

# RF TEST REPORT



Report No.: 16071468-FCC-R3

Supersede Report No.: N/A

Applicant	Verykool USA Inc	
Product Name	Mobile Phone	
Model No.	s5035	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2016, ANSI C63.10: 2013	
Test Date	December 23, 2016 to January 09, 2017	
Issue Date	January 10, 2017	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification		<input checked="" type="checkbox"/>
Equipment did not comply with the specification		<input type="checkbox"/>
Loren Luo	David Huang	
Loren Luo Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



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### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
16071468-FCC-R3	NONE	Original	January 10, 2017

## 2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, California 92122 United States
Manufacturer	HUAWO TECHNOLOGY LIMITED
Manufacturer Add	3 floor west, B building, New world shopping plaza,Gushu 2nd road, Xixiang street, Baoan District, Shenzhen , China

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

#### **4. Equipment under Test (EUT) Information**

Description of EUT: Mobile Phone

Main Model: s5035

Serial Model: N/A

Date EUT received: December 22, 2016

Test Date(s): December 23, 2016 to January 09, 2017

Equipment Category : DTS

Antenna Gain:  
 GSM850: -0.6dBi  
 PCS1900: -0.9dBi  
 UMTS-FDD Band V: -0.6dBi  
 UMTS-FDD Band IV: -1.2dBi  
 UMTS-FDD Band II: -1.1dBi  
 WIFI: -1.2dBi  
 Bluetooth/BLE:-1.2dBi  
 GPS: -1.1dBi

Antenna Type: PIFA antenna

Type of Modulation:  
 GSM / GPRS: GMSK  
 EGPRS: GMSK  
 UMTS-FDD: QPSK  
 802.11b/g/n: DSSS, OFDM  
 Bluetooth: GFSK, π /4DQPSK, 8DPSK  
 BLE: GFSK  
 GPS:BPSK

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GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz  
 PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz  
 UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz  
 UMTS-FDD Band IV TX: 1712.4 ~ 1752.6 MHz;  
 RX : 2112.4 ~ 2152.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;  
 RX: 1932.4 ~ 1987.6 MHz  
 WIFI: 802.11b/g/n(20M): 2412-2462 MHz  
 WIFI: 802.11n(40M): 2422-2452 MHz  
 Bluetooth& BLE: 2402-2480 MHz  
 GPS: 1575.42 MHz

Max. Output Power:  
 802.11b: 8.68dBm  
 802.11g: 8.68dBm  
 802.11n(20M): 8.61dBm  
 802.11n(40M): 8.67dBm

Number of Channels:  
 GSM 850: 124CH  
 PCS1900: 299CH  
 UMTS-FDD Band V: 102CH  
 UMTS-FDD Band IV: 202CH  
 UMTS-FDD Band II: 277CH  
 WIFI : 802.11b/g/n(20M): 11CH  
 WIFI : 802.11n(40M): 7CH  
 Bluetooth: 79CH  
 BLE: 40CH  
 GPS: 1CH

Port: USB Port, Earphone Port

Adapter:  
 Model: QU050100  
 Input: AC100-240V~50/60Hz, 0.2A  
 Output: DC 5.0V, 1000mA  
 Input Power:  
 Battery:  
 Model: 316083  
 Spec: 3.8V, 2050mAh, 7.79Wh  
 Limited charger voltage: 4.35V

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Trade Name : verykool

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: WA6S5035

## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB&20 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands	Compliance

### Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

## **6. Measurements, Examination And Derived Results**

### **6.1 Antenna Requirement**

#### **Applicable Standard**

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. 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Antenna Connector Construction**

The EUT has 2 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI/GPS, the gain is -1.2dBi for Bluetooth/BLE, the gain is -1.2dBi for WIFI, the gain is -1.1dBi for GPS.

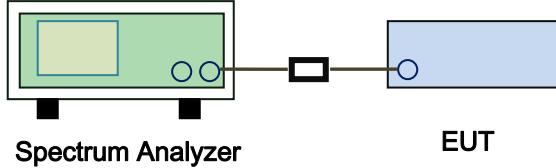
A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -0.6dBi for GSM850, -0.9dBi for PCS1900, -0.6dBi for UMTS-FDD Band V, -1.2dBi for UMTS-FDD Band IV, -1.1dBi for UMTS-FDD Band II.

**The antenna meets up with the ANTENNA REQUIREMENT.**

**Result:** Compliance.

## 6.2 DTS (6 dB&20 dB) Channel Bandwidth

Temperature	22°C
Relative Humidity	51%
Atmospheric Pressure	1001mbar
Test date :	December 26, 2016
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§ 15.247(a)(2)	a)	6dB BW $\geq$ 500kHz; 20dB BW $\geq$ 500kHz;	<input checked="" type="checkbox"/>
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	<input checked="" type="checkbox"/>
Test Setup		 <p style="text-align: center;">Spectrum Analyzer                                  EUT</p>	
Test Procedure		<p>558074 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth</p> <p><u>6dB bandwidth</u></p> <ul style="list-style-type: none"> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the video bandwidth (VBW) <math>\geq</math> 3 <math>\times</math> RBW.</li> <li>c) Detector = Peak.</li> <li>d) Trace mode = max hold.</li> <li>e) Sweep = auto couple.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</li> </ul> <p><u>20dB bandwidth</u></p> <p>C63.10 Occupied Bandwidth (OBW=20dB bandwidth)</p> <ol style="list-style-type: none"> <li>1. Set RBW = 1%-5% OBW.</li> <li>2. Set the video bandwidth (VBW) <math>\geq</math> 3 x RBW.</li> <li>3. Set the span range between 2 times and 5 times of the OBW.</li> <li>4. Sweep time=Auto, Detector=PK, Trace=Max hold.</li> <li>5. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-</li> </ol>	

	case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the 20 dB levels with respect to the reference level.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data  Yes  N/A

Test Plot  Yes (See below)  N/A

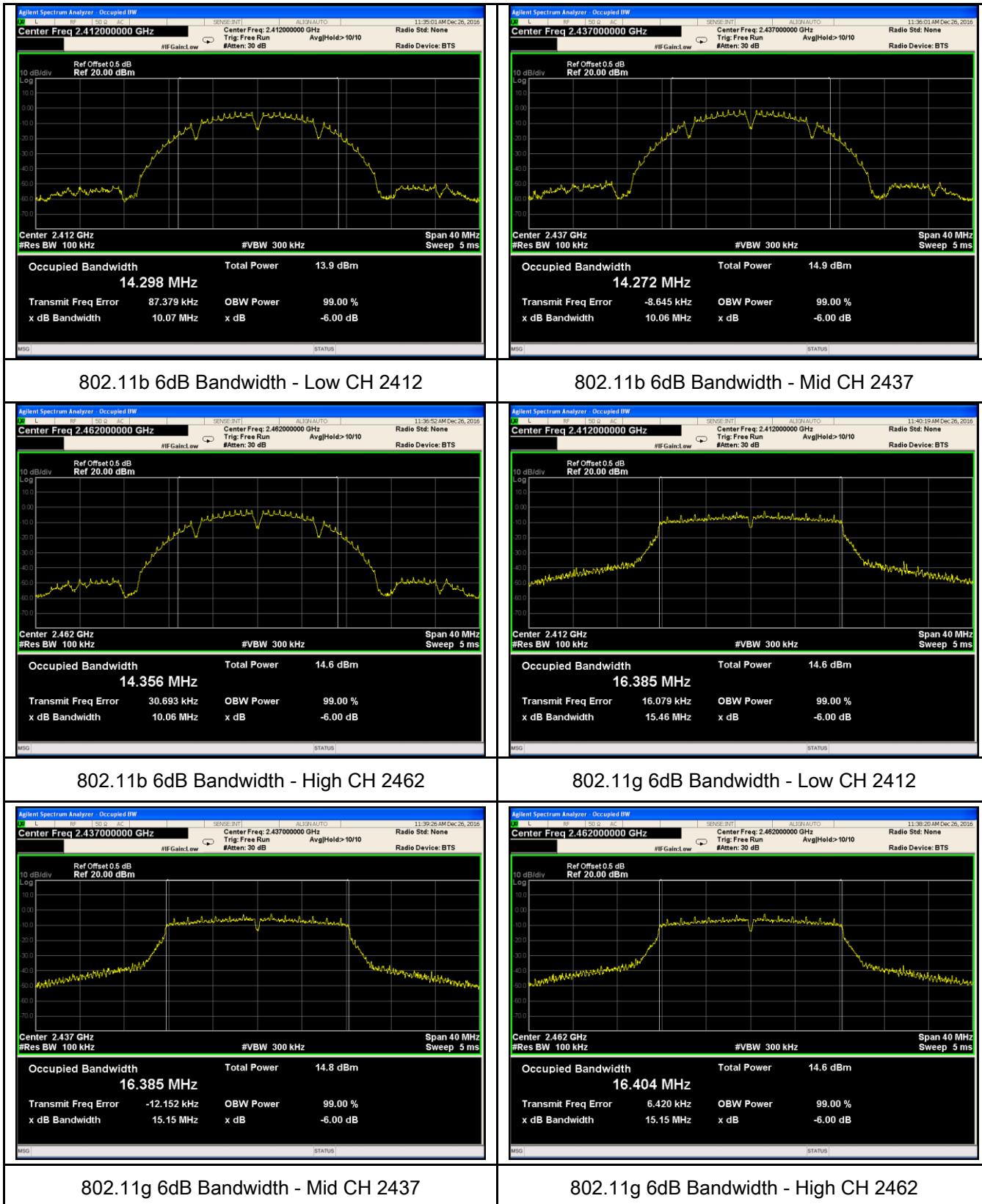
### Measurement result

Test mode	CH	Freq (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	10.07	16.31	$\geq 0.5$
	Mid	2437	10.06	16.31	$\geq 0.5$
	High	2462	10.06	16.34	$\geq 0.5$
802.11g	Low	2412	15.46	18.81	$\geq 0.5$
	Mid	2437	15.15	18.76	$\geq 0.5$
	High	2462	15.15	18.67	$\geq 0.5$
802.11n (20M)	Low	2412	15.69	19.20	$\geq 0.5$
	Mid	2437	15.12	19.20	$\geq 0.5$
	High	2462	15.15	19.21	$\geq 0.5$
802.11n (40M)	Low	2422	35.34	38.97	$\geq 0.5$
	Mid	2437	35.14	39.11	$\geq 0.5$
	High	2452	35.36	39.18	$\geq 0.5$

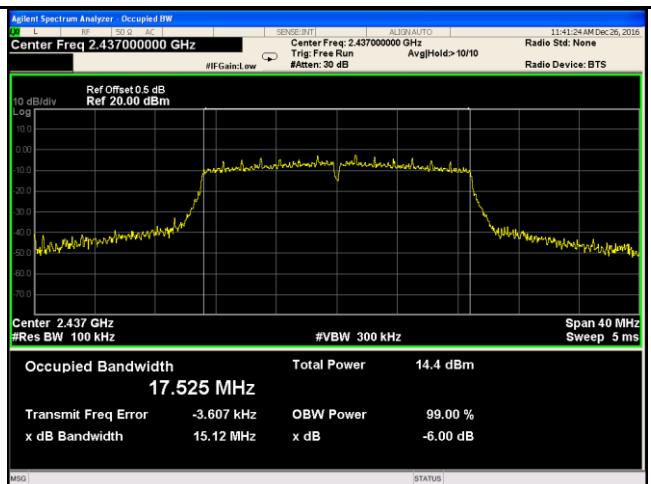
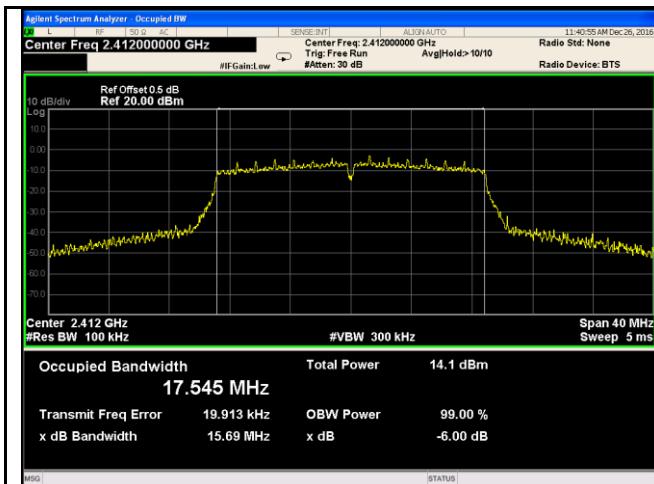
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## Test Plots

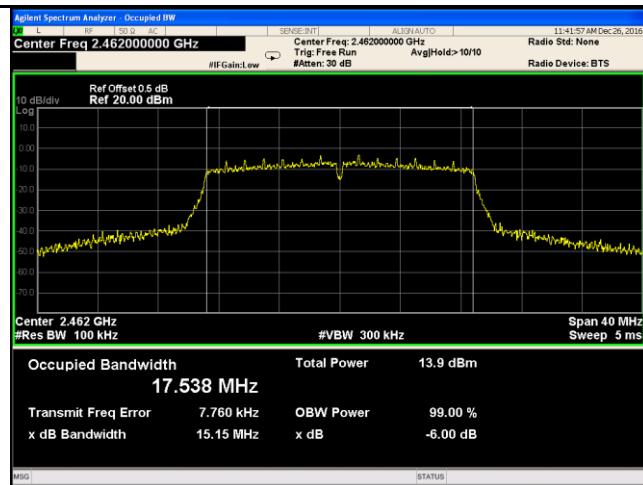
### 6dB Bandwidth measurement result



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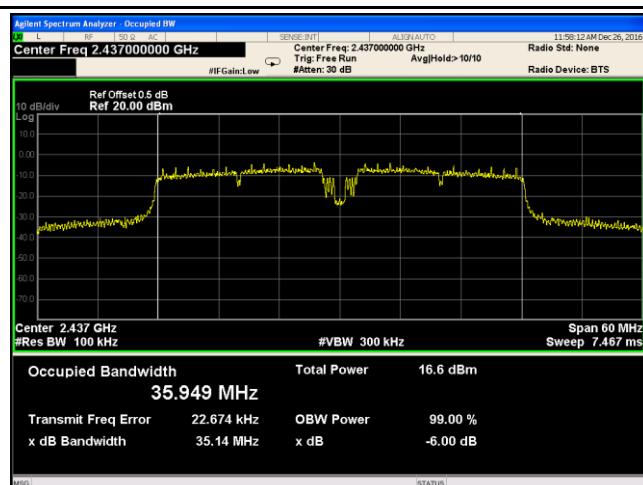
### 802.11n20 6dB Bandwidth - Low CH 2412



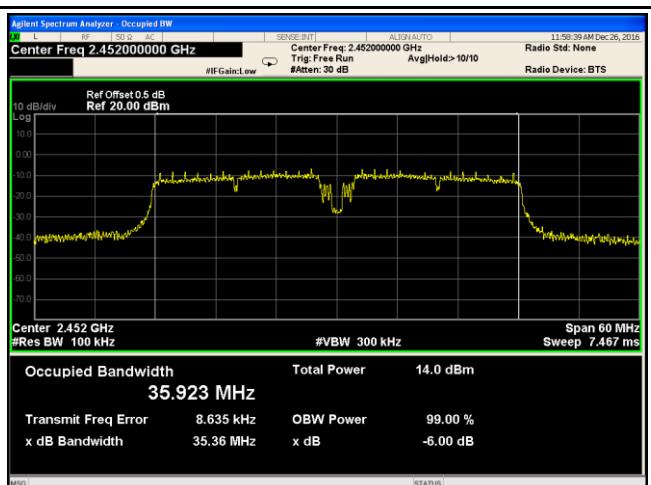
### 802.11n20 6dB Bandwidth - Mid CH 2437



### 802.11n20 6dB Bandwidth - High CH 2462



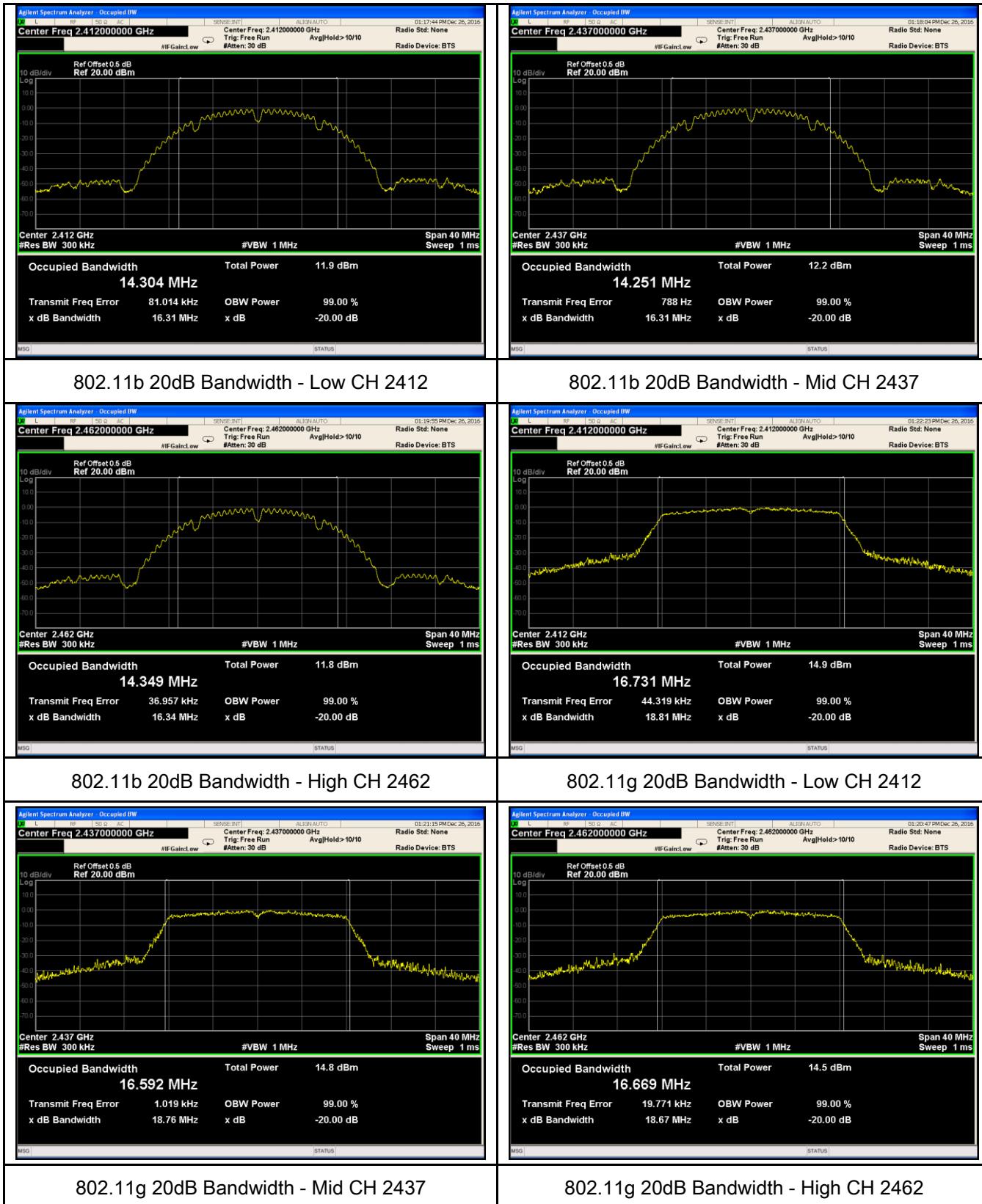
### 802.11n40 6dB Bandwidth - Low CH 2422



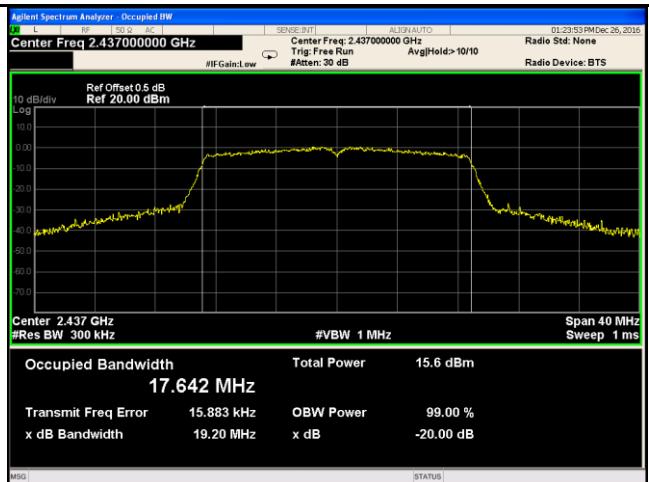
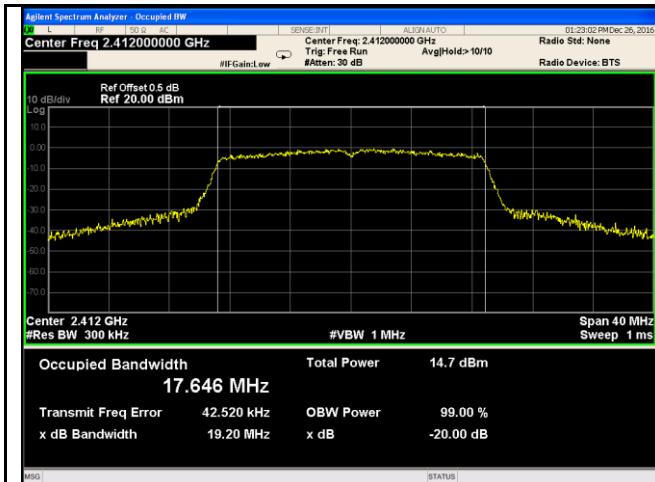
### 802.11n40 6dB Bandwidth - Mid CH 2437

### 802.11n40 6dB Bandwidth - High CH 2452

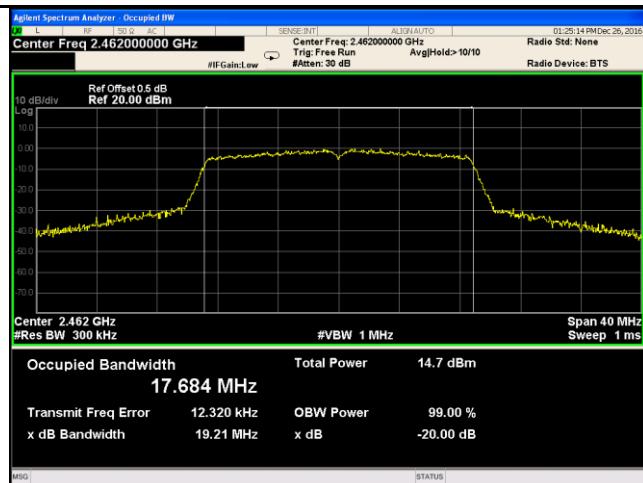
## 20 dB Bandwidth measurement result



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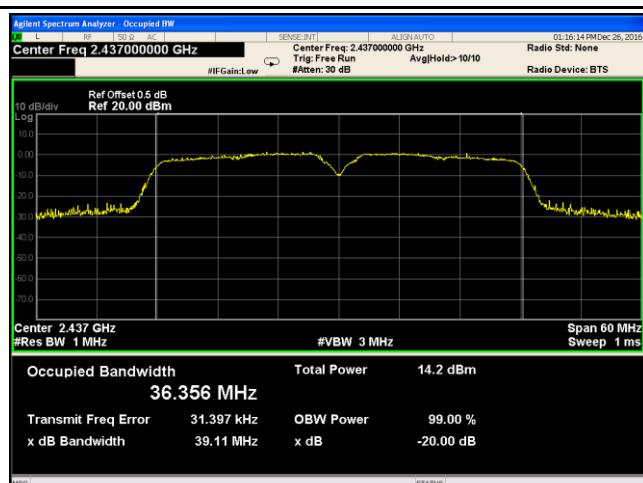
### 802.11n20 20dB Bandwidth - Low CH 2412



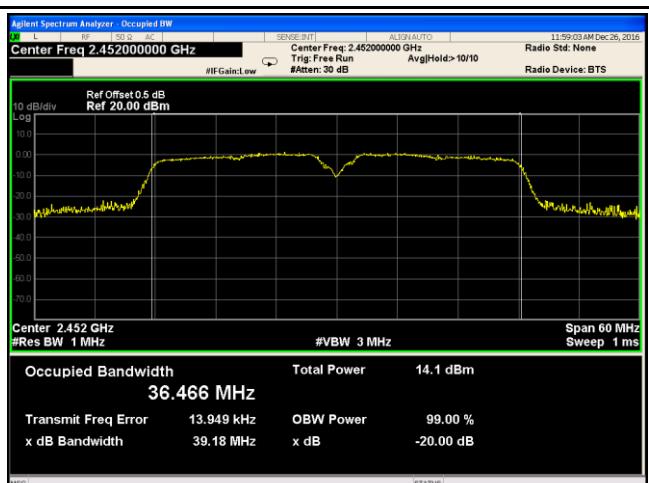
### 802.11n20 20dB Bandwidth - Mid CH 2437



### 802.11n20 20dB Bandwidth - High CH 2462



### 802.11n40 20dB Bandwidth - Low CH 2422



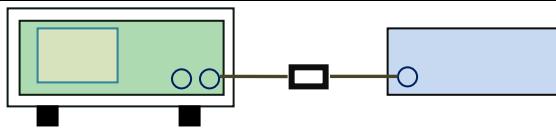
### 802.11n40 20dB Bandwidth - Mid CH 2437

### 802.11n40 20dB Bandwidth - High CH 2452

### 6.3 Maximum Output Power

Temperature	22°C
Relative Humidity	51%
Atmospheric Pressure	1001mbar
Test date :	December 26, 2016
Tested By :	Loren Luo

#### Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (3), RSS210 (A8.4)	a)	FHSS in 2400-2483.5MHz with $\geq$ 75 channels: $\leq$ 1 Watt	<input type="checkbox"/>
	b)	FHSS in 5725-5850MHz: $\leq$ 1 Watt	<input type="checkbox"/>
	c)	For all other FHSS in the 2400-2483.5MHz band: $\leq$ 0.125 Watt.	<input type="checkbox"/>
	d)	FHSS in 902-928MHz with $\geq$ 50 channels: $\leq$ 1 Watt	<input type="checkbox"/>
	e)	FHSS in 902-928MHz with $\geq$ 25 & $<$ 50 channels: $\leq$ 0.25 Watt	<input type="checkbox"/>
	f)	DTS in 902-928MHz, 2400-2483.5MHz: $\leq$ 1 Watt	<input checked="" type="checkbox"/>
Test Setup		 <b>Spectrum Analyzer</b> <b>EUT</b>	
Test Procedure		<p>558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method</p> <p>Maximum output power measurement procedure</p> <ul style="list-style-type: none"> <li>- a) Set span to at least 1.5 times the OBW.</li> <li>- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.</li> <li>- c) Set VBW <math>\geq</math> 3 x RBW.</li> <li>- d) Number of points in sweep <math>\geq</math> 2 <math>\times</math> span / RBW. (This gives bin-to-bin spacing <math>\leq</math> RBW/2, so that narrowband signals are not lost between frequency bins.)</li> <li>- e) Sweep time = auto.</li> <li>- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.</li> <li>- g) If transmit duty cycle <math>&lt;</math> 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum</li> </ul>	

	<p>power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle <math>\geq 98\%</math>, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to " free run" .</p> <ul style="list-style-type: none"> <li>- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.</li> <li>- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument' s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.</li> </ul>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data  Yes  N/A

Test Plot  Yes (See below)  N/A

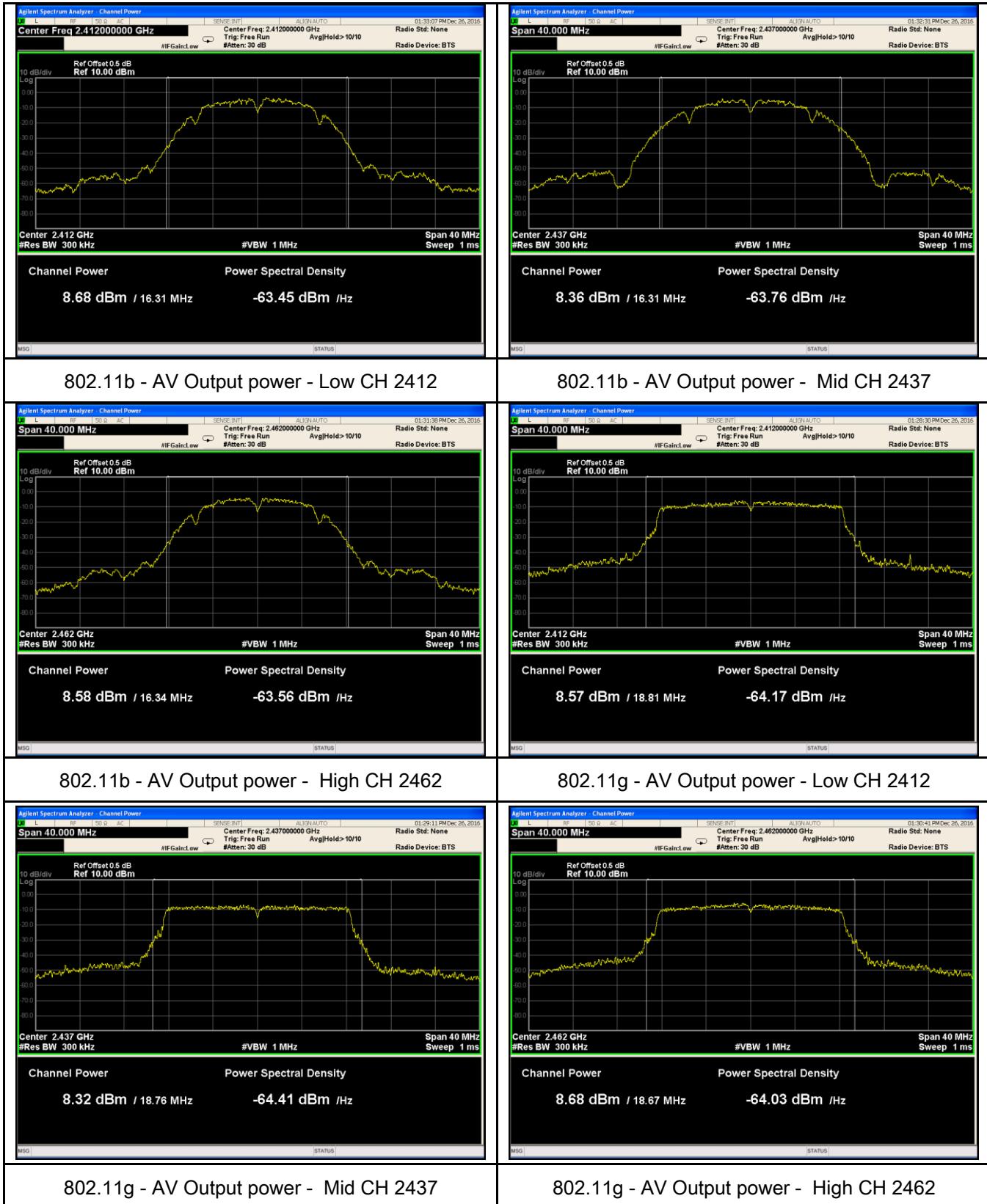
#### Output Power measurement result

Type	Test mode	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output power	802.11b	Low	2412	<b>8.68</b>	30	Pass
		Mid	2437	8.36	30	Pass
		High	2462	8.58	30	Pass
	802.11g	Low	2412	8.57	30	Pass
		Mid	2437	8.32	30	Pass
		High	2462	<b>8.68</b>	30	Pass
	802.11n (20M)	Low	2412	8.51	30	Pass
		Mid	2437	8.31	30	Pass
		High	2462	<b>8.61</b>	30	Pass
	802.11n (40M)	Low	2422	8.49	30	Pass
		Mid	2437	<b>8.67</b>	30	Pass
		High	2452	8.31	30	Pass

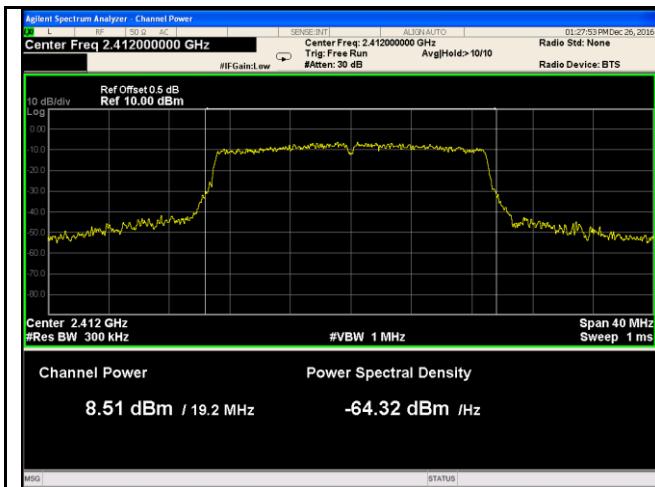
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## Test Plots

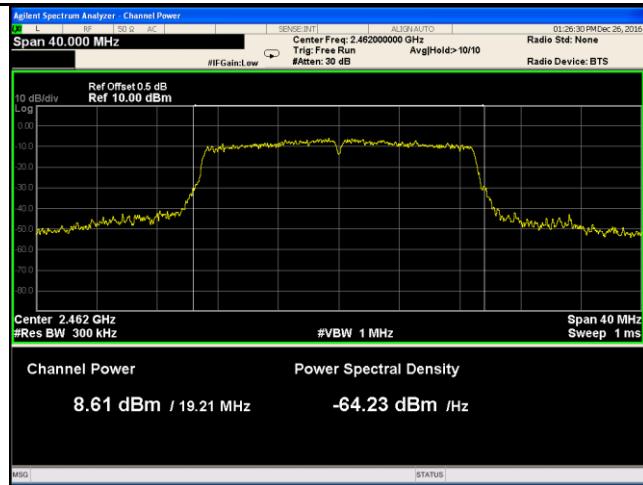
### The Average Power



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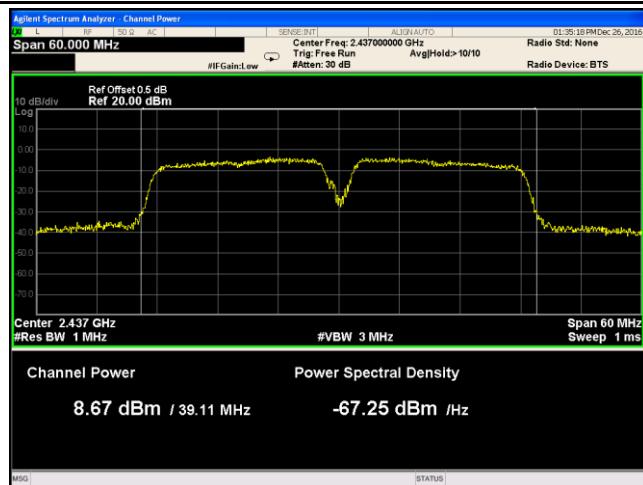
#### 802.11n20 - AV Output power - Low CH 2412



#### 802.11n20 - AV Output power - Mid CH 2437



#### 802.11n20 - AV Output power - High CH 2462



#### 802.11n40 - AV Output power - Low CH 2422

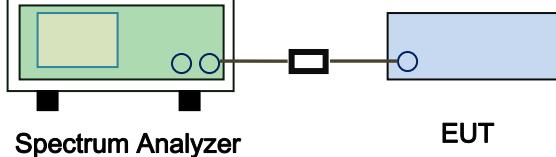


#### 802.11n40 - AV Output power - Mid CH 2437

#### 802.11n40 - AV Output power - High CH 2452

## 6.4 Power Spectral Density

Temperature	22°C
Relative Humidity	51%
Atmospheric Pressure	1001mbar
Test date :	December 26, 2016
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable
§15.247(e)	a)	The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	<input checked="" type="checkbox"/>
Test Setup		 <p style="text-align: center;">Spectrum Analyzer                                  EUT</p>	
Test Procedure		<p>558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power spectral density measurement procedure</p> <ul style="list-style-type: none"> <li>- a) Set analyzer center frequency to DTS channel center frequency.</li> <li>- b) Set the span to 1.5 times the DTS bandwidth.</li> <li>- c) Set the RBW to: <math>3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}</math>.</li> <li>- d) Set the VBW <math>\geq 3 \times \text{RBW}</math>.</li> <li>- e) Detector = peak.</li> <li>- f) Sweep time = auto couple.</li> <li>- g) Trace mode = max hold.</li> <li>- h) Allow trace to fully stabilize.</li> <li>- i) Use the peak marker function to determine the maximum amplitude level within the RBW.</li> <li>- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.</li> </ul>	
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

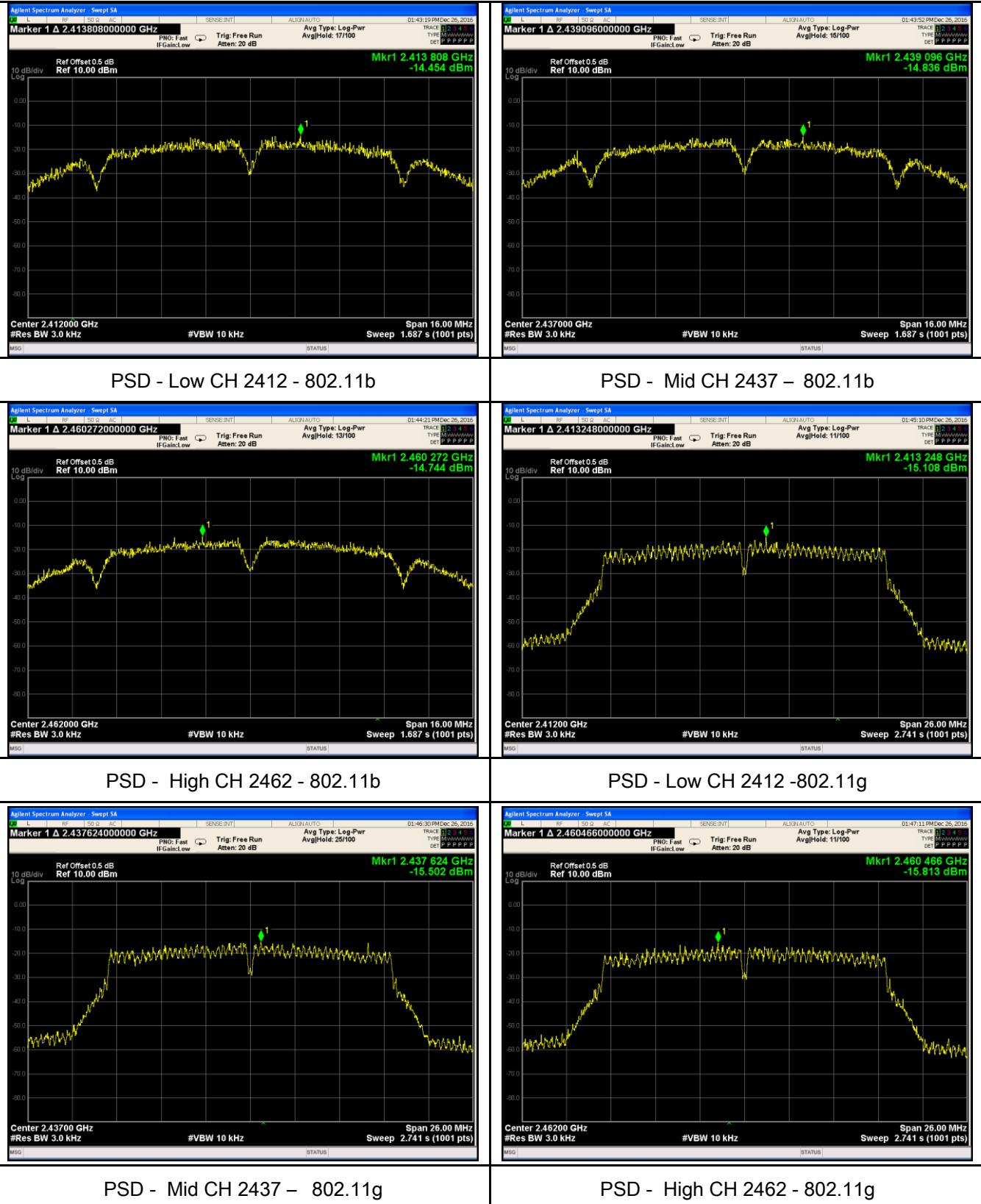
Test Data     Yes     N/A  
 Test Plot     Yes (See below)     N/A

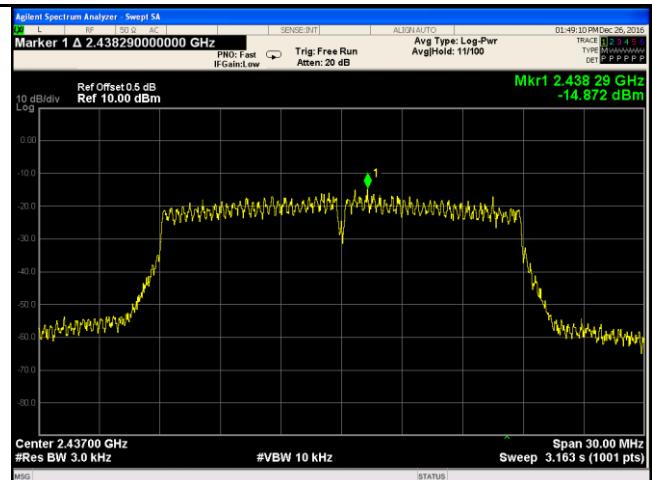
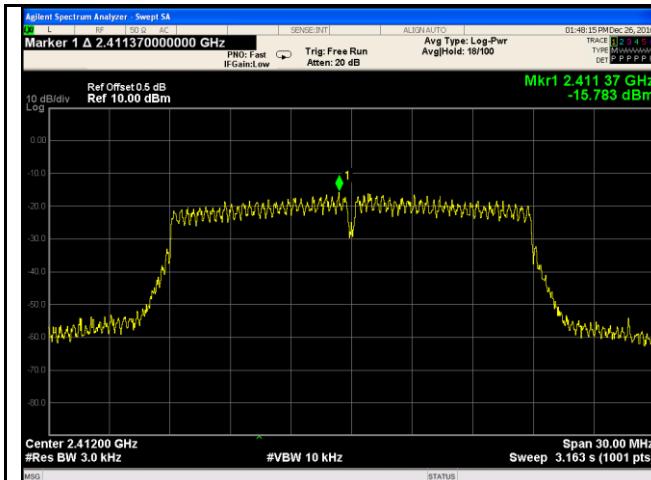
### Power Spectral Density measurement result

Type	Test mode	CH	Freq (MHz)	PSD	Limit (dBm)	Result
				(dBm)		
PSD	802.11b	Low	2412	-14.454	8	Pass
		Mid	2437	-14.836	8	Pass
		High	2462	-14.744	8	Pass
	802.11g	Low	2412	-15.108	8	Pass
		Mid	2437	-15.502	8	Pass
		High	2462	-15.813	8	Pass
	802.11n (20M)	Low	2412	-15.783	8	Pass
		Mid	2437	-14.872	8	Pass
		High	2462	-16.327	8	Pass
	802.11n (40M)	Low	2422	-18.166	8	Pass
		Mid	2437	-16.443	8	Pass
		High	2452	-18.252	8	Pass

## Test Plots

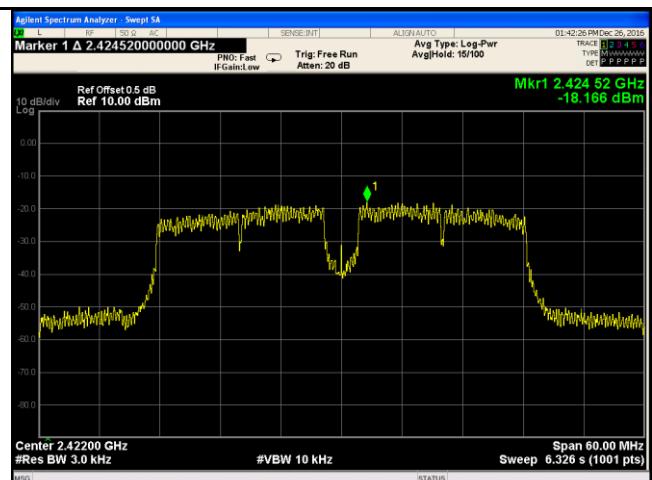
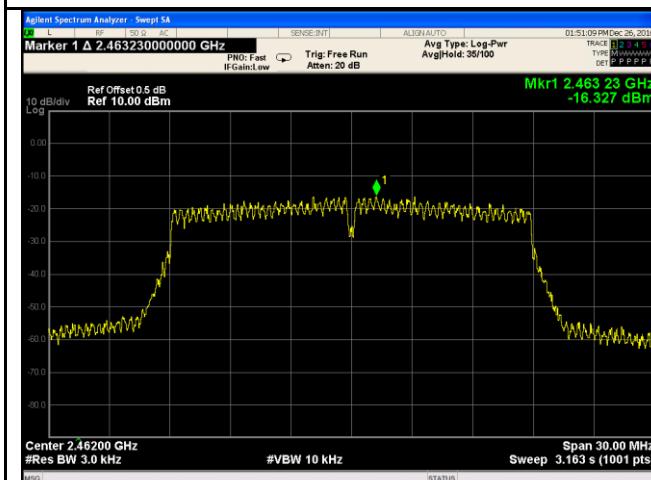
### Power Spectral Density measurement result





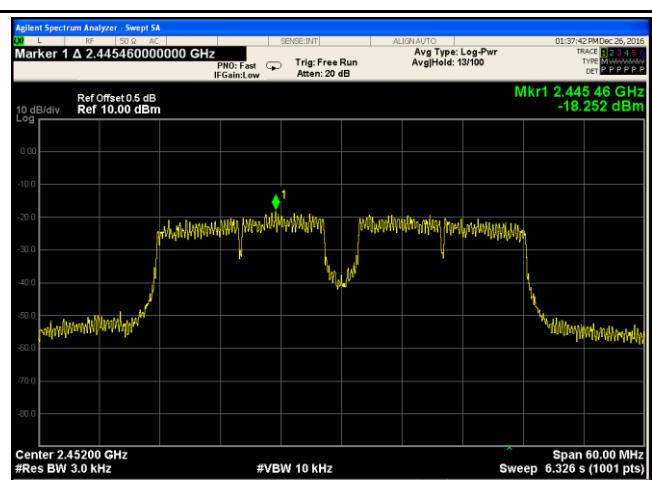
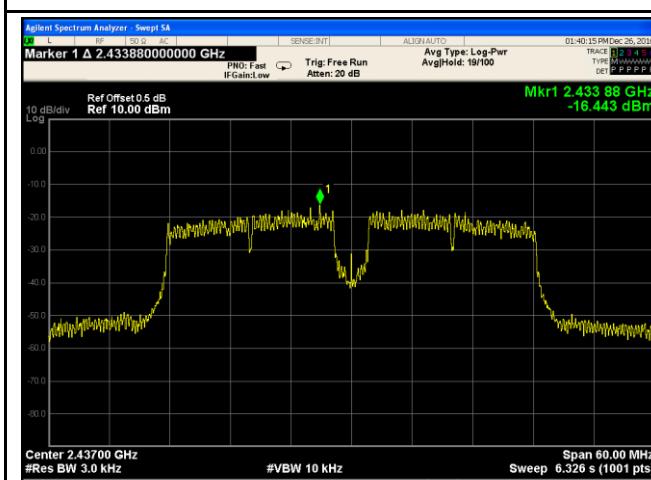
PSD - Low CH 2412 - 802.11n20

PSD - Mid CH 2437 – 802.11n20



PSD - High CH 2472 - 802.11n20

PSD - Low CH 2422 - 802.11n40



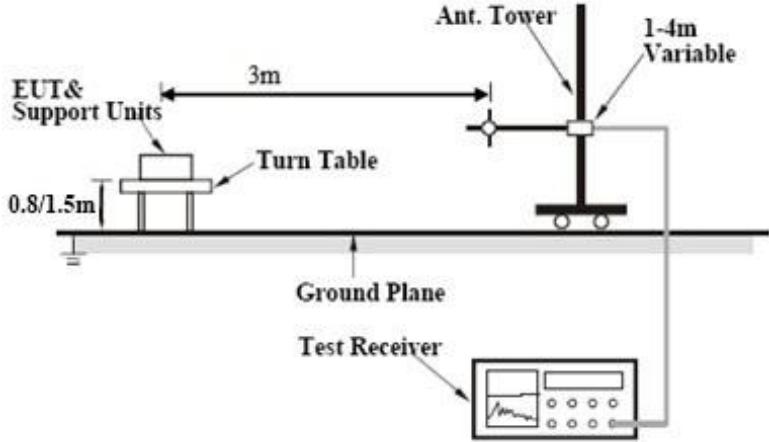
PSD - Mid CH 2437 – 802.11n40

PSD - High CH 2452 - 802.11n40

## 6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	23°C
Relative Humidity	53%
Atmospheric Pressure	1008mbar
Test date :	December 30, 2016
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(d)	a)	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 conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p>Radiated Method Only</p> <ul style="list-style-type: none"> <li>- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.</li> <li>- 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.</li> </ul>		

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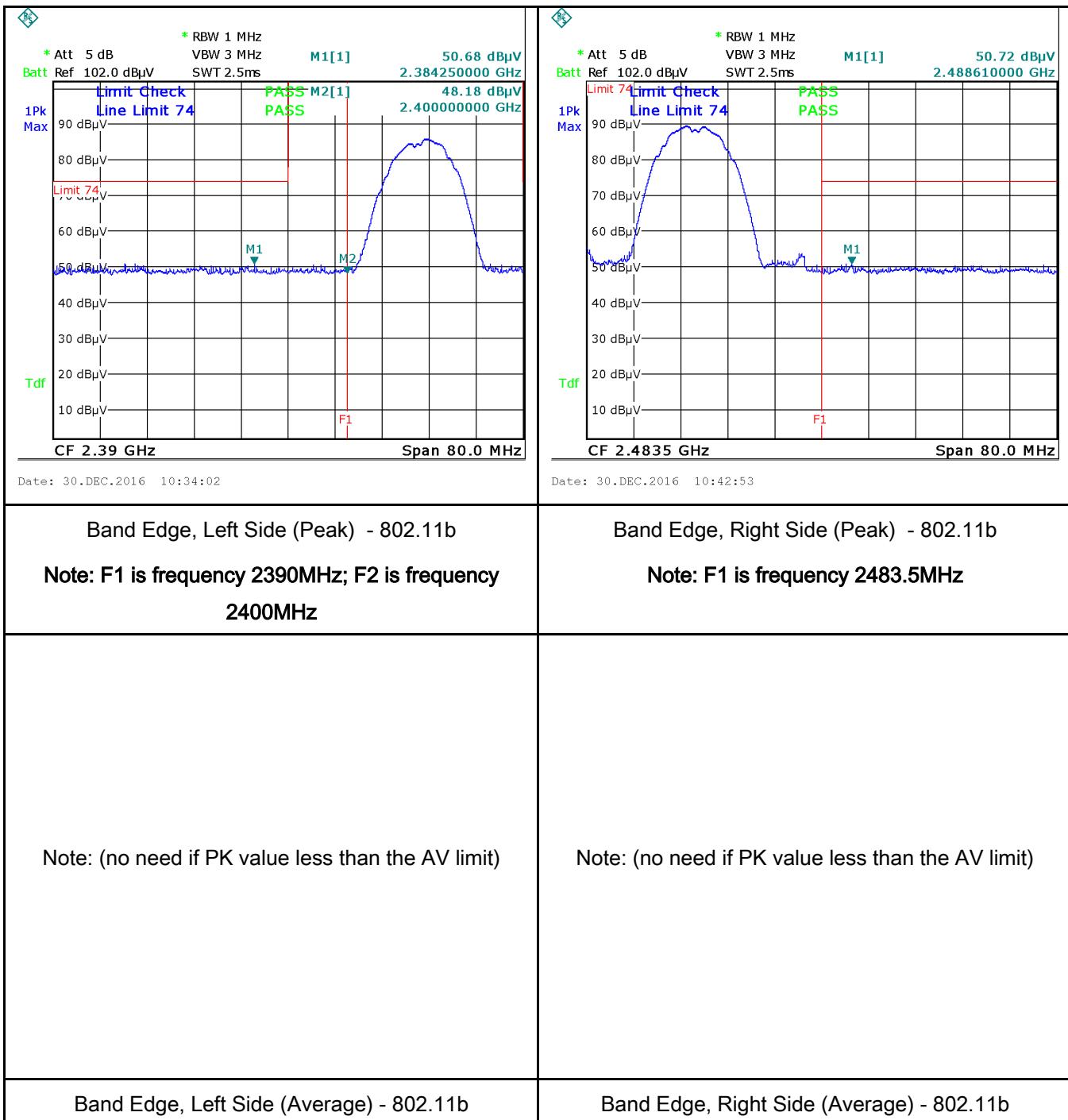
	<ul style="list-style-type: none"> <li>- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below:           <ul style="list-style-type: none"> <li>a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</li> <li>b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.</li> <li>c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</li> </ul> </li> <li>- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.</li> <li>- 5. Repeat above procedures until all measured frequencies were complete.</li> </ul>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

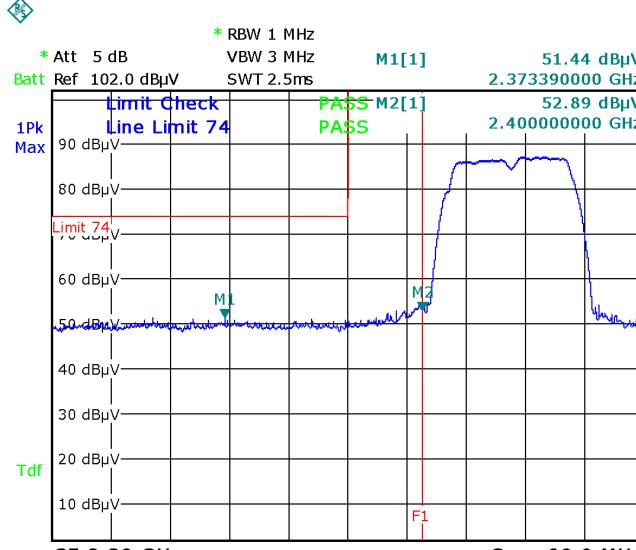
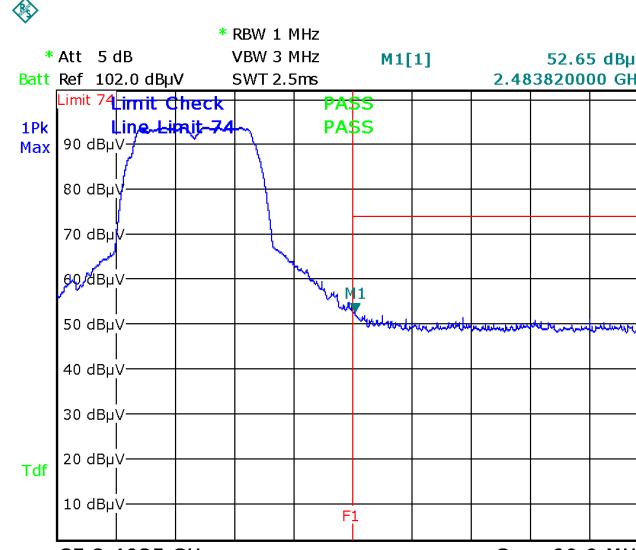
**Test Data**     Yes       N/A

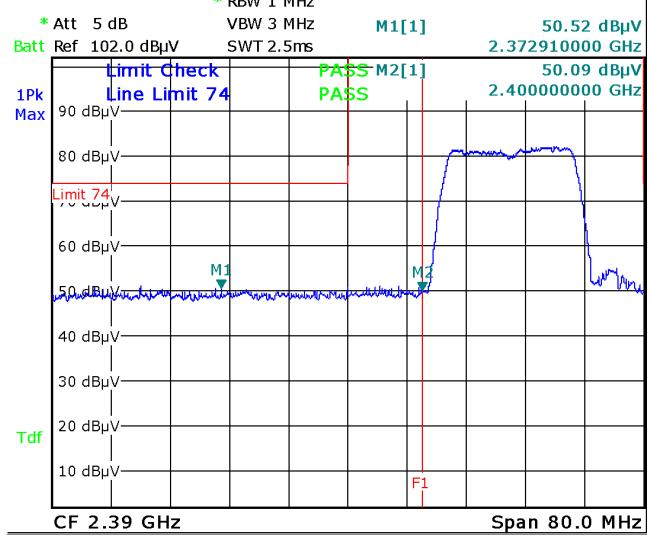
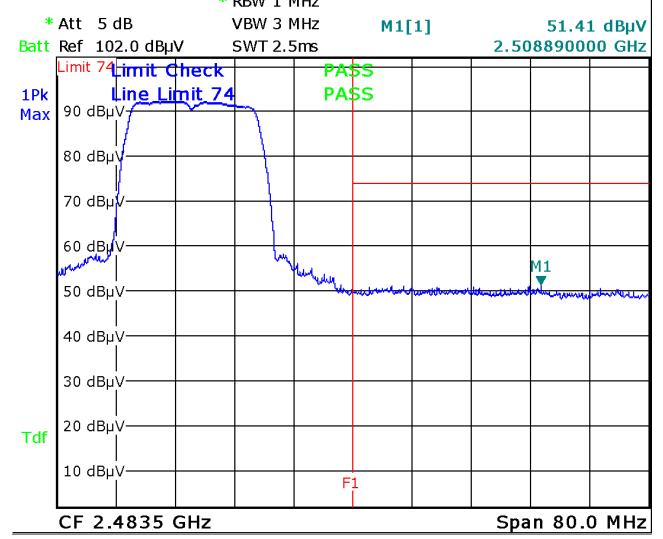
**Test Plot**     Yes (See below)       N/A

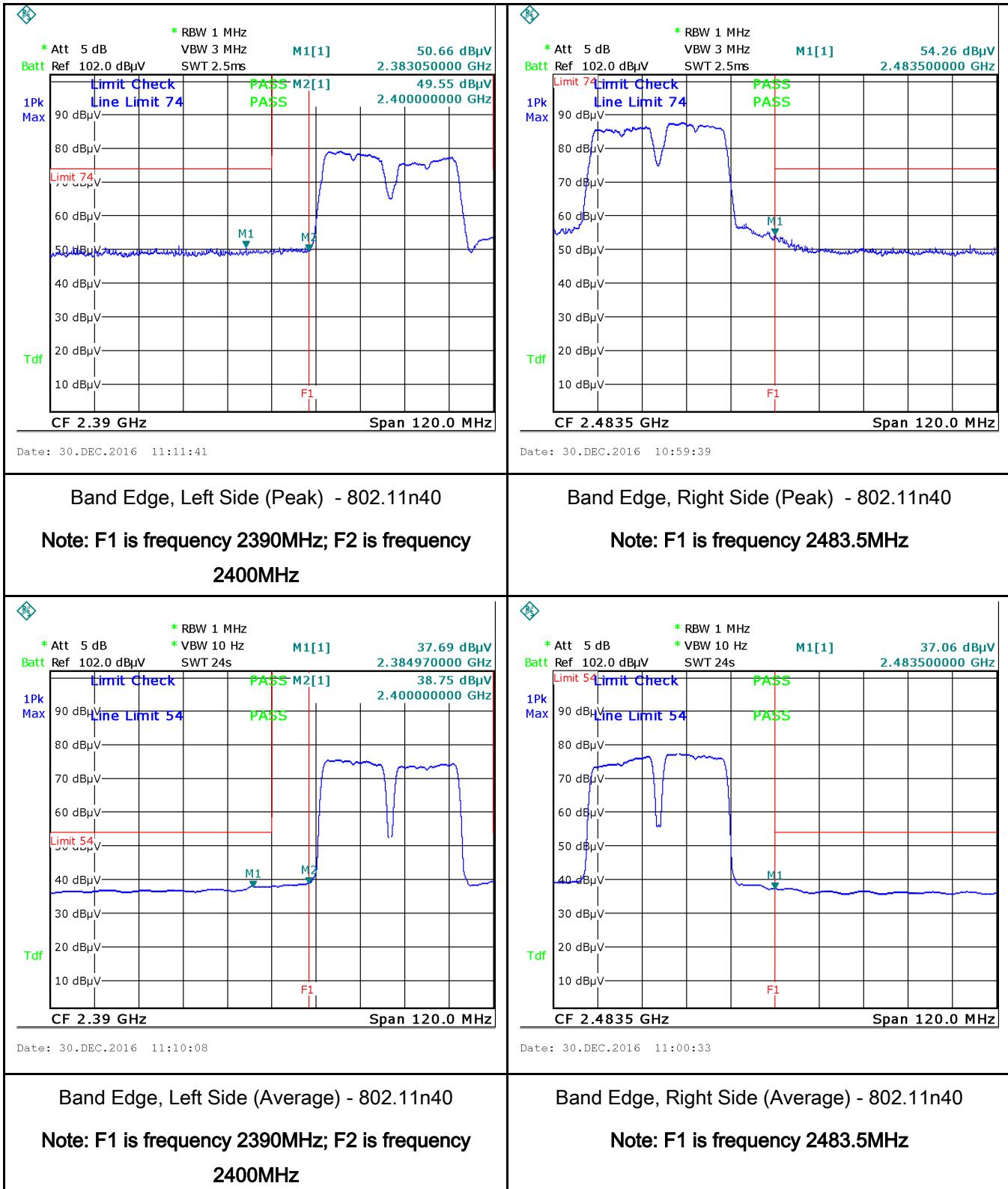
## Test Plots

### Band Edge measurement result



 <p>* RBW 1 MHz    * Att 5 dB    Batt Ref 102.0 dBµV    1Pk Max    Line Limit 74    90 dBµV    80 dBµV    70 dBµV    60 dBµV    50 dBµV    40 dBµV    30 dBµV    20 dBµV    10 dBµV    CF 2.39 GHz    Span 80.0 MHz</p> <p>M1[1] 51.44 dBµV    2.37339000 GHz    M2[1] 52.89 dBµV    2.400000000 GHz</p> <p>Tdf</p> <p>PASS M1[1]    PASS M2[1]</p>	 <p>* RBW 1 MHz    * Att 5 dB    Batt Ref 102.0 dBµV    1Pk Max    Line Limit 74    90 dBµV    80 dBµV    70 dBµV    60 dBµV    50 dBµV    40 dBµV    30 dBµV    20 dBµV    10 dBµV    CF 2.4835 GHz    Span 80.0 MHz</p> <p>M1[1] 52.65 dBµV    2.483820000 GHz    M1 51.44 dBµV    F1</p> <p>Tdf</p> <p>PASS M1[1]    PASS M1</p>
<p>Date: 30.DEC.2016 10:47:36</p> <p>Band Edge, Left Side (Peak) - 802.11g</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Date: 30.DEC.2016 10:44:54</p> <p>Band Edge, Right Side (Peak) - 802.11g</p> <p>Note: F1 is frequency 2483.5MHz</p>
<p>Note: (no need if PK value less than the AV limit)</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p>Band Edge, Left Side (Average) - 802.11g</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Average) - 802.11g</p> <p>Note: F1 is frequency 2483.5MHz</p>

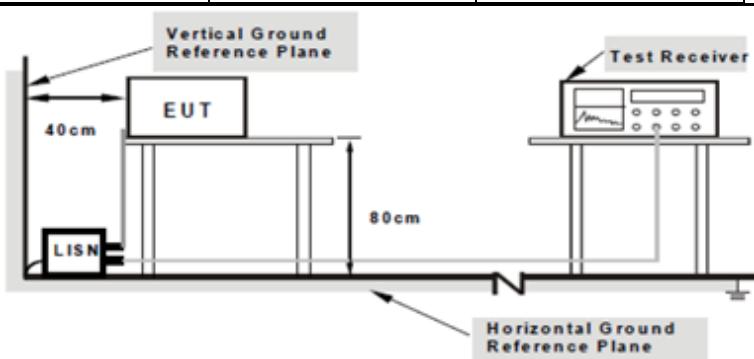
	
<p>Date: 30.DEC.2016 10:52:01</p> <p>Band Edge, Left Side (Peak) - 802.11n20</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Date: 30.DEC.2016 10:53:49</p> <p>Band Edge, Right Side (Peak) - 802.11n20</p> <p>Note: F1 is frequency 2483.5MHz</p>
<p>Note: (no need if PK value less than the AV limit)</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p>Band Edge, Left Side (Average) - 802.11n20</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Average) - 802.11n20</p> <p>Note: F1 is frequency 2483.5MHz</p>



## 6.6 AC Power Line Conducted Emissions

Temperature	23°C
Relative Humidity	53%
Atmospheric Pressure	1008mbar
Test date :	December 30, 2016
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15. 207, RSS210 (A8.1)	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dB<math>\mu</math>V)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dB $\mu$ V)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dB $\mu$ V)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															
Test Setup	 <p>Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>																
Procedure	<ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss</li> </ol>																

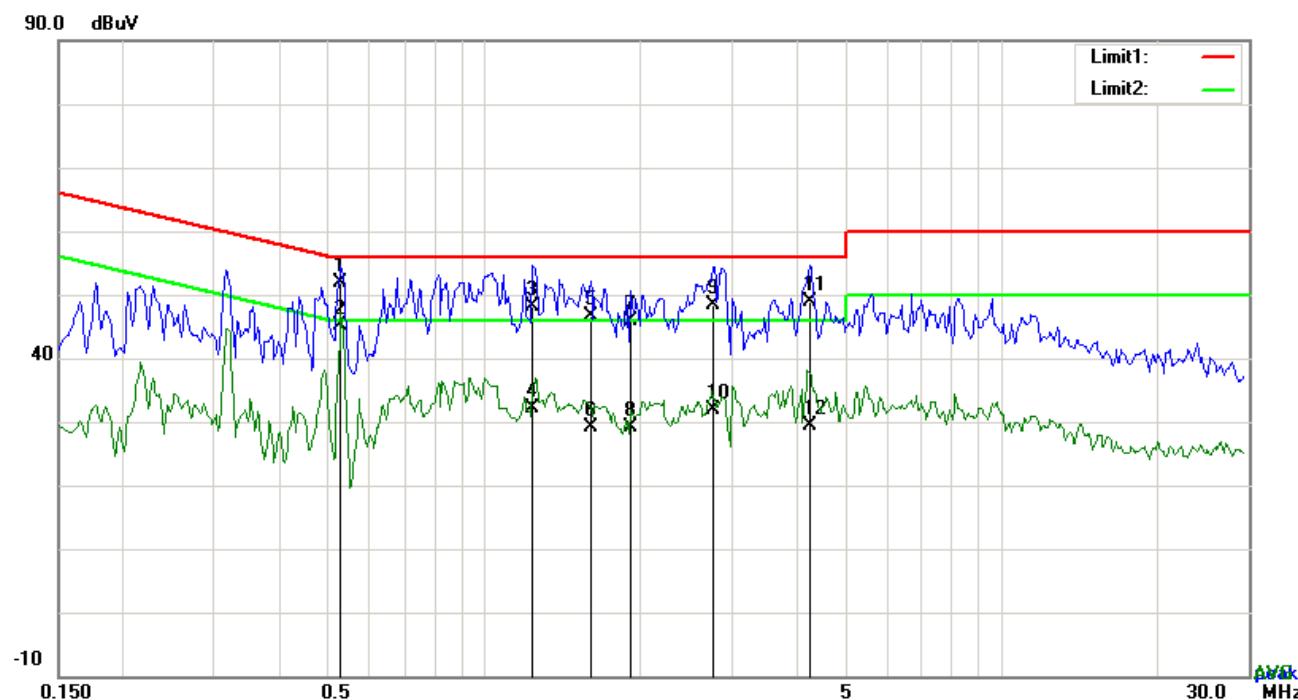
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	coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data  Yes  N/A

Test Plot  Yes (See below)  N/A

**Test Mode:** Transmitting Mode

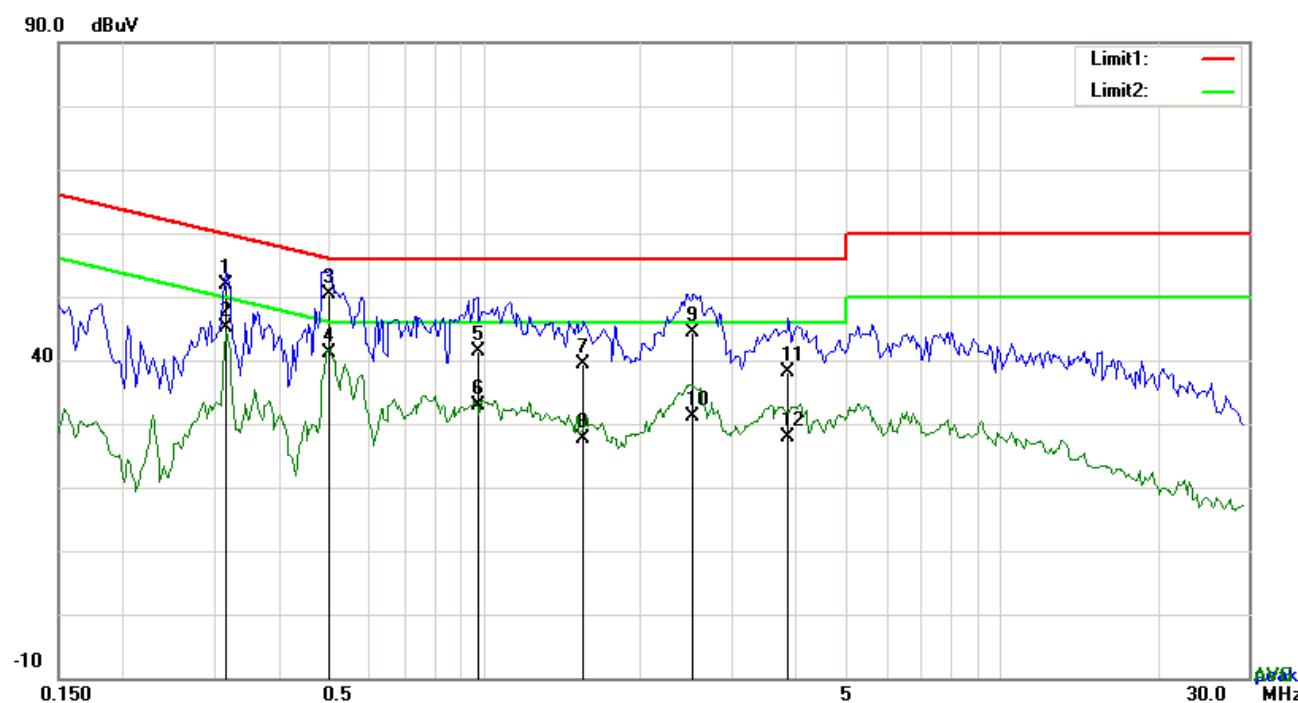


### Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)
1	L1	0.5283	41.93	QP	10.03	51.96	56.00	-4.04
2	L1	0.5283	35.05	AVG	10.03	45.08	46.00	-0.92
3	L1	1.2381	38.10	QP	10.03	48.13	56.00	-7.87
4	L1	1.2381	22.11	AVG	10.03	32.14	46.00	-13.86
5	L1	1.6047	36.63	QP	10.04	46.67	56.00	-9.33
6	L1	1.6047	18.97	AVG	10.04	29.01	46.00	-16.99
7	L1	1.9128	35.94	QP	10.04	45.98	56.00	-10.02
8	L1	1.9128	18.99	AVG	10.04	29.03	46.00	-16.97
9	L1	2.7786	38.34	QP	10.05	48.39	56.00	-7.61
10	L1	2.7786	21.78	AVG	10.05	31.83	46.00	-14.17
11	L1	4.2636	38.79	QP	10.07	48.86	56.00	-7.14
12	L1	4.2636	19.23	AVG	10.07	29.30	46.00	-16.70

**Test Mode:** Transmitting Mode

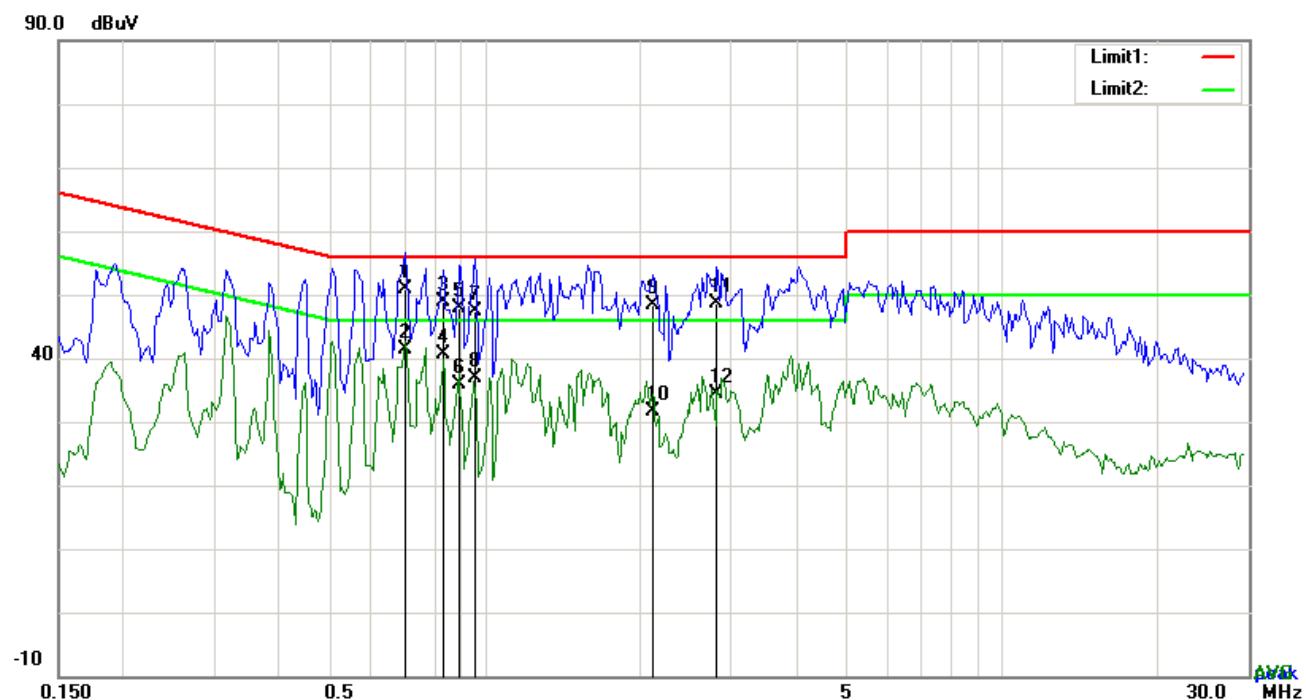


### Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)
1	N	0.3177	41.98	QP	10.02	52.00	59.77	-7.77
2	N	0.3177	35.06	AVG	10.02	45.08	49.77	-4.69
3	N	0.5010	40.42	QP	10.02	50.44	56.00	-5.56
4	N	0.5010	31.12	AVG	10.02	41.14	46.00	-4.86
5	N	0.9690	31.40	QP	10.03	41.43	56.00	-14.57
6	N	0.9690	22.82	AVG	10.03	32.85	46.00	-13.15
7	N	1.5579	29.35	QP	10.04	39.39	56.00	-16.61
8	N	1.5579	17.52	AVG	10.04	27.56	46.00	-18.44
9	N	2.5368	34.35	QP	10.05	44.40	56.00	-11.60
10	N	2.5368	20.97	AVG	10.05	31.02	46.00	-14.98
11	N	3.8736	28.00	QP	10.06	38.06	56.00	-17.94
12	N	3.8736	17.90	AVG	10.06	27.96	46.00	-18.04

**Test Mode:** Transmitting Mode

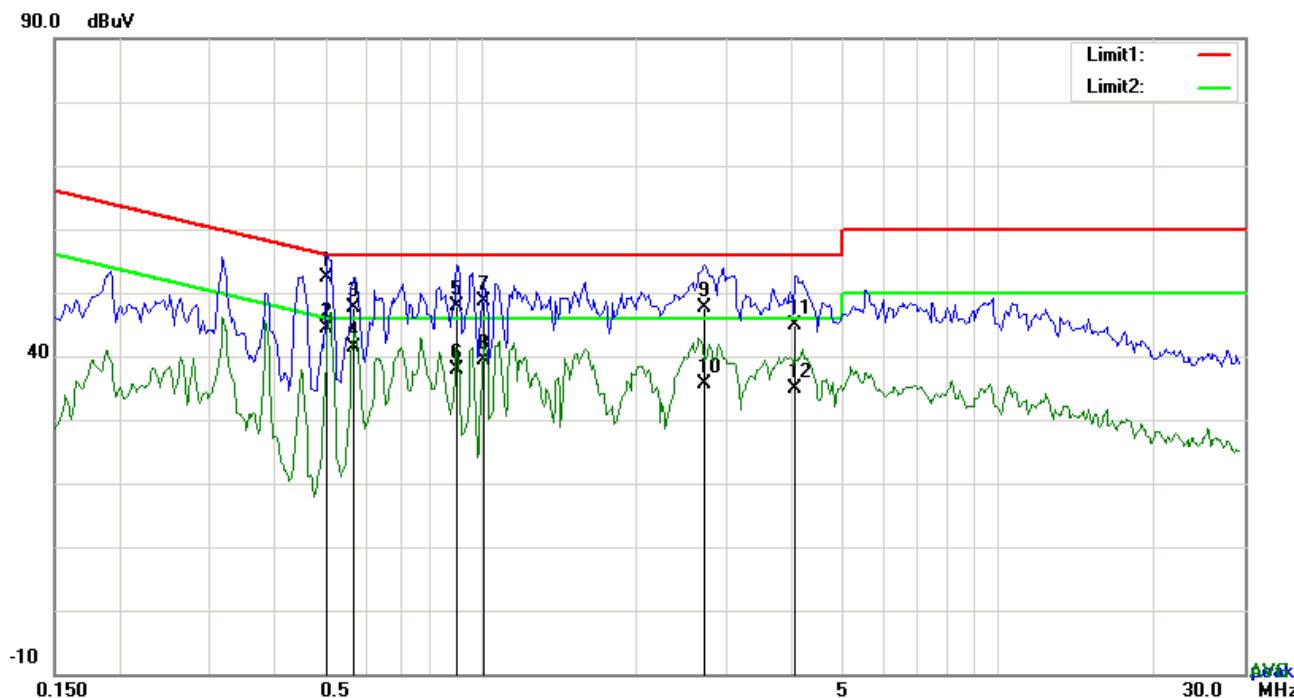


### *Test Data*

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)
1	L1	0.7038	40.74	QP	10.03	50.77	56.00	-5.23
2	L1	0.7038	31.44	AVG	10.03	41.47	46.00	-4.53
3	L1	0.8325	38.93	QP	10.03	48.96	56.00	-7.04
4	L1	0.8325	30.57	AVG	10.03	40.60	46.00	-5.40
5	L1	0.8988	37.91	QP	10.03	47.94	56.00	-8.06
6	L1	0.8988	25.88	AVG	10.03	35.91	46.00	-10.09
7	L1	0.9612	37.40	QP	10.03	47.43	56.00	-8.57
8	L1	0.9612	26.77	AVG	10.03	36.80	46.00	-9.20
9	L1	2.1156	38.25	QP	10.04	48.29	56.00	-7.71
10	L1	2.1156	21.55	AVG	10.04	31.59	46.00	-14.41
11	L1	2.8215	38.58	QP	10.05	48.63	56.00	-7.37
12	L1	2.8215	24.23	AVG	10.05	34.28	46.00	-11.72

**Test Mode:** Transmitting Mode



### Test Data

Phase Neutral Plot at 240Vac, 60Hz

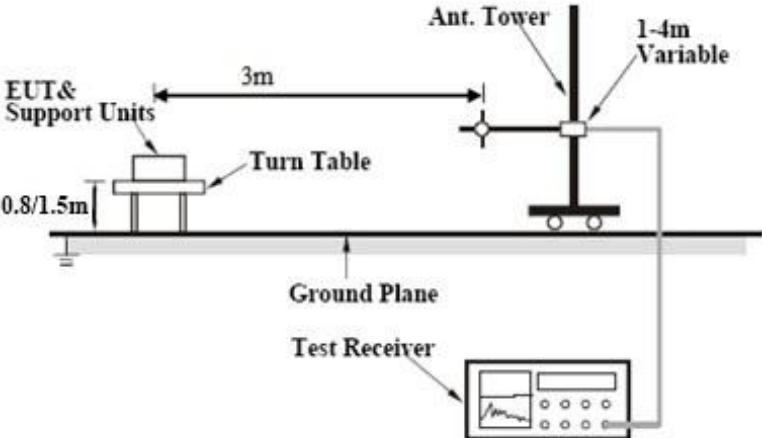
No.	P/L	Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)
1	N	0.5049	42.25	QP	10.02	52.27	56.00	-3.73
2	N	0.5049	34.40	AVG	10.02	44.42	46.00	-1.58
3	N	0.5673	37.68	QP	10.02	47.70	56.00	-8.30
4	N	0.5673	31.30	AVG	10.02	41.32	46.00	-4.68
5	N	0.9027	37.79	QP	10.03	47.82	56.00	-8.18
6	N	0.9027	27.82	AVG	10.03	37.85	46.00	-8.15
7	N	1.0119	38.71	QP	10.03	48.74	56.00	-7.26
8	N	1.0119	29.25	AVG	10.03	39.28	46.00	-6.72
9	N	2.7084	37.58	QP	10.05	47.63	56.00	-8.37
10	N	2.7084	25.52	AVG	10.05	35.57	46.00	-10.43
11	N	4.0608	34.86	QP	10.06	44.92	56.00	-11.08
12	N	4.0608	24.83	AVG	10.06	34.89	46.00	-11.11

## 6.7 Radiated Spurious Emissions & Restricted Band

Temperature	23°C
Relative Humidity	53%
Atmospheric Pressure	1008mbar
Test date :	December 30, 2016
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15. 247(d), RSS210 (A8.5)	a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (<math>\mu</math>V/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength ( $\mu$ V/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength ( $\mu$ V/m)												
30 – 88	100												
88 – 216	150												
216 960	200												
Above 960	500												
b)	<p>For non-restricted band, 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 or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required</p> <p><input checked="" type="checkbox"/> 20 dB down      <input type="checkbox"/> 30 dB down</p>	<input checked="" type="checkbox"/>											
c)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	<input checked="" type="checkbox"/>											

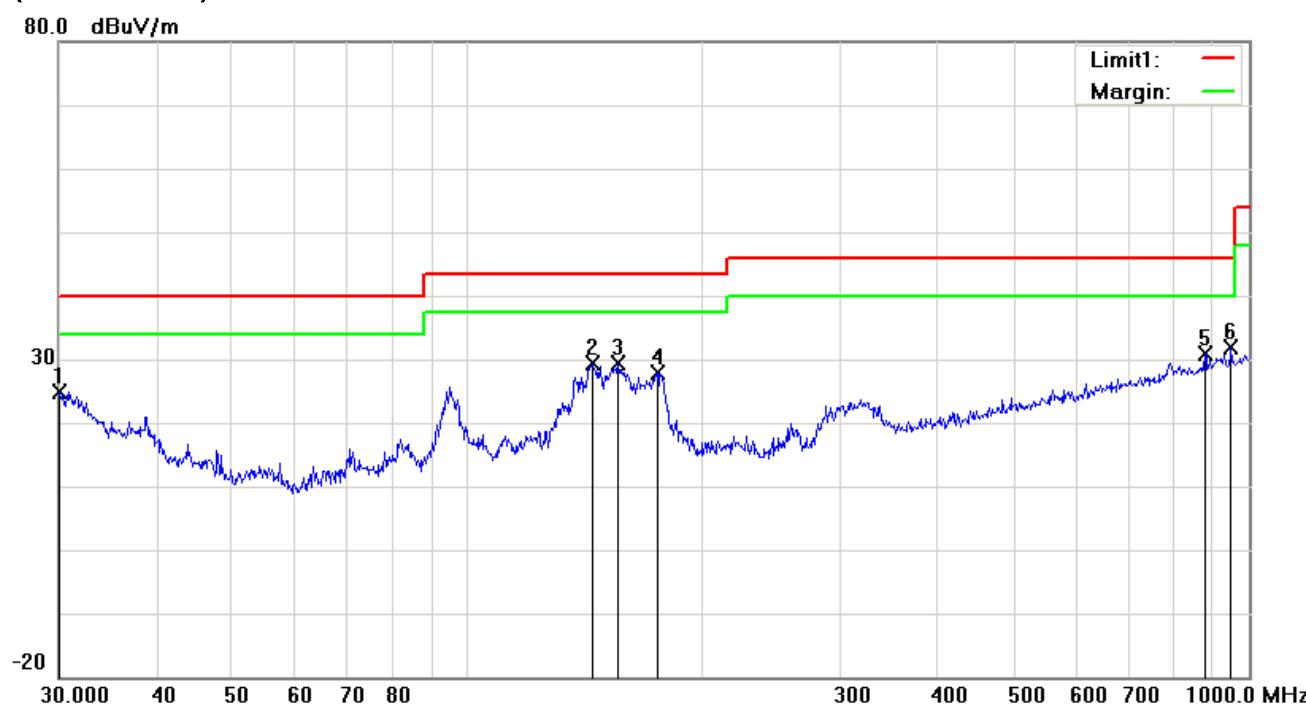
Test Setup	 <p>The diagram illustrates the test setup. An EUT &amp; Support Units assembly sits on a Turn Table, which is positioned above a Ground Plane. A vertical Ant. Tower is connected to the turn table via a horizontal crossbar. The tower has a height adjustment mechanism labeled '1-4m Variable'. A Test Receiver is connected to the tower. A dimension line indicates a distance of 3m between the EUT &amp; Support Units and the Ant. Tower. A height dimension of 0.8/1.5m is shown for the EUT &amp; Support Units.</p>
Procedure	<ol style="list-style-type: none"> <li>1. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:           <ol style="list-style-type: none"> <li>a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>b. The EUT was then rotated to the direction that gave the maximum emission.</li> <li>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</li> <li>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</li> <li>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>
Remark	Different RF configuration has been evaluated but not much difference was found. The data presented here is the worst case data with EUT under 802.11n – HT20-2437MHz mode.
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data     Yes       N/A

Test Plot     Yes (See below)       N/A

**Test Mode:** Transmitting Mode

(Below 1GHz)



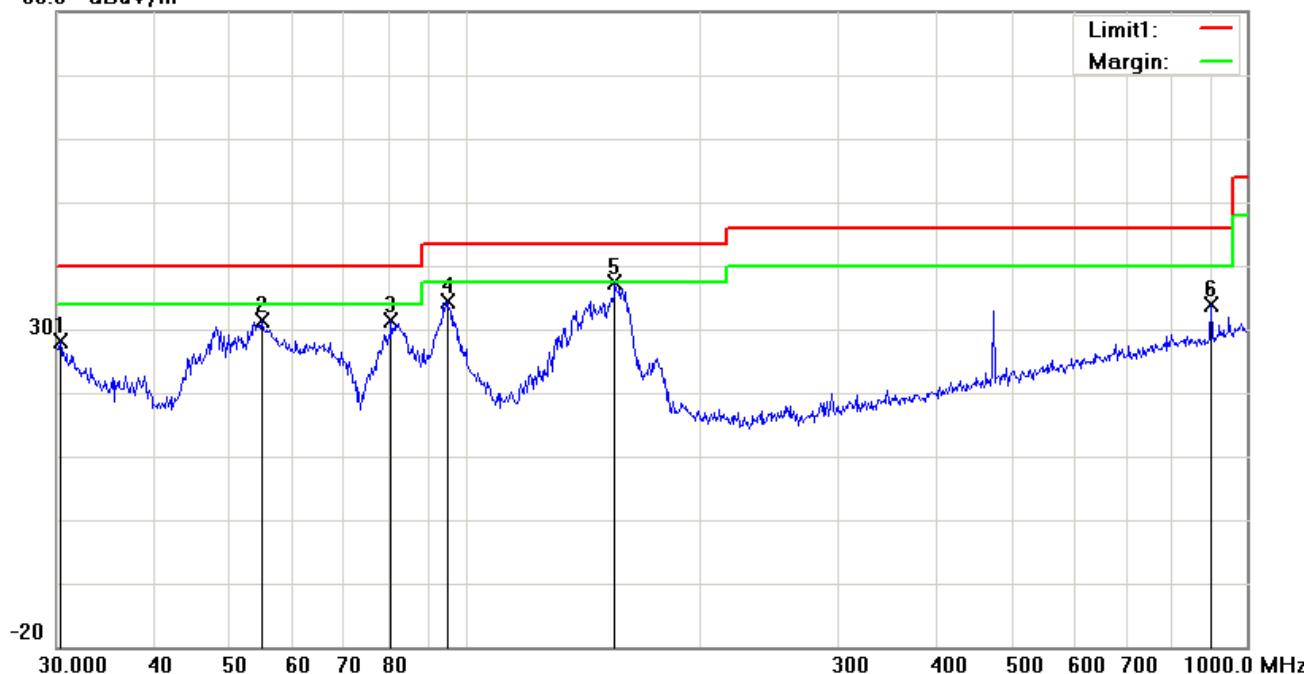
### Test Data

Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dB <sub>uV</sub> )	Detector	Corrected (dB)	Result (dB <sub>uV</sub> )	Limit (dB <sub>uV</sub> )	Margin (dB)	Height	Degree
1	H	30.0000	25.13	peak	-0.26	24.87	40.00	-15.13	149	207
2	H	144.8418	37.96	peak	-8.48	29.48	43.50	-14.02	193	144
3	H	155.9101	37.59	peak	-8.33	29.26	43.50	-14.24	177	51
4	H	175.0368	37.33	peak	-9.49	27.84	43.50	-15.66	124	147
5	H	878.3214	26.58	peak	4.30	30.88	46.00	-15.12	114	94
6	H	948.7610	26.86	peak	5.12	31.98	46.00	-14.02	101	41

**(Below 1GHz)**

80.0 dB $\mu$ V/m



**Test Data**

Horizontal Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Height	Degree
1	V	30.3173	28.73	peak	-0.49	28.24	40.00	-11.76	214	173
2	V	54.8348	45.18	peak	-13.74	31.44	40.00	-8.56	209	140
3	V	80.3619	45.15	peak	-13.76	31.39	40.00	-8.61	153	35
4	V	94.7601	46.49	peak	-12.19	34.30	43.50	-9.20	190	347
5	V	155.3644	45.66	QP	-8.33	37.33	43.50	-6.17	221	220
6	V	900.1474	29.19	peak	4.69	33.88	46.00	-12.12	241	245

**Above 1GHz**

<b>Test Mode:</b>	<b>Transmitting Mode</b>
-------------------	--------------------------

**Low Channel (2412 MHz) (b mode worst case)**

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4824	38.79	AV	V	33.8	6.86	32.69	46.76	54	-7.24
4824	38.21	AV	H	33.8	6.86	32.69	46.18	54	-7.82
4824	49.12	PK	V	33.8	6.86	32.69	57.09	74	-16.91
4824	48.31	PK	H	33.8	6.86	32.69	56.28	74	-17.72
17886	24.51	AV	V	45.12	11.57	32.11	49.09	54	-4.91
17886	23.76	AV	H	45.12	11.57	32.11	48.34	54	-5.66
17886	40.15	PK	V	45.12	11.57	32.11	64.73	74	-9.27
17886	39.54	PK	H	45.12	11.57	32.11	64.12	74	-9.88

**Middle Channel (2437 MHz) (n40 mode worst case)**

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4874	39.67	AV	V	33.6	6.82	32.71	47.38	54	-6.62
4874	38.75	AV	H	33.6	6.82	32.71	46.46	54	-7.54
4874	48.13	PK	V	33.6	6.82	32.71	55.84	74	-18.16
4874	47.81	PK	H	33.6	6.82	32.71	55.52	74	-18.48
17923	23.87	AV	V	45.17	11.63	32.18	48.49	54	-5.51
17923	23.16	AV	H	45.17	11.63	32.18	47.78	54	-6.22
17923	39.84	PK	V	45.17	11.63	32.18	64.46	74	-9.54
17923	38.76	PK	H	45.17	11.63	32.18	63.38	74	-10.62

## High Channel (2452 MHz) (g mode worst case)

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4924	39.87	AV	V	33.83	6.95	32.79	47.86	54	-6.14
4924	39.15	AV	H	33.83	6.95	32.79	47.14	54	-6.86
4924	48.65	PK	V	33.83	6.95	32.79	56.64	74	-17.36
4924	47.35	PK	H	33.83	6.95	32.79	55.34	74	-18.66
17905	23.64	AV	V	45.19	11.61	32.24	48.20	54	-5.8
17905	22.87	AV	H	45.19	11.61	32.24	47.43	54	-6.57
17905	40.25	PK	V	45.19	11.61	32.24	64.81	74	-9.19
17905	39.64	PK	H	45.19	11.61	32.24	64.20	74	-9.8

**Note:**

- 1, The testing has been conformed to  $10 \times 2462\text{MHz} = 24,620\text{MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted</b>					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
<b>RF conducted test</b>					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>

## Annex B. EUT and Test Setup Photographs

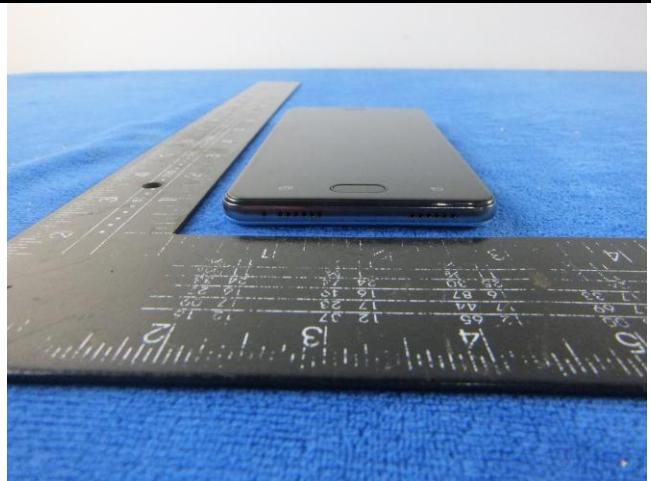
### Annex B.i. Photograph: EUT External Photo



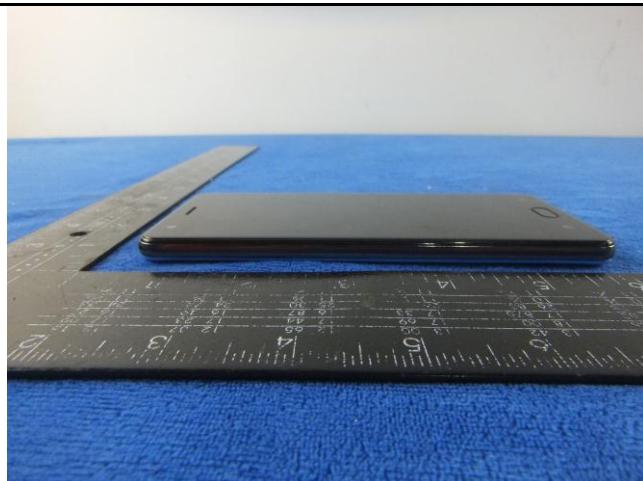
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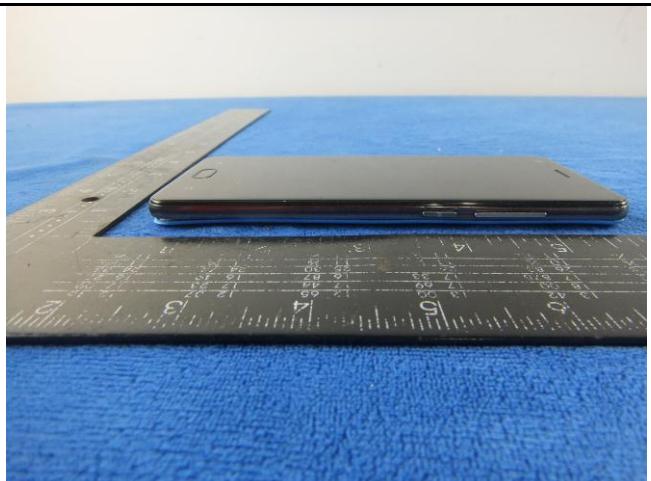
EUT - Top View



EUT - Bottom View

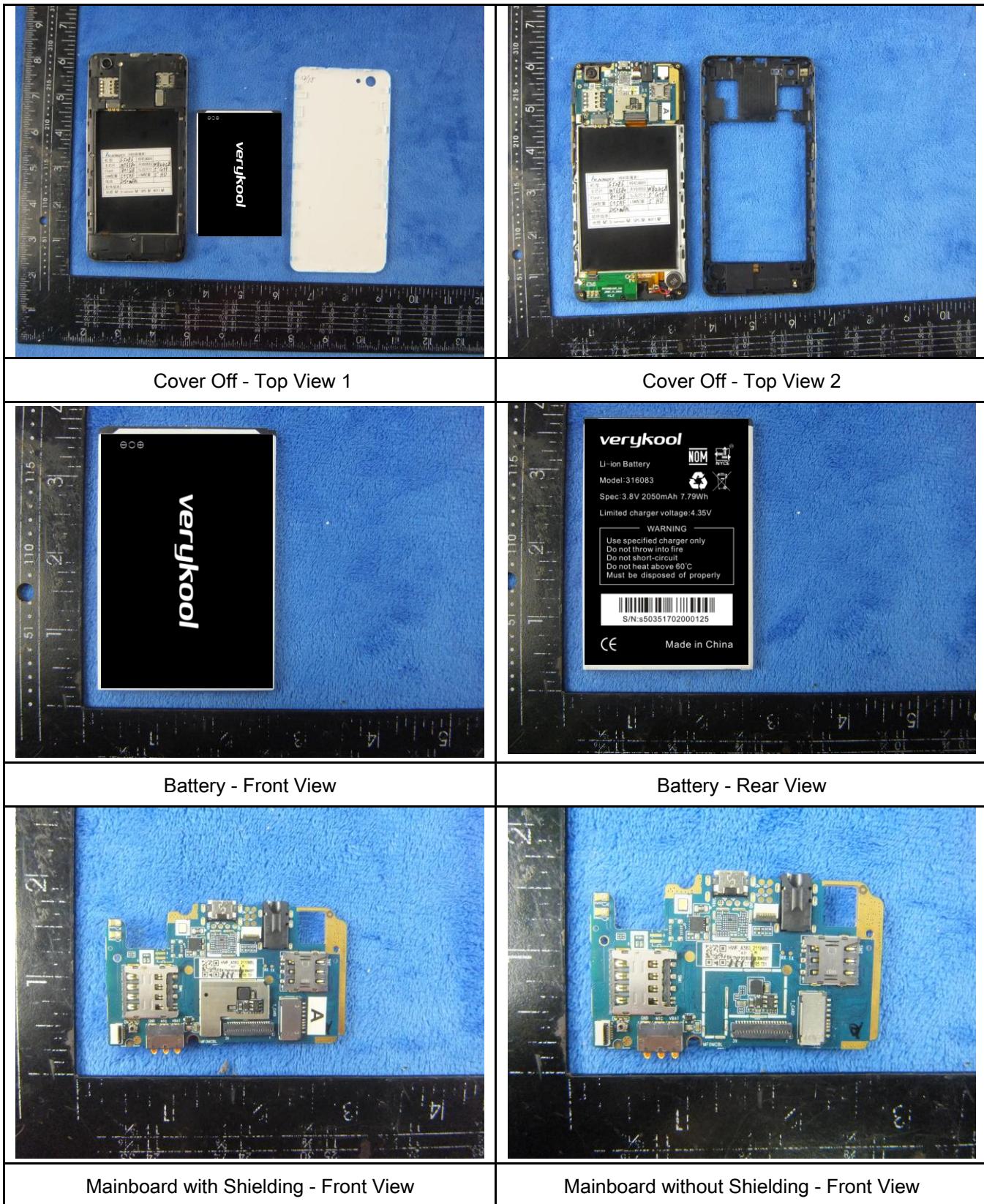


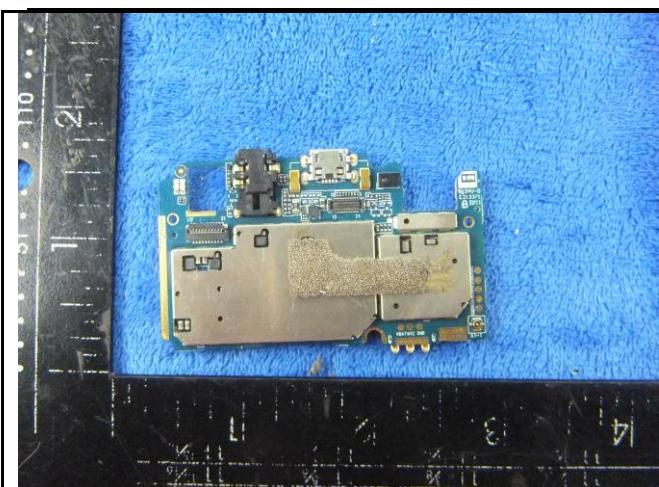
EUT - Left View



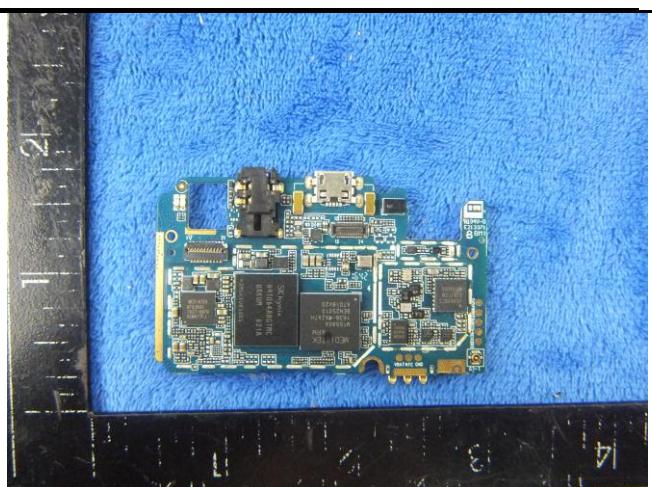
EUT - Right View

### Annex B.ii. Photograph: EUT Internal Photo





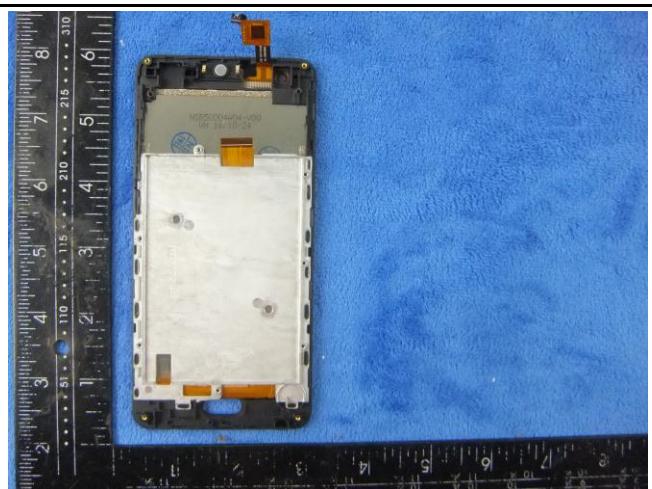
Mainboard with Shielding – Rear View



Mainboard without Shielding - Rear View



LCD – Front View



LCD – Rear View

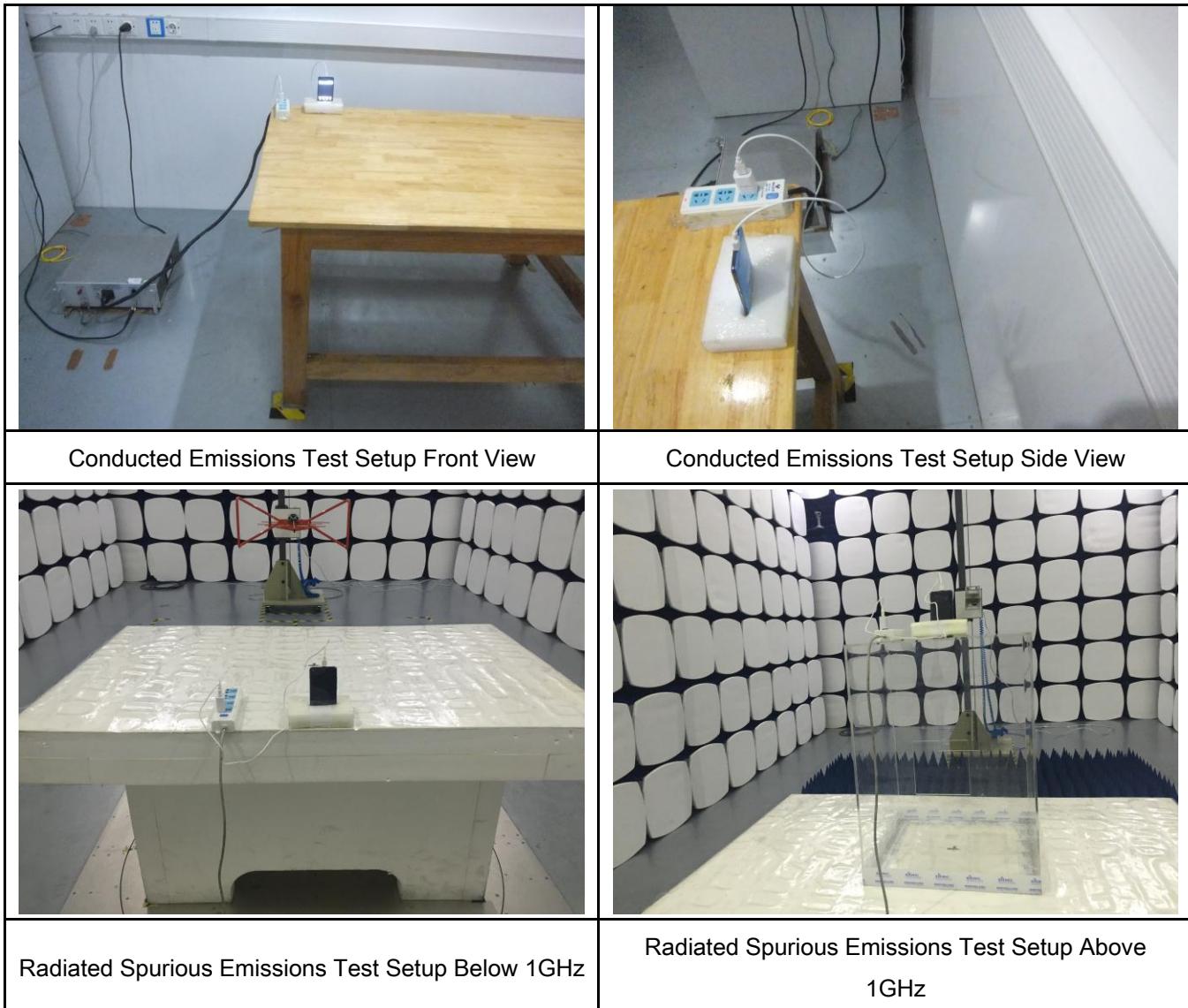


GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE/GPS - Antenna View

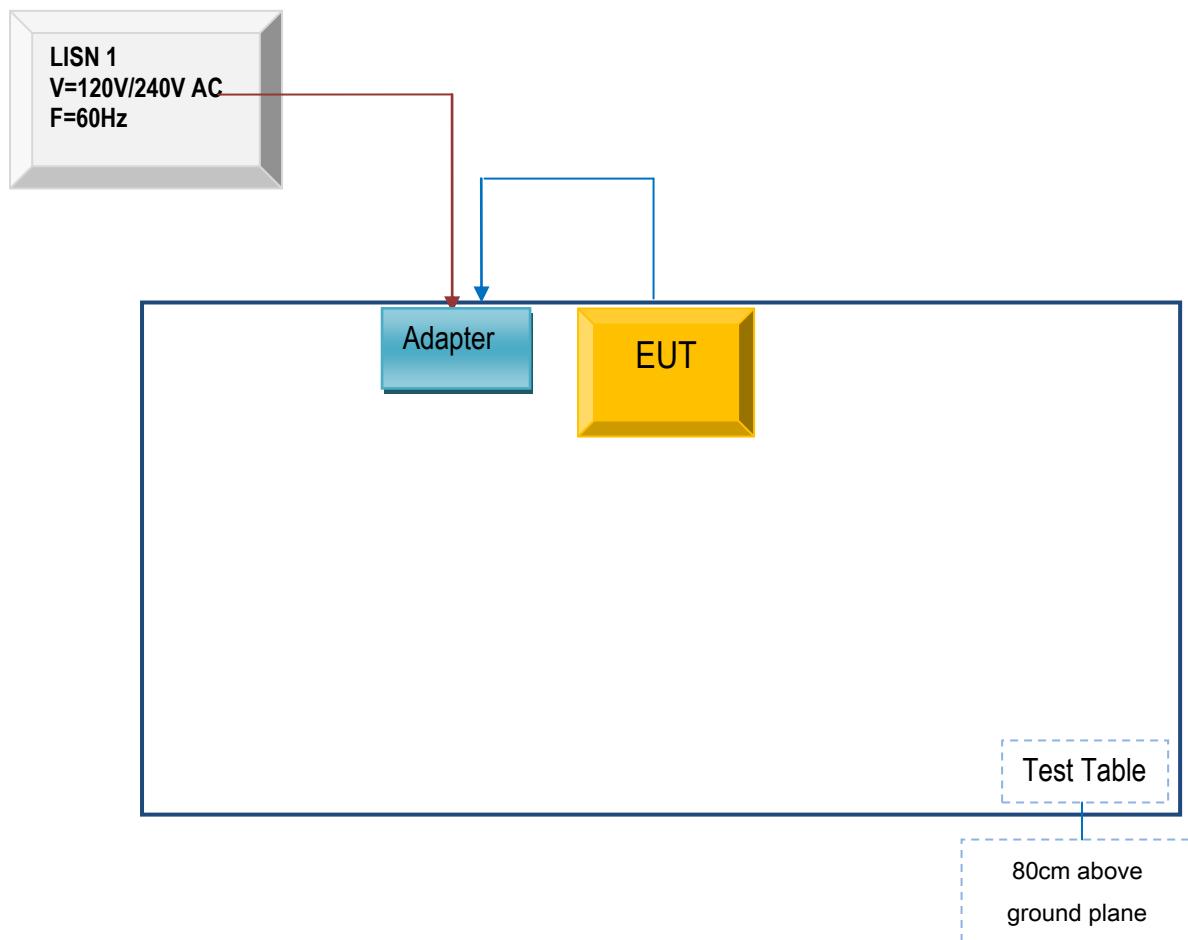
**Annex B.iii. Photograph: Test Setup Photo**



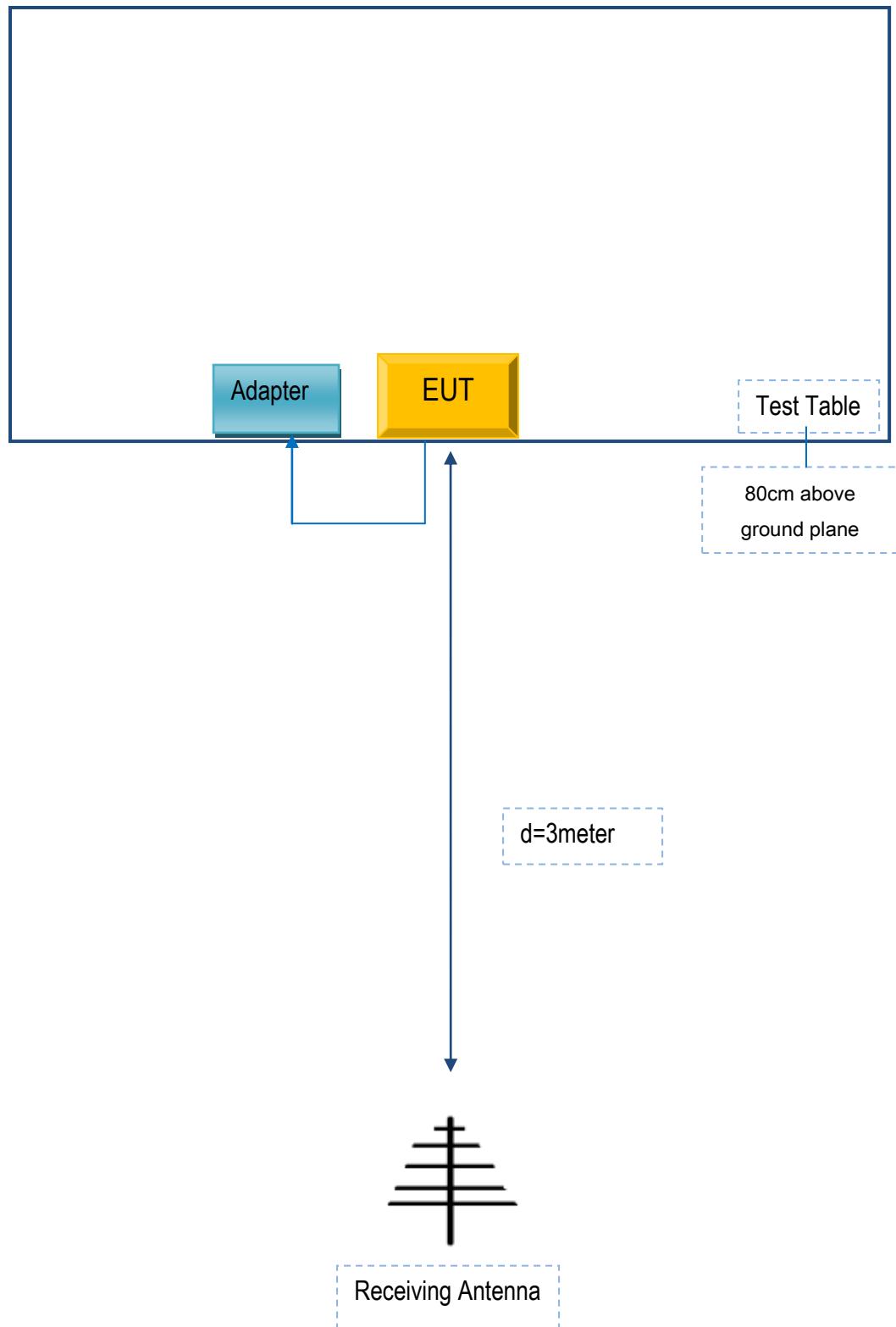
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

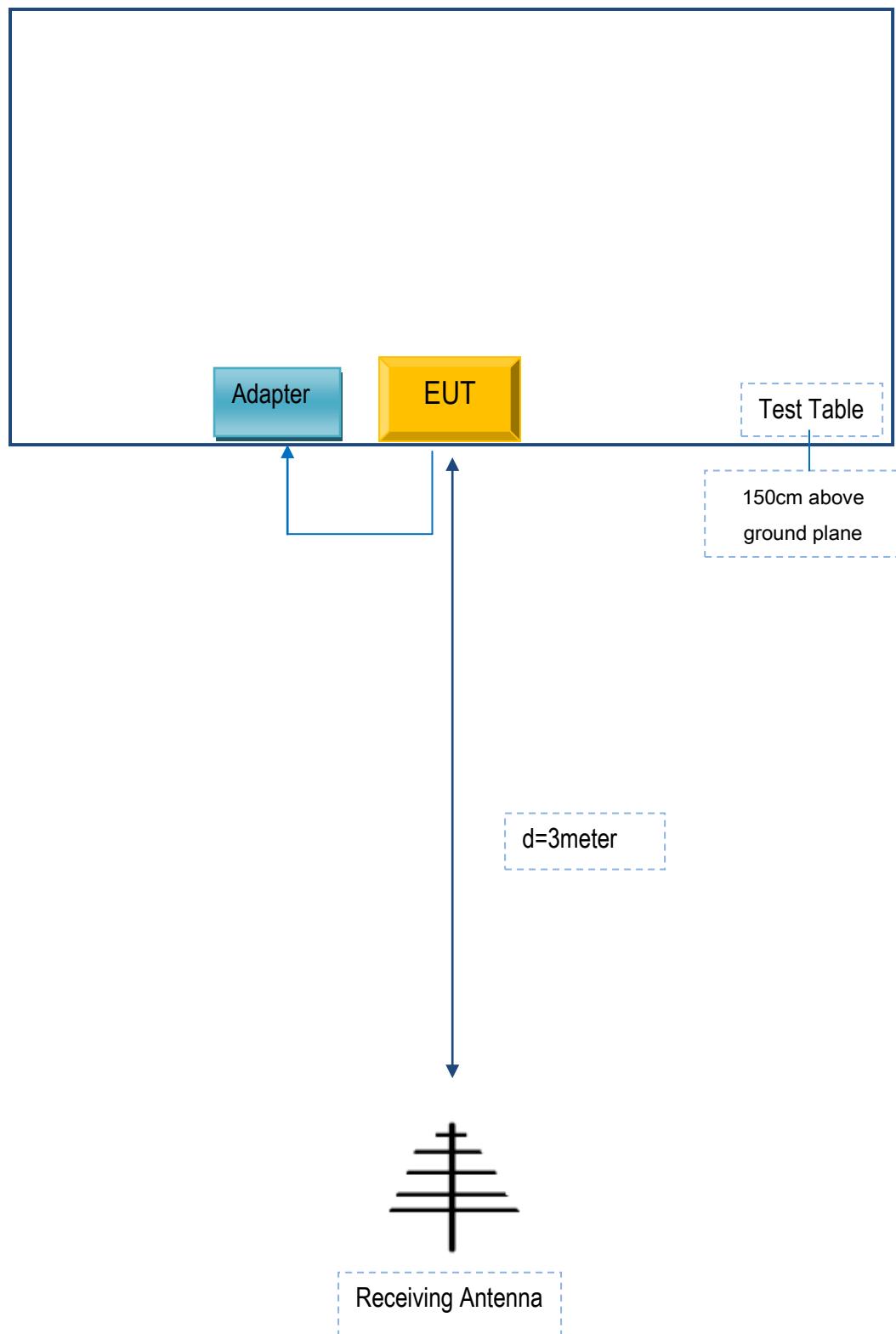
Block Configuration Diagram for AC Line Conducted Emissions



Block Configuration Diagram for Radiated Emissions ( Below 1GHz ) .



Block Configuration Diagram for Radiated Emissions ( Above 1GHz ) .



## Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

### Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Verykool USA Inc	Adapter	QU050100	Y03346

### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	Y03346

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## Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

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## Annex E. DECLARATION OF SIMILARITY

N/A