

APPLICANT : CT Asia

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : Studio 6.0 HD

FCC ID : YHLBLUST60HD

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Feb. 28, 2014 and testing was completed on Mar. 17, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (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.

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 1 of 53
Report Issued Date : Mar. 19, 2014

Report Version : Rev. 01

2353



TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMAF	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	
	1.3	Feature of Equipment Under Test	
	1.4	Product Specification of Equipment Under Test	
	1.5	Modification of EUT	
	1.6	Testing Site	6
	1.7	Applied Standards	6
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	7
	2.1	Carrier Frequency Channel	7
	2.2	Pre-Scanned RF Power	8
	2.3	Test Mode	g
	2.4	Connection Diagram of Test System	10
	2.5	Support Unit used in test configuration and system	11
	2.6	EUT Operation Test Setup	11
	2.7	Measurement Results Explanation Example	11
3	TEST	RESULT	12
	3.1	6dB Bandwidth Measurement	12
	3.2	Output Power Measurement	14
	3.3	Power Spectral Density Measurement	17
	3.4	Conducted Band Edges and Spurious Emission Measurement	19
	3.5	Radiated Band Edges and Spurious Emission Measurement	29
	3.6	AC Conducted Emission Measurement	
	3.7	Antenna Requirements	51
4	LIST	OF MEASURING EQUIPMENT	52
5	UNC	ERTAINTY OF EVALUATION	53
Al	PPENI	DIX A. SETUP PHOTOGRAPHS	

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 2 of 53 Report Issued Date : Mar. 19, 2014

Report No.: FR422801C

Report Version : Rev. 01



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR422801C	Rev. 01	Initial issue of report	Mar. 19, 2014



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	- ≤ 20dBc	Pass	-
3.4		Conducted Spurious Emission	-	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.99 dB at 2389.650 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 7.08 dB at 1.480 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 4 of 53
Report Issued Date : Mar. 19, 2014

Report No.: FR422801C

Report Version : Rev. 01



1 General Description

1.1 Applicant

CT Asia

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

Report No.: FR422801C

1.2 Manufacturer

Ragentek Technology Group

Building D10-D11, No. 58-60, Lane 3188, Xiupu Road, PuDong District, Shanghai, PRC

1.3 Feature of Equipment Under Test

Product Feature					
Equipment	Mobile phone				
Brand Name	BLU				
Model Name	Studio 6.0 HD				
FCC ID	YHLBLUST60HD				
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/HSPA+(Downlink Only)				
EOT Supports Radios application	WLAN 11b/g/n HT20/Bluetooth v3.0 + EDR/Bluetooth v4.0 LE				
HW Version	Q106_MAIN_PCB_V1.1				
SW Version	J805_BLU_A1A_V3.2.6_S0218				
EUT Stage	Identical Prototype				

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

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard						
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz					
Maximum (Peak) Output Power to	802.11b : 17.38 dBm (0.0547 W)					
Antenna	802.11g : 22.05 dBm (0.1603 W)					
Antenna	802.11n HT20 : 21.37 dBm (0.1371 W)					
Antenna Type	PIFA Antenna with gain -3.00 dBi					
Type of Modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)					
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)					

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 5 of 53TEL: 86-755- 3320-2398Report Issued Date: Mar. 19, 2014FCC ID: YHLBLUST60HDReport Version: Rev. 01

1.5 Modification of EUT

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

1.6 Testing Site

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

Note: The test site complies with ANSI C63.4 2003 requirement.

1.7 Applied Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01
- ANSI C63.4-2003

Remark:

- 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. TEL: 86-755-3320-2398

FCC ID: YHLBLUST60HD

Report Issued Date : Mar. 19, 2014 Report Version : Rev. 01

Page Number

: 6 of 53



2 Test Configuration of Equipment Under Test

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

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

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

2.1 Carrier Frequency Channel

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 7 of 53
Report Issued Date : Mar. 19, 2014

Report No.: FR422801C

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.

	Frequency	2.4GHz 802.11b RF Power (dBm)						
Channel		DSSS Data Rate						
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps			
CH 01	2412 MHz	16.52	16.58	16.45	16.35			
CH 06	2437 MHz	16.92	16.91	16.84	16.68			
CH 11	2462 MHz	<mark>17.38</mark>	17.36	17.31	17.33			

	Frequency	2.4GHz 802.11g RF Power (dBm)								
Channel		OFDM Data Rate								
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps	
CH 01	2412 MHz	21.42	21.37	21.34	21.36	21.31	21.25	21.28	21.31	
CH 06	2437 MHz	21.59	21.53	21.56	21.52	21.48	21.46	21.49	21.42	
CH 11	2462 MHz	<mark>22.05</mark>	22.02	21.97	21.92	21.86	21.92	21.86	21.86	

	Frequency	2.4GHz 802.11n HT20 RF Power (dBm)									
Channel			OFDM Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7		
CH 01	2412 MHz	20.65	20.52	20.35	20.29	20.27	20.32	20.27	20.17		
CH 06	2437 MHz	20.91	20.65	20.42	20.28	20.21	20.28	20.24	20.07		
CH 11	2462 MHz	<mark>21.37</mark>	21.15	20.92	20.76	20.72	20.83	20.75	20.57		

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 8 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



2.3 Test Mode

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

	Test Cases								
	Test Items	Mode	Data Rate	Test Channel					
	6dB BW	802.11b	1 Mbps	1/6/11					
	Power Spectral	802.11g	6 Mbps	1/6/11					
	Density	802.11n HT20	MCS0	1/6/11					
		802.11b	1 Mbps	1/6/11					
Conducted	Output Power	802.11g	6 Mbps	1/6/11					
Conducted TCs		802.11n HT20	MCS0	1/6/11					
105	On description	802.11b	1 Mbps	1/11					
	Conducted Band	802.11g	802.11g 6 Mbps						
	Edge	802.11n HT20	MCS0	1/11					
	Conducted	802.11b	1 Mbps	1/6/11					
		802.11g	6 Mbps	1/6/11					
	Spurious Emission	802.11n HT20	MCS0	1/6/11					
	Dadiete d Dand	802.11b	1 Mbps	1/11					
	Radiated Band	802.11g	6 Mbps	1/11					
Radiated	Edge	802.11n HT20	MCS0	1/11					
TCs	Dedicted Counicies	802.11b	1 Mbps	1/6/11					
	Radiated Spurious Emission	802.11g	6 Mbps	1/6/11					
	Emission	802.11n HT20	MCS0	1/6/11					
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone								
Remark: For rac	Remark: For radiated test cases, the tests were performed with adapter, earphone and USB cable.								

SPORTON INTERNATIONAL (SHENZHEN) INC. TEL: 86-755-3320-2398

FCC ID: YHLBLUST60HD

Page Number : 9 of 53

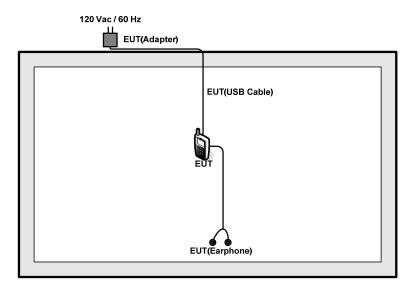
Report Issued Date : Mar. 19, 2014

Report Version : Rev. 01

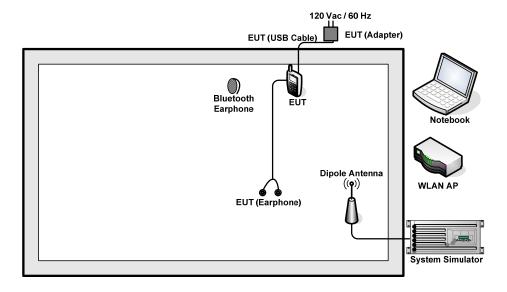


2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 10 of 53
Report Issued Date : Mar. 19, 2014
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	CMW 500	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-815	KA2DIR815A1	N/A	Unshielded, 1.8 m
	Notebook					AC I/P:
3.		DELL	Vostro 2420	FCC DoC	N/A	Unshielded, 1.2 m
3.					IN/A	DC O/P:
						Shielded, 1.8 m
4.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m
5.	Bluetooth	Nokia	BH-108	PYAHS-107W	N/A	N/A
υ.	Earphone	INUKIA	рп-100	F 1 AH3-107 W	IV/A	IV/A

Report No.: FR422801C

2.6 EUT Operation Test Setup

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

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

2.7 Measurement Results Explanation Example

For all conducted test items:

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

Page Number

Report Version

: 11 of 53

: Rev. 01

Report Issued Date: Mar. 19, 2014

Example:

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

Offset = RF cable loss + attenuator factor.

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

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



3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

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

3.1.2 Measuring Instruments

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 v03r01.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. Measure and record the results in the test report.

3.1.4 Test Setup

FCC ID: YHLBLUST60HD



SPORTON INTERNATIONAL (SHENZHEN) INC.
TEL: 86-755- 3320-2398

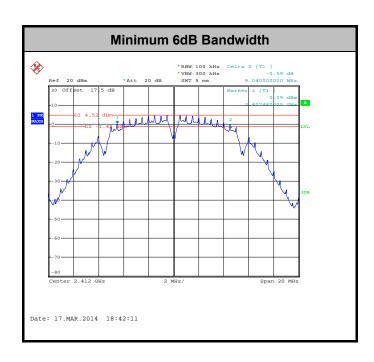
Page Number : 12 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



3.1.5 Test Result of 6dB Bandwidth

Test Band :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	9.04	0.5	Pass
11b	1Mbps	1	6	2437	9.08	0.5	Pass
11b	1Mbps	1	11	2462	9.08	0.5	Pass
11g	6Mbps	1	1	2412	15.48	0.5	Pass
11g	6Mbps	1	6	2437	15.44	0.5	Pass
11g	6Mbps	1	11	2462	15.64	0.5	Pass
HT20	MCS0	1	1	2412	17.58	0.5	Pass
HT20	MCS0	1	6	2437	17.60	0.5	Pass
HT20	MCS0	1	11	2462	17.58	0.5	Pass



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

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 13 of 53
Report Issued Date : Mar. 19, 2014
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 v03r01.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



TEL: 86-755-3320-2398 FCC ID: YHLBLUST60HD Page Number : 14 of 53
Report Issued Date : Mar. 19, 2014

Report No.: FR422801C

Report Version : Rev. 01



3.2.5 Test Result of Peak Output Power

Test Mode :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	RF Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	16.52	30	-3.00	Pass
11b	1Mbps	1	6	2437	16.92	30	-3.00	Pass
11b	1Mbps	1	11	2462	17.38	30	-3.00	Pass
11g	6Mbps	1	1	2412	21.42	30	-3.00	Pass
11g	6Mbps	1	6	2437	21.59	30	-3.00	Pass
11g	6Mbps	1	11	2462	22.05	30	-3.00	Pass
HT20	MCS0	1	1	2412	20.65	30	-3.00	Pass
HT20	MCS0	1	6	2437	20.91	30	-3.00	Pass
HT20	MCS0	1	11	2462	21.37	30	-3.00	Pass

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

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 15 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	2.4GHz	Temperature :	24~26℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Output Power (dBm)	Power Limit (dBm)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	0.08	13.51	30	-3.00	Pass
11b	1Mbps	1	6	2437	0.08	13.74	30	-3.00	Pass
11b	1Mbps	1	11	2462	0.08	14.37	30	-3.00	Pass
11g	6Mbps	1	1	2412	0.52	11.77	30	-3.00	Pass
11g	6Mbps	1	6	2437	0.52	11.93	30	-3.00	Pass
11g	6Mbps	1	11	2462	0.52	12.50	30	-3.00	Pass
HT20	MCS0	1	1	2412	0.56	9.74	30	-3.00	Pass
HT20	MCS0	1	6	2437	0.56	9.95	30	-3.00	Pass
HT20	MCS0	1	11	2462	0.56	10.55	30	-3.00	Pass

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL : 86-755- 3320-2398 FCC ID : YHLBLUST60HD Page Number : 16 of 53
Report Issued Date : Mar. 19, 2014
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.

Report No.: FR422801C

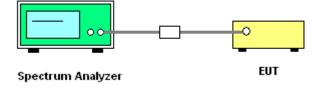
3.3.2 Measuring Instruments

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 v03r01
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- Measure and record the results in the test report.

3.3.4 Test Setup



SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 17 of 53TEL: 86-755- 3320-2398Report Issued Date: Mar. 19, 2014FCC ID: YHLBLUST60HDReport Version: Rev. 01

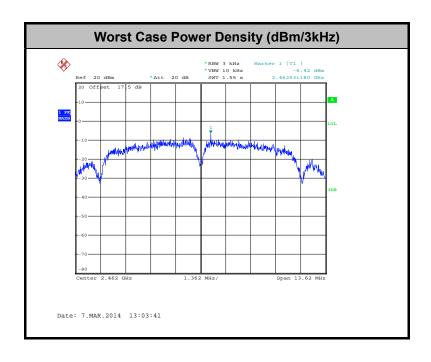


3.3.5 Test Result of Power Spectral Density

Test Mode :	2.4GHz	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Mod.	Data Rate	N _{TX}	Channel	Freq. (MHz)	Peak Power Density (dBm/3kHz)	Max. Limits (dBm/3kHz)	DG (dBi)	Pass/Fail
11b	1Mbps	1	1	2412	-10.13	8	-3.00	Pass
11b	1Mbps	1	6	2437	-8.78	8	-3.00	Pass
11b	1Mbps	1	11	2462	-6.42	8	-3.00	Pass
11g	6Mbps	1	1	2412	-12.58	8	-3.00	Pass
11g	6Mbps	1	6	2437	-12.65	8	-3.00	Pass
11g	6Mbps	1	11	2462	-11.96	8	-3.00	Pass
HT20	MCS0	1	1	2412	-15.91	8	-3.00	Pass
HT20	MCS0	1	6	2437	-15.05	8	-3.00	Pass
HT20	MCS0	1	11	2462	-13.44	8	-3.00	Pass

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



TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 18 of 53
Report Issued Date : Mar. 19, 2014
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).

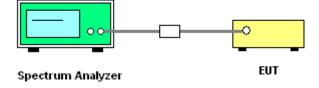
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 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: 86-755-3320-2398

FCC ID: YHLBLUST60HD

Page Number : 19 of 53
Report Issued Date : Mar. 19, 2014

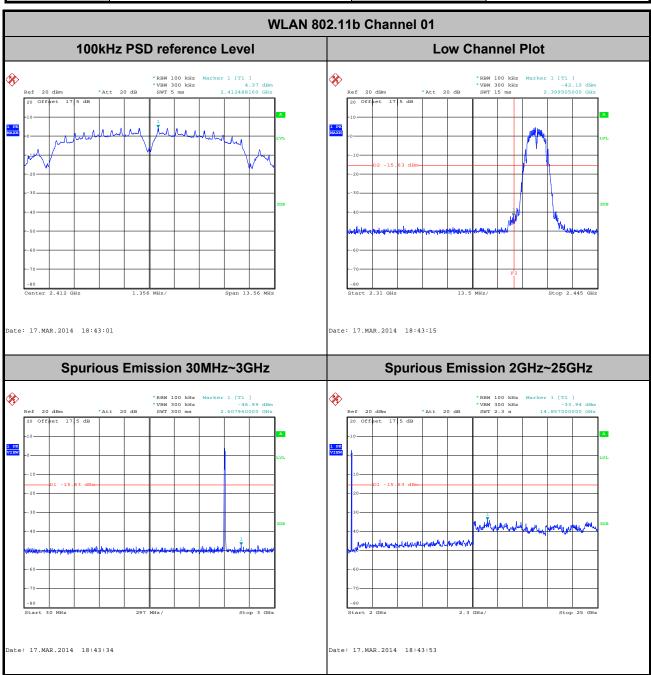
Report No.: FR422801C

Report Version : Rev. 01



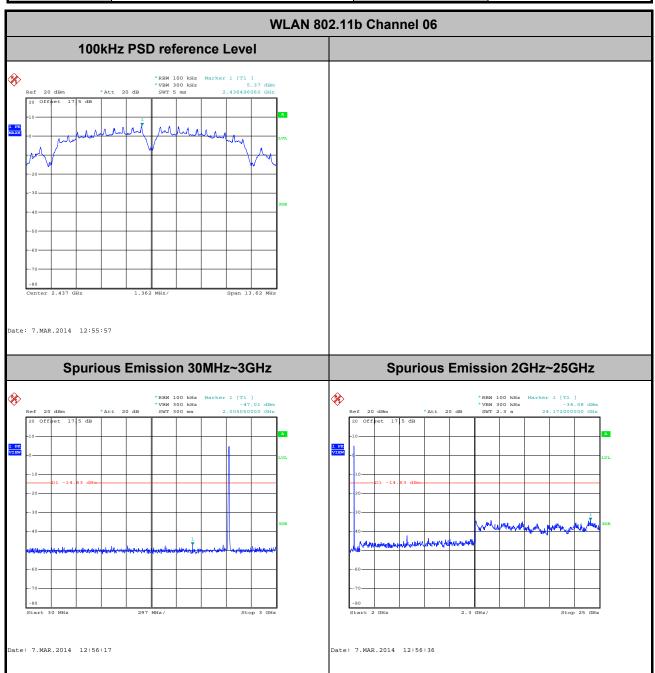
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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



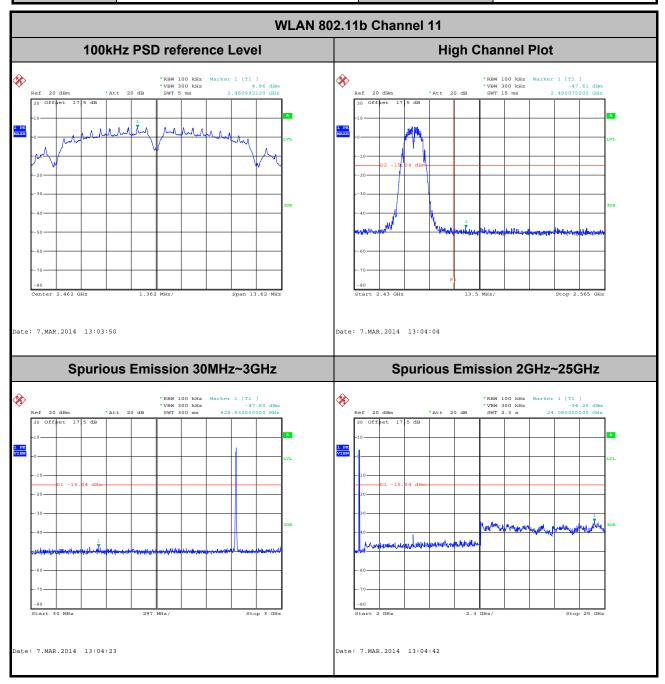
TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 20 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

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

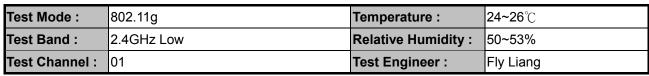


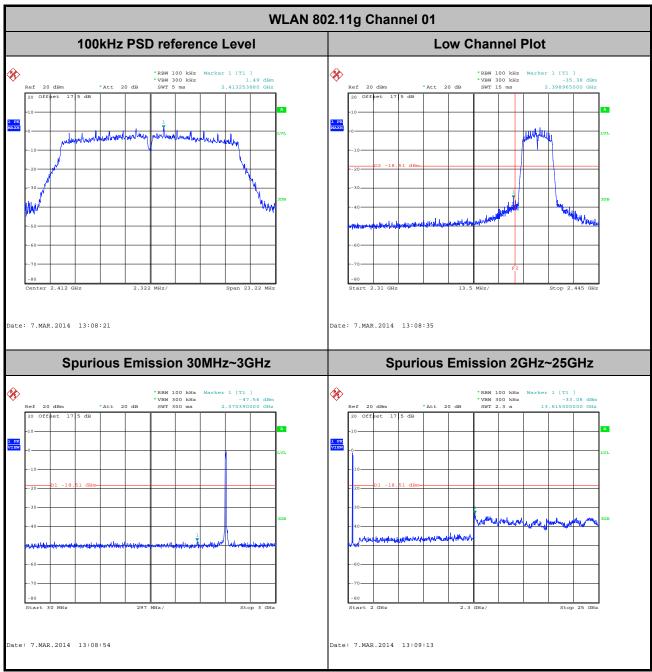
TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 21 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

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



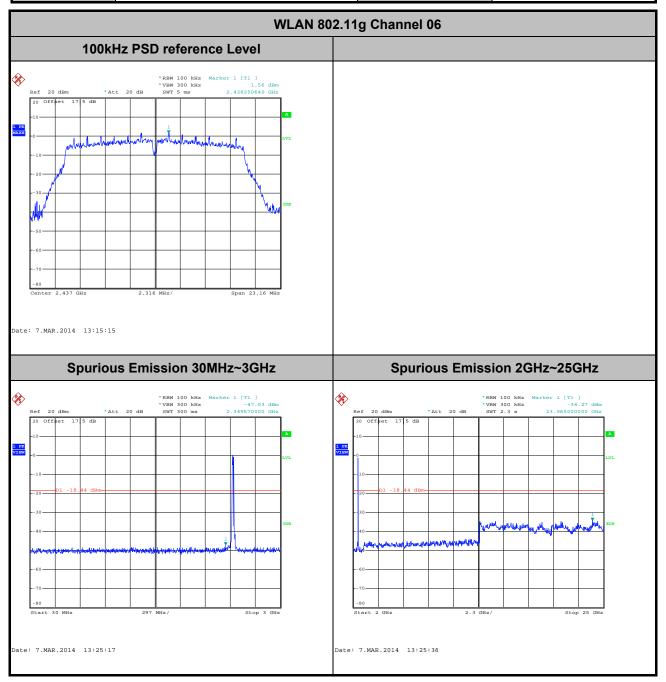
Page Number : 22 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



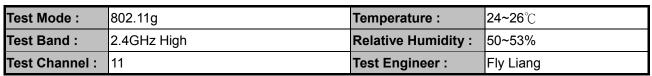


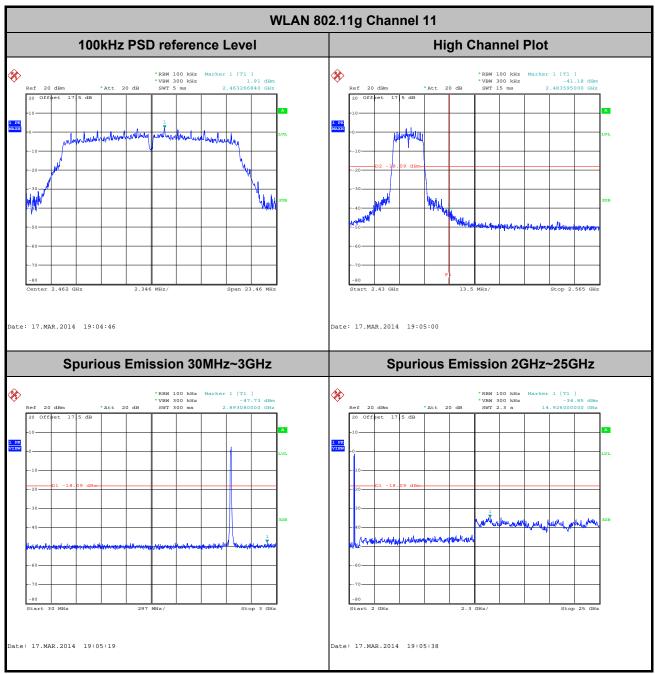
Page Number : 23 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

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

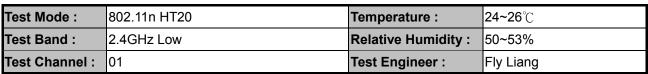


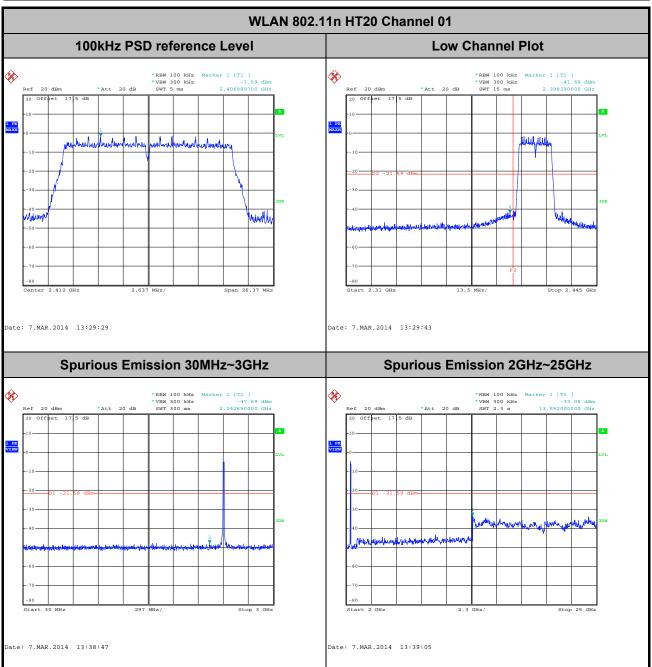
Page Number : 24 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01





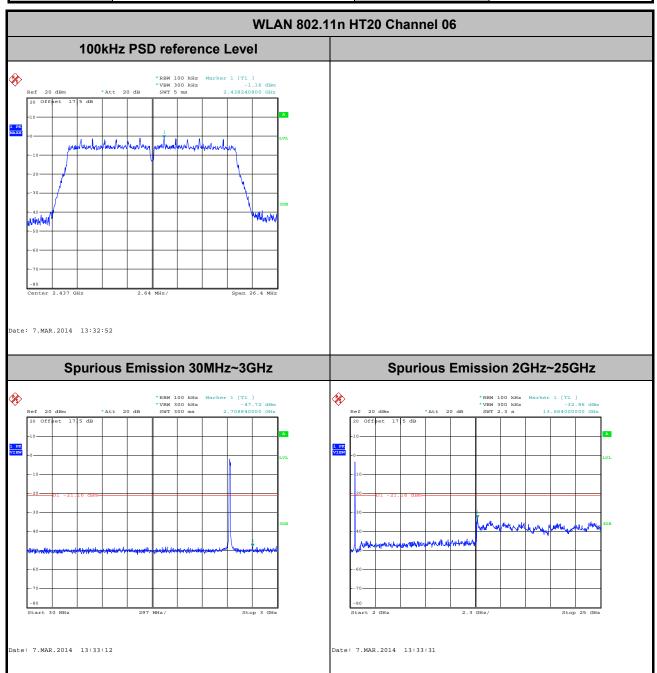
Page Number : 25 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



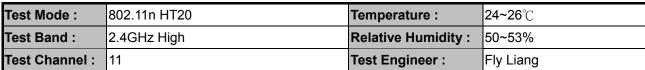


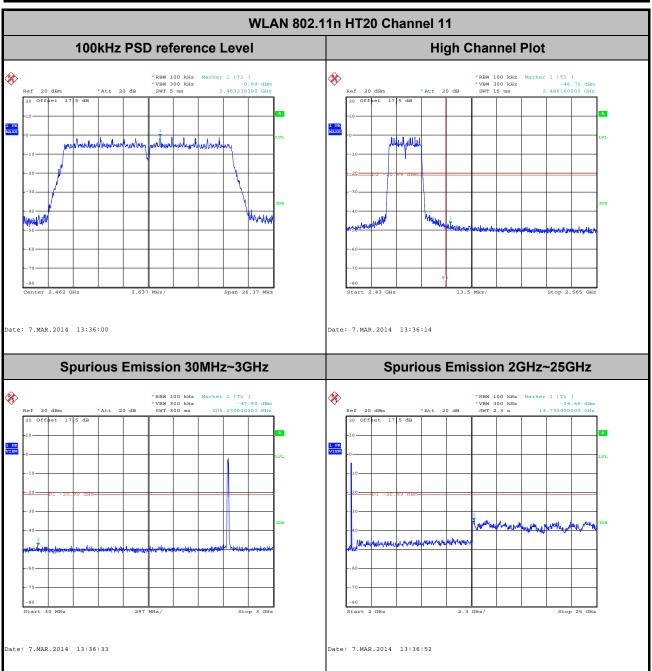
Page Number : 26 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

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



Page Number : 27 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01





Page Number : 28 of 53
Report Issued Date : Mar. 19, 2014
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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-3320-2398 FCC ID: YHLBLUST60HD Page Number : 29 of 53
Report Issued Date : Mar. 19, 2014

Report No.: FR422801C

Report Version : Rev. 01

3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

Report No.: FR422801C

- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(μs)	1/T(kHz)	VBW Setting	
802.11b	98.13	-	-	10Hz	
802.11g	88.71	1.40	0.72	1kHz	
2.4GHz 802.11n HT20	87.85	1.30	0.77	1kHz	

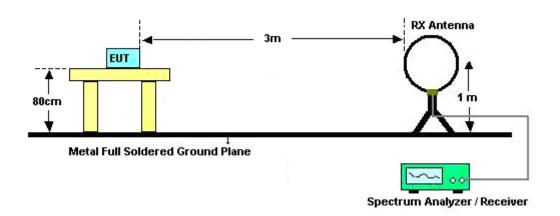
SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 30 of 53TEL: 86-755- 3320-2398Report Issued Date: Mar. 19, 2014FCC ID: YHLBLUST60HDReport Version: Rev. 01



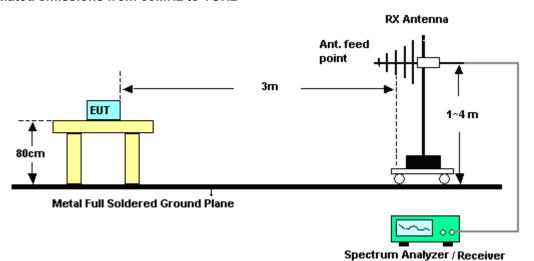
Report No.: FR422801C

3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



SPORTON INTERNATIONAL (SHENZHEN) INC.

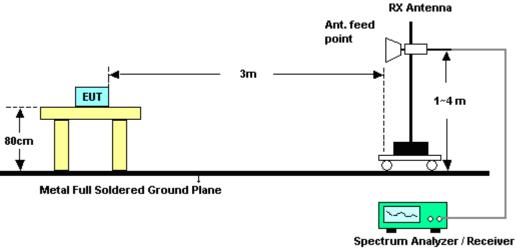
TEL: 86-755-3320-2398 FCC ID: YHLBLUST60HD Page Number : 31 of 53 Report Issued Date: Mar. 19, 2014

: Rev. 01

Report Version



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.

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 32 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



3.5.6 Test Result of Radiated Spurious at Band Edges

Test Mode :	802.11b	Temperature :	24~25°C
Test Band :	Low	Relative Humidity :	48~49%
Test Channel :	01	Test Engineer :	Leo Liao

Report No.: FR422801C

	ANTENNA POLARITY : HORIZONTAL												
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark			
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2380.29	52.37	-21.63	74	45.47	31.90	5.59	30.59	103	230	Peak			
2386.68	40.31	-13.69	54	33.33	31.98	5.59	30.59	103	230	Average			

	ANTENNA POLARITY: VERTICAL												
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark			
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2356.98	50.53	-23.47	74	43.78	31.81	5.56	30.62	100	343	Peak			
2370.93	38.71	-15.29	54	31.81	31.90	5.59	30.59	100	343	Average			

Test Mode :	802.11b	Temperature :	24~25°C
Test Band :	High	Relative Humidity :	48~49%
Test Channel :	11	Test Engineer :	Leo Liao

	ANTENNA POLARITY : HORIZONTAL												
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark			
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2499.37	50.12	-23.88	74	42.32	32.50	5.74	30.44	109	287	Peak			
2498.26	37.63	-16.37	54	29.83	32.50	5.74	30.44	109	287	Average			

	ANTENNA POLARITY : VERTICAL												
Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark			
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2499.07	49.98	-24.02	74	42.18	32.50	5.74	30.44	153	300	Peak			
2486.98	38.37	-15.63	54	30.72	32.41	5.71	30.47	153	300	Average			

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 33 of 53TEL: 86-755- 3320-2398Report Issued Date: Mar. 19, 2014FCC ID: YHLBLUST60HDReport Version: Rev. 01



Test Mode :	802.11g	Temperature :	24~25°C
Test Band :	Low	Relative Humidity :	48~49%
Test Channel :	01	Test Engineer :	Leo Liao

Report No.: FR422801C

	ANTENNA POLARITY : HORIZONTAL												
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark			
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2389.74	61.85	-12.15	74	54.87	31.98	5.59	30.59	102	230	Peak			

	ANTENNA POLARITY: VERTICAL												
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark			
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2387.04	56.06	-17.94	74	49.08	31.98	5.59	30.59	100	342	Peak			
2389.92	42.98	-11.02	54	35.94	31.98	5.62	30.56	100	342	Average			

Test Mode :	802.11g	Temperature :	24~25°C
Test Band :	High	Relative Humidity :	48~49%
Test Channel :	11	Test Engineer :	Leo Liao

	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.62	65.77	-8.23	74	58.12	32.41	5.71	30.47	100	224	Peak
2484.04	45.06	-8.94	54	37.41	32.41	5.71	30.47	100	224	Average

	ANTENNA POLARITY : VERTICAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.77	61.84	-12.16	74	54.19	32.41	5.71	30.47	152	299	Peak
2483.50	43.28	-10.72	54	35.63	32.41	5.71	30.47	152	299	Average

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 34 of 53TEL: 86-755- 3320-2398Report Issued Date: Mar. 19, 2014FCC ID: YHLBLUST60HDReport Version: Rev. 01



Test Mode :	802.11n HT20	Temperature :	24~25°C
Test Band :	Low	Relative Humidity :	48~49%
Test Channel :	01	Test Engineer :	Leo Liao

Report No.: FR422801C

	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2388.57	67.61	-6.39	74	60.63	31.98	5.59	30.59	105	227	Peak
	ĺ		1					1		

	ANTENNA POLARITY: VERTICAL										
l	requency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
	2388.75	64.33	-9.67	74	57.35	31.98	5.59	30.59	190	240	Peak
	2389.74	46.53	-7.47	54	39.55	31.98	5.59	30.59	190	240	Average

Test Mode :	802.11n HT20	Temperature :	24~25°C
Test Band :	High	Relative Humidity :	48~49%
Test Channel :	11	Test Engineer :	Leo Liao

	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2485.42	61.7	-12.30	74	54.05	32.41	5.71	30.47	103	305	Peak
2483.62	41.88	-12.12	54	34.23	32.41	5.71	30.47	103	305	Average

	ANTENNA POLARITY : VERTICAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2485.09	57.48	-16.52	74	49.83	32.41	5.71	30.47	133	283	Peak
2483.65	40.29	-13.71	54	32.64	32.41	5.71	30.47	133	283	Average

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 35 of 53TEL: 86-755- 3320-2398Report Issued Date: Mar. 19, 2014FCC ID: YHLBLUST60HDReport Version: Rev. 01



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

Note: Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

Test Mode :	802.	.11b	Temperature :	24~25°C
Test Channel :	01		Relative Humidity :	48~49%
Test Engineer :	Leo	Liao	Polarization :	Horizontal
	1.	2412 MHz is fundamer	ntal signal which can b	e ignored.
Remark :	2.	Average measurement	t was not performed if	peak level went lower than the
		average limit.		

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	101.21	-	-	94.08	32.07	5.62	30.56	103	230	Peak
2412	99.03	-	-	91.9	32.07	5.62	30.56	103	230	Average
4824	39.15	-34.85	74	54.23	33.82	8.36	57.26	110	115	Peak

Test Mode :	802.11b	Temperature :	24~25°C
Test Channel :	01	Relative Humidity :	48~49%
Test Engineer :	Leo Liao	Polarization :	Vertical
	1. 2412 MHz is fundamenta	al signal which can be	ignored.
Remark :	2. Average measurement	was not performed if	peak level went lower than the
	average limit.		

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	96.54	-	-	89.41	32.07	5.62	30.56	100	343	Peak
2412	94.22	-	-	87.09	32.07	5.62	30.56	100	343	Average
4824	40.27	-33.73	74	55.35	33.82	8.36	57.26	152	360	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 36 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

Test Mode :	802.11b	Temperature :	24~25°C					
Test Channel :	06	Relative Humidity :	48~49%					
Test Engineer :	Leo Liao	Polarization :	Horizontal					
	1. 2437 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	100.39	-	-	93.03	32.24	5.65	30.53	101	224	Peak
2437	98.15	-	-	90.79	32.24	5.65	30.53	101	224	Average
4874	38.18	-35.82	74	53.01	33.93	8.41	57.17	148	53	Peak
7311	39.12	-34.88	74	52.4	33.89	9.99	57.16	154	136	Peak

Test Mode :	802.11b	Temperature :	24~25°C				
Test Channel :	06	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Vertical				
	1. 2437 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	($dB\mu V/m$)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	95.49	-	-	88.13	32.24	5.65	30.53	122	334	Peak
2437	93.31	-	-	85.95	32.24	5.65	30.53	122	334	Average
4874	39.04	-34.96	74	53.87	33.93	8.41	57.17	195	245	Peak
7311	39.75	-34.25	74	53.03	33.89	9.99	57.16	132	287	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 37 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

Test Mode :	802.11b	Temperature :	24~25°C					
Test Channel :	11	Relative Humidity :	48~49%					
Test Engineer :	Leo Liao	Polarization :	Horizontal					
	. 2462 MHz is fundamental signal which can be ignored.							

Remark:

2. Average measurement was not performed if peak level went lower than the average limit.

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	98.92	-	-	91.41	32.33	5.68	30.5	109	287	Peak
2462	96.63	-	-	89.12	32.33	5.68	30.5	109	287	Average
4924	39.06	-34.94	74	53.63	34.05	8.46	57.08	178	139	Peak
7386	39.45	-34.55	74	52.54	33.94	10.02	57.05	150	220	Peak

Test Mode :	802.11b	Temperature :	24~25°C				
Test Channel :	11	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Vertical				
	1. 2462 MHz is fundamen	tal signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	96.33	-	-	88.82	32.33	5.68	30.5	153	300	Peak
2462	94.09	-	-	86.58	32.33	5.68	30.5	153	300	Average
4924	39.32	-34.68	74	53.89	34.05	8.46	57.08	165	236	Peak
7386	38.01	-35.99	74	51.1	33.94	10.02	57.05	132	235	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 38 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

Test Mode :	802.11g	Temperature :	24~25°C				
Test Channel :	01	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Horizontal				
	1. 2412 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement	was not performed if	peak level went lower than the				
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	102.85	-	-	95.72	32.07	5.62	30.56	102	230	Peak
2412	94.36	-	-	87.23	32.07	5.62	30.56	102	230	Average
4824	38.89	-35.11	74	53.97	33.82	8.36	57.26	110	115	Peak

Test Mode :	802.11g	Temperature :	24~25°C					
Test Channel :	01	Relative Humidity :	48~49%					
Test Engineer :	Leo Liao	Polarization :	Vertical					
	1. 2412 MHz is fundament	2412 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement	was not performed if	peak level went lower than the					
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2412	98.05	-	-	90.92	32.07	5.62	30.56	100	342	Peak
2412	89.25	-	-	82.12	32.07	5.62	30.56	100	342	Average
4824	40.63	-33.37	74	55.71	33.82	8.36	57.26	148	259	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 39 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

Test Mode :	802.11g	Temperature :	24~25°C						
Test Channel :	06	Relative Humidity :	48~49%						
Test Engineer :	Leo Liao	Polarization :	Horizontal						
	1. 2437 MHz is fundament	2437 MHz is fundamental signal which can be ignored.							
Remark :	2. Average measurement was not performed if peak level went lower than the								
	average limit.	average limit.							

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	102.53	-	-	95.17	32.24	5.65	30.53	100	227	Peak
2437	94.29	-	-	86.93	32.24	5.65	30.53	100	227	Average
4874	39.83	-34.17	74	54.66	33.93	8.41	57.17	195	245	Peak
7311	39.15	-34.85	74	52.43	33.89	9.99	57.16	132	287	Peak

Test Mode :	802.11g	Temperature :	24~25°C					
Test Channel :	06	Relative Humidity :	48~49%					
Test Engineer :	Leo Liao	Polarization :	Vertical					
	1. 2437 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	99.31	-	-	91.95	32.24	5.65	30.53	121	299	Peak
2437	91.15	-	-	83.79	32.24	5.65	30.53	121	299	Average
4874	39.27	-34.73	74	54.1	33.93	8.41	57.17	146	236	Peak
7311	39.98	-34.02	74	53.26	33.89	9.99	57.16	148	325	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 40 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

Test Mode :	802.11g	Temperature :	24~25°C					
Test Channel :	11	Relative Humidity :	48~49%					
Test Engineer :	Leo Liao	Polarization :	Horizontal					
	1. 2462 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	102.02	-	-	94.51	32.33	5.68	30.5	100	224	Peak
2462	92.97	-	-	85.46	32.33	5.68	30.5	100	224	Average
4924	37.89	-36.11	74	52.46	34.05	8.46	57.08	148	258	Peak
7386	38.38	-35.62	74	51.47	33.94	10.02	57.05	132	236	Peak

Test Mode :	802.11g	Temperature :	24~25°C					
Test Channel :	11	Relative Humidity :	48~49%					
Test Engineer :	Leo Liao	Polarization :	Vertical					
	1. 2462 MHz is fundament	tal signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	98.78	-	-	91.27	32.33	5.68	30.5	152	299	Peak
2462	90.63	-	-	83.12	32.33	5.68	30.5	152	299	Average
4924	38.32	-35.68	74	52.89	34.05	8.46	57.08	178	139	Peak
7386	37.84	-36.16	74	50.93	33.94	10.02	57.05	150	220	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 41 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



Test Mode :	2.4GHz 802.11n HT20	Temperature :	24~25°C					
Test Channel :	01	Relative Humidity :	48~49%					
Test Engineer :	Leo Liao	Polarization :	Horizontal					
	1. 2412 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	
93.05	15.77	-27.73	43.5	37.22	8.54	1.22	31.21	-	-	Peak
266.68	23.41	-22.59	46	39.96	12.33	1.9	30.78	-	-	Peak
355.92	26.36	-19.64	46	40.18	14.52	2.16	30.5	-	-	Peak
501.42	31.65	-14.35	46	41.85	17.23	2.53	29.96	200	0	Peak
720.64	25.93	-20.07	46	32.48	19.61	2.99	29.15	-	-	Peak
950.53	26.36	-19.64	46	29.93	21.3	3.42	28.29	-	-	Peak
2412	103.66	-	-	96.53	32.07	5.62	30.56	105	227	Peak
2412	94.89	-	-	87.76	32.07	5.62	30.56	105	227	Average
4824	37.87	-36.13	74	52.95	33.82	8.36	57.26	132	236	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 42 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



Test Mode :	2.4GHz 802.11n HT20	Temperature :	24~25°C					
Test Channel :	01	Relative Humidity :	48~49%					
Test Engineer :	Leo Liao	Polarization :	Vertical					
	1. 2412 MHz is fundament	al signal which can be	ignored.					
Remark :	2. Average measurement was not performed if peak level went lower than the							
	average limit.							

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
34.85	29.01	-10.99	40	45.64	13.9	0.81	31.34	100	0	Peak
238.55	15.63	-30.37	46	32.59	12.07	1.82	30.85	-	-	Peak
356.89	19.95	-26.05	46	33.74	14.54	2.16	30.49	-	-	Peak
565.44	24.52	-21.48	46	33.03	18.53	2.69	29.73	-	-	Peak
762.35	25.13	-20.87	46	31.05	19.99	3.08	28.99	-	-	Peak
838.98	26.45	-19.55	46	31.43	20.5	3.23	28.71	-	-	Peak
2412	99.97	-	-	92.84	32.07	5.62	30.56	190	240	Peak
2412	91.57	-	-	84.44	32.07	5.62	30.56	190	240	Average
4824	38.99	-35.01	74	54.07	33.82	8.36	57.26	123	158	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 43 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

Test Mode :	2.4GHz 802.11n HT20	Temperature :	24~25°C				
Test Channel :	06	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Horizontal				
	1. 2437 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2437	100.94	-	-	93.58	32.24	5.65	30.53	104	305	Peak
2437	92.15	-	-	84.79	32.24	5.65	30.53	104	305	Average
4874	38.87	-35.13	74	53.7	33.93	8.41	57.17	195	245	Peak
7311	38.73	-35.27	74	52.01	33.89	9.99	57.16	132	287	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	24~25°C				
Test Channel :	06	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Vertical				
	1. 2437 MHz is fundament	tal signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Fr	equency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
((MHz)	$(dB\mu V/m)$	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
	2437	98.72	-	-	91.36	32.24	5.65	30.53	133	276	Peak
	2437	89.62	-	-	82.26	32.24	5.65	30.53	133	276	Average
	4874	38.35	-35.65	74	53.18	33.93	8.41	57.17	195	245	Peak
	7311	39.1	-34.90	74	52.38	33.89	9.99	57.16	132	287	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 44 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01

Test Mode :	2.4GHz 802.11n HT20	Temperature :	24~25°C				
Test Channel :	11	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Horizontal				
	1. 2462 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	101.56	-	-	94.05	32.33	5.68	30.5	103	305	Peak
2462	92.28	-	-	84.77	32.33	5.68	30.5	103	305	Average
4924	38.34	-35.66	74	52.91	34.05	8.46	57.08	178	139	Peak
7386	38.2	-35.80	74	51.29	33.94	10.02	57.05	150	220	Peak

Test Mode :	2.4GHz 802.11n HT20	Temperature :	24~25°C				
Test Channel :	11	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Vertical				
	1. 2462 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement was not performed if peak level went lower than the						
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2462	98.41	-	-	90.9	32.33	5.68	30.5	133	283	Peak
2462	89.23	-	-	81.72	32.33	5.68	30.5	133	283	Average
4924	38.65	-35.35	74	53.22	34.05	8.46	57.08	148	230	Peak
7386	39.29	-34.71	74	52.38	33.94	10.02	57.05	132	258	Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 45 of 53
Report Issued Date : Mar. 19, 2014
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 with Maximum Hold Mode.

FCC ID: YHLBLUST60HD

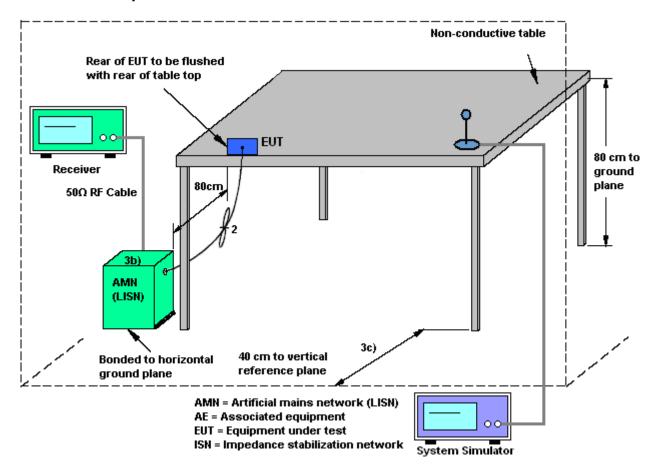
Page Number : 46 of 53
Report Issued Date : Mar. 19, 2014

Report No.: FR422801C



Report No.: FR422801C

3.6.4 Test Setup

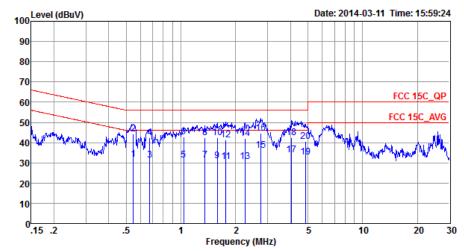


TEL: 86-755-3320-2398 FCC ID: YHLBLUST60HD Page Number : 47 of 53 Report Issued Date: Mar. 19, 2014 : Rev. 01 Report Version



3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22 ℃				
Test Engineer :	Jack Tian	Relative Humidity :	41~42%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
F 4' T	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter)						
Function Type :	+ Earphone						



Site : CO01-SZ

Condition: FCC 15C_QP LISN_L_20130328 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu₹	dBu₹	dB	dB	
1	0.55	31.60	-14.40	46.00	21.30	0.15	10.15	Average
2	0.55	44.30	-11.70	56.00	34.00	0.15	10.15	QP
3	0.67	31.51	-14.49	46.00	21.20	0.16	10.15	Average
4	0.67	42.51	-13.49	56.00	32.20	0.16	10.15	QP
5	1.04	31.45	-14.55	46.00	21.10	0.20	10.15	Average
6	1.04	42.65	-13.35	56.00	32.30	0.20	10.15	QP
7	1.36	31.48	-14.52	46.00	21.10	0.21	10.17	Average
8	1.36	42.48	-13.52	56.00	32.10	0.21		
9	1.59	31.10	-14.90	46.00	20.70	0.22	10.18	Average
10	1.59	42.50	-13.50	56.00	32.10	0.22	10.18	QP
11	1.77	30.61	-15.39	46.00	20.21	0.22	10.18	Average
12	1.77	41.51	-14.49	56.00	31.11	0.22	10.18	QP
13	2.25	30.54	-15.46	46.00	20.10	0.24	10.20	Average
14	2.25	42.04	-13.96	56.00	31.60	0.24	10.20	QP
15 *	2.75	36.16	-9.84	46.00	25.69	0.26	10.21	Average
16	2.75	44.66	-11.34	56.00	34.19	0.26	10.21	
17	4.07	33.92	-12.08	46.00	23.40	0.29	10.23	Average
18	4.07	42.42	-13.58	56.00	31.90	0.29		_
19	4.87	32.85	-13.15	46.00	22.30	0.31	10.24	Average
20	4.87	40.55	-15.45	56.00	30.00	0.31	10.24	QP

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 48 of 53
Report Issued Date : Mar. 19, 2014

Report No.: FR422801C

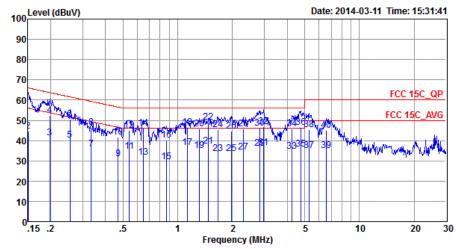


Test Mode : Mode 1 Temperature : 21~22℃

Test Engineer : Jack Tian Relative Humidity : 41~42%

Test Voltage : 120Vac / 60Hz Phase : Neutral

Function Type : GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone



Site : CO01-SZ

Condition: FCC 15C_QP LISN_N_20130328 NEUTRAL

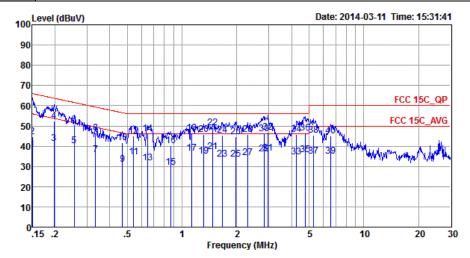
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∇	dBu∀	dB	dB	
1	0.15	38 30	-17.80	56.00	27.80	0.04	10 36	Average
2			-21.20		34.40			_
3			-12.41		31.00			Average
4	0.20		-11.41	63.71				_
					42.00			
5			-11.42		29.90			Average
6	0.25	50.48	-11.12	61.60	40.20	0.04	10.24	QP
7	0.33	35.77	-13.58	49.35	25.58	0.00	10.19	Average
8	0.33	46.39	-12.96	59.35	36.20	0.00		
9	0.47	31.00	-15.49	46.49	20.80	0.04	10.16	Average
10	0.47	41.70	-14.79	56.49	31.50	0.04	10.16	QP
11	0.54	34.79	-11.21	46.00	24.60	0.04	10.15	Average
12	0.54	45.09	-10.91	56.00	34.90	0.04	10.15	QP
13	0.64	31.79	-14.21	46.00	21.60	0.04	10.15	Average
14	0.64	45.99	-10.01	56.00	35.80	0.04	10.15	QP
15	0.87	29.65	-16.35	46.00	19.50	0.00	10.15	Average
16	0.87	40.35	-15.65	56.00	30.20	0.00	10.15	QP
17	1.13	36.50	-9.50	46.00	26.30	0.04	10.16	Average
18	1.13	46.60	-9.40	56.00	36.40	0.04	10.16	QP
19	1.31	35.11	-10.89	46.00	24.89	0.05	10.17	Average
20	1.31	45.61	-10.39	56.00	35.39	0.05	10.17	QP

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 49 of 53
Report Issued Date : Mar. 19, 2014

Report No.: FR422801C



Test Mode :	Mode 1	Temperature :	21~22 ℃				
Test Engineer :	Jack Tian	Relative Humidity :	41~42%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
Eurotion Type	GSM850 Idle + Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter)						
Function Type :	+ Earphone						



Site : C001-SZ Condition: FCC 15C_QP LISN_N_20130328 NEUTRAL

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
21	1.48	37.22	-8.78	46.00	27.00	0.05	10.17	Average
22 *	1.48	48.92	-7.08	56.00	38.70	0.05	10.17	QP
23	1.66	33.73	-12.27	46.00	23.50	0.05	10.18	Average
24	1.66	45.33	-10.67	56.00	35.10	0.05	10.18	QP
25	1.97	33.45	-12.55	46.00	23.20	0.06	10.19	Average
26	1.97	44.75	-11.25	56.00	34.50	0.06	10.19	QP
27	2.30	34.36	-11.64	46.00	24.09	0.07	10.20	Average
28	2.30	45.66	-10.34	56.00	35.39	0.07	10.20	QP
29	2.82	36.31	-9.69	46.00	26.10	0.00	10.21	Average
30	2.82	46.01	-9.99	56.00	35.80	0.00	10.21	QP
31	2.98	36.59	-9.41	46.00	26.30	0.08	10.21	Average
32	2.98	46.89	-9.11	56.00	36.60	0.08	10.21	QP
33	4.27	34.83	-11.17	46.00	24.60	0.00	10.23	Average
34	4.27	45.73	-10.27	56.00	35.50	0.00	10.23	QP
35	4.75	35.84	-10.16	46.00	25.49	0.11	10.24	Average
36	4.75	46.44	-9.56	56.00	36.09	0.11	10.24	QP
37	5.28	34.95	-15.05	50.00	24.70	0.00	10.25	Average
38	5.28	45.45	-14.55	60.00	35.20	0.00		
39	6.59	35.03	-14.97	50.00	24.60	0.16	10.27	Average
40	6.59	45.03	-14.97	60.00	34.60	0.16	10.27	QP

TEL: 86-755-3320-2398 FCC ID: YHLBLUST60HD Page Number : 50 of 53 Report Issued Date: Mar. 19, 2014 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.

SPORTON INTERNATIONAL (SHENZHEN) INC. TEL: 86-755-3320-2398

FCC ID: YHLBLUST60HD

Page Number : 51 of 53
Report Issued Date : Mar. 19, 2014

Report No.: FR422801C



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 28, 2013	Mar. 07, 2014~ Mar. 17, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	13dBm~-20dBm	Mar. 28, 2013	Mar. 07, 2014~ Mar. 17, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	0.3GHz~40GHz	Mar. 28, 2013	Mar. 07, 2014~ Mar. 17, 2014	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	Apr. 04, 2013	Mar. 15, 2014	Apr. 03, 2014	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 29, 2013	Mar. 15, 2014	May 28, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 23, 2013	Mar. 15, 2014	Dec. 22, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Mar. 15, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA9170 249	14GHz~40GHz	Nov. 22, 2013	Mar. 15, 2014	Nov. 21, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Mar. 29, 2013	Mar. 15, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 29, 2013	Mar. 15, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Mar. 15, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Mar. 15, 2014	NCR	Radiation (03CH01-SZ)
ESCIO Test Receiver	R&S	ESCI	100724	9kHz~3GHz	Mar. 29, 2013	Mar. 11, 2014	Mar. 28, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Mar. 11, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Mar. 11, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Dec. 17, 2013	Mar. 11, 2014	Dec. 16, 2014	Conduction (CO01-SZ)

TEL: 86-755- 3320-2398 FCC ID: YHLBLUST60HD Page Number : 52 of 53
Report Issued Date : Mar. 19, 2014
Report Version : Rev. 01



5 Uncertainty of Evaluation

<u>Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)</u>

Measuring Uncertainty for a Level of	2.24
Confidence of 95% (U = 2Uc(y))	2.31

Report No.: FR422801C

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

Measuring Uncertainty for a Level of	
Confidence of 95% (U = 2Uc(y))	3.90

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 53 of 53TEL: 86-755- 3320-2398Report Issued Date: Mar. 19, 2014FCC ID: YHLBLUST60HDReport Version: Rev. 01