

# FCC RF Test Report

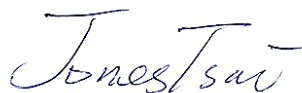
**APPLICANT** : Lenovo (Shanghai) Electronics Technology Co., Ltd.  
**EQUIPMENT** : Portable Tablet Computer  
**BRAND NAME** : lenovo  
**MODEL NAME** : Lenovo B8000-F; 60046; Z0AL  
**MARKETING NAME** : YOGA TABLET 10  
**FCC ID** : O57B8000F  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : (DTS) Digital Transmission System

The product was received on Jul. 26, 2013 and completely tested on Aug. 22, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (KUNSHAN) INC.**  
**No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.**



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**APPENDIX A. SETUP PHOTOGRAPHS**



### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR372603-02C	Rev. 01	Initial issue of report	Aug. 27, 2013

## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 4.4 dB at 2483.740 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 4.55 dB at 0.640 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



# 1 General Description

## 1.1 Applicant

**Lenovo (Shanghai) Electronics Technology Co., Ltd.**  
No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ, Shanghai, China

## 1.2 Manufacturer

**Lenovo PC HK Limited**  
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong

## 1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	lenovo
Model Name	Lenovo B8000-F; 60046; Z0AL
Marketing Name	YOGA TABLET 10
FCC ID	O57B8000F
EUT supports Radios application	WLAN 2.4GHz 11b/g/n HT20/HT40 Bluetooth v3.0 + EDR/Bluetooth v4.0
HW Version	Lenovo B8000-F
SW Version	B8000-130906
EUT Stage	Identical Prototype

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT sample 1 and sample 2, the differences between two samples is only different supplier for RAM/ Panel/ Touch panel/ camera.

### 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
<b>Tx/Rx Channel Frequency Range</b>	2412 MHz ~ 2462 MHz
<b>Maximum Output Power to Antenna</b>	802.11b : 18.78 dBm (0.0755 W) 802.11g : 22.96 dBm (0.1977 W) 802.11n HT20 : 19.31 dBm (0.0853 W) 802.11n HT40 : 22.96 dBm (0.1977 W)
<b>99% Occupied Bandwidth</b>	802.11b : 11.95MHz 802.11g : 17.80MHz 802.11n HT20 : 18.50MHz 802.11n HT40 : 36.20MHz
<b>Antenna Type</b>	PIFA Antenna with gain 1.6 dBi
<b>Type of Modulation</b>	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

### 1.5 Modification of EUT

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



### 1.6 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL (KUNSHAN) INC.			
<b>Test Site Location</b>	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958			
<b>Test Site No.</b>	<b>Sporton Site No.</b>			<b>FCC Registration No.</b>
	TH01-KS	CO01-KS	03CH01-KS	149928

**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:**

1. 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.

## 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, EUT is rotated on three test planes in Tablet PC configurations and one test plane in Laptop PC configuration to find out the worst emission and 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)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		





## 2.2 Pre-Scanned RF Power

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

Channel	Frequency	2.4GHz 802.11b RF Power (dBm)			
		DSSS Data Rate			
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
CH 01	2412 MHz	17.45	17.51	17.52	17.33
CH 06	2437 MHz	18.45	18.41	18.33	18.24
CH 11	2462 MHz	18.78	18.65	18.61	18.55

Channel	Frequency	2.4GHz 802.11g RF Power (dBm)							
		OFDM Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 01	2412 MHz	21.89	21.75	21.81	21.67	21.55	21.62	21.72	21.79
CH 06	2437 MHz	22.65	22.61	22.55	22.51	22.43	22.44	22.35	22.32
CH 11	2462 MHz	22.96	22.79	22.85	22.69	22.45	22.35	22.58	22.61

Channel	Frequency	2.4GHz 802.11n HT20 RF Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412 MHz	18.35	18.33	18.21	17.57	17.71	17.37	17.56	17.78
CH 06	2437 MHz	19.24	18.36	18.62	18.29	18.33	18.10	18.17	18.29
CH 11	2462 MHz	19.31	18.60	19.01	19.29	18.69	18.88	19.09	18.19

Channel	Frequency	2.4GHz 802.11n HT40 RF Power (dBm)							
		OFDM Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2422 MHz	18.05	16.37	16.32	16.23	15.85	15.86	15.75	15.78
CH 06	2437 MHz	22.96	22.85	22.69	22.71	22.79	22.55	22.66	22.58
CH 09	2452 MHz	18.58	18.05	17.98	17.69	17.51	16.85	16.56	16.15



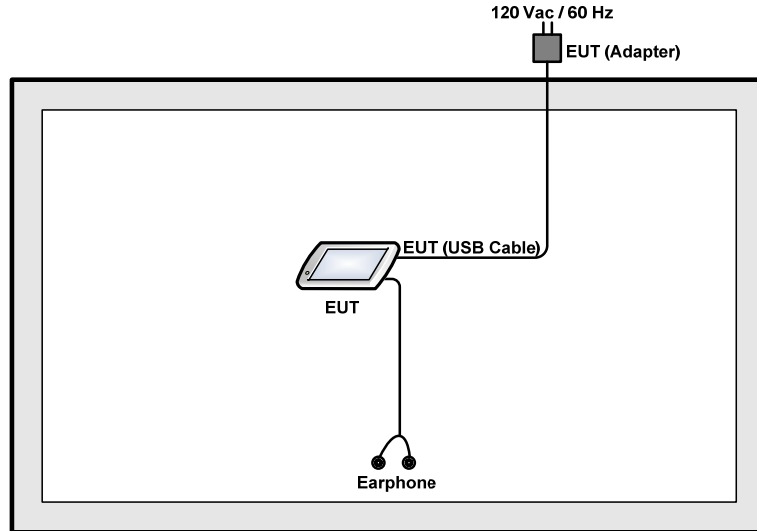
### 2.3 Test Mode

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

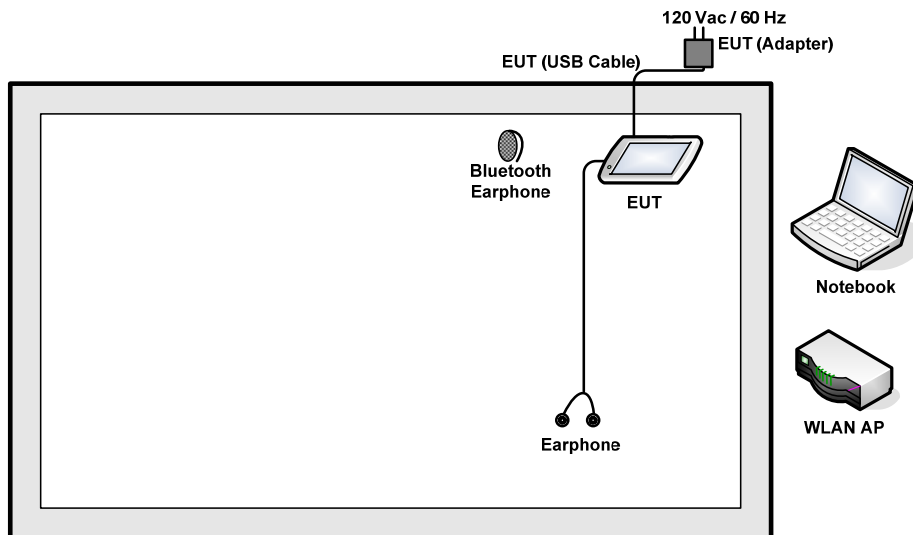
Test Cases				
	Test Items	Mode	Data Rate	Test Channel
Conducted TCs	6dB and 99% BW Power Spectral Density	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	MCS0	1/6/11
		802.11n HT40	MCS0	3/6/9
	Output Power	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	MCS0	1/6/11
		802.11n HT40	MCS0	3/6/9
	Conducted Band Edge	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11n HT20	MCS0	1/11
		802.11n HT40	MCS0	3/9
	Conducted Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	MCS0	1/6/11
		802.11n HT40	MCS0	3/6/9
Radiated TCs	Radiated Band Edge	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11n HT20	MCS0	1/11
		802.11n HT40	MCS0	3/9
	Radiated Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	MCS0	1/6/11
		802.11n HT40	MCS0	3/6/9
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN Link + USB Cable 1 (Charging from Adapter) + Earphone for Sample 1 Mode 2 : Bluetooth Link + WLAN Link + USB Cable 2 (Charging from Adapter) + Earphone for Sample 2			
<b>Remark:</b>				
1. The worst case of conducted emission is mode 1; only the test data of it is reported.				
2. For Radiated TCs, all the test modes are performed with USB Cable 1 and Sample 1, only the worst mode (802.11g CH11) based on Sample 1 need to verify USB Cable 2 and Sample 2.				

## 2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



## 2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Lenovo	LBH301	FCC DoC	N/A	N/A
4.	Earphone	Lenovo	SH100	FCC DoC	N/A	Unshielded, 1.2 m
5.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

## 2.6 Description of RF Function Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

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



## 2.7 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5 + 10 = 15 \text{ (dB)} \end{aligned}$$

### 3 Test Result

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

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

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

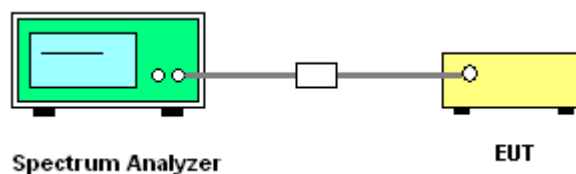
##### 3.1.2 Measuring Instruments

See list of measuring instruments 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. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

##### 3.1.4 Test Setup

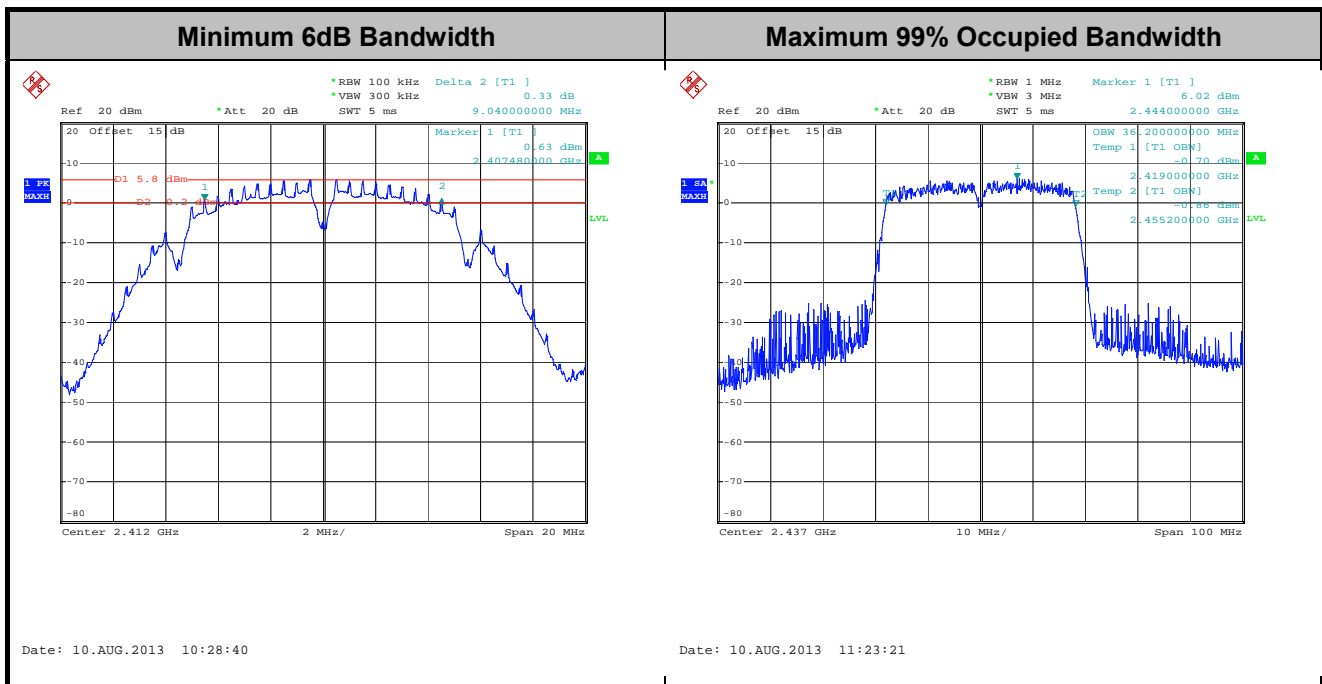




3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Test Band :	2.4GHz	Temperature :	23~24°C
Test Engineer :	Adonis Li	Relative Humidity :	47~48%

Mod.	Data Rate	N <sub>TX</sub>	Channel	Freq. (MHz)	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	11.95	9.04	0.5	Pass
11b	1Mbps	1	6	2437	11.95	9.04	0.5	Pass
11b	1Mbps	1	11	2462	11.90	9.04	0.5	Pass
11g	6Mbps	1	1	2412	17.70	16.44	0.5	Pass
11g	6Mbps	1	6	2437	17.80	16.36	0.5	Pass
11g	6Mbps	1	11	2462	17.80	16.36	0.5	Pass
HT20	MCS0	1	1	2412	18.50	17.60	0.5	Pass
HT20	MCS0	1	6	2437	18.50	17.60	0.5	Pass
HT20	MCS0	1	11	2462	18.50	17.56	0.5	Pass
HT40	MCS0	1	3	2422	36.10	35.12	0.5	Pass
HT40	MCS0	1	6	2437	36.20	35.28	0.5	Pass
HT40	MCS0	1	9	2452	36.10	35.28	0.5	Pass



## 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.

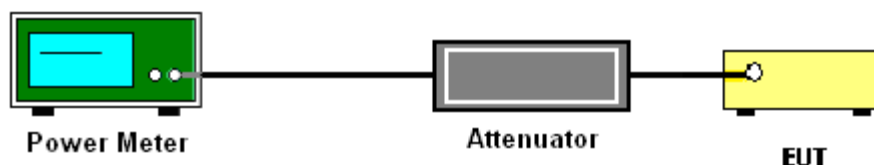
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. 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







3.2.5 Test Result of Peak Output Power

Test Mode :	2.4GHz	Temperature :	23~24°C
Test Engineer :	Adonis Li	Relative Humidity :	47~48%

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	17.45	30	1.60	Pass
11b	1Mbps	1	6	2437	18.45	30	1.60	Pass
11b	1Mbps	1	11	2462	18.78	30	1.60	Pass
11g	6Mbps	1	1	2412	21.89	30	1.60	Pass
11g	6Mbps	1	6	2437	22.65	30	1.60	Pass
11g	6Mbps	1	11	2462	22.96	30	1.60	Pass
HT20	MCS0	1	1	2412	18.35	30	1.60	Pass
HT20	MCS0	1	6	2437	19.24	30	1.60	Pass
HT20	MCS0	1	11	2462	19.31	30	1.60	Pass
HT40	MCS0	1	3	2422	18.05	30	1.60	Pass
HT40	MCS0	1	6	2437	22.96	30	1.60	Pass
HT40	MCS0	1	9	2452	18.58	30	1.60	Pass

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



3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	2.4GHz	Temperature :	23~24°C
Test Engineer :	Adonis Li	Relative Humidity :	47~48%

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	0.04	14.08	30	1.60	Pass
11b	1Mbps	1	6	2437	0.04	15.07	30	1.60	Pass
11b	1Mbps	1	11	2462	0.04	15.43	30	1.60	Pass
11g	6Mbps	1	1	2412	0.36	11.61	30	1.60	Pass
11g	6Mbps	1	6	2437	0.36	12.27	30	1.60	Pass
11g	6Mbps	1	11	2462	0.36	12.61	30	1.60	Pass
HT20	MCS0	1	1	2412	0.35	6.46	30	1.60	Pass
HT20	MCS0	1	6	2437	0.35	8.34	30	1.60	Pass
HT20	MCS0	1	11	2462	0.35	9.11	30	1.60	Pass
HT40	MCS0	1	3	2422	0.69	5.74	30	1.60	Pass
HT40	MCS0	1	6	2437	0.69	11.89	30	1.60	Pass
HT40	MCS0	1	9	2452	0.69	6.48	30	1.60	Pass

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

### 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.

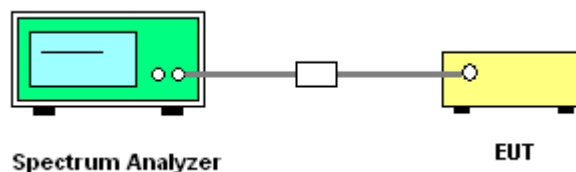
#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Test Procedures

1. 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



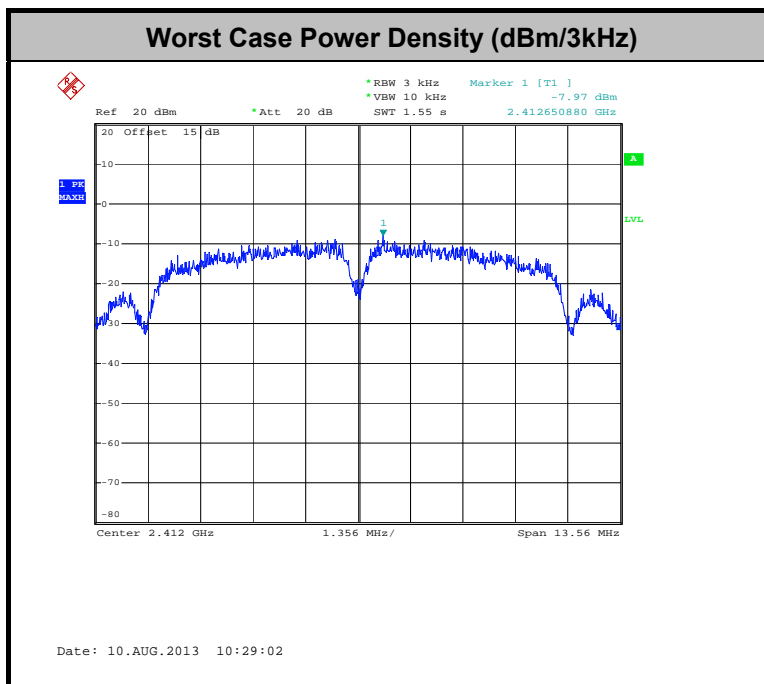


3.3.5 Test Result of Power Spectral Density

Test Mode :	2.4GHz	Temperature :	23~24°C
Test Engineer :	Adonis Li	Relative Humidity :	47~48%

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	-7.97	8	1.60	Pass
11b	1Mbps	1	6	2437	-8.53	8	1.60	Pass
11b	1Mbps	1	11	2462	-8.13	8	1.60	Pass
11g	6Mbps	1	1	2412	-13.65	8	1.60	Pass
11g	6Mbps	1	6	2437	-12.26	8	1.60	Pass
11g	6Mbps	1	11	2462	-12.89	8	1.60	Pass
HT20	MCS0	1	1	2412	-16.62	8	1.60	Pass
HT20	MCS0	1	6	2437	-17.57	8	1.60	Pass
HT20	MCS0	1	11	2462	-16.85	8	1.60	Pass
HT40	MCS0	1	3	2422	-22.97	8	1.60	Pass
HT40	MCS0	1	6	2437	-16.78	8	1.60	Pass
HT40	MCS0	1	9	2452	-22.25	8	1.60	Pass

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



## 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).

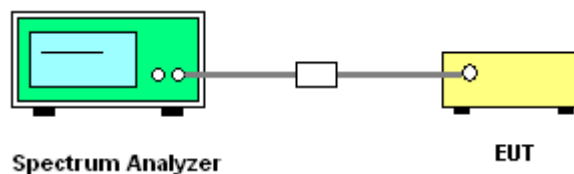
### 3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.4.3 Test Procedures

1. 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.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.4.4 Test Setup

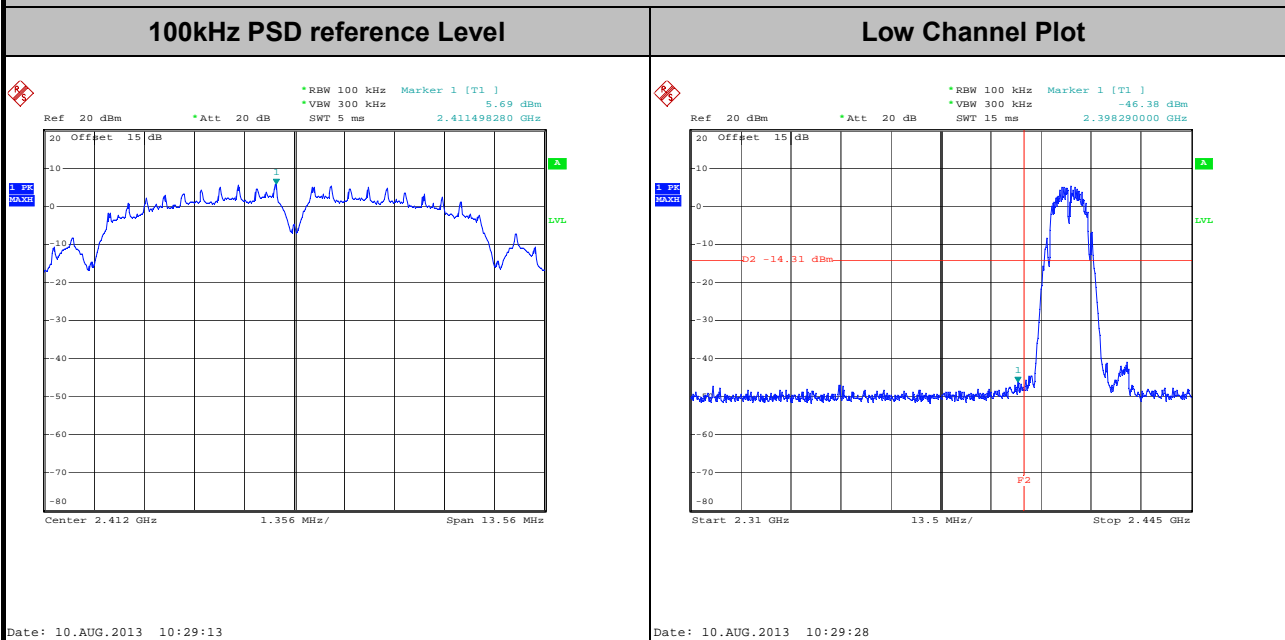




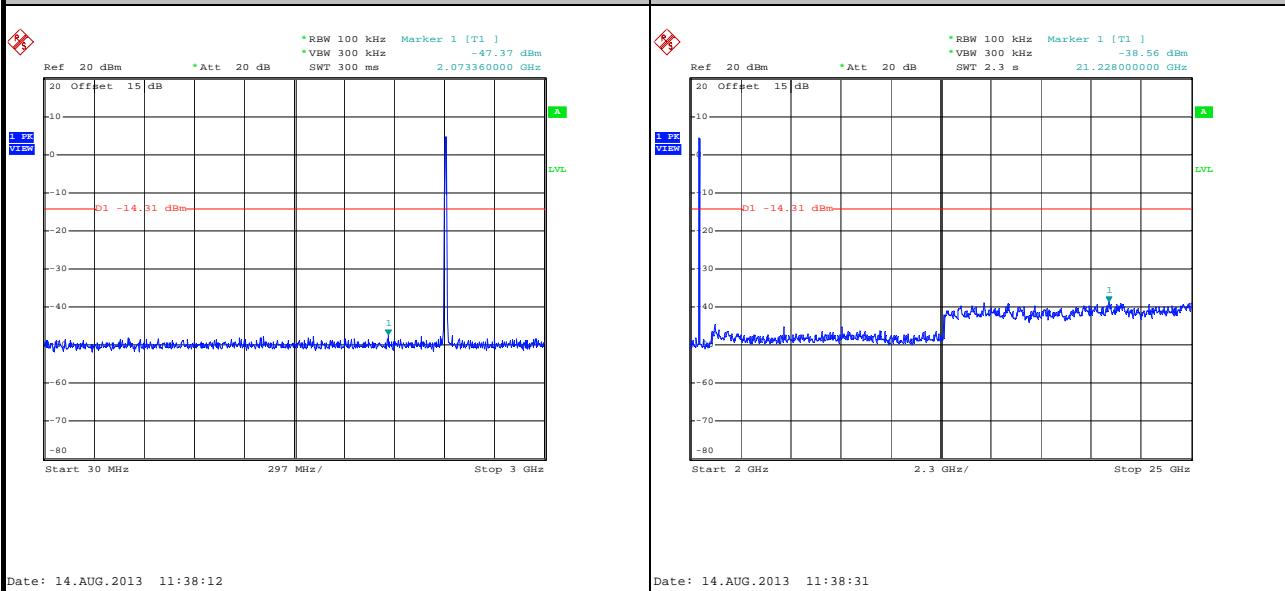
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	23~24°C
Test Band :	2.4GHz Low	Relative Humidity :	47~48%
Test Channel :	01	Test Engineer :	Adonis Li

WLAN 802.11b Channel 01



<b>Spurious Emission 30MHz~3GHz</b>	<b>Spurious Emission 2GHz~25GHz</b>
-------------------------------------	-------------------------------------

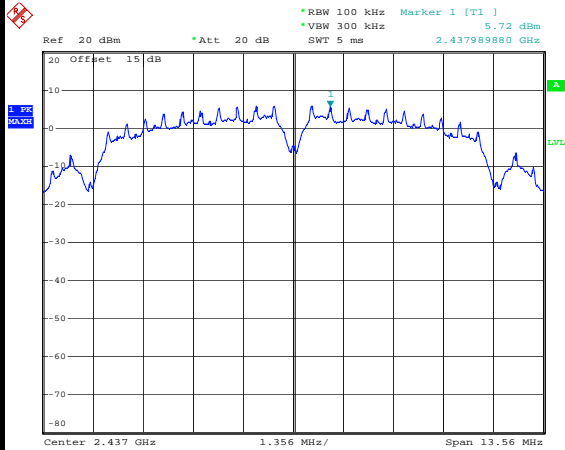




Test Mode :	802.11b	Temperature :	23~24°C
Test Band :	2.4GHz Mid	Relative Humidity :	47~48%
Test Channel :	06	Test Engineer :	Adonis Li

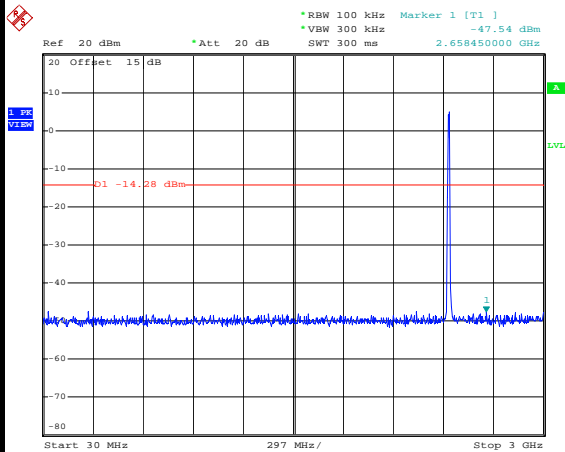
WLAN 802.11b Channel 06

100kHz PSD reference Level



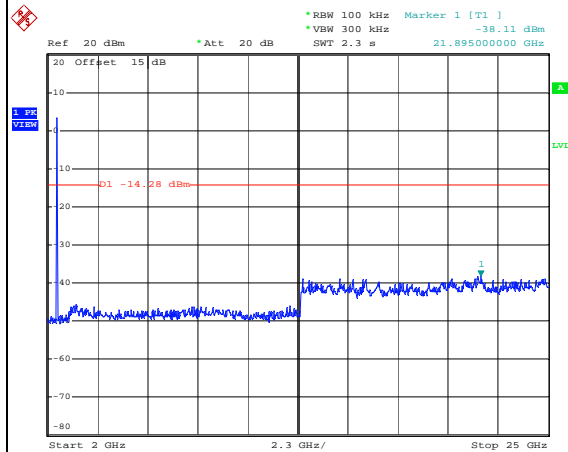
Date: 10.AUG.2013 10:32:17

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 11:40:33

Spurious Emission 2GHz~25GHz



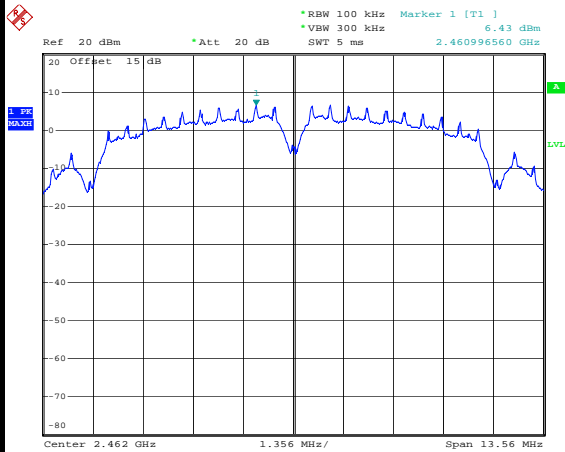
Date: 14.AUG.2013 11:40:53



Test Mode :	802.11b	Temperature :	23~24°C
Test Band :	2.4GHz High	Relative Humidity :	47~48%
Test Channel :	11	Test Engineer :	Adonis Li

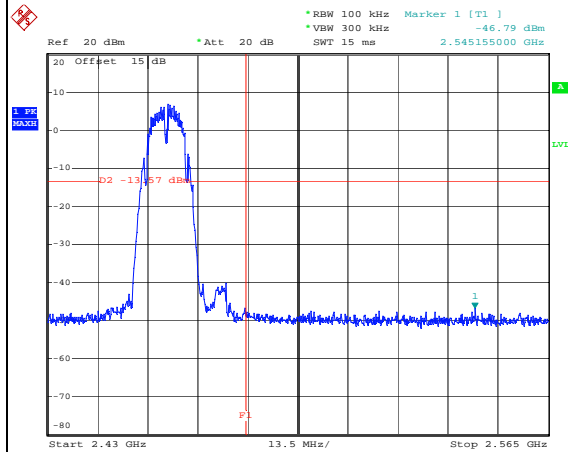
WLAN 802.11b Channel 11

100kHz PSD reference Level



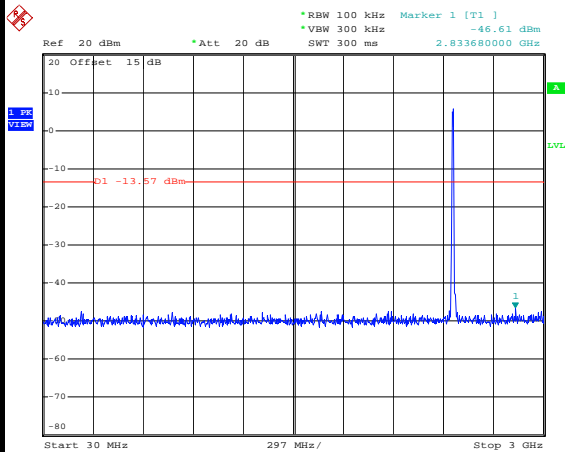
Date: 10.AUG.2013 10:39:08

High Channel Plot



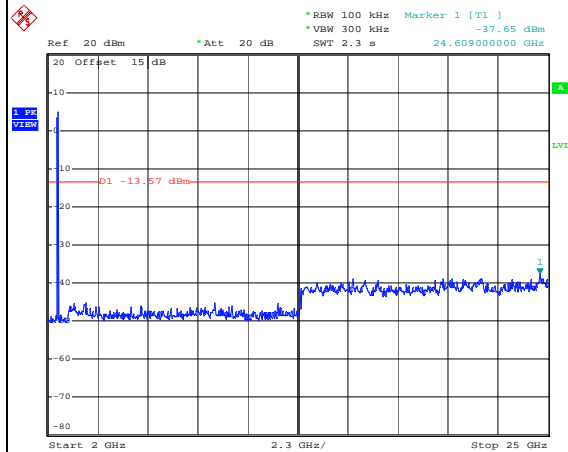
Date: 10.AUG.2013 10:40:46

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 11:43:40

Spurious Emission 2GHz~25GHz



Date: 14.AUG.2013 11:43:59

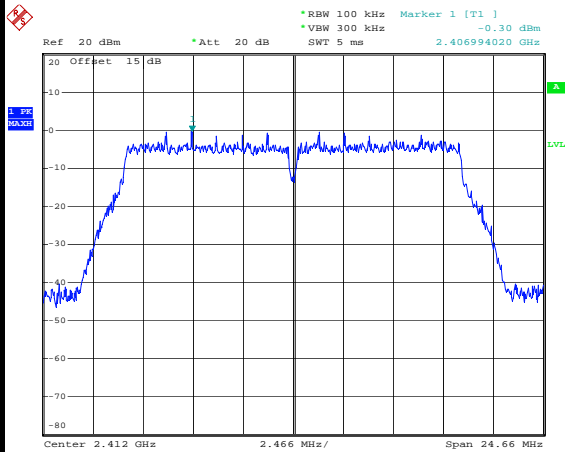




Test Mode :	802.11g	Temperature :	23~24°C
Test Band :	2.4GHz Low	Relative Humidity :	47~48%
Test Channel :	01	Test Engineer :	Adonis Li

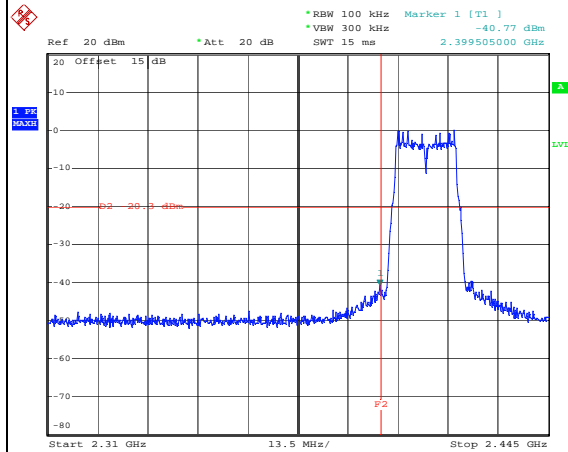
WLAN 802.11g Channel 01

100kHz PSD reference Level



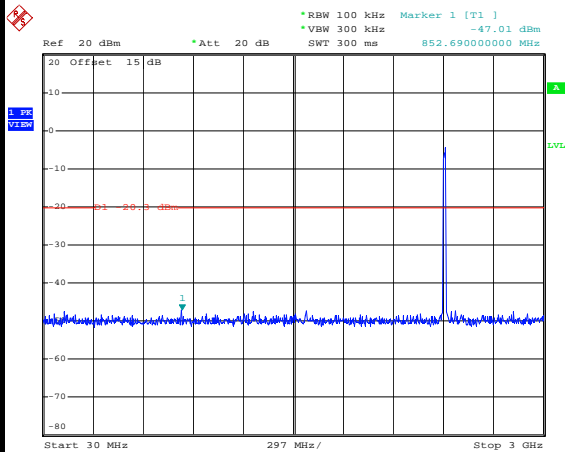
Date: 10.AUG.2013 10:43:12

Low Channel Plot



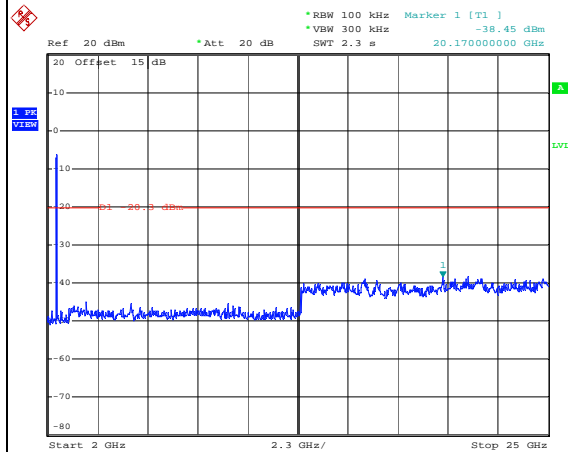
Date: 10.AUG.2013 10:43:26

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 11:29:38

Spurious Emission 2GHz~25GHz



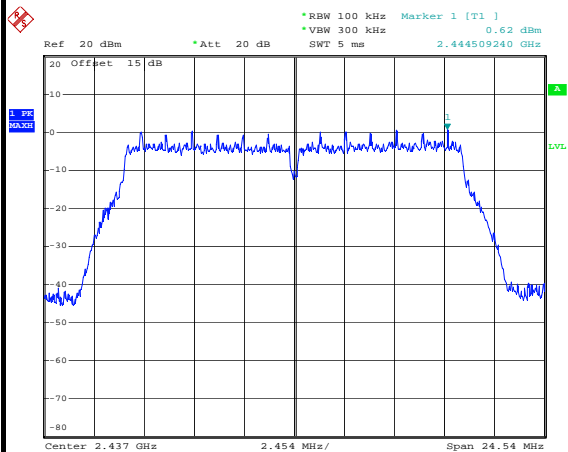
Date: 14.AUG.2013 11:29:57



Test Mode :	802.11g	Temperature :	23~24°C
Test Band :	2.4GHz Mid	Relative Humidity :	47~48%
Test Channel :	06	Test Engineer :	Adonis Li

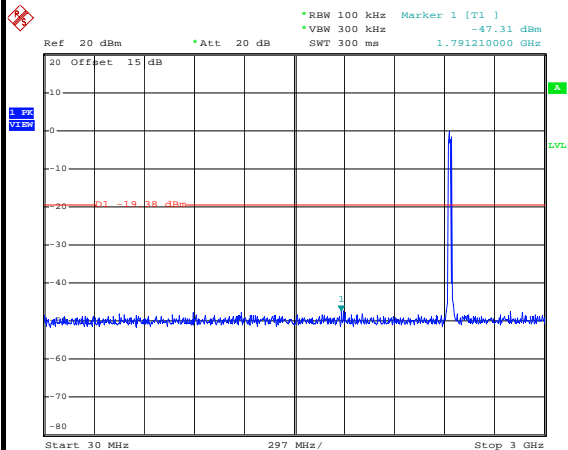
WLAN 802.11g Channel 06

100kHz PSD reference Level



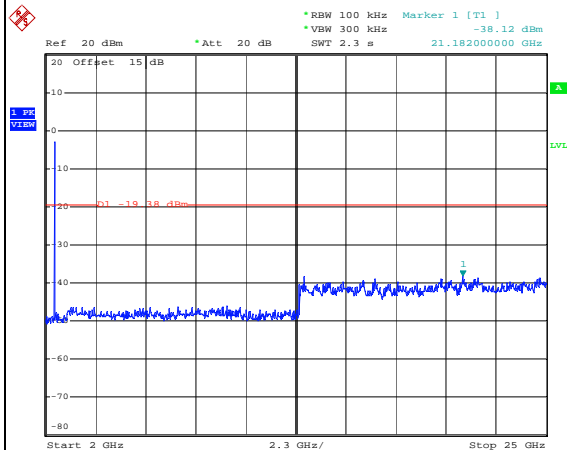
Date: 14.AUG.2013 10:47:44

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 10:48:21

Spurious Emission 2GHz~25GHz



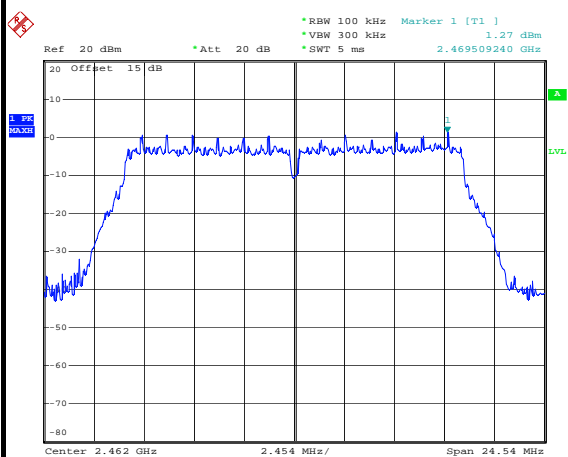
Date: 14.AUG.2013 10:48:41



Test Mode :	802.11g	Temperature :	23~24°C
Test Band :	2.4GHz High	Relative Humidity :	47~48%
Test Channel :	11	Test Engineer :	Adonis Li

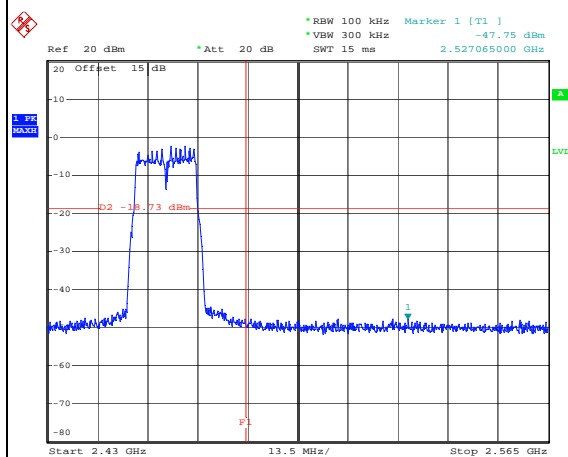
WLAN 802.11g Channel 11

100kHz PSD reference Level



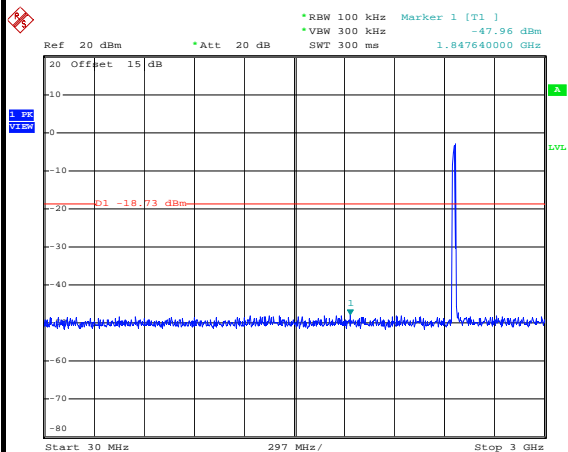
Date: 10.AUG.2013 13:20:14

High Channel Plot



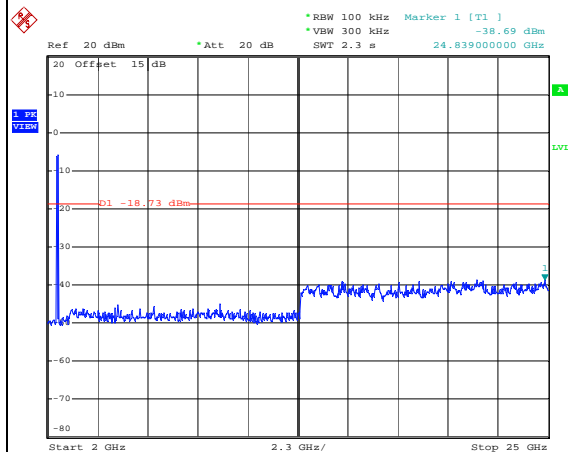
Date: 14.AUG.2013 11:26:15

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 11:30:47

Spurious Emission 2GHz~25GHz



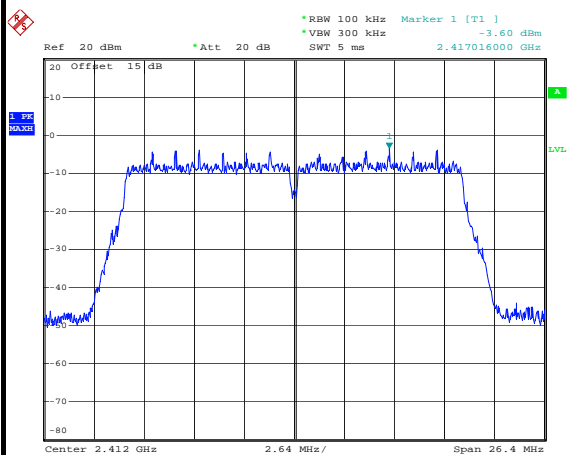
Date: 14.AUG.2013 11:31:06



Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Band :	2.4GHz Low	Relative Humidity :	47~48%
Test Channel :	01	Test Engineer :	Adonis Li

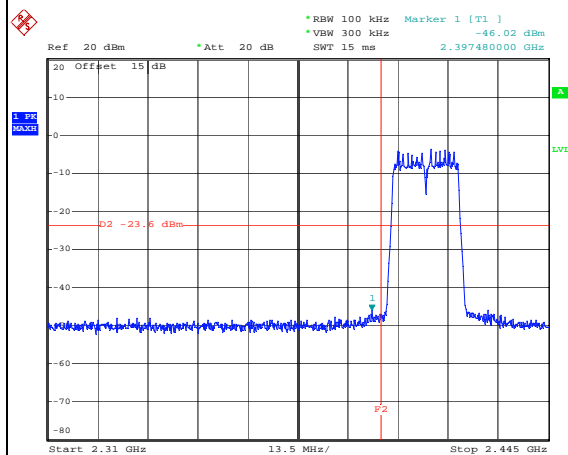
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



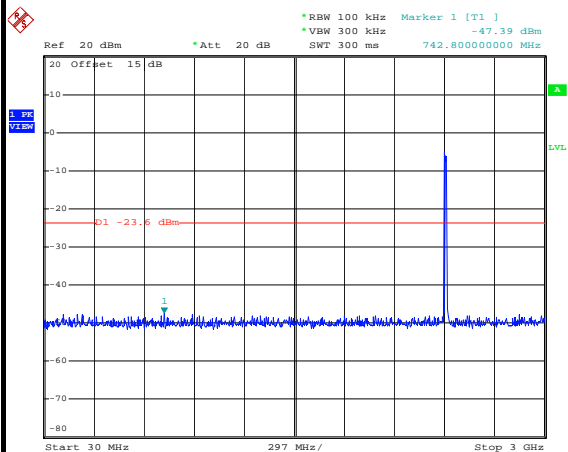
Date: 18.AUG.2013 10:49:15

Low Channel Plot



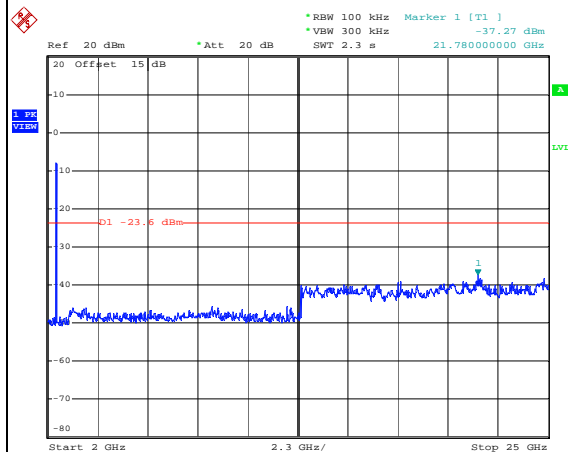
Date: 18.AUG.2013 10:49:36

Spurious Emission 30MHz~3GHz



Date: 18.AUG.2013 10:50:02

Spurious Emission 2GHz~25GHz



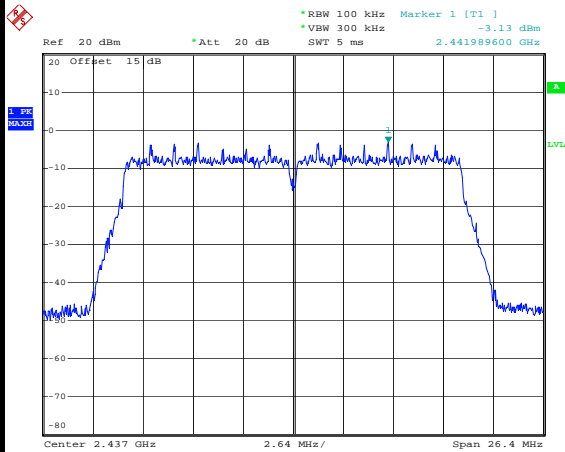
Date: 18.AUG.2013 10:50:21



Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Band :	2.4GHz Mid	Relative Humidity :	47~48%
Test Channel :	06	Test Engineer :	Adonis Li

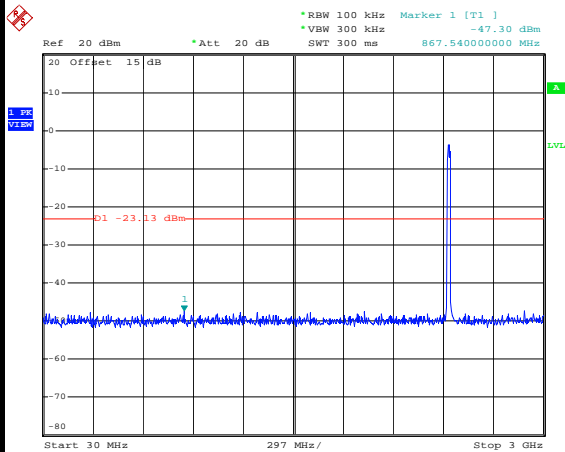
WLAN 802.11n HT20 Channel 06

100kHz PSD reference Level



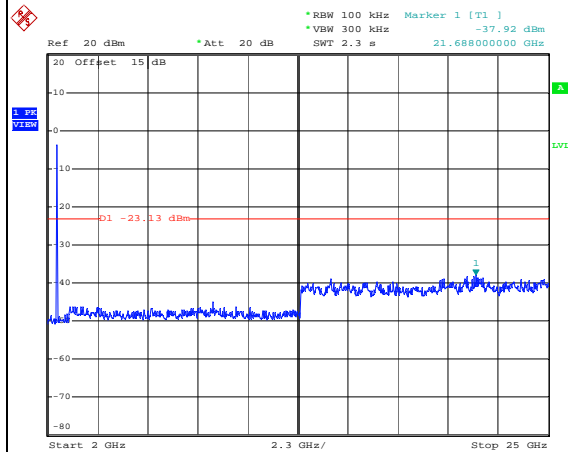
Date: 14.AUG.2013 10:09:56

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 10:10:50

Spurious Emission 2GHz~25GHz



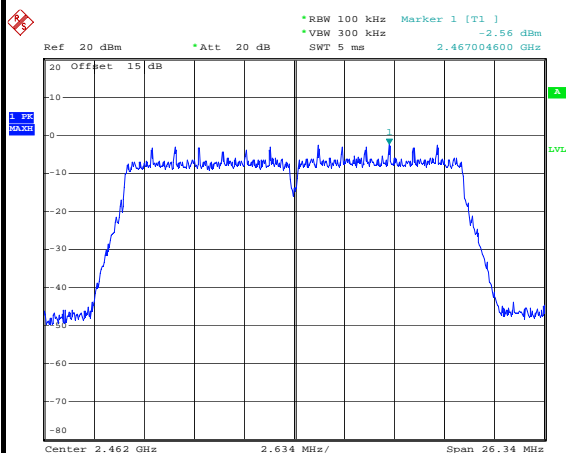
Date: 14.AUG.2013 10:11:09



Test Mode :	802.11n HT20	Temperature :	23~24°C
Test Band :	2.4GHz High	Relative Humidity :	47~48%
Test Channel :	11	Test Engineer :	Adonis Li

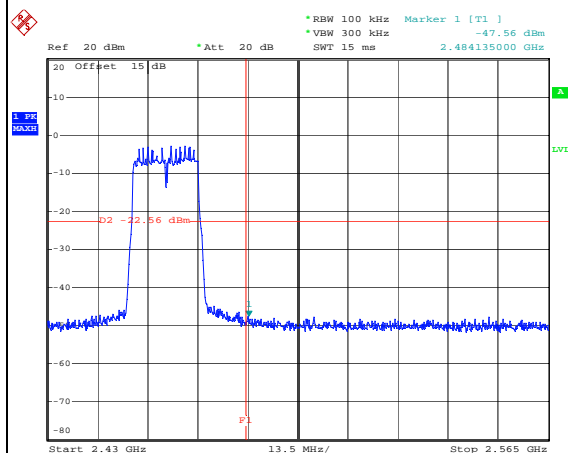
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



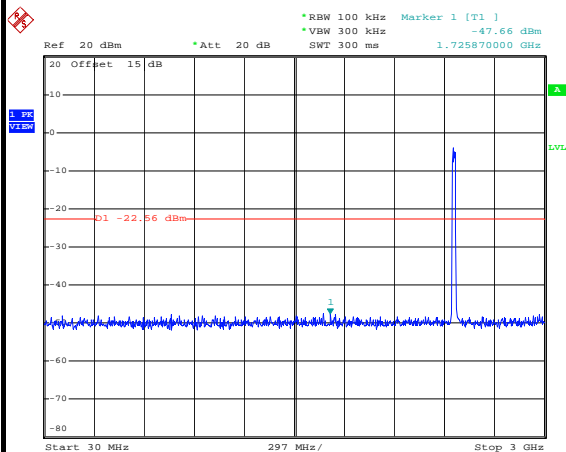
Date: 18.AUG.2013 10:53:15

High Channel Plot



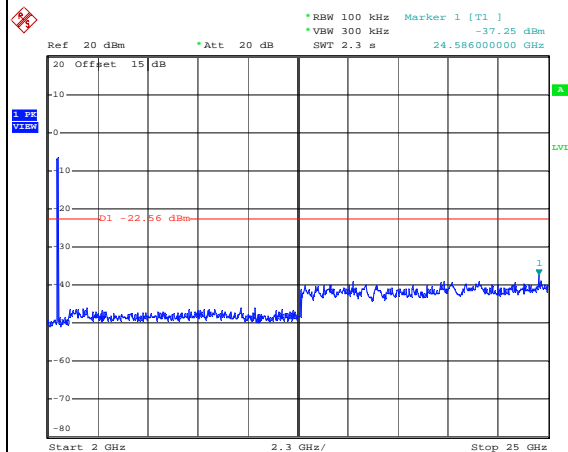
Date: 18.AUG.2013 10:53:34

Spurious Emission 30MHz~3GHz



Date: 18.AUG.2013 10:54:01

Spurious Emission 2GHz~25GHz



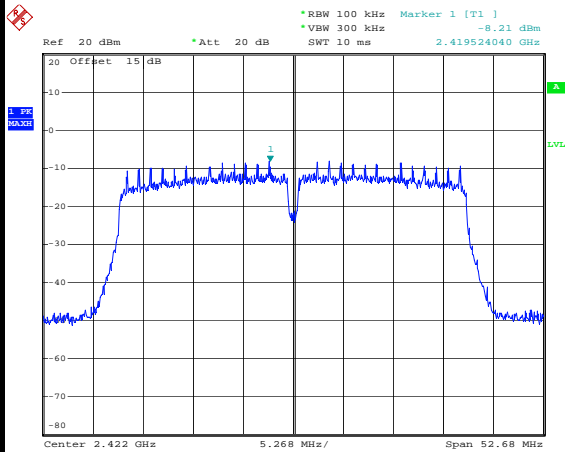
Date: 18.AUG.2013 10:54:20



Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Band :	2.4GHz Low	Relative Humidity :	47~48%
Test Channel :	03	Test Engineer :	Adonis Li

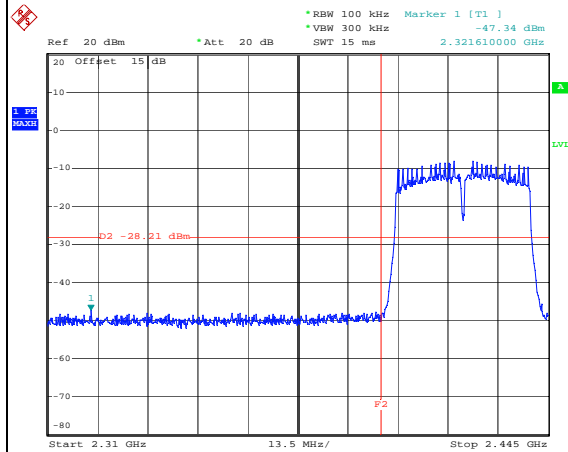
WLAN 802.11n HT40 Channel 03

100kHz PSD reference Level



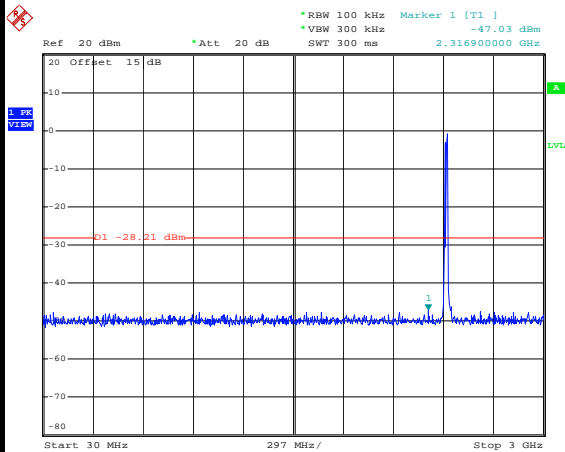
Date: 10.AUG.2013 11:17:50

Low Channel Plot



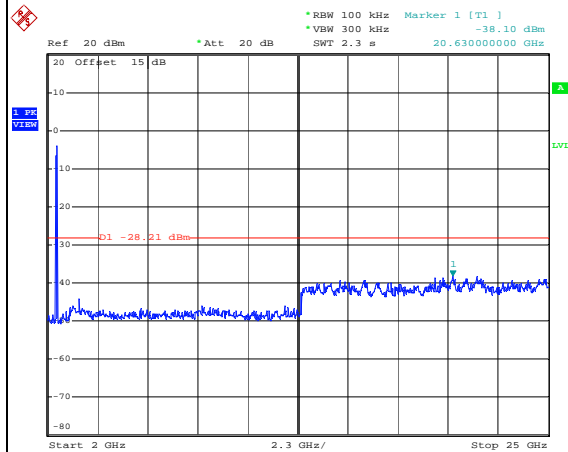
Date: 10.AUG.2013 11:18:04

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 11:56:35

Spurious Emission 2GHz~25GHz



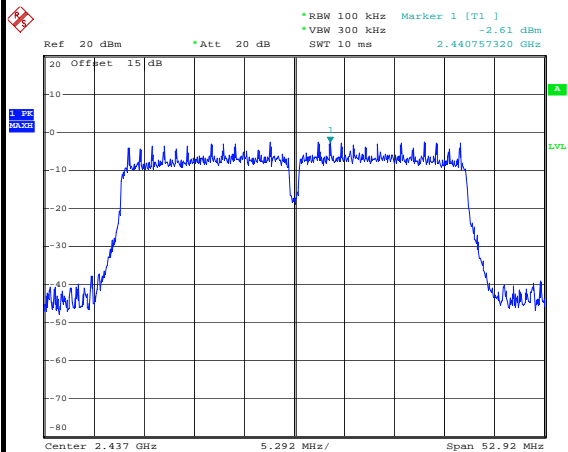
Date: 14.AUG.2013 11:56:54



Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Band :	2.4GHz Mid	Relative Humidity :	47~48%
Test Channel :	06	Test Engineer :	Adonis Li

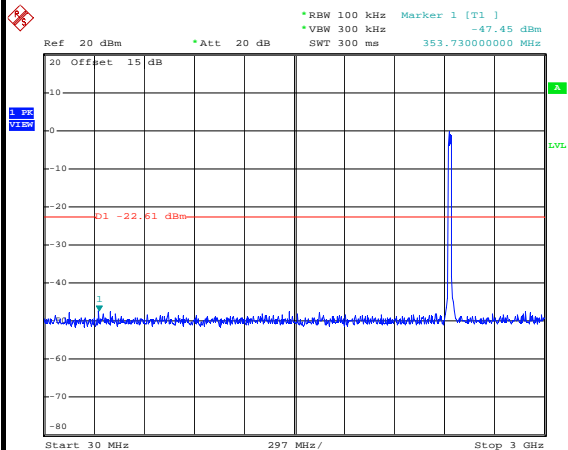
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



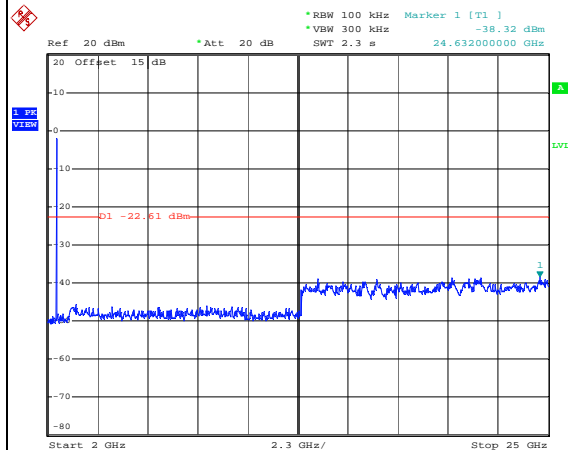
Date: 10.AUG.2013 11:22:28

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 11:57:33

Spurious Emission 2GHz~25GHz



Date: 14.AUG.2013 11:57:52

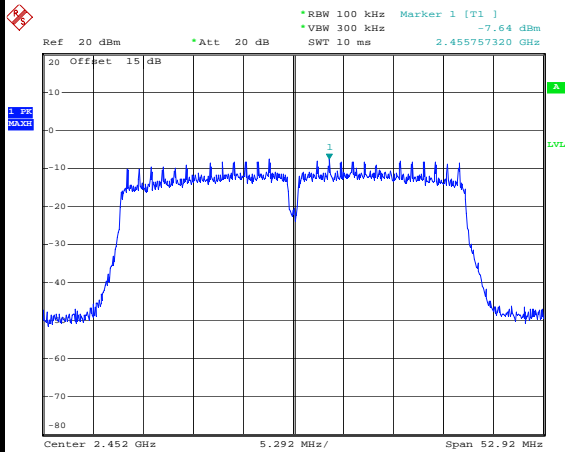




Test Mode :	802.11n HT40	Temperature :	23~24°C
Test Band :	2.4GHz High	Relative Humidity :	47~48%
Test Channel :	09	Test Engineer :	Adonis Li

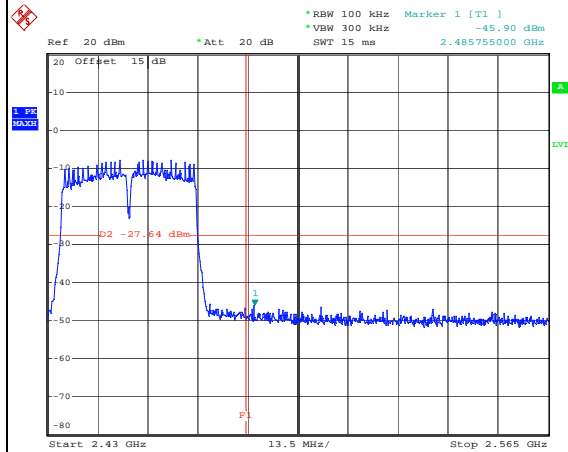
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



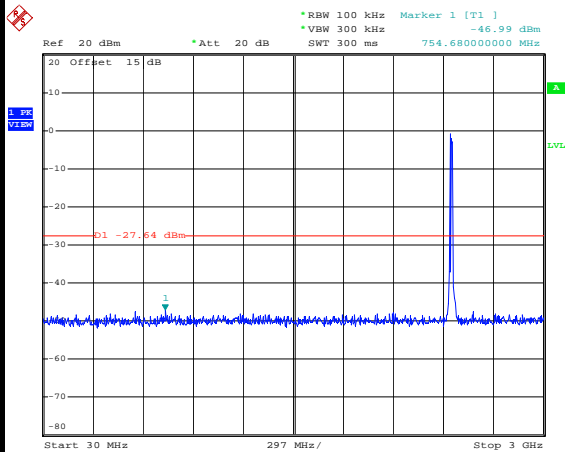
Date: 10.AUG.2013 11:26:14

High Channel Plot



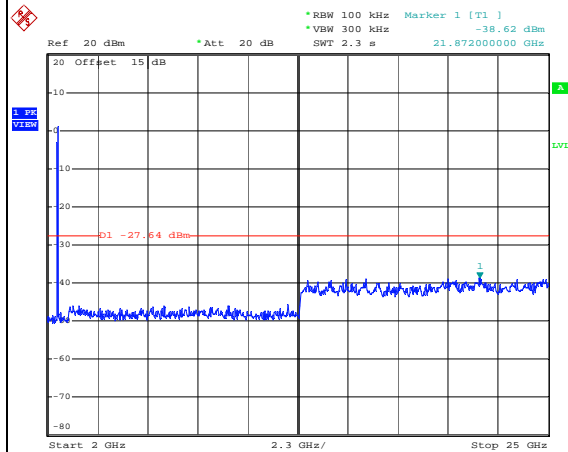
Date: 10.AUG.2013 11:26:29

Spurious Emission 30MHz~3GHz



Date: 14.AUG.2013 13:16:57

Spurious Emission 2GHz~25GHz



Date: 14.AUG.2013 11:58:54



### 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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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

See list of measuring instruments of this test report.

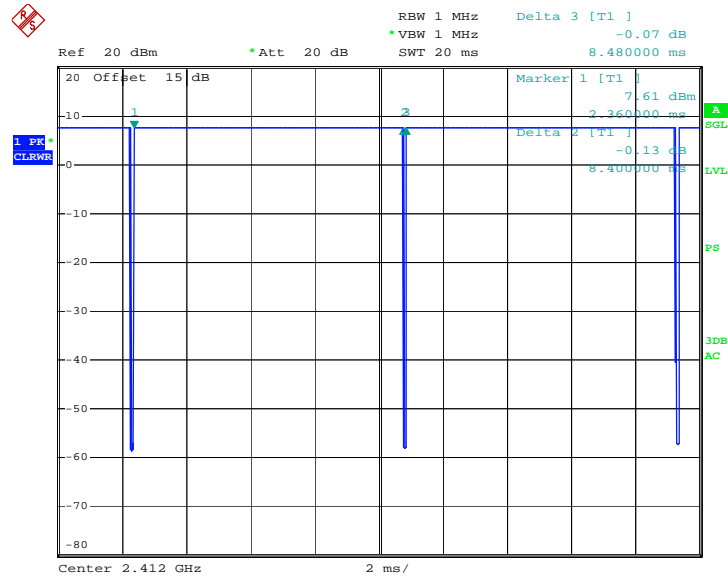
**3.5.3 Test Procedures**

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.
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;  $VBW \geq RBW$ ; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f \geq 1$  GHz for peak measurement.  
 For average measurement:
    - $VBW = 10$  Hz, when duty cycle is no less than 98 percent.
    - $VBW \geq 1/T$ , 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( $\mu$ s)	1/T(kHz)	VBW Setting
802.11b	99.06	-	-	10Hz
802.11g	92.05	1.390	0.719	1kHz
2.4GHz 802.11n HT20	92.18	1.296	0.772	1kHz
2.4GHz 802.11n HT40	85.34	0.652	1.534	3kHz



802.11b Duty Cycle



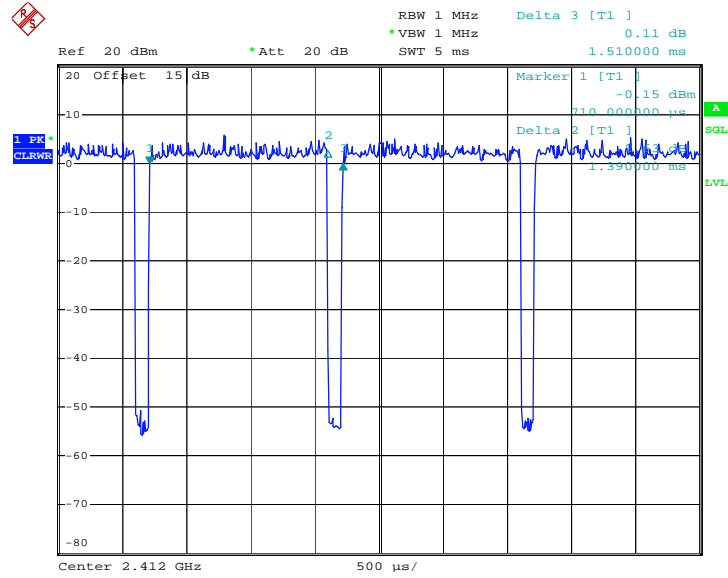
Date: 6.AUG.2013 05:01:42

Note:

The total loss is 15dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer by setting into the amplitude level offset. That means the measured result shown on the spectrum analyzer has added the total loss and been compliance with the limit line.



802.11g Duty Cycle



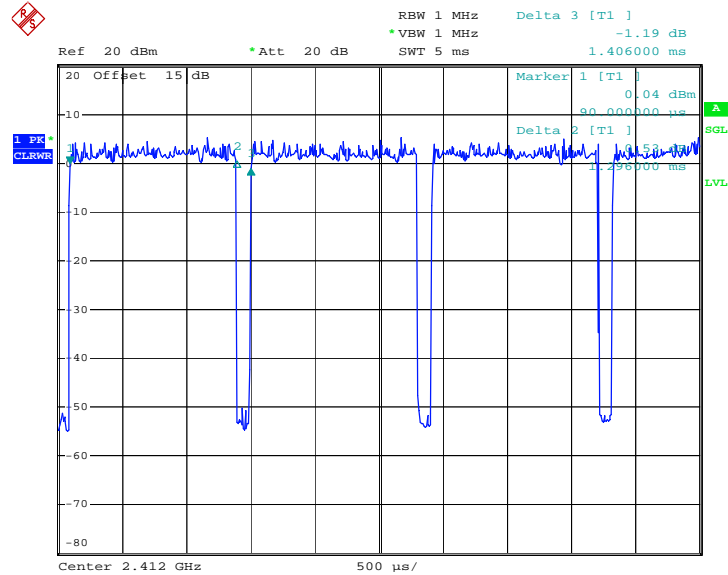
Date: 2.AUG.2013 18:35:37

**Note:**

The total loss is 15dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer by setting into the amplitude level offset. That means the measured result shown on the spectrum analyzer has added the total loss and been compliance with the limit line.



### 2.4GHz 802.11n HT20 Duty Cycle



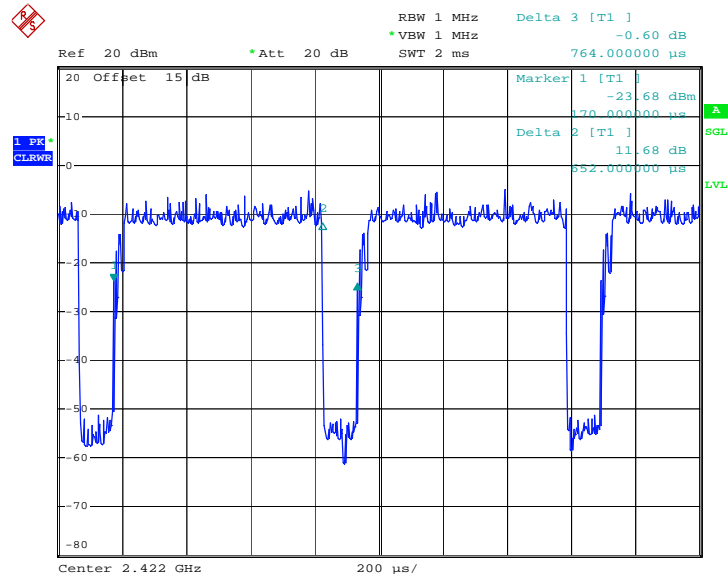
Date: 2.AUG.2013 18:39:23

**Note:**

The total loss is 15dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer by setting into the amplitude level offset. That means the measured result shown on the spectrum analyzer has added the total loss and been compliance with the limit line.



2.4GHz 802.11n HT40 Duty Cycle



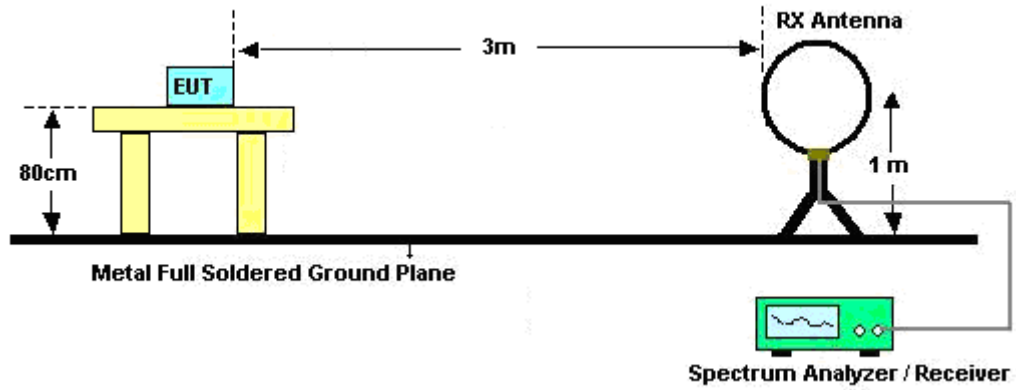
Date: 2.AUG.2013 18:43:37

**Note:**

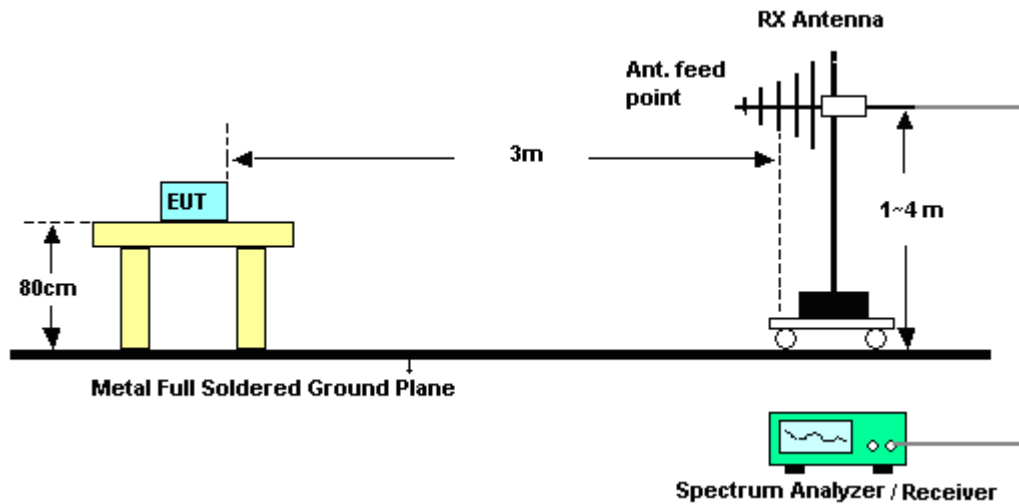
The total loss is 15dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer by setting into the amplitude level offset. That means the measured result shown on the spectrum analyzer has added the total loss and been compliance with the limit line.

### 3.5.4 Test Setup

For radiated emissions below 30MHz

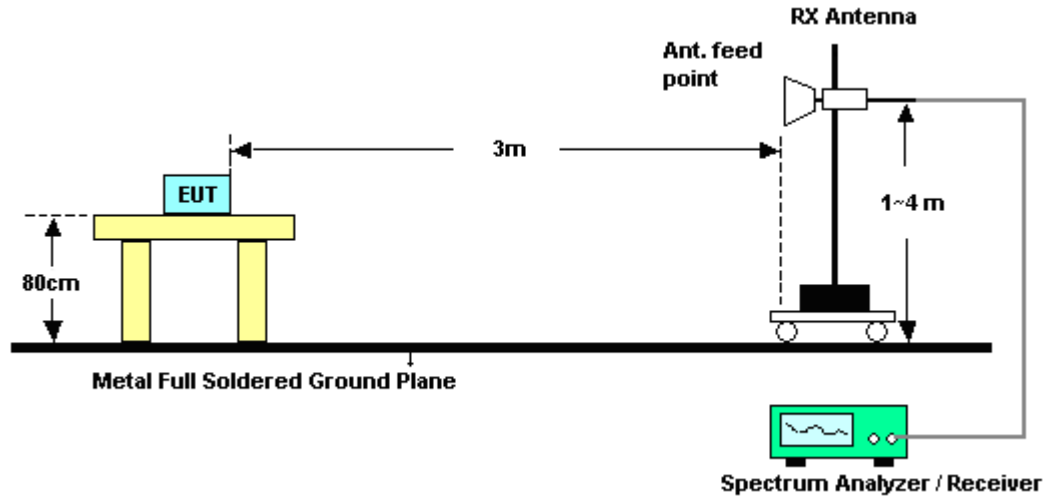


For radiated emissions from 30MHz to 1GHz





For radiated emissions above 1GHz



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

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



3.5.6 Test Result of Radiated Spurious at Band Edges

<Sample 1>

Test Mode :	802.11b	Temperature :	22~23°C
Test Band :	Low	Relative Humidity :	40~41%
Test Channel :	01	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2385.33	54.72	-19.28	74	49.43	32.83	3.16	30.7	100	125	Peak
2390	42.78	-11.22	54	37.43	32.86	3.17	30.68	100	125	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.92	55.54	-18.46	74	50.19	32.86	3.17	30.68	103	8	Peak
2390	42.58	-11.42	54	37.23	32.86	3.17	30.68	103	8	Average

Test Mode :	802.11b	Temperature :	22~23°C
Test Band :	High	Relative Humidity :	40~41%
Test Channel :	11	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2484.07	57.6	-16.4	74	51.97	33.01	3.22	30.6	118	127	Peak
2483.5	44.82	-9.18	54	39.19	33.01	3.22	30.6	118	127	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.56	58.72	-15.28	74	53.09	33.01	3.22	30.6	100	295	Peak
2483.5	45.72	-8.28	54	40.09	33.01	3.22	30.6	100	295	Average



Test Mode :	802.11g	Temperature :	22~23°C
Test Band :	Low	Relative Humidity :	40~41%
Test Channel :	01	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2390	60.69	-13.31	74	55.34	32.86	3.17	30.68	100	122	Peak
2390	43.3	-10.7	54	37.95	32.86	3.17	30.68	100	122	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.29	62.26	-11.74	74	56.91	32.86	3.17	30.68	102	280	Peak
2390	43.44	-10.56	54	38.09	32.86	3.17	30.68	102	280	Average

Test Mode :	802.11g	Temperature :	22~23°C
Test Band :	High	Relative Humidity :	40~41%
Test Channel :	11	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2484.07	67.61	-6.39	74	61.98	33.01	3.22	30.6	115	127	Peak
2483.53	43.87	-10.13	54	38.24	33.01	3.22	30.6	115	127	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.59	68.95	-5.05	74	63.32	33.01	3.22	30.6	100	249	Peak
2483.5	44.69	-9.31	54	39.06	33.01	3.22	30.6	100	249	Average



Test Mode :	802.11n HT20	Temperature :	22~23°C
Test Band :	Low	Relative Humidity :	40~41%
Test Channel :	01	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.11	63.69	-10.31	74	58.34	32.86	3.17	30.68	100	120	Peak
2390	43.88	-10.12	54	38.53	32.86	3.17	30.68	100	120	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.92	65.38	-8.62	74	60.03	32.86	3.17	30.68	103	283	Peak
2390	44.96	-9.04	54	39.61	32.86	3.17	30.68	103	283	Average

Test Mode :	802.11n HT20	Temperature :	22~23°C
Test Band :	High	Relative Humidity :	40~41%
Test Channel :	11	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.98	67.76	-6.24	74	62.13	33.01	3.22	30.6	100	113	Peak
2483.59	41.05	-12.95	54	35.42	33.01	3.22	30.6	100	113	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2484.16	66.43	-7.57	74	60.8	33.01	3.22	30.6	100	284	Peak
2483.71	41.68	-12.32	54	36.05	33.01	3.22	30.6	100	284	Average



Test Mode :	802.11n HT40	Temperature :	22~23°C
Test Band :	Low	Relative Humidity :	40~41%
Test Channel :	03	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2390	60.88	-13.12	74	55.53	32.86	3.17	30.68	100	128	Peak
2390	42.54	-11.46	54	37.19	32.86	3.17	30.68	100	128	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2390	62.13	-11.87	74	56.78	32.86	3.17	30.68	127	282	Peak
2390	43.79	-10.21	54	38.44	32.86	3.17	30.68	127	282	Average

Test Mode :	802.11n HT40	Temperature :	22~23°C
Test Band :	High	Relative Humidity :	40~41%
Test Channel :	09	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2487.46	62.95	-11.05	74	57.32	33.01	3.22	30.6	141	127	Peak
2483.5	44.47	-9.53	54	38.84	33.01	3.22	30.6	141	127	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2486.71	63.94	-10.06	74	58.31	33.01	3.22	30.6	101	303	Peak
2485.42	45.98	-8.02	54	40.35	33.01	3.22	30.6	101	303	Average



<Sample 2>

Test Mode :	802.11g	Temperature :	22~23°C
Test Band :	High	Relative Humidity :	40~41%
Test Channel :	11	Test Engineer :	Jun Liu

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.74	69.6	-4.4	74	63.97	33.01	3.22	30.6	122	62	Peak
2483.53	42.97	-11.03	54	37.34	33.01	3.22	30.6	122	62	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.83	68.95	-5.05	74	63.32	33.01	3.22	30.6	100	302	Peak
2483.5	43.38	-10.62	54	37.75	33.01	3.22	30.6	100	302	Average

### 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.

<Sample 1>

<b>Test Mode :</b>	802.11b	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	<ol style="list-style-type: none"> <li>1. 2412 MHz is fundamental signal which can be ignored.</li> <li>2. 7236 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. For example, 109.28 dB<math>\mu</math>V/m - 20dB = 89.28 dB<math>\mu</math>V/m.</li> <li>3. Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

Frequency ( MHz )	Level ( dB $\mu$ V/m )	Over Limit ( dB )	Limit Line ( dB $\mu$ V/m )	Read Level (dB $\mu$ V)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2412	109.28	-	-	103.87	32.89	3.18	30.66	100	125	Peak
2412	103.7	-	-	98.29	32.89	3.18	30.66	100	125	Average
4824	50.48	-23.52	74	40.05	35.17	4.58	29.32	100	51	Peak
7236	52.77	-36.51	89.28	41.12	36.18	5.62	30.15	100	24	Peak



<b>Test Mode :</b>	802.11b	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2412 MHz is fundamental signal which can be ignored. 2. 7236 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level. 3. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2412	110.55	-	-	105.14	32.89	3.18	30.66	103	8	Peak
2412	104.95	-	-	99.54	32.89	3.18	30.66	103	8	Average
4824	50.76	-23.24	74	40.33	35.17	4.58	29.32	100	258	Peak
7236	53.14	-37.41	90.55	41.49	36.18	5.62	30.15	100	92	Peak





<b>Test Mode :</b>	802.11b	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2437	109.86	-	-	104.34	32.95	3.2	30.63	118	126	Peak
2437	104.44	-	-	98.92	32.95	3.2	30.63	118	126	Average
4874	50.09	-23.91	74	39.63	35.18	4.6	29.32	100	15	Peak
7312	53	-21	74	41.34	36.2	5.64	30.18	100	162	Peak

<b>Test Mode :</b>	802.11b	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2437	111.33	-	-	105.81	32.95	3.2	30.63	103	250	Peak
2437	105.77	-	-	100.25	32.95	3.2	30.63	103	250	Average
4874	50.56	-23.44	74	40.1	35.18	4.6	29.32	100	16	Peak
7312	52.64	-21.36	74	40.98	36.2	5.64	30.18	100	91	Peak



<b>Test Mode :</b>	802.11b	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2462	109.13	-	-	103.56	32.98	3.21	30.62	118	127	Peak
2462	103.64	-	-	98.07	32.98	3.21	30.62	118	127	Average
4924	50.94	-23.06	74	40.45	35.19	4.61	29.31	100	167	Peak
7386	52.93	-21.07	74	41.25	36.24	5.66	30.22	100	19	Peak

<b>Test Mode :</b>	802.11b	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2462	110.37	-	-	104.8	32.98	3.21	30.62	102	295	Peak
2462	104.79	-	-	99.22	32.98	3.21	30.62	102	295	Average
4924	50	-24	74	39.51	35.19	4.61	29.31	100	261	Peak
7386	53.09	-20.91	74	41.41	36.24	5.66	30.22	100	79	Peak



<b>Test Mode :</b>	802.11g	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	<ol style="list-style-type: none"> <li>2412 MHz is fundamental signal which can be ignored.</li> <li>7236 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2412	107.31	-	-	101.9	32.89	3.18	30.66	100	122	Peak
2412	95.64	-	-	90.23	32.89	3.18	30.66	100	122	Average
4824	50.7	-23.3	74	40.27	35.17	4.58	29.32	100	59	Peak
7236	53.68	-33.63	87.31	42.03	36.18	5.62	30.15	100	132	Peak

<b>Test Mode :</b>	802.11g	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	<ol style="list-style-type: none"> <li>2412 MHz is fundamental signal which can be ignored.</li> <li>7236 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2412	107.31	-	-	101.9	32.89	3.18	30.66	102	280	Peak
2412	96.63	-	-	91.22	32.89	3.18	30.66	102	280	Average
4824	50.26	-23.74	74	39.83	35.17	4.58	29.32	100	49	Peak
7236	53.51	-33.8	87.31	41.86	36.18	5.62	30.15	100	26	Peak



<b>Test Mode :</b>	802.11g	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2437	109.86	-	-	104.34	32.95	3.2	30.63	122	129	Peak
2437	99.12	-	-	93.6	32.95	3.2	30.63	122	129	Average
4874	50.94	-23.06	74	40.48	35.18	4.6	29.32	100	19	Peak
7312	52.89	-21.11	74	41.23	36.2	5.64	30.18	100	91	Peak

<b>Test Mode :</b>	802.11g	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2437	110.17	-	-	104.65	32.95	3.2	30.63	102	270	Peak
2437	99.75	-	-	94.23	32.95	3.2	30.63	102	270	Average
4874	50.01	-23.99	74	39.55	35.18	4.6	29.32	100	261	Peak
7312	53.03	-20.97	74	41.37	36.2	5.64	30.18	100	261	Peak



<b>Test Mode :</b>	802.11g	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2462	104.58	-	-	99.01	32.98	3.21	30.62	121	128	Peak
2462	93.76	-	-	88.19	32.98	3.21	30.62	121	128	Average
4924	50.11	-23.89	74	39.62	35.19	4.61	29.31	100	14	Peak
7386	53.41	-20.59	74	41.73	36.24	5.66	30.22	100	261	Peak

<b>Test Mode :</b>	802.11g	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2462	105.63	-	-	100.06	32.98	3.21	30.62	100	249	Peak
2462	94.58	-	-	89.01	32.98	3.21	30.62	100	249	Average
4924	50.6	-23.4	74	40.11	35.19	4.61	29.31	100	91	Peak
7386	53.94	-20.06	74	42.26	36.24	5.66	30.22	100	26	Peak



<b>Test Mode :</b>	2.4GHz 802.11n HT20	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	<ol style="list-style-type: none"> <li>2412 MHz is fundamental signal which can be ignored.</li> <li>7236 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2412	106.65	-	-	101.24	32.89	3.18	30.66	100	120	Peak
2412	95.34	-	-	89.93	32.89	3.18	30.66	100	120	Average
4824	50.41	-23.59	74	39.98	35.17	4.58	29.32	100	46	Peak
7236	53.64	-33.01	86.65	41.99	36.18	5.62	30.15	100	261	Peak

<b>Test Mode :</b>	2.4GHz 802.11n HT20	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	<ol style="list-style-type: none"> <li>2412 MHz is fundamental signal which can be ignored.</li> <li>7236 MHz is not within a restricted band, and its limit line is 20dB below the highest emission level.</li> <li>Average measurement was not performed if peak level went lower than the average limit.</li> </ol>		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2412	107.51	-	-	102.1	32.89	3.18	30.66	103	283	Peak
2412	96.46	-	-	91.05	32.89	3.18	30.66	103	283	Average
4824	50.42	-23.58	74	39.99	35.17	4.58	29.32	100	79	Peak
7236	53.6	-33.91	87.51	41.95	36.18	5.62	30.15	100	261	Peak



<b>Test Mode :</b>	2.4GHz 802.11n HT20	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2437	109.21	-	-	103.69	32.95	3.2	30.63	119	126	Peak
2437	98.17	-	-	92.65	32.95	3.2	30.63	119	126	Average
4874	50.47	-23.53	74	40.01	35.18	4.6	29.32	100	56	Peak
7312	53.96	-20.04	74	42.3	36.2	5.64	30.18	100	16	Peak

<b>Test Mode :</b>	2.4GHz 802.11n HT20	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2437	110.03	-	-	104.51	32.95	3.2	30.63	126	267	Peak
2437	98.96	-	-	93.44	32.95	3.2	30.63	126	267	Average
4874	50.27	-23.73	74	39.81	35.18	4.6	29.32	100	15	Peak
7312	52.91	-21.09	74	41.25	36.2	5.64	30.18	100	126	Peak



<b>Test Mode :</b>	2.4GHz 802.11n HT20	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2462	105.3	-	-	99.73	32.98	3.21	30.62	117	131	Peak
2462	94.29	-	-	88.72	32.98	3.21	30.62	117	131	Average
4924	50.07	-23.93	74	39.58	35.19	4.61	29.31	100	94	Peak
7386	52.44	-21.56	74	40.76	36.24	5.66	30.22	100	25	Peak

<b>Test Mode :</b>	2.4GHz 802.11n HT20	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2462	106.6	-	-	101.03	32.98	3.21	30.62	100	337	Peak
2462	94.84	-	-	89.27	32.98	3.21	30.62	100	337	Average
4924	50.17	-23.83	74	39.68	35.19	4.61	29.31	100	164	Peak
7386	53.52	-20.48	74	41.84	36.24	5.66	30.22	100	19	Peak





<b>Test Mode :</b>	2.4GHz 802.11n HT40	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	03	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2422 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2422	101.61	-	-	96.15	32.92	3.19	30.65	100	128	Peak
2422	90.97	-	-	85.51	32.92	3.19	30.65	100	128	Average
4844	50.8	-23.2	74	40.35	35.18	4.59	29.32	100	129	Peak
7266	53.16	-20.84	74	41.5	36.19	5.63	30.16	100	162	Peak

<b>Test Mode :</b>	2.4GHz 802.11n HT40	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	03	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2422 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2422	101.68	-	-	96.22	32.92	3.19	30.65	151	282	Peak
2422	90.07	-	-	84.61	32.92	3.19	30.65	151	282	Average
4844	50.47	-23.53	74	40.02	35.18	4.59	29.32	100	46	Peak
7266	52.97	-21.03	74	41.31	36.19	5.63	30.16	100	169	Peak



<b>Test Mode :</b>	2.4GHz 802.11n HT40	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2437	106.21	-	-	100.69	32.95	3.2	30.63	116	126	Peak
2437	94.84	-	-	89.32	32.95	3.2	30.63	116	126	Average
4874	50.52	-23.48	74	40.06	35.18	4.6	29.32	100	16	Peak
7312	53.5	-20.5	74	41.84	36.2	5.64	30.18	100	312	Peak

<b>Test Mode :</b>	2.4GHz 802.11n HT40	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2437 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2437	106.48	-	-	100.96	32.95	3.2	30.63	105	274	Peak
2437	96.19	-	-	90.67	32.95	3.2	30.63	105	274	Average
4874	50.88	-23.12	74	40.42	35.18	4.6	29.32	100	54	Peak
7312	52.79	-21.21	74	41.13	36.2	5.64	30.18	100	92	Peak



<b>Test Mode :</b>	2.4GHz 802.11n HT40	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	09	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	1. 2452 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2452	100.31	-	-	94.79	32.95	3.2	30.63	113	128	Peak
2452	87.44	-	-	81.92	32.95	3.2	30.63	113	128	Average
4904	50.48	-23.52	74	40	35.19	4.61	29.32	100	164	Peak
7356	53.28	-20.72	74	41.62	36.22	5.65	30.21	100	95	Peak

<b>Test Mode :</b>	2.4GHz 802.11n HT40	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	09	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2452 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2452	101.48	-	-	95.96	32.95	3.2	30.63	100	257	Peak
2452	89.5	-	-	83.98	32.95	3.2	30.63	100	257	Average
4904	50.94	-23.06	74	40.46	35.19	4.61	29.32	100	92	Peak
7356	53.89	-20.11	74	42.23	36.22	5.65	30.21	100	64	Peak



<Sample 2>

Test Mode :	802.11g	Temperature :	22~23°C
Test Channel :	11	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
92.08	27.67	-15.83	43.5	51.06	9.35	0.88	33.62	-	-	Peak
201.69	27.83	-15.67	43.5	51	9.08	1.31	33.56	100	162	Peak
261.83	28.5	-17.5	46	48.25	12.19	1.49	33.43	-	-	Peak
280.26	27.96	-18.04	46	47.15	12.66	1.55	33.4	-	-	Peak
406.36	22.73	-23.27	46	38.15	16.03	1.85	33.3	-	-	Peak
944.71	28.14	-17.86	46	37.06	20.71	2.81	32.44	-	-	Peak
2462	105.65	-	-	100.08	32.98	3.21	30.62	118	62	Peak
2462	94.77	-	-	89.2	32.98	3.21	30.62	118	62	Average
4924	50.72	-23.28	74	40.23	35.19	4.61	29.31	100	162	Peak
7386	53.92	-20.08	74	42.24	36.24	5.66	30.22	100	28	Peak



<b>Test Mode :</b>	802.11g	<b>Temperature :</b>	22~23°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	40~41%
<b>Test Engineer :</b>	Jun Liu	<b>Polarization :</b>	Vertical
<b>Remark :</b>	1. 2462 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit.		

Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
32.91	33.69	-6.31	40	51.41	16.04	-0.17	33.59	100	132	Peak
49.4	28.16	-11.84	40	53.35	7.75	0.65	33.59	-	-	Peak
91.11	28.54	-14.96	43.5	52.16	9.12	0.88	33.62	-	-	Peak
199.75	22.72	-20.78	43.5	45.98	9	1.3	33.56	-	-	Peak
787.57	22.68	-23.32	46	32.96	19.86	2.52	32.66	-	-	Peak
939.86	31.61	-14.39	46	40.55	20.69	2.81	32.44	-	-	Peak
2462	105.21	-	-	99.64	32.98	3.21	30.62	100	302	Peak
2462	94.03	-	-	88.46	32.98	3.21	30.62	100	302	Average
4924	50.51	-23.49	74	40.02	35.19	4.61	29.31	100	58	Peak
7386	53.24	-20.76	74	41.56	36.24	5.66	30.22	100	15	Peak

## 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 (MHz)	Conducted Limit (dB $\mu$ V)	
	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.

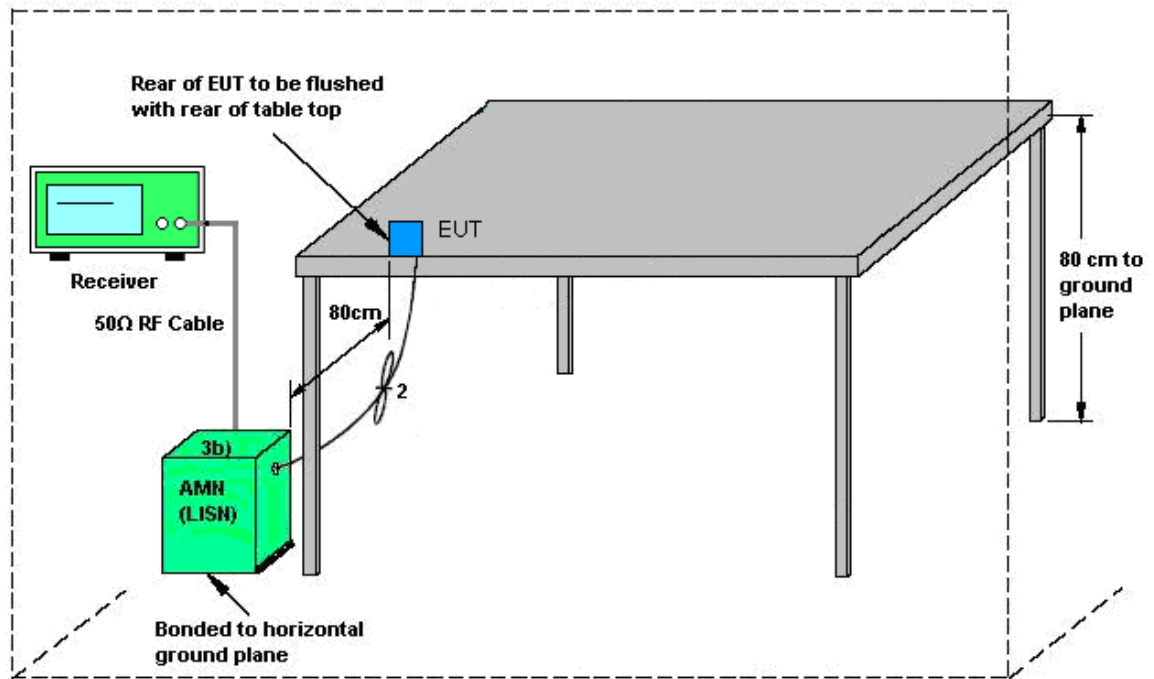
### 3.6.2 Measuring Instruments

See list of measuring instruments 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.

### 3.6.4 Test Setup

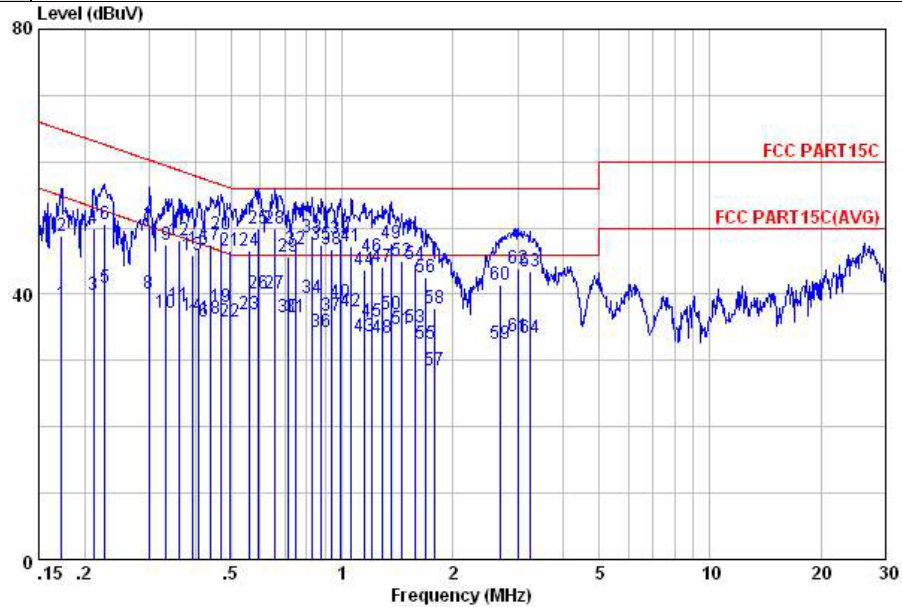


AMN = Artificial mains network (LISN)  
 AE = Associated equipment  
 EUT = Equipment under test  
 ISN = Impedance stabilization network



3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Harvey Tang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Bluetooth Link + WLAN Link + USB Cable 1 (Charging from Adapter) + Earphone for Sample 1		



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

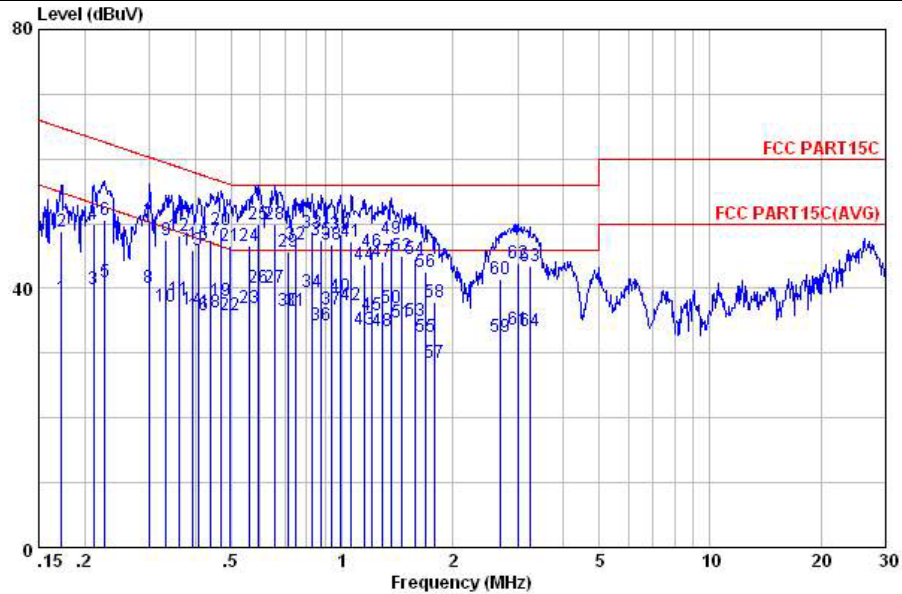
mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.17	38.51	-16.30	54.81	26.39	1.48	10.64	Average
2	0.17	48.81	-16.00	64.81	36.69	1.48	10.64	QP
3	0.21	39.94	-13.20	53.14	28.41	0.97	10.56	Average
4	0.21	49.94	-13.20	63.14	38.41	0.97	10.56	QP
5	0.23	41.08	-11.49	52.57	29.60	0.94	10.54	Average
6	0.23	50.58	-11.99	62.57	39.10	0.94	10.54	QP
7	0.30	50.09	-10.19	60.28	39.00	0.70	10.39	QP
8	0.30	40.19	-10.09	50.28	29.10	0.70	10.39	Average
9	0.33	47.44	-11.96	59.40	36.60	0.50	10.34	QP
10	0.33	37.24	-12.16	49.40	26.40	0.50	10.34	Average
11	0.36	38.31	-10.38	48.69	27.60	0.40	10.31	Average
12	0.36	48.21	-10.48	58.69	37.50	0.40	10.31	QP
13	0.39	45.92	-12.11	58.03	35.30	0.33	10.29	QP
14	0.39	36.72	-11.31	48.03	26.10	0.33	10.29	Average
15	0.41	46.78	-10.90	57.68	36.20	0.30	10.28	QP
16	0.41	35.98	-11.70	47.68	25.40	0.30	10.28	Average
17	0.44	47.43	-9.64	57.07	36.90	0.26	10.27	QP
18	0.44	36.33	-10.74	47.07	25.80	0.26	10.27	Average
19	0.47	38.19	-8.30	46.49	27.69	0.23	10.27	Average
20	0.47	48.99	-7.50	56.49	38.49	0.23	10.27	QP
21	0.50	46.67	-9.38	56.05	36.21	0.20	10.26	QP
22	0.50	35.87	-10.18	46.05	25.41	0.20	10.26	Average
23	0.56	36.95	-9.05	46.00	26.50	0.20	10.25	Average
24	0.56	46.65	-9.35	56.00	36.20	0.20	10.25	QP
25	0.59	49.84	-6.16	56.00	39.40	0.20	10.24	QP
26	0.59	40.14	-5.86	46.00	29.70	0.20	10.24	Average
27	0.66	40.22	-5.78	46.00	29.80	0.20	10.22	Average
28	0.66	50.02	-5.98	56.00	39.60	0.20	10.22	QP





Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Harvey Tang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Bluetooth Link + WLAN Link + USB Cable 1 (Charging from Adapter) + Earphone for Sample 1		



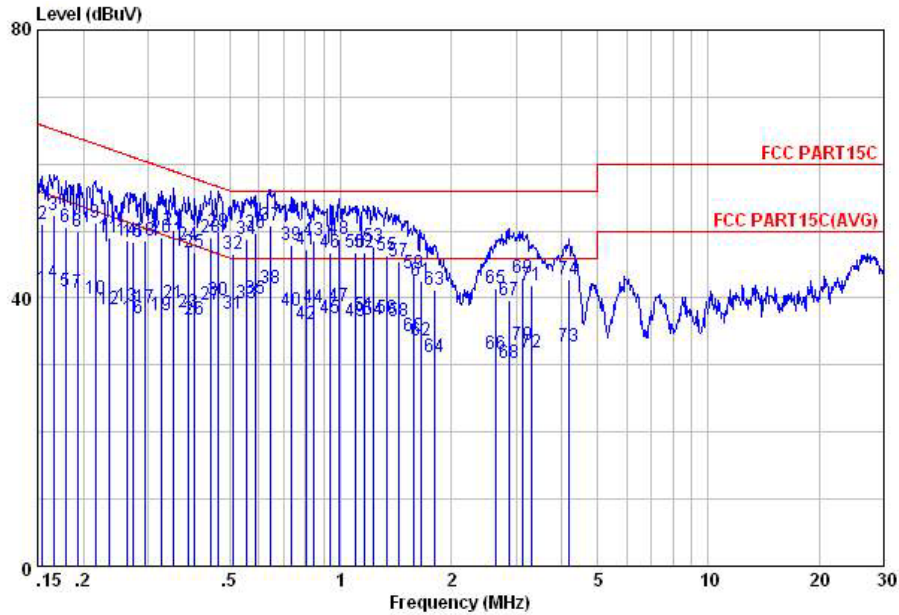
Site : C001-KS  
 Condition: FCC PART15C LISN-L20130306 LINE

mode : Mode 1

	Freq	Level	Over Limit	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
29	0.71	45.61	-10.39	56.00	35.20	0.20	10.21	QP
30	0.71	36.51	-9.49	46.00	26.10	0.20	10.21	Average
31	0.75	36.49	-9.51	46.00	26.10	0.19	10.20	Average
32	0.75	46.89	-9.11	56.00	36.50	0.19	10.20	QP
33	0.83	48.55	-7.45	56.00	38.21	0.15	10.19	QP
34	0.83	39.45	-6.55	46.00	29.11	0.15	10.19	Average
35	0.88	47.42	-8.58	56.00	37.10	0.13	10.19	QP
36	0.88	34.42	-11.58	46.00	24.10	0.13	10.19	Average
37	0.93	36.70	-9.30	46.00	26.41	0.11	10.18	Average
38	0.93	46.70	-9.30	56.00	36.41	0.11	10.18	QP
39	0.99	48.38	-7.62	56.00	38.10	0.10	10.18	QP
40	0.99	38.68	-7.32	46.00	28.40	0.10	10.18	Average
41	1.06	47.28	-8.72	56.00	37.00	0.10	10.18	QP
42	1.06	37.38	-8.62	46.00	27.10	0.10	10.18	Average
43	1.15	33.68	-12.32	46.00	23.40	0.10	10.18	Average
44	1.15	43.58	-12.42	56.00	33.30	0.10	10.18	QP
45	1.20	35.88	-10.12	46.00	25.60	0.10	10.18	Average
46	1.20	45.78	-10.22	56.00	35.50	0.10	10.18	QP
47	1.29	44.18	-11.82	56.00	33.90	0.10	10.18	QP
48	1.29	33.38	-12.62	46.00	23.10	0.10	10.18	Average
49	1.37	47.68	-8.32	56.00	37.40	0.10	10.18	QP
50	1.37	37.08	-8.92	46.00	26.80	0.10	10.18	Average
51	1.46	34.79	-11.21	46.00	24.50	0.10	10.19	Average
52	1.46	44.99	-11.01	56.00	34.70	0.10	10.19	QP
53	1.58	34.89	-11.11	46.00	24.60	0.10	10.19	Average
54	1.58	44.49	-11.51	56.00	34.20	0.10	10.19	QP
55	1.69	32.59	-13.41	46.00	22.30	0.10	10.19	Average
56	1.69	42.59	-13.41	56.00	32.30	0.10	10.19	QP
57	1.79	28.49	-17.51	46.00	18.20	0.10	10.19	Average
58	1.79	37.89	-18.11	56.00	27.60	0.10	10.19	QP
59	2.69	32.63	-13.37	46.00	22.30	0.12	10.21	Average
60	2.69	41.43	-14.57	56.00	31.10	0.12	10.21	QP
61	3.01	33.76	-12.24	46.00	23.40	0.14	10.22	Average
62	3.01	43.96	-12.04	56.00	33.60	0.14	10.22	QP
63	3.24	43.38	-12.62	56.00	32.99	0.16	10.23	QP
64	3.24	33.48	-12.52	46.00	23.09	0.16	10.23	Average



Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Harvey Tang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Link + WLAN Link + USB Cable 1 (Charging from Adapter) + Earphone for Sample 1		



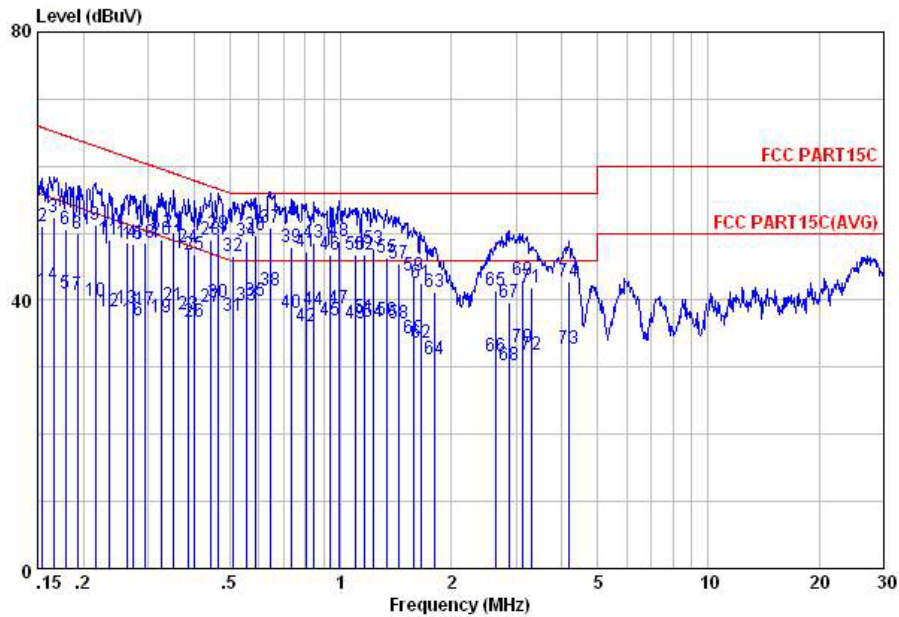
Site : C001-KS  
 Condition: FCC PART15C LISN-N20130306 NEUTRAL

mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.15	41.42	-14.32	55.74	28.90	1.83	10.69	Average
2	0.15	51.12	-14.62	65.74	38.60	1.83	10.69	QP
3	0.17	52.28	-12.88	65.16	39.99	1.63	10.66	QP
4	0.17	42.38	-12.78	55.16	30.09	1.63	10.66	Average
5	0.18	41.03	-13.52	54.55	29.10	1.31	10.62	Average
6	0.18	50.53	-14.02	64.55	38.60	1.31	10.62	QP
7	0.19	40.78	-13.15	53.93	29.11	1.08	10.59	Average
8	0.19	49.88	-14.05	63.93	38.21	1.08	10.59	QP
9	0.22	51.33	-11.68	63.01	39.80	0.97	10.56	QP
10	0.22	39.93	-13.08	53.01	28.40	0.97	10.56	Average
11	0.24	48.96	-13.30	62.26	37.50	0.93	10.53	QP
12	0.24	38.26	-14.00	52.26	26.80	0.93	10.53	Average
13	0.26	38.75	-12.63	51.38	27.41	0.86	10.48	Average
14	0.26	48.55	-12.83	61.38	37.21	0.86	10.48	QP
15	0.27	48.28	-12.75	61.03	37.00	0.83	10.45	QP
16	0.27	36.88	-14.15	51.03	25.60	0.83	10.45	Average
17	0.29	38.46	-11.95	50.41	27.30	0.76	10.40	Average
18	0.29	48.66	-11.75	60.41	37.50	0.76	10.40	QP
19	0.33	37.53	-12.00	49.53	26.59	0.59	10.35	Average
20	0.33	48.93	-10.60	59.53	37.99	0.59	10.35	QP
21	0.35	39.22	-9.69	48.91	28.40	0.50	10.32	Average
22	0.35	50.22	-8.69	58.91	39.40	0.50	10.32	QP
23	0.39	37.81	-10.31	48.12	27.10	0.42	10.29	Average
24	0.39	47.91	-10.21	58.12	37.20	0.42	10.29	QP
25	0.40	46.88	-10.93	57.81	36.20	0.40	10.28	QP
26	0.40	36.78	-11.03	47.81	26.10	0.40	10.28	Average
27	0.44	39.02	-8.00	47.02	28.40	0.35	10.27	Average
28	0.44	48.92	-8.10	57.02	38.30	0.35	10.27	QP



Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Harvey Tang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Link + WLAN Link + USB Cable 1 (Charging from Adapter) + Earphone for Sample 1		



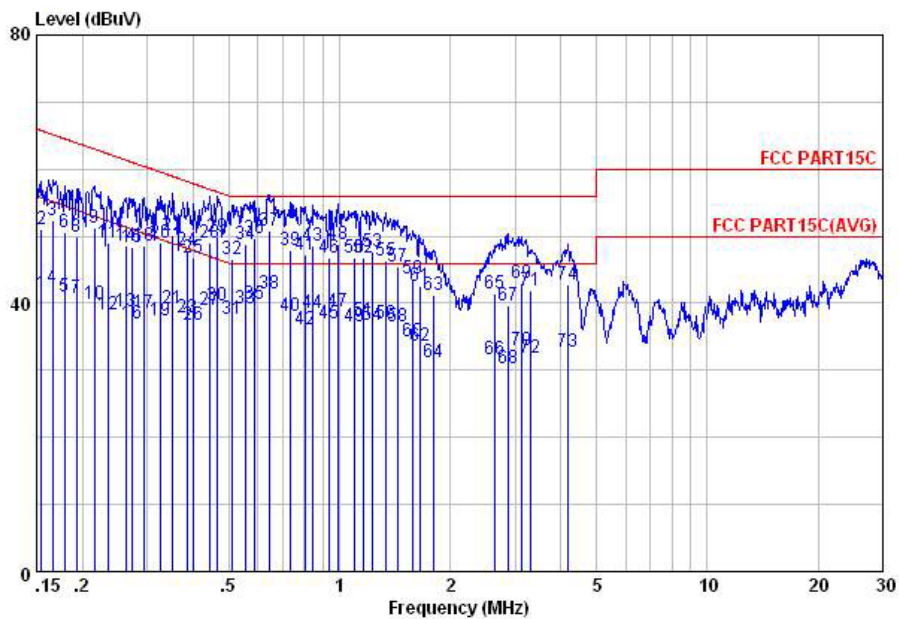
Site : C001-KS  
 Condition: FCC PART15C LISN-M20130306 NEUTRAL

mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
29	0.46	49.90	-6.73	56.63	39.30	0.33	10.27	QP
30	0.46	39.70	-6.93	46.63	29.10	0.33	10.27	Average
31	0.51	37.76	-8.24	46.00	27.20	0.30	10.26	Average
32	0.51	46.66	-9.34	56.00	36.10	0.30	10.26	QP
33	0.56	39.23	-6.77	46.00	28.71	0.27	10.25	Average
34	0.56	48.83	-7.17	56.00	38.31	0.27	10.25	QP
35	0.59	39.80	-6.20	46.00	29.31	0.25	10.24	Average
36	0.59	49.80	-6.20	56.00	39.31	0.25	10.24	QP
37	0.64	50.75	-5.25	56.00	40.30	0.22	10.23	QP
38	0.64	41.45	-4.55	46.00	31.00	0.22	10.23	Average
39	0.73	48.00	-8.00	56.00	37.60	0.19	10.21	QP
40	0.73	38.20	-7.80	46.00	27.80	0.19	10.21	Average
41	0.81	47.26	-8.74	56.00	36.90	0.16	10.20	QP
42	0.81	36.16	-9.84	46.00	25.80	0.16	10.20	Average
43	0.85	48.63	-7.37	56.00	38.30	0.14	10.19	QP
44	0.85	38.53	-7.47	46.00	28.20	0.14	10.19	Average
45	0.94	37.10	-8.90	46.00	26.81	0.11	10.18	Average
46	0.94	46.90	-9.10	56.00	36.61	0.11	10.18	QP
47	0.99	38.68	-7.32	46.00	28.40	0.10	10.18	Average
48	0.99	48.78	-7.22	56.00	38.50	0.10	10.18	QP
49	1.10	36.58	-9.42	46.00	26.30	0.10	10.18	Average
50	1.10	46.78	-9.22	56.00	36.50	0.10	10.18	QP
51	1.16	37.38	-8.62	46.00	27.10	0.10	10.18	Average
52	1.16	46.88	-9.12	56.00	36.60	0.10	10.18	QP
53	1.23	47.58	-8.42	56.00	37.30	0.10	10.18	QP
54	1.23	36.78	-9.22	46.00	26.50	0.10	10.18	Average
55	1.34	46.28	-9.72	56.00	36.00	0.10	10.18	QP
56	1.34	37.08	-8.92	46.00	26.80	0.10	10.18	Average



Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Harvey Tang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Link + WLAN Link + USB Cable 1 (Charging from Adapter) + Earphone for Sample 1		



Site : C001-KS  
 Condition: FCC PART15C LISN-M20130306 NEUTRAL

mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
57	1.43	45.49	-10.51	56.00	35.20	0.10	10.19	QP
58	1.43	36.59	-9.41	46.00	26.30	0.10	10.19	Average
59	1.59	43.79	-12.21	56.00	33.50	0.10	10.19	QP
60	1.59	34.39	-11.61	46.00	24.10	0.10	10.19	Average
61	1.65	42.59	-13.41	56.00	32.30	0.10	10.19	QP
62	1.65	33.59	-12.41	46.00	23.30	0.10	10.19	Average
63	1.80	41.29	-14.71	56.00	31.00	0.10	10.19	QP
64	1.80	31.29	-14.71	46.00	21.00	0.10	10.19	Average
65	2.65	41.53	-14.47	56.00	31.20	0.12	10.21	QP
66	2.65	31.73	-14.27	46.00	21.40	0.12	10.21	Average
67	2.87	39.65	-16.35	56.00	29.30	0.13	10.22	QP
68	2.87	30.25	-15.75	46.00	19.90	0.13	10.22	Average
69	3.12	42.97	-13.03	56.00	32.59	0.15	10.23	QP
70	3.12	32.87	-13.13	46.00	22.49	0.15	10.23	Average
71	3.31	41.89	-14.11	56.00	31.50	0.16	10.23	QP
72	3.31	31.89	-14.11	46.00	21.50	0.16	10.23	Average
73	4.18	32.83	-13.17	46.00	22.40	0.19	10.24	Average
74	4.18	42.73	-13.27	56.00	32.30	0.19	10.24	QP



## **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 Connected Construction**

Non-standard connector 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.

## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 29, 2012	Aug. 10, 2013~ Aug. 18, 2013	Dec. 28, 2013	Conducted (TH01-KS)
Power Meter	Agilent	E4416A	MY45101555	N/A	Aug. 22, 2012	Aug. 10, 2013~ Aug. 18, 2013	Aug. 21, 2013	Conducted (TH01-KS)
Power Sensor	Agilent	E9327A	MY44421198	N/A	Aug. 22, 2012	Aug. 10, 2013~ Aug. 18, 2013	Aug. 21, 2013	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Aug. 02, 2013~ Aug. 22, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 23, 2013	Aug. 02, 2013~ Aug. 22, 2013	May 22, 2014	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Aug. 02, 2013~ Aug. 22, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 22, 2012	Aug. 02, 2013~ Aug. 22, 2013	Oct. 21, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2013	Aug. 02, 2013~ Aug. 22, 2013	Jan. 05, 2014	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	N/A	Aug. 02, 2013~ Aug. 22, 2013	N/A	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	N/A	Aug. 02, 2013~ Aug. 22, 2013	N/A	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	May 23, 2013	Aug. 02, 2013~ Aug. 22, 2013	May 22, 2014	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	Aug. 02, 2013~ Aug. 22, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701023	1GHz~18GHz	Nov. 07, 2012	Aug. 02, 2013~ Aug. 22, 2013	Nov. 06, 2013	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz~40GHz	Nov. 23, 2012	Aug. 02, 2013~ Aug. 22, 2013	Nov. 22, 2013	Radiation (03CH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	May 23, 2013	Aug. 20, 2013	May 22, 2014	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	60103	9kHz~30MHz	Dec. 29, 2012	Aug. 20, 2013	Dec. 28, 2013	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	60105	9kHz~30MHz	Dec. 29, 2012	Aug. 20, 2013	Dec. 28, 2013	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	N/A	Nov. 15, 2012	Aug. 20, 2013	Nov. 14, 2013	Conduction (CO01-KS)



## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.26
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### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.54
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### Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.72
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