

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date 21/7/96 UWA Mount No. 96-23 Whose sample? MEB Operator(s) April.

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	2	10	10	10 ²⁰ 30 10*	10	5	5	2
Phanerozoic*	Delay time (secs):	7	3	1	2	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.166 actual 204-bkg = 0.04 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5090

Primary = 2.0 nA PESABM = 29 pA actual Primary : PESABM (= 50:1) = 69
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments:

*1° opiky → > than normal # of reject².
 2 min raster*

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.	
	<u>206, 238, 248, 254</u>	<u>SL 1-2</u>	<u>3:31</u>	<u>7.56</u>	<u>11.5</u>	<u>1573</u>	<u>215</u>	<u>1.6</u>	<u>0.05</u>	<u>564 ± 1.1</u>	<u>577 ± 31</u>	<u>208</u>
	<u>196, 206, 208, 238</u>	<u>SL 1-1</u>	<u>3:48</u>	<u>7.60</u>	<u>11.4</u>	<u>1516</u>	<u>208</u>	<u>0.7</u>	<u>0.08</u>	<u>556 ± 1.1</u>	<u>549 ± 32</u>	<u>208</u>
	<u>196, 206, 238, 248</u>	<u>A. 2-2</u>	<u>4:11</u>	<u>7.46</u>	<u>11.3</u>	<u>138</u>	<u>226</u>	<u>-ve</u>	<u>0.63</u>	<u>51 ± 0.2</u>	<u>0</u>	<u>208</u>
	<u>238, 248, 254</u>	<u>A. 2-3</u>	<u>4:31</u>	<u>7.61</u>	<u>11.0</u>	<u>127</u>	<u>209</u>	<u>-ve</u>	<u>0.44</u>	<u>49 ± 0.2</u>	<u>0</u>	<u>208</u>
	<u>196, 206, 208, 238, 248</u>	<u>A. 2-4</u>	<u>4:49</u>	<u>7.93</u>	<u>10.0</u>	<u>152</u>	<u>223</u>	<u>1.7</u>	<u>2.38</u>	<u>49 ± 0.2</u>	<u>0</u>	<u>208</u>
	<u>196, 206, 207, 238, 254</u>	<u>SL 1-3</u>	<u>5:08</u>	<u>7.41</u>	<u>11.2</u>	<u>1516</u>	<u>220</u>	<u>-ve</u>	<u>0.03</u>	<u>574 ± 1.2</u>	<u>608 ± 31</u>	<u>208</u>
	<u>248, 254</u>	<u>A. 5-2</u>	<u>5:27</u>	<u>7.81</u>	<u>10.7</u>	<u>35.1</u>	<u>54</u>	<u>0</u>	<u>2.5</u>	<u>50 ± 0.3</u>	<u>0</u>	<u>208</u>
	<u>196, 238, 248, 254</u>	<u>A. 5-3</u>	<u>5:44</u>	<u>7.36</u>	<u>11.3</u>	<u>110</u>	<u>188</u>	<u>1.1</u>	<u>1.77</u>	<u>51 ± 0.2</u>	<u>0</u>	<u>208</u>
	<u>196, 248, 254</u>	<u>A. 15-2</u>	<u>6:03</u>	<u>7.64</u>	<u>9.9</u>	<u>77.7</u>	<u>142</u>	<u>-ve</u>	<u>1.06</u>	<u>49 ± 0.2</u>	<u>0</u>	<u>208</u>
	<u>196, 206, 238, 248, 254</u>	<u>A. 15-3</u>	<u>6:24</u>	<u>7.87</u>	<u>10.3</u>	<u>31.9</u>	<u>46.6</u>	<u>0.9</u>	<u>3.81</u>	<u>52 ± 0.4</u>	<u>0</u>	<u>208</u>
	<u>196, 248, 254</u>	<u>SL 1-4</u>	<u>6:43</u>	<u>7.50</u>	<u>10.4</u>	<u>1475</u>	<u>223</u>	<u>0.5</u>	<u>0.02</u>	<u>572 ± 1.2</u>	<u>549 ± 32</u>	<u>208</u>

del 1st 206?

del 1st 248 →

A



Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma)		Corr.
									206/238	207/206	
	C4-2	7:01	7.74	10.3	306	166	1.2	19.02	124 ± 0.5	0	208
	AC4-2										
	C4-3	7:18	8.29	7.8	761	461	91	16.4	126 ± 0.3	0	208
	C4-3										
	C11-2	7:41	7.54	10.1	200	156	-ve	0.91	116 ± 0.4	0	208 ✓
	SL7-5	7:58	7.68	10.9	1504	208	1.2	0.06	562 ± 1.2	530 ± 32	208
	C14-2	8:18	7.78	9.8	249	175	0.8	0.75	123 ± 0.3	0	208
	C21-2	8:37	7.53	10.1	267	196	1.7	0.83	123 ± 0.3	-	208
	SL1-6	9:06	7.63	10.5	1469	212	-ve	0.05	566 ± 1.2	584 ± 32	208

del SL6, 204, 196

238
207, 238,
196, 248,
254
206, 238
238, 248,
254
196, 238,
254
196, 204,
238, 254