FCC RF Test Report

APPLICANT : CT Asia
EQUIPMENT : Tablet
BRAND NAME : BLU

MODEL NAME : TOUCHBOOK G7
FCC ID : YHLBLUTBG7

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

The product was received on Jun. 03, 2015 and testing was completed on Jun. 25, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

Testing Laboratory

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMA	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Product Feature of Equipment Under Test	5
	1.4	Product Specification subjective to this standard	5
	1.5	Modification of EUT	6
	1.6	Testing Location	6
	1.7	Applicable Standards	7
2	TES	T CONFIGURATION OF EQUIPMENT UNDER TEST	8
	2.1	Carrier Frequency Channel	8
	2.2	Pre-Scanned RF Power	9
	2.3	Test Mode	10
	2.4	Connection Diagram of Test System	11
	2.5	Support Unit used in test configuration and system	12
	2.6	EUT Operation Test Setup	12
	2.7	Measurement Results Explanation Example	12
3	TES	T RESULT	13
	3.1	6dB Bandwidth Measurement	13
	3.2	Output Power Measurement	15
	3.3	Power Spectral Density Measurement	16
	3.4	Conducted Band Edges and Spurious Emission Measurement	18
	3.5	Radiated Band Edges and Spurious Emission Measurement	31
	3.6	AC Conducted Emission Measurement	35
	3.7	Antenna Requirements	39
4	LIST	OF MEASURING EQUIPMENT	40
5	UNC	ERTAINTY OF EVALUATION	41
ΑP	PEND	DIX A. CONDUCTED TEST RESULTS	
ΑP	PEND	DIX B. RADIATED TEST RESULTS	
ΑP	PEND	DIX C. SETUP PHOTOGRAPHS	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 2 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

REVISION HISTORY

		ISSUED DATE
Rev. 01	Initial issue of report	Jul. 14, 2015
	Rev. 01	Rev. 01 Initial issue of report

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 3 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	- ≤ 20dBc	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 10.01 dB at 2487.160 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.32 dB at 0.490 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 4 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

1 General Description

1.1 Applicant

CT Asia

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

1.2 Manufacturer

wanlida Group Co., Ltd.

No.618, Jiahe Road, Wanlida Industry Zone, Xiamen, Fujian, China.361006

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	Tablet					
Brand Name	BLU					
Model Name	TOUCHBOOK G7					
FCC ID	YHLBLUTBG7					
	GSM/GPRS/WCDMA/HSPA/HSPA+(Downlink Only)					
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40/					
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE					
	Conducted: 002107240163262					
IMEI Code	Radiation: 002107240163387					
	Conduction: 002107240163411					
HW Version	8859C					
SW Version	f6901_L0_MP2					
EUT Stage	Pre-Production					

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

1.4 Product Specification subjective to this standard

Product Specification subjective to this standard						
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz					
	802.11b : 14.65 dBm (0.0292 W)					
Maximum (Peak) Output Power to	802.11g : 22.83 dBm (0.1919 W)					
Antenna	802.11n HT20 : 22.79 dBm (0.1901 W)					
	802.11n HT40 : 22.83 dBm (0.1919 W)					
Antenna Type / Gain	802.11b/g/n : FPC Antenna with gain 2.3 dBi					
Type of Madulation	802.11b: DSSS (DBPSK / DQPSK / CCK)					
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM					

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 5 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

1.5 Modification of EUT

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

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (SHEN	ZHEN) INC.			
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,				
	Nanshan District, Shenzhen, Guangdong, P. R. China				
Test Site Location	TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595				
Took Cita No	Sportor	n Site No.			
Test Site No.	TH01-SZ	CO01-SZ			

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

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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 6 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

1.7 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03
- ANSI C63.10-2013

Remark:

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 7 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

2 Test Configuration of Equipment Under Test

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

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

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

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1	2412	7	2442
	2	2417	8	2447
0400 0400 F MU-	3	2422	9	2452
2400-2483.5 MHz	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 8 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

2.2 Pre-Scanned RF Power

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

	2.4GHz 802.11b RF Output Power (dBm)									
Pov	ver vs. Chan	nel	Power vs. Data Rate							
Channel	Frequency	Data Rate	Channel	2Mbps	5.5Mbps	11Mbps				
	(MHz)	1Mbps								
CH 01	2412 MHz	14.15								
CH 06	2437 MHz	14.24	CH 11	14.61	14.58	14.57				
CH 11	2462 MHz	<mark>14.65</mark>								

	2.4GHz 802.11g RF Output Power (dBm)											
Pov	wer vs. Char	nnel				Power vs.	Data Rate					
Channel	Frequency	Data Rate	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps		
	(MHz)	6Mbps										
CH 01	2412 MHz	22.16										
CH 06	2437 MHz	22.56	CH 11	22.71	22.64	22.65	22.58	22.61	22.54	22.53		
CH 11	2462 MHz	<mark>22.83</mark>										

	2.4GHz 802.11n HT20 RF Output Power (dBm)											
Power vs. Channel				Power vs. MCS Index								
Channel	Frequency (MHz)	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
	(IVITIZ)	MCS0										
CH 01	2412 MHz	22.13										
CH 06	2437 MHz	22.42	CH 11	22.71	22.67	22.69	22.74	22.65	22.63	22.59		
CH 11	2462 MHz	<mark>22.79</mark>										

	2.4GHz 802.11n HT40 RF Output Power (dBm)										
Pov	Power vs. Channel				F	Power vs.	MCS Index	(
Channel	Frequency	MCS Index	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
	(MHz)	MCS0									
CH 03	2422 MHz	22.69									
CH 06	2437 MHz	22.74	CH 09	22.37	21.89	21.94	21.75	21.59	21.71	21.77	
CH 09	2452 MHz	<mark>22.83</mark>									

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 9 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

2.3 Test Mode

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

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

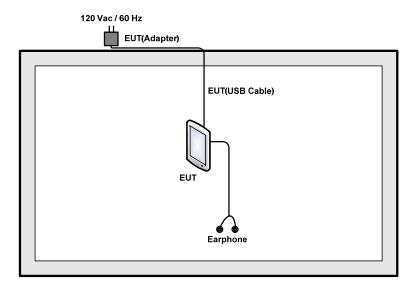
Test Cases			
AC Conducted Mode 1 : GSM850 Link + Bluetooth Link + WLAN Link + Earphone + USB Cable(Charging from Ada			
Emission			
Remark: For radiated test cases, the tests were performed with adapter, earphone and USB cable.			

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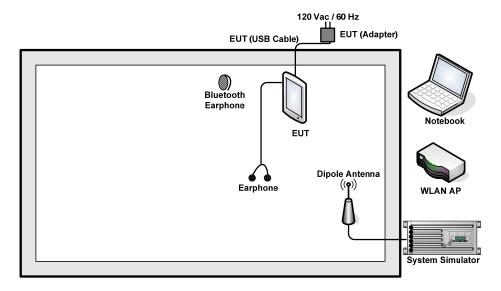
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 10 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 11 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-815	KA2DIR815A1	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Vostro1440	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
4.	Earphone	Lenovo	SH100	N/A	N/A	N/A
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A

Report No.: FR560304C

2.6 EUT Operation Test Setup

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

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

2.7 Measurement Results Explanation Example

For all conducted test items:

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

Page Number

Report Version

: 12 of 41

: Rev. 01

Report Issued Date: Jul. 14, 2015

Example:

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r03.
- 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.

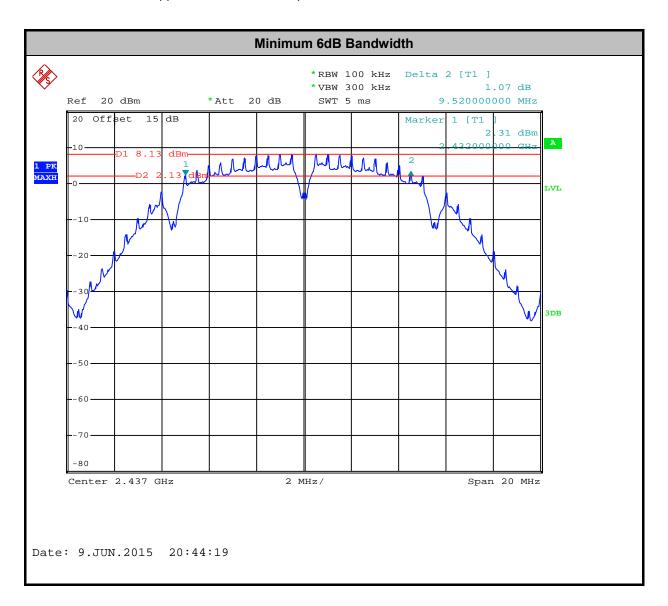
3.1.4 Test Setup



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 13 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

3.1.5 Test Result of 6dB Occupied Bandwidth

Please refer to Appendix A of this test report.



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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 14 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

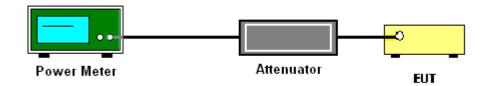
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A of this test report.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A of this test report.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03
- 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.

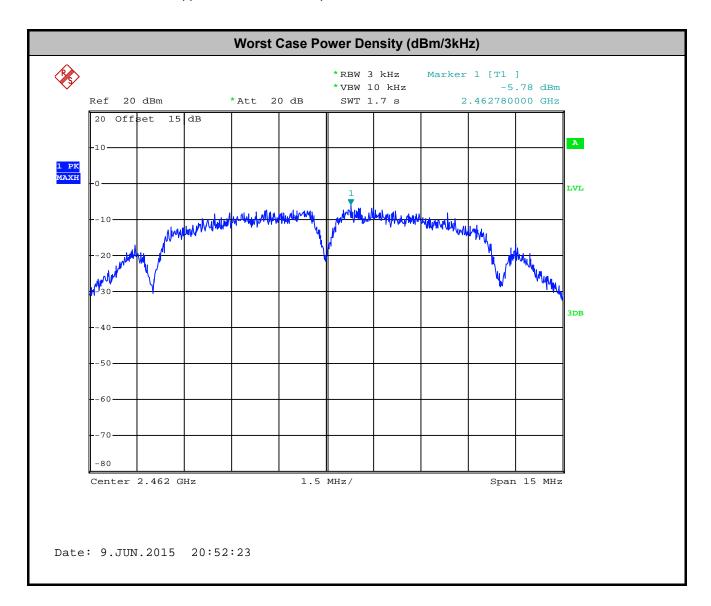
3.3.4 Test Setup



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 16 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A of this test report.



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 17 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



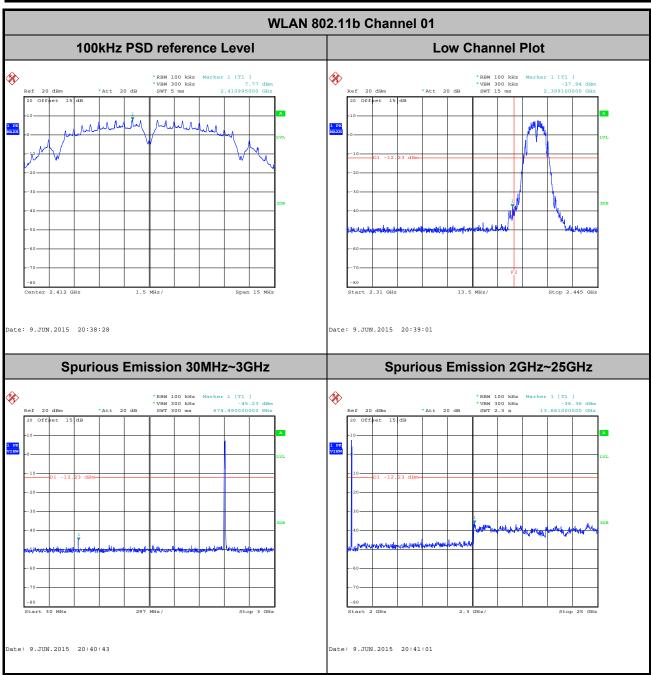
SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 18 of 41
Report Issued Date : Jul. 14, 2015

Report Version : Rev. 01

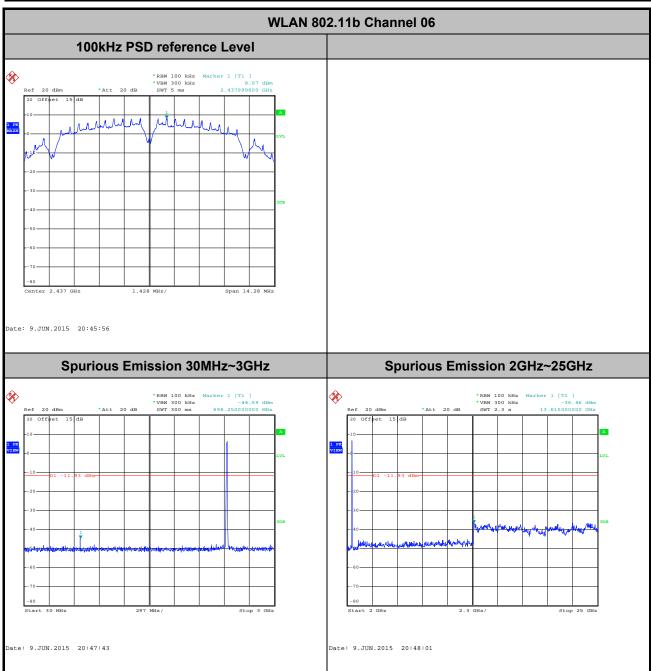
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	21~25 ℃
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Mygai Wang



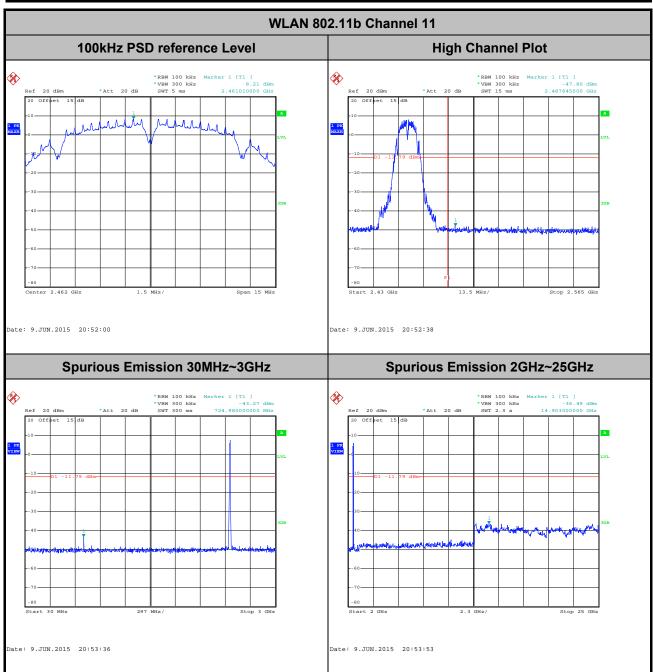
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 19 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11b	Temperature :	21~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Mygai Wang



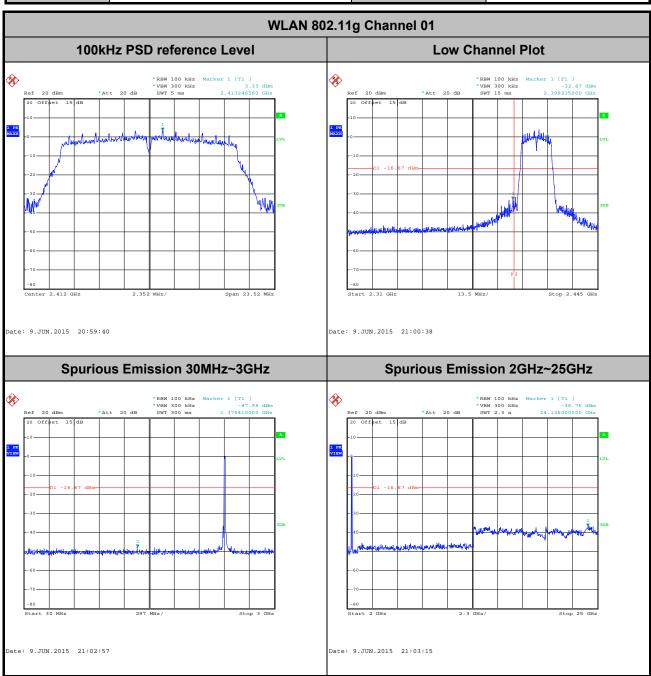
Page Number : 20 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11b	Temperature :	21~25℃
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Mygai Wang



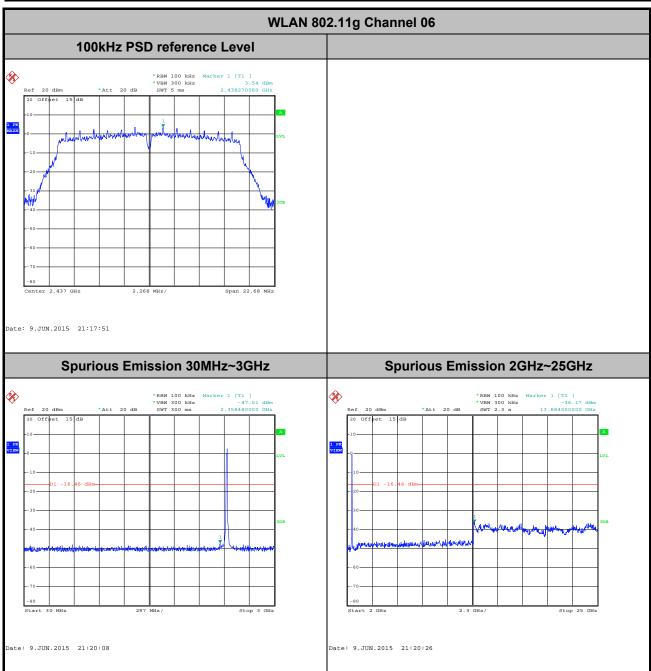
Page Number : 21 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11g	Temperature :	21~25℃
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Mygai Wang



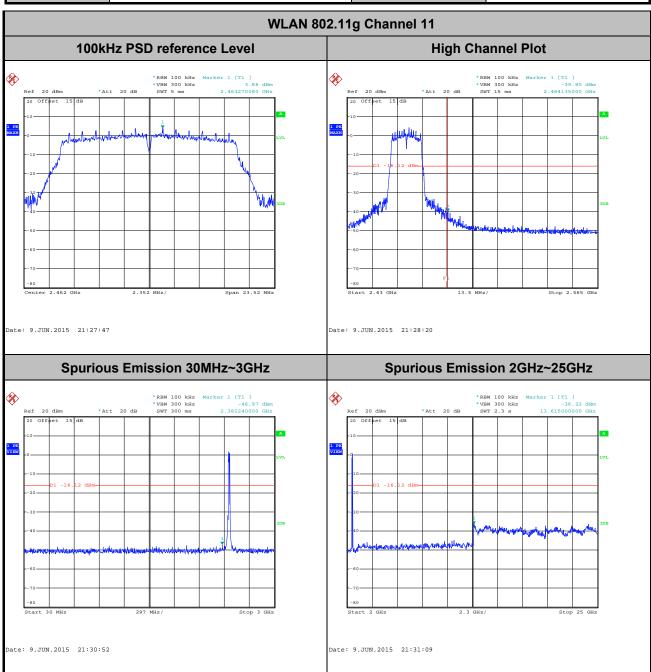
Page Number : 22 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11g	Temperature :	21~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Mygai Wang



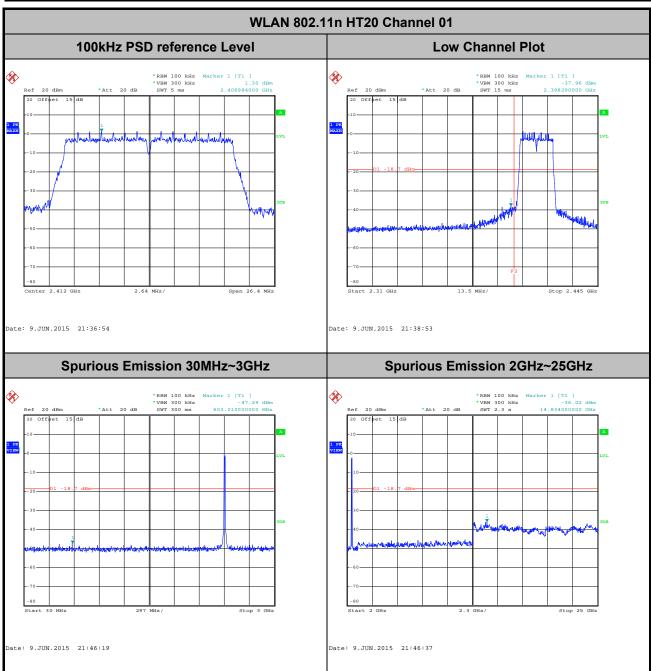
Page Number : 23 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11g	Temperature :	21~25℃
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Mygai Wang



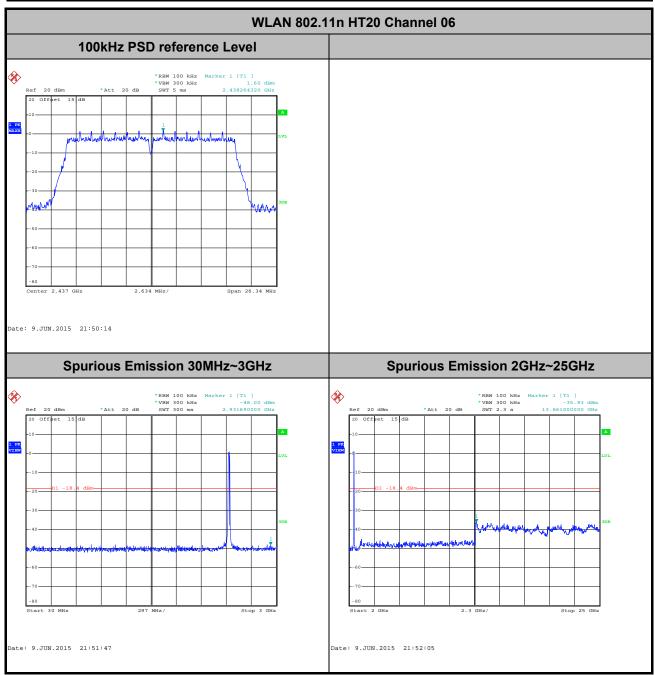
Page Number : 24 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11n HT20	Temperature :	21~25℃
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Mygai Wang



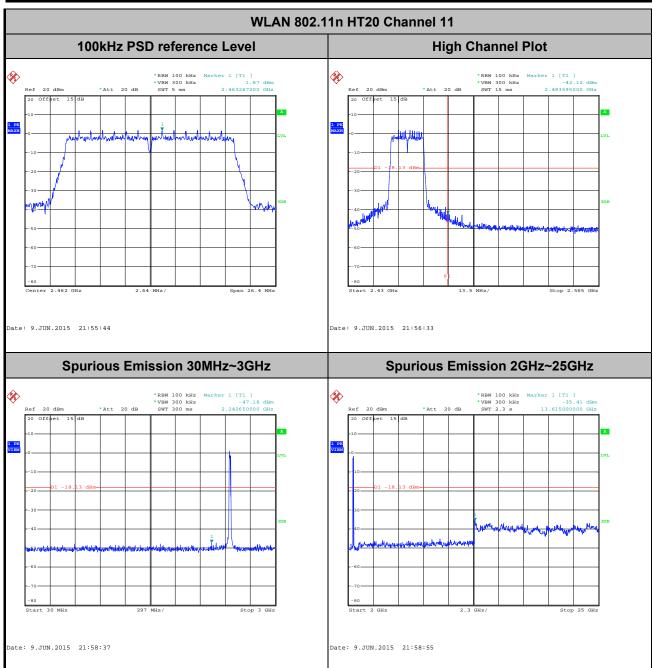
Page Number : 25 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11n HT20	Temperature :	21~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Mygai Wang



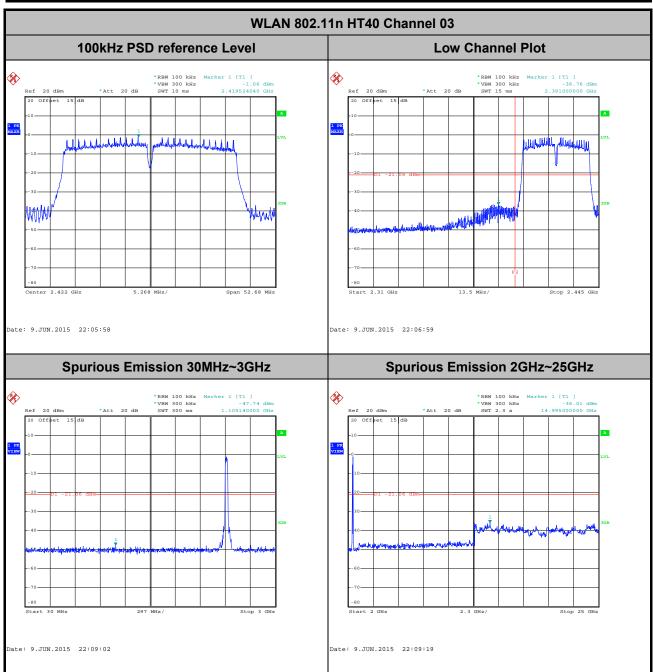
Page Number : 26 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11n HT20	Temperature :	21~25℃
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Mygai Wang



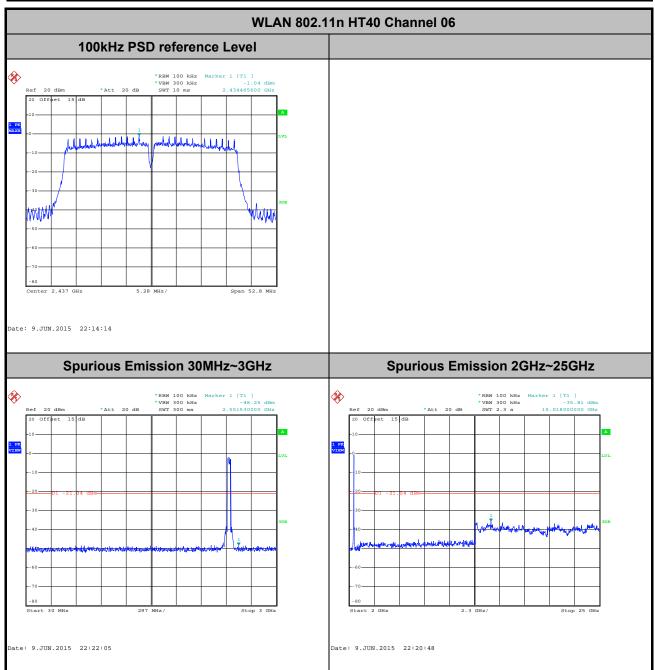
Page Number : 27 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11n HT40	Temperature :	21~25℃
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Mygai Wang



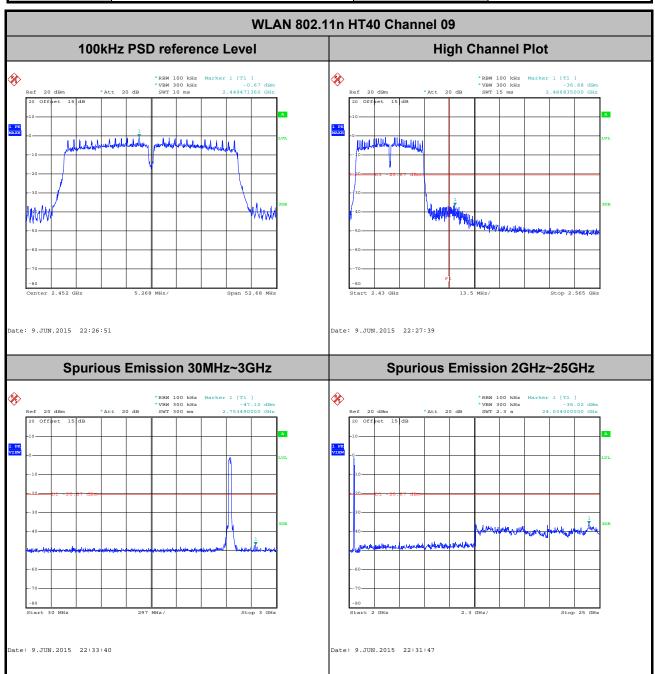
Page Number : 28 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11n HT40	Temperature :	21~25℃
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Mygai Wang



Page Number : 29 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Mode :	802.11n HT40	Temperature :	21~25℃
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Mygai Wang



Page Number : 30 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 31 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

3.5.3 Test Procedures

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

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	98.25	-	-	10Hz
802.11g	88.54	1.39	0.72	1kHz
2.4GHz 802.11n HT20	88.28	1.30	0.77	1kHz
2.4GHz 802.11n HT40	79.81	0.66	1.52	3kHz

FAX: 86-755-8637-9595 FCC ID : YHLBLUTBG7 Page Number : 32 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

3.5.4 Test Setup

For radiated emissions below 30MHz



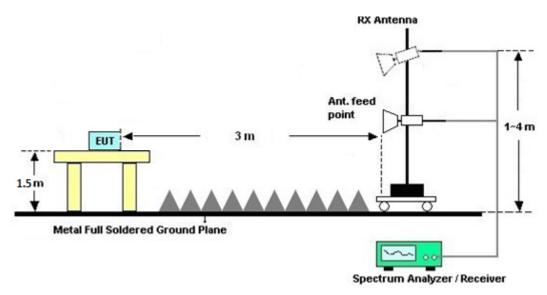
For radiated emissions from 30MHz to 1GHz



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number Report Issued Date: Jul. 14, 2015 Report Version

: Rev. 01

For radiated emissions above 1GHz



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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic) 3.5.7

Please refer to Appendix B.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 34 of 41 Report Issued Date: Jul. 14, 2015

Report No.: FR560304C

Report Version : Rev. 01

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	

^{*}Decreases with the logarithm of the frequency.

3.6.2 Measuring Instruments

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

3.6.3 **Test Procedures**

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

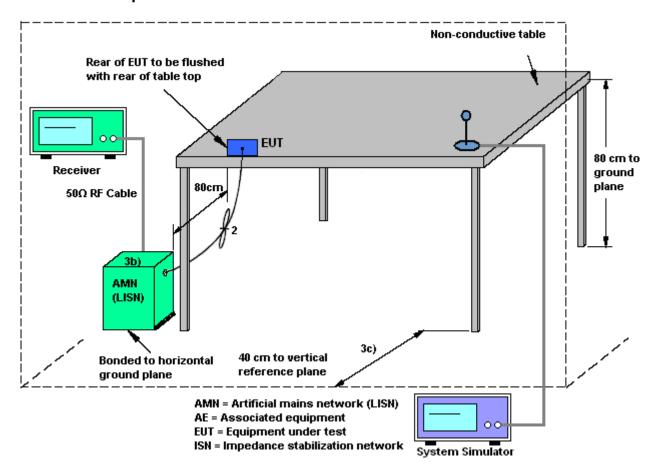
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7

: 35 of 41 Page Number Report Issued Date: Jul. 14, 2015 Report Version

: Rev. 01

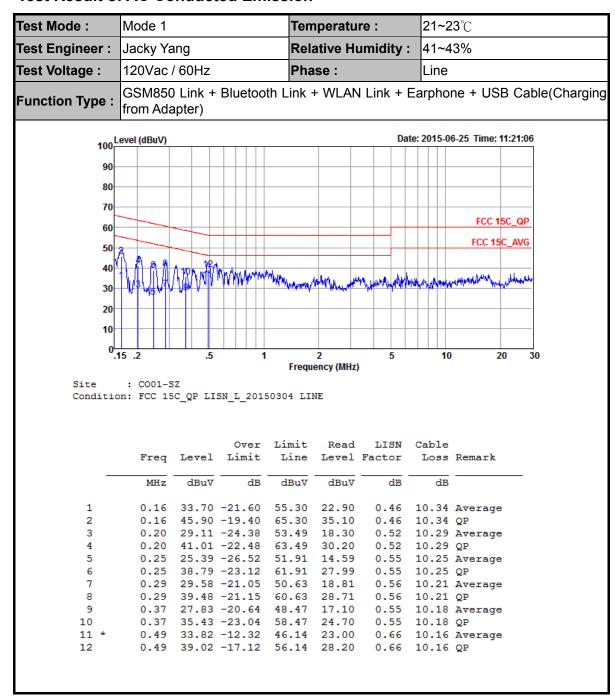


3.6.4 Test Setup



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 36 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

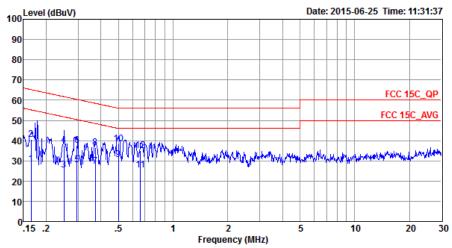
3.6.5 Test Result of AC Conducted Emission



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 37 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01



Test Mode :	Mode 1	Temperature :	21~23 ℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
IFIINCTION IVNA .	GSM850 Link + Bluetooth L from Adapter)	ink + WLAN Link + Ea	arphone + USB Cable(Charging
	evel (dBuV)	Date:	2015-06-25 Time: 11:31:37



Site : CO01-SZ

Condition: FCC 15C_QP LISN_N_20150304 NEUTRAL

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∇	dBu∇	dB	dB	
1	0.17	28.41	-26.80	55.21	17.60	0.47	10.34	Average
2	0.17	40.51	-24.70	65.21	29.70	0.47	10.34	QP
3	0.25	25.60	-26.13	51.73	14.81	0.55	10.24	Average
4	0.25	37.70	-24.03	61.73	26.91	0.55	10.24	QP
5	0.30	27.99	-22.38	50.37	17.20	0.59	10.20	Average
6	0.30	37.69	-22.68	60.37	26.90	0.59	10.20	QP
7	0.37	27.24	-21.19	48.43	16.50	0.56	10.18	Average
8	0.37	36.54	-21.89	58.43	25.80	0.56	10.18	QP
9 *	0.50	30.47	-15.54	46.01	19.70	0.61	10.16	Average
10	0.50	38.47	-17.54	56.01	27.70	0.61	10.16	QP
11	0.66	25.61	-20.39	46.00	14.90	0.56	10.15	Average
12	0.66	35.21	-20.79	56.00	24.50	0.56	10.15	QP

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 38 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

3.7 Antenna Requirements

3.7.1 **Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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

: 39 of 41 Page Number Report Issued Date: Jul. 14, 2015

Report No.: FR560304C

Report Version : Rev. 01

4 List of Measuring Equipment

					0 - 111 41			
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~40GHz	Jan. 28, 2015	Jun. 09, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 28, 2015	Jun. 09, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 28, 2015	Jun. 09, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	May 26, 2015	Jun. 18, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Jun. 18, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 06, 2015	Jun. 18, 2015	May 05, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Jun. 18, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Jun. 18, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Jun. 18, 2015	Sep. 03, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Jun. 18, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Jan. 28, 2015	Jun. 18, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Jun. 18, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 18, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 18, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz	Jan. 28, 2015	Jun. 25, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Jun. 25, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Jun. 25, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Sep. 29, 2014	Jun. 25, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWE	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Jun. 25, 2015	Oct. 23, 2015	Conduction (CO01-SZ)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 40 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

5 Uncertainty of Evaluation

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

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

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

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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : 41 of 41
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Appendix A. Conducted test results

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : A1 of A1
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Test Engineer:	Mygai Wang	Temperature:	21~25	°C
Test Date:	2015/6/9	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

	2.4GHz Band													
Mod.	Data Rate			Freq. Occupied BW (MHz)		6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail						
11b	1Mbps	1	1	2412	12.45	10.00	0.50	Pass						
11b	1Mbps	1	6	2437	12.50	9.52	0.50	Pass						
11b	1Mbps	1	11	2462	12.50	10.00	0.50	Pass						
11g	6Mbps	1	1	2412	17.30	15.68	0.50	Pass						
11g	6Mbps	1	6	2437	17.50	15.12	0.50	Pass						
11g	6Mbps	1	11	2462	17.50	15.68	0.50	Pass						
HT20	MCS0	1	1	2412	18.45	17.60	0.50	Pass						
HT20	MCS0	1	6	2437	18.45	17.56	0.50	Pass						
HT20	MCS0	1	11	2462	18.45	17.60	0.50	Pass						
HT40	MCS0	1	3	2422	36.30	35.12	0.50	Pass						
HT40	MCS0	CS0 1 6		2437	36.30	35.20	35.20 0.50							
HT40	MCS0	1	9	2452	36.30	35.12	0.50	Pass						

TEST RESULTS DATA Peak Power Table

	2.4GHz Band													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail				
11b	1Mbps	1	1	2412	14.15	30.00	2.30	16.45	36.00	Pass				
11b	1Mbps	1	6	2437	14.24	30.00	2.30	16.54	36.00	Pass				
11b	1Mbps	1	11	2462	14.65	30.00	2.30	16.95	36.00	Pass				
11g	6Mbps	1	1	2412	22.16	30.00	2.30 24.46		36.00	Pass				
11g	6Mbps	1	6	2437	22.56	30.00	2.30	24.86	36.00	Pass				
11g	6Mbps	1	11	2462	22.83	30.00	2.30	25.13	36.00	Pass				
HT20	MCS0	1	1	2412	22.13	30.00	2.30	24.43	36.00	Pass				
HT20	MCS0	1	6	2437	22.42	30.00	2.30	24.72	36.00	Pass				
HT20	MCS0	1	11	2462	22.79	30.00	2.30	25.09	36.00	Pass				
HT40	MCS0	1	3	2422	22.69	30.00	2.30	24.99	36.00	Pass				
HT40	MCS0	1	6	2437	22.74	30.00	2.30	25.04	36.00	Pass				
HT40	MCS0	1	9	2452	22.83	30.00	2.30	25.13	36.00	Pass				

TEST RESULTS DATA Average Power Table (Reporting Only)

	2.4GHz Band													
Mod.	Data Rate	NTX	TX CH. Freq. (MHz)		Duty Factor (dB)	Average Conducted Power (dBm)								
11b	1Mbps	1	1	2412	0.08	12.25								
11b	1Mbps	1	6	2437	0.08	12.33								
11b	1Mbps	1	11	2462	0.08	12.75								
11g	6Mbps	1	1	2412	0.53	11.36								
11g	6Mbps	1	6	2437	0.53	11.76								
11g	6Mbps	1	11	2462	0.53	12.14								
HT20	MCS0	1	1	2412	0.54	11.36								
HT20	MCS0	1	6	2437	0.54	11.71								
HT20	MCS0	1	11	2462	0.54	12.10								
HT40	MCS0	1	3	2422	0.98	11.54								
HT40	MCS0	1	6	2437	0.98	11.70								
HT40	MCS0	1	9	2452	0.98	11.81								

TEST RESULTS DATA Peak Power Density

	2.4GHz Band													
Mod.	Data Rate	NTX CH.		Freq. (MHz) Peak PSD (dBm /3kHz)		DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail						
11b	1Mbps	1	1	2412	-6.18	2.30	8.00	Pass						
11b	1Mbps	1	6	2437	-6.77	2.30	8.00	Pass						
11b	1Mbps	1	11	2462	-5.78	2.30	8.00	Pass						
11g	6Mbps	1	1	2412	-10.52	2.30	8.00	Pass						
11g	6Mbps	1	6	2437	-10.67	2.30	8.00	Pass						
11g	6Mbps	1	11	2462	-10.33	2.30	8.00	Pass						
HT20	MCS0	1	1	2412	-12.66	2.30	8.00	Pass						
HT20	MCS0	1	6	2437	-12.33	2.30	8.00	Pass						
HT20	MCS0	1	11	2462	-12.05	2.30	8.00	Pass						
HT40	MCS0	1	3	2422	-15.87	2.30 8.00		Pass						
HT40	MCS0	CS0 1 6		2437	-16.16	2.30	8.00	Pass						
HT40	MCS0	1	9	2452	-14.48	2.30	8.00	Pass						

Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2378.04	46.45	-27.55	74	49.49	27.19	4.79	35.02	166	133	Р	Н
		2389.92	32.31	-21.69	54	35.27	27.25	4.79	35	166	133	Α	Н
	*	2412	101.34	-	-	104.21	27.31	4.82	35	166	133	Р	Н
	*	2412	95.25	-	-	98.12	27.31	4.82	35	166	133	Α	Н
CH 01 2412MHz		2386.95	41.83	-32.17	74	44.81	27.25	4.79	35.02	156	137	Р	V
2412141112		2389.47	27.58	-26.42	54	30.56	27.25	4.79	35.02	156	137	Α	V
	*	2412	89.84	-	-	92.71	27.31	4.82	35	156	137	Р	V
	*	2412	84.01	-	-	86.88	27.31	4.82	35	156	137	Α	V
		2385.24	47.32	-26.68	74	50.36	27.19	4.79	35.02	162	143	Р	Н
		2381.55	33.81	-20.19	54	36.85	27.19	4.79	35.02	162	143	Α	Н
	*	2437	103.25	-	-	105.98	27.42	4.82	34.97	162	143	Р	Н
	*	2437	97.16	-	-	99.89	27.42	4.82	34.97	162	143	Α	Н
		2489.48	50.02	-23.98	74	52.45	27.6	4.89	34.92	162	143	Р	Н
802.11b		2488.52	34.98	-19.02	54	37.41	27.6	4.89	34.92	162	143	Α	Н
CH 06 2437MHz		2325.48	41.34	-32.66	74	44.7	27.01	4.7	35.07	232	189	Р	V
2437 WIF1Z		2381.1	28.1	-25.9	54	31.14	27.19	4.79	35.02	232	189	Α	V
	*	2438.41	94.44	-	-	97.17	27.42	4.82	34.97	232	189	Р	V
	*	2438.577	88.51	-	-	91.24	27.42	4.82	34.97	232	189	Α	V
		2495.84	41.65	-32.35	74	44.06	27.6	4.89	34.9	232	189	Р	V
		2490.72	27.91	-26.09	54	30.34	27.6	4.89	34.92	232	189	Α	V

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B1 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01



	*	2462	103.15	-	-	105.77	27.48	4.85	34.95	164	143	Р	Н
	*	2462	97.12	-	-	99.74	27.48	4.85	34.95	164	143	Α	Н
		2485.8	50.4	-23.6	74	52.93	27.54	4.85	34.92	164	143	Р	Н
802.11b		2486.44	37.46	-16.54	54	39.99	27.54	4.85	34.92	164	143	Α	Н
CH 11 2462MHz	*	2462	94.41	-	1	97.03	27.48	4.85	34.95	225	206	Р	V
2402141112	*	2462	88.52	-	1	91.14	27.48	4.85	34.95	225	206	Α	V
		2497.36	42.68	-31.32	74	45.09	27.6	4.89	34.9	225	206	Р	V
		2486.36	29.37	-24.63	54	31.9	27.54	4.85	34.92	225	206	Α	V
Remark		o other spurious		Peak and	Average lim	nit line.							

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B2 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		4824	50.69	-23.31	74	71.06	31.05	6.97	58.39	160	360	Р	Н
CH 01 2412MHz		4824	43.57	-30.43	74	63.94	31.05	6.97	58.39	160	360	Р	V
		4874	49.45	-24.55	74	70	31.12	6.99	58.66	151	360	Р	Н
802.11b		7311	47.23	-26.77	74	61.67	35.96	8.22	58.62	174	100	Р	Н
CH 06 2437MHz		4874	42.61	-31.39	74	63.16	31.12	6.99	58.66	151	360	Р	V
240711112		7311	47.1	-26.9	74	61.54	35.96	8.22	58.62	174	100	Р	V
000 441		4924	46.35	-27.65	74	66.68	31.19	7	58.52	155	347	Р	Н
802.11b		7386	47.32	-26.68	74	61.51	36.08	8.27	58.54	189	274	Р	Н
CH 11 2462MHz		4924	42.43	-31.57	74	62.76	31.19	7	58.52	155	347	Р	V
2402191112		7386	46.62	-27.38	74	60.81	36.08	8.27	58.54	189	274	Р	V

Remark

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B3 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

^{1.} No other spurious found.

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.11	58.89	-15.11	74	61.87	27.25	4.79	35.02	159	217	Р	Н
		2389.56	37.42	-16.58	54	40.4	27.25	4.79	35.02	159	217	Α	Н
000.44	*	2412	102.28	1	-	105.15	27.31	4.82	35	159	217	Р	Н
802.11g CH 01	*	2412	91.65	1	1	94.52	27.31	4.82	35	159	217	Α	Н
2412MHz		2389.56	53.93	-20.07	74	56.91	27.25	4.79	35.02	236	204	Р	V
2412111112		2389.83	32.43	-21.57	54	35.39	27.25	4.79	35	236	204	Α	V
	*	2412	95.3	ı	1	98.17	27.31	4.82	35	236	204	Р	V
	*	2412	85.07	-	-	87.94	27.31	4.82	35	236	204	Α	V
		2389.92	48.6	-25.4	74	51.56	27.25	4.79	35	152	146	Р	Н
		2389.47	36.66	-17.34	54	39.64	27.25	4.79	35.02	152	146	Α	Н
	*	2437	103.09	-	-	105.82	27.42	4.82	34.97	152	146	Р	Н
	*	2437	92.89	1	-	95.62	27.42	4.82	34.97	152	146	Α	Н
		2484.28	50.47	-23.53	74	53	27.54	4.85	34.92	152	146	Р	Н
802.11g		2483.76	37.36	-16.64	54	39.89	27.54	4.85	34.92	152	146	Α	Н
CH 06 2437MHz		2385.51	42.72	-31.28	74	45.7	27.25	4.79	35.02	229	208	Р	V
Z4J/IVITIZ		2389.38	30.02	-23.98	54	33	27.25	4.79	35.02	229	208	Α	V
	*	2437	95.16	-	-	97.89	27.42	4.82	34.97	229	208	Р	V
	*	2437	85.12	-	-	87.85	27.42	4.82	34.97	229	208	Α	V
		2485	43.19	-30.81	74	45.72	27.54	4.85	34.92	229	208	Р	V
		2485	30.22	-23.78	54	32.75	27.54	4.85	34.92	229	208	Α	V

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B4 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01



107.22 27.48 34.95 166 Р 2462 104.6 4.85 136 Н * 2462 94.73 97.35 27.48 4.85 34.95 166 136 Н Α 2483.6 61.82 -12.18 74 64.35 27.54 4.85 34.92 166 136 Н 802.11g 2484.04 41.94 -12.06 54 44.47 27.54 4.85 34.92 166 136 Α Н CH 11 2462 93.05 95.67 27.48 4.85 34.95 151 93 Ρ ٧ 2462MHz 2462 82.89 85.51 27.48 34.95 151 ٧ 4.85 93 Α 57.03 Р ٧ 2483.68 54.5 -19.5 74 27.54 4.85 34.92 151 93 ٧ -20.81 151 Α 2483.92 33.19 54 35.72 27.54 4.85 34.92 93 No other spurious found. Remark All results are PASS against Peak and Average limit line.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B5 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01		4824	48.91	-25.09	74	69.28	31.05	6.97	58.39	151	360	Р	Н
2412MHz		4824	44.29	-29.71	74	64.66	31.05	6.97	58.39	151	360	Р	V
000.44		4874	49.23	-24.77	74	69.78	31.12	6.99	58.66	168	360	Р	Н
802.11g CH 06 2437MHz		7311	47.21	-26.79	74	61.65	35.96	8.22	58.62	174	100	Р	Н
		4874	43.72	-30.28	74	64.27	31.12	6.99	58.66	168	360	Р	V
2407111112		7311	46.22	-27.78	74	60.66	35.96	8.22	58.62	174	100	Р	V
000.44		4924	46.37	-27.63	74	66.7	31.19	7	58.52	165	347	Р	Н
802.11g CH 11 - 2462MHz -		7386	46.56	-27.44	74	60.75	36.08	8.27	58.54	185	274	Р	Н
		4924	44.29	-29.71	74	64.62	31.19	7	58.52	165	347	Р	V
2-102 WII 12		7386	46.01	-27.99	74	60.2	36.08	8.27	58.54	185	274	Р	٧

Remark

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B6 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

^{1.} No other spurious found.

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)		(H/V)
		2389.11	59.56	-14.44	74	62.54	27.25	4.79	35.02	174	175	Р	Н
		2389.92	38.23	-15.77	54	41.19	27.25	4.79	35	174	175	Α	Н
802.11n	*	2412	100.16	1	-	103.03	27.31	4.82	35	174	175	Р	Н
HT20	*	2412	89.59	-	-	92.46	27.31	4.82	35	174	175	Α	Н
CH 01		2389.83	49.3	-24.7	74	52.26	27.25	4.79	35	236	65	Р	٧
2412MHz		2389.74	30.92	-23.08	54	33.9	27.25	4.79	35.02	236	65	Α	٧
	*	2412	91.4	-	-	94.27	27.31	4.82	35	236	65	Р	٧
	*	2412	81.42	-	-	84.29	27.31	4.82	35	236	65	Α	٧
		2389.56	47.76	-26.24	74	50.74	27.25	4.79	35.02	150	177	Р	Н
		2389.83	34.21	-19.79	54	37.17	27.25	4.79	35	150	177	Α	Н
	*	2437	100.8	-	-	103.53	27.42	4.82	34.97	150	177	Р	Н
	*	2437	90.07	-	-	92.8	27.42	4.82	34.97	150	177	Α	Н
802.11n		2485.2	47.25	-26.75	74	49.78	27.54	4.85	34.92	150	177	Р	Н
HT20		2485.08	34.36	-19.64	54	36.89	27.54	4.85	34.92	150	177	Α	Н
CH 06		2385.51	42.72	-31.28	74	45.7	27.25	4.79	35.02	231	207	Р	٧
2437MHz		2389.29	29.39	-24.61	54	32.37	27.25	4.79	35.02	231	207	Α	٧
	*	2437	93.23	-	-	95.96	27.42	4.82	34.97	231	207	Р	V
	*	2437	82.1	-	-	84.83	27.42	4.82	34.97	231	207	Α	V
		2485.24	42.3	-31.7	74	44.83	27.54	4.85	34.92	231	207	Р	V
		2483.6	29.1	-24.9	54	31.63	27.54	4.85	34.92	231	207	Α	V

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B7 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01



	*	2462	101.87	-	-	104.49	27.48	4.85	34.95	168	175	Р	Н
	*	2462	91.35	-	-	93.97	27.48	4.85	34.95	168	175	Α	Н
802.11n		2485.48	61.03	-12.97	74	63.56	27.54	4.85	34.92	168	175	Р	Н
HT20		2483.56	39.86	-14.14	54	42.39	27.54	4.85	34.92	168	175	Α	Н
CH 11	*	2462	91.16	-	1	93.78	27.48	4.85	34.95	152	78	Р	V
2462MHz	*	2462	80.74	-	1	83.36	27.48	4.85	34.95	152	78	Α	V
		2488.36	51.31	-22.69	74	53.74	27.6	4.89	34.92	152	78	Р	V
		2483.68	31.37	-22.63	54	33.9	27.54	4.85	34.92	152	78	Α	V
Remark	No other spurious found.												

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B8 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol
	NOLE	rrequericy	Level						-				roi.
Ant.		/ *** * *	(15) ()	Limit	Line	Level	Factor	Loss	Factor	Pos		Avg.	4100
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4824	47.31	-26.69	74	67.68	31.05	6.97	58.39	192	360	P	Н
HT20		4024	47.51	-20.09	74	07.00	31.03	0.97	30.39	192	300		''
CH 01													
2412MHz		4824	43.87	-30.13	74	64.24	31.05	6.97	58.39	192	360	Р	V
241211112													
802.11n		4874	47.14	-26.86	74	67.69	31.12	6.99	58.66	169	360	Р	Н
HT20		7311	47.19	-26.81	74	61.63	35.96	8.22	58.62	174	100	Р	Н
CH 06		4874	43.38	-30.62	74	63.93	31.12	6.99	58.66	169	360	Р	٧
2437MHz		7311	47.3	-26.7	74	61.74	35.96	8.22	58.62	174	100	Р	٧
802.11n		4924	46.6	-27.4	74	66.93	31.19	7	58.52	240	347	Р	Н
HT20		7386	46.46	-27.54	74	60.65	36.08	8.27	58.54	165	274	Р	Н
CH 11		4924	42.94	-31.06	74	63.27	31.19	7	58.52	240	347	Р	V
2462MHz		7386	46.78	-27.22	74	60.97	36.08	8.27	58.54	165	274	Р	V
Remark		other spurious		eak and	Average lim	it line.							

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7

: B9 of B15 Page Number Report Issued Date: Jul. 14, 2015 Report Version : Rev. 01

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.			20101	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)		(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	(H/V)
		2388.84	62.55	-11.45	74	65.53	27.25	4.79	35.02	170	170	Р	Н
		2389.83	39.57	-14.43	54	42.53	27.25	4.79	35	170	170	Α	Н
	*	2422	97.59	-	-	100.37	27.37	4.82	34.97	170	170	Р	Н
	*	2422	87.27	1	-	90.05	27.37	4.82	34.97	170	170	Α	Н
802.11n		2485.76	51.66	-22.34	74	54.19	27.54	4.85	34.92	170	170	Р	Н
HT40		2484.52	34.92	-19.08	54	37.45	27.54	4.85	34.92	170	170	Α	Н
CH 03		2389.29	50.1	-23.9	74	53.08	27.25	4.79	35.02	151	136	Р	V
2422MHz		2388.75	30.01	-23.99	54	32.99	27.25	4.79	35.02	151	136	Α	V
	*	2422	87.29	1	-	90.07	27.37	4.82	34.97	151	136	Р	V
	*	2422	77.29	1	-	80.07	27.37	4.82	34.97	151	136	Α	V
		2487	41.51	-32.49	74	44.04	27.54	4.85	34.92	151	136	Р	V
		2498	28.91	-25.09	54	31.32	27.6	4.89	34.9	151	136	Α	V
		2388.21	55.97	-18.03	74	58.95	27.25	4.79	35.02	150	49	Р	Н
		2389.74	36.17	-17.83	54	39.15	27.25	4.79	35.02	150	49	Α	Н
	*	2437	97.93	1	-	100.66	27.42	4.82	34.97	150	49	Р	Н
	*	2437	87.59	1	-	90.32	27.42	4.82	34.97	150	49	Α	Н
802.11n		2487.96	59.29	-14.71	74	61.76	27.6	4.85	34.92	150	49	Р	Н
HT40		2484.08	38.13	-15.87	54	40.66	27.54	4.85	34.92	150	49	Α	Н
CH 06		2389.65	47.32	-26.68	74	50.3	27.25	4.79	35.02	155	48	Р	V
2437MHz		2389.92	30	-24	54	32.96	27.25	4.79	35	155	48	Α	V
	*	2437	88.59	-	-	91.32	27.42	4.82	34.97	155	48	Р	V
	*	2437	78.08	1	-	80.81	27.42	4.82	34.97	155	48	Α	V
		2483.84	50.69	-23.31	74	53.22	27.54	4.85	34.92	155	48	Р	V
		2484.28	30.94	-23.06	54	33.47	27.54	4.85	34.92	155	48	Α	V

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B10 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01



		2389.74	50.31	-23.69	74	53.29	27.25	4.79	35.02	150	358	Р	Н
		2389.56	33.05	-20.95	54	36.03	27.25	4.79	35.02	150	358	Α	Н
	*	2452	96.67	-	-	99.35	27.42	4.85	34.95	150	358	Р	Н
	*	2452	86.44	-	-	89.12	27.42	4.85	34.95	150	358	Α	Н
802.11n		2487.16	63.99	-10.01	74	66.52	27.54	4.85	34.92	150	358	Р	Н
HT40		2484.56	40.43	-13.57	54	42.96	27.54	4.85	34.92	150	358	Α	Н
CH 09		2384.52	43.45	-30.55	74	46.49	27.19	4.79	35.02	237	41	Р	V
2452MHz		2389.47	29.04	-24.96	54	32.02	27.25	4.79	35.02	237	41	Α	V
	*	2452	90.1	-	-	92.78	27.42	4.85	34.95	237	41	Р	V
	*	2452	79.83	-	-	82.51	27.42	4.85	34.95	237	41	Α	V
		2486.44	56.37	-17.63	74	58.9	27.54	4.85	34.92	237	41	Р	V
		2483.52	34.36	-19.64	54	36.89	27.54	4.85	34.92	237	41	Α	V
		•	•	•	•	•	•	•	•	•	•		

Remark

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B11 of B15 Report Issued Date : Jul. 14, 2015 Report Version : Rev. 01

^{1.} No other spurious found.

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4844	46.8	-27.2	74	67.24	31.07	6.97	58.48	170	360	Р	Н
HT40		7266	46.47	-27.53	74	60.9	35.91	8.19	58.53	200	360	Р	Н
CH 03		4844	42.94	-31.06	74	63.38	31.07	6.97	58.48	170	360	Р	٧
2422MHz		7266	47.02	-26.98	74	61.45	35.91	8.19	58.53	200	360	Р	٧
802.11n		4874	45.83	-28.17	74	66.38	31.12	6.99	58.66	159	163	Р	Н
HT40		7311	46.46	-27.54	74	60.9	35.96	8.22	58.62	172	360	Р	Н
CH 06		4874	43.44	-30.56	74	63.99	31.12	6.99	58.66	159	163	Р	٧
2437MHz		7311	46.29	-27.71	74	60.73	35.96	8.22	58.62	172	360	Р	٧
802.11n		4904	44.71	-29.29	74	65.18	31.17	7	58.64	231	360	Р	Н
HT40		7356	46.8	-27.2	74	61.09	36.03	8.25	58.57	187	320	Р	Н
CH 09		4904	42.95	-31.05	74	63.42	31.17	7	58.64	231	360	Р	٧
2452MHz		7356	47.16	-26.84	74	61.45	36.03	8.25	58.57	187	320	Р	V
			ı	ı		ı			1	ı	ı	1	1

Remark

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B12 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

^{1.} No other spurious found.

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

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		103.72	29.42	-14.08	43.5	49.18	12.21	1.38	33.35	120	152	Р	Н
		207.51	27.92	-15.58	43.5	49.11	10.39	1.57	33.15			Р	Н
		312.27	18.83	-27.17	46	35.76	14.14	1.94	33.01			Р	Н
		519.85	24.85	-21.15	46	36.79	18.07	2.41	32.42			Р	Н
2.4GHz		623.64	24.47	-21.53	46	34.94	18.96	2.64	32.07			Р	Н
802.11n		683.78	24.25	-21.75	46	34.09	19.38	2.71	31.93			Р	Н
HT40		94.99	24.52	-18.98	43.5	45.02	11.5	1.38	33.38			Р	V
LF		156.1	18.2	-25.3	43.5	38.84	11.06	1.53	33.23			Р	V
		207.51	18.56	-24.94	43.5	39.75	10.39	1.57	33.15			Р	V
		311.3	20.12	-25.88	46	37.08	14.11	1.94	33.01			Р	V
		416.06	23.01	-22.99	46	36.79	16.73	2.22	32.73			Р	V
		519.85	31.59	-14.41	46	43.53	18.07	2.41	32.42	125	211	Р	V
Remark		o other spurious		mit line.									

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B13 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

Note symbol

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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUTBG7 Page Number : B14 of B15
Report Issued Date : Jul. 14, 2015
Report Version : Rev. 01

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

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

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

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

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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