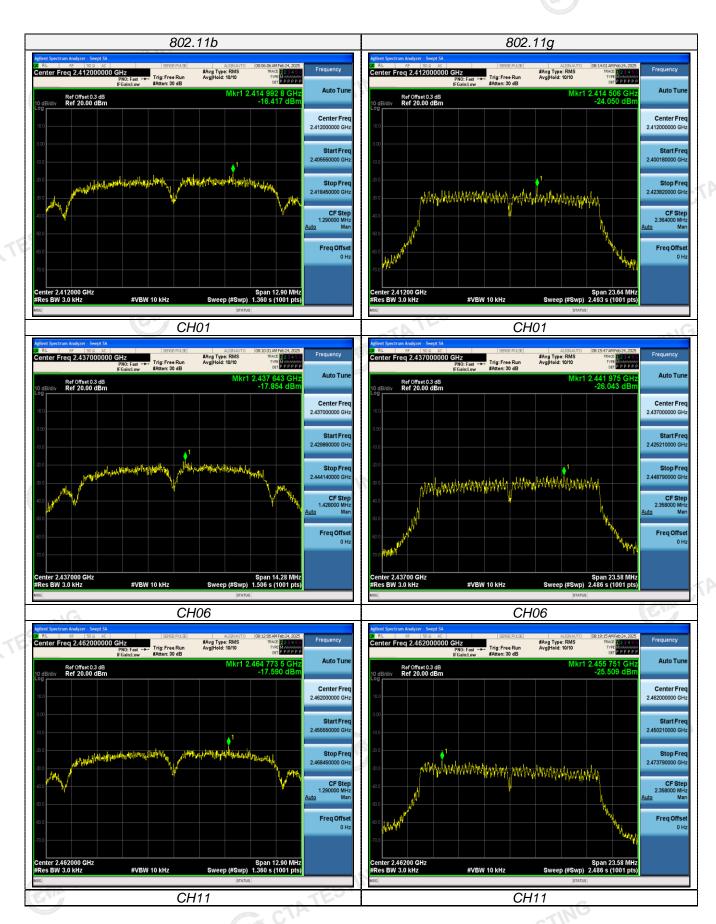
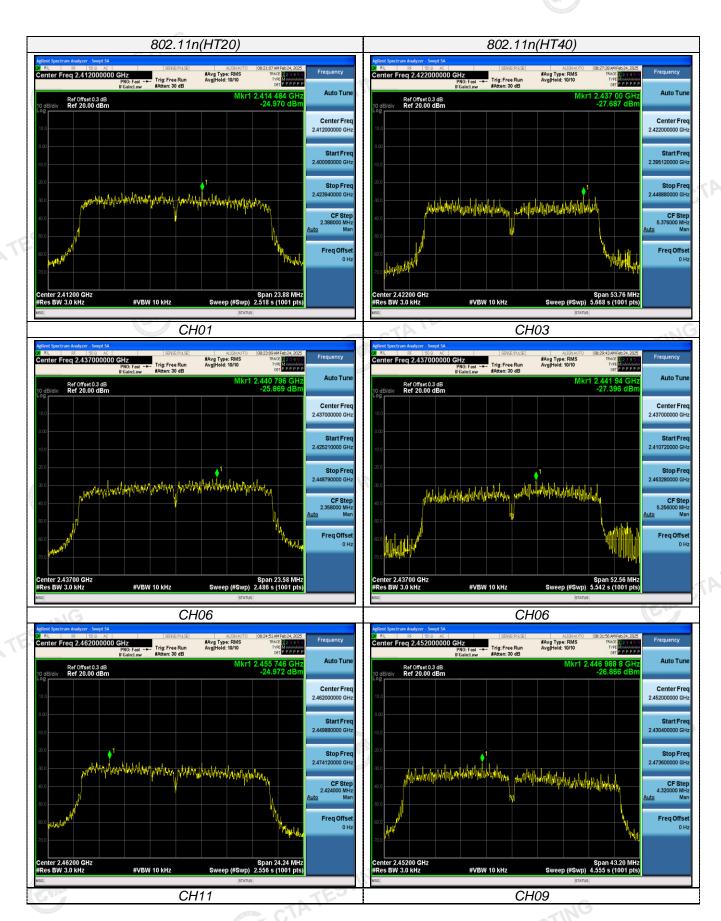
Page 22 of 38 Report No.: CTA25021701203





Page 24 of 38 Report No.: CTA25021701203

4.5 6dB Bandwidth

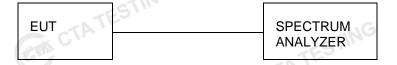
Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

Test Results		CTA TES		ATESTING
Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
	01	8.600	My Manual Line	
802.11b	06	9.520	≥500	Pass
	11	8.600		
TES	01	15.760		
802.11g	06	15.720	≥500	Pass
	11	15.720	· C	
	01	15.920	GTING	
802.11n(HT20)	06	15.720	≥500	Pass
	11	16.160	CAL	
802.11n(HT40)	03	35.840	≥500	Pass
	06	35.040		
ING	09	28.800		

- Measured peak power spectrum density at difference data rate for each mode and recorded worst case for each mode.
- Test results including cable loss:
- CTA TESTING Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;

Please refer to following plots;





Report No.: CTA25021701203 Page 27 of 38

Out-of-band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these setting are CTA TESTING made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration

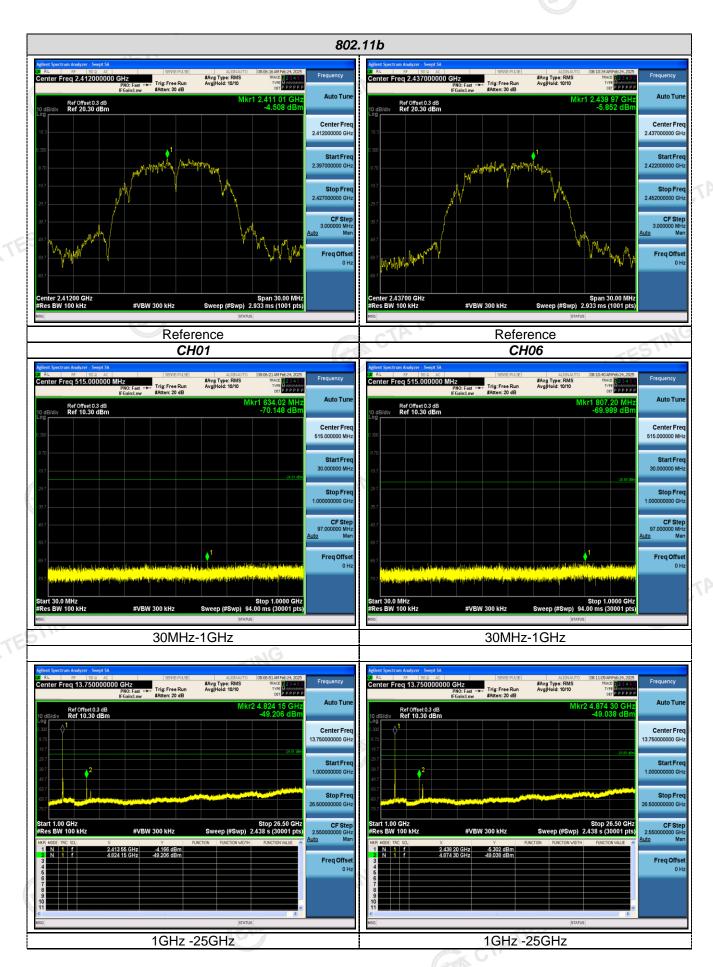


Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data. And record the worst data in the report.

Test plot as follows: CTATESTING

Page 28 of 38 Report No.: CTA25021701203



Page 29 of 38 Report No.: CTA25021701203

