

850M Frequency Stability

Measurement Results

Measurement Results vs. Variation of Temperature

- **GPRS Mode, 3.3V DC Channel No.192(837.0MHz)**

Table 1 Measurement Results vs. Variation of Temperature—GPRS Mode

Temperature	Power (dBm)	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 ℃	33	837.0	-30	Pass
-20 ℃	33	837.0	-25	Pass
-10 ℃	33	837.0	24	Pass
0 ℃	33	837.0	23	Pass
+10 ℃	33	837.0	25	Pass
+20 ℃	33	837.0	11	Pass
+30 ℃	33	837.0	-3	Pass
+40 ℃	33	837.0	-10	Pass
+50 ℃	33	837.0	3	Pass

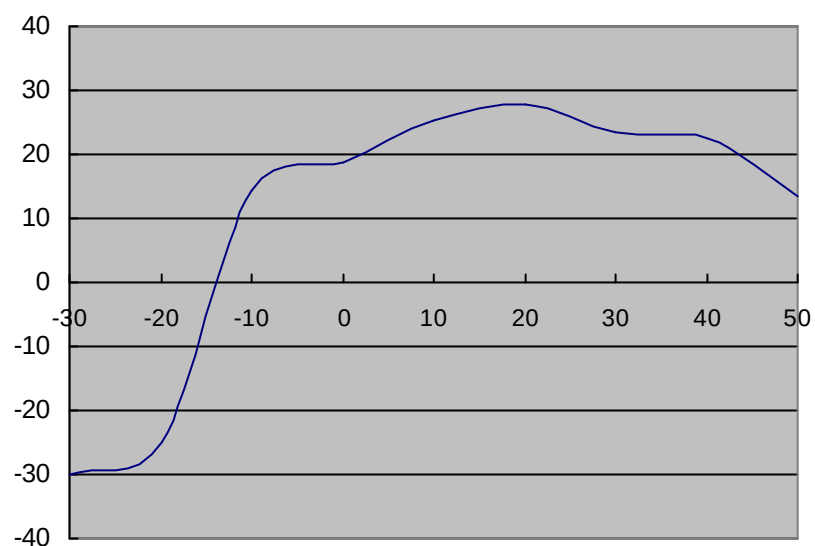


Figure 1.GPRS Mode Test Graph

- **GDGE Mode, 3.3V DC Channel No.192(837.0MHz)**

Table 2 Measurement Results vs. Variation of Temperature—EDGE Mode

Temperature	Power (dBm)	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 ℃	27	837.0	12	Pass
-20 ℃	27	837.0	-9	Pass
-10 ℃	27	837.0	42	Pass
0 ℃	27	837.0	40	Pass
+10 ℃	27	837.0	39	Pass
+20 ℃	27	837.0	-10	Pass
+30 ℃	27	837.0	-9	Pass
+40 ℃	27	837.0	16	Pass
+50 ℃	27	837.0	29	Pass

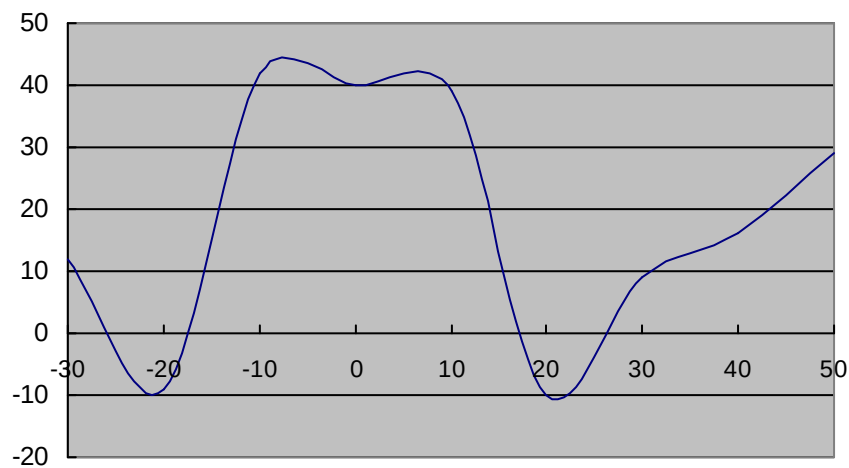


Figure 2. EDGE Mode Test Graph

● **UMTS Mode, 3.3V DC Channel No.4182(836.4MHz)**

Table 3 Measurement Results vs. Variation of Temperature—UMTS Mode

Temperature	Power (dBm)	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 ℃	24	836.4	6	Pass
-20 ℃	24	836.4	4	Pass
-10 ℃	24	836.4	6	Pass

0 °C	24	836.4	4	Pass
+10 °C	24	836.4	9	Pass
+20 °C	24	836.4	5	Pass
+30 °C	24	836.4	3	Pass
+40 °C	24	836.4	6	Pass
+50 °C	24	836.4	6	Pass

