

RF TEST REPORT



Report No.: 15071081-FCC-R3

Supersede Report No.: N/A

Applicant	MACATE GROUP CORPORATION	
Product Name	4G LTE SMARTPHONE	
Model No.	GATCA ELITE	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2014, ANSI C63.10: 2013	
Test Date	November 24 to December 16, 2015	
Issue Date	December 18, 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"/>
Winnie Zhang	David Huang	
Winnie Zhang 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.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

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
15071081-FCC-R3	NONE	Original	December 18, 2015

2. Customer information

Applicant Name	MACATE GROUP CORPORATION
Applicant Add	3401 SW 160th AVENUE, SUITE 430, MIRAMAR/FLORIDA, USA
Manufacturer	MOBIWIRE MOBILES (NINGBO) CO.,LTD
Manufacturer Add	No.999,Dacheng East Road,Fenghua City,Zhejiang Province,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

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4. Equipment under Test (EUT) Information

Description of EUT:	4G LTE SMARTPHONE
Main Model:	GATCA ELITE
Serial Model:	N/A
Date EUT received:	November 23,2015
Test Date(s):	November 24 to December 16, 2015
Equipment Category :	DTS
	GSM850: -3dBi
	PCS1900: 0dBi
	UMTS-FDD Band V: -3dBi
	UMTS-FDD Band II: 0dBi
	UMTS-FDD Band IV: 0dBi
Antenna Gain:	Bluetooth/BLE/WIFI/GPS:-1dBi
	LTE Band 2: 0dBi
	LTE Band 4: 0dBi
	LTE Band 5: -3dBi
	LTE Band 12: -3dBi
	LTE Band 17: -3dBi
	GSM / GPRS: GMSK
	EGPRS: GMSK, 8PSK
	UMTS-FDD: QPSK, 16QAM
Type of Modulation:	802.11b/g/n: DSSS, OFDM
	Bluetooth: GFSK, π /4DQPSK, 8DPSK
	BLE: GFSK
	LTE Band: QPSK, 16QAM
	GPS:BPSK
RF Operating Frequency (ies):	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 II TX: 1852.4 ~ 1907.6 MHz;

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RX: 1932.4 ~ 1987.6 MHz
 UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;
 WIFI:802.11b/g/n(20M): 2412-2462 MHz
 WIFI:802.11n(40M): 2422-2452 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 12 TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz
 LTE Band 17 TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 MHz
 GPS RX:1575.42 MHz

Max. Output Power:
 802.11b:8.98dBm
 802.11g:8.18dBm
 802.11n(20M):8.42dBm
 802.11n(40M):8.08dBm

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

Input Power:
 Battery:
 Model:N/A
 Standard Voltage:DC3.8V
 Rated Capacity:3000mAh,11.4Wh
 Adapter:
 Model:A88-502000
 Input: AC100-240V; 50/60Hz; 0.35A
 Output: DC 5.0V,2.0A

Port: Power Port, Earphone Port, USB Port

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Trade Name : GATCA ELITE

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

FCC ID: 2AGMA-SGE1G

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/GPS, the gain is -1dBi for Bluetooth,BLE, WIFI and GPS.

A permanently attached PIFA antenna for GSM /UMTS, the gain is -3dBi for GSM850, 0dBi for PCS1900, -3dBi for UMTS-FDD Band V,0dBi for UMTS-FDD Band II and Band IV .

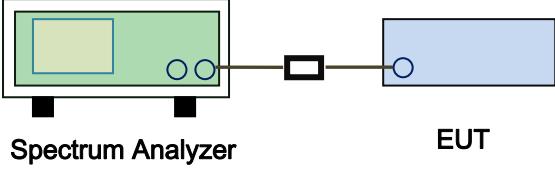
A permanently attached PIFA antenna for LTE, the gain is 0dBi for LTE Band 2, the gain is 0dBi for LTE Band 4, the gain is -3dBi for LTE Band 5, Band 12 and Band 17.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 DTS (6 dB&20 dB) Channel Bandwidth

Temperature	23°C
Relative Humidity	54%
Atmospheric Pressure	1030mbar
Test date :	November 30, 2015
Tested By :	Winnie Zhang

Spec	Item	Requirement	Applicable
§ 15.247(a)(2)	a)	6dB BW \geq 500kHz; 20dB BW \geq 500kHz;	<input checked="" type="checkbox"/>
	b)	99% BW: For FCC reference only; required by IC.	<input checked="" type="checkbox"/>
Test Setup	 Spectrum Analyzer EUT		
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"> Set RBW = 100 kHz. Set the video bandwidth (VBW) \geq 3 \times RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize. 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. <p><u>20dB bandwidth</u></p> <p>C63.10 Occupied Bandwidth (OBW=20dB bandwidth)</p> <ol style="list-style-type: none"> Set RBW = 1%-5% OBW. Set the video bandwidth (VBW) \geq 3 x RBW. Set the span range between 2 times and 5 times of the OBW. Sweep time=Auto, Detector=PK, Trace=Max hold. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst- 		

	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

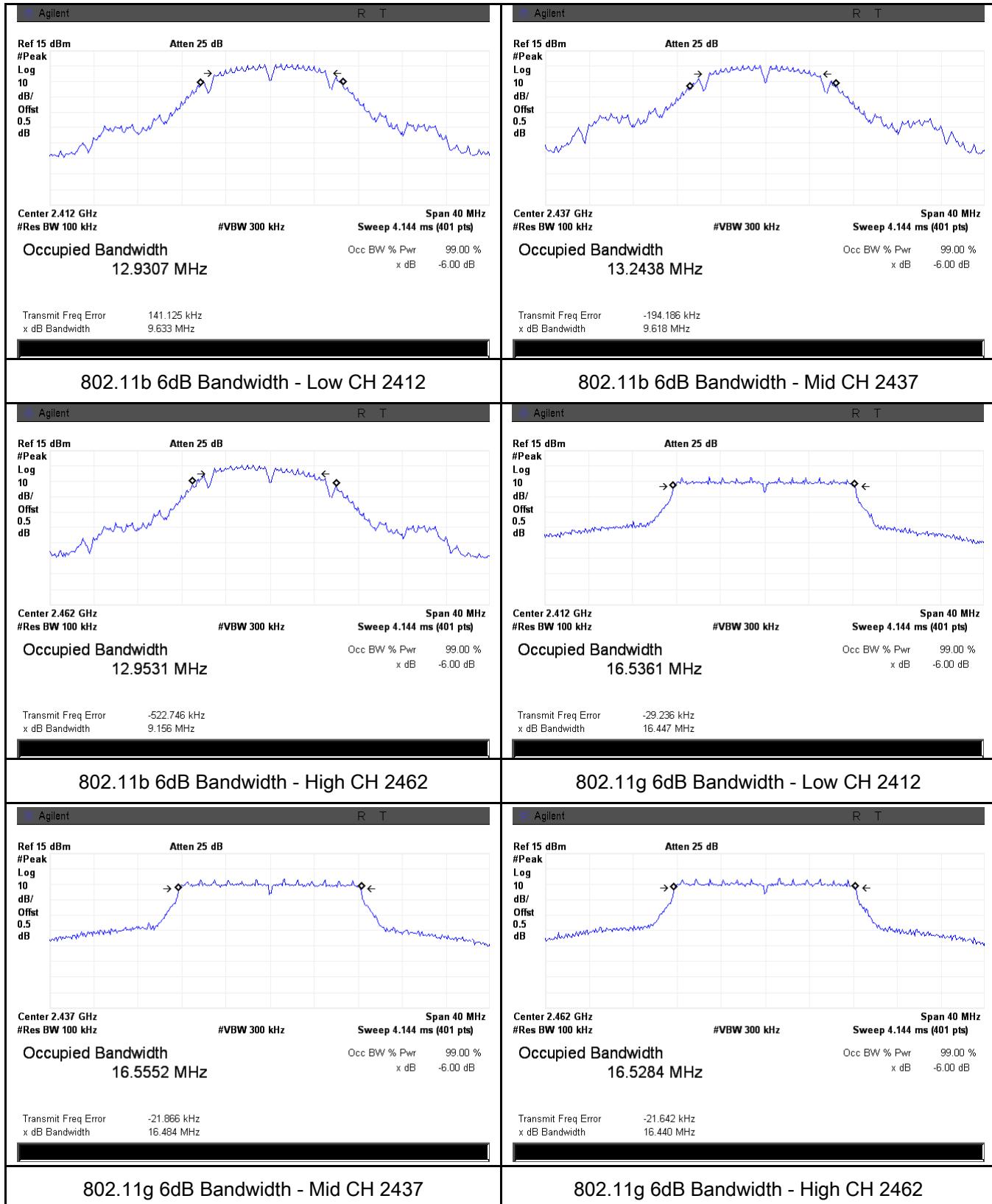
Test Plot Yes (See below) N/A

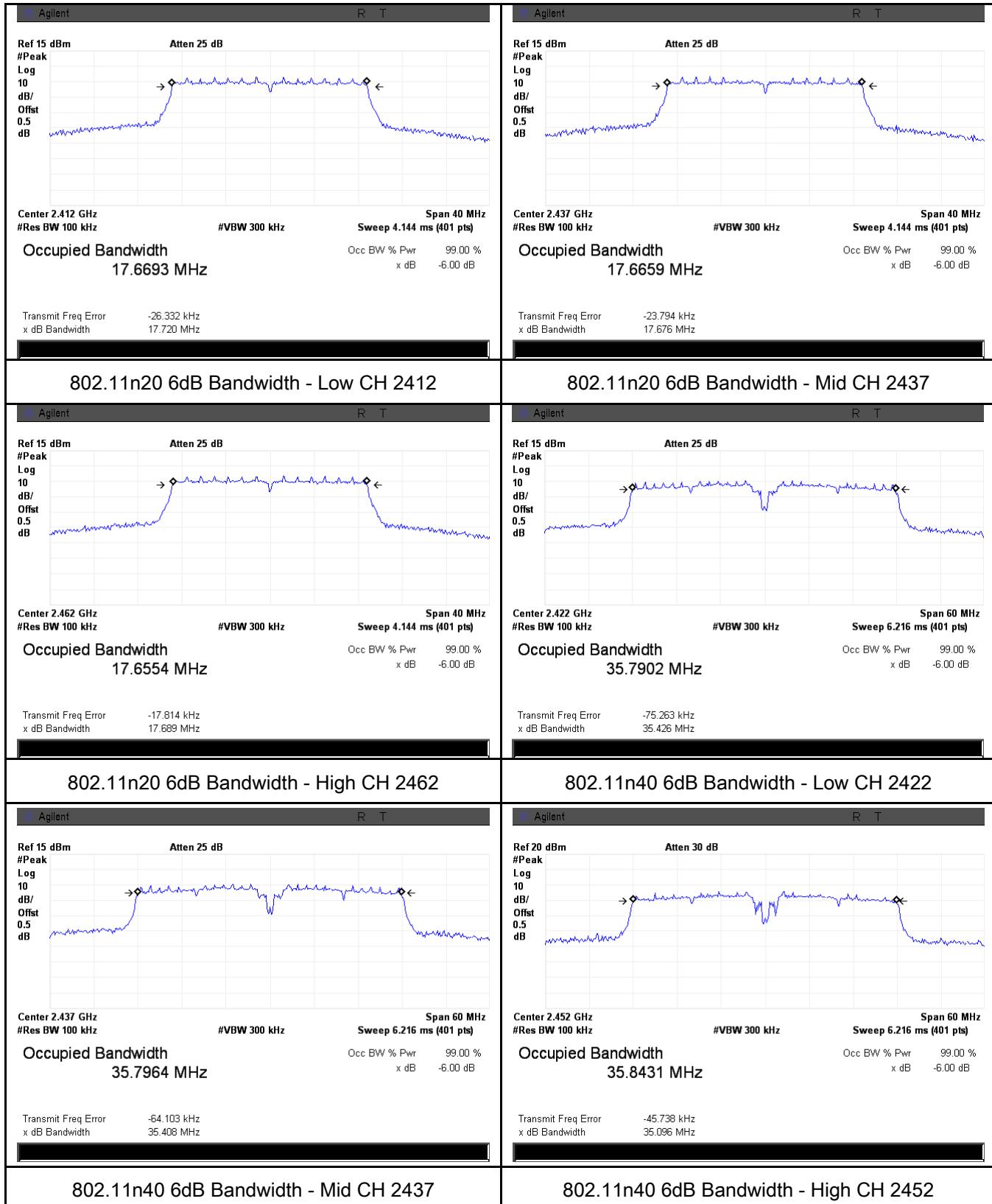
Measurement result

Test mode	CH	Freq (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	9.633	14.892	≥ 0.5
	Mid	2437	9.618	15.294	≥ 0.5
	High	2462	9.633	14.508	≥ 0.5
802.11g	Low	2412	16.447	19.271	≥ 0.5
	Mid	2437	16.484	19.145	≥ 0.5
	High	2462	16.440	19.321	≥ 0.5
802.11n (20M)	Low	2412	17.720	19.782	≥ 0.5
	Mid	2437	17.676	19.609	≥ 0.5
	High	2462	17.689	19.679	≥ 0.5
802.11n (40M)	Low	2422	35.426	38.229	≥ 0.5
	Mid	2437	35.408	38.112	≥ 0.5
	High	2452	35.096	38.416	≥ 0.5

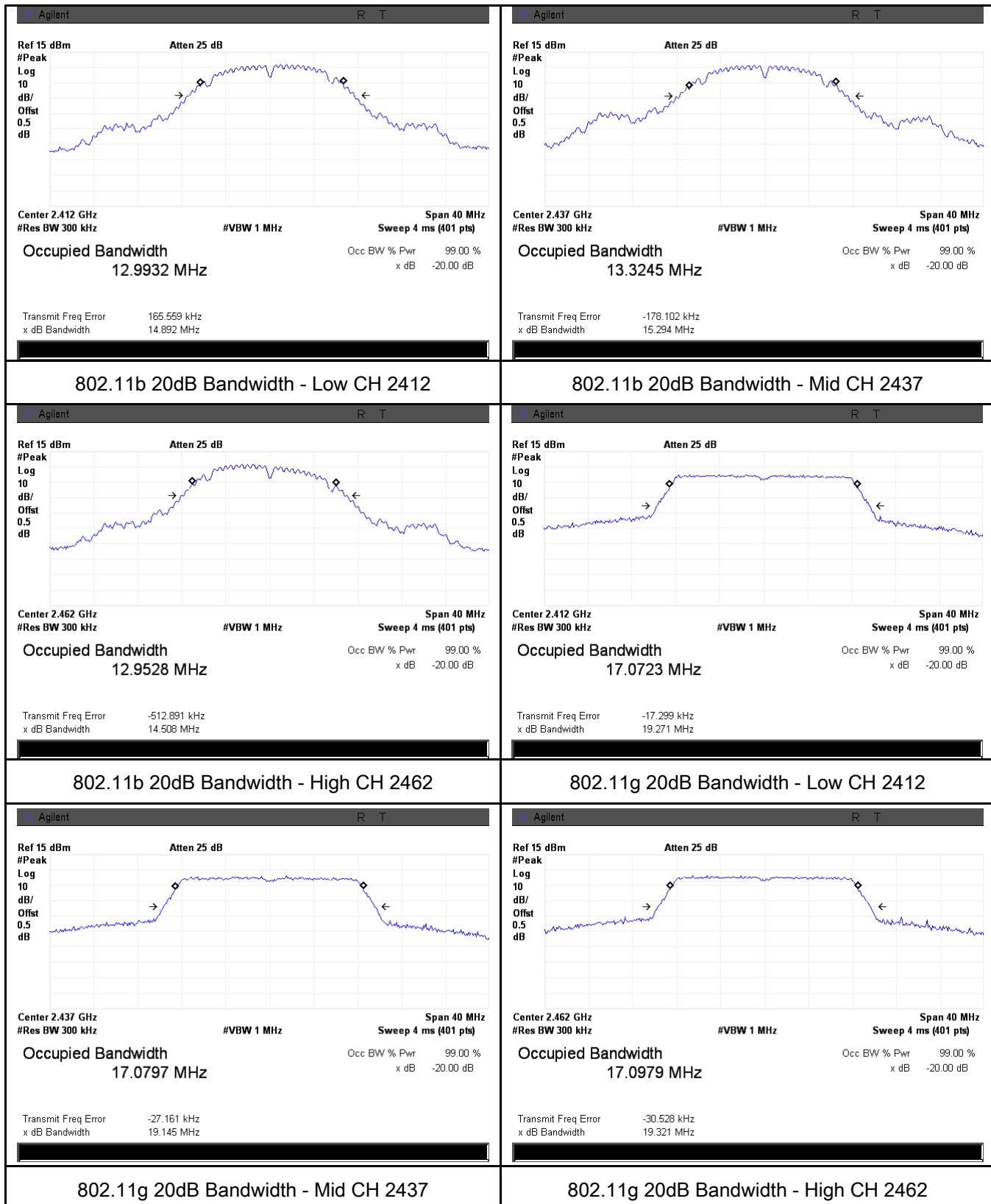
Test Plots

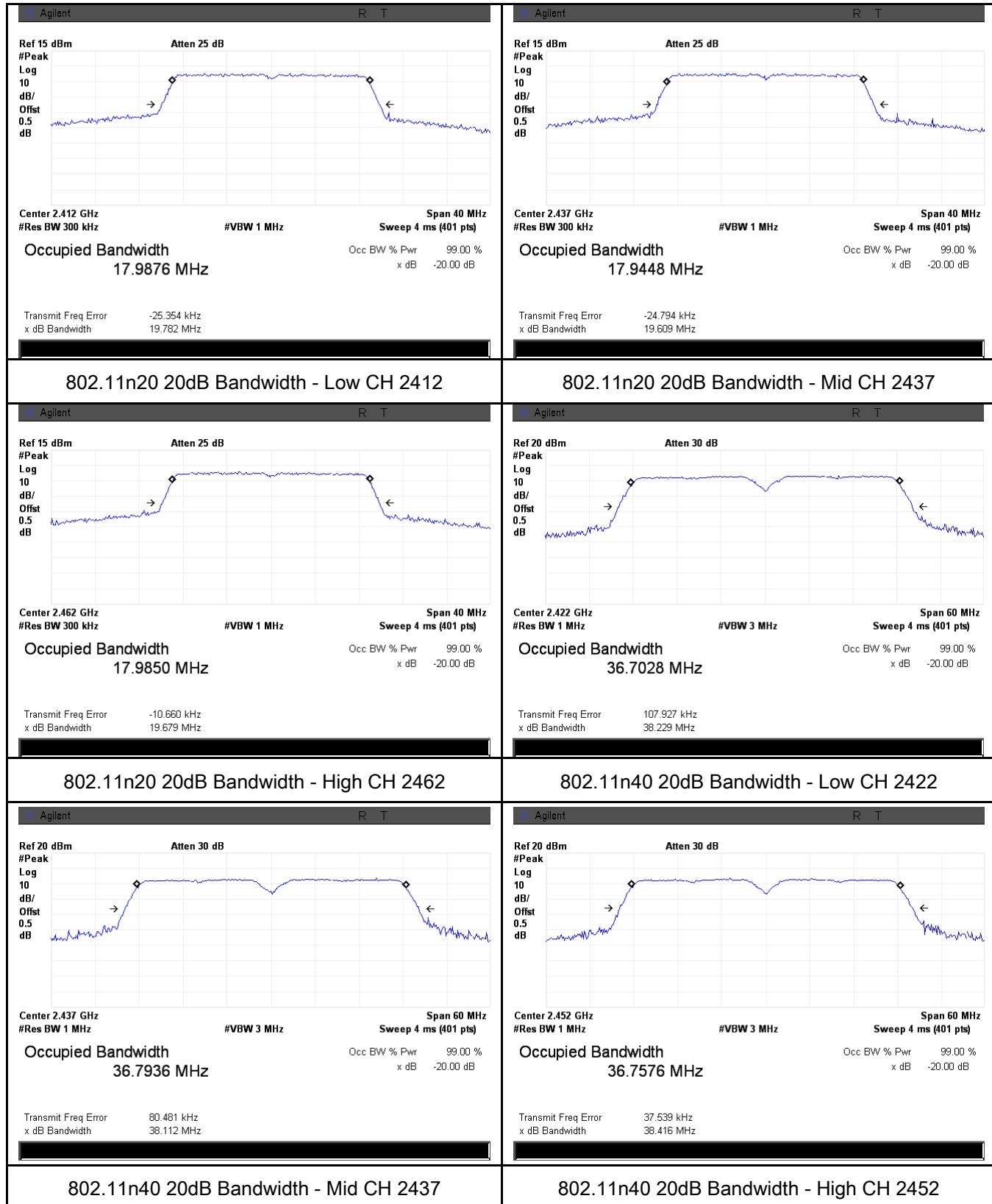
6dB Bandwidth measurement result





20 dB Bandwidth measurement result

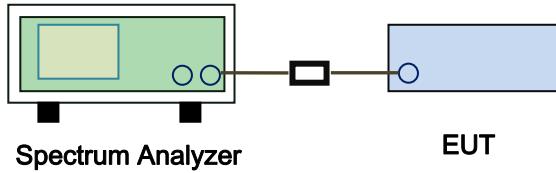




6.3 Maximum Output Power

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	November 24, 2015
Tested By :	Winnie Zhang

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		 Spectrum Analyzer EUT	
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"> - a) Set span to at least 1.5 times the OBW. - b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz. - c) Set VBW \geq 3 x RBW. - d) Number of points in sweep \geq 2 \times span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.) - e) Sweep time = auto. - f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. - g) If transmit duty cycle $<$ 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum 	

	<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 $\geq 98\%$, 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"> - h) Trace average at least 100 traces in power averaging (i.e., RMS) mode. - 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.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

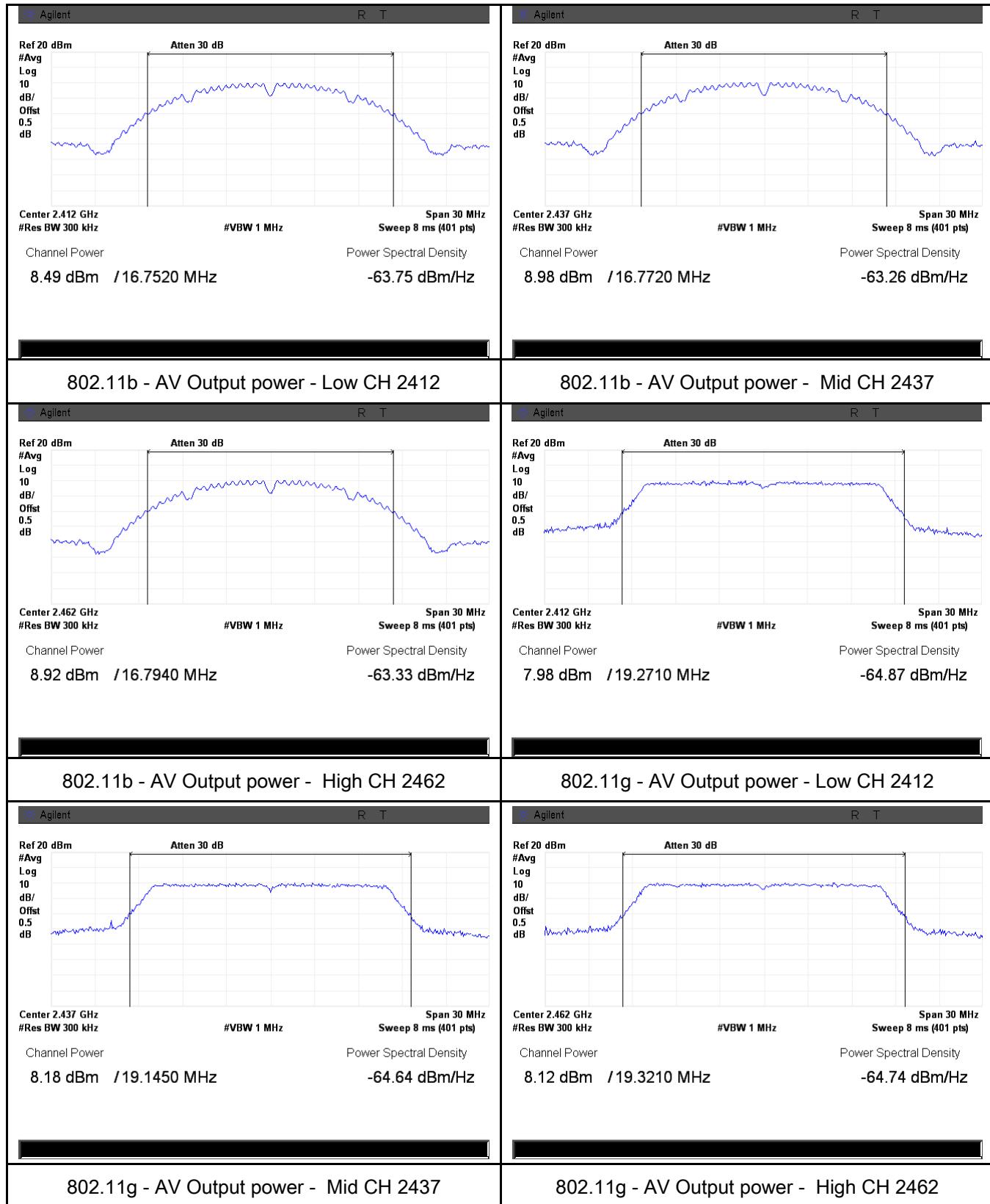
Test Plot Yes (See below) N/A

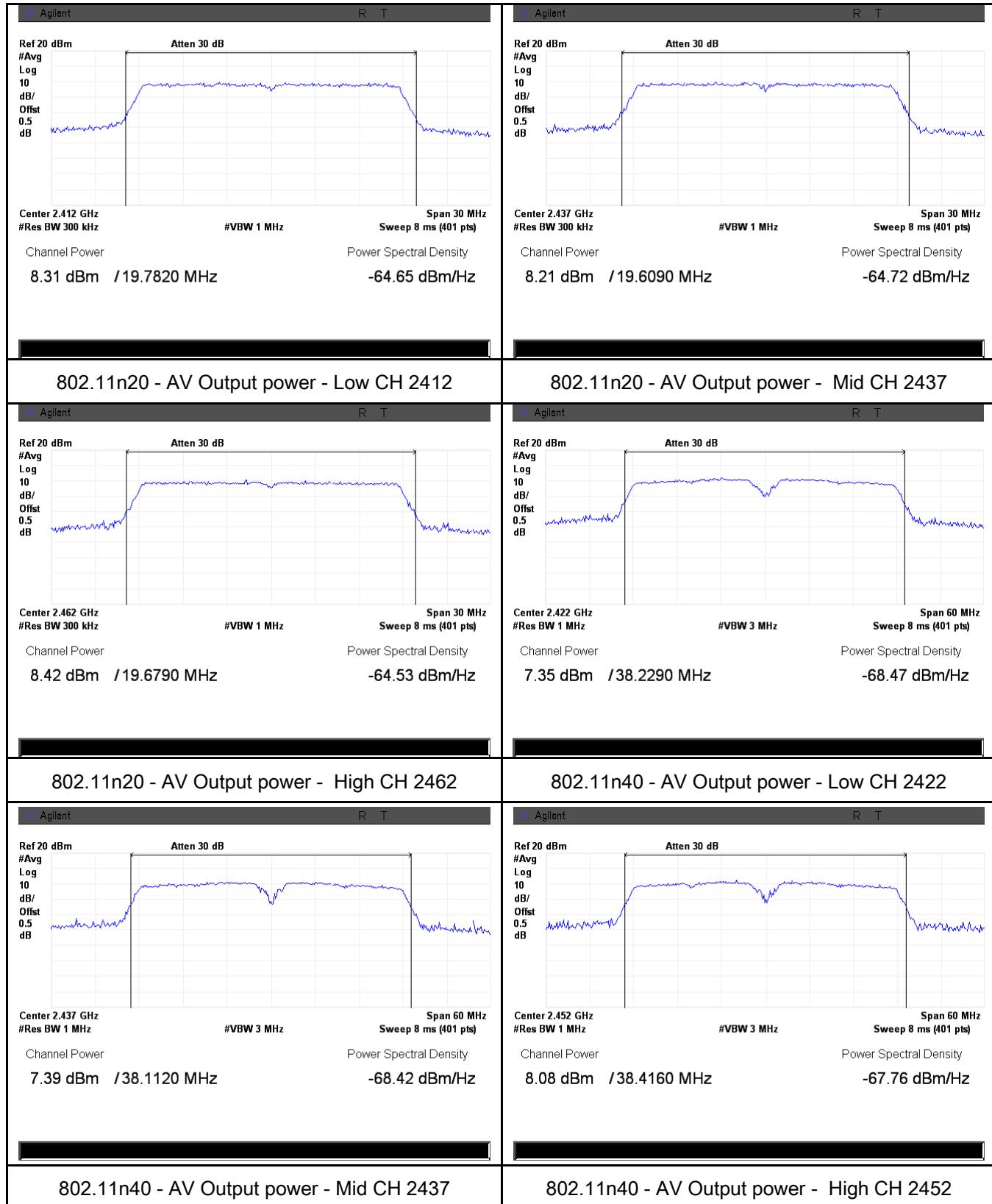
Output Power measurement result

Type	Test mode	CH	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output power	802.11b	Low	2412	8.49	30	Pass
		Mid	2437	8.98	30	Pass
		High	2462	8.92	30	Pass
	802.11g	Low	2412	7.98	30	Pass
		Mid	2437	8.18	30	Pass
		High	2462	8.12	30	Pass
	802.11n (20M)	Low	2412	8.31	30	Pass
		Mid	2437	8.21	30	Pass
		High	2462	8.42	30	Pass
	802.11n (40M)	Low	2422	7.35	30	Pass
		Mid	2437	7.39	30	Pass
		High	2452	8.08	30	Pass

Test Plots

The Average Power





6.4 Power Spectral Density

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	November 24, 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			
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"> - a) Set analyzer center frequency to DTS channel center frequency. - b) Set the span to 1.5 times the DTS bandwidth. - c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. - d) Set the VBW $\geq 3 \times \text{RBW}$. - e) Detector = peak. - f) Sweep time = auto couple. - g) Trace mode = max hold. - h) Allow trace to fully stabilize. - i) Use the peak marker function to determine the maximum amplitude level within the RBW. - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat. 		
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 :

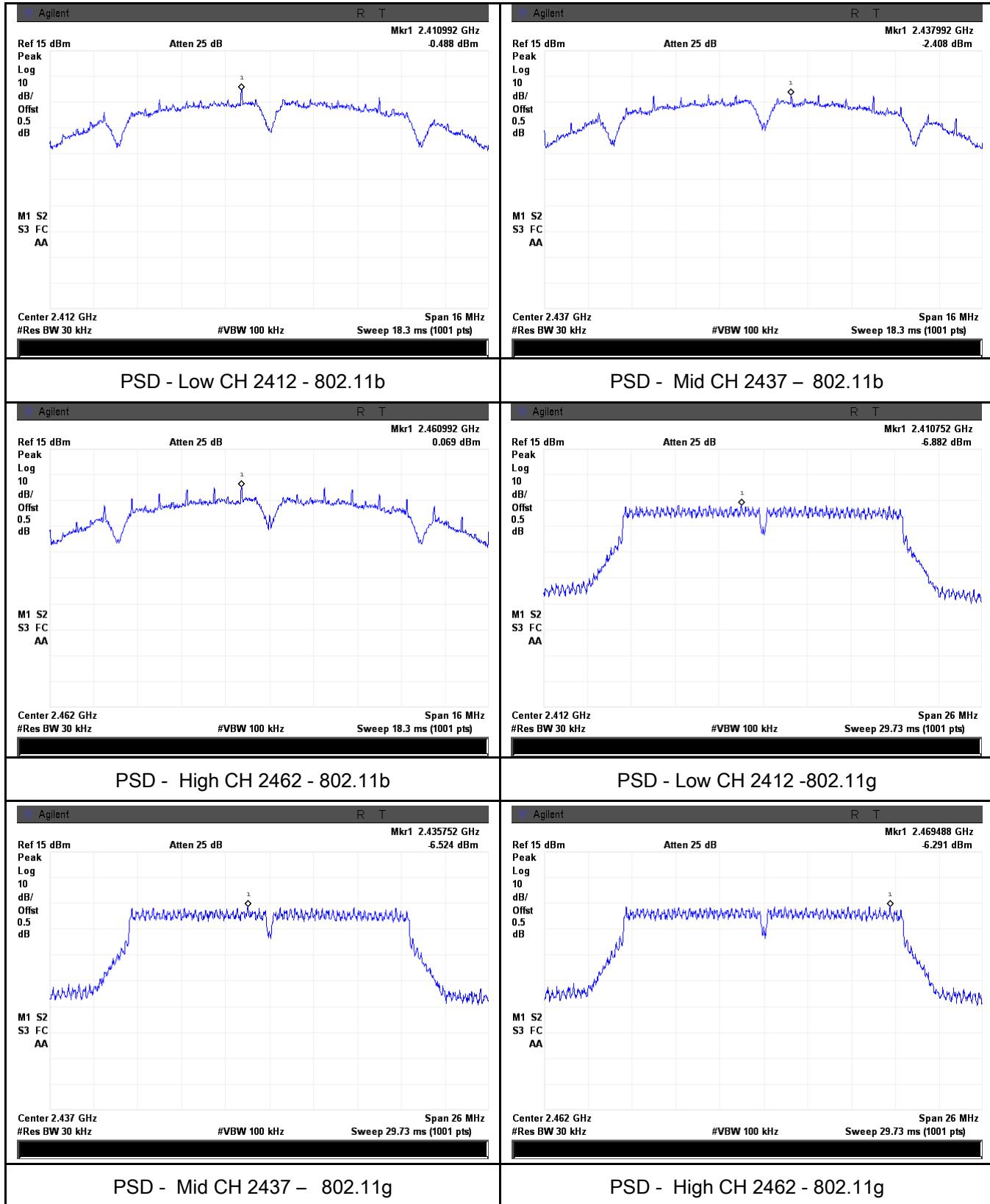
Type	Test mode	CH	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
PSD	802.11b	Low	2412	-0.488	-10.0	-10.488	8	Pass
		Mid	2442	-2.408	-10.0	-12.408	8	Pass
		High	2472	0.069	-10.0	-9.931	8	Pass
	802.11g	Low	2412	-6.882	-10.0	-16.882	8	Pass
		Mid	2442	-6.524	-10.0	-16.524	8	Pass
		High	2472	-6.291	-10.0	-16.291	8	Pass
	802.11n (20M)	Low	2412	-6.607	-10.0	-16.607	8	Pass
		Mid	2442	-6.216	-10.0	-16.216	8	Pass
		High	2472	-5.945	-10.0	-15.945	8	Pass
	802.11n (40M)	Low	2422	-4.626	-15.2	-19.826	8	Pass
		Mid	2442	-4.681	-15.2	-19.881	8	Pass
		High	2462	--4.382	-15.2	-10.818	8	Pass

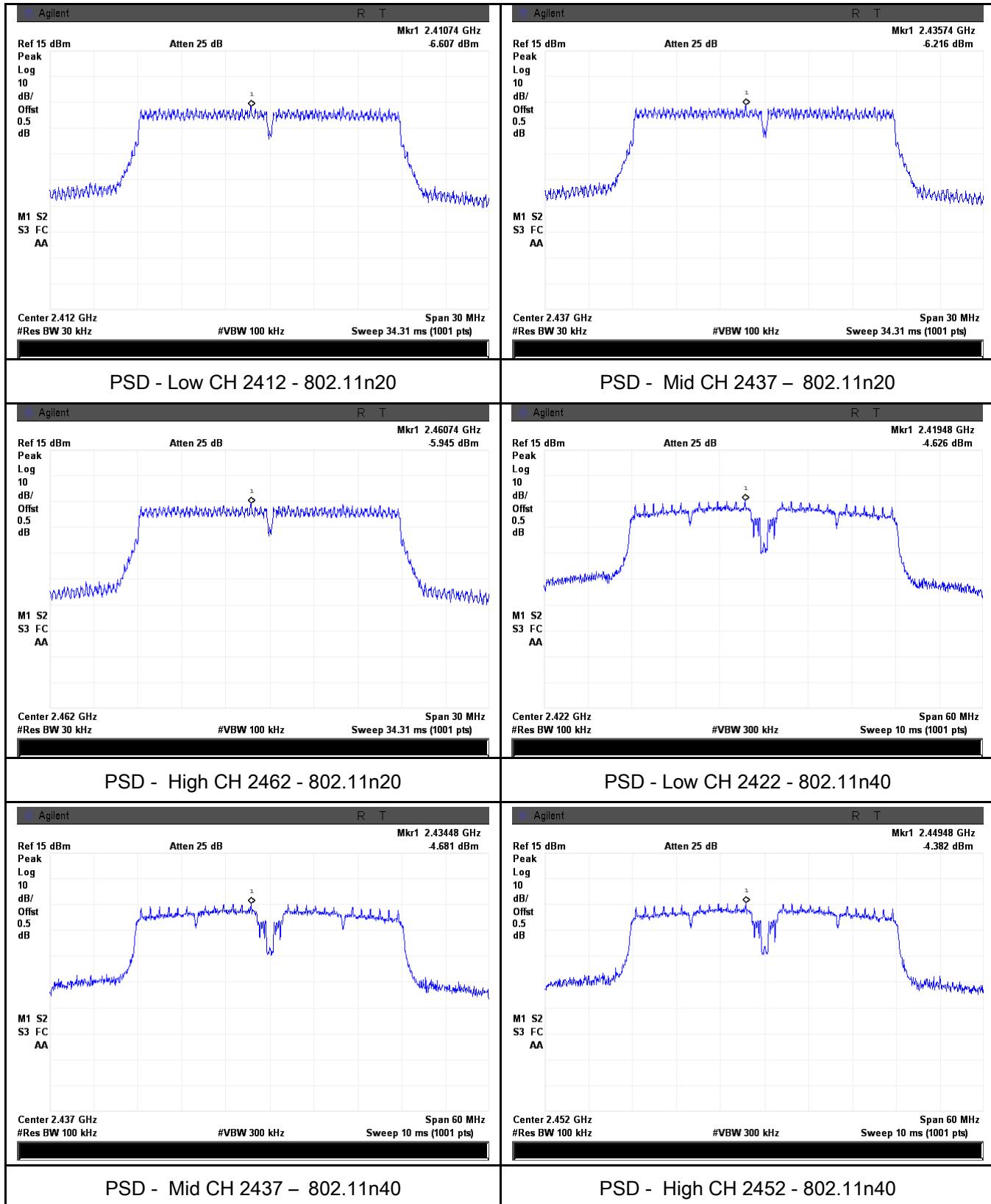
Note: Factor= $10\log(3/30)$ dB= -10.0 dB (b, g, n20 mode);

Factor= $10\log(3/100)$ dB= -15.2 dB (n40 mode).

Test Plots

Power Spectral Density measurement result

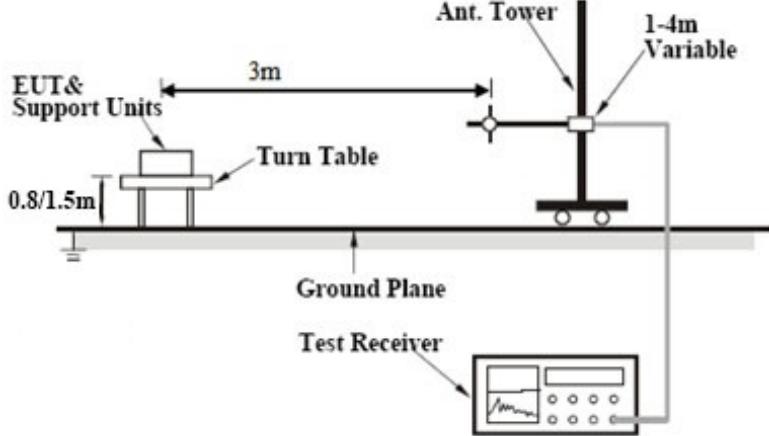




6.5 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	December 08, 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	 <p>The diagram illustrates the test setup. An 'EUT & Support Units' is positioned on a 'Turn Table' at a height of '0.8/1.5m' above a 'Ground Plane'. The turn table is connected to a 'Test Receiver' which displays a spectrum. A '3m' horizontal distance is marked between the EUT and a '1-4m Variable' height 'Ant. Tower' standing on the ground plane. The tower is connected to the turn table.</p>		
Test Procedure	<p>Radiated Method Only</p> <ul style="list-style-type: none"> - 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. - 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. - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, 		

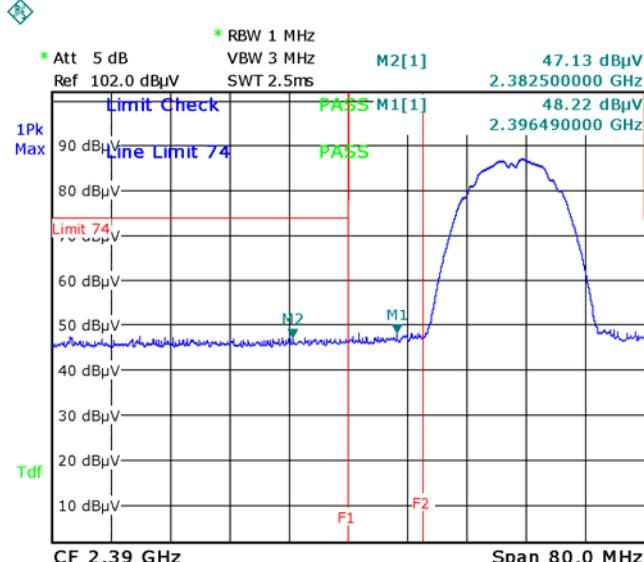
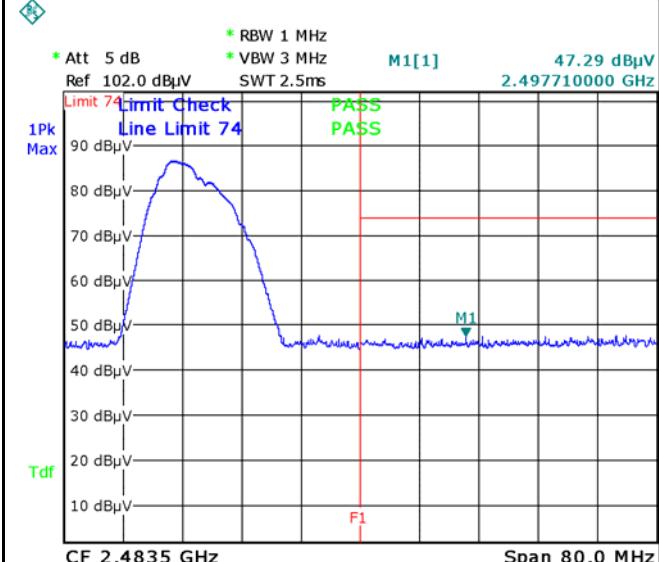
	<p>check the emission of EUT, if pass then set Spectrum Analyzer as below:</p> <ul style="list-style-type: none"> a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. 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. - 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. - 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

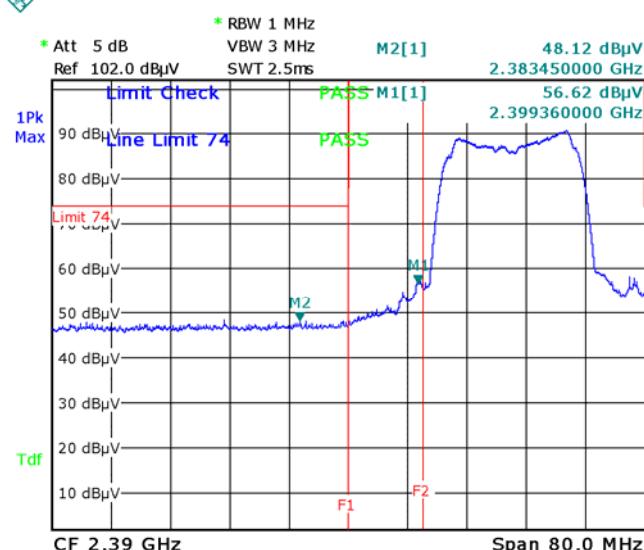
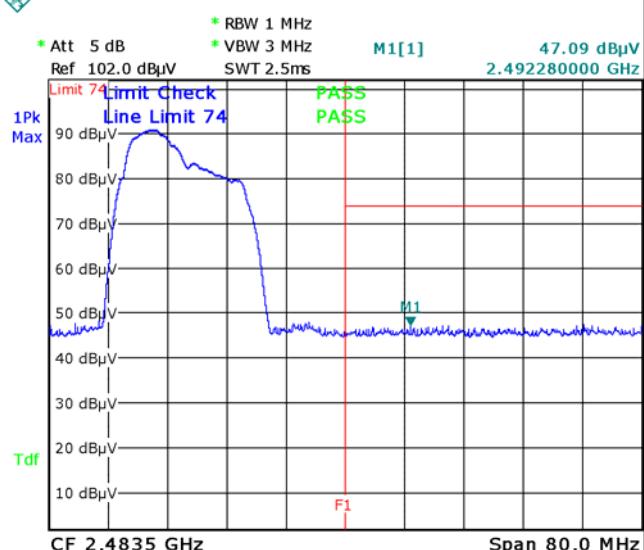
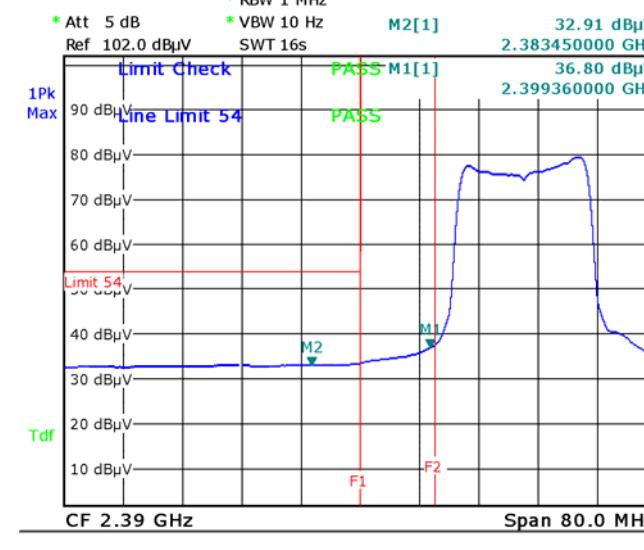
Test Data Yes N/A

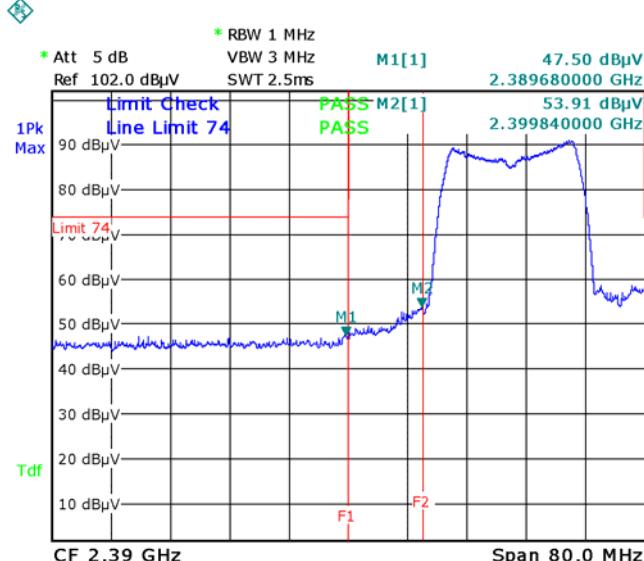
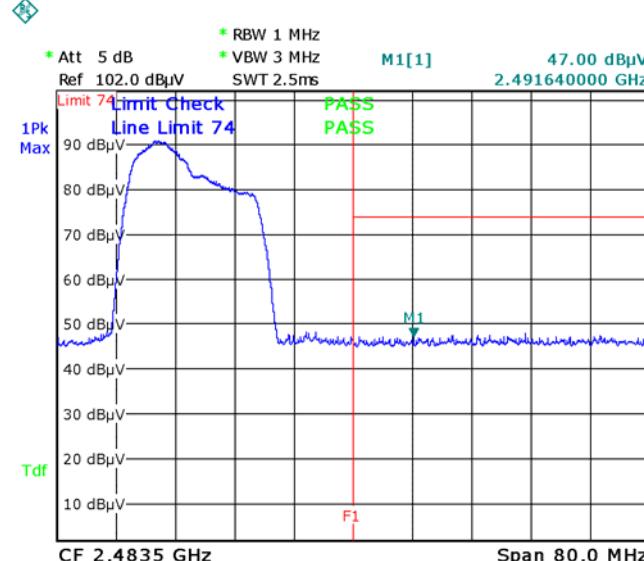
Test Plot Yes (See below) N/A

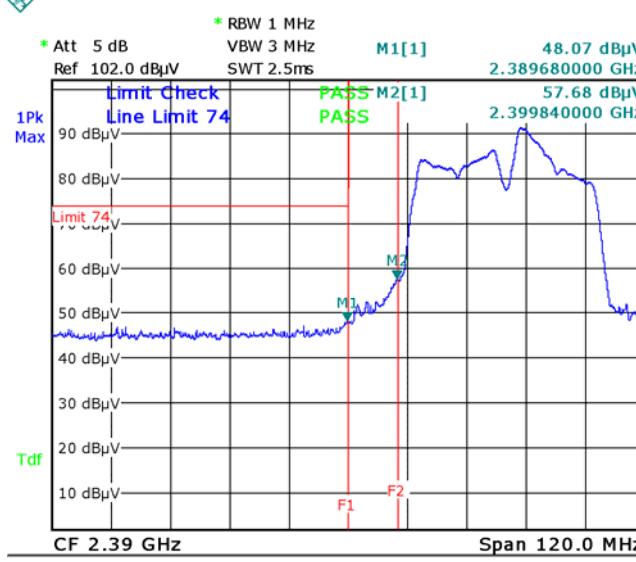
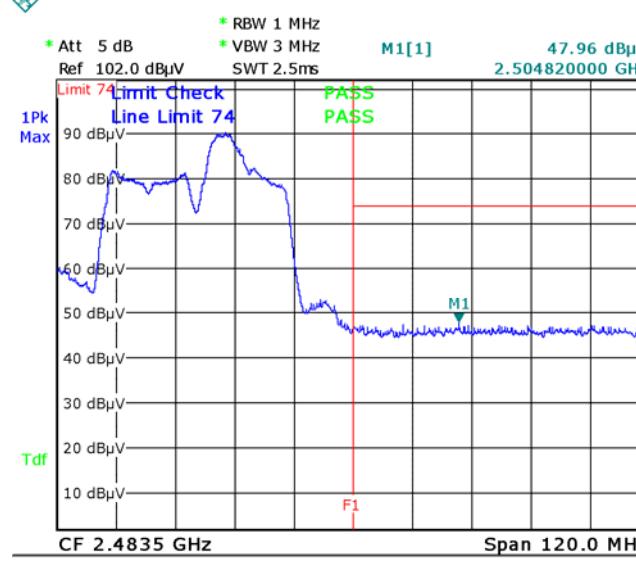
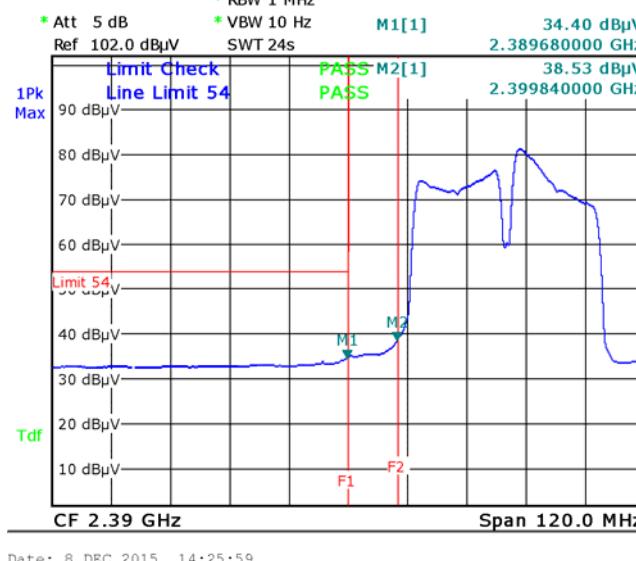
Test Plots

Band Edge measurement result

 <p>1Pk Max</p> <p>90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>CF 2.39 GHz</p> <p>Span 80.0 MHz</p> <p>Limit Check Line Limit 74 Limit 74</p> <p>M2[1]</p> <p>47.13 dBμV 2.38250000 GHz</p> <p>48.22 dBμV 2.396490000 GHz</p> <p>PASS M1[1]</p> <p>1Pk Max</p> <p>90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>CF 2.4835 GHz</p> <p>Span 80.0 MHz</p> <p>Limit Check Line Limit 74 Limit 74</p> <p>M1[1]</p> <p>47.29 dBμV 2.497710000 GHz</p> <p>PASS</p>	 <p>1Pk Max</p> <p>90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>CF 2.4835 GHz</p> <p>Span 80.0 MHz</p> <p>Limit Check Line Limit 74 Limit 74</p> <p>M1[1]</p> <p>47.29 dBμV 2.497710000 GHz</p> <p>PASS</p> <p>1Pk Max</p> <p>90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV</p> <p>CF 2.4835 GHz</p> <p>Span 80.0 MHz</p> <p>Limit Check Line Limit 74 Limit 74</p> <p>M1[1]</p> <p>47.29 dBμV 2.497710000 GHz</p> <p>PASS</p>
<p>Date: 8.DEC.2015 14:08:30</p> <p>Band Edge, Left Side (Peak) - 802.11b</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Date: 8.DEC.2015 14:28:19</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>

 <p>* RBW 1 MHz * Att 5 dB Ref 102.0 dBμV * VBW 3 MHz SWT 2.5ms</p> <p>M2[1] 48.12 dBμV 2.383450000 GHz</p> <p>1Pk Max 90 dBμV Line Limit 74 Tdf 56.62 dBμV 2.399360000 GHz</p> <p>Limit Check PASS M1[1]</p> <p>F1 F2</p> <p>CF 2.39 GHz Span 80.0 MHz</p> <p>Date: 8.DEC.2015 14:16:27</p>	 <p>* RBW 1 MHz * Att 5 dB Ref 102.0 dBμV * VBW 3 MHz SWT 2.5ms</p> <p>M1[1] 47.09 dBμV 2.492280000 GHz</p> <p>1Pk Max 90 dBμV Line Limit 74 Tdf 56.62 dBμV 2.399360000 GHz</p> <p>Limit 74 Limit Check Line Limit 74 PASS PASS</p> <p>F1</p> <p>CF 2.4835 GHz Span 80.0 MHz</p> <p>Date: 8.DEC.2015 14:30:05</p>
<p>Band Edge, Left Side (Peak) - 802.11g</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Peak) - 802.11g</p> <p>Note: F1 is frequency 2483.5MHz</p>
 <p>* RBW 1 MHz * Att 5 dB Ref 102.0 dBμV * VBW 10 Hz SWT 16s</p> <p>M2[1] 32.91 dBμV 2.383450000 GHz</p> <p>1Pk Max 90 dBμV Line Limit 54 Tdf 36.80 dBμV 2.399360000 GHz</p> <p>Limit 54 M2 M1</p> <p>F1 F2</p> <p>CF 2.39 GHz Span 80.0 MHz</p> <p>Date: 8.DEC.2015 14:17:10</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>

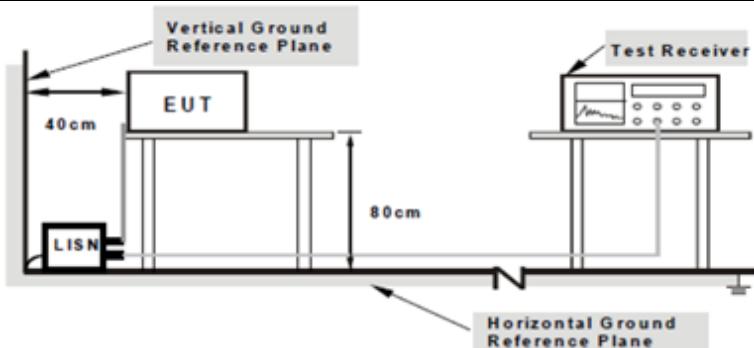
 <p>* RBW 1 MHz * Att 5 dB Ref 102.0 dBμV VBW 3 MHz SWT 2.5ms M1[1] 47.50 dBμV 2.389680000 GHz</p> <p>1Pk Max 90 dBμV 80 dBμV Limit 74 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV Tdf CF 2.39 GHz Span 80.0 MHz</p> <p>PASS M2[1] PASS</p>	 <p>* RBW 1 MHz * Att 5 dB Ref 102.0 dBμV VBW 3 MHz SWT 2.5ms M1[1] 47.00 dBμV 2.491640000 GHz</p> <p>1Pk Max 90 dBμV 80 dBμV Limit 74 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV Tdf CF 2.4835 GHz Span 80.0 MHz</p> <p>PASS PASS</p>
Date: 8.DEC.2015 14:21:35	Date: 8.DEC.2015 14:31:46
<p>Band Edge, Left Side (Peak) - 802.11n20</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Peak) - 802.11n20</p> <p>Note: F1 is frequency 2483.5MHz</p>
Note: (no need if PK value less than the AV limit)	Note: (no need if PK value less than the AV limit)
<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>

 <p>* RBW 1 MHz * Att 5 dB Ref 102.0 dBμV * VBW 3 MHz SWT 2.5ms M1[1] 48.07 dBμV 2.389680000 GHz</p> <p>1Pk Max Tdf</p> <p>Limit Check Line Limit 74 90 dBμV 80 dBμV Limit 74 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV F1 F2</p> <p>CF 2.39 GHz Span 120.0 MHz</p> <p>Date: 8.DEC.2015 14:23:29</p>	 <p>* RBW 1 MHz * Att 5 dB Ref 102.0 dBμV * VBW 3 MHz SWT 2.5ms M1[1] 47.96 dBμV 2.504820000 GHz</p> <p>1Pk Max Tdf</p> <p>Limit 74 Limit Check Line Limit 74 90 dBμV 80 dBμV 70 dBμV 60 dBμV 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV F1 M1</p> <p>CF 2.4835 GHz Span 120.0 MHz</p> <p>Date: 8.DEC.2015 14:33:52</p>
<p>Band Edge, Left Side (Peak) - 802.11n40</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Peak) - 802.11n40</p> <p>Note: F1 is frequency 2483.5MHz</p>
 <p>* RBW 1 MHz * Att 5 dB Ref 102.0 dBμV * VBW 10 Hz SWT 24s M1[1] 34.40 dBμV 2.399840000 GHz</p> <p>1Pk Max Tdf</p> <p>Limit Check Line Limit 54 90 dBμV 80 dBμV 70 dBμV 60 dBμV Limit 54 50 dBμV 40 dBμV 30 dBμV 20 dBμV 10 dBμV F1 F2</p> <p>CF 2.39 GHz Span 120.0 MHz</p> <p>Date: 8.DEC.2015 14:25:59</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p>Band Edge, Left Side (Average) - 802.11n40</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Band Edge, Right Side (Average) - 802.11n40</p> <p>Note: F1 is frequency 2483.5MHz</p>

6.6 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	December 08, 2015
Tested By :	Winnie Zhang

Requirement(s):

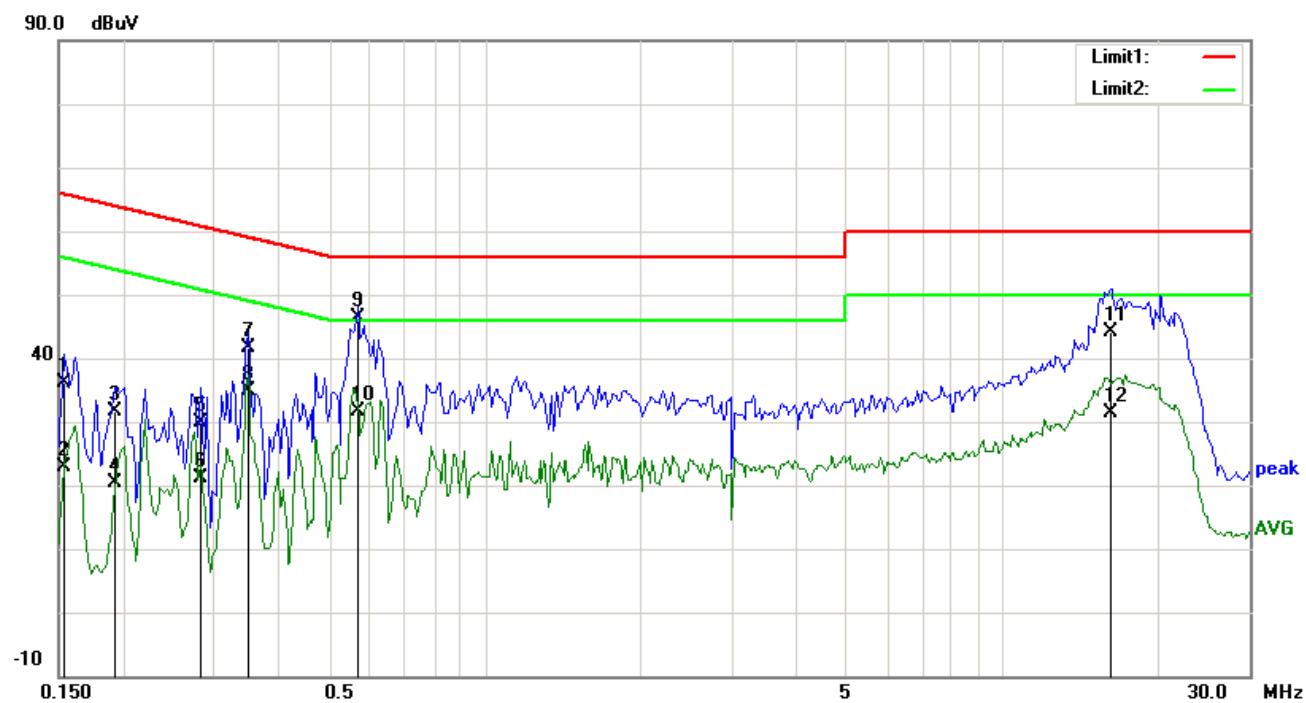
Spec	Item	Requirement	Applicable														
47CFR§15. 207, RSS210 (A8.1)	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within 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 (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 (dB μ 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 μ 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"> 1. 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. 2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 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
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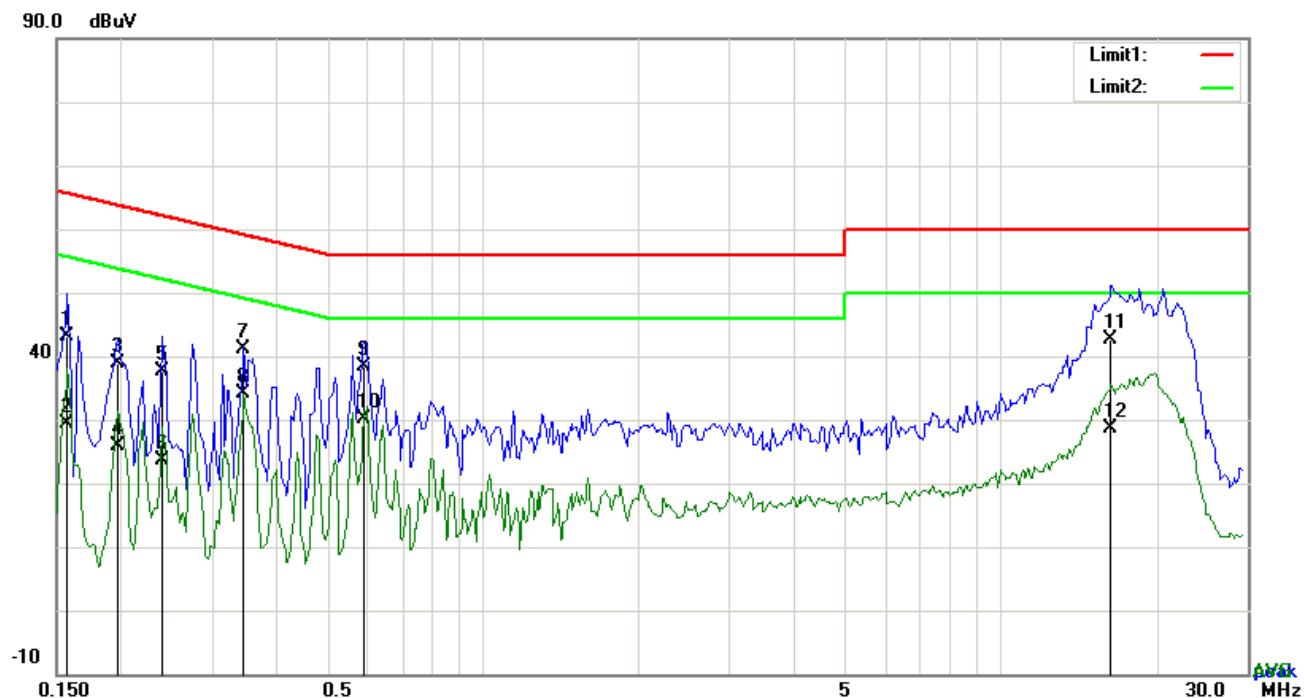


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)
1	L1	0.1539	22.85	QP	13.19	36.04	65.79	-29.75
2	L1	0.1539	9.80	AVG	13.19	22.99	55.79	-32.80
3	L1	0.1929	18.56	QP	13.04	31.60	63.91	-32.31
4	L1	0.1929	7.31	AVG	13.04	20.35	53.91	-33.56
5	L1	0.2826	17.11	QP	12.71	29.82	60.74	-30.92
6	L1	0.2826	8.40	AVG	12.71	21.11	50.74	-29.63
7	L1	0.3489	29.24	QP	12.46	41.70	58.99	-17.29
8	L1	0.3489	22.41	AVG	12.46	34.87	48.99	-14.12
9	L1	0.5673	34.64	QP	11.83	46.47	56.00	-9.53
10	L1	0.5673	19.85	AVG	11.83	31.68	46.00	-14.32
11	L1	16.2210	29.85	QP	14.38	44.23	60.00	-15.77
12	L1	16.2210	16.91	AVG	14.38	31.29	50.00	-18.71

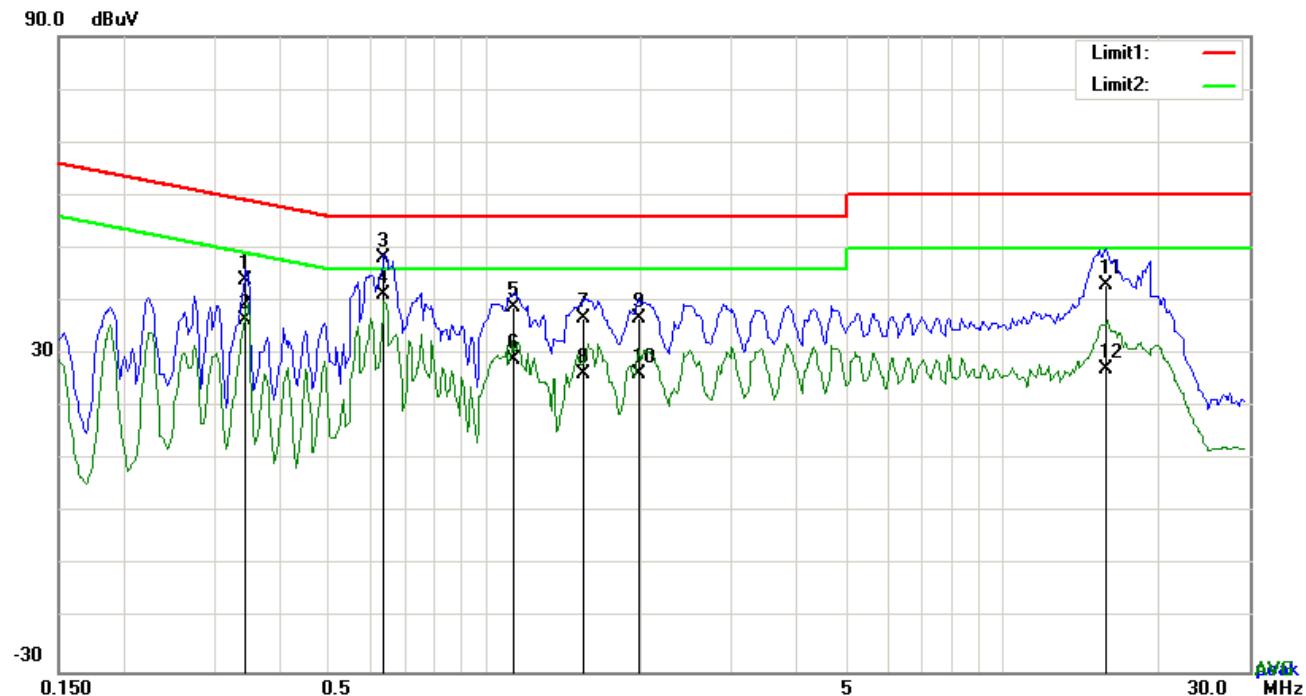
Test Mode: Transmitting Mode



Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)
1	N	0.1578	30.02	QP	13.17	43.19	65.58	-22.39
2	N	0.1578	16.27	AVG	13.17	29.44	55.58	-26.14
3	N	0.1968	25.81	QP	13.03	38.84	63.74	-24.90
4	N	0.1968	12.87	AVG	13.03	25.90	53.74	-27.84
5	N	0.2397	24.84	QP	12.87	37.71	62.11	-24.40
6	N	0.2397	10.73	AVG	12.87	23.60	52.11	-28.51
7	N	0.3450	28.67	QP	12.48	41.15	59.08	-17.93
8	N	0.3450	21.77	AVG	12.48	34.25	49.08	-14.83
9	N	0.5907	26.50	QP	11.81	38.31	56.00	-17.69
10	N	0.5907	18.20	AVG	11.81	30.01	46.00	-15.99
11	N	16.3536	28.28	QP	14.41	42.69	60.00	-17.31
12	N	16.3536	14.15	AVG	14.41	28.56	50.00	-21.44

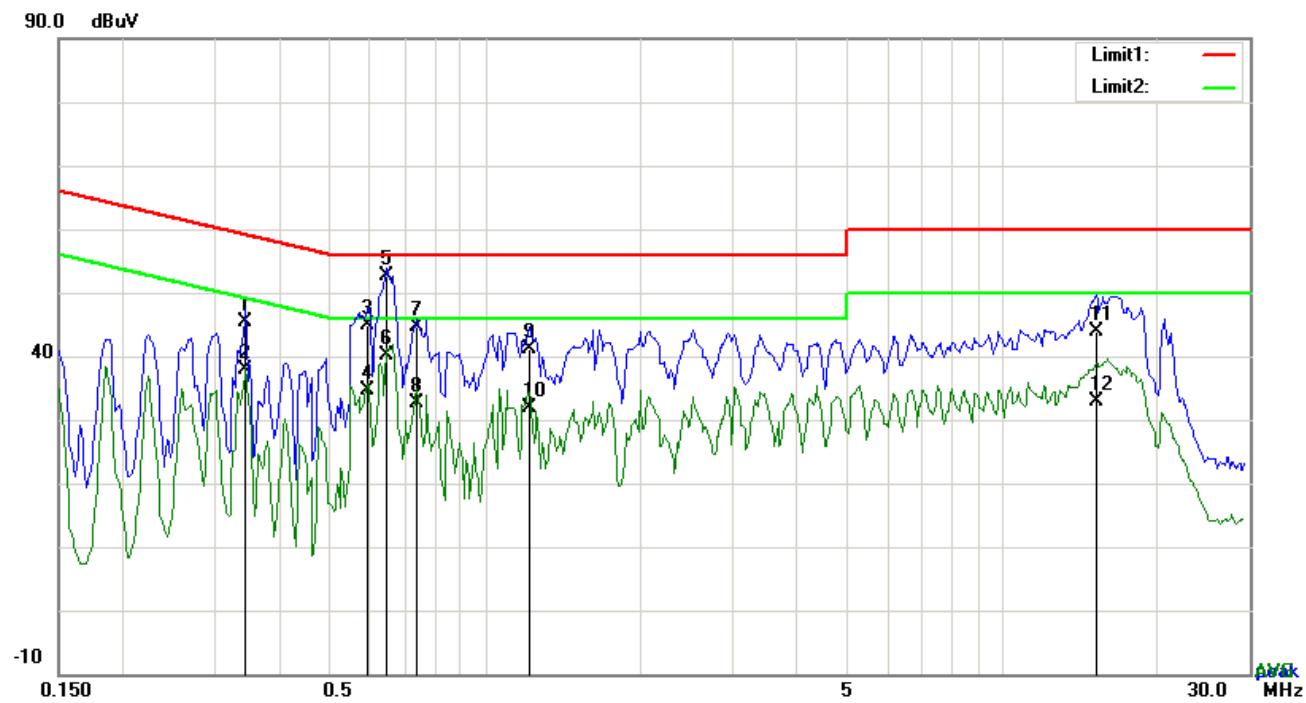
Test Mode:
Transmitting Mode


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)
1	L1	0.3450	33.79	QP	10.03	43.82	59.08	-15.26
2	L1	0.3450	26.42	AVG	10.03	36.45	49.08	-12.63
3	L1	0.6375	38.02	QP	10.03	48.05	56.00	-7.95
4	L1	0.6375	31.07	AVG	10.03	41.10	46.00	-4.90
5	L1	1.1406	28.90	QP	10.03	38.93	56.00	-17.07
6	L1	1.1406	18.84	AVG	10.03	28.87	46.00	-17.13
7	L1	1.5579	26.64	QP	10.04	36.68	56.00	-19.32
8	L1	1.5579	16.09	AVG	10.04	26.13	46.00	-19.87
9	L1	1.9830	26.69	QP	10.04	36.73	56.00	-19.27
10	L1	1.9830	16.07	AVG	10.04	26.11	46.00	-19.89
11	L1	15.8154	32.93	QP	10.24	43.17	60.00	-16.83
12	L1	15.8154	16.82	AVG	10.24	27.06	50.00	-22.94

Test Mode: Transmitting Mode



Test Data

Phase Neutral Plot at 240Vac, 60Hz

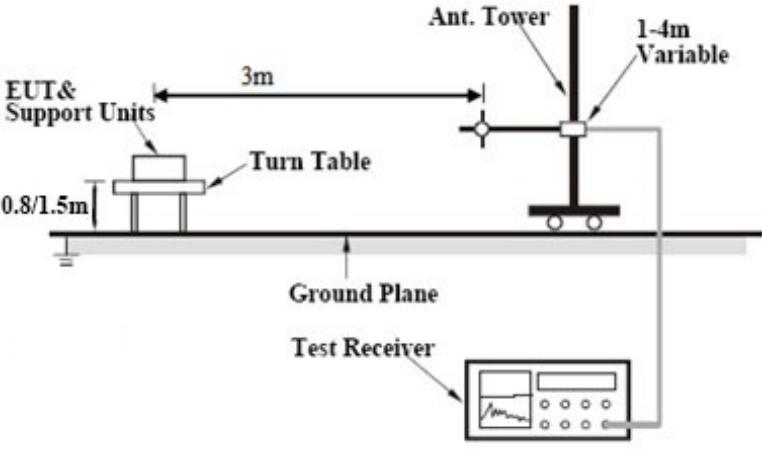
No.	P/L	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)
1	N	0.3450	32.96	QP	12.48	45.44	59.08	-13.64
2	N	0.3450	25.40	AVG	12.48	37.88	49.08	-11.20
3	N	0.5946	33.06	QP	11.81	44.87	56.00	-11.13
4	N	0.5946	22.74	AVG	11.81	34.55	46.00	-11.45
5	N	0.6453	40.79	QP	11.75	52.54	56.00	-3.46
6	N	0.6453	28.45	AVG	11.75	40.20	46.00	-5.80
7	N	0.7389	32.91	QP	11.66	44.57	56.00	-11.43
8	N	0.7389	20.97	AVG	11.66	32.63	46.00	-13.37
9	N	1.2186	29.71	QP	11.43	41.14	56.00	-14.86
10	N	1.2186	20.35	AVG	11.43	31.78	46.00	-14.22
11	N	15.1992	29.71	QP	14.19	43.90	60.00	-16.10
12	N	15.1992	18.61	AVG	14.19	32.80	50.00	-17.20

6.7 Radiated Emissions

Temperature	23°C
Relative Humidity	55%
Atmospheric Pressure	1003mbar
Test date :	December 03, 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 (μ V/m)	30 – 88	100	88 – 216	150	216 – 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength (μ 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"/>											

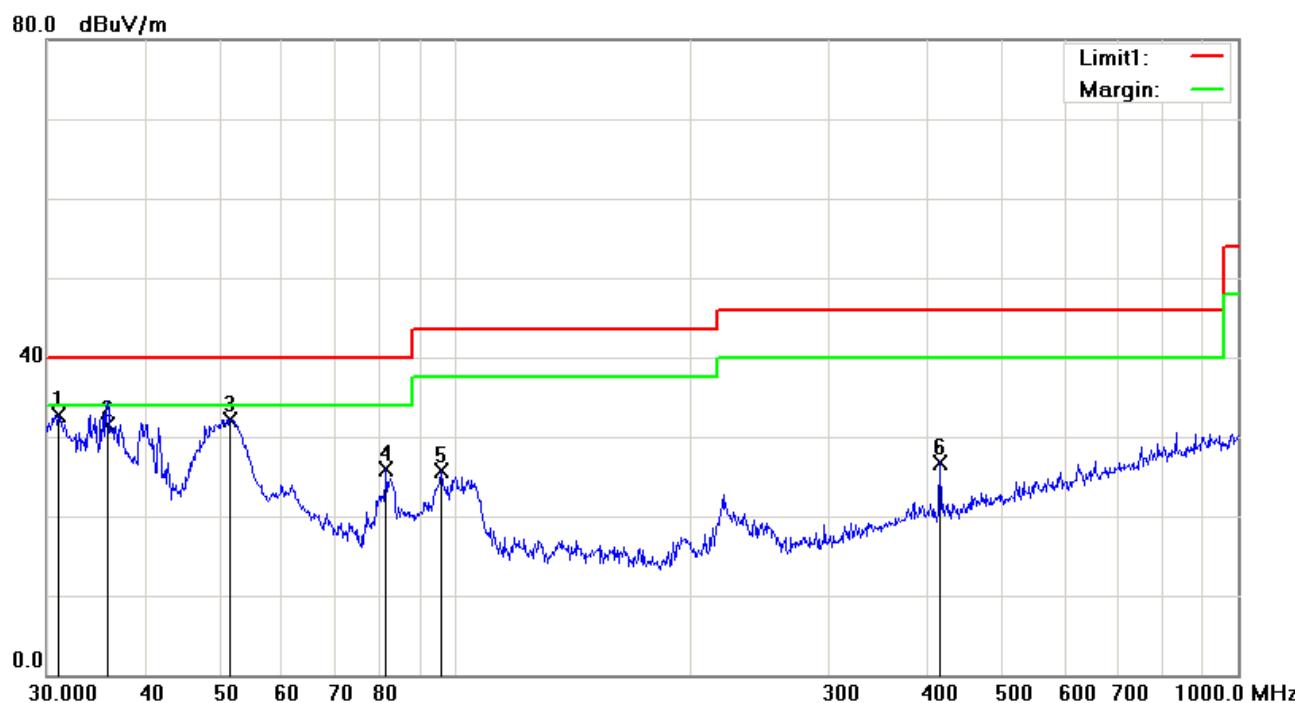
Test Setup	 <p>The diagram illustrates the test setup. An EUT & Support Units assembly is mounted on a Turn Table, which is positioned on a Ground Plane. The Turn Table is 0.8/1.5m from the ground plane. A vertical Ant. Tower is connected to the turn table via a horizontal crossbar. The tower has a height of 1-4m Variable. A Test Receiver is connected to the turn table, and its signal is processed by a spectrum analyzer.</p>
Procedure	<ol style="list-style-type: none"> 1. The EUT was switched on and allowed to warm up to its normal operating condition. 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"> a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. 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. 5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
Remark	<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>
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)

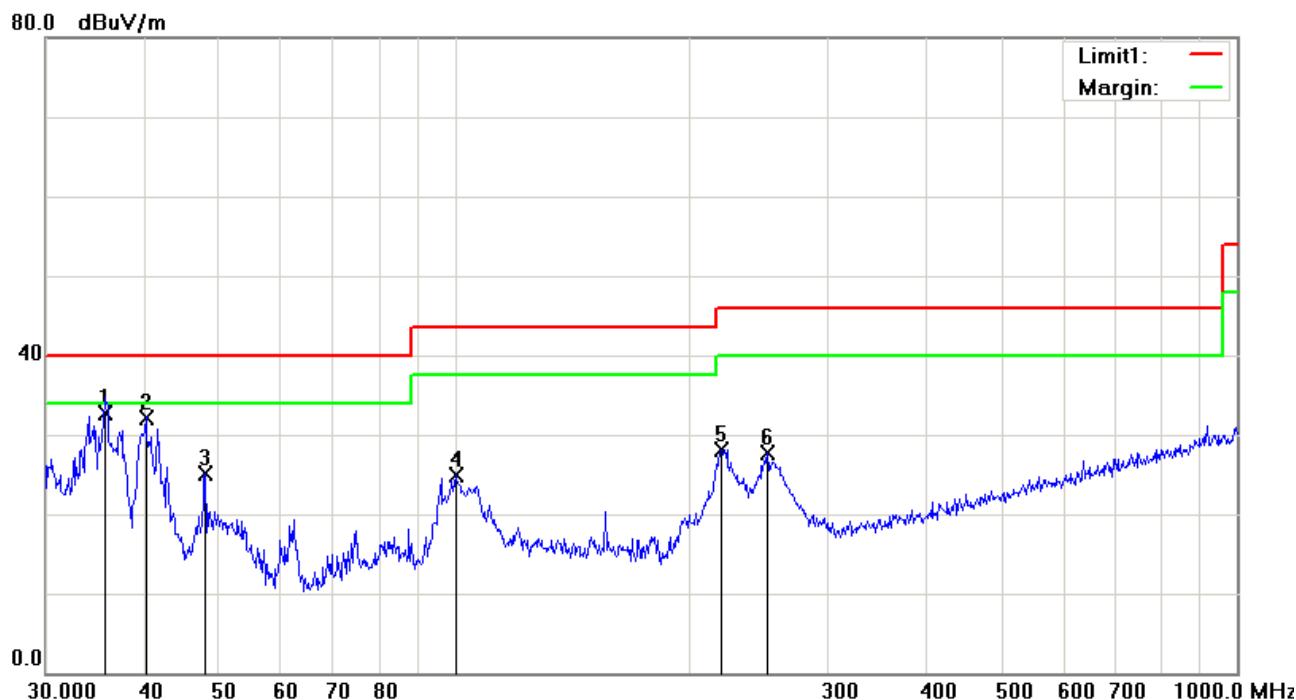


Test Data

Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Height	Degree
1	V	31.0706	33.77	peak	-1.04	32.73	40.00	-7.27	100	192
2	V	35.8747	36.01	QP	-4.58	31.43	40.00	-8.57	100	192
3	V	51.4807	45.53	peak	-13.35	32.18	40.00	-7.82	100	357
4	V	81.4970	39.54	peak	-13.69	25.85	40.00	-14.15	100	121
5	V	95.7622	37.54	peak	-11.93	25.61	43.50	-17.89	100	259
6	V	416.1791	30.71	peak	-3.91	26.80	46.00	-19.20	100	128

(Below 1GHz)



Test Data

Horizontal Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Height	Degree
1	H	35.7491	37.24	QP	-4.49	32.75	40.00	-7.25	100	235
2	H	40.2757	39.97	peak	-7.77	32.20	40.00	-7.80	100	179
3	H	47.9940	37.29	peak	-12.28	25.01	40.00	-14.99	100	89
4	H	100.2286	35.72	peak	-10.76	24.96	43.50	-18.54	100	205
5	H	219.0753	37.12	peak	-8.92	28.20	46.00	-17.80	100	261
6	H	251.1804	36.80	peak	-9.14	27.66	46.00	-18.34	100	190

Above 1GHz

Test Mode:	Transmitting Mode
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Low Channel (2412 MHz)

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4824	38.73	AV	V	34	6.86	31.72	47.87	54	-6.13
4824	38.39	AV	H	33.8	6.86	31.72	47.33	54	-6.67
4824	46.52	PK	V	34	6.86	31.72	55.66	74	-18.34
4824	46.16	PK	H	33.8	6.86	31.72	55.1	74	-18.9

Middle Channel (2437 MHz)

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4874	38.67	AV	V	33.6	6.82	31.82	47.27	54	-6.73
4874	38.42	AV	H	33.8	6.82	31.82	47.22	54	-6.78
4874	46.48	PK	V	33.6	6.82	31.82	55.08	74	-18.92
4874	46.23	PK	H	33.8	6.82	31.82	55.03	74	-18.97

High Channel (2462 MHz)

Frequency (MHz)	S.A. Reading (dB μ V)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4924	38.75	AV	V	34.6	6.76	31.92	48.19	54	-5.81
4924	38.31	AV	H	34.7	6.76	31.92	47.85	54	-6.15
4924	46.59	PK	V	34.6	6.76	31.92	56.03	74	-17.97
4924	46.15	PK	H	34.7	6.76	31.92	55.69	74	-18.31

Note:

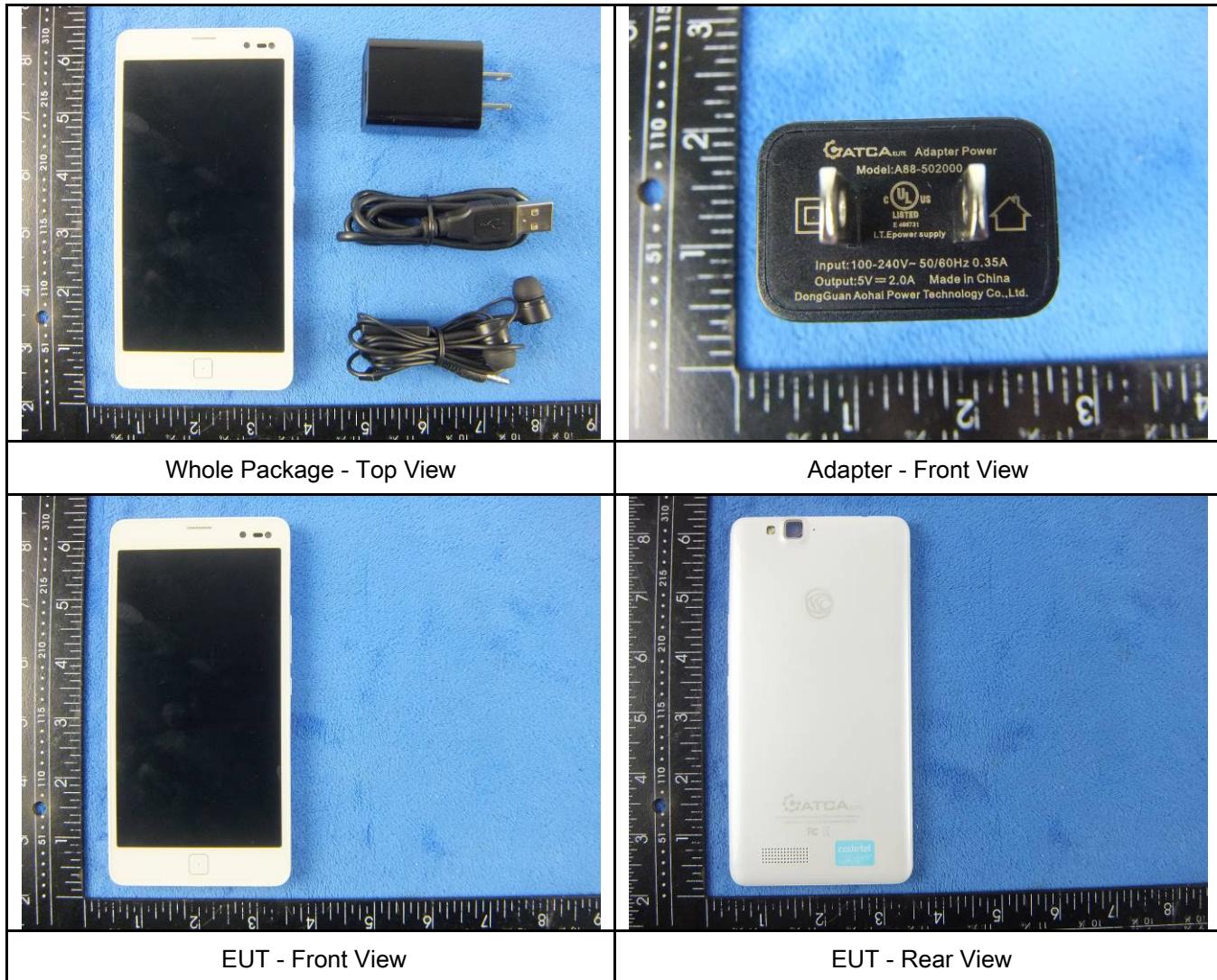
- 1, The testing has been conformed to 10*2462MHz=24,620MHz
- 2, All other emissions more than 30 dB below the limit

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
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"/>
RF conducted test					
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"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	<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	09/23/2016	<input checked="" type="checkbox"/>

Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

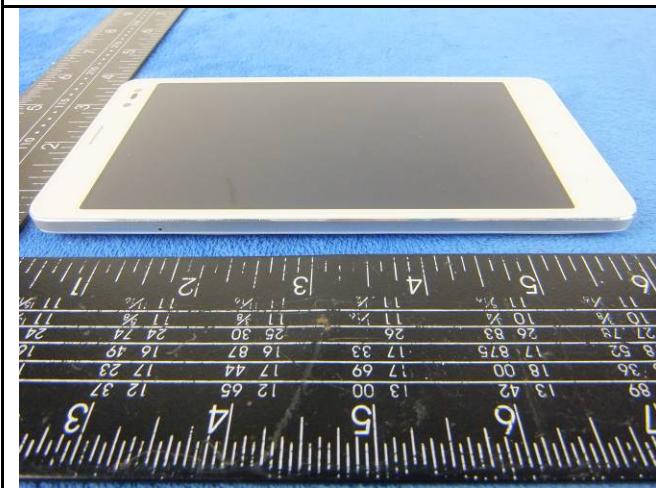




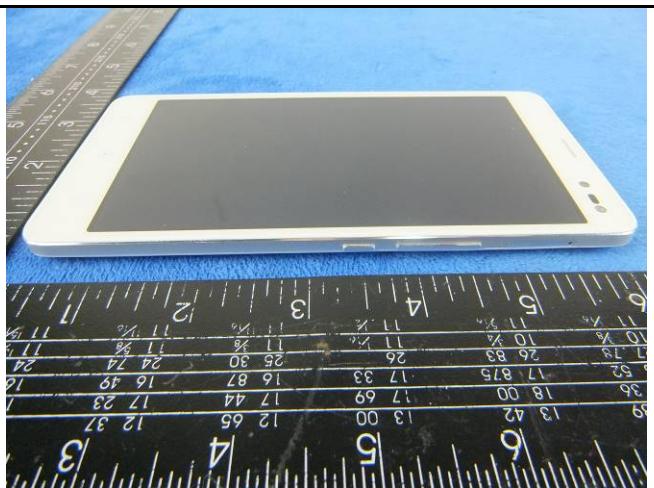
EUT - Top View



EUT - Bottom View



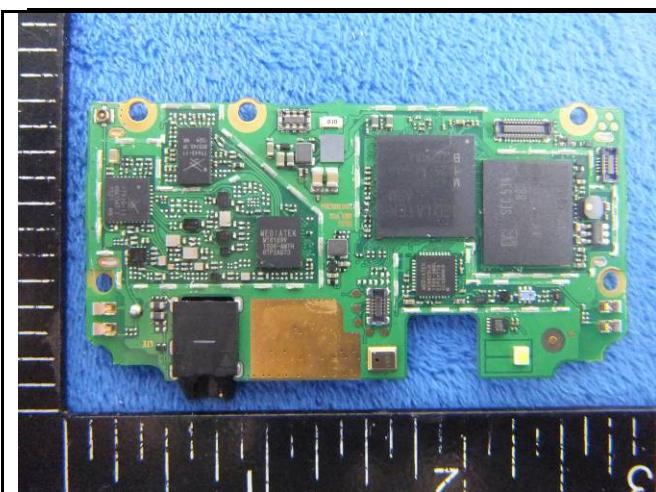
EUT - Left View



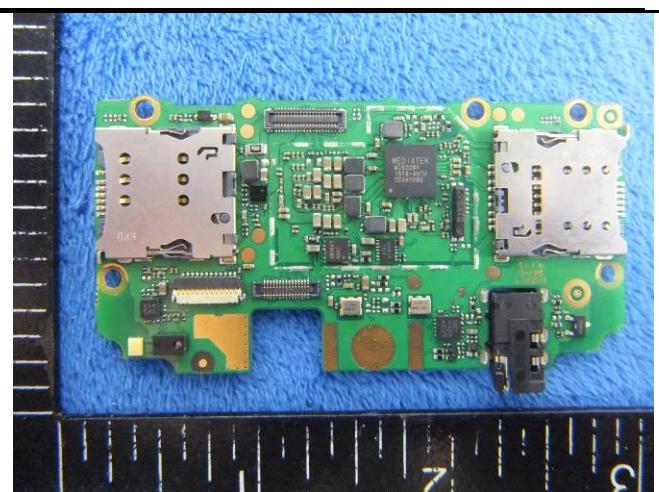
EUT - Right View

Annex B.ii. Photograph: EUT Internal Photo





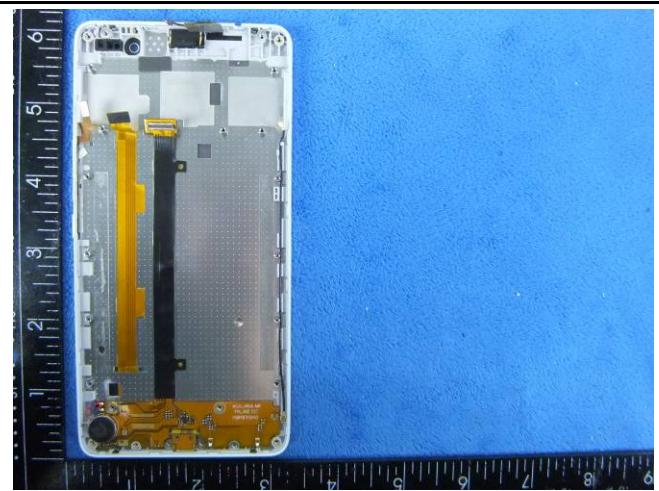
Mainboard without shielding - Front View



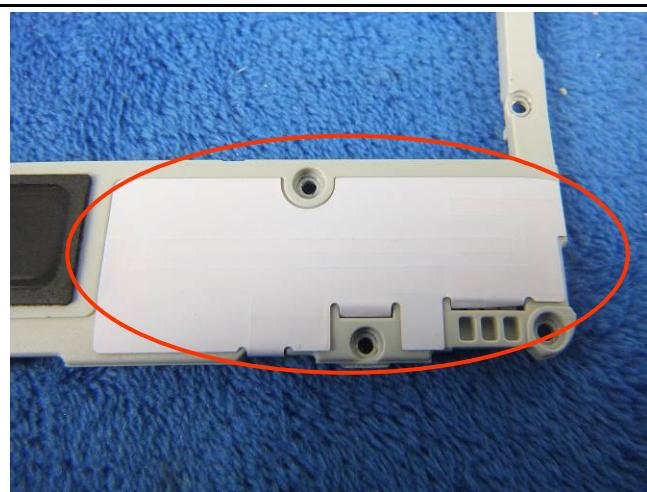
Mainboard without shielding - Rear View



LCD – Front View



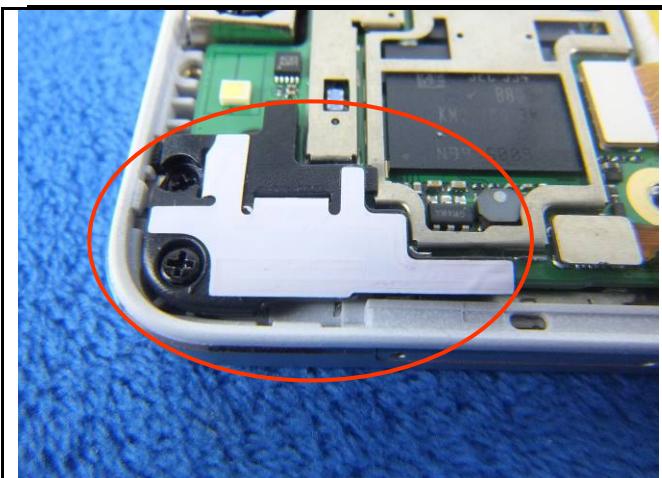
LCD – Rear View



GSM/PCS/UMTS-FDD - Antenna View

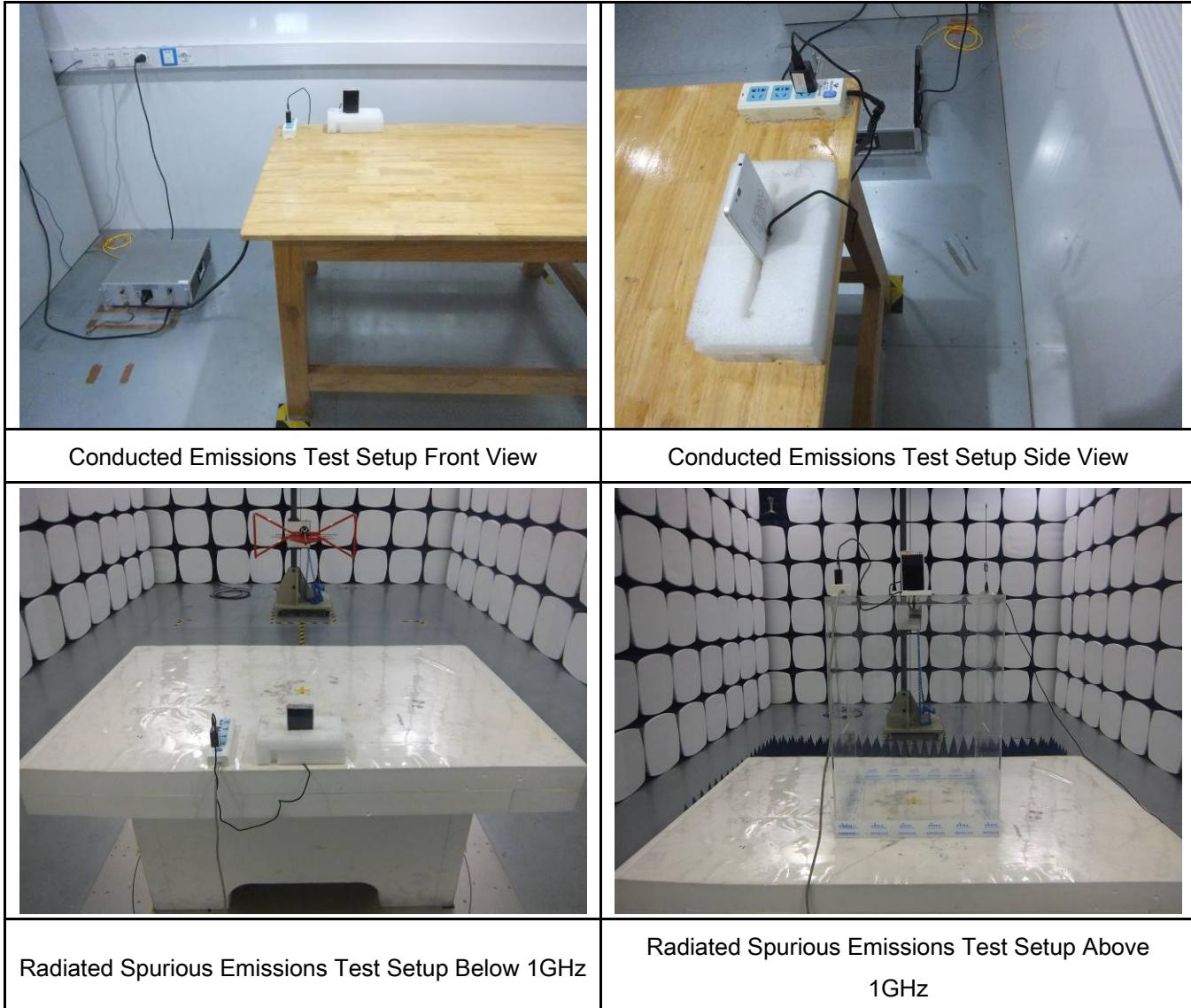


LTE - Antenna View



WIFI/BT/BLE/GPS - Antenna View

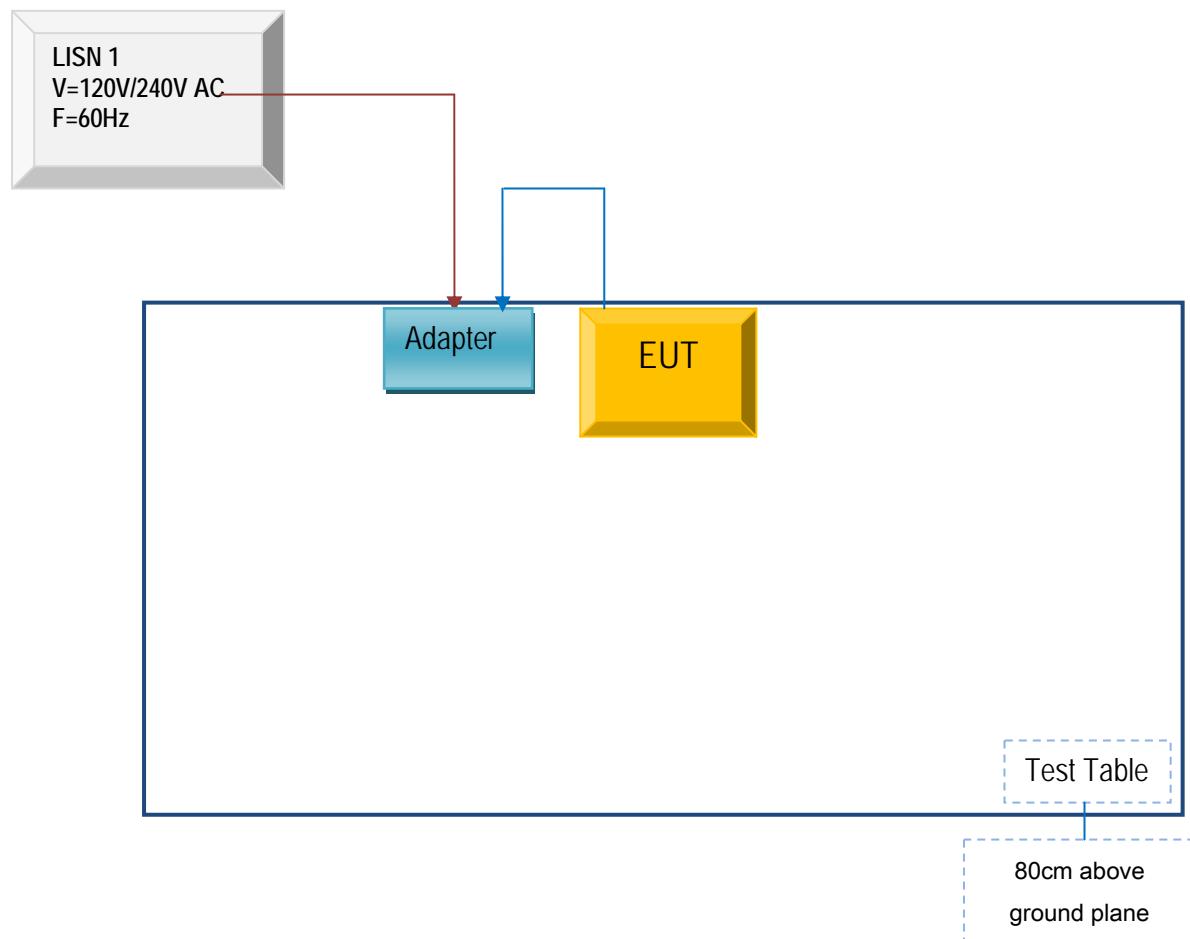
Annex B.iii. Photograph: Test Setup Photo



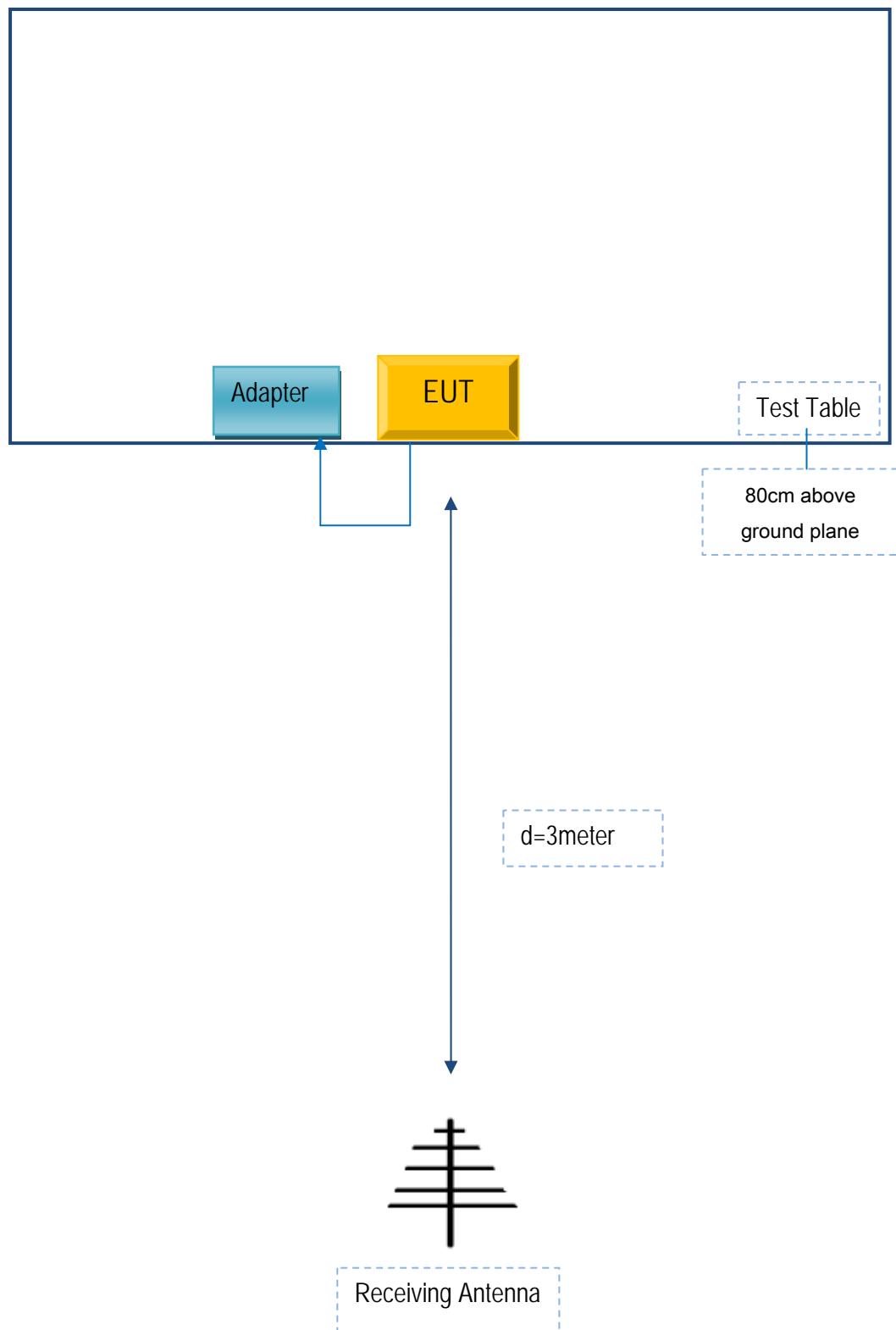
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

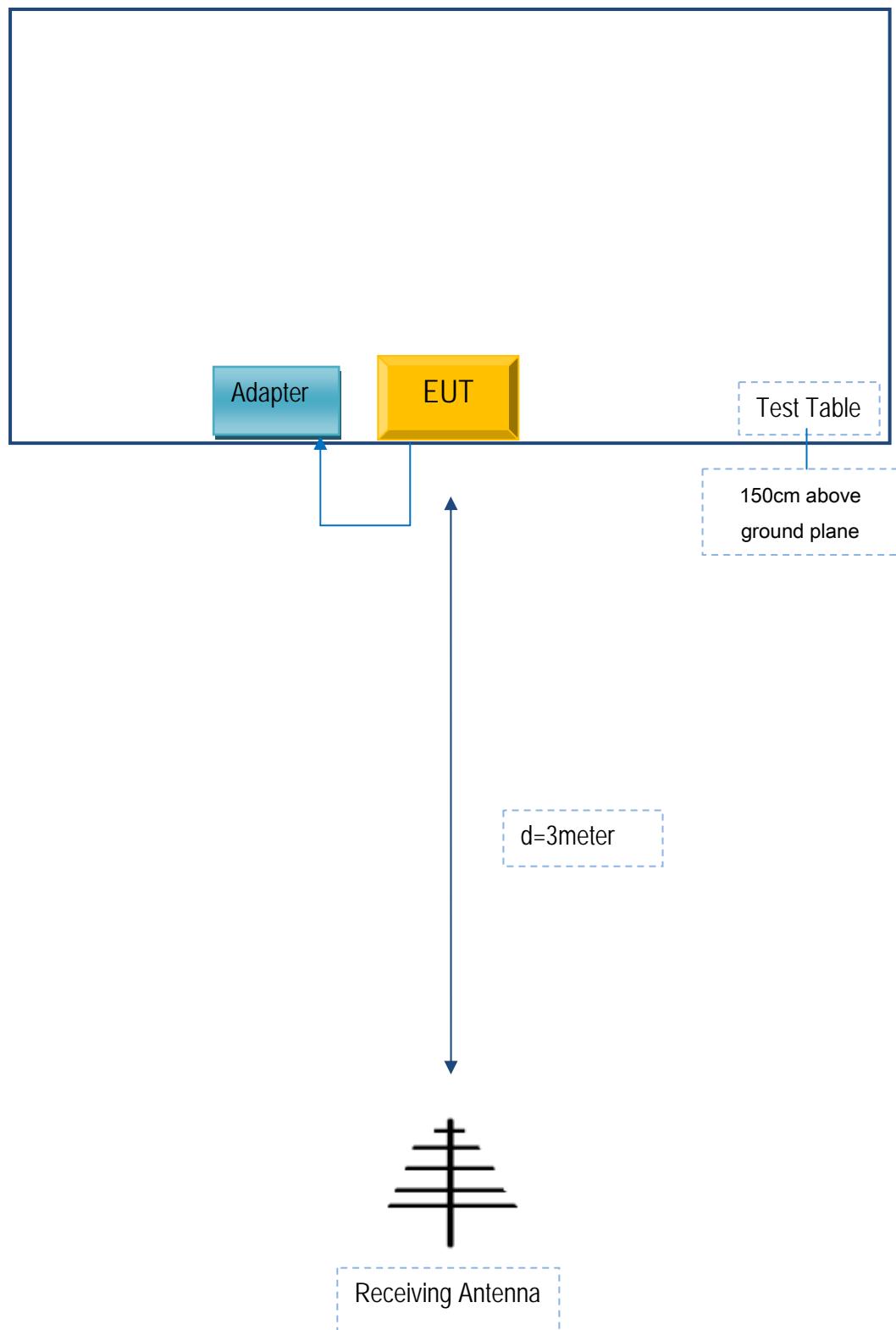
Block Configuration Diagram for AC Line Conducted Emissions



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.

Manufacturer	Equipment Description	Model	Serial No
MACATE GROUP CORPORATION	Adapter	A88- 502000	CN15020403

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	JX120051317

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

Please see attachment

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Annex E. DECLARATION OF SIMILARITY

N/A