

2.995(a)(b)(d) Frequency stability:
74.861(e)(4)

Temperature and voltage tests were performed to verify that the frequency remains within the .0050%, (50 ppm) specification limit.

The test was conducted as follows: The transmitter was placed in the temperature chamber at 25 degrees C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which four frequency readings were recorded at 15 second intervals. The worse case number was taken for temperature plotting. The assigned channel frequency was considered to be the reference frequency. The temperature was then reduced to -30 degrees C after which the transmitter was again allowed to stabilize for one hour. The transmitter was keyed ON for one minute, and again frequency readings were noted at 15 second intervals. The worst case number was recorded for temperature plotting. This procedure was repeated in 10 degree increments up to + 50 degrees C.

MEASUREMENT DATA:

Assigned Frequency (Ref. Frequency): 214.819 800

TEMPERATURE_C	FREQUENCY_MHz	PPM
-30	214.810 680	-42.45
-20	214.811 320	-39.48
-10	214.812 170	-35.61
0	214.814 490	-24.79
10	214.816 410	-15.78
20	214.819 270	- 2.47
30	214.820 730	+ 4.32
40	214.821 380	+ 7.36
50	214.822 150	+10.93

25c END BATT. Volt(1.5)= 1.00VDC 214.820 170 + 1.72

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -42.45 to +10.93 ppm. The maximum frequency variation at the battery end-point was +1.72 ppm.

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