

# **FCC Test Report**

APPLICANT	:	Brightstar Corporation
EQUIPMENT	:	mobile phone
BRAND NAME	:	Αννίο
MODEL NAME	:	Avvio 821S / Avvio 821 / MEU SN81
MARKETING NAME	:	Avvio 821S / Avvio 821 / MEU SN81
FCC ID	:	WVBA821X
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	Certification

The product was received on Jan. 30, 2013 and completely tested on Mar. 17, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the 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:

Jones Tsai / Manager



# SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

SPORTON INTERNATIONAL (SHENZHEN) INC. TEL : 86-755- 3320-2398 FCC ID : WVBA821X Page Number: 1 of 26Report Issued Date: May 06, 2013Report Version: Rev. 01



# TABLE OF CONTENTS

RE	VISIOI	N HISTORY	.3
SU	MMAR	RY OF TEST RESULT	.4
1.	GENE	ERAL DESCRIPTION	.5
	1.1.	Applicant	.5
	1.2.	Manufacturer	
	1.3.	Feature of Equipment Under Test	
	1.4.	Product Specification of Equipment Under Test	
	1.5.	Test Site	
	1.6.	Applied Standards	.7
2.	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	.8
	2.1.	Test Mode	. 8
	2.2.	Connection Diagram of Test System	10
	2.3.	Support Unit used in test configuration and system	
	2.4.	Test Software	12
3.	TEST	RESULT	13
	3.1.	Test of AC Conducted Emission Measurement	13
	3.2.	Test of Radiated Emission Measurement	19
4.	LIST	OF MEASURING EQUIPMENT	25
5.	UNCE	ERTAINTY OF EVALUATION	26
AP	PEND	IX A. PHOTOGRAPHS OF EUT	

**APPENDIX B. SETUP PHOTOGRAPHS** 



# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC313005	Rev. 01	Initial issue of report	May 06, 2013



# SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	7.2.4	AC Conducted Emission	< 15.107 limits < RSS-Gen table 2 limits	PASS	Under limit 8.19 dB at 0.640 MHz
3.2	15.109	7.2.3.2	Radiated Emission	< 15.109 limits or < RSS-Gen table 1 limits (Section 6)	PASS	Under limit 3.06 dB at 130.880 MHz for Quasi-Peak



# 1. General Description

### 1.1. Applicant

#### **Brightstar Corporation**

9725 NW 117th Ave., Miami, Florida, United States

# 1.2. Manufacturer

#### KCMobile Co., Ltd.

#502, Ace techno tower 8th,191-7 Guro-dong, Guro-Gu, Seoul, South Korea

# 1.3. Feature of Equipment Under Test

	Product Feature
Equipment	mobile phone
Brand Name	Avvio
Model Name	Avvio 821S / AVVIO 821 / MEU SN81
Marketing Name	Avvio 821S / AVVIO 821 / MEU SN81
FCC ID	WVBA821X
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/Bluetooth
HW Version	94V-0
SW Version	K912_KCM_DUAL_V0_0_1
EUT Stage	Identical Prototype

#### Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two different types of EUT. They are single SIM card mobile (Model Name: Avvio 821, MEU SN81) and dual SIM card mobile (Model Name: Avvio 821S). The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we choose dual SIM card mobile to perform all test.
- 3. The model names (Avvio 821S, Avvio 821, MEU SN81) are identical on hardware. The only difference is the label of different branding for different customer.



# **1.4. Product Specification of Equipment Under Test**

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 II: 1852.4 MHz ~ 1907.6 MHz Bluetooth: 2402 MHz ~ 2480 MHz			
Rx Frequency Range	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 II: 1932.4 MHz ~ 1987.6 MHz Bluetooth: 2402 MHz ~ 2480 MHz FM: 88 MHz ~ 108 MHz			
Antenna Type	WWAN : PIFA Antenna Bluetooth : Monopole Antenna			
Type of Modulation	GSM: GMSK GPRS: GMSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) Bluetooth BDR (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi$ /4-DQPSK Bluetooth EDR (3Mbps) : 8-DPSK FM			



### 1.5. Test Site

Test Site	SPORTON INTERNA	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.					
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Teet Site Ne	Sporton Site No. FCC/IC Registration No.					
Test Site No.	CO01-SZ	03CH01-SZ	149928/4086E-1			

# 1.6. Applied 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 C63.4-2003
- **Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



# 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 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).

		Test Condition			
ltem	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G	
1.	Charging Mode (EUT with adapter)	$\square$	$\boxtimes$	$\boxtimes$	
2.	Data application transferred mode (EUT with PC)	$\square$	$\boxtimes$	$\boxtimes$	

The following tables are showing the test modes as the worst cases and recorded in this report.

#### Abbreviations:

- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

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

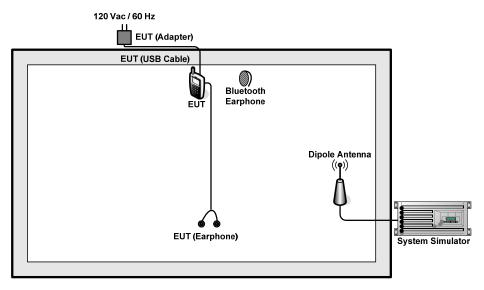


Test Items	EUT Configure Mode	Function Type			
		Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adpater) + Earphone + Camera + SIM1 <fig.1></fig.1>			
AC Conducted		Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adpater) + Earphone + MPEG4 + SIM1 <fig.1></fig.1>			
Emission	1/2	Mode 3: WCDMA Band V Idle + Bluetooth Idle + USB Cable (Charging from Adpater) + Earphone + FM Rx + SIM1 <fig.2></fig.2>			
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + SIM1 <fig.3></fig.3>			
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adpater) + Earphone + Camera + SIM1 <fig.1></fig.1>			
Radiated		Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging fi Adpater) + Earphone + MPEG4 + SIM1 <fig.1></fig.1>			
Emissions < 1GHz		Mode 3: WCDMA Band V Idle + Bluetooth Idle + USB Cable (Charging from Adpater) + Earphone + FM Rx + SIM1 <fig.2></fig.2>			
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + SIM1 <fig.3></fig.3>			
Radiated	4/0	Mode 1: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adpater) + Earphone + MPEG4 + SIM1 <fig.1></fig.1>			
$Emissions \geq 1GHz$	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + SIM1 <fig.3></fig.3>			
Remark:					
1. The worst	case of AC (	Conducted Emission is mode 3, and the USB Link mode of AC			
Conducted	d Emission is	s mode 4; the test data of these modes were reported.			
2. The worst	case of Rad	iated Emissions is mode 2, and the USB Link mode of Radiated			
Emissions	Emissions is mode 4; the test data of these modes were reported.				

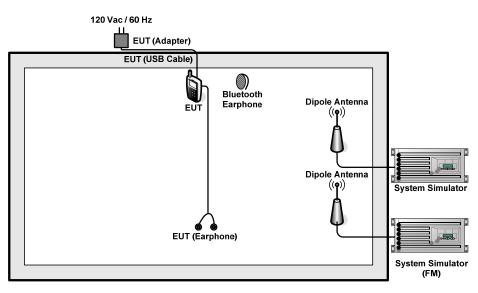
3. Data Link with PC means data application transferred mode between EUT and PC.



# 2.2. Connection Diagram of Test System

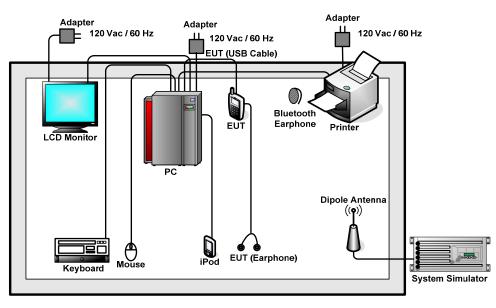






<Fig. 2>





<Fig. 3>

# 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	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator (FM)	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-108	N/A	N/A	N/A
4.	Bluetooth Earphone	Nokia	HS-12W	PYAHS-12W	N/A	N/A
5.	PC	DELL	OPTIPLEX 390	FCC DoC	N/A	Unshielded, 1.8 m
6.	Mouse	DELL	MS111-L	FCC DoC	Shielded, 1.5 m	N/A
7.	Monitor	DELL	IN1940MWB	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
8.	(USB) Keyboard	DELL	KB212-B	FCC DoC	Shielded, 1.5 m	N/A
9.	Printer	SAMSUNG	ML-1610	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
10.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A



### 2.4. Test Software

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. Execute the program, "Winthrax" under WIN7 installed in PC for files transfer with EUT via USB cable.
- 2. Turn on FM function to make the EUT receive continuous signals from system simulator (FM).
- 3. Execute "Video player" to play MPEG4 files.
- 4. Turn on camera to capture images.



# 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

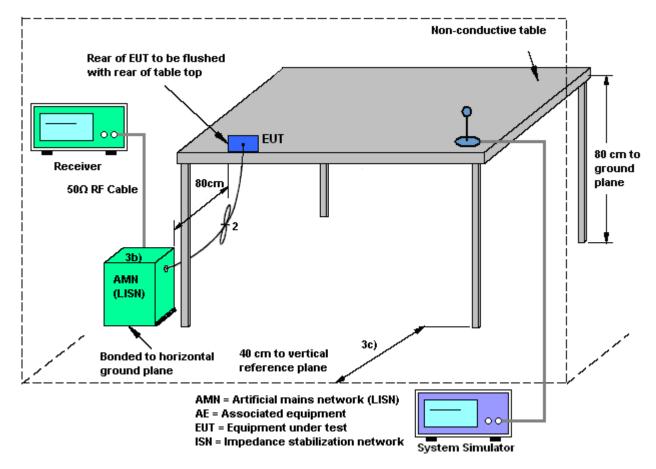
See list of measuring instruments of this test report.

### 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 with Maximum Hold Mode.



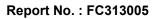
### 3.1.4 Test Setup





### 3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 3			Tem	peratur	e:	22~23	₿℃		
Test Engineer :	Leo Liao			Rela	tive Hu	midity :	48~49	9%		
Test Voltage :	120Vac /	60Hz		Phas	se :		Line			
Eurotion Turo i	WCDMA	Band V	Idle + I	Bluetoot	h Idle -	+ USB C	able (C	harging from	Adpater) +	
Function Type :	Earphone	Earphone + FM Rx + SIM1								
Remark :	All emissi	All emissions not reported here are more than 10 dB below the prescribed limit.								
100	Level (dBuV)					Dat	te: 2013-03	3-14 Time: 10:23:36	5	
90										
80										
70										
60								FCC 15B_QP		
	D	1 1	41 .01		L 11			FCC 15B_AVG		
50	A A I	AMAA	AAAAAA	WWW.Markinghan	WAN	Marrishaway		n.MAs		
40	WW	MANN'	ABBALLA H	1 3 An alland	11 444	. Water water water	Manuthan	Hoursel W W		
30										
20										
10					2					
0	.15 .2	.5	1		2	5	10	20 3	] 30	
				Frequ	ency (MHz)	)				
Site	: CO01-S on: FCC 15		SN T. 2000	601 LTN	7					
					-					
Mode	: Mode 3									
	-	T		Limit	Read		Cable	Denneh		
	Freq	TeAst	Limit	Line	TeAst	Factor	088	Remark		
							2000			
	MHz	dBuV	dB	dBuV	dBuV	dB	dB			
1			dB -11.73				dB	Average		
2	0.43 0.43	35.60 47.60	-11.73 -9.73	47.33 57.33	25.50 37.50	0.02	dB 10.08 10.08	QP		
2 3	0.43 0.43 0.65	35.60 47.60 35.72	-11.73 -9.73 -10.28	47.33 57.33 46.00	25.50 37.50 25.60	0.02 0.02 0.02	dB 10.08 10.08 10.10	QP Average		
2	0.43 0.43 0.65	35.60 47.60 35.72 47.02	-11.73 -9.73 -10.28 -8.98	47.33 57.33 46.00	25.50 37.50 25.60	0.02 0.02 0.02	dB 10.08 10.08 10.10 10.10	QP Average QP		
2 3 4 5 6	0.43 0.43 0.65 0.65 0.70 0.70	35.60 47.60 35.72 47.02 34.42 45.62	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38	47.33 57.33 46.00 56.00 46.00 56.00	25.50 37.50 25.60 36.90 24.30 35.50	0.02 0.02 0.02 0.02 0.02 0.02	dB 10.08 10.08 10.10 10.10 10.10 10.10	QP Average QP Average QP		
2 3 4 5 6 7	0.43 0.43 0.65 0.65 0.70 0.70 0.90	35.60 47.60 35.72 47.02 34.42 45.62 35.63	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38 -10.37	47.33 57.33 46.00 56.00 46.00 56.00 46.00	25.50 37.50 25.60 36.90 24.30 35.50 25.49	0.02 0.02 0.02 0.02 0.02 0.02 0.02	dB 10.08 10.10 10.10 10.10 10.10 10.11	QP Average QP Average QP Average		
2 3 4 5 6 7 8 *	0.43 0.43 0.65 0.65 0.70 0.70 0.90 0.90	35.60 47.60 35.72 47.02 34.42 45.62 35.63 47.03	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38 -10.37 -8.97	47.33 57.33 46.00 56.00 46.00 56.00 46.00 56.00	25.50 37.50 25.60 36.90 24.30 35.50 25.49 36.89	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.03	dB 10.08 10.10 10.10 10.10 10.10 10.11 10.11	QP Average QP Average QP Average QP		
2 3 4 5 6 7 8 9	0.43 0.43 0.65 0.65 0.70 0.70 0.90 0.90 1.18	35.60 47.60 35.72 47.02 34.42 45.62 35.63 47.03 33.75	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38 -10.37 -8.97 -12.25	47.33 57.33 46.00 56.00 46.00 56.00 46.00 56.00 46.00	25.50 37.50 25.60 36.90 24.30 35.50 25.49 36.89 23.60	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.03	dB 10.08 10.08 10.10 10.10 10.10 10.11 10.11 10.12	QP Average QP Average QP Average QP Average		
2 3 4 5 6 7 8 * 9 10	0.43 0.65 0.65 0.70 0.70 0.90 0.90 1.18 1.18	35.60 47.60 35.72 47.02 34.42 45.62 35.63 47.03 33.75 45.75	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38 -10.37 -8.97 -12.25 -10.25	47.33 57.33 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	25.50 37.50 25.60 36.90 24.30 35.50 25.49 36.89 23.60 35.60	0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.03	dB 10.08 10.10 10.10 10.10 10.10 10.11 10.11 10.11 10.12	QP Average QP Average QP Average QP Average QP		
2 3 4 5 6 7 8 * 9	0.43 0.65 0.65 0.70 0.70 0.90 0.90 1.18 1.18 1.99	35.60 47.60 35.72 47.02 34.42 45.62 35.63 47.03 33.75 45.75 31.29	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38 -10.37 -8.97 -12.25 -10.25	47.33 57.33 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	25.50 37.50 25.60 36.90 24.30 35.50 25.49 36.89 23.60 35.60 21.10	0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	dB 10.08 10.10 10.10 10.10 10.10 10.11 10.11 10.11 10.12	QP Average QP Average QP Average QP Average QP Average		
2 3 4 5 6 7 8 * 9 10 11	0.43 0.65 0.65 0.70 0.70 0.90 0.90 1.18 1.18 1.99	35.60 47.60 35.72 47.02 34.42 45.62 35.63 47.03 33.75 45.75 31.29	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38 -10.37 -8.97 -12.25 -10.25 -14.71	47.33 57.33 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	25.50 37.50 25.60 36.90 24.30 35.50 25.49 36.89 23.60 35.60 21.10	0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	dB 10.08 10.10 10.10 10.10 10.10 10.11 10.11 10.12 10.12 10.15	QP Average QP Average QP Average QP Average QP Average		
2 3 4 5 6 7 8 * 9 10 11	0.43 0.65 0.65 0.70 0.70 0.90 0.90 1.18 1.18 1.99	35.60 47.60 35.72 47.02 34.42 45.62 35.63 47.03 33.75 45.75 31.29	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38 -10.37 -8.97 -12.25 -10.25 -14.71	47.33 57.33 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	25.50 37.50 25.60 36.90 24.30 35.50 25.49 36.89 23.60 35.60 21.10	0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	dB 10.08 10.10 10.10 10.10 10.10 10.11 10.11 10.12 10.12 10.15	QP Average QP Average QP Average QP Average QP Average		
2 3 4 5 6 7 8 * 9 10 11	0.43 0.65 0.65 0.70 0.70 0.90 0.90 1.18 1.18 1.99	35.60 47.60 35.72 47.02 34.42 45.62 35.63 47.03 33.75 45.75 31.29	-11.73 -9.73 -10.28 -8.98 -11.58 -10.38 -10.37 -8.97 -12.25 -10.25 -14.71	47.33 57.33 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	25.50 37.50 25.60 36.90 24.30 35.50 25.49 36.89 23.60 35.60 21.10	0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03	dB 10.08 10.10 10.10 10.10 10.10 10.11 10.11 10.12 10.12 10.15	QP Average QP Average QP Average QP Average QP Average		

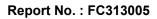




Test Engineer :	Mode 3			Tem	mperature :			<b>22~23</b> ℃		
	Leo Liao				elative Humidity : 48-			9%		
Fest Voltage :	120Vac /	60Hz		Phas	se :		Neutra	al		
Turne Aliene Trune a	WCDMA	Band V	' Idle + E	Bluetoot	h Idle +	USB C	able (C	harging fro	om Adpat	
Function Type :	Earphone	+ FM F	Rx + SIM	1						
Remark :	All emissi	ons not	reported	here a	re more	than 10	dB belo	w the pres	cribed lim	
100	Level (dBuV)		10 10 25 0125			Da	te: 2013-0	3-14 Time: 10:3	2:30	
90										
80										
70									50	
60					a - a			FCC 15B_	QP	
50	A							FCC 15B_A	VG	
	N A A I	0000	A BALAKBAK		MR. 1	ting and		N	/14/	
40	MUW	<b>FV</b> (/V)	YAN YADAMA	handhadhhad	1 - Winds	A WAY WAY	Man Martines	with we what he was	11	
30	Y W	4			a			A to the to		
20				-						
10					aa					
0	.15 .2	.5	1		2	5	10	20	30	
				Frequ	ency (MHz)					
Site Conditi	: CO01-S on: FCC 15		SN N 2000	601 NEU	TRAL					
		*								
Mode	: Mode 3									
			Over	Limit	Read	LISN	Cable			
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark		
_	MHz	dBuV	dB	dBuV	dBuV	dB	dB			
-								7		
1 2	0.43		-9.60		27.59		10.08	Average		
3 *	0.64	37.81	-8.19	46.00				Average		
4	0.64		-10.89	56.00	34.99			-		
5			-9.47					Average		
6			-11.57							
7								Average		
8			-11.66				10.12			
0								Average		
9			-11.20							
10		33.12	-16.28	50.00	22.40	0.89	10.43	Average		
			-15.68							



Test Mode :	Mode 4			Tem	peratur	e:	22~23	<b>22~23</b> ℃		
Test Engineer :	Leo Liao	Rela	tive Hu	midity : 48~49%						
Test Voltage :	120Vac /	60Hz		Phas	se :		Line			
	WCDMA	Band II	Idle +	Blueto	oth Idle	+ USB	Cable	(Data Lin	k with PC	
Function Type :	Earphone	+ SIM1								
Remark :	All emissi	ons not r	eported	here a	re more	than 10	dB belo	w the pres	cribed limit	
100	Level (dBuV)					Da	te: 2013-0:	3-14 Time: 10:40	D: <b>1</b> 1	
90										
80					30			12		
70										
					s			FCC 15B_	QP	
60								FCC 15B_A		
50	-							FCC 13B_A	00	
40	VI M	1000				with the a		1.	0.00	
30	how the	man 19	"Jan performance	hallphillip	my townshinker	MAN ON WAY	49 Owent order	at why a home washing on	worth	
.50		5				7		12 11		
20	<u></u>									
10					s					
0										
	.15 .2	.5	1	From	2 ency (MHz	5	10	20	30	
	: CO01-S	-		riequ	ency (minz	<b>'</b>				
Site Conditi										
	on: FCC 15	B OP LISM	L 2000	601 LIN	Ξ					
	on: FCC 15.	B_QP LISN	1_L_2000	601 LIN	Ξ					
Mode	on: FCC 15 : Mode 4	_	1_L_2000	601 LIN	Ξ					
Mode		_		601 LIN	Read	LISN	Cable			
Mode	: Mode 4	_	Over	Limit	Read	LISN Factor		Remark		
Mode -	: Mode 4		Over	Limit	Read			Remark	_	
Mode	: Mode 4 Freq MHz	Level	Over Limit dB	Limit Line dBuV	Read Level dBuV	Factor 	Loss dB	Remark 	_	
-	: Mode 4 Freq MHz 0.17	Level dBuV	Over Limit dB	Limit Line dBuV 54.77	Read Level dBuV 26.50	Factor dB 0.03	Loss dB	Average	-	
1 * 2 3	: Mode 4 Freq MHz 0.17 0.17 0.26	Level dBuV 36.58 - 41.88 - 26.99 -	Over Limit dB -18.19 -22.89 -24.39	Limit Line dBuV 54.77 64.77 51.38	Read Level dBuV 26.50 31.80 16.91	Factor dB 0.03 0.03 0.02	Loss dB 10.05 10.05 10.06	Average QP Average	-	
1 * 2 3 4	: Mode 4 Freq MHz 0.17 0.17 0.26 0.26	Level dBuV 36.58 - 41.88 - 26.99 - 33.89 -	Over Limit dB -18.19 -22.89 -24.39 -27.49	Limit Line dBuV 54.77 64.77 51.38 61.38	Read Level dBuV 26.50 31.80 16.91 23.81	Factor dB 0.03 0.03 0.02 0.02	Loss dB 10.05 10.05 10.06 10.06	Average QP Average QP	-	
1 * 2 3 4 5	: Mode 4 Freq MHz 0.17 0.17 0.26 0.26 0.54	Level dBuV 36.58 - 41.88 - 26.99 - 33.89 - 20.11 -	Over Limit dB -18.19 -22.89 -24.39 -27.49 -25.89	Limit Line dBuV 54.77 64.77 51.38 61.38 46.00	Read Level dBuV 26.50 31.80 16.91 23.81 10.00	Factor dB 0.03 0.03 0.02 0.02 0.02	Loss dB 10.05 10.05 10.06 10.06 10.09	Average QP Average QP Average	-	
1 * 2 3 4 5 6	: Mode 4 Freq MHz 0.17 0.17 0.26 0.26 0.54 0.54	Level dBuV 36.58 - 41.88 - 26.99 - 33.89 - 20.11 - 32.21 -	Over Limit dB -18.19 -22.89 -24.39 -24.39 -27.49 -25.89 -23.79	Limit Line dBuV 54.77 64.77 51.38 61.38 46.00 56.00	Read Level dBuV 26.50 31.80 16.91 23.81 10.00 22.10	Factor dB 0.03 0.02 0.02 0.02 0.02 0.02	Loss dB 10.05 10.05 10.06 10.06 10.09 10.09	Average QP Average QP Average QP	-	
1 * 2 3 4 5	: Mode 4 Freq MHz 0.17 0.17 0.26 0.26 0.54 0.54 4.38	Level dBuV 36.58 - 41.88 - 26.99 - 33.89 - 20.11 - 32.21 -	Over Limit dB -18.19 -22.89 -24.39 -24.39 -27.49 -25.89 -23.79 -21.54	Limit Line dBuV 54.77 64.77 51.38 61.38 46.00 56.00 46.00	Read Level dBuV 26.50 31.80 16.91 23.81 10.00 22.10 14.21	Factor dB 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.06	Loss dB 10.05 10.05 10.06 10.06 10.09 10.09 10.19	Average QP Average QP Average QP Average	_	
1 * 2 3 4 5 6 7	: Mode 4 Freq MHz 0.17 0.17 0.26 0.26 0.26 0.54 0.54 4.38 4.38 7.02	Level dBuV 36.58 41.88 26.99 20.11 32.21 24.46 34.36 23.70	Over Limit dB -18.19 -22.89 -24.39 -27.49 -27.49 -25.89 -27.49 -25.89 -23.79 -21.54 -21.64 -26.30	Limit Line dBuV 54.77 64.77 51.38 61.38 46.00 56.00 46.00 56.00 56.00	Read Level dBuV 26.50 31.80 16.91 23.81 10.00 22.10 14.21 24.11 13.40	Factor dB 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.06 0.06	Loss dB 10.05 10.05 10.06 10.06 10.09 10.09 10.19 10.19 10.20	Average QP Average QP Average QP Average QP Average	_	
1 * 2 3 4 5 6 7 8 9 10	: Mode 4 Freq MHz 0.17 0.26 0.26 0.54 0.54 4.38 4.38 7.02 7.02	Level dBuV 36.58 - 41.88 - 26.99 - 33.89 - 20.11 - 32.21 - 24.46 - 34.36 - 23.70 - 31.80 -	Over Limit dB 22.89 24.39 27.49 25.89 23.79 21.54 21.64 26.30 28.20	Limit Line dBuV 54.77 64.77 51.38 61.38 46.00 56.00 46.00 56.00 56.00 50.00 60.00	Read Level dBuV 26.50 31.80 16.91 23.81 10.00 22.10 14.21 24.11 13.40 21.50	Factor dB 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.06 0.06	Loss dB 10.05 10.06 10.06 10.09 10.09 10.19 10.19 10.20 10.20	Average QP Average QP Average QP Average QP Average QP		
1 * 2 3 4 5 6 7 8 9	: Mode 4 Freq MHz 0.17 0.26 0.26 0.54 0.54 4.38 4.38 7.02 7.02 11.56	Level dBuV 36.58 - 41.88 - 26.99 - 33.89 - 20.11 - 32.21 - 24.46 - 34.36 - 23.70 - 31.80 -	Over Limit dB 18.19 22.89 24.39 27.49 25.89 23.79 21.54 21.64 22.30 22.20 28.20 29.82	Limit Line dBuV 54.77 64.77 51.38 61.38 46.00 56.00 46.00 56.00 56.00 50.00 50.00	Read Level dBuV 26.50 31.80 16.91 23.81 10.00 22.10 14.21 24.11 13.40 21.50 9.60	Factor dB 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.06 0.06	Loss dB 10.05 10.06 10.06 10.09 10.09 10.19 10.19 10.20 10.20 10.20 10.33	Average QP Average QP Average QP Average QP Average QP Average		





Test Mode :	Mode 4		Tem	Temperature :			<b>22~23</b> ℃		
Test Engineer :	Leo Liao		Rela	tive Humidity :		48~49	48~49%		
Test Voltage :	120Vac /	60Hz	Pha	se :		Neutra	al		
	WCDMA	Band II Idle +	Blueto	oth Idle	+ USB	Cable	e (Data Lir	nk with PC	
Function Type :	Earphone	e + SIM1							
Remark :	All emissi	ions not reporte	d here a	re more	than 10	dB belo	ow the pres	scribed limit	
100	Level (dBuV)				Da	te: 2013-0	3-14 Time: 10:4	41:35	
90							12		
80							12		
70							FCC 4ED	0.0	
60							FCC 15B		
50						-	FCC 15B_/	AVG	
40	(FA)				MA				
1000	3 monthing	mon Manun	human	many and a share a	HARRING STLANGAR	and the first	10 Viewood www.	Martin	
30					7		12		
30						1	11		
30 20		5					11		
		5					11		
20 10	15 .2	5	1 Frequ	2 ency (MHz	5)	10		30	
20 10 O Site Conditi	.15 .2 : COO1-S on: FCC 15	.5 32 35_QP_LISN_N_200	Frequ	ency (MHz	10	10		30	
20 10 0 Site	.15 .2 : CO01-5	.5 32 35_QP_LISN_N_200	Frequ	ency (MHz	10	10		30	
20 10 O Site Conditi	.15 .2 : CO01-S on: FCC 15 : Mode 4	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit	ency (MHz TRAL Read	) LISN	Cable	) 20	30	
20 10 O Site Conditi	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line	Read Level	) LISN Factor	Cable Loss		30	
20 10 Site Conditi Mode	.15 .2 : COO1-S on: FCC 15 : Mode 4 Freq MHz	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV	Read Level dBuV	) Factor dB	Cable Loss dB	) 20 Remark	30	
20 10 Site Conditi Mode 	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12	Read Level dBuV 22.81	LISN Factor dB 0.02	Cable Loss dB 10.05	D 20 Remark	30	
20 10 Site Conditi Mode	.15 .2 : COO1-S on: FCC 15 : Mode 4 Freq MHz	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12 65.12	Read Level 22.81 29.21	LISN Factor dB 0.02 0.02	Cable Loss dB 10.05 10.05	P 20 Remark Average QP	30	
20 10 O Site Conditi Mode 	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17 0.17	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12 65.12 54.24	Read Level dBuV 22.81	LISN Factor dB 0.02 0.02 0.02	Cable Loss dB 10.05 10.05 10.05	Remark Average QP Average	30	
20 10 O Site Conditi Mode 	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17 0.17 0.19	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12 65.12 54.24 64.24	Read Level 22.81 29.21 21.30	LISN Factor dB 0.02 0.02 0.02 0.02 0.02	Cable Loss dB 10.05 10.05 10.05	Remark Average QP Average	30	
20 10 0 Site Conditi Mode 	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17 0.17 0.19 0.19 0.53 0.53	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12 65.12 54.24 64.24 46.00 56.00	Read Level dBuV 22.81 29.21 21.30 27.20 9.29 20.99	LISN Factor dB 0.02 0.02 0.02 0.02 0.02 0.02 0.02	Cable Loss dB 10.05 10.05 10.05 10.05 10.09 10.09	Average QP Average QP Average QP	30	
20 10 0 Site Conditi Mode 	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17 0.17 0.19 0.19 0.53 0.53 4.50	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12 65.12 54.24 64.24 46.00 56.00 46.00	Read Level dBuV 22.81 29.21 21.30 27.20 9.29 20.99 13.20	LISN Factor dB 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0	Cable Loss dB 10.05 10.05 10.05 10.05 10.09 10.09 10.09	Average QP Average QP Average QP Average	30	
20 10 0 Site Conditi Mode 1 * 2 3 4 5 6	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17 0.17 0.19 0.19 0.53 0.53 4.50 4.50	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12 65.12 54.24 64.24 46.00 56.00 46.00 56.00	Read Level dBuV 22.81 29.21 21.30 27.20 9.29 20.99 13.20 22.90	LISN Factor dB 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0	Cable Loss dB 10.05 10.05 10.05 10.05 10.09 10.09 10.09 10.19	Remark Average QP Average QP Average QP Average QP	30	
20 10 0 Site Conditi Mode 	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17 0.17 0.19 0.19 0.53 0.53 4.50 4.50 7.10	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12 65.12 54.24 64.24 46.00 56.00 46.00 56.00 50.00	Read Level dBuV 22.81 29.21 21.30 27.20 9.29 13.20 22.90 12.00	LISN Factor dB 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0	Cable Loss dB 10.05 10.05 10.05 10.05 10.09 10.09 10.19 10.19 10.20	Remark Average QP Average QP Average QP Average QP Average	30	
20 10 0 Site Conditi Mode 	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17 0.19 0.19 0.19 0.53 4.50 4.50 7.10 7.10	5 32 35 36 37 38 39 39 30 30 30 30 30 30 30 30 30 30	Frequ 0601 NEU Limit Line dBuV 55.12 65.12 54.24 64.24 46.00 56.00 56.00 56.00 50.00 60.00	Read Level 22.81 29.21 21.30 27.20 9.29 20.99 13.20 22.90 12.00 21.40	LISN Factor dB 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0	Cable Loss dB 10.05 10.05 10.05 10.09 10.09 10.09 10.19 10.20 10.20	Remark Average QP Average QP Average QP Average QP Average QP Average QP	30	
20 10 0 Site Conditi Mode 	.15 .2 : CO01-S on: FCC 15 : Mode 4 Freq MHz 0.17 0.19 0.19 0.19 0.53 4.50 4.50 7.10 7.10 11.93	.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	Frequ 0601 NEU Limit Line dBuV 55.12 65.12 54.24 64.24 46.00 56.00 56.00 56.00 50.00 60.00 50.00	Read Level dBuV 22.81 29.21 21.30 27.20 9.29 20.99 13.20 22.90 12.00 21.40 9.00	LISN Factor dB 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0	Cable Loss dB 10.05 10.05 10.05 10.09 10.09 10.19 10.19 10.20 10.20 10.34	Remark Average QP Average QP Average QP Average QP Average QP Average QP Average	30	



# 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

See list of measuring instruments of this test report.

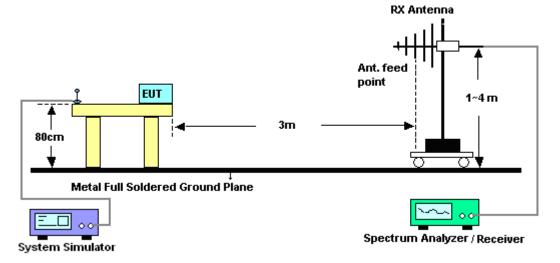
### 3.2.3. Test Procedures

- 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 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.
- 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 (dBuV/m) = 20 log Emission level (uV/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level

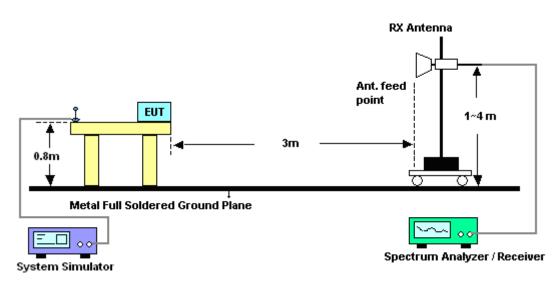


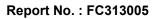
### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz







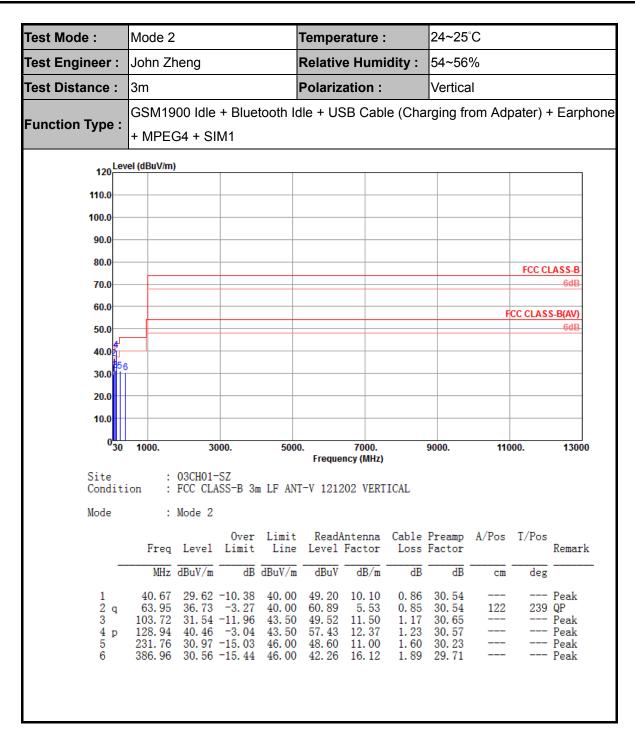




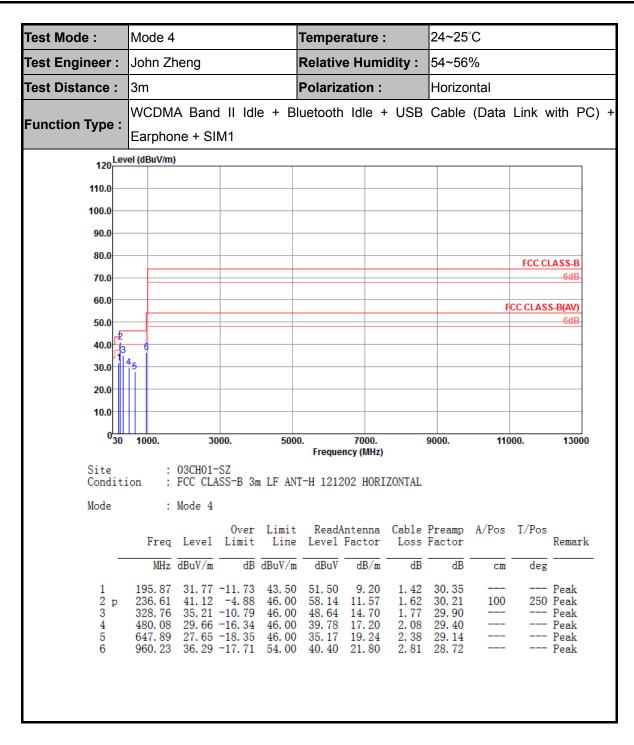
### 3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 2			Tempe	emperature :			°C				
Test Engineer :	John Zh	John Zheng			Relative Humidity :			54~56%				
Test Distance :	3m				Polariz	ation :		Horizo	ntal			
Function Type :	GSM19 + MPE0			ooth Id	lle + US	B Cabl	e (Cha	rging fro	om Adp	oater) +	Earph	one
120	vel (dBuV/m	)	1									
110.0												
100.0												
90.0												
80.0										FCC CI	ASSB	
70.0											6dB	
60.0									F	CC CLAS	S-B(AV)	
50.0											6dB	
40.0	6											
30.0												
20.0												
10.0												
030	1000.	30	00.	5000		7000.		9000.	110	000.	13000	
Site		03CH01-			-	ncy (MHz)						
Condit		FCC CLA	55-B 3t	1 LF AN	I-H 1212	202 HORI	ZONTAL					
Mode		Mode 2 Level		Limit Line		ntenna Factor		Preamp Factor	A/Pos	T/Pos	Remark	
-	MHz	dBuV/m	dB	dBuV/m	dBuV		dB	dB	cm	deg		-
1 !	62.01	34.26	-5.74	40.00	58.39	5.57	0.84	30. 54			Peak	
2 3 4 q 5 p 6	121.18 130.88 211.39	31. 36 33. 34 40. 44 37. 98 35. 75	-10. 16 -3. 06 -5. 52	43.50 43.50 43.50	57.36 57.30	12.20 12.40 9.47	1.18 1.23 1.24 1.51	30. 65 30. 60 30. 56	200	197	Peak Peak QP Peak Peak	











Test Mode :	Mode 4			Tempe	rature :		24~25°C					
Test Engineer :	John Zheng			Relativ	e Humi	idity :	54~56%					
Test Distance :	3m	3m I			Polariz	ation :		Vertica	ıl			
Function Type :	WCDM Earpho			e + Bl	uetooth	Idle +	⊦ USB	Cable	(Data	Link N	with PC	C)
120	vel (dBuV/m)	)										
110.0												
100.0												
90.0												
80.0										500.0		
70.0										FLL L	LASS-B 6dB	
60.0										CC CLAS	S B(AV)	
50.0											-6dB-	
40.0	3_6											
30.0	4											
20.0												
10.0												
030	1000.	30	00.	5000		7000.		9000.	11	000.	13000	)
Site Condit Mode	ion :	03CH01- FCC CLA Mode 4		n LF ANI		ncy (MHz) 202 VER1						
	Freq	Level		Limit Line				Preamp Factor	A/Pos	T/Pos	Remark	:
-	MHz	$\overline{dBuV/m}$	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		-
1 p 2 3 4 5 6		28.25	-10.60 -9.56 -17.75 -13.30	46.00 46.00 46.00	48.83 46.56 36.64 40.06	14.70	1.63 1.77 2.08 2.24 2.42 2.81	29. 90 29. 40 29. 23 29. 08	100  	 	Peak Peak Peak Peak Peak Peak	



# 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
ESCIO TEST Receiver	R&S	1142.8007.03	100724	9kHz -3GHz	Mar. 28, 2013	Mar. 14, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Mar. 14, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Mar. 14, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	N/A	Nov. 20, 2012	Mar. 14, 2013	Nov. 19, 2013	Conduction (CO01-SZ)
AC Filter	ETS-LINDGREN	LRE-2030/PE N 256260	00093783	N/A	N/A	Mar. 14, 2013	N/A	Conduction (CO01-SZ)
AC Filter	ETS-LINDGREN	LRE-2030/PE N 256260	00097973	N/A	N/A	Mar. 14, 2013	N/A	Conduction (CO01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9K-3GHz	Mar. 28, 2013	Mar. 17, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP30	101362	9kHz~30GHz	Oct. 11, 2012	Mar. 17, 2013	Oct. 10, 2013	Radiation (03CH01-SZ)
Double Ridge Horn Amtenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 12, 2012	Mar. 17, 2013	Oct. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30Mhz~2Ghz	Nov. 03, 2012	Mar. 17, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9KHz-3000MHz GAIN 30db	Mar. 28, 2013	Mar. 17, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Mar. 17, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA9170249	14Ghz~40Ghz	Nov. 23, 2012	Mar. 17, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)
System Simulator(FM)	R&S	CMU200	112352	GSM/WCDMA /CDMA2000	Oct. 26, 2012	Mar. 14, 2013~ Mar. 17, 2013	Oct. 25, 2013	-
System Simulator	Agilent	E5515C	MY50264168	GSM/WCDMA /CDMA2000	Oct. 09, 2012	Mar. 14, 2013~ Mar. 17, 2013	Oct. 08, 2013	-



# 5. Uncertainty of Evaluation

#### Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of	2.26
Confidence of 95% (U = 2Uc(y))	2.20

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54	
--	------	--

#### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U=2Uc(y))	



# Appendix A. Photographs of EUT

Please refer to Sporton report number EP313005 as below.