

#### 7.8 SPURIOUS RF CONDUCTED EMISSIONS

#### 7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

#### 7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 9KHz to 26.5GHz.

#### 7.8.5 Test Results

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

















Stop 1.0000 G Sweep 92.7 ms (1001 p

#VBW 300 kHz



802.11g on channel 01









802.11g on channel 06





Peak Se

Next Pk Righ

Next Pk Lef

Marker Delt

Mkr→Cl

Mkr→RefLv

More 1 of 2

NextPe

Next Pk Righ

Next Pk Lei

Marker Delt

Mkr→CF

Mkr→RefLv

More 1 of 2





Version.1.2



**Test Plot** 





802.11n20 on channel 01



802.11 n20 on channel 01

RL RF 50 R AC	MHz Trig: Free Run	Aug Type: Log-Pwr Avg Hold: 34/100	11:12:57 PM Jun 05, 2019 TRACE 2 3 4 5 6 TVPE MINIMUM	Peak Search
odB/div Ref 20.00 dBm	IFGain:Low Atten: 30 dB	N	Ikr1 980.60 MHz -59.185 dBm	NextPeal
10.0				Next Pk Righ
10.0				Next Pk Le
30.0			-20.37 dBn	Marker Delt
40.0				Mkr→C
00.0 <del>สปารประวัติเหนือสู้เหนือสู้เหนือสู้เป็นสูง</del> 20.0	onanji saji qartan yishinfammaandashi	hjirhadyn dyn arf san ar sh		Mkr→RefLv
Start 30.0 MHz Res BW 100 kHz	#VBW 300 kHz	Sweep	Stop 1.0000 GHz 92.7 ms (1001 pts)	More 1 of:

802.11 n20 on channel 01













RL RF 50Ω AC Display Line -20.57 dBn

2.46200 GH

Ref 20.00 dBm

Start 30.0 MHz Res BW 100 kHz

#VBW 300 kHz

Ref 20.00 dBm



Mkr→RefLv

Stop 1.0000 G Sweep 92.7 ms (1001 p

More 1 of 2

t 1.00 GHz s BW 100 kHz

#VBW 300 kHz

Mkr→RefLv

Stop 26.50 GH Sweep 2.44 s (1001 pt

More 1 of 2



















#### 7.9 ANTENNA APPLICATION

#### 7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 7.9.2 Result

The EUT antenna is permanent attached PIFA antenna (Gain: -2dBi). It comply with the standard requirement.

END OF REPORT