

The Doc's Battery Test Report

Battery Details	
Brand	Fuji 2100
Size	AAA AA C D 9V 6V
Type	Ni-MH Ni-Cd RAM Alkaline Titanium
Current in mAhs	2100
Stated Voltage	1.5 volts 1.2 volts
Number of batteries	Single Set of 2 Set of 4
Battery Set used	Set 1
Times charged before test started	11
Charger used to charge	Rezap RBC883 Vanson Speedy Box UBA4
Time Batteries charged in charger	See UBA graph.

Test Procedures	
Spreadsheet name	Fuji2100NiMH-AA-Set1.123 (Discharge data file)
UBA file name	Fuji2100NiMH-AA-Set1-11.uba (Charge file)
Select Resistance 5 or 10 ohms	5 ohms 10 ohms
Voltage cut off	3.5 volts 3.6 volts
Date of test	21/02/04

Summary of test	
Voltage	Starting voltage 5.4 volts, cut off voltage 3.6 volts
Test duration	8,245 seconds or 137.41 minutes
Max Battery Temp	33.4 degrees Celsius
Min Battery Temp	29.9 degrees Celsius

Methodology

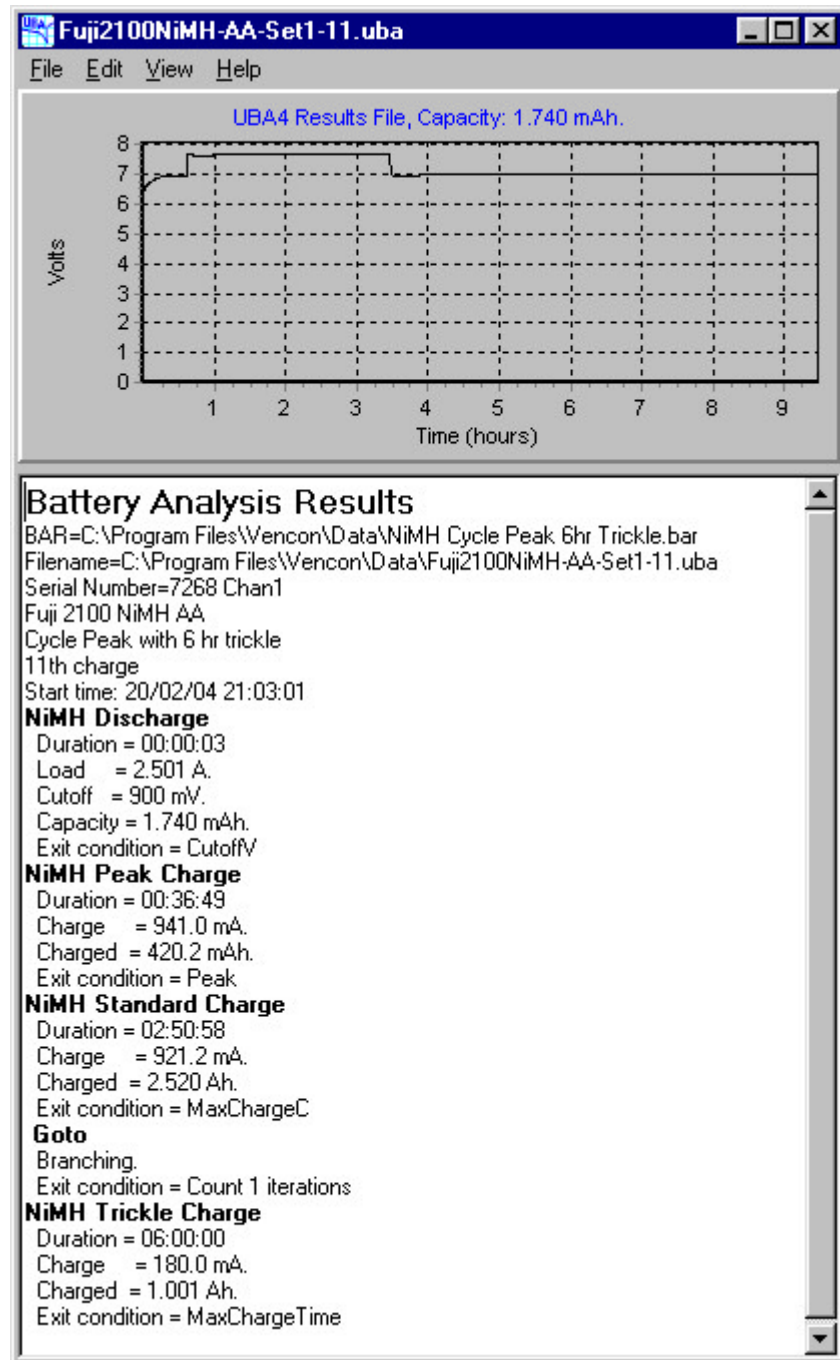
The usual methodology was used here. The Fuji batteries appear to be made by Sanyo, so we would expect to see a similar performance to the Sanyo 2100's. Lets see what actually happens. The following pages give various data, including:

1. charging information from the UBA4;
2. a graph of the voltage during the test (cut off voltage being 3.6 volts);
3. a graph of the battery temperature during the test; and
4. a graph of the battery temperature verse ambient air temperature during the test.

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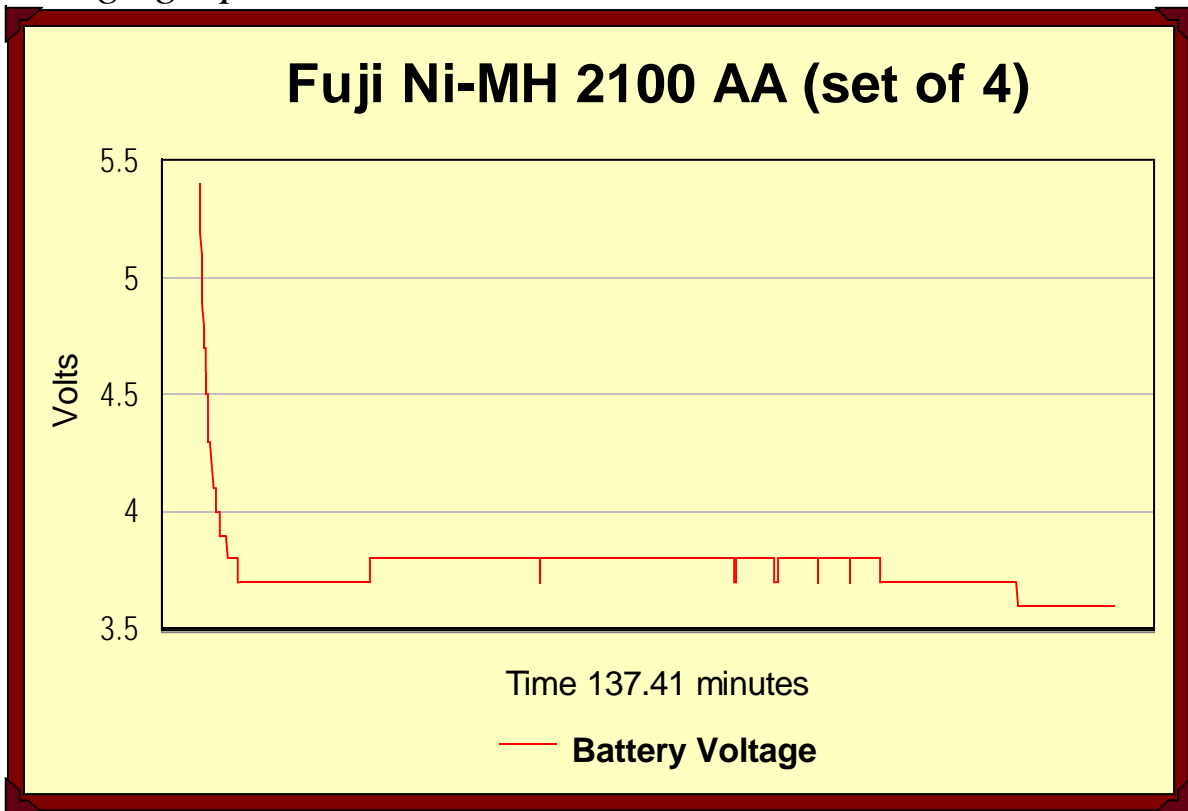
UBA report

The graph and charging information from the UBA4.

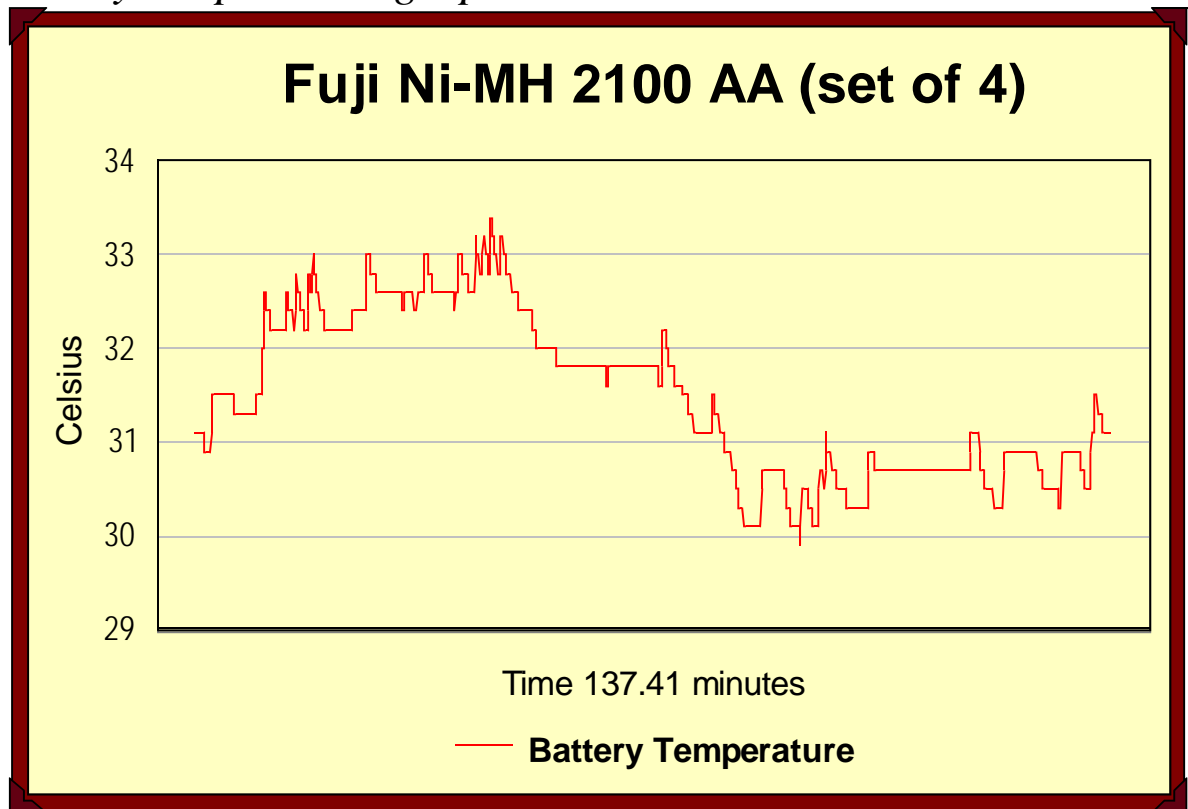


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Voltage graph

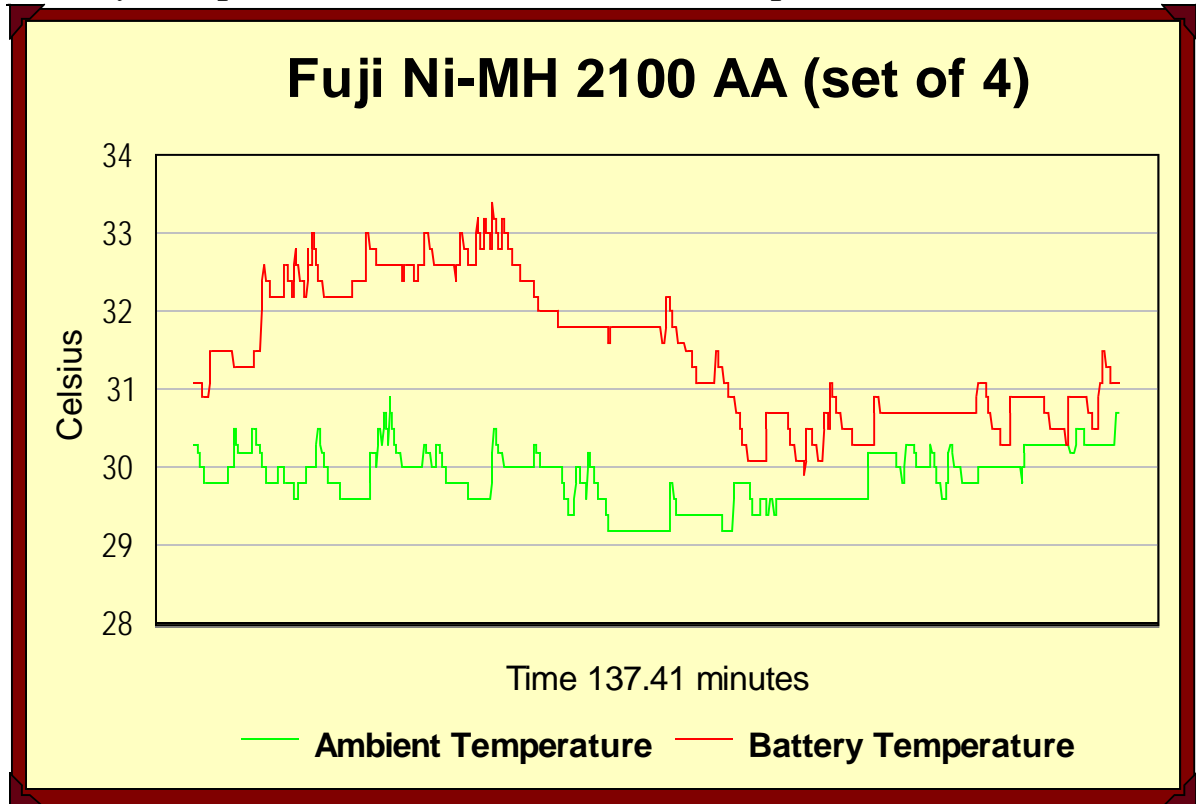


Battery temperature graph



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Battery temperature -v- Ambient air temperature



Conclusion

The results of the Fuji 2100 battery set was disappointing. The Fuji have the appearance of being made by Sanyo, but the voltage and temperature profile graphs and obviously performances are well below that of the Sanyo 2100. Buy the Santo 2100s instead.

Run Time (5 ohm)	137.41 minutes
Battery build quality	Excellent
Place of Origin	Japan
Cost (set of 4)	AUD\$25.00

Report date: 21 March 2004

<http://www.users.on.net/mhains/>

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