</i>	<i>1076</i>	<i>-</i>	<i>0.6 0.02</i>	<i>-</i>	<i>571 208</i>
	<i>196 206 238 248 254</i>	<i>sl 3-12</i>	<i>13:00</i>	<i>5.98</i>	<i>11.5K</i>	<i>1110</i>	<i>241</i>	<i>0.2 0.02</i>	<i>563</i>	<i>536 208</i>
	<i>206 208 238 254</i>	<i>3-13</i>	<i>13:22</i>	<i>6.22</i>	<i>11K</i>	<i>1120</i>	<i>211</i>	<i>0.2 0.07</i>	<i>589</i>	<i>549 208</i>
	<i>u509A.304</i>	<i>—</i>	<i>high 204</i>	<i>—</i>	<i>abandon</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>
	<i>196 208 238</i>	<i>u 30-2</i>	<i>13:55</i>	<i>6.43</i>	<i>13.4K</i>	<i>4888</i>	<i>175</i>	<i>35. 0.7</i>	<i>2044</i>	<i>2663 204</i>
	<i>196 206 208 238 248 254</i>	<i>31-1</i>	<i>14:18</i>	<i>6.35</i>	<i>12.9K</i>	<i>6360</i>	<i>233</i>	<i>20. 0.3</i>	<i>2151</i>	<i>2629 204</i>
	<i>196 206 208 238 248 254</i>	<i>sl 3-14</i>	<i>14:41</i>	<i>6.10</i>	<i>11.6K</i>	<i>1195</i>	<i>236</i>	<i>-ve 0.04</i>	<i>572</i>	<i>538 208</i>
	<i>196 206 208 248 254</i>	<i>u 32-1</i>	<i>15:02</i>	<i>6.34</i>	<i>12.6K</i>	<i>15K</i>	<i>583</i>	<i>195. 1.2</i>	<i>2090</i>	<i>2540 204</i>
	<i>33-1</i>	<i>—</i>	<i>high 204</i>	<i>—</i>	<i>abandon</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>
	<i>196 206 208</i>	<i>33-2</i>	<i>15:31</i>	<i>6.58</i>	<i>12K</i>	<i>9850</i>	<i>365</i>	<i>175. 1.7</i>	<i>2036</i>	<i>2700 204</i>

Rejection over-ride Sample/Std ID Time - printout UO/U 196 cps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Corr.

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238 207/206	Corr.
	u509A.341		high 204 - abundance							
	35-1	16:02	6.53	11.8K	9595	275	117.	1.1	2620 2729	204
	sl509.315	16:36	6.24	10.8K	1107	217	0.9	0.01	575 660	208
	u 36-1	16:58	6.29	7.4K	7082	447	46.	0.3	2228 2548	204
	37-1		high 204							
	38-1	17:31	6.56	8.8K	15K	718	59.	0.3	2214 2556	204
	39-1		high 204							
	40-1	17:59	6.90	11K	16K	289	68	0.4	2532 2735	204
	sl 3-16	18:22	6.16	12.7K	1284	223	0.6	0.05	574 -	208
	u509C.30	18:45	6.93	10.5K	19.6K	602	17.7	.09	2364±3 2408±3	204
	C31-1	19:08	6.55	11.6K	10.2K	367	16.7	.15	2205±4 2617±4	204
	C32-1	19:32	6.04	14.1K	1879	84	16.8	.79	1914±6 2589±12	204
	C33-1	19:55	6.2	11.4K	12.5K	446	7.9	.05	2595±4 2662±3	204
	C5-3	20:21	6.31	12.6K	662	207	5.7	.08	2561±5 2676±4	204
	C22-2	20:44	6.71	12.7K	11.5K	342	22.0	2.1	2270±4 2512±7	204
	C8-4	21:07	6.43	12.6K	9.3K	265	13.	.1	2627±5 2638±4	204
	sl429 H	21:52	6.396	11.3K	1279	223	1.1	.04	573±1 484±21	208
	429. C1-1	22:27	6.17	13.6K	5888	189	39.9	-.62	2476±5 2620±6	204
	C2-1	22:51	6.57	11.4K	7570	221	3.8	.05	2616±5 2648±4	204
	C3-1	23:12	6.46	12.2K	7677	232	7.2	.09	2536±5 2641±4	204
	C4-1	23:37	6.38	12.1K	6378	198	3.1	.04	2594±6 2654±4	204
	C5-1	23:59	6.33	12.1K	4820	155	0.2	.004	2577±6 2646±5	204
	C6-1	0:23	6.34	12.1K	7904	249	1.1	.01	2608±5 2651±4	204
	sl429 H	0:54	6.32	12.5K	1243	209	0.6	.11	556±1 572±21	208
	4-2	1:23	6.21	12.8K	1266	219	1.1	.08	558±1 576±20	208

HV for sample change

27 extraction checked

ditto (is something changing up?)

196 206 208 238 254 Y. QIU takeover

Pop C. 196 204 206 208 238 254 YQ6

196. 206. 208.

208

208

196 206 208 Core #

196. 206. 208. 238. 254 Core #

94-29 (YQ3) 196 206 208

196 206 208 238

204 206 248

196. 206. 208 248 254

196 206 248

196 206 208

206 254

206 208

Rejection over-ride Sample/Std ID Time - printout UO/U 196 cps 206 cps U ppm 204Pb ppb f206 % Age ±1σ (Ma) 206/238 207/206 Corr.

206 238 248 254	U429.C74	1:46	6.45	11.8K	3861	137	1.8	.04	2289±6	2573±6	204
196 206 207	8-1	2:06	6.59	11.4K	5757	195	1.4	.02	2306±5	2634±5	204
196 206 207 208 254 238	9-1 9-1	2:32	6.41	14.2K	5604	246	5.2	.11	1645±3	2313±5	204
238 248 254	S1429.4-3	2:55	6.17	12.1K	1216	225	1.5	.09	565±1	604±21	208
196 206 208	4-4	3:18	6.32	12.K	1246	218	1.6	.14	561±1	607±20	208
196 208 238 254	9-2	3:40	6.37	13.3K	10.91K	387	9.6	.09	2133±3	2477±4	204
196.206 207 248	10-1	4:03	6.56	12.2K	9795	353	12.2	.13	2888±3	2515±4	204
196.206 207 238 254 238	11-1	4:28	6.596	11.8K	5267	169	0.5	.01	2353±5	2616±5	204
196.206 208 238	11-2	4:51	6.31	12.4K	6462	200	0.7	.01	2609±6	2652±4	204
196.206 207 238 254 238	12-1	5:13	6.23	12.4K	7007	222	1.3	.02	2634±5	2608±4	204
196.204 208 238	13-1	6:35	6.19	13.2K	5107	170	46.	.81	2430±6	2632±7	204
196.206 207 208 254	14-1	5:57	6.28	12.9K	6573	228	32.4	.45	2322±5	2609±5	204
206 254	4-5	6:22	6.32	12.41K	1319	217	2.8	.06	573±1	575±20	208
206 207 208 254	15-1	6:46	6:22	12.4K	5994	188	1.0	.04	2680±6	2643±5	204
196.206 206 208 238	16-1	7:07	5.94	13.3K	5148	185	7.2	.11	2551±6	2633±5	204
196. 238. 208	17-1	7:30	6.28	12.2K	5574	179	1.2	.02	2595±6	2645±5	204
196. 207 208 238 248 254	17-2	7:51	6.21	12.31K	5655	205	-0.1	/	2399±5	2620±5	/
196 254 196 196. 238	18-1	8:16	6.29	11.2K	5432	194	0.1	.001	257K	2643	204
	19-1	8:39	6.36	12.1K	6786	211	1.7	.02	2587±5	2645±4	204
196. 238	20-1	9:00	6.17	13.2K	5107	193	2.	.03	2332±5	2580±5	204

12 STD

2r/u

UO/U

Pb*/U

1.97957

6.23086

0.20018

12 STD

1.97957

6.23086

0.20018

94-29C 23

95-9A 8

95-9C 7

1std dev % : 2.08 %