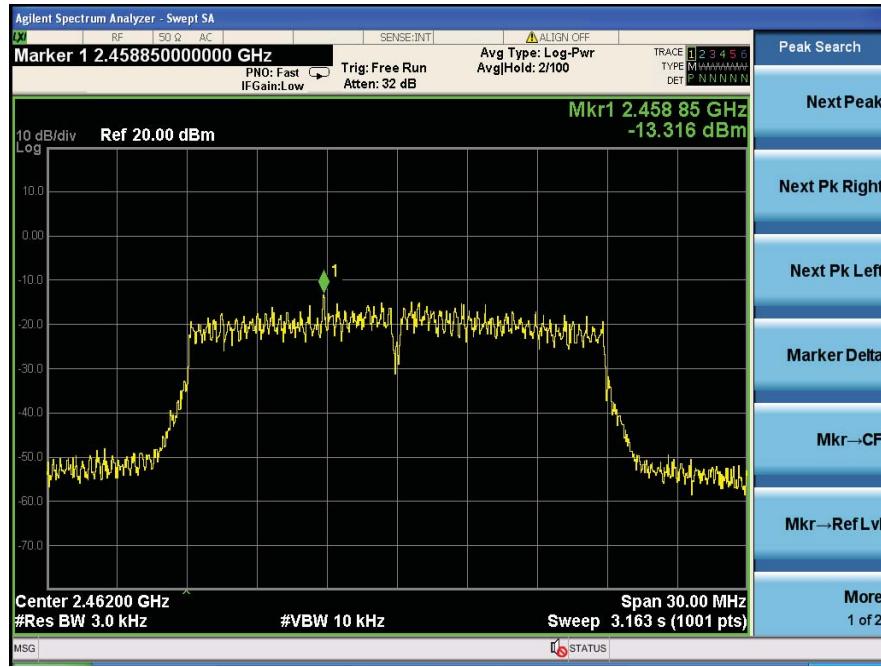
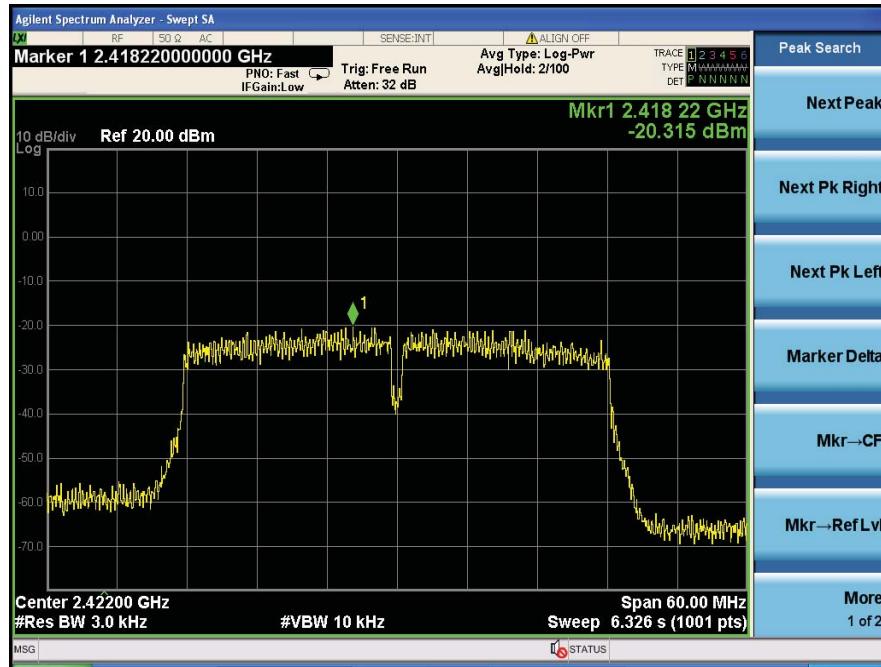


CH Hig:

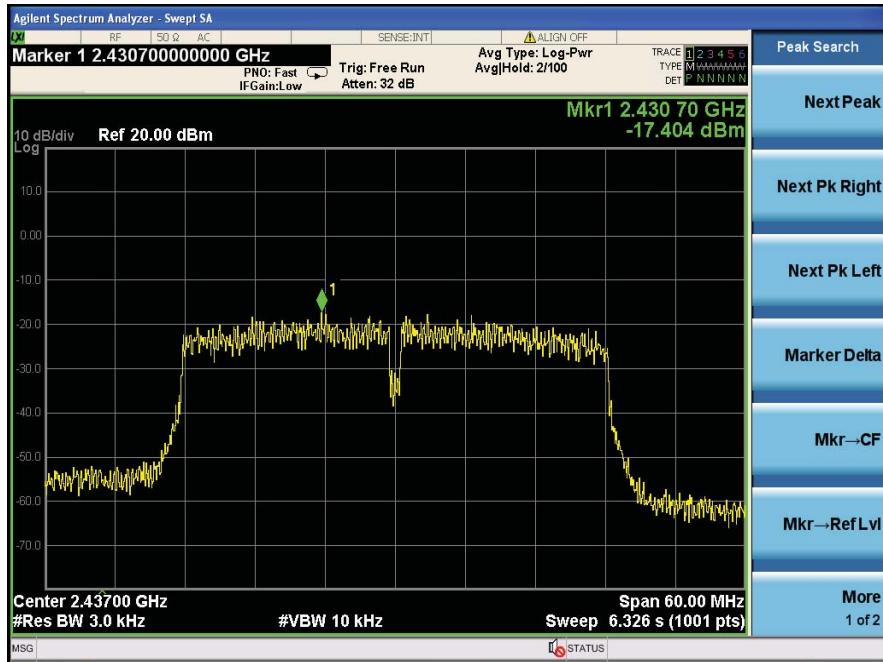


IEEE 802.11n HT40 :

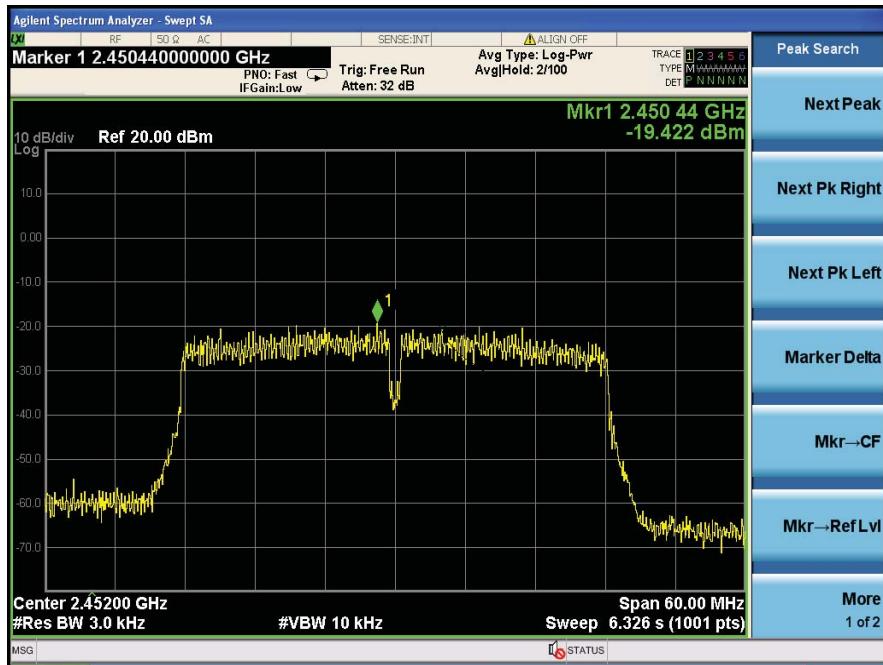
CH Low :



CH Mid:



CH Hig:



port 1 antenna

IEEE 802.11b :

CH Low :



CH Mid:

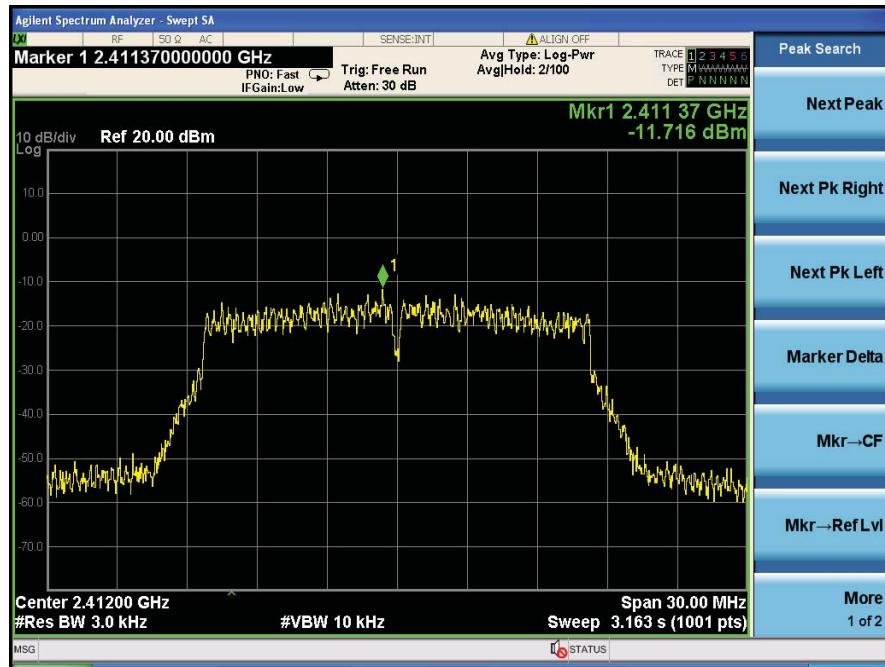


CH Hig:

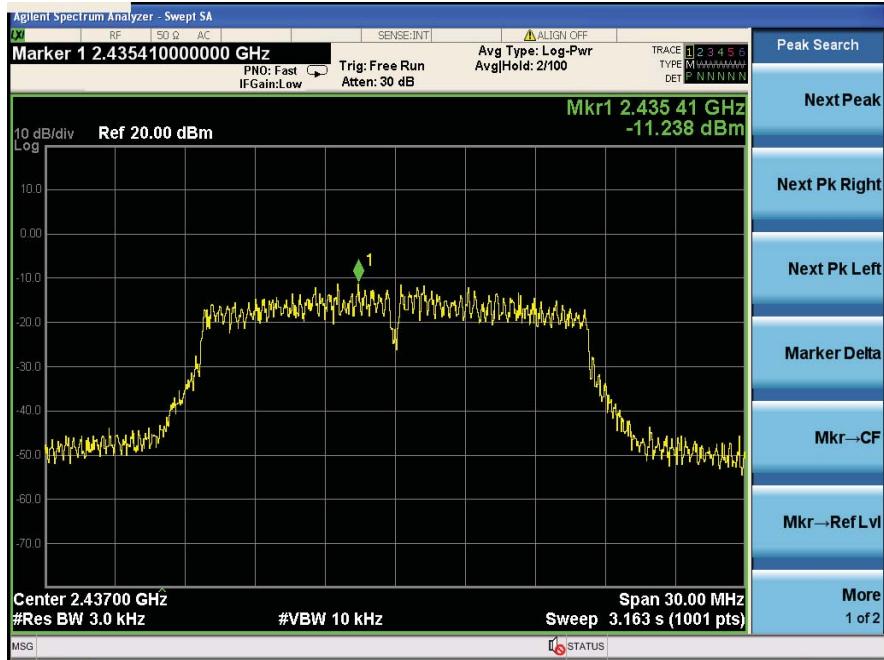


IEEE 802.11g :

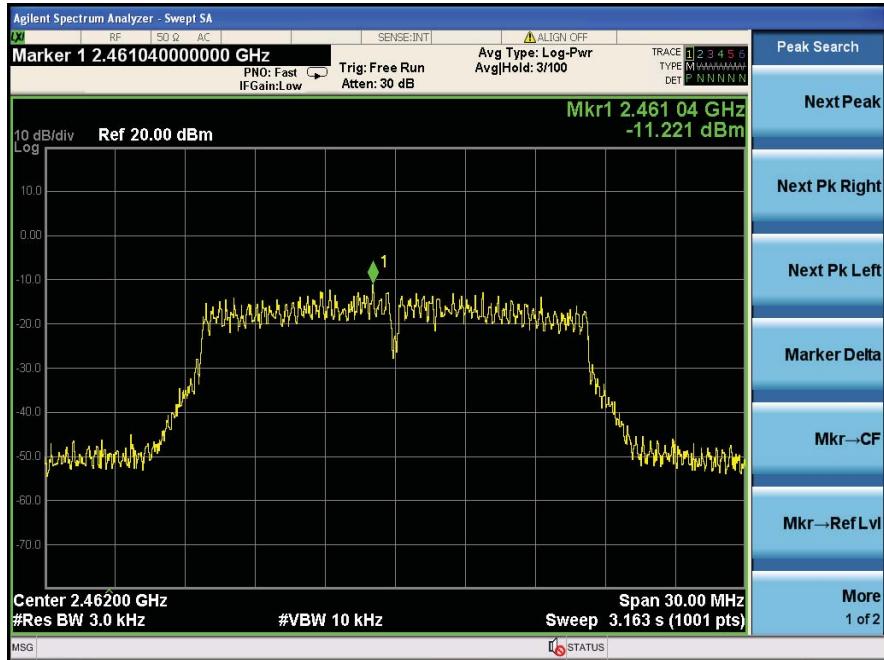
CH Low :



CH Mid:

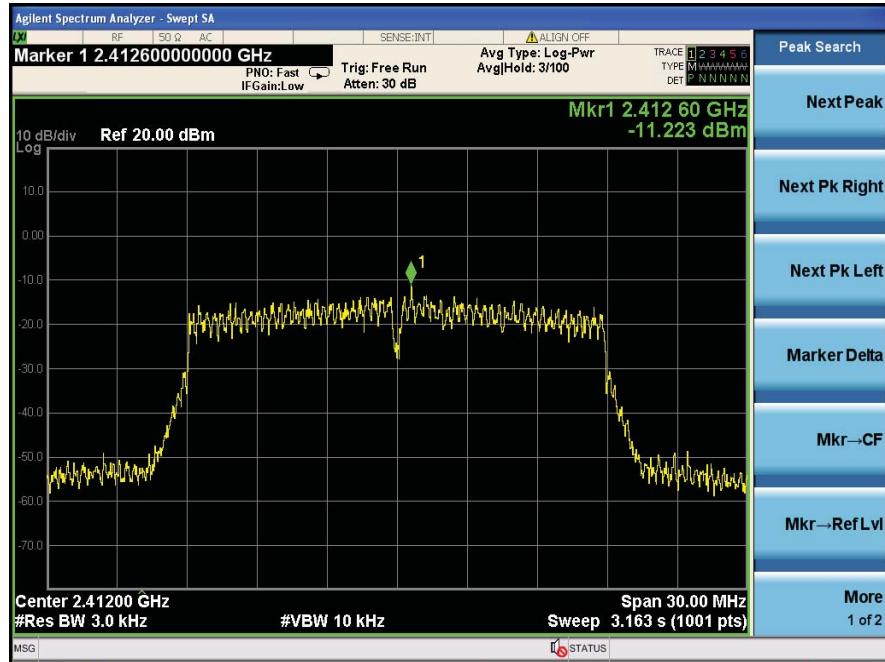


CH Hig:

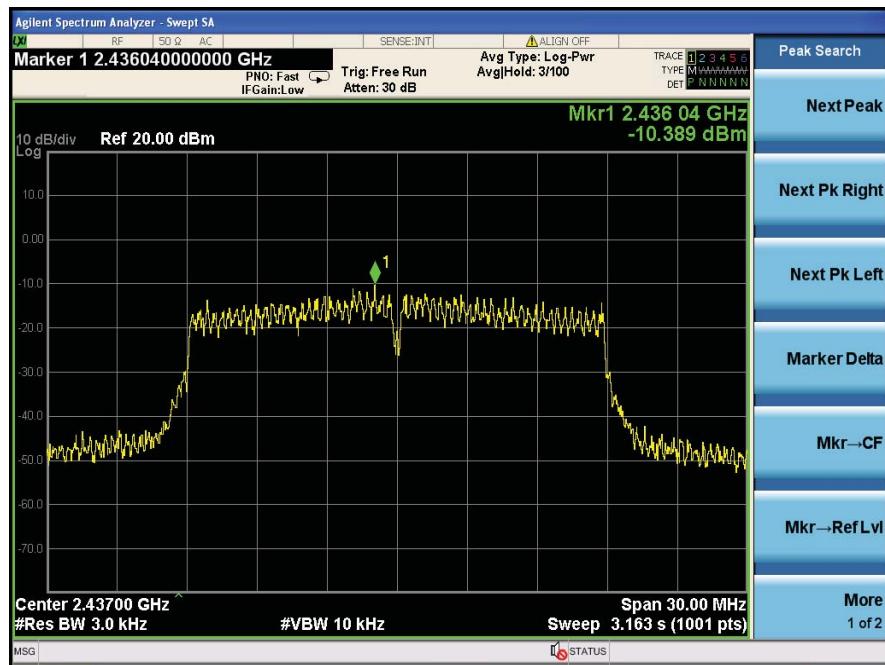


IEEE 802.11n HT20 :

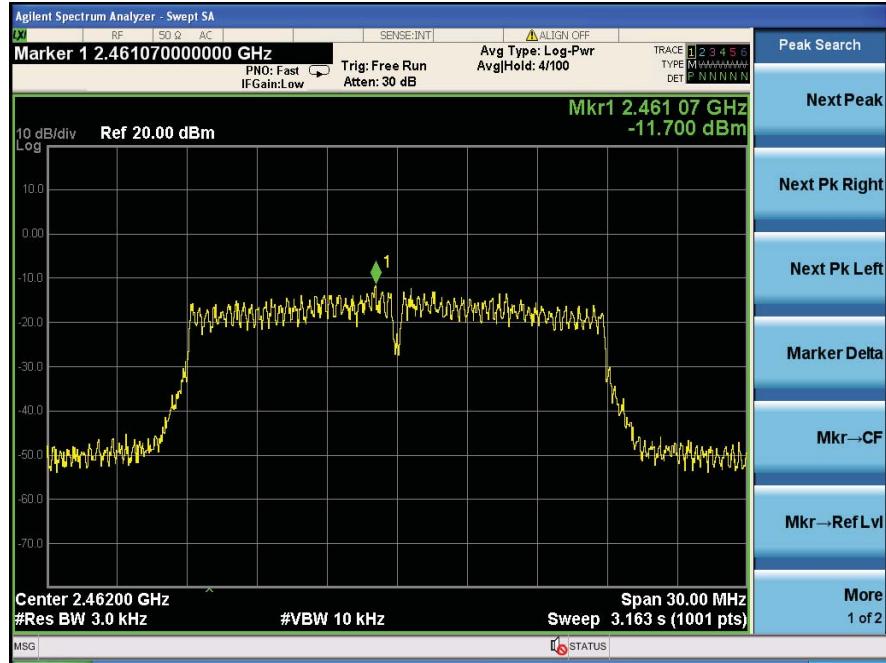
CH Low :



CH Mid:

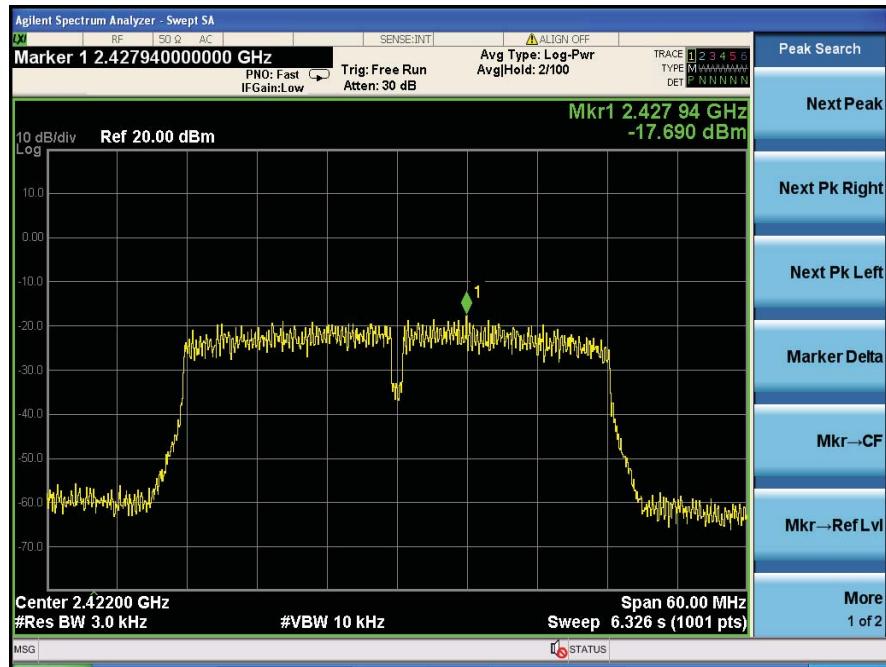


CH Hig:

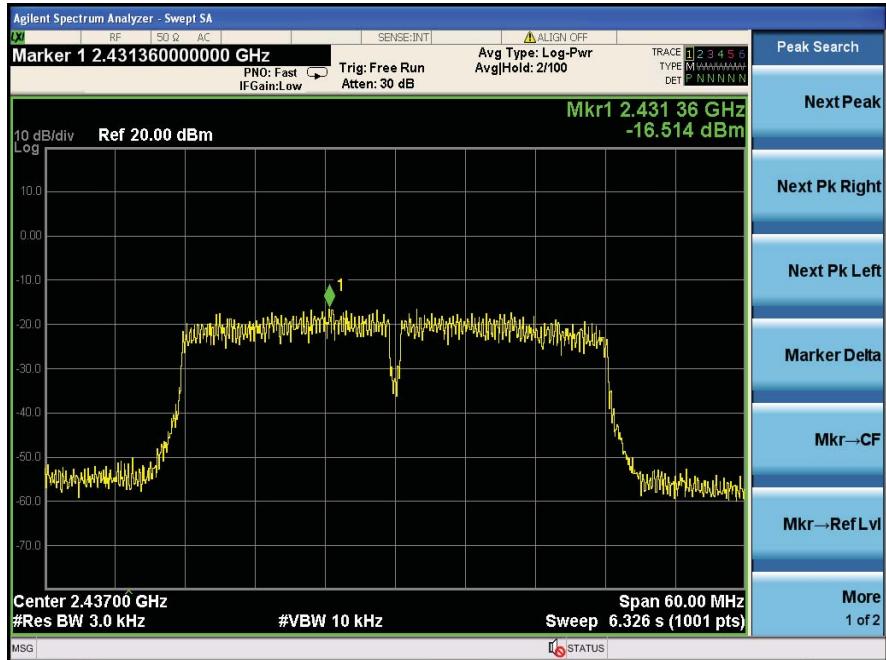


IEEE 802.11n HT40 :

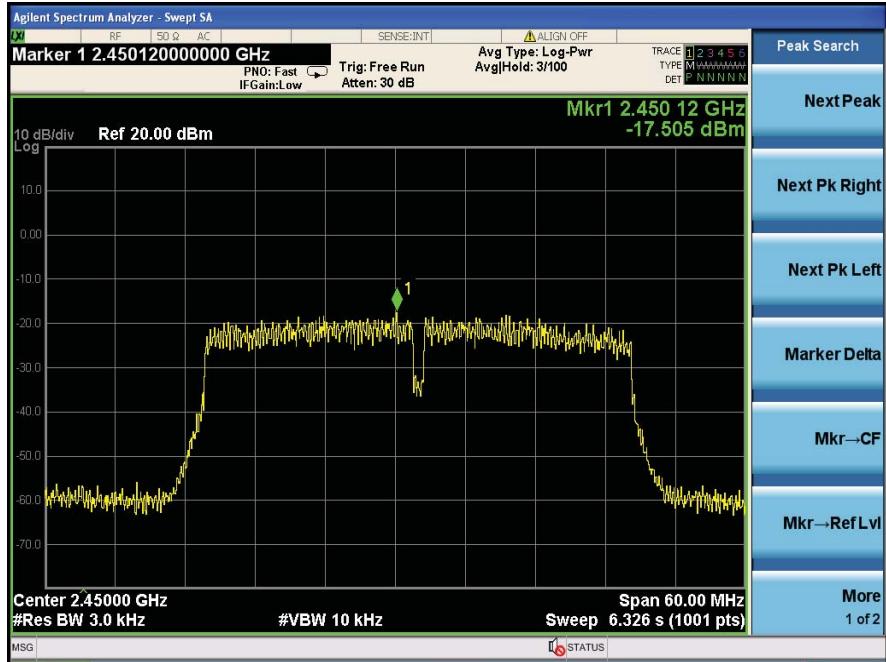
CH Low :



CH Mid:



CH Hig:



## 9 Bandwidth

### 9.1 Test limit

Please refer section RSS-247 & 15.247

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

### 9.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set RBW = 100KHz, VBW $\geq$ 300KHz, Sweep time set auto, PEAK Detector, detail see the test plot.

### 9.3 Test Setup



### 9.4 Test Results

PASS.

Antenna 0 and Antenna 1 port all have been tested ,

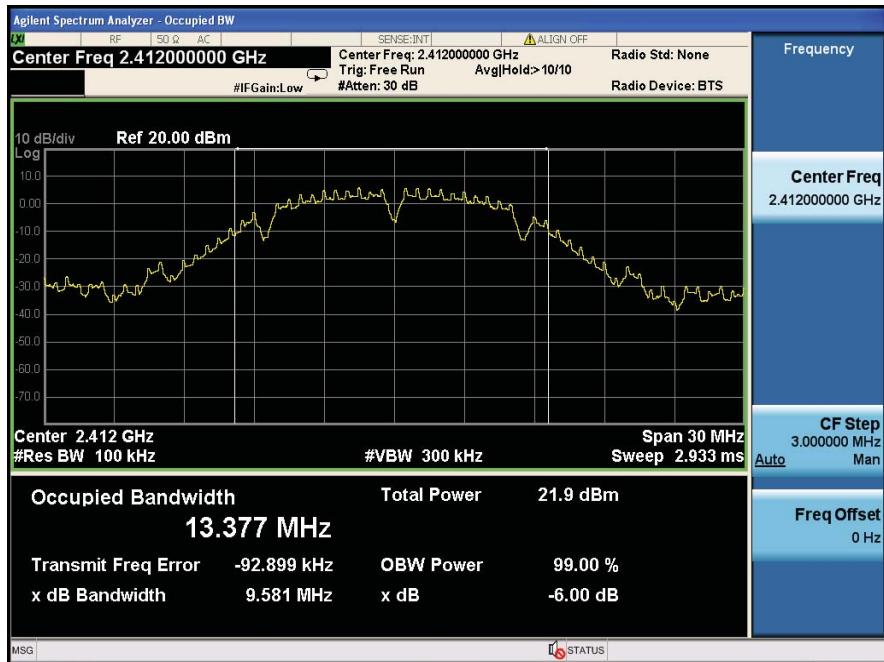
only worse case is reported

Detailed information please see the following page.

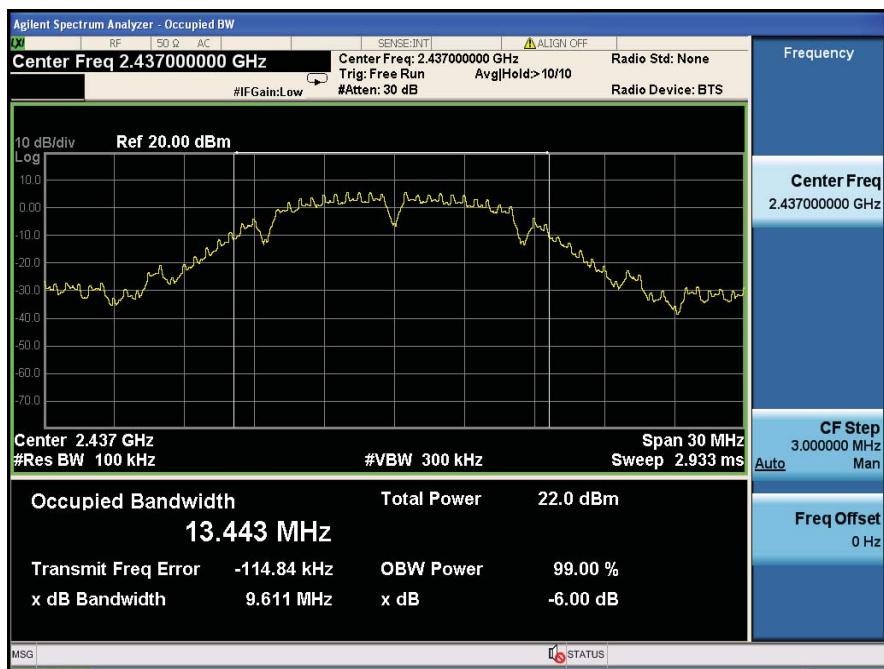
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b:					
Low	2412	9.58	/	0.5	PASS
Mid	2437	9.61	/	0.5	PASS
High	2462	10.08	/	0.5	PASS
IEEE 802.11g					
Low	2412	15.79	/	0.5	PASS
Mid	2437	15.16	/	0.5	PASS
High	2462	15.48	/	0.5	PASS
IEEE 802.11n/HT20:					
Low	2412	15.68	/	0.5	PASS
Mid	2437	17.31	/	0.5	PASS
High	2462	15.16	/	0.5	PASS
IEEE 802.11n/HT40:					
Low	2422	35.23	/	0.5	PASS
Mid	2437	35.23	/	0.5	PASS
High	2452	35.22	/	0.5	PASS

IEEE 802.11b:

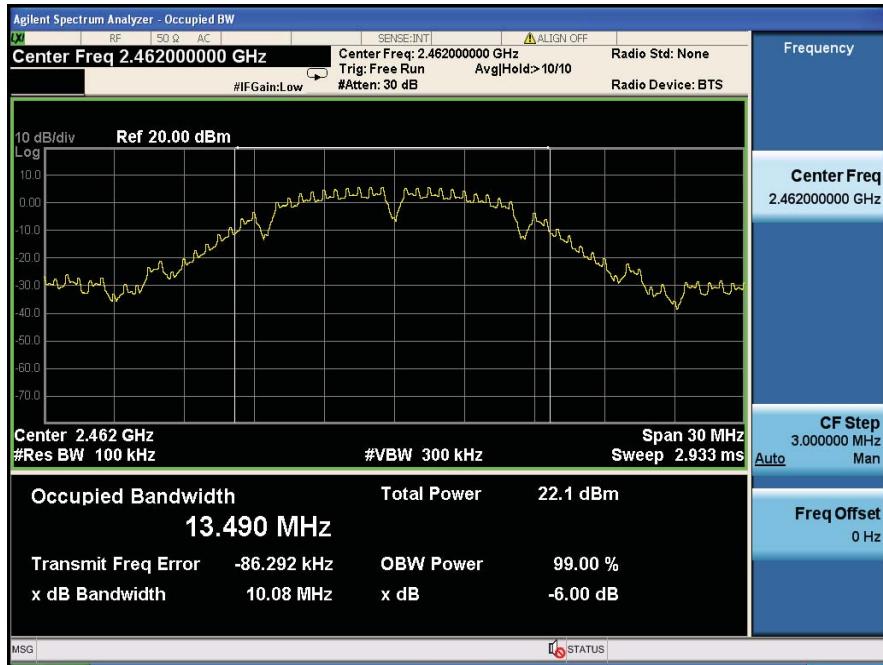
CH Low :



CH Mid :

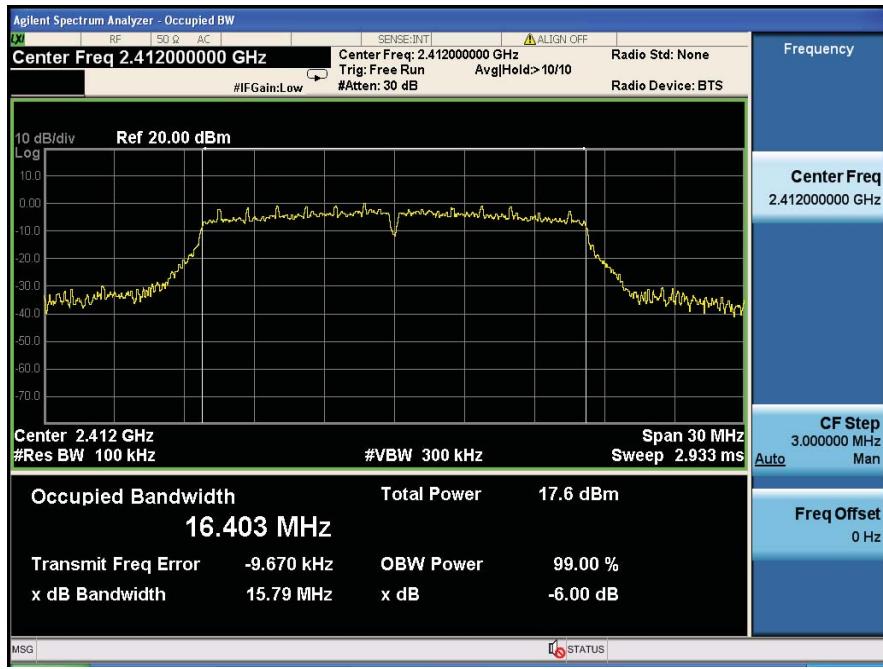


CH High :

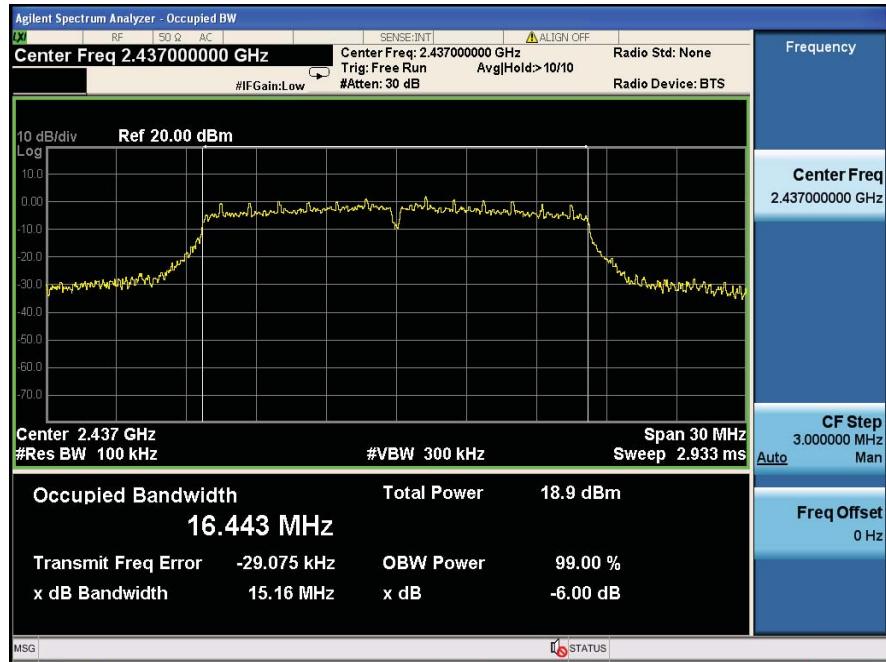


IEEE 802.11g:

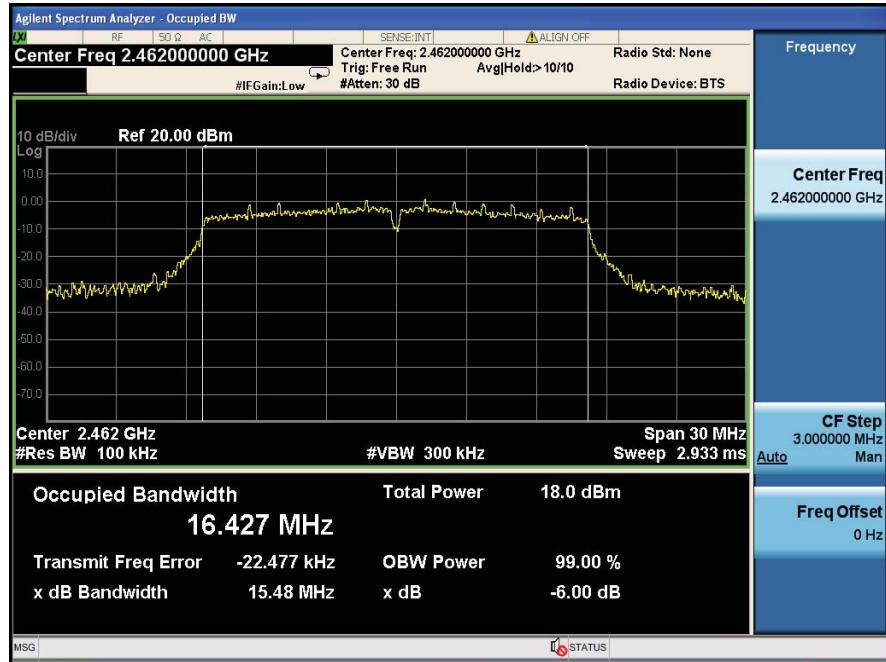
CH Low :



CH Mid:

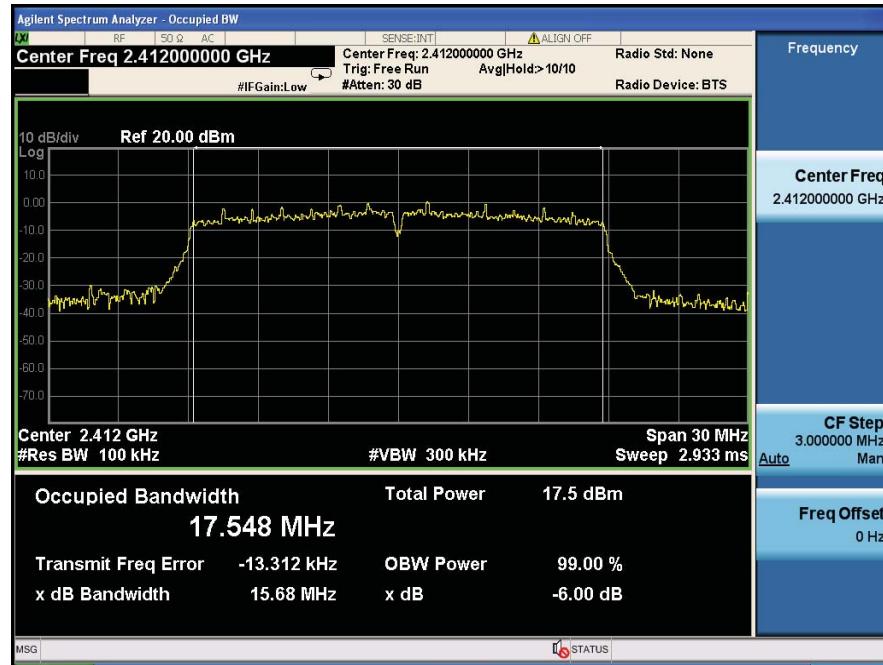


CH Hig:

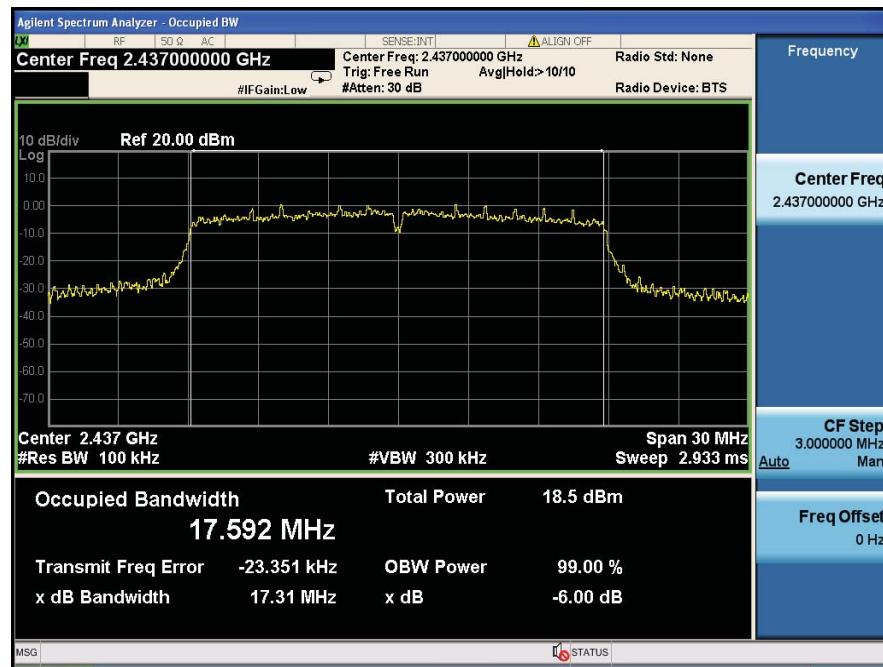


IEEE 802.11n HT20:

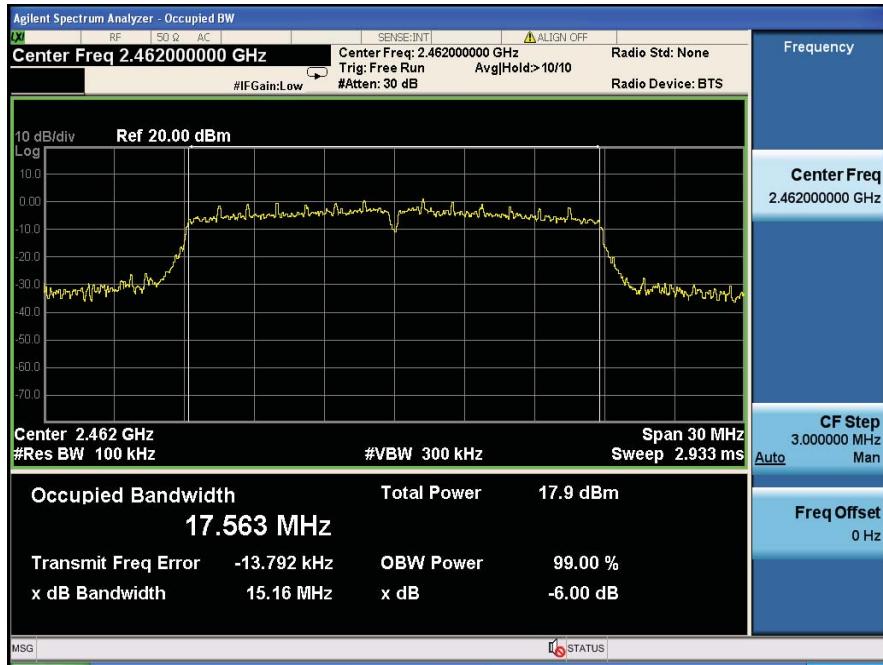
CH Low :



CH Mid :

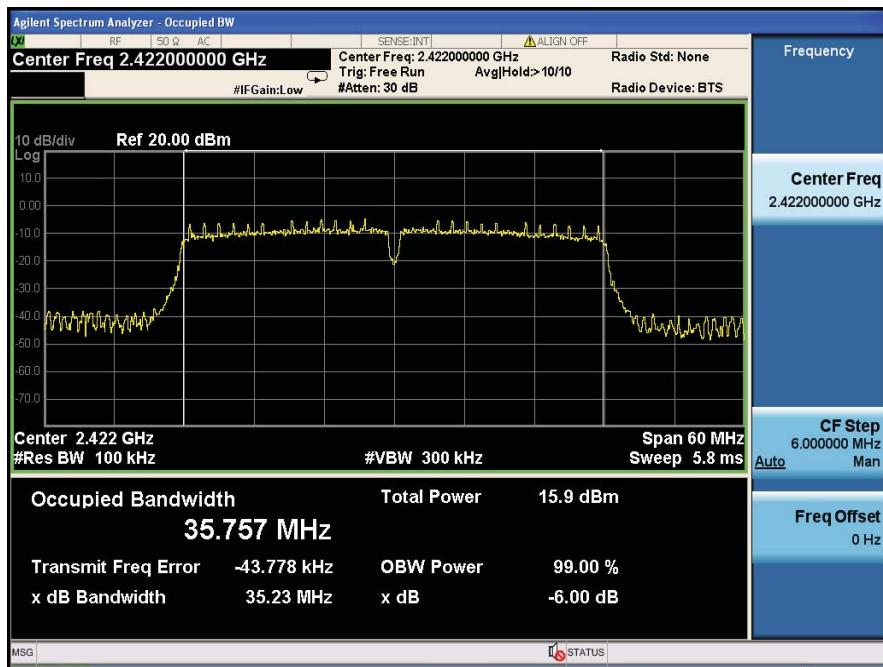


CH High :

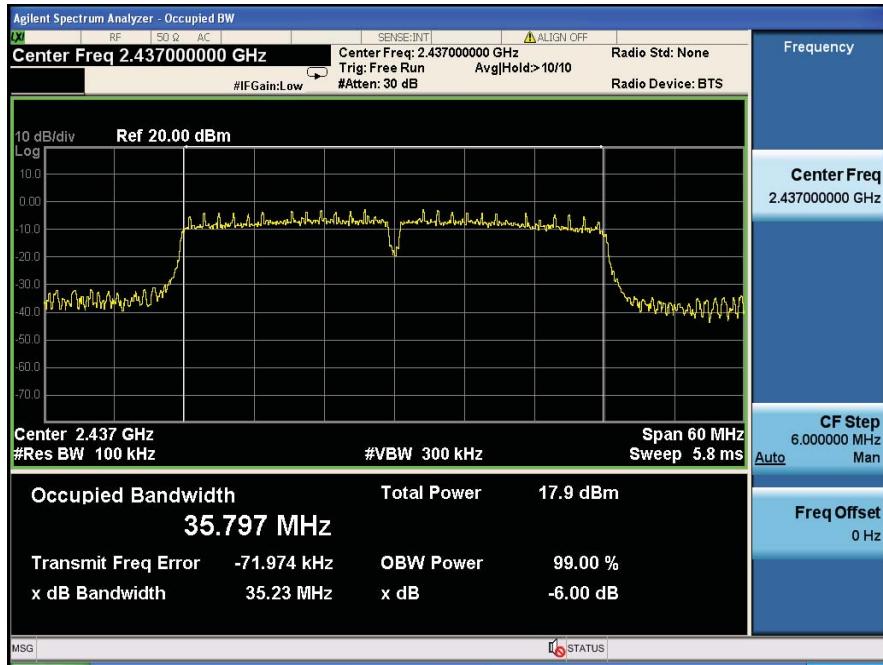


IEEE 802.11n/HT40:

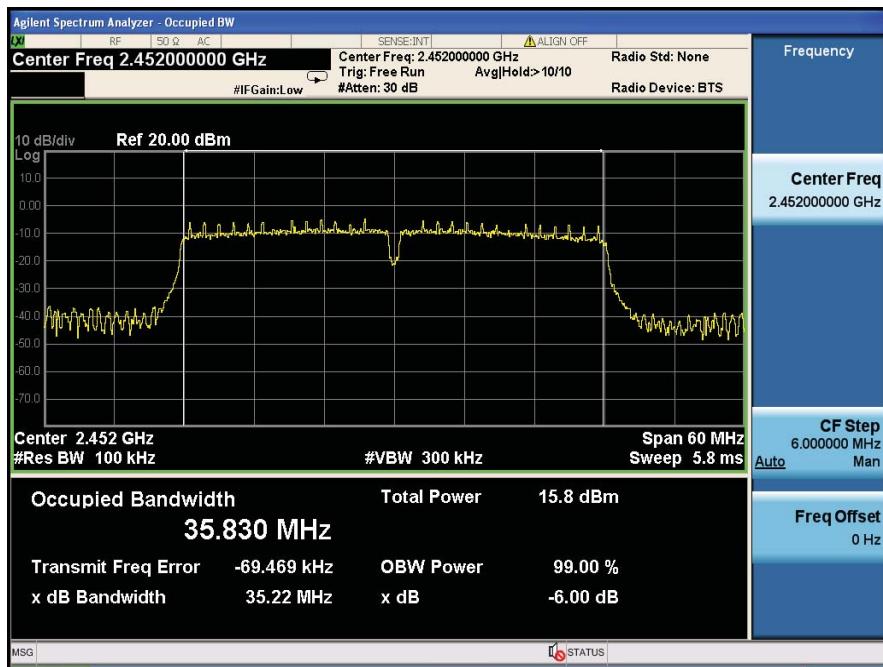
CH Low :



CH Mid:



CH High :



## 10 Band Edge Check

### 10.1 Test limit

Please refer section RSS-GEN&15.247.

### 10.2 Test Procedure

- 12.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 12.2.2 Check the spurious emissions out of band.
- 12.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz ,RMS detector for AV value.

### 10.3 Test Setup

Same as 5.2.2.

### 10.4 Test Result

PASS.

Detailed information please see the following page.

Radiated Method:  
802.11b ant1



802.11g ant1



## 802.11b ant2



802.11g ant2



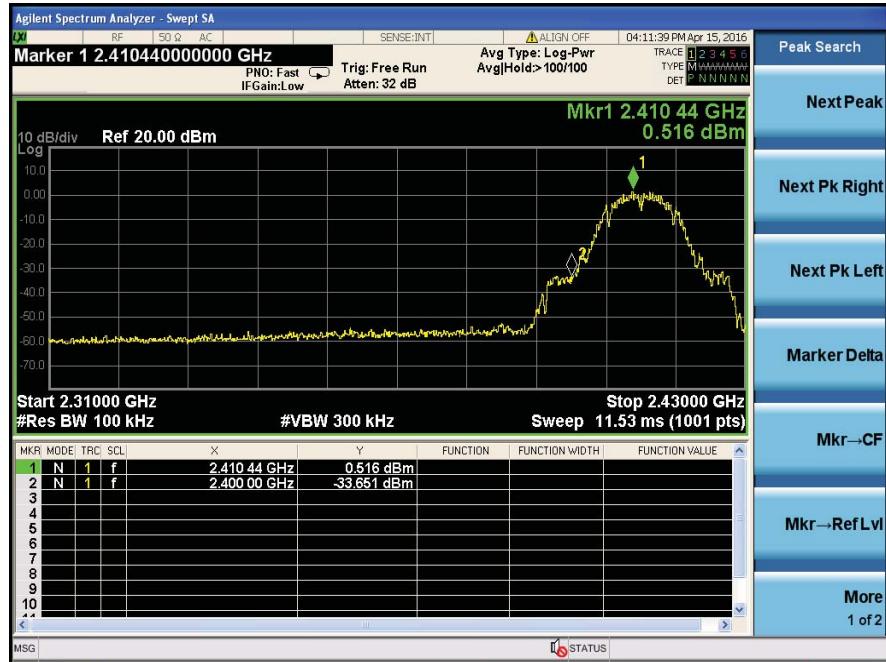
802.11n20



802.11n40

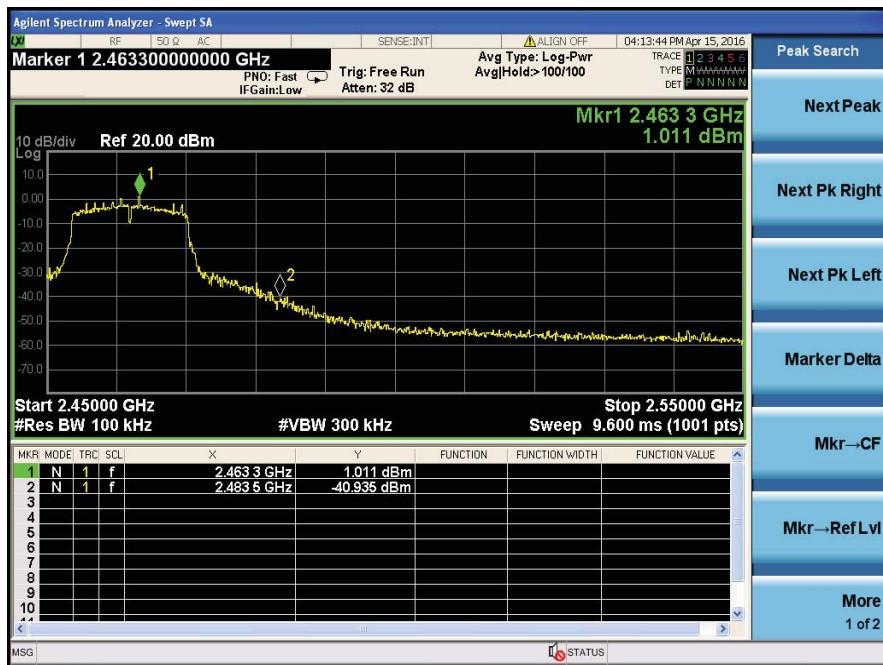
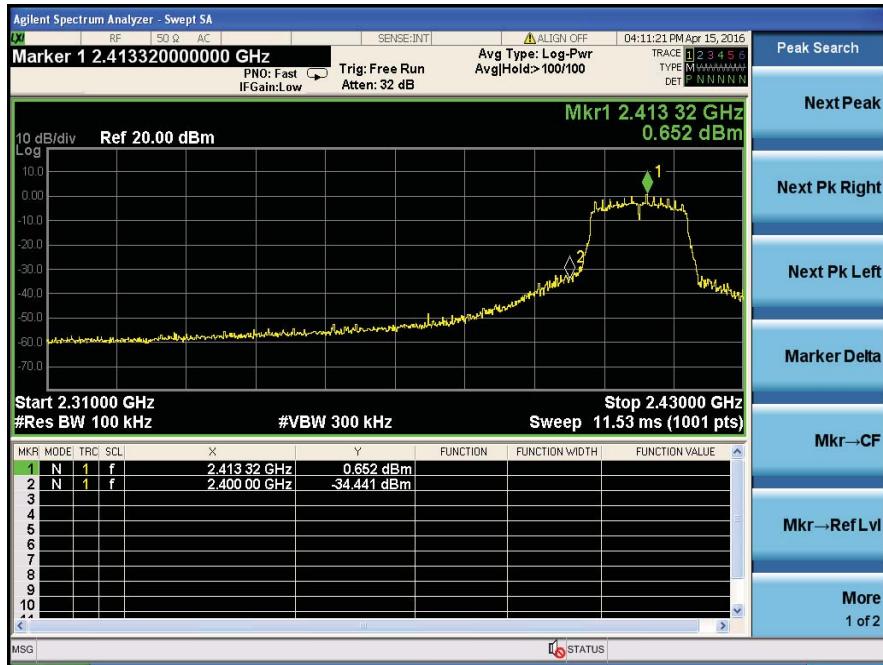


Conducted Method:  
802.11b



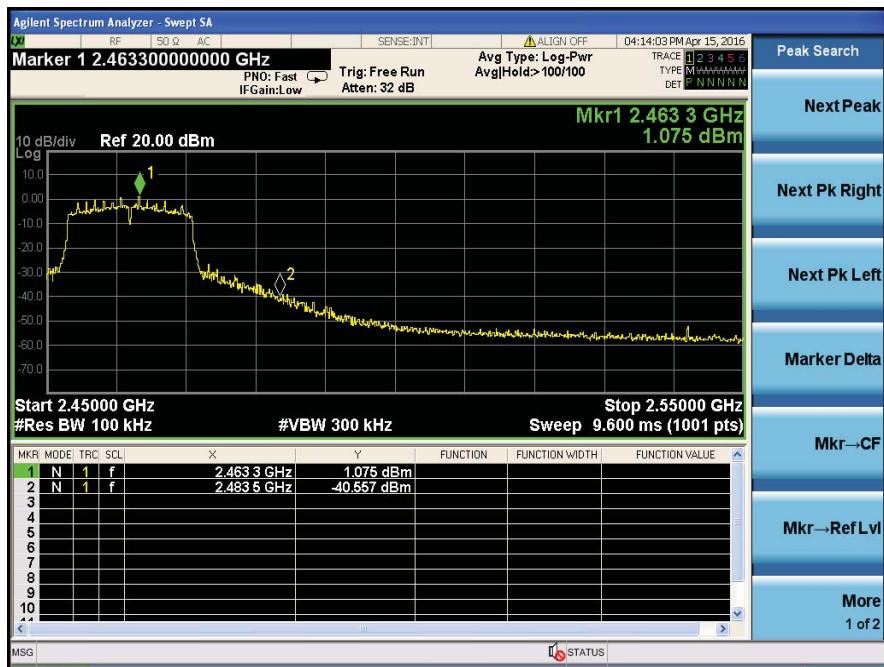
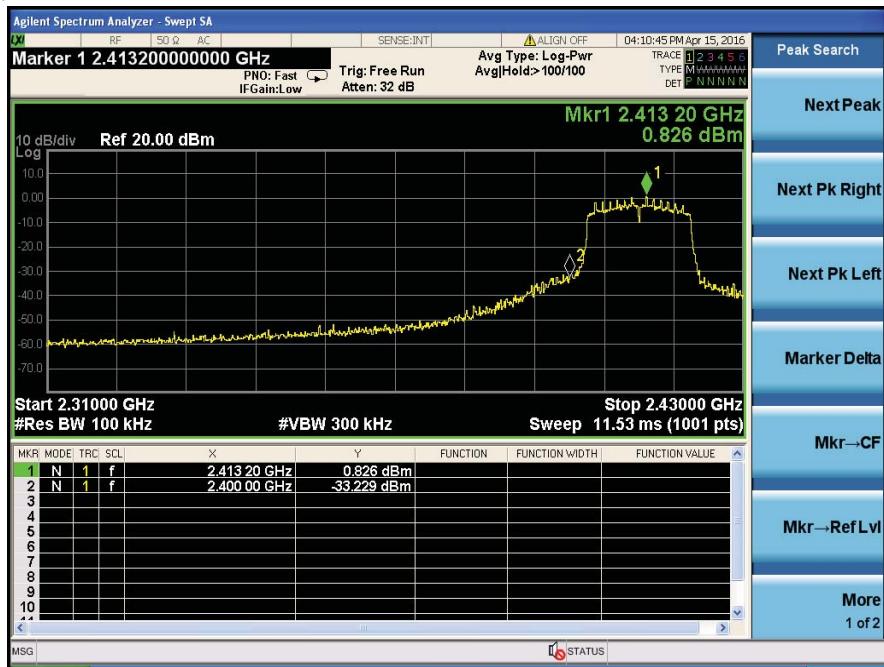
Antenna 0 and Antenna 1 port all have been tested , only worse case is reported

802.11g



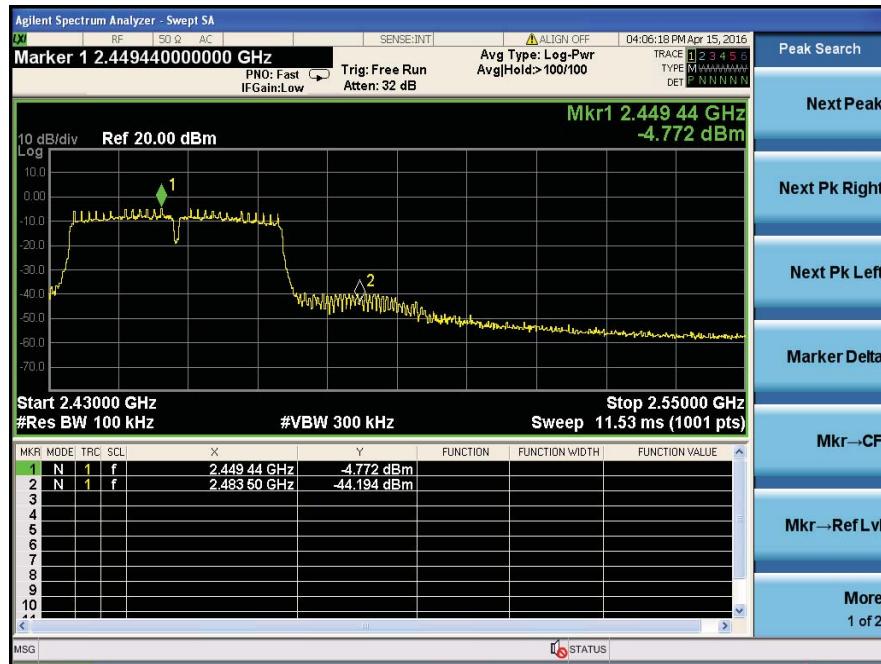
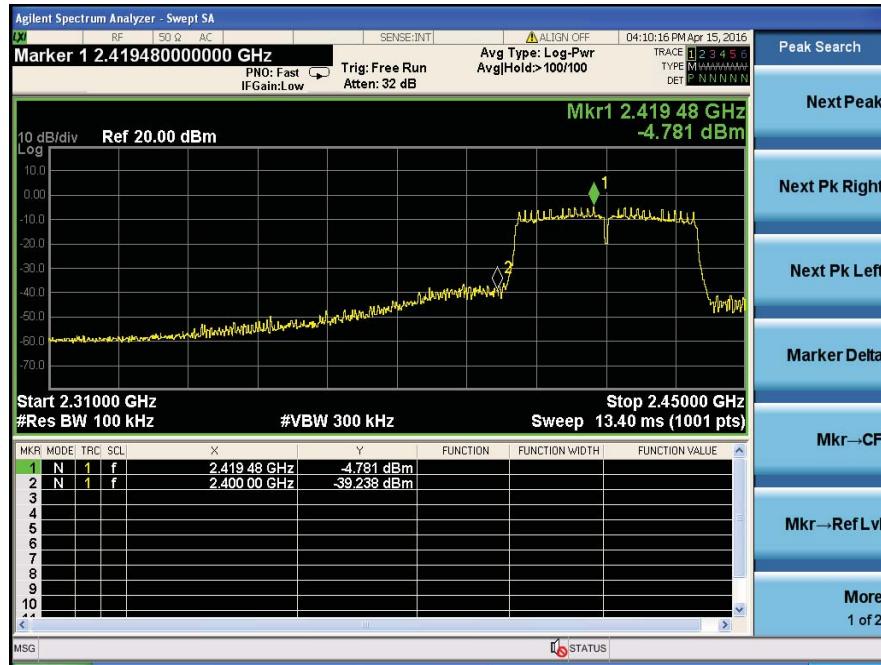
Antenna 0 and Antenna 1 port all have been tested , only worse case is reported

802.11n HT20



Antenna 0 and Antenna 1 port all have been tested , only worse case is reported

802.11n HT40



Antenna 0 and Antenna 1 port all have been tested , only worse case is reported

## 11 Antenna Requirement

### 11.1 Standard Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 11.2 Antenna Connected Construction

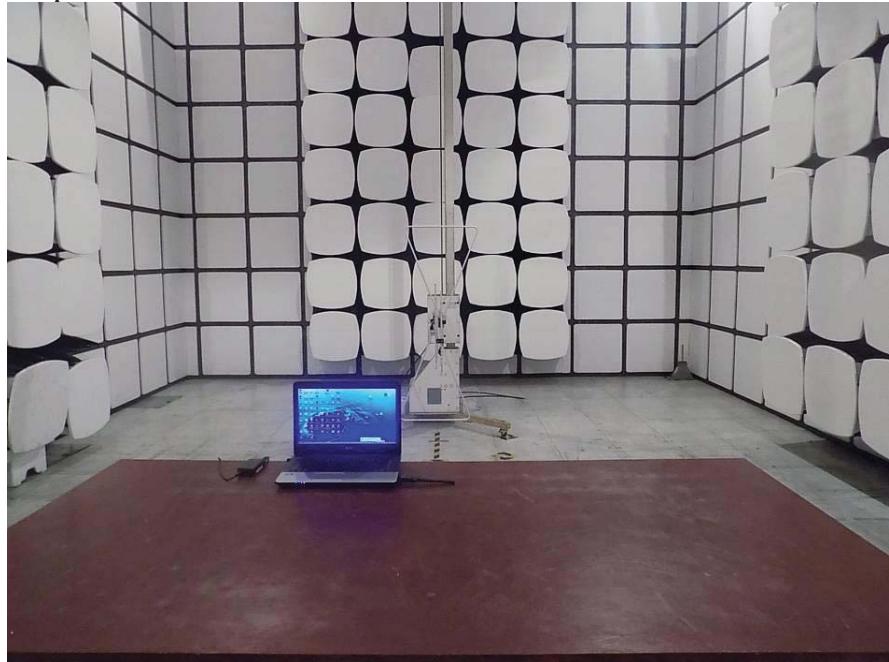
The antenna connector is unique antenna and no consideration of replacement.  
Please see EUT photo for details.

### 11.3 Result

The EUT antenna comply with the standard requirement.

## 12 Photographs of Setup

### 12.1 Photo of Spurious Emission



## 12.2 Photo of Power line conducted emission

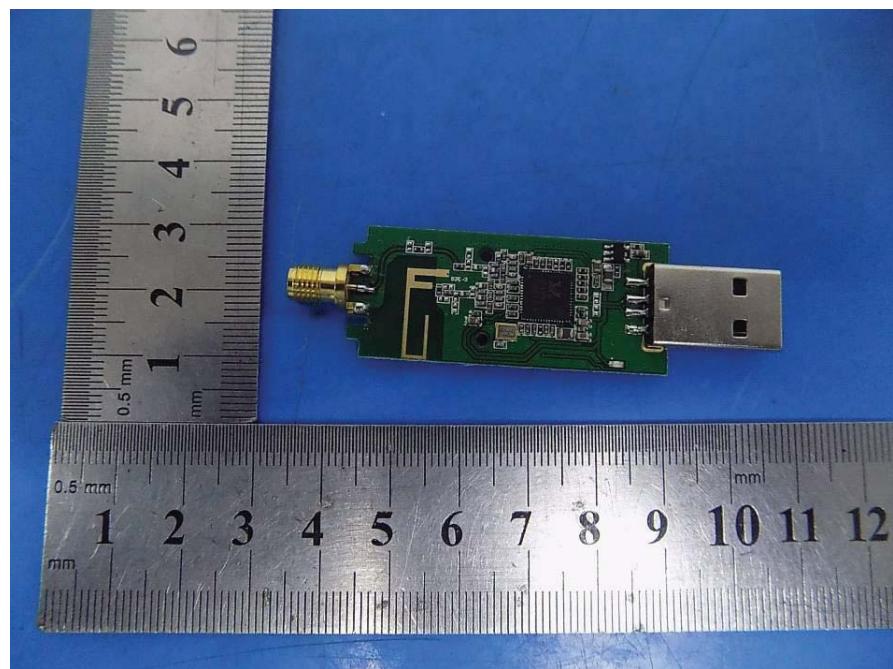


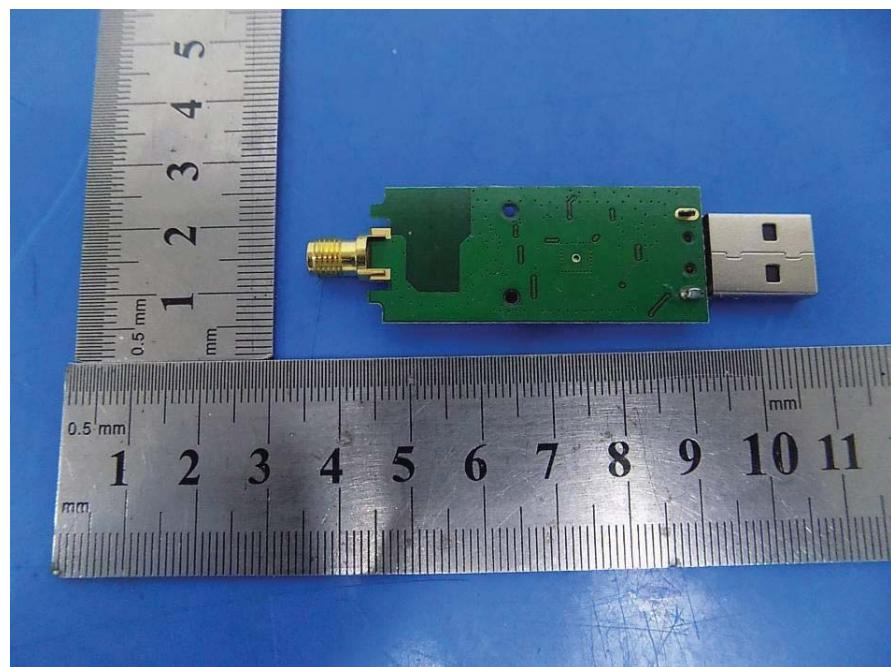
## 13 Photographs of EUT











-----END OF THE REPORT-----