FCC Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : DASH X PLUS LTE FCC ID : YHLBLUDXPLUSLTE

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Nov. 04, 2015 and testing was completed on Nov. 10, 2015. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Prepared by: Andy Yeh / Manager

Approved by: Jones Tsai / Manager





Report No.: FC5N0403

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5N0403	Rev. 01	Initial issue of report	Dec. 21, 2015

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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 12.69 dB at 0.520 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 4.53 dB at 166.080 MHz for Quasi-Peak

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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	DASH X PLUS LTE
FCC ID	YHLBLUDXPLUSLTE
	GSM/GPRS/WCDMA/HSPA/
EUT supports Radios application	HSPA+(16QAM uplink is not supported)/LTE/
EOT Supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/
	Bluetooth v3.0+EDR/ Bluetooth v4.0 LE
IMEI Code	Conduction: 351771053536299/351771053536307
INIEI Code	Radiation: 351771053536232/351771053536240
HW Version	S5508-MB-V1.2
SW Version	DASH X PLUS LTE _V01_GENERIC
EUT Stage	Production Unit

Remark:

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

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1.4. Product Specification subjective to this standard

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 LTE Band 17: 706.5 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 715.3 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 WCDMA Band V: 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 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 127.9 MHz ~ 1987.6 MHz LTE Band 2: 1930.7 MHz ~ 1987.6 MHz LTE Band 17: 2622.5 MHz ~ 2637.5 MHz LTE Band 17: 2622.5 MHz ~ 2637.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz Bluetooth: 2402 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz WWAN: IFA Antenna Bluetooth: PIFA Antenna Bluetooth: PIFA Antenna GPS: PIFA Antenna	Product Specification subjective to this standard				
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WCDMA Band II : 1852.4 MHz ~ 1907.6 MHz					
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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 LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz~743.5 MHz LTE Band 17: 736.5 MHz~2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz WWAN: IFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS: PIFA Antenna GSM: GMSK GPRS: GMSK					
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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 LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz~743.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz WWAN: IFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS: PIFA Antenna GPS: PIFA Antenna GSM: GMSK GPRS: GMSK	By Frequency				
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Antenna Type WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS: PIFA Antenna GSM: GMSK GPRS: GMSK					
Bluetooth : PIFA Antenna GPS: PIFA Antenna GSM: GMSK GPRS: GMSK					
GPS: PIFA Antenna GSM: GMSK GPRS: GMSK	Antenna Type				
GSM: GMSK GPRS: GMSK					
GPRS: GMSK					
I WODIVIA. OF ST. LUDIII KI		WCDMA: QPSK (Uplink)			
HSDPA: QPSK (Uplink)					
HSUPA: QPSK (Uplink)		` ' '			
HSPA+: 16QAM (16QAM uplink is not supported)					
ITE OPSK / 160AM					
Type of Modulation 802.11b : DSSS (DBPSK / DQPSK / CCK)	Type of Modulation				
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					

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1.5. Modification of EUT

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

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
Toot 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 No.	
rest site No.	03CH01-SZ	831040/4086F	

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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.

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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 RE<1G	EMI RE≥1G	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	Note 1	
2.	Charging 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.

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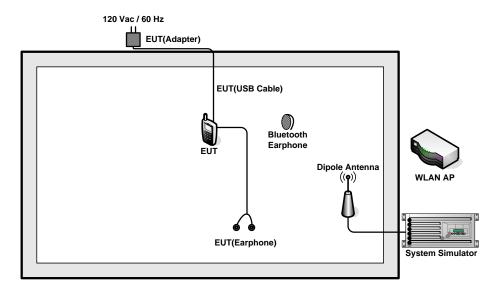
Test Items	EUT Configure Mode	Function Type
		Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1 <fig.1></fig.1>
AC Conducted	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM1 < 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: LTE Band 7 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 II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1 <fig.1></fig.1>
Radiated		Mode 2: WCDMA Band II 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: LTE Band 7 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: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>

Remark:

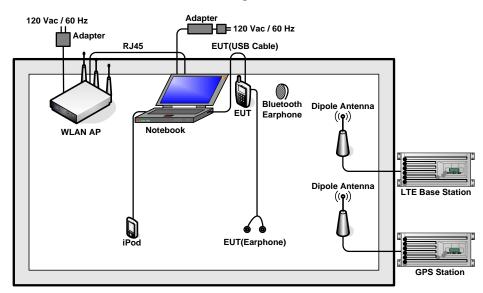
- 1. The worst case of AC is mode 3, and the USB Link mode of AC is mode 4, the test data of these modes were reported.
- 2. The worst case of RE < 1G is mode 4; only the test data of this mode was reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

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2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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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	CMU200	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.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
6.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
7.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
8.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
9.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
10.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
11.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.2 m	N/A

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

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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

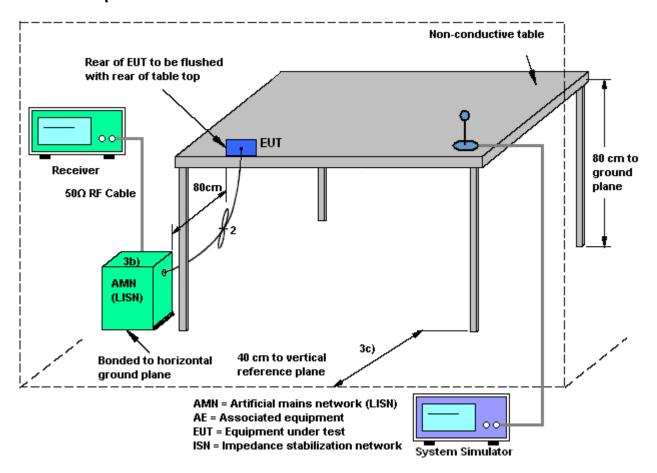
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 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.

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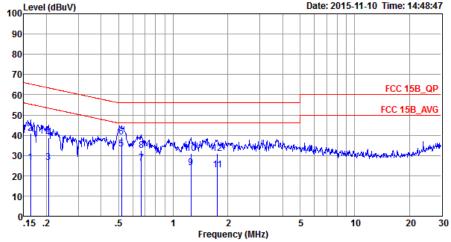
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 3	Temperature :	21~23℃	
Test Engineer :	Jacky Yang Relative Humidity :		41~43%	
Test Voltage :	120Vac / 60Hz	Phase :	Line	
Function Type .	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)			
Function Type :	+ Earphone + MPEG4 + SIN	Л 2		
400 ^L	evel (dBuV)	Date:	2015-11-10 Time: 14:48:47	
100				
90				



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20150304 LINE

Project : (FC) 5N0403 Mode : Mode 3

IMEI : 351771053536299/351771053536307

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu₹	dB	dBuV	dBu₹	dB	dB	
1	0.16	26.70	-28.60	55.30	15.90	0.46	10.34	Average
2	0.16	41.00	-24.30	65.30	30.20	0.46	10.34	QP
3	0.21	26.61	-26.79	53.40	15.80	0.52	10.29	Average
4	0.21	38.61	-24.79	63.40	27.80	0.52	10.29	QP
5 *	0.52	33.31	-12.69	46.00	22.50	0.65	10.16	Average
6	0.52	39.21	-16.79	56.00	28.40	0.65	10.16	QP
7	0.67	26.31	-19.69	46.00	15.60	0.56	10.15	Average
8	0.67	32.61	-23.39	56.00	21.90	0.56	10.15	QP
9	1.25	24.16	-21.84	46.00	13.51	0.49	10.16	Average
10	1.25	31.16	-24.84	56.00	20.51	0.49	10.16	QP
11	1.75	22.75	-23.25	46.00	12.10	0.47	10.18	Average
12	1.75	31.05	-24.95	56.00	20.40	0.47	10.18	OP

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Test Mode :	Mode 3			Ten	nperatu	re:	21~2	21~23 ℃		
Test Engineer :	Jacky Ya	ing		Rel	Relative Humidity :			41~43%		
Test Voltage :	120Vac /	60Hz		Pha	Phase : Ne			ral		
	GSM850	Idle +	Bluetootl	h Idle +	le + WLAN Idle + USB Cable (Charging from Adapter					
Function Type :	+ Earpho							, 00	,	
100L	evel (dBuV)					Date: 2015-11-10 Time: 14:45:18				
90										
80-										
70										
-								FCC 15B_C)P	
60								FCC 15B_AV	/G	
50	MANANA.	76								
40	A SHAPE	W/W TOWN	WE'T MANAGE	WANTED AND STREET	water/Aphinestyd	Market High property	Macades	al	M	
30	3		7 9	11				AND SHAPE OF THE PERSON ST.		
20										
10										
0.1	15 .2	.5	1		2 2	5	10	20	30	
Site	: CO01-S	7.		riequ	ency (MHz	,				
Conditio	n: FCC 15	B_QP LI	SN_N_201	50304 NE	UTRAL					
Project Mode	: (FC)5N : Mode 3									
IMEI	: 351771	0535362	99/351771							
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable	Remark		
									-	
	MHz	dBu∇	dB	dBuV	dBu∇	dB	dB			
1	0.16		-28.09	55.60	16.70			Average		
2 3	0.16 0.19		-24.09	65.60 53.93	30.70		10.35			
4	0.19		-29.02 -24.82	63.93	14.11 28.31		10.30	Average		
5	0.52		-16.34	46.00	18.91			Average		
6 *	0.52		-16.14	56.00	29.11		10.15	_		
7				46.00				Average		
8	0.63		-22.58	56.00	22.70		10.15	_		
9	0.95		-24.29	46.00				Average		
10	0.95	32.31	-23.69	56.00	21.60	0.56	10.15	QP		
11	1.43	20.93	-25.07	46.00	10.19	0.57	10.17	Average		
12	1.43	32.13	-23.87	56.00	21.39	0.57	10.17	QP		

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Test Mode: Mode 4 21~23℃ Temperature: Test Engineer: Jacky Yang Relative Humidity: 41~43% Test Voltage: 120Vac / 60Hz Phase: Line LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with **Function Type:** Notebook) + Earphone + GPS Rx + SIM1 100 Level (dBuV) Date: 2015-11-10 Time: 15:03:41 90 80 70 FCC 15B_QP 60 FCC 15B_AVG 50 40 20 10 .15 .2 10 20 30 Frequency (MHz) Site : CO01-SZ Condition: FCC 15B_QP LISN_L_20150304 LINE Project : (FC) 5N0403 Mode : Mode 4 : 351771053536299/351771053536307 TMET

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBu₹	dBu₹	dB	dB	
1	0.24	26.40	-25.77	52.17	15.61	0.54	10.25	Average
2	0.24	42.00	-20.17	62.17	31.21	0.54	10.25	QP
3	0.35	23.94	-25.11	49.05	13.19	0.56	10.19	Average
4	0.35	36.04	-23.01	59.05	25.29	0.56	10.19	QP
5	0.40	24.81	-23.14	47.95	14.10	0.54	10.17	Average
6	0.40	37.51	-20.44	57.95	26.80	0.54	10.17	QP
7	0.53	23.40	-22.60	46.00	12.60	0.65	10.15	Average
8	0.53	36.30	-19.70	56.00	25.50	0.65	10.15	QP
9	0.60	23.95	-22.05	46.00	13.20	0.60	10.15	Average
10 *	0.60	37.15	-18.85	56.00	26.40	0.60	10.15	QP
11	0.70	23.39	-22.61	46.00	12.70	0.54	10.15	Average
12	0.70	35.79	-20.21	56.00	25.10	0.54	10.15	QP

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Test Mode :	Mode 4	Mode 4			peratu	re:	21~2	3℃			
Test Engineer :	Jacky Ya	ing		Rela	ative Hu	umidity:	41~4	3%			
Test Voltage :	120Vac /	60Hz		Pha	se:		Neut	ral			
Function Type :					oth Idle + WLAN Idle + USB Cable (Data Li						
		otebook) + Earphone + GPS Rx + SIM1 Date: 2015-11-10 Time: 15:06:43									
100 ^L	evel (dBuV)					Date	2013-1	1-10 Tillie, 15.0	10.43		
90											
80											
70											
								FCC 15B_	QP		
60		-									
50	100	-						FCC 15B_/	AVG		
40	Maria de la Compania	MARIN	MATA I								
30	MWW I W	W WINT	Mary	and the base of the	ed a abilition	ALLEN TO THE REAL PROPERTY.	delic value (co	والمالية المالية	of the state of th		
	1	" ₹"\$7	9 1111111111	Matallinia, achiec an	in Jackston at a rate.	Colored Attack of Land Act.	Manda Alexandra Al	, , , , , , , , , , , , , , , , , , ,			
20											
10									_		
0.1	15 .2	.5	1		2	5	10	20	30		
				Frequ	ency (MHz))					
Site	: CO01-S on: FCC 15		รท ท 201	50304 NE	דעם דוד.						
Project			JN_N_201	00304 NE	UIRAL						
Mode	: Mode 4	ł									
IMEI	: 351771	10535362	99/351771 Over		07 Read	LISN	Cable				
	Freq	Level				Factor		Remark			
									_		
	MHz	dBu∀	dB	dBuV	dBuV	dB	dB				
1	0.25	27.50	-24.10	51.60	16.70	0.56	10.24	Average			
2	0.25			61.60	30.50		10.24	_			
3	0.40	23.32	-24.49	47.81	12.60	0.55	10.17	Average			
4	0.40	37.12	-20.69	57.81	26.40	0.55	10.17	QP			
5	0.47	24.25	-22.24	46.49	13.50	0.59	10.16	Average			
6	0.47			56.49			10.16				
7	0.52		-24.04					Average			
8	0.52		-20.34				10.16				
9				46.00				Average			
10			-19.67		25.60		10.15				
11	0.66		-22.49					Average			
12 *	0.66	30.81	-19.19	36.00	20.10	0.56	10.15	Ų₽			

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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		

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3.2.2. Measuring Instruments

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

3.2.3. Test Procedures

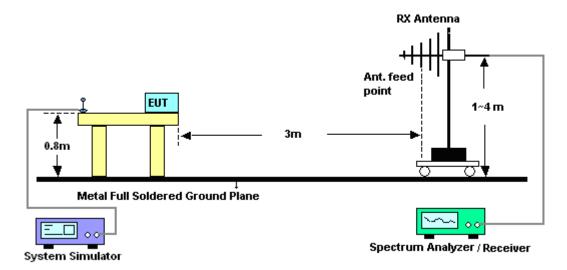
- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The 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.
- 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

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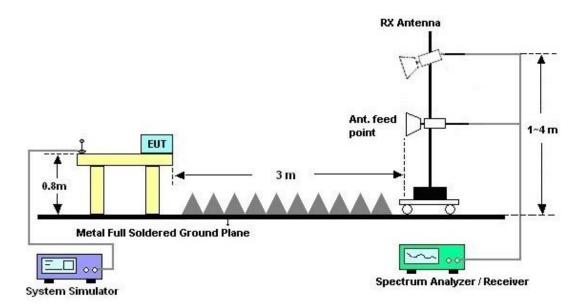
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



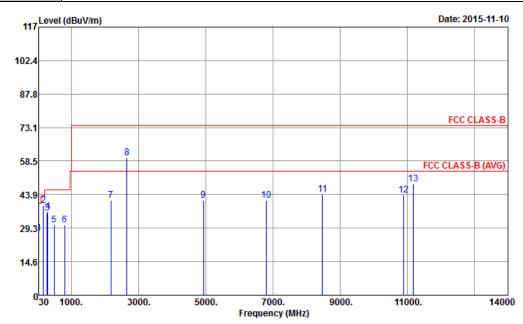
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3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	23~25°C				
Test Engineer :	Kear Huang	Relative Humidity :	48~52%				
Test Distance :	3m	Polarization :	Horizontal				
Eupotion Type	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with						
Function Type :	Notebook) + Earphone + GPS Rx + SIM1						
Remark :	#8 is system simulator signa	al which can be ignored	d.				



: 03CH01-SZ

Site Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 HORIZONTAL : (FC) 5N0403

Project

Mode : Mode 4 IMEI : 351771053536232/351771053536240

Plane : Z

			Over	Limit	Read/	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	27.08	-12.92	40.00	26.85	25.60	0.70	26.07			Peak
2	166.08	38.97	-4.53	43.50	51.02	12.00	1.38	25.43	100	20	QP
3	274.35	35.88	-10.12	46.00	46.10	13.23	1.64	25.09			Peak
4	300.00	36.63	-9.37	46.00	45.86	14.10	1.71	25.04			Peak
5	488.30	30.67	-15.33	46.00	35.91	18.90	2.13	26.27			Peak
6	799.80	30.72	-15.28	46.00	31.51	22.50	2.88	26.17			Peak
7	2184.00	41.36	-32.64	74.00	62.80	32.39	4.84	58.67			Peak
8	2655.00	59.87			80.56	32.82	5.43	58.94			Peak
9	4932.00	41.50	-32.50	74.00	58.02	34.46	7.54	58.52			Peak
10	6796.00	41.44	-32.56	74.00	54.15	36.18	9.08	57.97			Peak
11	8474.00	44.14	-29.86	74.00	54.25	36.21	11.06	57.38			Peak
12	10896.00	43.80	-30.20	74.00	51.99	38.74	12.52	59.45			Peak
13	11186.00	48.48	-25.52	74.00	56.58	38.95	12.58	59.63	100	0	Peak

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#	
RTON LAB.	FCC Test Report

Test Mode :	Mode 4			Tempe	rature	:	23~	25°C			
Test Engineer :	Kear Huan	g		Relativ	e Hun	nidity :	48~	48~52%			
Test Distance :	3m			Polariz	ation	:	Vert	Vertical			
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link Notebook) + Earphone + GPS Rx + SIM1							with			
Remark :	#8 is syste	m simulator s	signal	which	can b	e ignore	d.				
117 Level	(dBuV/m)								Date: 20	015-11-10	
102.4											
87.8											
73.1									FCC (CLASS-B	
58.5		3				44		1	FCC CLASS	S-B (AVG)	
43.9		9		10		11	12				
29.3											
14.6											
030	1000.	3000. 50	000.	700 Frequen		9000.		11000).	14000	
Site Condition Project Mode IMEI Plane	: (FC) 5N : Mode 4	ASS-B 3m LF_AN 0403 053536232/35177 Over Limit	1053536 Read	88)_15101 6240 Antenna Factor	7 VERTI	CAL	A/Pos 	T/Pos deg	Remark	-	
2 1 3 2 4 3 5 4 6 6 7 21 8 26 9 48	65.00 33.26 98.65 32.82 00.00 32.62 99.50 32.89 99.70 30.93 92.00 40.78 155.00 55.73 18.00 40.78	-6.85 40.00 -10.24 43.50 -13.18 46.00 -13.38 46.00 -13.11 46.00 -15.07 46.00 -33.22 74.00 -33.22 74.00 -33.01 74.00	45.29 42.08 41.85 37.69 34.36 62.22 76.42 57.32	12.03 14.07 14.10 19.36 20.29 32.39 32.82 34.40	1.38 1.71 1.71 2.17 2.65 4.84 5.43 7.45	26.03 25.44 25.04 25.04 26.33 26.37 58.67 58.94 58.39 58.07	125		Peak Peak Peak Peak Peak Peak Peak Peak		
11 84 12 102	86.00 44.88 34.00 44.46	-29.12 74.00 -29.54 74.00 -26.14 74.00	54.99 53.00	36.21 38.29	11.06 12.13	57.38 58.96	125		Peak Peak Peak Peak		

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Nov. 10, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz;M ax 30dBm	Jun. 07, 2015	Nov. 10, 2015	Jun. 06, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Oct. 17, 2015	Nov. 10, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 17, 2015	Nov. 10, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz ~3000MHz / 30 dB	Jan. 28, 2015	Nov. 10, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5G Hz	Jan. 28, 2015	Nov. 10, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Nov. 10, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 10, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 10, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Nov. 10, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb.02, 2015	Nov. 10, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Nov. 10, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Aug. 07, 2015	Nov. 10, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Nov. 10, 2015	Oct. 19, 2016	Conduction (CO01-SZ)
Radio communication analyzer	Anritsu	MT8820C	6201432833	GSM/WCDMA/L TE	Jan. 28, 2015	Nov. 10, 2015	Jan. 27, 2016	Conduction (CO01-SZ)

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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))	2.305

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

Measuring Uncertainty for a Level of	4 0 d D
Confidence of 95% (U = 2Uc(y))	4.8dB

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