# **FCC RF Test Report**

APPLICANT : CT Asia (HK) Ltd.

**EQUIPMENT**: Smart phone

BRAND NAME : BLU

MODEL NAME : STUDIO SELFIE

FCC ID : YHLBLUSTSELFIE

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jul. 23, 2015 and testing was completed on Aug. 20, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

## SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

Testing Laboratory

Report No.: FR572303C

Report Version : Rev. 01

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR572303C	Rev. 01	Initial issue of report	Aug. 25, 2015

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	RSS-247 5.2(1)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	RSS-Gen 6.6	99% Bandwidth	-	Pass	-
3.2	15.247(b)	RSS-247 A5.4(4)	Power Output Measurement ≤ 30dBm Pass		-	
3.3	15.247(e)	RSS-247 5.2(2)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15 247/d)	RSS-247	Conducted Band Edges	< 20dDa	Pass	-
3.4	15.247(d)	5.5	Conducted Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	RSS-247 5.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.32 dB at 4824.000 MHz
3.6	15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 17.44 dB at 1.340 MHz
3.7	15.203 & 15.247(b)	N/A	Antenna Requirement	N/A	Pass	-

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## 1 General Description

## 1.1 Applicant

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

### 1.2 Manufacturer

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

## 1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smart phone
Brand Name	BLU
Model Name	STUDIO SELFIE
FCC ID	YHLBLUSTSELFIE
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only) WLAN2.4GHz 802.11b/g/n HT20/HT40/
201 Supports Rudios application	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
HW Version	LWLM003B1
SW Version	BLU_S070A_V02
EUT Stage	Pre-Production

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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## 1.4 Product Specification subjective to this standard

Product Specific	cation subjective to this standard
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
	802.11b : 18.29 dBm (0.0675 W)
Maximum (Peak) Output Power to	802.11g : 21.98 dBm (0.1578 W)
Antenna	802.11n HT20 : 21.46 dBm (0.1400 W)
	802.11n HT40 : 21.13 dBm (0.1297 W)
	802.11b : 12.55MHz
90% Occupied Bandwidth	802.11g : 17.45MHz
99% Occupied Bandwidth	802.11n HT20 : 18.20MHz
	802.11n HT40 : 36.50MHz
Antenna Type / Gain	IFA Antenna with gain -3.50 dBi
Type of Modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)

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## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (SHEN	ZHEN) INC.			
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,				
Test Site Location	Nanshan District, Shenzhen, Guangdong, P. R. China				
rest Site Location	TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595				
Took Oiko No	Sporton Site No.				
Test Site No.					

Test Site	SPORTON INTERNATIONAL (SHEN	ZHEN) INC.			
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755- 3320-2398				
Toot Site No	Sporton Site No.	FCC/IC Registration No.			
	03CH01-SZ	831040/4086F			

Note: The test site complies with ANSI C63.4 2009 requirement.

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## 1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03
- ANSI C63.10-2013
- IC RSS-247 Issue 1
- IC RSS-Gen Issue 4

#### Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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## 2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

## 2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1	2412	7	2442
	2	2417	8	2447
2400 2402 F MI I-	3	2422	9	2452
2400-2483.5 MHz	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

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## 2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test shown in the following tables.

	2.4GHz 802.11b RF Output Power (dBm)									
Pov	ver vs. Char	nnel	Power vs. Data Rate							
Channel	Frequency (MHz) Data		Channel	2Mbps	5.5Mbps	11Mbps				
	(IVIHZ)	1Mbps								
CH 01	2412 MHz	<mark>18.29</mark>								
CH 06	2437 MHz	17.79	CH 01	18.11	18.04	18.06				
CH 11	2462 MHz	17.67								

	2.4GHz 802.11g RF Output Power (dBm)											
Pov	Power vs. Channel			Power vs. Data Rate								
Channel	Frequency (MHz)	Data Rate	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	(IVITZ)	6Mbps		,								
CH 01	2412 MHz	<mark>21.98</mark>										
CH 06	2437 MHz	21.89	CH 01	21.95	21.93	21.92	21.94	21.90	21.96	21.97		
CH 11	2462 MHz	21.93										

	2.4GHz 802.11n HT20 RF Output Power (dBm)											
Pov	Power vs. Channel				F	Power vs.	MCS Index	(				
Channel	Frequency (MHz)	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	(IVITIZ)	MCS0										
CH 01	2412 MHz	<mark>21.46</mark>										
CH 06	2437 MHz	21.30	CH 01	21.26	21.22	21.19	21.25	21.31	21.41	21.44		
CH 11	2462 MHz	21.36										

	2.4GHz 802.11n HT40 RF Output Power (dBm)										
Pov	ver vs. Chan	nel		Power vs. MCS Index							
Channel	Frequency	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
	(MHz)	MCS0									
CH 03	2422 MHz	<mark>21.13</mark>									
CH 06	2437 MHz	20.90	CH 03	20.83	20.82	20.73	20.77	21.09	21.10	21.12	
CH 09	2452 MHz	20.15									

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## 2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases				
AC Conducted Emission	Mode 1 : GSM850 Link + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging from Adapter)			
Remark: For radiated test cases, the tests were performed with adapter, earphone and USB cable.				

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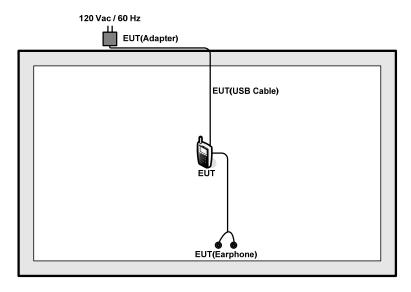
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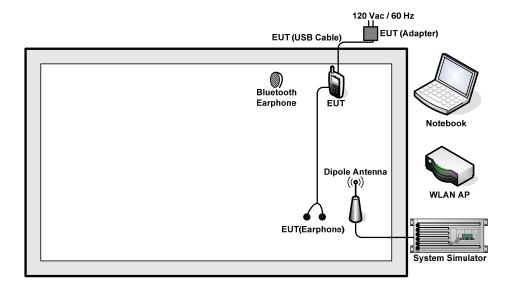
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## 2.4 Connection Diagram of Test System

#### <WLAN Tx Mode>



#### <AC Conducted Emission Mode>



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## 2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A

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## 2.6 EUT Operation Test Setup

For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

## 2.7 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

#### Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.0 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 5.0 + 10 = 15.0 (dB)

### 3 Test Result

#### 3.1 6dB and 99%Bandwidth Measurement

#### 3.1.1 Limit of 6dB and 99%Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

#### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r03.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
- 6. Measure and record the results in the test report.

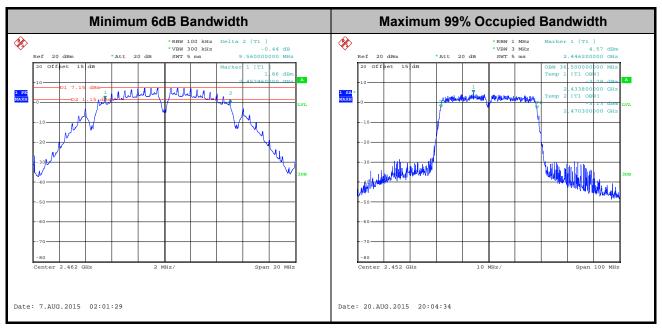
#### 3.1.4 Test Setup



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## 3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A of this test report.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting Antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the Antenna exceeds 6dBi.

### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r03.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Peak Output Power

Please refer to Appendix A of this test report.

#### 3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A of this test report.

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## 3.3 Power Spectral Density Measurement

### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.

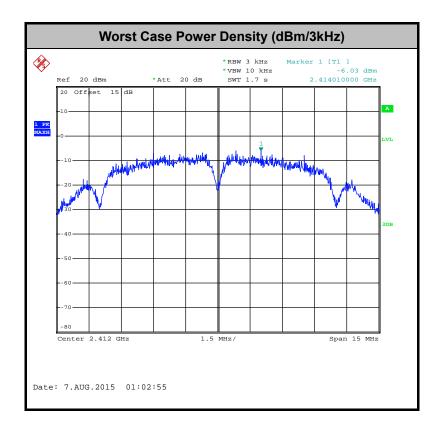
#### 3.3.4 Test Setup



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## 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A of this test report.



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## 3.4 Conducted Band Edges and Spurious Emission Measurement

## 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.4.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

#### 3.4.4 Test Setup

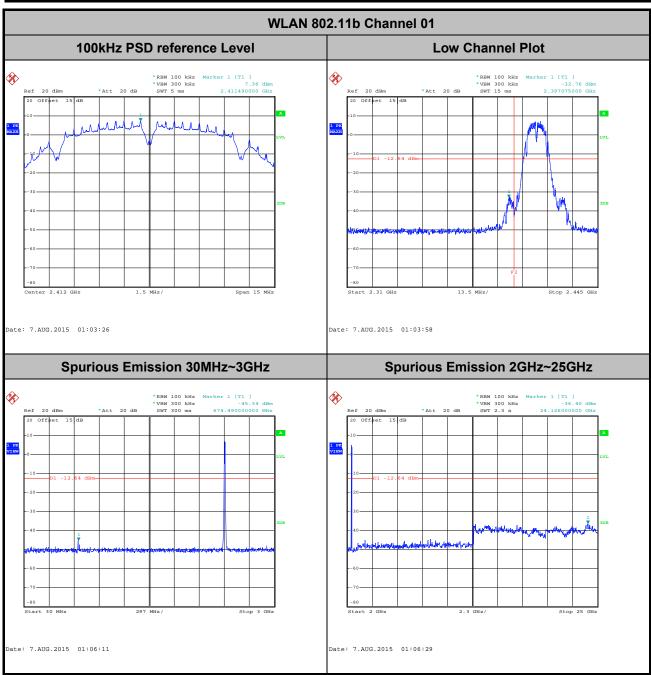


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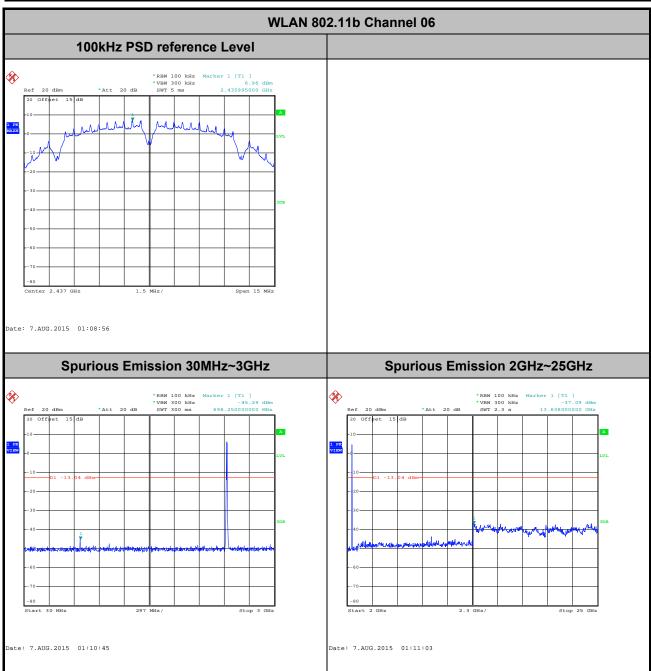
## 3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	<b>24~26</b> ℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Mygai Mo



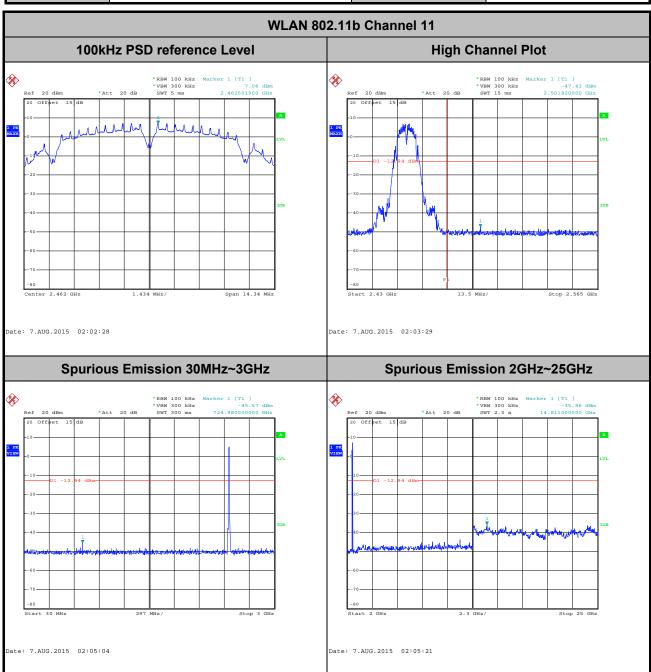
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



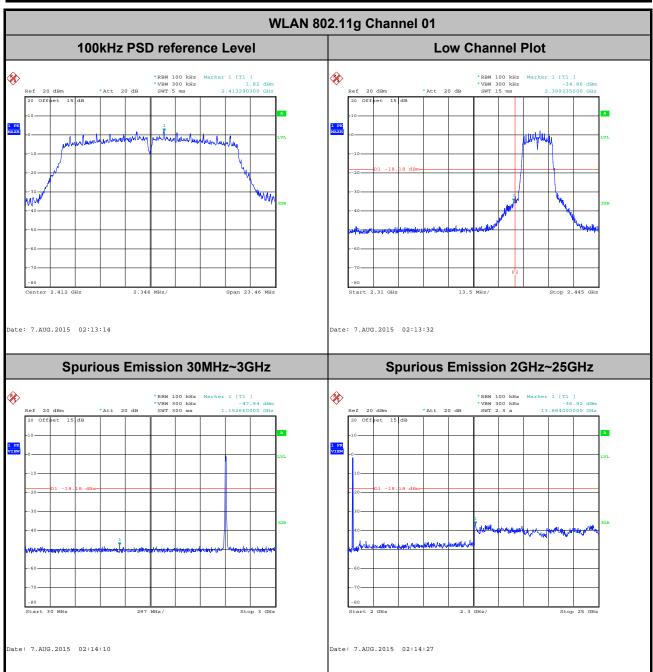
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Mygai Mo



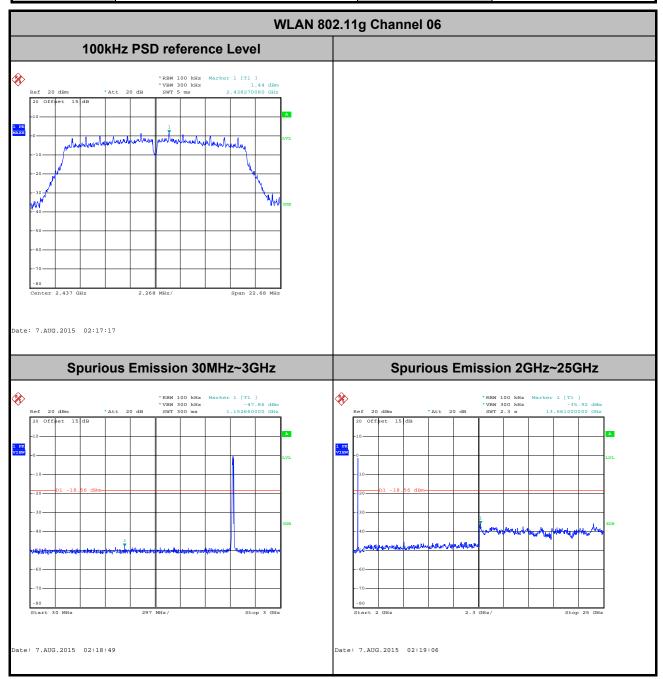
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Mygai Mo



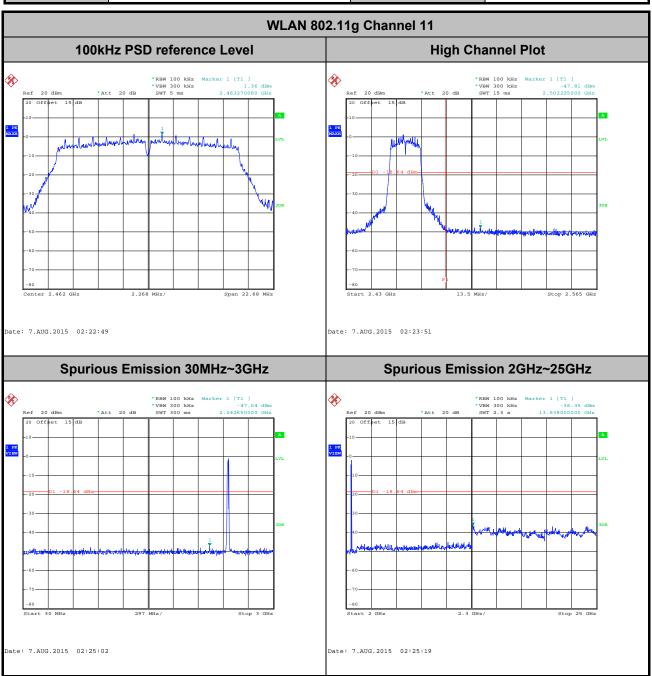
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



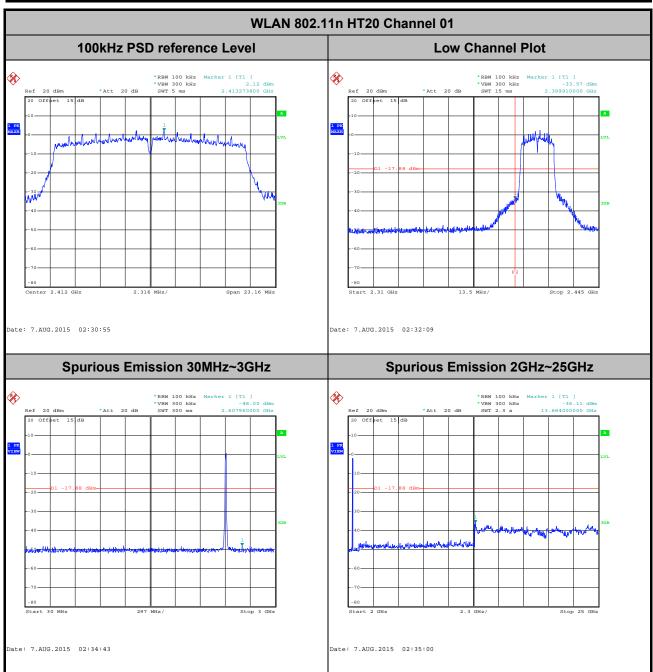
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Mygai Mo



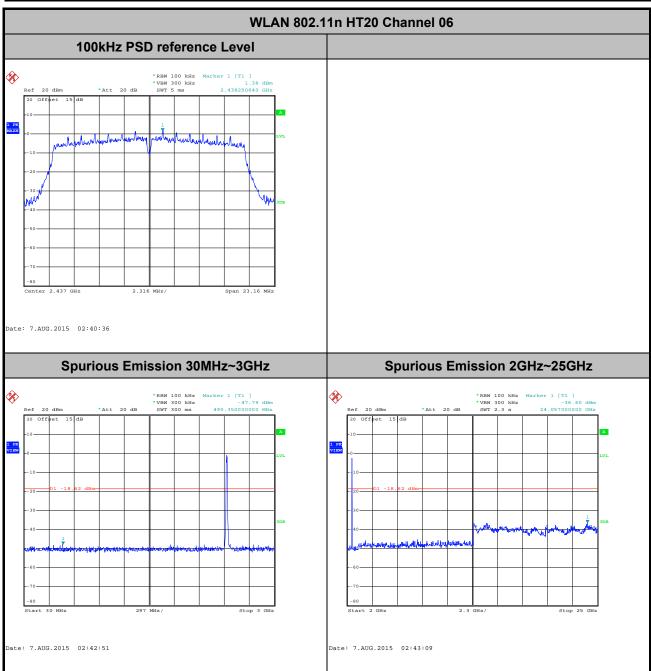
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Mygai Mo



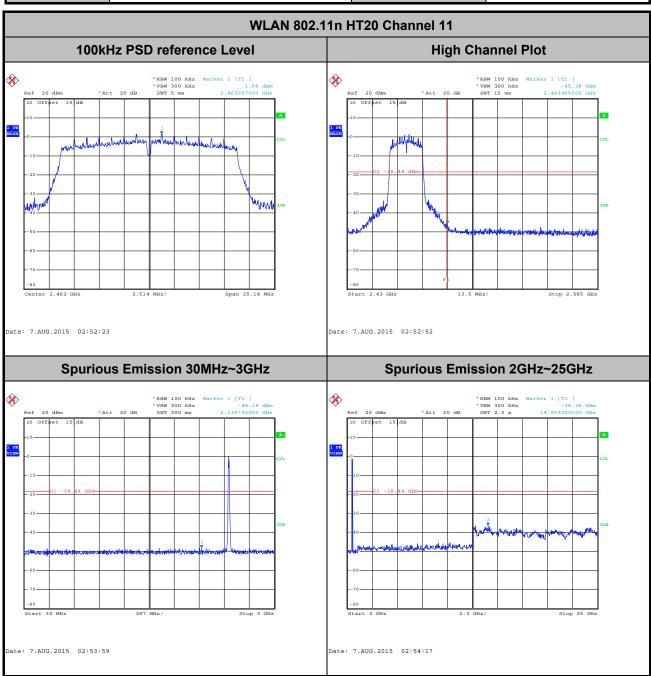
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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



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Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Mygai Mo

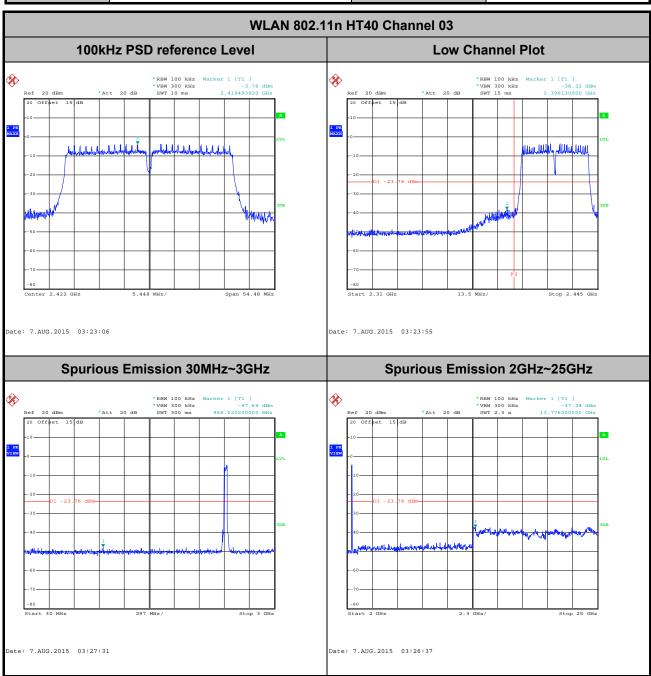


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 Test Mode :
 802.11n HT40
 Temperature :
 24~26 ℃

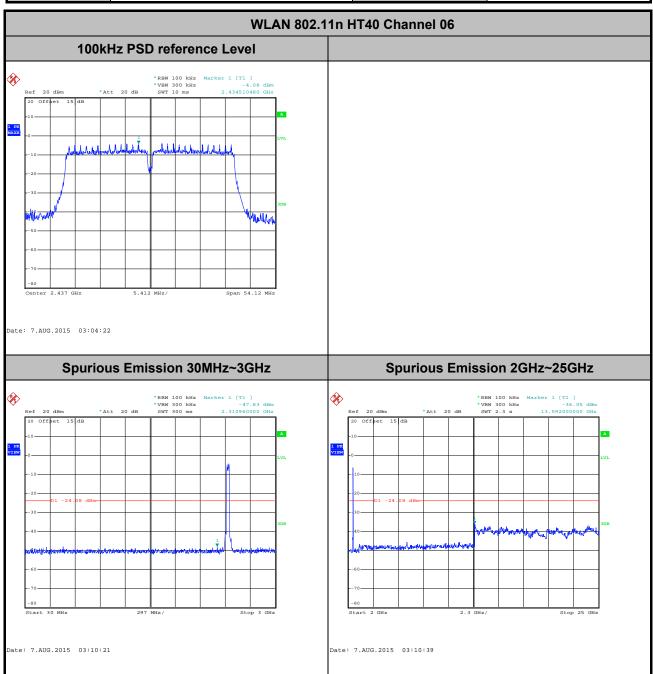
 Test Band :
 2.4GHz Low
 Relative Humidity :
 50~53%

 Test Channel :
 03
 Test Engineer :
 Mygai Mo



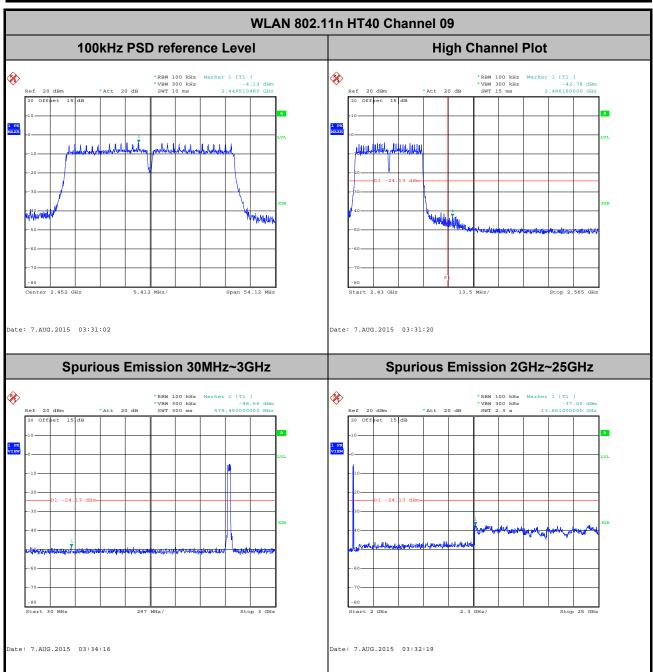
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Test Mode :	802.11n HT40	Temperature :	<b>24~26</b> ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	09	Test Engineer :	Mygai Mo



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## 3.5 Radiated Band Edges and Spurious Emission Measurement

### 3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

## 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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#### 3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f \ge 1$  GHz for peak measurement. For average measurement:
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100.00	-	-	10Hz
802.11g	97.90	1.40	0.71	1kHz
2.4GHz 802.11n HT20	96.94	1.30	0.77	1kHz
2.4GHz 802.11n HT40	94.52	0.66	1.53	3kHz

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### 3.5.4 Test Setup

#### For radiated emissions below 30MHz

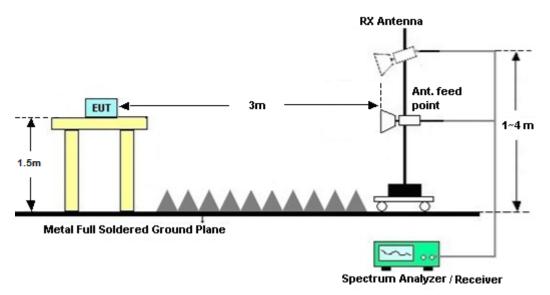


#### For radiated emissions from 30MHz to 1GHz



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#### For radiated emissions above 1GHz



## 3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

#### 3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

## 3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10<sup>th</sup> Harmonic)

Please refer to Appendix B.

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#### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit of AC Conducted Emission

For equipment 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.

Frequency of Emission	Conducted Limit (dBμV)		
(MHz)	Quasi-Peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

<sup>\*</sup>Decreases with the logarithm of the frequency.

## 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.6.3 **Test Procedures**

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

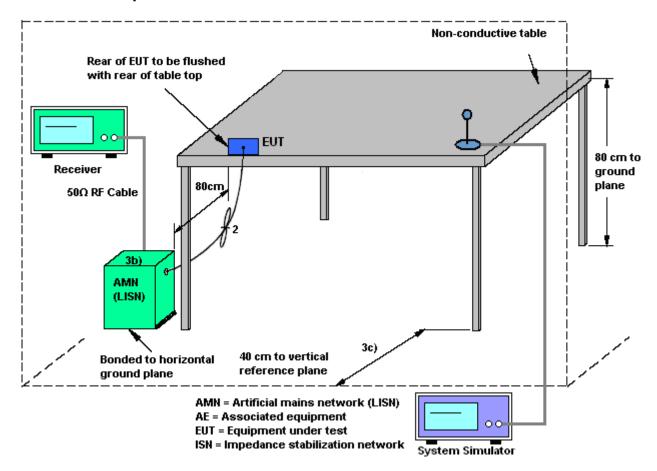
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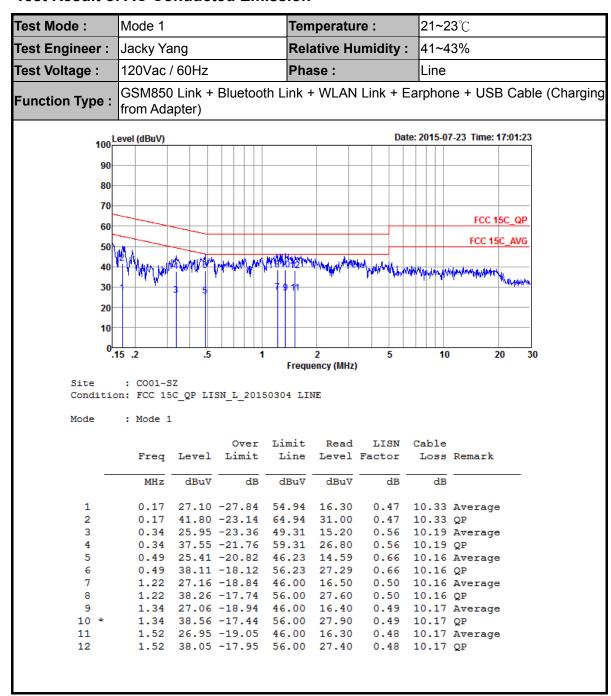


#### 3.6.4 Test Setup



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#### 3.6.5 Test Result of AC Conducted Emission



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Test Mode :	Mode 1			Ten	nperatu	re:	21~2	<b>23</b> ℃			
Test Engineer :	Jacky Ya	ang		Rel	ative H	umidity	: 41~4	41~43%			
Test Voltage :	120Vac	/ 60Hz		Pha	ise :		ral	al			
Function Type :	GSM850 from Ada		Bluetoo	th Link -	+ WLAN	I Link + E	Earphor	arphone + USB Cable (Cha			
400L	evel (dBuV)					Da	te: 2015-0	7-23 Time: 17:05	5:22		
90											
80							++++		_		
70											
60								FCC 15C_0	QР		
<u> </u>								FCC 15C_A	VG		
50	.444								-		
40	WI WIND	MAN AND VARY	HATTA HATTA TO AND	rapid property	MARKIMINI	"programmed literature.					
30	, JANAM	3   5		+ •	1	1 1 1 1 1 1	Mark Mark Mark -	tajika jediki jajika mata jaja ama	eut-de-		
20					1						
10											
0	15 .2	.5	1		2	5	10	20	30		
				Frequ	ency (MHz	)					
Site	: CO01-S										
Condition	on: FCC 15	C_QP LI	SN_N_201	50304 NE	UTRAL						
Mode	: Mode 1										
			Over	Limit	Read	LISN	Cable				
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark			
_	MHz	dBuV	——dB	dBu∇	dBu∇	dB	dB		-		
1	0.18	28.41	-26.23	54.64	17.61	0.48	10.32	Average			
2		40.11	-24.53	64.64	29.31	0.48	10.32	QP			
3			-20.31					Average			
4 5 *	0.34		-21.41 -18.55					QP Average			
J	0.34	27.43	10.33	10.00	10./1	0.55	10.15	Average			

1	0.18	28.41 -26.23	54.64	17.61	0.48	10.32 Average
2	0.18	40.11 -24.53	64.64	29.31	0.48	10.32 QP
3	0.34	28.96 -20.31	49.27	18.20	0.57	10.19 Average
4	0.34	37.86 -21.41	59.27	27.10	0.57	10.19 QP
5 *	0.54	27.45 -18.55	46.00	16.71	0.59	10.15 Average
6	0.54	36.15 -19.85	56.00	25.41	0.59	10.15 QP
7	1.26	26.93 -19.07	46.00	16.21	0.56	10.16 Average
8	1.26	34.93 -21.07	56.00	24.21	0.56	10.16 QP
9	1.76	26.15 -19.85	46.00	15.40	0.57	10.18 Average
10	1.76	34.85 -21.15	56.00	24.10	0.57	10.18 QP
11	2.96	25.51 -20.49	46.00	14.70	0.60	10.21 Average
12	2.96	34.01 -21.99	56.00	23.20	0.60	10.21 QP

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#### 3.7 Antenna Requirements

#### 3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

#### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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### 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Aug. 07, 2015~ Aug. 20, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 28, 2015	Aug. 07, 2015~ Aug. 20, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 28, 2015	Aug. 07, 2015~ Aug. 20, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Aug. 16, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Aug. 16, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 06, 2015	Aug. 16, 2015	May 05, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Aug. 16, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Aug. 16, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Aug. 16, 2015	Sep. 03, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Aug. 16, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Aug. 16, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5G Hz	Jan. 28, 2015	Aug. 16, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Aug. 16, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 16, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 16, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Jul. 23, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Jul. 23, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Jul. 23, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	6160200008 91	100Vac~250Vac	Sep. 29, 2014	Jul. 23, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Jul. 23, 2015	Oct. 23, 2015	Conduction (CO01-SZ)

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### 5 Uncertainty of Evaluation

#### <u>Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)</u>

Measuring Uncertainty for a Level of	2.3dB
Confidence of 95% (U = 2Uc(y))	2.3uB

#### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3.9dB
Confidence of 95% (U = 2Uc(y))	0.5dD

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### Appendix A. Conducted test results

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Test Engineer:	Mygai Mo	Temperature:	24~26	°C
Test Date:	2015/8/7~2015/8/20	Relative Humidity:	50~53	%

#### TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

					2.4GHz Band	d		
Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	99% Occupied BW (MHz)	oied 6dB BW Limit (MHz)		Pass/Fail
11b	1Mbps	1	1	2412	12.55	10.00	0.50	Pass
11b	1Mbps	1	6	2437	12.45	10.00	0.50	Pass
11b	1Mbps	1	11	2462	12.50	9.56	0.50	Pass
11g	6Mbps	1	1	2412	17.40	15.64	0.50	Pass
11g	6Mbps	1	6	2437	17.45	15.12	0.50	Pass
11g	6Mbps	1	11	2462	17.45	15.12	0.50	Pass
HT20	MCS0	1	1	2412	18.15	15.44	0.50	Pass
HT20	MCS0	1	6	2437	18.20	15.44	0.50	Pass
HT20	MCS0	1	11	2462	18.15	16.76	0.50	Pass
HT40	MCS0	1	3	2422	36.40	36.32	0.50	Pass
HT40	MCS0	1	6	2437	36.50	36.08	0.50	Pass
HT40	MCS0	1	9	2452	36.50	36.08	0.50	Pass

## TEST RESULTS DATA Peak Power Table

					:	2.4GHz Band	i			
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
11b	1Mbps	1	1	2412	18.29	30.00	-3.50	14.79	36.00	Pass
11b	1Mbps	1	6	2437	17.79	30.00	-3.50	14.29	36.00	Pass
11b	1Mbps	1	11	2462	17.67	30.00	-3.50	14.17	36.00	Pass
11g	6Mbps	1	1	2412	21.98	30.00	-3.50	18.48	36.00	Pass
11g	6Mbps	1	6	2437	21.89	30.00	-3.50	18.39	36.00	Pass
11g	6Mbps	1	11	2462	21.93	30.00	-3.50	18.43	36.00	Pass
HT20	MCS0	1	1	2412	21.46	30.00	-3.50	17.96	36.00	Pass
HT20	MCS0	1	6	2437	21.30	30.00	-3.50	17.80	36.00	Pass
HT20	MCS0	1	11	2462	21.36	30.00	-3.50	17.86	36.00	Pass
HT40	MCS0	1	3	2422	21.13	30.00	-3.50	17.63	36.00	Pass
HT40	MCS0	1	6	2437	20.90	30.00	-3.50	17.40	36.00	Pass
HT40	MCS0	1	9	2452	20.15	30.00	-3.50	16.65	36.00	Pass

# TEST RESULTS DATA Average Power Table (Reporting Only)

	2.4GHz Band												
Mod.	Data Rate	<b>N</b> TX	CH. Freq		Duty Factor (dB)	Average Conducted Power (dBm)							
11b	1Mbps	1	1	2412	0.00	15.33							
11b	1Mbps	1	6	2437	0.00	14.79							
11b	1Mbps	1	11	2462	0.00	14.69							
11g	6Mbps	1	1	2412	0.09	14.40							
11g	6Mbps	1	6	2437	0.09	13.84							
11g	6Mbps	1	11	2462	0.09	13.99							
HT20	MCS0	1	1	2412	0.13	12.66							
HT20	MCS0	1	6	2437	0.13	12.20							
HT20	MCS0	1	11	2462	0.13	12.11							
HT40	MCS0	1	3	2422	0.24	10.93							
HT40	MCS0	1	6	2437	0.24	10.39							
HT40	MCS0	1	9	2452	0.24	10.46							

## TEST RESULTS DATA Peak Power Density

					2.4GHz Band	d		
Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-6.03	-3.50	8.00	Pass
11b	1Mbps	1	6	2437	-6.29	-3.50	8.00	Pass
11b	1Mbps	1	11	2462	-7.21	-3.50	8.00	Pass
11g	6Mbps	1	1	2412	-12.26	-3.50	8.00	Pass
11g	6Mbps	1	6	2437	-11.99	-3.50	8.00	Pass
11g	6Mbps	1	11	2462	-12.77	-3.50	8.00	Pass
HT20	MCS0	1	1	2412	-12.84	-3.50	8.00	Pass
HT20	MCS0	1	6	2437	-12.87	-3.50	8.00	Pass
HT20	MCS0	1	11	2462	-12.97	-3.50	8.00	Pass
HT40	MCS0	1	3	2422	-18.42	-3.50	8.00	Pass
HT40	MCS0	1	6	2437	-18.69	-3.50	8.00	Pass
HT40	MCS0	1	9	2452	-17.72	-3.50	8.00	Pass

### Appendix B. Radiated Spurious Emission

### 15C 2.4GHz 2400~2483.5MHz

#### WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dB <sub>µ</sub> V)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
		2389.92	43.21	-30.79	74	46.17	27.25	4.79	35	173	319	Р	Н
		2389.92	33.21	-20.79	54	36.17	27.25	4.79	35	173	319	Α	Н
000 441-	*	2412	95.88	-	-	98.75	27.31	4.82	35	173	319	Р	Н
802.11b CH 01	*	2412	90.72	-	-	93.59	27.31	4.82	35	173	319	Α	Н
2412MHz		2388.48	41.87	-32.13	74	44.85	27.25	4.79	35.02	210	198	Р	V
2412191112		2389.92	31.03	-22.97	54	33.99	27.25	4.79	35	210	198	Α	V
	*	2412	93.73	-	1	96.6	27.31	4.82	35	210	198	Р	V
	*	2412	88.52	1	-	91.39	27.31	4.82	35	210	198	Α	V
		2371.56	40.9	-33.1	74	43.94	27.19	4.79	35.02	154	44	Р	Н
		2387.85	26.54	-27.46	54	29.52	27.25	4.79	35.02	154	44	Α	Н
	*	2437	92.16	1	-	94.89	27.42	4.82	34.97	154	44	Р	Н
	*	2437	86.92	-	-	89.65	27.42	4.82	34.97	154	44	Α	Н
		2488.16	41.32	-32.68	74	43.75	27.6	4.89	34.92	154	44	Р	Н
802.11b CH 06		2483.52	27.61	-26.39	54	30.14	27.54	4.85	34.92	154	44	Α	Н
2437MHz		2375.16	40.59	-33.41	74	43.63	27.19	4.79	35.02	158	280	Р	٧
2707 IVII IZ		2388.12	27.03	-26.97	54	30.01	27.25	4.79	35.02	158	280	Α	V
	*	2437	93.28	-	-	96.01	27.42	4.82	34.97	158	280	Р	V
	*	2437	88.13	-	-	90.86	27.42	4.82	34.97	158	280	Α	٧
		2494.56	41.73	-32.27	74	44.14	27.6	4.89	34.9	158	280	Р	V
		2483.52	27.72	-26.28	54	30.25	27.54	4.85	34.92	158	280	Α	V

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	*	2462	93.8	-	-	96.42	27.48	4.85	34.95	196	283	Р	Н
	*	2462	88.57	-	-	91.19	27.48	4.85	34.95	196	283	Α	Н
		2483.72	42.1	-31.9	74	44.63	27.54	4.85	34.92	196	283	Р	Н
802.11b		2484.36	29.69	-24.31	54	32.22	27.54	4.85	34.92	196	283	Α	Н
CH 11 2462MHz	*	2462	91.41	-	-	94.03	27.48	4.85	34.95	228	280	Р	٧
2402WINZ	*	2462	86.3	-	-	88.92	27.48	4.85	34.95	228	280	Α	٧
		2497	41.2	-32.8	74	43.61	27.6	4.89	34.9	228	280	Р	٧
		2484.32	28.6	-25.4	54	31.13	27.54	4.85	34.92	228	280	Α	٧
				•		•			•			-	-

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Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

#### 15C 2.4GHz 2400~2483.5MHz

#### WIFI 802.11b (Harmonic @ 3m)

					`								
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
		4824	55.24	-18.76	74	75.61	31.05	6.97	58.39	150	306	Р	Н
802.11b		4824	52.06	-1.94	54	72.43	31.05	6.97	58.39	150	306	Α	Н
CH 01 2412MHz		4824	55.47	-18.53	74	75.84	31.05	6.97	58.39	177	61	Р	٧
24   21411  2		4824	52.68	-1.32	54	73.05	31.05	6.97	58.39	177	61	Α	٧
802.11b		4874	49.71	-24.29	74	70.26	31.12	6.99	58.66	150	360	Р	Н
		7311	46.41	-27.59	74	60.85	35.96	8.22	58.62	174	100	Р	Н
2437MHz		4874	50.54	-23.46	74	71.09	31.12	6.99	58.66	150	360	Р	٧
2437 WII IZ		7311	46.72	-27.28	74	61.16	35.96	8.22	58.62	174	100	Р	٧
		4924	48.94	-25.06	74	69.27	31.19	7	58.52	150	360	Р	Н
802.11b		7386	46.65	-27.35	74	60.84	36.08	8.27	58.54	150	274	Р	Н
CH 11 2462MHz		4924	46.76	-27.24	74	67.09	31.19	7	58.52	150	360	Р	V
Z40ZIVI TIZ		7386	47.34	-26.66	74	61.53	36.08	8.27	58.54	150	274	Р	٧
		I.	1			1	<u>I</u>		1				

#### Remark

1. No other spurious found.

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<sup>2.</sup> All results are PASS against Peak and Average limit line.

### 15C 2.4GHz 2400~2483.5MHz WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	(dB)	$(dB\mu V/m)$	(dB <sub>µ</sub> V)	( dB/m )	( dB )	( dB )	( cm )	(deg)	(P/A)	(H/V)
		2388.48	50.25	-23.75	74	53.23	27.25	4.79	35.02	192	357	Р	Н
		2389.92	32.82	-21.18	54	35.78	27.25	4.79	35	192	357	Α	Н
000 44	*	2412	91.11	-	-	93.98	27.31	4.82	35	192	357	Р	Н
802.11g CH 01	*	2412	80.55	-	-	83.42	27.31	4.82	35	192	357	Α	Н
2412MHz		2389.47	50.07	-23.93	74	53.05	27.25	4.79	35.02	250	84	Р	V
241211112		2389.92	32.9	-21.1	54	35.86	27.25	4.79	35	250	84	Α	V
	*	2412	89.24	-	-	92.11	27.31	4.82	35	250	84	Р	V
	*	2412	78.45	ı	-	81.32	27.31	4.82	35	250	84	Α	V
		2329.71	41.17	-32.83	74	44.49	27.01	4.74	35.07	169	58	Р	Н
		2387.85	27.54	-26.46	54	30.52	27.25	4.79	35.02	169	58	Α	Н
	*	2437	87.52	-	-	90.25	27.42	4.82	34.97	169	58	Р	Н
	*	2437	77.08	-	-	79.81	27.42	4.82	34.97	169	58	Α	Н
		2487.12	41.1	-32.9	74	43.63	27.54	4.85	34.92	169	58	Р	Н
802.11g		2483.56	27.81	-26.19	54	30.34	27.54	4.85	34.92	169	58	Α	Н
CH 06 2437MHz		2368.14	41.08	-32.92	74	44.23	27.13	4.74	35.02	161	201	Р	V
Z+37 WITIZ		2389.02	27.51	-26.49	54	30.49	27.25	4.79	35.02	161	201	Α	V
	*	2437	86.54	-	-	89.27	27.42	4.82	34.97	161	201	Р	V
	*	2437	76.14	-	-	78.87	27.42	4.82	34.97	161	201	Α	V
		2486.68	42	-32	74	44.53	27.54	4.85	34.92	161	201	Р	V
		2497.24	28.39	-25.61	54	30.8	27.6	4.89	34.9	161	201	Α	V

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	*	2462	91.86	1	1	94.48	27.48	4.85	34.95	241	350	Р	Н
	*	2462	81.59	-	-	84.21	27.48	4.85	34.95	241	350	Α	Н
		2484.12	47.03	-26.97	74	49.56	27.54	4.85	34.92	241	350	Р	Н
802.11g		2483.52	30.87	-23.13	54	33.4	27.54	4.85	34.92	241	350	Α	Н
CH 11 2462MHz	*	2462	90.78	1	1	93.4	27.48	4.85	34.95	152	105	Р	٧
	*	2462	80.1	1	1	82.72	27.48	4.85	34.95	152	105	Α	٧
		2483.88	45.22	-28.78	74	47.75	27.54	4.85	34.92	152	105	Р	٧
		2483.56	30.34	-23.66	54	32.87	27.54	4.85	34.92	152	105	Α	٧
	1 N	o other spurio	ua faund										

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Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

#### 15C 2.4GHz 2400~2483.5MHz

#### WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	(dB)	(dBµV/m)	(dBµV)	( dB/m )	( dB )	(dB)	( cm )	( deg )	(P/A)	(H/V)
802.11g		4824	47.65	-26.35	74	68.02	31.05	6.97	58.39	150	360	Р	Н
CH 01 2412MHz		4824	49.03	-24.97	74	69.4	31.05	6.97	58.39	150	360	Р	V
		4874	45.65	-28.35	74	66.2	31.12	6.99	58.66	150	360	Р	Н
802.11g		7311	47.49	-26.51	74	61.93	35.96	8.22	58.62	174	100	Р	Н
CH 06 2437MHz		4874	45.07	-28.93	74	65.62	31.12	6.99	58.66	150	360	Р	٧
2437191112		7311	48.81	-25.19	74	63.25	35.96	8.22	58.62	174	100	Р	٧
000 44		4924	44.92	-29.08	74	65.25	31.19	7	58.52	150	360	Р	Н
802.11g		7386	46.66	-27.34	74	60.85	36.08	8.27	58.54	150	274	Р	Н
CH 11 2462MHz		4924	43.96	-30.04	74	64.29	31.19	7	58.52	150	360	Р	٧
2702191112		7386	48.44	-25.56	74	62.63	36.08	8.27	58.54	150	274	Р	V

#### Remark

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<sup>1.</sup> No other spurious found.

<sup>2.</sup> All results are PASS against Peak and Average limit line.

#### 15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
		2387.94	52.21	-21.79	74	55.19	27.25	4.79	35.02	220	360	Р	Н
		2389.92	34.66	-19.34	54	37.62	27.25	4.79	35	220	360	Α	Н
802.11n	*	2412	90.98	-	-	93.85	27.31	4.82	35	220	360	Р	Н
HT20	*	2412	80.72	-	ı	83.59	27.31	4.82	35	220	360	Α	Н
CH 01		2389.92	49.68	-24.32	74	52.64	27.25	4.79	35	150	143	Р	٧
2412MHz		2389.92	33.07	-20.93	54	36.03	27.25	4.79	35	150	143	Α	٧
	*	2412	88.32	ı	1	91.19	27.31	4.82	35	150	143	Р	٧
	*	2412	77.58	ı	1	80.45	27.31	4.82	35	150	143	Α	٧
	*	2462	89.15	ı	ı	91.77	27.48	4.85	34.95	193	346	Р	Н
	*	2462	78.12	1	-	80.74	27.48	4.85	34.95	193	346	Α	Н
802.11n		2484.52	46.13	-27.87	74	48.66	27.54	4.85	34.92	193	346	Р	Н
HT20		2483.64	30.03	-23.97	54	32.56	27.54	4.85	34.92	193	346	Α	Н
CH 06	*	2462	83.47	-	-	86.09	27.48	4.85	34.95	172	328	Р	٧
2437MHz	*	2462	72.56	-	-	75.18	27.48	4.85	34.95	172	328	Α	٧
		2495.56	41.81	-32.19	74	44.22	27.6	4.89	34.9	172	328	Р	٧
		2483.6	28.28	-25.72	54	30.81	27.54	4.85	34.92	172	328	Α	٧
	*	2462	89.15	ı	1	91.77	27.48	4.85	34.95	193	346	Р	Н
	*	2462	78.12	ı	1	80.74	27.48	4.85	34.95	193	346	Α	Н
802.11n		2484.52	46.13	-27.87	74	48.66	27.54	4.85	34.92	193	346	Р	Н
HT20		2483.64	30.03	-23.97	54	32.56	27.54	4.85	34.92	193	346	Α	Н
CH 11	*	2462	83.47	-	-	86.09	27.48	4.85	34.95	172	328	Р	V
2462MHz	*	2462	72.56	-	-	75.18	27.48	4.85	34.95	172	328	Α	٧
		2495.56	41.81	-32.19	74	44.22	27.6	4.89	34.9	172	328	Р	V
		2483.6	28.28	-25.72	54	30.81	27.54	4.85	34.92	172	328	Α	٧

Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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## 15C 2.4GHz 2400~2483.5MHz

### WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11n		4824	49.43	-24.57	74	69.8	31.05	6.97	58.39	150	360	Р	Н
HT20		4024	40.40	24.07	7-7	00.0	01.00	0.07	00.00	100	000	'	''
CH 01		1001			_,		24.25			4.50			.,
2412MHz		4824	48	-26	74	68.37	31.05	6.97	58.39	150	360	Р	V
802.11n		4874	45.7	-28.3	74	66.25	31.12	6.99	58.66	150	360	Р	Н
HT20		7311	46.86	-27.14	74	61.3	35.96	8.22	58.62	174	100	Р	Н
CH 06		4874	44.16	-29.84	74	64.71	31.12	6.99	58.66	150	360	Р	V
2437MHz		7311	46.99	-27.01	74	61.43	35.96	8.22	58.62	174	100	Р	V
802.11n		4924	44.85	-29.15	74	65.18	31.19	7	58.52	150	360	Р	Н
HT20		7386	47.27	-26.73	74	61.46	36.08	8.27	58.54	150	274	Р	Н
CH 11		4924	44.07	-29.93	74	64.4	31.19	7	58.52	150	360	Р	V
2462MHz		7386	47.01	-26.99	74	61.2	36.08	8.27	58.54	150	274	Р	V
CH 06 2437MHz 802.11n HT20 CH 11		4874 7311 4924 7386 4924	44.16 46.99 44.85 47.27 44.07	-29.84 -27.01 -29.15 -26.73 -29.93	74 74 74 74 74	64.71 61.43 65.18 61.46 64.4	31.12 35.96 31.19 36.08 31.19	6.99 8.22 7 8.27 7	58.66 58.62 58.52 58.54 58.52	150 174 150 150	360 100 360 274 360	P P P	

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Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

#### 15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB/m )	(dB)	( dB )	( cm )	( deg )	(P/A)	(H/V)
		2388.93	54.35	-19.65	74	57.33	27.25	4.79	35.02	156	299	Р	Н
		2389.65	36.34	-17.66	54	39.32	27.25	4.79	35.02	156	299	Α	Н
	*	2422	86.28	-	-	89.06	27.37	4.82	34.97	156	299	Р	Н
	*	2422	75.79	-	-	78.57	27.37	4.82	34.97	156	299	Α	Н
802.11n		2483.68	42.07	-31.93	74	44.6	27.54	4.85	34.92	156	299	Р	Н
HT40		2484.16	28.97	-25.03	54	31.5	27.54	4.85	34.92	156	299	Α	Н
CH 03		2388.39	54.31	-19.69	74	57.29	27.25	4.79	35.02	150	175	Р	V
2422MHz		2389.83	36.73	-17.27	54	39.69	27.25	4.79	35	150	175	Α	٧
	*	2422	86.67	ı	1	89.45	27.37	4.82	34.97	150	175	Р	٧
	*	2422	75.91	1	1	78.69	27.37	4.82	34.97	150	175	Α	٧
		2486.56	40.87	-33.13	74	43.4	27.54	4.85	34.92	150	175	Р	٧
		2483.56	28.84	-25.16	54	31.37	27.54	4.85	34.92	150	175	Α	٧
		2384.97	41.75	-32.25	74	44.79	27.19	4.79	35.02	153	300	Р	Н
		2386.68	29.18	-24.82	54	32.16	27.25	4.79	35.02	153	300	Α	Н
	*	2437	85.13	-	-	87.86	27.42	4.82	34.97	153	300	Р	Н
	*	2437	74.09	-	-	76.82	27.42	4.82	34.97	153	300	Α	Н
802.11n		2489.16	43.54	-30.46	74	45.97	27.6	4.89	34.92	153	300	Р	Н
HT40		2484.84	29.24	-24.76	54	31.77	27.54	4.85	34.92	153	300	Α	Н
CH 06		2388.03	42.5	-31.5	74	45.48	27.25	4.79	35.02	160	179	Р	٧
2437MHz		2389.2	29.12	-24.88	54	32.1	27.25	4.79	35.02	160	179	Α	٧
	*	2437	83.69	-	-	86.42	27.42	4.82	34.97	160	179	Р	٧
	*	2437	73.3	-	-	76.03	27.42	4.82	34.97	160	179	Α	٧
		2486.6	42.81	-31.19	74	45.34	27.54	4.85	34.92	160	179	Р	٧
		2499.84	28.87	-25.13	54	31.28	27.6	4.89	34.9	160	179	Α	V

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		2484.04	52.5	-21.5	74	55.03	27.54	4.85	34.92	250	141	Р	V
	*	2452	76.39	-	-	79.07	27.42	4.85	34.95	250	141	Α	V
	*	2452	87.36	-	-	90.04	27.42	4.85	34.95	250	141	Р	٧
2452MHz		2388.12	28.25	-25.75	54	31.23	27.25	4.79	35.02	250	141	Α	V
CH 09		2363.64	41.63	-32.37	74	44.81	27.13	4.74	35.05	250	141	Р	٧
HT40		2483.52	30.71	-23.29	54	33.24	27.54	4.85	34.92	159	292	Α	Н
802.11n		2486.64	49.63	-24.37	74	52.16	27.54	4.85	34.92	159	292	Р	Н
	*	2452	74.25	-	-	76.93	27.42	4.85	34.95	159	292	Α	Н
	*	2452	85.41	-	-	88.09	27.42	4.85	34.95	159	292	Р	Η
		2388.66	28.68	-25.32	54	31.66	27.25	4.79	35.02	159	292	Α	Ι
		2373.54	41.92	-32.08	74	44.96	27.19	4.79	35.02	159	292	Р	Ι

Remark

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<sup>1.</sup> No other spurious found.

<sup>2.</sup> All results are PASS against Peak and Average limit line.

### 15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT40 (Harmonic @ 3m)

						•							
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	(dB)	(dB)	( cm )	( deg )	(P/A)	(H/V)
802.11n		4844	45.28	-28.72	74	65.72	31.07	6.97	58.48	150	360	Р	Н
HT40		7266	47.23	-26.77	74	61.66	35.91	8.19	58.53	200	360	Р	Н
CH 03		4844	43.67	-30.33	74	64.11	31.07	6.97	58.48	150	360	Р	٧
2422MHz		7266	46.9	-27.1	74	61.33	35.91	8.19	58.53	200	360	Р	٧
802.11n		4874	43.1	-30.9	74	63.65	31.12	6.99	58.66	150	360	Р	Н
HT40		7311	47.44	-26.56	74	61.88	35.96	8.22	58.62	150	360	Р	Н
CH 06		4874	43.65	-30.35	74	64.2	31.12	6.99	58.66	150	360	Р	٧
2437MHz		7311	47.27	-26.73	74	61.71	35.96	8.22	58.62	150	360	Р	٧
802.11n		4904	42.99	-31.01	74	63.46	31.17	7	58.64	150	360	Р	Н
HT40		7356	47.96	-26.04	74	62.25	36.03	8.25	58.57	150	360	Р	Н
CH 09		4904	43.36	-30.64	74	63.83	31.17	7	58.64	150	360	Р	٧
2452MHz		7356	47.02	-26.98	74	61.31	36.03	8.25	58.57	150	360	Р	٧

#### Remark

1. No other spurious found.

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<sup>2.</sup> All results are PASS against Peak and Average limit line.

### 15C Emission below 1GHz 2.4GHz WIFI 802.11b (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	( dBµV/m )	(dB)	$(dB\mu V/m)$	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	(deg)	(P/A)	(H/V)
		82.38	12.06	-27.94	40	34.57	9.74	1.14	33.39	-	-	Р	Н
		185.2	15.5	-28	43.5	36.69	10.42	1.57	33.18	ı	-	Р	Н
		384.05	17.02	-28.98	46	31.64	16.08	2.12	32.82	-	-	Р	Н
		565.44	20.63	-25.37	46	31.92	18.49	2.48	32.26	ı	ı	Р	Н
		719.67	21.4	-24.6	46	30.85	19.64	2.75	31.84	1	1	Р	Н
2.4GHz 802.11b		834.13	22.36	-23.64	46	30.33	20.51	2.99	31.47	100	200	Р	Н
LF		46.49	24.13	-15.87	40	46.16	10.35	1	33.38	120	210	Р	V
		81.41	22.02	-17.98	40	44.65	9.62	1.14	33.39	ı	ı	Р	V
		169.68	17.04	-26.46	43.5	37.96	10.76	1.53	33.21	1	ı	Р	V
		372.41	17.49	-28.51	46	32.45	15.77	2.12	32.85	-	-	Р	V
		493.66	18.99	-27.01	46	31.28	17.81	2.41	32.51	-	-	Р	V
		745.86	21.78	-24.22	46	30.86	19.82	2.85	31.75	-	-	Р	V
Remark		o other spurio I results are F		st limit li	ne.								

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All results are PASS against limit line.

#### Note symbol

	Fundamental Frequency which can be ignored. However, the level of any
*	unwanted emissions shall not exceed the level of the fundamental frequency per
	15.209(c).
!	Test result is <b>over limit</b> line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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#### A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dB <sub>µ</sub> V)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level( $dB\mu V/m$ ) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level( $dB\mu V/m$ ) Limit Line( $dB\mu V/m$ )
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

#### For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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