

## **Exhibit 16 Frequency Stability**

### **2.1055 MEASUREMENTS REQUIRED: FREQUENCY STABILITY.**

(b) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short term transient effects on the frequency of the transmitter due to keying (except for broadcast transmitters) and any heating element cycling normally occurring at each ambient temperature level also shall be shown. Only the portion or portions of the transmitter containing the frequency determining and stabilizing circuitry need be subjected to the temperature variation test. (Added 74-113, 3/25/74)

### **2.1055 MEASUREMENTS REQUIRED: FREQUENCY STABILITY.**

(d) The frequency stability shall be measured with variation of primary supply voltage as follows:  
(Added 74-113, 3/25/74)

(1) Vary primary supply voltage from 85 to 115 percent of the normal value for other than hand carried battery equipment. (Added 74-113, 3/25/74)

### **Broadcast Electronics Response**

Below is a table showing the frequency response of the Exciter (917-0300). Due to the precision voltage regulators used in the exciter section of this product, no measurable frequency change was noticed as the line voltage was varied 85% to 115% (187 V to 253 V).

Temperature (C)	Frequency (Hz)	Error (Hz)	Error (ppm)
0	1,600,003.0	+3.0	1.88
5	1,600,002.8	+2.8	1.75
10	1,600,002.6	+2.6	1.63
15	1,600,002.6	+2.6	1.63
20	1,600,001.9	+1.9	1.19
25	1,600,000.9	.+9	.56
30	1,599,999.8	-.2	.13
35	1,599,999.4	-.6	.38
40	1,599,999.2	-.8	.5
45	1,599,999.2	-.8	.5
50	1,599,999.2	-.8	.5