

Tx Frequency and Transmit Power Test

Date Completed: _____

Performed by: _____

Tested Specifications:

Test #	Engineering Specification	Description	Pass Requirement
T3	ES4	Authorized Transmit Frequency	Binary (OK)
T5	ES6	Transmitter Power Output (TPO)	<30dBm

Revision History:

Revision	Description	Date
1	Document Created	12/9/2010

Equipment Needed:

Name of Equipment	Accuracy
RF Board	-
Spectrum Analyzer	-
Computer (PC)	-
Connecting wires (coaxial and USB wire)	-

Resources Needed:

Software	Current Revision
Place/Room with low noise/interference	-

Test:

Step Number	Check Off	Procedure
1		Connect the PC to the RF board via USB.
2		Connect the Spectrum Analyzer to the output of the RF board using a coaxial cable.
3		Configure to use the first channel and send data continuously.
4		Measure the bandwidth and the Transmitted Power Output and record in the Measured Results Table.
5		Configure to use the sixteenth channel and send data continuously.
6		Measure the bandwidth and the Transmitted Power Output and record in the Measured Results Table.

Measured Results Table:

Variable Name	Recorded Value	Passable Range	Pass/Fail
Bandwidth (Hz) (1st channel)		2400 – 2483.5 MHz (FCC 15.24)	
Bandwidth (Hz) (16st channel)		2400 – 2483.5 MHz (FCC 15.24)	
Transmitter Power Output (TPO) (1st channel)		< 30dBm (+/- 1 dBm)	
Transmitter Power Output (TPO) (16st channel)		< 30dBm (+/- 1 dBm)	

Comments and Calculations:

Sign off on section completion: _____

Date of Sign Off: _____