FCC Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: smartphone

BRAND NAME : BLU

MODEL NAME : NEO X PLUS

FCC ID : YHLBLUNEOXPLUS

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Dec. 12, 2015 and testing was completed on Dec. 28, 2015. 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 C63.4-2009 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: Andy Yeh / Manager

Andy Jeh

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 1 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report No.: FC5D1201

Report Template No.: BU5-FD15B Version 1.2

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SII	ΜΜΔΕ	RY OF TEST RESULT	4
		ERAL DESCRIPTION	
	1.1. 1.2. 1.3. 1.4. 1.5. 1.6. 1.7.	Applicant	
2.	2.1. 2.2. 2.3. 2.4.	Support Unit used in test configuration and system	10 11
3.	3.1. 3.2.	RESULT Test of AC Conducted Emission Measurement Test of Radiated Emission Measurement	13
		OF MEASURING EQUIPMENT	
		IX A. SETUP PHOTOGRAPHS	2

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 2 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5D1201	Rev. 01	Initial issue of report	Jan. 28, 2016

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 3 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	ICES003 Section 6.1	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 6.88 dB at 0.490 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 4.73 dB at 207.930 MHz for Quasi-Peak

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 4 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

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	smartphone
Brand Name	BLU
Model Name	NEO X PLUS
FCC ID	YHLBLUNEOXPLUS
	GSM/GPRS/EGPRS/WCDMA/HSPA/
EUT supports Radios application	HSPA+(16QAM uplink is not supported)/
Lo i supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40/
	Bluetooth v3.0+EDR/ Bluetooth v4.0 LE
IMEI Code	Conduction: 366313028503217/366313028503225
INIELCOGE	Radiation: 366313028503217/366313028503225
HW Version	V542-MB-V0.3
SW Version	V542_02D_CFZZ_BLU_BT_FM_GS_WIFI_GPS_DC_Y2D
344 AGIZIOII	_V01_20151208_1511.tmp
EUT Stage	Pre-Production

Remark:

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 5 of 25 Report Issued Date: Jan. 28, 2016 Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

1.4. Product Specification of Equipment Under Test

Standa	Standards-related Product Specification						
	GSM850: 824.2 MHz ~ 848.8 MHz						
	GSM1900: 1850.2 MHz ~ 1909.8MHz						
	WCDMA Band V: 826.4 MHz ~ 846.6 MHz						
Tx Frequency	WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz						
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz						
	802.11b/g/n: 2412 MHz ~ 2462 MHz						
	Bluetooth: 2402 MHz ~ 2480 MHz						
	GSM850: 869.2 MHz ~ 893.8 MHz						
	GSM1900: 1930.2 MHz ~ 1989.8 MHz						
	WCDMA Band V: 871.4 MHz ~ 891.6 MHz						
Rx Frequency	WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz						
TX 1 requeries	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz						
	802.11b/g/n: 2412 MHz ~ 2462 MHz						
	Bluetooth: 2402 MHz ~ 2480 MHz						
	GPS: 1.57542 GHz						
	WWAN : FPC Antenna						
Antenna Type	WLAN : FPC Antenna						
	Bluetooth : FPC Antenna						
	GPS: FPC Antenna						
	GSM: GMSK						
	GPRS: GMSK						
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK						
	WCDMA: QPSK (Uplink)						
	HSDPA: QPSK (Uplink)						
	HSUPA: QPSK (Uplink)						
Type of Modulation	HSPA+: 16QAM uplink is not supported						
Type of modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)						
	802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)						
	Bluetooth v4.0 LE : GFSK						
	Bluetooth (1Mbps): GFSK						
	Bluetooth (2Mbps) : π /4-DQPSK						
	Bluetooth (3Mbps): 8-DPSK						
	GPS: BPSK						

1.5. Modification of EUT

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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 6 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01
Report Template No.: BU5-FD15B Version 1.2

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				
rest 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.				
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan				
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755- 3320-2398				
Test Site No.	Sporton Site No. FCC/IC Registration				
rest site no.	03CH02-SZ	566869/4086F			

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 C63.4-2009

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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 7 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 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 AC	EMI RE<1G	EMI 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.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Page Number

Report Template No.: BU5-FD15B Version 1.2

: 8 of 25

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

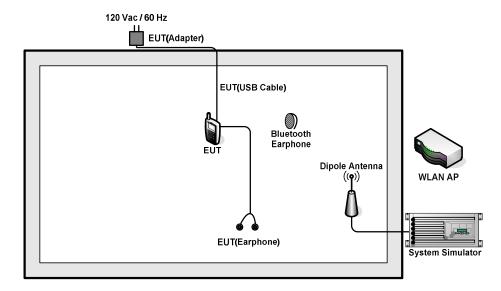
Remark:

- 1. The worst case of AC is mode 3; and the USB Link mode of AC is mode 4, the test data of these modes were 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.

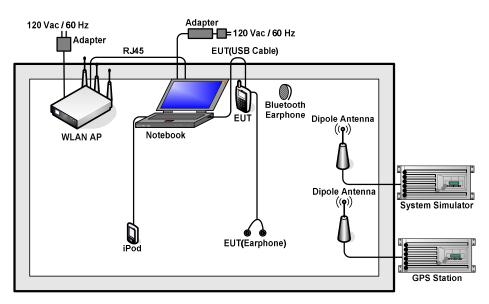
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 9 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 10 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

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	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
5.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
7.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
8.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
9.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A
10.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 11 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA 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. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video Player" to play MPEG4 files.
- 4. Turn on camera to capture images.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 12 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

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.

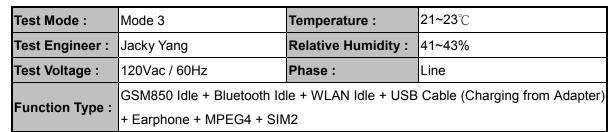
3.1.4 Test Setup

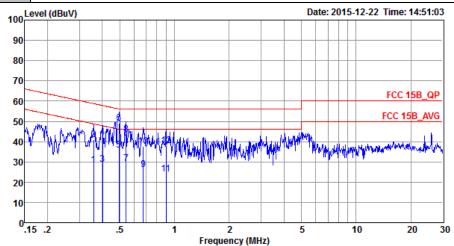


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 14 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

3.1.5 Test Result of AC Conducted Emission





Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20150304 LINE

Project : (FC)5D1201 Mode : Mode 3

IMEI : 866313028503217/866313028503225

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBu∀	dBuV	dB	dB	
1	0.36	28.43	-20.31	48.74	17.70	0.55	10.18	Average
2	0.36	41.03	-17.71	58.74	30.30	0.55	10.18	QP
3	0.40	28.71	-19.10	47.81	18.00	0.54	10.17	Average
4	0.40	42.01	-15.80	57.81	31.30	0.54	10.17	QP
5	0.49	35.82	-10.28	46.10	24.99	0.67	10.16	Average
6 *	0.49	49.22	-6.88	56.10	38.39	0.67	10.16	QP
7	0.54	29.29	-16.71	46.00	18.50	0.64	10.15	Average
8	0.54	43.69	-12.31	56.00	32.90	0.64	10.15	QP
9	0.67	26.31	-19.69	46.00	15.60	0.56	10.15	Average
10	0.67	37.81	-18.19	56.00	27.10	0.56	10.15	QP
11	0.90	23.87	-22.13	46.00	13.20	0.52	10.15	Average
12	0.90	37.87	-18.13	56.00	27.20	0.52	10.15	QP

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 15 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2



Test Mode :	Mode 3			Ten	Temperature :			21~23°ℂ		
Test Engineer :	Jacky Yang			Rel	Relative Humidity :			41~43%		
Test Voltage :	120Vac / 60Hz			Pha	Phase :			Neutral		
GSM850 Idle + Bluetooth Idl				Idle +	le + WLAN Idle + USB Cable (Charging from Adapter)					
Function Type :	+ Earpho	one + M	IPEG4 + :	SIM2						
100L	evel (dBuV)									
90										
80-										
70								FCC 15B_0	QP .	
60								FCC 15B_A		
50	ب بيد الألما	A 1	8 . 12					TCC I3D_A	<u>vo</u>	
40	L. Norther	VM/ /4	This Age of the	oypheteledlika.	WATER BANKANTA	Marghirt W. W. Alberton B.	Madericka	nadalah kerbahan da	M	
30			1 1 11		1 49 1		7, 8, 4, 4, 8,	COLUMN CO	_	
20										
10										
0.1	15 .2	.5	1		2	5	10) 20	30	
				Frequ	iency (MHz)				
Site Condition	: CO01-S		SN N 2015	0304 NE	UTRAL					
Project	Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL Project : (FC)5D1201									
Mode IMEI	Mode : Mode 3 IMEI : 866313028503217/866313028503225									
			Over	Limit	Read	LISN	Cable			
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark		
	MHz	dBuV	dB	dBu₹	dBu∇	dB	dB		-	
1	0.43	31.33	-15.91	47.24	20.60	0.57	10.16	Average		
2	0.43	44.03	-13.21	57.24	33.30	0.57	10.16	QP		
3	0.48	36.16	-10.20	46.36	25.40	0.60	10.16	Average		
4 *	0.48	47.46		56.36	36.70		10.16			
5	0.52			46.00	21.51			Average		
6	0.52		-10.04		35.21		10.15			
7 8	0.57			46.00	19.10			Average		
9	0.57 0.67				32.10 20.70		10.15	QP Average		
10	0.67			56.00			10.15	_		
11	0.94		-17.89					Average		
12	0.94		-16.19				10.15	_		

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 16 of 25 Report Issued Date : Jan. 28, 2016 Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2



21~23°C Test Mode: Mode 4 Temperature: Test Engineer: **Relative Humidity:** 41~43% Jacky Yang 120Vac / 60Hz Test Voltage: Phase: Line GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1 100 Level (dBuV) Date: 2015-12-22 Time: 15:35:14 90 80 70 FCC 15B_QP 60 FCC 15B_AVG 50 40 30 20 10 .15 .2 .5 2 5 10 20 30 Frequency (MHz) Site : CO01-SZ Condition: FCC 15B_QP LISN_L_20150304 LINE Project : (FC)5D1201 Mode : Mode 4 : 866313028503217/866313028503225 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark dB dBuV dBuV MHz dBuV dB dB 0.54 10.25 Average 0.54 10.25 QP 0.24 24.19 -27.81 52.00 13.40 0.24 40.49 -21.51 62.00 29.70 2 0.35 23.44 -25.47 48.91 12.71 0.55 10.18 Average 0.35 36.04 -22.87 58.91 25.31 0.41 23.22 -24.51 47.73 12.50 0.55 10.18 QP 0.55 10.17 Average 4 5 0.41 37.32 -20.41 57.73 26.60 0.55 10.17 QP 6 0.54 24.30 -21.70 46.00 13.51 0.54 39.40 -16.60 56.00 28.61 7 0.64 10.15 Average 8 * 0.64 10.15 QP 0.62 10.15 Average 0.57 23.17 -22.83 46.00 12.40 9 0.57 37.07 -18.93 56.00 26.30 0.71 22.29 -23.71 46.00 11.60 0.71 35.59 -20.41 56.00 24.90 0.62 10.15 QP 0.54 10.15 Average 0.54 10.15 QP 10 11 12

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 17 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2



21~23°C Test Mode: Mode 4 Temperature: Test Engineer: **Relative Humidity:** 41~43% Jacky Yang 120Vac / 60Hz Test Voltage: Phase: Neutral GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with **Function Type:** Notebook) + Earphone + GPS Rx + SIM1 100 Level (dBuV) Date: 2015-12-22 Time: 15:31:10 90 80 70 FCC 15B_QP 60 FCC 15B_AVG 50 40 30 20 10 0<u>.15</u> 2 5 10 20 30 Frequency (MHz) : CO01-SZ Site Condition: FCC 15B QP LISN N 20150304 NEUTRAL Project : (FC)5D1201 Mode : Mode 4 IMEI : 866313028503217/866313028503225 Over Limit Read LISN Cable Line Level Factor Loss Remark Freq Level Limit dB dBuV dBuV dBuV dB MHz dB 1 0.23 26.20 -26.10 52.30 15.40 0.54 10.26 Average 0.23 41.40 -20.90 62.30 30.60 0.54 10.26 QP 0.27 23.99 -26.99 50.98 13.20 0.57 10.22 Average 3 0.27 41.09 -19.89 60.98 30.30 0.40 25.42 -22.48 47.90 14.70 0.40 38.22 -19.68 57.90 27.50 0.57 10.22 QP 5 0.55 10.17 Average 0.55 10.17 QP 6 0.53 23.55 -22.45 46.00 12.80 0.60 10.15 Average 0.53 40.35 -15.65 56.00 29.60 0.58 22.34 -23.66 46.00 11.61 8 * 0.60 10.15 QP 0.58 10.15 Average 9 0.58 36.24 -19.76 56.00 25.51 0.58 10.15 QP 10 0.68 23.91 -22.09 46.00 13.20 0.68 36.81 -19.19 56.00 26.10 0.56 10.15 Average 0.56 10.15 QP 11 12

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 18 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

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.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 19 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

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.
- 6. 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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 20 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

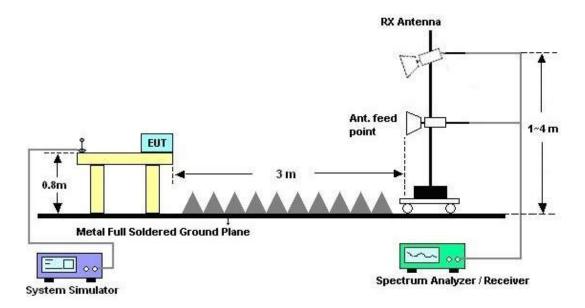
Report Template No.: BU5-FD15B Version 1.2

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



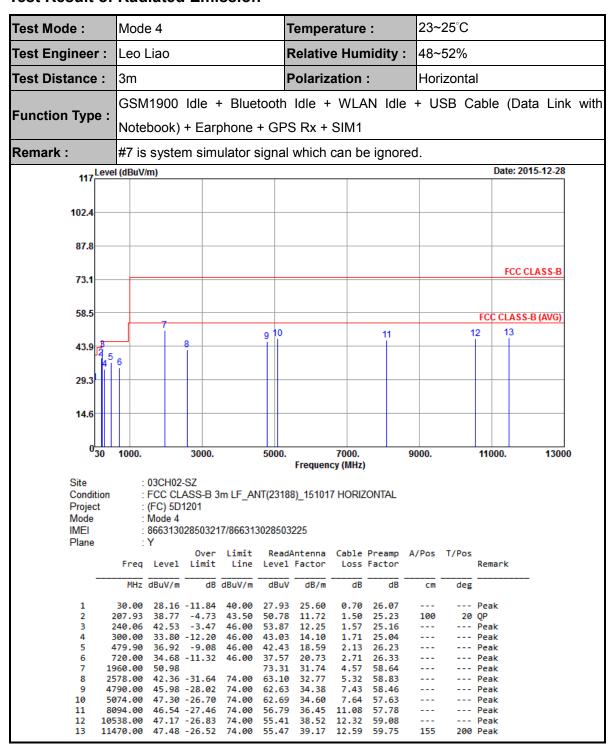
For radiated emissions above 1GHz



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 21 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

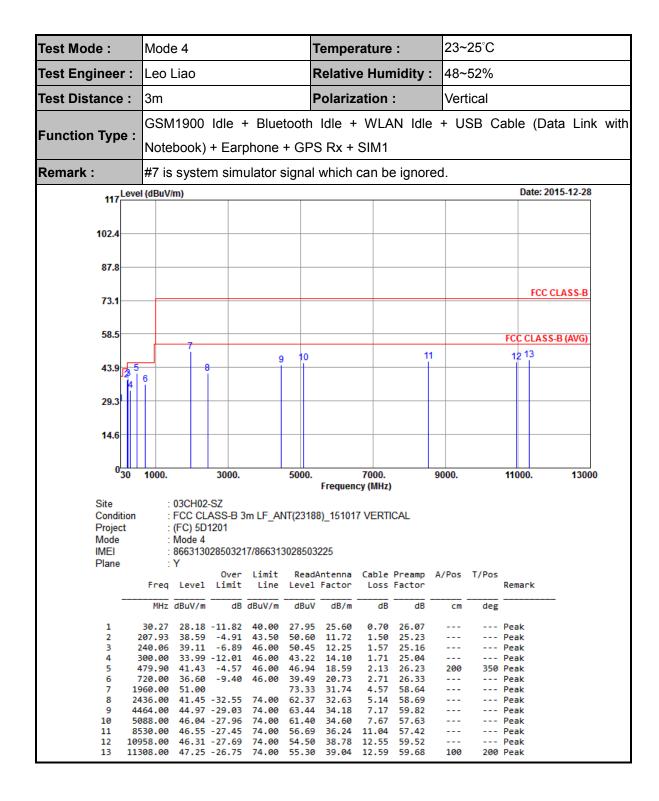
3.2.5. Test Result of Radiated Emission



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 22 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

Report No.: FC5D1201



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 23 of 25 Report Issued Date: Jan. 28, 2016 Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

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	Dec. 28, 2015	Oct. 19, 2016	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 20, 2015	Dec. 28, 2015	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	May 06, 2015	Dec. 28, 2015	May 05, 2016	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 20, 2015	Dec. 28, 2015	Jan. 19, 2016	Radiation (03CH02-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Dec. 28, 2015	Jan. 27, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	Dec. 28, 2015	Oct. 19, 2016	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Dec. 28, 2015	NCR	Radiation (03CH02-SZ
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 28, 2015	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 28, 2015	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Dec. 22, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Dec. 22, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Dec. 22, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Aug. 07, 2015	Dec. 22, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Dec. 22, 2015	Oct. 19, 2016	Conduction (CO01-SZ)

NCR: No Calibration Required

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 24 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2



5. Uncertainty of Evaluation

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

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

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

Management II and the formal and of	
Measuring Uncertainty for a Level of	5.0dB
Confidence of 95% (U = 2Uc(y))	3.0ub

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUNEOXPLUS Page Number : 25 of 25
Report Issued Date : Jan. 28, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2