

RF TEST REPORT



Report No.: 15070273-FCC-R3

Supersede Report No.: N/A

Applicant	Social Mobile Telecommunications	
Product Name	PHONE	
Model No.	X301	
Serial No.	Vapor	
Test Standard	FCC Part 15.247: 2014, ANSI C63.10: 2013	
Test Date	April 17 to April 27, 2015	
Issue Date	May 08, 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"/>
Wiky.Jam	Chris You	
Wiky.Jam Test Engineer	Chris You 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

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn

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

Test Report No.	15070273-FCC-R3
Page	3 of 49

This page has been left blank intentionally.

CONTENTS

1. REPORT REVISION HISTORY	5
2. CUSTOMER INFORMATION	5
3. TEST SITE INFORMATION.....	5
4. EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5. TEST SUMMARY	8
6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
6.1 ANTENNA REQUIREMENT.....	9
6.2 DTS (6 DB&20 DB) CHANNEL BANDWIDTH.....	10
6.3 MAXIMUM OUTPUT POWER	16
6.4 POWER SPECTRAL DENSITY.....	20
6.5 BAND-EDGE & UNWANTED EMISSIONS INTO NON-RESTRICTED FREQUENCY BANDS.....	24
6.6 AC POWER LINE CONDUCTED EMISSIONS.....	30
6.7 RADIATED SPURIOUS EMISSIONS	34
ANNEX A. TEST INSTRUMENT.....	39
ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS.....	40
ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....	45
ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	48
ANNEX E. DECLARATION OF SIMILARITY	49

1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070273-FCC-R3	NONE	Original	May 08, 2015

2. Customer information

Applicant Name	Social Mobile Telecommunications
Applicant Add	16400 NW 2nd Ave. #201 Miami, Florida 33169
Manufacturer	SMT TELECOMM HK LIMITED
Manufacturer Add	Unit C 8/F, CHARMHILL CTR 50 HILLWOOD RD TST KL

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: PHONE

Main Model: X301

Serial Model: Vapor

Date EUT received: April 15, 2015

Test Date(s): April 17 to April 27, 2015

Equipment Category : DTS

GSM850: 0.8 dBi

PCS1900: -1 dBi

Antenna Gain:	UMTS-FDD Band V: -0.7dBi
	UMTS-FDD Band II: -0.9dBi
	Bluetooth/BLE: -0.5dBi
	WIFI: -0.5 dBi

GSM / GPRS: GMSK

EGPRS: GMSK, 8PSK

Type of Modulation:	UMTS-FDD: QPSK, 16QAM
	802.11b/g/n: DSSS, OFDM
	Bluetooth: GFSK, $\pi/4$ DQPSK
	BLE: GFSK

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;

RF Operating Frequency (ies): RX: 1932.4 ~ 1987.6 MHz
UMTS-FDD Band IV TX :1712.4 ~ 1752.6 MHz;
RX : 2112.4 ~ 2152.6 MHz
WIFI:802.11b/g/n(20M): 2412-2462 MHz
WIFI:802.11n(40M): 2422-2452 MHz
Bluetooth& BLE: 2402-2480 MHz

Max. Output Power:
802.11b: 9.41dBm
802.11g: 9.30dBm
802.11n(20M): 9.44dBm
802.11n(40M): 8.34dBm

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

Port: Power Port, Earphone Port, USB Port

Battery:
Model: BP X301
Spec: 3.7V 1200mAh 4.44Wh
Charging Limit Voltage:4.2V
Input Power:
Adapter:
Model: PC X301
Input: AC 100-240V; 50/60Hz 0.15A Max
Output: DC 5.0V; 0.5A

Trade Name : Vapor

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

FCC ID: 2ACLMX301V

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 2 antennas:

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

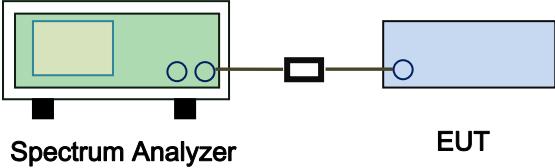
A permanently attached PIFA antenna for GSM and UMTS, the gain is 0.8dBi for GSM850, -0.7dBi for UMTS-FDD Band V, -1dBi for PCS1900, the gain is -0.9dBi for UMTS-FDD Band II

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 DTS (6 dB&20 dB) Channel Bandwidth

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1017mbar
Test date :	April 17, 2015
Tested By :	Wiky.Jam

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 v03r02, 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

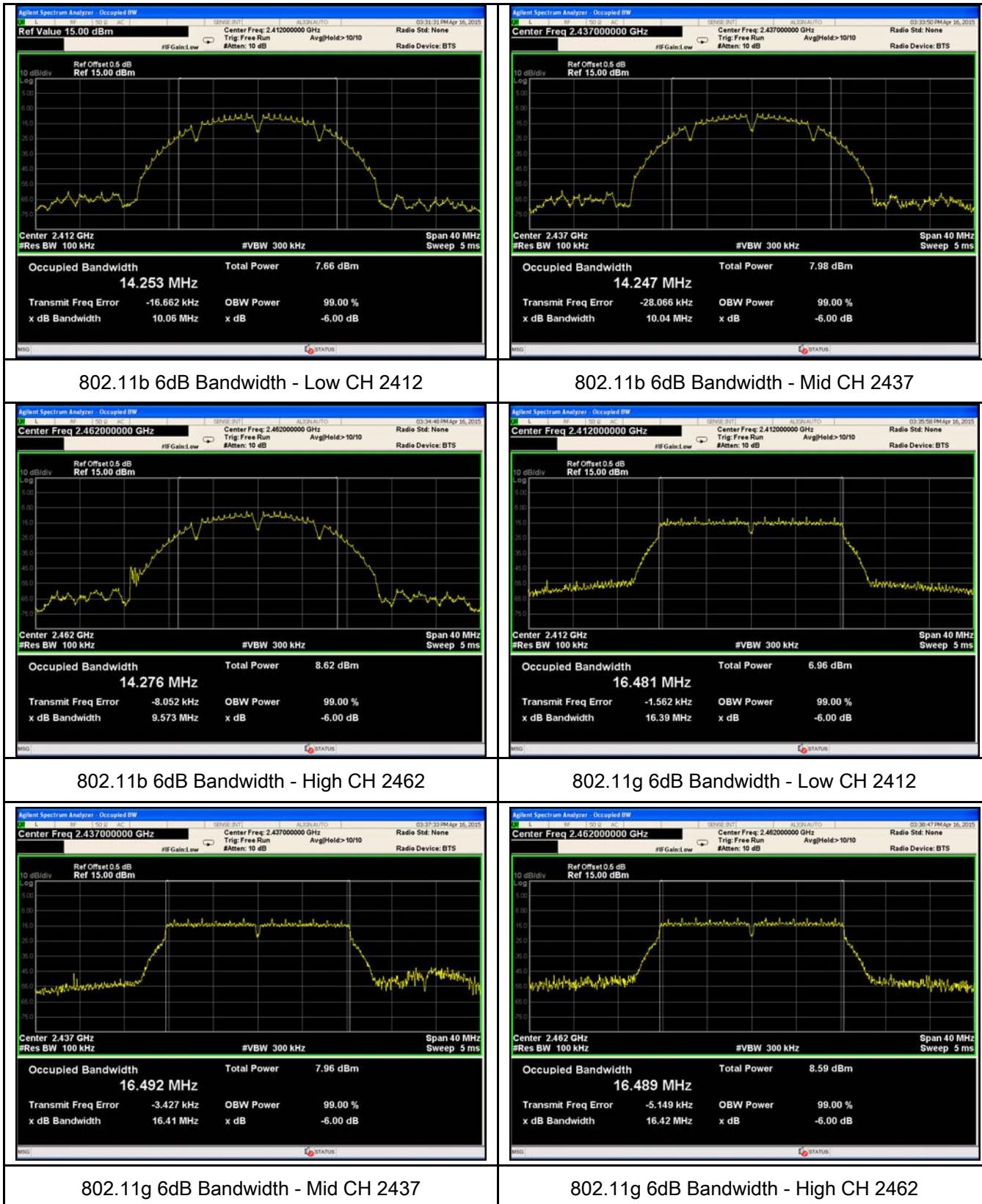
Test Plot Yes (See below) N/A

Measurement result

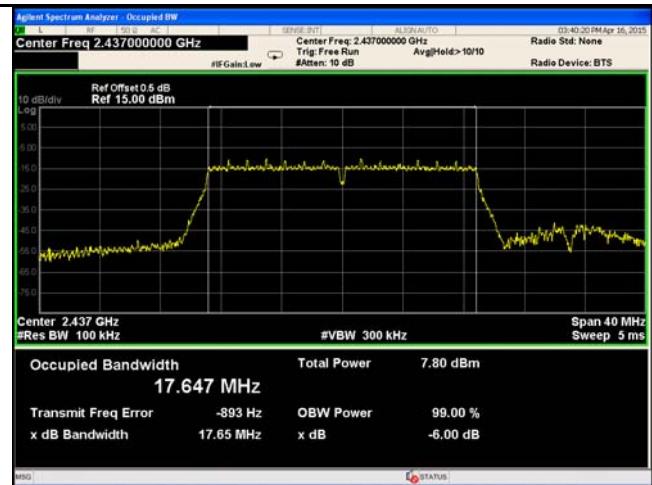
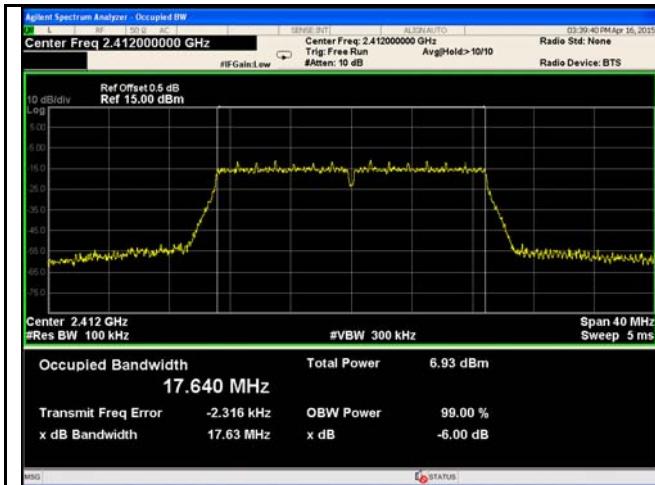
Test mode	CH	Freq (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	10.06	16.27	≥ 0.5
	Mid	2437	10.04	16.30	≥ 0.5
	High	2462	9.57	16.31	≥ 0.5
802.11g	Low	2412	16.39	18.96	≥ 0.5
	Mid	2437	16.41	19.04	≥ 0.5
	High	2462	16.42	19.49	≥ 0.5
802.11n (20M)	Low	2412	17.63	19.52	≥ 0.5
	Mid	2437	17.65	19.37	≥ 0.5
	High	2462	17.63	19.56	≥ 0.5
802.11n (40M)	Low	2422	36.37	38.29	≥ 0.5
	Mid	2437	36.33	38.33	≥ 0.5
	High	2452	36.36	38.24	≥ 0.5

Test Plots

6dB Bandwidth measurement result

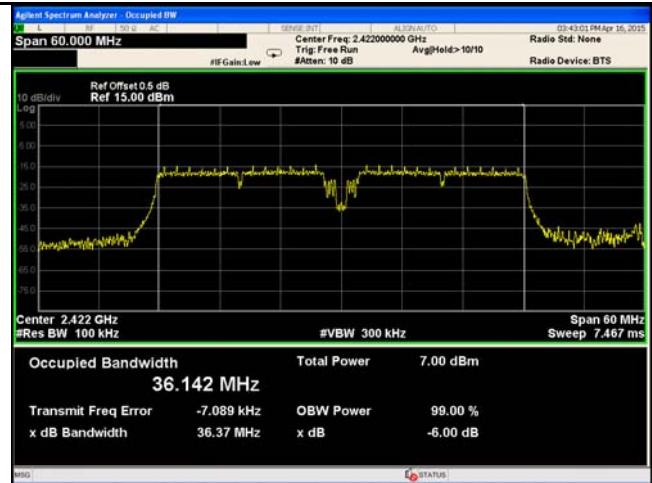
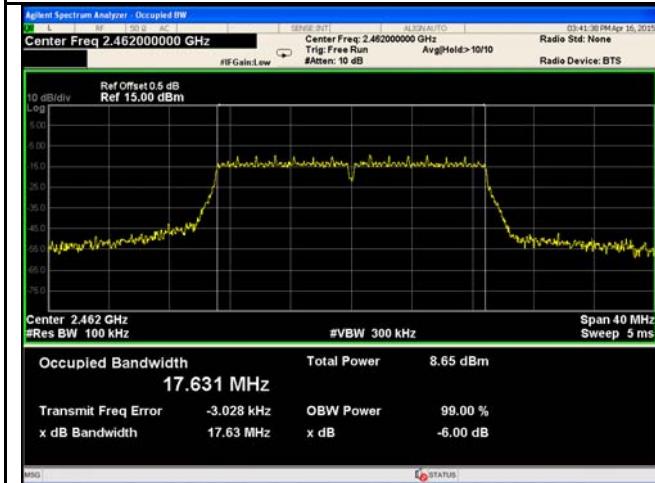


Test Report No.	15070273-FCC-R3
Page	13 of 49



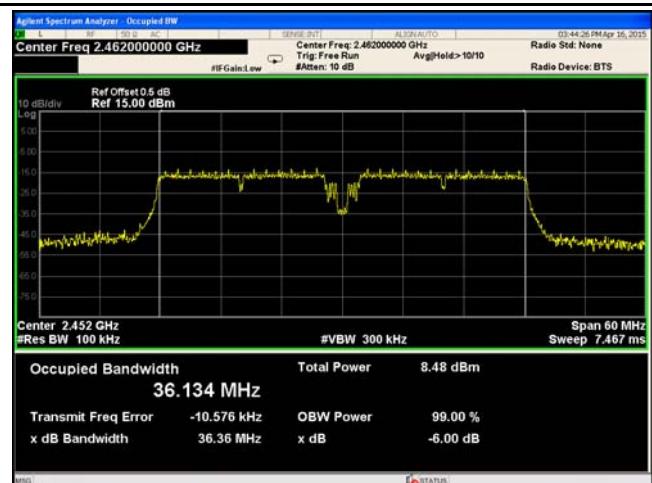
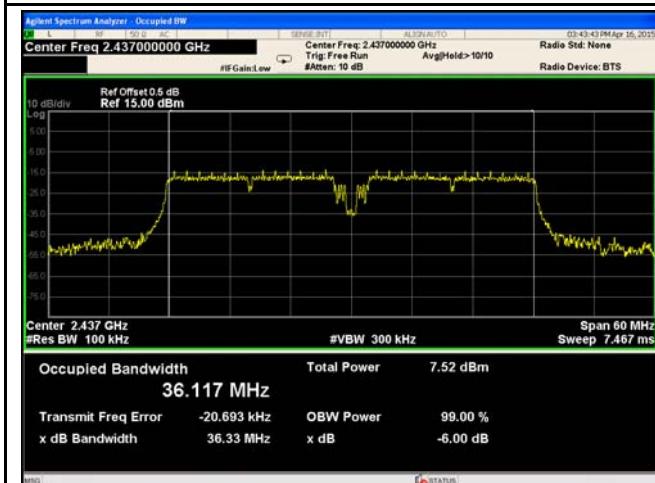
802.11n20 6dB Bandwidth - Low CH 2412

802.11n20 6dB Bandwidth - Mid CH 2437



802.11n20 6dB Bandwidth - High CH 2462

802.11n40 6dB Bandwidth - Low CH 2422



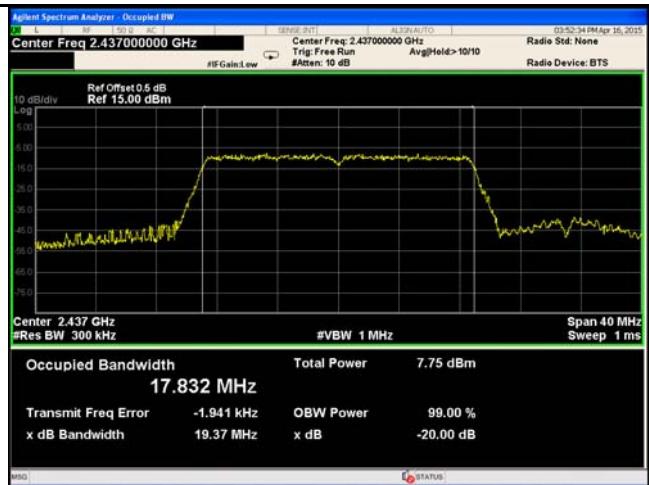
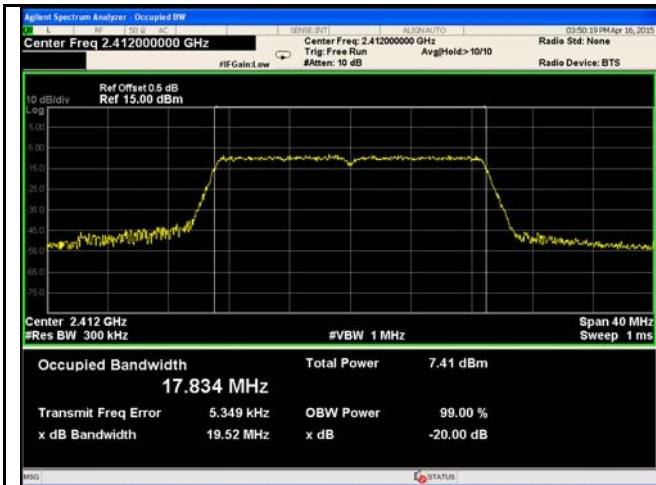
802.11n40 6dB Bandwidth - Mid CH 2437

802.11n40 6dB Bandwidth - High CH 2452

20 dB Bandwidth measurement result

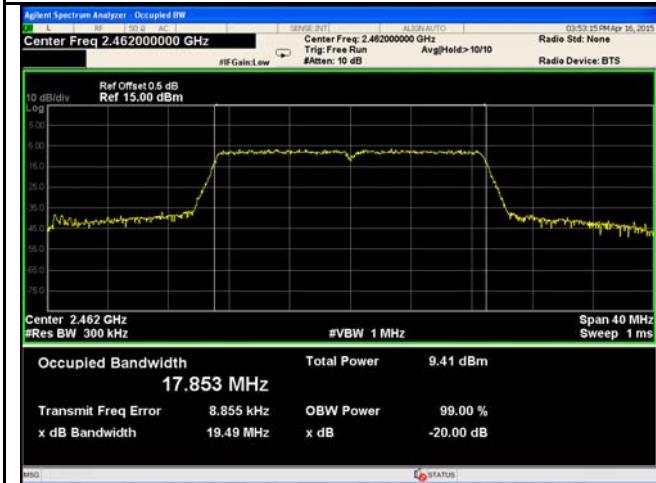
 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Ref Offset 0.5 dB Ref 15.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 14.229 MHz</p> <p>Total Power 4.86 dBm</p> <p>Transmit Freq Error -8.851 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.27 MHz x dB -20.00 dB</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset 0.5 dB Ref 15.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 14.242 MHz</p> <p>Total Power 5.66 dBm</p> <p>Transmit Freq Error -11.463 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.30 MHz x dB -20.00 dB</p>
<p>802.11b 20dB Bandwidth - Low CH 2412</p>  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset 0.5 dB Ref 15.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 14.255 MHz</p> <p>Total Power 6.24 dBm</p> <p>Transmit Freq Error 3.451 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.31 MHz x dB -20.00 dB</p>	<p>802.11b 20dB Bandwidth - Mid CH 2437</p>  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Ref Offset 0.5 dB Ref 15.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.846 MHz</p> <p>Total Power 7.10 dBm</p> <p>Transmit Freq Error 3.956 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 18.96 MHz x dB -20.00 dB</p>
<p>802.11b 20dB Bandwidth - High CH 2462</p>  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset 0.5 dB Ref 15.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.871 MHz</p> <p>Total Power 8.00 dBm</p> <p>Transmit Freq Error -3.392 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 19.04 MHz x dB -20.00 dB</p>	<p>802.11g 20dB Bandwidth - Low CH 2412</p>  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset 0.5 dB Ref 15.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.864 MHz</p> <p>Total Power 9.16 dBm</p> <p>Transmit Freq Error 13.240 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 19.09 MHz x dB -20.00 dB</p>
<p>802.11g 20dB Bandwidth - Mid CH 2437</p>	<p>802.11g 20dB Bandwidth - High CH 2462</p>

Test Report No.	15070273-FCC-R3
Page	15 of 49



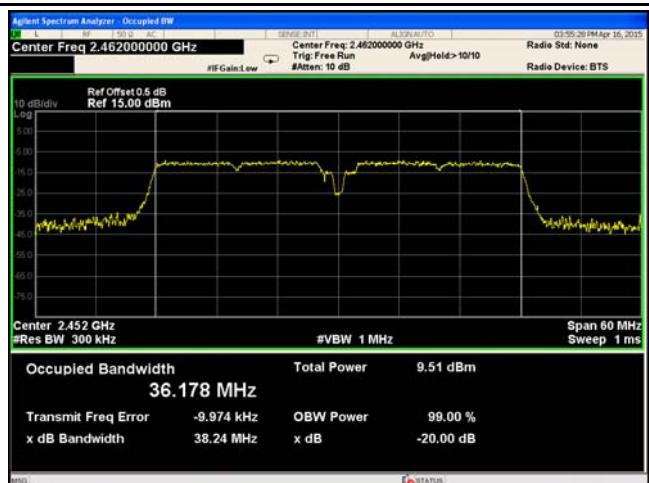
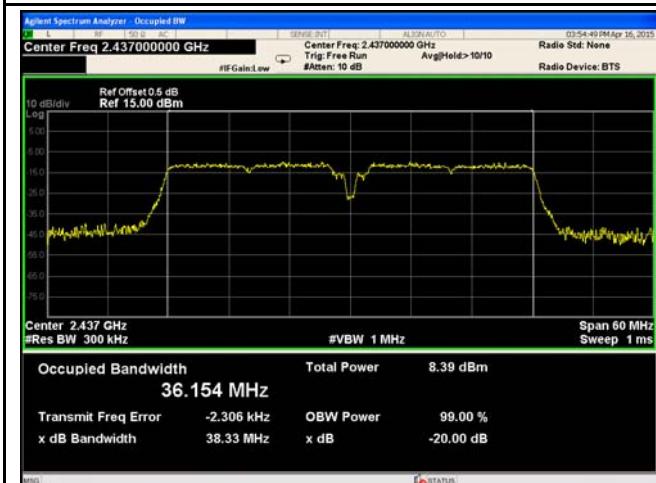
802.11n20 20dB Bandwidth - Low CH 2412

802.11n20 20dB Bandwidth - Mid CH 2437



802.11n20 20dB Bandwidth - High CH 2462

802.11n40 20dB Bandwidth - Low CH 2422



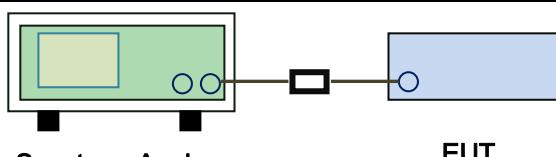
802.11n40 20dB Bandwidth - Mid CH 2437

802.11n40 20dB Bandwidth - High CH 2452

6.3 Maximum Output Power

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1017mbar
Test date :	April17, 2015
Tested By :	Wiky.Jam

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (2),	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		 Spectrum Analyzer EUT	
Test Procedure		<p>558074 D01 DTS MEAS Guidance v03r02, 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 	

	<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 $\geq 98\%$, 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

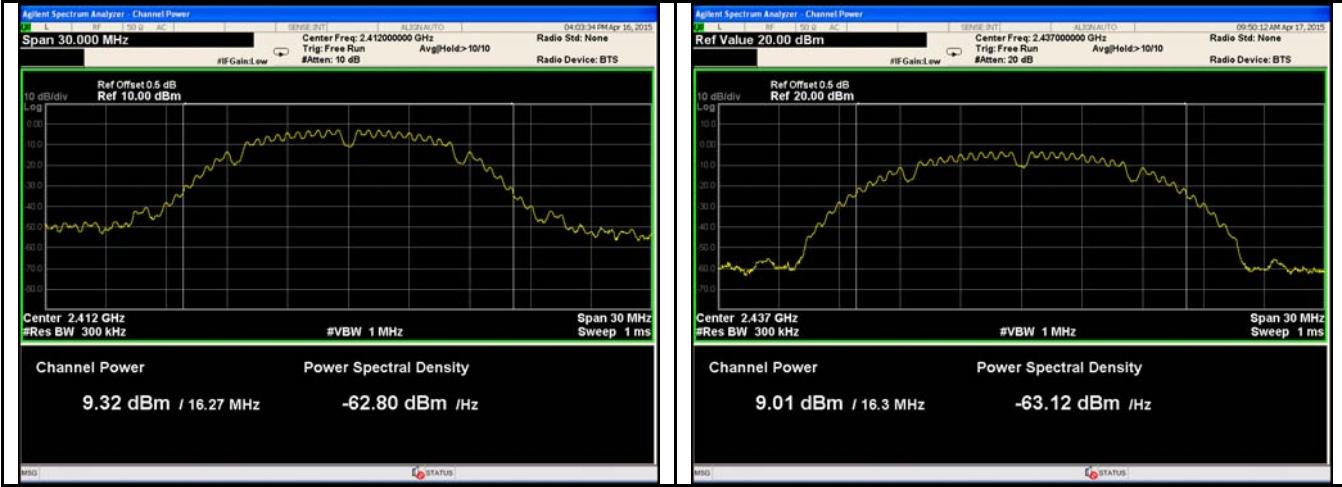
Test Plot Yes (See below) N/A

Output Power measurement result

Type	Test mode	CH	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output power	802.11b	Low	2412	9.32	30	Pass
		Mid	2437	9.01	30	Pass
		High	2462	9.41	30	Pass
	802.11g	Low	2412	9.28	30	Pass
		Mid	2437	9.12	30	Pass
		High	2462	9.30	30	Pass
	802.11n (20M)	Low	2412	9.44	30	Pass
		Mid	2437	9.15	30	Pass
		High	2462	9.33	30	Pass
	802.11n (40M)	Low	2422	8.16	30	Pass
		Mid	2437	8.22	30	Pass
		High	2452	8.34	30	Pass

Test Plots

The Average Power



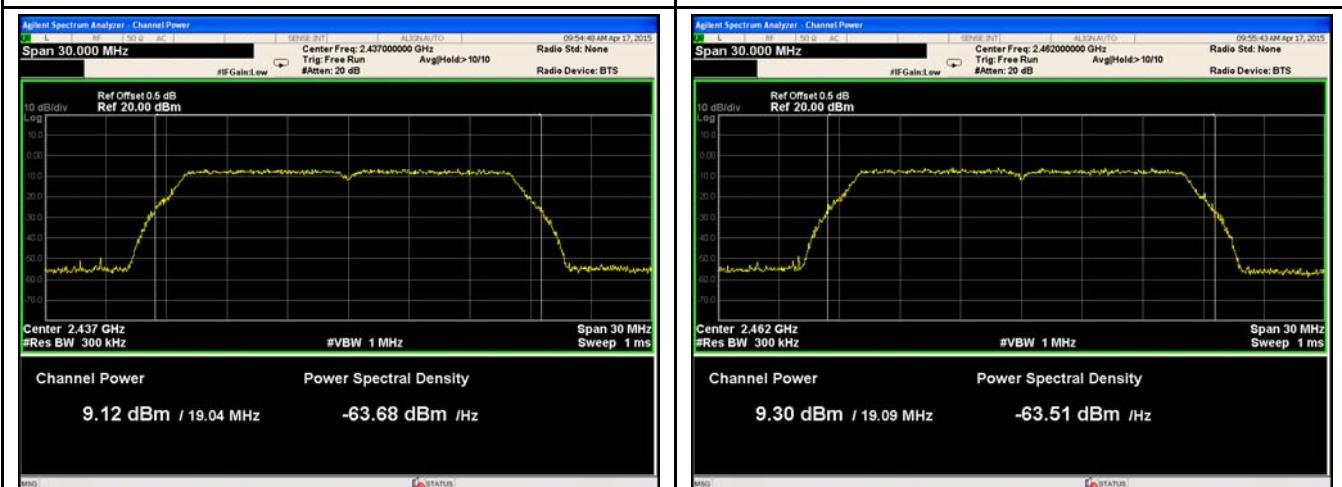
802.11b - AV Output power - Low CH 2412

802.11b - AV Output power - Mid CH 2437



802.11b - AV Output power - High CH 2462

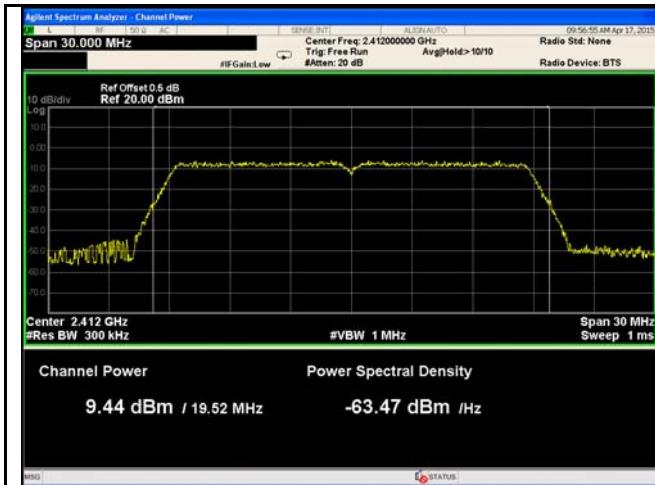
802.11g - AV Output power - Low CH 2412



802.11g - AV Output power - Mid CH 2437

802.11g - AV Output power - High CH 2462

Test Report No.	15070273-FCC-R3
Page	19 of 49



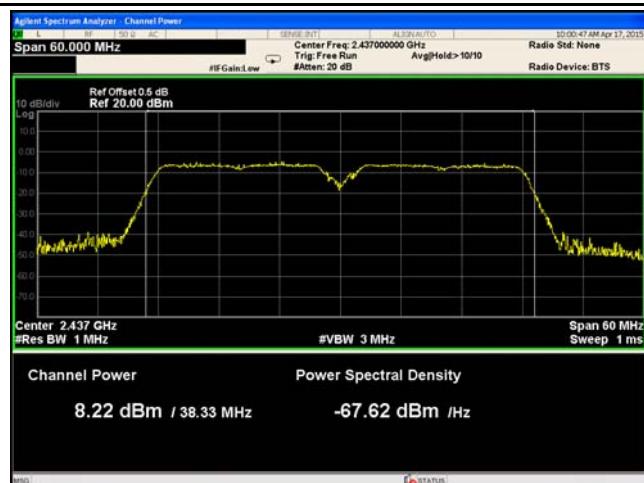
802.11n20 - AV Output power - Low CH 2412



802.11n20 - AV Output power - Mid CH 2437



802.11n20 - AV Output power - High CH 2462



802.11n40 - AV Output power - Low CH 2422

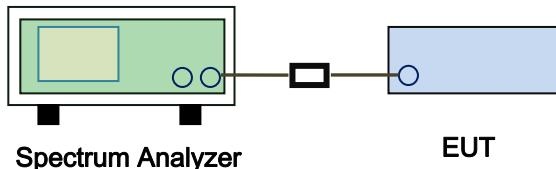


802.11n40 - AV Output power - Mid CH 2437

802.11n40 - AV Output power - High CH 2452

6.4 Power Spectral Density

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1017mbar
Test date :	April17, 2015
Tested By :	Wiky.Jam

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 v03r02, 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		

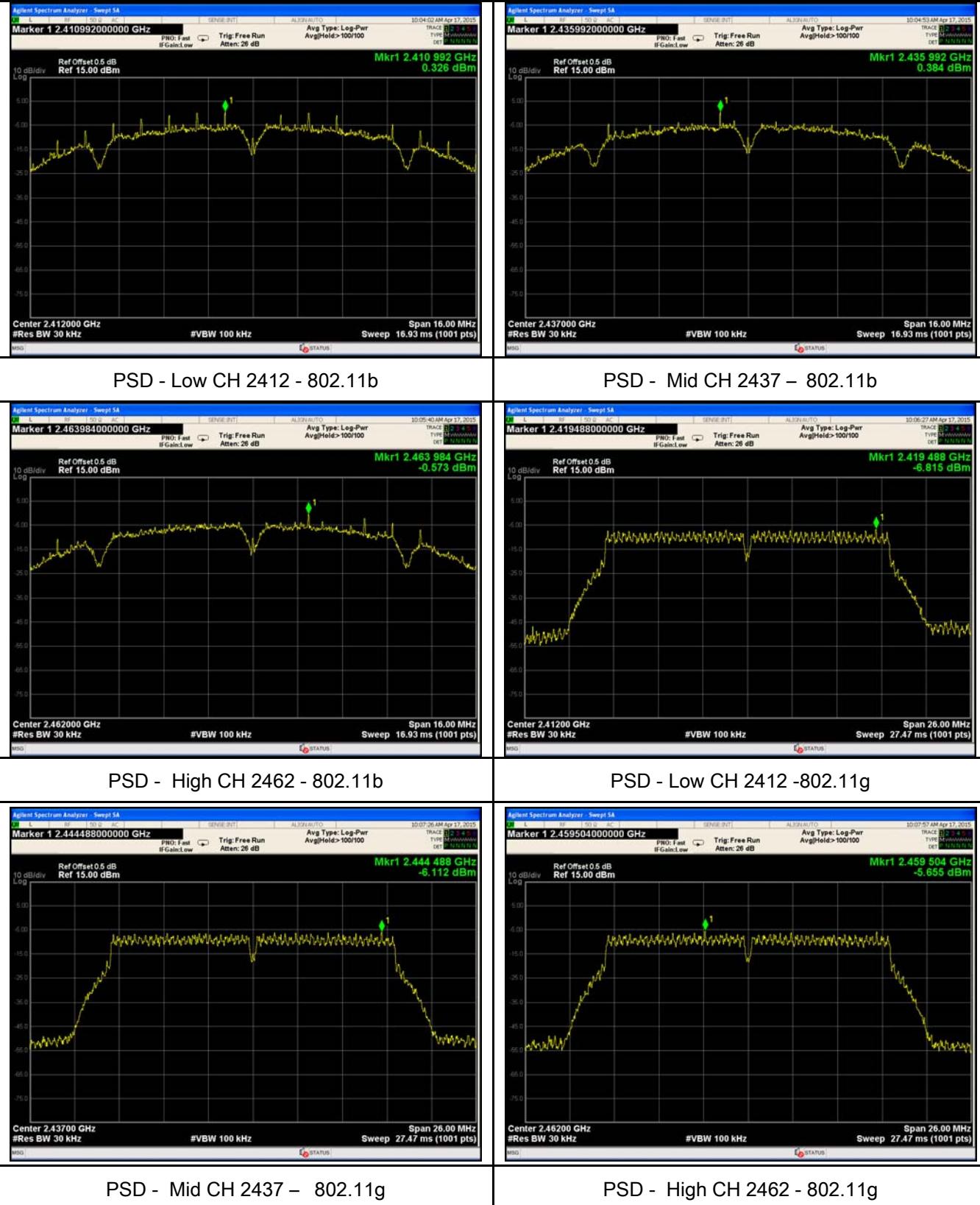
Test Data Yes N/A
 Test Plot Yes (See below) N/A

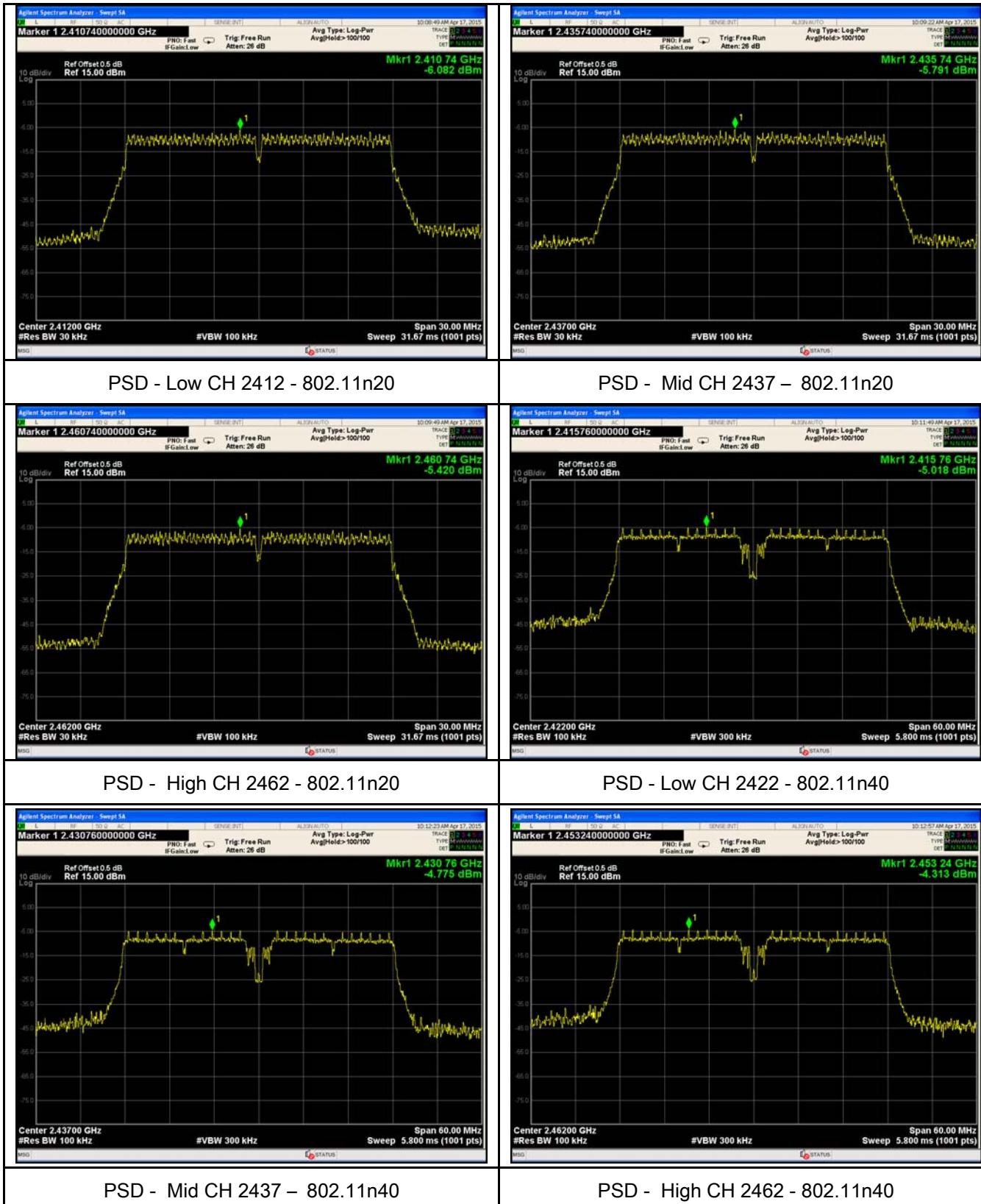
Power Spectral Density measurement result

Type	Test mode	CH	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
PSD	802.11b	Low	2412	0.326	8	Pass
		Mid	2437	0.384	8	Pass
		High	2462	-0.573	8	Pass
	802.11g	Low	2412	-6.815	8	Pass
		Mid	2437	-6.112	8	Pass
		High	2462	-5.655	8	Pass
	802.11n (20M)	Low	2412	-6.082	8	Pass
		Mid	2437	-5.791	8	Pass
		High	2462	-5.420	8	Pass
	802.11n (40M)	Low	2422	-5.018	8	Pass
		Mid	2437	-4.775	8	Pass
		High	2452	-4.313	8	Pass

Test Plots

Power Spectral Density measurement result

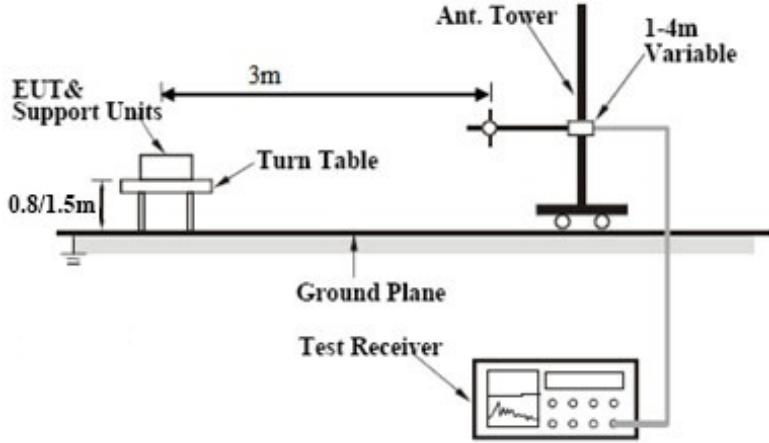




6.5 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

Temperature	25°C
Relative Humidity	51%
Atmospheric Pressure	1020mbar
Test date :	April 20, 2015
Tested By :	Wiky.Jam

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 Ant. Tower is positioned 3m away from the EUT & Support Units, which are placed on a Turn Table. The Turn Table is mounted on a Ground Plane. A Test Receiver is connected to the system, with a 1-4m Variable cable connecting the Test Receiver to the Ant. Tower. The height of the EUT & Support Units is specified as 0.8/1.5m.</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. 		

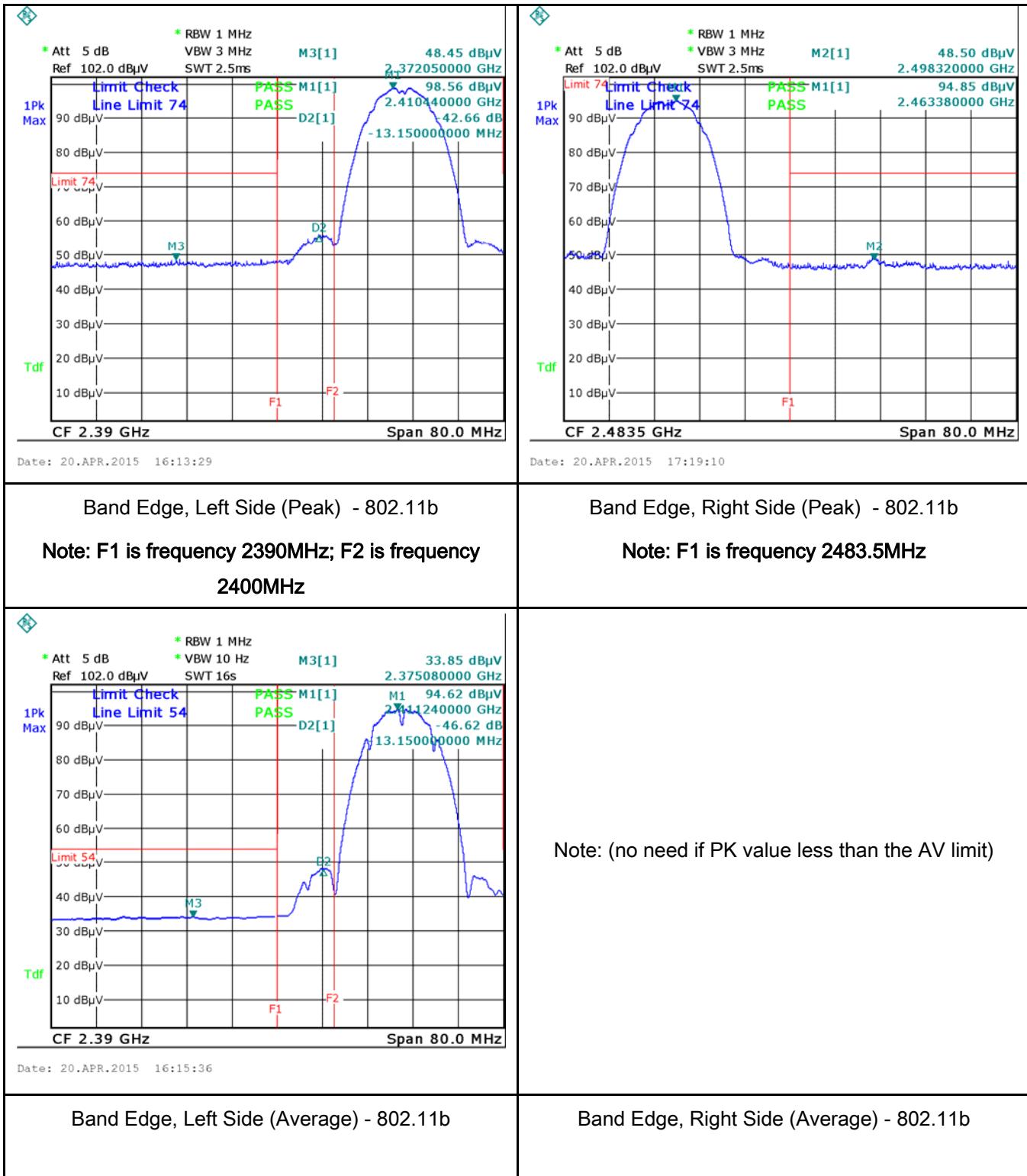
	<ul style="list-style-type: none"> - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below: <ul style="list-style-type: none"> a. The resolution 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

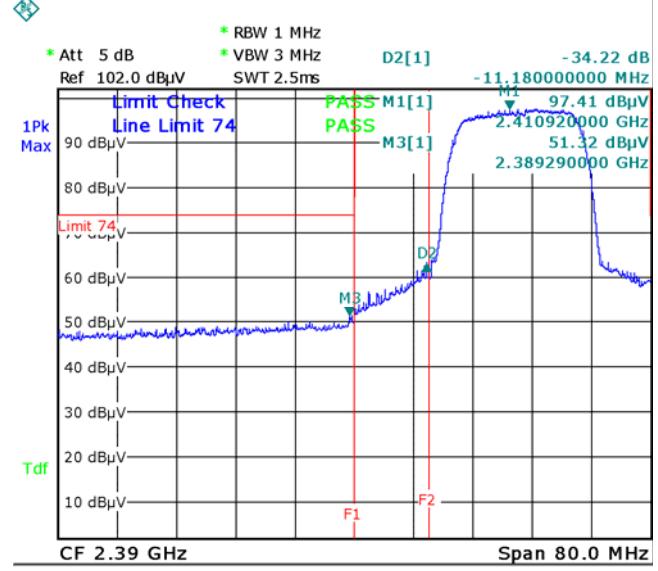
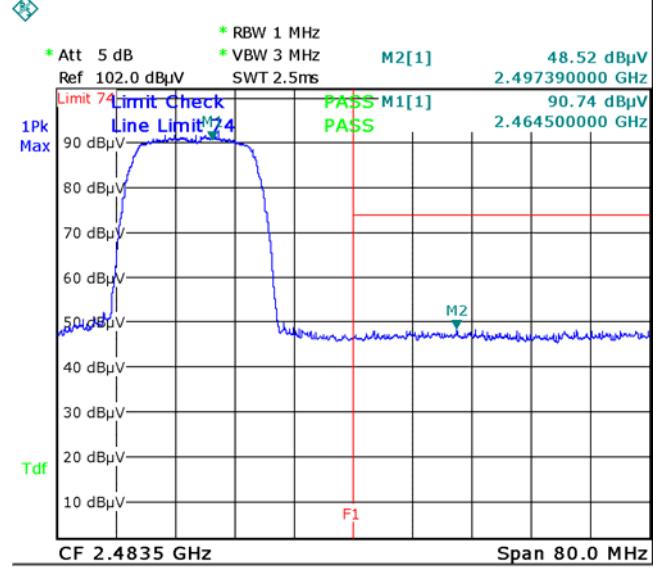
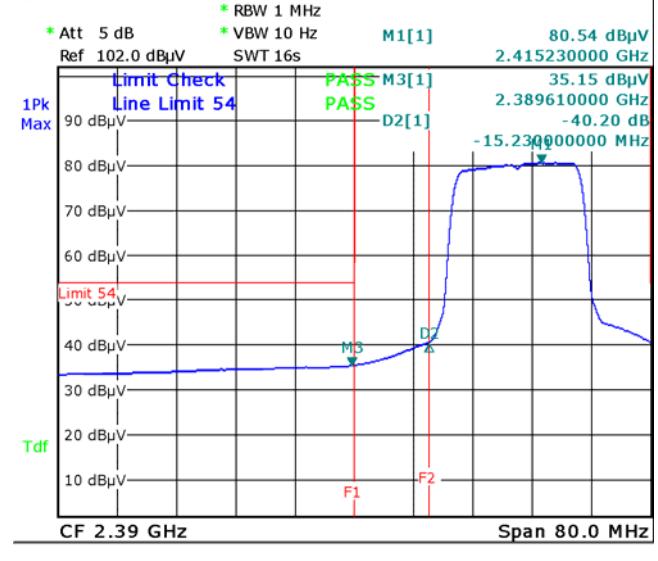
Test Data Yes N/A

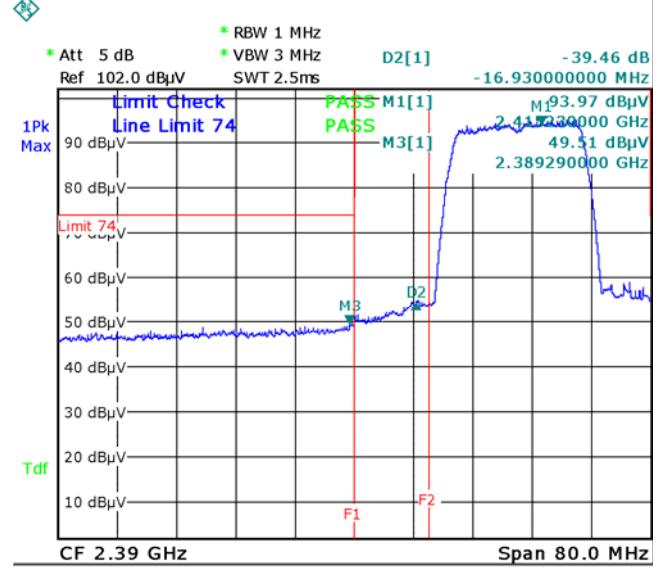
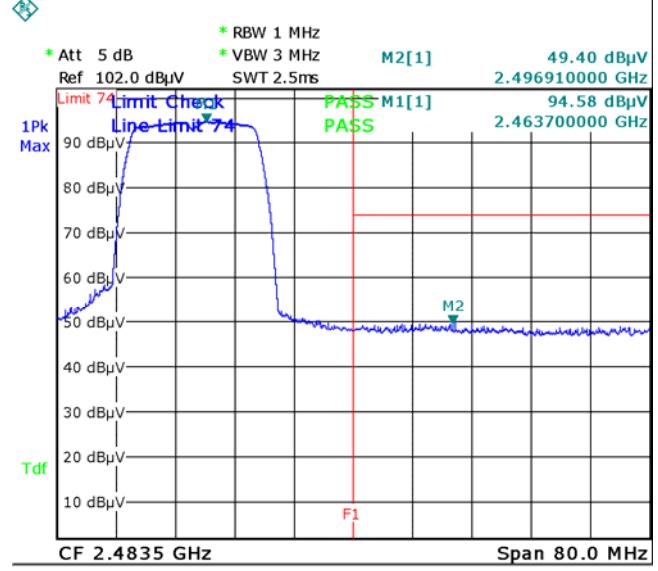
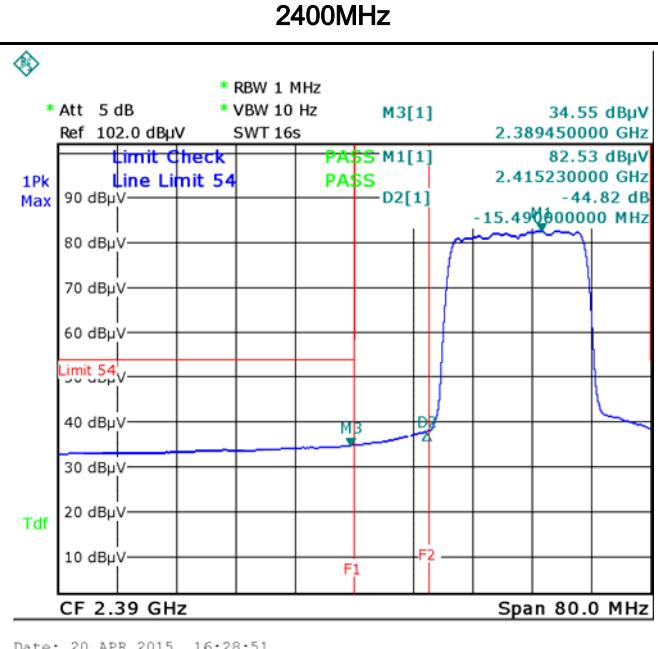
Test Plot Yes (See below) N/A

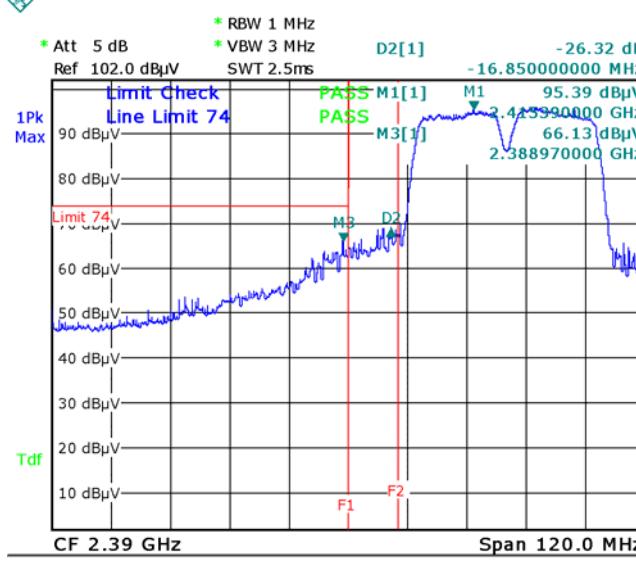
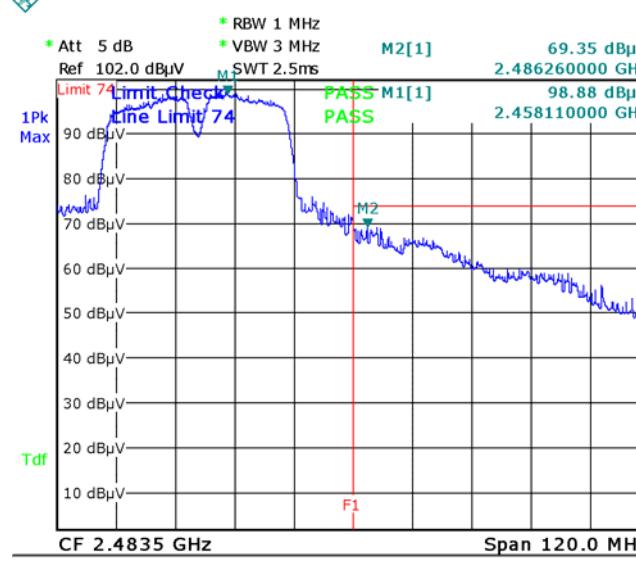
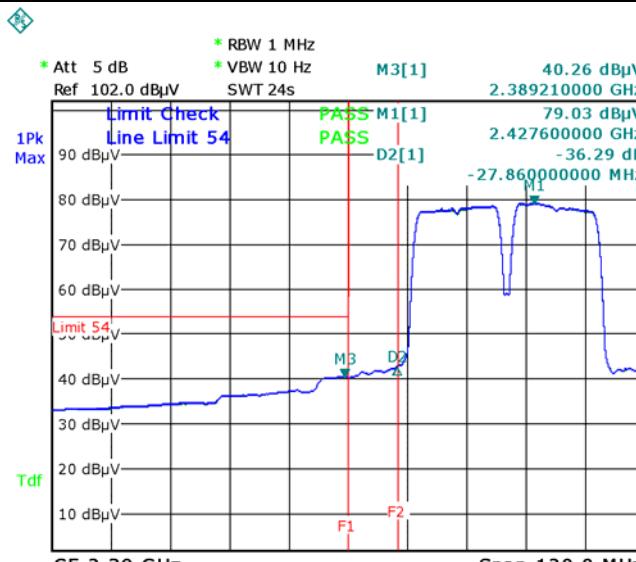
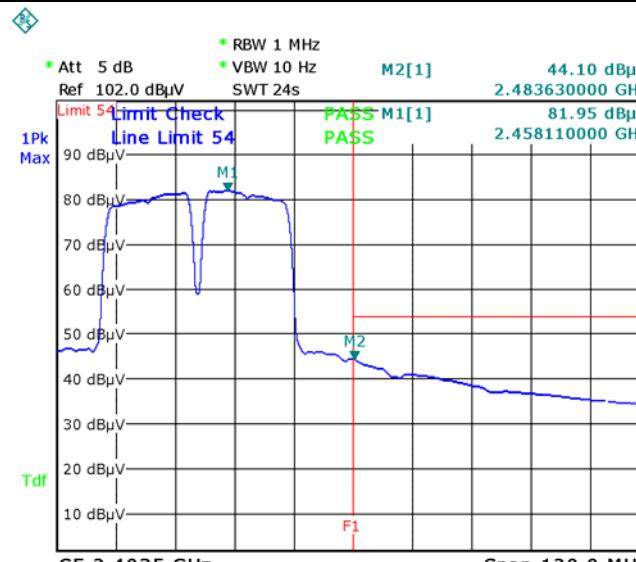
Test Plots

Band Edge measurement result



 <p>* RBW 1 MHz * Att 5 dB * VBW 3 MHz Ref 102.0 dBμV SWT 2.5ms</p> <p>1Pk Max Tdf</p> <p>CF 2.39 GHz Span 80.0 MHz</p> <p>D2[1] -34.22 dB -11.180000000 MHz M2 M1 M3 D2 D1 F1 F2</p> <p>M1[1] PASS M3[1] PASS</p>	 <p>* RBW 1 MHz * Att 5 dB * VBW 3 MHz Ref 102.0 dBμV SWT 2.5ms</p> <p>1Pk Max Tdf</p> <p>CF 2.4835 GHz Span 80.0 MHz</p> <p>M2[1] 48.52 dBμV 2.497390000 GHz 90.74 dBμV 2.464500000 GHz</p> <p>M1[1] PASS M2</p>
<p>Date: 20.APR.2015 16:21:05</p> <p>Band Edge, Left Side (Peak) - 802.11g</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Date: 20.APR.2015 17:29:25</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 * VBW 10 Hz Ref 102.0 dBμV SWT 16s</p> <p>1Pk Max Tdf</p> <p>CF 2.39 GHz Span 80.0 MHz</p> <p>M1[1] 80.54 dBμV 2.415230000 GHz 35.15 dBμV 2.389610000 GHz -40.20 dB -15.230000000 MHz</p> <p>M3[1] PASS D2[1] PASS</p>	<p>Note: (no need if PK value less than the AV limit)</p>
<p>Date: 20.APR.2015 16:19:29</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>Date: 20.APR.2015 16:25:51</p>	 <p>Date: 20.APR.2015 17:38:47</p>
<p>Band Edge, Left Side (Peak) - 802.11n20</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>  <p>Date: 20.APR.2015 16:28:51</p>	<p>Band Edge, Right Side (Peak) - 802.11n20</p> <p>Note: F1 is frequency 2483.5MHz</p> <p>Note: (no need if PK value less than the AV limit)</p>
<p>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 * VBW 3 MHz Ref 102.0 dBμV SWT 2.5ms</p> <p>1Pk Max Tdf</p> <p>CF 2.39 GHz Span 120.0 MHz</p> <p>D2[1] -26.32 dB M1[1] -16.850000000 MHz M1 95.39 dBμV 3.413990000 GHz M2 66.13 dBμV 2.388970000 GHz</p> <p>M3[1] PASS M3 PASS D2 PASS F1 Line Limit 74 F2</p>	 <p>* RBW 1 MHz * Att 5 dB * VBW 3 MHz Ref 102.0 dBμV SWT 2.5ms</p> <p>1Pk Max Tdf</p> <p>CF 2.4835 GHz Span 120.0 MHz</p> <p>M2[1] 69.35 dBμV 2.486260000 GHz M1[1] 98.88 dBμV 2.458110000 GHz</p> <p>M1 PASS M2 PASS D2 Line Limit 74 F1 Line Limit 74</p>
<p>Date: 20.APR.2015 16:42:32</p> <p>Band Edge, Left Side (Peak) - 802.11n40</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Date: 20.APR.2015 16:49:40</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 * VBW 10 Hz Ref 102.0 dBμV SWT 24s</p> <p>1Pk Max Tdf</p> <p>CF 2.39 GHz Span 120.0 MHz</p> <p>M3[1] 40.26 dBμV 2.389210000 GHz D2[1] 79.03 dBμV 2.427600000 GHz M1 -36.29 dB -27.860000000 MHz</p> <p>M1[1] PASS M2 PASS D2 PASS F1 Line Limit 54 F2</p>	 <p>* RBW 1 MHz * Att 5 dB * VBW 10 Hz Ref 102.0 dBμV SWT 24s</p> <p>1Pk Max Tdf</p> <p>CF 2.4835 GHz Span 120.0 MHz</p> <p>M2[1] 44.10 dBμV 2.483630000 GHz M1[1] 81.95 dBμV 2.458110000 GHz</p> <p>M1 PASS M2 PASS D2 Line Limit 54 F1</p>
<p>Date: 20.APR.2015 16:39:10</p> <p>Band Edge, Left Side (Average) - 802.11n40</p> <p>Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz</p>	<p>Date: 20.APR.2015 16:54:40</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	22°C
Relative Humidity	57%
Atmospheric Pressure	1017mbar
Test date :	April 17, 2015
Tested By :	Wiky.Jam

Requirement(s):

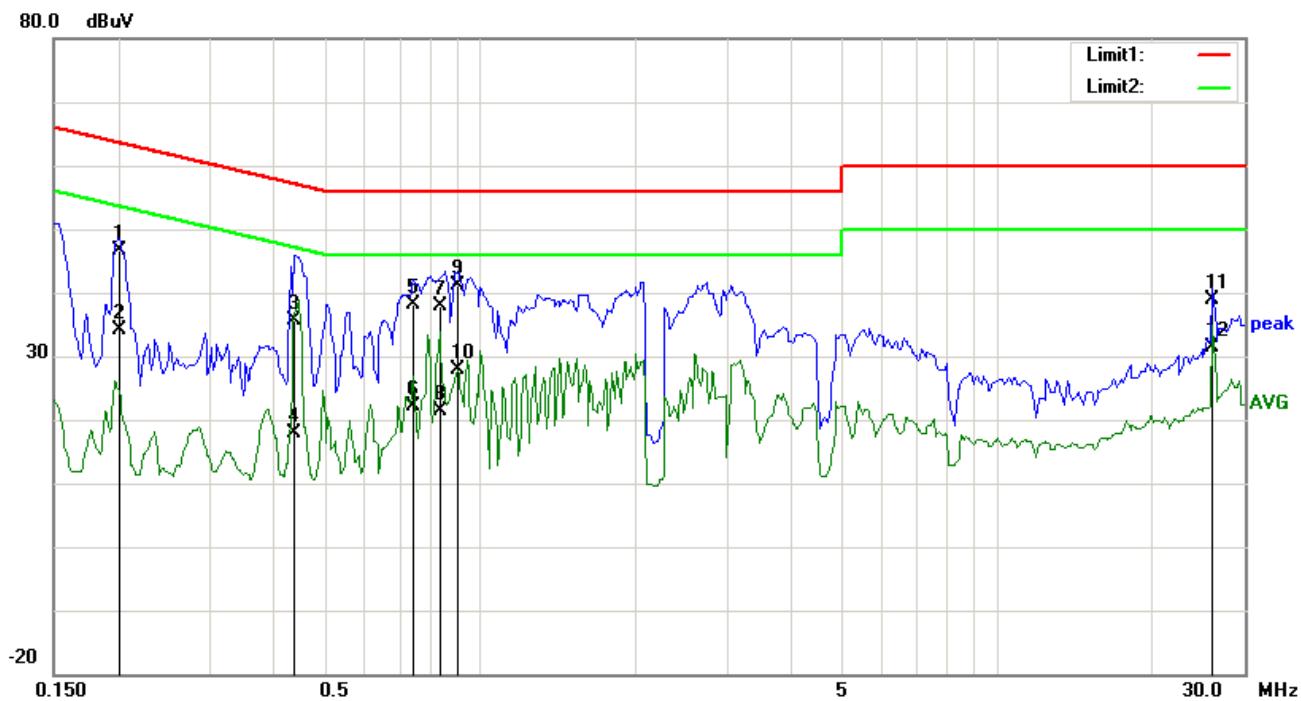
Spec	Item	Requirement	Applicable															
47CFR§15.207,	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 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>Frequency ranges (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th></th> <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"> 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. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. 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

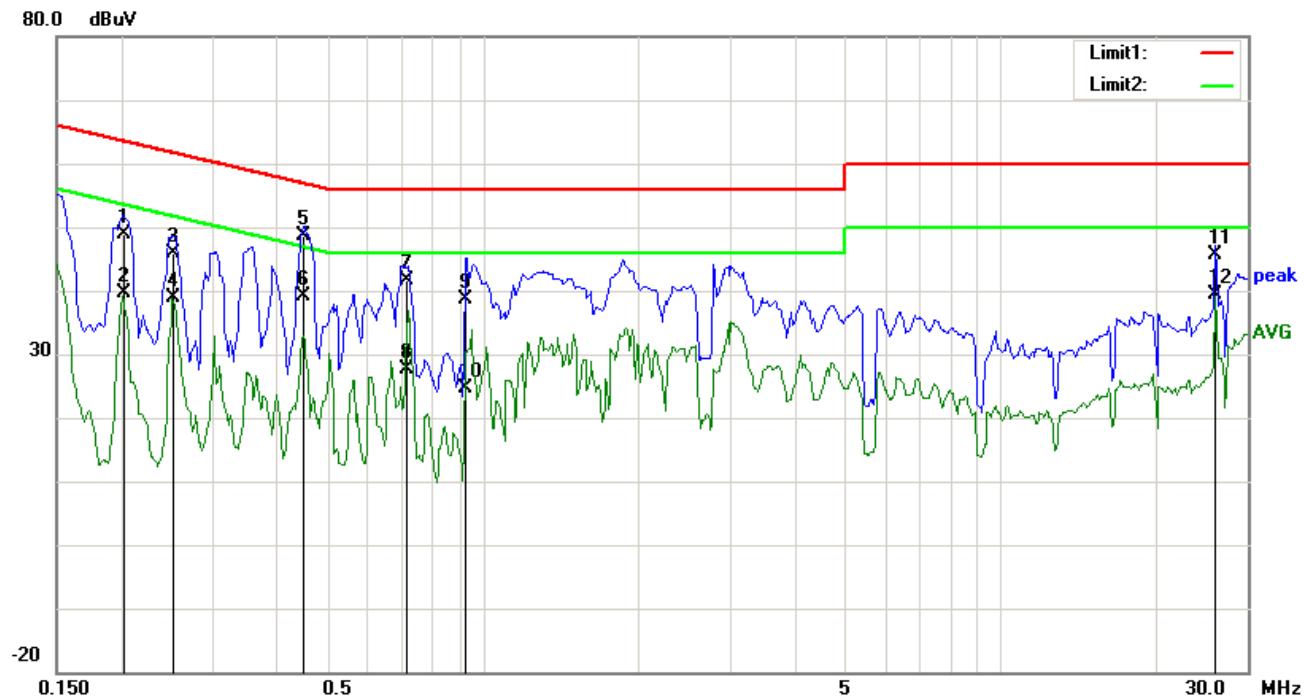
Test Mode:	Transmitting Mode
------------	-------------------



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)	Comment
1	L1	0.2008	33.66	QP	13.01	46.67	63.58	-16.91	
2	L1	0.2008	21.22	AVG	13.01	34.23	53.58	-19.35	
3	L1	0.4391	23.55	QP	12.13	35.68	57.08	-21.40	
4	L1	0.4391	5.72	AVG	12.13	17.85	47.08	-29.23	
5	L1	0.7438	26.54	QP	11.66	38.20	56.00	-17.80	
6	L1	0.7438	10.51	AVG	11.66	22.17	46.00	-23.83	
7	L1	0.8393	26.28	QP	11.56	37.84	56.00	-18.16	
8	L1	0.8393	9.83	AVG	11.56	21.39	46.00	-24.61	
9	L1	0.9078	29.60	QP	11.49	41.09	56.00	-14.91	
10	L1	0.9078	16.36	AVG	11.49	27.85	46.00	-18.15	
11	L1	26.0012	24.55	QP	14.32	38.87	60.00	-21.13	
12	L1	26.0012	17.12	AVG	14.32	31.44	50.00	-18.56	

Test Mode:
Transmitting Mode


Test Data

Phase Neutral Plot at 120Vac, 60Hz

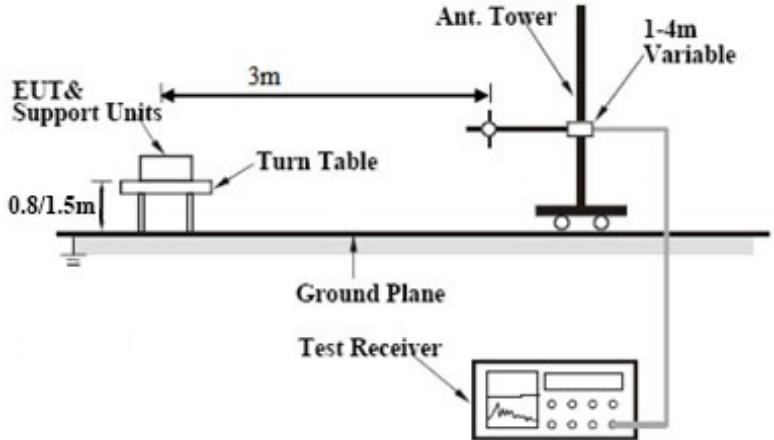
No.	P/L	Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Comment)
1	N	0.2029	35.93	QP	13.00	48.93	63.49	-14.56	
2	N	0.2029	26.65	AVG	13.00	39.65	53.49	-13.84	
3	N	0.2521	33.02	QP	12.82	45.84	61.69	-15.85	
4	N	0.2521	26.08	AVG	12.82	38.90	51.69	-12.79	
5	N	0.4508	36.53	QP	12.08	48.61	56.86	-8.25	
6	N	0.4508	27.10	AVG	12.08	39.18	46.86	-7.68	
7	N	0.7125	29.84	QP	11.69	41.53	56.00	-14.47	
8	N	0.7125	15.94	AVG	11.69	27.63	46.00	-18.37	
9	N	0.9273	27.28	QP	11.47	38.75	56.00	-17.25	
10	N	0.9273	13.07	AVG	11.47	24.54	46.00	-21.46	
11	N	26.0012	28.22	QP	17.38	45.60	60.00	-14.40	
12	N	26.0012	21.93	AVG	17.38	39.31	50.00	-10.69	

6.7 Radiated Spurious Emissions

Temperature	20°C
Relative Humidity	53%
Atmospheric Pressure	1002mbar
Test date :	April 22, 2015
Tested By :	Wiky.Jam

Requirement(s):

Spec	Item	Requirement	Applicable							
47CFR§15. 247(d),	a)	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	<input checked="" type="checkbox"/>							
		<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
Frequency range (MHz)	Field Strength (μ V/m)									
30 – 88	100									
88 – 216	150									
216 – 960	200									
Above 960	500									
b)	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 <input checked="" type="checkbox"/> 20 dB down <input type="checkbox"/> 30 dB down	<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"/>							

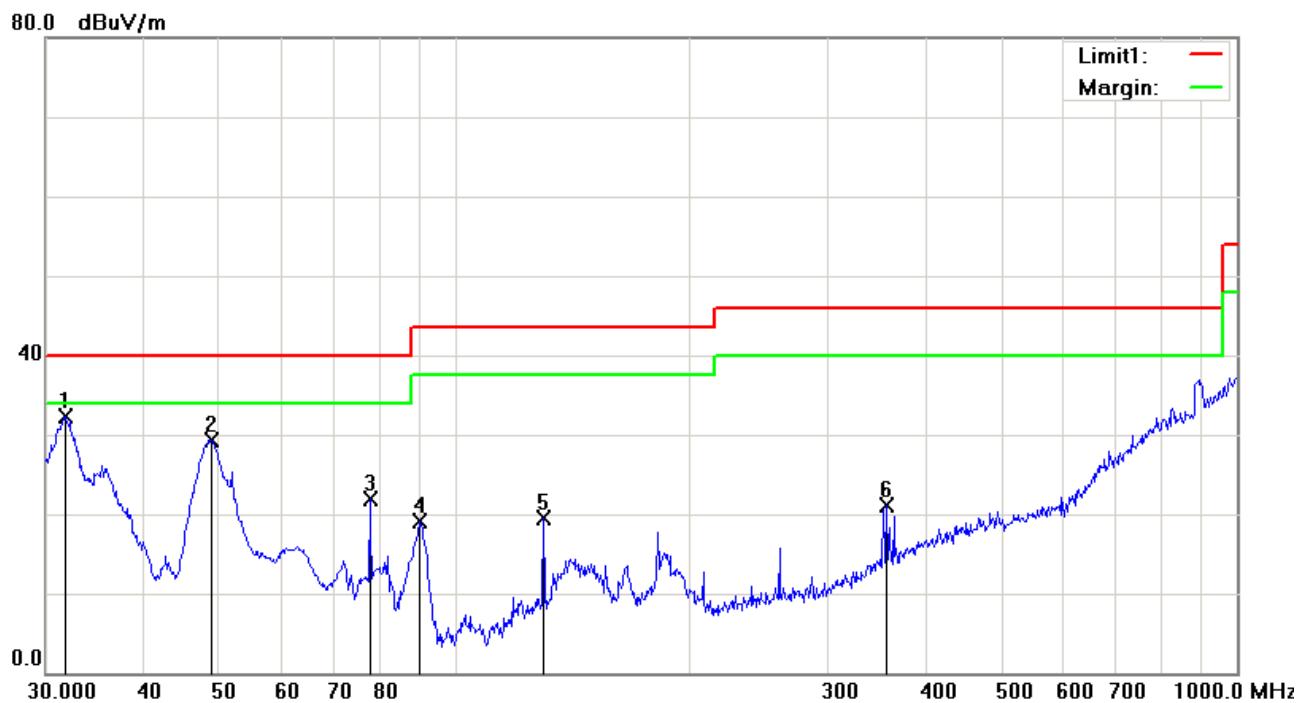
Test Setup	 <p>The diagram illustrates the test setup. An EUT & Support Units assembly is mounted on a Turn Table, which is positioned on a Ground Plane. The Turn Table is 0.8/1.5m from the ground plane. A vertical Ant. Tower is connected to the turn table via a horizontal crossbar. The tower has a height adjustment labeled '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)

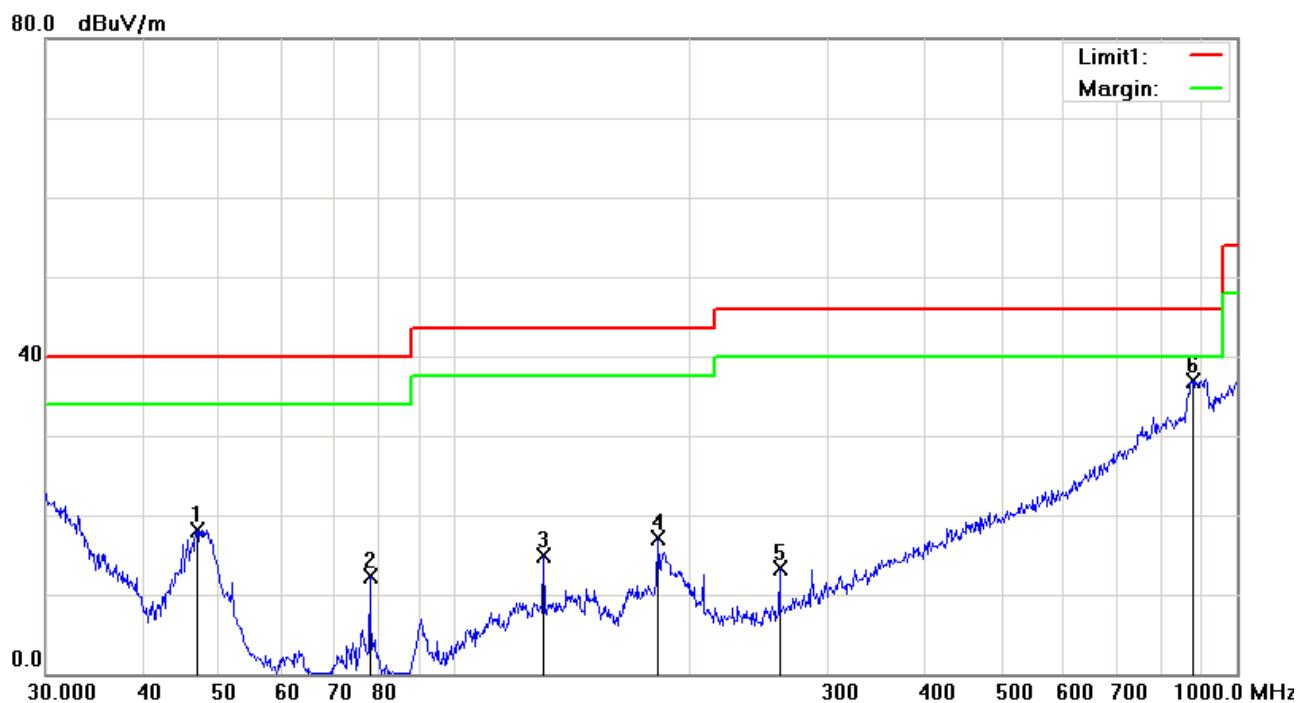


Test Data

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	Comment
1	V	31.7313	34.80	peak	-2.47	32.33	40.00	-7.67	100	257	
2	V	48.8429	42.84	peak	-13.49	29.35	40.00	-10.65	100	261	
3	V	77.8654	35.66	peak	-13.76	21.90	40.00	-18.10	100	316	
4	V	90.2205	32.95	peak	-13.83	19.12	43.50	-24.38	100	69	
5	V	129.9226	26.99	peak	-7.53	19.46	43.50	-24.04	100	125	
6	V	356.6758	25.98	peak	-4.93	21.05	46.00	-24.95	100	147	

(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	Comment
1	H	46.8303	23.11	peak	-5.04	18.07	40.00	-21.93	100	209	
2	H	77.8654	25.98	peak	-13.76	12.22	40.00	-27.78	100	198	
3	H	129.9226	22.85	peak	-7.92	14.93	43.50	-28.57	100	105	
4	H	181.9202	26.94	peak	-9.76	17.18	43.50	-26.32	100	260	
5	H	260.1444	21.93	peak	-8.72	13.21	46.00	-32.79	100	157	
6	H	878.3214	32.54	peak	4.30	36.84	46.00	-9.16	100	238	

Test Mode:
Transmitting Mode
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	39.62	AV	V	34	6.86	31.72	48.76	54	-5.24
4824	37.84	AV	H	33.8	6.86	31.72	46.78	54	-7.22
4824	48.39	PK	V	34	6.86	31.72	57.53	74	-16.47
4824	47.77	PK	H	33.8	6.86	31.72	56.71	74	-17.29

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	39.69	AV	V	33.6	6.82	31.82	48.29	54	-5.71
4874	40.12	AV	H	33.8	6.82	31.82	48.92	54	-5.08
4874	47.93	PK	V	33.6	6.82	31.82	56.53	74	-17.47
4874	49.11	PK	H	33.8	6.82	31.82	57.91	74	-16.09

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	35.94	AV	V	34.6	6.76	31.92	45.38	54	-8.62
4924	36.16	AV	H	34.7	6.76	31.92	45.7	54	-8.3
4924	48.67	PK	V	34.6	6.76	31.92	58.11	74	-15.89
4924	46.76	PK	H	34.7	6.76	31.92	56.3	74	-17.7

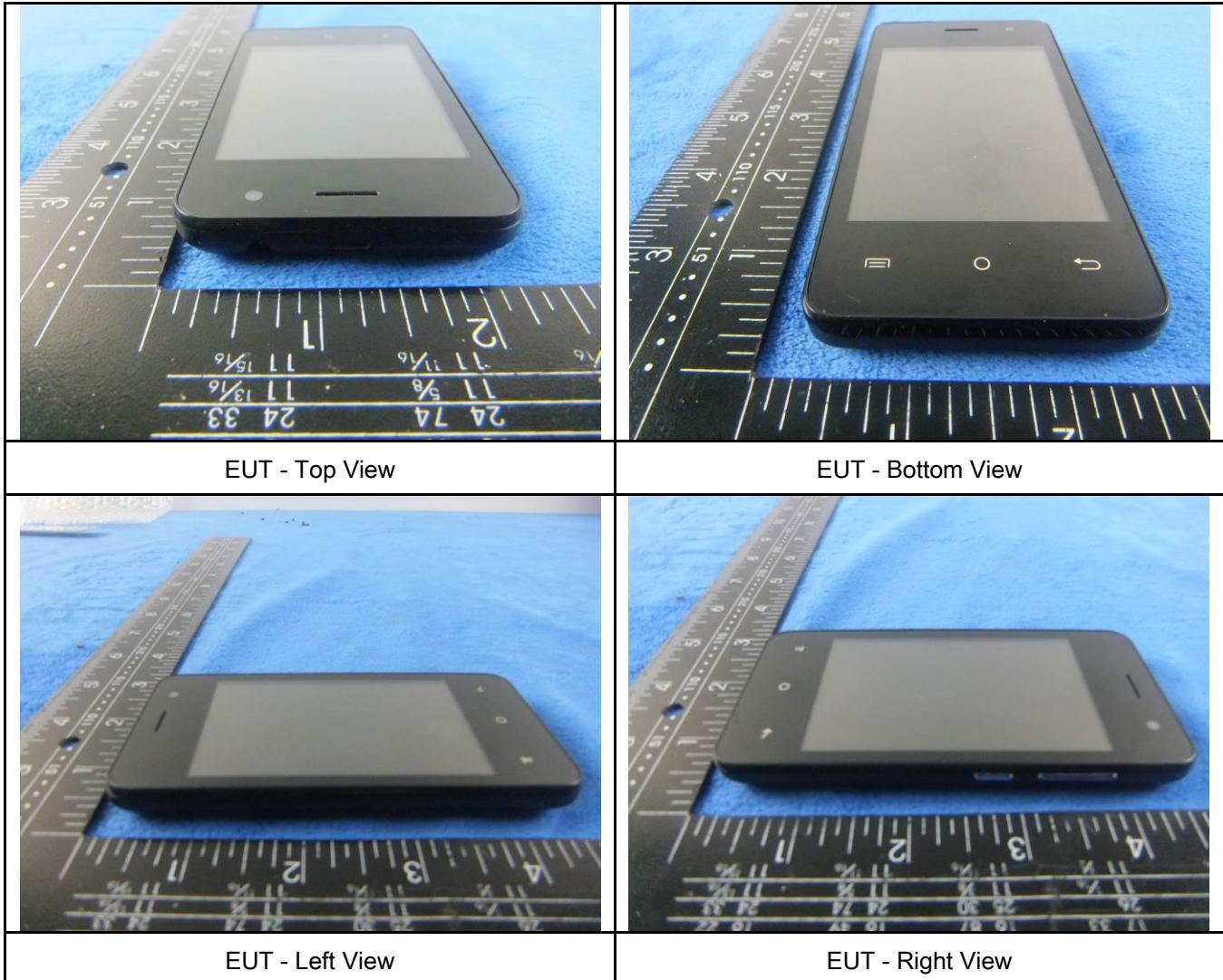
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	09/02/2014	09/01/2015	<input checked="" type="checkbox"/>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	09/02/2014	09/01/2015	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	<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	09/02/2014	09/01/2015	<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	09/22/2014	09/21/2015	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>

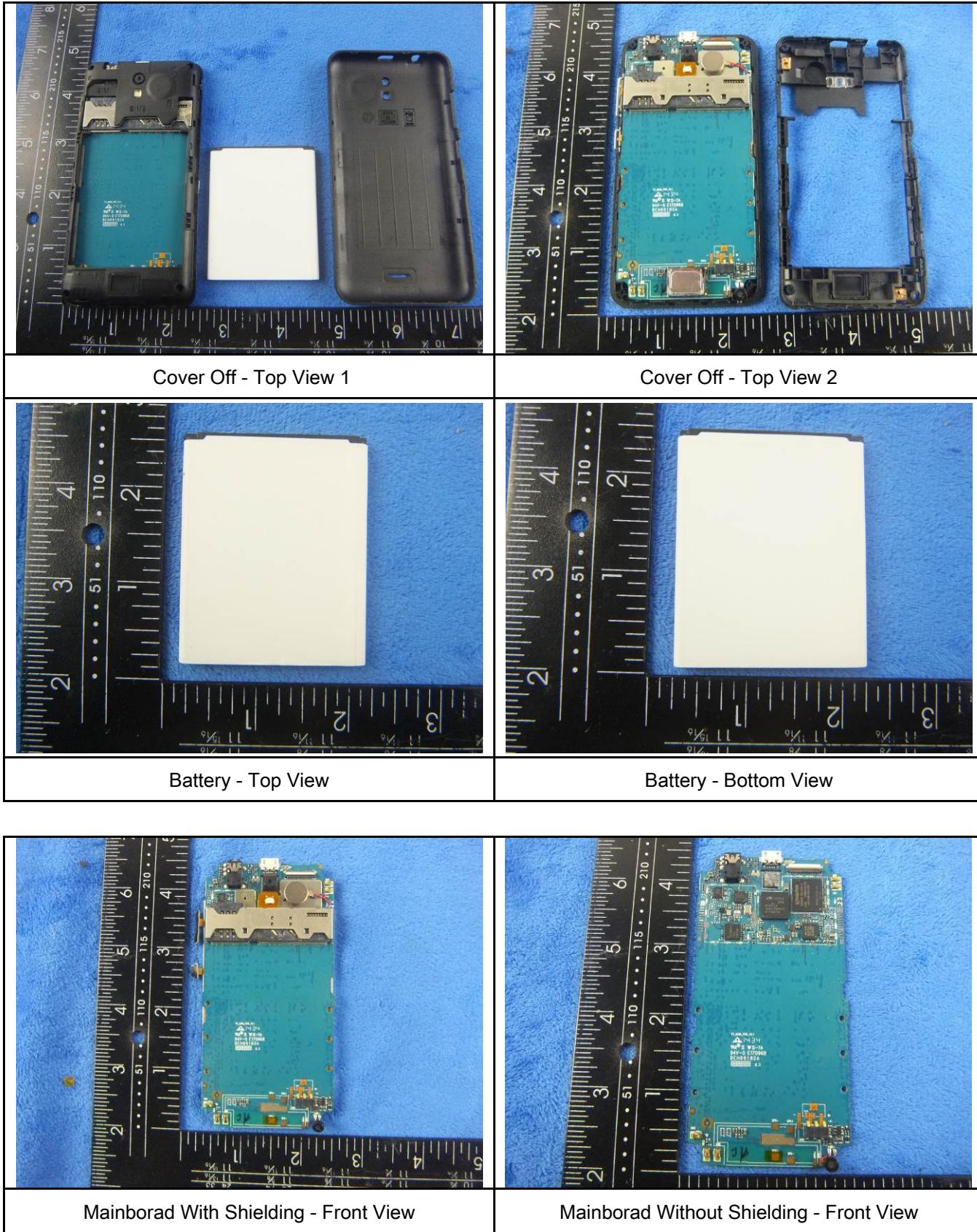
Annex B. EUT and Test Setup Photographs

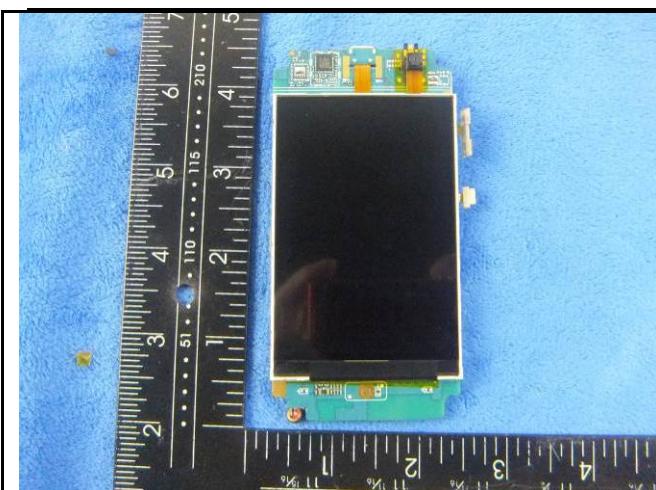
Annex B.i. Photograph: EUT External Photo



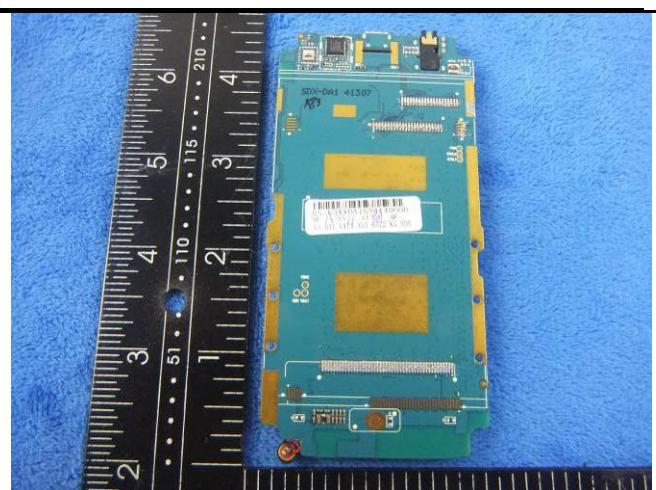


Annex B.ii. Photograph: EUT Internal Photo

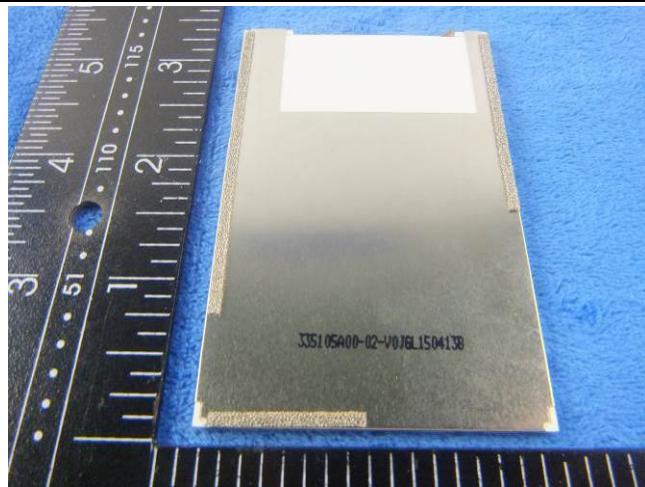




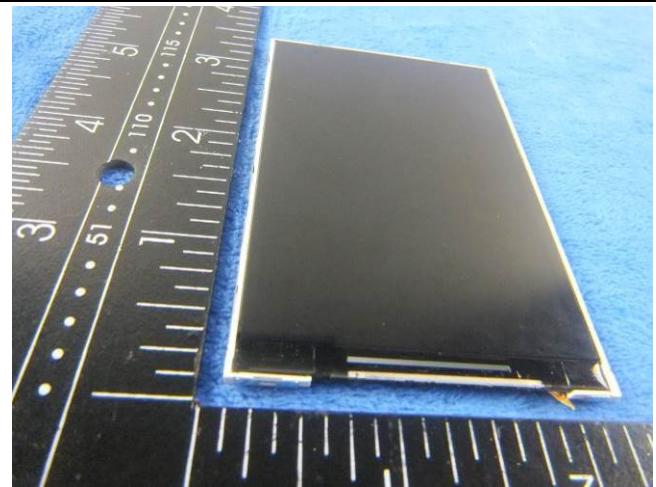
Mainborad With Shielding - rear View



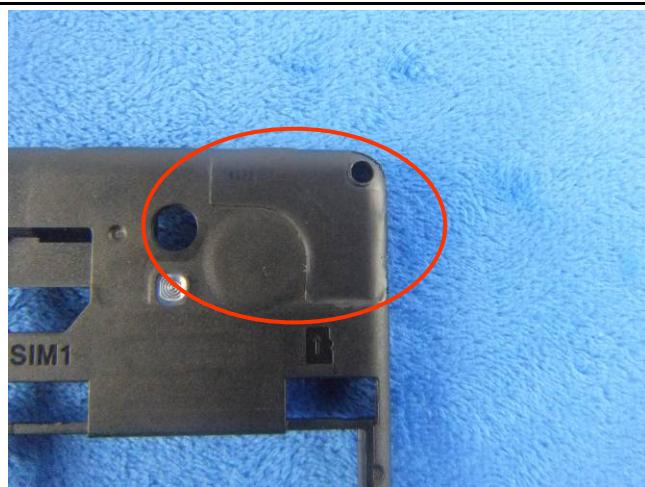
Mainborad Without Shielding - rear View



LCD - Rear View



LCD - Front View

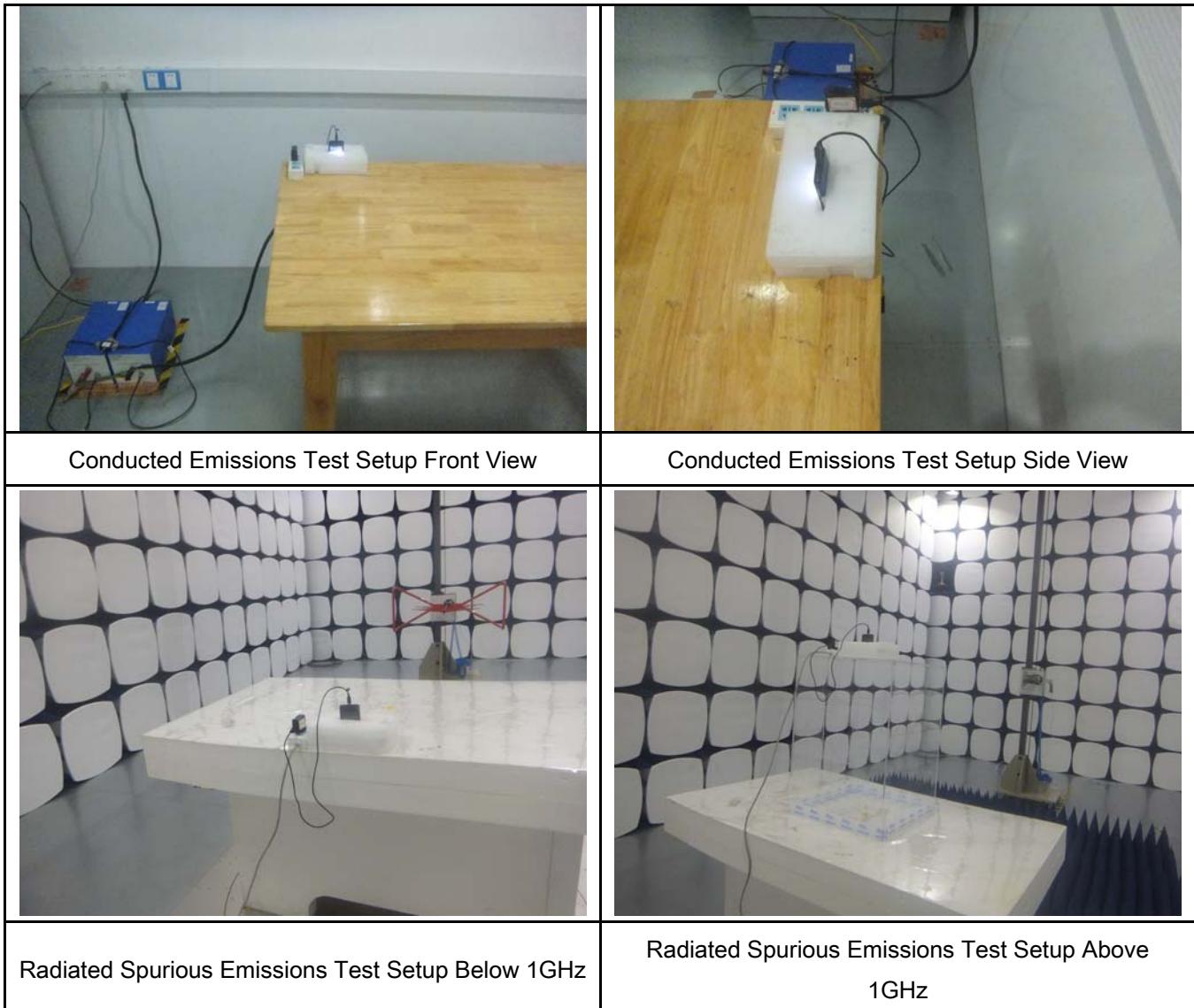


WIFI/BT/BLE - Antenna View



GSM/PCS/UMTS-FDD Antenna View

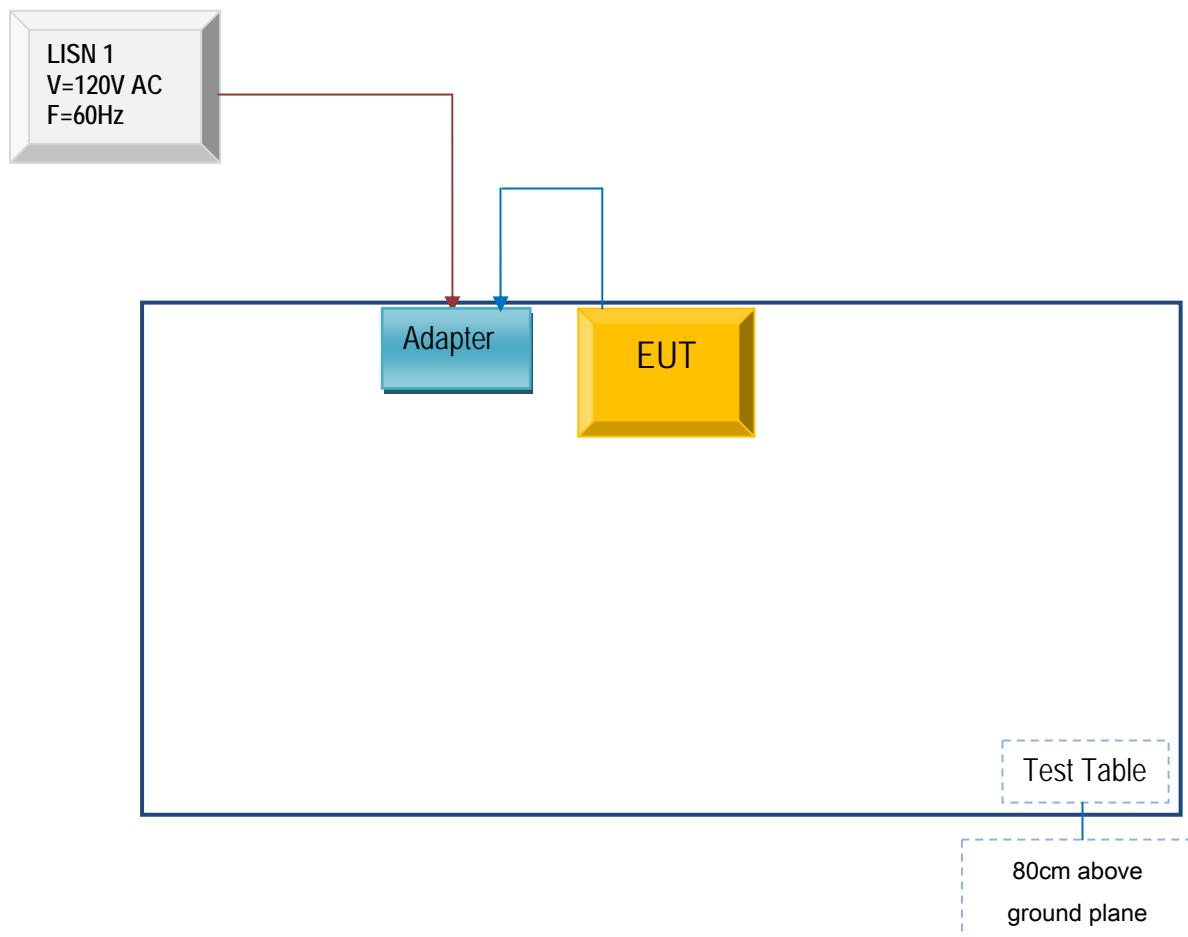
Annex B.iii. Photograph: Test Setup Photo



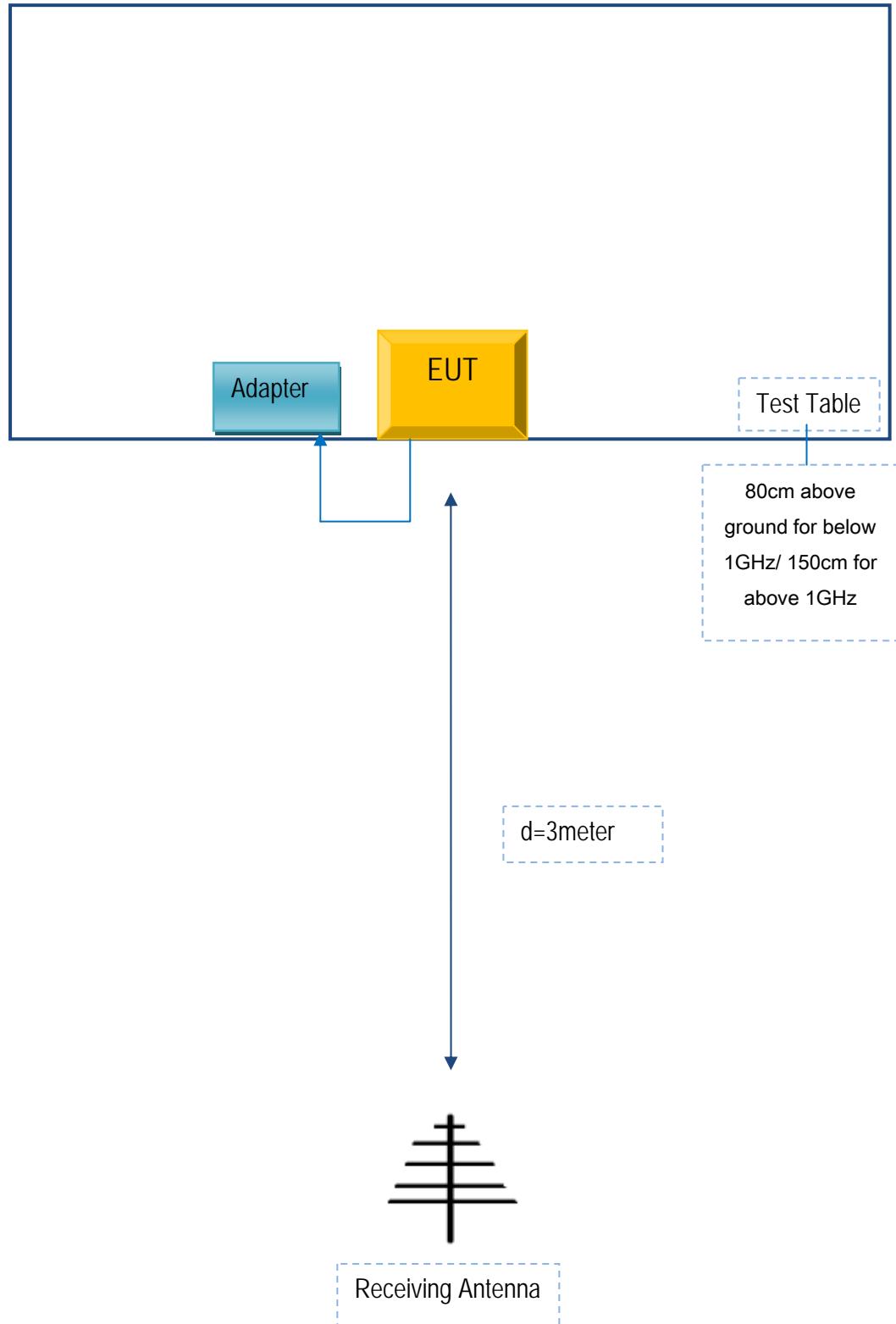
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for AC Line Conducted Emissions



Block Configuration Diagram for Radiated Emissions



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	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A

Test Report No.	15070273-FCC-R3
Page	48 of 49

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

Please see attachment

Annex E. DECLARATION OF SIMILARITY

Social Mobile Telecommunications

To: SIEMIC ,775 Montague Expressway, Milpitas, CA 95035,USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 2 model numbers on the FCC certificates and reports, as following:

Model No.: X301, Vapor

We declare that, all the model PCB ,Antenna and Appearance shape , accessories are the same . The difference of these is listed as below:

Main Model No	Serial Model No	Difference
X301	Vapor	Different model name

Thank you!

Signature:

Printed name/title: Freddy Morcos / Manager
Address: 16400 NW 2nd Ave. #201 Miami, Florida 33169