

UWA SHRIMP DATA LOG

Date: **8/1/05** UWA Mount No.: **04-112+** Whose sample?: **MB** Operator(s): **MB**

Indicate any change to the following: ^{202 203} 196* 204 bkg 206 207 208 238² 248²⁵⁴ 254 270

Precambrian Count time (secs): ² 2 ¹⁰ 10 ¹⁰ 10/20* ¹⁰ 10/10* 10 5 5² 2 2

Phanerozoic* Delay time (secs): 8 3 1 2 1 1 3 2 2

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

dead-time = ²⁵ nanosecs expected resolution = >4200 actual resolution = ⁵⁴⁴⁴

aperture = ³⁰ microns retardation lens = ⁹⁹⁴³ 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: 196-204 = ^{~1.006} 204-bkg = ^{0.045} 204-206 = ^{~2.008}

206-207 = ^{~1.006} 206-208 = ^{~2.009}

Primary-epoxy = ^{0.23} nA Primary-CZ3 = ^{0.3} nA PESABM-CZ3 = ^{11.37} pA

Raster time (mins): ² Raster aperture (microns): ⁷⁰ No. of scans: ⁷

Comments:

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ²⁰³ 196 Kcps	206 Kcps	UO _L 204pb ppm	206 pb	^{Th202} 206 %	Age ±1σ (Ma) 206/238 ²⁵⁴ 207/206	Offsets OK?		
	Fv.1-1	10:53	1.2650	2978	10054	13.1	3	262	0.1938	0.0611	✓
Pd95	Ata 1-1	11:17	1.1580	2823	473	165	15	490	0.6648	0.1056	✓
	QMa.1-1	11:39	1.3130	3150	8.4	11.2	2	124	0.1967	0.0566	✓
	04-112A.14	12:04	1.1534	3217	2065	0.4	2	64.4	1.2183	0.1871	✓
	04-112B.14	12:33	1.2396	2984	7500	7 ^{1.48}	7	157	1.2976	0.1923	✓
	Fv.1-2	12:55	1.2857	3020	10285	13.4	7	271	0.1967	0.0613	✓
	04-112C.14	13:20	1.2988	2650	10355	2.17	7	110	1.2349	0.2021	✓
	04-112C.12	13:42	1.2679	3138	9418	2.11	5	122	1.1914	0.1863	✓

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 (mt) 203 (mz)	206 cps	254 270 Kcps	204 cps	196/194 264 Kcps	206/238 206/254 206/270	207/206	Check after each!!!

P095.1-2	14:05	1.1572	2903	515k	184	8	504	0.6486	0.1059	✓
04-112C.1-3	14:28	1.2689	3029	18289	3.9	5	136	1.1922	0.1975	✓
04-112D.1-1	14:52	1.2366	12550	1644	0.32	4	66.3	1.2550	0.2202	✓
04-112E.1-1	15:15	1.2283	2743	175k	34.4	20	172	1.2510	0.1916	✓
Fv.1-3	15:39	1.2792	2890	10371	13.3	4	264	0.1995	0.0591	✓
04-112F.1-1	16:04	1.1732	2566	10992	2.3	8	198	1.1003	0.1862	✓
04-112F.1-2	16:26	1.0315	2121	9377	2.1	2	178	0.9363	0.1836	✓
04-112G.1-1	16:52	1.1733	2516	6549	1.4	4	104	1.1072	0.1889	✓
P095.1-3	17:15	1.2078	2703	422	144	22	387	0.7067	0.1049	✓
Qula.1-2	17:37	1.3503	3048	24	31.6	2	74.3	0.2049	0.0566	✓
04-112G.1-2	17:59	1.1591	2647	32.3	6.8	16	195	1.1082	0.1927	✓
* 04-112I.1-1	18:34	1.5099	2917	5695	2.3	4	120	0.4148	0.2018	✓ * 10 spike 16% on last scan.
04-112I.1-2	18:56	1.1296	2721	8576	1.8	5	124	1.0897	0.1851	✓
04-112E.1-1b	19:18	1.3847	2519	187k	36.8	31	172	1.4082	0.1928	✓
Fv.1-4	19:41	1.3123	2669	9.8k	12.5	1	244	0.0581 0.0203 0.2032	0.0581	✓
04-112C.1-3b	20:13	1.2266	3250	13237	2.8	6	130	1.1326	0.1911	✓
04-112C.1-1b	20:33	1.1610	3388	9178	1.8	15	98.1	1.1632	0.1849	✓
P095.1-4	20:56	1.1782	2716	421	144	10	371	0.6880	0.1043	✓
04-112 O.U.T.										
Sample change + problems with IVMS & pumps										
C-58 IN:										
Fv.1-5	23:07	1.3723	2950	16100	15.2	10	262	0.2033	0.0621	✓
JH60.2-1	23:40	1.2041	2846	12854	2.5	39	208	1.2230	0.2130	✓

