

### 6a.5 Land Mobile Frequency Stability -- Pursuant to 47 CFR 2.1055(a)(1), §2.1055(d)(2), and §24.135

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 813.5875MHz, Voltage = 4V			
TEMP	Frequency Error (Hz)	Time of the Measurement	PPM
-30	26.11	6/6/2008 @ 11:00 AM	0.032
-20	35.56	6/6/2008 @ 11:00 AM	0.044
-10	23.27	6/6/2008 @ 11:00 AM	0.029
0	29.52	6/6/2008 @ 11:00 AM	0.036
10	38.66	6/6/2008 @ 11:00 AM	0.048
20	52.58	6/6/2008 @ 11:00 AM	0.065
30	60.57	6/6/2008 @ 11:00 AM	0.074
40	39.74	6/6/2008 @ 11:00 AM	0.049
50	24.44	6/6/2008 @ 11:00 AM	0.030
60	11.38	6/6/2008 @ 11:00 AM	0.040

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

Frequency Stability in PPM at 900.98125MHz, Voltage = 4V			
TEMP	Frequency Error (Hz)	Time of the Measurement	PPM
-30	319.36	6/6/2008 @ 11:00 AM	0.354
-20	273.1	6/6/2008 @ 11:00 AM	0.303
-10	405.04	6/6/2008 @ 11:00 AM	0.450
0	339.09	6/6/2008 @ 11:00 AM	0.376
10	354.08	6/6/2008 @ 11:00 AM	0.393
20	381.96	6/6/2008 @ 11:00 AM	0.424
30	350.57	6/6/2008 @ 11:00 AM	0.389
40	287.16	6/6/2008 @ 11:00 AM	0.319
50	355.46	6/6/2008 @ 11:00 AM	0.395
60	362.98	6/6/2008 @ 11:00 AM	0.403

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

Frequency Stability in PPM at 900.98125MHz, Voltage = 4V			
TEMP	Frequency Error (Hz)	Time of the Measurement	PPM
-30	319.36	6/6/2008 @ 11:00 AM	0.354
-20	273.1	6/6/2008 @ 11:00 AM	0.303
-10	405.04	6/6/2008 @ 11:00 AM	0.045
0	339.09	6/6/2008 @ 11:00 AM	0.376
10	354.08	6/6/2008 @ 11:00 AM	0.393
20	381.96	6/6/2008 @ 11:00 AM	0.424
30	350.57	6/6/2008 @ 11:00 AM	0.389
40	287.16	6/6/2008 @ 11:00 AM	0.319
50	355.46	6/6/2008 @ 11:00 AM	0.395
60	362.98	6/6/2008 @ 11:00 AM	0.403

**Table 6a-5.3. Transmitter Frequency Stability vs. Temperature in 900 MHz NBPCS Band.**

Frequency Stability in PPM at 813.5875MHz, Temperature = 25°C			
Power Supply Output Voltage	Frequency Error in Hz	Date and Time of the Measurement	PPM
3.55	16.63	6/6/2008 @ 11:00 AM	0.020
3.6	14.84	6/6/2008 @ 11:00 AM	0.018
3.7	4.45	6/6/2008 @ 11:00 AM	0.005
3.8	6.93	6/6/2008 @ 11:00 AM	0.009
3.9	10.37	6/6/2008 @ 11:00 AM	0.013
4.0	16.99	6/6/2008 @ 11:00 AM	0.021
4.1	44.95	6/6/2008 @ 11:00 AM	0.055
4.2	5.73	6/6/2008 @ 11:00 AM	0.007

**Table 6a-5.4. Transmitter Frequency Stability vs. Voltage in 800 MHz SMR Band.**

Frequency Stability in PPM at 900.98125MHz, Temperature = 25°C			
Power Supply Output Voltage	Frequency Error in Hz	Date and Time of the Measurement	PPM
3.55	310.22	6/6/2008 @11:00 AM	0.344
3.6	303.28	6/6/2008 @11:00 AM	0.337
3.7	286.95	6/6/2008 @11:00 AM	0.318
3.8	282.58	6/6/2008 @11:00 AM	0.314
3.9	310.52	6/6/2008 @11:00 AM	0.345
4.0	289.06	6/6/2008 @11:00 AM	0.321
4.1	326.72	6/6/2008 @11:00 AM	0.363
4.2	287.37	6/6/2008 @11:00 AM	0.319

**Table 6a-5.5. Transmitter Frequency Stability vs. Voltage in 900 MHz SMR Band.**

Frequency Stability in PPM at 900.98125MHz, Temperature = 25°C			
Power Supply Output Voltage	Frequency Error in Hz	Date and Time of the Measurement	PPM
3.55	310.22	6/6/2008 @11:00 AM	0.344
3.6	303.29	6/6/2008 @11:00 AM	0.337
3.7	286.95	6/6/2008 @11:00 AM	0.318
3.8	282.58	6/6/2008 @11:00 AM	0.314
3.9	310.52	6/6/2008 @11:00 AM	0.345
4.0	289.06	6/6/2008 @11:00 AM	0.321
4.1	326.72	6/6/2008 @11:00 AM	0.363
4.2	287.37	6/6/2008 @11:00 AM	0.319

**Table 6a-5.6. Transmitter Frequency Stability vs. Voltage in 900 MHz NBPCS Band.**