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)	PPM		
-30	19.86	0.024		
-20	33.44	0.041		
-10	25.89	0.032		
0	18.38	0.022		
10	28.48	0.035		
20	17.98	0.022		
30	28.58	0.035		
40	40.33	0.049		
50	25.18	0.031		
60	28.01	0.034		

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

Frequency Stability in PPM at 900.98125MHz, Voltage = 4V				
TEMP	Frequency Error (Hz)	PPM		
-30	28.16	0.031		
-20	46.93	0.052		
-10	84.39	0.093		
0	52.79	0.058		
10	14.98	0.016		
20	36.97	0.041		
30	41.91	0.046		
40	44.61	0.049		
50	12.28	0.013		
60	39.51	0.043		

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	PPM		
3.55	27.81	0.034		
3.6	39.79	0.049		
3.7	34.14	0.042		
3.8	33.40	0.041		
3.9	29.25	0.036		
4.0	20.05	0.024		
4.1	47.08	0.057		
4.2	27.82	0.034		

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

Frequency Stability in PPM at 900.98125MHz, Temperature = 25°C					
Power Supply Output Voltage	Frequency Error in Hz	PPM			
3.55	11.59	0.013			
3.6	12.35	0.014			
3.7	21.84	0.024			
3.8	11.64	0.013			
3.9	23.21	0.025			
4.0	21.08	0.023			
4.1	21.38	0.024			
4.2	21.31	0.023			

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