

FCC RF Test Report

APPLICANT : CT Asia EQUIPMENT : Tablet PC

BRAND NAME : BLU

MODEL NAME : Life View Tab

FCC ID : YHLBLULIFEVIEWT

STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jan. 18, 2014 and testing was completed on Feb. 04, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant 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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Testing Laboratory 2353



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR411801B	Rev. 01	Initial issue of report	Mar. 05, 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	3.3 15.247(e) Power Spectral D		≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	- ≤ 20dBc	Pass	-
3.4	13.247(d)	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 3.11 dB at 2484.670 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.11 dB at 0.640 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

1.2 Manufacturer

Tinno Mobile Technology Corp.

4/F., H-3 Building, OCT Eastern industrial Park, No.1 XiangShan East Road., Nan Shan District, Shenzhen, P.R. China

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1.3 Feature of Equipment Under Test

Product Feature						
Equipment	Tablet PC					
Brand Name	BLU					
Model Name	Life View Tab					
FCC ID	YHLBLULIFEVIEWT					
	GSM/GPRS/EGPRS/WCDMA/HSPA/					
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40/					
	Bluetooth v3.0 + EDR					
HW Version	V1.0					
SW Version	P5003A_PP_00_07					
EUT Stage	Production Unit					

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 : 15.87 dBm (0.0386 W)					
Maximum (Peak) Output Power to	802.11g : 20.24 dBm (0.1057 W)					
Antenna	802.11n HT20 : 20.30 dBm (0.1072 W)					
	802.11n HT40 : 19.77 dBm (0.0948 W)					
Antenna Type	PIFA Antenna with gain 0 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 Site

Test Site		SPORTON INT	SPORTON INTERNATIONAL (SHENZHEN) INC.									
T4	;	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse,										
Test Location	Site	Nanshan District, Shenzhen, Guangdong, P.R.C.										
Location		TEL: +86-755-	TEL: +86-755- 3320-2398									
o:. N			Sporton Site No	D.	FCC Registration No.							
Test Site N	0.	TH01-SZ	03CH01-SZ	CO01-SZ	831040							

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

1.7 Applied 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 2492 5 MH=	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 Power (dBm)							
Channel	Frequency	DSSS Data Rate							
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps				
CH 01	2412 MHz	14.62	14.61	14.39	14.43				
CH 06	2437 MHz	15.11	15.10	14.88	14.92				
CH 11	2462 MHz	<mark>15.87</mark>	15.86	15.64	15.68				

	2.4GHz 802.11g RF Power (dBm)									
Channel	Frequency	OFDM Data Rate								
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps	
CH 01	2412 MHz	19.09	19.07	19.05	19.06	19.02	18.99	18.97	19.03	
CH 06	2437 MHz	19.42	19.40	19.38	19.39	19.35	19.32	19.30	19.36	
CH 11	2462 MHz	<mark>20.24</mark>	20.22	20.20	20.21	20.17	20.14	20.12	20.18	

		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	19.13	19.02	19.05	19.07	19.04	19.06	19.07	19.08		
CH 06	2437 MHz	19.49	19.38	19.41	19.43	19.40	19.42	19.43	19.44		
CH 11	2462 MHz	20.30	20.19	20.22	20.24	20.21	20.23	20.24	20.25		

	2.4GHz 802.11n HT40 RF Power (dBm)											
Channel	Frequency		OFDM Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7			
CH 03	2422 MHz	19.04	18.97	18.93	18.96	18.94	18.90	18.92	18.93			
CH 06	2437 MHz	19.29	19.22	19.18	19.21	19.19	19.15	19.17	19.18			
CH 09	2452 MHz	<mark>19.77</mark>	19.70	19.66	19.69	19.67	19.63	19.65	19.66			

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2.3 Test Mode

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

		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	802.11n HT20	MCS0	1/6/11
	Density	802.11n HT40	MCS0	3/6/9
		802.11b	1 Mbps	1/6/11
	Outrout Bassas	802.11g	6 Mbps	1/6/11
O and deceted	Output Power	802.11n HT20	MCS0	1/6/11
Conducted TCs		802.11n HT40	MCS0	3/6/9
105		802.11b	1 Mbps	1/11
	Conducted Band	802.11g	6 Mbps	1/11
	Edge	802.11n HT20	MCS0	1/11
		802.11n HT40	MCS0	3/9
		802.11b	1 Mbps	1/6/11
	Conducted	802.11g	6 Mbps	1/6/11
	Spurious Emission	802.11n HT20	MCS0	1/6/11
		802.11n HT40	MCS0	3/6/9
		802.11b	1 Mbps	1/11
	Radiated Band	802.11g	6 Mbps	1/11
	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 Emission	Mode 1 : GPRS850 I	dle + Bluetooth Link + WLAN I	ink + USB Cable (Charging fr	rom Adapter) + Earphone

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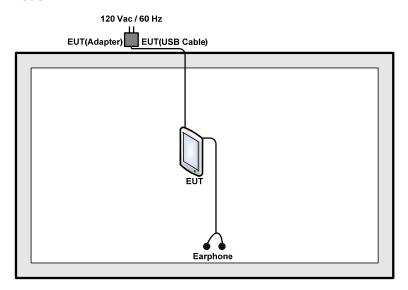
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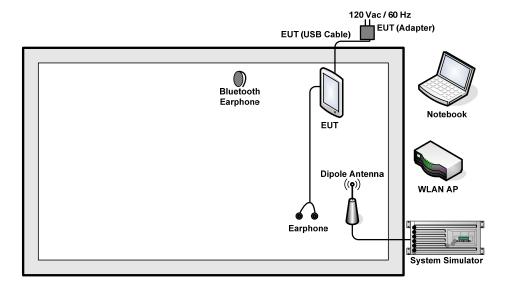


2.4 Connection Diagram of Test System

<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	CMW500	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	N/A
3.	WLAN AP	D-Link	DIR-815	KA2DIR815A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Vostro 2420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
6.	Earphone	Apple	N/A	N/A	Unshielded, 1.2m	N/A
7.	Earphone	INTOPIC	Jazz-278	N/A	Unshielded, 2.2m	N/A

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.

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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 7.5 dB and 10dB attenuator.

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$

= 7.5 + 10 = 17.5 (dB)

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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.

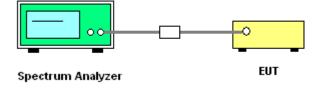
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 1. 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.
- 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. Measure and record the results in the test report.

3.1.4 Test Setup



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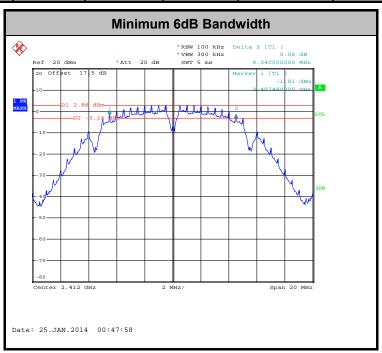
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3.1.5 Test Result of 6dB Bandwidth

Test Band :	2.4GHz	Temperature :	24~26℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	9.04	0.5	Pass
11b	1Mbps	1	6	2437	9.08	0.5	Pass
11b	1Mbps	1	11	2462	9.04	0.5	Pass
11g	6Mbps	1	1	2412	16.40	0.5	Pass
11g	6Mbps	1	6	2437	16.48	0.5	Pass
11g	6Mbps	1	11	2462	16.40	0.5	Pass
HT20	MCS0	1	1	2412	17.56	0.5	Pass
HT20	MCS0	1	6	2437	17.60	0.5	Pass
HT20	MCS0	1	11	2462	17.60	0.5	Pass
HT40	MCS0	1	3	2422	35.52	0.5	Pass
HT40	MCS0	1	6	2437	35.84	0.5	Pass
HT40	MCS0	1	9	2452	35.44	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 :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	14.62	30	0.00	Pass
11b	1Mbps	1	6	2437	15.11	30	0.00	Pass
11b	1Mbps	1	11	2462	15.87	30	0.00	Pass
11g	6Mbps	1	1	2412	19.09	30	0.00	Pass
11g	6Mbps	1	6	2437	19.42	30	0.00	Pass
11g	6Mbps	1	11	2462	20.24	30	0.00	Pass
HT20	MCS0	1	1	2412	19.13	30	0.00	Pass
HT20	MCS0	1	6	2437	19.49	30	0.00	Pass
HT20	MCS0	1	11	2462	20.30	30	0.00	Pass
HT40	MCS0	1	3	2422	19.04	30	0.00	Pass
HT40	MCS0	1	6	2437	19.29	30	0.00	Pass
HT40	MCS0	1	9	2452	19.77	30	0.00	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 :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	0.05	11.40	30	0.00	Pass
11b	1Mbps	1	6	2437	0.05	11.86	30	0.00	Pass
11b	1Mbps	1	11	2462	0.05	12.63	30	0.00	Pass
11g	6Mbps	1	1	2412	0.30	9.48	30	0.00	Pass
11g	6Mbps	1	6	2437	0.30	9.97	30	0.00	Pass
11g	6Mbps	1	11	2462	0.30	10.66	30	0.00	Pass
HT20	MCS0	1	1	2412	0.34	9.46	30	0.00	Pass
HT20	MCS0	1	6	2437	0.34	10.07	30	0.00	Pass
HT20	MCS0	1	11	2462	0.34	10.74	30	0.00	Pass
HT40	MCS0	1	3	2422	0.61	9.48	30	0.00	Pass
HT40	MCS0	1	6	2437	0.61	9.66	30	0.00	Pass
HT40	MCS0	1	9	2452	0.61	10.29	30	0.00	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.

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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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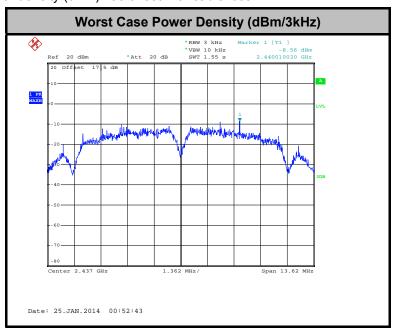


3.3.5 Test Result of Power Spectral Density

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

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Peak Power Density (dBm/3kHz)	Max. Limits (dBm/3kHz)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	-11.81	8	0.00	Pass
11b	1Mbps	1	6	2437	-8.56	8	0.00	Pass
11b	1Mbps	1	11	2462	-9.78	8	0.00	Pass
11g	6Mbps	1	1	2412	-15.31	8	0.00	Pass
11g	6Mbps	1	6	2437	-14.57	8	0.00	Pass
11g	6Mbps	1	11	2462	-14.77	8	0.00	Pass
HT20	MCS0	1	1	2412	-14.98	8	0.00	Pass
HT20	MCS0	1	6	2437	-14.43	8	0.00	Pass
HT20	MCS0	1	11	2462	-14.66	8	0.00	Pass
HT40	MCS0	1	3	2422	-18.35	8	0.00	Pass
HT40	MCS0	1	6	2437	-18.87	8	0.00	Pass
HT40	MCS0	1	9	2452	-17.98	8	0.00	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

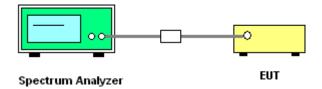
The measuring equipment is listed in the section 4 of this test report.

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.
- 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.
- 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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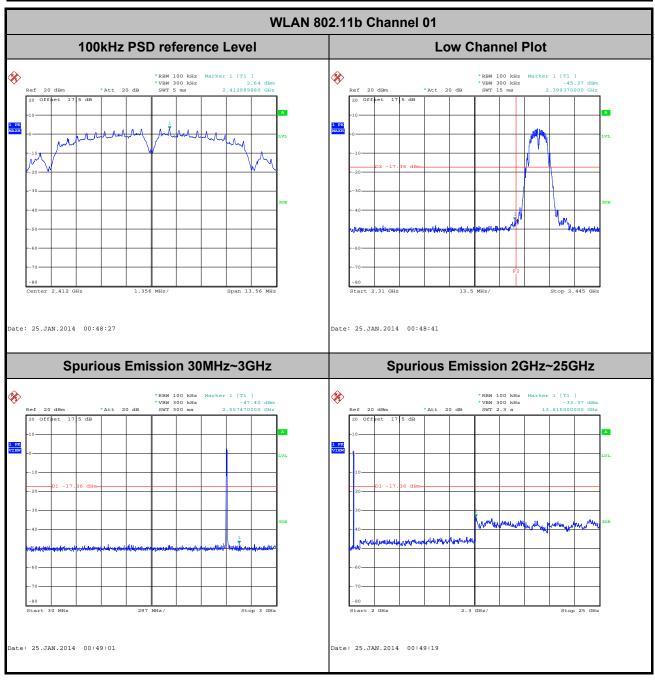
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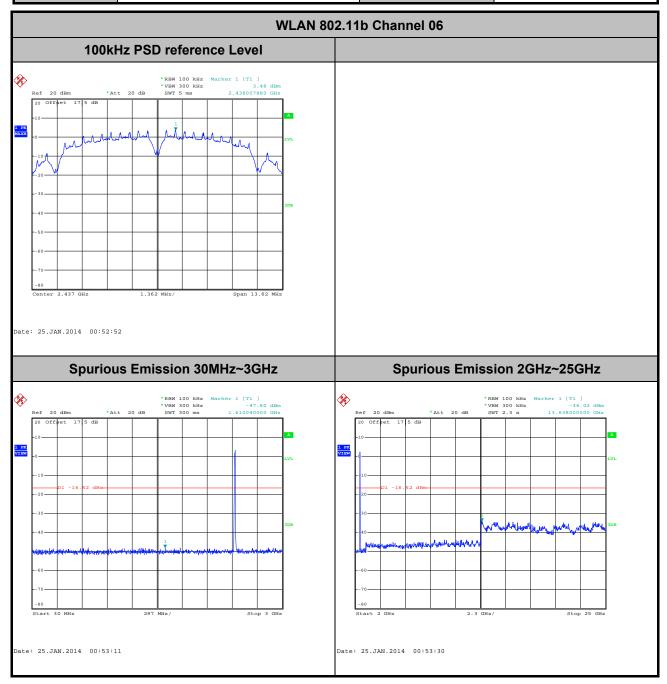
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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



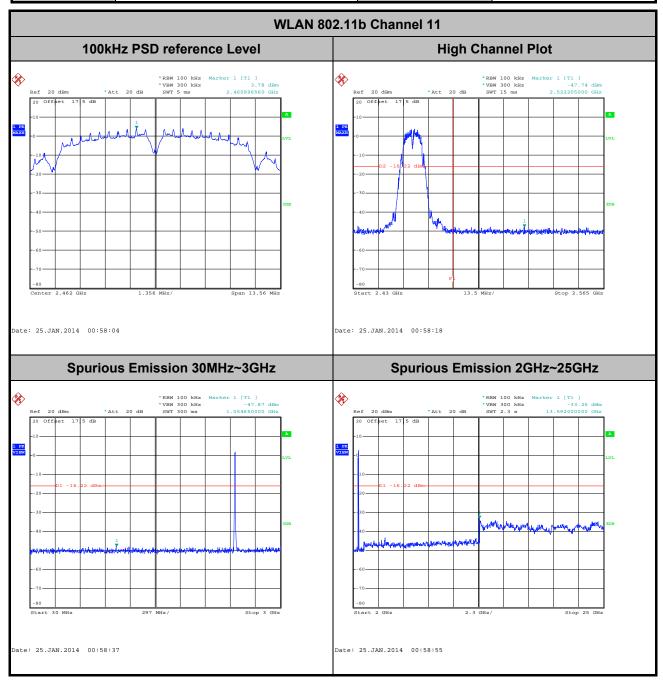
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang

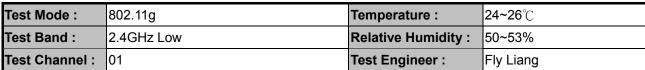


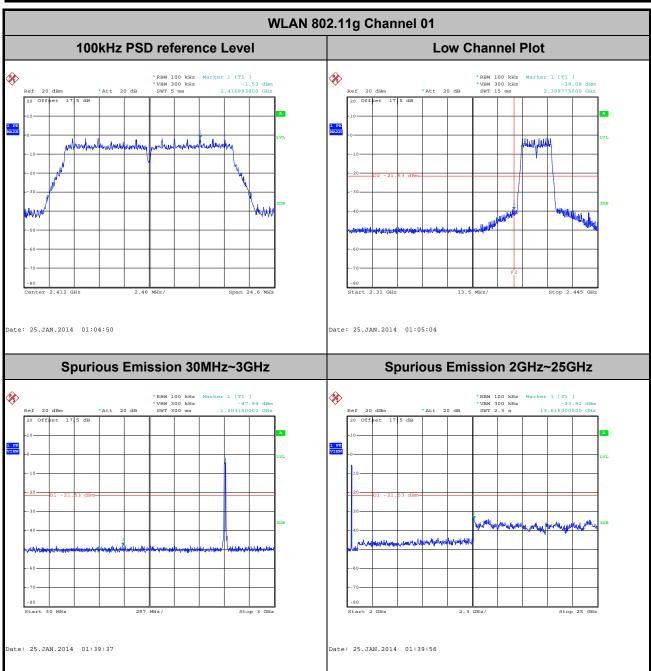
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Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Fly Liang



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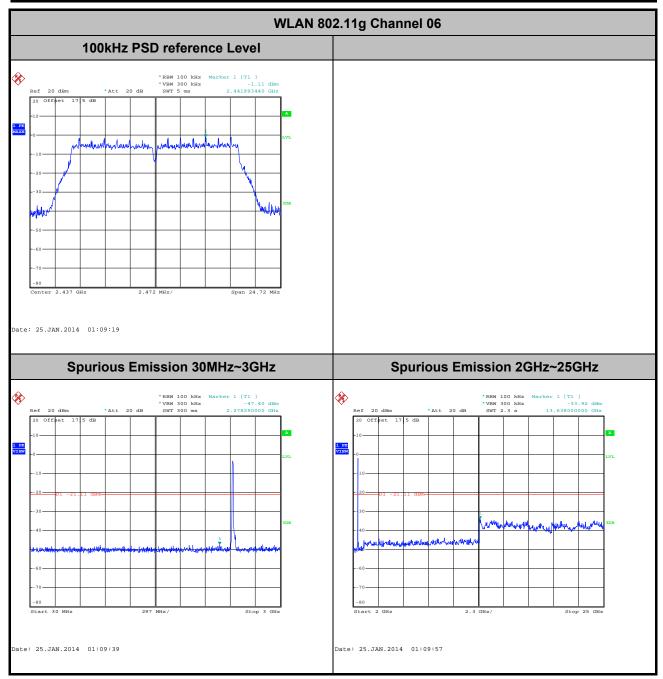
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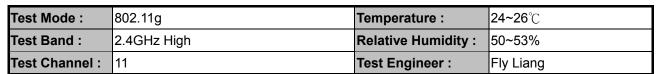
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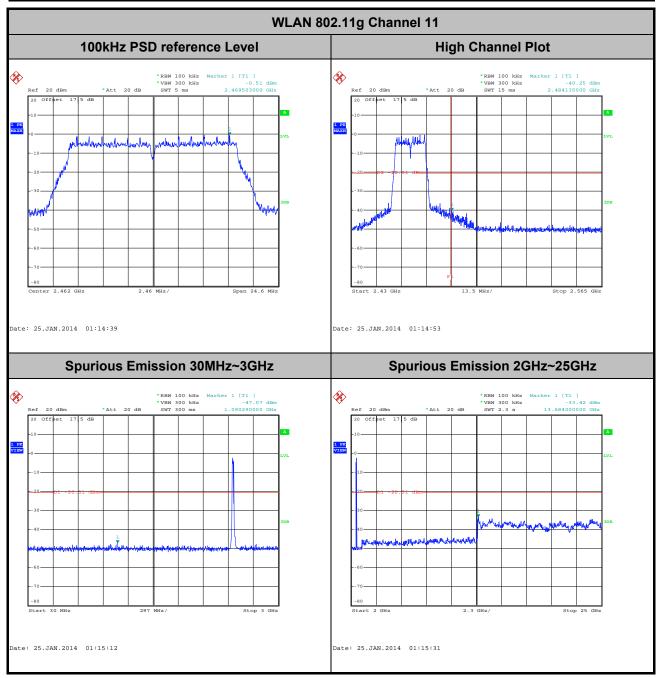
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Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang

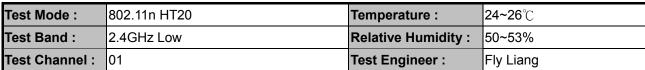


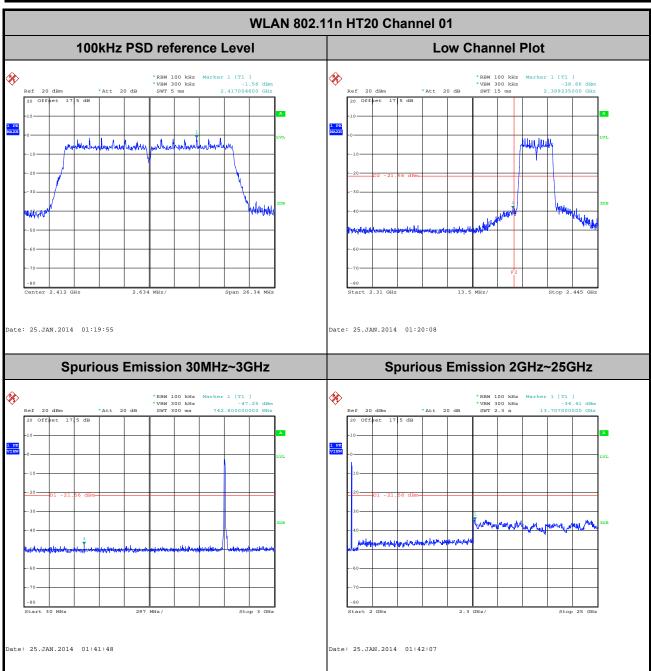
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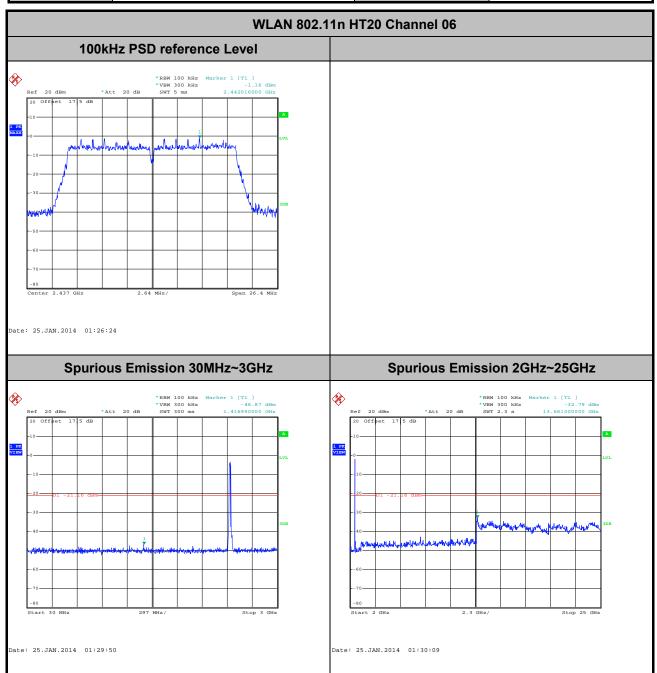
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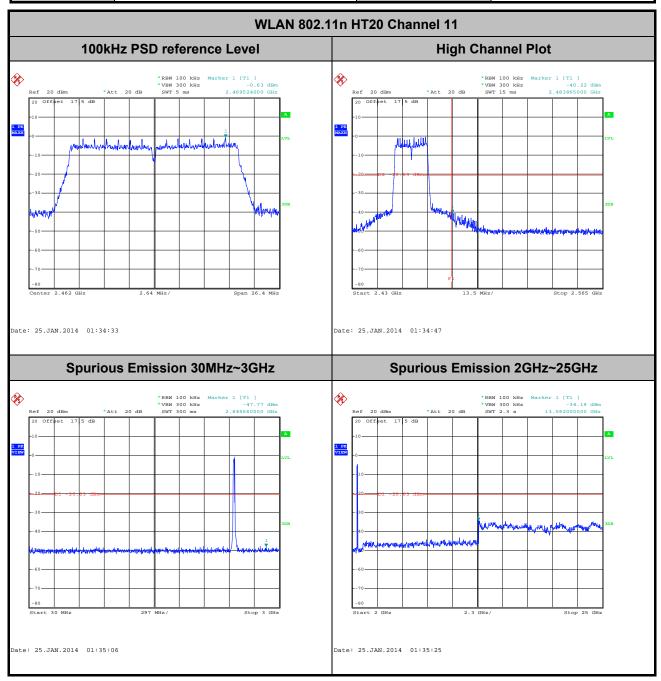
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Test Mode :	802.11n HT20	Temperature :	24~26 ℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



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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 :	Fly Liang



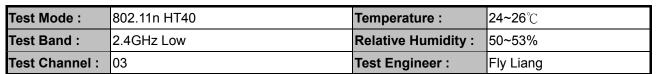
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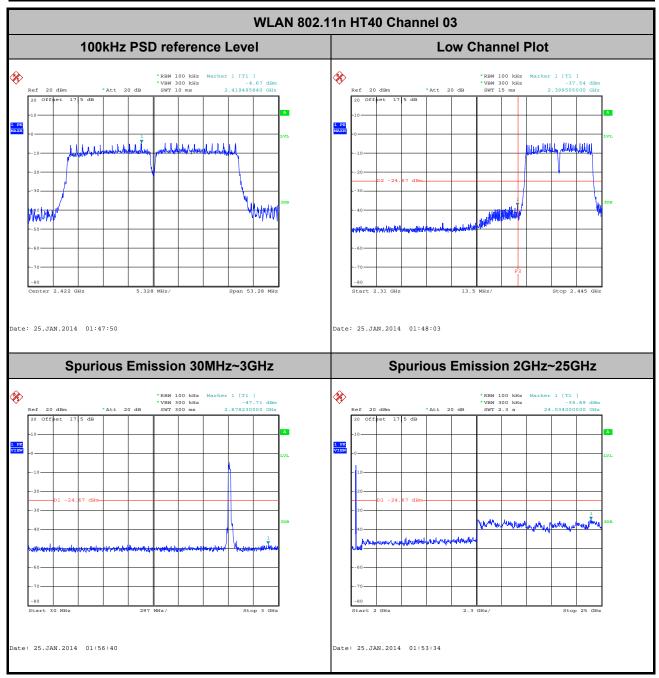
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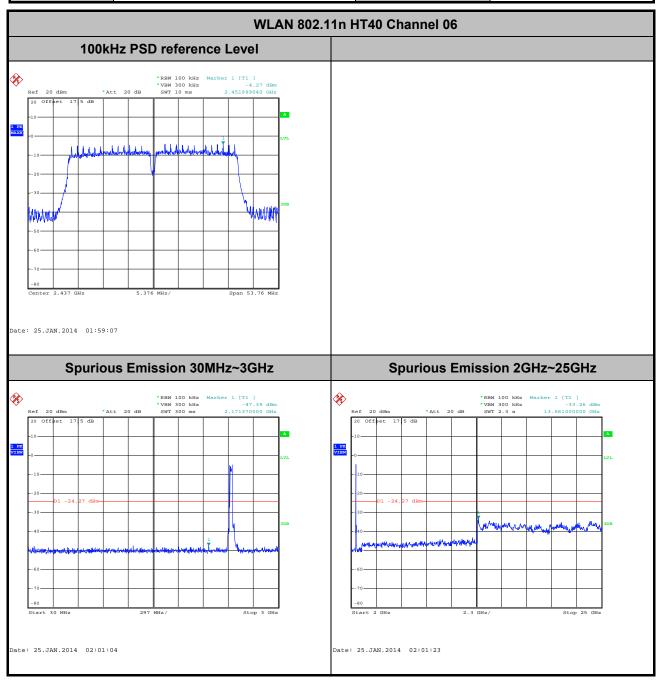
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Fly Liang



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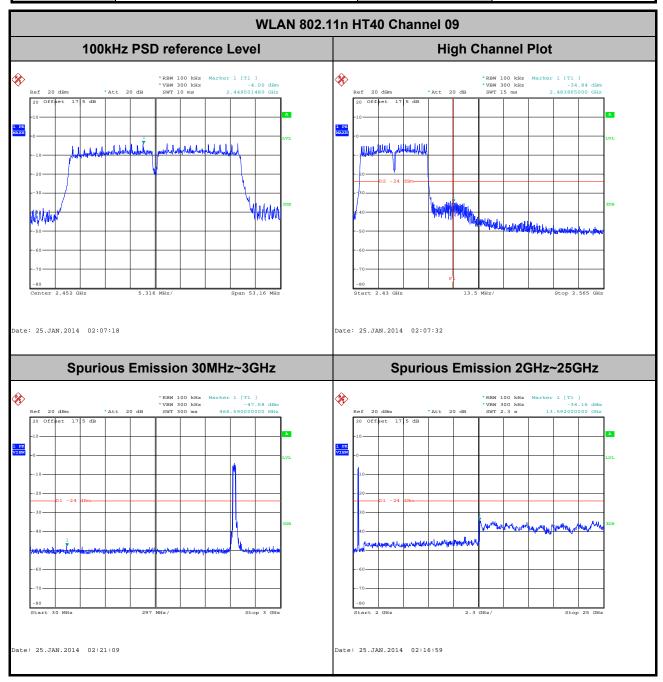
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	09	Test Engineer :	Fly Liang



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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.

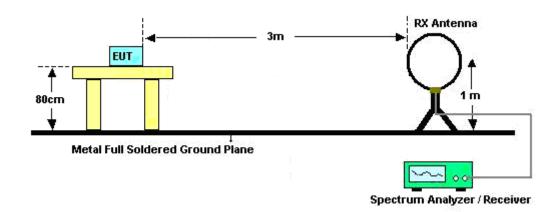
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	98.82	-	-	10Hz
802.11g	93.31	1.39	0.72	1Hz
2.4GHz 802.11n HT20	92.37	1.31	0.76	1Hz
2.4GHz 802.11n HT40	86.97	0.65	1.53	3Hz

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3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

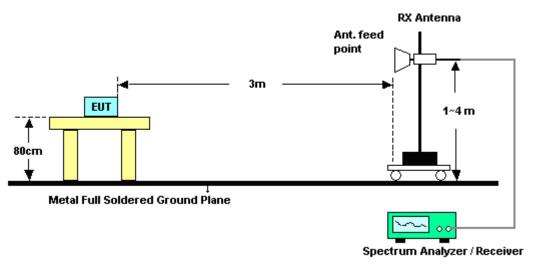


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For radiated emissions above 1GHz



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 :	Gavin Zhang

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	ANTENNA POLARITY : HORIZONTAL										
Frequency											
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos		
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)		
2389.47	49.01	-24.99	74	42.03	31.98	5.59	30.59	107	33	Peak	
2387.04	37.45	-16.55	54	30.47	31.98	5.59	30.59	107	33	Average	

	ANTENNA POLARITY : VERTICAL											
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)			
2387.94	49.37	-24.63	74	42.39	31.98	5.59	30.59	112	182	Peak		
2386.41	37.3	-16.7	54	30.32	31.98	5.59	30.59	112	182	Average		

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

	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)			
2483.65	49.98	-24.02	74	42.33	32.41	5.71	30.47	136	8	Peak		
2483.5	39.7	-14.3	54	32.05	32.41	5.71	30.47	136	8	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)			
2484.91	59.3	-14.7	74	51.65	32.41	5.71	30.47	100	294	Peak		
2483.5	39.97	-14.03	54	32.32	32.41	5.71	30.47	100	294	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 :	Gavin Zhang

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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)			
2389.92	55.26	-18.74	74	48.22	31.98	5.62	30.56	131	222	Peak		
2389.83	41.44	-12.56	54	34.4	31.98	5.62	30.56	131	222	Average		

	ANTENNA POLARITY : VERTICAL											
Frequency	equency 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)			
2389.74	53.54	-20.46	74	46.56	31.98	5.59	30.59	100	105	Peak		
2389.92	40.37	-13.63	54	33.33	31.98	5.62	30.56	100	105	Average		

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

	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)			
2484.67	70.89	-3.11	74	63.24	32.41	5.71	30.47	103	231	Peak		
2483.5	49.07	-4.93	54	41.42	32.41	5.71	30.47	103	231	Average		

	ANTENNA POLARITY : VERTICAL											
Frequency												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2485.48	65.33	-8.67	74	57.68	32.41	5.71	30.47	100	104	Peak		
2485.15	44.27	-9.73	54	36.62	32.41	5.71	30.47	100	104	Average		

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Test Band :	Low	Relative Humidity :	48~52%
Test Channel :	01	Test Engineer :	Gavin Zhang

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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	63.45	-10.55	74	56.41	31.98	5.62	30.56	104	224	Peak		
								-				

	ANTENNA POLARITY: VERTICAL											
Frequency	Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Rema											
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2389.92	56.17	-17.83	74	49.13	31.98	5.62	30.56	100	105	Peak		
2389.83	41.78	-12.22	54	34.74	31.98	5.62	30.56	100	105	Average		

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

	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)			
2484.16	70.16	-3.84	74	62.51	32.41	5.71	30.47	131	208	Peak		
2484.19	48.55	-5.45	54	40.9	32.41	5.71	30.47	131	208	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)			
2486.32	69.04	-4.96	74	61.39	32.41	5.71	30.47	123	21	Peak		
2485.21	48.05	-5.95	54	40.4	32.41	5.71	30.47	123	21	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 :	Gavin Zhang

	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)			
2389.74	66.26	-7.74	74	59.28	31.98	5.59	30.59	129	233	Peak		
2388.21	45.71	-8.29	54	38.73	31.98	5.59	30.59	129	233	Average		
2495.08	56.93	-17.07	74	49.13	32.5	5.74	30.44	129	233	Peak		
2484.16	40.45	-13.55	54	32.8	32.41	5.71	30.47	129	233	Average		

	ANTENNA POLARITY: VERTICAL											
Frequency												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2389.83	64.68	-9.32	74	57.64	31.98	5.62	30.56	100	105	Peak		
2388.21	44.41	-9.59	54	37.43	31.98	5.59	30.59	100	105	Average		
2495.86	55.39	-18.61	74	47.59	32.5	5.74	30.44	100	105	Peak		
2494.18	39.77	-14.23	54	31.97	32.5	5.74	30.44	100	105	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 :	Gavin Zhang

	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)			
2388.75	55.41	-18.59	74	48.43	31.98	5.59	30.59	104	233	Peak		
2388.84	40.51	-13.49	54	33.53	31.98	5.59	30.59	104	233	Average		
2484.34	70.82	-3.18	74	63.17	32.41	5.71	30.47	104	233	Peak		
2485.75	49.15	-4.85	54	41.5	32.41	5.71	30.47	104	233	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)			
2375.97	54.49	-19.51	74	47.59	31.9	5.59	30.59	100	104	Peak		
2388.21	39.23	-14.77	54	32.25	31.98	5.59	30.59	100	104	Average		
2486.44	67.74	-6.26	74	60.09	32.41	5.71	30.47	100	104	Peak		
2485.51	45.99	-8.01	54	38.34	32.41	5.71	30.47	100	104	Average		

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3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th 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 :	Gav	in Zhang	Polarization :	Horizontal				
	1.	2412 MHz is fundamer	ntal signal which can b	e 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	94.51	-	-	87.38	32.07	5.62	30.56	106	32	Peak
2412	92.22	-	-	85.09	32.07	5.62	30.56	106	32	Average
4824	38.47	-35.53	74	53.55	33.82	8.36	57.26	102	185	Peak

Test Mode :	802.11b	Temperature :	23~25°C					
Test Channel :	01	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	Polarization :	Vertical					
	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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	92.46	-	-	85.33	32.07	5.62	30.56	112	181	Peak
2412	89.89	-	-	82.76	32.07	5.62	30.56	112	181	Average
4824	36.21	-37.79	74	51.29	33.82	8.36	57.26	102	185	Peak

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Test Mode :	802.11b	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	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	99.13	-	-	91.77	32.24	5.65	30.53	100	214	Peak
2437	96.14	-	-	88.78	32.24	5.65	30.53	100	214	Average
4874	40.6	-33.4	74	55.43	33.93	8.41	57.17	103	200	Peak
7311	37.55	-36.45	74	50.83	33.89	9.99	57.16	152	324	Peak

Test Mode :	802.11b	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	Polarization :	Vertical					
	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	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)	
2437	95.5	-	-	88.14	32.24	5.65	30.53	132	245	Peak
2437	93.06	-	-	85.7	32.24	5.65	30.53	132	245	Average
4874	38.47	-35.53	74	53.3	33.93	8.41	57.17	103	200	Peak
7311	38.41	-35.59	74	51.69	33.89	9.99	57.16	152	324	Peak

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Test Mode :	802.11b	Temperature :	23~25°C				
Test Channel :	11	Relative Humidity :	48~52%				
Test Engineer :	Gavin Zhang	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	97.03	-	-	89.52	32.33	5.68	30.5	136	8	Peak
2462	94.58	-	-	87.07	32.33	5.68	30.5	136	8	Average
4924	38.94	-35.06	74	53.51	34.05	8.46	57.08	120	190	Peak
7386	36.47	-37.53	74	49.56	33.94	10.02	57.05	145	203	Peak

Test Mode :	802.11b	Temperature :	23~25°C					
Test Channel :	11	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	Polarization :	Vertical					
	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	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)	
2462	95.59	-	-	88.08	32.33	5.68	30.5	100	293	Peak
2462	93.67	-	-	86.16	32.33	5.68	30.5	100	293	Average
4924	38.58	-35.42	74	53.15	34.05	8.46	57.08	120	190	Peak
7386	36.98	-37.02	74	50.07	33.94	10.02	57.05	145	203	Peak

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Test Mode :	802.11g	Temperature :	23~25°C						
Test Channel :	01	Relative Humidity :	48~52%						
Test Engineer :	Gavin Zhang	Polarization :	Horizontal						
	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.	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	98.04	-	-	90.91	32.07	5.62	30.56	131	222	Peak
2412	90.03	-	-	82.9	32.07	5.62	30.56	131	222	Average
4824	37.42	-36.58	74	52.5	33.82	8.36	57.26	102	185	Peak

Test Mode :	802.11g	Temperature :	23~25°C						
Test Channel :	01	Relative Humidity :	48~52%						
Test Engineer :	Gavin Zhang	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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	95.9	-	-	88.77	32.07	5.62	30.56	100	105	Peak
2412	87.29	-	-	80.16	32.07	5.62	30.56	100	105	Average
4824	35.91	-38.09	74	50.99	33.82	8.36	57.26	102	185	Peak

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Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	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	98.63	-	-	91.27	32.24	5.65	30.53	106	230	Peak
2437	90.13	-	-	82.77	32.24	5.65	30.53	106	230	Average
4874	36.24	-37.76	74	51.07	33.93	8.41	57.17	103	200	Peak
7311	37.16	-36.84	74	50.44	33.89	9.99	57.16	152	324	Peak

Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	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)	$(dB\mu V/m)$	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	95.47	-	-	88.11	32.24	5.65	30.53	100	106	Peak
2437	86.94	-	-	79.58	32.24	5.65	30.53	100	106	Average
4874	37.01	-36.99	74	51.84	33.93	8.41	57.17	103	200	Peak
7311	37.27	-36.73	74	50.55	33.89	9.99	57.16	152	324	Peak

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Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	11	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	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)	
38.73	29.94	-10.06	40	47.5	12.15	0.84	30.55	178	241	Peak
94.02	30.15	-13.35	43.5	50.86	8.72	1.22	30.65	-	-	Peak
201.69	32.36	-11.14	43.5	50.51	10.48	1.7	30.33	-	-	Peak
510.15	22.19	-23.81	46	31.55	17.4	2.56	29.32	-	-	Peak
723.55	26.59	-19.41	46	32.93	19.7	3	29.04	-	-	Peak
944.71	27.01	-18.99	46	31.06	21.26	3.43	28.74	-	-	Peak
2462	99.93	-	-	92.42	32.33	5.68	30.5	102	231	Peak
2462	90.72	-	-	83.21	32.33	5.68	30.5	102	231	Average
4924	36.58	-37.42	74	51.15	34.05	8.46	57.08	120	190	Peak
7386	37.13	-36.87	74	50.22	33.94	10.02	57.05	145	203	Peak

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Test Mode :	802.11g	Temperature :	23~25°C					
Test Channel :	11	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	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)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
42.61	30	-10	40	48.37	11.3	0.87	30.54	156	230	Peak
200.72	31.91	-11.59	43.5	50.13	10.41	1.7	30.33	-	-	Peak
524.7	22.16	-23.84	46	31.3	17.55	2.61	29.3	-	-	Peak
644.98	24.4	-21.6	46	32.01	18.69	2.84	29.14	-	-	Peak
835.1	25.57	-20.43	46	30.7	20.5	3.26	28.89	-	-	Peak
966.05	26.28	-27.72	54	30.24	21.3	3.45	28.71	-	-	Peak
2462	96.67	-	-	89.16	32.33	5.68	30.5	100	104	Peak
2462	88.15	-	-	80.64	32.33	5.68	30.5	100	104	Average
4924	36.69	-37.31	74	51.26	34.05	8.46	57.08	120	190	Peak
7386	37.47	-36.53	74	50.56	33.94	10.02	57.05	145	203	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 :	Gavin Zhang	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	98.42	-	-	91.29	32.07	5.62	30.56	104	224	Peak
2412	89.74	-	-	82.61	32.07	5.62	30.56	104	224	Average
4824	38.13	-35.87	74	53.21	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 :	Gavin Zhang	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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	96.81	-	-	89.68	32.07	5.62	30.56	100	105	Peak
2412	87.87	-	-	80.74	32.07	5.62	30.56	100	105	Average
4824	37.55	-36.45	74	52.63	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 :	Gavin Zhang	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	97.44	-	-	90.08	32.24	5.65	30.53	100	232	Peak
2437	88.73	-	-	81.37	32.24	5.65	30.53	100	232	Average
4874	36.7	-37.3	74	51.53	33.93	8.41	57.17	195	274	Peak
7311	37.93	-36.07	74	51.21	33.89	9.99	57.16	132	208	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	Polarization :	Vertical					
	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	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)	
2437	96.08	-	-	88.72	32.24	5.65	30.53	100	105	Peak
2437	87.25	-	-	79.89	32.24	5.65	30.53	100	105	Average
4874	36.8	-37.2	74	51.63	33.93	8.41	57.17	195	245	Peak
7311	38.08	-35.92	74	51.36	33.89	9.99	57.16	132	287	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 :	Gavin Zhang	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	99.95	-	-	92.44	32.33	5.68	30.5	131	208	Peak
2462	91.07	-	-	83.56	32.33	5.68	30.5	131	208	Average
4924	36.92	-37.08	74	51.49	34.05	8.46	57.08	178	139	Peak
7386	37.36	-36.64	74	50.45	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 :	Gavin Zhang	Polarization :	Vertical					
	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	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)	
2462	98.46	-	-	90.95	32.33	5.68	30.5	123	21	Peak
2462	89.64	-	-	82.13	32.33	5.68	30.5	123	21	Average
4924	37.3	-36.7	74	51.87	34.05	8.46	57.08	178	139	Peak
7386	38.01	-35.99	74	51.1	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 :	Gavin Zhang	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	95.4	-	-	88.12	32.16	5.65	30.53	129	233	Peak
2422	87.16	-	-	79.88	32.16	5.65	30.53	129	233	Average
4844	38.04	-35.96	74	53.03	33.86	8.38	57.23	183	162	Peak
7266	37.34	-36.66	74	50.69	33.87	9.98	57.2	178	220	Peak

Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	03	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	Polarization :	Vertical					
	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	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)	
2422	92.46	-	-	85.18	32.16	5.65	30.53	100	105	Peak
2422	83.83	-	-	76.55	32.16	5.65	30.53	100	105	Average
4844	37.55	-36.45	74	52.54	33.86	8.38	57.23	178	160	Peak
7266	38.12	-35.88	74	51.47	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 :	Gavin Zhang	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	94.83	-	-	87.47	32.24	5.65	30.53	105	236	Peak
2437	86.58	-	-	79.22	32.24	5.65	30.53	105	236	Average
4874	37.21	-36.79	74	52.04	33.93	8.41	57.17	178	325	Peak
7311	37.38	-36.62	74	50.66	33.89	9.99	57.16	172	209	Peak

Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	Polarization :	Vertical					
	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	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)	
2437	93.05	-	-	85.69	32.24	5.65	30.53	100	105	Peak
2437	84.28	-	-	76.92	32.24	5.65	30.53	100	105	Average
4874	37.26	-36.74	74	52.09	33.93	8.41	57.17	158	318	Peak
7311	37.77	-36.23	74	51.05	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 :	Gavin Zhang	Polarization :	Horizontal					
	1. 2452 MHz is fundame	ntal 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)	
2452	96.81	-	-	89.39	32.24	5.68	30.5	104	233	Peak
2452	88.37	-	-	80.95	32.24	5.68	30.5	104	233	Average
4904	36.67	-37.33	74	51.33	34.01	8.44	57.11	129	279	Peak
7356	37.82	-36.18	74	50.99	33.92	10.01	57.1	152	247	Peak

Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	09	Relative Humidity :	48~52%					
Test Engineer :	Gavin Zhang	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
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2452	93.41	-	-	85.99	32.24	5.68	30.5	100	104	Peak
2452	85.34	-	-	77.92	32.24	5.68	30.5	100	104	Average
4904	37.26	-36.74	74	51.92	34.01	8.44	57.11	170	215	Peak
7356	36.99	-37.01	74	50.16	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 (dΒμV)
(MHz)	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}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 with Maximum Hold Mode.

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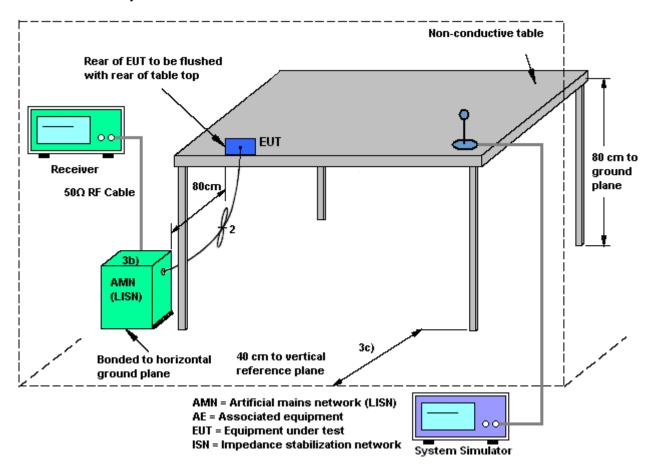
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3.6.4 Test Setup

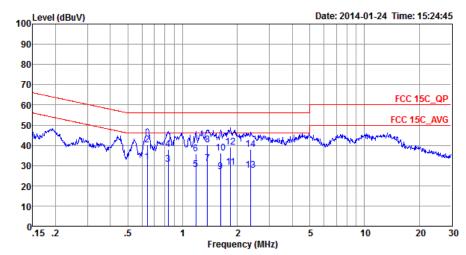


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3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22℃
Test Engineer :	Leo Liao	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GPRS850 Idle + Bluetooth	Link + WLAN Link	+ USB Cable (Charging from
Function Type :	Adapter) + Earphone		



Site : CO01-SZ Condition: FCC 15C_QP LISN_L_20130328 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
_	MHz	dBu₹	dB	dBuV	dBu₹	dB	dB	
1 *	0.64	31.70	-14.30	46.00	21.40	0.15	10.15	Average
2	0.64	40.30	-15.70	56.00	30.00	0.15	10.15	QP
3	0.83	30.53	-15.47	46.00	20.20	0.18	10.15	Average
4	0.83	37.83	-18.17	56.00	27.50	0.18	10.15	QP
5	1.18	28.17	-17.83	46.00	17.80	0.21	10.16	Average
6	1.18	35.97	-20.03	56.00	25.60	0.21	10.16	QP
7	1.37	31.08	-14.92	46.00	20.70	0.21	10.17	Average
8	1.37	40.18	-15.82	56.00	29.80	0.21	10.17	QP
9	1.62	26.90	-19.10	46.00	16.50	0.22	10.18	Average
10	1.62	36.20	-19.80	56.00	25.80	0.22	10.18	QP
11	1.84	29.31	-16.69	46.00	18.90	0.23	10.18	Average
12	1.84	39.11	-16.89	56.00	28.70	0.23	10.18	QP
13	2.37	27.64	-18.36	46.00	17.20	0.24	10.20	Average
14	2.37	37.94	-18.06	56.00	27.50	0.24	10.20	QP

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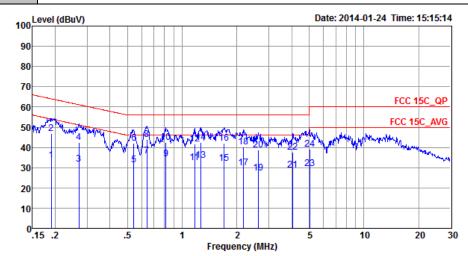


 Test Mode :
 Mode 1
 Temperature :
 21~22°C

 Test Engineer :
 Leo Liao
 Relative Humidity :
 41~42%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 GPRS850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone



Site : CO01-SZ

Condition: FCC 15C_QP LISN_N_20130328 NEUTRAL

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
4	0.10	22.45	00 57	F4 00	00 10	0.04	10 01	
1	0.19		-20.57		23.10			Average
2	0.19		-17.17		36.50		10.31	
3	0.27		-19.36		21.50			Average
4	0.27		-18.76		32.10	0.04	10.22	QP
5	0.54	31.49	-14.51	46.00	21.30	0.04	10.15	Average
6	0.54	42.19	-13.81	56.00	32.00	0.04	10.15	QP
7 *	0.64	35.89	-10.11	46.00	25.70	0.04	10.15	Average
8	0.64	43.99	-12.01	56.00	33.80	0.04	10.15	QP
9	0.81	34.29	-11.71	46.00	24.10	0.04	10.15	Average
10	0.81	42.59	-13.41	56.00	32.40	0.04	10.15	QP
11	1.17	32.60	-13.40	46.00	22.40	0.04	10.16	Average
12	1.17	41.80	-14.20	56.00	31.60	0.04	10.16	QP
13	1.27	33.71	-12.29	46.00	23.50	0.05	10.16	Average
14	1.27	42.61	-13.39	56.00	32.40	0.05	10.16	QP
15	1.70	32.13	-13.87	46.00	21.89	0.06	10.18	Average
16	1.70	41.93	-14.07	56.00	31.69	0.06	10.18	QP
17	2.18	30.06	-15.94	46.00	19.81	0.06	10.19	Average
18	2.18	40.26	-15.74	56.00	30.01	0.06	10.19	QP
19	2.62	27.28	-18.72	46.00	17.00	0.08	10.20	Average
20	2.62	38.78	-17.22	56.00	28.50	0.08	10.20	QP
21	4.07	28.73	-17.27	46.00	18.40	0.10	10.23	Average
22	4.07	37.63	-18.37	56.00	27.30	0.10		_
23	5.03		-20.35		19.30			Average
24	5.03		-21.05	60.00	28.60	0.11	10.24	
	0.00							~ -

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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. 28, 2013	Jan. 25, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm~-20dBm	Mar. 28, 2013	Jan. 25, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	0.3GHz~40GHz	Mar. 28, 2013	Jan. 25, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	Apr. 04, 2013	Feb. 04, 2014	Apr. 03, 2014	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 29, 2013	Feb. 04, 2014	May 28, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 23, 2013	Feb. 04, 2014	Dec. 22, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Feb. 04, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA9170 249	14GHz~40GHz	Nov. 22, 2013	Feb. 04, 2014	Nov. 21, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Mar. 29, 2013	Feb. 04, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 29, 2013	Feb. 04, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Feb. 04, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Feb. 04, 2014	NCR	Radiation (03CH01-SZ)
ESCIO Test Receiver	R&S	ESCI	100724	9kHz~3GHz	Mar. 29, 2013	Jan. 24, 2014	Mar. 28, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Jan. 24, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Jan. 24, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Dec. 17, 2013	Jan. 24, 2014	Dec. 16, 2014	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 Confidence of 95% (U = 2Uc(y))	2.26

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

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

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