



Test results for FWT-8000 Tri-mode Cellular Handset
Frequency Stability vs. Temperature

Date of Test: February 16, 2001
Test Engineer: Shahrokh Zardoshti
Unit Serial Number: 003
Test Equipment: HP 8920B Radio Test Set
Temperature Chamber, -50°C to +100°C
HP E3630A Power Supply

Test Method: The unit under test was connected to an external power supply set at 3.6volts and the RF output connected to the HP 8920B via a calibrated coaxial cable. The unit under test was placed inside the temperature chamber and the DC leads and RF output cable exited the chamber through an opening made for that purpose.

The chamber was allowed to stabilize for 20 minutes at each temperature before each frequency and power reading was taken with the HP 8920B. A printout from the HP 8920B is included for reference.

Tx Frequency: 836.01 MHz
Tolerance: +/- 2091 Hz

Temperature (°C)	Frequency (MHz)	Difference (“ Hz)	Output Power (dBm)
60	836.009277	-723	21.20
50	836.010049	49	21.94
40	836.010179	179	22.70
30	836.009917	-83	23.41
20	836.009694	-306	23.73
10	836.009581	-419	24.58
0	836.009806	-194	25.10
-10	836.010738	738	26.06
-20	836.011400	1400	26.66
-30	836.011575	1575	27.43