

Report Number: 06-0011

Issue Date: April 18, 2006

Customer: Sicom test s.r.l.

Model: GM862-QUAD / GM862-QUAD-PY Modular Transmitter

2.11 Frequency Stability (FCC Section 2.1055 and 24.235)

The frequency tolerance of the carrier signal was measured by while ambient temperature was varied from -30 to 50 degrees centigrade. The frequency tolerance was verified at 10 degree increments.

The supply voltage was then varied at the +/- 15% of the nominal value.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC Minimum Standard

None

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FCC
 Certification
 Sicom Quad
 862

Frequency Stability vs. Temperature (At Startup)

Table 6 a.

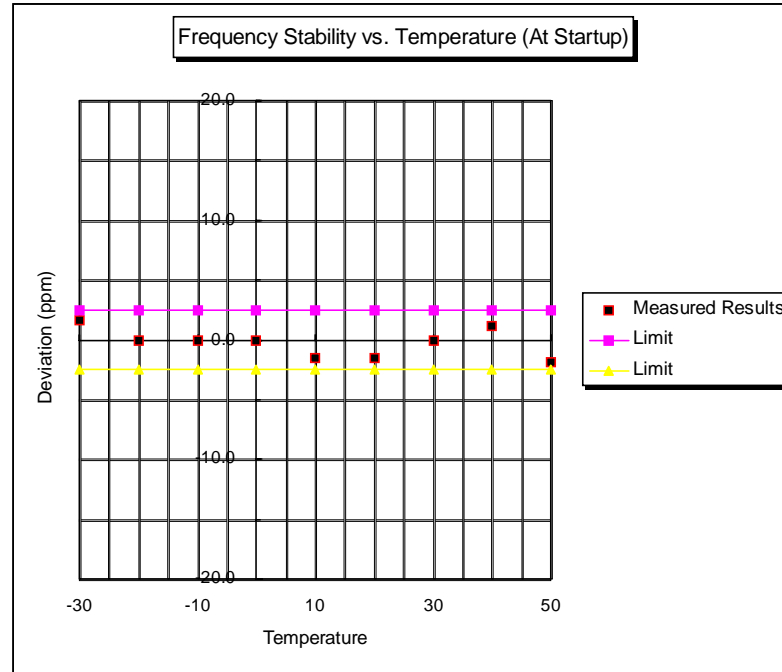
Test Results Reviewed
 By:



Louis A.
 Feudi

Temperature (degrees C)	Measured Frequency (MHz)	Deviation (ppm)
-30	824.1200	1.6
-20	824.1187	0.0
-10	824.1187	0.0
0	824.1187	0.0
10	824.1175	-1.5
20	824.1175	-1.5
30	824.1187	0.0
40	824.1196	1.1
50	824.1172	-1.8

Actual TX Frequency was: 824.1187 MHz
 Maximum Deviation = 0.0000025% or 2.5ppm
 Reference Point from 20 degrees C:
 824.1187 MHz



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 Frequency Stability vs.
 Voltage

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Voltage (V DC)	Measured Frequency (MHz)	Deviation (ppm)
3.23	824.1041	-1.5
3.8	824.1053	0.0
4.3	824.1066	1.6

Actual TX Frequency was: 824.1053 MHz
 Maximum Deviation = 0.0000025% or 2.5ppm
 Reference Point From 20 degrees C:
 824.1053 MHz

