

6b.4 Frequency Stability in the MOTotalk ISM Band -- Pursuant 47 CFR 2.1055a (1) & 2.1055(d) 2

The transmitter was set to transmit on a single frequency of 915.525 MHz using a special test mode not accessible by the user. The data shown below shows the maximum frequency excursion due to temperature and voltage extremes.

Frequency Stability in PPM at 915.525MHz, Voltage = 4V			
TEMP	Frequency Error (Hz)	Time of the Measurement	PPM
-30	99.73	5/14/2006 @ 9:00 AM	0.109
-20	29.17	5/14/2006 @ 9:00 AM	0.032
-10	145.05	5/14/2006 @ 9:00 AM	0.158
0	31.5	5/14/2006 @ 9:00 AM	0.034
10	152.92	5/14/2006 @ 9:00 AM	0.167
20	291.5	5/14/2006 @ 9:00 AM	0.318
30	189.89	5/14/2006 @ 9:00 AM	0.207
40	47.32	5/14/2006 @ 9:00 AM	0.052
50	44.66	5/14/2006 @ 9:00 AM	0.049
60	23.44	5/14/2006 @ 9:00 AM	0.025

Table 6b-4.1 Transmitter Frequency stability vs Temperature at 915.525 MHz

Frequency Stability in PPM at 915.525MHz, Temperature = 25°C			
Power Supply Output Voltage	Frequency Error in Hz	Date and Time of the Measurement	PPM
3.55	46.46	5/14/2006 @ 1:00 PM	0.051
3.6	62.66	5/14/2006 @ 1:00 PM	0.068
3.7	71.97	5/14/2006 @ 1:00 PM	0.079
3.8	82.92	5/14/2006 @ 1:00 PM	0.091
3.9	108.55	5/14/2006 @ 1:00 PM	0.119
4.0	109.02	5/14/2006 @ 1:00 PM	0.119
4.1	119.14	5/14/2006 @ 1:00 PM	0.130
4.2	125.1	5/14/2006 @ 1:00 PM	0.137

Table 6b-4.2 Transmitter Frequency Stability vs Voltage at 915.525 MHz