

Report No.: FR441502C

# **FCC RF Test Report**

APPLICANT : CT Asia
EQUIPMENT : Tablet PC

BRAND NAME : BLU

MODEL NAME : Touch Book 7.0 3G FCC ID : YHLBLUTB703G

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Apr. 15, 2014 and testing was completed on May 09, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and the testing has shown the tested sample to be 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.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

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Testing Laboratory 2353



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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR441502C	Rev. 01	Initial issue of report	May 13, 2014

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**SUMMARY OF TEST RESULT** 

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	, 00 dD -	Pass	-
3.4		Conducted Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.23 dB at 2484.730 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.32 dB at 0.490 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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## 1 General Description

## 1.1 Applicant

**CT** Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

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#### 1.2 Manufacturer

Nanjing Wanlida Technology Co., Ltd.

NanjingWanlida Industrial Zone, Zhang Zhou

## 1.3 Feature of Equipment Under Test

Product Feature						
Equipment	Tablet PC					
Brand Name	BLU					
Model Name	Touch Book 7.0 3G					
FCC ID	YHLBLUTB703G					
	GSM/GPRS/WCDMA/HSPA/HSPA+(Downlink Only)/					
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/					
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE					
HW Version	V2.0					
SW Version	BLU_P-200L_V01_GENERIC_04-04-2014-1200					
EUT Stage	Identical Prototype					

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

## 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard						
Tx/Rx Channel Frequency Range 2412 MHz ~ 2462 MHz						
	802.11b : 15.19 dBm (0.0330 W)					
Maximum (Peak) Output Power to	802.11g : 20.71 dBm (0.1178 W)					
Antenna	802.11n HT20 : 20.48 dBm (0.1117 W)					
	802.11n HT40 : 20.09 dBm (0.1021 W)					
Antenna Type	PIFA Antenna with gain -2.50 dBi					
Type of Medulation	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 Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
No. 3 Building, the third floor of south, Shahe River west, Fengzey warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.  TEL: +86-755-3320-2398						
Test Site No.	Sporto	on Site No.	FCC Registration No.			
rest Site NO.	TH01-SZ	03CH01-SZ	831040			

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Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Took Site No	Sporton Site No.	FCC Registration No.			
Test Site No.	CO01-KS	149928			

Note: The test site complies with ANSI C63.4 2003 requirement.

## 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 v03r01
- ANSI C63.4-2003

#### Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. 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 (X 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
2400-2483.5 MHz	3	2422	9	2452
2400-2403.5 IVITZ	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 Power (dBm)  DSSS Data Rate						
Channel	el Frequency							
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps			
CH 01	2412 MHz	<mark>15.19</mark>	15.16	15.11	15.04			
CH 06	2437 MHz	15.08	15.06	15.05	14.94			
CH 11	2462 MHz	15.15	15.13	15.08	15.10			

		2.4GHz 802.11g RF Power (dBm)							
Channel	Frequency	OFDM Data Rate							
		6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
CH 01	2412 MHz	19.67	19.65	19.62	19.60	19.62	19.59	19.53	19.57
CH 06	2437 MHz	20.04	20.00	19.95	19.88	19.96	19.91	19.84	19.94
CH 11	2462 MHz	20.71	20.64	20.64	20.58	20.62	20.60	20.48	20.61

2.4GHz 802.11n HT20 RF Power (dBm)									
Channel	Frequency	OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412 MHz	19.39	19.25	19.27	19.23	19.28	19.24	19.34	19.25
CH 06	2437 MHz	19.83	19.66	19.66	19.61	19.66	19.62	19.76	19.66
CH 11	2462 MHz	<mark>20.48</mark>	20.30	20.33	20.23	20.28	20.29	20.37	20.30

	Frequency	2.4GHz 802.11n HT40 RF Power (dBm)							n)	
Channel		OFDM Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 03	2422 MHz	19.43	19.17	19.04	19.07	19.01	19.11	19.02	18.97	
CH 06	2437 MHz	19.73	19.42	19.28	19.35	19.27	19.32	19.29	19.22	
CH 09	2452 MHz	20.09	19.80	19.61	19.68	19.65	19.71	19.64	19.60	

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## 2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

i illai results	Test Cases								
	Test Items	Mode	Data Rate	Test Channel					
		802.11b	1 Mbps	1/6/11					
	6dB BW	802.11g	6 Mbps	1/6/11					
	Power Spectral Density	802.11n HT20	MCS0	1/6/11					
		802.11n HT40	MCS0	3/6/9					
		802.11b	1 Mbps	1/6/11					
	Out and Barrers	802.11g	6 Mbps	1/6/11					
	Output Power	802.11n HT20	MCS0	1/6/11					
Conducted		802.11n HT40	MCS0	3/6/9					
TCs		802.11b	1 Mbps	1/11					
	Conducted Band Edge	802.11g	6 Mbps	1/11					
	Conducted Band Edge	802.11n HT20	MCS0	1/11					
		802.11n HT40	MCS0	3/9					
		802.11b	1 Mbps	1/6/11					
	Conducted Spurious	802.11g	6 Mbps	1/6/11					
	Emission	802.11n HT20	MCS0	1/6/11					
		802.11n HT40	MCS0	3/6/9					
		802.11b	1 Mbps	1/11					
	Radiated Band Edge	802.11g	6 Mbps	1/11					
	Radiated Balld Edge	802.11n HT20	MCS0	1/11					
Radiated		802.11n HT40	MCS0	3/9					
TCs		802.11b	1 Mbps	1/6/11					
	Radiated Spurious	802.11g	6 Mbps	1/6/11					
	Emission	802.11n HT20	MCS0	1/6/11					
		802.11n HT40	MCS0	3/6/9					
AC									
Conducted	Mode 1 : GSM850 Idle +	Bluetooth Link + WLAN Link +	- USB Cable (Charging from A	dapter) + Earphone					
Emission									
Remark: For	Remark: For radiated test cases, the tests were performed with adapter, earphone, and USB cable.								

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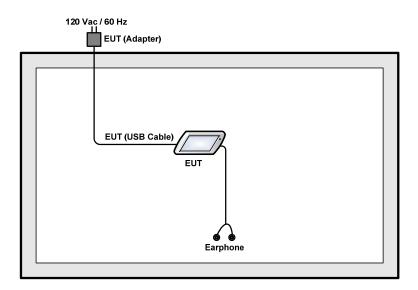
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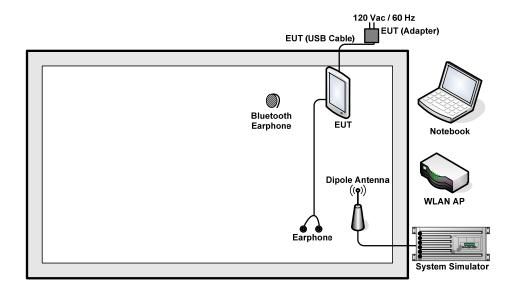
2.4 Connection Diagram of Test System



## <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-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
						AC I/P:
3.		Langua	G480	FCC DoC	N/A	Unshielded, 1.2 m
٥.	Notebook	Lenovo	G400	FCC DOC	IN/A	DC O/P:
						Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
5.	Earphone	Lenovo	SH100	FCC DoC	Unshielded, 1.2 m	N/A

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## 2.6 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously 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.

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#### 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 7.5 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 7.5 + 10 = 17.5 (dB)



3 **Test Result** 

#### 3.1 6dB Bandwidth Measurement

#### 3.1.1 Limit of 6dB 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

- The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r01.
- 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.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. 4. 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. Measure and record the results in the test report.

#### 3.1.4 Test Setup

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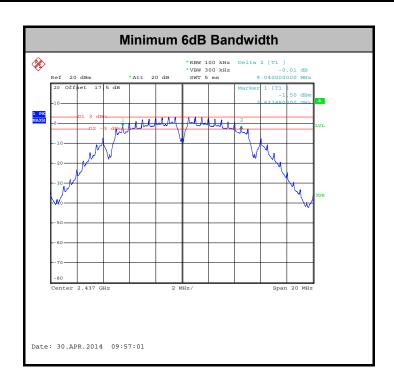
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#### 3.1.5 Test Result of 6dB Bandwidth

Test Band :	2.4GHz	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	9.54	0.5	Pass
11b	1Mbps	1	6	2437	9.04	0.5	Pass
11b	1Mbps	1	11	2462	10.00	0.5	Pass
11g	6Mbps	1	1	2412	15.68	0.5	Pass
11g	6Mbps	1	6	2437	15.32	0.5	Pass
11g	6Mbps	1	11	2462	15.56	0.5	Pass
HT20	MCS0	1	1	2412	15.96	0.5	Pass
HT20	MCS0	1	6	2437	15.96	0.5	Pass
HT20	MCS0	1	11	2462	15.96	0.5	Pass
HT40	MCS0	1	3	2422	35.20	0.5	Pass
HT40	MCS0	1	6	2437	35.20	0.5	Pass
HT40	MCS0	1	9	2452	35.20	0.5	Pass



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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 v03r01.
- 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



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## 3.2.5 Test Result of Peak Output Power

Test Mode :	2.4GHz	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	15.19	30	-2.50	Pass
11b	1Mbps	1	6	2437	15.08	30	-2.50	Pass
11b	1Mbps	1	11	2462	15.15	30	-2.50	Pass
11g	6Mbps	1	1	2412	19.67	30	-2.50	Pass
11g	6Mbps	1	6	2437	20.04	30	-2.50	Pass
11g	6Mbps	1	11	2462	20.71	30	-2.50	Pass
HT20	MCS0	1	1	2412	19.39	30	-2.50	Pass
HT20	MCS0	1	6	2437	19.83	30	-2.50	Pass
HT20	MCS0	1	11	2462	20.48	30	-2.50	Pass
HT40	MCS0	1	3	2422	19.43	30	-2.50	Pass
HT40	MCS0	1	6	2437	19.73	30	-2.50	Pass
HT40	MCS0	1	9	2452	20.09	30	-2.50	Pass

Note: Measured power (dBm) has offset with cable loss.

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

Test Mode :	2.4GHz	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Duty Factor (dB)	Average Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	0.10	12.37	30	-2.50	Pass
11b	1Mbps	1	6	2437	0.10	12.22	30	-2.50	Pass
11b	1Mbps	1	11	2462	0.10	12.26	30	-2.50	Pass
11g	6Mbps	1	1	2412	0.50	12.52	30	-2.50	Pass
11g	6Mbps	1	6	2437	0.50	12.14	30	-2.50	Pass
11g	6Mbps	1	11	2462	0.50	12.24	30	-2.50	Pass
HT20	MCS0	1	1	2412	0.54	11.85	30	-2.50	Pass
HT20	MCS0	1	6	2437	0.54	11.55	30	-2.50	Pass
HT20	MCS0	1	11	2462	0.54	11.42	30	-2.50	Pass
HT40	MCS0	1	3	2422	1.04	10.85	30	-2.50	Pass
HT40	MCS0	1	6	2437	1.04	10.41	30	-2.50	Pass
HT40	MCS0	1	9	2452	1.04	10.28	30	-2.50	Pass

**Note:** Measured power (dBm) has offset with cable loss and duty factor.

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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 v03r01
- 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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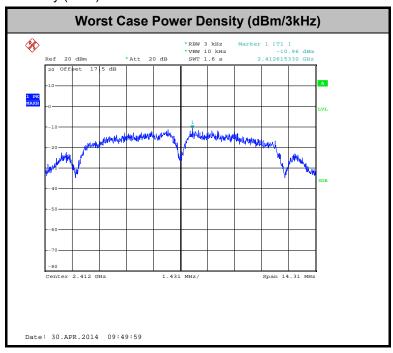
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## 3.3.5 Test Result of Power Spectral Density

Test Mode :	2.4GHz	Temperature :	24~26℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	Peak Power Density (dBm/3kHz)	Max. Limits (dBm/3kHz)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	-10.96	8	-2.50	Pass
11b	1Mbps	1	6	2437	-11.40	8	-2.50	Pass
11b	1Mbps	1	11	2462	-11.13	8	-2.50	Pass
11g	6Mbps	1	1	2412	-12.18	8	-2.50	Pass
11g	6Mbps	1	6	2437	-12.29	8	-2.50	Pass
11g	6Mbps	1	11	2462	-12.01	8	-2.50	Pass
HT20	MCS0	1	1	2412	-11.69	8	-2.50	Pass
HT20	MCS0	1	6	2437	-13.53	8	-2.50	Pass
HT20	MCS0	1	11	2462	-13.82	8	-2.50	Pass
HT40	MCS0	1	3	2422	-17.72	8	-2.50	Pass
HT40	MCS0	1	6	2437	-17.34	8	-2.50	Pass
HT40	MCS0	1	9	2452	-18.75	8	-2.50	Pass

Note: Measured power density (dBm) has offset with cable loss.



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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

The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.

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.

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

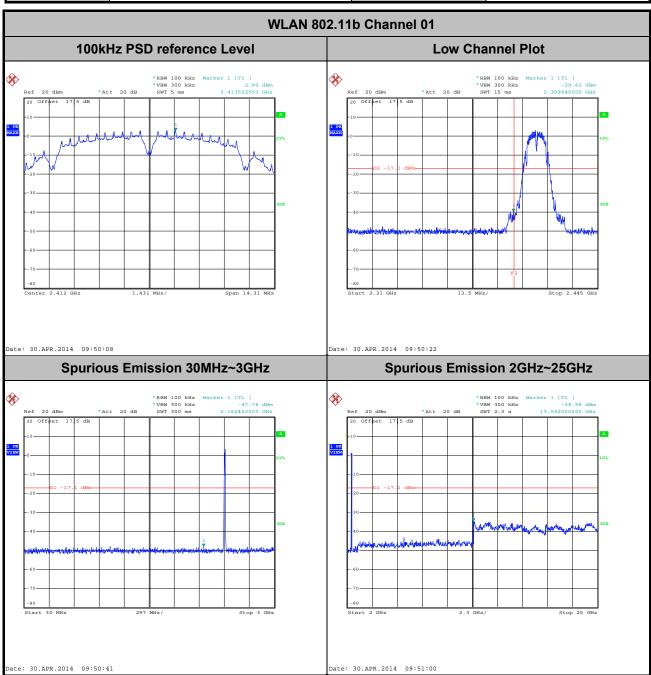
FCC ID: YHLBLUTB703G





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

Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Blithe Li



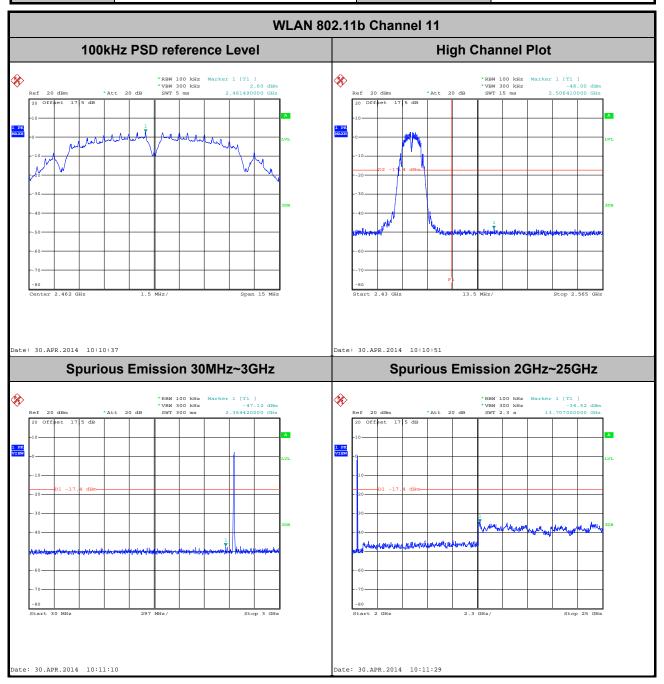
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Blithe Li

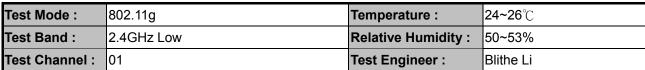


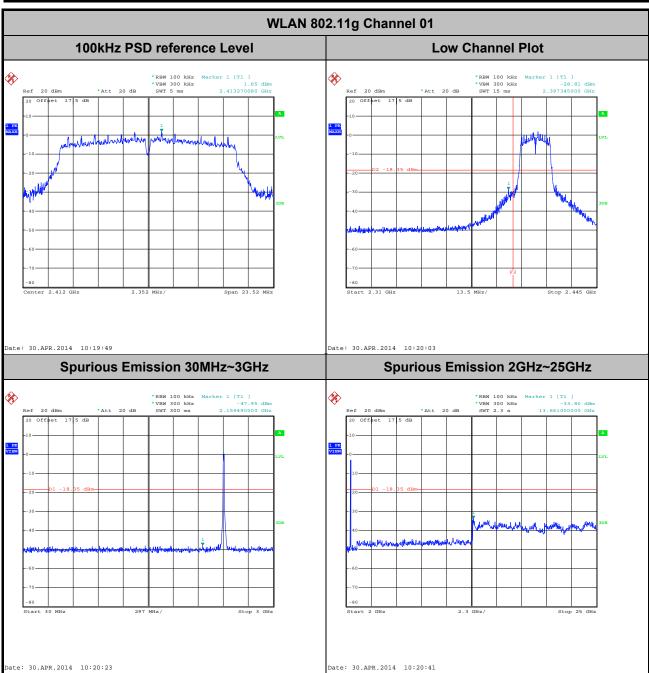
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Blithe Li



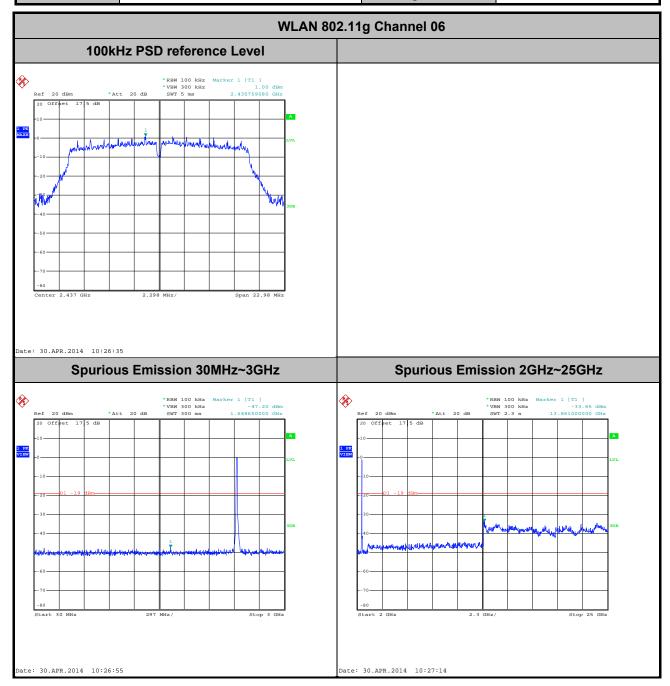
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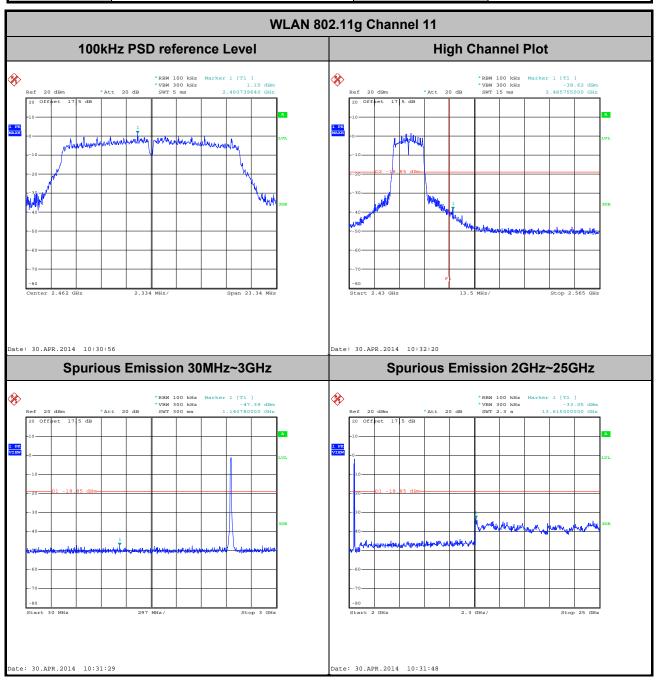
Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Blithe Li



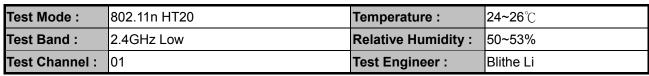
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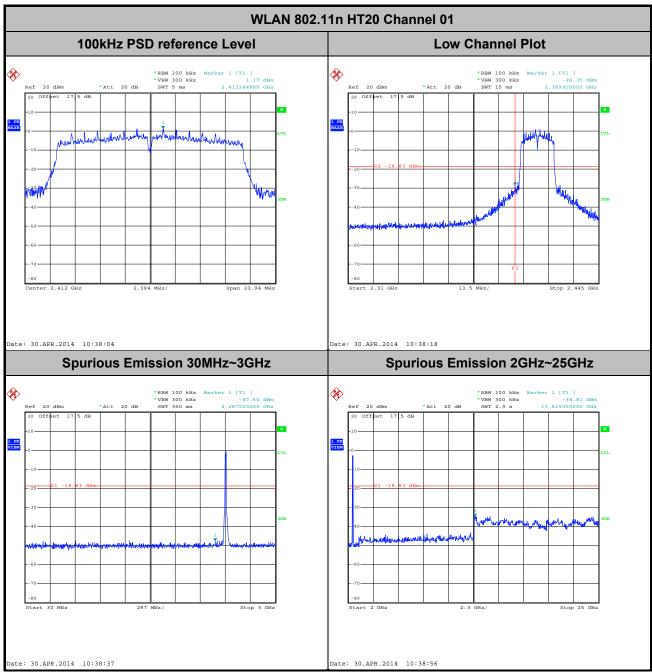
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Test Mode :	802.11g	Temperature :	<b>24~26</b> ℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Blithe Li



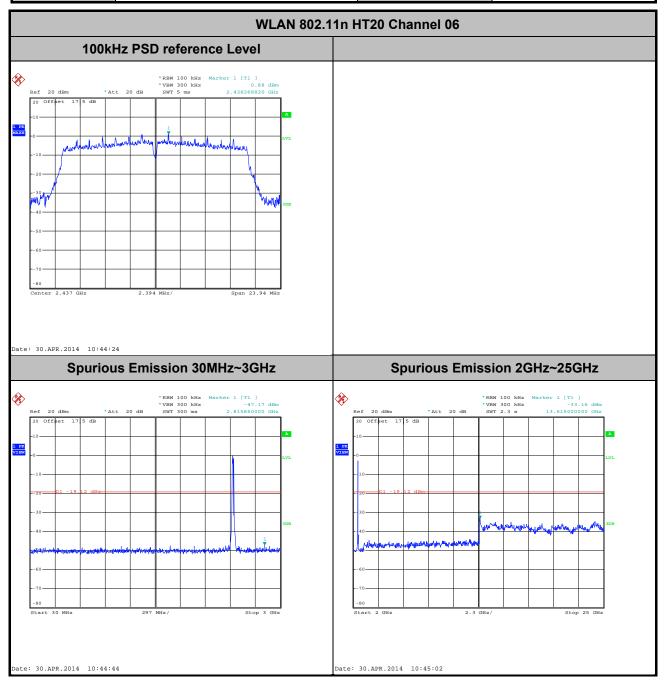
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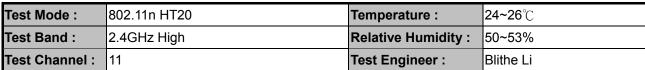


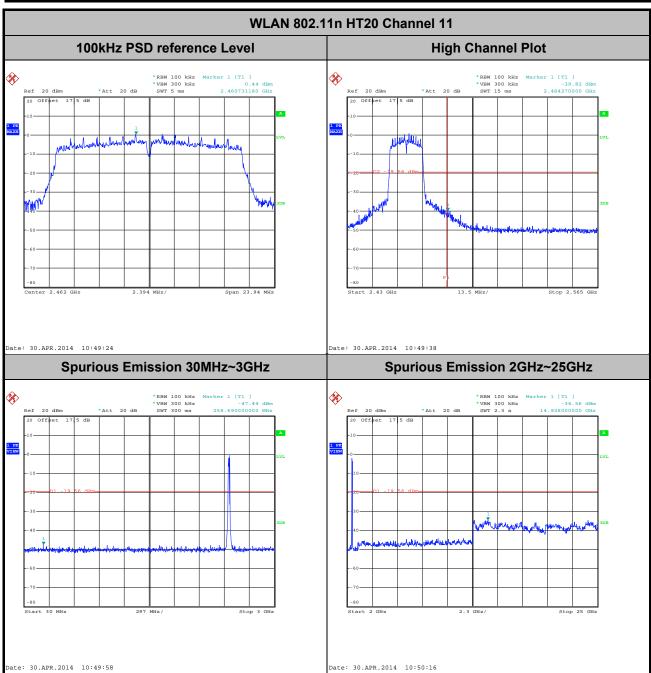
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Test Mode :	802.11n HT20	Temperature :	<b>24~26</b> ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Blithe Li

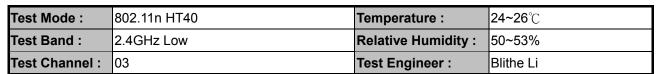


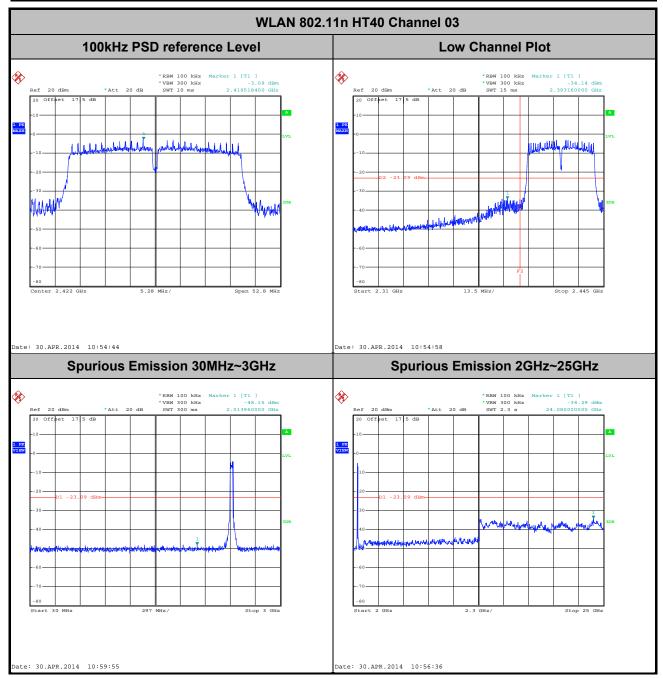
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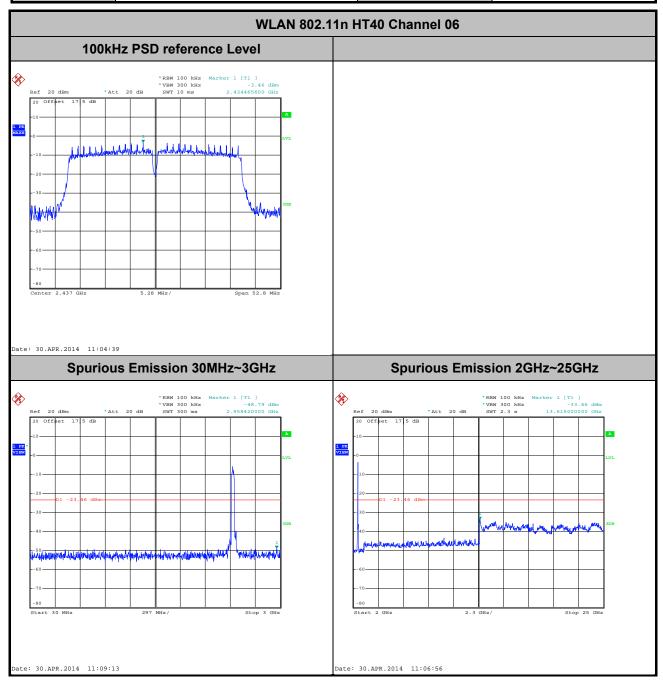
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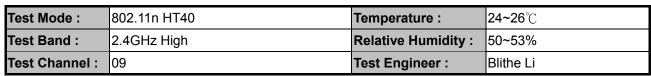
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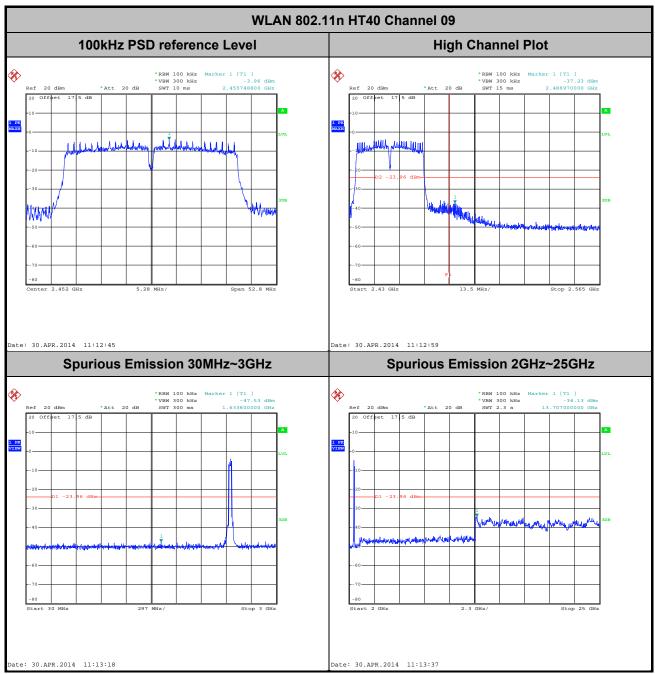
Test Mode :	802.11n HT40	Temperature :	<b>24~26</b> ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Blithe Li



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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 v03r01.
- 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.

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- 3. The EUT was placed on a turntable with 0.8 meter 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.

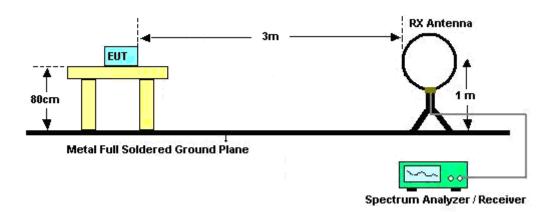
Band	Duty Cycle (%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	97.66	8.360	0.120	300Hz
802.11g	89.03	1.396	0.716	1kHz
2.4GHz 802.11n HT20	88.41	1.312	0.762	1kHz
2.4GHz 802.11n HT40	78.64	0.648	1.543	3kHz

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### 3.5.4 Test Setup

#### For radiated emissions below 30MHz



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

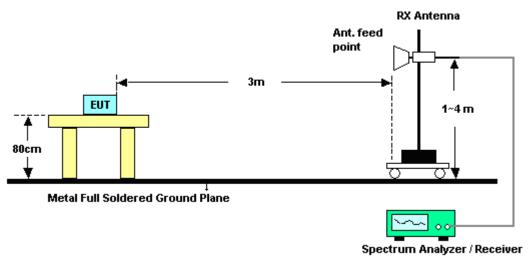


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## For radiated emissions above 1GHz



## 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.

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## 3.5.6 Test Result of Radiated Spurious at Band Edges

Test Mode :	802.11b	Temperature :	23~25°C
Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	01	Test Engineer :	Kaer Huang

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	ANTENNA POLARITY : HORIZONTAL										
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark	
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos		
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)		
2389.83	52.51	-21.49	74	42.63	31.98	5.62	27.72	103	312	Peak	
2386.95	39.97	-14.03	54	30.14	31.98	5.59	27.74	103	312	Average	

	ANTENNA POLARITY: VERTICAL										
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark	
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos		
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	( deg )		
2379.39	50.77	-23.23	74	41.02	31.9	5.59	27.74	195	256	Peak	
2387.22	39.47	-14.53	54	29.64	31.98	5.59	27.74	195	256	Average	

Test Mode :	802.11b	Temperature :	23~25°C
Test Band :	High	Relative Humidity :	48~52%
Test Channel :	11	Test Engineer :	Kaer Huang

	ANTENNA POLARITY : HORIZONTAL										
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark	
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos		
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)		
2495.8	52.12	-21.88	74	41.53	32.5	5.74	27.65	102	309	Peak	
2486.92	41.06	-12.94	54	30.61	32.41	5.71	27.67	102	309	Average	

ANTENNA POLARITY: VERTICAL										
Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2487.49	51.75	-22.25	74	41.3	32.41	5.71	27.67	105	265	Peak
2487.58	40.18	-13.82	54	29.64	32.5	5.71	27.67	105	265	Average

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Test Mode :	802.11g	Temperature :	23~25°C
Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	01	Test Engineer :	Kaer Huang

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	ANTENNA POLARITY : HORIZONTAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)			
2389.11	64.17	-9.83	74	54.34	31.98	5.59	27.74	130	310	Peak		
2389.92	49.85	-4.15	54	39.97	31.98	5.62	27.72	130	310	Average		

	ANTENNA POLARITY: VERTICAL											
Frequency	requency Level Over Limit Read Antenna Cable Preamp Ant Table Remai											
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)			
2389.29	60.04	-13.96	74	50.21	31.98	5.59	27.74	160	272	Peak		
2389.92	46.76	-7.24	54	36.88	31.98	5.62	27.72	160	272	Average		

Test Mode :	802.11g	Temperature :	23~25°C
Test Band :	High	Relative Humidity :	48~52%
Test Channel :	11	Test Engineer :	Kaer Huang

	ANTENNA POLARITY : HORIZONTAL											
Frequency	requency Level Over Limit Read Antenna Cable Preamp Ant Table Remark											
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)			
2484.73	72.77	-1.23	74	62.32	32.41	5.71	27.67	190	310	Peak		
2483.5	51.4	-2.6	54	40.95	32.41	5.71	27.67	190	310	Average		

	ANTENNA POLARITY: VERTICAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	( deg )			
2483.83	66.06	-7.94	74	55.61	32.41	5.71	27.67	130	273	Peak		
2483.5	48.19	-5.81	54	37.74	32.41	5.71	27.67	130	273	Average		

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Test Mode :	802.11n HT20	Temperature :	23~25°C
Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	01	Test Engineer :	Kaer Huang

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	ANTENNA POLARITY : HORIZONTAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)			
2389.56	67.49	-6.51	74	57.66	31.98	5.59	27.74	130	310	Peak		

	ANTENNA POLARITY: VERTICAL											
Freq	uency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark	
			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos		
( M	IHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)		
238	39.74	59.88	-14.12	74	50.05	31.98	5.59	27.74	160	273	Peak	
238	39.92	46.07	-7.93	54	36.19	31.98	5.62	27.72	160	273	Average	

Test Mode :	802.11n HT20	Temperature :	23~25°C
Test Band :	High	Relative Humidity :	48~52%
Test Channel :	11	Test Engineer :	Kaer Huang

	ANTENNA POLARITY : HORIZONTAL											
Frequency	Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Remark											
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)			
2483.77	71.94	-2.06	74	61.49	32.41	5.71	27.67	130	290	Peak		
2483.65	49.87	-4.13	54	39.42	32.41	5.71	27.67	130	290	Average		

	ANTENNA POLARITY: VERTICAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)			
2485.54	66.73	-7.27	74	56.28	32.41	5.71	27.67	160	262	Peak		
2483.92	46	-8	54	35.55	32.41	5.71	27.67	160	262	Average		

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Test Mode :	802.11n HT40	Temperature :	23~25°C
Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	03	Test Engineer :	Kaer Huang

	ANTENNA POLARITY : HORIZONTAL													
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark				
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos					
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)					
2389.56	71.11	-2.89	74	61.28	31.98	5.59	27.74	130	310	Peak				
2385.15	49.56	-4.44	54	39.81	31.9	5.59	27.74	130	310	Average				
2484.97	57.98	-16.02	74	47.53	32.41	5.71	27.67	130	310	Peak				
2483.92	44.49	-9.51	54	34.04	32.41	5.71	27.67	130	310	Average				

	ANTENNA POLARITY: VERTICAL													
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark				
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos					
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)					
2389.11	67.37	-6.63	74	57.54	31.98	5.59	27.74	160	272	Peak				
2388.48	46.85	-7.15	54	37.02	31.98	5.59	27.74	160	272	Average				
2488.99	55.62	-18.38	74	45.08	32.5	5.71	27.67	160	272	Peak				
2489.02	42.42	-11.58	54	31.88	32.5	5.71	27.67	160	272	Average				

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Test Mode :	802.11n HT40	Temperature :	23~25°C
Test Band :	High	Relative Humidity :	48~52%
Test Channel :	09	Test Engineer :	Kaer Huang

	ANTENNA POLARITY : HORIZONTAL													
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark				
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos					
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	( deg )					
2378.76	56.32	-17.68	74	46.57	31.9	5.59	27.74	102	309	Peak				
2388.12	43.37	-10.63	54	33.54	31.98	5.59	27.74	102	309	Average				
2486.89	71.3	-2.7	74	60.85	32.41	5.71	27.67	102	309	Peak				
2483.5	51.37	-2.63	54	40.92	32.41	5.71	27.67	102	309	Average				

	ANTENNA POLARITY : VERTICAL													
Frequency	Level	Level Over Limit Read Antenna Cable Preamp Ant								Remark				
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos					
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	( deg )					
2387.67	52.89	-21.11	74	43.06	31.98	5.59	27.74	160	270	Peak				
2388.93	41.74	-12.26	54	31.91	31.98	5.59	27.74	160	270	Average				
2486.86	66.15	-7.85	74	55.7	32.41	5.71	27.67	160	270	Peak				
2483.59	47.3	-6.7	54	36.85	32.41	5.71	27.67	160	270	Average				

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

**Note:** Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

Test Mode :	802.11b		Temperature :	23~25°C
Test Channel :	01		Relative Humidity :	48~52%
Test Engineer :	Kae	r Huang	Polarization :	Horizontal
	1.	2412 MHz is fundamer	ntal signal which can b	e ignored.
Remark :	2.	Average measuremen	t was not performed if	peak level went lower than the
		average limit.		

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	( dB )	( cm )	(deg)	
2412	98.41	-	-	88.44	32.07	5.62	27.72	103	312	Peak
2412	96.49	-	-	86.52	32.07	5.62	27.72	103	312	Average
4824	33.49	-40.51	74	48.57	33.82	8.36	57.26	110	115	Peak

Test Mode :	802.11b	Temperature :	23~25°C
Test Channel :	01	Relative Humidity :	48~52%
Test Engineer :	Kaer Huang	Polarization :	Vertical
	1. 2412 MHz is fundamenta	al signal which can be	ignored.
Remark :	2. Average measurement	was not performed if	peak level went lower than the
	average limit.		

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2412	94.2	-	-	84.23	32.07	5.62	27.72	195	256	Peak
2412	92.21	-	-	82.24	32.07	5.62	27.72	195	256	Average
4824	34.41	-39.59	74	49.49	33.82	8.36	57.26	110	115	Peak

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Test Mode :	802.11b	Temperature :	23~25°C
Test Channel :	06	Relative Humidity :	48~52%
Test Engineer :	Kaer Huang	Polarization :	Horizontal
	1. 2437 MHz is fundament	al signal which can be	ignored.
Remark :	2. Average measurement	was not performed if	peak level went lower than the
	average limit.		

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	( dB )	( cm )	(deg)	
2437	99.04	-	-	88.86	32.24	5.65	27.71	103	311	Peak
2437	96.88	-	-	86.7	32.24	5.65	27.71	103	311	Average
4874	34.52	-39.48	74	49.35	33.93	8.41	57.17	125	223	Peak
7311	37.44	-36.56	74	50.72	33.89	9.99	57.16	146	312	Peak

Test Mode :	802.11b	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2437	94.17	-	-	83.99	32.24	5.65	27.71	195	255	Peak
2437	92.08	-	-	81.9	32.24	5.65	27.71	195	255	Average
4874	33.33	-40.67	74	48.16	33.93	8.41	57.17	125	223	Peak
7311	36.66	-37.34	74	49.94	33.89	9.99	57.16	146	312	Peak

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Test Mode :	802.11b	Temperature :	23~25°C						
Test Channel :	11	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
	1. 2462 MHz is fundament	2462 MHz is fundamental signal which can be ignored.							
Remark :	2. Average measurement was not performed if peak level went lower than the								
	average limit.								

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	( dB )	( cm )	(deg)	
2462	98.74	-	-	88.42	32.33	5.68	27.69	102	309	Peak
2462	96.8	-	-	86.48	32.33	5.68	27.69	102	309	Average
4924	34.46	-39.54	74	49.03	34.05	8.46	57.08	178	139	Peak
7386	36.02	-37.98	74	49.11	33.94	10.02	57.05	150	220	Peak

Test Mode :	802.11b	Temperature :	23~25°C					
Test Channel :	11	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
	1. 2462 MHz is fundame	2462 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	(cm)	(deg)	
2462	94.85	-	-	84.53	32.33	5.68	27.69	105	265	Peak
2462	92.82	-	-	82.5	32.33	5.68	27.69	105	265	Average
4924	34.07	-39.93	74	48.64	34.05	8.46	57.08	178	139	Peak
7386	35.07	-38.93	74	48.16	33.94	10.02	57.05	150	220	Peak

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Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	01	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Horizontal					
	1. 2412 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement	was not performed if	peak level went lower than the					
	average limit.	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	( dB )	(dB)	( cm )	(deg)	
2412	103.36	-	-	93.39	32.07	5.62	27.72	130	310	Peak
2412	94.79	-	-	84.82	32.07	5.62	27.72	130	310	Average
4824	35.12	-38.88	74	50.2	33.82	8.36	57.26	110	115	Peak

Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	01	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
	1. 2412 MHz is fundament	2412 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant		Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	(cm)	(deg)	
2412	98.71	-	-	88.74	32.07	5.62	27.72	160	272	Peak
2412	90.45	-	-	80.48	32.07	5.62	27.72	160	272	Average
4824	33.57	-40.43	74	48.65	33.82	8.36	57.26	110	115	Peak

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Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Horizontal					
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2437	103.26	-	-	93.08	32.24	5.65	27.71	130	308	Peak
2437	95.02	-	-	84.84	32.24	5.65	27.71	130	308	Average
4874	34.32	-39.68	74	49.15	33.93	8.41	57.17	125	223	Peak
7311	40.76	-33.24	74	54.04	33.89	9.99	57.16	146	312	Peak

Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

ĺ	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
ı			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
ı	(MHz)	( dBµV/m )	(dB)	( $dB\mu V/m$ )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
	2437	99.33	-	-	89.15	32.24	5.65	27.71	160	267	Peak
	2437	90.6	-	-	80.42	32.24	5.65	27.71	160	267	Average
	4874	34.07	-39.93	74	48.9	33.93	8.41	57.17	125	223	Peak
	7311	37.28	-36.72	74	50.56	33.89	9.99	57.16	146	312	Peak

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Test Mode :	802.11g	Temperature :	23~25°C				
Test Channel :	11	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Horizontal				
	1. 2462 MHz is fundament	2462 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	( dBµV/m )	Limit (dB)	Line ( dBµV/m )	Level (dBµV)	Factor ( dB )	Loss (dB)	Factor (dB)	Pos (cm)	Pos ( deg )	
32.91	22.6	-17.4	40	34.44	17.3	0.79	29.93	200	0	Peak
156.1	23.82	-19.68	43.5	43.02	9.22	1.52	29.94	-	-	Peak
259.89	22.55	-23.45	46	37.99	12.6	1.89	29.93	-	-	Peak
406.36	20.26	-25.74	46	31.64	16.22	2.32	29.92	-	-	Peak
623.64	22.18	-23.82	46	30.68	18.6	2.82	29.92	-	-	Peak
872.93	24.33	-21.67	46	30.23	20.74	3.29	29.93	-	-	Peak
2462	103.32	-	-	93	32.33	5.68	27.69	190	310	Peak
2462	94.9	-	-	84.58	32.33	5.68	27.69	190	310	Average
4924	32.02	-41.98	74	46.59	34.05	8.46	57.08	178	139	Peak
7386	37.33	-36.67	74	50.42	33.94	10.02	57.05	150	220	Peak

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Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	11	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
	1. 2462 MHz is fundament	2462 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )		( dB )	( dB )	( dB )	( cm )	( deg )	
34.85	35.01	-4.99	40	48.03	16.1	0.81	29.93	100	0	Peak
103.72	23.98	-19.52	43.5	41.12	11.52	1.28	29.94	-	-	Peak
259.89	16.96	-29.04	46	32.4	12.6	1.89	29.93	-	-	Peak
500.45	21.18	-24.82	46	31.57	17	2.53	29.92	-	-	Peak
773.99	24.23	-21.77	46	31.25	19.8	3.11	29.93	-	-	Peak
910.76	24.42	-21.58	46	29.9	21.11	3.35	29.94	-	-	Peak
2462	99.67	-	-	89.35	32.33	5.68	27.69	130	273	Peak
2462	91.17	-	-	80.85	32.33	5.68	27.69	130	273	Average
4924	33.38	-40.62	74	47.95	34.05	8.46	57.08	178	139	Peak
7386	34.45	-39.55	74	47.54	33.94	10.02	57.05	150	220	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C				
Test Channel :	01	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Horizontal				
	1. 2412 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2412	102.38	-	-	92.41	32.07	5.62	27.72	130	310	Peak
2412	93.86	-	-	83.89	32.07	5.62	27.72	130	310	Average
4824	35.3	-38.7	74	50.38	33.82	8.36	57.26	110	115	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C				
Test Channel :	01	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Vertical				
	1. 2412 MHz is fundament	2412 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2412	98.5	-	-	88.53	32.07	5.62	27.72	160	273	Peak
2412	89.31	-	-	79.34	32.07	5.62	27.72	160	273	Average
4824	33.9	-40.1	74	48.98	33.82	8.36	57.26	110	115	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C				
Test Channel :	06	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Horizontal				
	1. 2437 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	(dB)	( cm )	(deg)	
2437	103.32	-	-	93.14	32.24	5.65	27.71	160	310	Peak
2437	94.75	-	-	84.57	32.24	5.65	27.71	160	310	Average
4874	35.51	-38.49	74	50.34	33.93	8.41	57.17	125	223	Peak
7311	36.78	-37.22	74	50.06	33.89	9.99	57.16	146	312	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2437	98.64	-	-	88.46	32.24	5.65	27.71	160	272	Peak
2437	90.22	-	-	80.04	32.24	5.65	27.71	160	272	Average
4874	33.39	-40.61	74	48.22	33.93	8.41	57.17	125	223	Peak
7311	36.02	-37.98	74	49.3	33.89	9.99	57.16	146	312	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C				
Test Channel :	11	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Horizontal				
	1. 2462 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	(dB)	( cm )	(deg)	
2462	102.94	-	-	92.62	32.33	5.68	27.69	130	290	Peak
2462	94.27	-	-	83.95	32.33	5.68	27.69	130	290	Average
4924	33.26	-40.74	74	47.83	34.05	8.46	57.08	178	139	Peak
7386	36.59	-37.41	74	49.68	33.94	10.02	57.05	150	220	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C					
Test Channel :	11	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
	1. 2462 MHz is fundament	2462 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	$(dB\mu V/m)$	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2462	98.72	-	-	88.4	32.33	5.68	27.69	160	262	Peak
2462	90.19	-	-	79.87	32.33	5.68	27.69	160	262	Average
4924	32.93	-41.07	74	47.5	34.05	8.46	57.08	178	139	Peak
7386	34.22	-39.78	74	47.31	33.94	10.02	57.05	150	220	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C				
Test Channel :	03	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Horizontal				
	1. 2422 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	( dB )	( cm )	(deg)	
2422	98.76	-	-	88.66	32.16	5.65	27.71	130	310	Peak
2422	90.41	-	-	80.31	32.16	5.65	27.71	130	310	Average
4844	33.95	-40.05	74	48.94	33.86	8.38	57.23	178	160	Peak
7266	35	-39	74	48.35	33.87	9.98	57.2	177	245	Peak

Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	03	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
	1. 2422 MHz is fundament	2422 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	(cm)	( deg )	
2422	94.61	-	-	84.51	32.16	5.65	27.71	160	272	Peak
2422	85.8	-	-	75.7	32.16	5.65	27.71	160	272	Average
4844	34.4	-39.6	74	49.39	33.86	8.38	57.23	178	160	Peak
7266	35.17	-38.83	74	48.52	33.87	9.98	57.2	177	245	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C				
Test Channel :	06	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Horizontal				
	1. 2437 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	( dB )	( cm )	(deg)	
2437	98.99	-	-	88.81	32.24	5.65	27.71	131	310	Peak
2437	90.56	-	-	80.38	32.24	5.65	27.71	131	310	Average
4874	33.93	-40.07	74	48.76	33.93	8.41	57.17	158	318	Peak
7311	35.98	-38.02	74	49.26	33.89	9.99	57.16	148	265	Peak

Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C			
Test Channel :	06	Relative Humidity :	48~52%			
Test Engineer :	Kaer Huang	Polarization :	Vertical			
	1. 2437 MHz is fundament	. 2437 MHz is fundamental signal which can be ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the					
	average limit.					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2437	93.88	-	-	83.7	32.24	5.65	27.71	160	260	Peak
2437	85.29	-	-	75.11	32.24	5.65	27.71	160	260	Average
4874	33.81	-40.19	74	48.64	33.93	8.41	57.17	158	318	Peak
7311	34.9	-39.1	74	48.18	33.89	9.99	57.16	148	265	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C		
Test Channel :	09	Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang	Polarization :	Horizontal		
	1. 2452 MHz is fundament	al signal which can be	ignored.		
Remark :	2. Average measurement was not performed if peak level went lower than th				
	average limit.				

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	( dB )	( cm )	(deg)	
2452	98.55	-	-	88.32	32.24	5.68	27.69	102	309	Peak
2452	89.83	-	-	79.6	32.24	5.68	27.69	102	309	Average
4904	33.32	-40.68	74	47.98	34.01	8.44	57.11	170	215	Peak
7356	35.28	-38.72	74	48.45	33.92	10.01	57.1	163	28	Peak

Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C		
Test Channel :	09	Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang	Polarization :	Vertical		
	1. 2452 MHz is fundament	al signal which can be	ignored.		
Remark :	2. Average measurement was not performed if peak level went lower than the				
	average limit.				

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	( dBµV/m )	Limit (dB)	Line ( dBµV/m )	Level (dBµV)	Factor (dB)	Loss (dB)	Factor (dB)	Pos (cm)	Pos ( deg )	
2452	94.69	-	-	84.46	32.24	5.68	27.69	160	270	Peak
2452	86.09	-	-	75.86	32.24	5.68	27.69	160	270	Average
4904	33.17	-40.83	74	47.83	34.01	8.44	57.11	170	215	Peak
7356	35.52	-38.48	74	48.69	33.92	10.01	57.1	163	28	Peak

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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

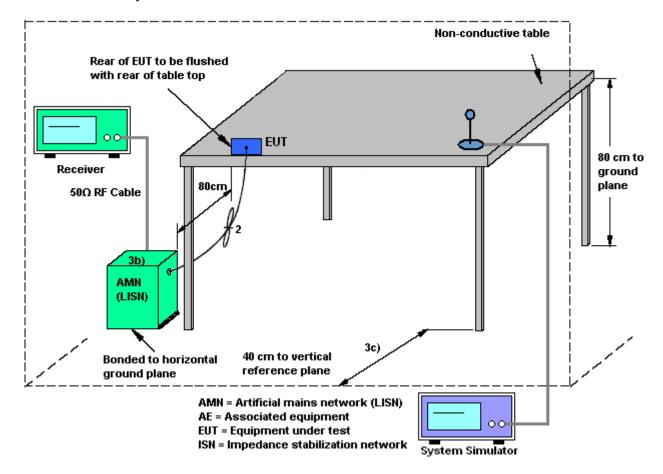
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- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (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 with Maximum Hold Mode.



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#### 3.6.4 Test Setup

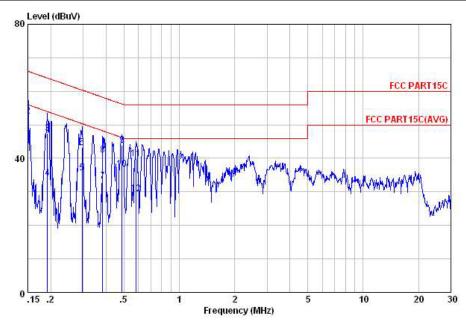


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#### 3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23℃			
Test Engineer :	Eligah Wang	Relative Humidity :	35~37%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			
Eurotion Type	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter)					
Function Type :	+ Earphone					



Site : C001-KS Condition: FCC PART15C LISN-L20130306 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
100	MHz	dBu₹	dB	dBuV	dBuV	dB	dB	\$.
1	0.15	40.57	-15.43	56.00	27.90	1.95	10.72	Average
2	0.15	52.57	-13.43	66.00	39.90	1.95	10.72	OP
3	0.19	47.50	-16.48	63.98	35.81	1.10	10.59	QP
2 3 4 5 6 7 8 9	0.19	34.20	-19.78	53.98	22.51	1.10	10.59	Average
5	0.30	35.71	-14.66	50.37	24.60	0.71		Average
6	0.30	43.31	-17.06	60.37	32.20	0.71	10.40	QP
7	0.38	33.24	-14.97	48.21	22.60	0.35	10.29	Average
8	0.38	41.04	-17.17	58.21	30.40	0.35	10.29	QP
9	0.49	43.87	-12.32	56.19	33.39	0.21	10.27	OP
10	0.49	36.87	-9.32	46.19	26.39	0.21	10.27	Average
11	0.58	39.85	-16.15	56.00	29.40	0.20	10.25	
12	0.58	29.35	-16.65	46.00	18.90	0.20	10.25	Average

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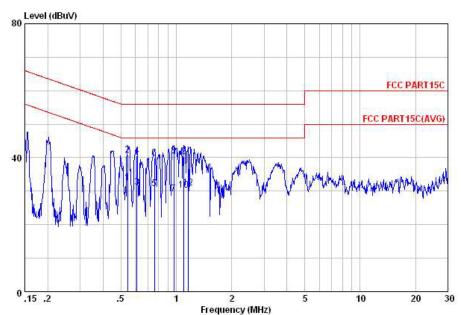


Test Mode: Mode 1 Temperature: 21~23°C

Test Engineer: Eligah Wang Relative Humidity: 35~37%

Test Voltage: 120Vac / 60Hz Phase: Neutral

Function Type: GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone



Site : COO1-KS

Condition: FCC PART15C LISN-N20130306 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
8	MHz	dBuV	dB	dBu₹	dBuV	- dB	dB	
1	0.54	32.63	-13.37	46.00	22.10	0.28	10.25	Average
2	0.54	40.73	-15.27	56.00	30.20	0.28	10.25	
2 3 4 5 6 7	0.61	31.27	-14.73	46.00	20.79	0.24	10.24	Average
4	0.61	40.57	-15.43	56.00	30.09	0.24	10.24	QP
5	0.76	30.78	-15.22	46.00	20.40	0.18	10.20	Average
6	0.76	39.78	-16.22	56.00	29.40	0.18	10.20	QP
7	0.97	29.09	-16.91	46.00	18.80	0.11	10.18	Average
8 9	0.97	40.49	-15.51	56.00	30.20	0.11	10.18	QP
9	1.10	40.38	-15.62	56.00	30.10	0.10	10.18	QP
10	1.10	30.38	-15.62	46.00	20.10	0.10	10.18	Average
11	1.17	40.48	-15.52	56.00	30.20	0.10	10.18	QP
12	1.17	30.88	-15.12	46.00	20.60	0.10	10.18	Average

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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	Mar. 03, 2014	Apr. 30, 2014~ May 09, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm~-20dBm	Mar. 03, 2014	Apr. 30, 2014~ May 09, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	0.3GHz~40GHz	Mar. 03, 2014	Apr. 30, 2014~ May 09, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	May 05, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Signal Analyzer	R&S	FSV40	101078	10Hz~40GHz	Jun. 17, 2013	May 05, 2014	Jun. 16, 2014	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 29, 2013	May 05, 2014	May 28, 2014	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	May 05, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	May 05, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jan. 27, 2014	May 05, 2014	Jan. 26, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	May 05, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Agilent	83017A	MY39501302	3Hz~26.5GHz	Mar. 03, 2014	May 05, 2014	Mar. 02, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001985	100Vac~250Vac	Mar. 25, 2014	May 05, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	May 05, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	May 05, 2014	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 23, 2013	Apr. 29, 2014	May 22, 2014	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Dec. 10, 2013	Apr. 29, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Dec. 10, 2013	Apr. 29, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Nov. 12, 2013	Apr. 29, 2014	Nov. 11, 2014	Conduction (CO01-KS)

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#### **Uncertainty of Evaluation** 5

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

Measuring Uncertainty for a Level of	2.24
Confidence of 95% (U = 2Uc(y))	2.31

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

Measuring Uncertainty for a Level of	3.90
Confidence of 95% (U = 2Uc(y))	3.90

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