FCC RF Test Report

APPLICANT CT Asia

EQUIPMENT **Smartphone**

BRAND NAME BLU

MODEL NAME LIFE ONE MARKETING NAME LIFE ONE

FCC ID YHLBLULIFEONE50

STANDARD FCC Part 15 Subpart C §15.247

CLASSIFICATION (DTS) Digital Transmission System

The product was received on Apr. 04, 2015 and testing was completed on Apr. 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.

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Page Number : 1 of 43 Report Issued Date: May 20, 2015

Testing Laboratory

Report No.: FR540401C

Report Version : Rev. 01

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
su	MMAF	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	1.1	Applicant	
	1.2	Manufacturer	
	1.3	Product Feature of Equipment Under Test	
	1.4	Product Specification subjective to this standard	
	1.5	Modification of EUT	
	1.6	Testing Location	
	1.7	Applicable Standards	7
2	TEST	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	13
3	TEST	「RESULT	14
	3.1	6dB and 99% Bandwidth Measurement	14
	3.2	Output Power Measurement	16
	3.3	Power Spectral Density Measurement	18
	3.4	Conducted Band Edges and Spurious Emission Measurement	20
	3.5	Radiated Band Edges and Spurious Emission Measurement	33
	3.6	AC Conducted Emission Measurement	37
	3.7	Antenna Requirements	41
4	LIST	OF MEASURING EQUIPMENT	42
5	UNC	ERTAINTY OF EVALUATION	43
ΑP	PEND	OIX A. CONDUCTED TEST RESULTS	
ΑP	PEND	IX B. RADIATED TEST RESULTS	
ΑP	PEND	OIX C. SETUP PHOTOGRAPHS	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 2 of 43 Report Issued Date: May 20, 2015 Report Version

: Rev. 01

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR540401C	Rev. 01	Initial issue of report	May 20, 2015

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 3 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	RSS-210 A8.2(a)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	RSS-Gen 6.6	99% Bandwidth	-	Pass	-
3.2	15.247(b)	RSS-210 A8.4	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	RSS-210 A8.2(b)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15 247/d)	RSS-210	Conducted Band Edges	< 20dDa	Pass	-
3.4	15.247(d)	A8.5	Conducted Spurious Emission	- ≤ 20dBc	Pass	-
3.5	15.247(d)	RSS-210 A8.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.36 dB at 120.210 MHz
3.6	15.207	RSS-Gen 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 10.05 dB at 2.330 MHz
3.7	15.203 & 15.247(b)	RSS-210 A8.4	Antenna Requirement	N/A	Pass	-

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 4 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

General Description 1

1.1 Applicant

CT Asia

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

1.2 Manufacturer

Tinno Mobile Technology Corp.

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

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smartphone
Brand Name	BLU
Model Name	LIFE ONE
Marketing Name	LIFE ONE
FCC ID	YHLBLULIFEONE50
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/LTE WLAN2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.0 LE
IMEI Code	Conducted: 353919026682223/353924026682223 Conduction: 353919026681811/353924026681811 Radiation: 353924027113038/353924027125032
HW Version	V1.0
SW Version	BLU_LIFEONE_V04_GENERIC
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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 5 of 43 Report Issued Date: May 20, 2015 Report Version

: Rev. 01

1.4 Product Specification subjective to this standard

Product Specific	cation subjective to this standard
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz
	802.11b : 16.77 dBm (0.0475 W)
Maximum (Peak) Output Power to	802.11g : 22.05 dBm (0.1603 W)
Antenna	802.11n HT20 : 21.12 dBm (0.1294 W)
	802.11n HT40 : 21.09 dBm (0.1285 W)
	802.11b : 12.35MHz
90% Occupied Pandwidth	802.11g : 18.60MHz
99% Occupied Bandwidth	802.11n HT20 : 19.35MHz
	802.11n HT40 : 36.90MHz
Antenna Type/Gain	802.11b/g/n: PIFA Antenna with gain 2.00 dBi
Type of Medulation	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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 6 of 43
Report Issued Date : May 20, 2015

Report No. : FR540401C

Report Version : Rev. 01

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (SHEN:	ZHEN) INC.
Test Site No.	Sportor TH01-SZ	Site No.

Test Site	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398				
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755- 3320-2398				
Toot Site No	Sporton Site No.	FCC/IC Registration No.			
Test Site No.	03CH01-SZ	Sporton Site No. FCC/IC Registration No.			

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

1.7 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- ANSI C63.10-2013
- IC RSS-210 Issue 8
- IC RSS-Gen Issue 4

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: YHLBLULIFEONE50 Page Number : 7 of 43
Report Issued Date : May 20, 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 (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 2402 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: YHLBLULIFEONE50 Page Number : 8 of 43
Report Issued Date : May 20, 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)									
Po	wer vs. Chan	inel	Power vs. Data Rate							
Channel	Channel Frequency MHz) Data Rate 1Mbps		Channel	2Mbps	5.5Mbps	11Mbps				
CH 01	2412 MHz	<mark>16.77</mark>		16.64	16.71					
CH 06	2437 MHz	14.16	CH 01			16.69				
CH 11	2462 MHz	16.19								

	2.4GHz 802.11g RF Output Power (dBm)										
Power vs. Channel				Power vs. Data Rate							
Channel	Frequency (MHz)	Data Rate 6Mbps	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
CH 01	2412 MHz	21.72									
CH 06	2437 MHz	20.56	CH 11	21.96	21.98	21.95	22.02	22.01	21.98	22.03	
CH 11	2462 MHz	<mark>22.05</mark>									

	2.4GHz 802.11n HT20 RF Output Power (dBm)										
Power vs. Channel				Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 01	2412 MHz	20.60									
CH 06	2437 MHz	19.95	CH 11	21.08	21.05	21.06	21.05	21.10	21.04	21.01	
CH 11	2462 MHz	<mark>21.12</mark>					i				

	2.4GHz 802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs. MCS Index								
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 03	2422 MHz	20.48									
CH 06	2437 MHz	20.65	CH 09	21.08	21.05	21.06	21.04	20.98	20.96	21.04	
CH 09	2452 MHz	<mark>21.09</mark>									

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 9 of 43

Report Issued Date : May 20, 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.

<2.4GHz>

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

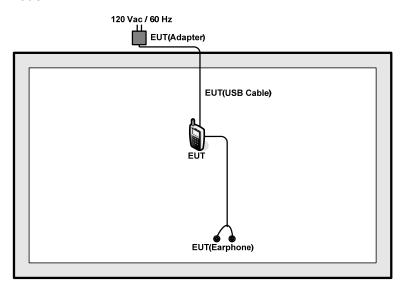
Test Cases				
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging from Adapter)			
Remark: For Radiated Test Cases, The tests were performance with Adapter, Earphone, and USB Cable.				

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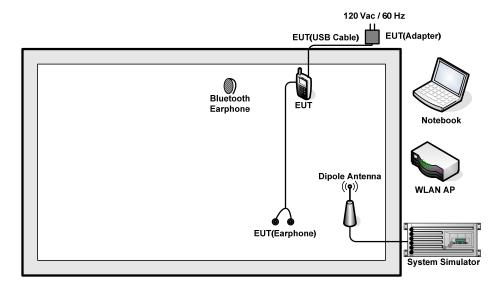
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 10 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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: YHLBLULIFEONE50 Page Number : 11 of 43
Report Issued Date : May 20, 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	KA2IR815A1	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	E540	PRC4	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A

2.6 EUT Operation Test Setup

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

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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 12 of 43 Report Issued Date: May 20, 2015 Report Version

: Rev. 01

2.7 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

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

= 5.0 + 10 = 15.0 (dB)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 13 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

3.1.2 Measuring Instruments

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 v03r02.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
- 6. Measure and record the results in the test report.

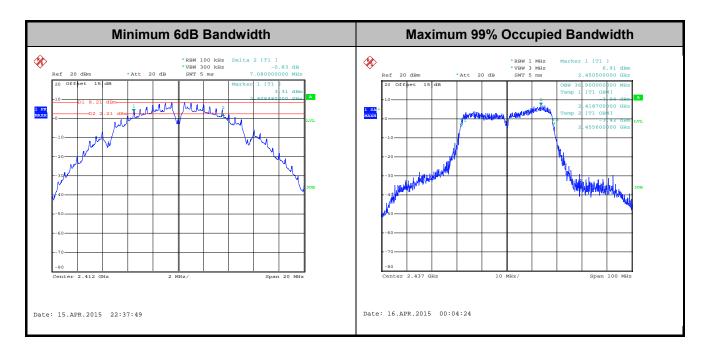
3.1.4 Test Setup



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 14 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

3.1.5 Test Result of 6dB and 99% 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: YHLBLULIFEONE50 Page Number : 15 of 43
Report Issued Date : May 20, 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 v03r02.
- 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



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 16 of 43
Report Issued Date : May 20, 2015

Report No.: FR540401C

Report Version : Rev. 01

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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 17 of 43 Report Issued Date: May 20, 2015

Report No.: FR540401C

Report Version : Rev. 01

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 v03r02
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.

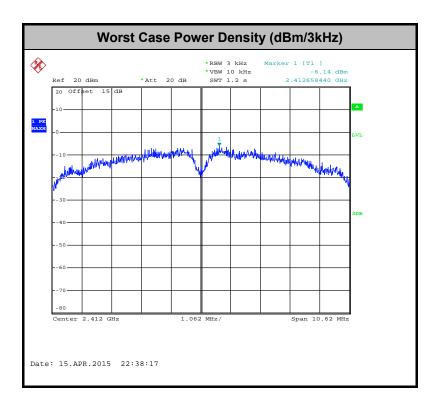
3.3.4 Test Setup



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 18 of 43
Report Issued Date : May 20, 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: YHLBLULIFEONE50 Page Number : 19 of 43
Report Issued Date : May 20, 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 v03r02.
- 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



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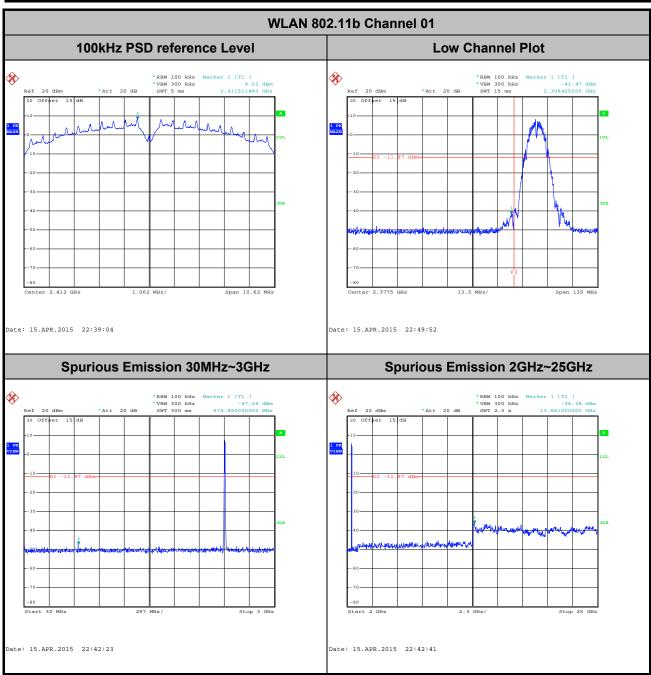
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 20 of 43
Report Issued Date : May 20, 2015

Report No.: FR540401C

Report Version : Rev. 01

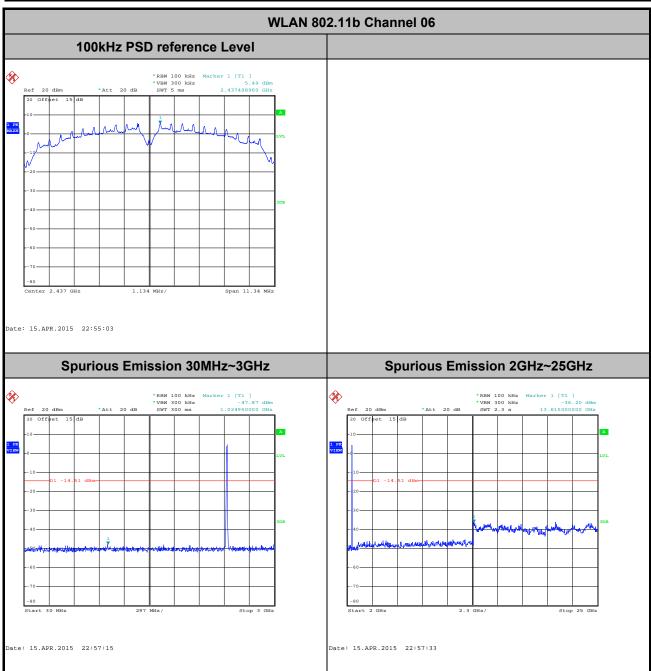
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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



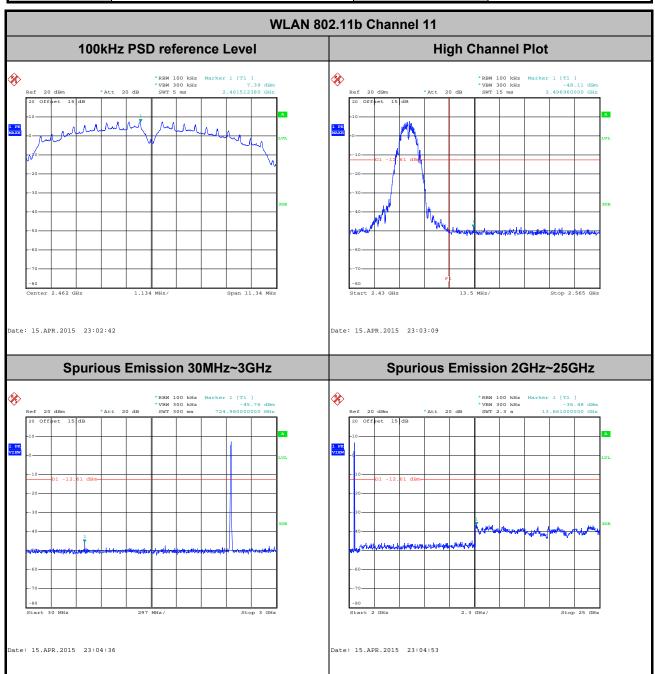
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 21 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



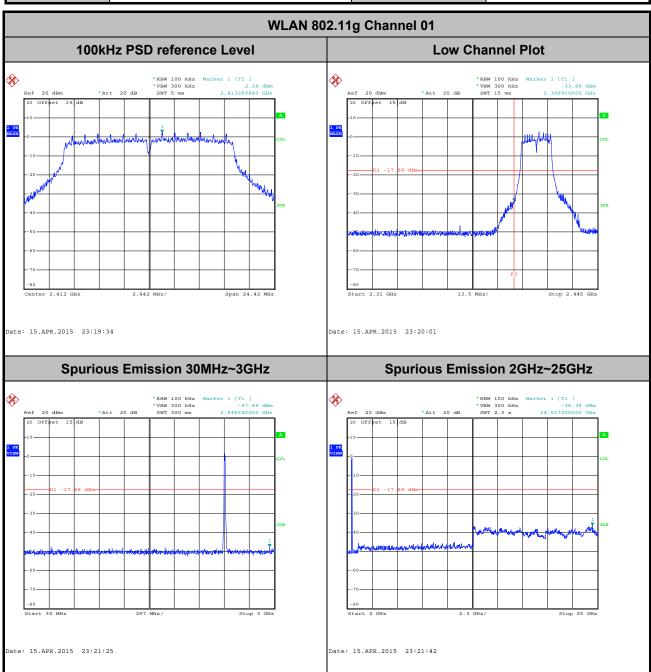
Page Number : 22 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



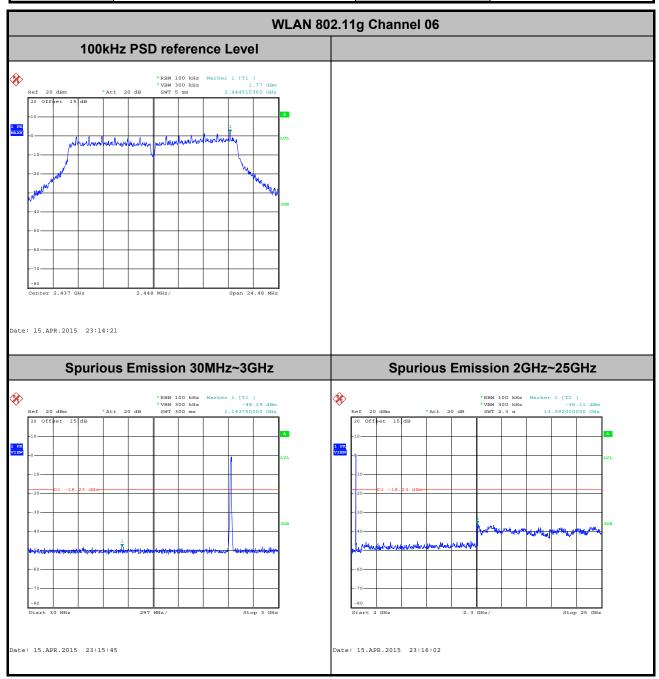
Page Number : 23 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



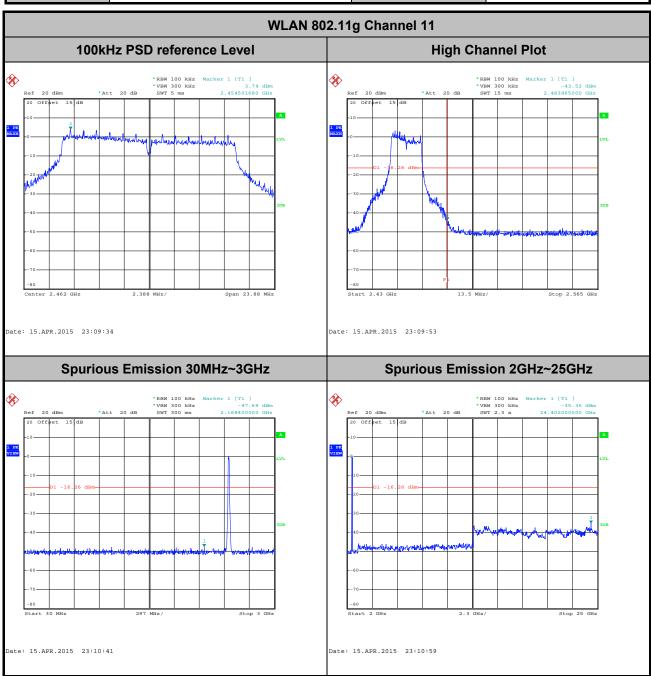
Page Number : 24 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



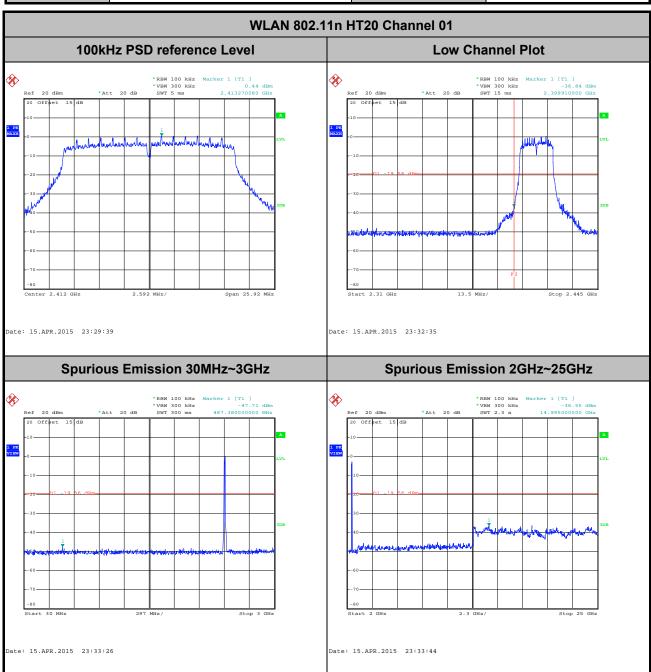
Page Number : 25 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



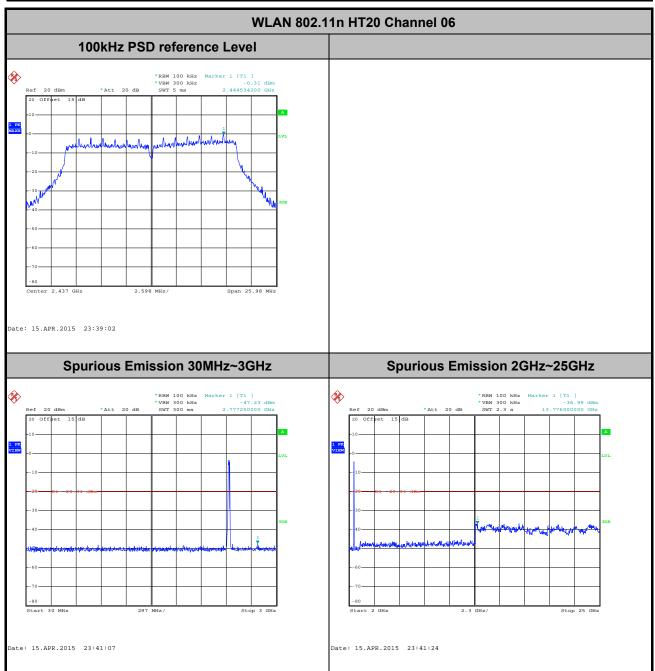
Page Number : 26 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



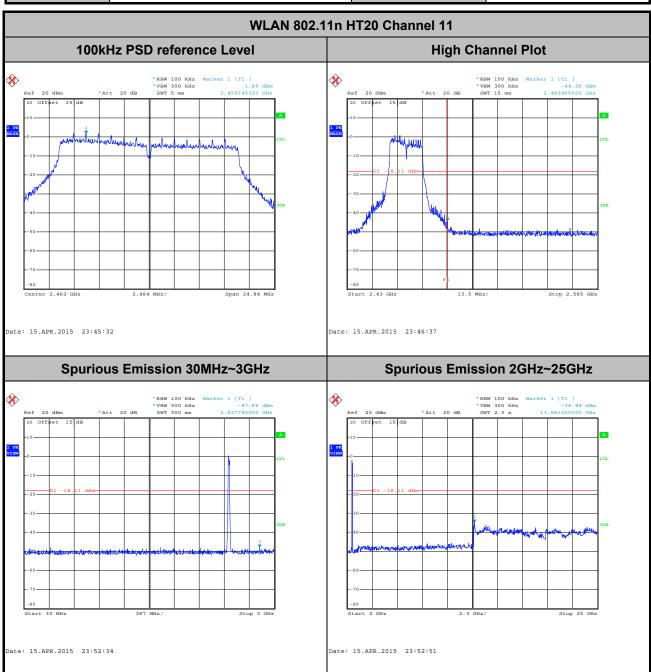
Page Number : 27 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



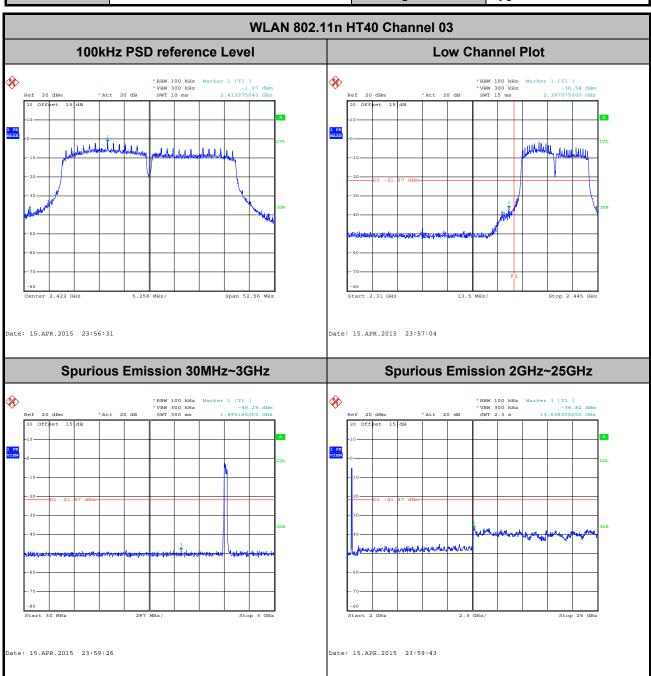
Page Number : 28 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



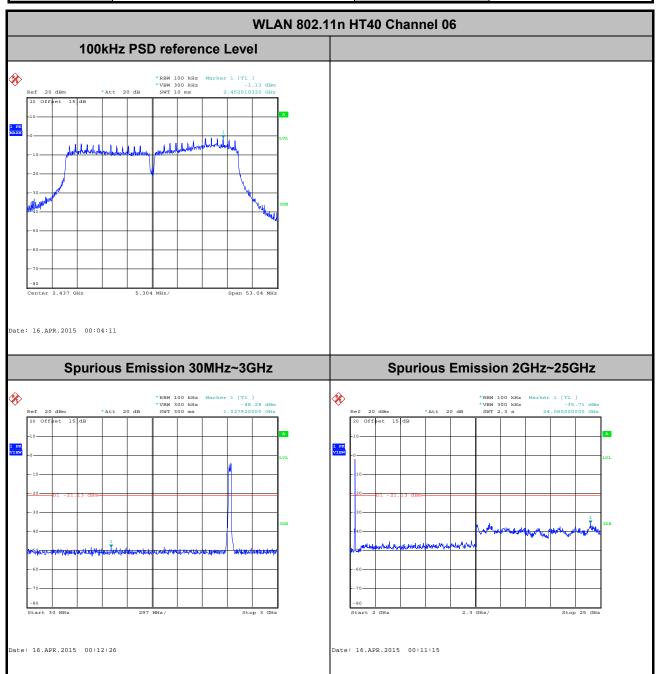
Page Number : 29 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

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



Page Number : 30 of 43
Report Issued Date : May 20, 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 Chen

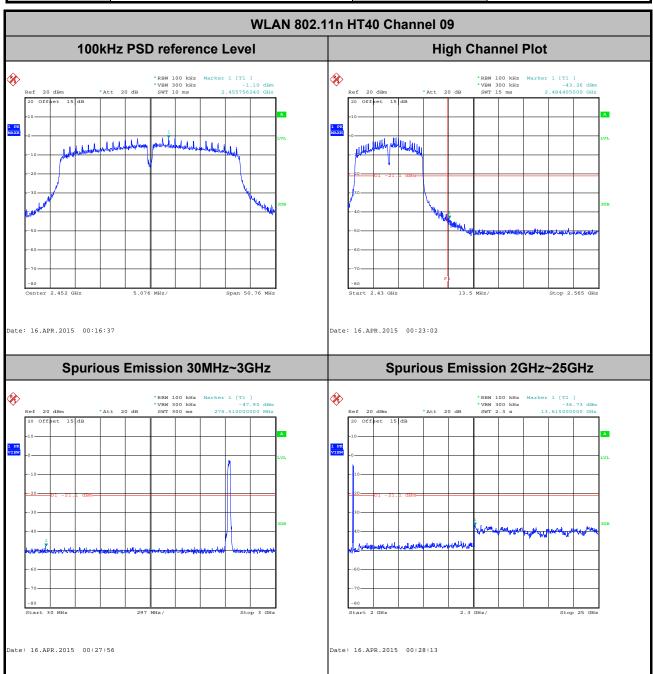


Page Number : 31 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

 Test Mode :
 802.11n HT40
 Temperature :
 21~25℃

 Test Band :
 2.4GHz High
 Relative Humidity :
 51~54%

 Test Channel :
 09
 Test Engineer :
 Mygai Chen



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 32 of 43
Report Issued Date : May 20, 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: YHLBLULIFEONE50 Page Number : 33 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 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	97.63	8.25	0.12	300Hz
802.11g	87.80	1.37	0.73	1kHz
2.4GHz 802.11n HT20	85.97	1.27	0.79	1kHz
2.4GHz 802.11n HT40	76.36	0.64	1.56	3kHz

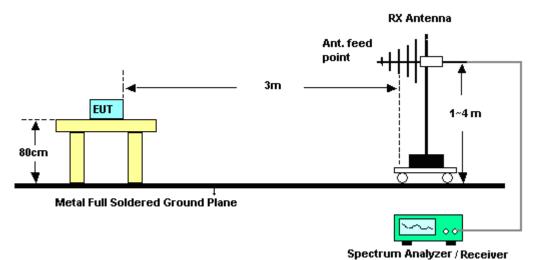
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 34 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

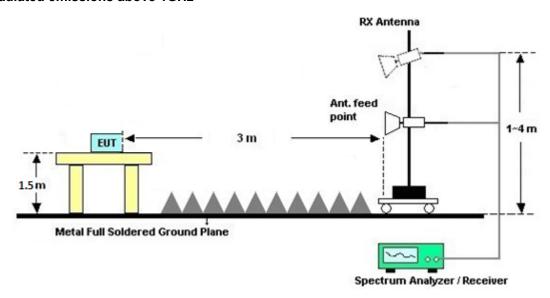


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 35 of 43
Report Issued Date : May 20, 2015
Report Version : Page 24

Report No.: FR540401C

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.

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

Please refer to Appendix B.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 36 of 43
Report Issued Date : May 20, 2015
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: YHLBLULIFEONE50 Page Number : 37 of 43
Report Issued Date : May 20, 2015

Report No.: FR540401C

Report Version : Rev. 01

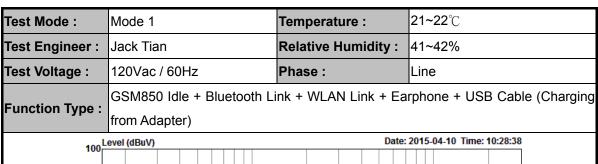


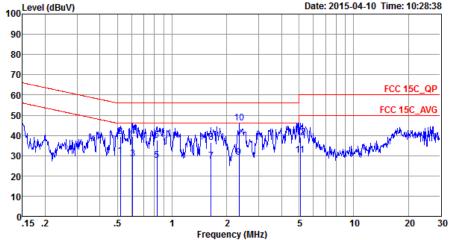
3.6.4 Test Setup



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 38 of 43 Report Issued Date : May 20, 2015 Report Version : Rev. 01

3.6.5 Test Result of AC Conducted Emission





Site : CO01-SZ

Condition: FCC 15C_QP LISN_L_20140304 LINE

Mode : Mode 1

IMEI : 353919026681811/353924026681811

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∇	dB	dBu∀	dBu∀	dB	dB	
1	0.52	29.84	-16.16	46.00	19.39	0.29	10.16	Average
2	0.52	39.64	-16.36	56.00	29.19	0.29	10.16	QP
3	0.61	28.28	-17.72	46.00	17.90	0.23	10.15	Average
4	0.61	39.58	-16.42	56.00	29.20	0.23	10.15	QP
5	0.83	27.57	-18.43	46.00	17.20	0.22	10.15	Average
6	0.83	37.77	-18.23	56.00	27.40	0.22	10.15	QP
7	1.64	27.31	-18.69	46.00	16.90	0.23	10.18	Average
8	1.64	36.61	-19.39	56.00	26.20	0.23	10.18	QP
9	2.33	29.15	-16.85	46.00	18.70	0.25	10.20	Average
10 *	2.33	45.95	-10.05	56.00	35.50	0.25	10.20	QP
11	5.08	30.16	-19.84	50.00	19.50	0.42	10.24	Average
12	5.08	39.06	-20.94	60.00	28.40	0.42	10.24	QP

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 39 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01



21~22℃ Test Mode: Mode 1 Temperature: Test Engineer: Jack Tian Relative Humidity: 41~42% 120Vac / 60Hz Phase: Test Voltage: Neutral GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging Function Type: from Adapter) 100 Level (dBuV) Date: 2015-04-10 Time: 10:33:01 90 ደበ 70 FCC 15C_QP 60 FCC 15C_AVG 50 40 White property was for your property and an analysis and and 30 20 10 .15 .2 10 20 30 Frequency (MHz) : CO01-SZ Site Condition: FCC 15C_QP LISN_N_20140304 NEUTRAL IMEI : 353919026681811/353924026681811 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark dB dBuV dBuV dBuV MHz dB dB 0.51 30.06 -15.94 46.00 19.50 0.51 37.16 -18.84 56.00 26.60 1 0.40 10.16 Average 2 0.40 10.16 QP 3 * 0.62 31.86 -14.14 46.00 21.40 0.31 10.15 Average 0.62 38.76 -17.24 56.00 28.30 0.90 23.76 -22.24 46.00 13.30 0.90 31.86 -24.14 56.00 21.40 0.31 10.15 QP 0.31 10.15 Average 0.31 10.15 QP 4 6 7 1.32 20.91 -25.09 46.00 10.39 0.35 10.17 Average 1.32 30.61 -25.39 56.00 20.09 1.84 22.95 -23.05 46.00 12.40 0.35 10.17 QP 0.37 10.18 Average 8 9 10 1.84 30.95 -25.05 56.00 20.40 0.37 10.18 QP 4.31 23.30 -22.70 46.00 12.60 4.31 32.20 -23.80 56.00 21.50 0.47 10.23 Average 0.47 10.23 QP 11 12

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 40 of 43
Report Issued Date : May 20, 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.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50

: 41 of 43 Page Number Report Issued Date: May 20, 2015

Report No.: FR540401C

: Rev. 01 Report Version

4 List of Measuring Equipment

					Calibration			
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Date	Test Date	Due Date	Remark
Spectrum	R&S	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Apr. 15, 2015~	Jan. 27, 2016	Conducted
Analyzer						Apr. 16, 2015		(TH01-SZ)
Power meter	Anritsu	ML2495A	1218010	10Hz~40GHz	Jan. 28, 2015	Apr. 15, 2015~ Apr. 16, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
						Apr. 15, 2015~		Conducted
Power Sensor	Anritsu	MA2411B	1207253	0.3GHz~40GHz	Jan. 28, 2015	Apr. 16, 2015	Jan. 27, 2016	(TH01-SZ)
EMI Test	Agilent	N9038A	MY522601	20Hz~26.5GHz	May 26, 2014	Apr. 25, 2015	May 25, 2015	Radiation
Receiver&SA	Technologies	NOOOA	85		Way 20, 2014	Apr. 23, 2013	Way 25, 2015	(03CH01-SZ)
Spectrum	R&S	FSV40	101041	10kHz~40GHz;	Sep. 25, 2014	Apr. 25, 2015	Sep. 24, 2015	Radiation
Analyzer				Max 30dBm				(03CH01-SZ) Radiation
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 09, 2014	Apr. 25, 2015	May 08, 2015	(03CH01-KS)
Pilog Antonna	TonoO	CBL6112D	23188	30MHz-2GHz	Nov. 07, 2014	Apr. 25, 2015	Nov. 06, 2015	Radiation
Bilog Antenna	TeseQ	CBLOTIZD	23100	30MHZ-2GHZ	NOV. 07, 2014	Apr. 25, 2015	NOV. 00, 2015	(03CH01-SZ)
Double Ridge	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Apr. 25, 2015	Oct. 14, 2015	Radiation
Horn Antenna	_					•		(03CH01-SZ) Radiation
SHF-EHF Horn	com-power	AH-840	101073	18Ghz-40GHz	Jun. 09, 2014	Apr. 25, 2015	Jun. 08, 2015	(03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz ~3000MHz	Jan. 28, 2015	Apr. 25, 2015	Jan. 27, 2016	Radiation
I		TTA1840-35-		/ 30 dB		, , , , ,	,	(03CH01-SZ) Radiation
HF Amplifier	MITEQ	HG	1871923	18GHz~40GHz	Jul. 08, 2014	Apr. 25, 2015	Jul. 07, 2015	(03CH01-SZ
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Apr. 25, 2015	May 07, 2015	Radiation
Amplifier	Tiai	AVOCCOD		20112 20.00112	Way 00, 2014	Арт. 20, 2010	Way 07, 2010	(03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Apr. 25, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 25, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 25, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz	Jan. 28, 2015	Apr. 10, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Feb. 02, 2015	Apr. 10, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN								
(for auxiliary	EMCO	3816/2SH	00103892	9kHz~30MHz	Feb. 02, 2015	Apr. 10, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
equipment)								, ,
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Sep. 29, 2014	Apr. 10, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Apr. 10, 2015	Oct. 23, 2015	Conduction (CO01-SZ)

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : 42 of 43
Report Issued Date : May 20, 2015
Report Version : Rev. 01

Uncertainty of Evaluation 5

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: YHLBLULIFEONE50 Page Number : 43 of 43 Report Issued Date: May 20, 2015

Report No.: FR540401C

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: YHLBLULIFEONE50 Page Number : A1 of A1
Report Issued Date : May 20, 2015
Report Version : Rev. 01

Test Engineer:	Mygai Chen	Temperature:	21~25	°C
Test Date:	2015/4/15~2015/4/16	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

	2.4GHz Band														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	Occupied 6dB BW BW (MHz)		Pass/Fail							
11b	1Mbps	1	1	2412	12.00	7.08	0.50	Pass							
11b	1Mbps	1	6	2437	12.35	7.56	0.50	Pass							
11b	1Mbps	1	11	2462	12.30	7.56	0.50	Pass							
11g	6Mbps	1	1	2412	17.80	16.28	0.50	Pass							
11g	6Mbps	1	6	2437	18.55	16.32	0.50	Pass							
11g	6Mbps	1	11	2462	18.60	15.92	0.50	Pass							
HT20	MCS0	1	1	2412	18.55	17.28	0.50	Pass							
HT20	MCS0	1	6	2437	19.35	17.32	0.50	Pass							
HT20	MCS0	1	11	2462	19.10	16.56	0.50	Pass							
HT40	MCS0	1	3	2422	36.40	35.04	0.50	Pass							
HT40	MCS0	1	6	2437	36.90	35.36	0.50	Pass							
HT40	MCS0	1	9	2452	36.00	33.84	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	16.77	30.00	2.00	18.77	36.00	Pass					
11b	1Mbps	1	6	2437	14.16	30.00	2.00	16.16	36.00	Pass					
11b	1Mbps	1	11	2462	16.19	30.00	2.00	18.19	36.00	Pass					
11g	6Mbps	1	1	2412	21.72	30.00	2.00	23.72	36.00	Pass					
11g	6Mbps	1	6	2437	20.56	30.00	2.00	22.56	36.00	Pass					
11g	6Mbps	1	11	2462	22.05	30.00	2.00	24.05	36.00	Pass					
HT20	MCS0	1	1	2412	20.60	30.00	2.00	22.60	36.00	Pass					
HT20	MCS0	1	6	2437	19.95	30.00	2.00	21.95	36.00	Pass					
HT20	MCS0	1	11	2462	21.12	30.00	2.00	23.12	36.00	Pass					
HT40	MCS0	1	3	2422	20.48	30.00	2.00	22.48	36.00	Pass					
HT40	MCS0	1	6	2437	20.65	30.00	2.00	22.65	36.00	Pass					
HT40	MCS0	1	9	2452	21.09	30.00	2.00	23.09	36.00	Pass					

TEST RESULTS DATA Average Power Table (Reporting Only)

	2.4GHz Band													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)								
11b	1Mbps	1	1	2412	0.10	13.44								
11b	1Mbps	1	6	2437	0.10	11.22								
11b	1Mbps	1	11	2462	0.10	13.25								
11g	6Mbps	1	1	2412	0.56	13.27								
11g	6Mbps	1	6	2437	0.56	11.84								
11g	6Mbps	1	11	2462	0.56	13.41								
HT20	MCS0	1	1	2412	0.66	11.43								
HT20	MCS0	1	6	2437	0.66	10.04								
HT20	MCS0	1	11	2462	0.66	11.95								
HT40	MCS0	1	3	2422	1.17	10.66								
HT40	MCS0	1	6	2437	1.17	11.08								
HT40	MCS0	1	9	2452	1.17	11.73								

TEST RESULTS DATA Peak Power Density

					2.4GHz Band	t		
Mod.	Data Rate	ate NTX CH.		Freq. (MHz)	. I (GRM I		Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-6.14	2.00	8.00	Pass
11b	1Mbps	1	6	2437	-8.19	2.00	8.00	Pass
11b	1Mbps	1	11	2462	-6.61	2.00	8.00	Pass
11g	6Mbps	1	1	2412	-12.35	2.00	8.00	Pass
11g	6Mbps	1	6	2437	-12.86	2.00	8.00	Pass
11g	6Mbps	1	11	2462	-11.03	2.00	8.00	Pass
HT20	MCS0	1	1	2412	-13.90	2.00	8.00	Pass
HT20	MCS0	1	6	2437	-14.30	2.00	8.00	Pass
HT20	MCS0	1	11	2462	-13.16	2.00	8.00	Pass
HT40	MCS0	1	3	2422	-16.06	2.00	8.00	Pass
HT40	MCS0	1	6	2437	-15.25	2.00	8.00	Pass
HT40	MCS0	1	9	2452	-15.48	2.00	8.00	Pass

Appendix B. Radiated Test Results

15C 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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2332.05	49.76	-24.24	74	38.07	32.53	8.43	29.27	171	145	Р	Н
		2358.51	39.15	-14.85	54	27.39	32.56	8.51	29.31	171	145	Α	Н
000 441-	*	2412	94.1	-	-	82.27	32.61	8.6	29.38	171	145	Р	Н
802.11b CH 01	*	2412	92.09	-	-	80.26	32.61	8.6	29.38	171	145	Α	Н
2412MHz		2378.4	49.97	-24.03	74	38.22	32.58	8.51	29.34	250	96	Р	V
2412WITZ		2376.24	39	-15	54	27.25	32.58	8.51	29.34	250	96	Α	V
	*	2412	94.63	-	-	82.8	32.61	8.6	29.38	250	96	Р	V
	*	2412	92.75	-	-	80.92	32.61	8.6	29.38	250	96	Α	V
		2358.96	49.62	-24.38	74	37.86	32.56	8.51	29.31	116	344	Р	Н
		2365.26	38.38	-15.62	54	26.65	32.56	8.51	29.34	116	344	Α	Н
	*	2437	92.07	ı	1	80.08	32.65	8.69	29.35	116	344	Р	Н
	*	2437	90.04	-	-	78.05	32.65	8.69	29.35	116	344	Α	Н
000 441		2492.2	50.28	-23.72	74	38.08	32.7	8.78	29.28	116	344	Р	Н
802.11b CH 06		2484.64	38.88	-15.12	54	26.73	32.68	8.78	29.31	116	344	Α	Н
2437MHz		2326.29	49.39	-24.61	74	37.7	32.53	8.43	29.27	121	66	Р	V
243710112		2361.3	38.46	-15.54	54	26.7	32.56	8.51	29.31	121	66	Α	V
	*	2437	93.73	-	-	81.74	32.65	8.69	29.35	121	66	Р	V
	*	2437	91.68	-	-	79.69	32.65	8.69	29.35	121	66	Α	V
		2491.56	50.84	-23.16	74	38.67	32.7	8.78	29.31	121	66	Р	V
		2488.36	38.83	-15.17	54	26.66	32.7	8.78	29.31	121	66	Α	V

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B1 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01



FCC RF Test Report

	*	2462	93.92	-	-	81.89	32.67	8.69	29.33	188	360	Р	Н
	*	2462	91.84	-	1	79.81	32.67	8.69	29.33	188	360	Α	Н
		2497.84	50.1	-23.9	74	37.9	32.7	8.78	29.28	188	360	Р	Н
802.11b		2488.2	38.94	-15.06	54	26.77	32.7	8.78	29.31	188	360	Α	Н
CH 11 2462MHz	*	2462	97.04	-	1	85.01	32.67	8.69	29.33	222	35	Р	V
2402141112	*	2462	95.08	-	1	83.05	32.67	8.69	29.33	222	35	Α	V
		2492.08	50.36	-23.64	74	38.16	32.7	8.78	29.28	222	35	Р	V
		2487.92	38.81	-15.19	54	26.64	32.7	8.78	29.31	222	35	Α	V

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50

: B2 of B15 Page Number Report Issued Date: May 20, 2015 Report Version : Rev. 01

^{1.} No other spurious found.

Remark 2. All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol
	Note	ricquency	LOVOI						•				
Ant.		(BALL-)	(dD::\//re \	Limit	Line	Level	Factor	Loss	Factor	Pos		Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		4824	49.35	-24.65	74	30.4	34.4	12.86	28.31	110	360	Р	Н
CH 01													
2412MHz		4824	50.59	-23.41	74	31.64	34.4	12.86	28.31	110	360	Р	V
222 441		4874	50.2	-23.8	74	31.07	34.43	12.92	28.22	100	360	Р	Н
802.11b CH 06		7311	49.26	-24.74	74	25.23	36.22	14.71	26.9	174	100	Р	Н
2437MHz		4874	48.66	-25.34	74	29.53	34.43	12.92	28.22	100	360	Р	V
2407111112		7311	49.35	-24.65	74	25.32	36.22	14.71	26.9	174	100	Р	V
000 445		4924	50.38	-23.62	74	31.02	34.46	13.04	28.14	146	347	Р	Н
802.11b CH 11		7386	49.21	-24.79	74	25.11	36.26	14.75	26.91	145	274	Р	Н
2462MHz		4924	49.93	-24.07	74	30.57	34.46	13.04	28.14	146	347	Р	V
2402111112		7386	49.95	-24.05	74	25.85	36.26	14.75	26.91	145	274	Р	V

Remark

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B3 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01

I. No other spurious found.

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

15C 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.			2010.	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)		(H/V)
		2389.65	59.08	-14.92	74	47.14	32.6	8.6	29.26	237	59	Р	Н
		2389.92	43.68	-10.32	54	31.74	32.6	8.6	29.26	237	59	Α	Н
000 44	*	2412	103.56	-	-	91.59	32.61	8.6	29.24	237	59	Р	Н
802.11g CH 01	*	2412	94.52	1	-	82.55	32.61	8.6	29.24	237	59	Α	Н
2412MHz		2389.74	54.69	-19.31	74	42.75	32.6	8.6	29.26	241	83	Р	V
241211112		2389.92	42.48	-11.52	54	30.54	32.6	8.6	29.26	241	83	Α	V
	*	2412	100.9	ı	1	88.93	32.61	8.6	29.24	241	83	Р	V
	*	2412	92.32	-	-	80.35	32.61	8.6	29.24	241	83	Α	V
		2377.05	50.47	-23.53	74	38.6	32.58	8.51	29.22	230	32	Р	Н
		2354.82	39.89	-14.11	54	28	32.56	8.51	29.18	230	32	Α	Н
	*	2437	100.85	1	1	88.71	32.65	8.69	29.2	230	32	Р	Н
	*	2437	92.33	1	-	80.19	32.65	8.69	29.2	230	32	Α	Н
		2489.4	51.22	-22.78	74	38.88	32.7	8.78	29.14	230	32	Р	Н
802.11g		2489.44	41.43	-12.57	54	29.09	32.7	8.78	29.14	230	32	Α	Н
CH 06 2437MHz		2362.2	50.92	-23.08	74	39.03	32.56	8.51	29.18	217	84	Р	V
2437 WII 12		2358.78	39.82	-14.18	54	27.93	32.56	8.51	29.18	217	84	Α	V
	*	2437	101.83	-	-	89.69	32.65	8.69	29.2	217	84	Р	V
	*	2437	93.5	-	-	81.36	32.65	8.69	29.2	217	84	Α	V
		2493.72	52.04	-21.96	74	39.7	32.7	8.78	29.14	217	84	Р	٧
	_	2489.24	41.97	-12.03	54	29.63	32.7	8.78	29.14	217	84	Α	V

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B4 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01



FCC RF Test Report

	*	2462	105.15	-	-	92.97	32.67	8.69	29.18	250	60	Р	Н
	*	2462	96.94	-	-	84.76	32.67	8.69	29.18	250	60	Α	Н
		2483.64	65.9	-8.1	74	53.6	32.68	8.78	29.16	250	60	Р	Н
802.11g		2483.6	49	-5	54	36.7	32.68	8.78	29.16	250	60	Α	Н
CH 11 2462MHz	*	2457.531	102.53	-	1	90.35	32.67	8.69	29.18	184	88	Р	V
2402IVII IZ	*	2458.7	94.6	-	1	82.42	32.67	8.69	29.18	184	88	Α	V
		2483.52	62.25	-11.75	74	49.95	32.68	8.78	29.16	184	88	Р	٧
		2483.6	45.67	-8.33	54	33.37	32.68	8.78	29.16	184	88	Α	V
	1 N	n other spurio	us found					•	•				

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50

: B5 of B15 Page Number Report Issued Date: May 20, 2015 Report Version : Rev. 01

Remark

1. No other spurious round.
2. All results are PASS against Peak and Average limit line.

15C 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.	11010	. roquonoy	2010.	Limit	Line	Level	Factor	Loss	Factor	Pos		Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)			(H/V)
802.11g		4824	48.16	-25.84	74	29.21	34.4	12.86	28.31	110	360	Р	Н
CH 01 2412MHz		4824	46.75	-27.25	74	27.8	34.4	12.86	28.31	110	360	Р	٧
		4874	46.08	-27.92	74	26.95	34.43	12.92	28.22	100	360	Р	Н
802.11g		7311	49.14	-24.86	74	25.11	36.22	14.71	26.9	174	100	Р	Н
CH 06 2437MHz		4874	47.42	-26.58	74	28.29	34.43	12.92	28.22	100	360	Р	٧
2437 WITIZ		7311	49.37	-24.63	74	25.34	36.22	14.71	26.9	174	100	Р	٧
		4924	47.06	-26.94	74	27.7	34.46	13.04	28.14	146	347	Р	Н
802.11g		7386	48.66	-25.34	74	24.56	36.26	14.75	26.91	145	274	Р	Н
CH 11 2462MHz		4924	47.38	-26.62	74	28.02	34.46	13.04	28.14	146	347	Р	٧
2402WIF1Z		7386	50.97	-23.03	74	26.87	36.26	14.75	26.91	145	274	Р	٧

Remark

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B6 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01

^{1.} No other spurious found.

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

15C 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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.92	51.79	-22.21	74	39.85	32.6	8.6	29.26	214	33	Р	Н
		2389.83	40.84	-13.16	54	28.9	32.6	8.6	29.26	214	33	Α	Н
802.11n	*	2412	98.46	ı	-	86.49	32.61	8.6	29.24	214	33	Р	Н
HT20	*	2412	90.15	-	-	78.18	32.61	8.6	29.24	214	33	Α	Н
CH 01		2389.92	52.23	-21.77	74	40.29	32.6	8.6	29.26	182	83	Р	٧
2412MHz		2389.92	41.62	-12.38	54	29.68	32.6	8.6	29.26	182	83	Α	٧
	*	2412	100.74	-	-	88.77	32.61	8.6	29.24	182	83	Р	٧
	*	2412	92	-	-	80.03	32.61	8.6	29.24	182	83	Α	٧
		2330.52	51.05	-22.95	74	39.2	32.53	8.43	29.11	230	34	Р	Н
		2356.98	39.89	-14.11	54	28	32.56	8.51	29.18	230	34	Α	Н
	*	2437	97.83	-	-	85.69	32.65	8.69	29.2	230	34	Р	Н
	*	2437	89.72	-	-	77.58	32.65	8.69	29.2	230	34	Α	Н
802.11n		2494.56	51.35	-22.65	74	39.01	32.7	8.78	29.14	230	34	Р	Н
HT20		2488.84	41.08	-12.92	54	28.74	32.7	8.78	29.14	230	34	Α	Н
CH 06		2339.7	50.94	-23.06	74	39.12	32.54	8.43	29.15	216	85	Р	٧
2437MHz		2370.84	39.77	-14.23	54	27.9	32.58	8.51	29.22	216	85	Α	٧
	*	2437	99.65	-	-	87.51	32.65	8.69	29.2	216	85	Р	٧
	*	2437	91.9	-	-	79.76	32.65	8.69	29.2	216	85	Α	٧
		2488.72	51.97	-22.03	74	39.63	32.7	8.78	29.14	216	85	Р	٧
		2488.52	41.93	-12.07	54	29.59	32.7	8.78	29.14	216	85	Α	V

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B7 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01



FCC RF Test Report

	*	2462	103.39	-	-	91.21	32.67	8.69	29.18	226	58	Р	Н
	*	2462	95.03	-	-	82.85	32.67	8.69	29.18	226	58	Α	Н
802.11n		2483.56	62.94	-11.06	74	50.64	32.68	8.78	29.16	226	58	Р	Н
HT20		2483.6	44.83	-9.17	54	32.53	32.68	8.78	29.16	226	58	Α	Н
CH 11	*	2462	101.14	-	1	88.96	32.67	8.69	29.18	201	86	Р	V
2462MHz	*	2462	92.86	-	1	80.68	32.67	8.69	29.18	201	86	Α	V
		2483.52	56.78	-17.22	74	44.48	32.68	8.78	29.16	201	86	Р	V
		2483.52	43.17	-10.83	54	30.87	32.68	8.78	29.16	201	86	Α	V

Remark

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B8 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01

[.] No other spurious found.

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

15C 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.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4824	46.21	-27.79	74	27.26	34.4	12.86	28.31	110	360	Р	Н
HT20						0	•					-	
CH 01													
2412MHz		4824	48.45	-25.55	74	29.5	34.4	12.86	28.31	110	360	Р	V
802.11n		4874	47.41	-26.59	74	28.28	34.43	12.92	28.22	100	360	Р	Н
HT20		7311	49.38	-24.62	74	25.35	36.22	14.71	26.9	174	100	Р	Н
CH 06		4874	46.32	-27.68	74	27.19	34.43	12.92	28.22	100	360	Р	V
2437MHz		7311	49.46	-24.54	74	25.43	36.22	14.71	26.9	174	100	Р	V
802.11n		4924	47.13	-26.87	74	27.77	34.46	13.04	28.14	146	347	Р	Н
HT20		7386	50.94	-23.06	74	26.84	36.26	14.75	26.91	145	274	Р	Н
CH 11		4924	47.48	-26.52	74	28.12	34.46	13.04	28.14	146	347	Р	V
2462MHz		7386	50.22	-23.78	74	26.12	36.26	14.75	26.91	145	274	Р	٧
		I.	1		ı	ı	ı						1

Remark

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B9 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01

^{1.} No other spurious found.

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

15C 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.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.11	52.64	-21.36	74	40.7	32.6	8.6	29.26	231	33	Р	Н
		2389.92	43.15	-10.85	54	31.21	32.6	8.6	29.26	231	33	Α	Н
	*	2422	96.4	-	-	84.39	32.63	8.6	29.22	231	33	Р	Н
	*	2422	86.86	-	-	74.85	32.63	8.6	29.22	231	33	Α	Н
802.11n		2490	51.51	-22.49	74	39.17	32.7	8.78	29.14	231	33	Р	Н
HT40		2492.6	41.15	-12.85	54	28.81	32.7	8.78	29.14	231	33	Α	Н
CH 03		2389.83	54.98	-19.02	74	43.04	32.6	8.6	29.26	174	84	Р	V
2422MHz		2389.74	44.38	-9.62	54	32.44	32.6	8.6	29.26	174	84	Α	V
	*	2422	97.61	1	-	85.6	32.63	8.6	29.22	174	84	Р	V
	*	2422	89.74	1	-	77.73	32.63	8.6	29.22	174	84	Α	V
		2486.68	50.99	-23.01	74	38.69	32.68	8.78	29.16	174	84	Р	٧
		2488.56	41.32	-12.68	54	28.98	32.7	8.78	29.14	174	84	Α	٧
		2347.08	51.22	-22.78	74	39.32	32.54	8.51	29.15	232	33	Р	Н
		2389.83	40.72	-13.28	54	28.78	32.6	8.6	29.26	232	33	Α	Н
	*	2437	94.65	1	-	82.51	32.65	8.69	29.2	232	33	Р	Н
	*	2437	86.6	1	-	74.46	32.65	8.69	29.2	232	33	Α	Н
802.11n		2484.48	52.61	-21.39	74	40.31	32.68	8.78	29.16	232	33	Р	Н
HT40		2483.52	41.51	-12.49	54	29.21	32.68	8.78	29.16	232	33	Α	Н
CH 06		2375.79	50.52	-23.48	74	38.65	32.58	8.51	29.22	181	59	Р	٧
2437MHz		2389.92	41.38	-12.62	54	29.44	32.6	8.6	29.26	181	59	Α	V
	*	2437	97.93	1	-	85.79	32.65	8.69	29.2	181	59	Р	V
	*	2437	90.14	-	-	78	32.65	8.69	29.2	181	59	Α	V
		2484.56	52.11	-21.89	74	39.81	32.68	8.78	29.16	181	59	Р	V
		2484.08	42.07	-11.93	54	29.77	32.68	8.78	29.16	181	59	Α	V

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B10 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01



FCC RF Test Report

		2354.46	50.91	-23.09	74	39.02	32.56	8.51	29.18	250	61	Р	Н
		2353.83	40.59	-13.41	54	28.7	32.56	8.51	29.18	250	61	Α	Н
	*	2452	99.99	-	-	87.85	32.65	8.69	29.2	250	61	Р	Н
	*	2452	91.78	-	-	79.64	32.65	8.69	29.2	250	61	Α	Н
802.11n		2483.72	65.16	-8.84	74	52.86	32.68	8.78	29.16	250	61	Р	Н
HT40		2484.68	48.03	-5.97	54	35.73	32.68	8.78	29.16	250	61	Α	Н
CH 09		2349.51	50.96	-23.04	74	39.06	32.54	8.51	29.15	180	62	Р	V
2452MHz		2355.54	40.45	-13.55	54	28.56	32.56	8.51	29.18	180	62	Α	V
	*	2452	97.88	-	-	85.74	32.65	8.69	29.2	180	62	Р	V
	*	2452	89.96	-	-	77.82	32.65	8.69	29.2	180	62	Α	V
		2483.96	59.89	-14.11	74	47.59	32.68	8.78	29.16	180	62	Р	V
		2483.56	44.54	-9.46	54	32.24	32.68	8.78	29.16	180	62	Α	V

Remark 2.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B11 of B15
Report Issued Date : May 20, 2015
Report Version : Rev. 01

^{1.} No other spurious found.

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

15C 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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4844	44.74	-29.26	74	25.69	34.41	12.92	28.28	100	360	Р	Н
HT40		7266	47.56	-26.44	74	23.55	36.21	14.7	26.9	200	360	Р	Н
CH 03		4844	46.17	-27.83	74	27.12	34.41	12.92	28.28	100	360	Р	٧
2422MHz		7266	49.82	-24.18	74	25.81	36.21	14.7	26.9	200	360	Р	V
802.11n		4874	46.72	-27.28	74	27.59	34.43	12.92	28.22	100	163	Р	Н
HT40		7311	48.84	-25.16	74	24.81	36.22	14.71	26.9	120	360	Р	Н
CH 06		4874	46.33	-27.67	74	27.2	34.43	12.92	28.22	100	163	Р	٧
2437MHz		7311	48.86	-25.14	74	24.83	36.22	14.71	26.9	120	360	Р	V
802.11n		4904	46.86	-27.14	74	27.6	34.45	12.98	28.17	129	360	Р	Н
HT40		7356	50.05	-23.95	74	25.99	36.24	14.73	26.91	121	320	Р	Н
CH 09		4904	47.81	-26.19	74	28.55	34.45	12.98	28.17	129	360	Р	V
2452MHz		7356	49.93	-24.07	74	25.87	36.24	14.73	26.91	121	320	Р	V
Remark		o other spurio		st Peak	and Averag	e limit lin	e.					,	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B12 of B15 Report Issued Date: May 20, 2015

Report No.: FR540401C

Report Version : Rev. 01

15C Emission below 1GHz 2.4GHz WIFI 802.11g (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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		95.96	40.02	-3.48	43.5	53.09	11.22	1.51	25.8	-	-	Р	Н
		120.21	40.14	-3.36	43.5	49.52	14.6	1.69	25.67	100	260	Р	Н
		307.42	26.17	-19.83	46	34.3	14.2	2.77	25.1	-	-	Р	Н
		460.68	27.24	-18.76	46	32.11	17.82	3.44	26.13	-	-	Р	Н
		691.54	28.41	-17.59	46	30.26	20.25	4.28	26.38	-	-	Р	Н
2.4GHz 802.11g LF		825.4	33.02	-12.98	46	32.09	22.27	4.75	26.09	-	-	Р	Н
		30	35.35	-4.65	40	40.97	19.6	0.85	26.07	120	251	Р	V
		118.27	37.91	-5.59	43.5	47.6	14.32	1.67	25.68	-	-	Р	V
		331.67	20.84	-25.16	46	28.74	14.52	2.87	25.29	-	-	Р	V
		522.76	26.13	-19.87	46	29.31	19.47	3.71	26.36	-	-	Р	٧
		683.78	27.64	-18.36	46	29.53	20.2	4.29	26.38	-	-	Р	٧
		981.57	30.32	-23.68	54	29.18	21.27	5.12	25.25	-	-	Р	٧
	1. No	o other spurio	us found.										_
Remark	2. Al	l results are F	ASS agains	st limit li	ne.								

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B13 of B15
Report Issued Date : May 20, 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).
!	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: YHLBLULIFEONE50 Page Number : B14 of B15
Report Issued Date : May 20, 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($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -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".

 ${\it SPORTON\ INTERNATIONAL\ (SHENZHEN)\ INC.}$

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONE50 Page Number : B15 of B15
Report Issued Date : May 20, 2015

Report No.: FR540401C

Report Version : Rev. 01