

UWA SHRIMP DATA LOG

Date: 18/11/00 UWA Mount No. A-07+A-19 Whose sample? Sam B Operator(s) IF + SB + AP

Indicate any change to the following: ^{202 203} 196 204 bkg 206 207 208 ²³² ~~238~~ ²⁵⁴ ~~248~~ ²⁶⁶ ~~254~~ 270

Precambrian Count time (secs): 3 23 10✓ 10✓ 10/20 30/10 10 2 2 2 2
 Phanerozoic* Delay time (secs): 8 8(3 - 1 - 2 - 1 - 1 3 2 2 2 *up in*

Steel: Wein volts / nA = for O⁻; = for O₂⁻; = for NO⁻

dead-time = ³² nanosecs expected resolution = >4200 actual resolution = ⁴⁷⁷⁴

aperture = ^{3.0} microns retardation lens = ¹⁰¹⁴ volts

Expected offsets (amu): 196-204 = 8.170; 204-bkg = 0.045; 204-206 ~ 2.000; 206-207 = 1.000; 206-208 = 2.000

Actual: ²⁰³ 196-204 = ^{1.104} 204-bkg = ^{0.045} 204-206 = ^{2.000}
 206-207 = ^{1.001} ~~206~~-208 = ~~2.000~~ ^{centred}

Primary-epoxy = nA Primary-^{MAD} ~~CZ3~~ = ^{0.32} nA PESABM-CZ3 = pA

Raster time (mins): ³ Raster aperture (microns): ⁷⁰ No. of scans: ⁶

Comments: follows A-07 xeno

From 206 onwards, monazite grains gen v. small < 10µm.

MAD on 99-09

NB: For sample where 203 counts ↓, PESA response was much higher of norm. (upto 20pA)

Rejection override	Sample/ Std ID	Time - printout	^{270/254} UO/UO 2	²⁰³ 196 Kcps	206 cps	UO ₂ ppm Kcps	204Pb ppb cps	²⁰⁸ 206 ²³² %	Age + 1σ (Ma) 206/238 54	207/206	Offsets OK?
✓	MAD.52-1	16:07	1.40	1.6	709	4.9	0.4	0.801	0.202	0.059	✓
	3.143c.a	16:40	1.41	1.3	1279	1.5	0.8	3.32	1.234	0.185	204-bkg 0.047
	3.143c.b	16:59	1.27	1.3	1309	1.6	1.1	3.01	1.007	0.193	"
Scan 5, 6	3.145c.a	17:25	1.53	1.2	1266	1.4	4.3	4.61	1.344	0.308	"
	3.145c.b	17:44	1.16	0.9	862	0.9	17.3	1.63	1.165	0.451	"
	MAD.52-2	18:09	1.44	1.5	700	4.9	0.6	0.835	0.206	0.061	✓
	3.156c.a	18:45	1.34	1.1	1024	1.2	5.1	3.14	1.131	0.250	✓
	3.156c.b	19:04	1.12	0.6	819	0.8	19.0	1.93	1.128	0.479	✓

Just price fail.

Rejection override	Sample/ Std ID	Time - printout	UO/UO Kcps	²⁰³ 196 Kcps	²⁰⁶ cps	U ₀₂ ppm Kcps	204Pb ppb cp	^{208/232} 206 %	Age ±1σ (Ma) 206/238 254	207/206	Offsets OK?
	3.157c.a	19:32	1.42	1.4	1099	1.2	1.6	4.0	1.265	0.198	✓
	3.157c.b	19:50	1.41	0.8	802	0.9	1.3	4.4	1.286	0.199	✓
	3.160c.a	20:23	1.22	1.2	588	0.7	2.4	2.4	1.057	0.224	✓
	3.160c.b	20:43	0.82	1.1	425	0.5	3.4	1.2	0.704	0.275	✓
Put in new mount →	MAD.52-3	21:10	1.43	1.4	723	4.9	0.4	0.844	0.210	0.060	✓
Arc fallout →	MAD.52-4	21:45	1.42	1.4	672	4.7	0.5	0.791	0.204	0.059	✓
I ⁰ = 2.7nA	MAD.52-5 206	23:04	1.47	1.1	564	4.0	0.5	0.805	0.209	0.059	✓
	1.206c.a	23:20	1.47	1.2	4005	4.5	1.9	4.6	1.319	0.190	✓
	1.206c.b	23:51	1.34	1.1	3383	3.8	5.5	2.92	1.182	0.200	✓
very curved	1.206c.a	24:18	0.86	0.3	1282	1.2	5.4	1.33	0.906	0.227	✓
lot of arke failures/jin	MAD.52-6	24:43	1.41	1.2	555	3.9	0.4	0.807	0.202	0.060	✓
curved	1.207c.a	01:16	1.75	1.2	1917	2.1	1.6	3.94	1.427	0.194	✓
	1.182c.g	01:42	1.41	0.9	2791	3.1	14.6	3.99	1.268	0.246	✓
	1.181c.a	02:08	1.25	0.8	1355	1.5	4.4	1.93	1.178	0.234	✓
	1.203c.a	02:36	1.09	0.6	1312	1.3	10.1	1.71	1.079	0.283	✓
	1.203cA.a	03:04	1.00	0.3	670	0.4	7.9	1.71	1.550	0.450	✓
	MAD.52-7	03:28	1.40	1.1	553	3.9	0.5	0.801	0.199	0.061	✓

NB due P
Kaps.
@ 410 nA.