FCC RF Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : PURE VIEW

FCC ID : YHLBLUPUREVIEW

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Oct. 13, 2017 and testing was completed on Nov. 16, 2017. 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.



TESTING NVLAP LAB CODE 600156-0

Approved by: Eric Shih / Manager

Sporton International (Shenzhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 1 of 39 Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01

TABLE OF CONTENTS

1	GEN	ERAL DESCRIPTION	5	
	1.1	Applicant	5	
	1.2	Manufacturer		
	1.3	Product Feature of Equipment Under Test	5	
	1.4	Product Specification of Equipment Under Test	6	
	1.5	Modification of EUT	6	
	1.6	Testing Location	7	
	1.7	Applicable Standards	7	
2	TES	T CONFIGURATION OF EQUIPMENT UNDER TEST	8	
	2.1	Carrier Frequency and Channel	8	
	2.2	Test Mode	8	
	2.3	Connection Diagram of Test System	9	
	2.4	Support Unit used in test configuration and system	10	
	2.5	EUT Operation Test Setup	10	
	2.6	Measurement Results Explanation Example	10	
3	TEST RESULT			
	3.1	6dB Bandwidth Measurement	11	
	3.2	Output Power Measurement	13	
	3.3	Power Spectral Density Measurement	14	
	3.4	Conducted Band Edges and Spurious Emission Measurement	16	
	3.5	Radiated Band Edges and Spurious Emission Measurement		
	3.6	AC Conducted Emission Measurement		
	3.7	Antenna Requirements	37	
4	LIST	OF MEASURING EQUIPMENT	38	
5	UNC	ERTAINTY OF EVALUATION	39	
ΑP	PEND	DIX A. CONDUCTED TEST RESULTS		
ΑP	PEND	DIX B. RADIATED SPURIOUS EMISSION		
ΑP	PEND	DIX C. DUTY CYCLE PLOTS		
ΑP	PEND	DIX D. SETUP PHOTOGRAPHS		

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 2 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No. : FR7O1304C

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR7O1304C	Rev. 01	Initial issue of report	Dec. 06, 2017

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 3 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	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	3.5 Radiated Band Edges and Radiated Spurious Emission		15.209(a) & 15.247(d)	Pass	Under limit 8.67 dB at 2484.67 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.08 dB at 2.05 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 4 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

1 General Description

1.1 Applicant

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.2 Manufacturer

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile phone			
Brand Name	BLU			
Model Name	PURE VIEW			
FCC ID	YHLBLUPUREVIEW			
	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+/LTE			
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40			
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE			
	Conducted: 351372098274531/351372098274549			
IMEI Code	Conduction: 351372098274473/351372098274481			
	Radiation: 351372098274473/351372098274481			
HW Version	M3708W-V1.0			
SW Version BLU_P0050WW_V7.0.01.00_GENERIC 23-10-20				
EUT Stage	Identical Prototype			

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

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 5 of 39
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz		
	802.11b : 18.99 dBm (0.0793 W)		
Maximum (Peak) Output Power to	802.11g: 21.77 dBm (0.1503 W)		
antenna	802.11n HT20 : 20.74 dBm (0.1186 W)		
	802.11n HT40 : 21.22 dBm (0.1324 W)		
Antenna Type / Gain	IFA Antenna with gain -0.80 dBi		
Type of Madulation	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: YHLBLUPUREVIEW Page Number : 6 of 39 Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No are CN5018 and CN5019.

Report No.: FR7O1304C

Test Site	Sporton International (Shenzhen) Inc.			
	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan			
Toot Site Leastion	Shenzhen City Guangdong Province 518055 China			
Test Site Location	TEL: +86-755-8637-9589			
	FAX: +86-755-8637-9595			
Test Site No.	Sporton	Site No.	FCC Test Firm Registration No.	
Test Site NO.	TH01-SZ	CO01-SZ	251365	

Test Site	Sporton International (Shenzhen) Inc.			
	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan			
Took Cita Lagation	Warehouse, Nanshan District Shenzhen City Guangdong Province 518055			
Test Site Location	China			
	TEL: +86-755-3320-2398			
Toot Site No	Sporton Site No. FCC Test Firm Registration			
Test Site No.	03CH01-SZ	577730		

Note: The test site complies with ANSI C63.4 2014 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 v04
- ANSI C63.10-2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

 Sporton International (Shenzhen) Inc.
 Page Number
 : 7 of 39

 TEL: +86-755-8637-9589
 Report Issued Date
 : Dec. 06, 2017

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID : YHLBLUPUREVIEW Report Template No.: BU5-FR15CWL Version 2.0

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.

Report No.: FR7O1304C

2.1 Carrier Frequency and 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	-	-

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

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

	Test Cases						
AC	Mode 1:	GSM1900 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging					
Conducted		from Adapter) + Earphone					
Emission							

 Sporton International (Shenzhen) Inc.
 Page Number
 : 8 of 39

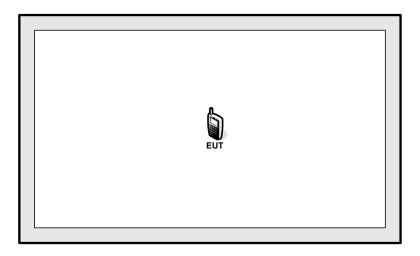
 TEL: +86-755-8637-9589
 Report Issued Date
 : Dec. 06, 2017

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

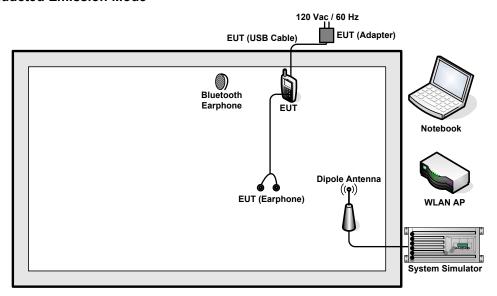
 FCC ID: YHLBLUPUREVIEW
 Report Template No.: BU5-FR15CWL Version 2.0

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 9 of 39 Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

2.4 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.	Notebook	Lenovo	E540	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
4.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
5.	SD Card	N/A	MicroSD HC	FCC DoC	N/A	N/A

2.5 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 Notebook under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 5 + 10 = 15 (dB)

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 10 of 39
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

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 v04.
- 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



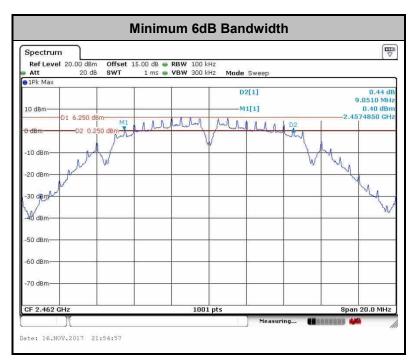
Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 11 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.



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

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 12 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

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 v04 section 9.1.2 PKPM1 Peak power meter method.
- 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.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 13 of 39
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

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 v04
- 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)
- Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully 5. 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



Sporton International (Shenzhen) Inc. TEL: +86-755-8637-9589

FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW

: 14 of 39 Page Number Report Issued Date: Dec. 06, 2017

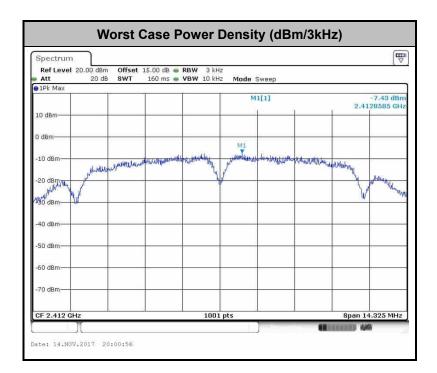
: Rev. 01

Report No.: FR7O1304C

Report Version Report Template No.: BU5-FR15CWL Version 2.0

3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 15 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report Template No.: BU5-FR15CWL Version 2.0

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.

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 v04.
- 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.
- 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.
- 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



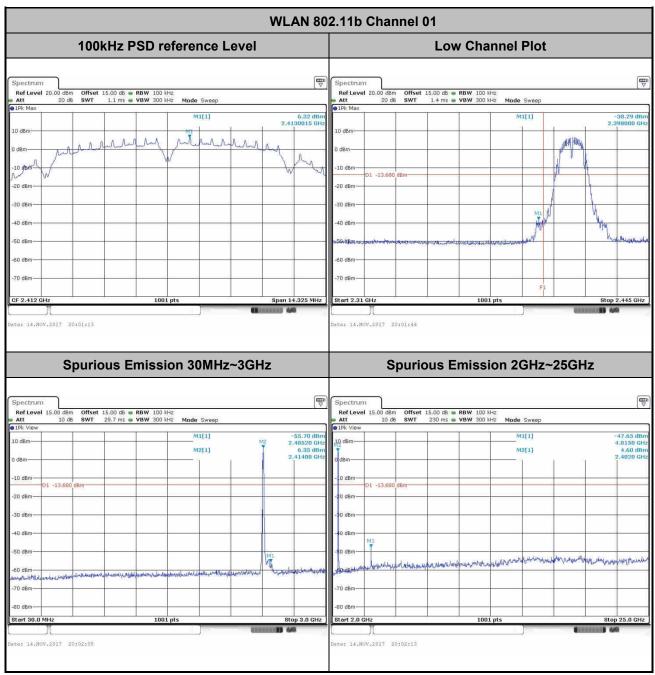
Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 16 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR701304C

3.4.5 Test Result of Conducted Band Edges and Spurious Emission

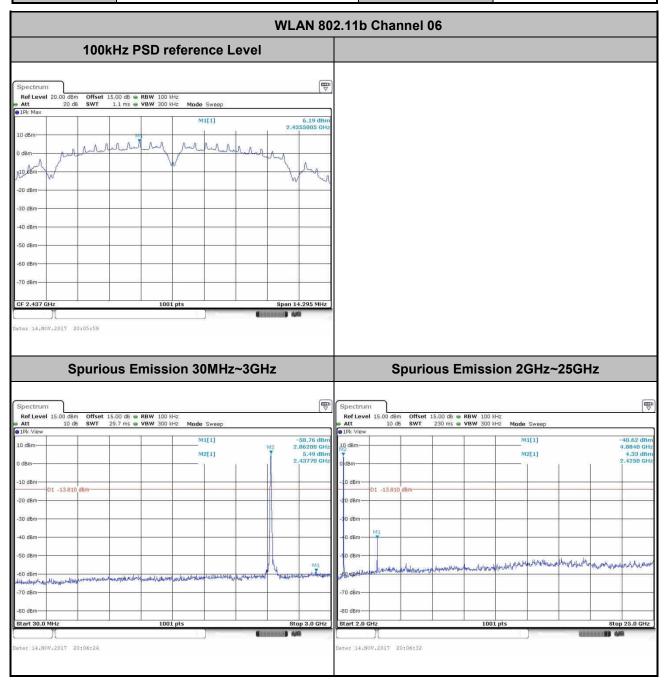
Test Mode :	802.11b	Temperature :	24~26 ℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Rain Wang



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 17 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

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



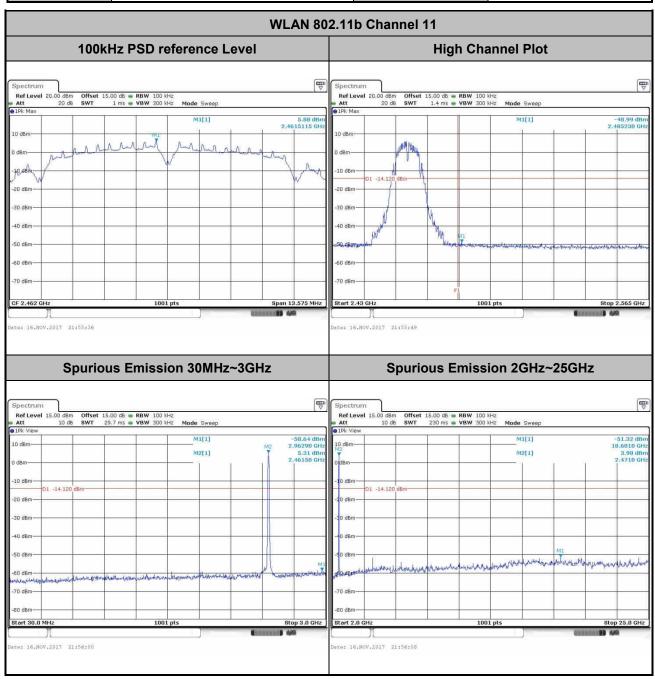
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 18 of 39

Report Issued Date : Dec. 06, 2017

Report Version : Rev. 01

Report Template No.: BU5-FR15CWL Version 2.0

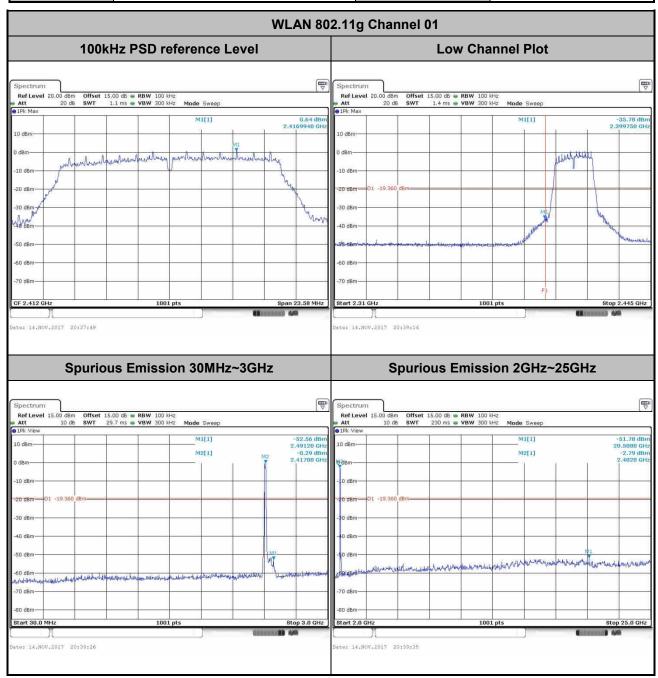
Test Mode :	802.11b	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Rain Wang



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 19 of 39 Report Issued Date: Dec. 06, 2017 Report Version : Rev. 01

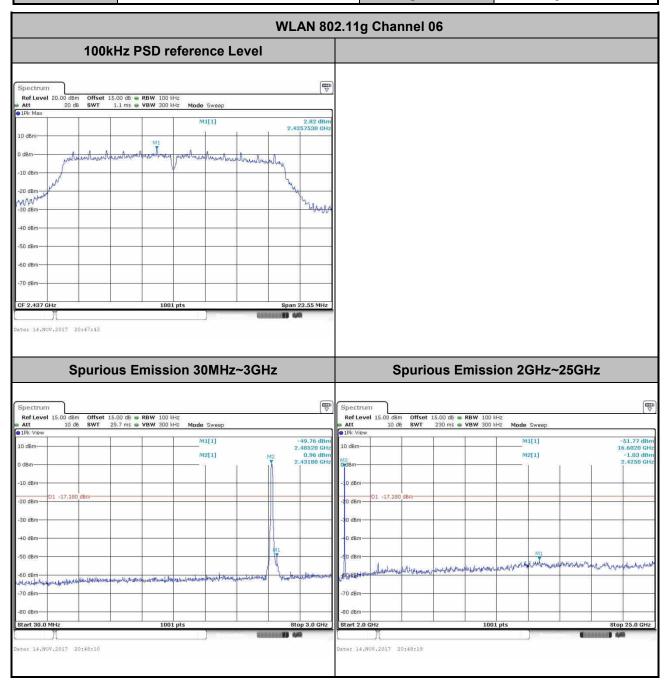
Report No.: FR7O1304C

Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Rain Wang



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 20 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

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



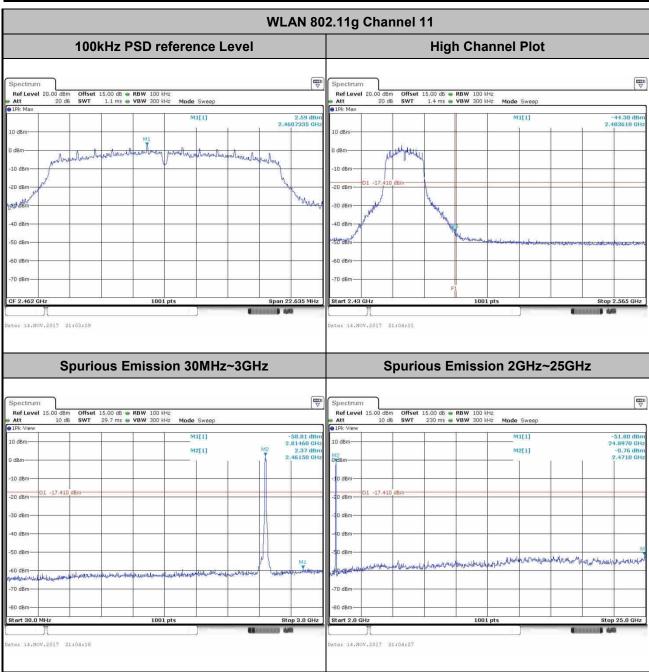
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 21 of 39

Report Issued Date : Dec. 06, 2017

Report Version : Rev. 01

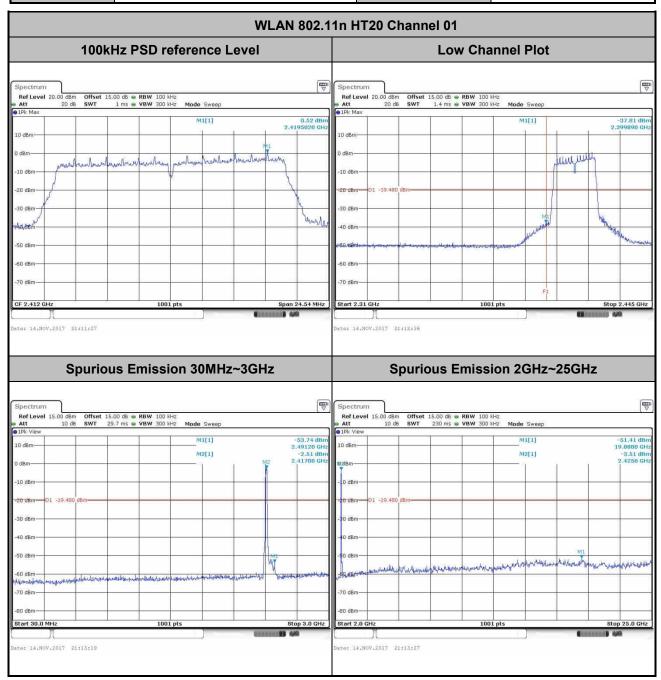
Report Template No.: BU5-FR15CWL Version 2.0

Test Mode :	802.11g	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Rain Wang



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 22 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

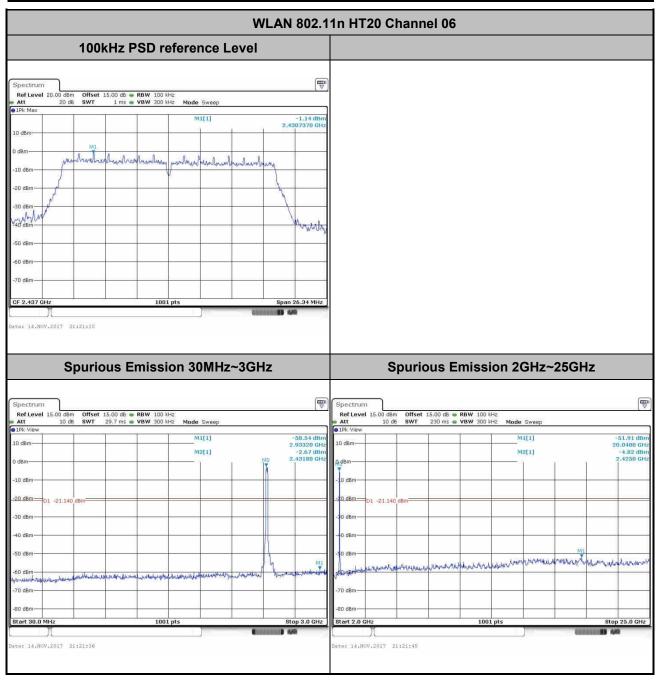
Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Rain Wang



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 23 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

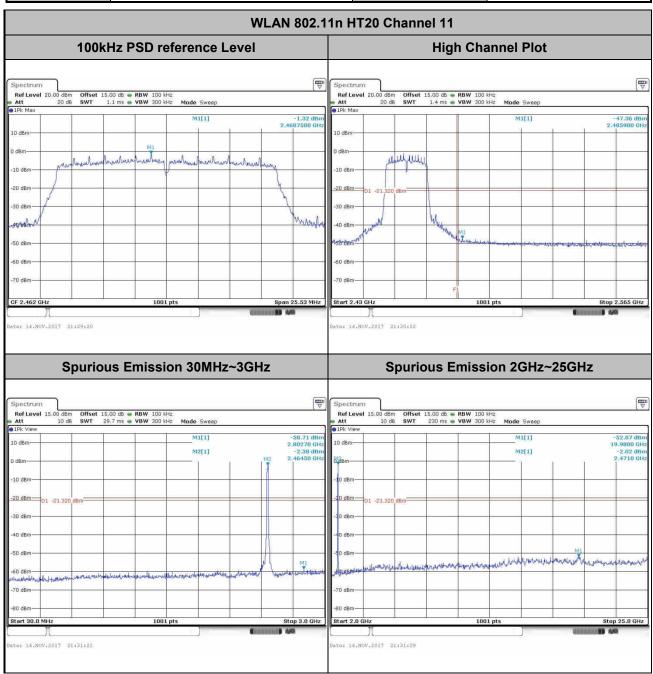
Report No.: FR7O1304C

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



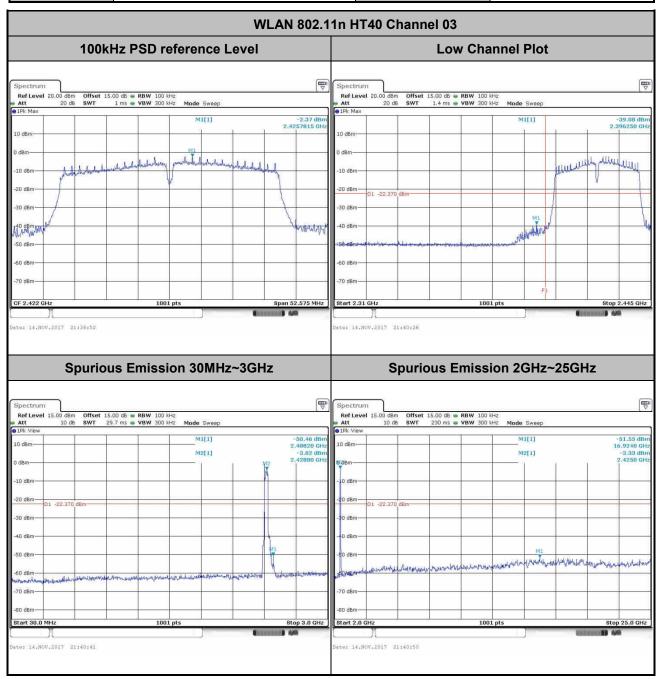
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 24 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel:	11	Test Engineer :	Rain Wang



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 25 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

Test Mode :	802.11n HT40	Temperature :	24~26℃
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel:	03	Test Engineer :	Rain Wang



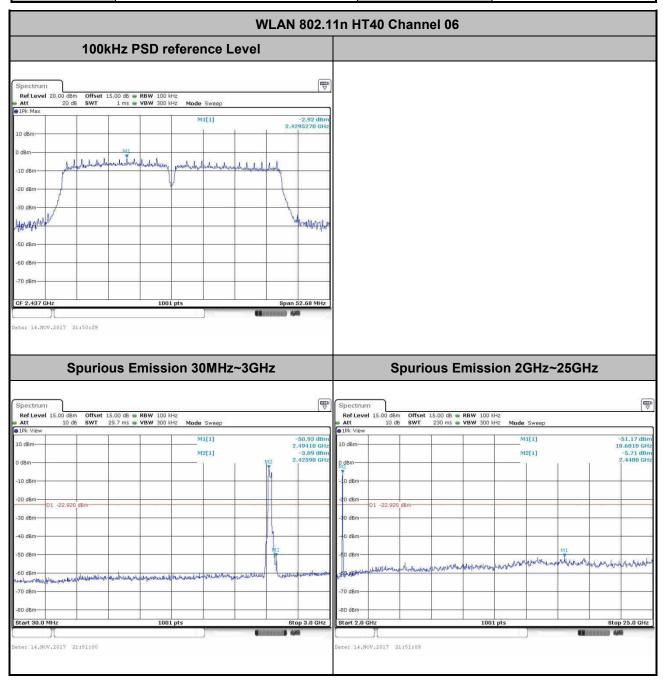
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 26 of 39

Report Issued Date : Dec. 06, 2017

Report Version : Rev. 01

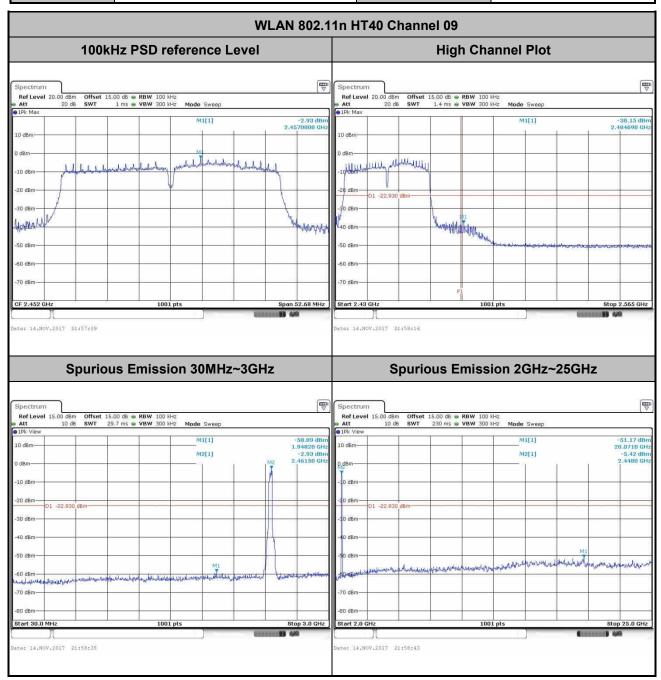
Report No.: FR7O1304C

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



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 27 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

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



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 28 of 39

Report Issued Date : Dec. 06, 2017

Report Version : Rev. 01

Report No.: FR7O1304C

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 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.

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 29 of 39
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
- 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.

Sporton International (Shenzhen) Inc. TEL: +86-755-8637-9589

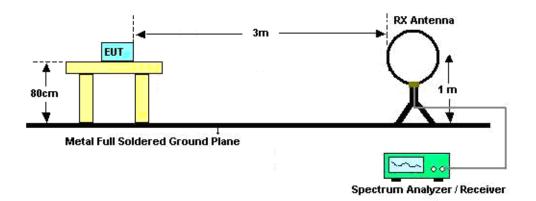
FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 30 of 39
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

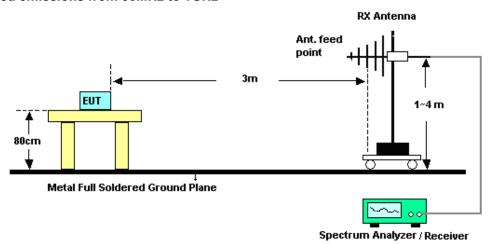
Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

3.5.4 Test Setup

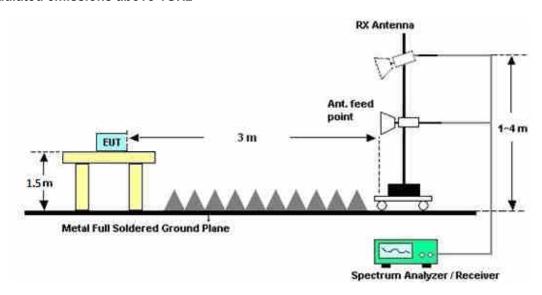
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 31 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

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 was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 32 of 39
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

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.

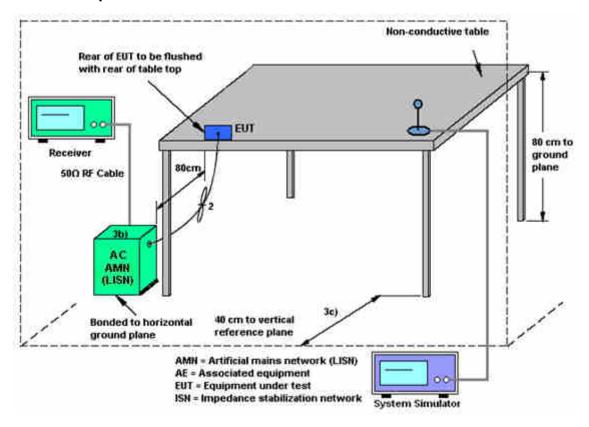
Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 33 of 39
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

3.6.4 Test Setup

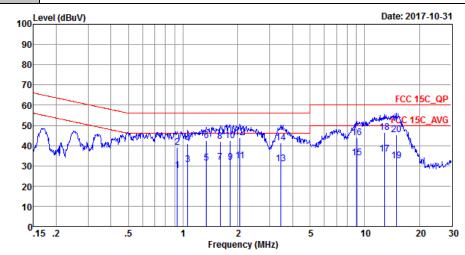


TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 34 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	22~25℃			
Test Engineer :	Peng Wang	Relative Humidity :	50~55%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from					
	Adapter) + Earphone					



: CO01-SZ

Condition: FCC 15C QP LISN 20170907 L LINE

Project : 701304

Mode : Mode 1

: 351372098274473/351372098274481 IMEI

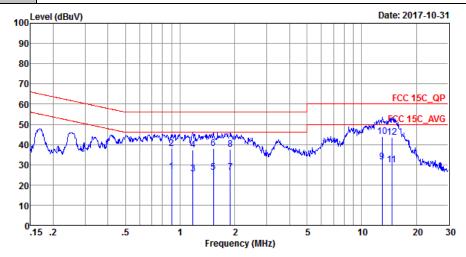
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
_	MHz	dBuV	dB	dBuV	dBu∀	dB	dB	
1	0.93	27.75	-18.25	46.00	17.60	0.06	10.09	Average
2	0.93	39.05	-16.95	56.00	28.90	0.06	10.09	QP
3	1.06	30.66	-15.34	46.00	20.50	0.07	10.09	Average
4	1.06	40.96	-15.04	56.00	30.80	0.07		
5	1.34	31.38	-14.62	46.00	21.19	0.09	10.10	Average
6	1.34	42.38	-13.62	56.00	32.19	0.09	10.10	QP
7	1.60	31.70	-14.30	46.00	21.50	0.10	10.10	Average
8	1.60	42.00	-14.00	56.00	31.80	0.10	10.10	QP
9	1.82	31.71	-14.29	46.00	21.50	0.10	10.11	Average
10	1.82	42.41	-13.59	56.00	32.20	0.10	10.11	QP
11	2.05	32.62	-13.38	46.00	22.40	0.11	10.11	Average
12 *	2.05	43.92	-12.08	56.00	33.70	0.11	10.11	QP
13	3.45	31.12	-14.88	46.00	20.80	0.17	10.15	Average
14	3.45	41.22	-14.78	56.00	30.90	0.17	10.15	QP
15	9.06	34.03	-15.97	50.00	23.40	0.32	10.31	Average
16	9.06	43.93	-16.07	60.00	33.30	0.32	10.31	QP
17	12.85	35.83	-14.17	50.00	25.00	0.45	10.38	Average
18	12.85	46.53	-13.47	60.00	35.70	0.45	10.38	QP
19	14.91	32.62	-17.38	50.00	21.70	0.51	10.41	Average
20	14.91	45.52	-14.48	60.00	34.60	0.51	10.41	QP

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 35 of 39 Report Issued Date : Dec. 06, 2017 Report Version : Rev. 01

Report No.: FR7O1304C



Test Mode :	Mode 1	Temperature :	22~25 ℃			
Test Engineer :	Peng Wang	Relative Humidity :	50~55%			
Test Voltage :	120Vac / 60Hz	Phase :	Neutral			
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from					
	Adapter) + Earphone					



Site : CO01-SZ

Condition: FCC 15C_QP LISN_20170907_N NEUTRAL

Project : 701304

Mode

: Mode 1 : 351372098274473/351372098274481 IMEI

			Over	TITULE	Read	TITOM	Capie	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBuV	dBuV	dB	dB	
1	0.90	26.43	-19.57	46.00	16.30	0.04	10.09	Average
2	0.90	37.83	-18.17	56.00	27.70	0.04	10.09	QP
3	1.18	25.64	-20.36	46.00	15.50	0.05	10.09	Average
4	1.18	37.34	-18.66	56.00	27.20	0.05	10.09	QP
5	1.53	26.05	-19.95	46.00	15.90	0.05	10.10	Average
6	1.53	37.85	-18.15	56.00	27.70	0.05	10.10	QP
7	1.89	26.16	-19.84	46.00	16.00	0.05	10.11	Average
8	1.89	37.66	-18.34	56.00	27.50	0.05	10.11	QP
9	12.99	31.25	-18.75	50.00	20.60	0.27	10.38	Average
10 *	12.99	43.95	-16.05	60.00	33.30	0.27	10.38	QP
11	14.67	29.93	-20.07	50.00	19.20	0.32	10.41	Average
12	14.67	43.43	-16.57	60.00	32.70	0.32	10.41	QP

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 36 of 39 Report Issued Date : Dec. 06, 2017 Report Version : Rev. 01

Report No.: FR7O1304C

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 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.

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 37 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration	Test Date	Due Date	Remark
Spectrum	R&S	FSV40	101078	9kHz~40GHz	Date Apr. 20, 2017	Oct. 31, 2017~	Apr. 19, 2018	Conducted
Analyzer Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 06, 2017	Nov. 16, 2017 Oct. 31, 2017~ Nov. 16, 2017	Jan. 05, 2018	(TH01-SZ) Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 06, 2017	Oct. 31, 2017~ Nov. 16, 2017	Jan. 05, 2018	Conducted (TH01-SZ)
CBT BLUETOOTH TESTER	R&S	СВТ	100963	N/A	Jan. 03, 2017	Oct. 31, 2017~ Nov. 16, 2017	Jan. 02, 2018	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY522601 85	20Hz~26.5GHz	Apr. 20, 2017	Oct. 31, 2017~ Nov. 07, 2017	Apr.19, 2018	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 14, 2017	Oct. 31, 2017~ Nov. 07, 2017	May 13, 2018	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Apr. 25, 2017	Oct. 31, 2017~ Nov. 07, 2017	Apr. 24, 2018	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Nov. 19, 2016	Oct. 31, 2017~ Nov. 07, 2017	Nov. 18, 2017	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Jun. 16, 2017	Oct. 31, 2017~ Nov. 07, 2017	Jun. 15, 2018	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 20, 2017	Oct. 31, 2017~ Nov. 07, 2017	Apr.19, 2018	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1707137	1GHz~18GHz	Oct. 19, 2017	Oct. 31, 2017~ Nov. 07, 2017	Oct. 18, 2018	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY532701 04	0.5GHz~26.5Gh z	Oct. 19, 2017	Oct. 31, 2017~ Nov. 07, 2017	Oct. 18, 2018	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Oct. 31, 2017~ Nov. 07, 2017	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 31, 2017~ Nov. 07, 2017	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 31, 2017~ Nov. 07, 2017	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jan.06, 2017	Oct. 31, 2017	Jan. 05, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Jan.05, 2017	Oct. 31, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103892	9kHz~30MHz	Jan.05, 2017	Oct. 31, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul. 19, 2017	Oct. 31, 2017	Jul. 18, 2018	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 38 of 39
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.5dB
of 95% (U = 2Uc(y))	2.305

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB
0195% (U = 2UC(y))	

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

- 1		
	Measuring Uncertainty for a Level of Confidence	5.2dB
	of 95% (U = 2Uc(y))	5.2ub

<u>Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	5.1dB
of 95% (U = 2Uc(y))	3. IUB

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : 39 of 39
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

Appendix A. Conducted Test Results

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : A1 of A1
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

A1 - DTS Part

Test Engineer:	Rain Wang	Temperature:	24~26	°C
Test Date:	2017/10/31~2017/11/16	Relative Humidity:	50~53	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

	2.4GHz Band													
Mod.	Data Rate	NTX	MHz) BW		Occupied	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail						
11b	1Mbps	1	1	2412	12.69	9.55	0.50	Pass						
11b	1Mbps	1	6	2437	12.79	9.53	0.50	Pass						
11b	1Mbps	1	11	2462	12.39	9.05	0.50	Pass						
11g	6Mbps	1	1	2412	17.98	15.72	0.50	Pass						
11g	6Mbps	1	6	2437	18.13	15.70	0.50	Pass						
11g	6Mbps	1	11	2462	17.63	15.09	0.50	Pass						
HT20	MCS0	1	1	2412	18.73	16.36	0.50	Pass						
HT20	MCS0	1	6	2437	18.83	17.56	0.50	Pass						
HT20	MCS0	1	11	2462	18.43	17.02	0.50	Pass						
HT40	MCS0	1	3	2422	35.86	35.05	0.50	Pass						
HT40	MCS0	1	6	2437	36.46	35.13	0.50	Pass						
HT40	MCS0	1	9	2452	36.36	35.13	0.50	Pass						

TEST RESULTS DATA Peak Power Table

					;	2.4GHz Band	I			
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	18.99	30.00	-0.80	18.19	36.00	Pass
11b	1Mbps	1	6	2437	18.63	30.00	-0.80	17.83	36.00	Pass
11b	1Mbps	1	11	2462	18.33	30.00	-0.80	17.53	36.00	Pass
11g	6Mbps	1	1	2412	21.48	30.00	-0.80	20.68	36.00	Pass
11g	6Mbps	1	6	2437	21.77	30.00	-0.80	20.97	36.00	Pass
11g	6Mbps	1	11	2462	21.17	30.00	-0.80	20.37	36.00	Pass
HT20	MCS0	1	1	2412	20.74	30.00	-0.80	19.94	36.00	Pass
HT20	MCS0	1	6	2437	20.27	30.00	-0.80	19.47	36.00	Pass
HT20	MCS0	1	11	2462	19.63	30.00	-0.80	18.83	36.00	Pass
HT40	MCS0	1	3	2422	21.04	30.00	-0.80	20.24	36.00	Pass
HT40	MCS0	1	6	2437	21.22	30.00	-0.80	20.42	36.00	Pass
HT40	MCS0	1	9	2452	20.49	30.00	-0.80	19.69	36.00	Pass

TEST RESULTS DATA Average Power Table (Reporting Only)

			:	2.4GHz I	Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)								
11b	1Mbps	1	1	2412	0.00	16.05								
11b	1Mbps	1	6	2437	0.00	15.87								
11b	1Mbps	1	11	2462	0.00	15.32								
11g	6Mbps	1	1	2412	0.12	11.94								
11g	6Mbps	1	6	2437	0.12	13.66								
11g	6Mbps	1	11	2462	0.12	13.18								
HT20	MCS0	1	1	2412	0.14	11.16								
HT20	MCS0	1	6	2437	0.14	11.02								
HT20	MCS0	1	11	2462	0.14	10.29								
HT40	MCS0	1	3	2422	0.23	11.12								
HT40	MCS0	1	6	2437	0.23	11.01								
HT40	MCS0	1	9	2452	0.23	10.76								

TEST RESULTS DATA Peak Power Density

				:	2.4GHz Band	i		
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	-7.43	-0.80	8.00	Pass
11b	1Mbps	1	6	2437	-7.53	-0.80	8.00	Pass
11b	1Mbps	1	11	2462	-8.41	-0.80	8.00	Pass
11g	6Mbps	1	1	2412	-13.44	-0.80	8.00	Pass
11g	6Mbps	1	6	2437	-10.76	-0.80	8.00	Pass
11g	6Mbps	1	11	2462	-10.66	-0.80	8.00	Pass
HT20	MCS0	1	1	2412	-12.66	-0.80	8.00	Pass
HT20	MCS0	1	6	2437	-14.70	-0.80	8.00	Pass
HT20	MCS0	1	11	2462	-14.55	-0.80	8.00	Pass
HT40	MCS0	1	3	2422	-16.39	-0.80	8.00	Pass
HT40	MCS0	1	6	2437	-16.64	-0.80	8.00	Pass
HT40	MCS0	1	9	2452	-16.38	-0.80	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		(MHz)	(dBµV/m)	(dB)	($dB\mu V/m$)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2381.4	45.4	-28.6	74	39.96	31.52	6.73	32.81	276	321	Р	Н
		2389.695	34.92	-19.08	54	29.4	31.5	6.81	32.79	276	321	Α	Н
802.11b	*	2412	97.79	-	-	92.18	31.57	6.81	32.77	276	321	Р	Н
CH 01 2412MHz	*	2412	94.01	-	1	88.4	31.57	6.81	32.77	276	321	Α	Н
		2388.015	45.87	-28.13	74	40.35	31.5	6.81	32.79	109	113	Р	V
		2390	35.57	-18.43	54	30.05	31.5	6.81	32.79	109	113	Α	٧
	*	2412	103.55	-	-	97.94	31.57	6.81	32.77	109	113	Р	٧
	*	2412	101.79	-	-	96.18	31.57	6.81	32.77	109	113	Α	٧
		2365.72	45.85	-28.15	74	40.4	31.54	6.73	32.82	344	313	Р	Н
		2389.94	34.77	-19.23	54	29.25	31.5	6.81	32.79	344	313	Α	Н
	*	2437	97.73	-	-	91.89	31.71	6.86	32.73	344	313	Р	Н
	*	2437	95.98	-	-	90.14	31.71	6.86	32.73	344	313	Α	Н
		2483.69	46.07	-27.93	74	39.99	31.86	6.91	32.69	344	313	Р	Н
802.11b		2485.51	35.44	-18.56	54	29.36	31.86	6.91	32.69	344	313	Α	Н
CH 06 2437MHz		2346.4	46.03	-27.97	74	40.59	31.55	6.73	32.84	100	316	Р	V
2431 WITZ		2389.24	34.89	-19.11	54	29.37	31.5	6.81	32.79	100	316	Α	V
	*	2437	103.48	-	-	97.64	31.71	6.86	32.73	100	316	Р	٧
	*	2437	100.79	-	-	94.95	31.71	6.86	32.73	100	316	Α	٧
		2488.17	45.63	-28.37	74	39.46	31.93	6.91	32.67	100	316	Р	٧
		2489.78	35.8	-18.2	54	29.63	31.93	6.91	32.67	100	316	Α	٧

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B1 of B15
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C



	*	2462	97.95	-	-	92.01	31.79	6.86	32.71	295	317	Р	Н
	*	2462	96.21	-	-	90.27	31.79	6.86	32.71	295	317	Α	Н
		2483.88	45.68	-28.32	74	39.6	31.86	6.91	32.69	295	317	Р	Н
802.11b		2483.88	36.22	-17.78	54	30.14	31.86	6.91	32.69	295	317	Α	Н
CH 11 2462MHz	*	2462	103.29	-	-	97.35	31.79	6.86	32.71	109	88	Р	V
2402WITZ	*	2462	100.91	-	-	94.97	31.79	6.86	32.71	109	88	Α	٧
		2483.92	46.39	-27.61	74	40.31	31.86	6.91	32.69	109	88	Р	V
		2483.84	37.05	-16.95	54	30.97	31.86	6.91	32.69	109	88	Α	٧
Remark		lo other spurio		st Peak	and Avera	ae limit lin	e.						

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B2 of B15 Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01 Report Template No.: BU5-FR15CWL Version 2.0

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)		Peak Avg. (P/A)	
802.11b CH 01		4824	44.55	-29.45	74	59.08	33.77	10.89	59.19	185	255	Р	Н
2412MHz		4824	44.67	-29.33	74	59.2	33.77	10.89	59.19	185	255	Р	V
		4874	42.95	-31.05	74	57.31	33.75	10.92	59.03	165	106	Р	Н
802.11b		7311	49.07	-24.93	74	59.59	35.46	13.29	59.27	174	100	Р	Н
CH 06 2437MHz		4874	43.44	-30.56	74	57.8	33.75	10.92	59.03	165	106	Р	V
2437 WIFIZ		7311	48.83	-25.17	74	59.35	35.46	13.29	59.27	174	100	Р	٧
		4924	43.52	-30.48	74	57.67	33.73	10.99	58.87	150	285	Р	Н
802.11b		7386	47.74	-26.26	74	58.17	35.61	13.12	59.16	155	274	Р	Н
CH 11 2462MHz		4924	44.3	-29.7	74	58.45	33.73	10.99	58.87	150	285	Р	V
∠40∠IVI⊓Z		7386	47.64	-26.36	74	58.07	35.61	13.12	59.16	155	274	Р	V

Remark

. No other spurious found.

2. 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: YHLBLUPUREVIEW Page Number : B3 of B15
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01
Report Template No.: BU5-FR15CWL Version 2.0

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

		_							_				
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	
Ant.		/ BALL— \	(dD.:)//ss \	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		, ,	(H/V)
		2387.07	46.02	-27.98	74	40.5	31.5	6.81	32.79	278	318	Р	Н
		2390	37.31	-16.69	54	31.79	31.5	6.81	32.79	278	318	Α	Н
902 44 ~	*	2412	94.95	-	-	89.34	31.57	6.81	32.77	278	318	Р	Н
802.11g CH 01	*	2412	88.35	-	-	82.74	31.57	6.81	32.77	278	318	Α	Н
2412MHz		2390	48.6	-25.4	74	43.08	31.5	6.81	32.79	107	116	Р	V
24 12 WII 12		2390	38.13	-15.87	54	32.61	31.5	6.81	32.79	107	116	Α	V
	*	2412	101.64	-	-	96.03	31.57	6.81	32.77	107	116	Р	٧
	*	2412	95.28	-	-	89.67	31.57	6.81	32.77	107	116	Α	٧
		2319.8	44.87	-29.13	74	39.51	31.57	6.65	32.86	345	319	Р	Н
		2389.52	36.26	-17.74	54	30.74	31.5	6.81	32.79	345	319	Α	Н
	*	2437	94.41	-	-	88.57	31.71	6.86	32.73	345	319	Р	Н
	*	2437	87.79	-	-	81.95	31.71	6.86	32.73	345	319	Α	Н
		2485.58	46.39	-27.61	74	40.31	31.86	6.91	32.69	345	319	Р	Н
802.11g		2487.75	37.41	-16.59	54	31.24	31.93	6.91	32.67	345	319	Α	Н
CH 06 2437MHz		2381.4	46.4	-27.6	74	40.96	31.52	6.73	32.81	100	314	Р	٧
2437 WIF1Z		2389.94	36.35	-17.65	54	30.83	31.5	6.81	32.79	100	314	Α	٧
	*	2437	101.23	-	-	95.39	31.71	6.86	32.73	100	314	Р	V
	*	2437	94.37	-	-	88.53	31.71	6.86	32.73	100	314	Α	V
		2497.34	48.28	-25.72	74	42.11	31.93	6.91	32.67	100	314	Р	V
		2488.8	37.7	-16.3	54	31.53	31.93	6.91	32.67	100	314	Α	٧

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B4 of B15
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C



	*	2462	94.33	-	-	88.39	31.79	6.86	32.71	100	125	Р	Н
	*	2462	87.46	1	-	81.52	31.79	6.86	32.71	100	125	Α	Н
000.44		2483.96	52.44	-21.56	74	46.36	31.86	6.91	32.69	100	125	Р	Н
802.11g CH 11		2483.56	39.74	-14.26	54	33.66	31.86	6.91	32.69	100	125	Α	Н
2462MHz	*	2462	101.97	1	-	96.03	31.79	6.86	32.71	112	250	Р	V
2402141112	*	2462	94.75	-	-	88.81	31.79	6.86	32.71	112	250	Α	V
		2483.72	56.39	-17.61	74	50.31	31.86	6.91	32.69	112	250	Р	V
		2483.8	44.43	-9.57	54	38.35	31.86	6.91	32.69	112	250	Α	٧

Remark

1. No other spurious found.

2. 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: YHLBLUPUREVIEW Page Number : B5 of B15
Report Issued Date : Dec. 06, 2017
Report Version : Bey 01

Report No.: FR7O1304C

Report Version : Rev. 01

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Pos	Peak Avg. (P/A)	
802.11g CH 01		4824	44.37	-29.63	74	58.9	33.77	10.89	59.19	185	255	Р	Н
2412MHz		4824	43.13	-30.87	74	57.66	33.77	10.89	59.19	185	255	Р	V
		4874	42.98	-31.02	74	57.34	33.75	10.92	59.03	165	106	Р	Н
802.11g CH 06		7311	48.41	-25.59	74	58.93	35.46	13.29	59.27	174	100	Р	Н
2437MHz		4874	43.63	-30.37	74	57.99	33.75	10.92	59.03	165	106	Р	٧
2437 WII 12		7311	48.11	-25.89	74	58.63	35.46	13.29	59.27	174	100	Р	V
000 44		4924	44.13	-29.87	74	58.28	33.73	10.99	58.87	150	285	Р	Н
802.11g		7386	47.07	-26.93	74	57.5	35.61	13.12	59.16	155	274	Р	Н
CH 11 2462MHz		4924	44.66	-29.34	74	58.81	33.73	10.99	58.87	150	285	Р	V
2402101112		7386	47.38	-26.62	74	57.81	35.61	13.12	59.16	155	274	Р	V

Remark

. No other spurious found.

2. 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: YHLBLUPUREVIEW Page Number : B6 of B15
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01

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)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.8	47.08	-26.92	74	41.56	31.5	6.81	32.79	100	47	Р	Н
		2390	37	-17	54	31.48	31.5	6.81	32.79	100	47	Α	Н
802.11n	*	2412	90.74	-	-	85.13	31.57	6.81	32.77	100	47	Р	Н
HT20	*	2412	83.48	-	-	77.87	31.57	6.81	32.77	100	47	Α	Н
CH 01		2389.59	51.67	-22.33	74	46.15	31.5	6.81	32.79	152	300	Р	/
2412MHz		2390	39.09	-14.91	54	33.57	31.5	6.81	32.79	152	300	Α	7
	*	2412	97.39	-	-	91.78	31.57	6.81	32.77	152	300	Р	7
	*	2412	90.12	-	-	84.51	31.57	6.81	32.77	152	300	Α	/
		2330.02	44.9	-29.1	74	39.5	31.57	6.65	32.82	140	35	Р	Н
		2389.94	35.62	-18.38	54	30.11	31.5	6.81	32.8	140	35	Α	Н
	*	2437	89.79	-	-	84	31.71	6.86	32.78	140	35	Р	Н
	*	2437	82.86	-	-	77.07	31.71	6.86	32.78	140	35	Α	Н
802.11n		2483.76	45.54	-28.46	74	39.54	31.86	6.91	32.77	140	35	Р	Н
HT20		2484.6	36.6	-17.4	54	30.6	31.86	6.91	32.77	140	35	Α	Н
CH 06		2358.3	45.45	-28.55	74	39.99	31.54	6.73	32.81	196	234	Р	V
2437MHz		2389.94	35.91	-18.09	54	30.4	31.5	6.81	32.8	196	234	Α	V
	*	2437	96.88	-	-	91.09	31.71	6.86	32.78	196	234	Р	V
	*	2437	89.18	-	-	83.39	31.71	6.86	32.78	196	234	Α	V
		2484.67	46.76	-27.24	74	40.76	31.86	6.91	32.77	196	234	Р	V
		2489.43	37.36	-16.64	54	31.28	31.93	6.91	32.76	196	234	Α	V

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B7 of B15
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C



	*	2462	89.95	_	-	84.07	31.79	6.86	32.77	118	140	Р	Н
	*	2462	83.15	-	-	77.27	31.79	6.86	32.77	118	140	Α	Н
802.11n		2484.04	51.14	-22.86	74	45.14	31.86	6.91	32.77	118	140	Р	Н
HT20		2483.72	36.94	-17.06	54	30.94	31.86	6.91	32.77	118	140	Α	Н
CH 11	*	2462	96.37	-	-	90.49	31.79	6.86	32.77	108	241	Р	V
2462MHz	*	2462	90.13	-	-	84.25	31.79	6.86	32.77	108	241	Α	٧
		2484.12	57.81	-16.19	74	51.81	31.86	6.91	32.77	108	241	Р	٧
		2483.52	41.12	-12.88	54	35.12	31.86	6.91	32.77	108	241	Α	V

Remark

No other spurious found.

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B8 of B15
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

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

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. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	
802.11n HT20		4824	44.08	-29.92	74	58.61	33.77	10.89	59.19	185	255	Р	Н
CH 01 2412MHz		4824	44.08	-29.92	74	58.61	33.77	10.89	59.19	185	255	Р	V
802.11n		4874	43.46	-30.54	74	57.82	33.75	10.92	59.03	165	106	Р	Н
HT20		7311	47.46	-26.54	74	57.98	35.46	13.29	59.27	174	100	Р	Н
CH 06		4874	43.37	-30.63	74	57.73	33.75	10.92	59.03	165	106	Р	V
2437MHz		7311	47.54	-26.46	74	58.06	35.46	13.29	59.27	174	100	Р	٧
802.11n		4924	43.72	-30.28	74	57.87	33.73	10.99	58.87	150	285	Р	Н
HT20		7386	46.9	-27.1	74	57.33	35.61	13.12	59.16	155	274	Р	Н
CH 11		4924	43.48	-30.52	74	57.63	33.73	10.99	58.87	150	285	Р	٧
2462MHz		7386	47.5	-26.5	74	57.93	35.61	13.12	59.16	155	274	Р	V

Remark

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B9 of B15
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

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 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
		2389.52	53.39	-20.61	74	47.88	31.5	6.81	32.8	122	132	Р	Н
		2389.24	39.69	-14.31	54	34.18	31.5	6.81	32.8	122	132	Α	Н
	*	2422	88.21	-	-	82.54	31.64	6.81	32.78	122	132	Р	Н
	*	2422	82.16	-	-	76.49	31.64	6.81	32.78	122	132	Α	Н
802.11n		2485.02	45.49	-28.51	74	39.49	31.86	6.91	32.77	122	132	Р	Н
HT40		2485.58	36.81	-17.19	54	30.81	31.86	6.91	32.77	122	132	Α	Н
CH 03		2389.24	58.09	-15.91	74	52.58	31.5	6.81	32.8	125	276	Р	V
2422MHz		2389.8	44.44	-9.56	54	38.93	31.5	6.81	32.8	125	276	Α	V
	*	2422	95.8	-	-	90.13	31.64	6.81	32.78	125	276	Р	V
	*	2422	88.37	-	-	82.7	31.64	6.81	32.78	125	276	Α	V
		2487.05	47.93	-26.07	74	41.93	31.86	6.91	32.77	125	276	Р	V
		2486.98	38.84	-15.16	54	32.84	31.86	6.91	32.77	125	276	Α	V
		2381.96	45.64	-28.36	74	40.19	31.52	6.73	32.8	140	136	Р	Н
		2386.86	36.22	-17.78	54	30.71	31.5	6.81	32.8	140	136	Α	Н
	*	2437	87.54	-	-	81.75	31.71	6.86	32.78	140	136	Р	Н
	*	2437	81.72	-	-	75.93	31.71	6.86	32.78	140	136	Α	Н
802.11n		2496.5	45.86	-28.14	74	39.78	31.93	6.91	32.76	140	136	Р	Н
HT40		2486.21	37.01	-16.99	54	31.01	31.86	6.91	32.77	140	136	Α	Н
CH 06		2357.6	45.36	-28.64	74	39.9	31.54	6.73	32.81	107	276	Р	٧
2437MHz		2389.94	37.47	-16.53	54	31.96	31.5	6.81	32.8	107	276	Α	٧
	*	2437	95.6	-	-	89.81	31.71	6.86	32.78	107	276	Р	٧
	*	2437	88.1	-	-	82.31	31.71	6.86	32.78	107	276	Α	V
		2483.76	50	-24	74	44	31.86	6.91	32.77	107	276	Р	V
		2485.3	39.12	-14.88	54	33.12	31.86	6.91	32.77	107	276	Α	V

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B10 of B15
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C



		2333.52	44.9	-29.1	74	39.5	31.57	6.65	32.82	114	39	Р	Н
		2389.52	36.1	-17.9	54	30.59	31.5	6.81	32.8	114	39	Α	Н
	*	2452	89.86	-	-	84.07	31.71	6.86	32.78	114	39	Р	Н
	*	2452	83.53	-	-	77.74	31.71	6.86	32.78	114	39	Α	Н
802.11n		2484.88	56.96	-17.04	74	50.96	31.86	6.91	32.77	114	39	Р	Н
HT40		2484.67	42.74	-11.26	54	36.74	31.86	6.91	32.77	114	39	Α	Н
CH 09		2376.22	46.16	-27.84	74	40.71	31.52	6.73	32.8	110	242	Р	٧
2452MHz		2385.88	36.59	-17.41	54	31.08	31.5	6.81	32.8	110	242	Α	V
	*	2452	95.69	-	-	89.9	31.71	6.86	32.78	110	242	Р	V
	*	2452	89.25	-	-	83.46	31.71	6.86	32.78	110	242	Α	V
		2484.81	60.73	-13.27	74	54.73	31.86	6.91	32.77	110	242	Р	V
		2484.67	45.33	-8.67	54	39.33	31.86	6.91	32.77	110	242	Α	V

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW

: B11 of B15 Page Number Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01

^{1.} No other spurious found.

Remark

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

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

WIFI Peak Pol. Note Frequency Limit Read Antenna Cable Preamp Ant Table Level Over Limit Line **Factor** Pos Pos Avg. Ant. Level Loss Factor (dBµV/m) 1 (MHz) (dB) (dB \(V/m \) (dB_µV) (dB/m) (dB) (dB) (cm) (deg) (P/A) (H/V) 4844 44.45 -29.55 74 58.9 33.77 10.92 59.14 150 350 Н 802.11n 47.56 74 200 360 Ρ **HT40** 7266 -26.44 58.1 35.4 13.38 59.32 Η CH 03 4844 44.61 -29.39 74 59.06 33.77 10.92 59.14 150 350 Ρ ٧ 2422MHz 7266 47.28 -26.72 57.82 35.4 59.32 200 360 Ρ V 74 13.38 4874 43.88 -30.12 74 58.24 33.75 10.92 59.03 165 230 Ρ Н 802.11n 7311 48.18 -25.82 74 58.7 35.46 13.29 59.27 186 323 Ρ Н **HT40 CH 06** Ρ 4874 45.06 -28.94 74 59.42 33.75 10.92 59.03 165 230 ٧ 2437MHz 7311 49.2 -24.8 74 59.72 35.46 13.29 59.27 186 323 Ρ ٧ 4904 44.17 -29.83 74 58.4 33.74 10.95 58.92 150 360 Ρ Н 802.11n **HT40** 7356 47.47 -26.53 74 57.92 35.55 13.21 59.21 165 335 Ρ Н **CH 09** 4904 44.08 -29.92 74 58.31 33.74 10.95 58.92 150 360 Ρ V 2452MHz -25.51 Ρ ٧ 7356 48.49 74 58.94 35.55 13.21 59.21 165 335

Remark

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B12 of B15
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

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		(MHz)	(dBµV/m)	(dB)	($dB\mu V/m$)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		31.94	26.24	-13.76	40	30.43	27.14	0.27	31.6	-	-	Р	Н
		97.9	18.49	-25.01	43.5	30.64	18.52	0.83	31.5	-	-	Р	Н
		262.8	22.11	-23.89	46	31.02	20.2	1.91	31.02	-	-	Р	Н
		443.22	27.98	-18.02	46	30.13	26.4	2.55	31.1	-	-	Р	Н
2.4GHz		688.63	30.44	-15.56	46	30.77	27.63	3.24	31.2	-	-	Р	Н
802.11n		951.5	32.75	-13.25	46	30.36	29.74	3.95	31.3	100	360	Р	Н
HT40		30	26.72	-13.28	40	30.39	27.7	0.23	31.6	-	-	Р	٧
LF		108.57	19	-24.5	43.5	31.05	18.51	0.93	31.49	-	-	Р	٧
		253.1	21.89	-24.11	46	30.68	20.35	1.87	31.01	-	-	Р	٧
		449.04	29.33	-16.67	46	31.2	26.66	2.57	31.1	-	-	Р	٧
		683.78	30.77	-15.23	46	31.14	27.6	3.23	31.2	-	-	Р	V
		954.41	33.19	-12.81	46	30.72	29.81	3.97	31.31	100	0	Р	V

Remark

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B13 of B15
Report Issued Date : Dec. 06, 2017

Report No.: FR7O1304C

Report Version : Rev. 01

^{1.} No other spurious found.

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

Note symbol

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

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : B14 of B15
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

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

Report No.: FR7O1304C

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)
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:

- 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(dBµV) 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(dBµV/m) Limit Line(dBµV/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".

Sporton International (Shenzhen) Inc. Page Number : B15 of B15 TEL: +86-755-8637-9589 Report Issued Date : Dec. 06, 2017 FAX: +86-755-8637-9595 Report Version : Rev. 01

FCC ID: YHLBLUPUREVIEW Report Template No.: BU5-FR15CWL Version 2.0



Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100.00	-	-	10Hz
802.11g	97.17	1.391	0.719	1kHz
802.11n HT20	96.76	1.297	0.771	1kHz
802.11n HT40	94.92	0.649	1.540	3kHz

Sporton International (Shenzhen) Inc.

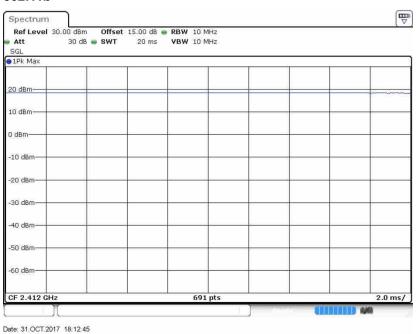
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : C1 of C3
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01

Report No.: FR7O1304C

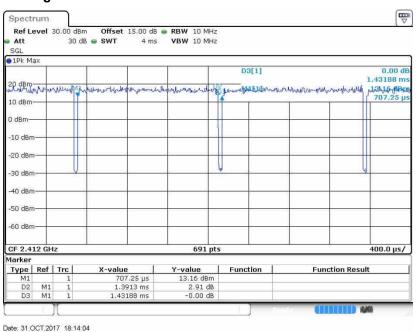


Report No.: FR7O1304C

802.11b



802.11g



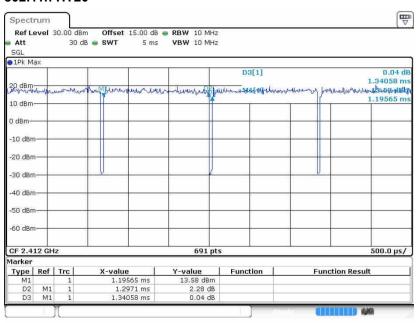
Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : C2 of C3
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01



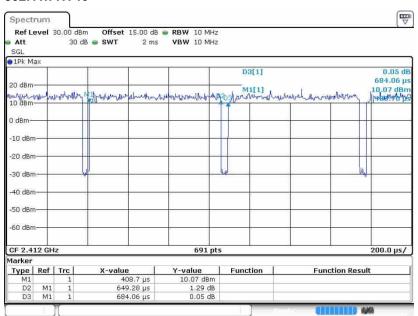
Report No.: FR7O1304C

802.11n HT20



Date: 31.OCT.2017 18:15:03

802.11n HT40



Date: 31.OCT.2017 18:16:02

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: YHLBLUPUREVIEW Page Number : C3 of C3
Report Issued Date : Dec. 06, 2017
Report Version : Rev. 01