


# RF TEST REPORT



Report No.: 15050043-FCC-R3

Supersede Report No.: N/A

Applicant	b mobile HK Limited	
Product Name	Mobile phone	
Model No.	B1+	
Serial No.	AX1095	
Test Standard	FCC Part 15.247: 2014, ANSI C63.10: 2013	
Test Date	November 06 to November 23, 2015	
Issue Date	December 15, 2015	
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"/>	
<i>Winnie Zhang</i>	<i>David Huang</i>	
Winnie Zhang Test Engineer	David Huang Checked By	
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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
15050043-FCC-R3	NONE	Original	November 23, 2015
15050043-FCC-R3	V1	Update the KDB 558074 v03r02 to KDB 558074 v03r03 and adding Duty Cycle data	December 15, 2015

## 2. Customer information

Applicant Name	b mobile HK Limited
Applicant Add	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New Territories; Hong Kong
Manufacturer	b mobile HK Limited
Manufacturer Add	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New Territories; Hong Kong

## 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:	B1+
Serial Model:	AX1095
Date EUT received:	November 05, 2015
Test Date(s):	November 06 to November 23, 2015
Equipment Category :	DTS
Antenna Gain:	GSM850: -1dBi PCS1900: 0 dBi UMTS-FDD Band V: 0 dBi UMTS-FDD Band IV: 0.5 dBi UMTS-FDD Band II: 0.5 dBi Bluetooth/BLE: 0.5 dBi WIFI:0.5dBi LTE Band 2: 0.5 dBi LTE Band 4: 0.5 dBi LTE Band 5: 0dBi LTE Band 7: 0.8 dBi LTE Band 12: 0 dBi GPS:1.8 dBi
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK, 8PSK UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK BLE: GFSK LTE Band: QPSK, 16QAM 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
	UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; RX: 1932.4 ~ 1987.6 MHz
RF Operating Frequency (ies):	WIFI:802.11b/g/n(20M): 2412-2472 MHz
	WIFI:802.11n(40M): 2422-2462 MHz
	Bluetooth& BLE: 2402-2480 MHz
	LTE Band 2 TX: 1852.5 ~ 1907.5 MHz; RX : 1932.5 ~ 1987.5 MHz
	LTE Band 4 TX: 1712.5 ~ 1752.5 MHz; RX : 2112.5 ~ 2152.5 MHz
	LTE Band 5 TX: 826.5 ~ 846.5 MHz; RX : 871.5 ~ 891.5 MHz
	LTE Band 7 TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz
	LTE Band 12 TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz
	GPS RX:1575.42 MHz
Max. Output Power:	802.11b: 8.83dBm
	802.11g: 8.77dBm
	802.11n(20M): 9.01dBm
	802.11n(40M): 8.26dBm
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): 13CH
	WIFI :802.11n(40M): 9CH
	Bluetooth: 79CH
	BLE: 40CH
	GPS:1CH
Port:	Power Port, Earphone Port, USB Port

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Adapter:  
Model: UD2AA50150  
Input: AC 100-240V; 50/60Hz; 250mA  
Output: DC 5.0V,1.5A  
Battery:  
Spec: 3000mAh/11.4wh+

Trade Name : Bmobile

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

FCC ID: ZSW-30-018



## 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 Non-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 3 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 0.5dBi for Bluetooth/BLE, the gain is 0.5dBi for WIFI.

A permanently attached PIFA antenna for GSM/PCS/LTE and UMTS, the gain is -1dBi for GSM850, 0dBi for PCS1900, 0dBi for UMTS-FDD Band V, 0.5dBi for UMTS-FDD Band IV, 0.5dBi for UMTS-FDD Band II, 0.5dBi for LTE Band 2, 0.5dBi for LTE Band 4, 0dBi for LTE Band 5, 0.8dBi for LTE Band 7, 0dBi for LTE Band 12.

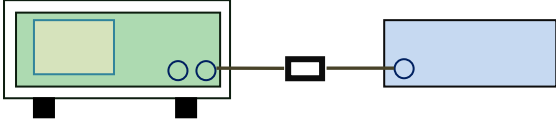
A permanently attached PIFA antenna for GPS, the gain is 1.8dBi for GPS.

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

**Result:** Compliance.

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

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	November 13, 2015
Tested By :	Winnie Zhang

Spec	Item	Requirement	Applicable
§ 15.247(a)(2) RSS Gen(4.6.1)	a)	6dB BW ≥ 500kHz; 20dB BW ≥ 500kHz;	<input checked="" type="checkbox"/>
	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> <ol style="list-style-type: none"> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the video bandwidth (VBW) ≥ 3 × 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> </ol> <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) ≥ 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

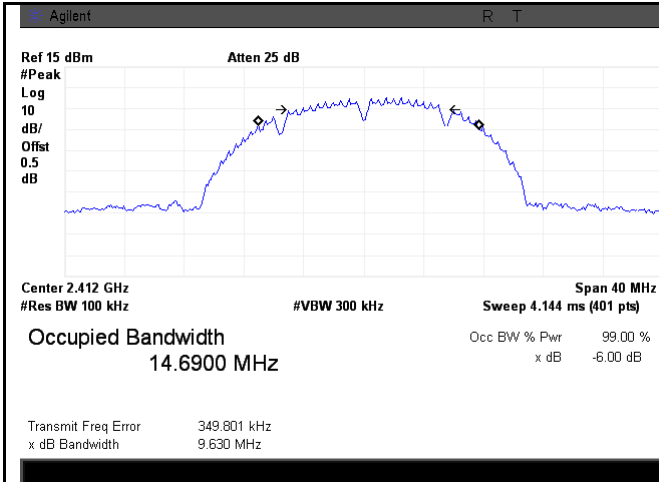
Test Plot  Yes (See below)  N/A

### Measurement result

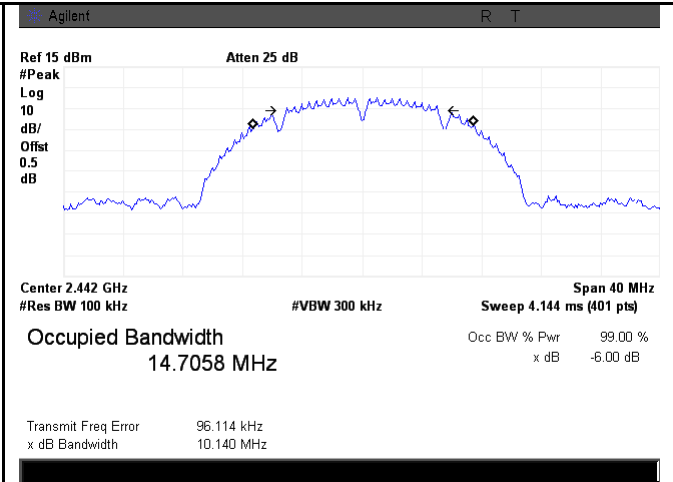
Test mode	CH	Freq (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	9.630	16.879	≥ 0.5
	Mid	2437	10.140	17.209	≥ 0.5
	High	2462	12.047	17.456	≥ 0.5
802.11g	Low	2412	15.827	19.341	≥ 0.5
	Mid	2437	16.468	19.317	≥ 0.5
	High	2462	16.584	19.658	≥ 0.5
802.11n (20M)	Low	2412	16.434	19.582	≥ 0.5
	Mid	2437	17.771	19.768	≥ 0.5
	High	2462	17.806	19.981	≥ 0.5
802.11n (40M)	Low	2422	35.133	39.330	≥ 0.5
	Mid	2437	36.030	40.084	≥ 0.5
	High	2452	28.919	39.319	≥ 0.5

## Test Plots

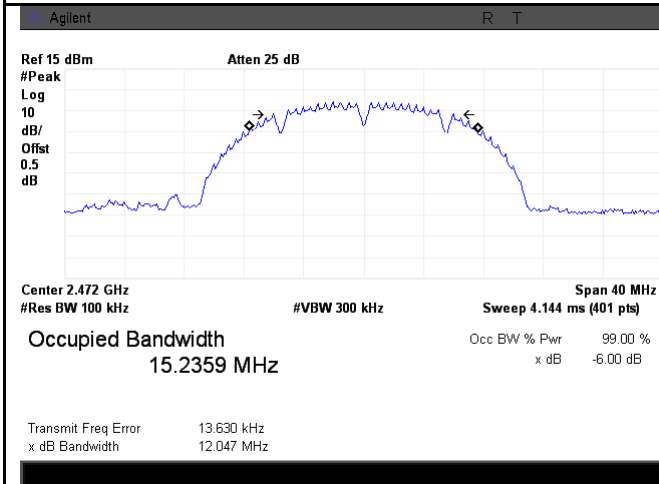
### 6dB Bandwidth measurement result



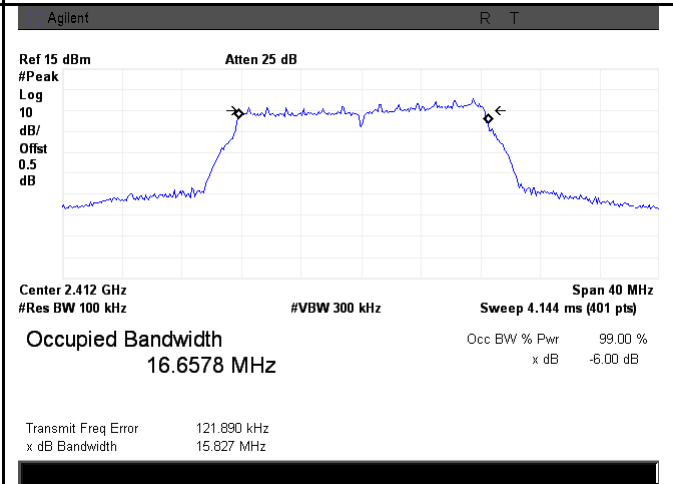
802.11b 6dB Bandwidth - Low CH 2412



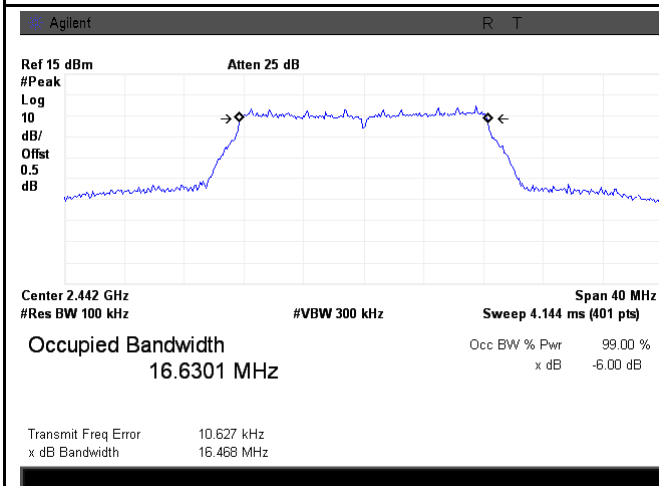
802.11b 6dB Bandwidth - Mid CH 2437



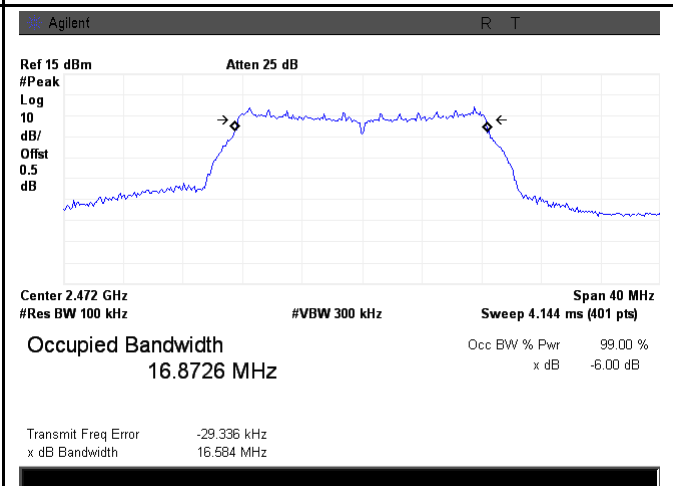
802.11b 6dB Bandwidth - High CH 2462



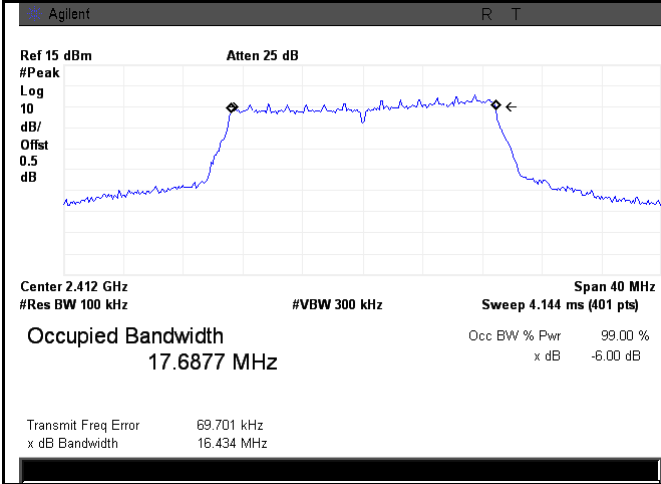
802.11g 6dB Bandwidth - Low CH 2412



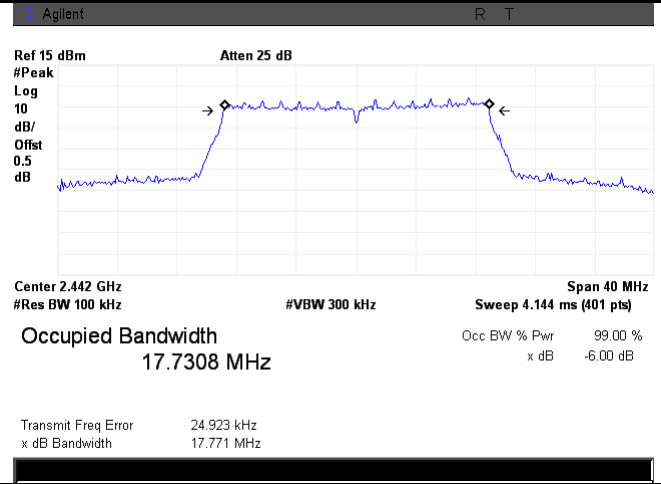
802.11g 6dB Bandwidth - Mid CH 2437



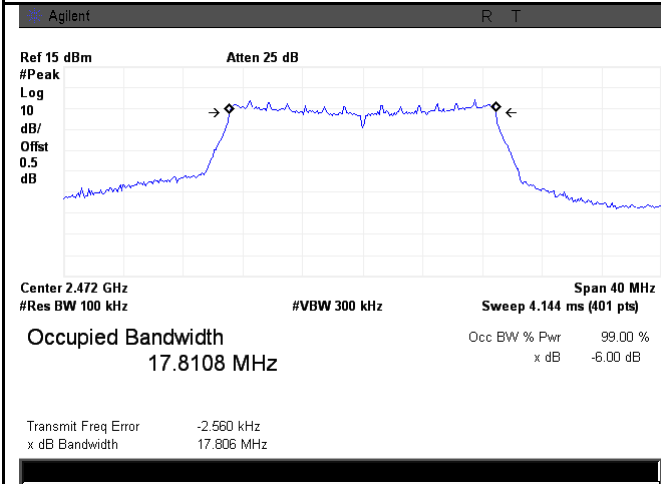
802.11g 6dB Bandwidth - High CH 2462



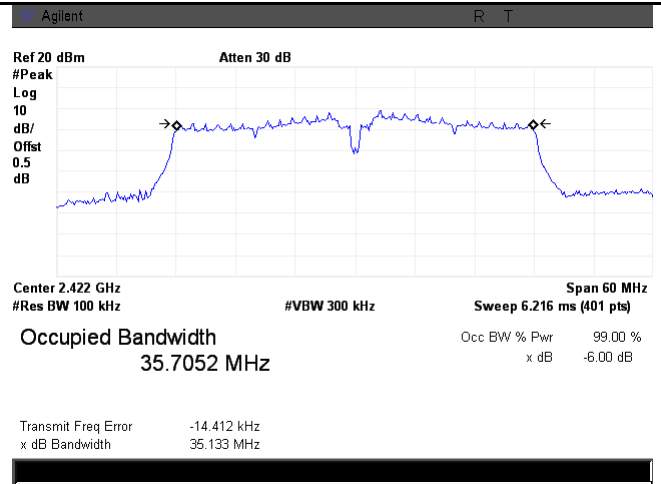
802.11n20 6dB Bandwidth - Low CH 2412



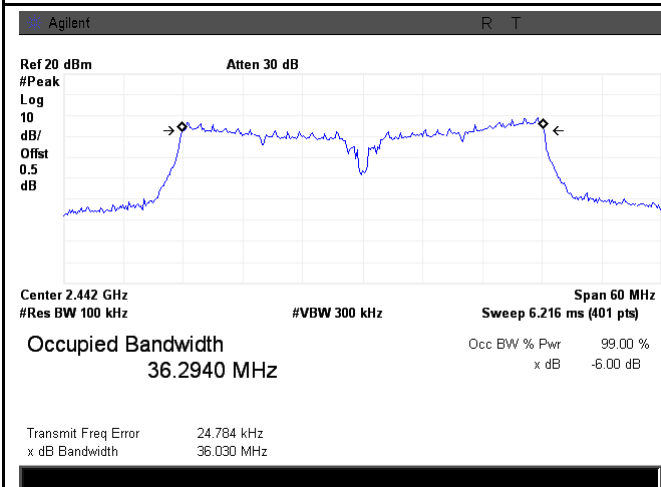
802.11n20 6dB Bandwidth - Mid CH 2437



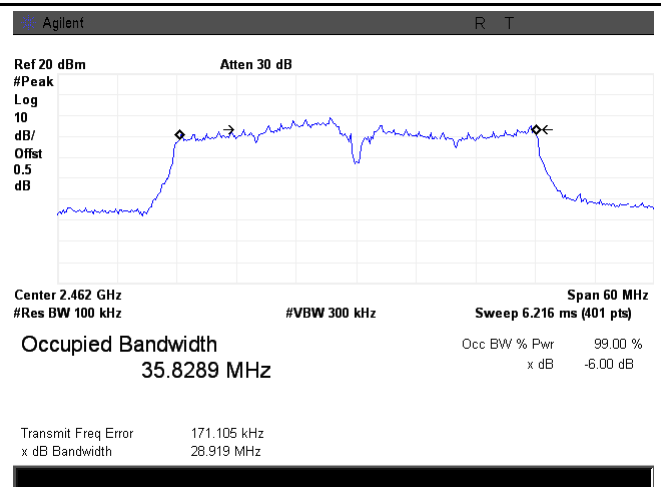
802.11n20 6dB Bandwidth - High CH 2462



802.11n40 6dB Bandwidth - Low CH 2422

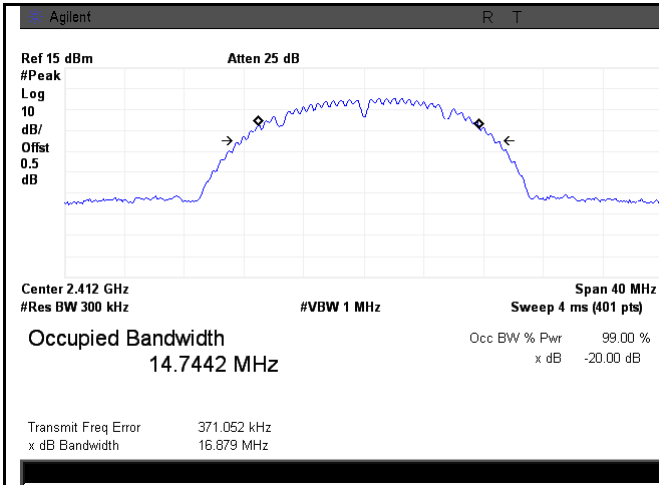


802.11n40 6dB Bandwidth - Mid CH 2437

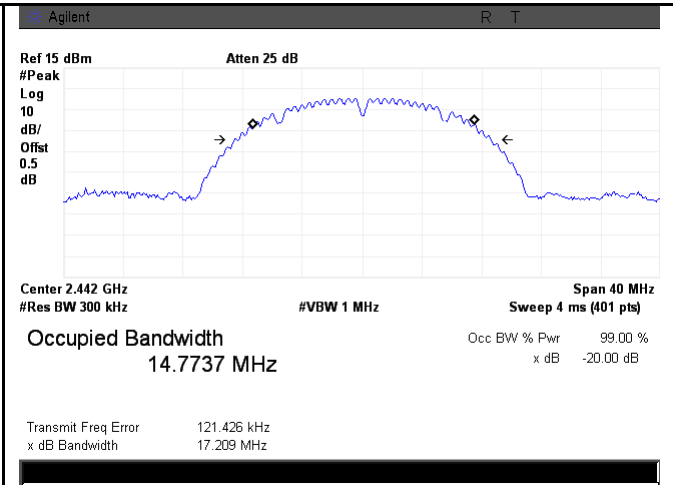


802.11n40 6dB Bandwidth - High CH 2452

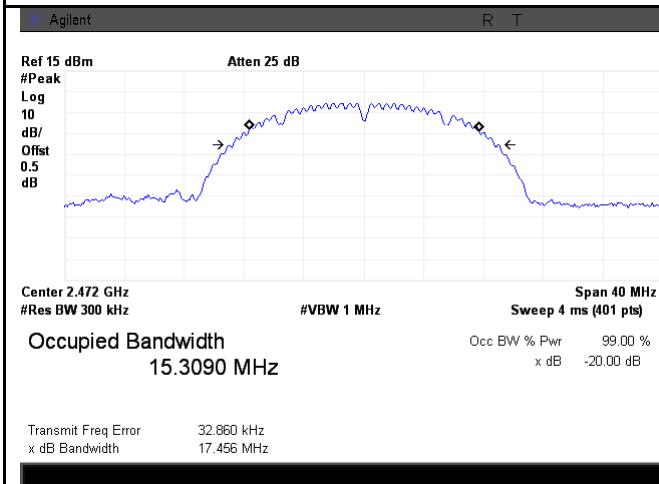
### 20 dB Bandwidth measurement result



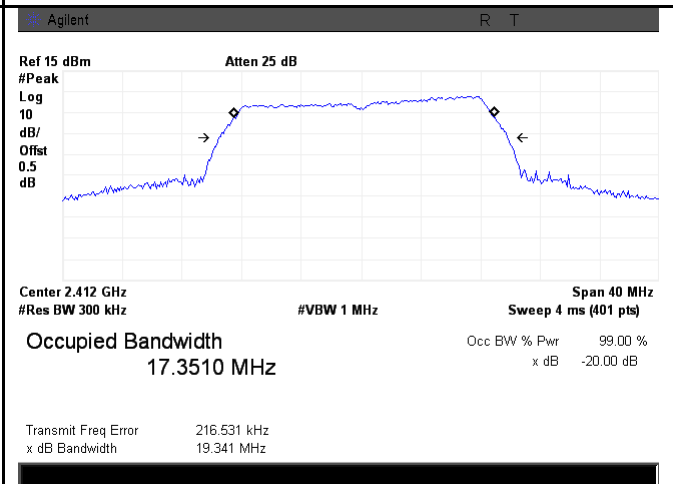
802.11b 20dB Bandwidth - Low CH 2412



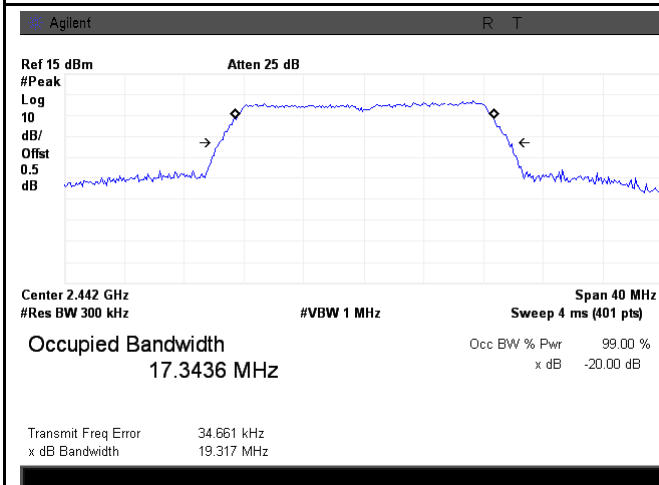
802.11b 20dB Bandwidth - Mid CH 2437



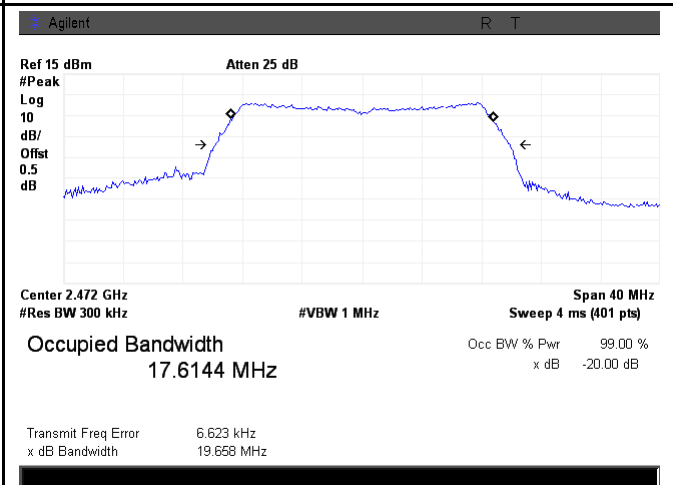
802.11b 20dB Bandwidth - High CH 2462



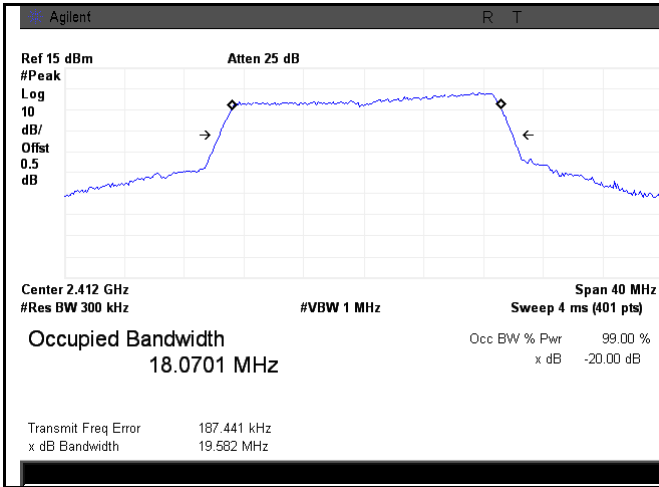
802.11g 20dB Bandwidth - Low CH 2412



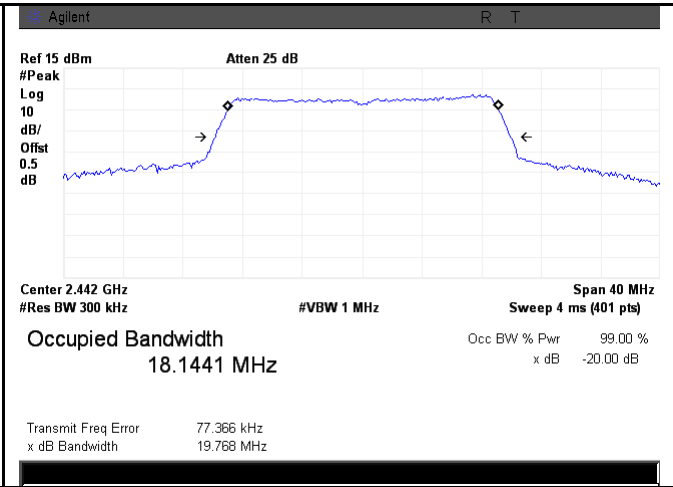
802.11g 20dB Bandwidth - Mid CH 2437



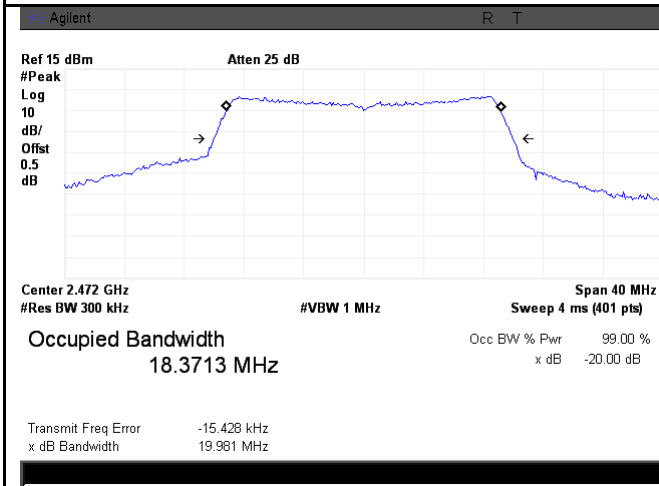
802.11g 20dB Bandwidth - High CH 2462



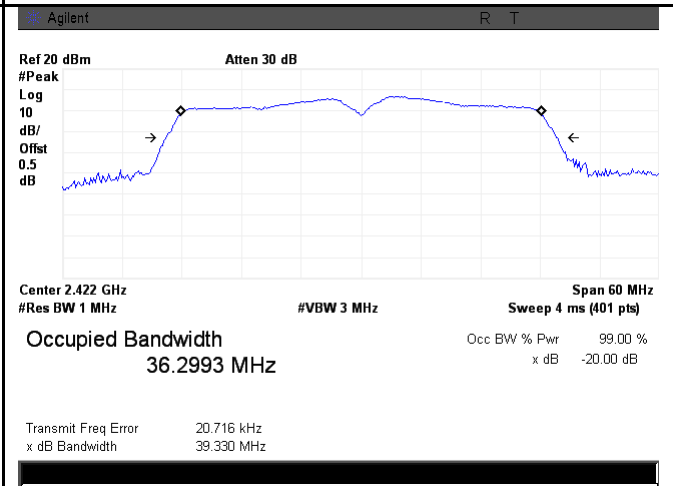
802.11n20 20dB Bandwidth - Low CH 2412



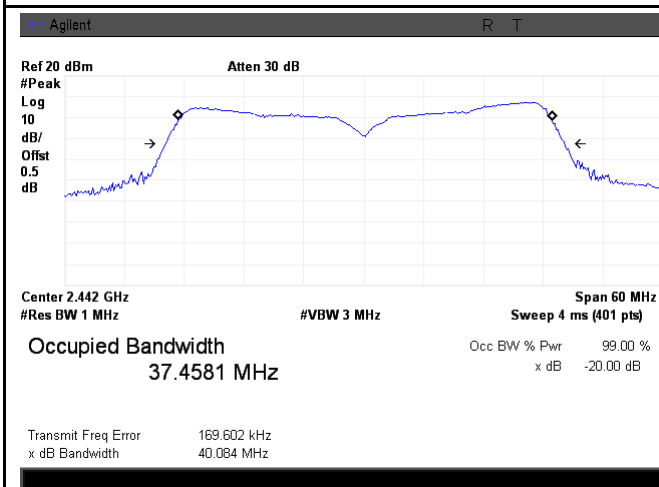
802.11n20 20dB Bandwidth - Mid CH 2437



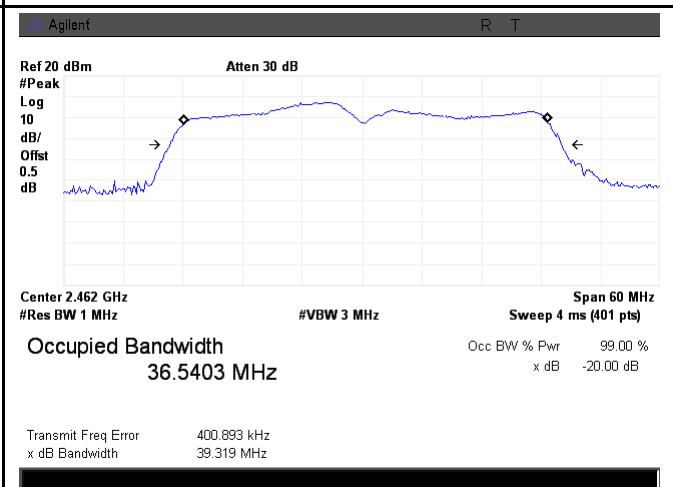
802.11n20 20dB Bandwidth - High CH 2462



802.11n40 20dB Bandwidth - Low CH 2422



802.11n40 20dB Bandwidth - Mid CH 2437



802.11n40 20dB Bandwidth - High CH 2452

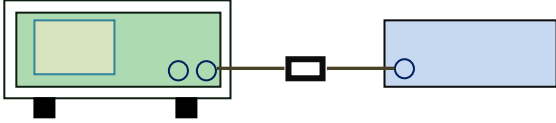


### 6.3 Maximum Output Power

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	November 13, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (2),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)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz: $\leq 1$ Watt	<input checked="" type="checkbox"/>

Test Setup	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
------------	--

Test Procedure	<p>558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method 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 3 \times</math> RBW.</li> <li>- d) Number of points in sweep <math>\geq 2 \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; 98</math> %, use a sweep trigger with the level set to enable</li> </ul>
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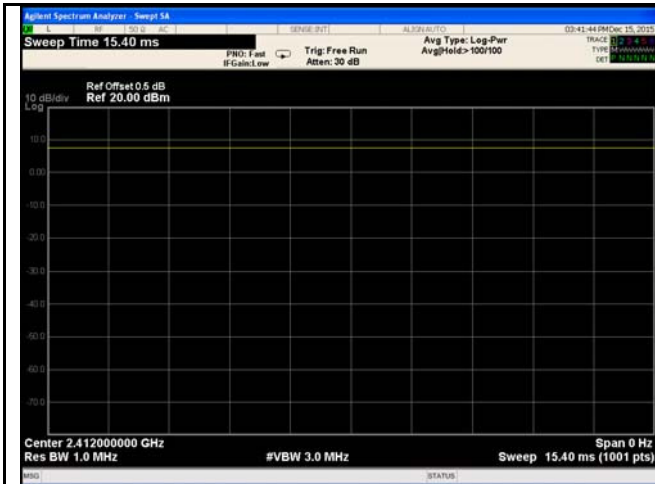
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	<p>triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle <math>\geq 98\%</math>, 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

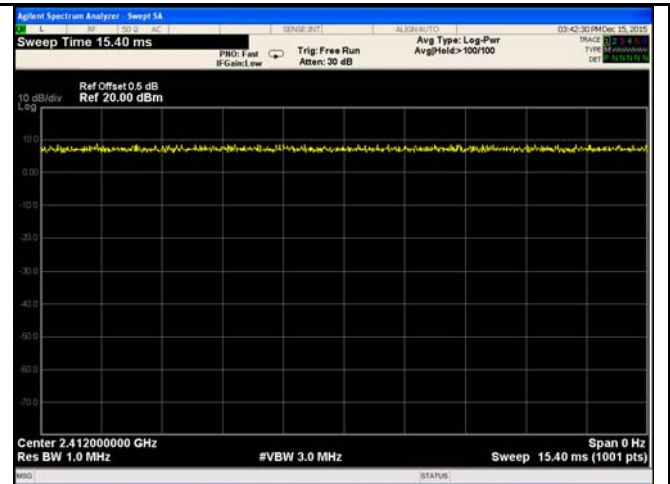
Test Data     Yes                       N/A  
 Test Plot     Yes (See below)             N/A

**Duty Cycle:**

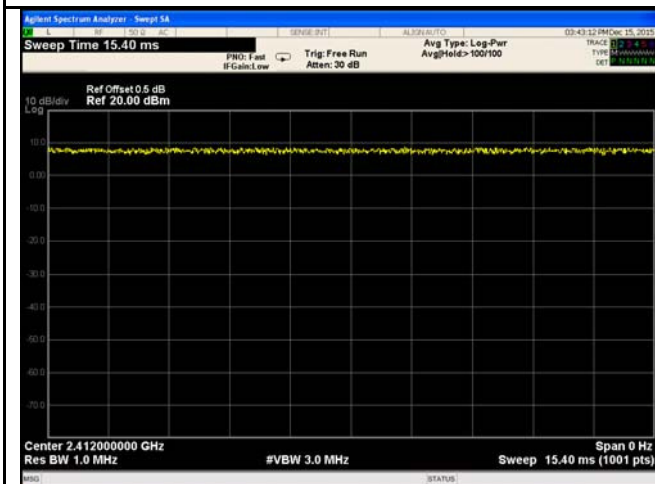
The EUT have set to transmit at 100% duty cycle. Please refer to the following plots:



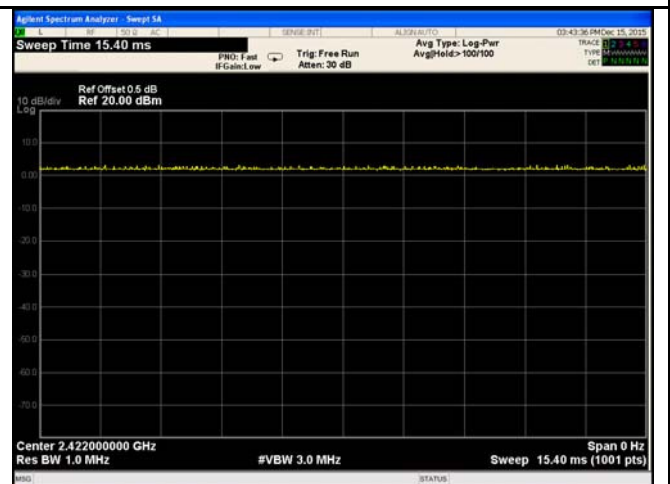
802.11b



802.11g



802.11n20



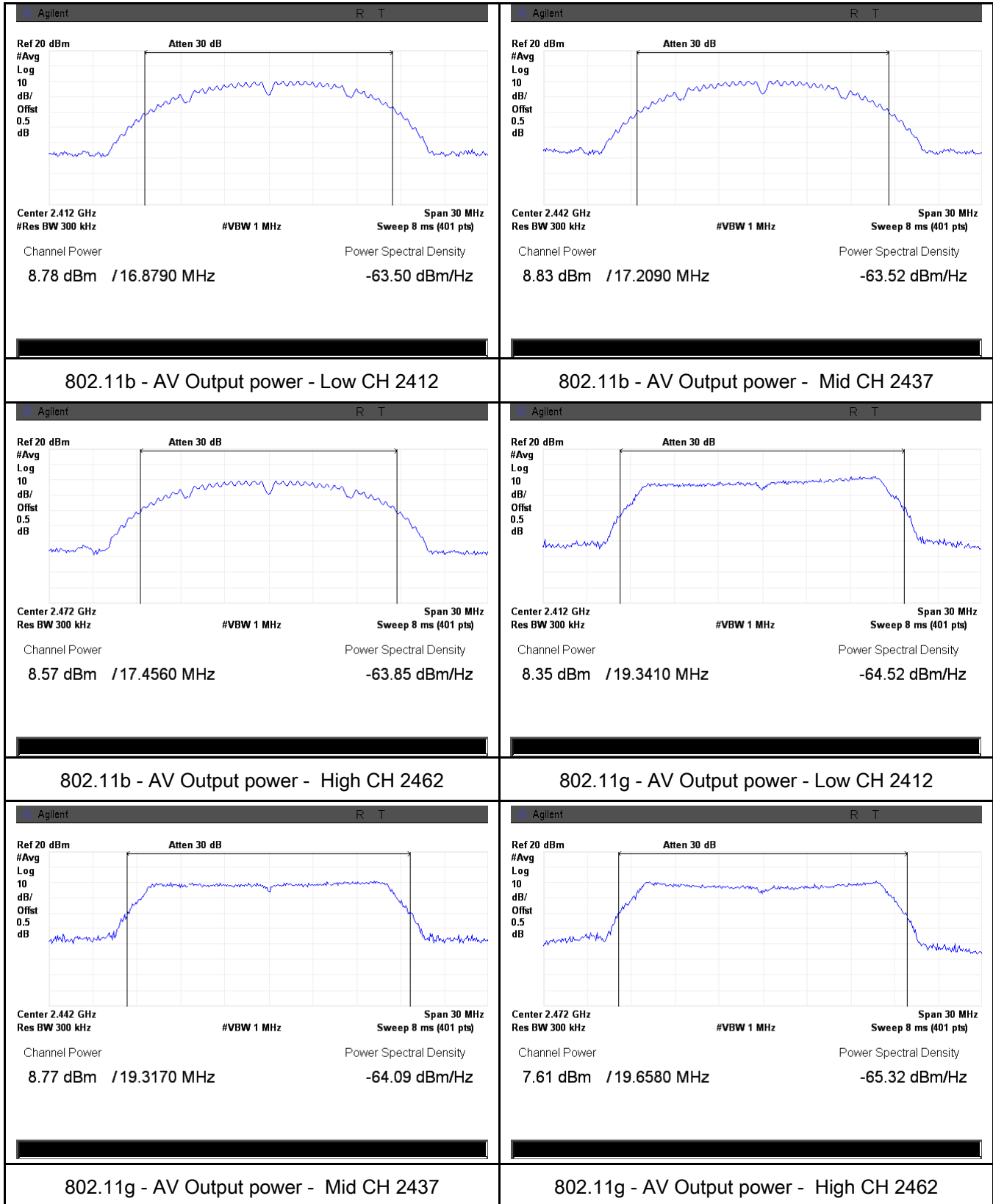
802.11n40

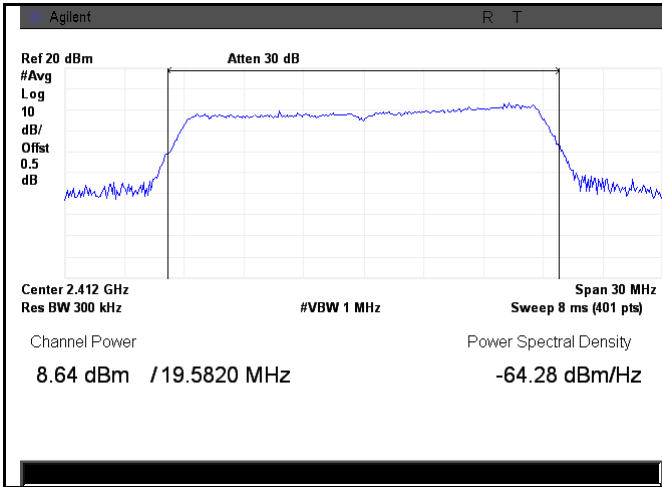
**Output Power measurement result**

Type	Test mode	CH	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output power	802.11b	Low	2412	8.78	30	Pass
		Mid	2437	<b>8.83</b>	30	Pass
		High	2462	8.57	30	Pass
	802.11g	Low	2412	8.35	30	Pass
		Mid	2437	<b>8.77</b>	30	Pass
		High	2462	7.61	30	Pass
	802.11n (20M)	Low	2412	8.64	30	Pass
		Mid	2437	8.70	30	Pass
		High	2462	<b>9.01</b>	30	Pass
	802.11n (40M)	Low	2422	<b>8.26</b>	30	Pass
		Mid	2437	7.92	30	Pass
		High	2452	7.73	30	Pass

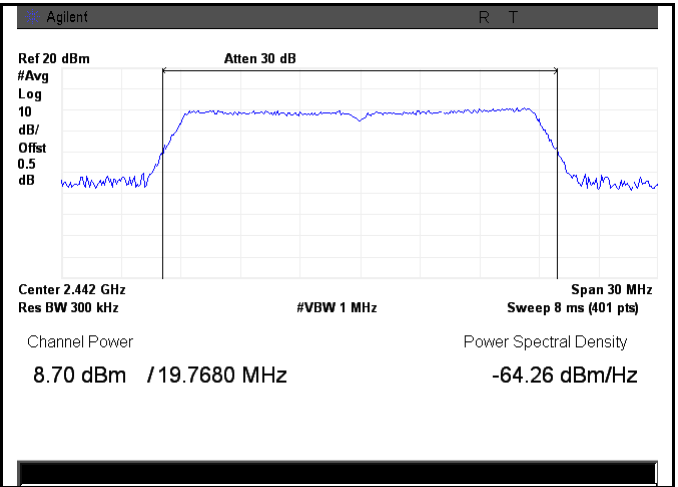
## Test Plots

### The Average Power

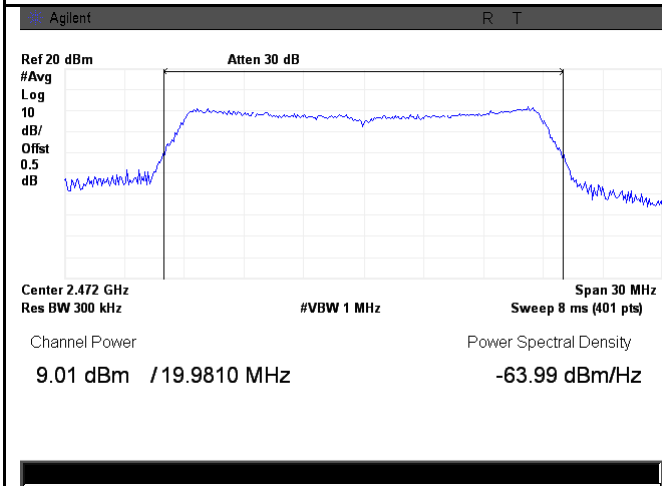




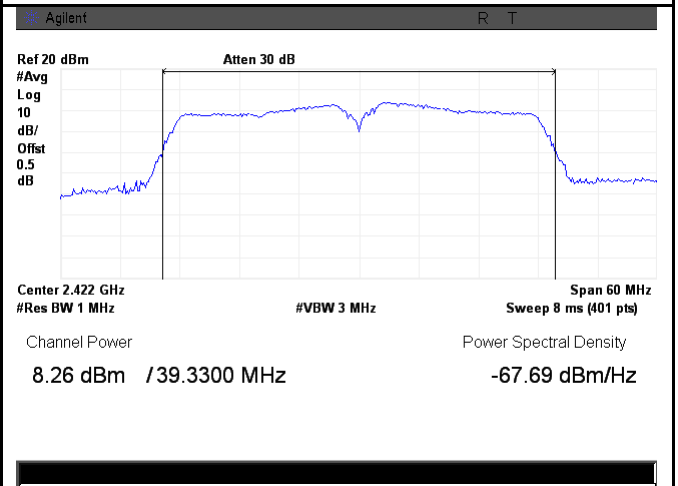
802.11n20 - AV Output power - Low CH 2412



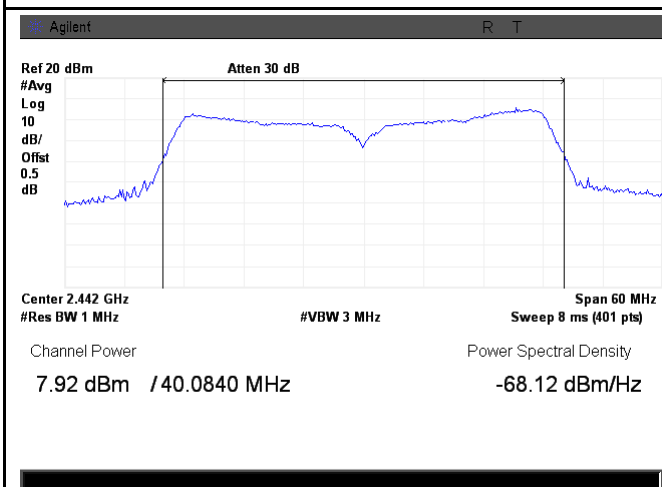
802.11n20 - AV Output power - Mid CH 2437



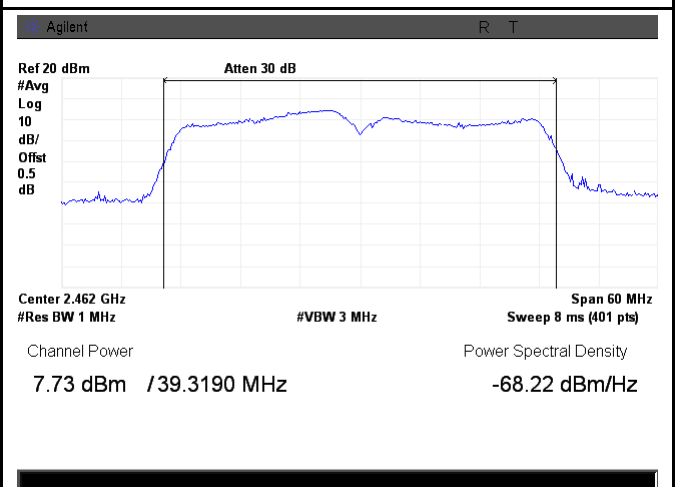
802.11n20 - AV Output power - High CH 2462



802.11n40 - AV Output power - Low CH 2422



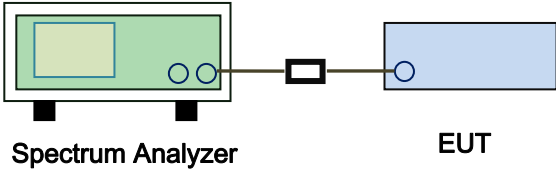
802.11n40 - AV Output power - Mid CH 2437



802.11n40 - AV Output power - High CH 2452

## 6.4 Power Spectral Density

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	November 13, 2015
Tested By :	Winnie Zhang

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;"> <span style="margin-right: 100px;">Spectrum Analyzer</span> <span>EUT</span> </p>		
Test Procedure	558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power spectral density measurement procedure <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

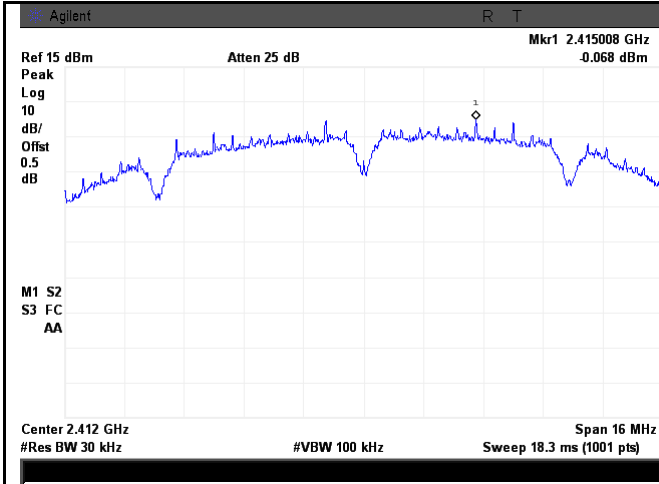
**Power Spectral Density measurement result**

Type	Test mode	CH	Freq (MHz)	Reading	Factor	Result (dBm)	Limit (dBm)	Result
				(dBm)	(dB)			
PSD	802.11b	Low	2412	-0.068	-10	-10.068	8	Pass
		Mid	2437	-0.004	-10	-10.004	8	Pass
		High	2462	-0.796	-10	-10.796	8	Pass
	802.11g	Low	2412	-3.481	-10	-13.481	8	Pass
		Mid	2437	-4.703	-10	-14.703	8	Pass
		High	2462	-5.054	-10	-15.054	8	Pass
	802.11n (20M)	Low	2412	-3.727	-10	-13.727	8	Pass
		Mid	2437	-5.593	-10	-15.593	8	Pass
		High	2462	-5.364	-10	-15.364	8	Pass
	802.11n (40M)	Low	2422	-1.751	-15.2	-16.951	8	Pass
		Mid	2437	-1.484	-15.2	-16.684	8	Pass
		High	2452	-1.251	-15.2	-16.451	8	Pass

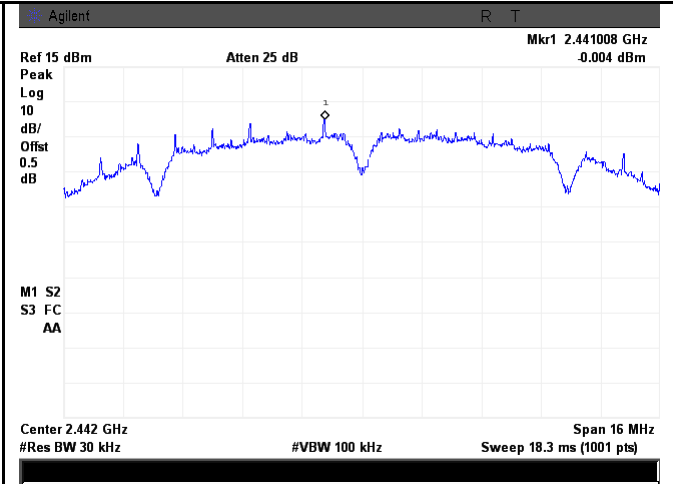


**Test Plots**

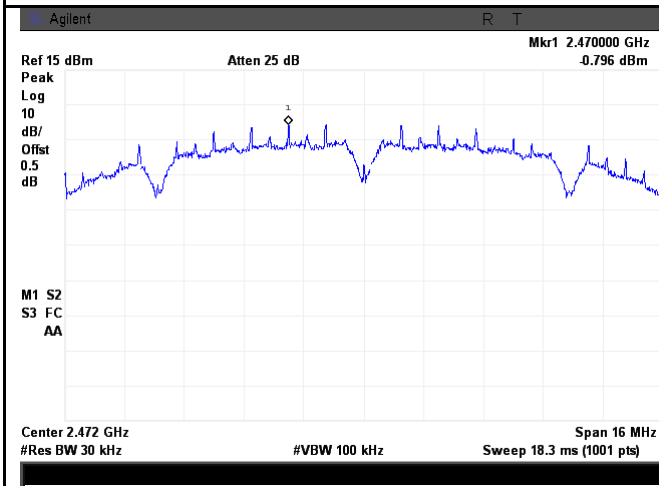
**Power Spectral Density measurement result**



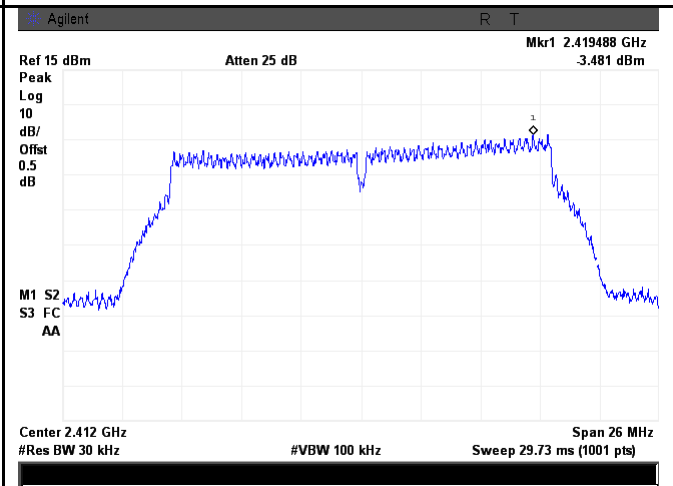
PSD - Low CH 2412 - 802.11b



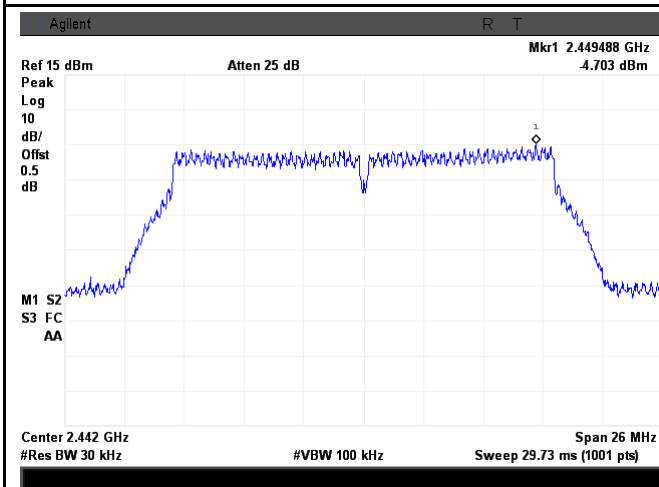
PSD - Mid CH 2437 - 802.11b



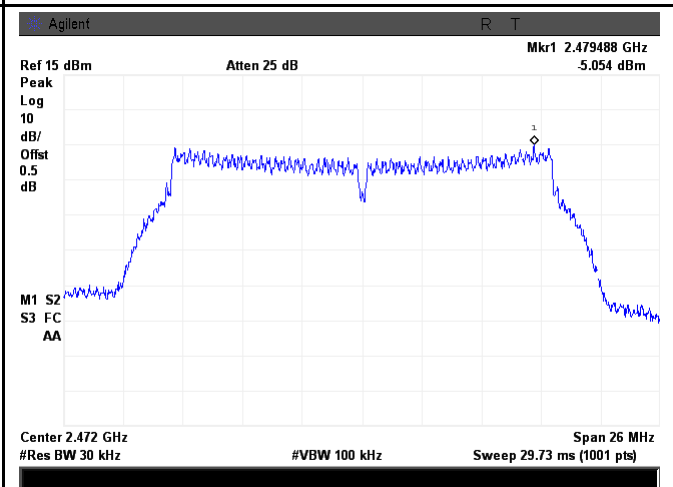
PSD - High CH 2462 - 802.11b



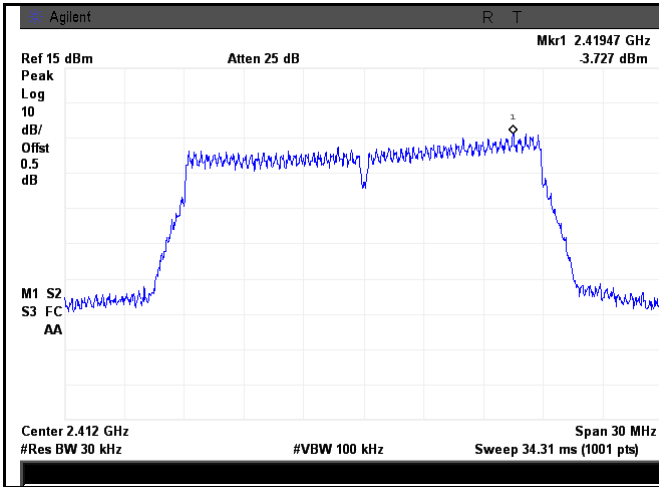
PSD - Low CH 2412 - 802.11g



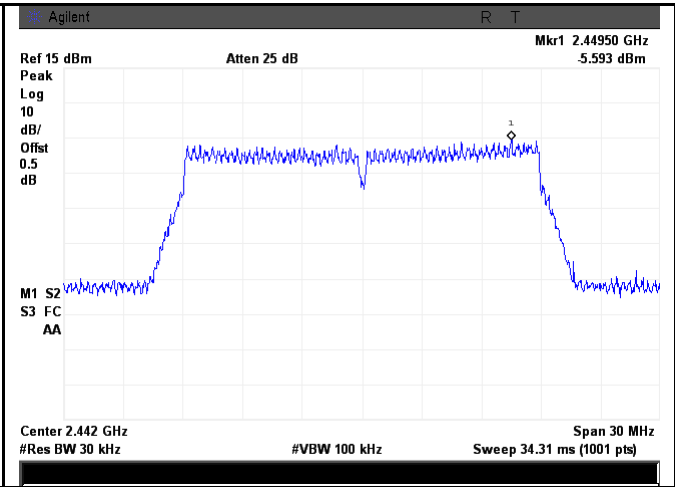
PSD - Mid CH 2437 - 802.11g



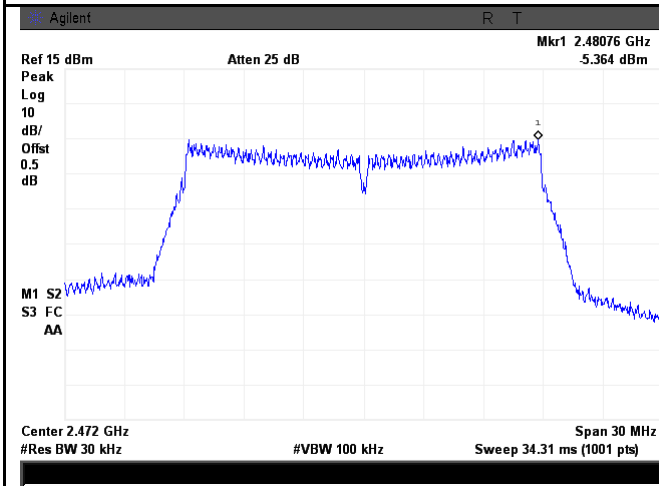
PSD - High CH 2462 - 802.11g



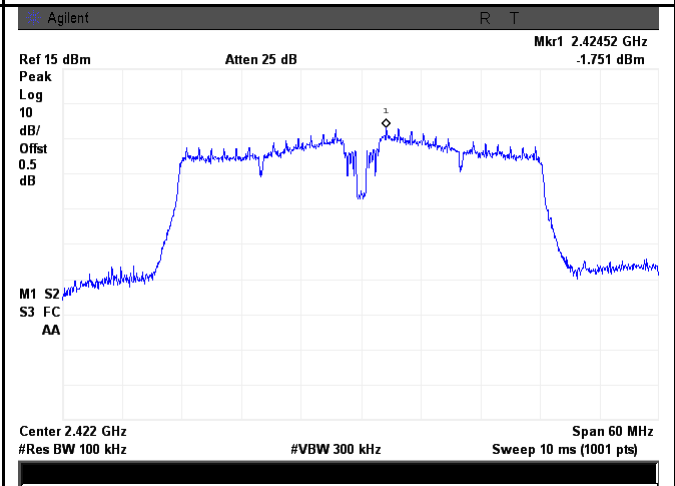
PSD - Low CH 2412 - 802.11n20



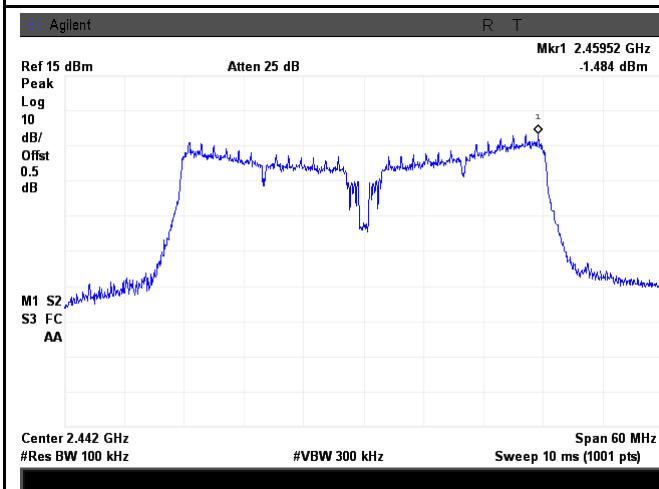
PSD - Mid CH 2437 - 802.11n20



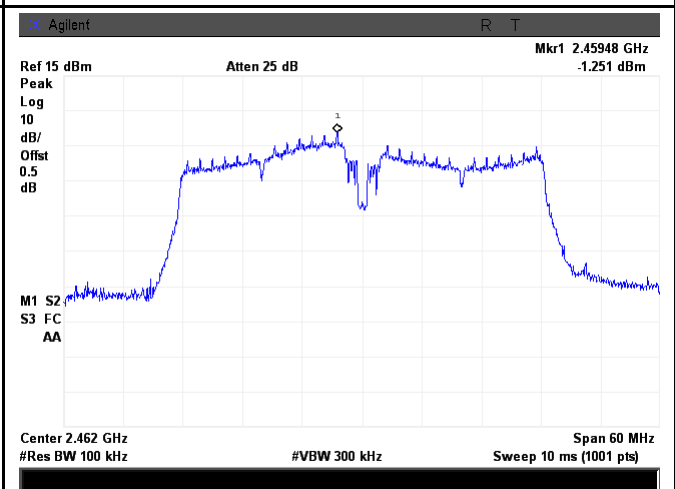
PSD - High CH 2462 - 802.11n20



PSD - Low CH 2422 - 802.11n40



PSD - Mid CH 2437 - 802.11n40



PSD - High CH 2462 - 802.11n40

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

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	November 18, 2015
Tested By :	Winnie Zhang

### 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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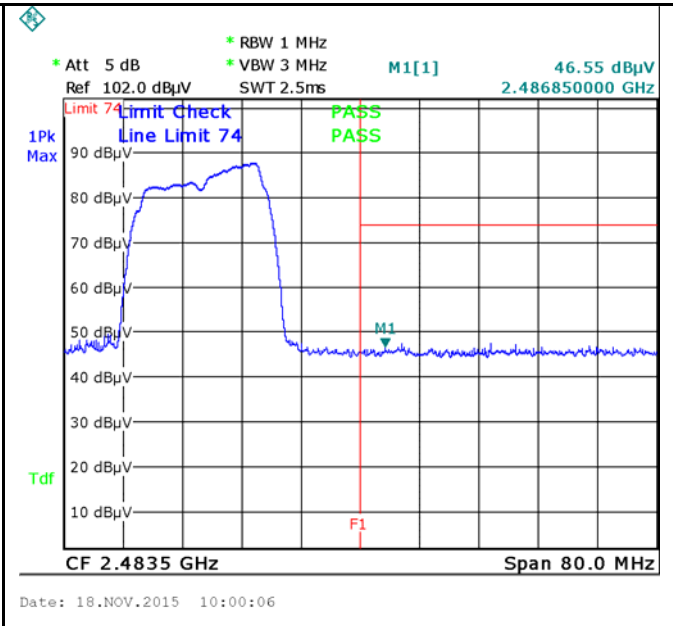
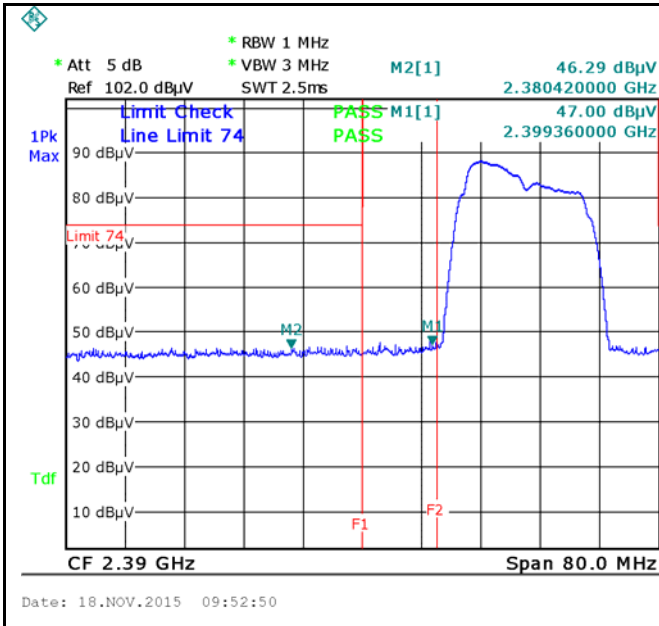
	<ul style="list-style-type: none"> <li>- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below:           <ul style="list-style-type: none"> <li>a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi 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      * VBW 3 MHz      * Att 5 dB      Ref 102.0 dBµV      SWT 2.5ms</p> <p>M1[1] 47.04 dBµV      2.399520000 GHz</p> <p>Limit Check      Line Limit 74      PASS M2[1]      PASS      47.67 dBµV      2.380420000 GHz</p> <p>1Pk Max      90 dBµV      80 dBµV      70 dBµV      60 dBµV      50 dBµV      40 dBµV      30 dBµV      20 dBµV      10 dBµV</p> <p>Tdf</p> <p>CF 2.39 GHz Span 80.0 MHz</p> <p>Date: 18.NOV.2015 09:51:13</p>	<p>* RBW 1 MHz      * VBW 3 MHz      * Att 5 dB      Ref 102.0 dBµV      SWT 2.5ms</p> <p>M1[1] 46.49 dBµV      2.484460000 GHz</p> <p>Limit Check      Line Limit 74      PASS      PASS</p> <p>1Pk Max      90 dBµV      80 dBµV      70 dBµV      60 dBµV      50 dBµV      40 dBµV      30 dBµV      20 dBµV      10 dBµV</p> <p>Tdf</p> <p>CF 2.4835 GHz Span 80.0 MHz</p> <p>Date: 18.NOV.2015 09:58:47</p>
<p>Band Edge, Left Side (Peak) - 802.11b</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Peak) - 802.11b</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) - 802.11b</p>	<p>Band Edge, Right Side (Average) - 802.11b</p>



Band Edge, Left Side (Peak) - 802.11g  
**Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz**

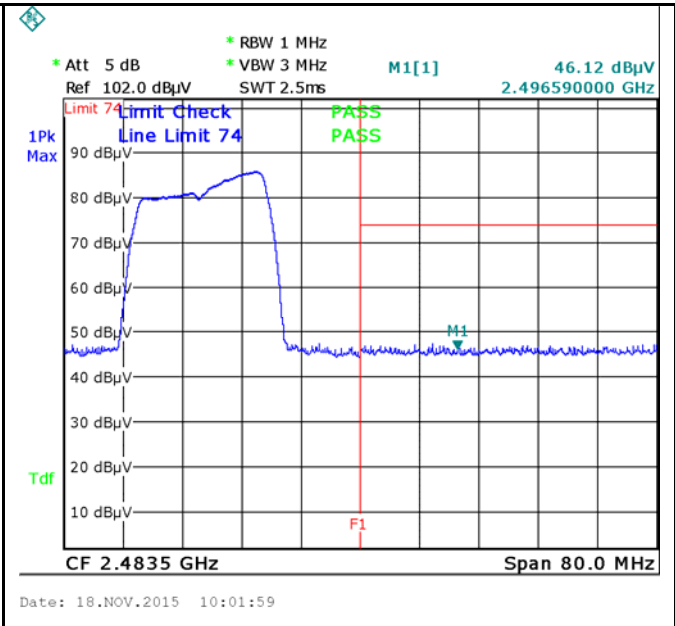
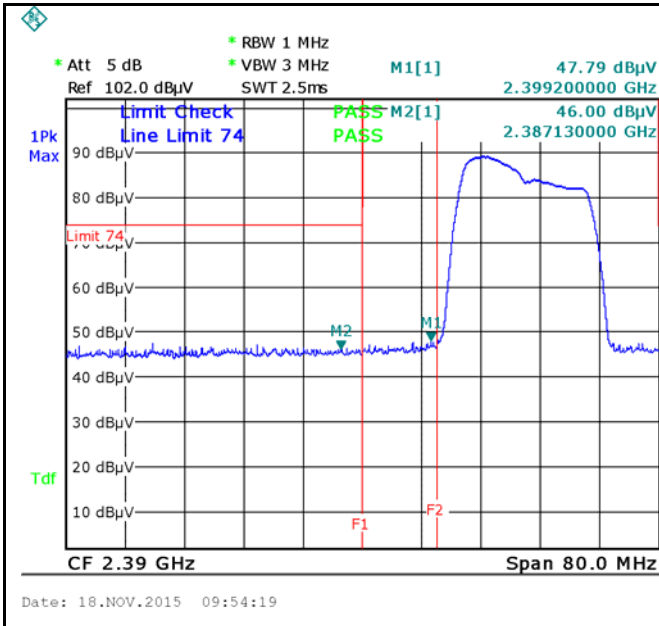
Band Edge, Right Side (Peak) - 802.11g  
**Note: F1 is frequency 2483.5MHz**

Note: (no need if PK value less than the AV limit)

Note: (no need if PK value less than the AV limit)

Band Edge, Left Side (Average) - 802.11g  
**Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz**

Band Edge, Right Side (Average) - 802.11g  
**Note: F1 is frequency 2483.5MHz**



Band Edge, Left Side (Peak) - 802.11n20  
**Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz**

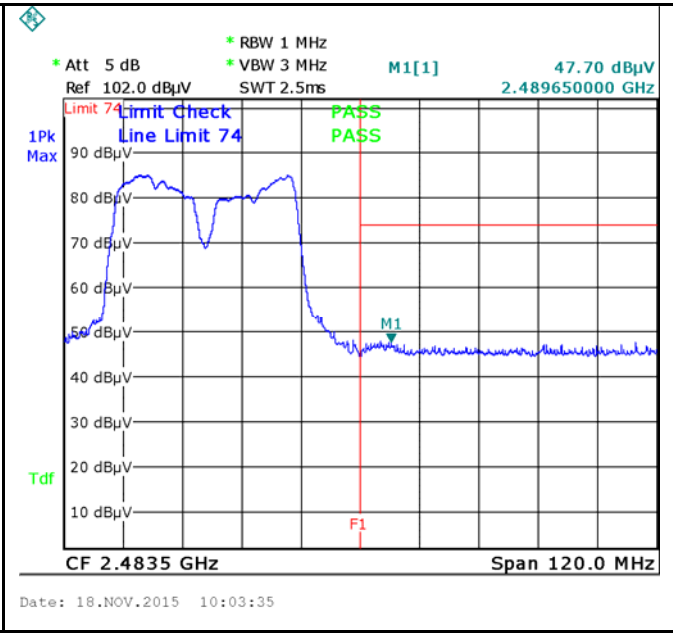
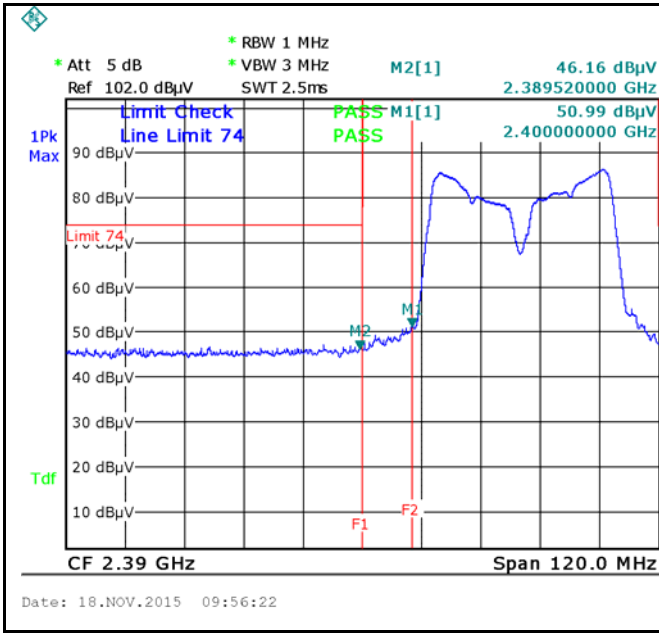
Band Edge, Right Side (Peak) - 802.11n20  
**Note: F1 is frequency 2483.5MHz**

Note: (no need if PK value less than the AV limit)

Note: (no need if PK value less than the AV limit)

Band Edge, Left Side (Average) - 802.11n20  
**Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz**

Band Edge, Right Side (Average) - 802.11n20  
**Note: F1 is frequency 2483.5MHz**



Band Edge, Left Side (Peak) - 802.11n40  
**Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz**

Band Edge, Right Side (Peak) - 802.11n40  
**Note: F1 is frequency 2483.5MHz**

Note: (no need if PK value less than the AV limit)

Note: (no need if PK value less than the AV limit)

Band Edge, Left Side (Average) - 802.11n40  
**Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz**

Band Edge, Right Side (Average) - 802.11n40  
**Note: F1 is frequency 2483.5MHz**

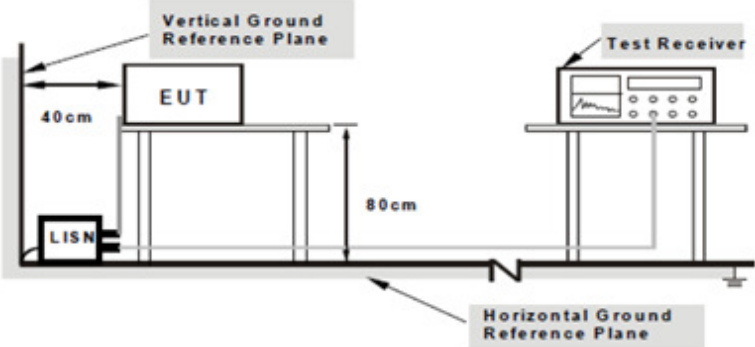


## 6.6 AC Power Line Conducted Emissions

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	November 18, 2015
Tested By :	Winnie Zhang

### Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.207, RSS210 (A8.1)	a)	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 [μ] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.	<input checked="" type="checkbox"/>														
		<table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBμV)</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 (dBμV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50
		Frequency ranges (MHz)			Limit (dBμV)												
				QP	Average												
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	 <p style="text-align: center;">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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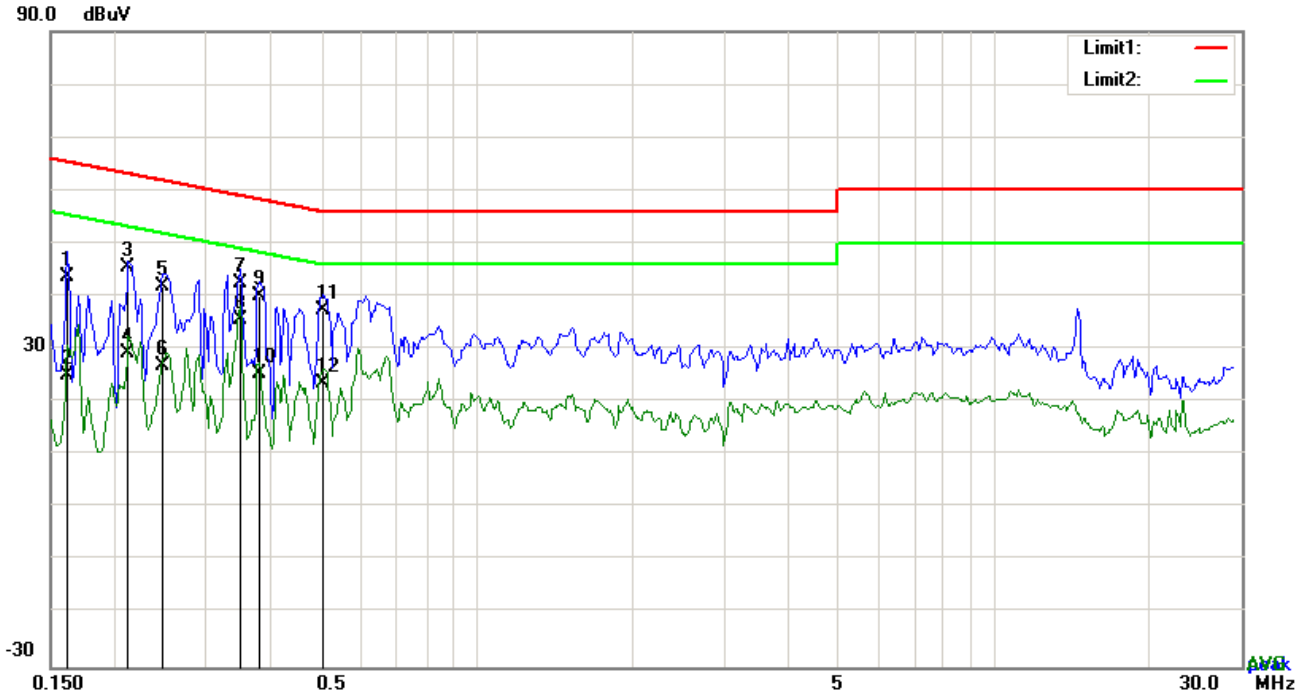
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	<p>coaxial cable.</p> <ol style="list-style-type: none"> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>6. 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.</li> <li>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.</li> <li>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</li> </ol>
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

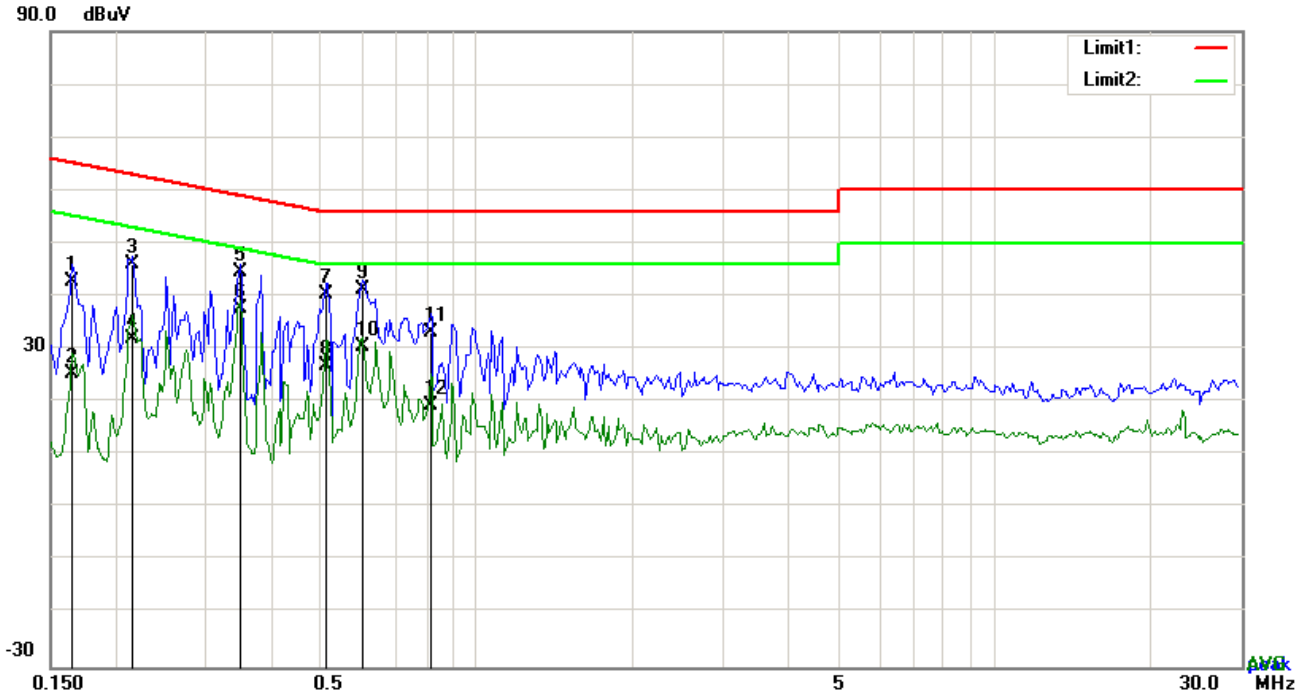


**Test Data**

**Phase Line Plot at 120Vac, 60Hz**

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	L1	0.1617	33.50	QP	10.03	43.53	65.38	-21.85
2	L1	0.1617	14.88	AVG	10.03	24.91	55.38	-30.47
3	L1	0.2124	35.39	QP	10.03	45.42	63.11	-17.69
4	L1	0.2124	19.32	AVG	10.03	29.35	53.11	-23.76
5	L1	0.2475	31.89	QP	10.03	41.92	61.84	-19.92
6	L1	0.2475	16.87	AVG	10.03	26.90	51.84	-24.94
7	L1	0.3489	32.41	QP	10.03	42.44	58.99	-16.55
8	L1	0.3489	25.47	AVG	10.03	35.50	48.99	-13.49
9	L1	0.3801	30.08	QP	10.03	40.11	58.28	-18.17
10	L1	0.3801	15.42	AVG	10.03	25.45	48.28	-22.83
11	L1	0.5049	27.27	QP	10.03	37.30	56.00	-18.70
12	L1	0.5049	13.40	AVG	10.03	23.43	46.00	-22.57

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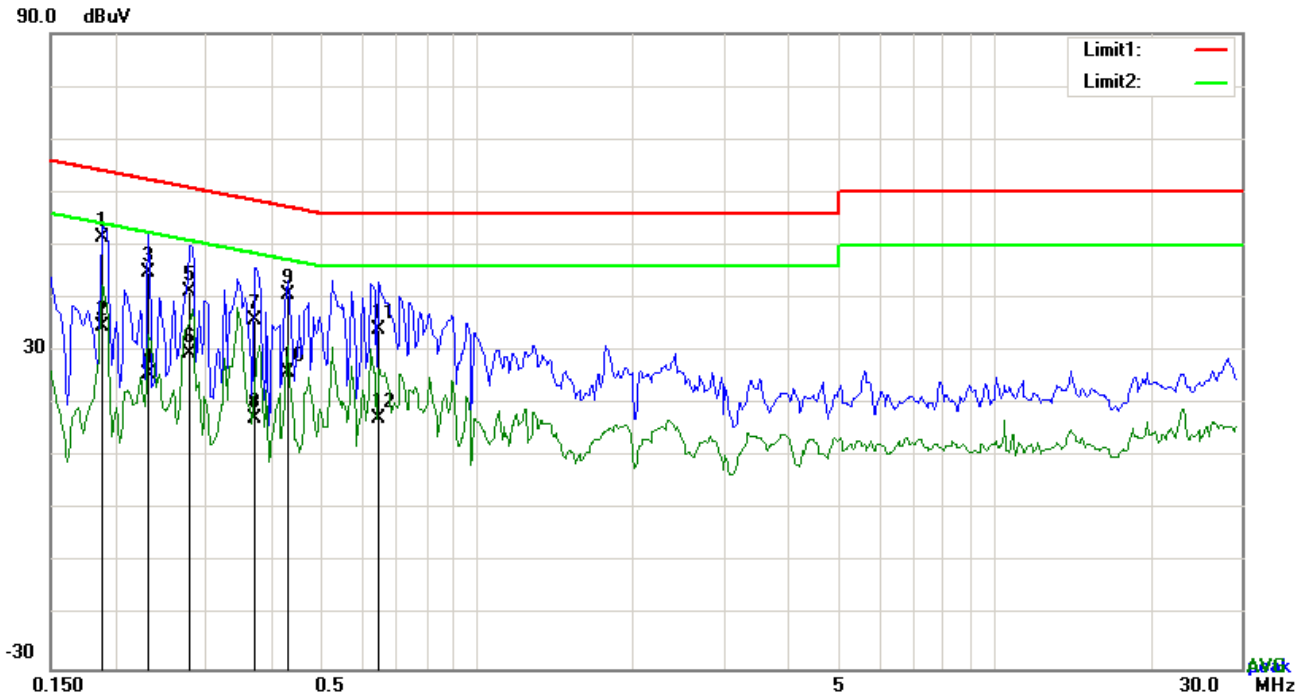


**Test Data**

**Phase Neutral Plot at 120Vac, 60Hz**

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	N	0.1656	32.59	QP	10.02	42.61	65.18	-22.57
2	N	0.1656	15.33	AVG	10.02	25.35	55.18	-29.83
3	N	0.2163	36.00	QP	10.02	46.02	62.96	-16.94
4	N	0.2163	22.00	AVG	10.02	32.02	52.96	-20.94
5	N	0.3489	34.54	QP	10.02	44.56	58.99	-14.43
6	N	0.3489	27.67	AVG	10.02	37.69	48.99	-11.30
7	N	0.5127	30.35	QP	10.02	40.37	56.00	-15.63
8	N	0.5127	16.82	AVG	10.02	26.84	46.00	-19.16
9	N	0.6024	31.20	QP	10.02	41.22	56.00	-14.78
10	N	0.6024	20.44	AVG	10.02	30.46	46.00	-15.54
11	N	0.8169	23.18	QP	10.03	33.21	56.00	-22.79
12	N	0.8169	9.33	AVG	10.03	19.36	46.00	-26.64

**Test Mode:** Transmitting Mode

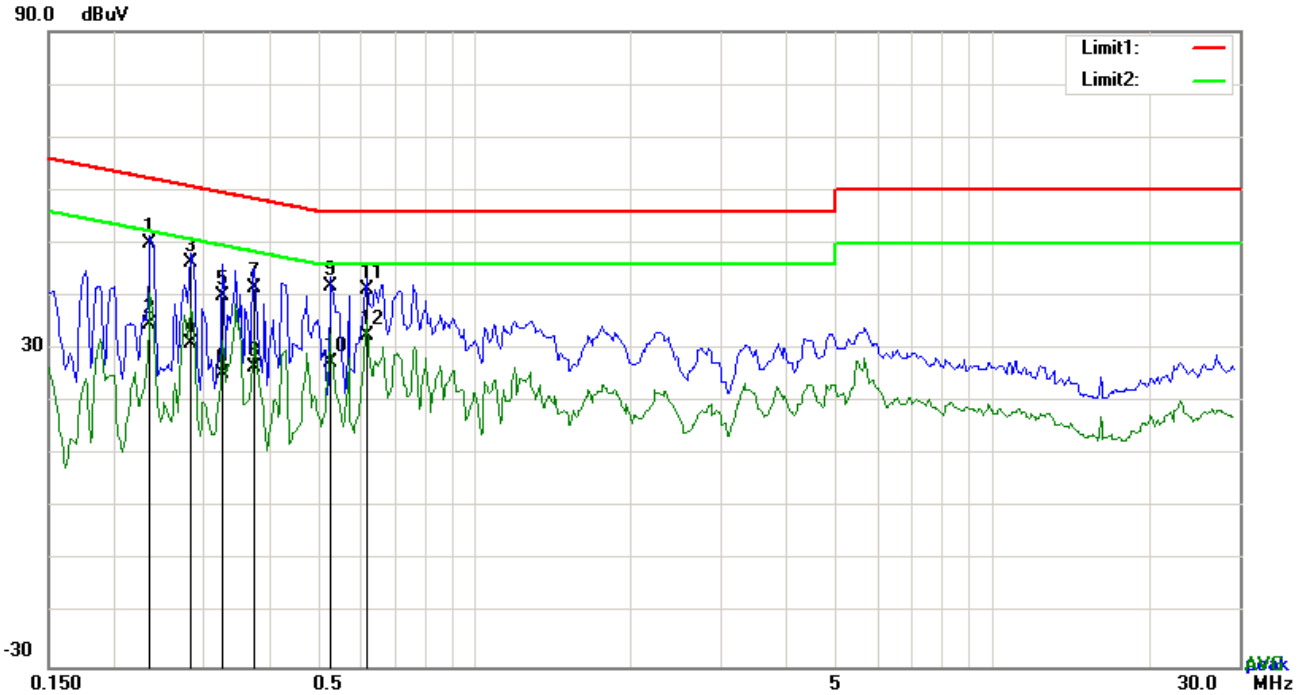


**Test Data**

**Phase Line Plot at 240Vac, 60Hz**

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1890	41.50	QP	10.03	51.53	64.08	-12.55
2	L1	0.1890	24.63	AVG	10.03	34.66	54.08	-19.42
3	L1	0.2319	34.75	QP	10.03	44.78	62.38	-17.60
4	L1	0.2319	15.63	AVG	10.03	25.66	52.38	-26.72
5	L1	0.2787	31.28	QP	10.03	41.31	60.85	-19.54
6	L1	0.2787	19.61	AVG	10.03	29.64	50.85	-21.21
7	L1	0.3723	25.72	QP	10.03	35.75	58.45	-22.70
8	L1	0.3723	7.31	AVG	10.03	17.34	48.45	-31.11
9	L1	0.4308	30.77	QP	10.03	40.80	57.24	-16.44
10	L1	0.4308	16.06	AVG	10.03	26.09	47.24	-21.15
11	L1	0.6453	24.00	QP	10.03	34.03	56.00	-21.97
12	L1	0.6453	7.22	AVG	10.03	17.25	46.00	-28.75

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



**Test Data**

**Phase Neutral Plot at 240Vac, 60Hz**

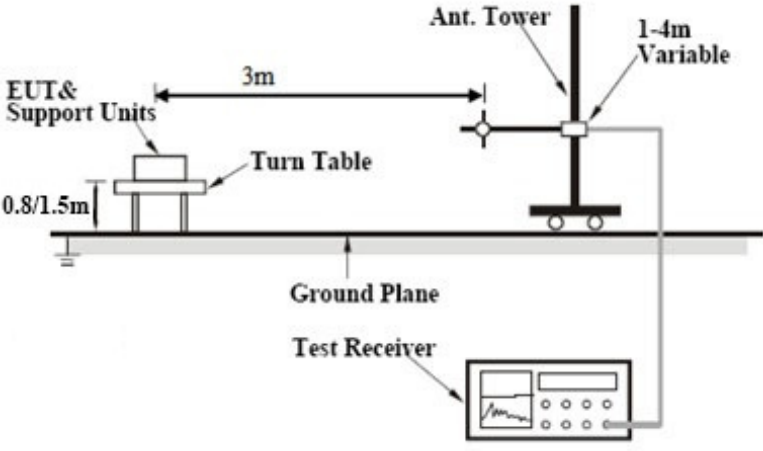
No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)
1	N	0.2358	39.86	QP	10.02	49.88	62.24	-12.36
2	N	0.2358	24.54	AVG	10.02	34.56	52.24	-17.68
3	N	0.2826	36.18	QP	10.02	46.20	60.74	-14.54
4	N	0.2826	20.90	AVG	10.02	30.92	50.74	-19.82
5	N	0.3255	30.06	QP	10.02	40.08	59.57	-19.49
6	N	0.3255	15.20	AVG	10.02	25.22	49.57	-24.35
7	N	0.3762	31.66	QP	10.02	41.68	58.36	-16.68
8	N	0.3762	16.65	AVG	10.02	26.67	48.36	-21.69
9	N	0.5244	31.79	QP	10.02	41.81	56.00	-14.19
10	N	0.5244	17.49	AVG	10.02	27.51	46.00	-18.49
11	N	0.6180	31.14	QP	10.02	41.16	56.00	-14.84
12	N	0.6180	22.61	AVG	10.02	32.63	46.00	-13.37

## 6.7 Radiated Spurious Emissions

Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	November 18, 2015
Tested By :	Winnie Zhang

### 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 (µV/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 (µV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	<input checked="" type="checkbox"/>
	Frequency range (MHz)	Field Strength (µV/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)	<p>or restricted band, emission must also comply with the radiated emission limits specified in 15.209</p>	<input checked="" type="checkbox"/>											

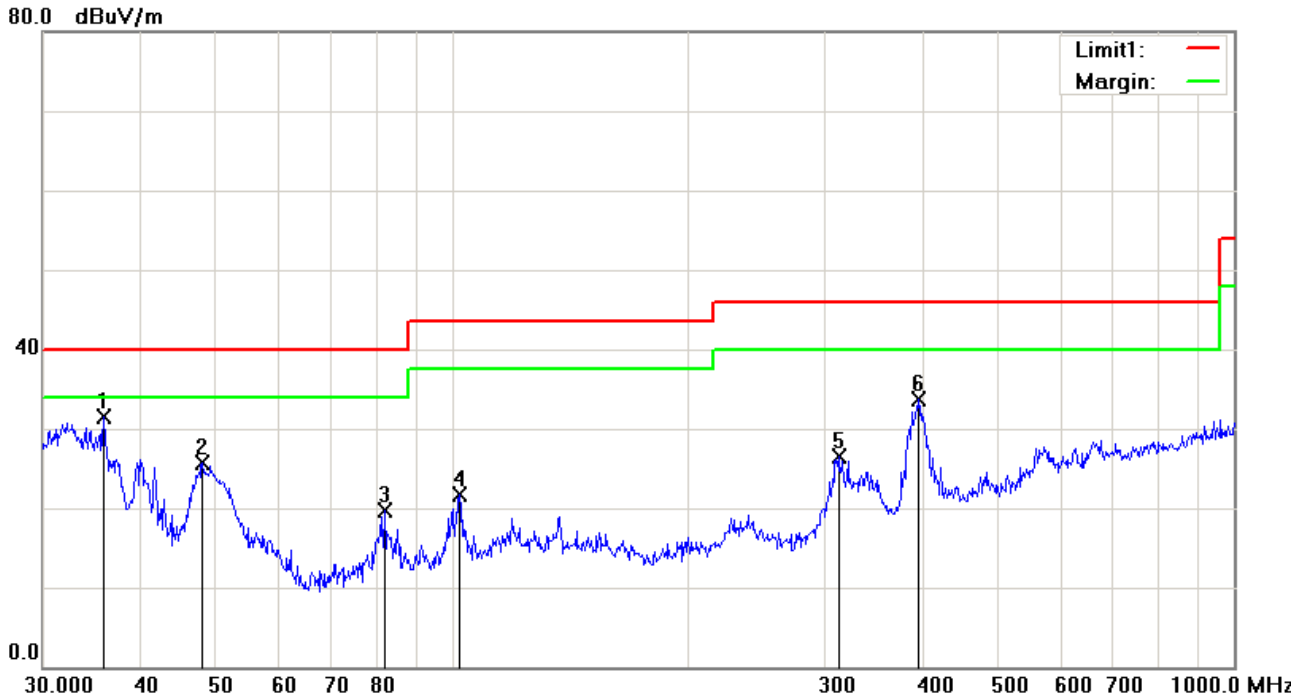
<p>Test Setup</p>	
<p>Procedure</p>	<ol style="list-style-type: none"> <li>1. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, 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>
<p>Remark</p>	<p>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.</p>
<p>Result</p>	<p><input checked="" type="checkbox"/> Pass      <input type="checkbox"/> Fail</p>

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



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

(Below 1GHz)

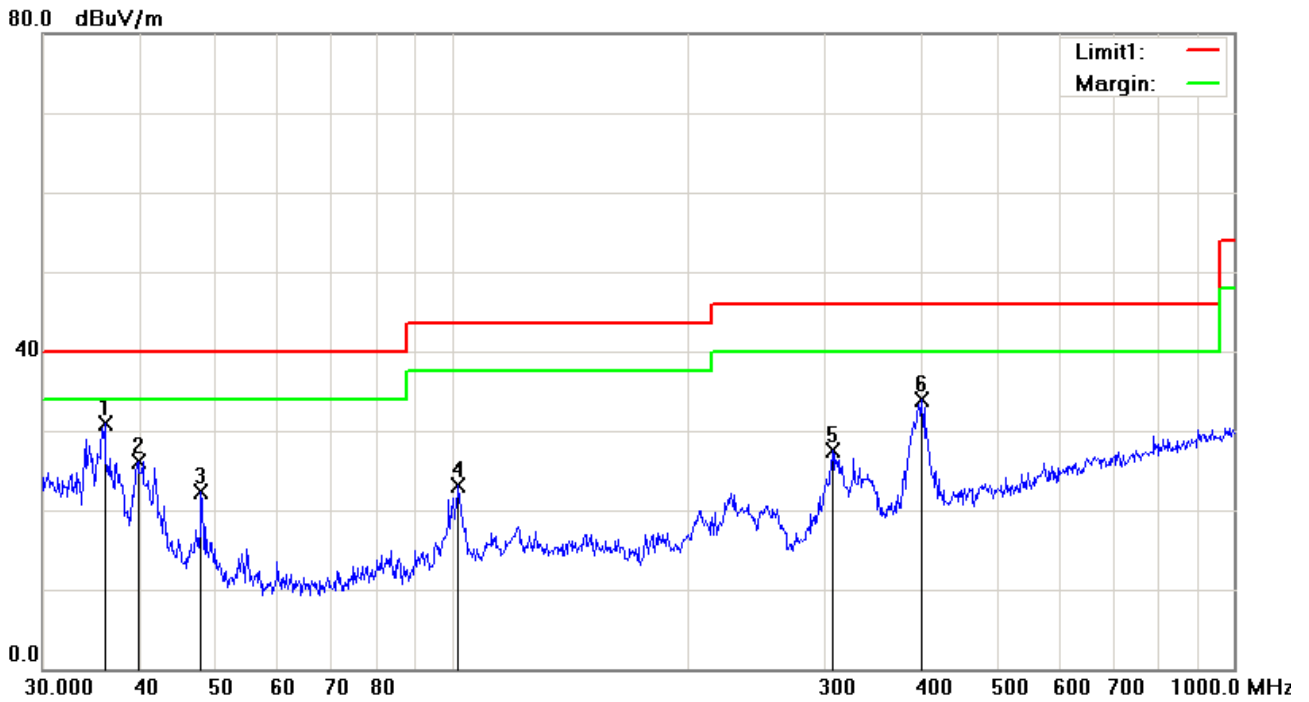


**Test Data**

**Vertical Polarity Plot @3m**

No	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Height	Degree
1	V	35.8747	36.13	peak	-4.58	31.55	40.00	-8.45	100	80
2	V	47.9940	37.93	peak	-12.28	25.65	40.00	-14.35	100	185
3	V	82.0706	33.38	peak	-13.66	19.72	40.00	-20.28	100	0
4	V	102.3597	32.14	peak	-10.38	21.76	43.50	-21.74	100	278
5	V	312.1794	33.05	peak	-6.55	26.50	46.00	-19.50	100	230
6	V	394.8545	38.06	peak	-4.42	33.64	46.00	-12.36	100	91

**(Below 1GHz)**



*Test Data*

**Horizontal Polarity Plot @3m**

No	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Height	Degree
1	H	36.0007	35.51	peak	-4.67	30.84	40.00	-9.16	100	238
2	H	39.7147	33.54	peak	-7.38	26.16	40.00	-13.84	100	253
3	H	47.8260	34.46	peak	-12.20	22.26	40.00	-17.74	100	152
4	H	102.0014	33.58	peak	-10.44	23.14	43.50	-20.36	100	13
5	H	306.7537	34.13	peak	-6.71	27.42	46.00	-18.58	100	265
6	H	399.0302	38.16	peak	-4.32	33.84	46.00	-12.16	100	73

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

**Low Channel (2412 MHz)**

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4824	38.61	AV	V	34	6.86	31.72	47.75	54	-6.25
4824	38.17	AV	H	33.8	6.86	31.72	47.11	54	-6.89
4824	46.22	PK	V	34	6.86	31.72	55.36	74	-18.64
4824	46.18	PK	H	33.8	6.86	31.72	55.12	74	-18.88

**Middle Channel (2442 MHz)**

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4874	38.58	AV	V	33.6	6.82	31.82	47.18	54	-6.82
4874	38.05	AV	H	33.8	6.82	31.82	46.85	54	-7.15
4874	46.17	PK	V	33.6	6.82	31.82	54.77	74	-19.23
4874	46.12	PK	H	33.8	6.82	31.82	54.92	74	-19.08

**High Channel (2472 MHz)**

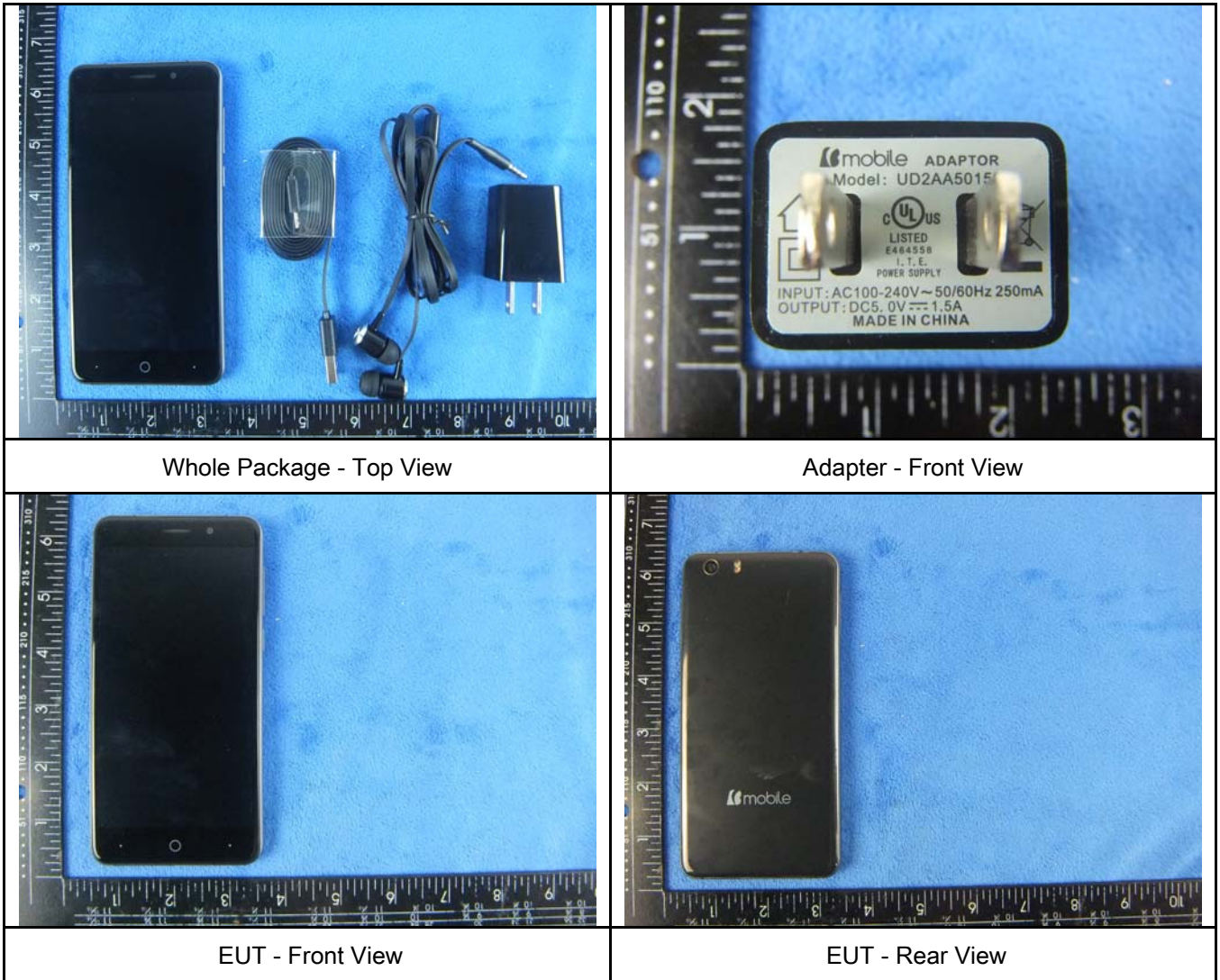
Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4924	38.51	AV	V	34.6	6.76	31.92	47.95	54	-6.05
4924	38.13	AV	H	34.7	6.76	31.92	47.67	54	-6.33
4924	46.21	PK	V	34.6	6.76	31.92	55.65	74	-18.35
4924	46.09	PK	H	34.7	6.76	31.92	55.63	74	-18.37

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted</b>					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
<b>RF conducted test</b>					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/20/2014	11/19/2015	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>

**Annex B. EUT and Test Setup Photographs**

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

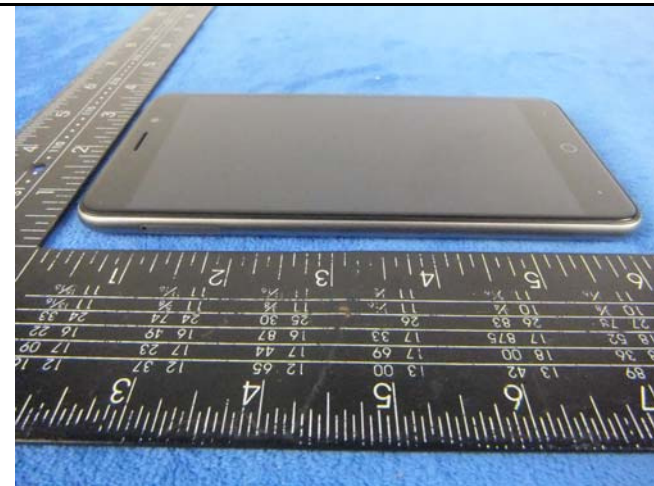




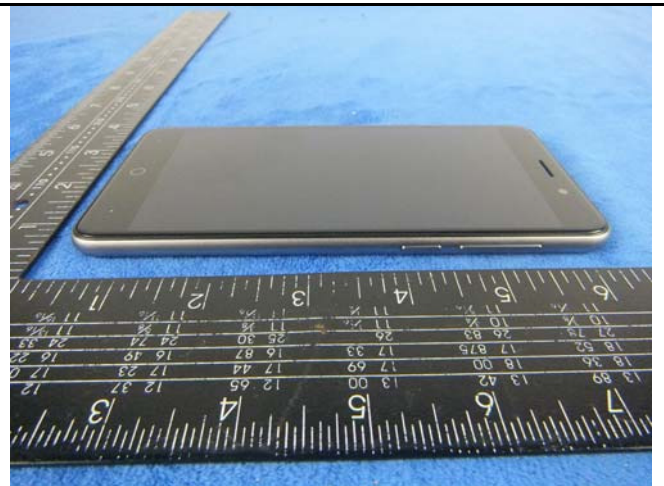
EUT - Top View



EUT - Bottom View



EUT - Left View

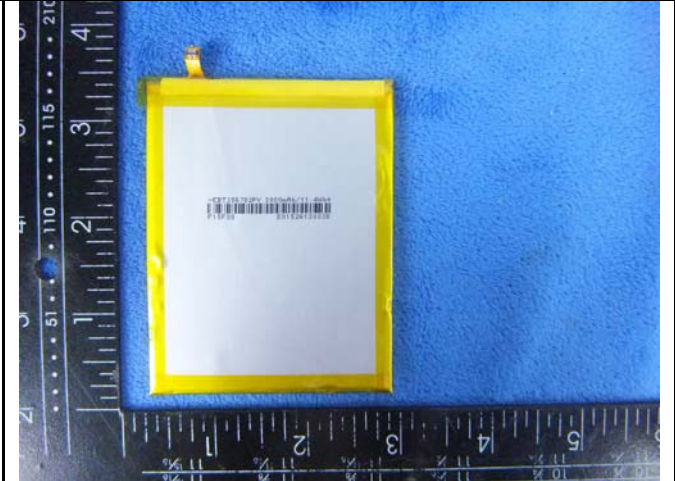


EUT - Right View

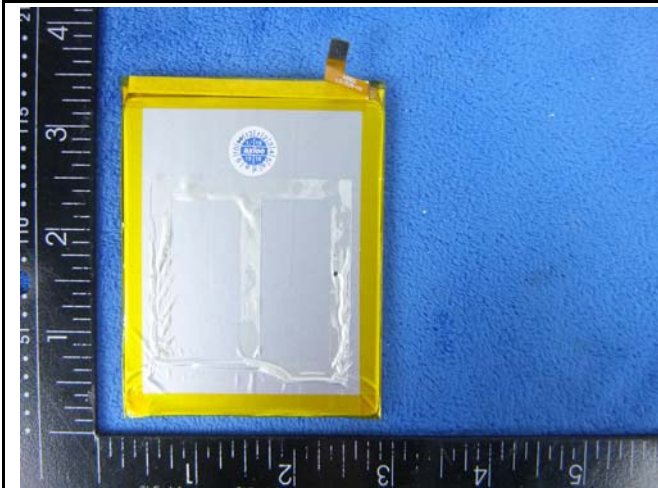
**Annex B.ii. Photograph: EUT Internal Photo**



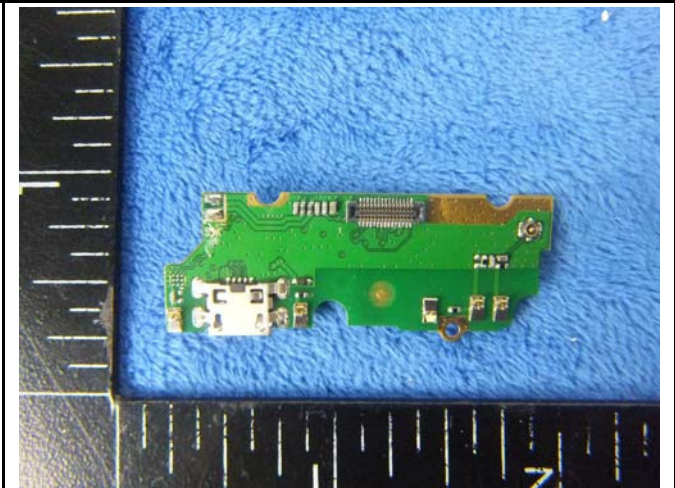
Cover Off - Top View



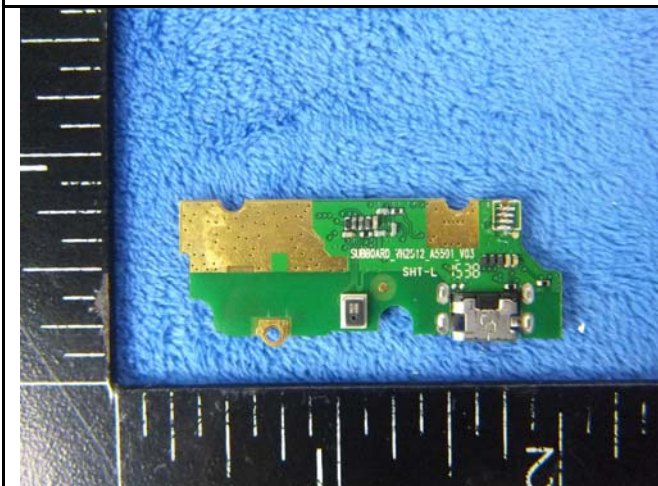
Battery - Front View



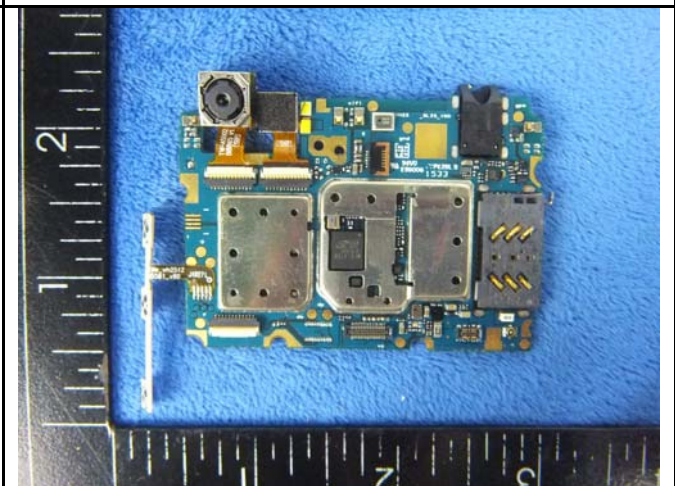
Battery - Rear View



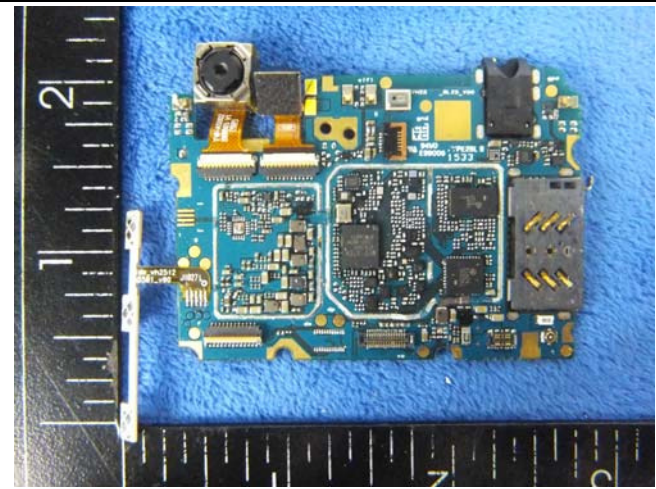
Mini Mainbard - Front View



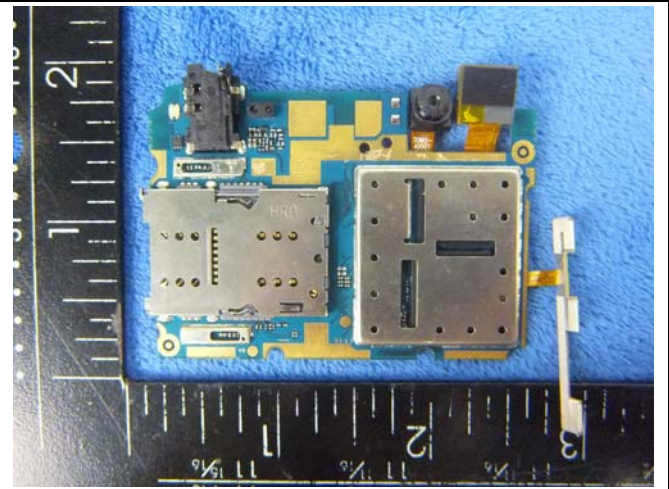
Mini Mainbard - Rear View



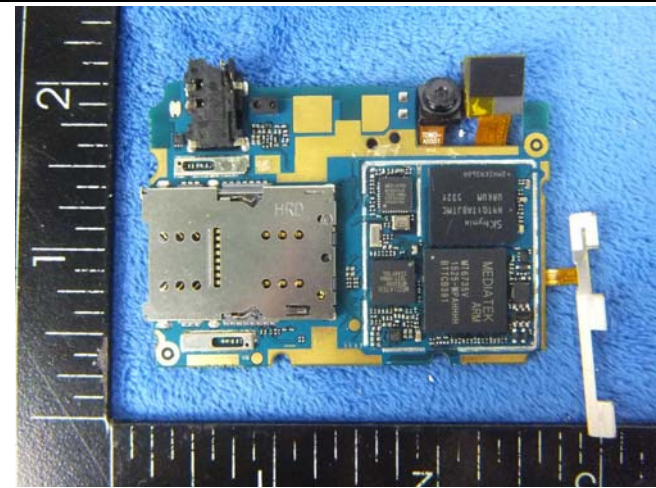
Mainbard with Shielding - Front View



Mainboard without Shielding - Front View



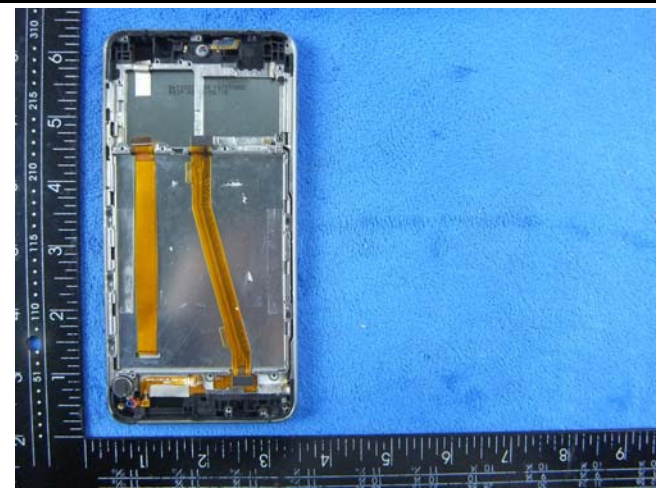
Mainboard with Shielding - Rear View



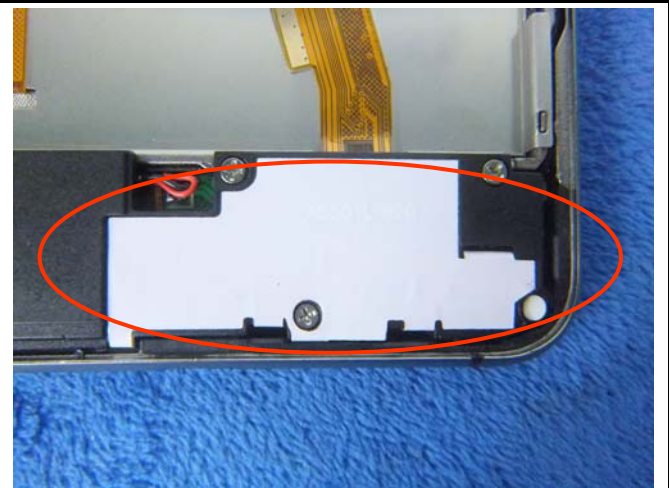
Mainboard without Shielding - Rear View



LCD - Front View



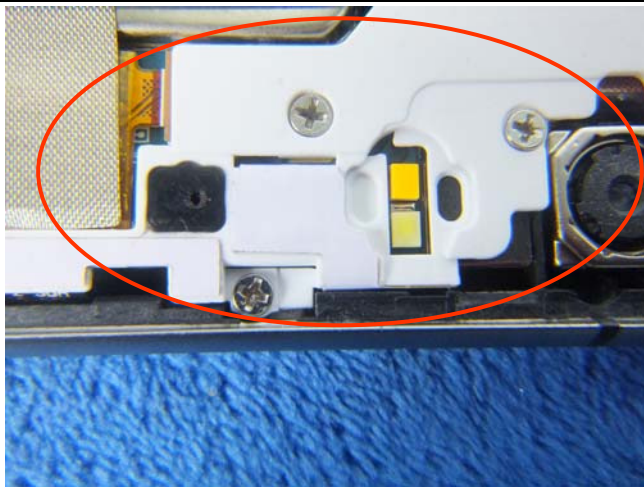
LCD - Rear View



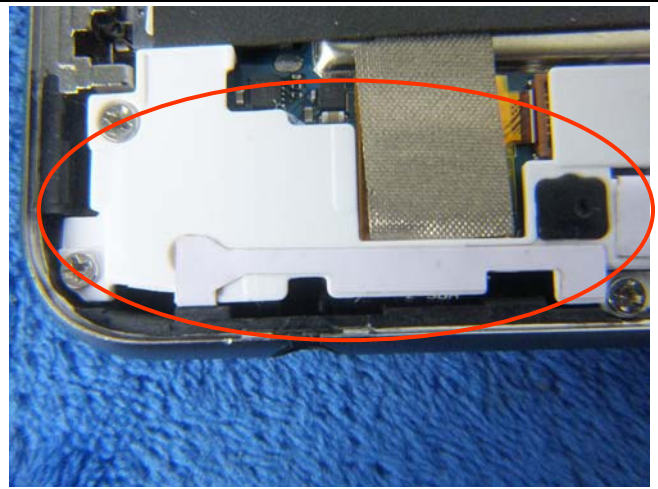
GSM/PCS/UMTS-FDD/LTE Antenna View



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WiFi/BT/BLE - Antenna View



GPS - Antenna View

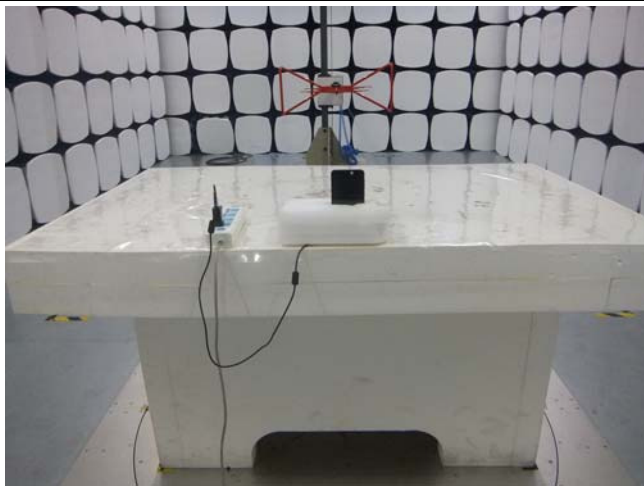
**Annex B.iii. Photograph: Test Setup Photo**



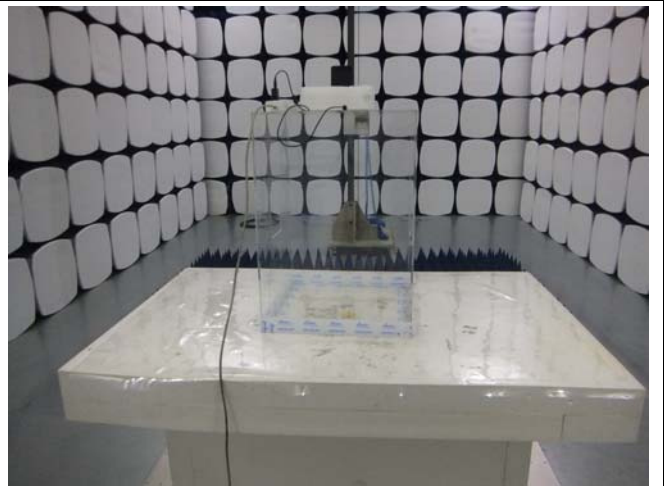
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

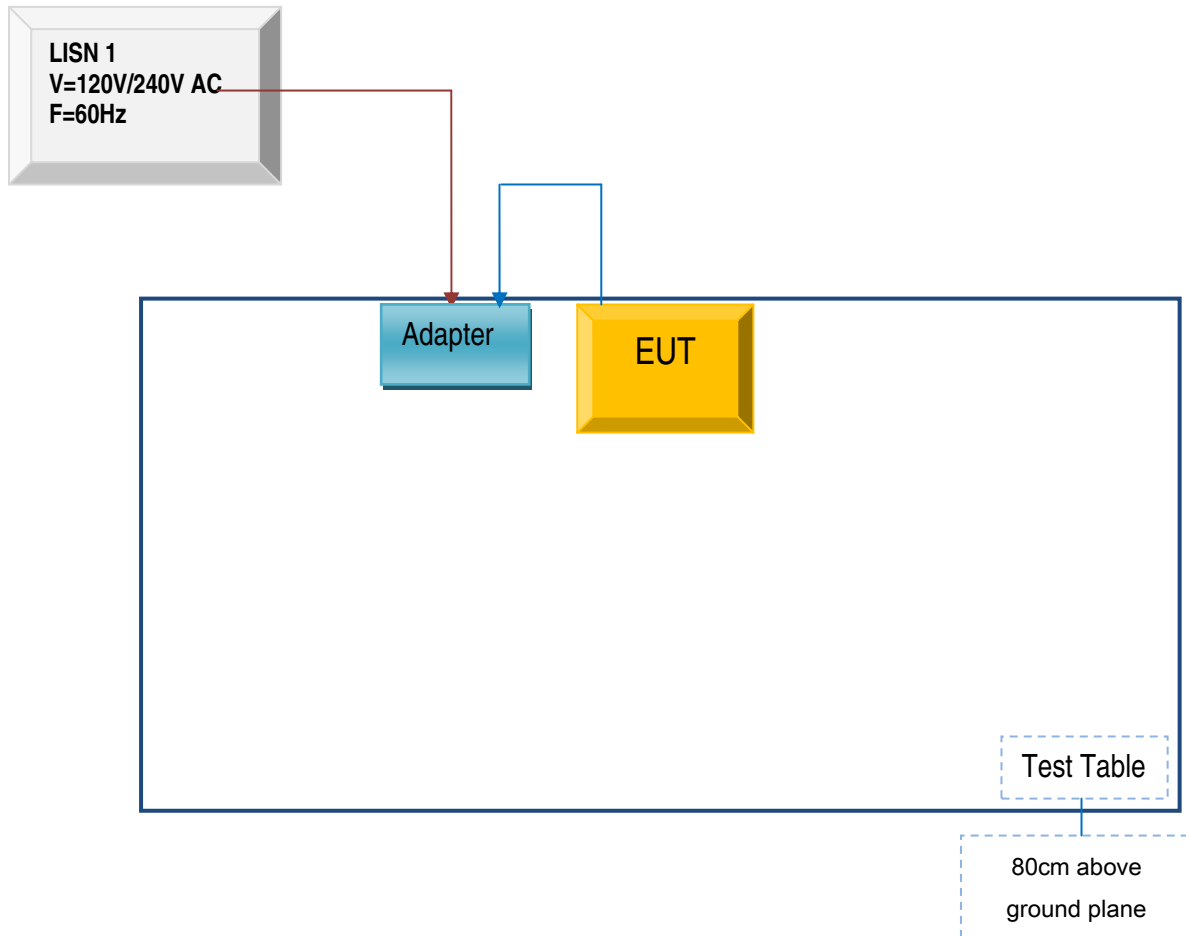


Radiated Spurious Emissions Test Setup Above 1GHz

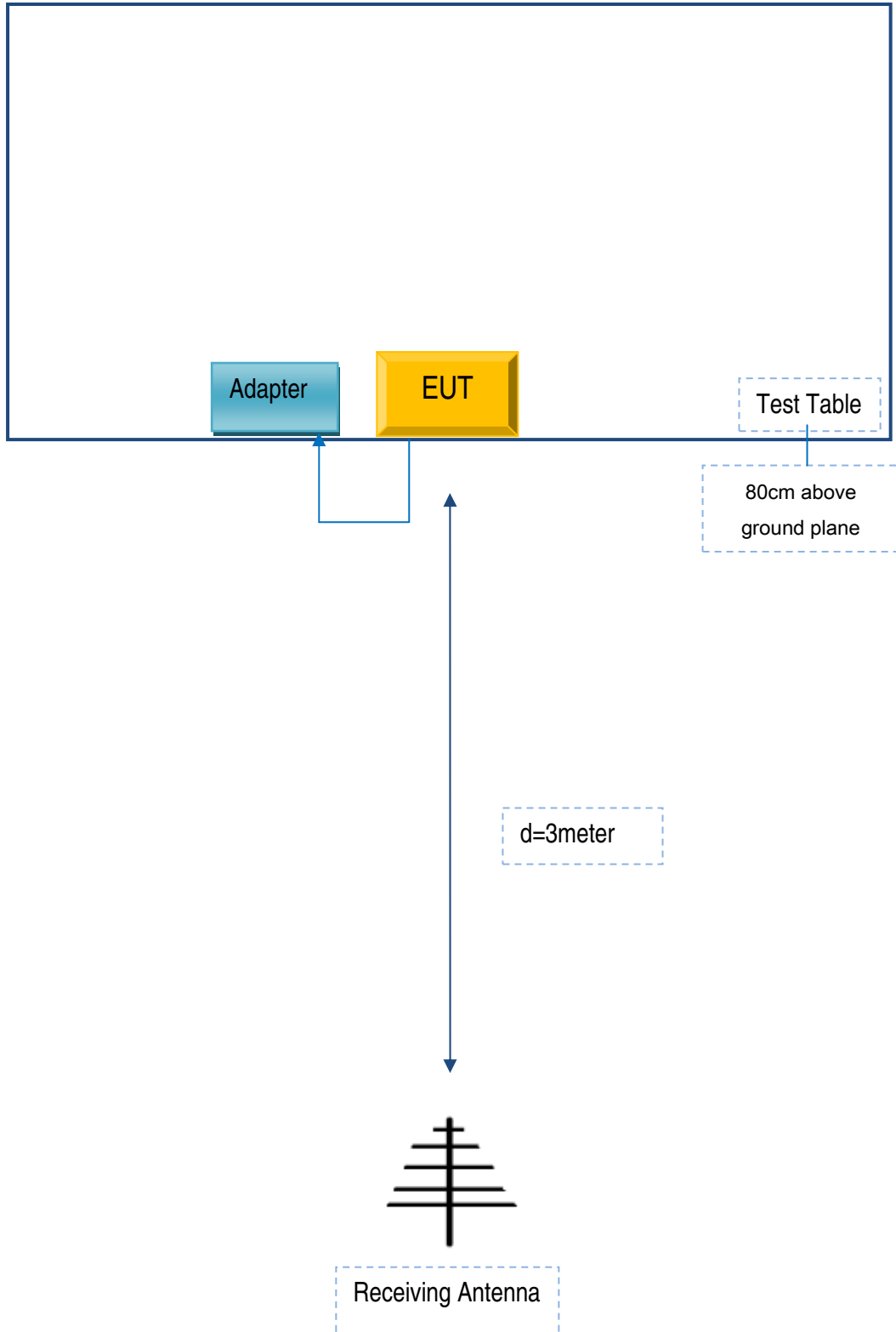
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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

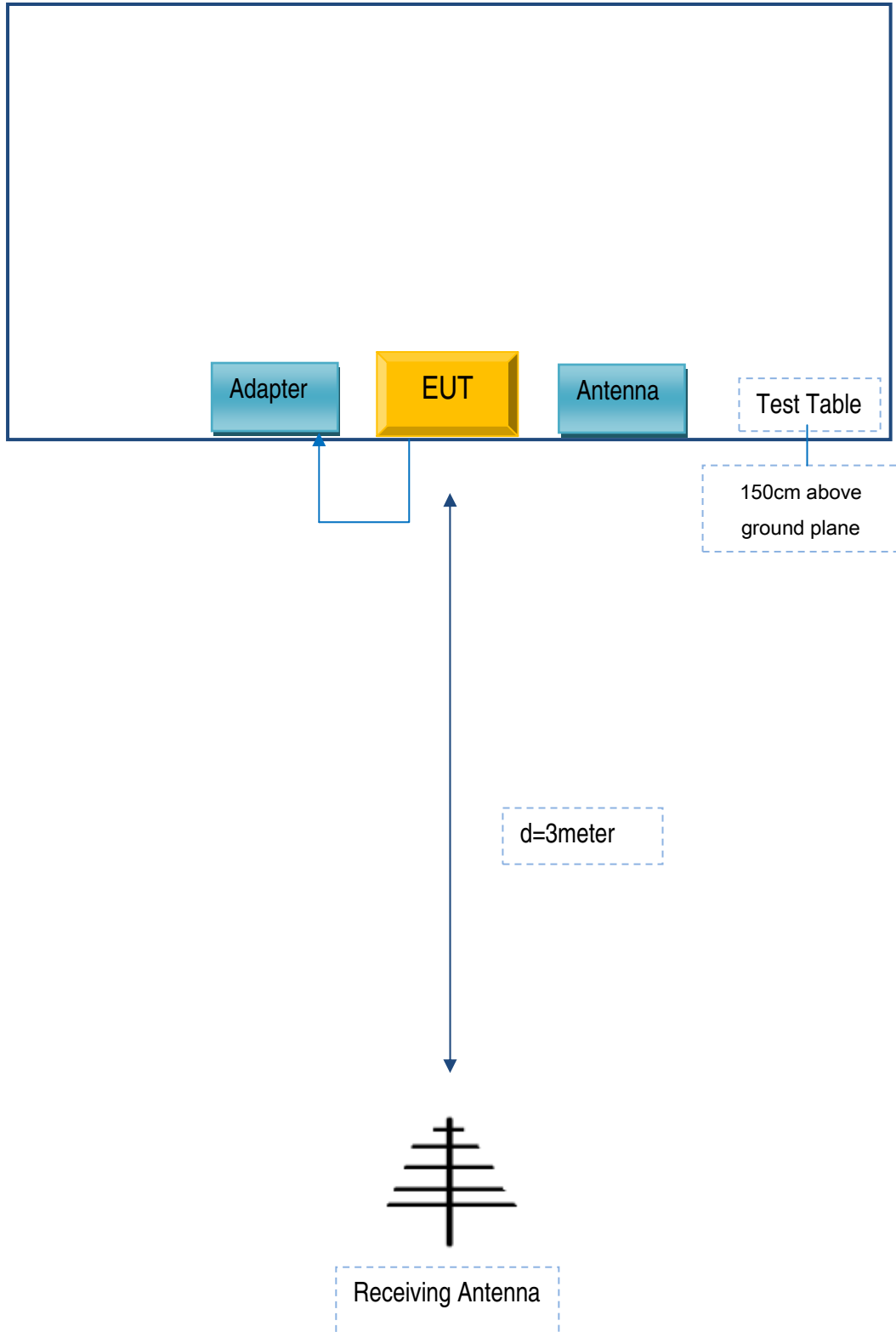
#### Block Configuration Diagram for AC Line Conducted Emissions



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



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



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**Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION**

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

<b>Manufacturer</b>	<b>Equipment Description</b>	<b>Model</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
N/A	N/A	N/A	N/A	N/A

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

Please see attachment

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## Annex E. DECLARATION OF SIMILARITY

As shown below



To SIEMIC Inc  
775 Montague Expressway  
Milpitas, CA 95035.

## Statement

We, b Mobile HK Limited apply a multiple-listing certification for the below models.

Product Name: Mobile phone

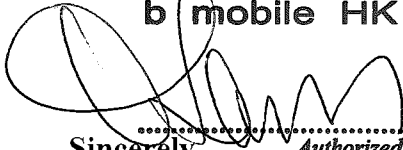
Model number: AX1095/B1+

FCC ID: ZSW-30-018

We hereby state that these models are identical in interior structure, electrical circuits and components, and just model name is different for the marketing requirement.

Your assistance on this matter is highly appreciated.

~~Respectfully,~~  
b mobile HK Limited



.....  
Sincerely, *Authorized Signature(s)*

Name: KA SHING LAM

Title: Director

Signature: