



# **FCC 47 CFR PART 15 SUBPART B**

## **TEST REPORT**

*For*

**Applicant: Newport Wholesale**

**Address: 11037 warner AVE#201, Fountain valley, CA 92708, USA**

**Product Name: GSM Mobile Phone**

**Model Name: BB- 9, BB1000WT, BB2011WT**

**Brand Name: MAXWEST**

**FCC ID: YNFBB9**

**Report No.: STS100705F1**

**Date of Issue: July. 26, 2010**

**Issued by: Shenzhen Super Test Service Technology Co., Ltd.**

**Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park,  
Nanshan, Shenzhen, Guangdong, China**

**Tel: 86-755-2795 8522**

**Fax: 86-755-2795 8022**

*The report consists 46 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by STS. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver.*

## TABLE OF CONTENTS

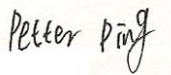
1. VERIFICATION OF CONFORMITY .....	3
2. GENERAL INFORMATION .....	4
2.1 PRODUCT INFORMATION.....	4
2.2 OBJECTIVE .....	5
2.3 TEST STANDARDS AND RESULTS.....	5
2.4 ENVIRONMENTAL CONDITIONS .....	5
3. TEST FACILITY.....	6
4. TEST EQUIPMENT LIST .....	7
5. 47 CFR PART 15B REQUIREMENTS .....	8
5.1 GENERAL INFORMATION.....	8
6. LINE CONDUCTED EMISSION TEST .....	10
6.1. LIMITS OF LINE CONDUCTED EMISSION TEST .....	10
6.2. BLOCK DIAGRAM OF TEST SETUP.....	10
6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST .....	11
6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST .....	11
6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST .....	12
7. RADIATED EMISSION TEST .....	20
7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B .....	20
7.2 TEST DESCRIPTION.....	20
7.3 TEST RESULT .....	22
APPENDIX 1 .....	32
PHOTOGRAPHS OF TEST SETUP.....	32
APPENDIX 2 .....	37
PHOTOGRAPHS OF EUT .....	37


**1. VERIFICATION OF CONFORMITY**

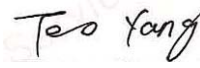
**Equipment Under Test:** GSM Mobile Phone  
**Brand Name:** MAXWEST  
**Model Number:** BB-9  
**Series Model Name:** BB1000WT, BB2011WT  
**Series Model Difference description:** Only the model name and the colors of appearance is different.  
**FCC ID:** YNFB9  
**Applicant:** Newport Wholesale  
11037 warner AVE#201, Fountain valley, CA 92708, USA  
**Manufacturer:** SHENZHEN PHONE-TALK TECHNOLOGY CO., LTD.  
TOWER B 1209, TIAN AN HIGH-TECH PLAZA PHASE I , FUTIAN,  
SHENZHEN, P.R. CHINA  
**Technical Standards:** FCC Part 15 B  
**File Number:** STS100705F1  
**Date of test:** July. 21 ~ July. 26, 2010  
**Deviation:** None  
**Condition of Test Sample:** Normal  
**Test Result:** PASS

The above equipment was tested by Shenzhen Super Test Service Technology Co., Ltd. for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

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

Tested by (+ signature):   
\_\_\_\_\_  
Petter Ping July. 26, 2010

Review by (+ signature):   
\_\_\_\_\_  
July Wen July. 26, 2010

Approved by (+ signature):   
\_\_\_\_\_  
Terry Yang July. 26, 2010

## 2. GENERAL INFORMATION

### 2.1 PRODUCT INFORMATION

EUT1- Mobile Phone	
Description:	GSM Mobile Phone
Model Name:	BB-9
Serial No.:	BB1000WT, BB2011WT
Model Difference description:	Only the model name and the colors of appearance are different.
IMEI No.:	358865035995228/ 358865036197220
Frequency:	GSM 850MHz/1900MHz
Hardware Version:	MT6223,E05
Software Version:	F96Z08E3v01[1].01b05_20100422
EUT2- Battery	
Description:	Lithium-ion Battery
Model Name:	BL-5F
Brand Name:	iPro
Manufacturer:	SHENZHEN HENGSHENG TONG TECHNOLOGY CO., LTD.
Capacitance:	950 mAh
Rated Voltage:	3.7V
Charge Limit:	4.2V
EUT3 – Power Supply	
Description:	Travel Charger
Model Name:	I6
Brand Name:	iPro
Manufacturer:	SHENZHEN YUANSHENGGAO TECHNOLOGY CO., LTD.
Rated Input:	AC 100-240V, 50/60HZ 300mA
Rated Output:	DC 5.0V, 500mA
Length DC power cable:	1.40m
Length USB cable:	1.00m

#### NOTE:

1. The EUT is a model of GSM Portable Mobile Station (MS). It consists of **hand telephone set, Lithium battery, headphone, USB cable** 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 STANDARDS AND 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)	§15.107	Conducted Emission	PASS	Meet Class B limit
	§15.109	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

Test Site:	Most Technology Service Co.,ltd
Location:	No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	<p>There is one 3m semi-anechoic an area test sites 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. The FCC Registration Number is <b>490827</b>.</p> <p>The <b>CNAS</b> Registration Number is <b>CNAS L3573</b>.</p>
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

#### 4. 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 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calculator due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2011/03/14
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2011/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2011/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2011/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2011/03/14
7	Bilog Antenna	Sunol	JB3	A121206	2011/03/14
8	Test Antenna - Horn	Schwarzbeck	BBHA 9120C	--	2011/03/14
9	Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	--	2011/03/14
10	Cable	Resenberger	N/A	NO.1	2011/03/14
11	Cable	SchwarzBeck	N/A	NO.2	2011/03/14
12	Cable	SchwarzBeck	N/A	NO.3	2011/03/14
13	DC Power Filter	DuoJi	DL2×30B	N/A	2011/03/14
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2011/03/14
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2011/03/14
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2011/03/14
17	Absorbing Clamp	Luthi	MDS21	3635	2011/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14
19	AC Power Source	Kikusui	AC40MA	LM003232	2011/03/14
20	Test Analyzer	Kikusui	KHA1000	LM003720	2011/03/14
21	Line Impedence Network	Kikusui	LIN40MA-PCR-L	LM002352	2011/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2011/03/14
23	EMC PRO System	EM Test	UCS-500-M4	V0648102026	2011/03/14
24	Signal Generator	IFR	2032	203002/100	2011/03/14
25	Amplifier	A&R	150W1000	301584	2011/03/14
26	CDN	FCC	FCC-801-M2-25	47	2011/03/14
27	CDN	FCC	FCC-801-M3-25	107	2011/03/14
28	EM Injection Clamp	FCC	F-203I-23mm	403	2011/03/14
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2011/03/14
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2011/03/14
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2011/03/14

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

## 5. 47 CFR PART 15B REQUIREMENTS

### 5.1 GENERAL INFORMATION

#### EUT Function and Test Mode

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

#### 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+ Earphone+ Charger**.

#### Mode 3: GPRS Mode

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

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

#### Mode 4: 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 5: 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** (Thinkpad X200, SN: R90GK93).

#### Mode 6: Camera Mode

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

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

#### Mode 7: Bluetooth Mode

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 EUT and the Bluetooth Earphone and a System Simulator (SS).

The MS operated at GSM 850/1900MHz mid and maximum output power.



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

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

**Mode 8: FM Mode**

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

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

## 6. LINE CONDUCTED EMISSION TEST

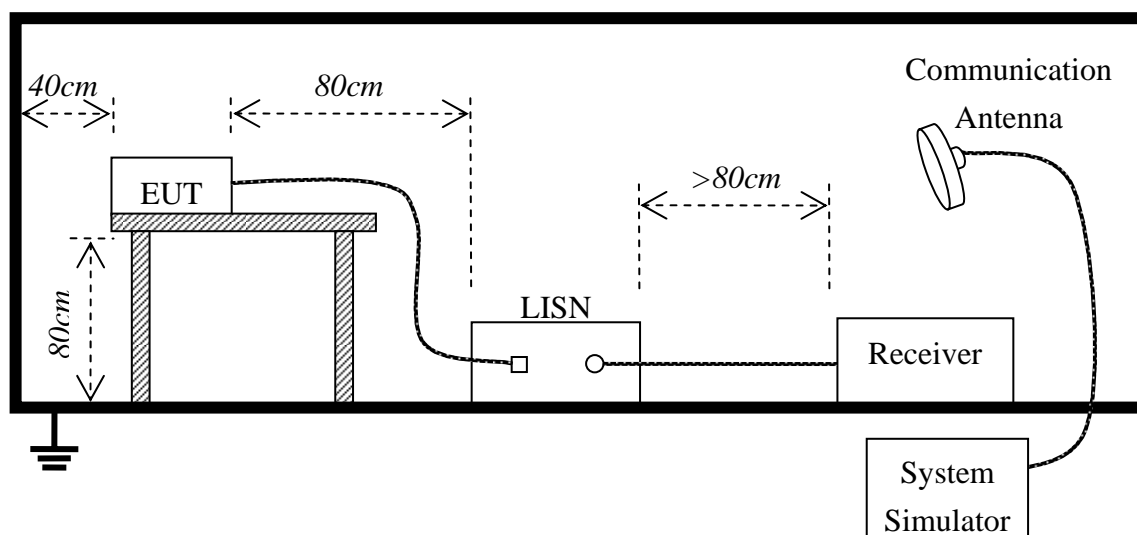
### 6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 AC120V/60Hz power 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 AC 120V/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 150 kHz to 30 MHz 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	2010-07-22	STS100705F1	BB- 9_1_(L, N)	<input checked="" type="checkbox"/>
Call Mode	2010-07-22	STS100705F1	BB- 9_2_(L, N)	<input type="checkbox"/>
GPRS Mode	2010-07-22	STS100705F1	BB- 9_3_(L, N)	<input type="checkbox"/>
MP3/MP4 Mode	2010-07-22	STS100705F1	BB- 9_4_(L, N)	<input type="checkbox"/>
USB Mode	2010-07-22	STS100705F1	BB- 9_5_(L, N)	<input type="checkbox"/>
Camera Mode	2010-07-22	STS100705F1	BB- 9_6_(L, N)	<input type="checkbox"/>
Bluetooth Mode	2010-07-22	STS100705F1	BB- 9_7_(L, N)	<input 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.

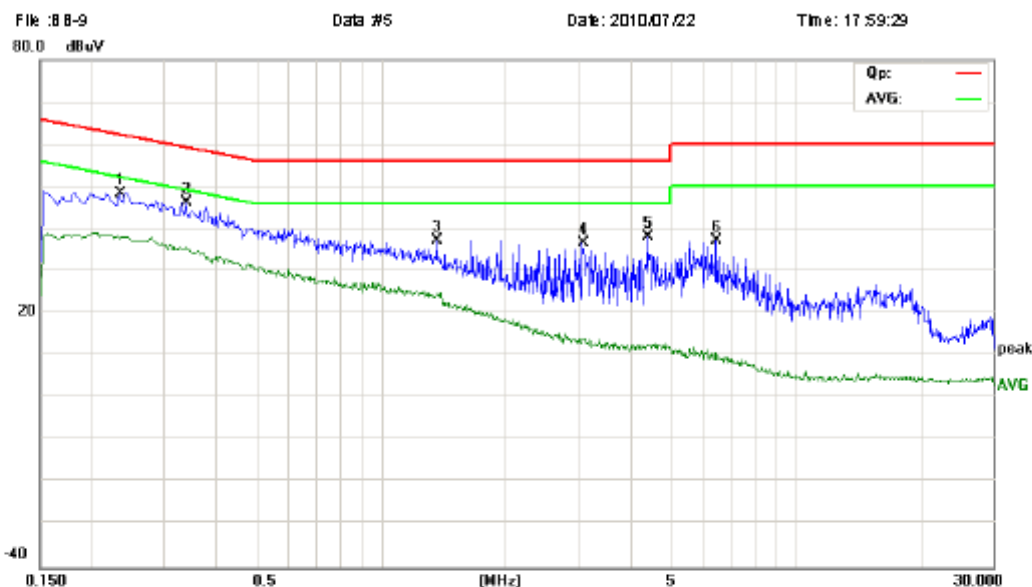
The test data of the worst case condition(s) was reported on the Summary Data page.

## 6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

## Conducted Emission Measurement



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: BB-9

Mode: MP3 MODE

Note:

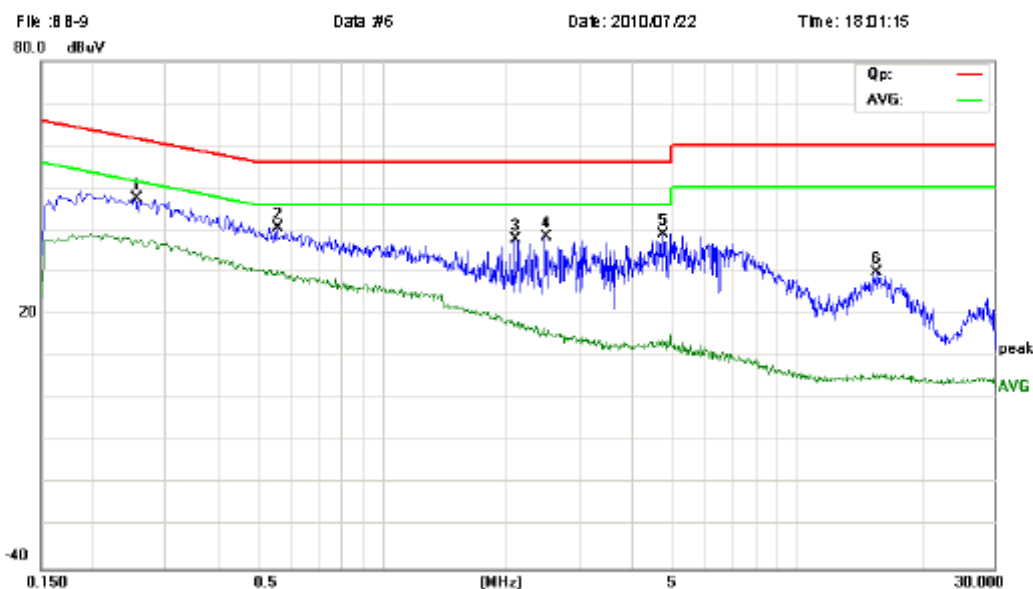
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1		0.2340	36.62	11.77	48.39	62.31	-13.92	peak	
2	*	0.3380	35.13	11.08	46.21	59.25	-13.04	peak	
3		1.3660	27.65	9.63	37.28	56.00	-18.72	peak	
4		3.0700	26.59	10.07	36.66	56.00	-19.34	peak	
5		4.3900	26.74	11.39	38.13	56.00	-17.87	peak	
6		6.4300	25.98	11.14	37.12	60.00	-22.88	peak	

\*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Conducted Emission Measurement



Site: site #1

Phase: **L1**

Temperature: 26

Limit: FCC Part 15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: BB-9

Mode: MP3 MODE

Note:

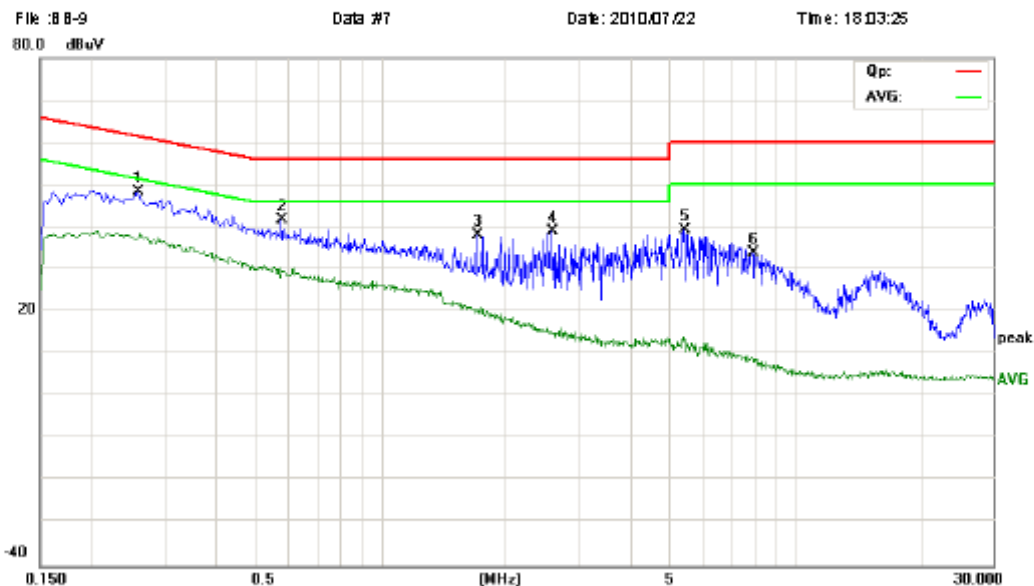
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1	*	0.2540	35.89	11.64	47.53	61.63	-14.10	peak	
2		0.5580	30.58	10.00	40.58	56.00	-15.42	peak	
3		2.0900	28.67	9.09	37.76	56.00	-18.24	peak	
4		2.4860	29.02	9.49	38.51	56.00	-17.49	peak	
5		4.7660	27.35	11.77	39.12	56.00	-16.88	peak	
6		15.5580	21.05	9.00	30.05	60.00	-29.95	peak	

\*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Conducted Emission Measurement



Site site #1

Phase: **L1**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: BB-9

Mode: CAMERA MODE

Note:

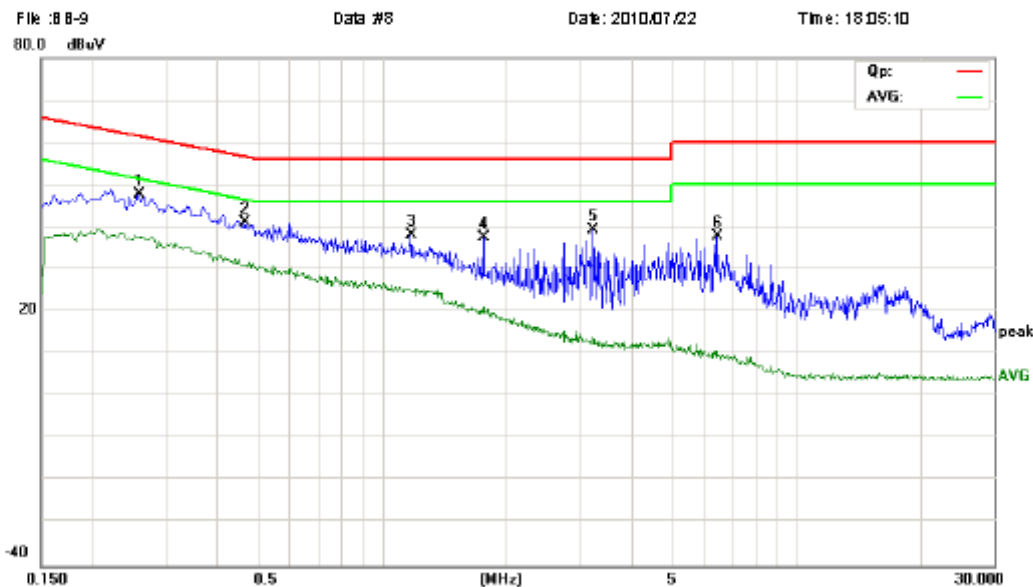
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1	*	0.2580	36.87	11.61	48.48	61.50	-13.02	peak	
2		0.5740	31.82	10.00	41.82	56.00	-14.18	peak	
3		1.7060	28.81	9.29	38.10	56.00	-17.90	peak	
4		2.5940	29.35	9.59	38.94	56.00	-17.06	peak	
5		5.3660	27.52	11.78	39.30	60.00	-20.70	peak	
6		7.8860	23.68	10.27	33.95	60.00	-26.05	peak	

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Conducted Emission Measurement



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: BB-9

Mode: CAMERA MODE

Note:

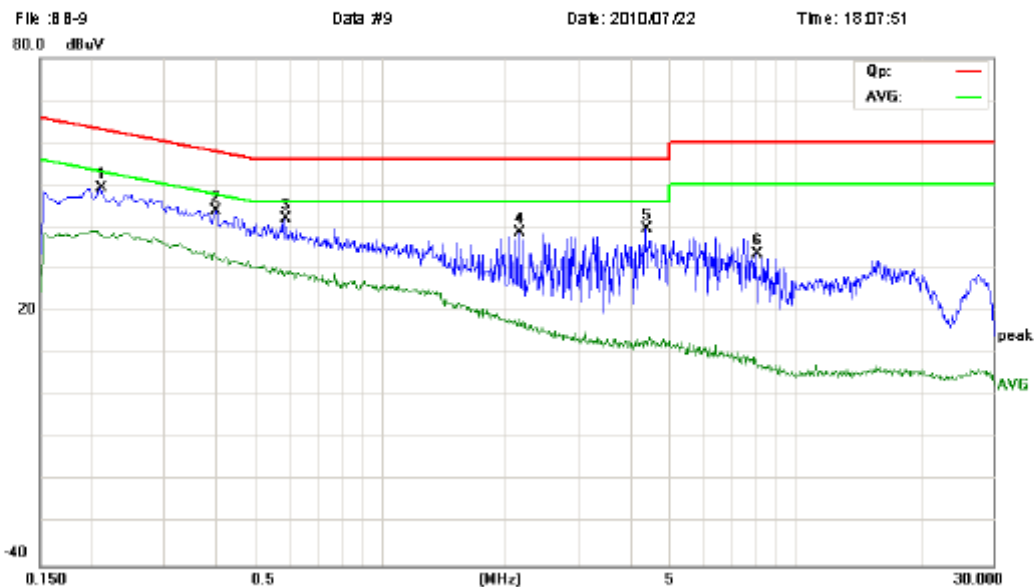
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.2580	36.05	11.61	47.66	61.50	-13.84	peak	
2		0.4660	30.81	10.23	41.04	56.58	-15.54	peak	
3		1.1700	28.19	9.83	38.02	56.00	-17.98	peak	
4		1.7540	28.29	9.25	37.54	56.00	-18.46	peak	
5		3.2180	29.27	10.22	39.49	56.00	-16.51	peak	
6		6.4420	26.82	11.13	37.95	60.00	-22.05	peak	

\*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Conducted Emission Measurement



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: BB-9

Mode: CALL MODE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1		0.2100	37.37	11.93	49.30	63.21	-13.91	peak	
2		0.3980	33.15	10.68	43.83	57.90	-14.07	peak	
3	*	0.5860	32.13	10.00	42.13	56.00	-13.87	peak	
4		2.1500	29.50	9.15	38.65	56.00	-17.35	peak	
5		4.3380	28.29	11.34	39.63	56.00	-16.37	peak	
6		8.0420	23.59	10.17	33.76	60.00	-26.24	peak	

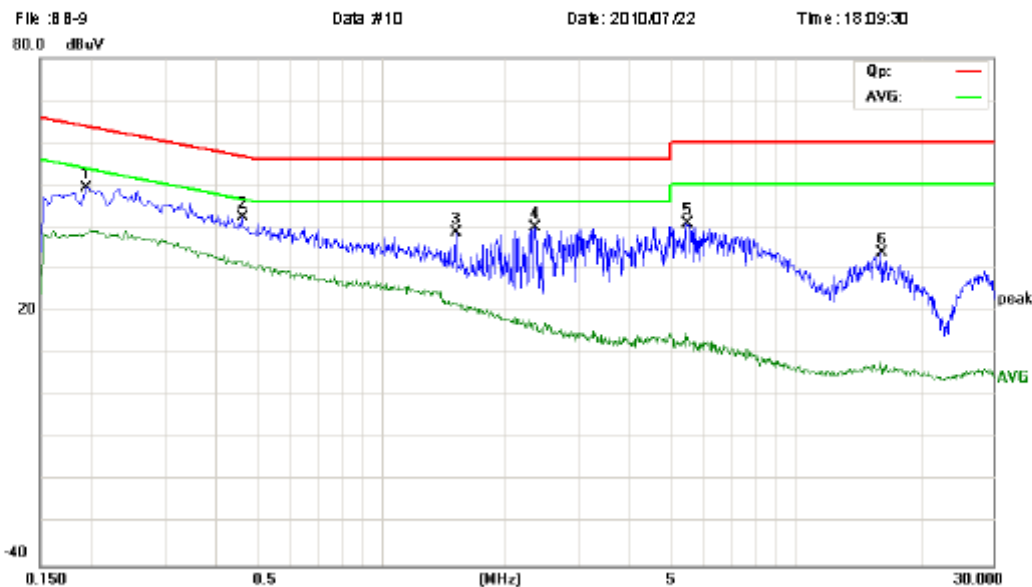
\*:Maximum data x:Over limit !:over margin





Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Conducted Emission Measurement



Site site #1

Phase: **L1**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: BB-9

Mode: CALL MODE

Note:

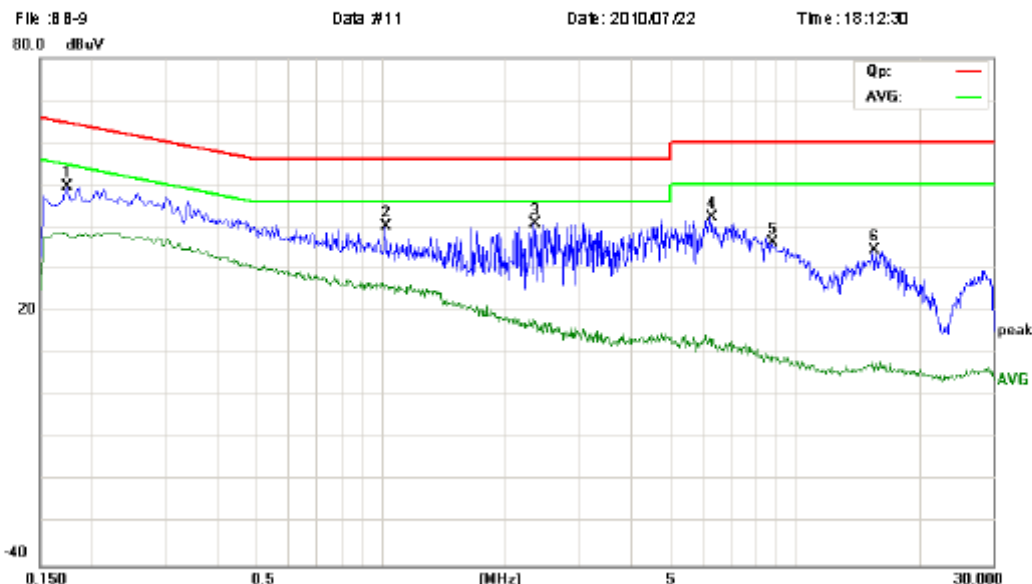
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1		0.1940	37.63	11.64	49.27	63.86	-14.59	peak	
2	*	0.4620	32.21	10.25	42.46	56.66	-14.20	peak	
3		1.5140	29.32	9.49	38.81	56.00	-17.19	peak	
4		2.3460	30.69	9.35	40.04	56.00	-15.96	peak	
5		5.4660	29.28	11.72	41.00	60.00	-19.00	peak	
6		16.1340	24.81	9.00	33.81	60.00	-26.19	peak	

\*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Conducted Emission Measurement



Site site #1

Phase: **L1**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: BB-9

Mode: BLUETOOTH MODE

Note:

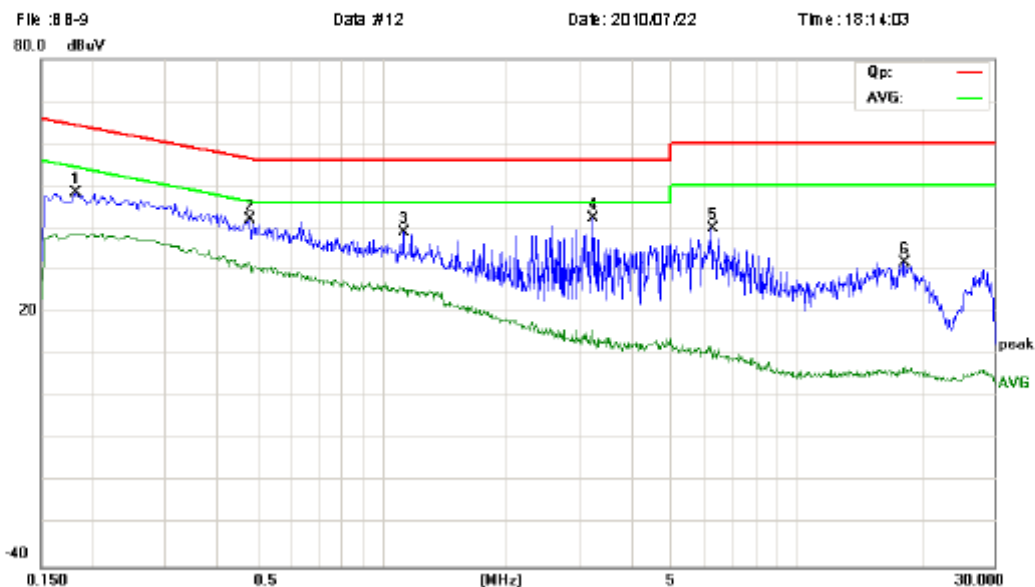
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1		0.1740	38.97	10.44	49.41	64.77	-15.36	peak	
2		1.0220	30.14	9.98	40.12	56.00	-15.88	peak	
3	*	2.3380	31.43	9.34	40.77	56.00	-15.23	peak	
4		6.2420	31.11	11.25	42.36	60.00	-17.64	peak	
5		8.7700	26.55	9.74	36.29	60.00	-23.71	peak	
6		15.4140	25.57	9.00	34.57	60.00	-25.43	peak	

\*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Conducted Emission Measurement



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V, 60Hz

Humidity: 60%

EUT: GSM MOBILE PHONE

M/N: BB-9

Mode: BLUETOOTH MODE

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1820	37.51	10.92	48.43	64.39	-15.96	peak	
2	0.4780	31.92	10.15	42.07	56.37	-14.30	peak	
3	1.1260	29.14	9.87	39.01	56.00	-16.99	peak	
4 *	3.2220	32.10	10.22	42.32	56.00	-13.68	peak	
5	6.2460	28.66	11.25	39.91	60.00	-20.09	peak	
6	18.1860	22.95	9.00	31.95	60.00	-28.05	peak	

\*:Maximum data x:Over limit !:over margin

## 7. RADIATED EMISSION TEST

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

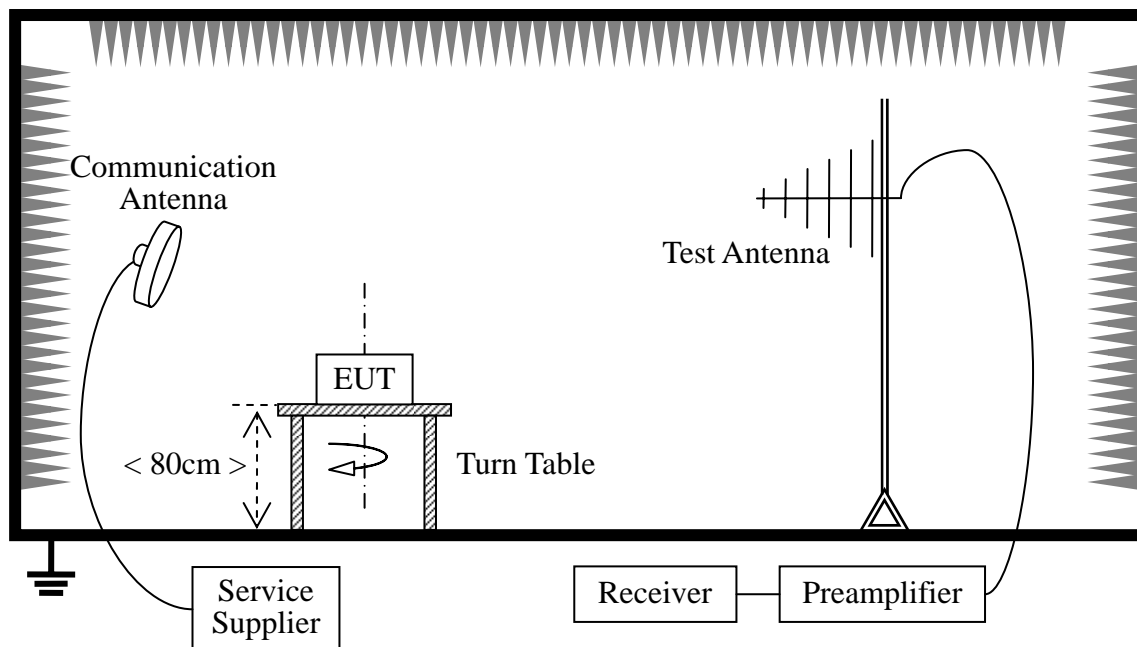
According to FCC section 15.109, except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

For frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

### 7.2 TEST DESCRIPTION

#### Test Setup:



The EUT is powered by the Battery. 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.

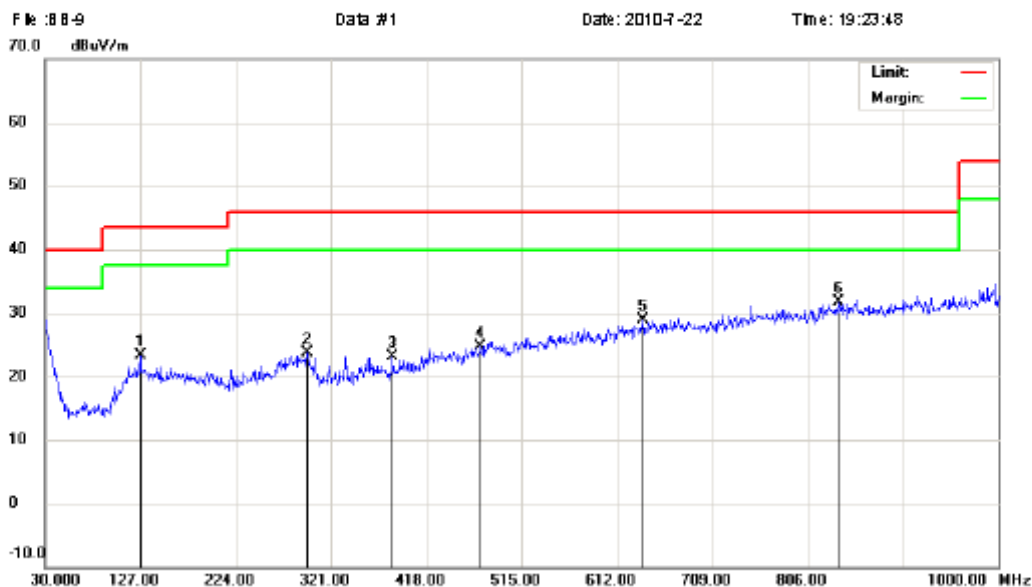
Preliminary Radiated Emission Test				
Frequency Range Investigated			30 MHz TO 1000 MHz	
Mode of operation	Date	Report No.	Data#	Worst Mode
Idle Mode	2010-07-22	STS100705F1	BB- 9_1_(H, V)	<input type="checkbox"/>
Call Mode	2010-07-22	STS100705F1	BB- 9_2_(H, V)	<input type="checkbox"/>
GPRS Mode	2010-07-22	STS100705F1	BB- 9_3_(H, V)	<input type="checkbox"/>
MP3/MP4 Mode	2010-07-22	STS100705F1	BB- 9_4_(H, V)	<input type="checkbox"/>
USB Mode	2010-07-22	STS100705F1	BB- 9_5_(H, V)	<input type="checkbox"/>
Camera Mode	2010-07-22	STS100705F1	BB- 9_6_(H, V)	<input checked="" type="checkbox"/>
Bluetooth Mode	2010-07-22	STS100705F1	BB- 9_7_(H, V)	<input type="checkbox"/>
FM Mode	2010-07-22	STS100705F1	BB- 9_8_(H, V)	<input type="checkbox"/>

## 7.3 TEST RESULT



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

## Radiated Emission Measurement



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: DC 3.7V

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: MP3 MODE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBμV	dB	dBμV/m	dBμV/m	dB	Detector	cm	degree
1		127.0000	5.65	17.70	23.35	43.50	-20.15	peak		
2		296.7500	4.47	19.30	23.77	46.00	-22.23	peak		
3		384.0500	4.85	18.18	23.03	46.00	-22.97	peak		
4		473.2900	3.29	21.33	24.62	46.00	-21.38	peak		
5		638.1900	5.06	23.93	28.99	46.00	-17.01	peak		
6	*	837.0400	4.54	27.10	31.64	46.00	-14.36	peak		

\*Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

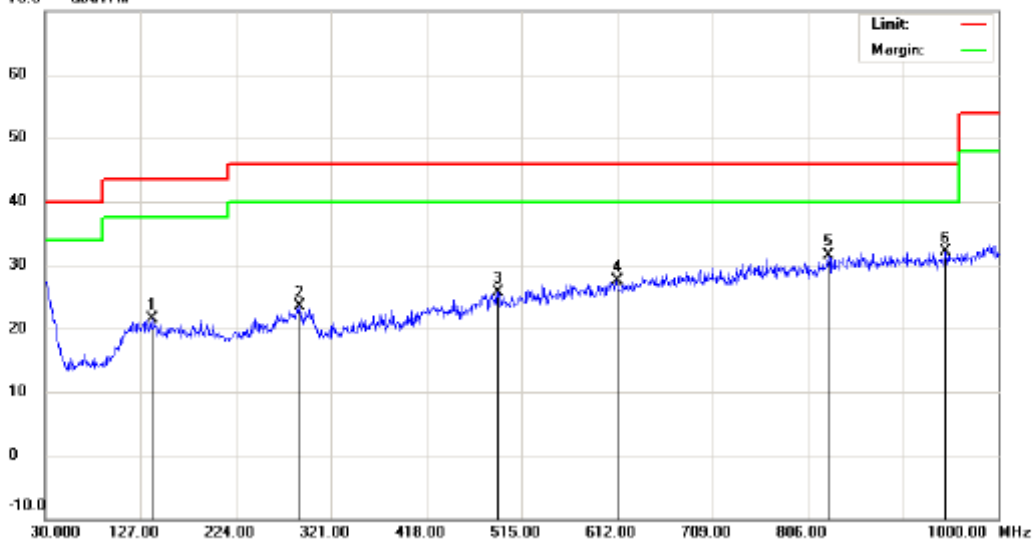
File: BB-9

Data #2

Date: 2010-7-22

Time: 19:24:18

70.0 dBuV/m



Site: site MOST 3M

Polarization: *Horizontal*

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: DC 3.7V

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: FM MODE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		138.6400	4.25	17.27	21.52	43.50	-21.98	peak		
2		288.9900	4.03	19.41	23.44	46.00	-22.56	peak		
3		490.7500	4.00	21.67	25.67	46.00	-20.33	peak		
4		611.0300	4.36	23.23	27.59	46.00	-18.41	peak		
5		827.3400	4.64	26.89	31.53	46.00	-14.47	peak		
6	*	946.6499	4.42	27.77	32.19	46.00	-13.81	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

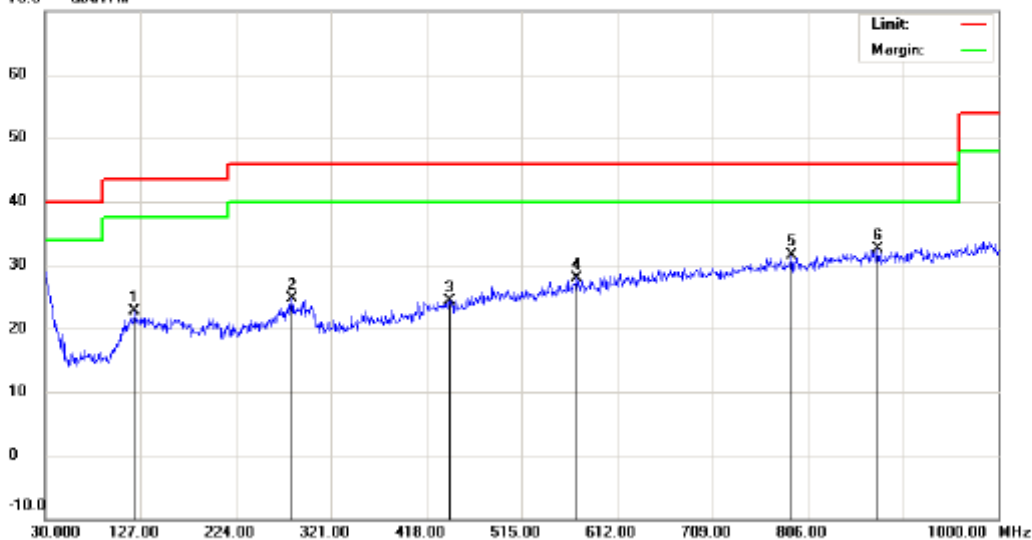
File: BB-9

Data: #3

Date: 2010-7-22

Time: 19:38:14

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Horizontal**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: IDLE MODE

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	121.1800	5.24	17.55	22.79	43.50	-20.71	peak		
2	281.2300	5.30	19.41	24.71	46.00	-21.29	peak		
3	441.2800	4.07	20.27	24.34	46.00	-21.66	peak		
4	571.2600	5.13	22.87	28.00	46.00	-18.00	peak		
5	789.5100	5.56	26.01	31.57	46.00	-14.43	peak		
6 *	877.7800	5.44	27.06	32.50	46.00	-13.50	peak		

\*:Maximum data    x:Over limit    !:over margin





Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

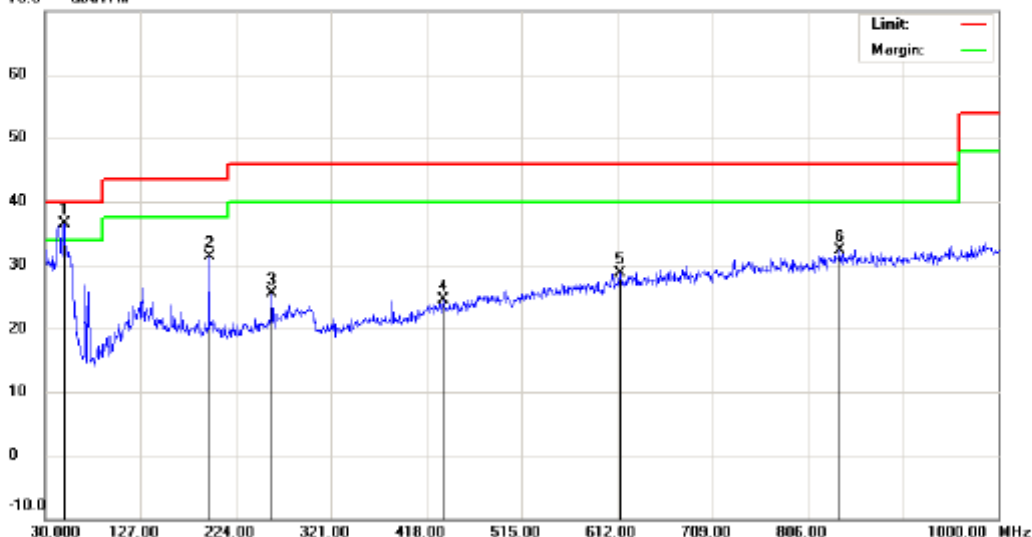
File: BB-9

Data #4

Date: 2010-7-22

Time: 19:39:30

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 25

Limit: FCC Part 15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: IDLE MODE

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	49.4000	24.85	11.58	36.43	40.00	-3.57	peak		
2		196.8400	14.22	17.05	31.27	43.50	-12.23	peak		
3		260.8600	7.72	17.71	25.43	46.00	-20.57	peak		
4		435.4600	4.07	20.34	24.41	46.00	-21.59	peak		
5		614.9100	5.31	23.35	28.66	46.00	-17.34	peak		
6		838.9800	5.15	27.10	32.25	46.00	-13.75	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

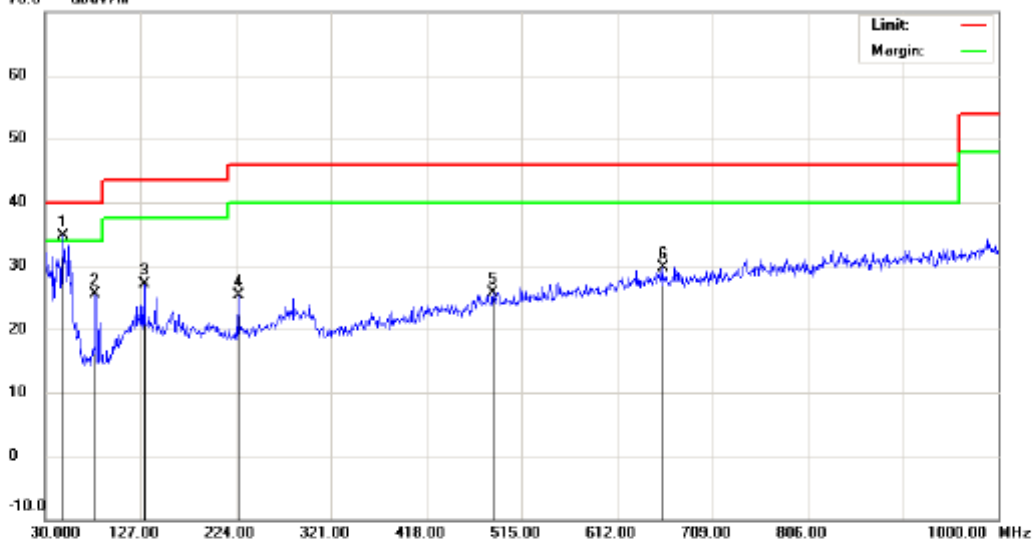
File: BB-9

Data #5

Date: 2010-7-22

Time: 19:41:01

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: MP3 MODE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	48.4300	22.68	12.02	34.70	40.00	-5.30	peak		
2		81.4100	14.07	11.37	25.44	40.00	-14.56	peak		
3		130.8800	9.39	17.66	27.05	43.50	-16.45	peak		
4		226.9100	8.77	16.44	25.21	46.00	-20.79	peak		
5		485.9000	3.90	21.78	25.68	46.00	-20.32	peak		
6		658.5600	5.43	24.20	29.63	46.00	-16.37	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

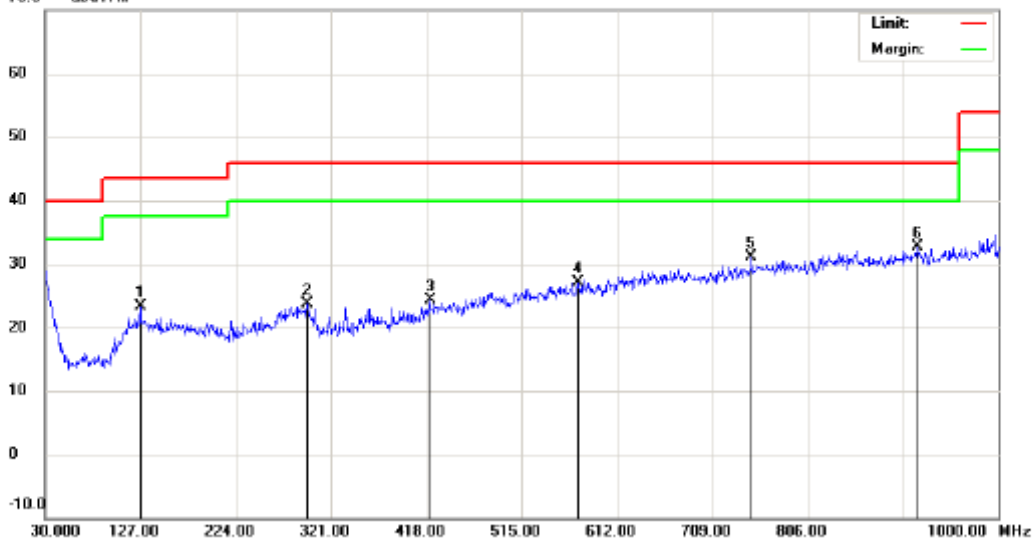
File: BB-9

Data: #6

Date: 2010-7-22

Time: 19:41:41

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Horizontal**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: MP3 MODE

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	127.0000	5.65	17.70	23.35	43.50	-20.15	peak		
2	296.7500	4.47	19.30	23.77	46.00	-22.23	peak		
3	421.8800	4.17	20.11	24.28	46.00	-21.72	peak		
4	572.2300	4.32	22.86	27.18	46.00	-18.82	peak		
5	748.7700	5.37	25.80	31.17	46.00	-14.83	peak		
6 *	917.5500	5.04	27.70	32.74	46.00	-13.26	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

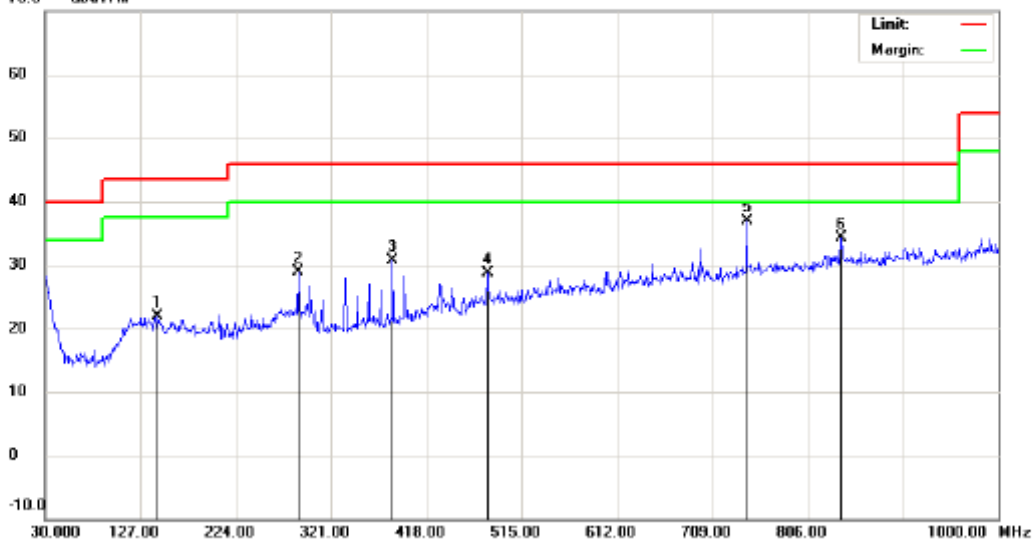
File: BB-9

Data: #7

Date: 2010-7-22

Time: 19:43:23

70.0 dBuV/m



Site: site MOST 3M

Polarization: *Horizontal*

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: CAMERA MODE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		144.4600	4.99	16.93	21.92	43.50	-21.58	peak		
2		288.0200	9.41	19.42	28.83	46.00	-17.17	peak		
3		384.0500	12.54	18.18	30.72	46.00	-15.28	peak		
4		480.0800	6.91	21.70	28.61	46.00	-17.39	peak		
5	*	743.9200	11.25	25.74	36.99	46.00	-9.01	peak		
6		839.9500	7.29	27.10	34.39	46.00	-11.61	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

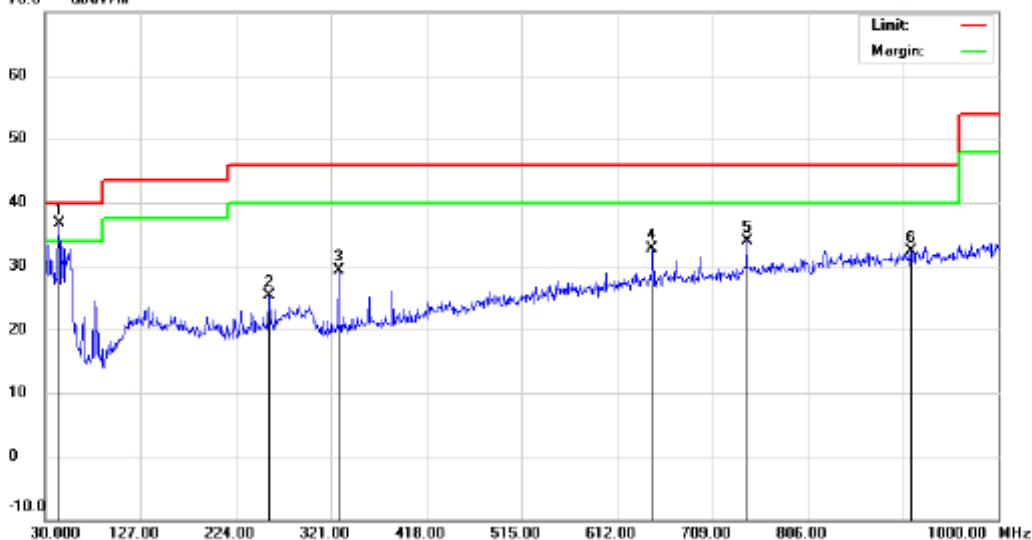
File: BB-9

Data #8

Date: 2010-7-22

Time: 19:44:30

70.0 dBuV/m



Site site MOST 3M

Polarization: **Vertical**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: CAMERA MODE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	44.5500	22.77	13.89	36.66	40.00	-3.34	peak		
2		257.9500	7.78	17.52	25.30	46.00	-20.70	peak		
3		328.7600	12.21	17.00	29.21	46.00	-16.79	peak		
4		647.8900	8.60	24.08	32.68	46.00	-13.32	peak		
5		743.9200	8.18	25.74	33.92	46.00	-12.08	peak		
6		910.7600	4.64	27.62	32.26	46.00	-13.74	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

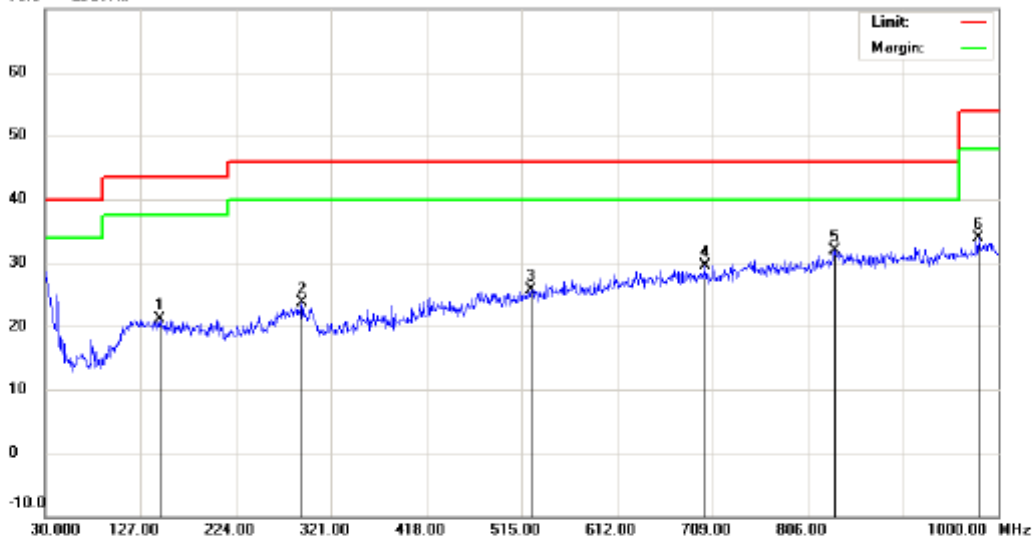
File: BB-9

Data: #9

Date: 2010-7-22

Time: 19:47:05

70.0 dBuV/m



Site: site MOST 3M

Polarization: *Horizontal*

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: BLUETOOTH MODE

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	146.4000	4.26	16.79	21.05	43.50	-22.45	peak		
2	291.9000	4.25	19.36	23.61	46.00	-22.39	peak		
3	524.7000	3.63	22.04	25.67	46.00	-20.33	peak		
4	702.2100	4.84	24.68	29.52	46.00	-16.48	peak		
5 *	833.1600	4.92	27.06	31.98	46.00	-14.02	peak		
6	979.6300	5.38	28.58	33.96	54.00	-20.04	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

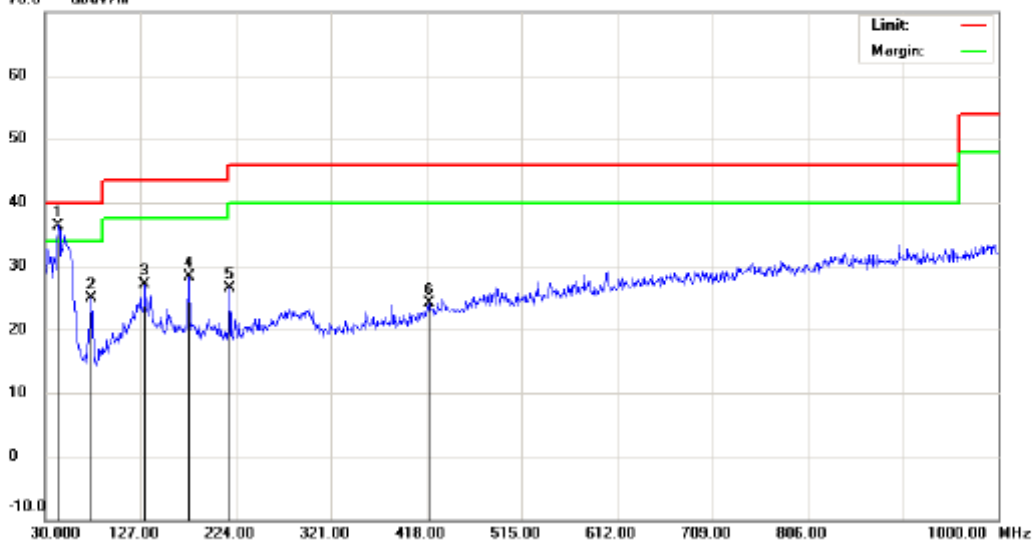
File: BB-9

Data #10

Date: 2010-7-22

Time: 19:48:12

70.0 dBuV/m



Site site MOST 3M

Polarization: **Vertical**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

Distance:

M/N: BB-9

Mode: BLUETOOTH MODE

Note:

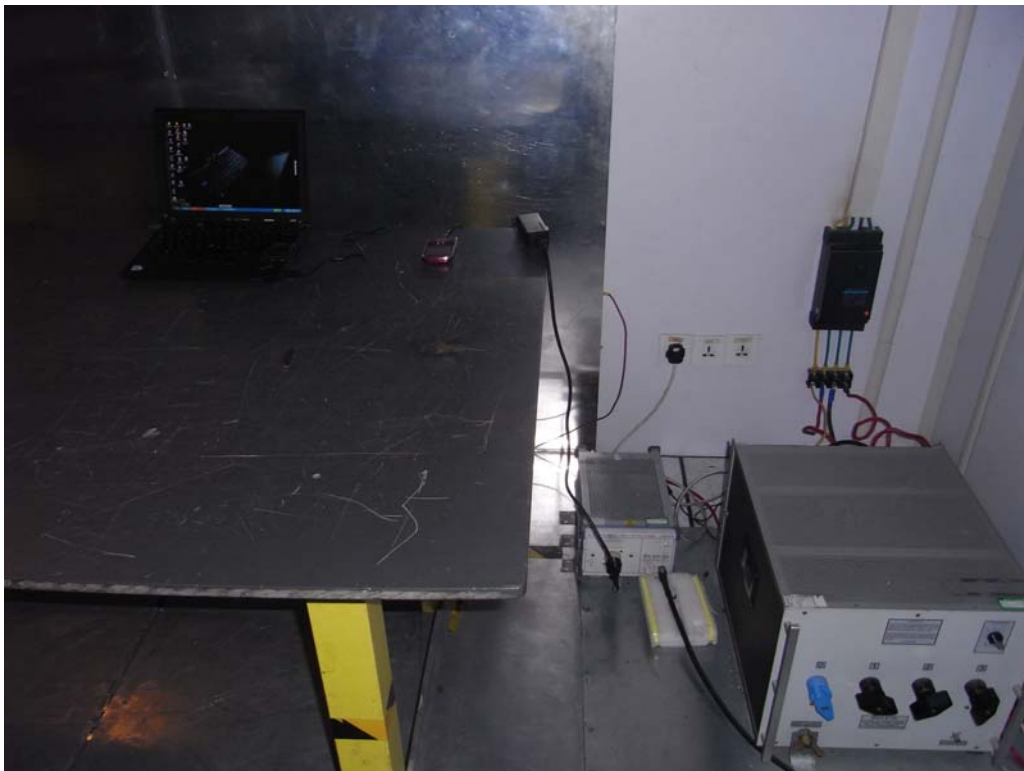
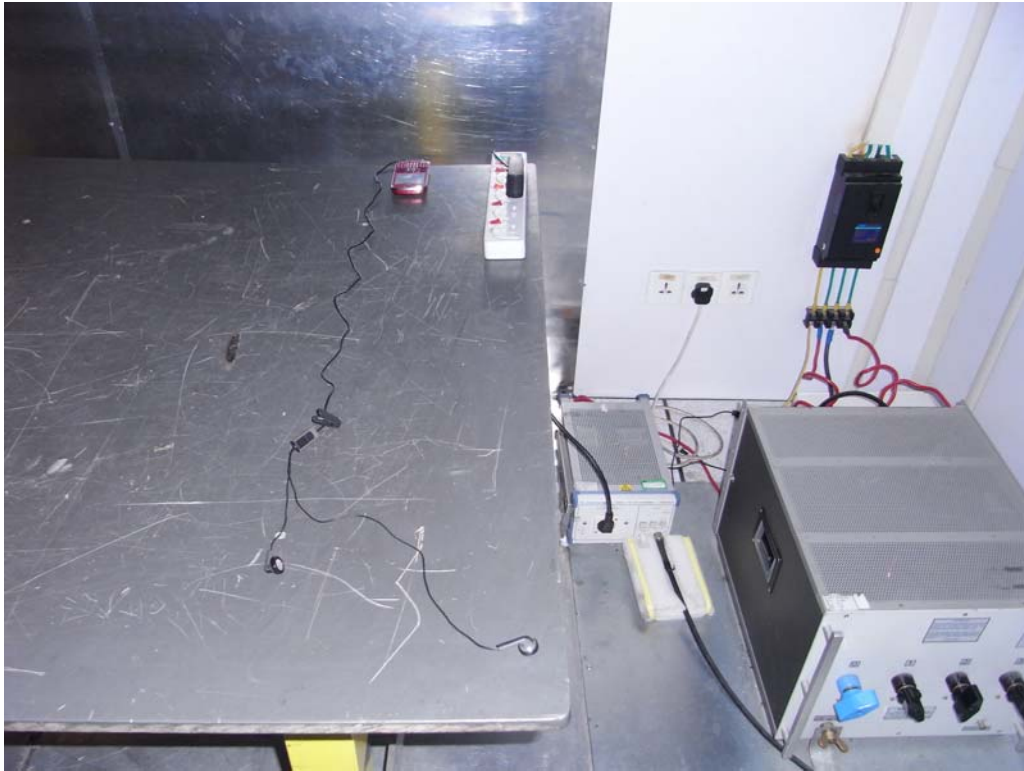
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	43.5800	21.89	14.51	36.40	40.00	-3.60	peak		
2		76.5600	13.32	11.57	24.89	40.00	-15.11	peak		
3		131.8500	9.54	17.61	27.15	43.50	-16.35	peak		
4		176.4700	11.38	16.88	28.26	43.50	-15.24	peak		
5		218.1800	10.23	16.22	26.45	46.00	-19.55	peak		
6		420.9100	4.13	20.05	24.18	46.00	-21.82	peak		

\*:Maximum data    x:Over limit    !:over margin

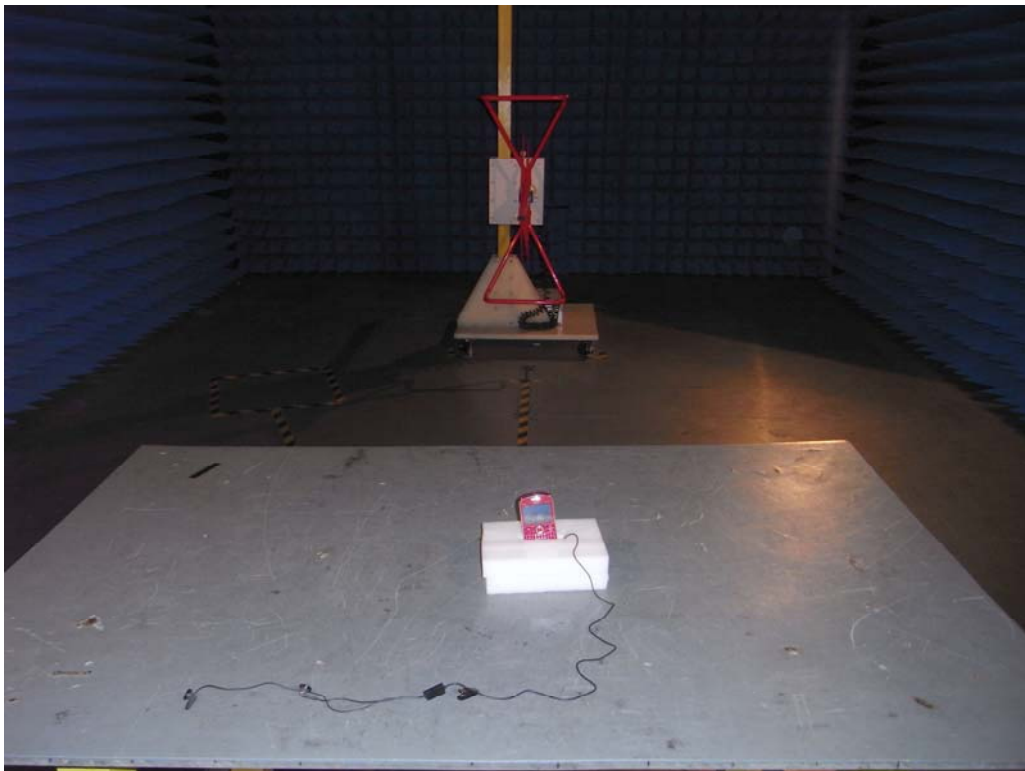
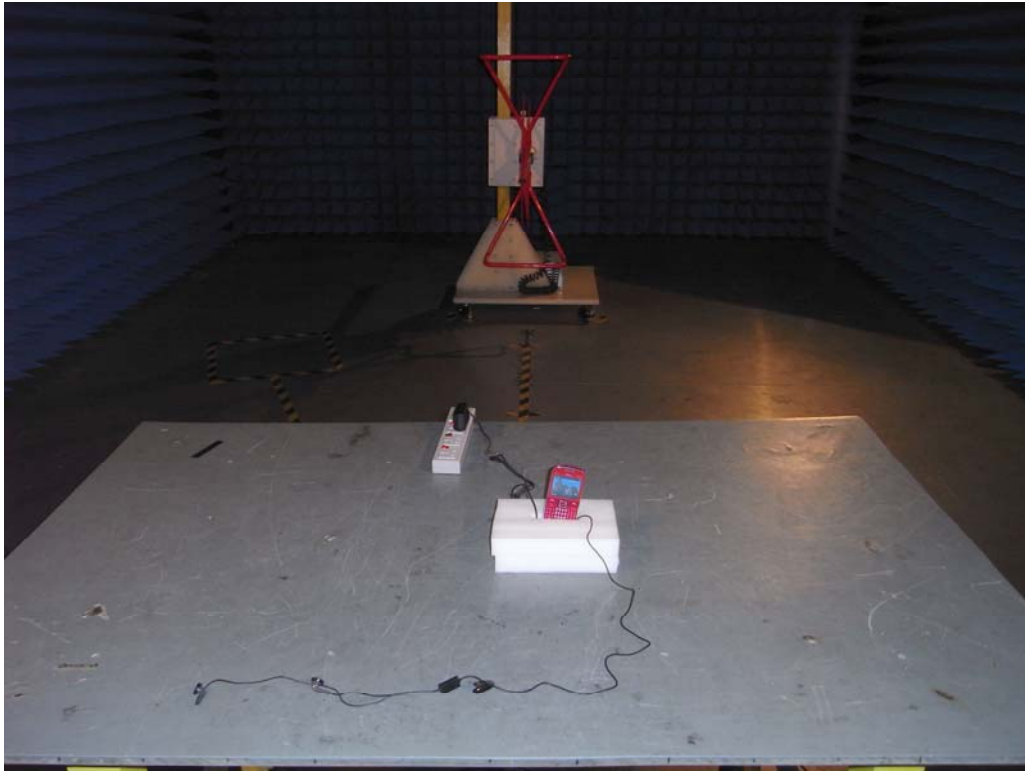
**APPENDIX 1**  
**PHOTOGRAPHS OF TEST SETUP**

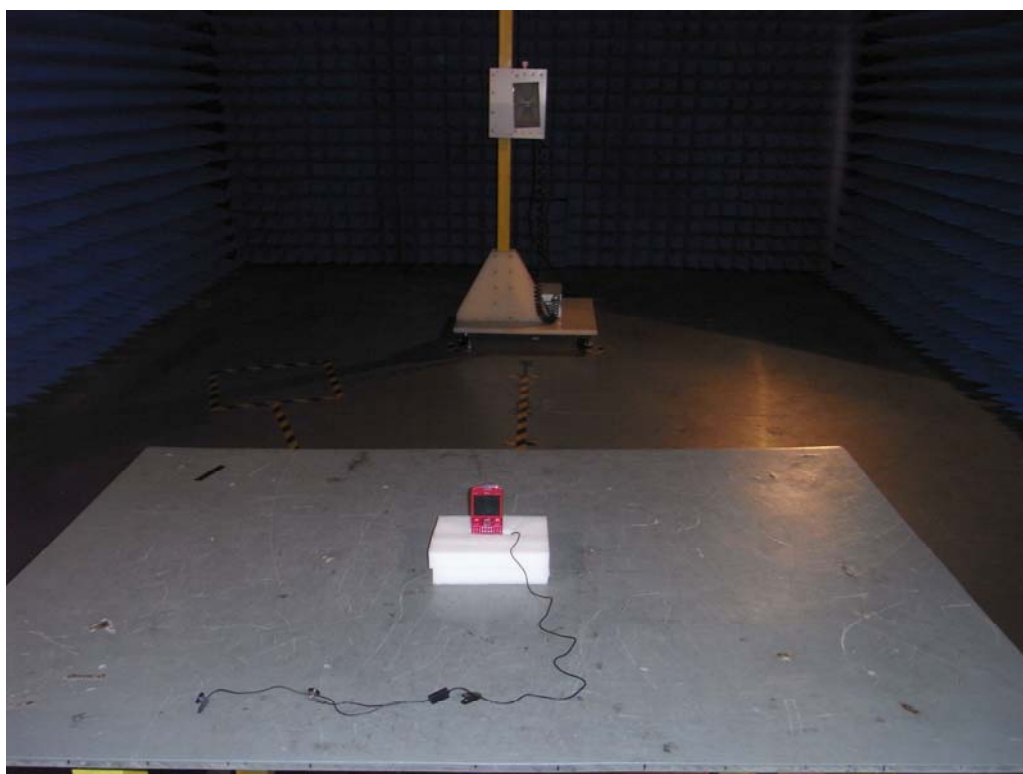
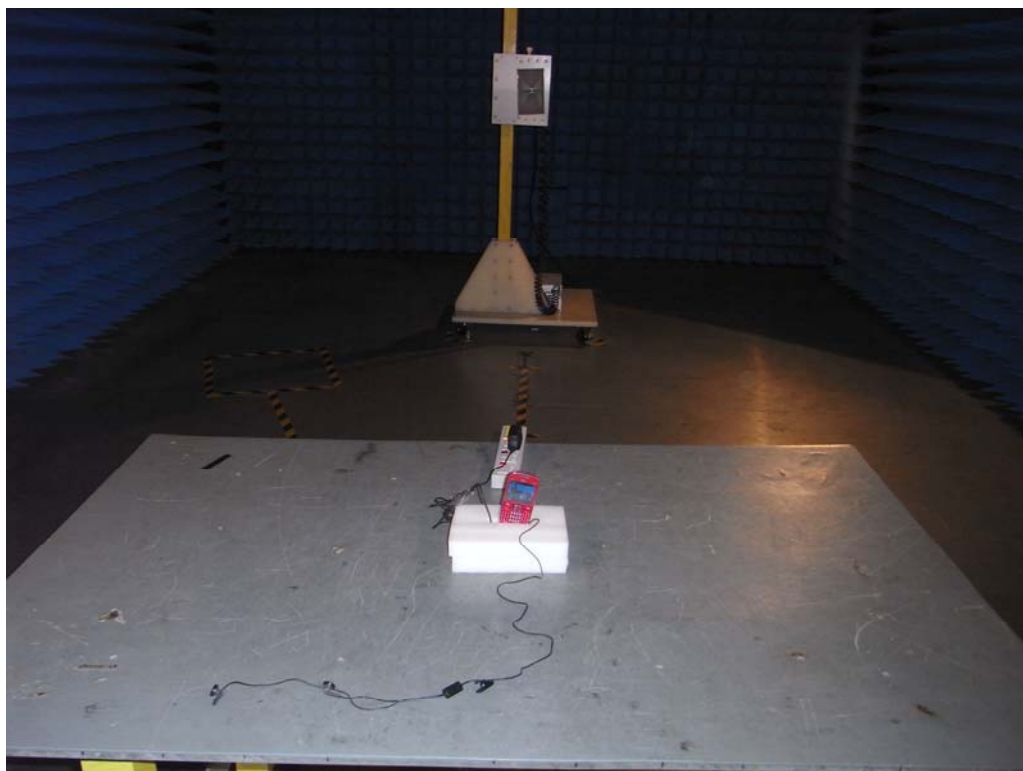


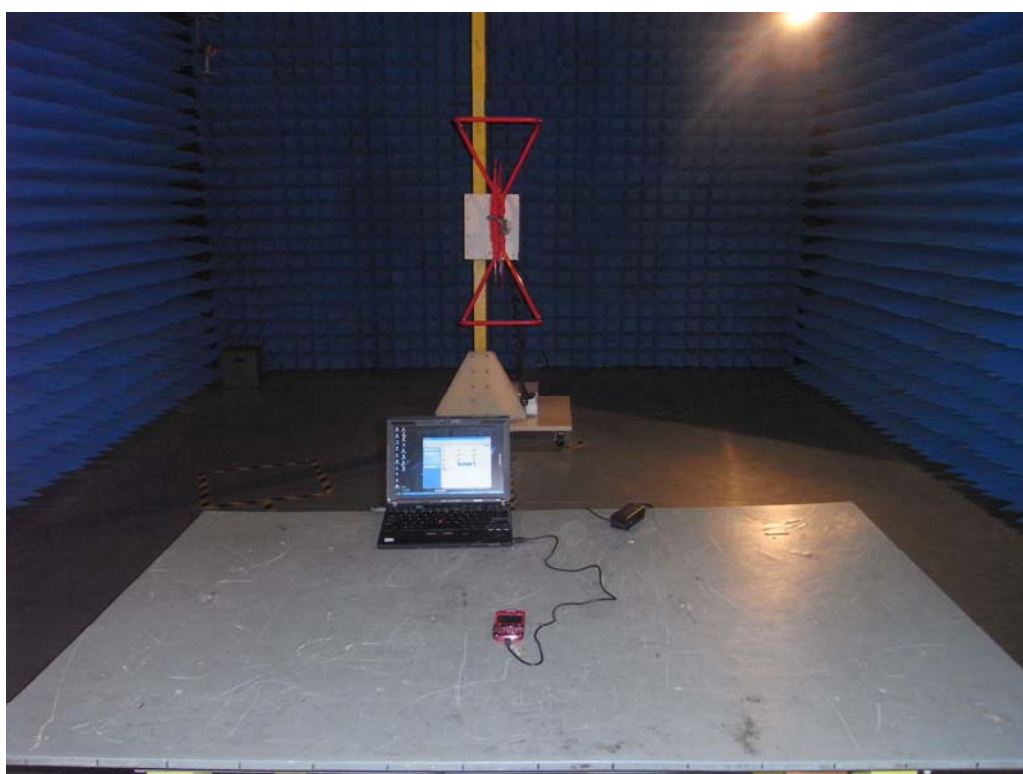
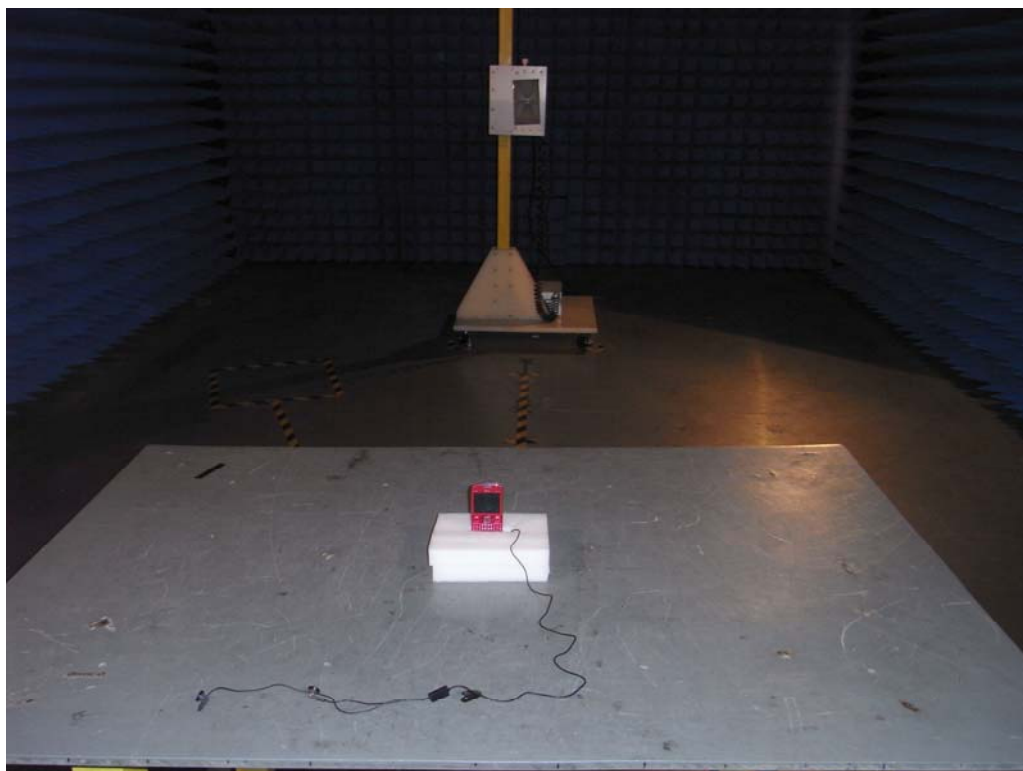
### CE TEST SETUP



RE TEST SETUP







## **APPENDIX 2 PHOTOGRAPHS OF EUT**



FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE





PHOTO OF POWER SUPPLY



PHOTO OF USB CABLE



PHOTO OF HEADPHONE



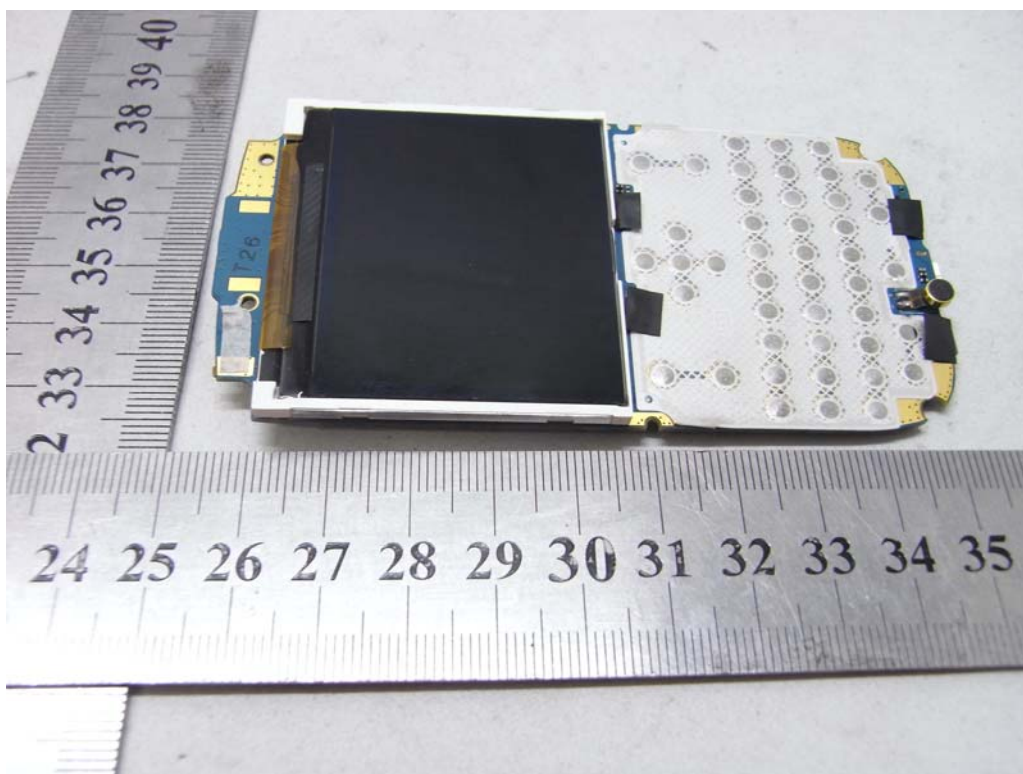
PHOTO OF BATTERY



PHOTO OF THE ENTIRE SAMPLE

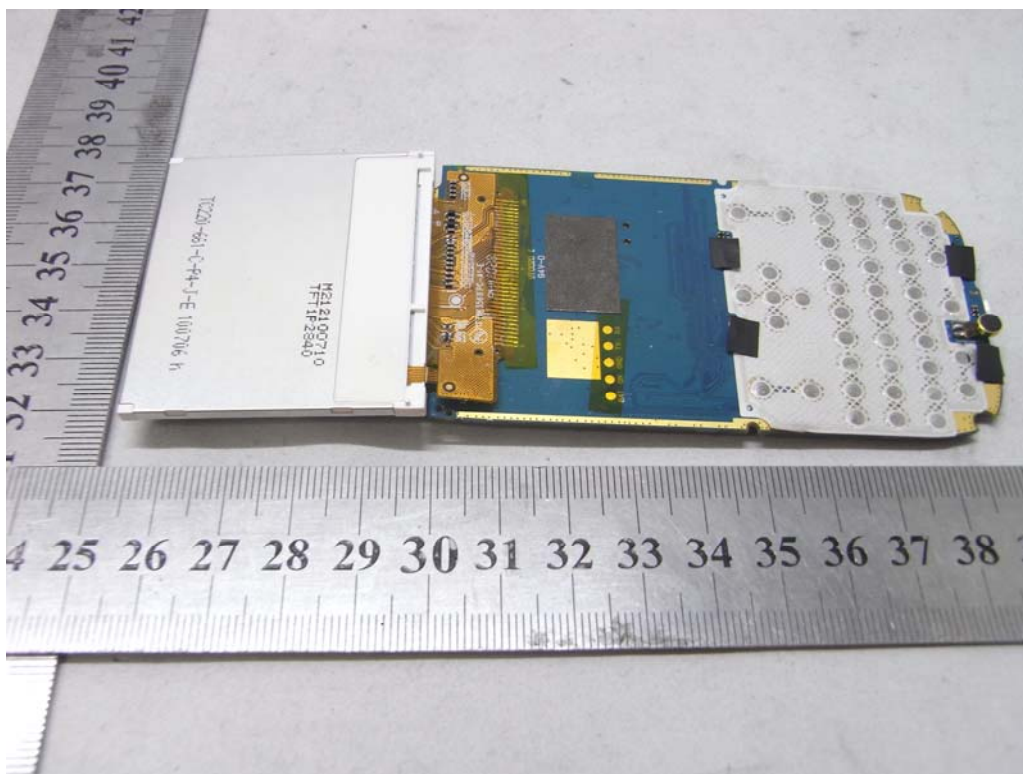


INTERNAL PHOTO OF SAMPLE – 1

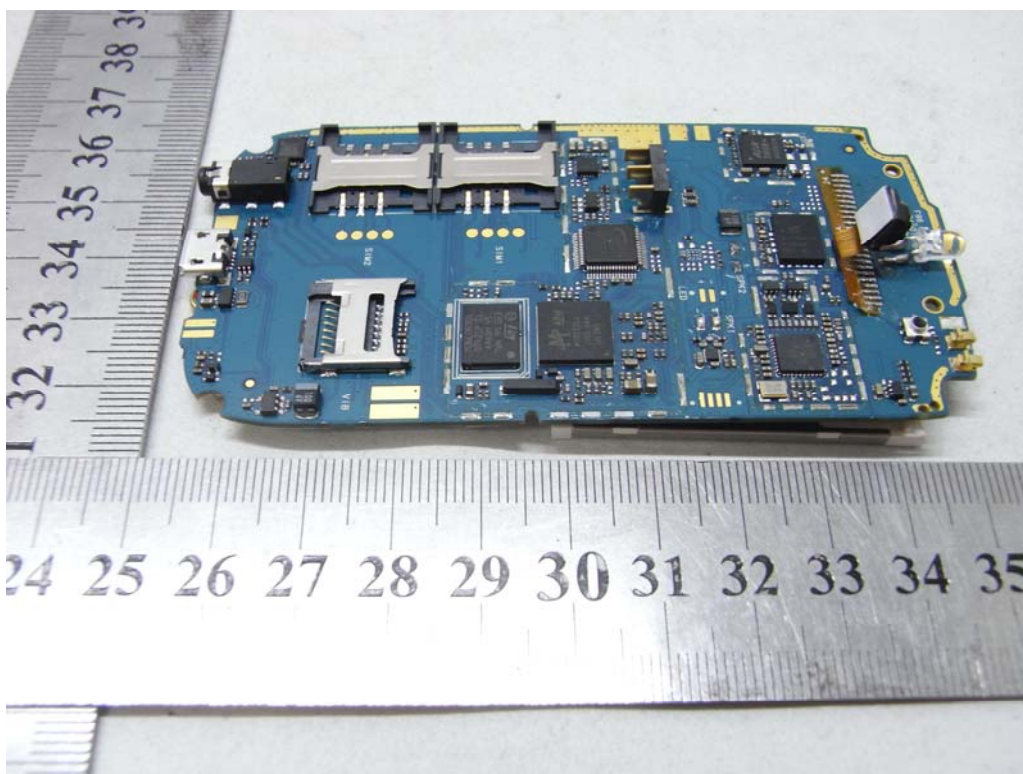




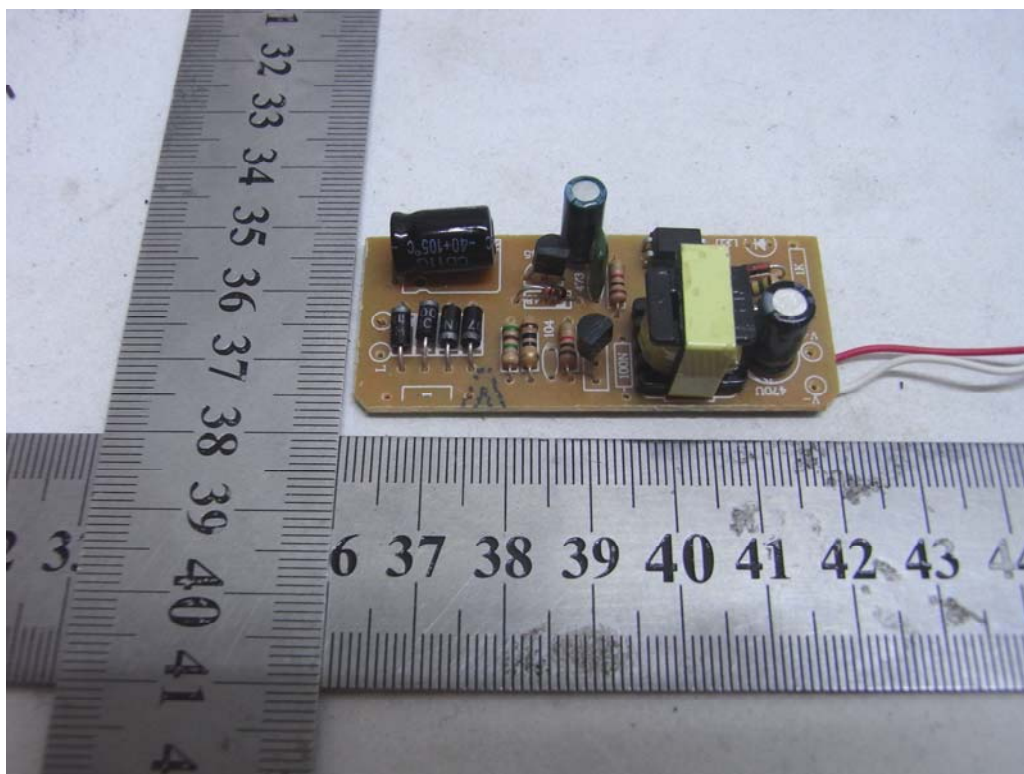
INTERNAL PHOTO OF SAMPLE -2



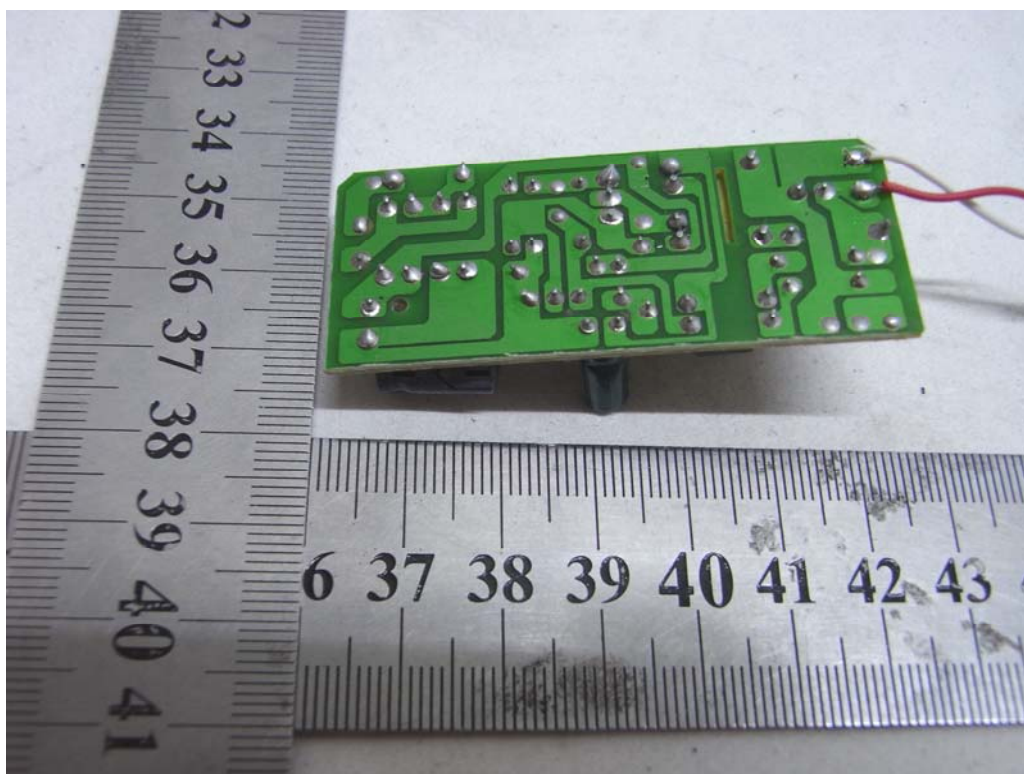
INTERNAL PHOTO OF SAMPLE -3



INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



FRONT VIEW OF THE SERIES OF SAMPLE



BACK VIEW OF THE SERIES OF SAMPLE



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