

6a.5 Land Mobile Frequency Stability -- Pursuant 47 CFR 2.1055a (1) & 2.1055(d) 2

Frequency stability measurements were made as described in paragraph 7.4. Because of the transmitter's dependence on the stability of the base station oscillator, it is not possible to provide stability data for this transmitter as is commonly supplied for certification per 47 CFR 2.1055 for a radio with a locally stabilized oscillator. The following data was collected in a setup comprising of a base station simulator and it represents the absolute frequency error of the transceiver under test versus the base station frequency reference.

Frequency Stability in PPM at 813.5125MHz, Voltage = 4V			
TEMP	Frequency Error (Hz)	Time of the Measurement	PPM
-30	64.86	5/13/2006 @ 8:00 AM	0.080
-20	60.81	5/13/2006 @ 8:00 AM	0.075
-10	71.13	5/13/2006 @ 8:00 AM	0.087
0	65.76	5/13/2006 @ 8:00 AM	0.081
10	52.7	5/13/2006 @ 8:00 AM	0.065
20	43.76	5/13/2006 @ 8:00 AM	0.054
30	75.82	5/13/2006 @ 8:00 AM	0.093
40	61.72	5/13/2006 @ 8:00 AM	0.076
50	88.33	5/13/2006 @ 8:00 AM	0.109
60	59.21	5/13/2006 @ 8:00 AM	0.073

Table 6a-5.1. Transmitter Frequency Stability vs. Temperature in 800 MHz Band

Frequency Stability in PPM at 896.01875MHz, Voltage = 4V			
TEMP	Frequency Error (Hz)	Time of the Measurement	PPM
-30	69.27	5/13/2006 @ 1:00 PM	0.077
-20	83.04	5/13/2006 @ 1:00 PM	0.093
-10	73.09	5/13/2006 @ 1:00 PM	0.082
0	89.75	5/13/2006 @ 1:00 PM	0.100
10	84.4	5/13/2006 @ 1:00 PM	0.094
20	97.04	5/13/2006 @ 1:00 PM	0.108
30	68.92	5/13/2006 @ 1:00 PM	0.077
40	87.75	5/13/2006 @ 1:00 PM	0.098
50	94.73	5/13/2006 @ 1:00 PM	0.106
60	77.99	5/13/2006 @ 1:00 PM	0.087

Table 6a-5.2. Transmitter Frequency Stability vs. Temperature in 900 MHz Band

Frequency Stability in PPM at 813.5125MHz, Temperature = 25°C			
Power Supply Output Voltage	Frequency Error in Hz	Date and Time of the Measurement	PPM
3.55	46.18	5/13/2006 @4:00 PM	0.057
3.6	32.37	5/13/2006 @4:00 PM	0.040
3.7	23.44	5/13/2006 @4:00 PM	0.029
3.8	34.68	5/13/2006 @4:00 PM	0.043
3.9	34.22	5/13/2006 @4:00 PM	0.042
4.0	46.09	5/13/2006 @4:00 PM	0.057
4.1	50.46	5/13/2006 @4:00 PM	0.062
4.2	41.11	5/13/2006 @4:00 PM	0.051

Table 6a-5.3. Transmitter Frequency Stability vs. Voltage in 800 MHz Band

Frequency Stability in PPM at 896.01875MHz, Temperature = 25°C			
Power Supply Output Voltage	Frequency Error in Hz	Date and Time of the Measurement	PPM
3.55	83.16	5/13/2006 @5:00 PM	0.093
3.6	63.54	5/13/2006 @5:00 PM	0.071
3.7	80.03	5/13/2006 @5:00 PM	0.089
3.8	58.71	5/13/2006 @5:00 PM	0.066
3.9	88.72	5/13/2006 @5:00 PM	0.099
4.0	70.95	5/13/2006 @5:00 PM	0.079
4.1	91.54	5/13/2006 @5:00 PM	0.102
4.2	94.07	5/13/2006 @5:00 PM	0.105

Table 6a-5.4. Transmitter Frequency Stability vs. Voltage in 900 MHz Band