



# FCC 47 CFR PART 15 SUBPART B

## TESTREPORT

*For*

**Product Name :** GSM Mobile Phone

**Model Name :** CHIC MINI D113

**Serial Model :** MINI N113, CHIC MINI D116, R5130, mini 5130

**Brand Name :** N/A

**FCC ID :** 2AB7A-MINI-113

**Report No. :** BZT140401E01

**Date of Issue :** April 14, 2014

### **Prepared for**

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**1. VERIFICATION OF CONFORMITY**

<b>Equipment Under Test:</b>	GSM MOBILE PHONE
<b>Brand Name:</b>	N/A
<b>Model Number:</b>	CHIC MINI D113
<b>Series Model Name:</b>	MINI N113, CHIC MINI D116, R5130, mini 5130
<b>FCC ID:</b>	2AB7A-MINI-113
<b>Applicant:</b>	HK AONYSTAR CO.,LIMITED ROOM 1103, HANG SENG MONGKOK BUILDING, 677 NATHAN ROAD, MONGKOK, KOWLOON, HONGKONG
<b>Manufacturer:</b>	HK AONYSTAR CO.,LIMITED ROOM 1103, HANG SENG MONGKOK BUILDING, 677 NATHAN ROAD, MONGKOK, KOWLOON, HONGKONG
<b>Technical Standards:</b>	47 CFR Part 15 Subpart B
<b>File Number:</b>	BZT140401E01
<b>Date of test:</b>	April 1, 2014 ~April 13, 2014
<b>Date of issue:</b>	April 14, 2014
<b>Condition of Test Sample:</b>	Normal
<b>Test Result:</b>	PASS

This device described above has been tested by BZT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

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Testing Engineer : Apple Huang

(Apple Huang)

Technical Manager : Tom Zhang

(Tom Zhang)

Authorized Signatory : Bovey Yang

(Bovey Yang)

## 2. GENERAL INFORMATION

### 2.1 PRODUCT INFORMATION

<b>EUT- Mobile Phone</b>	
Description:	GSM MOBILE PHONE
Brand Name:	N/A
Model Name:	CHIC MINI D113
Serial Model:	MINI N113, CHIC MINI D116, R5130, mini 5130
Frequency:	GSM 850: 824.2- 848.8 MHz PCS 1900: 1850.2- 1909.8 MHz Bluetooth: 2402-2480 MHz
<b>Ancillary Equipment – Power Supply</b>	
Description:	Travel Charger
Rated Input:	AC 100-240V, 50/60Hz
Rated Output:	DC 5V, 500mA
Length USB cable:	1.0m
<b>Ancillary Equipment – Battery</b>	
Description:	Lithium-ion Battery
Capacitance:	500 mAh
Rated Voltage:	3.7V
Charge Limit:	4.2V

**NOTE:**

1. The EUT is a model of GSM Portable Mobile Station (MS). It consists of **hand telephone set, Lithium battery, USB cable, headphone** and **Charger** as listed above.
2. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

## 2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

## 2.3 TEST STANDARDSAND RESULTS

Test items and the results are as bellow:

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B (10-1-05 Edition)	Conducted Emission	PASS	Meet Class B limit
	Radiated Emission	PASS	Meet Class B limit

*Note:* 1. The test result judgment is decided by the limit of measurement standard  
2. The information of measurement uncertainty is available upon the customer's request.

## 2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

### 3. TEST FACILITY

#### 3.1 TEST FACILITY

Test Site:	BZT Testing Technology Co., Ltd.
Location:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China
Description:	<p>There is one 3m semi-anechoic area test site and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16 requirements.</p> <p>FCC Registration No.: 701733</p>

#### 3.2 GENERAL TEST PROCEDURES

##### **EUT Function and Test Mode**

The EUT has been tested under normal operating (TX) and standby (RX) condition.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

##### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2003, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

##### Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2003.

### 3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41			

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

## 4. SETUPOFEQUIPMENTUNDER TEST

### 4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

### 4.2 SUPPORT EQUIPMENT

Device Type	Brand	Model	FCC ID	Series No.	Data Cable	Power Cord
Notebook	Lenovo	B460	N/A	WB03928113	1 m Un-shielding	2.5m Un-shielding
Mouse	Lenovo	M-UAE96	N/A	E-C011-05-3735(B)	1.6m Un-shielding	
Keyboard	LONGSEN	N/A	N/A	N/A	1.6m Un-shielding	
Monitor	ASUS	VH232H DVT	N/A	LE23Z5-617-929034	HDMI Cable	2.5m Un-shielding

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 4.3 TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10kHz to 1.0GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2014/4/21
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2014/4/21
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/3/14
4	Terminator	Hubersuhner	50Ω	No.1	2015/3/14
5	RF Cable	SchwarzBeck	N/A	No.1	N/A
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2014/4/21
7	Test Antenna – Horn	Schwarzbeck	BBHA 9120C	--	2015/3/14

8	Test Antenna – Bi-Log	Schwarzbeck	VULB 9163	--	2015/3/14
9	Cable	Resenberger	N/A	NO.1	N/A
10	Cable	SchwarzBeck	N/A	NO.2	N/A
11	Cable	SchwarzBeck	N/A	NO.3	N/A
12	Signal Generator	IFR	2032	203002/100	2014/5/21
13	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2014/4/21
14	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2015/03/14
15	Spectrum Analyzer	Agilent	4408B	MY41440460	2014/4/21
16	Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2014/4/15

**NOTE:**Equipments listed above have been calibrated and are in the period of validation.

## 5. 47 CFR PART 15B REQUIREMENTS

### 5.1 GENERAL INFORMATION

#### Mode 1: Idle Mode

The MS was registered to the base station simulator but no call was set up.

The EUT configuration of the emission test was **MS + Battery+ Charger**.

#### Mode 2: Call Mode

Before the measurement, the lithium battery was completely discharge.

During the measurement, the lithium battery and the charger were installed, and the MS were in charging state. A communication link was established between the MS and a System Simulator (SS). The MS operated at GSM 850/1900MHz mid ARFCN and maximum output power.

The EUT configuration of the emission test was **MS + Battery+ Charger**.

#### Mode 3: MP3/MP4 Mode

During the test, the MS was playing the MP3/MP4 function continuously.

The EUT configuration of the emission test was **MS + Battery+ Charger**.

#### Mode 4: FM Mode

During the test, the MS was playing the FMfunction continuously.

The EUT configuration of the emission test was **MS + Battery+ Earphone**.

#### Mode 5: Bluetooth Mode

During the test, the MS was playing the Bluetooth function continuously.

The EUT configuration of the emission test was **MS + Battery+ Charger**.

#### Mode 6: USB Mode

During the test, the MS was connected with the notebook and made the data transmission function continuously.

The EUT configuration of the emission test was **MS + Battery + USB Cable + Notebook+ Mouse +Monitor + Keyboard**.

Note: Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse modeis reported by this report.

## 6. LINE CONDUCTED EMISSION TEST

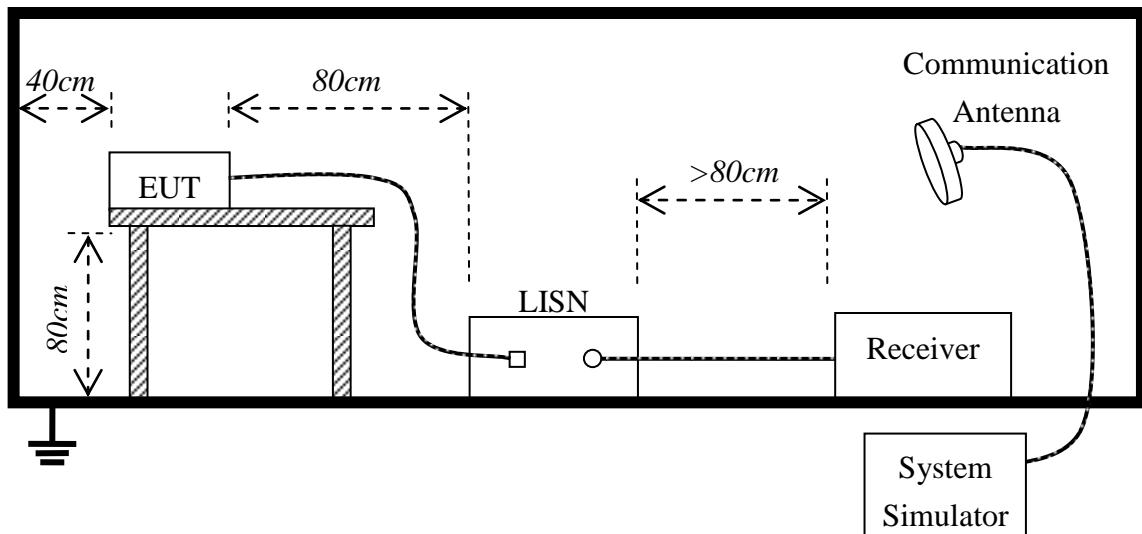
## 6.1 LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

**\*\*Note:** 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

## 6.2 BLOCK DIAGRAM OF TEST SETUP



### 6.3 PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received DC 5V by AC/DC adapter which through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test				
Frequency Range Investigated		150KHz To 30 MHz		
Mode of operation	Date	Report No.	Data#	Worst Mode
Idle Mode	2014-04-09	BZT140401E01	CHIC MINI D113_1_(L, N)	<input type="checkbox"/>
Call Mode	2014-04-09	BZT140401E01	CHIC MINI D113_2_(L, N)	<input type="checkbox"/>
MP3/MP4Mode	2014-04-09	BZT140401E01	CHIC MINI D113_3_(L, N)	<input type="checkbox"/>
FM Mode	2014-04-09	BZT140401E01	CHIC MINI D113_4_(L, N)	<input type="checkbox"/>
Bluetooth Mode	2014-04-09	BZT140401E01	CHIC MINI D113_5_(L, N)	<input type="checkbox"/>
USB Mode	2014-04-09	BZT140401E01	CHIC MINI D113_6_(L, N)	<input checked="" type="checkbox"/>

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 6.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The test data of the worst case condition(s) was reported on the Summary Data page.

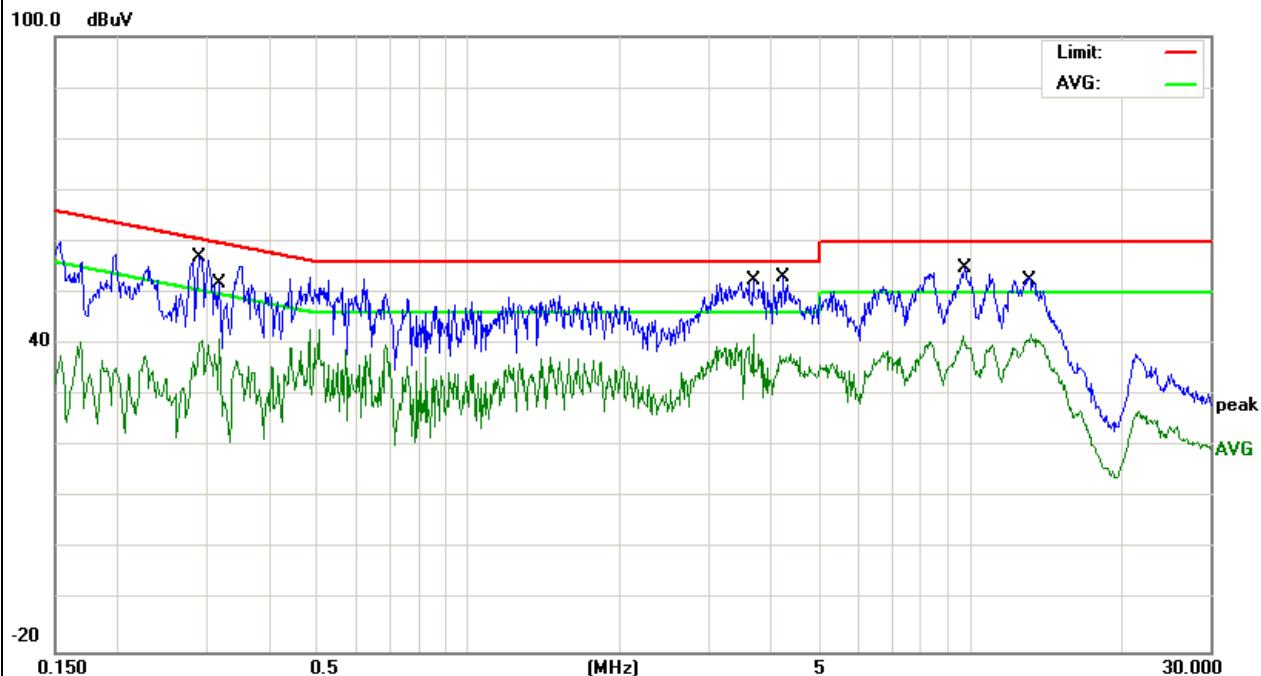
## 6.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST

EUT :	Mobile phone	Model Name :	CHIC MINI D113
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Phase :	L1
Test Voltage :	AC 120V		
Test Mode :	USB Mode		

Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
0.2898	46.92	9.90	56.82	60.53	-3.71	QP
0.3183	30.96	9.94	40.90	49.75	-8.85	AVG
3.6939	31.68	10.32	42.00	46.00	-4.00	AVG
4.2419	42.66	10.34	53.00	56.00	-3.00	QP
9.7417	44.50	10.32	54.82	60.00	-5.18	QP
13.2417	31.48	10.41	41.89	50.00	-8.11	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

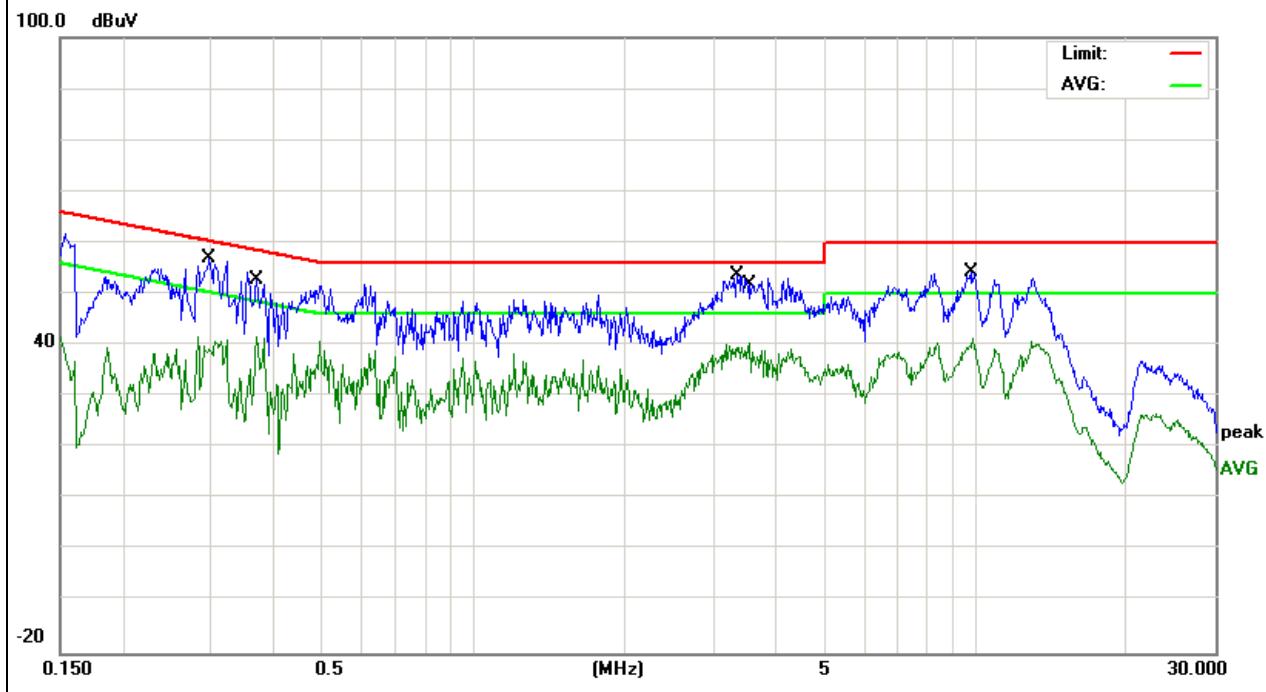


EUT:	Mobile phone	Model Name :	CHIC MINI D113
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Phase :	N
Test Voltage :	AC 120V		
Test Mode :	USB Mode		

Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
0.2977	46.89	10.20	57.09	60.30	-3.21	QP
0.3699	31.46	10.20	41.66	48.50	-6.84	AVG
3.3620	43.33	10.30	53.63	56.00	-2.37	QP
3.5579	30.15	10.30	40.45	46.00	-5.55	AVG
9.8018	43.78	10.33	54.11	60.00	-5.89	QP
9.8739	30.89	10.33	41.22	50.00	-8.78	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



## 7. RADIATED EMISSION TEST

### 7.1 LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

According to FCC section 15.109, except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

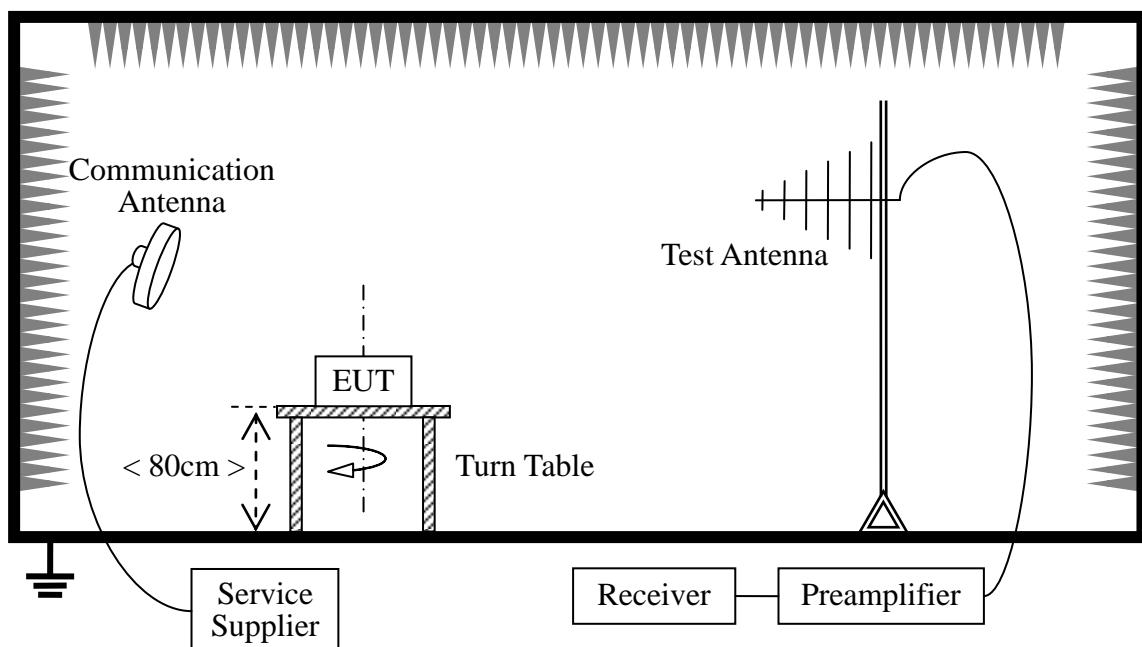
Frequency (MHz)	Field Strength ( $\mu$ V/m)	Measurement Distance (m)
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

**NOTE:**

1. Field Strength ( $\text{dB}\mu\text{V/m}$ ) =  $20 \times \log[\text{Field Strength (Mv/m)}]$ .
2. In the emission tables above, the tighter limit applies at the band edges.

### 7.2 TEST DESCRIPTION

**Test Setup:**



The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and transmitting with the other Bluetooth device (Supply by the Applicant) during the test.

For the Test Antenna:

(a) In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

Preliminary Radiated Emission Test				
Frequency Range Investigated			30 MHz To 1000 MHz	
Mode of operation	Date	Report No.	Data#	Worst Mode
Idle Mode	2014-04-08	BZT140401E01	CHIC MINI D113_1_(L, N)	<input type="checkbox"/>
Call Mode	2014-04-08	BZT140401E01	CHIC MINI D113_2_(L, N)	<input type="checkbox"/>
MP3/MP4Mode	2014-04-08	BZT140401E01	CHIC MINI D113_3_(L, N)	<input type="checkbox"/>
FM Mode	2014-04-08	BZT140401E01	CHIC MINI D113_4_(L, N)	<input type="checkbox"/>
Bluetooth Mode	2014-04-08	BZT140401E01	CHIC MINI D113_5_(L, N)	<input type="checkbox"/>
USB Mode	2014-04-08	BZT140401E01	CHIC MINI D113_6_(L, N)	<input checked="" type="checkbox"/>

### 7.3 TEST RESULT

Form 9 KHz to 30MHz:

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs	Peak	Peak
					Limit	Margin
				Peak (dBuV/m)		
	H					
	H					
	H					
N/A						>20
	V					
	V					
	V					
N/A						>20

-Note: No test data was detected in below 30MHz.

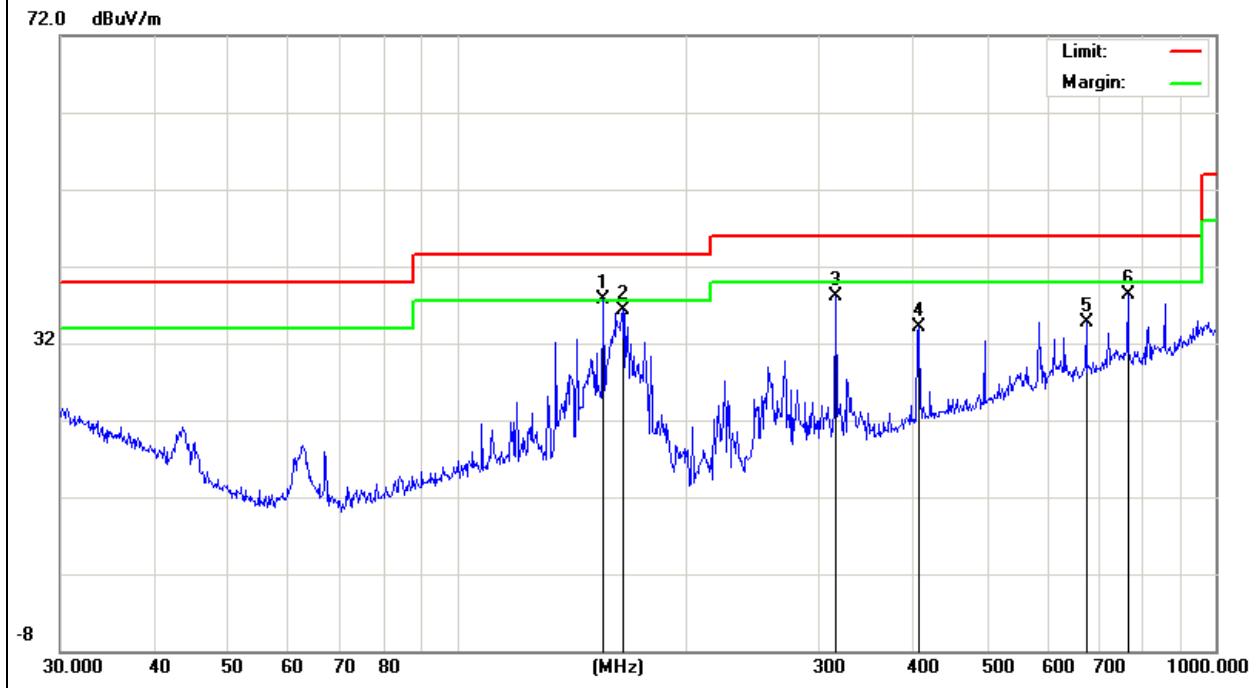
**Form 30MHz to 1000MHz:**

EUT :	Mobile phone	Model Name :	CHIC MINI D113
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V		
Test Mode :	USB Mode		

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
155.9100	26.53	11.19	37.72	43.50	-5.78	QP
165.4866	25.99	10.41	36.40	43.50	-7.10	QP
315.4806	23.39	14.66	38.05	46.00	-7.95	QP
406.0880	16.54	17.48	34.02	46.00	-11.98	QP
675.2078	12.63	22.14	34.77	46.00	-11.23	QP
766.0570	14.08	24.22	38.30	46.00	-7.70	QP

**Remark:**

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

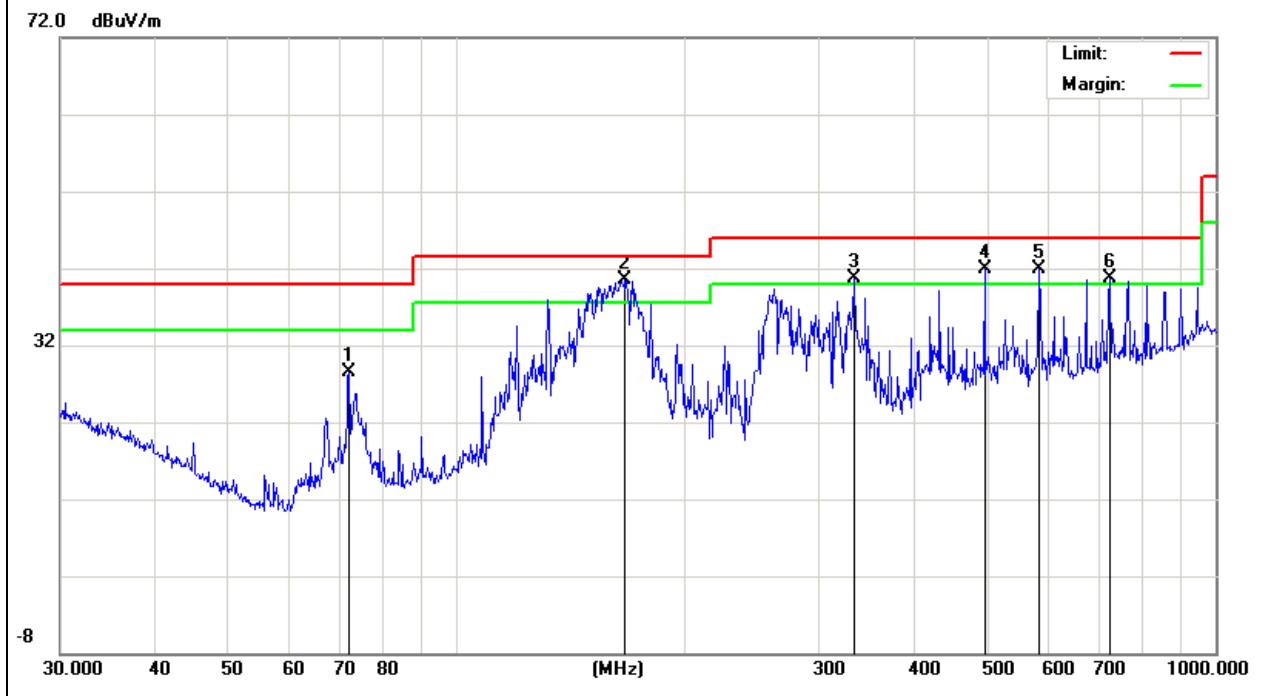


EUT :	Mobile phone	Model Name :	CHIC MINI D113
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V		
Test Mode :	USB Mode		

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
72.0841	22.19	6.28	28.47	40.00	-11.53	QP
166.6511	30.17	10.31	40.48	43.50	-3.02	QP
333.6865	25.61	15.00	40.61	46.00	-5.39	QP
495.9343	22.62	19.30	41.92	46.00	-4.08	QP
584.7894	21.05	20.83	41.88	46.00	-4.12	QP
724.2611	17.43	23.37	40.80	46.00	-5.20	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



The worst test data above 1 GHz was showed as the follow:

**Operation Mode:** USB Mode

**Test Date:** 2014-04-08

**Temperature:** 24°C

**Humidity:** 55 % RH

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF (dB)	Actual Fs		Peak	AV	Peak	AV
							Limit	Limit	Margin	Margin
1113.77	H	59.76	41.80	5.19	64.95	46.99	74.00	54.00	-9.05	-7.01
2885.51	H	50.45	37.98	10.60	61.05	48.58	74.00	54.00	-12.95	-5.42
N/A										>20
1113.77	V	55.94	37.98	5.19	61.13	43.17	74.00	54.00	-12.87	-10.83
2885.51	V	54.63	37.64	10.60	65.23	48.24	74.00	54.00	-8.77	-5.76
N/A										>20

**Notes:**

1. Measuring frequencies from 1 GHz to 12.75GHz.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
3. The frequency that above 3GHz is mainly from the environment noise.

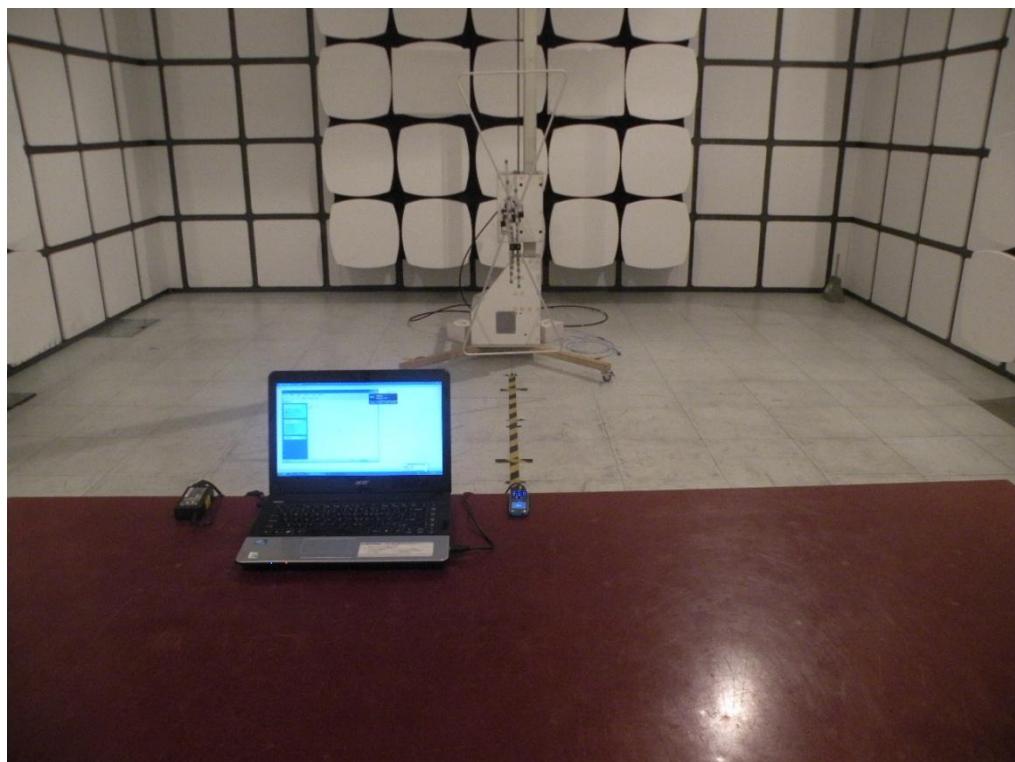
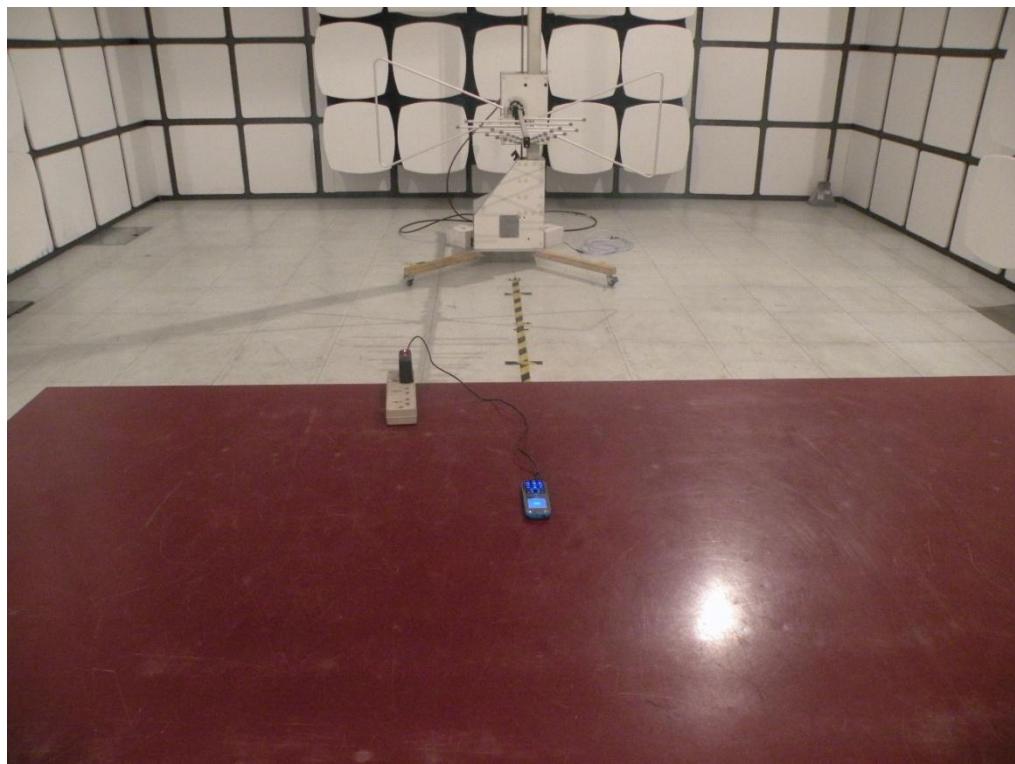
**APPENDIX 1**  
**PHOTOGRAPHS OF TEST SETUP**

## CE TEST SETUP

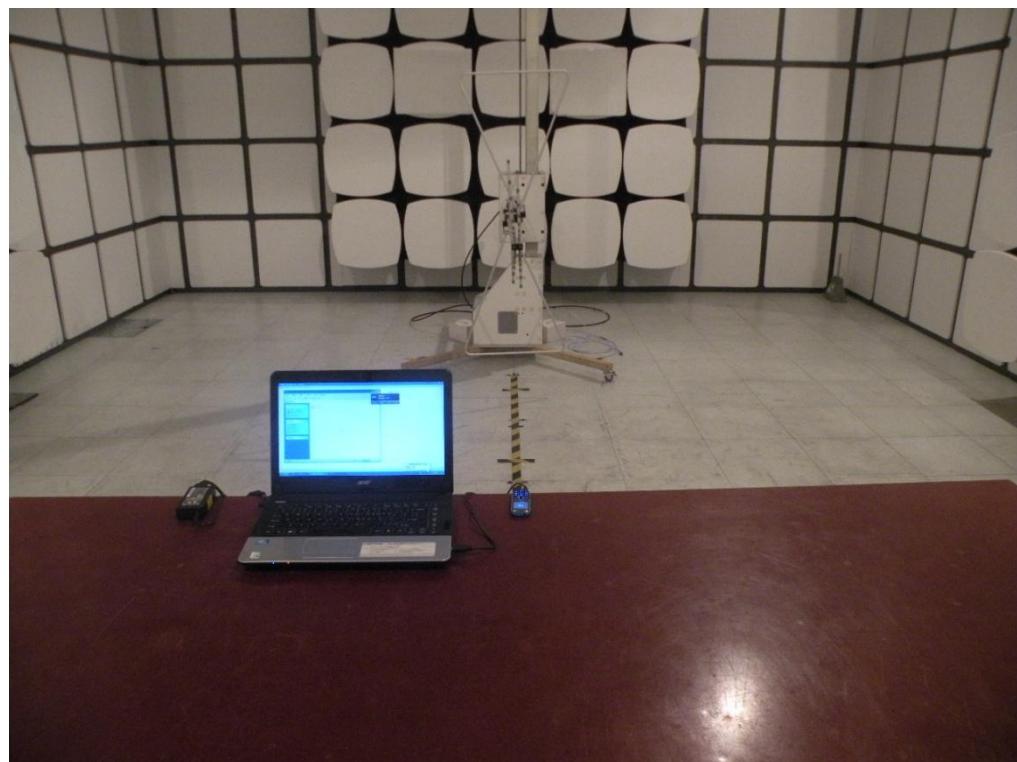
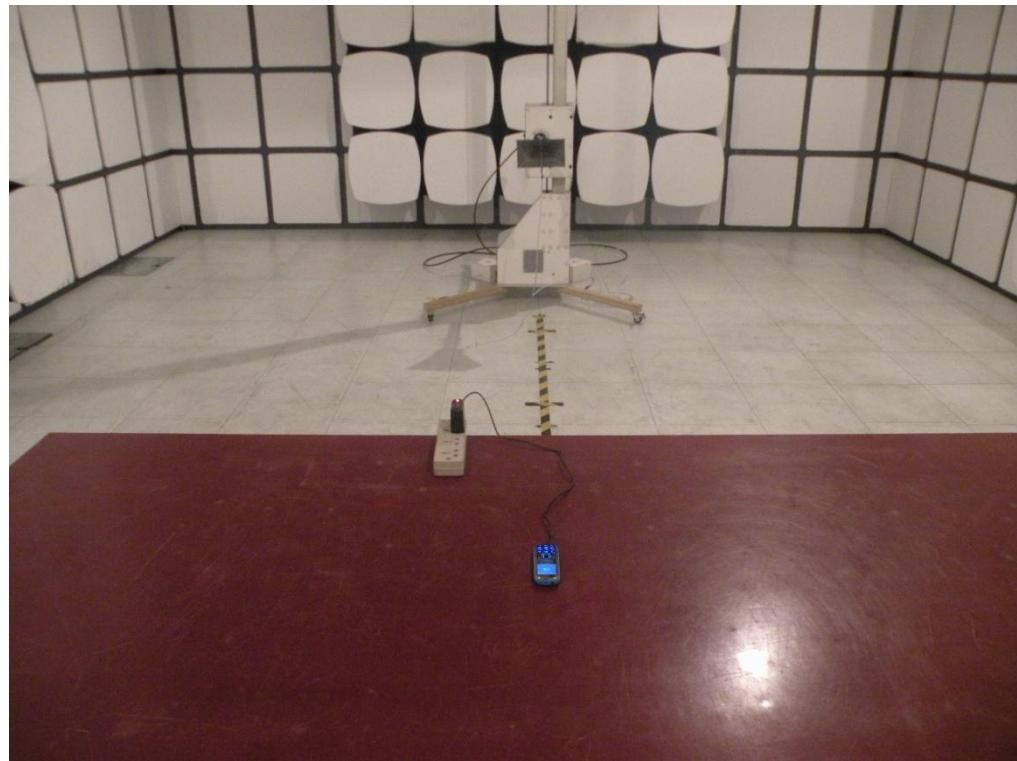


## RE TEST SETUP

Blow 1GHz



Above 1GHz



-----END OF REPORT-----