FCC Test Report

Report No.: FC5O1505

Testing Laboratory 2353

: 1 of 26

: Rev. 01

Report Issued Date: Nov. 17, 2015

Page Number

Report Version

APPLICANT : CT Asia (HK) Ltd.

EQUIPMENT: Smartphone

BRAND NAME : BLU

MODEL NAME : LIFE XL

FCC ID : YHLBLULIFEXL3

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Oct. 15, 2015 and testing was completed on Nov. 11, 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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5O1505	Rev. 01	Initial issue of report	Nov. 17, 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 13.15 dB at 0.530 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 3.13 dB at 32.430 MHz for Quasi-Peak

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1. General Description

1.1. Applicant

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.2. Manufacturer

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.3. Product Feature of Equipment Under Test

Product Feature			
Equipment	Smartphone		
Brand Name	BLU		
Model Name	LIFE XL		
FCC ID	YHLBLULIFEXL3		
	GSM/GPRS/EGPRS/WCDMA/HSPA/		
EUT supports Radios application	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		
IMELCONO	Conduction: 353919027693070/353919027693071		
IMEI Code	Radiation: 353919027692676		
HW Version	V1.0		
SW Version	BLU_S5260AP_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 subjective to this standard

Product Specification subjective to this standard			
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz		
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS: PIFA Antenna		
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK/(MCS 5-9): 8PSK WCDMA: QPSK (Uplink) WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (16QAM uplink is not supported) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.0 LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps): \pi /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	
Took Site No	Sporton Site No.	
Test Site No.	CO01-SZ	

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
	No. 3 Building, the third floor of sout	th, 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	

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	EMI	
		AC	RE<1G	RE≥1G	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	\boxtimes	
2.	Data application transferred mode	\boxtimes	\boxtimes	\square	
۷.	(EUT connected with notebook)				

Abbreviations:

EMI AC: AC conducted emissions

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

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

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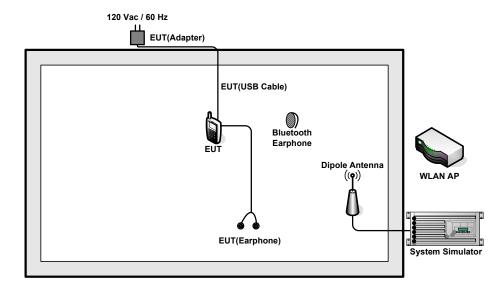
Test Items	EUT Configure Mode	Function Type
		Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1 <fig.1></fig.1>
AC Conducted	4/0	Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM2 <fig.1></fig.1>
Emission	1/2	Mode 3: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 + SD Card <fig.2></fig.2>
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM1 <fig.1></fig.1>
	z 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: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM2 <fig.1></fig.1>
Emissions < 1GHz		Mode 3: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 + SD Card <fig.2></fig.2>
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM1 <fig.1></fig.1>
Radiated	4.0	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM1 <fig.1></fig.1>
Emissions ≥ 1GHz	1/2	Mode 2: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 + SD Card <fig.2></fig.2>

Remark:

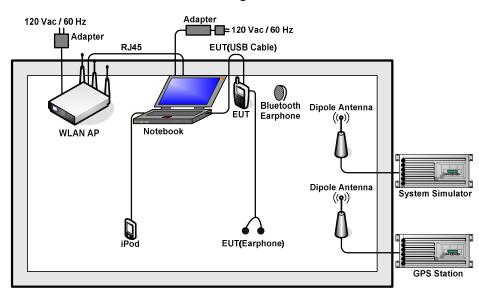
- 1. The worst case of AC is mode 4, and the USB Link mode of AC is mode 3, the test data of these modes were reported.
- 2. The worst case of RE < 1G is mode 1, and the USB Link mode of RE is mode 3, the test data of these modes were reported.
- 3. Link with Notebook means data application transferred 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.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	E540	PRC4	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
6.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
7.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
8.	iPod	Apple	A1199	FCC DoC	N/A	N/A
9.	SD Card	SanDisk	4G class 4	FCC DoC	Unshielded, 1.2 m	N/A
10.	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 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

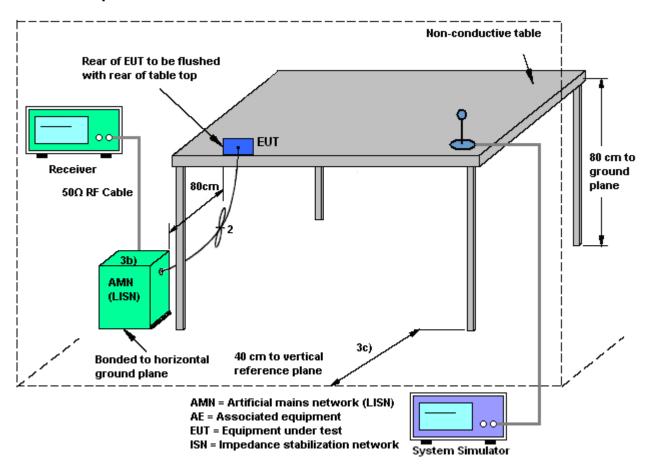
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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.

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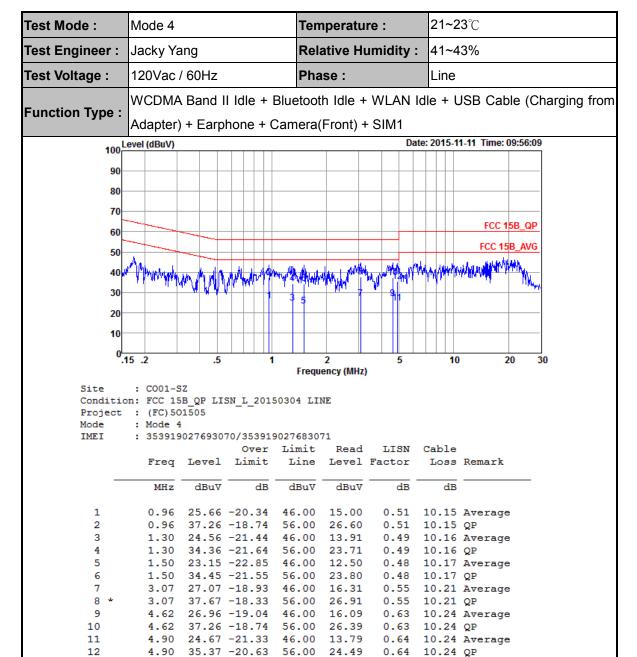
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3.1.4 Test Setup



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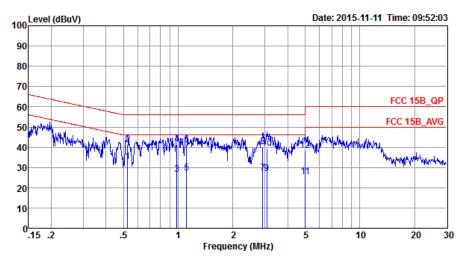
3.1.5 Test Result of AC Conducted Emission



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SPORTON LAB.	FCC Test Report

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 II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from						
Function Type :	Adapter) + Earphone + Camera(Front) + SIM1						



Site : CO01-SZ Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL

Project : (FC) 501505

Mode : Mode 4 IMEI : 353919027693070/353919027683071

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∇	dB	dB	
1 *	0.53	32.85	-13.15	46.00	22.10	0.60	10.15	Average
2	0.53	41.35	-14.65	56.00	30.60	0.60	10.15	QP
3	0.98	26.41	-19.59	46.00	15.70	0.56	10.15	Average
4	0.98	41.51	-14.49	56.00	30.80	0.56	10.15	QP
5	1.11	27.42	-18.58	46.00	16.70	0.56	10.16	Average
6	1.11	41.22	-14.78	56.00	30.50	0.56	10.16	QP
7	2.92	27.41	-18.59	46.00	16.60	0.60	10.21	Average
8	2.92	40.11	-15.89	56.00	29.30	0.60	10.21	QP
9	3.07	26.82	-19.18	46.00	16.00	0.61	10.21	Average
10	3.07	39.62	-16.38	56.00	28.80	0.61	10.21	QP
11	5.00	25.49	-24.51	50.00	14.60	0.65	10.24	Average
12	5.00	38.29	-21.71	60.00	27.40	0.65	10.24	QP

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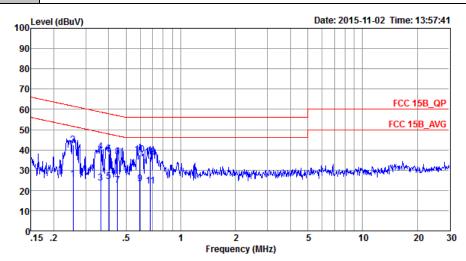
Test Mode :	Mode 3	Mode 3			peratu	re :	21~2	21~23℃		
Test Engineer :	Jacky Ya	ng		Rela	ative Hu	umidity:	41~4	41~43%		
Test Voltage :	120Vac /	60Hz		Pha	se:		Line	Line		
Function Type :	WCDMA	Band I	V Idle +	Bluetoo	etooth Idle + WLAN Idle + USB Cable (Data Link wi					
	Notebool	k) + Ear	phone +	· GPS R	x + SIM	1 + SD C	ard			
100 ^l	_evel (dBuV)					Date	e: 2015-1	1-02 Time: 14:00):33	
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80-										
70										
70								ECC 4ED /	DD	
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20										
10										
0										
٥.	15 .2	.5	1		2	5	10	20	30	
				Frequ	ency (MHz)				
Site	: CO01-S				-					
	on: FCC 15 : (FC)50		SN_L_201	50304 LI	NE					
FIOJECU	. (10)30	,1303								
IMEI	: 353919	0276930	70/35391	90276830	71					
				Limit	Read	LISN	Cable			
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark		
_	MHz	dBuV	dB	dBu₹	dBu₹	dB	dB		_	
1	0.25	26.89	-24.80	51.69	16.10	0.55	10.24	Average		
2	0.25		-20.30				10.24	_		
3	0.38		-26.37					Average		
4	0.38	35.42	-22.97	58.39	24.69	0.55	10.18	QP		
5	0.41		-24.86					Average		
6	0.41		-21.46							
7	0.46		-22.58		13.40			Average		
8 *	0.46		-19.88							
9	0.59		-22.74					Average		
10	0.59		-20.54				10.15			
11	0.70		-22.11					Average		
12	0.70	35.99	-20.01	56.00	25.30	0.54	10.15	QP		

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FCC Test Report	Report No. : FC5O1505

Test Mode :	Mode 3	Temperature :	21~23 ℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral

WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1 + SD Card



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL

Project : (FC) 501505

IMEI : 353919027693070/353919027683071

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∇	dB	dBu∀	dBu∀	dB	dB	
1	0.25	25.50	-26.10	51.60	14.70	0.56	10.24	Average
2	0.25	42.40	-19.20	61.60	31.60	0.56	10.24	QP
3	0.36	23.45	-25.24	48.69	12.71	0.56	10.18	Average
4	0.36	38.95	-19.74	58.69	28.21	0.56	10.18	QP
5	0.40	24.22	-23.59	47.81	13.50	0.55	10.17	Average
6	0.40	38.12	-19.69	57.81	27.40	0.55	10.17	QP
7	0.45	22.34	-24.55	46.89	11.60	0.58	10.16	Average
8	0.45	36.64	-20.25	56.89	25.90	0.58	10.16	QP
9	0.59	23.43	-22.57	46.00	12.70	0.58	10.15	Average
10 *	0.59	37.53	-18.47	56.00	26.80	0.58	10.15	QP
11	0.68	22.01	-23.99	46.00	11.30	0.56	10.15	Average
12	0.68	36.41	-19.59	56.00	25.70	0.56	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:

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

3.2.2. Measuring Instruments

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

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 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.

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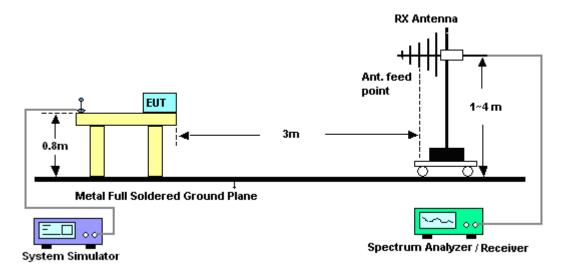
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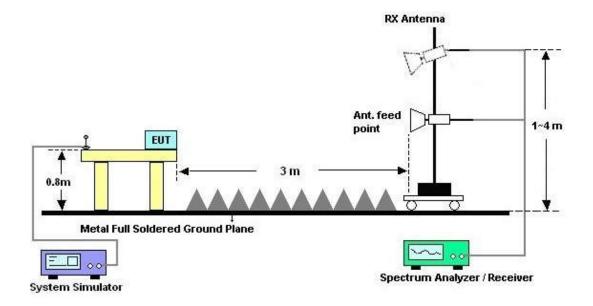
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



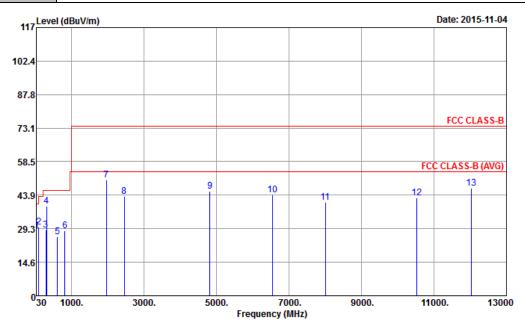
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	23~25°C					
Test Engineer :	Leo Liao	Relative Humidity :	48~52%					
Test Distance :	3m	Polarization :	Horizontal					
Eupotion Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from							
Function Type :	Adapter) + Earphone + Camera(Back) + SIM1							
Remark :	#7 is system simulator signal which can be ignored.							



Site : 03CH01-SZ

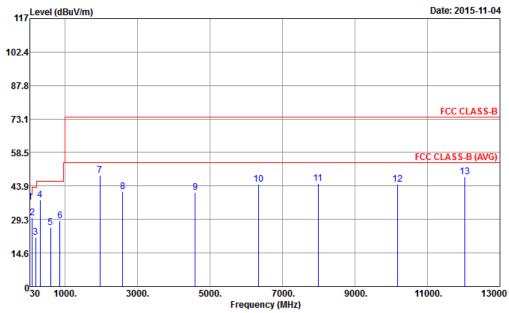
Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 HORIZONTAL

Project : (FC) 501505 Mode : Mode 1 IMEI : 353919027692676

			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		deg	
1	30.00	28.20	-11.80	40.00	27.97	25.60	0.70	26.07			Peak
2	97.50	30.04	-13.46	43.50	43.33	11.46	1.04	25.79			Peak
3	296.76	28.73	-17.27	46.00	38.07	14.00	1.71	25.05			Peak
4	316.80	39.11	-6.89	46.00	48.12	14.33	1.83	25.17	100	0	Peak
5	614.30	25.84	-20.16	46.00	29.97	19.78	2.52	26.43			Peak
6	818.00	28.28	-17.72	46.00	29.18	22.34	2.88	26.12			Peak
7	1960.00	50.43			72.76	31.74	4.57	58.64			Peak
8	2456.00	43.41	-30.59	74.00	64.31	32.67	5.17	58.74			Peak
9	4816.00	45.73	-28.27	74.00	62.19	34.39	7.45	58.30			Peak
10	6554.00	43.87	-30.13	74.00	56.85	36.28	8.82	58.08			Peak
11	8006.00	40.63	-33.37	74.00	50.91	36.50	11.09	57.87			Peak
12	10528.00	42.72	-31.28	74.00	50.97	38.51	12.30	59.06			Peak
13	12036.00	46.78	-27.22	74.00	54.92	39.49	12.65	60.28	160	200	Peak

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Test Mode :	Mode 1	Temperat	ure :	23~25°C						
Test Engineer :	Leo Liao	Relative I	Humidity :	48~52%						
Test Distance :	3m	Polarizati	on :	Vertical						
Function Time	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from									
Function Type :	Adapter) + Earphone + Camera(Back) + SIM1									
Remark :	#7 is system simulator sign	al which ca	n be ignored	l.						
117 Level	117 Level (dBuV/m) Date: 2015-11-04									



Site : 03CH01-SZ

Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 VERTICAL
Project : (FC) 501505

Project : (FC) 5O1505 Mode : Mode 1 IMEI : 353919027692676

			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	32.43	36.87	-3.13	40.00	38.15	24.07	0.70	26.05	100	215	QP
2	97.77	29.83	-13.67	43.50	43.12	11.46	1.04	25.79			Peak
3	192.27	21.67	-21.83	43.50	34.02	11.56	1.38	25.29			Peak
4	316.80	37.73	-8.27	46.00	46.74	14.33	1.83	25.17			Peak
5	603.10	25.77	-20.23	46.00	29.97	19.72	2.52	26.44			Peak
6	856.50	28.52	-17.48	46.00	29.54	21.99	2.99	26.00			Peak
7	1960.00	48.57			70.90	31.74	4.57	58.64			Peak
8	2594.00	41.23	-32.77	74.00	61.93	32.78	5.35	58.83			Peak
9	4596.00	41.16	-32.84	74.00	59.10	34.26	7.27	59.47			Peak
10	6344.00	44.59	-29.41	74.00	58.66	36.13	8.66	58.86			Peak
11	7980.00	44.94	-29.06	74.00	55.39	36.49	11.02	57.96			Peak
12	10176.00	44.65	-29.35	74.00	53.23	38.25	12.11	58.94			Peak
13	12040.00	47.76	-26.24	74.00	55.90	39.49	12.65	60.28	150	132	Peak

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23~25°C Test Mode: Mode 3 Temperature: Test Engineer: Leo Liao **Relative Humidity:** 48~52% Test Distance: 3m Polarization: Horizontal WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1 + SD Card Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2015-11-06 102.4 87.8 FCC CLASS-B 73.1 58.5 FCC CLASS-B (AVG) 10 43.9 29.3 14.6 030 1000. 3000. 5000. 7000. 9000. 11000. 13000 Frequency (MHz) Site : 03CH01-SZ : FCC CLASS-B 3m LF_ANT(23188)_151017 HORIZONTAL Condition Project (FC) 5O1505 Mode Mode 3 IMEI : 353919027692676 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Remark Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB deg --- Peak 33.24 30.54 -9.46 40.00 31.82 24.07 0.70 26.05 ---29.81 -13.69 43.50 41.96 Peak 199.56 11.60 1.50 25.25 37.39 -8.61 30 Peak 100 398.00 32.74 -13.26 46.00 41.14 15.37 2.03 25.80 --- Peak 597.50 30.13 -15.87 46.00 34.36 19.69 2.52 26.44 --- Peak 797.00 30.76 -15.24 46.00 --- Peak 31.62 22.44 2.88 26.18 2132.00 50.90 72.47 32.34 4.77 58.68 --- Peak 2456.00 42.41 -31.59 74.00 63.31 Peak 4816.00 45.73 -28.27 74.00 62.19 34.39 7.45 58.30 Peak ------ Peak 44.29 -29.71

74.00

74.00

74.00

74.00

41.81 -32.19

43.72 -30.28

47.26 -26.74

60.04

51.93

51.97

55.46

35.61

36.23

38.51

39.46

8.32

11.06

12.30

12.67

59.68

57.41

59.06

60.33

--- Peak

230 Peak

Peak

10

11

5862.00

8440.00

10528.00

12102.00

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23~25°C Test Mode: Mode 3 Temperature: Test Engineer: Leo Liao **Relative Humidity:** 48~52% Test Distance: Polarization: 3m Vertical WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1 + SD Card Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2015-11-06 102.4 87.8 FCC CLASS-B 73.1 58.5 FCC CLASS-B (AVG) 13 10 12 29.3 14.6 0<mark>30</mark> 1000. 3000. 9000. 11000. 13000 5000. 7000. Frequency (MHz) : 03CH01-SZ Site Condition : FCC CLASS-B 3m LF ANT(23188) 151017 VERTICAL Project : (FC) 5O1505 Mode Mode 3 IMEI : 353919027692676 Over Limit ReadAntenna 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 cmdeg 32.16 30.02 -9.98 40.00 26.05 100 200 Peak 199.83 30.71 -12.79 30.53 -15.47 43.50 42.86 11.60 1.50 25.25 --- Peak ------ Peak 298.65 46.00 39.79 14.07 1.71 25.04 30.74 -15.26 498.10 46.00 35.58 19.32 26.33 2.17 --- Peak 33.15 -12.85 715.10 46.00 36.16 20.62 2.71 26.34 --- Peak 796.30 31.53 -14.47 46.00 32.42 22.41 Peak 2132.00 49.65 71.22 32.34 4.77 58.68 ------ Peak 2594.00 41.23 -32.77 74.00 61.93 32.78 5.35 58.83 --- Peak 4762.00 41.16 -32.84 74.00 58.17 34.36 7.41 58.78 --- Peak

10

6576.00

8502.00

11630.00

10528.00

45.10 -28.90

45.93 -28.07

44.99 -29.01

47.91 -26.09

74.00

74.00

74.00

74.00

58.10

56.03

53.24

55.92

36.27

36.20

38.51

39.27

8.82

11.06

12.30

12.60

58.09

59.06

59.88

152

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Peak

Peak

--- Peak

156 Peak

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. 02, 2015~ Nov. 11, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz;M ax 30dBm	Jun. 07, 2015	Nov. 02, 2015~ Nov. 11, 2015	Jun. 06, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Oct. 17, 2015	Nov. 02, 2015~ Nov. 11, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 17, 2015	Nov. 02, 2015~ Nov. 11, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz ~3000MHz / 30 dB	Jan. 28, 2015	Nov. 02, 2015~ Nov. 11, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5G Hz	Jan. 28, 2015	Nov. 02, 2015~ Nov. 11, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 18. 2015	Nov. 02, 2015~ Nov. 11, 2015	Jul. 17. 2016	Radiation (03CH01-SZ
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Nov. 02, 2015~ Nov. 11, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 02, 2015~ Nov. 11, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 02, 2015~ Nov. 11, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Nov. 04, 2015~ Nov. 06, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb.02, 2015	Nov. 04, 2015~ Nov. 06, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Nov. 04, 2015~ Nov. 06, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Aug. 07, 2015	Nov. 04, 2015~ Nov. 06, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20,2015	Nov. 04, 2015~ Nov. 06, 2015	Oct. 19, 2016	Conduction (CO01-SZ)
Radio communication analyzer	Anritsu	MT8820C	6201432833	GSM/WCDMA/L TE	Jan.28.2015	Nov. 04, 2015~ Nov. 06, 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))	

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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