FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : BLU WIN JR LTE

FCC ID : YHLBLUWINJRLTE

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Feb. 06, 2015 and testing was completed on Mar. 16, 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.

Reviewed by: Louis Wu / Manager

Louis Wu

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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Report No.: FC520606

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC520606	Rev. 01	Initial issue of report	Apr. 29, 2015
FC520606	Rev. 02	Update the report for revising model name.	May 04, 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 9.36 dB at 0.460 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 3.12 dB at 256.530 MHz for Quasi-Peak

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1. General Description

1.1. Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2. Manufacturer

Shanghai Huaqin Telecom Technology Co., Ltd.

NO.1 Building, 399 Keyuan Road, Zhangjiang Hi-Tech Park, Pudong New Area, Shanghai, China 201203

1.3. Product Feature of Equipment Under Test

Product Feature					
Equipment Mobile phone					
Brand Name	BLU				
Model Name	BLU WIN JR LTE				
FCC ID	YHLBLUWINJRLTE				
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/ LTE/WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE				
HW Version	QL650_Mh06c				
SW Version 00130.04717.20001.15007					
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				
	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			
Tx Frequency	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz			
	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz			
	LTE Band 17 : 706.5 MHz ~ 713.5 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			
	WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz			
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz			
Rx Frequency	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz			
	LTE Band 7 : 2622.5MHz ~ 2687.5 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 : Internal Antenna			
Antenna Type	WLAN : Internal Antenna			
Antenna Type	Bluetooth : Internal Antenna			
	GPS : Internal Antenna			
	GSM: GMSK			
	GPRS: GMSK			
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK			
	WCDMA: QPSK (Uplink)			
	HSDPA: QPSK (Uplink)			
	HSUPA: QPSK (Uplink)			
	HSPA+ : 16QAM (Downlink Only)			
Type of Modulation	LTE: QPSK / 16QAM			
	802.11b: DSSS (DBPSK / DQPSK / CCK)			
	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)			
	Bluetooth LE : GFSK			
	Bluetooth (1Mbps) : GFSK			
	Bluetooth (2Mbps) : 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			
Toot Site Leastion	Town, Nanshan District, Shenzhen, Guangdong, P. R. China			
Test Site Location	TEL: +86-755-8637-9589			
	FAX: +86-755-8637-9595			
Took Site No	Sporton Site No.			
Test Site No.	CO01-SZ			

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
	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			
Took Cita No	Sporton Site No.	FCC/IC Registration No.		
Test Site No.	03CH01-SZ	831040/4086F-1		

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
- IC ICES-003 Issue 5
- IC RSS-Gen Issue 4

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

Abbreviations:

EMI AC: AC conducted emissions

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

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

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

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

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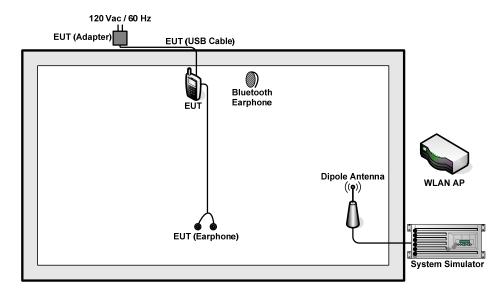
Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4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

Remark:

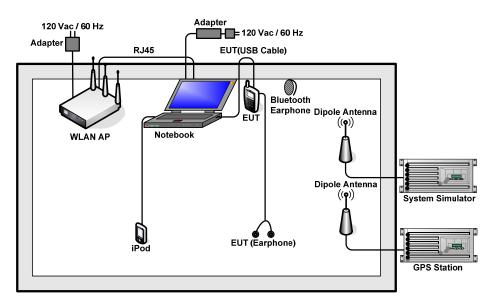
- 1. The worst case of AC is mode 1; and the USB Link mode of RE is mode 3, the test data of these modes are reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode was reported.
- **3.** Data Link with Notebook means data application transferred mode between EUT and Notebook.

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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	R&S	CMU 200	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-615	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-815	KA2IR815A1	N/A	Unshielded, 1.8 m
5.	WLAN AP	ASUSTek	RT-AC66U	MSQ- RTAC66U	N/A	Unshielded, 2.7 m
6.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
7.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
8.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
9.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
10.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
11.	iPod	Apple	MC525ZP/A	FCC DoC	Shielded, 1.0 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 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 Laptop and EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Execute "Windows Media 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.
- 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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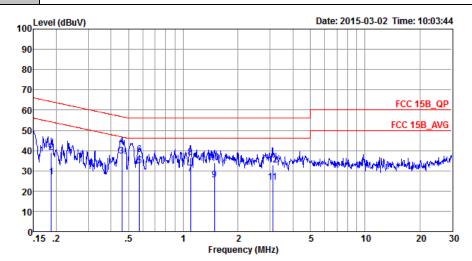
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22℃	
Test Engineer :	Jack Tian	Relative Humidity: 41~42%		
Test Voltage :	120Vac / 60Hz	Phase :	Line	
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)			
Function Type :	+ Earphone + Camera + SIN	<i>1</i> 1		



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC)520606 Mode : Mode 1

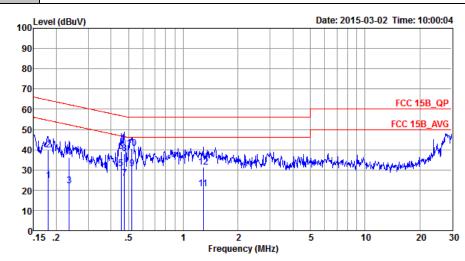
	1	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBu∇	dB	dBu∀	dBu∀	dB	dB	
1		0.19		-27.22	54.15	16.40	0.22		Average
2	(0.19	39.13	-25.02	64.15	28.60	0.22	10.31	QP
3	* (0.46	37.35	-9.36	46.71	26.90	0.29	10.16	Average
4	(0.46	41.95	-14.76	56.71	31.50	0.29	10.16	QP
5	(0.57	32.40	-13.60	46.00	22.00	0.25	10.15	Average
6	(0.57	37.90	-18.10	56.00	27.50	0.25	10.15	QP
7	:	1.09	28.31	-17.69	46.00	17.90	0.25	10.16	Average
8	:	1.09	36.41	-19.59	56.00	26.00	0.25	10.16	QP
9	:	1.49	25.41	-20.59	46.00	15.00	0.24	10.17	Average
10		1.49	33.81	-22.19	56.00	23.40	0.24	10.17	QP
11	;	3.11	24.43	-21.57	46.00	13.90	0.32	10.21	Average
12	;	3.11	32.73	-23.27	56.00	22.20	0.32	10.21	QP

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Test Mode:	Mode 1	Temperature :	21~22 ℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type:	GSM850 Idle + Bluetooth Id	le + WLAN Idle + USB	Cable (Charging from Adapter)

+ Earphone + Camera + SIM1



: CO01-SZ Site

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

Project : (FC)520606 Mode : Mode 1

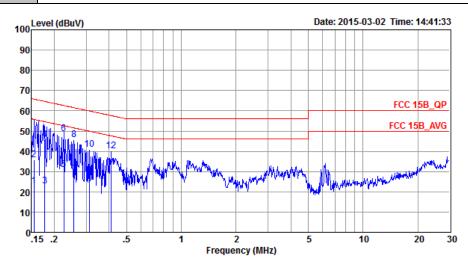
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.18	24.74	-29.72	54.46	14.10	0.32	10.32	Average
2	0.18	39.74	-24.72	64.46	29.10	0.32	10.32	QP
3	0.24	22.29	-29.97	52.26	11.69	0.34	10.26	Average
4	0.24	36.09	-26.17	62.26	25.49	0.34	10.26	QP
5	0.45	30.46	-16.34	46.80	19.90	0.40	10.16	Average
6	0.45	39.26	-17.54	56.80	28.70	0.40	10.16	QP
7	0.47	25.66	-20.79	46.45	15.09	0.41	10.16	Average
8	0.47	37.96	-18.49	56.45	27.39	0.41	10.16	QP
9	0.52	30.45	-15.55	46.00	19.91	0.39	10.15	Average
10 *	0.52	40.75	-15.25	56.00	30.21	0.39	10.15	QP
11	1.29	20.81	-25.19	46.00	10.31	0.34	10.16	Average
12	1.29	31.21	-24.79	56.00	20.71	0.34	10.16	QP

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Test Mode :	Mode 3	Temperature :	21~22 ℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
	WCDMA Band IV Idle + US	B Cable (Data Link wi	th Notebook) + Bluetooth Idle +

Function Type: WLAN Idle + Earphone + GPS Rx + SIM1



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC)520606 Mode : Mode 3

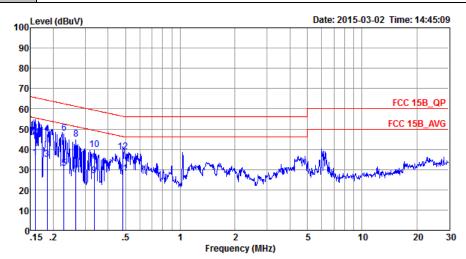
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu₹	dBuV	dB	dB	
1	0.15	22.87	-32.87	55.74	12.30	0.22	10.35	Average
2	0.15	35.77	-29.97	65.74	25.20	0.22	10.35	QP
3	0.18	23.04	-31.55	54.59	12.50	0.22	10.32	Average
4	0.18	45.84	-18.75	64.59	35.30	0.22	10.32	QP
5	0.23	31.00	-21.61	52.61	20.50	0.23	10.27	Average
6 *	0.23	48.80	-13.81	62.61	38.30	0.23	10.27	QP
7	0.26	28.88	-22.68	51.56	18.40	0.24	10.24	Average
8	0.26	45.88	-15.68	61.56	35.40	0.24	10.24	QP
9	0.31	28.26	-21.67	49.93	17.80	0.26	10.20	Average
10	0.31	41.06	-18.87	59.93	30.60	0.26	10.20	QP
11	0.41	32.15	-15.49	47.64	21.70	0.28	10.17	Average
12	0.41	40.35	-17.29	57.64	29.90	0.28	10.17	QP

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Test Mode :	Mode 3	Temperature :	21~22 ℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
F	WCDMA Band IV Idle + US	B Cable (Data Link wi	th Notebook) + Bluetooth Idle +

Function Type: WLAN Idle + Earphone + GPS Rx + SIM1



: CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

Project : (FC)520606 Mode : Mode 3

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBuV	dB	dB	
1	0.16	35.77	-19.75	55.52	25.09	0.33	10.35	Average
2	0.16	46.27	-19.25	65.52	35.59	0.33	10.35	QP
3	0.19	35.13	-19.11	54.24	24.50	0.32	10.31	Average
4	0.19	47.43	-16.81	64.24	36.80	0.32	10.31	QP
5	0.23	30.70	-21.78	52.48	20.11	0.33	10.26	Average
6 *	0.23	48.00	-14.48	62.48	37.41	0.33	10.26	QP
7	0.27	27.38	-23.87	51.25	16.80	0.35	10.23	Average
8	0.27	44.98	-16.27	61.25	34.40	0.35	10.23	QP
9	0.34	26.96	-22.35	49.31	16.40	0.37	10.19	Average
10	0.34	39.76	-19.55	59.31	29.20	0.37	10.19	QP
11	0.48	27.96	-18.31	46.27	17.39	0.41	10.16	Average
12	0.48	38.66	-17.61	56.27	28.09	0.41	10.16	QP

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Test of Radiated Emission Measurement 3.2.

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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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.
- 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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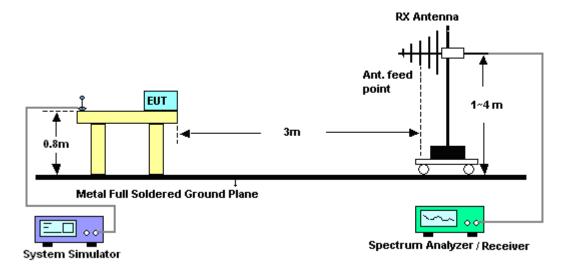
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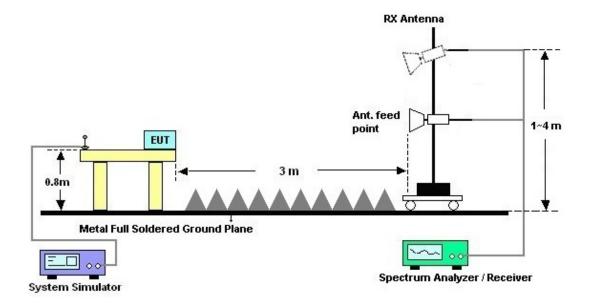
CC Test Report No. : FC520606

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

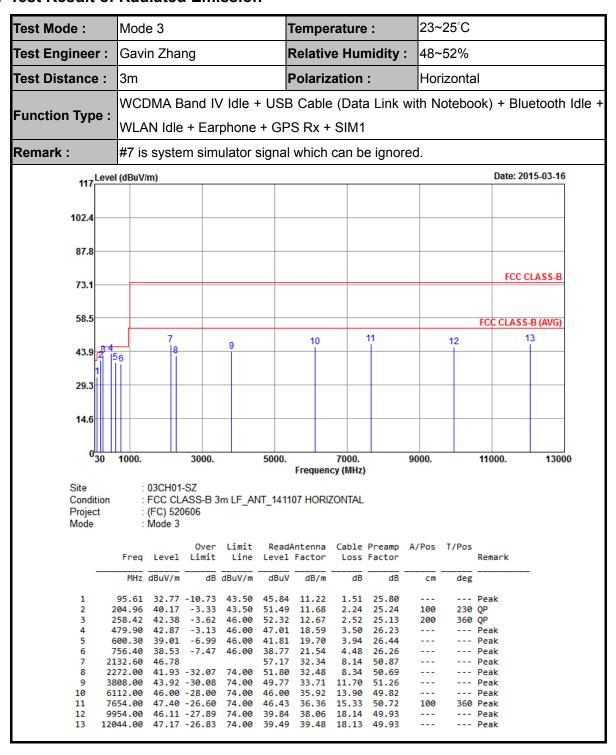


For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



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人	
SPORTON LAB.	FCC Test Report

Test Mode :	Mode 3			Tempe	rature	:	23~	·25°C			
Test Engineer :	Gavin Zhar	ng		Relativ	e Hun	nidity :	48~	48~52%			
Test Distance :	3m			Polariz	ation	:	Ver	tical			
Function Type :		and IV Idle + + Earphone ·			,		vith N	ith Notebook) + Bluetooth Idle			ldle +
Remark :	#8 is system simulator signal which can be ignored.										
117 Level	(dBuV/m)								Date: 2	015-03-16	
102.4											
87.8											
73.1									FCC	CLASS-B	
58.5	8			1()	11		12	FCC CLAS	S-B (AVG)	
43.9	7		9								
29.3											
14.6											
030	1000.	3000.	5000.	Frequen	7000. cy (MHz)		9000.		11000.	1300	0
Site Condition Project Mode	: 03CH01- : FCC CL/ : (FC) 520 : Mode 3	ASS-B 3m LF_AN	T_1411	107 VERT	ICAL						
	Freq Level		Level	Antenna Factor	Loss	Factor	A/Pos	T/Pos	Remark	_	
	MHz dBuV/m	dB dBuV/m	dBuV		dB	dB	cm	deg			
2 1 3 2 4 4 5 6 6 7	96.05 37.54 56.53 42.88 79.90 42.53 10.80 42.65 71.80 42.47	-9.00 40.00 -5.96 43.50 -3.12 46.00 -3.47 46.00 -3.35 46.00 -3.53 46.00	49.05 52.86 46.67 45.31 42.30	11.58 12.63 18.59 19.76 21.88	2.18 2.52 3.50 4.01 4.52	26.02 25.27 25.13 26.23 26.43 26.23	100	169 289	Peak Peak QP		
8 21 9 46 10 65 11 83	32.60 47.10 52.00 43.23 02.00 46.34 16.00 47.42	-30.77 74.00 -27.66 74.00 -26.58 74.00	57.49 47.47 45.95 44.62	32.34 34.29 36.30 36.31	8.14 12.76 14.41 16.23	50.32 49.74	100	 360	Peak Peak Peak Peak Peak		
		-27.12 74.00 -28.26 74.00							Peak Peak		

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristic s	Calibration Date	Test Date	Due Date	Remark
EMI TEST Receiver	R&S	ESCI7	100768	9kHz~3GHz	May 04, 2014	Mar. 02, 2015	May 03, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Feb. 02, 2015	Mar. 02, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Feb. 02, 2015	Mar. 02, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Va c	Sep. 29, 2014	Mar. 02, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Mar. 16, 2015	May 25, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Mar. 16, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Mar. 16, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Mar. 16, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Mar. 16, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	MITEQ	AMF-7D-00101 800-30-10P-R	1707137	1GHz~18GHz	May 08, 2014	Mar. 16, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Mar. 16, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 16, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 16, 2015	NCR	Radiation (03CH01-SZ)

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5. Uncertainty of Evaluation

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of	2.3dB
Confidence of 95% (U = 2Uc(y))	2.5uB

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

Measuring Uncertainty for a Level of	0.040
Confidence of 95% (U = 2Uc(y))	3.9dB

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