FCC Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : PURE XR MARKETING NAME : PURE XR

FCC ID : YHLBLUPUREXR

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on May 20, 2016 and testing was completed on Jun. 21, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 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.

Prepared by: Ken Chen / Manager

Von Cher

Approved by: Jones Tsai / Manager

Testing Laboratory 2353

Report No.: FC652004

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SII	MMAE	RY OF TEST RESULT	
		ERAL DESCRIPTION	
	1.1. 1.2. 1.3. 1.4. 1.5. 1.6.	Applicant Manufacturer Product Feature of Equipment Under Test Product Specification of Equipment Under Test Modification of EUT Test Location Applicable Standards	
2.	2.1. 2.2. 2.3. 2.4.	Test Mode Connection Diagram of Test System Support Unit used in test configuration and system EUT Operation Test Setup	
3.	3.1. 3.2.		13
		OF MEASURING EQUIPMENT	
ΑP	PEND	IX A. SETUP PHOTOGRAPHS	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 2 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC652004	Rev. 01	Initial issue of report	Jul. 12, 2016

SPORTON INTERNATIONAL (SHENZHEN) INC.

FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR

TEL: 86-755-8637-9589

Page Number : 3 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	13.36 dB at
					0.210 MHz
					Under limit
2.0	15.109	Dadieted Fosiacion	< 15 100 limita	PASS	3.20 dB at
3.2		15.109 Radiated Emission	< 15.109 limits		165.270 MHz
					for Quasi-Peak

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 4 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

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 XR
Marketing Name	PURE XR
FCC ID	YHLBLUPUREXR
	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/
ELIT cumparts Badias application	DC-HSDPA/LTE/
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/ HT40
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
IMEI Code	Conduction: 354147042140872/354147043140871
INELCODE	Radiation: 354147042140880/354147043140889
HW Version	PURE XR_Mainboard_P4
SW Version	PURE XR_0403_V5254
EUT Stage	Pre-Production

Remark:

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

Report No.: FC652004

 SPORTON INTERNATIONAL (SHENZHEN) INC.
 Page Number
 : 5 of 24

 TEL: 86-755-8637-9589
 Report Issued Date
 : Jul. 12, 2016

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

FAX: 86-755-8637-9595 Report Version: Rev. 01
FCC ID: YHLBLUPUREXR Report Template No.: BU5-FC15B Version 1.3

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification						
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz					
x Frequency Antenna Type	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 7: 2622.5 MHz~ 2687.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) FM: 88 MHz ~ 108 MHz					
Antenna Type	WWAN : IFA Antenna WLAN : Loop Antenna Bluetooth : Loop Antenna GPS/ Glonass : PIFA Antenna					
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA/DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Uplink) DC-HSDPA: 64QAM LTE: QPSK / 16QAM 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps): \pi /4-DQPSK Bluetooth (3Mbps): 8-DPSK GPS/Glonass: BPSK					

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: YHLBLUPUREXR Page Number : 6 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

1.6. Test Location

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

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China					
	TEL: +86-755- 3320-2398					
Took Cita No	Sporton Site No.	FCC Registration No.				
Test Site No.	03CH02-SZ	566869				

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 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR

TEL: 86-755-8637-9589

Page Number : 7 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Test Condition				
Item	EUT Configuration	EMI	EMI	EMI		
		AC	RE<1G	RE≥1G		
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	Note 1		
2.	Data application transferred mode (EUT with notebook)	\boxtimes	\boxtimes	\boxtimes		

Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

• EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

Remark: For signal above 1GHz, the worst case was test item 2.

SPORTON INTERNATIONAL (SHENZHEN) INC.

FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR

TEL: 86-755-8637-9589

Page Number : 8 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

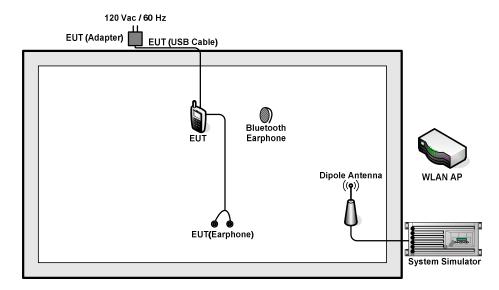
Test Items	EUT Configure Mode	Function Type
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1 + SD Card <fig.1></fig.1>
AC Conducted		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM2 + SD Card <fig.1></fig.1>
Emission		Mode 3: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 + SD Card <fig.1></fig.1>
		Mode 4: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM2 <fig.2></fig.2>
	Hz 1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1 + SD Card <fig.1></fig.1>
Radiated		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM2 + SD Card <fig.1></fig.1>
Emissions < 1GHz		Mode 3: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 + SD Card <fig.1></fig.1>
		Mode 4: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM2 <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM2 <fig.2></fig.2>

Remark:

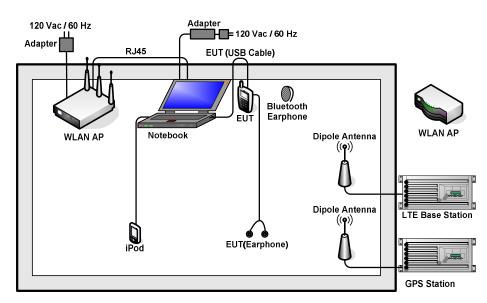
- 1. The worst case of AC is mode 2; and the USB Link mode of AC is mode 4, only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 4; only the test data of this mode was reported.
- Data Link with Notebook means data application transferred mode between EUT and Notebook.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 9 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01
Report Template No.: BU5-FC15B Version 1.3

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 10 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

2.3. 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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
6.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
7.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
9.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A
10.	iPod	Apple	MC525 ZP/A	FCC DoC	Unshielded, 1.0 m	N/A

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 11 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between notebook and EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Turn on FM function.
- 4. Execute "Video player" to play MPEG4 files.
- 5. Turn on camera to capture images.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 12 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits 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 (dBuV)					
(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.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room 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. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

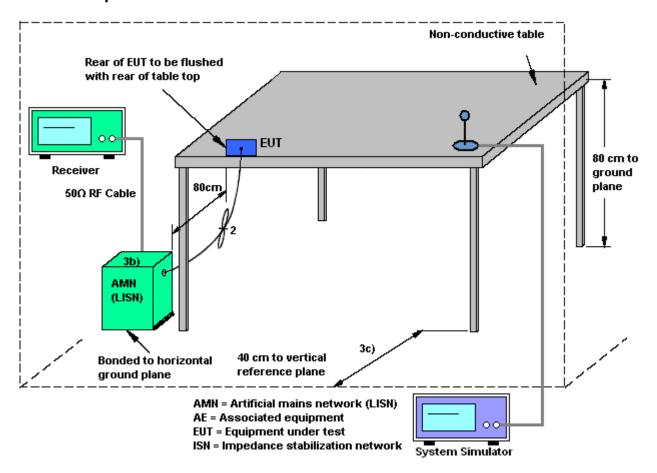
FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR

TEL: 86-755-8637-9589

Page Number : 13 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

3.1.4 Test Setup



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 14 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

3.1.5 Test Result of AC Conducted Emission

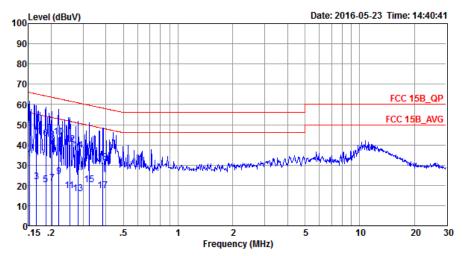
Test Mode :	Mode 2			Ten	nperatu	re:	21~2	23℃		
Test Engineer :	Tao Cheng				Relative Humidity :			41~43%		
Test Voltage :	120Vac /	60Hz		Pha	Phase :					_
Function Type :		GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging fro								from
100 Level (dBuV) Date: 2016-05-23 Time: 14:52:16										
90										
80-										
70 60								FCC 15B_	QP	
50	7							FCC 15B_A	NVG	
40		12						***		
30		MILWAY	March Contract	Lephymena		MALANA AND AND AND AND AND AND AND AND AND	White halp	Mr.		
				M M	Marieth Annual L	4144 .		Mary Market Haller &	Perkus	
20										
10										
0-1	15 .2	.5	1	Fragu	2	5	10	20	30	
Site	: CO01-S	.7		Frequ	ency (MHz))				
	n: FCC 15		SN_201605	09 LINE						
_	: (FC) 65									
Mode IMEI	: Mode 2 : 354147		72/354147	0431408	71					
			Over	Limit	Read	LISN	Cable			
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark		
_	MHz	dBu∀	dB	dBu∀	dBu∇	dB	dB		_	
1	0.16	27.10	-28.15	55.25	16.40	0.13	10.57	Average		
2	0.16		-14.05	65.25	40.50	0.13	10.57			
3	0.21		-27.56	53.36	15.20	0.11		Average		
4 *	0.21		-13.36	63.36	39.40	0.11	10.49			
5 6	0.24		-34.89	52.17	6.70			Average		
7	0.24		-22.09 -34.88	62.17 50.72	29.50 5.30		10.47	Qr Average		
8	0.28			60.72	26.30		10.43	_		
9				49.75	6.80			Average		
10			-25.55				10.39	_		
11	0.44		-16.60	47.15				Average		
12				57.15			10.24	_		

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 15 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3



Test Mode :	Mode 2	Temperature :	21~23℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type	+ USB Cable (Charging from		
Function Type :	 Adapter) + Earphone + Cam	D Card	



Site : CO01-SZ

Condition: FCC 15B_QP LISN_20160509 NEUTRAL

Project : (FC)652004 Mode : Mode 2

IMEI : 354147042140872/354147043140871

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBuV	dBu∀	dB	dB	
_								_
1			-23.17		22.00			Average
2 4	0.15	49.94	-15.97	65.91	39.20	0.14	10.60	QP
3	0.17	21.89	-33.27	55.16	11.20	0.13	10.56	Average
4	0.17	45.89	-19.27	65.16	35.20	0.13	10.56	QP
5	0.19	20.44	-33.76	54.20	9.80	0.12	10.52	Average
6	0.19	43.04	-21.16	64.20	32.40	0.12	10.52	QP
7	0.20	21.21	-32.28	53.49	10.60	0.11	10.50	Average
8	0.20	42.61	-20.88	63.49	32.00	0.11	10.50	QP
9	0.22	24.29	-28.50	52.79	13.70	0.11	10.48	Average
10	0.22	43.79	-19.00	62.79	33.20	0.11	10.48	QP
11	0.25	17.36	-34.28	51.64	6.80	0.11	10.45	Average
12	0.25	40.06	-21.58	61.64	29.50	0.11	10.45	QP
13	0.28	15.94	-34.82	50.76	5.40	0.11	10.43	Average
14	0.28	37.14	-23.62	60.76	26.60	0.11	10.43	QP
15	0.33	20.18	-29.39	49.57	9.70	0.11	10.37	Average
16	0.33	35.28	-24.29	59.57	24.80	0.11	10.37	QP
17	0.39	17.48	-30.69	48.17	7.10	0.11	10.27	Average
18	0.39	31.38	-26.79	58.17	21.00	0.11	10.27	QP

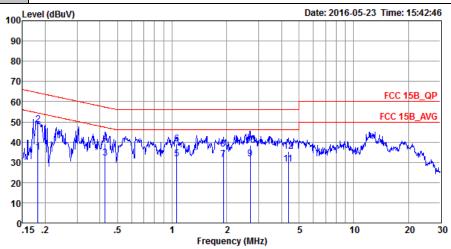
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 16 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

FCC Test Report Report No.: FC652004

Test Mode :	Mode 4	Temperature :	21~23 ℃			
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			
	TE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link v					

TE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM2



: CO01-SZ Site

Condition: FCC 15B_QP LISN_20160509 LINE

Project : (FC) 652004 : Mode 4

IMEI : 354147042140872/354147043140871

	_		Over	Limit	Read		Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
_	MHz	dBu₹	dB	dBu₹	dBu₹	dB	dB	
1	0.18	35.05	-19.32	54.37	24.40	0.12	10.53	Average
2	0.18	48.65	-15.72	64.37	38.00	0.12	10.53	QP
3	0.43	32.05	-15.24	47.29	21.70	0.11	10.24	Average
4	0.43	39.45	-17.84	57.29	29.10	0.11	10.24	QP
5 *	1.06	31.87	-14.13	46.00	21.60	0.11	10.16	Average
6	1.06	39.17	-16.83	56.00	28.90	0.11	10.16	QP
7	1.92	31.38	-14.62	46.00	21.10	0.11	10.17	Average
8	1.92	36.48	-19.52	56.00	26.20	0.11	10.17	QP
9	2.69	31.71	-14.29	46.00	21.40	0.12	10.19	Average
LO	2.69	38.31	-17.69	56.00	28.00	0.12	10.19	QP
11	4.36	29.27	-16.73	46.00	18.90	0.14	10.23	Average
12	4.36	35.47	-20.53	56.00	25.10	0.14	10.23	QP

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 17 of 24 Report Issued Date : Jul. 12, 2016 Report Version : Rev. 01

Report No.: FC652004

Test Mode :	Mode 4		Temperatu	re :	21~23°C	
Test Engineer :	Tao Cheng		Relative H	Relative Humidity: 41~43%		
Test Voltage :	120Vac / 60Hz		Phase :		Neutral	
Test voitage.	120 Vac / 00112		Filase .		INCUIIAI	
Function Type :	LTE Band 7 Id	le + Bluetoo	oth Idle + V	VLAN Idle	+ USB Cable	e (Data Link with
Function Type.	Notebook) + Ea	rphone + SE	Card + GP	S Rx + FM	I Rx + SIM2	
400 ^L	evel (dBuV)			Date:	2016-05-23 Time: 1	5:45:38
90						
80						
70						
60					FCC 1	5B_QP
					FCC 15	B AVG
50	N Mar (n. J. f. d. a.		um Jens white			
40	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	had been been been been been been been bee	White President	All health was been been	LINE MANAGEMENT	
30	 		- 1 11	- VV4 - 1	M	MAN WAY
20						
10						
0.1	15 .2 .5	1	2 Frequency (MHz	5	10 2	0 30
Site	: CO01-SZ		rrequency (Mriz	,		
	on: FCC 15B_QP LI	SN_20160509	NEUTRAL			
_	: (FC) 652004	_				
Mode IMEI	: Mode 4 : 3541470421408	72/354147043	140871			
		Over Li		LISN C	Cable	
	Freq Level	Limit L	ine Level	Factor	Loss Remark	
_	MHz dBuV	dB d	BuV dBuV	dB	dB	
1	0.17 35.77	-19.00 54	.77 25.10	0.12 1	LO.55 Average	
2	0.17 47.87	-16.90 64	.77 37.20	0.12 1	LO.55 QP	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 18 of 24 Report Issued Date: Jul. 12, 2016 Report Version : Rev. 01

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

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

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, 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.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 19 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

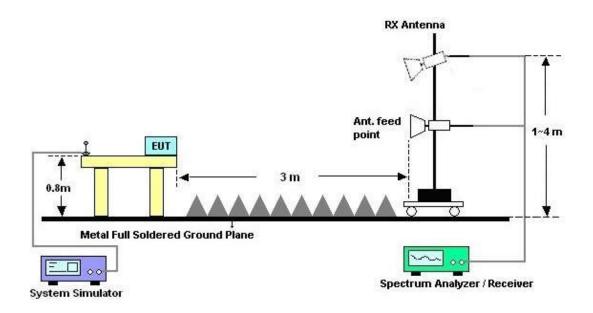
FCC Test Report No.: FC652004

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



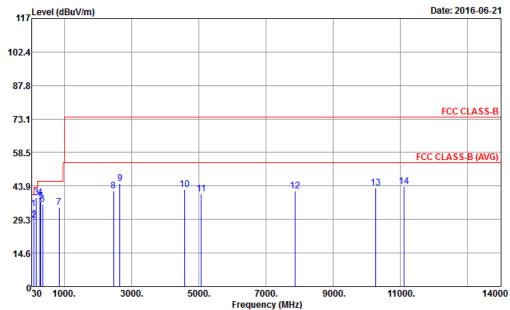
For radiated emissions above 1GHz



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 20 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	21~22°C				
Test Engineer :	Jason Peng	Relative Humidity :	41~42%				
Test Distance :	3m	Polarization :	Horizontal				
Eupation Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with						
Function Type :	Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM2						
Remark :	#9 is system simulator signal which can be ignored.						



: 03CH02-SZ Site

Condition : FCC CLASS-B 3m LF_ANT(23188)6_15101 HORIZONTAL

Project : (FC) 652004

Mode : Mode 4

IMEI : 354147042140880/354147043140889

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	89.94	34.03	-9.47	43.50	41.57	17.30	0.98	25.82			Peak
2	98.04	28.95	-14.55	43.50	35.32	18.28	1.14	25.79			Peak
3	165.81	38.72	-4.78	43.50	46.07	16.88	1.20	25.43	100	214	QP
4	283.80	38.92	-7.08	46.00	44.55	17.87	1.57	25.07			Peak
5	300.00	37.08	-8.92	46.00	41.91	18.50	1.71	25.04			Peak
6	361.60	35.71	-10.29	46.00	38.32	20.96	1.95	25.52			Peak
7	841.10	34.47	-11.53	46.00	29.59	27.98	2.95	26.05			Peak
8	2468.00	41.86	-32.14	74.00	62.77	32.67	5.16	58.74			Peak
9	2656.00	44.87			65.58	32.82	5.41	58.94			Peak
10	4574.00	42.51	-31.49	74.00	60.61	34.24	7.26	59.60			Peak
11	5076.00	40.46	-33.54	74.00	55.83	34.60	7.66	57.63			Peak
12	7876.00	41.81	-32.19	74.00	53.03	36.45	10.81	58.48			Peak
13	10278.00	42.91	-31.09	74.00	51.38	38.33	12.17	58.97			Peak
14	11116.00	43.64	-30.36	74.00	51.78	38.89	12.58	59.61	100	0	Peak

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 21 of 24 Report Issued Date: Jul. 12, 2016 Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

Report No. : FC652004

Test Mode :	Mode 4		Т	emperature):	21~22°C			
Test Engineer	: Jason	Jason Peng			nidity :	: 41~42%			
Test Distance	: 3m		F	Polarization	:	Vertical			
	LTE B	and 7 Idle	+ Bluetoot	h Idle + WI	_AN Idle	+ USB Cab	le (Data Link	with	
Function Type	Notebo	ook) + Earpl	none + SD	Card + GPS	Rx + FM	1 Rx + SIM2			
Remark :	#8 is s	ystem simu	lator signal	which can b	e ignore	d.			
117 ^{Le}	vel (dBuV/m)						Date: 2016-06-21		
102.4									
87.8									
73.1							FCC CLASS-B		
50.5									
58.5		8	40			FCC	CLASS-B (AVG)		
43.9	7		10	1	12	13 14			
29.3	6								
14.6									
030	1000.	3000.	5000.	7000.	9000.	11000.	14000	i	

Site : 03CH02-SZ

: FCC CLASS-B 3m LF_ANT(23188)6_15101 VERTICAL : (FC) 652004 Condition

Project

Mode : Mode 4

IMEI : 354147042140880/354147043140889

Remark
Peak
Peak
QP
Peak

Frequency (MHz)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 22 of 24 Report Issued Date: Jul. 12, 2016 Report Version : Rev. 01

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz;Ma x 30dBm	Oct. 20, 2015	May 23, 2016	Oct. 19, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 12, 2016	May 23, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 12, 2016	May 23, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Aug. 07, 2015	May 23, 2016	Aug. 06, 2016	Conduction (CO01-SZ)
		LIT-153						
Pulse Limiter	COM-POWER	Transient	53139	150kHz~30MHz	Oct. 20, 2015	May 23, 2016	Oct. 19, 2016	Conduction (CO01-SZ)
		Limiter						,
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz; Max 30dBm	Oct. 20, 2015	Jun. 21, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 20, 2015	Jun. 21, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	May 21, 2016	Jun. 21, 2016	May 20, 2017	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	Jun. 21, 2016	Jan. 10, 2017	Radiation (03CH02-SZ)
Amplifier	HP	8447F	3113A04622	9kHz~1300MHz / 30 dB	Aug. 07, 2015	Jun. 21, 2016	Aug. 06, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	Jun. 21, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Jun. 21, 2016	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jun. 21, 2016	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jun. 21, 2016	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR Page Number : 23 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

5. Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of	E OAD
Confidence of 95% (U = 2Uc(y))	5.0dB

<u>Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)</u>

Measuring Uncertainty for a Level of	4.9dB
Confidence of 95% (U = 2Uc(y))	4.9ub

SPORTON INTERNATIONAL (SHENZHEN) INC.

FAX: 86-755-8637-9595 FCC ID: YHLBLUPUREXR

TEL: 86-755-8637-9589

Page Number : 24 of 24
Report Issued Date : Jul. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3