

FCC RF Test Report

APPLICANT : CT Asia

**EQUIPMENT**: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Life View MARKETING NAME : Life View

FCC ID : YHLBLULIFEVIEW

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jun. 26, 2013 and completely tested on Jul. 06, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

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: Rev. 01

Report Issued Date: Jul. 17, 2013

Report No.: FR362605C

## SPORTON INTERNATIONAL (SHENZHEN) INC.

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



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**REVISION HISTORY** 

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR362605C	Rev. 01	Initial issue of report	Jul. 17, 2013

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**SUMMARY OF TEST RESULT** 

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	45 247/4\	Conducted Band Edges	2040-	Pass	-
3.4	15.247(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 2.44 dB at 2390.000 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.39 dB at 0.450 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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## 1 General Description

## 1.1 Applicant

**CT** Asia

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

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## 1.2 Manufacturer

#### Tinno mobile

Floor2-2, H-3 Building east industrial zoom, OCT east, Nanshan, Shenzhen

## 1.3 Feature of Equipment Under Test

Product Feature							
Equipment	Mobile Phone						
Brand Name	BLU						
Model Name	Life View						
Marketing Name	Life View						
FCC ID	YHLBLULIFEVIEW						
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/DC-HSDPA /WLAN 11bgn/Bluetooth 2.1/3.0/4.0						
HW Version	V1.1						
SW Version	V03						
EUT Stage	Identical Prototype						

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

## 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard						
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz					
	802.11b : 13.51 dBm (0.0224 W)					
Maximum Output Power to Antenna	802.11g : 18.47 dBm (0.0703 W)					
Maximum Output Power to Antenna	802.11n HT20 : 17.13 dBm (0.0516 W)					
	802.11n HT40 : 18.35 dBm (0.0684 W)					
Antenna Type	IFA Antenna type with gain -2 dBi					
Type of Modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)					
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)					

## 1.5 Modification of EUT

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

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## 1.6 Testing Site

Test Site	SPORTON II	SPORTON INTERNATIONAL (SHENZHEN) INC.						
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.							
	TEL: +86-755- 3320-2398							
Toot Site No		Sporton Site N	lo.	FCC/IC Registration No.				
Test Site No.	TH01-SZ	03CH01-SZ	CO01-SZ	831040/4086F-1				

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 C63.10-2009

#### 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 (Z plane) were recorded in this report.

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

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

## 2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1	2412	7	2442
	2	2417	8	2447
2400-2483.5 MHz	3	2422	9	2452
2400-2403.5 IVITZ	4	2427	10	2457
	5	2432	11	2462
	6	2437		

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2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate as following table and the highest (peak) power data rates were chosen for full test in the following tables.

		2.4GHz 802.11b RF Power (dBm)  requency DSSS Data Rate							
Channel	Frequency								
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps				
CH 01	2412 MHz	12.57	12.4	12.16	12.2				
CH 06	2437 MHz	<mark>13.51</mark>	13.26	13.01	12.84				
CH 11	2462 MHz	13.38	13.31	13.02	13.13				

				RF Powe	r (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	16.22	16.21	16.18	16.16	16.17	16.15	16.15	16.14
CH 06	2437 MHz	17.86	17.75	17.78	17.82	17.81	17.78	17.82	17.84
CH 11	2462 MHz	<mark>18.47</mark>	18.36	18.25	18.22	18.19	18.29	18.42	18.34

			2.4GHz 802.11n HT20 RF Power (dBm)						
Channel	Frequency	OFDM Data Rate							
		6.5 Mbps	13 Mbps	19.5 Mbps	26 Mbps	39 Mbps	52 Mbps	58.5 Mbps	65 Mbps
CH 01	2412 MHz	15.26	15.05	14.97	14.86	14.91	14.85	14.82	14.92
CH 06	2437 MHz	16.65	16.49	16.52	16.46	16.44	16.41	16.37	16.41
CH 11	2462 MHz	<mark>17.13</mark>	16.88	16.81	16.8	16.83	16.91	16.87	16.84

	Frequency		2	.4GHz 80	802.11n HT40 RF Power (dBm)					
Channel		OFDM Data Rate								
		13.5 Mbps	27 Mbps	40.5 Mbps	54 Mbps	81 Mbps	108 Mbps	121.5 Mbps	135 Mbps	
CH 03	2422 MHz	16.64	16.58	16.56	16.52	16.5	16.47	16.46	16.44	
CH 06	2437 MHz	17.52	17.09	17.02	16.95	16.89	16.81	16.75	16.61	
CH 09	2452 MHz	<mark>18.35</mark>	17.47	17.25	17.23	17.12	17.20	17.12	16.61	

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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
	o ID DW	802.11b	1 Mbps	1/6/11
	6dB BW	802.11g	6 Mbps	1/6/11
	Power Spectral	802.11n HT20	6.5 Mbps	1/6/11
	Density	802.11n HT40	13.5 Mbps	3/6/9
		802.11b	1 Mbps	1/6/11
	Outrant Barrer	802.11g	6 Mbps	1/6/11
01	Output Power	802.11n HT20	6.5 Mbps	1/6/11
Conducted		802.11n HT40	13.5 Mbps	3/6/9
TCs		802.11b	1 Mbps	1/11
	Conducted Band	802.11g	6 Mbps	1/11
	Edge	802.11n HT20	6.5 Mbps	1/11
		802.11n HT40	13.5 Mbps	3/9
	Conducted Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
	Emission	802.11n HT40	13.5 Mbps	3/6/9
		802.11b	1 Mbps	1/11
	Radiated Band	802.11g	6 Mbps	1/11
	Edge	802.11n HT20	6.5 Mbps	1/11
Radiated		802.11n HT40	13.5 Mbps	3/9
TCs	B. B. C.	802.11b	1 Mbps	1/6/11
	Radiated	802.11g	6 Mbps	1/6/11
	Spurious Emission	802.11n HT20	6.5 Mbps	1/6/11
	EIIIISSIOII	802.11n HT40	13.5 Mbps	3/6/9
AC Conducted Emission	Mode 1 : GSM850 Earphone	Idle + Bluetooth Link + W	/LAN Link + USB Cable (	Charging from Adapter) +

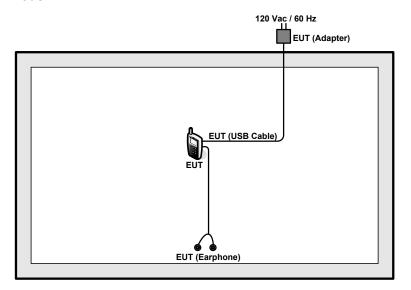
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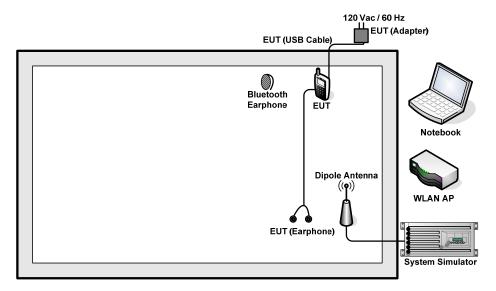


## 2.4 Connection Diagram of Test System

## <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	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	P08S	QDS-BRCM1030	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A

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## 2.6 EUT Operation Test Setup

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

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

## 2.7 Measurement Results Explanation Example

### For all conducted test items:

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

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#### Example:

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7.5 dB and 10dB attenuator.

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



3 Test Result

## 3.1 6dB Bandwidth Measurement

#### 3.1.1 Limit of 6dB Bandwidth

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

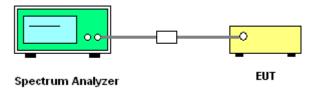
## 3.1.2 Measuring Instruments

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. Measure and record the results in the test report.

## 3.1.4 Test Setup



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## 3.1.5 Test Result of 6dB Bandwidth

Test Mode :	802.11b	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11b 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	9.08	0.5	Pass
06	2437	9.04	0.5	Pass
11	2462	9.04	0.5	Pass

Test Mode :	802.11g	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11g 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	16.36	0.5	Pass
06	2437	16.40	0.5	Pass
11	2462	16.40	0.5	Pass

Test Mode :	802.11n HT20	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	17.56	0.5	Pass
06	2437	17.56	0.5	Pass
11	2462	17.60	0.5	Pass

Test Mode :	802.11n HT40	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT40 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
03	2422	35.44	0.5	Pass
06	2437	35.44	0.5	Pass
09	2452	35.44	0.5	Pass

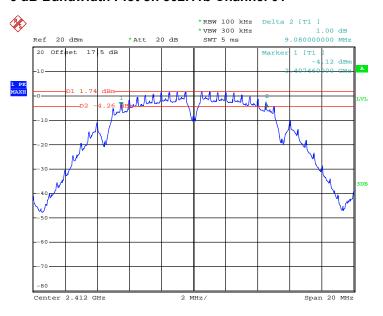
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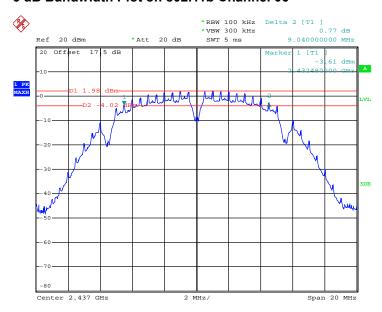
## 3.1.6 Test Result of 6dB Bandwidth Plots

## 6 dB Bandwidth Plot on 802.11b Channel 01



Date: 28.JUN.2013 23:05:56

## 6 dB Bandwidth Plot on 802.11b Channel 06



Date: 28.JUN.2013 23:17:56

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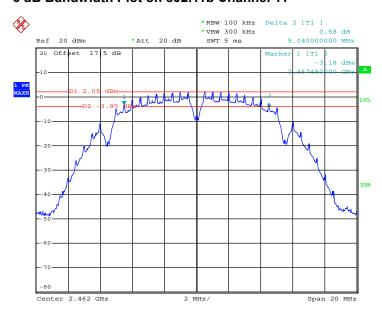
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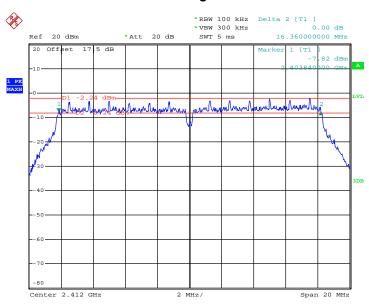
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## 6 dB Bandwidth Plot on 802.11b Channel 11



Date: 28.JUN.2013 23:27:35

## 6 dB Bandwidth Plot on 802.11g Channel 01



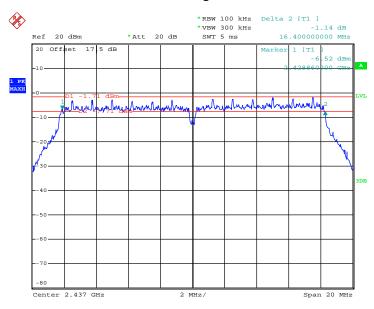
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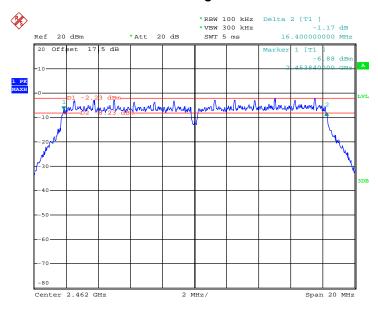
Report No.: FR362605C

## 6 dB Bandwidth Plot on 802.11g Channel 06



Date: 28.JUN.2013 23:58:23

## 6 dB Bandwidth Plot on 802.11g Channel 11

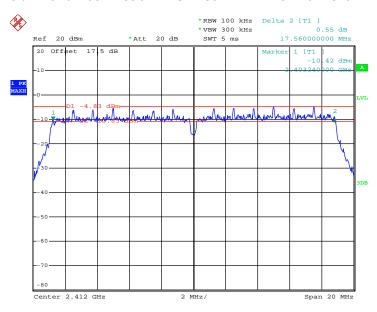


Date: 29.JUN.2013 00:15:52

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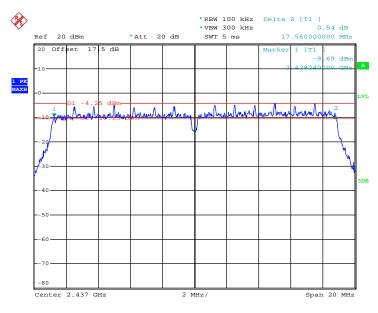


## 6 dB Bandwidth Plot on 2.4GHz 802.11n HT20 Channel 01



Date: 6.JUL.2013 17:34:07

## 6 dB Bandwidth Plot on 2.4GHz 802.11n HT20 Channel 06



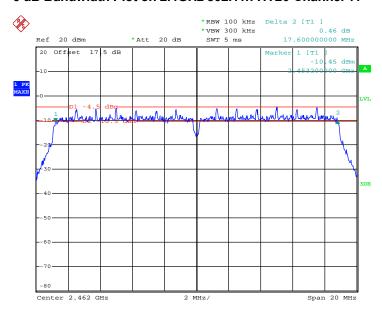
Date: 6.JUL.2013 17:29:37

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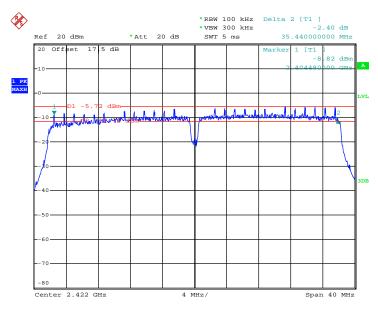
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## 6 dB Bandwidth Plot on 2.4GHz 802.11n HT20 Channel 11



Date: 6.JUL.2013 17:21:46

## 6 dB Bandwidth Plot on 2.4GHz 802.11n HT40 Channel 03

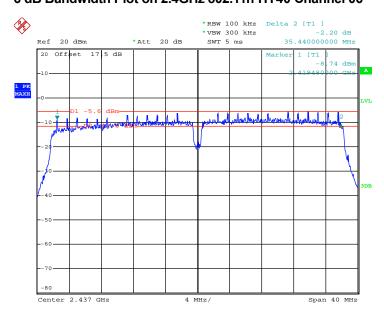


Date: 29.JUN.2013 01:16:40

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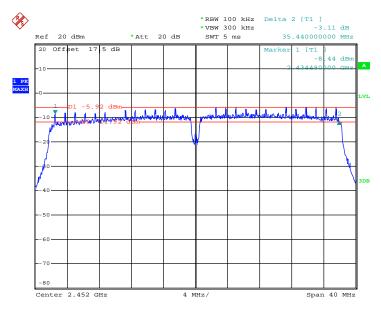


## 6 dB Bandwidth Plot on 2.4GHz 802.11n HT40 Channel 06



Date: 29.JUN.2013 01:29:00

## 6 dB Bandwidth Plot on 2.4GHz 802.11n HT40 Channel 09



Date: 29.JUN.2013 01:37:14

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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

See list of measuring instruments 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 :	802.11b	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

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Channel	Frequency (MHz)	802.11b Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	12.57	30	Pass
06	2437	13.51	30	Pass
11	2462	13.38	30	Pass

Test Mode :	802.11g	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11g Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	16.22	30	Pass
06	2437	17.86	30	Pass
11	2462	18.47	30	Pass

Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity:	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	15.26	30	Pass
06	2437	16.65	30	Pass
11	2462	17.13	30	Pass

Test Mode :	802.11n HT40	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT40 Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
03	2422	16.64	30	Pass
06	2437	17.52	30	Pass
09	2452	18.35	30	Pass

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

Test Mode :	802.11b	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity :	50~53%
Duty Cycle:	98.82%	Duty Factor:	0.05dB

Channel	Frequency (MHz)	802.11b Average Output Power (dBm)
01	2412	9.26
06	2437	10.21
11	2462	10.07

Test Mode :	802.11g	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity :	50~53%
Duty Cycle:	92.71%	Duty Factor:	0.33dB

Channel	Frequency (MHz)	802.11g Average Output Power (dBm)
01	2412	7.98
06	2437	8.32
11	2462	8.42

Test Mode:	802.11n HT20	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity :	50~53%
Duty Cycle:	92.22%	Duty Factor:	0.35dB

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 Average Output Power (dBm)
01	2412	5.32
06	2437	6.45
11	2462	6.47

Test Mode :	802.11n HT40	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity :	50~53%
Duty Cycle:	85.53%	Duty Factor:	0.68dB

Channel	Frequency (MHz)	2.4GHz 802.11n HT40 Average Output Power (dBm)
03	2422	6.91
06	2437	7.09
09	2452	7.23

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3.3 Power Spectral Density Measurement

## 3.3.1 Limit of Power Spectral Density

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

## 3.3.2 Measuring Instruments

See list of measuring instruments 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.
- 7. The Measured power density (dBm)/ 100KHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

### 3.3.4 Test Setup



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## FCC RF Test Report

## 3.3.5 Test Result of Power Spectral Density

Test Mode :	802.11b	Temperature :	24~26°C
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channel Frequency		802.11b Power Density		Max. Limits	Dage/Fail
Channel	(MHz)	PSD/100kHz (dBm)	PSD/3kHz (dBm)	(dBm/3kHz)	Pass/Fail
01	2412	1.31	-12.91	8	Pass
06	2437	1.59	-10.18	8	Pass
11	2462	1.57	-12.14	8	Pass

Test Mode :	802.11g	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channal	Frequency	802.11g Pov	Max. Limits	Dece/Feil	
Channel	(MHz)	PSD/100kHz (dBm)	PSD/3kHz (dBm)	(dBm/3kHz)	Pass/Fail
01	2412	-2.37	-16.92	8	Pass
06	2437	-1.83	-15.25	8	Pass
11	2462	-2.33	-16.70	8	Pass

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## FCC RF Test Report

Test Mode :	802.11n HT20	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

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Channel		2.4GHz 802.11n HT20 Power Density		Max. Limits	Dage/Fail
Channel	(MHz)	PSD/100kHz (dBm)	PSD/3kHz (dBm)	(dBm/3kHz)	Pass/Fail
01	2412	-4.98	-18.94	8	Pass
06	2437	-4.70	-18.61	8	Pass
11	2462	-4.85	-19.62	8	Pass

Test Mode :	802.11n HT40	Temperature :	<b>24~26</b> ℃
Test Engineer :	Blithe Li	Relative Humidity :	50~53%

Channal	Frequency	2.4GHz 802.11n H	Γ40 Power Density	Max. Limits	Dana/Fail
Channel	(MHz)	PSD/100kHz (dBm)	PSD/3kHz (dBm)	(dBm/3kHz)	Pass/Fail
03	2422	-5.94	-20.35	8	Pass
06	2437	-5.78	-19.49	8	Pass
09	2452	-6.08	-19.80	8	Pass

#### Note:

- 1. Measured power density (dBm) has offset with cable loss.
- 2. The Measured power density (dBm)/ 100kHz is reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

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## 3.3.6 Test Result of Power Spectral Density Plots (100kHz)

## PSD 100kHz Plot on 802.11b Channel 01



Date: 28.JUN.2013 23:07:14

## PSD 100kHz Plot on 802.11b Channel 06



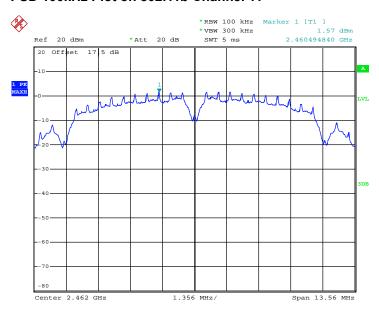
Date: 28.JUN.2013 23:19:03

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 26 of 97
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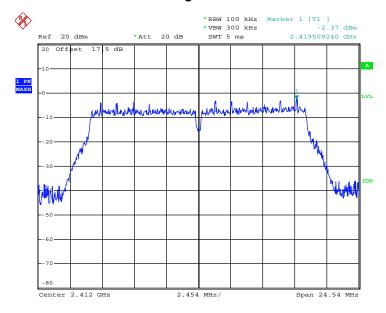
Report No. : FR362605C

## PSD 100kHz Plot on 802.11b Channel 11



Date: 28.JUN.2013 23:33:29

## PSD 100kHz Plot on 802.11g Channel 01



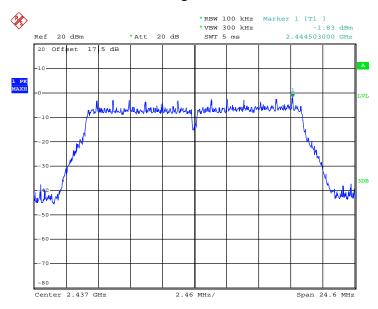
Date: 28.JUN.2013 23:46:15

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 27 of 97
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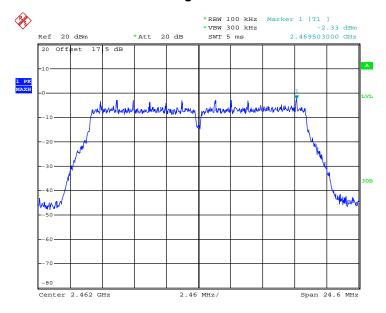
Report No.: FR362605C

## PSD 100kHz Plot on 802.11g Channel 06



Date: 28.JUN.2013 23:59:49

## PSD 100kHz Plot on 802.11g Channel 11

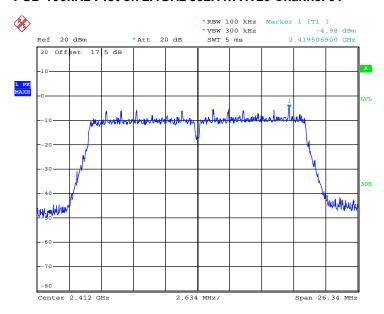


Date: 29.JUN.2013 00:16:40

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 28 of 97
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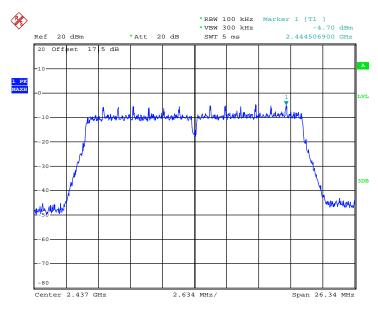


## PSD 100kHz Plot on 2.4GHz 802.11n HT20 Channel 01



Date: 6.JUL.2013 17:34:52

## PSD 100kHz Plot on 2.4GHz 802.11n HT20 Channel 06

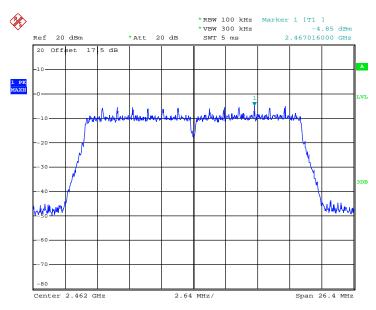


Date: 6.JUL.2013 17:30:51

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 29 of 97
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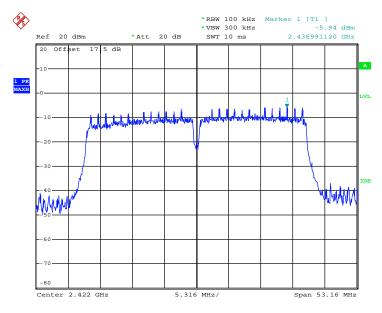


## PSD 100kHz Plot on 2.4GHz 802.11n HT20 Channel 11



Date: 6.JUL.2013 17:24:48

## PSD 100kHz Plot on 2.4GHz 802.11n HT40 Channel 03



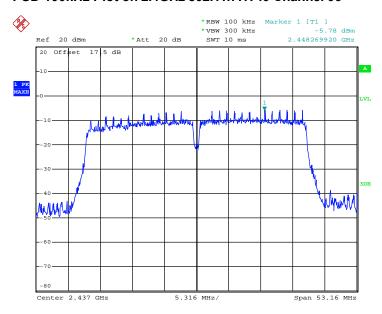
Date: 29.JUN.2013 01:17:54

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 30 of 97
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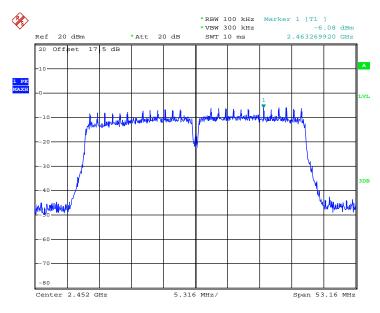
Report No. : FR362605C

## PSD 100kHz Plot on 2.4GHz 802.11n HT40 Channel 06



Date: 29.JUN.2013 01:30:14

## PSD 100kHz Plot on 2.4GHz 802.11n HT40 Channel 09



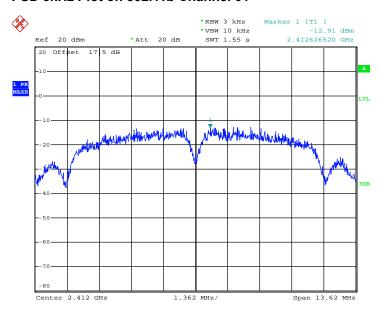
Date: 29.JUN.2013 01:38:40

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 31 of 97
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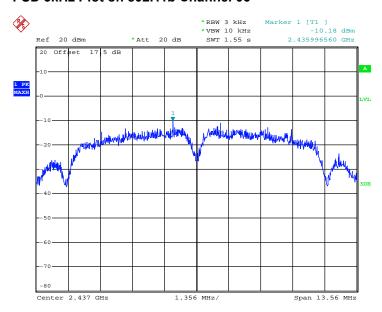
## 3.3.7 Test Result of Power Spectral Density Plots (3kHz)

## PSD 3kHz Plot on 802.11b Channel 01



Date: 28.JUN.2013 23:06:41

## PSD 3kHz Plot on 802.11b Channel 06

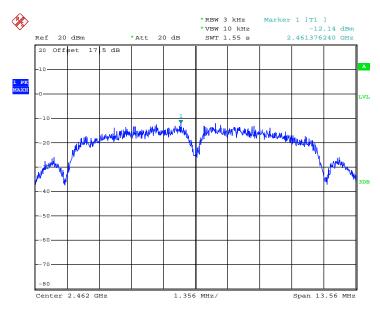


Date: 28.JUN.2013 23:18:27

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 32 of 97
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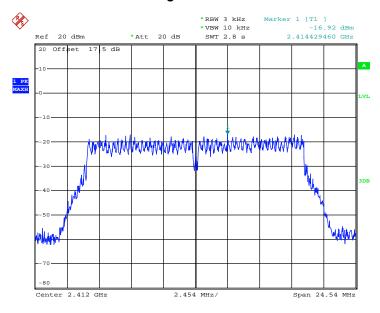


## PSD 3kHz Plot on 802.11b Channel 11



Date: 28.JUN.2013 23:28:01

## PSD 3kHz Plot on 802.11g Channel 01

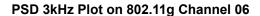


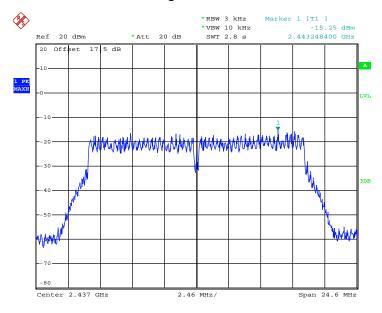
Date: 28.JUN.2013 23:45:27

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 33 of 97
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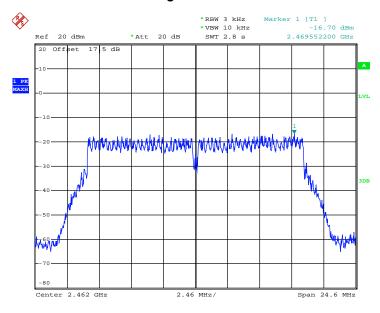
# st Report No. : FR362605C





Date: 28.JUN.2013 23:58:49

## PSD 3kHz Plot on 802.11g Channel 11

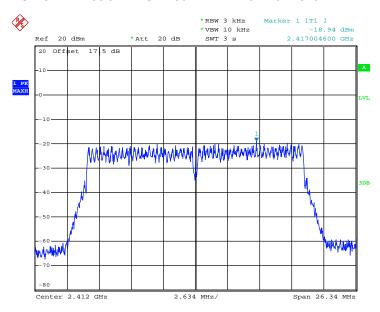


Date: 29.JUN.2013 00:16:20

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 34 of 97
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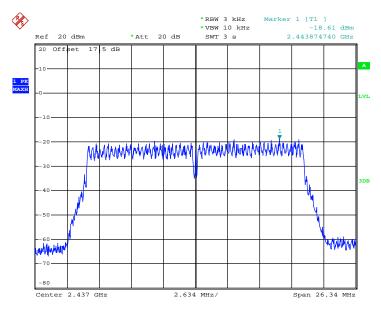


## PSD 3kHz Plot on 2.4GHz 802.11n HT20 Channel 01



Date: 6.JUL.2013 17:34:32

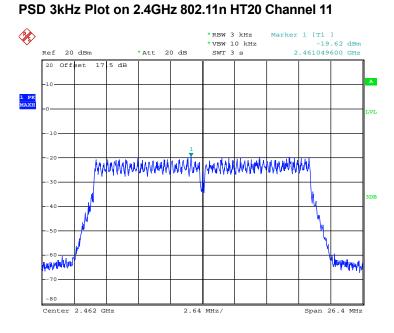
## PSD 3kHz Plot on 2.4GHz 802.11n HT20 Channel 06



Date: 6.JUL.2013 17:30:03

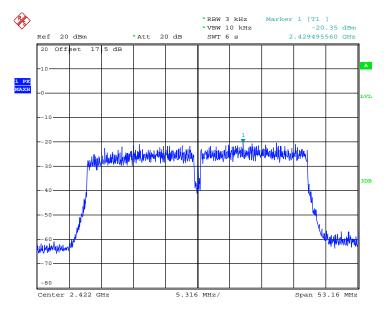
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 35 of 97
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Date: 6.JUL.2013 17:22:14

## PSD 3kHz Plot on 2.4GHz 802.11n HT40 Channel 03

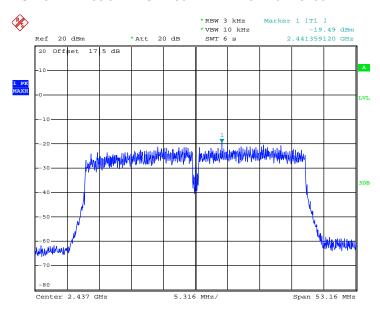


Date: 29.JUN.2013 01:17:09

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 36 of 97 Report Issued Date: Jul. 17, 2013 Report Version : Rev. 01

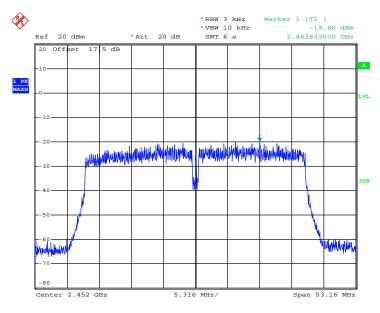


## PSD 3kHz Plot on 2.4GHz 802.11n HT40 Channel 06



Date: 29.JUN.2013 01:29:34

## PSD 3kHz Plot on 2.4GHz 802.11n HT40 Channel 09



Date: 29.JUN.2013 01:37:44

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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).

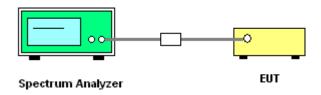
## 3.4.2 Measuring Instruments

See list of measuring instruments 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval.
- 5. 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).
- 6. Measure and record the results in the test report.
- 7. 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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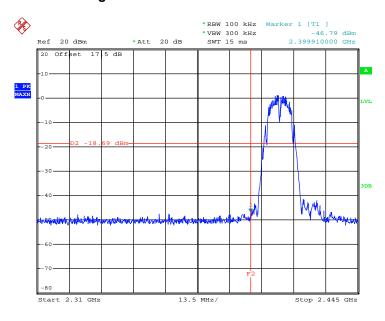
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## 2.4.5 Test Result of Conducted Spurious at Band Edges

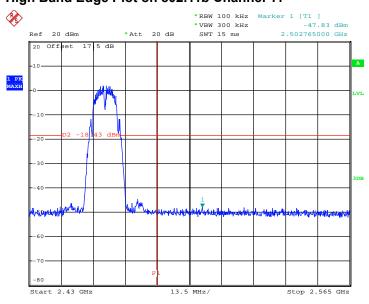
Test Mode :	802.11b	Temperature :	<b>24~26</b> ℃
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Blithe Li

## Low Band Edge Plot on 802.11b Channel 01



Date: 28.JUN.2013 23:08:52

## High Band Edge Plot on 802.11b Channel 11



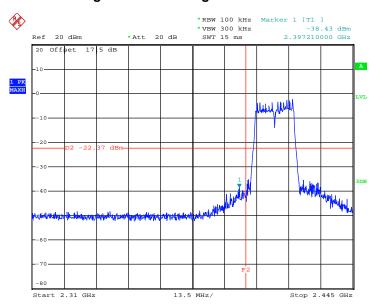
Date: 28.JUN.2013 23:33:49

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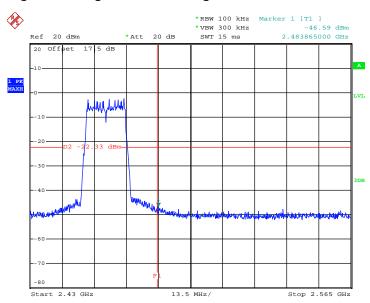
Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Blithe Li

## Low Band Edge Plot on 802.11g Channel 01



Date: 28.JUN.2013 23:47:20

## High Band Edge Plot on 802.11g Channel 11



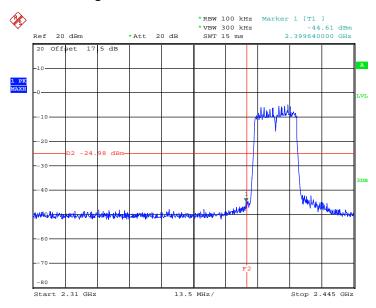
Date: 29.JUN.2013 00:17:27

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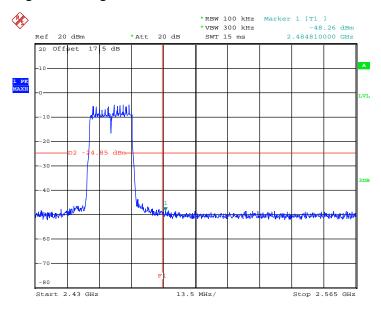
Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Blithe Li

## Low Band Edge Plot on 2.4GHz 802.11n HT20 Channel 01



Date: 6.JUL.2013 17:35:15

## High Band Edge Plot on 2.4GHz 802.11n HT20 Channel 11



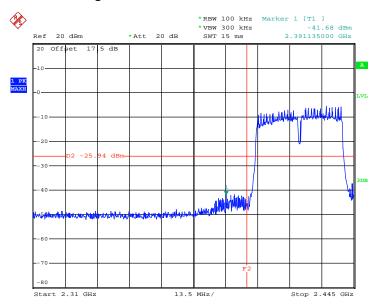
Date: 6.JUL.2013 17:25:37

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 41 of 97
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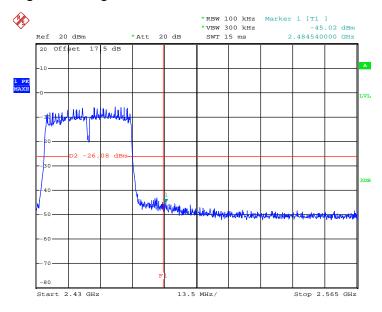
Test Mode :	802.11n HT40	Temperature :	<b>24~26</b> ℃	
Test Band :	Low and High	Relative Humidity :	50~53%	
Test Channel :	03 and 09	Test Engineer :	Blithe Li	

## Low Band Edge Plot on 2.4GHz 802.11n HT40 Channel 03



Date: 29.JUN.2013 01:18:20

## High Band Edge Plot on 2.4GHz 802.11n HT40 Channel 09



Date: 29.JUN.2013 01:40:02

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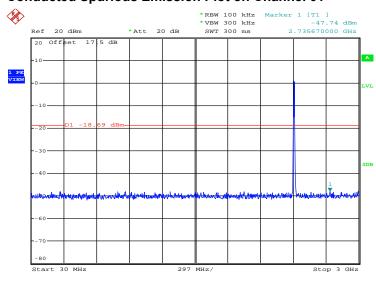
## 3.4.5 Test Result of Conducted Spurious Emission

Test Mode :	802.11b	Temperature :	<b>24~26</b> ℃
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Blithe Li

Report No.: FR362605C

#### 802.11b 30 MHz~3 GHz

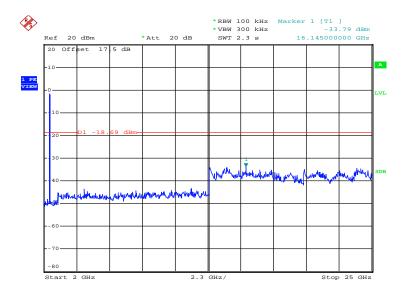
## **Conducted Spurious Emission Plot on Channel 01**



Date: 28.JUN.2013 23:12:47

## 802.11b 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 01**



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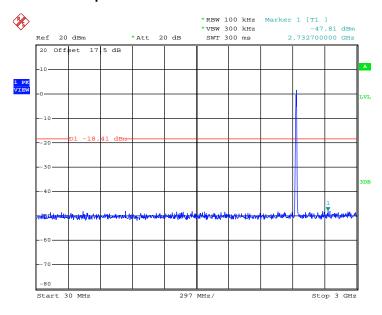
Date: 28.JUN.2013 23:13:06



Report No.: FR362605C

## 802.11b 30 MHz~3 GHz

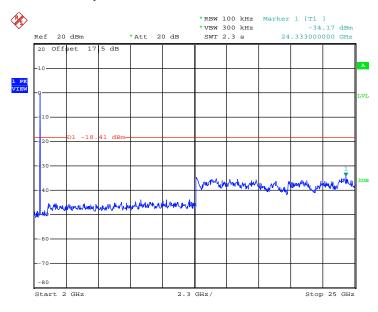
#### **Conducted Spurious Emission Plot on Channel 06**



Date: 28.JUN.2013 23:19:54

## 802.11b 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 06**



Date: 28.JUN.2013 23:20:13

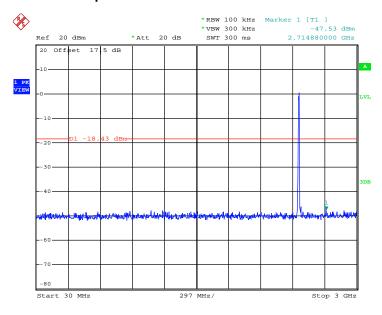
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 44 of 97 Report Issued Date: Jul. 17, 2013 Report Version : Rev. 01



Report No.: FR362605C

## 802.11b 30 MHz~3 GHz

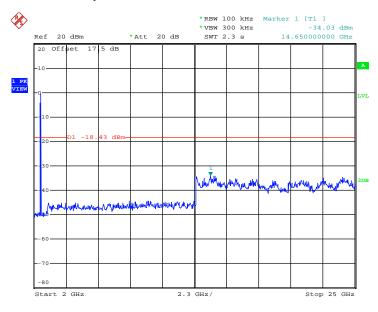
#### **Conducted Spurious Emission Plot on Channel 11**



Date: 28.JUN.2013 23:37:56

## 802.11b 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 11**



Date: 28.JUN.2013 23:38:15

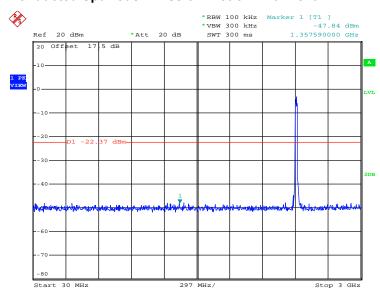
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEVIEW Page Number : 45 of 97 Report Issued Date: Jul. 17, 2013 Report Version : Rev. 01



Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Blithe Li

## 802.11g 30 MHz~3 GHz

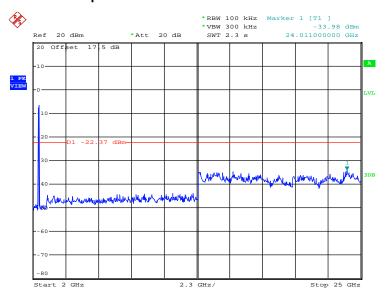
## **Conducted Spurious Emission Plot on Channel 01**



Date: 28.JUN.2013 23:49:48

## 802.11g 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 01**



Date: 28.JUN.2013 23:50:06

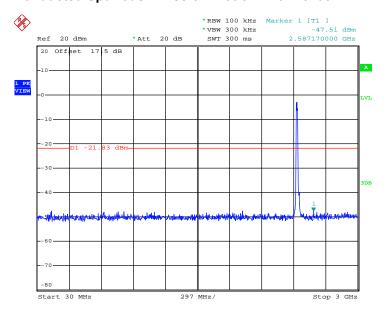
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## 802.11g 30 MHz~3 GHz

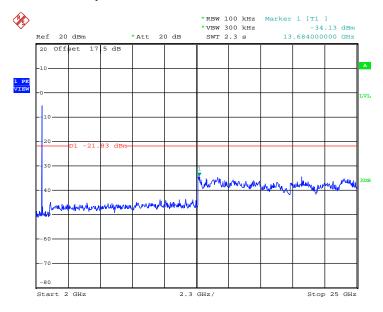
## **Conducted Spurious Emission Plot on Channel 06**



Date: 29.JUN.2013 00:11:43

## 802.11g 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 06**

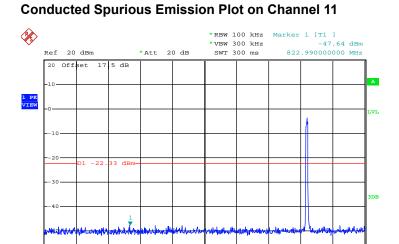


Date: 29.JUN.2013 00:12:01

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# 802.11g 30 MHz~3 GHz



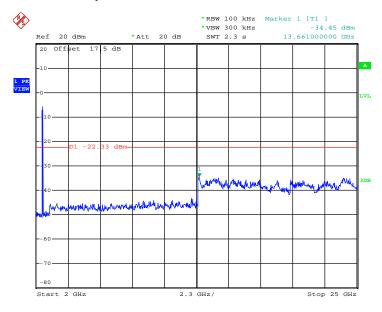
297 MHz/

Date: 29.JUN.2013 00:18:27

Start 30 MHz

## 802.11g 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 11**



Date: 29.JUN.2013 00:18:46

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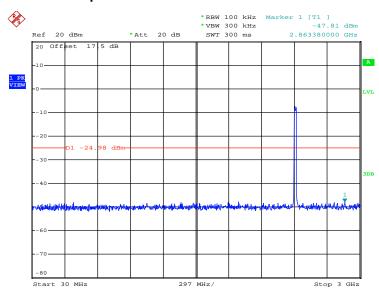
Stop 3 GHz



Test Mode :	802.11n HT20	Temperature :	<b>24~26</b> ℃	
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%	
Test Channel :	01, 06, 11	Test Engineer :	Blithe Li	

## 2.4GHz 802.11n HT20 30 MHz~3 GHz

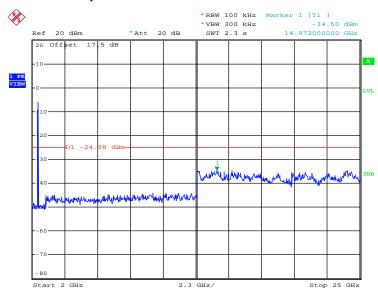
## **Conducted Spurious Emission Plot on Channel 01**



Date: 6.JUL.2013 17:36:02

## 2.4GHz 802.11n HT20 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 01**

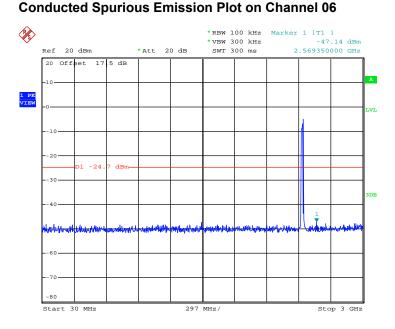


Date: 6.JUL.2013 17:36:21

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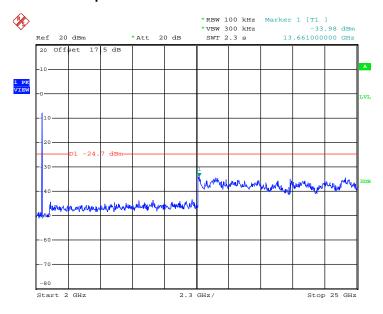


# 2.4GHz 802.11n HT20 30 MHz~3 GHz



Date: 6.JUL.2013 17:32:01

# 2.4GHz 802.11n HT20 2 GHz~25 GHz Conducted Spurious Emission Plot on Channel 06



Date: 6.JUL.2013 17:32:20

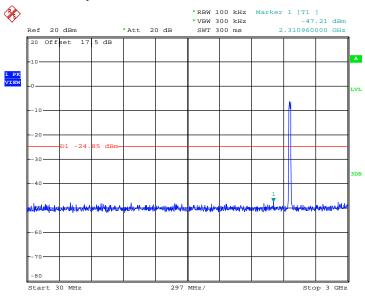
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## 2.4GHz 802.11n HT20 30 MHz~3 GHz

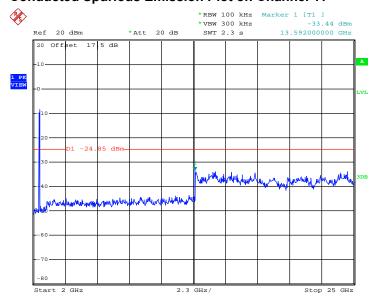
#### **Conducted Spurious Emission Plot on Channel 11**



Date: 6.JUL.2013 17:26:02

#### 2.4GHz 802.11n HT20 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 11**



Date: 6.JUL.2013 17:26:21

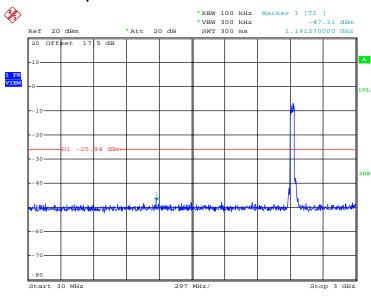
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Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	03, 06, 09	Test Engineer :	Blithe Li

## 2.4GHz 802.11n HT40 30 MHz~3 GHz

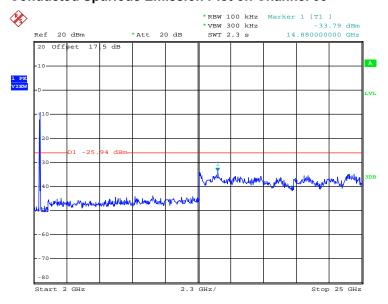
## **Conducted Spurious Emission Plot on Channel 03**



Date: 29.JUN.2013 01:25:20

#### 2.4GHz 802.11n HT40 2 GHz~25 GHz

## **Conducted Spurious Emission Plot on Channel 03**

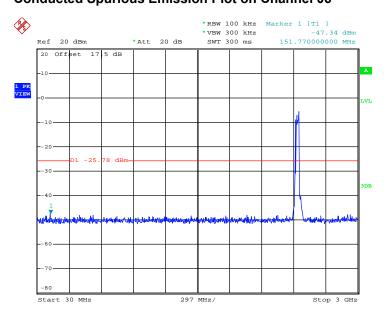


Date: 29.JUN.2013 01:25:38

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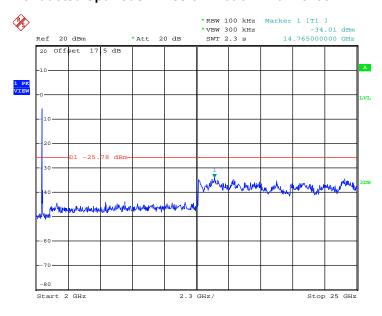


# 2.4GHz 802.11n HT40 30 MHz~3 GHz Conducted Spurious Emission Plot on Channel 06



Date: 29.JUN.2013 01:30:47

# 2.4GHz 802.11n HT40 2 GHz~25 GHz Conducted Spurious Emission Plot on Channel 06

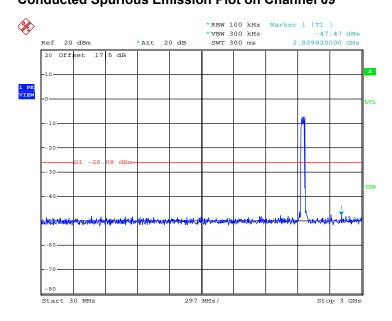


Date: 29.JUN.2013 01:31:06

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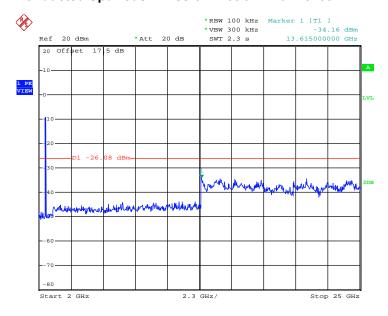


# 2.4GHz 802.11n HT40 30 MHz~3 GHz Conducted Spurious Emission Plot on Channel 09



Date: 29.JUN.2013 01:41:17

# 2.4GHz 802.11n HT40 2 GHz~25 GHz Conducted Spurious Emission Plot on Channel 09



Date: 29.JUN.2013 01:41:36

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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

See list of measuring instruments of this test report.

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## 3.5.3 Test Procedures

- 1. The testing follows the guidelines in ANSI C63.10-2009.
- 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 ≥ 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	92.71	1.398	0.715	1kHz
2.4GHz 802.11n HT20	92.22	1.304	0.767	1kHz
2.4GHz 802.11n HT40	85.53	0.650	1.538	3kHz

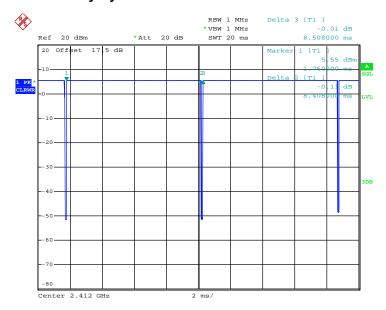
**Note:** For average measurement with duty cycle < 98%, use reduced VBW measurement method 4.2.3.2.3 in ANSI C63.10.

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## 802.11b Duty Cycle



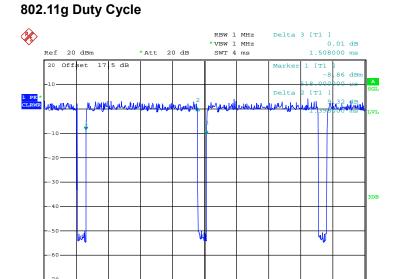
Date: 27.JUN.2013 10:58:02

#### Note:

The total loss is 17.5dB 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.

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Date: 27.JUN.2013 11:01:31

Center 2.412 GHz

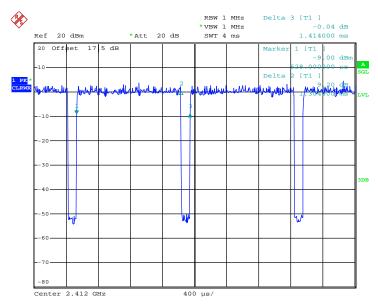
#### Note:

The total loss is 17.5dB 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.

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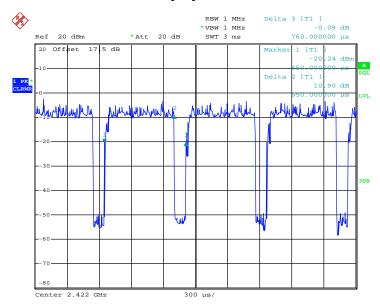
Date: 27.JUN.2013 11:06:26

#### Note:

The total loss is 17.5dB 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.

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## 2.4GHz 802.11n HT40 Duty Cycle



Date: 27.JUN.2013 11:12:18

#### Note:

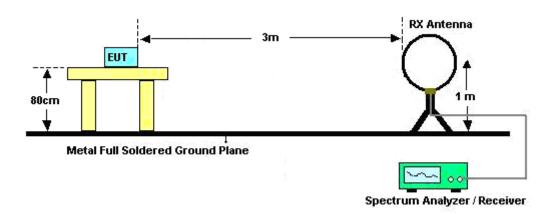
The total loss is 17.5dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer by setting into the amplitude level offset. That means the measured result shown on the spectrum analyzer has added the total loss and been compliance with the limit line.

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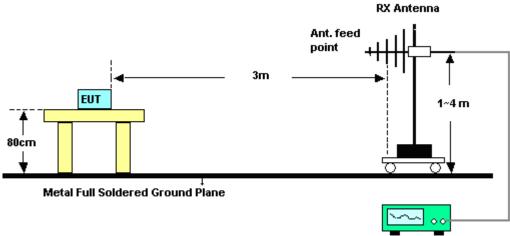


## 3.5.4 Test Setup

## For radiated emissions below 30MHz



## For radiated emissions from 30MHz to 1GHz



Spectrum Analyzer / Receiver

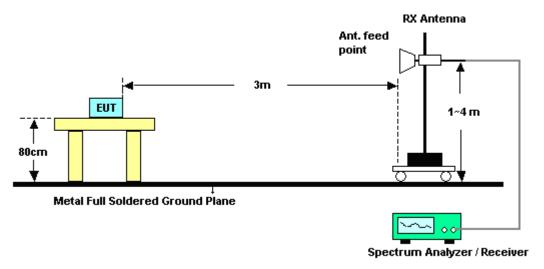
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## For radiated emissions above 1GHz



## 3.5.5 Test Results of Radiated 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 Band Edges

Test Mode :	802.11b	Temperature :	23~25°C	
Test Band :	Low	Relative Humidity :	49~53%	
Test Channel :	01	Test Engineer :	Zhongshuang Zhang	

Report No.: FR362605C

	ANTENNA POLARITY : HORIZONTAL									
Frequency	Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Rem								Remark	
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)	
2386.5	50.98	-23.02	74	43.04	32.14	5.59	29.79	100	126	Peak
2390	41.64	-12.36	54	33.66	32.14	5.62	29.78	100	126	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 )			
2386.41	51.3	-22.7	74	43.36	32.14	5.59	29.79	160	110	Peak		
2390	41.65	-12.35	54	33.67	32.14	5.62	29.78	160	110	Average		

Test Mode :	802.11b	Temperature :	23~25°C
Test Band :	High	Relative Humidity :	49~53%
Test Channel :	11	Test Engineer :	Zhongshuang 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)			
2483.5	55.95	-18.05	74	47.73	32.27	5.71	29.76	124	59	Peak		
2483.52	49.82	-4.18	54	41.6	32.27	5.71	29.76	124	59	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)			
2483.5	55.84	-18.16	74	47.62	32.27	5.71	29.76	130	110	Peak		
2483.5	49.06	-4.94	54	40.84	32.27	5.71	29.76	130	110	Average		

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Test Mode :	802.11g	Temperature :	23~25°C
Test Band :	Low	Relative Humidity :	49~53%
Test Channel :	01	Test Engineer :	Zhongshuang Zhang

Report No.: FR362605C

	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)			
2384.97	69.61	-4.39	74	61.69	32.12	5.59	29.79	100	66	Peak		

	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)			
2388.93	68.77	-5.23	74	60.83	32.14	5.59	29.79	121	61	Peak		
2389.92	48.54	-5.46	54	40.56	32.14	5.62	29.78	121	61	Average		

Test Mode :	802.11g	Temperature :	23~25°C
Test Band :	High	Relative Humidity :	49~53%
Test Channel :	11	Test Engineer :	Zhongshuang 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)			
2483.62	64.89	-9.11	74	56.67	32.27	5.71	29.76	100	68	Peak		
2483.53	47.77	-6.23	54	39.55	32.27	5.71	29.76	100	68	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)			
2484.58	64.93	-9.07	74	56.71	32.27	5.71	29.76	111	83	Peak		
2483.62	45.13	-8.87	54	36.91	32.27	5.71	29.76	111	83	Average		

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Test Mode :	802.11n HT20	Temperature :	23~25°C
Test Band :	Low	Relative Humidity :	49~53%
Test Channel :	01	Test Engineer :	Zhongshuang Zhang

Report No.: FR362605C

	ANTENNA POLARITY : HORIZONTAL											
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark		
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)			
2389.11	65.58	-8.42	74	57.6	32.14	5.62	29.78	100	57	Peak		

	ANTENNA POLARITY: VERTICAL												
Frequency	equency 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)				
2389.1	66.56	-7.44	74	58.58	32.14	5.62	29.78	123	55	Peak			
2389.01	49.25	-4.75	54	41.27	32.14	5.62	29.78	123	55	Average			

Test Mode :	802.11n HT20	Temperature :	23~25°C
Test Band :	High	Relative Humidity :	49~53%
Test Channel :	11	Test Engineer :	Zhongshuang Zhang

	ANTENNA POLARITY : HORIZONTAL												
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)				
2484.31	68.88	-5.12	74	61.9	32.27	4.47	29.76	100	67	Peak			
2483.62	48.25	-5.75	54	41.27	32.27	4.47	29.76	100	67	Average			

	ANTENNA POLARITY : VERTICAL												
Frequency	Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Ren												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	( deg )				
2484.49	64.63	-9.37	74	57.65	32.27	4.47	29.76	184	77	Peak			
2484.16	45.85	-8.15	54	38.87	32.27	4.47	29.76	184	77	Average			

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Test Mode :	802.11n HT40	Temperature :	23~25°C
Test Band :	Low	Relative Humidity :	49~53%
Test Channel :	03	Test Engineer :	Zhongshuang Zhang

Report No.: FR362605C

	ANTENNA POLARITY : HORIZONTAL												
Frequency	ncy Level Over Limit Read Antenna Cable Preamp Ant Table												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)				
2389.92	66.23	-7.77	74	58.25	32.14	5.62	29.78	100	63	Peak			

	ANTENNA POLARITY: VERTICAL												
Frequency	quency Level Over Limit Read Antenna Cable Preamp Ant Table Remai												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)				
2389.65	67.26	-6.74	74	59.32	32.14	5.59	29.79	185	108	Peak			
2389	45.63	-8.37	54	37.65	32.14	5.62	29.78	185	108	Average			

Test Mode :	802.11n HT40	Temperature :	23~25°C
Test Band :	High	Relative Humidity :	49~53%
Test Channel :	09	Test Engineer :	Zhongshuang Zhang

	ANTENNA POLARITY : HORIZONTAL												
Frequency	Frequency Level Over Limit Read Antenna Cable Preamp Ant Table Remark												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	( dBµV/m )	( dB )	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	(deg)				
2486.38	65.88	-8.12	74	57.66	32.27	5.71	29.76	155	62	Peak			
2484.01	48.45	-5.55	54	40.23	32.27	5.71	29.76	155	62	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 )				
2486.71	67.72	-6.28	74	59.5	32.27	5.71	29.76	120	104	Peak			
2483.86	49.88	-4.12	54	41.66	32.27	5.71	29.76	120	104	Average			

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

**Note:** Below 1GHz for radiated emission measurement, pre-scanned all test modes and only choose the worst case mode was recorded in the report.

Test Mode :	802.	11b	Temperature :	23~25°C				
Test Channel :	01		Relative Humidity :	49~53%				
Test Engineer :	Zhoi	ngshuang Zhang	Polarization :	Horizontal				
	1.	2412 MHz is fundamer	ntal signal which can be ignored.					
	2.	2. 7236 MHz is not within a restricted band, and its limit line is 20dB be						
Remark :		highest emission level. For example, 105.51 $dB\mu V/m$ - 20dB = 8						
Remark :		dBμV/m.						
	3.	Average measurement	t was not performed if	peak level went lower than the				
		average limit.						

Frequer	ncy 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	105.51	-	-	97.5	32.17	5.62	29.78	100	126	Peak
2412	103.21	-	-	95.2	32.17	5.62	29.78	100	126	Average
4824	37.6	-36.4	74	24.9	33.68	8.36	29.34	115	320	Peak
7236	38.45	-47.06	85.51	21.23	35.29	9.97	28.04	180	325	Peak

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Test Mode :	802.	11b	Temperature :	23~25°C			
Test Channel :	01		Relative Humidity :	49~53%			
Test Engineer :	Zhoi	ngshuang Zhang	Polarization :	Vertical			
	1.	2412 MHz is fundamer	ntal signal which can b	e ignored.			
	2.	7236 MHz is not within	n a restricted band, and	d its limit line is 20dB below the			
Remark :		highest emission level.					
	3.	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)	
2412	104.35	-	-	96.34	32.17	5.62	29.78	160	100	Peak
2412	102.23	-	-	94.22	32.17	5.62	29.78	160	100	Average
4824	41.88	-32.12	74	29.18	33.68	8.36	29.34	156	356	Peak
7236	37.3	-47.05	84.35	20.08	35.29	9.97	28.04	180	258	Peak

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Test Mode :	802.11b	Temperature :	23~25°C			
Test Channel :	06	Relative Humidity :	49~53%			
Test Engineer :	Zhongshuang 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	105.81	-	-	97.71	32.22	5.65	29.77	100	63	Peak
2437	103.7	-	-	95.6	32.22	5.65	29.77	100	63	Average
4874	36.51	-37.49	74	23.64	33.8	8.41	29.34	150	140	Peak
7311	38.62	-35.38	74	21.3	35.31	9.99	27.98	130	125	Peak

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Test Mode :	802.11b	Temperature :	23~25°C			
Test Channel :	06	Relative Humidity :	49~53%			
Test Engineer :	Zhongshuang 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 th					
	average limit.					

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	(dB)	(dB)	( cm )	( deg )	
2437	104.24	-	-	96.14	32.22	5.65	29.77	157	111	Peak
2437	102.09	-	-	93.99	32.22	5.65	29.77	157	111	Average
4874	37.11	-36.89	74	24.24	33.8	8.41	29.34	187	198	Peak
7311	37.82	-36.18	74	20.5	35.31	9.99	27.98	158	165	Peak

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Test Mode :	802.11b	Temperature :	23~25°C		
Test Channel :	11	Relative Humidity :	49~53%		
Test Engineer :	Zhongshuang 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				
	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	106.33	-	-	98.17	32.24	5.68	29.76	124	59	Peak
2462	103.91	-	-	95.75	32.24	5.68	29.76	124	59	Average
4924	37.48	-36.52	74	24.45	33.92	8.46	29.35	150	190	Peak
7386	39.17	-34.83	74	21.7	35.35	10.02	27.9	162	320	Peak

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Test Mode :	802.11b	Temperature :	23~25°C					
Test Channel :	11	Relative Humidity :	49~53%					
Test Engineer :	Zhongshuang 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 )	
2462	105.36	-	-	97.2	32.24	5.68	29.76	130	110	Peak
2462	102.99	-	-	94.83	32.24	5.68	29.76	130	110	Average
4924	38.54	-35.46	74	25.51	33.92	8.46	29.35	150	180	Peak
7386	37.59	-36.41	74	20.12	35.35	10.02	27.9	180	170	Peak

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Test Mode :	802.	.11g	Temperature :	23~25°C				
Test Channel :	01		Relative Humidity :	49~53%				
Test Engineer :	Zhor	ngshuang Zhang	Polarization :	Horizontal				
	1.	2412 MHz is fundamer	ntal signal which can be ignored.					
	2.	7236 MHz is not within	n a restricted band, and	d its limit line is 20dB below the				
Remark :		highest emission level.						
	3.	Average measuremen	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 )	
62.67	27.26	-12.74	40	51.42	5.53	0.85	30.54	-	-	Peak
105.6	33.59	-9.91	43.5	51.26	11.8	1.18	30.65	100	120	Peak
186.33	26.79	-16.71	43.5	46.84	9	1.33	30.38	-	-	Peak
352.5	27.86	-18.14	46	41.09	14.77	1.83	29.83	-	-	Peak
531.7	24.22	-21.78	46	33.22	18.1	2.19	29.29	-	-	Peak
696.9	36.23	-9.77	46	43.49	19.38	2.43	29.07	-	-	Peak
2412	106.51	-	-	98.5	32.17	5.62	29.78	100	66	Peak
2412	97.73	-	-	89.72	32.17	5.62	29.78	100	66	Average
4824	37.6	-36.4	74	24.9	33.68	8.36	29.34	120	140	Peak
7236	38.45	-48.06	86.51	21.23	35.29	9.97	28.04	150	140	Peak

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Test Mode :	802.	.11g	Temperature :	23~25°C			
Test Channel :	01		Relative Humidity :	49~53%			
Test Engineer :	Zho	ngshuang Zhang	Polarization :	Vertical			
	1.	2412 MHz is fundamer	ntal signal which can be ignored.				
	2.	7236 MHz is not within	n a restricted band, and	d its limit line is 20dB below the			
Remark :		highest emission level.					
	3.	Average measuremen	t was not performed if	peak level went lower than the			
		average limit.					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	(cm)	( deg )	
84	24.22	-15.78	40	45.66	8.1	1.08	30.62	-	-	Peak
95.88	31.31	-12.19	43.5	50.41	10.4	1.16	30.66	-	-	Peak
172.56	31.61	-11.89	43.5	51.12	9.63	1.28	30.42	120	210	Peak
353.9	28.66	-17.34	46	41.87	14.77	1.84	29.82	-	-	Peak
533.1	25.37	-20.63	46	34.37	18.1	2.19	29.29	-	-	Peak
898.5	29.93	-16.07	46	34.81	21.22	2.71	28.81	-	-	Peak
2412	104.81	-	-	96.8	32.17	5.62	29.78	121	61	Peak
2412	95.61	-	-	87.6	32.17	5.62	29.78	121	61	Average
4824	41.88	-32.12	74	29.18	33.68	8.36	29.34	128	158	Peak
7236	37.3	-47.51	84.81	20.08	35.29	9.97	28.04	180	247	Peak

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Test Mode :	802.11g	Temperature :	23~25°C				
Test Channel :	06	Relative Humidity :	49~53%				
Test Engineer :	Zhongshuang 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	106.66	-	-	98.56	32.22	5.65	29.77	100	69	Peak
2437	97.85	-	-	89.75	32.22	5.65	29.77	100	69	Average
4874	36.51	-37.49	74	23.64	33.8	8.41	29.34	130	210	Peak
7311	38.62	-35.38	74	21.3	35.31	9.99	27.98	130	230	Peak

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Test Mode :	802.11g	Temperature :	23~25°C				
Test Channel :	06	Relative Humidity :	49~53%				
Test Engineer :	Zhongshuang 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	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	104.22	-	-	96.12	32.22	5.65	29.77	100	62	Peak
2437	95.02	-	-	86.92	32.22	5.65	29.77	100	62	Average
4874	37.11	-36.89	74	24.24	33.8	8.41	29.34	108	282	Peak
7311	37.82	-36.18	74	20.5	35.31	9.99	27.98	185	148	Peak

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Test Mode :	802.11g	Temperature :	23~25°C				
Test Channel :	11	Relative Humidity :	49~53%				
Test Engineer :	Zhongshuang 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	107.82	-	-	99.66	32.24	5.68	29.76	100	68	Peak
2462	98.7	-	-	90.54	32.24	5.68	29.76	100	68	Average
4924	37.48	-36.52	74	24.45	33.92	8.46	29.35	150	174	Peak
7386	39.17	-34.83	74	21.7	35.35	10.02	27.9	132	150	Peak

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Test Mode :	802.11g	Temperature :	23~25°C				
Test Channel :	11	Relative Humidity :	49~53%				
Test Engineer :	Zhongshuang 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 )	
2462	106.51	-	-	98.35	32.24	5.68	29.76	110	83	Peak
2462	96.98	-	-	88.82	32.24	5.68	29.76	110	83	Average
4924	38.54	-35.46	74	25.51	33.92	8.46	29.35	154	175	Peak
7386	37.59	-36.41	74	20.12	35.35	10.02	27.9	154	320	Peak

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Test Mode :	2.40	GHz 802.11n HT20	Temperature :	23~25°C				
Test Channel :	01		Relative Humidity :	49~53%				
Test Engineer :	Zhor	ngshuang Zhang	Polarization :	Horizontal				
	1.	. 2412 MHz is fundamental signal which can be ignored.						
	2.	7236 MHz is not within	n a restricted band, and	d its limit line is 20dB below the				
Remark :		highest emission level.						
	3.	Average measurement was not performed if peak level went lower than the						
		average limit.						

Free	quency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(1	MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB )	( dB )	( dB )	( cm )	( deg )	
2	2412	106.51	-	-	98.5	32.17	5.62	29.78	100	57	Peak
2	2412	97.61	-	-	89.6	32.17	5.62	29.78	100	57	Average
4	1824	37.6	-36.4	74	24.9	33.68	8.36	29.34	130	250	Peak
7	7236	38.45	-48.06	86.51	21.23	35.29	9.97	28.04	150	140	Peak

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Test Mode :	2.40	GHz 802.11n HT20	Temperature :	23~25°C				
Test Channel :	01		Relative Humidity :	49~53%				
Test Engineer :	Zhoi	ngshuang Zhang	Polarization :	Vertical				
	1.	. 2412 MHz is fundamental signal which can be ignored.						
	2.	7236 MHz is not within	n a restricted band, and	d its limit line is 20dB below the				
Remark :		highest emission level.						
	3.	Average measurement	t 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 )	
2412	103.81	-	-	95.8	32.17	5.62	29.78	123	55	Peak
2412	94.73	-	-	86.72	32.17	5.62	29.78	123	55	Average
4824	41.88	-32.12	74	29.18	33.68	8.36	29.34	150	140	Peak
7236	37.3	-46.51	83.81	20.08	35.29	9.97	28.04	100	210	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	49~53%					
Test Engineer :	Zhongshuang 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	107.4	-	-	99.3	32.22	5.65	29.77	100	69	Peak
2437	98.82	-	-	90.72	32.22	5.65	29.77	100	69	Average
4874	36.51	-37.49	74	23.64	33.8	8.41	29.34	120	230	Peak
7311	38.62	-35.38	74	21.3	35.31	9.99	27.98	145	150	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	49~53%					
Test Engineer :	Zhongshuang 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	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	106.4	-	-	98.3	32.22	5.65	29.77	134	106	Peak
2437	95.1	-	-	87	32.22	5.65	29.77	134	106	Average
4874	37.11	-36.89	74	24.24	33.8	8.41	29.34	150	140	Peak
7311	37.82	-36.18	74	20.5	35.31	9.99	27.98	110	320	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C						
Test Channel :	11	Relative Humidity :	49~53%						
Test Engineer :	Zhongshuang 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	110.84	-	-	103.89	32.24	4.47	29.76	100	66	Peak
2462	100.81	-	-	93.86	32.24	4.47	29.76	100	66	Average
4924	37.48	-36.52	74	24.45	33.92	8.46	29.35	140	132	Peak
7386	39.17	-34.83	74	21.7	35.35	10.02	27.9	150	147	Peak

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Test Mode :	2.4GHz 802.11n HT20	Temperature :	23~25°C						
Test Channel :	11	Relative Humidity :	49~53%						
Test Engineer :	Zhongshuang 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	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	108.87	-	-	101.92	32.24	4.47	29.76	184	77	Peak
2462	98.57	-	-	91.62	32.24	4.47	29.76	184	77	Average
4924	38.54	-35.46	74	25.51	33.92	8.46	29.35	130	174	Peak
7386	37.59	-36.41	74	20.12	35.35	10.02	27.9	158	345	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	03	Relative Humidity :	49~53%					
Test Engineer :	Zhongshuang Zhang	Polarization :	Horizontal					
	1. 2422 MHz is fundamer	2422 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over Limit	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	103.7	-	-	95.63	32.19	5.65	29.77	100	63	Peak
2422	95.01	-	-	86.94	32.19	5.65	29.77	100	63	Average
4844	37.22	-36.78	74	24.46	33.72	8.38	29.34	123	200	Peak
7266	38.97	-35.03	74	21.7	35.3	9.98	28.01	130	250	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	03	Relative Humidity :	49~53%					
Test Engineer :	Zhongshuang Zhang	Polarization :	Vertical					
	1. 2422 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	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	100.17	-	-	92.1	32.19	5.65	29.77	185	108	Peak
2422	92	-	-	83.93	32.19	5.65	29.77	185	108	Average
4844	38.69	-35.31	74	25.93	33.72	8.38	29.34	130	180	Peak
7266	38.6	-35.4	74	21.33	35.3	9.98	28.01	180	150	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C						
Test Channel :	06	Relative Humidity :	49~53%						
Test Engineer :	Zhongshuang 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	102.96	-	-	94.86	32.22	5.65	29.77	100	148	Peak
2437	93.41	-	-	85.31	32.22	5.65	29.77	100	148	Average
4874	36.51	-37.49	74	23.64	33.8	8.41	29.34	150	123	Peak
7311	38.62	-35.38	74	21.3	35.31	9.99	27.98	100	230	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	06	Relative Humidity :	49~53%					
Test Engineer :	Zhongshuang 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	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	101.3	-	-	93.2	32.22	5.65	29.77	159	111	Peak
2437	92.5	-	-	84.4	32.22	5.65	29.77	159	111	Average
4874	37.11	-36.89	74	24.24	33.8	8.41	29.34	120	300	Peak
7311	37.82	-36.18	74	20.5	35.31	9.99	27.98	120	340	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	09	Relative Humidity :	49~53%					
Test Engineer :	Zhongshuang Zhang	Polarization :	Horizontal					
	1. 2452 MHz is fundament	2452 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 )	
2452	101.31	-	-	93.17	32.22	5.68	29.76	155	62	Peak
2452	91.13	-	-	82.99	32.22	5.68	29.76	155	62	Average
4904	37.48	-36.52	74	24.5	33.88	8.44	29.34	120	230	Peak
7266	38.97	-35.03	74	21.7	35.3	9.98	28.01	120	250	Peak

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Test Mode :	2.4GHz 802.11n HT40	Temperature :	23~25°C					
Test Channel :	09	Relative Humidity :	49~53%					
Test Engineer :	Zhongshuang Zhang	Polarization :	Vertical					
	1. 2452 MHz is fundament	2452 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 )	
2452	101.77	-	-	93.63	32.22	5.68	29.76	120	104	Peak
2452	92.63	-	-	84.49	32.22	5.68	29.76	120	104	Average
4904	38.13	-35.87	74	25.15	33.88	8.44	29.34	110	120	Peak
7266	38.6	-35.4	74	21.33	35.3	9.98	28.01	150	143	Peak

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#### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table.

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

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

#### 3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.6.3 **Test Procedures**

- 1. The testing follows the guidelines in ANSI C63.10-2009.
- 2. 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.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 4. All the support units are connecting to the other LISN.
- 5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 7. Both sides of AC line were checked for maximum conducted interference.
- 8. The frequency range from 150 KHz to 30 MHz was searched.
- 9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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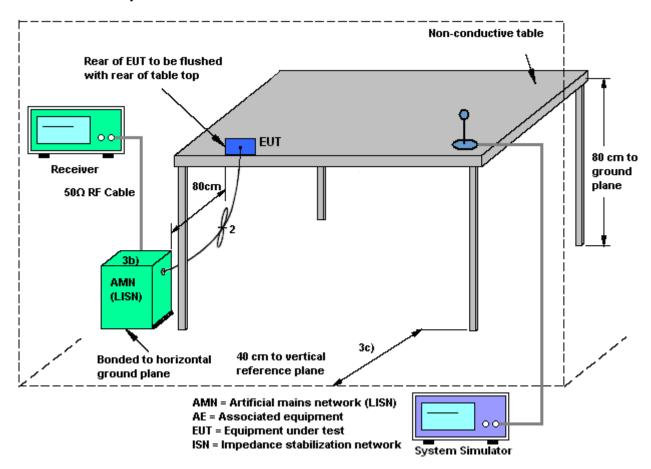
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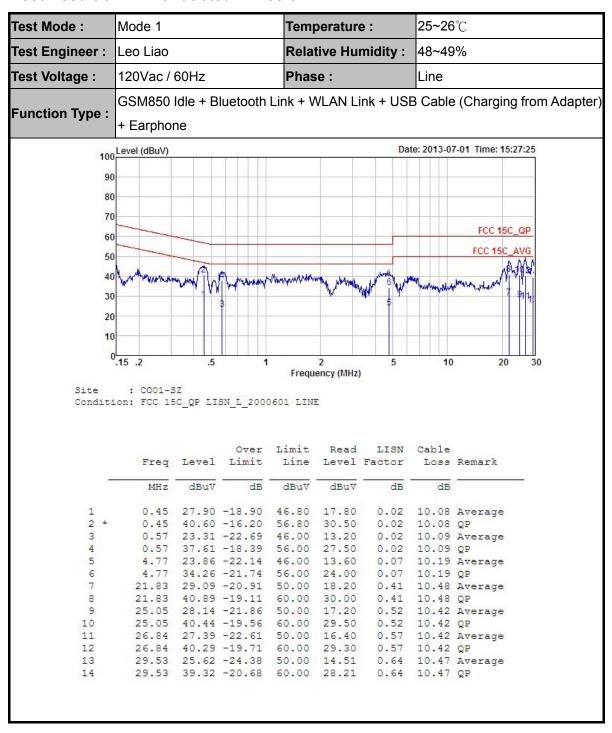
#### 3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission



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Test Mode :	Mode 1			Temp	Temperature :			25~26℃	
Test Engineer :	Leo Liao			Relat	Relative Humidity :			48~49%	
Test Voltage :	120Vac / 60Hz			Phas	Phase :			Neutral	
F 4' T	GSM850 I	dle + Bl	uetooth	Link + V	VLAN Li	nk + USE	3 Cable	(Charging f	rom Adapter)
Function Type :	+ Earphor	ne							
100	Level (dBuV)					Dat	te: 2013-0	7-01 Time: 15:34	:14
90							45 183925	-	
80									
70									
\$2.50 March								FCC 15C_Q	P
60								FCC 15C_AV	0.0
50		A				idet.		MA A	Å A
40	hard Whiterest	MAN TYN	Planton Contractory	y was a second look	erapt Manuer	68 <sup>1</sup> 0 /	AND MAKE MAKE MAKE	What when I was	Υ
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20									
100									
10	2								
(	.15 .2	.5	1		2 ency (MHz)	5	10	) 20	30
Site Conditi	: CO01-S		SN_N_2000	0601 NEU	FRAL				
			Over	Limit	Read	LISN	Cable		
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
-	MHz	dBuV	dB	dBuV	dBuV	dB	dB	-	
1 *	0.45	33.50	-13.39	46.89	23.40	0.02		Average	
2	0.45			56.89	31.50		10.08		
3 4	0.57		-18.09 -16.89					Average	
5			-19.44	46.00				Average	
6	4.22	37.96	-18.04	56.00	27.70	0.07	10.19		
7	4.45		-17.74	46.00	18.00	0.07		Average	
8						0.07			
9								Average	
10						0.08			
11								Average	
12 13						0.59			
13						0.79		Average	
15.5	1500000								

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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 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.

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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	Jun. 28, 2013~ Jul. 06, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	N/A	Mar. 28, 2013	Jun. 28, 2013~ Jul. 06, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	N/A	Mar. 28, 2013	Jun. 28, 2013~ Jul. 06, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Mar. 28, 2013	Jun. 27, 2013~ Jul. 05, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP30	101362	9kHz~30GHz	Oct. 11, 2012	Jun. 27, 2013~ Jul. 05, 2013	Oct. 10, 2013	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 12, 2012	Jun. 27, 2013~ Jul. 05, 2013	Oct. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Nov. 03, 2012	Jun. 27, 2013~ Jul. 05, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz GAIN 30db	Mar. 28, 2013	Jun. 27, 2013~ Jul. 05, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Jun. 27, 2013~ Jul. 05, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF -Horn	Schwarzbeck	BBHA9170	BBHA9170249	14GHz~40GHz	Nov. 23, 2012	Jun. 27, 2013~ Jul. 05, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 22, 2012	Jun. 27, 2013~ Jul. 05, 2013	Oct. 21, 2013	Radiation (03CH01-SZ)
Turn Table	EM Electronice	EM 1000	N/A	0~360 degree	N/A	Jun. 27, 2013~ Jul. 05, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronice	EM 1000	N/A	1 m~4 m	N/A	Jun. 27, 2013~ Jul. 05, 2013	N/A	Radiation (03CH01-SZ)
AC LISN	ETS-LIND GREN	3816/2SH	00103912	0.1MHz~108MHz	Feb. 28, 2013	Jul. 01, 2013	Feb. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	ETS-LIND GREN	3816/2SH	00103892	0.1MHz~108MHz	Feb. 28, 2013	Jul. 01, 2013	Feb. 27, 2014	Conduction (CO01-SZ)
ESCIO TEST Receiver	R&S	1142.8007.0 3	100724	9kHz~3GHz	Mar. 08, 2013	Jul. 01, 2013	Mar. 07, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891 N/A	N/A	Oct. 12, 2012	Jul. 01, 2013	Oct. 11, 2013	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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#### <u>Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)</u>

Measuring Uncertainty for a Level of	2.54
Confidence of 95% (U = 2Uc(y))	2.54

#### **Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

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

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# Appendix A. Photographs of EUT

Please refer to Sporton report number EP362605 as below.

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