FCC Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Smartphone

BRAND NAME : BLU

MODEL NAME : DASH X2

FCC ID : YHLBLUDASHX2

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jan. 28, 2016 and testing was completed on Mar. 04, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Prepared by: James Huang / Manager

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Report No.: FC612803

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC612803	Rev. 01	Initial issue of report	Mar. 16, 2016

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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 6.78 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 1.99 dB at 31.350 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	Smartphone
Brand Name	BLU
Model Name	DASH X2
FCC ID	YHLBLUDASHX2
	GSM/GPRS/EGPRS/
EUT supports Radios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/
EOT Supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/
	Bluetooth v3.0+EDR/Bluetooth v4.0 LE
IMEI Code	Conduction: 353919027769821/353919027819824
INIEI Code	Radiation: 353919027769599/353919027819592
HW Version	V1.0
SW Version	BLU_3702_V01_GENERIC
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.

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1.4. Product Specification of Equipment Under Test

Standa	rds-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
RX Frequency	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: PIFA Antenna
Antenna Type	WLAN : PIFA Antenna
Antenna Type	Bluetooth : PIFA Antenna
	GPS: PIFA 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.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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1.6. Test Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China					
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Took Cita No	Sporton S	Site No.	FCC/IC Registration No.			
Test Site No.	CO01-KS	03CH03-KS	306251/4086E			

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.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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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 C63.4-2014 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 AC	EMI RE<1G	EMI RE≥1G		
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	\boxtimes		
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

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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 (Front) + SIM1 <fig.1></fig.1>
AC Conducted	1/0	Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Back) + SIM2 <fig.1></fig.1>
Emission	1/2	Mode 3: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 4: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM2 <fig.2></fig.2>
	1/2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Front) + SIM1 <fig.1></fig.1>
Radiated		Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Back) + SIM2 <fig.1></fig.1>
Emissions < 1GHz		Mode 3: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 4: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM2 <fig.2></fig.2>
Radiated	3Hz 1/2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Front) + SIM1 <fig.1></fig.1>
Emissions ≥ 1GHz		Mode 2: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM2 <fig.2></fig.2>

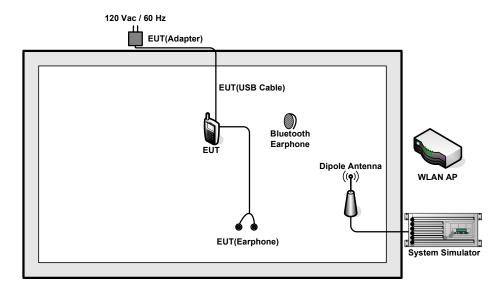
Remark:

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

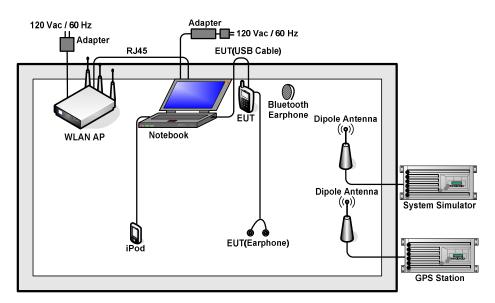
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2.2. Connection Diagram of Test System



<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	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

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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.

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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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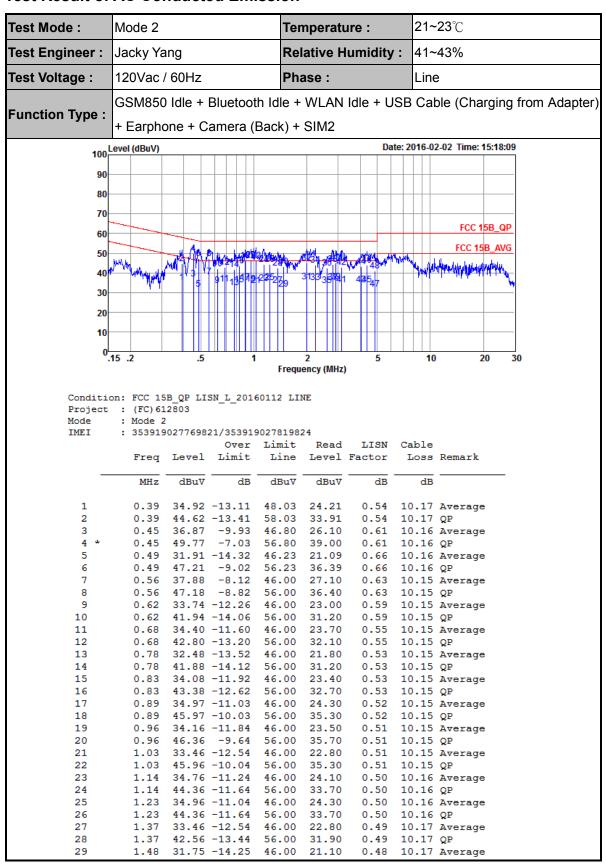
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



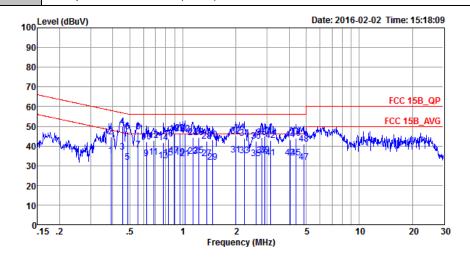
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Test Mode :	Mode 2	Temperature :	21~23 ℃		
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)				
Function Type :	+ Earphone + Camera (Bacl	k) + SIM2			



Condition: FCC 15B_QP LISN_L_20160112 LINE

Project : (FC) 612803 Mode : Mode 2

IMEI : 353919027769821/353919027819824

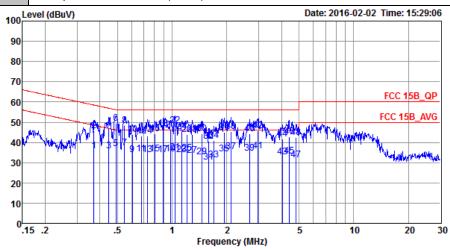
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
30	1.48	43.05	-12.95	56.00	32.40	0.48	10.17	QP
31	1.99	35.35	-10.65	46.00	24.70	0.46	10.19	Average
32	1.99	44.95	-11.05	56.00	34.30	0.46	10.19	QP
33	2.22	35.08	-10.92	46.00	24.41	0.48	10.19	Average
34	2.22	44.08	-11.92	56.00	33.41	0.48	10.19	QP
35	2.61	33.52	-12.48	46.00	22.80	0.52	10.20	Average
36	2.61	42.52	-13.48	56.00	31.80	0.52	10.20	QP
37	2.79	35.14	-10.86	46.00	24.40	0.53	10.21	Average
38	2.79	44.24	-11.76	56.00	33.50	0.53	10.21	QP
39	2.92	35.55	-10.45	46.00	24.80	0.54	10.21	Average
40	2.92	45.05	-10.95	56.00	34.30	0.54	10.21	QP
41	3.16	34.07	-11.93	46.00	23.30	0.56	10.21	Average
42	3.16	42.97	-13.03	56.00	32.20	0.56	10.21	QP
43	4.05	33.84	-12.16	46.00	23.00	0.61	10.23	Average
44	4.05	43.14	-12.86	56.00	32.30	0.61	10.23	QP
45	4.38	34.05	-11.95	46.00	23.20	0.62	10.23	Average
46	4.38	43.75	-12.25	56.00	32.90	0.62	10.23	QP
47	4.87	31.87	-14.13	46.00	21.00	0.63	10.24	Average
48	4.87	41.07	-14.93	56.00	30.20	0.63	10.24	QP

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Test Mode :	Mode 2	Temperature :	21~23℃			
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%			
Test Voltage :	120Vac / 60Hz	Phase :	Neutral			
Function Type	GSM850 Idle + Bluetooth Id	le + WLAN Idle + USB	Cable (Charging from Adapter)			
Function Type :	+ Earphone + Camera (Back) + SIM2					



Condition: FCC 15B_QP LISN_N_20160112 NEUTRAL

Project : (FC) 612803 Mode

: Mode 2 : 353919027769821/353919027819824 IMEI

MHz				Over	Limit	Read	LISN	Cable	
1		Freq	Level	Limit	Line	Level	Factor	Loss	Remark
1									
2 0.37 45.74 -12.73 58.47 35.00 0.56 10.18 QP 3 0.45 35.64 -11.25 46.89 24.90 0.58 10.16 Average 4 0.45 46.84 -10.05 56.89 36.10 0.58 10.16 QP 5 0.49 36.96 -9.18 46.14 26.19 0.61 10.16 QP 6 * 0.49 49.36 -6.78 56.14 38.59 0.61 10.16 QP 7 0.55 37.35 -8.65 46.00 26.61 0.59 10.15 Average 8 0.55 48.45 -7.55 56.00 37.71 0.59 10.15 QP 9 0.60 33.93 -12.07 46.00 23.20 0.58 10.15 Average 10 0.60 44.03 -11.97 56.00 33.30 0.58 10.15 QP 11 0.68 34.41 -11.59 46.00 23.70 0.56 10.15 QP 12 0.68 43.11 -12.89 56.00 32.40 0.56 10.15 QP 13 0.73 34.10 -11.90 46.00 23.40 0.55 10.15 Average 14 0.73 43.20 -12.80 56.00 32.40 0.55 10.15 Average 16 0.80 34.30 -11.70 46.00 23.60 0.55 10.15 QP 17 0.89 34.11 -11.89 46.00 23.60 0.55 10.15 Average 18 0.89 46.81 -9.19 56.00 33.50 0.55 10.15 QP 21 1.04 35.11 -10.89 46.00 23.40 0.56 10.15 QP 22 1 1.04 35.11 -10.89 46.00 23.40 0.56 10.15 QP 23 1.14 34.12 -11.88 46.00 23.40 0.56 10.15 QP 24 1.14 45.22 -10.78 56.00 37.80 0.56 10.15 QP 25 1.21 34.52 -11.48 46.00 23.40 0.56 10.15 QP 26 1.21 44.02 -11.98 56.00 37.80 0.56 10.15 QP 27 1.30 33.73 -12.27 46.00 23.00 0.56 10.16 QP 27 1.30 33.73 -12.07 56.00 33.30 0.56 10.16 QP 28 1.30 43.93 -12.07 56.00 33.21 0.56 10.16 QP		MHz	dBu∀	dB	dBu∇	dBu∀	dB	dB	
2 0.37 45.74 -12.73 58.47 35.00 0.56 10.18 QP 3 0.45 35.64 -11.25 46.89 24.90 0.58 10.16 Average 4 0.45 46.84 -10.05 56.89 36.10 0.58 10.16 QP 5 0.49 36.96 -9.18 46.14 26.19 0.61 10.16 QP 6 * 0.49 49.36 -6.78 56.14 38.59 0.61 10.16 QP 7 0.55 37.35 -8.65 46.00 26.61 0.59 10.15 Average 8 0.55 48.45 -7.55 56.00 37.71 0.59 10.15 QP 9 0.60 33.93 -12.07 46.00 23.20 0.58 10.15 Average 10 0.60 44.03 -11.97 56.00 33.30 0.58 10.15 QP 11 0.68 34.41 -11.59 46.00 23.70 0.56 10.15 QP 12 0.68 43.11 -12.89 56.00 32.40 0.56 10.15 QP 13 0.73 34.10 -11.90 46.00 23.40 0.55 10.15 Average 14 0.73 43.20 -12.80 56.00 32.40 0.55 10.15 Average 16 0.80 34.30 -11.70 46.00 23.60 0.55 10.15 QP 17 0.89 34.11 -11.89 46.00 23.60 0.55 10.15 Average 18 0.89 46.81 -9.19 56.00 33.50 0.55 10.15 QP 21 1.04 35.11 -10.89 46.00 23.40 0.56 10.15 QP 22 1 1.04 35.11 -10.89 46.00 23.40 0.56 10.15 QP 23 1.14 34.12 -11.88 46.00 23.40 0.56 10.15 QP 24 1.14 45.22 -10.78 56.00 37.80 0.56 10.15 QP 25 1.21 34.52 -11.48 46.00 23.40 0.56 10.15 QP 26 1.21 44.02 -11.98 56.00 37.80 0.56 10.15 QP 27 1.30 33.73 -12.27 46.00 23.00 0.56 10.16 QP 27 1.30 33.73 -12.07 56.00 33.30 0.56 10.16 QP 28 1.30 43.93 -12.07 56.00 33.21 0.56 10.16 QP	1	0.37	35.64	-12.83	48.47	24.90	0.56	10.18	Average
3									
4 0.45 46.84 -10.05 56.89 36.10 0.58 10.16 QP 5 0.49 36.96 -9.18 46.14 26.19 0.61 10.16 Average 6 * 0.49 49.36 -6.78 56.14 38.59 0.61 10.16 QP 7 0.55 37.35 -8.65 46.00 26.61 0.59 10.15 Average 8 0.55 48.45 -7.55 56.00 37.71 0.59 10.15 QP 9 0.60 33.93 -12.07 46.00 23.20 0.58 10.15 QP 10 0.60 44.03 -11.97 56.00 33.30 0.58 10.15 QP 11 0.68 34.41 -11.59 46.00 23.70 0.56 10.15 Average 12 0.68 43.11 -12.89 56.00 32.40 0.56 10.15 QP 13 0.73 34.10 -11.90 46.00 23.40 0.55 10.15 QP 14 0.73 43.20 -12.80 56.00 32.50 0.55 10.15 QP 15 0.80 34.30 -11.70 46.00 23.60 0.55 10.15 QP 16 0.80 44.20 -11.80 56.00 33.50 0.55 10.15 QP 17 0.89 34.11 -11.89 46.00 23.40 0.56 10.15 QP 18 0.89 46.81 -9.19 56.00 33.50 0.55 10.15 QP 19 0.98 34.21 -11.79 46.00 23.40 0.56 10.15 QP 20 0.98 46.21 -9.79 56.00 36.10 0.56 10.15 QP 21 1.04 35.11 -10.89 46.00 23.50 0.56 10.15 QP 22 1.04 48.51 -7.49 56.00 37.80 0.56 10.15 QP 23 1.14 34.12 -11.88 46.00 23.40 0.56 10.15 QP 24 1.14 45.22 -10.78 56.00 37.80 0.56 10.15 QP 25 1.21 34.52 -11.48 46.00 23.40 0.56 10.16 QP 26 1.21 44.02 -11.98 56.00 33.30 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 QP		0.45							
6 * 0.49 49.36 -6.78 56.14 38.59 0.61 10.16 QP 7 0.55 37.35 -8.65 46.00 26.61 0.59 10.15 Average 8 0.55 48.45 -7.55 56.00 37.71 0.59 10.15 QP 9 0.60 33.93 -12.07 46.00 23.20 0.58 10.15 Average 10 0.60 44.03 -11.97 56.00 33.30 0.58 10.15 QP 11 0.68 34.41 -11.59 46.00 23.70 0.56 10.15 Average 12 0.68 43.11 -12.89 56.00 32.40 0.56 10.15 QP 13 0.73 34.10 -11.90 46.00 23.40 0.56 10.15 QP 15 0.80 34.30 -11.70 46.00 23.60 0.55 10.15 Average 16 0.80 44.20 -11.80 56.00 32.50 0.55 10.15 Average 17 0.89 34.11 -11.89 46.00 23.60 0.55 10.15 QP 18 0.89 46.81 -9.19 56.00 33.50 0.55 10.15 QP 19 0.98 34.21 -11.79 46.00 23.40 0.56 10.15 QP 20 0.98 46.21 -9.79 56.00 36.10 0.56 10.15 QP 21 1.04 35.11 -10.89 46.00 23.50 0.56 10.15 QP 22 1.04 48.51 -7.49 56.00 35.50 0.56 10.15 QP 23 1.14 34.12 -11.88 46.00 23.40 0.56 10.15 QP 24 1.14 45.22 -10.78 56.00 34.50 0.56 10.16 QP 25 1.21 34.52 -11.48 46.00 23.80 0.56 10.16 QP 26 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 QP	4	0.45	46.84	-10.05	56.89	36.10	0.58		_
6 * 0.49 49.36 -6.78 56.14 38.59 0.61 10.16 QP 7 0.55 37.35 -8.65 46.00 26.61 0.59 10.15 Average 8 0.55 48.45 -7.55 56.00 37.71 0.59 10.15 QP 9 0.60 33.93 -12.07 46.00 23.20 0.58 10.15 Average 10 0.60 44.03 -11.97 56.00 33.30 0.58 10.15 QP 11 0.68 34.41 -11.59 46.00 23.70 0.56 10.15 Average 12 0.68 43.11 -12.89 56.00 32.40 0.56 10.15 QP 13 0.73 34.10 -11.90 46.00 23.40 0.56 10.15 QP 14 0.73 43.20 -12.80 56.00 32.50 0.55 10.15 QP 15 0.80 34.30 -11.70 46.00 23.60 0.55 10.15 Average 16 0.80 44.20 -11.80 56.00 33.50 0.55 10.15 QP 17 0.89 34.11 -11.89 46.00 23.40 0.56 10.15 QP 18 0.98 46.81 -9.19 56.00 33.50 0.55 10.15 QP 19 0.98 34.21 -11.79 46.00 23.40 0.56 10.15 QP 20 0.98 46.21 -9.79 56.00 36.10 0.56 10.15 QP 21 1.04 35.11 -10.89 46.00 23.50 0.56 10.15 QP 22 1.04 48.51 -7.49 56.00 37.80 0.56 10.15 QP 23 1.14 34.12 -11.88 46.00 23.40 0.56 10.15 QP 24 1.14 45.22 -10.78 56.00 34.50 0.56 10.16 QP 25 1.21 34.52 -11.48 46.00 23.80 0.56 10.16 QP 26 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 QP	5	0.49	36.96	-9.18	46.14	26.19	0.61	10.16	Average
7	6 *	0.49	49.36	-6.78	56.14	38.59			_
9		0.55	37.35	-8.65	46.00	26.61	0.59	10.15	Average
10	8	0.55	48.45	-7.55	56.00	37.71	0.59	10.15	QP
11	9	0.60	33.93	-12.07	46.00	23.20	0.58	10.15	Average
12	10	0.60	44.03	-11.97	56.00	33.30	0.58	10.15	QP
13	11	0.68	34.41	-11.59	46.00	23.70	0.56	10.15	Average
14	12	0.68	43.11	-12.89	56.00	32.40	0.56	10.15	QP
15	13	0.73	34.10	-11.90	46.00	23.40	0.55	10.15	Average
16	14	0.73	43.20	-12.80	56.00	32.50	0.55	10.15	QP
17	15	0.80	34.30	-11.70	46.00	23.60	0.55	10.15	Average
18	16	0.80	44.20	-11.80	56.00	33.50	0.55	10.15	QP
19	17	0.89	34.11	-11.89	46.00	23.40	0.56	10.15	Average
20	18	0.89	46.81	-9.19	56.00	36.10	0.56	10.15	QP
21	19	0.98	34.21	-11.79	46.00	23.50	0.56	10.15	Average
22 1.04 48.51 -7.49 56.00 37.80 0.56 10.15 QP 23 1.14 34.12 -11.88 46.00 23.40 0.56 10.16 Average 24 1.14 45.22 -10.78 56.00 34.50 0.56 10.16 QP 25 1.21 34.52 -11.48 46.00 23.80 0.56 10.16 Average 26 1.21 44.02 -11.98 56.00 33.30 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 Average 28 1.30 43.93 -12.07 56.00 33.21 0.56 10.16 QP	20	0.98	46.21	-9.79	56.00	35.50	0.56	10.15	QP
23	21	1.04	35.11	-10.89	46.00	24.40	0.56	10.15	Average
24 1.14 45.22 -10.78 56.00 34.50 0.56 10.16 QP 25 1.21 34.52 -11.48 46.00 23.80 0.56 10.16 Average 26 1.21 44.02 -11.98 56.00 33.30 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 Average 28 1.30 43.93 -12.07 56.00 33.21 0.56 10.16 QP	22	1.04	48.51	-7.49	56.00	37.80	0.56	10.15	QP
25 1.21 34.52 -11.48 46.00 23.80 0.56 10.16 Average 26 1.21 44.02 -11.98 56.00 33.30 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 Average 28 1.30 43.93 -12.07 56.00 33.21 0.56 10.16 QP	23	1.14	34.12	-11.88	46.00	23.40	0.56	10.16	Average
26 1.21 44.02 -11.98 56.00 33.30 0.56 10.16 QP 27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 Average 28 1.30 43.93 -12.07 56.00 33.21 0.56 10.16 QP	24	1.14	45.22	-10.78	56.00	34.50	0.56	10.16	QP
27 1.30 33.73 -12.27 46.00 23.01 0.56 10.16 Average 28 1.30 43.93 -12.07 56.00 33.21 0.56 10.16 QP	25	1.21	34.52	-11.48	46.00	23.80	0.56	10.16	Average
28 1.30 43.93 -12.07 56.00 33.21 0.56 10.16 QP	26	1.21	44.02	-11.98	56.00	33.30	0.56	10.16	QP
-	27	1.30	33.73	-12.27	46.00	23.01	0.56	10.16	Average
29 1.46 32.84 -13.16 46.00 22.10 0.57 10.17 Average	28	1.30	43.93	-12.07	56.00	33.21	0.56	10.16	QP
	29	1.46	32.84	-13.16	46.00	22.10	0.57	10.17	Average

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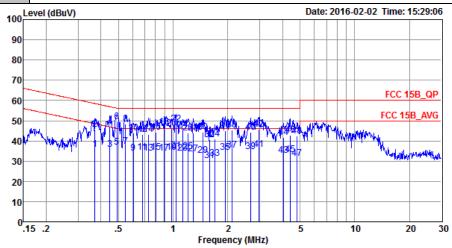
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHX2 Page Number : 17 of 28 Report Issued Date: Mar. 16, 2016 Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.2



Test Mode :	Mode 2	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type:	GSM850 Idle + Bluetooth Id	le + WLAN Idle + USB	Cable (Charging from Adapter)

+ Earphone + Camera (Back) + SIM2



Condition: FCC 15B_QP LISN_N_20160112 NEUTRAL

Project : (FC) 612803

Mode : Mode 2 : 353919027769821/353919027819824

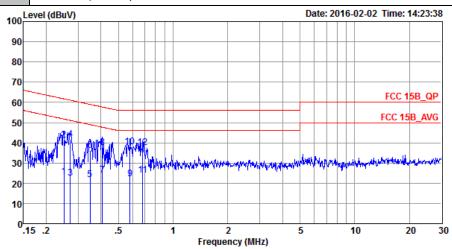
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
30	1.46	44.44	-11.56	56.00	33.70	0.57	10.17	QP
31	1.59	30.14	-15.86	46.00	19.39	0.57	10.18	Average
32	1.59	40.74	-15.26	56.00	29.99	0.57	10.18	QP
33	1.70	31.55	-14.45	46.00	20.80	0.57	10.18	Average
34	1.70	41.05	-14.95	56.00	30.30	0.57	10.18	QP
35	1.94	34.36	-11.64	46.00	23.60	0.57	10.19	Average
36	1.94	44.96	-11.04	56.00	34.20	0.57	10.19	QP
37	2.11	35.57	-10.43	46.00	24.81	0.57	10.19	Average
38	2.11	45.27	-10.73	56.00	34.51	0.57	10.19	QP
39	2.66	34.80	-11.20	46.00	24.00	0.60	10.20	Average
40	2.66	44.10	-11.90	56.00	33.30	0.60	10.20	QP
41	2.96	35.61	-10.39	46.00	24.80	0.60	10.21	Average
42	2.96	45.81	-10.19	56.00	35.00	0.60	10.21	QP
43	4.07	32.96	-13.04	46.00	22.10	0.63	10.23	Average
44	4.07	41.66	-14.34	56.00	30.80	0.63	10.23	QP
45	4.41	33.17	-12.83	46.00	22.30	0.64	10.23	Average
46	4.41	42.97	-13.03	56.00	32.10	0.64	10.23	QP
47	4.82	31.29	-14.71	46.00	20.40	0.65	10.24	Average
48	4.82	42.29	-13.71	56.00	31.40	0.65	10.24	QP

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Report Template No.: BU5-FC15B Version 1.2

Test Mode :	Mode 4	Temperature :	21~23 ℃				
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
	M/CDMA Band IV Idla + Pluotaath Idla + WI AN Idla + LICE Cable (Data Link with						

WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM2



Condition: FCC 15B_QP LISN_L_20160112 LINE

Project : (FC) 612803 : Mode 4 Mode

: 353919027769821/353919027819824 IMEI

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.25	23.39	-28.34	51.73	12.60	0.55	10.24	Average
2	0.25	41.19	-20.54	61.73	30.40	0.55	10.24	QP
3	0.27	22.48	-28.59	51.07	11.70	0.56	10.22	Average
4	0.27	41.88	-19.19	61.07	31.10	0.56	10.22	QP
5	0.35	21.64	-27.36	49.00	10.90	0.55	10.19	Average
6	0.35	36.04	-22.96	59.00	25.30	0.55	10.19	QP
7	0.41	24.12	-23.56	47.68	13.40	0.55	10.17	Average
8	0.41	37.52	-20.16	57.68	26.80	0.55	10.17	QP
9	0.58	22.27	-23.73	46.00	11.51	0.61	10.15	Average
10 *	0.58	37.87	-18.13	56.00	27.11	0.61	10.15	QP
11	0.68	24.10	-21.90	46.00	13.40	0.55	10.15	Average
12	0.68	37.60	-18.40	56.00	26.90	0.55	10.15	QP

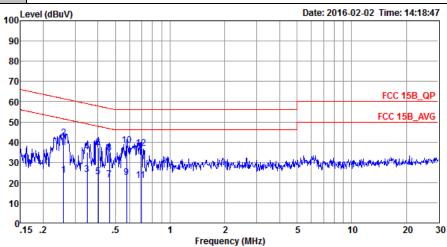
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Report Template No.: BU5-FC15B Version 1.2

Report No.: FC612803

Test Mode :	Mode 4	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type:	WCDMA Band IV Idle + Blu	etooth Idle + WLAN Id	le + USB Cable (Data Link with

Notebook) + Earphone + GPS Rx + SIM2



Condition: FCC 15B_QP LISN_N_20160112 NEUTRAL

Project : (FC)612803 Mode : Mode 4

IMEI : 353919027769821/353919027819824

		1	Over	Limit	Read	LISN	Cable	D1
	rreq	Level	Limit	Line	телет	Factor	Loss	Remark
	MHz	dBuV	dB	dBu∀	dBu∀	dB	dB	
1	0.26	23.50	-27.97	51.47	12.71	0.56	10.23	Average
2	0.26	41.90	-19.57	61.47	31.11	0.56	10.23	QP
3	0.35	23.95	-25.05	49.00	13.19	0.57	10.19	Average
4	0.35	35.15	-23.85	59.00	24.39	0.57	10.19	QP
5	0.40	23.02	-24.79	47.81	12.30	0.55	10.17	Average
6	0.40	37.22	-20.59	57.81	26.50	0.55	10.17	QP
7	0.46	21.35	-25.28	46.63	10.60	0.59	10.16	Average
8	0.46	34.85	-21.78	56.63	24.10	0.59	10.16	QP
9	0.58	22.34	-23.66	46.00	11.61	0.58	10.15	Average
10 *	0.58	38.24	-17.76	56.00	27.51	0.58	10.15	QP
11	0.69	21.10	-24.90	46.00	10.40	0.55	10.15	Average
12	0.69	37.00	-19.00	56.00	26.30	0.55	10.15	QP

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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		

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.
- 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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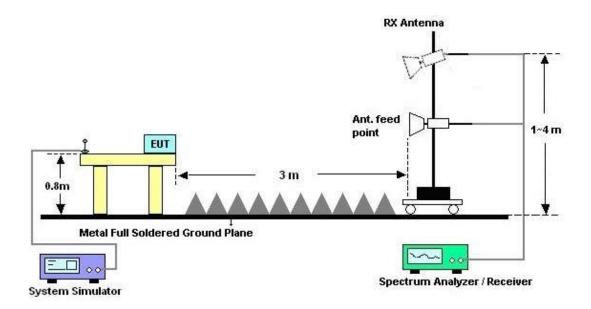
Report Template No.: BU5-FC15B Version 1.2

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



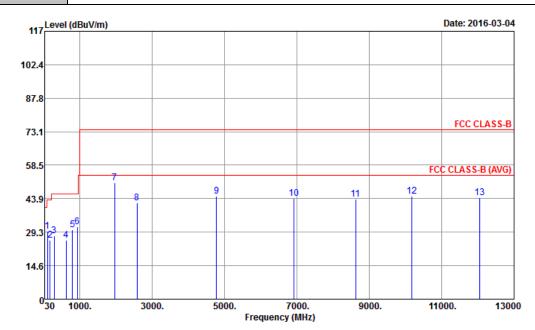
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHX2 Page Number : 22 of 28
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3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	23~25°C					
Test Engineer :	Jeff Yao	Relative Humidity :	48~52%					
Test Distance :	3m Polarization : Horizontal							
Eurotion Type	WCDMA Band II Idle + Blue	etooth Idle + WLAN Id	le + USB Cable (Charging from					
Function Type :	Adapter) + Earphone + Camera (Front) + SIM1							
Remark :	#7 is system simulator signa	l which can be ignored	1.					



Site : 03CH03-KS

Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 HORIZONTAL

Mode : Mode 1

IMEI : 353919027769599/353919027819592

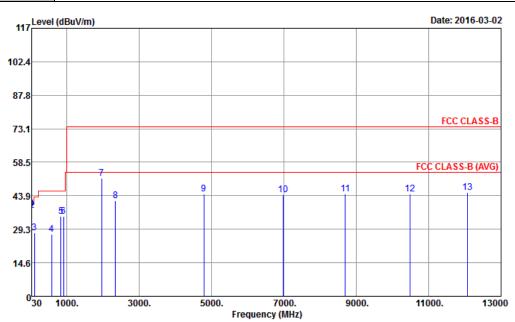
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	109.92	29.78	-13.72	43.50	41.29	13.08	1.14	25.73	100	0	Peak
2	179.04	25.69	-17.81	43.50	38.02	11.53	1.50	25.36			Peak
3	296.22	27.84	-18.16	46.00	37.21	13.97	1.71	25.05			Peak
4	619.90	25.61	-20.39	46.00	29.66	19.82	2.56	26.43			Peak
5	797.70	30.18	-15.82	46.00	31.04	22.44	2.88	26.18			Peak
6	936.30	31.58	-14.42	46.00	32.57	21.46	3.15	25.60			Peak
7	1960.00	50.68			72.99	31.74	4.59	58.64			Peak
8	2582.00	41.97	-32.03	74.00	62.72	32.77	5.31	58.83			Peak
9	4780.00	44.91	-29.09	74.00	61.73	34.37	7.43	58.62	100	0	Peak
10	6920.00	44.13	-29.87	74.00	56.59	36.13	9.21	57.80			Peak
11	8622.00	43.61	-30.39	74.00	53.83	36.34	10.99	57.55			Peak
12	10182.00	44.82	-29.18	74.00	53.39	38.25	12.12	58.94			Peak
13	12058.00	44.43	-29.57	74.00	52.59	39.48	12.65	60.29			Peak

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Report No.: FC612803

Test Mode :	Mode 1	Temperature :	23~25°C					
Test Engineer :	Jeff Yao	Relative Humidity :	48~52%					
Test Distance :	3m Polarization : Vertical							
Eurotion Type I	WCDMA Band II Idle + Blue	etooth Idle + WLAN Id	le + USB Cable (Charging from					
Function Type :	Adapter) + Earphone + Camera (Front) + SIM1							
Remark :	#7 is system simulator signal which can be ignored.							



Site

: 03CH03-KS : FCC CLASS-B 3m LF_ANT(23188)_151017 VERTICAL Condition

Mode

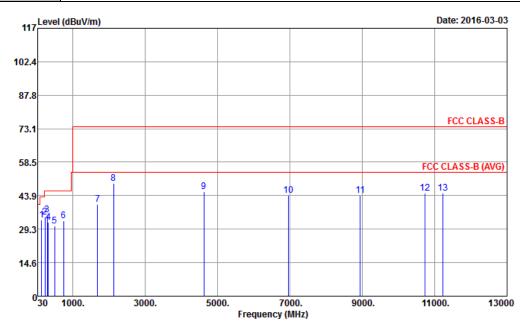
IMEI : 353919027769599/353919027819592

			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	31.35	38.01	-1.99	40.00	38.23	25.09	0.75	26.06	145	90	QP
2	34.59	37.33	-2.67	40.00	39.56	23.05	0.75	26.03	125	60	QP
3	109.11	27.58	-15.92	43.50	39.09	13.08	1.14	25.73			Peak
4	585.60	26.94	-19.06	46.00	31.19	19.66	2.52	26.43			Peak
5	839.70	35.02	-10.98	46.00	35.98	22.14	2.95	26.05			Peak
6	911.80	34.72	-11.28	46.00	35.87	21.55	3.08	25.78			Peak
7	1960.00	51.52			73.83	31.74	4.59	58.64			Peak
8	2340.00	41.74	-32.26	74.00	62.77	32.54	5.03	58.60			Peak
9	4788.00	44.77	-29.23	74.00	61.42	34.38	7.43	58.46			Peak
10	6980.00	44.38	-29.62	74.00	56.14	36.11	9.30	57.17			Peak
11	8698.00	44.66	-29.34	74.00	54.96	36.44	10.95	57.69			Peak
12	10494.00	44.50	-29.50	74.00	52.74	38.49	12.30	59.03			Peak
13	12062.00	45.17	-28.83	74.00	53.36	39.47	12.65	60.31	100	0	Peak

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FCC Test Report No.: FC612803

Test Mode :	Mode 4	Temperature :	23~25°C				
Test Engineer :	Jeff Yao	Relative Humidity :	48~52%				
Test Distance :	3m	Polarization :	Horizontal				
Function Type :	WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with						
Function Type :	Notebook) + Earphone + GPS Rx + SIM2						
Remark :	#8 is system simulator signal which can be ignored.						



Site : 03CH03-KS

Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 HORIZONTAL

Mode : Mode 4

IMEI : 353919027769599/353919027819592

	.		Over	Limit		Antenna			A/Pos	T/Pos	D
	Freq	Level	Limit	Line	rever	Factor	LOSS	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	140.70	33.35	-10.15	43.50	43.89	13.82	1.20	25.56	158	100	Peak
2	233.04	34.53	-11.47	46.00	46.05	12.12	1.54	25.18			Peak
3	296.22	35.50	-10.50	46.00	44.87	13.97	1.71	25.05			Peak
4	318.90	32.25	-13.75	46.00	41.38	14.35	1.71	25.19			Peak
5	498.10	30.51	-15.49	46.00	35.35	19.32	2.17	26.33			Peak
6	750.10	32.93	-13.07	46.00	35.04	21.39	2.77	26.27			Peak
7	1680.00	40.15	-33.85	74.00	64.89	29.29	4.36	58.39			Peak
8	2132.00	49.07			70.61	32.34	4.80	58.68			Peak
9	4628.00	45.70	-28.30	74.00	63.56	34.27	7.30	59.43	100	0	Peak
10	6956.00	44.14	-29.86	74.00	56.25	36.12	9.26	57.49			Peak
11	8940.00	44.15	-29.85	74.00	54.70	36.72	10.81	58.08			Peak
12	10740.00	44.99	-29.01	74.00	53.20	38.64	12.44	59.29			Peak
13	11226.00	45.13	-28.87	74.00	53.21	38.99	12.58	59.65			Peak

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23~25°C Test Mode: Mode 4 Temperature: Test Engineer: Jeff Yao **Relative Humidity:** 48~52% Test Distance: 3m Polarization: Vertical WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with **Function Type:** Notebook) + Earphone + GPS Rx + SIM2 Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2016-03-03 102.4 87.8 FCC CLASS-B 73.1 58.5 FCC CLASS-B (AVG) 43.9 29.3 14.6 0<mark>30</mark> 1000. 3000. 5000. 7000. 9000. 11000. 13000 Frequency (MHz) : 03CH03-KS Site Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 VERTICAL Mode : Mode 4 IMEI : 353919027769599/353919027819592 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark

dB dBuV/m

40.00

43.50

46.00

46.00

46.00

46.00

74.00

74.00

74.00

74.00

74.00

dBuV

29.50

40.23

40.78

40.95

36.25

36.67

72.64

62.28

62.85

56.79

52.67

52.82

52.42

dB/m

25.60

12.15

17.02

22.33

21.56

33.06

34.29

36.14

36.31

38.75

39.07

dB

0.75

1.54

2.08

2.95

3.08

4.80

5.77

7.33

9.21

11.07

12.53

12.59

dB

26.07

25.55

25.18

26.02

26.11

25.79

59.30

59.36

57.95

57.55

59.69

cm

100

deg

60 Peak

--- Peak

--- Peak

--- Peak

--- Peak

--- Peak

--- Peak

0 Peak

--- Peak

--- Peak

--- Peak

MHz dBuV/m

29.78 -10.22

29.46 -14.04

29.29 -16.71

34.03 -11.97

35.42 -10.58

35.52 -10.48

41.81 -32.19 45.11 -28.89

44.19 -29.81

42.50 -31.50

44.63 -29.37

11330.00 44.39 -29.61 74.00

51.10

30.27

234.39

440.70

819.40

910.40

2132.00

2948.00

4656.00

6904.00

8318.00

10906.00

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	May 04, 2015	Feb. 02, 2016	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Feb. 02, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Feb. 02, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Feb. 02, 2016	Oct. 23, 2016	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 10, 2015	Mar. 02, 2016~ Mar. 04, 2016	Sep. 09, 2016	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Jun. 05, 2015	Mar. 02, 2016~ Mar. 04, 2016	Jun. 04, 2016	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz~2GHz	Jan. 16, 2016	Mar. 02, 2016~ Mar. 04, 2016	Jan. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Jun. 25, 2015	Mar. 02, 2016~ Mar. 04, 2016	Jun. 24, 2016	Radiation (03CH03-KS)
Amplifier	Burgeon	BPA-530	102212	0.01MHz-3000 MHz	Aug. 10, 2015	Mar. 02, 2016~ Mar. 04, 2016	Aug. 09, 2016	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 24, 2015	Mar. 02, 2016~ Mar. 04, 2016	Oct. 23, 2016	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 02, 2016~ Mar. 04, 2016	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 02, 2016~ Mar. 04, 2016	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 02, 2016~ Mar. 04, 2016	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of	A E AD
Confidence of 95% (U = 2Uc(y))	4.5 dB

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