



FCC 47 CFR PART 15 SUBPART B

TEST REPORT

For

Applicant: SHENZHEN PXHT ELECTRONIC TECHNOLOGY CO., LTD

Address: Rm 8B, C Tower Electronic Technology Building ShenNan
Road(M), FuTian District, ShenZhen.

Product Name: WIFI phone

Model Name: X10, X10G

Brand Name: ISTAR

FCC ID: XPKX10

Report No.: STS100410F1

Date of Issue: May. 14, 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

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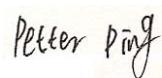
1. VERIFICATION OF CONFORMITY

Equipment Under Test: WIFI phone
Brand Name: ISTAR
Model Number: X10G
Series Model Name: X10
Series Model Difference description: The series models are different in appearance, color and software functions.
FCC ID: XPKX10
Applicant: SHENZHEN PXHT ELECTRONIC TECHNOLOGY CO., LTD
Rm 8B, C Tower Electronic Technology Building ShenNan Road(M),
FuTian District, ShenZhen.
Manufacturer: SHENZHEN PXHT ELECTRONIC TECHNOLOGY CO., LTD
Rm 8B, C Tower Electronic Technology Building ShenNan Road(M),
FuTian District, ShenZhen.
Technical Standards: FCC Part 15 B
File Number: STS100410F1
Date of test: April. 28 ~ May. 14, 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):



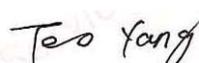
Petter Ping May. 14, 2010

Review by (+ signature):



July Wen May. 14, 2010

Approved by (+ signature):



Terry Yang May. 14, 2010

2. GENERAL INFORMATION

2.1 PRODUCT INFORMATION

EUT1- Mobile Phone	
Description:	WIFI phone
Model Name:	X10G
Serial No.:	X10
Model Difference description:	The series models are different in appearance, color and software functions.
IMEI No.:	355981035254616/ 355098026264619
Frequency:	GSM 850MHz/1900MHz
Hardware Version:	E710_V3.1_
Software Version:	E710_PXHT1ADX10.01.0
EUT2- Battery	
Description:	Lithium-ion Battery
Model Name:	N/A
Brand Name:	N/A
Manufacturer:	SHENZHEN GUANGXUN DIGITAL EQUIPMENT CO., LTD
Capacitance:	1500 mAh
Rated Voltage:	3.7V
Charge Limit:	4.2V
EUT3 – Power Supply	
Description:	Traveller Charger
Model Name:	N/A
Brand Name:	N/A
Manufacturer:	SHENZHEN JINLIYUAN COMMUNICATIONS CO., LTD.
Rated Input:	AC 100-240V,50/60Hz
Rated Output:	DC 5.0V, 500mA
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: 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 **490827**.
The **CNAS** Registration Number is **CNAS L3573**.

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.

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 Impedance Network	Kikusui	LIN40MA-PCR-L	LM002352	2011/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2011/03/14
23	EMCPRO 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+ Charger**.

Mode 3: Call Mode with Earphone

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**.

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: 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 7: 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 8: 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 9: TV Mode

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

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

Mode 10: WIFI Mode

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

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

Mode 11: FM Mode

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

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

Mode 12: GPS Mode

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

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

6. LINE CONDUCTED EMISSION TEST

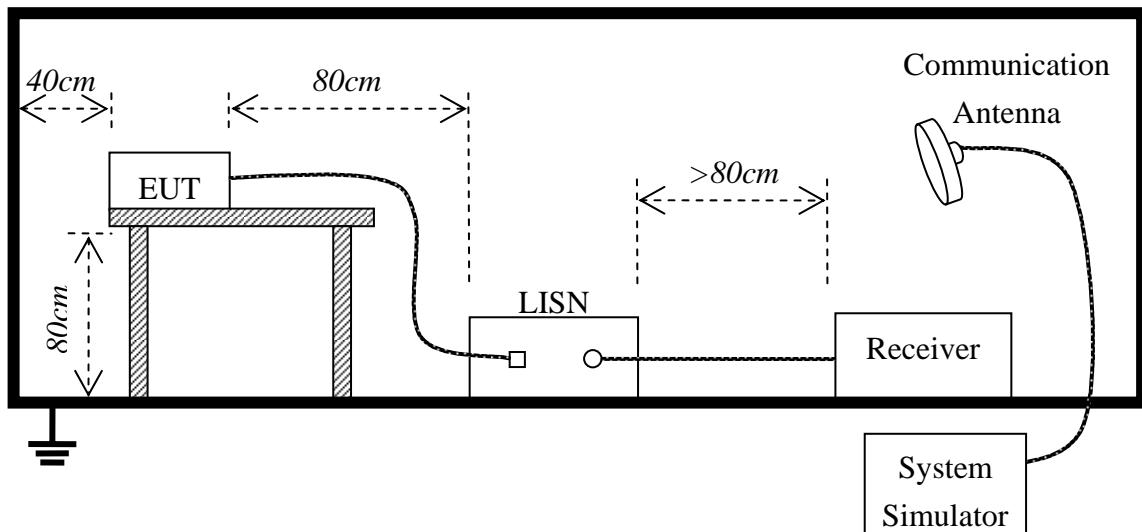
6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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	2010-04-29	STS100410F1	X10G_1_(L, N)	<input type="checkbox"/>
Call Mode	2010-04-29	STS100410F1	X10G_2_(L, N)	<input type="checkbox"/>
MP3/MP4 Mode	2010-04-29	STS100410F1	X10G_3_(L, N)	<input type="checkbox"/>
USB Mode	2010-04-29	STS100410F1	X10G_4_(L, N)	<input type="checkbox"/>
GPRS Mode	2010-04-29	STS100410F1	X10G_5_(L, N)	<input type="checkbox"/>
Camera Mode	2010-04-29	STS100410F1	X10G_6_(L, N)	<input type="checkbox"/>
Bluetooth Mode	2010-04-29	STS100410F1	X10G_7_(L, N)	<input type="checkbox"/>
TV Mode	2010-04-29	STS100410F1	X10G_8_(L, N)	<input type="checkbox"/>
WIFI Mode	2010-04-29	STS100410F1	X10G_9_(L, N)	<input checked="" type="checkbox"/>
FM Mode	2010-04-29	STS100410F1	X10G_10_(L, N)	<input type="checkbox"/>
GPS Mode	2010-04-29	STS100410F1	X10G_11_(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.

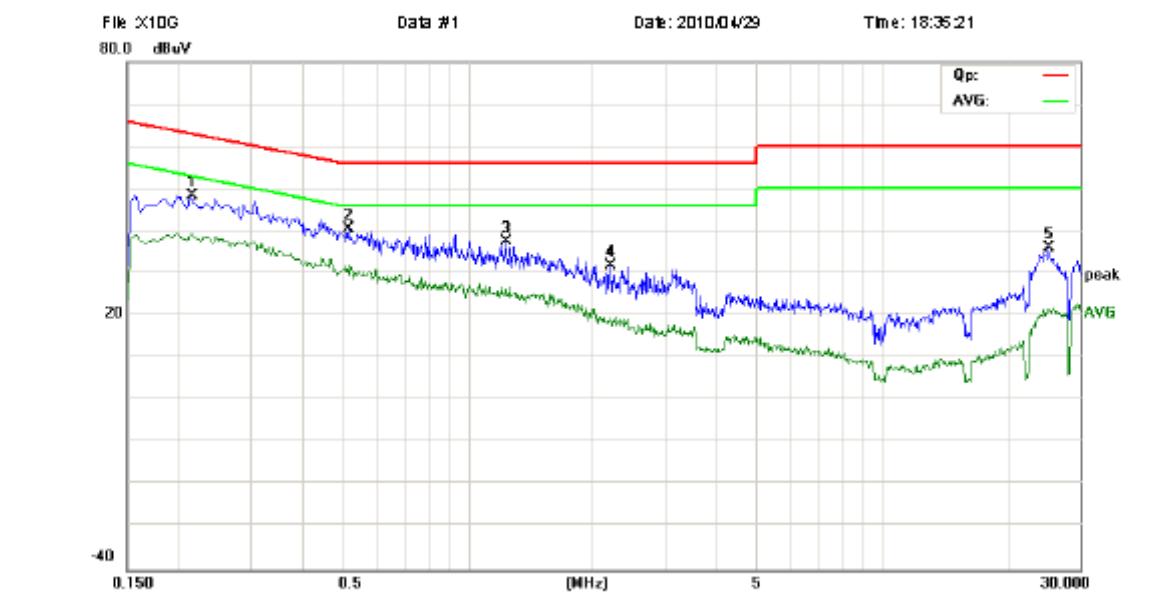
The test data of the worst case condition(s) was reported on the Summary Data page.

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: *L1* Temperature: 26

Limit: FCC Part15 B Class B QP Power: AC 120V/60Hz Humidity: 60 %

EUT: WIFI phone

M/N: X10G

Mode: Idle Mode

Note:

No. Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		Level	Factor	ment				
	MHz	dBuV	dB	dBuV	dB			
1 *	0.2140	36.33	11.91	48.24	63.05	-14.81	peak	
2	0.5140	30.59	10.00	40.59	56.00	-15.41	peak	
3	1.2300	27.89	9.77	37.66	56.00	-18.34	peak	
4	2.1900	22.74	9.19	31.93	56.00	-24.07	peak	
5	25.0820	27.07	9.00	36.07	60.00	-23.93	peak	

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

Engineer Signature:



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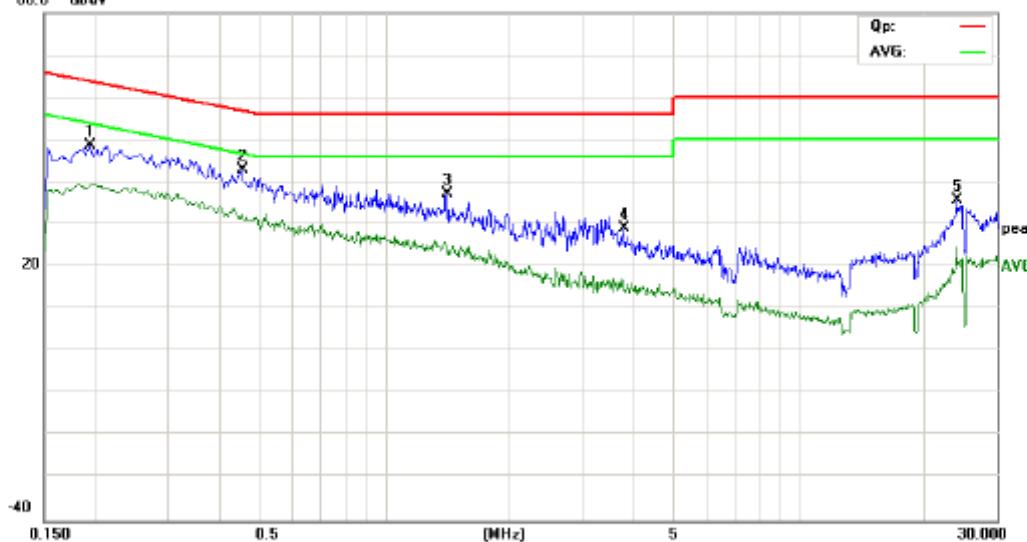
Conducted Emission Measurement

File X10G
80.0 dBuV

Data #2

Date: 2010/04/29

Time: 18:36:58



Site: site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: WIFI phone

M/N: X10G

Mode: Idle Mode

Note:

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level dBuV	Factor dB	ment dBuV				
1		0.1940	37.02	11.64	48.66	63.86	-15.20	peak	
2	*	0.4500	32.55	10.33	42.88	56.88	-14.00	peak	
3		1.4100	27.70	9.59	37.29	56.00	-18.71	peak	
4		3.7580	18.31	10.76	29.07	56.00	-26.93	peak	
5		24.0020	26.65	9.00	35.65	60.00	-24.35	peak	

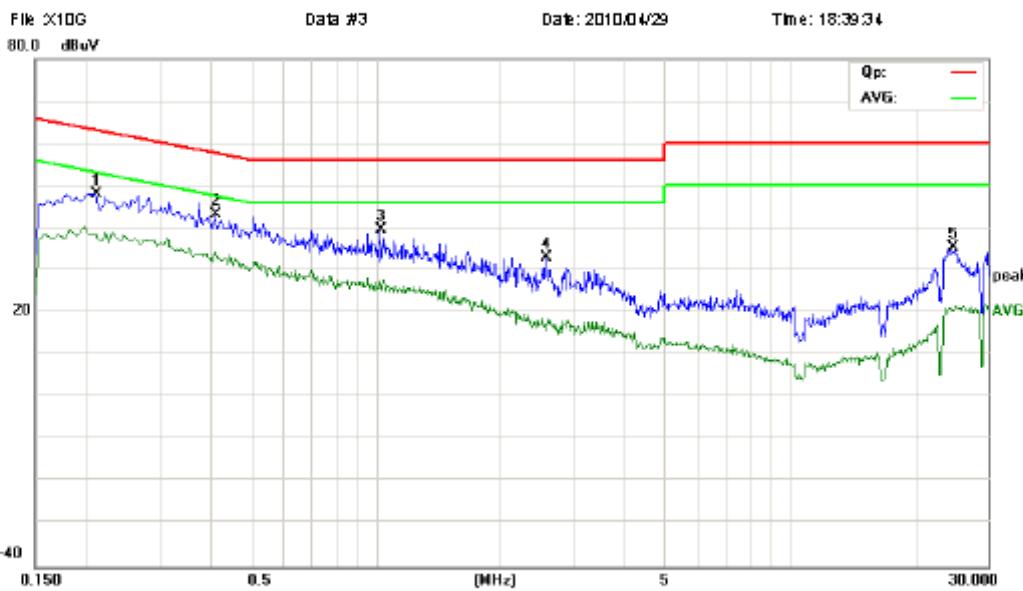
*:Maximum data x:Over limit !:over margin

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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: WIFI phone

M/N: X10G

Mode: Bluetooth Mode

Note:

No. Mk.	Freq. MHz	Reading	Correct	Measure-	Limit dBuV	dB	Detector	Comment
		Level dBuV	Factor	ment dB				
1	0.2100	36.17	11.93	48.10	63.21	-15.11	peak	
2 *	0.4100	32.51	10.60	43.11	57.65	-14.54	peak	
3	1.0260	29.54	9.97	39.51	56.00	-16.49	peak	
4	2.5620	23.52	9.56	33.08	56.00	-22.92	peak	
5	24.5940	26.39	9.00	35.39	60.00	-24.61	peak	

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

EngineerSignature:



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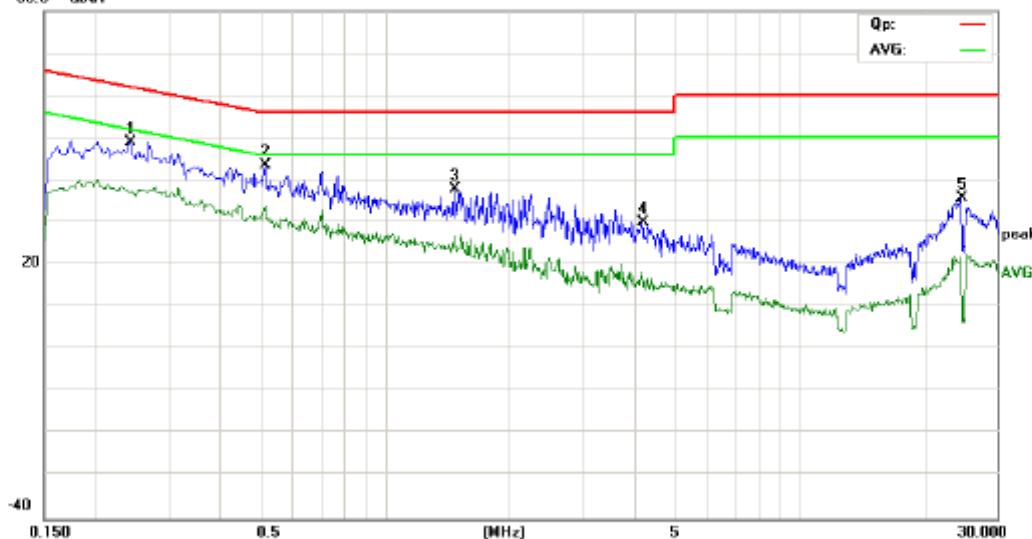
Conducted Emission Measurement

File X10G
80.0 dBuV

Data #4

Date: 2010/4/29

Time: 18:40:54



Site: site #1

Phase: *L1*

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: WIFI phone

MN: X10G

Mode: Bluetooth Mode

Note:

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV	dB			
1		0.2420	37.34	11.72	49.06	62.03	-12.97	peak	
2	*	0.5140	33.53	10.00	43.53	56.00	-12.47	peak	
3		1.4660	28.42	9.53	37.95	56.00	-18.05	peak	
4		4.1580	18.80	11.16	29.96	56.00	-26.04	peak	
5		24.5460	26.74	9.00	35.74	60.00	-24.26	peak	

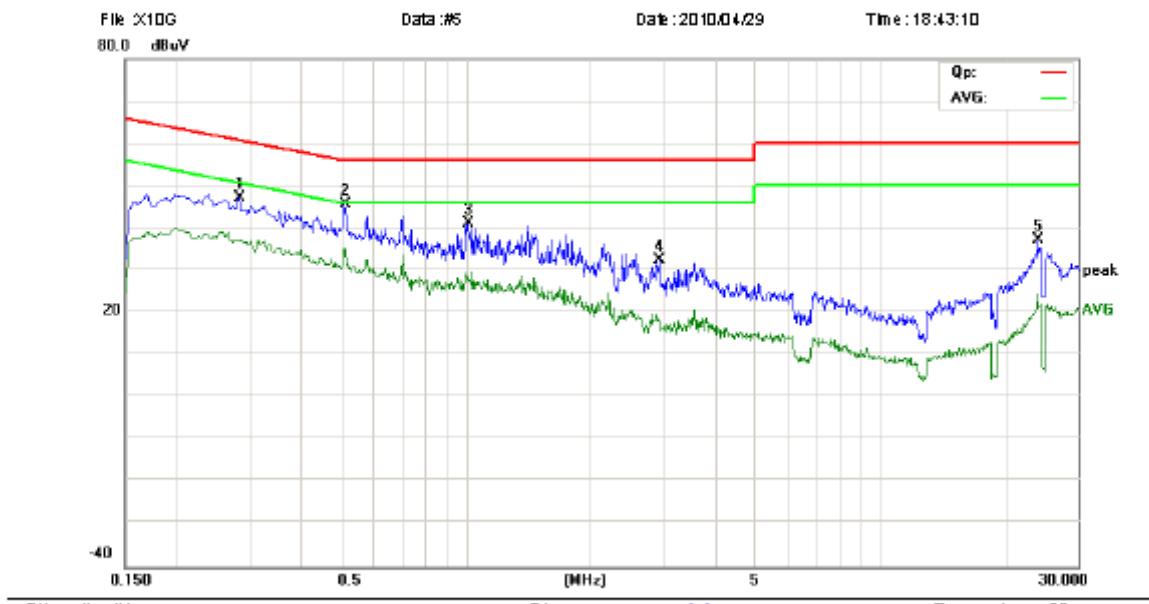
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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Conducted Emission Measurement



No. Mk.	Freq. MHz	Reading dBmV	Correct Factor	Measure- ment dBmV	Limit dBmV	Over dB	Detector	Comment
		Level dB	dB	dBmV	dB	dB		
1	0.2820	35.57	11.45	47.02	60.76	-13.74	peak	
2 *	0.5100	35.53	10.00	45.53	56.00	-10.47	peak	
3	1.0060	31.20	9.99	41.19	56.00	-14.81	peak	
4	2.9180	22.45	9.92	32.37	56.00	-23.63	peak	
5	24.0020	28.31	9.00	37.31	60.00	-22.69	peak	

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

Engineer Signature:



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

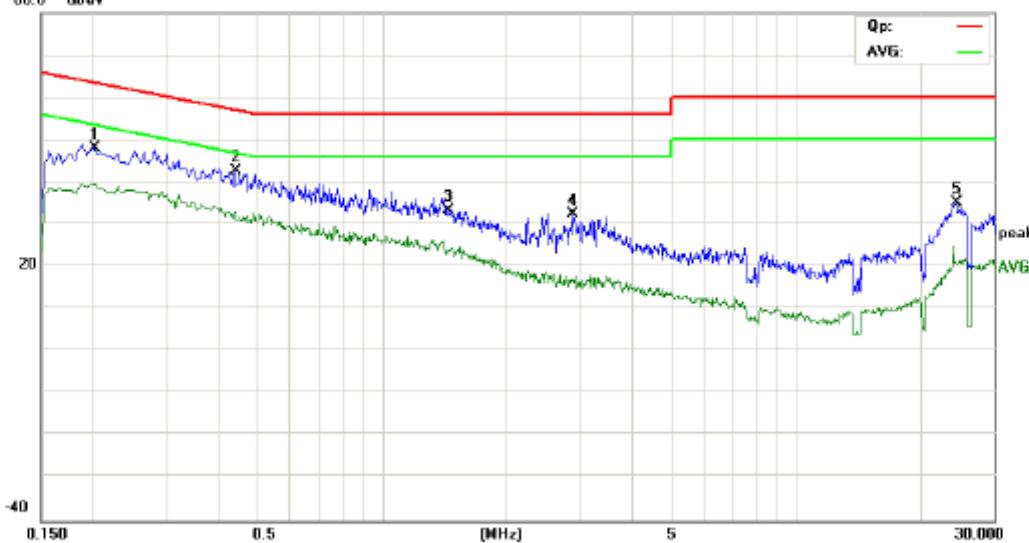
Conducted Emission Measurement

File X10G
80.0 dBuV

Data #6

Date: 2010/04/29

Time: 18:44:12



Site: site #1 Phase: **N** Temperature: 26

Limit: FCC Part15 B Class B QP Power: AC 120V/60Hz Humidity: 60 %

EUT: WIFI phone

Model: X10G

Mode: WIFI Mode

Note:

No.	Mk.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		MHz	dBuV	dB				
1	0.2020	36.00	11.99	47.99	63.53	-15.54	peak	
2	*	0.4420	32.41	10.39	42.80	57.02	-14.22	peak
3	1.4340	23.77	9.57	33.34	56.00	-22.66	peak	
4	2.8780	22.60	9.88	32.48	56.00	-23.52	peak	
5	24.3580	26.19	9.00	35.19	60.00	-24.81	peak	

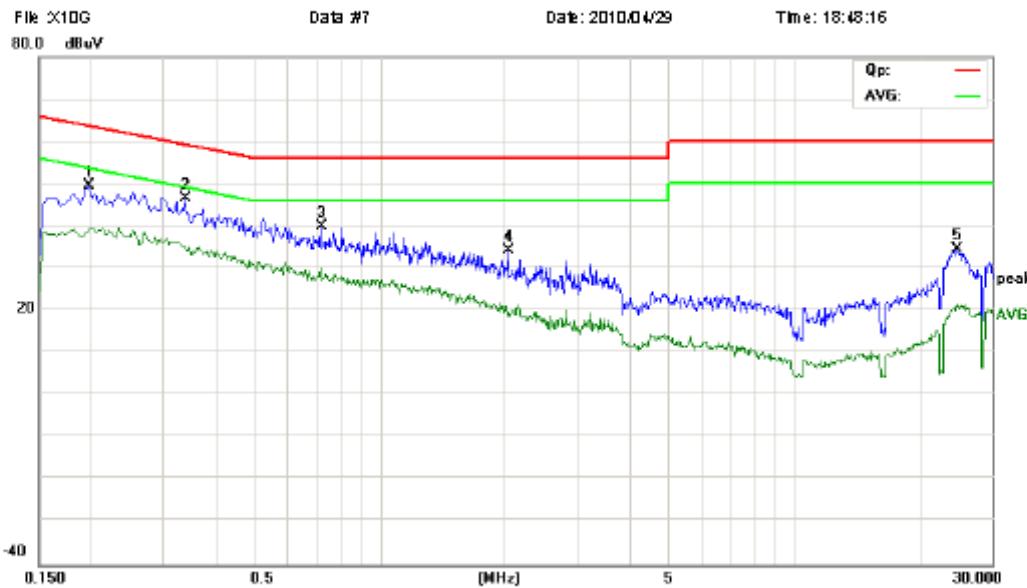
*:Maximum data x:Over limit !:over margin

EngineerSignature:



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: WIFI phone

M/N: X10G

Mode: TV Mode

Note:

No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
		dBmV	dB	dBmV	dB			
1	0.1980	37.76	11.88	49.64	63.69	-14.05	peak	
2 *	0.3380	35.39	11.08	46.47	59.25	-12.78	peak	
3	0.7180	29.98	10.00	39.98	56.00	-16.02	peak	
4	2.0380	25.17	9.04	34.21	56.00	-21.79	peak	
5	24.5820	25.47	9.00	34.47	60.00	-25.53	peak	

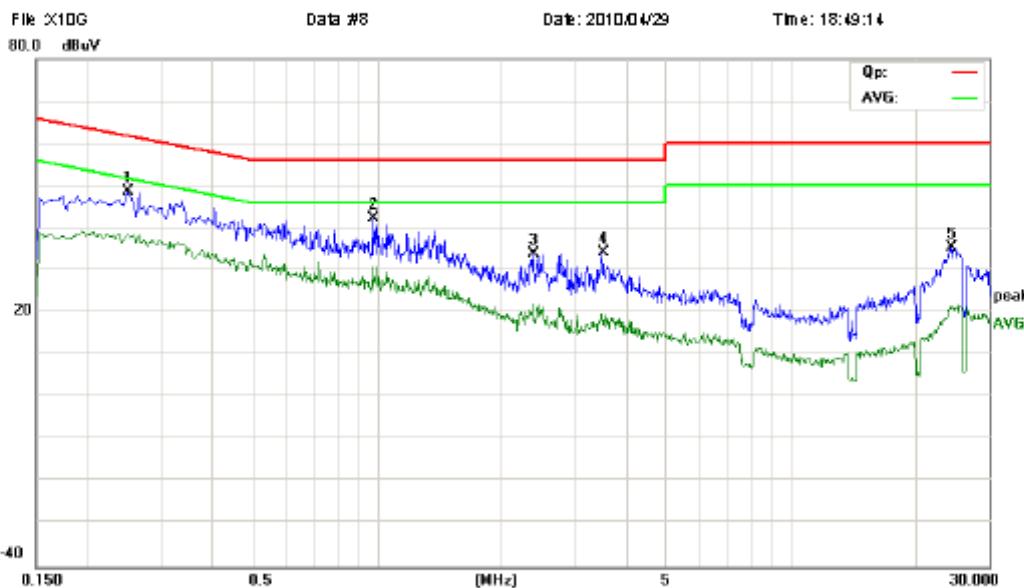
*:Maximum data x:Over limit !:over margin

EngineerSignature:



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: WIFI phone

M/N: X10G

Mode: TV Mode

Note:

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level dBuV	Factor dB	ment dBuV				
1	*	0.2500	36.95	11.67	48.62	61.76	-13.14	peak	
2		0.9780	32.38	10.00	42.38	56.00	-13.62	peak	
3		2.3780	24.71	9.38	34.09	56.00	-21.91	peak	
4		3.5060	23.88	10.51	34.39	56.00	-21.61	peak	
5		24.2700	26.31	9.00	35.31	60.00	-24.69	peak	

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

EngineerSignature:

7. RADIATED EMISSION TEST

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

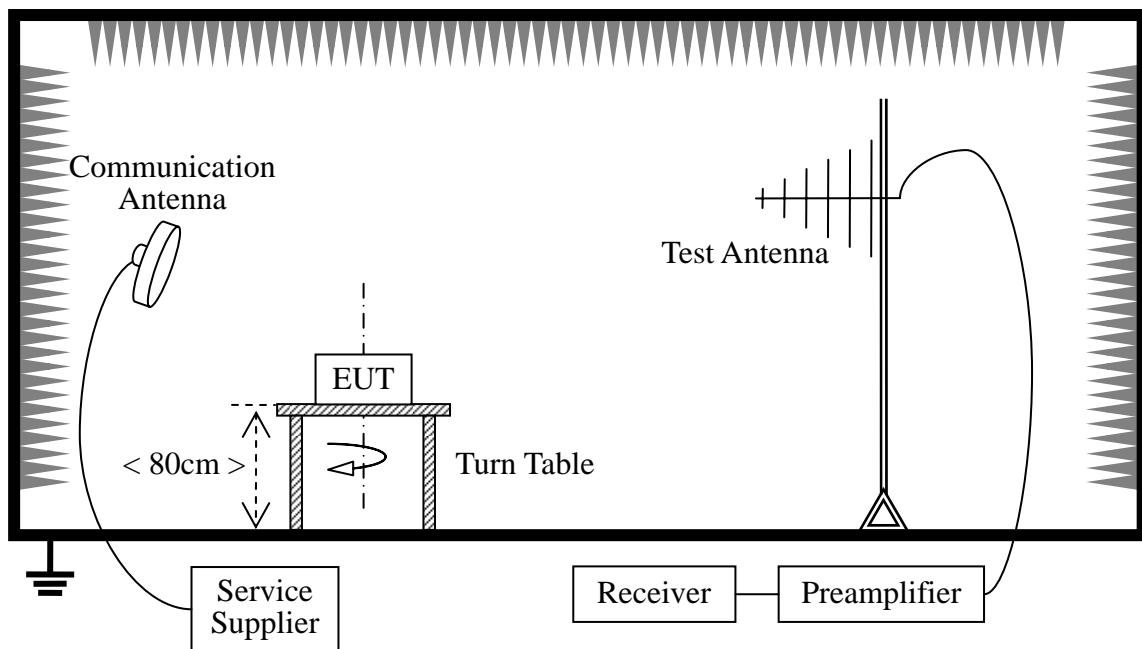
According to FCC section 15.109, except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μ 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.

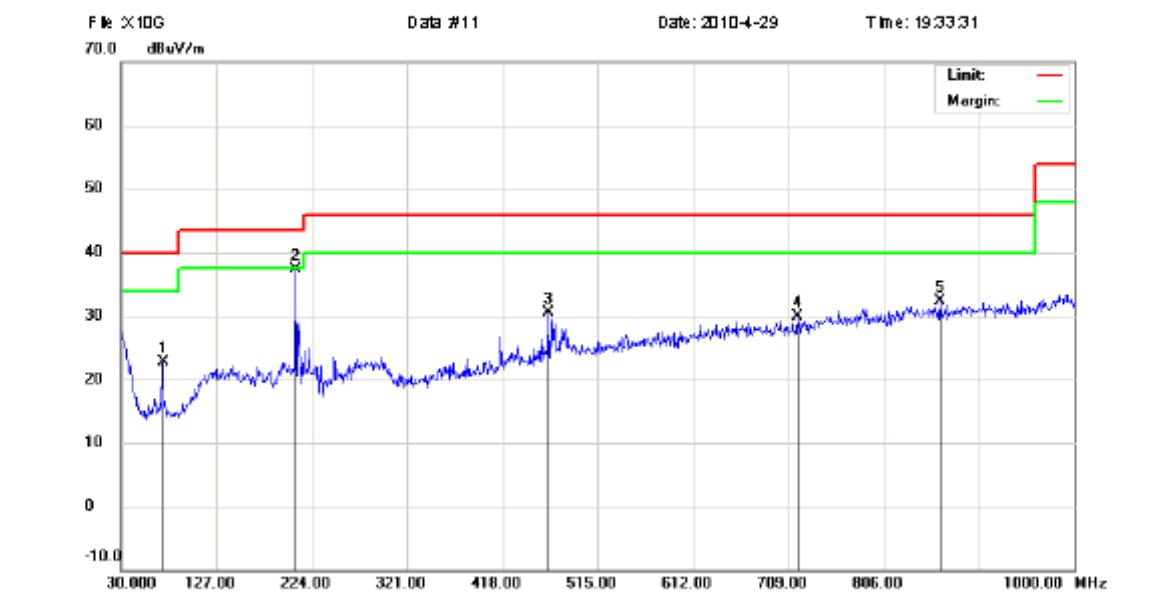
Preliminary Radiated Emission Test				
Frequency Range Investigated			30 MHz TO 1000 MHz	
Mode of operation	Date	Report No.	Data#	Worst Mode
Idle Mode	2010-04-29	STS100410F1	X10G_1_(H, V)	<input type="checkbox"/>
Call Mode	2010-04-29	STS100410F1	X10G_2_(H, V)	<input checked="" type="checkbox"/>
Call Mode with Earphone	2010-04-29	STS100410F1	X10G_3_(H, V)	<input type="checkbox"/>
MP3/MP4 Mode	2010-04-29	STS100410F1	X10G_4_(H, V)	<input type="checkbox"/>
USB Mode	2010-04-29	STS100410F1	X10G_5_(H, V)	<input type="checkbox"/>
GPRS Mode	2010-04-29	STS100410F1	X10G_6_(H, V)	<input type="checkbox"/>
Camera Mode	2010-04-29	STS100410F1	X10G_7_(H, V)	<input type="checkbox"/>
Bluetooth Mode	2010-04-29	STS100410F1	X10G_8_(H, V)	<input type="checkbox"/>
TV Mode	2010-04-29	STS100410F1	X10G_9_(H, V)	<input checked="" type="checkbox"/>
WIFI Mode	2010-04-29	STS100410F1	X10G_10_(H, V)	<input type="checkbox"/>
FM Mode	2010-04-29	STS100410F1	X10G_11_(H, V)	<input type="checkbox"/>
GPS Mode	2010-04-29	STS100410F1	X10G_12_(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



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBmV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		71.7100	11.06	11.68	22.74	40.00	-17.26	peak		
2	*	207.5100	20.76	16.53	37.29	43.50	-6.21	peak		
3		464.5600	9.58	20.91	30.49	46.00	-15.51	peak		
4		718.7000	5.18	24.69	29.87	46.00	-16.13	peak		
5		863.2300	5.23	27.03	32.26	46.00	-13.74	peak		

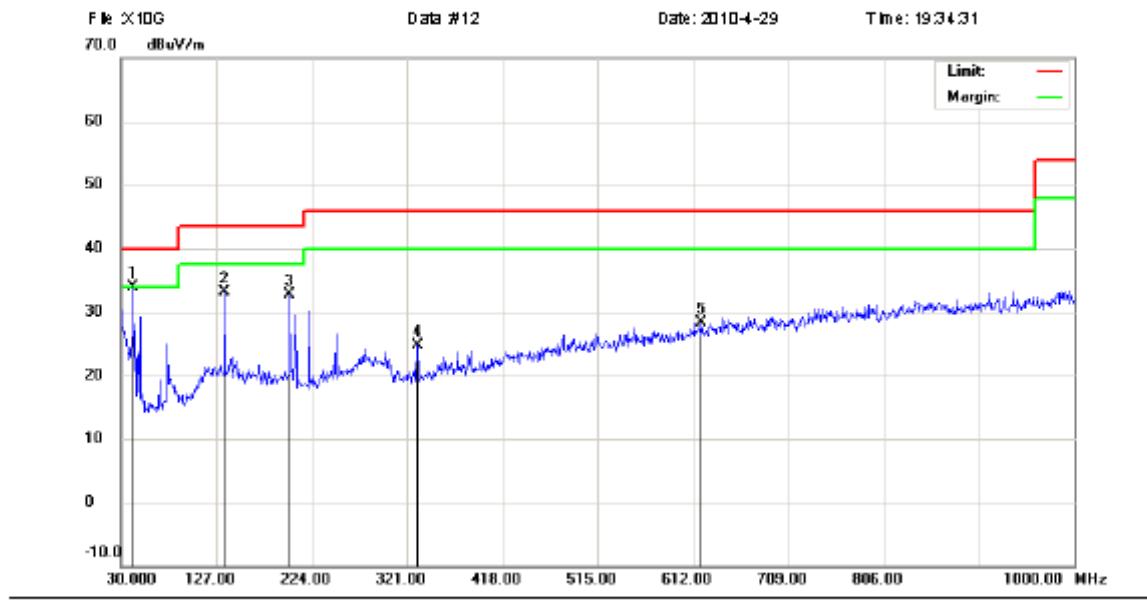
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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: AC 120V/60Hz

Humidity: 60 %

EUT: WIFI phone

Distance:

M/N: X10G

Mode: GPS Mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
			MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	*	42.6100	18.84	15.13	33.97	40.00	-6.03	peak			
2		135.7300	15.67	17.42	33.09	43.50	-10.41	peak			
3		201.6900	15.41	17.32	32.73	43.50	-10.77	peak			
4		331.6700	7.70	17.02	24.72	46.00	-21.28	peak			
5		620.7300	4.80	23.51	28.31	46.00	-17.69	peak			

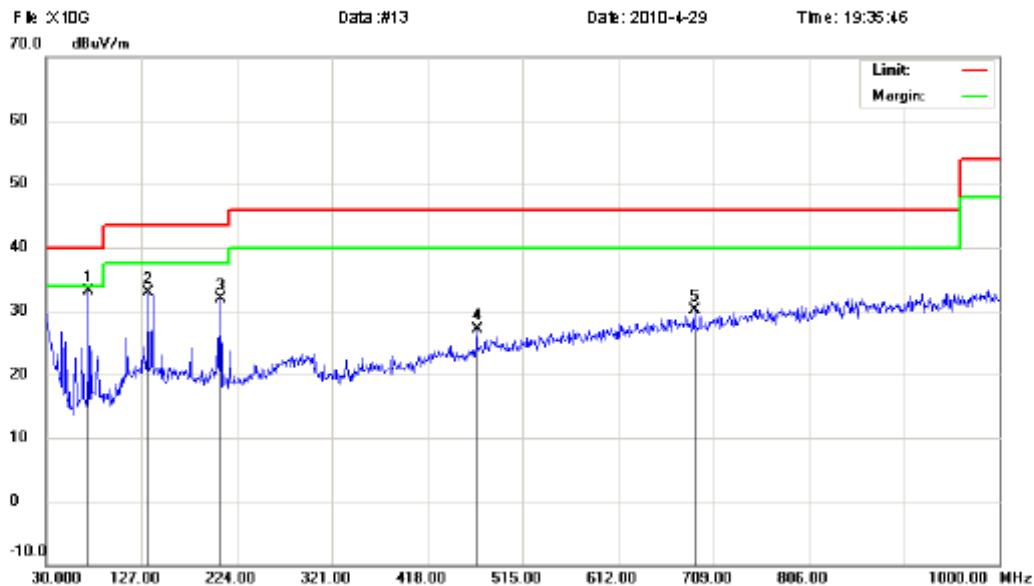
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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: AC 120V/60Hz

Humidity: 60 %

EUT: WIFI phone

Distance:

M/N: X10G

Mode: Bluetooth Mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	*	73.6500	21.51	11.66	33.17	40.00	-6.83	peak		
2		133.7900	15.48	17.51	32.99	43.50	-10.51	peak		
3		207.5100	15.33	16.53	31.86	43.50	-11.64	peak		
4		468.4400	6.02	21.12	27.14	46.00	-18.86	peak		
5		689.6000	5.71	24.40	30.11	46.00	-15.89	peak		

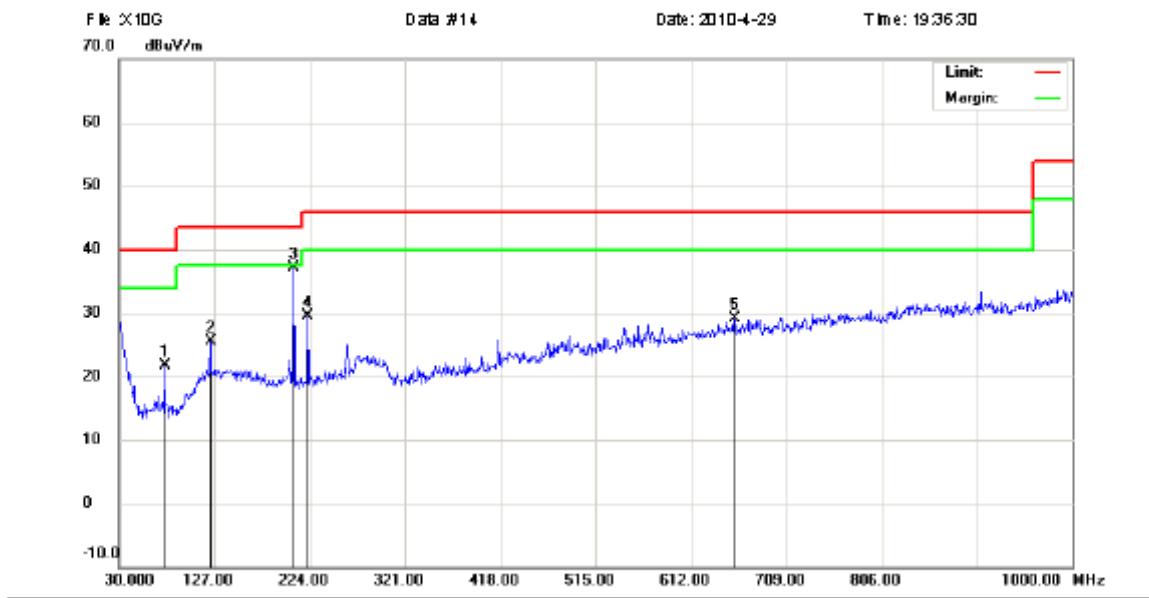
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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: **Horizontal**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: WiFi phone

Distance:

M/N: X10G

Mode: Bluetooth Mode

Note:

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree
			Level dBuV	Factor dB	ment dBuV/m				
1		76.5600	10.12	11.57	21.69	40.00	-18.31	peak	
2		123.1200	7.94	17.62	25.56	43.50	-17.94	peak	
3	*	207.5100	20.49	16.53	37.02	43.50	-6.48	peak	
4		222.0600	13.08	16.34	29.42	46.00	-16.58	peak	
5		656.6200	4.91	24.20	29.11	46.00	-16.89	peak	

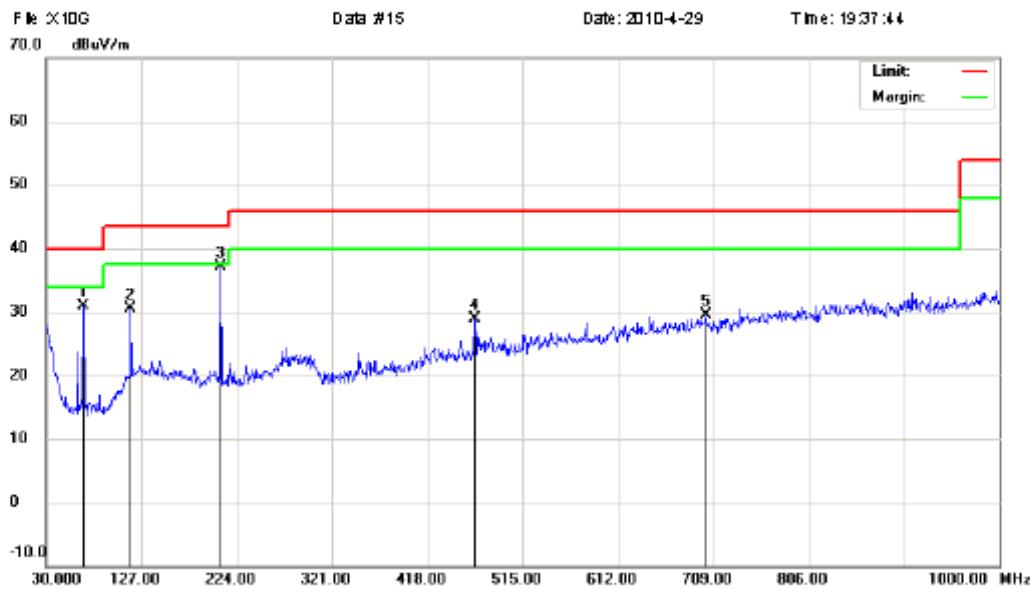
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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: **Horizontal**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: WiFi phone

Distance:

MN: X10G

Mode: WiFi Mode

Note:

No. Mk.	Freq. MHz	Reading	Correct	Measure-	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree
		Level dBuV	Factor dB	ment dBuV/m					
1	67.8300	19.40	11.53	30.93	40.00	-9.07	peak		
2	116.3300	13.31	17.13	30.44	43.50	-13.06	peak		
3 *	207.5100	20.66	16.53	37.19	43.50	-6.31	peak		
4	466.5000	7.92	21.03	28.95	46.00	-17.05	peak		
5	701.2400	4.88	24.69	29.57	46.00	-16.43	peak		

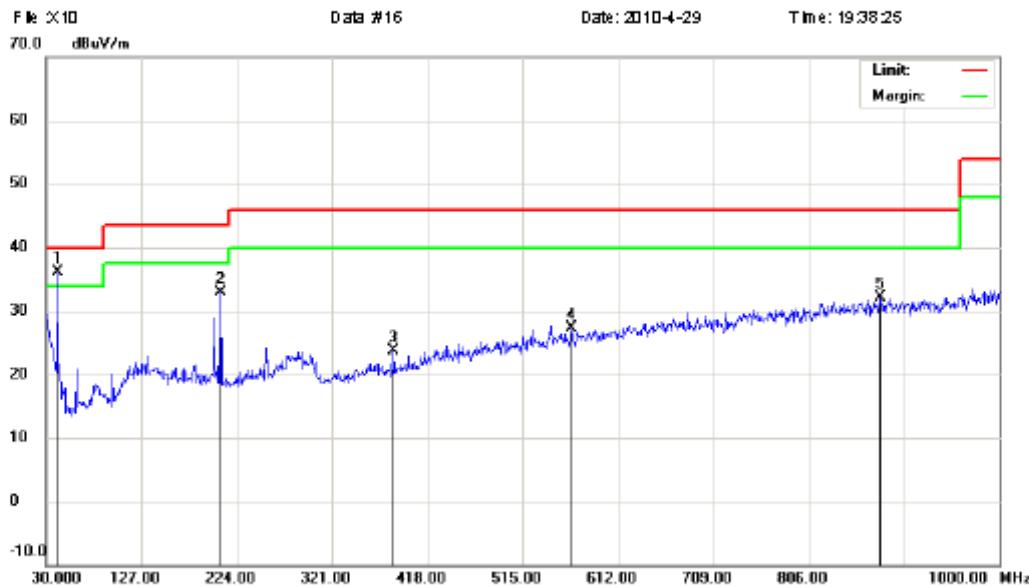
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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: AC 120V60Hz

Humidity: 60 %

EUT: WIFI phone

Distance:

M/N: X10G

Mode: WIFI Mode

Note:

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
			Level dBuV	Factor dB	ment dBuV/m						
1	*	41.6400	20.44	15.75	36.19	40.00	-3.81	peak			
2		207.5100	16.28	16.53	32.81	43.50	-10.69	peak			
3		384.0500	5.57	18.18	23.75	46.00	-22.25	peak			
4		564.4700	4.65	22.74	27.39	46.00	-18.61	peak			
5		878.7500	5.11	27.08	32.19	46.00	-13.81	peak			

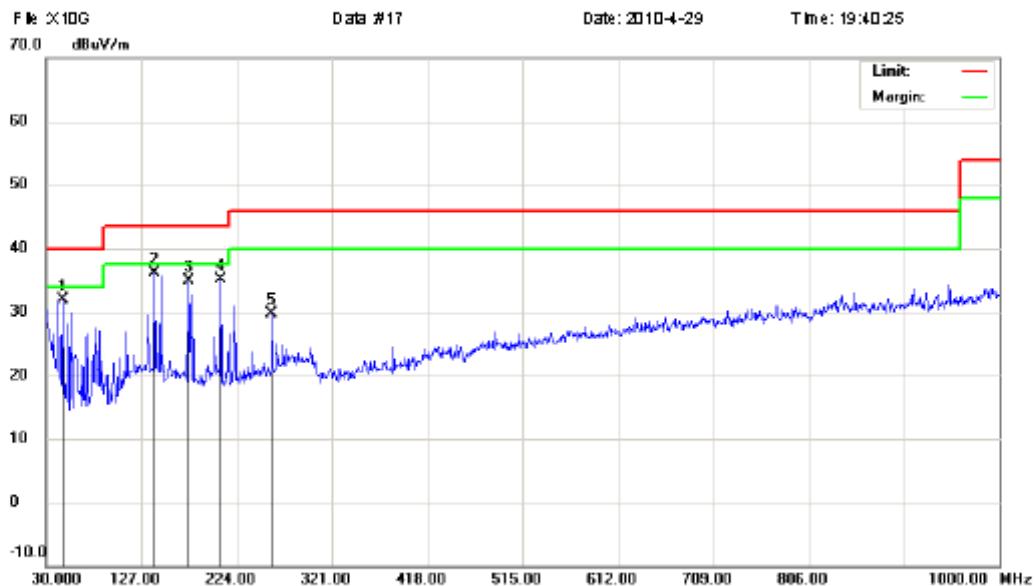
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site: site MOST 3M Polarization: **Vertical** Temperature: 26
Limit: FCC Part15 B 3M Radiation Power: AC 120V/60Hz Humidity: 60 %
EUT: WIFI phone Distance:
MN: X10G
Mode: FM Mode
Note:

No. Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Antenna Height cm	Table Degree	Comment
		Level dBuV	Factor dB	ment dBuV/m					
1	47.4600	19.51	12.47	31.98	40.00	-8.02	peak		
2 *	140.5800	18.96	17.17	36.13	43.50	-7.37	peak		
3	175.5000	17.90	16.93	34.83	43.50	-8.67	peak		
4	207.5100	18.53	16.53	35.06	43.50	-8.44	peak		
5	259.8900	12.19	17.60	29.79	46.00	-16.21	peak		

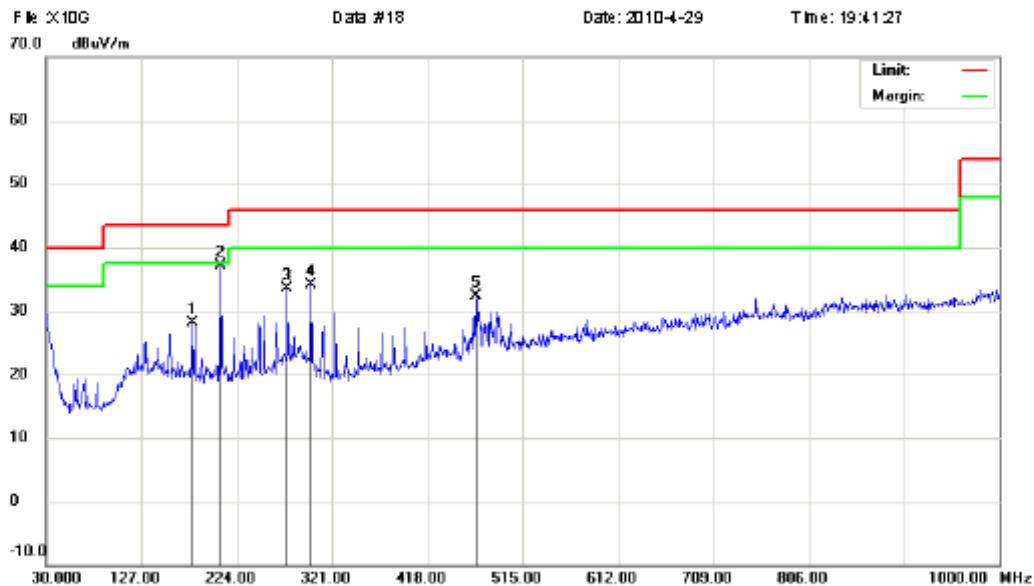
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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

Radiated Emission Measurement



No. Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Antenna Height cm	Table Degree
		Level dBuV	Factor dB	ment dBuV/m				
1	179.3800	11.47	16.73	28.20	43.50	-15.30	peak	
2 *	207.5100	20.59	16.53	37.12	43.50	-6.38	peak	
3	275.4100	14.28	19.22	33.50	46.00	-12.50	peak	
4	299.6600	14.89	19.30	34.19	46.00	-11.81	peak	
5	467.4700	11.14	21.07	32.21	46.00	-13.79	peak	

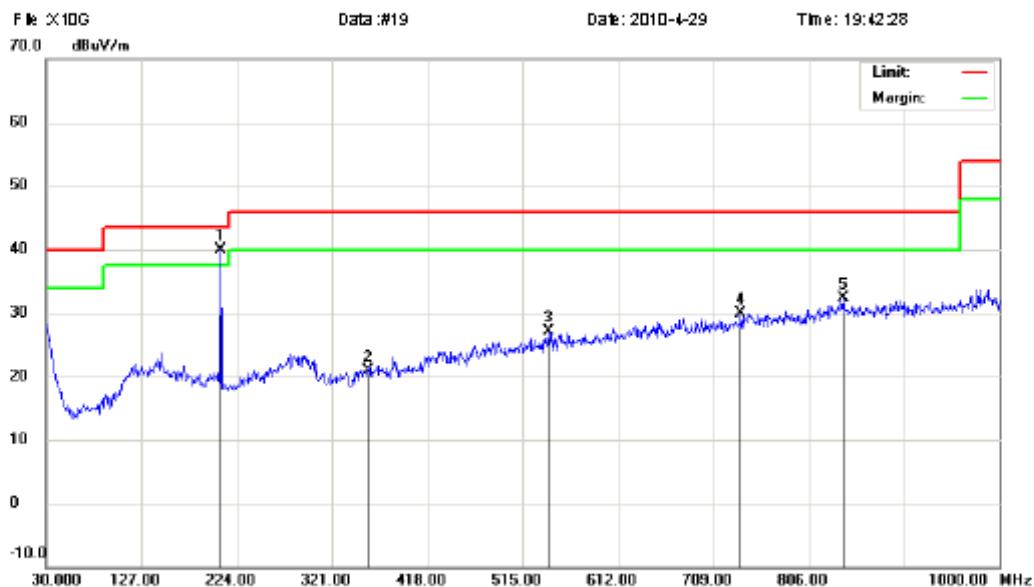
*:Maximum data x:Over limit !:over margin

Engineer Signature:



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: *Horizontal*

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V60Hz

Humidity: 60 %

EUT: WIFI phone

Distance:

M/N: X10G

Mode: Call mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBmV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	*	207.5100	23.33	16.53	39.86	43.50	-3.64	peak		
2		357.8600	2.72	18.26	20.98	46.00	-25.02	peak		
3		541.1900	4.95	22.22	27.17	46.00	-18.83	peak		
4		737.1300	4.61	25.30	29.91	46.00	-16.09	peak		
5		841.8900	5.20	27.12	32.32	46.00	-13.68	peak		

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

Engineer Signature:



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

Radiated Emission Measurement

File: X10G

Data #20

Date: 2010-4-29

Time: 19:43:10



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V60Hz

Humidity: 60 %

EUT: WIFI phone

Distance:

M/N: X10G

Mode: Call mode

Note:

No. Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Antenna Height cm	Table Degree
		Level dBuV	Factor dB	ment dBuV/m				
1	43.5800	18.40	14.51	32.91	40.00	-7.09	peak	
2 *	79.4700	24.00	11.43	35.43	40.00	-4.57	peak	
3 !	138.6400	20.26	17.27	37.53	43.50	-5.97	peak	
4	207.5100	16.61	16.53	33.14	43.50	-10.36	peak	
5	582.9000	4.78	22.93	27.71	46.00	-18.29	peak	

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

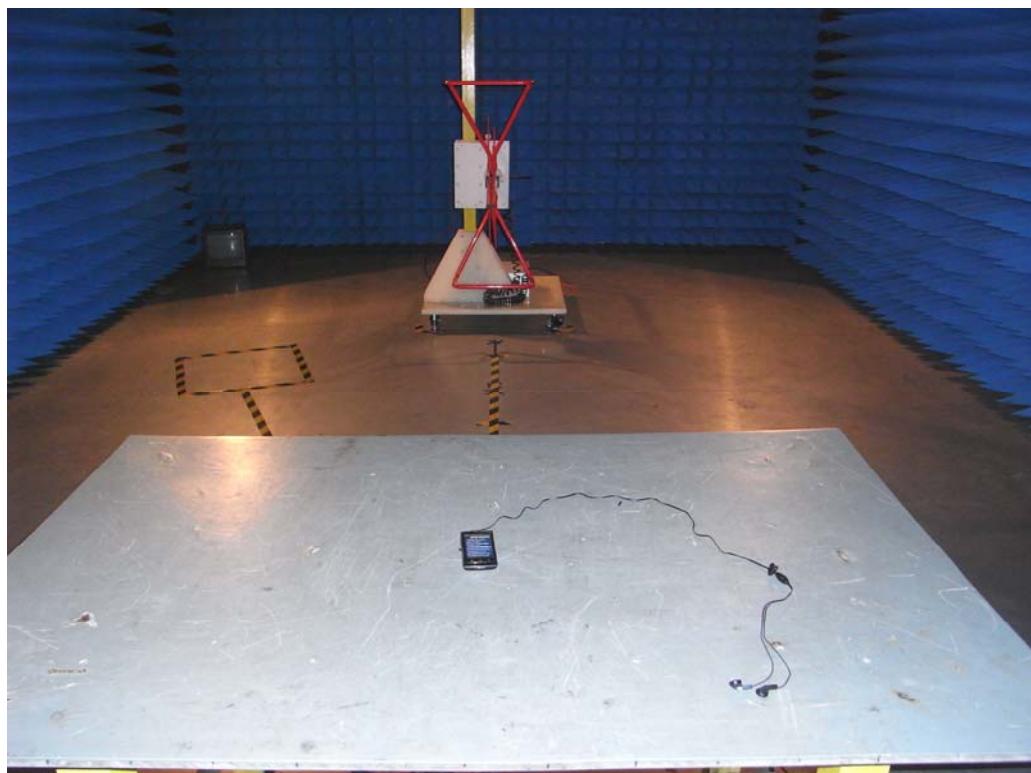
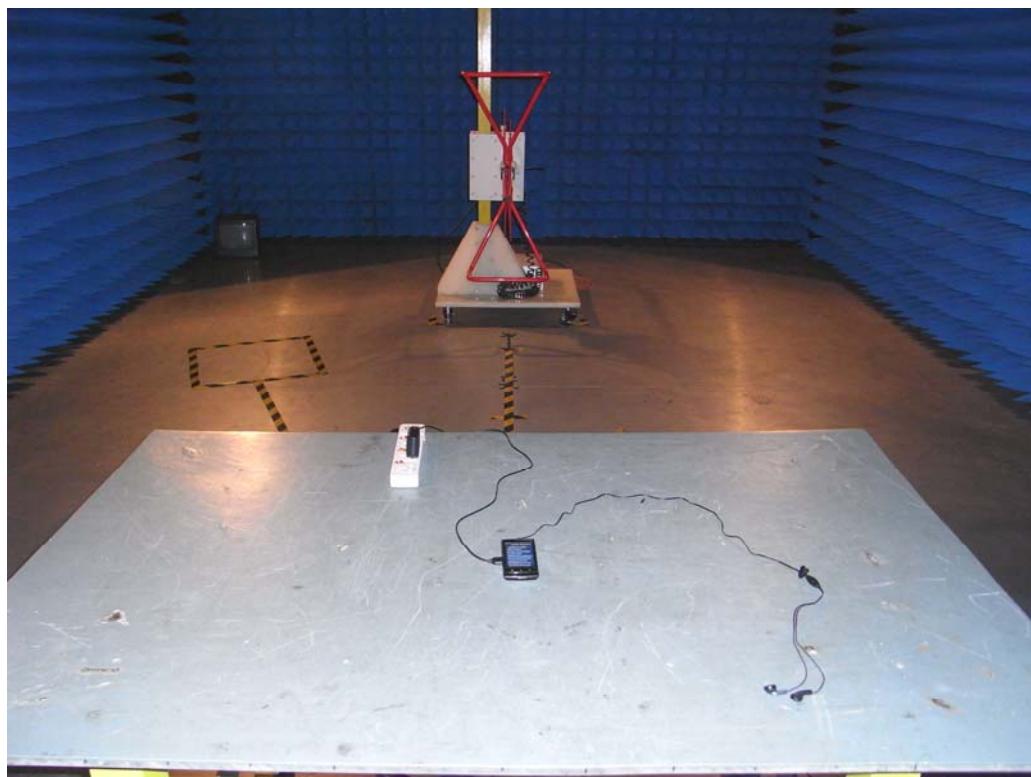
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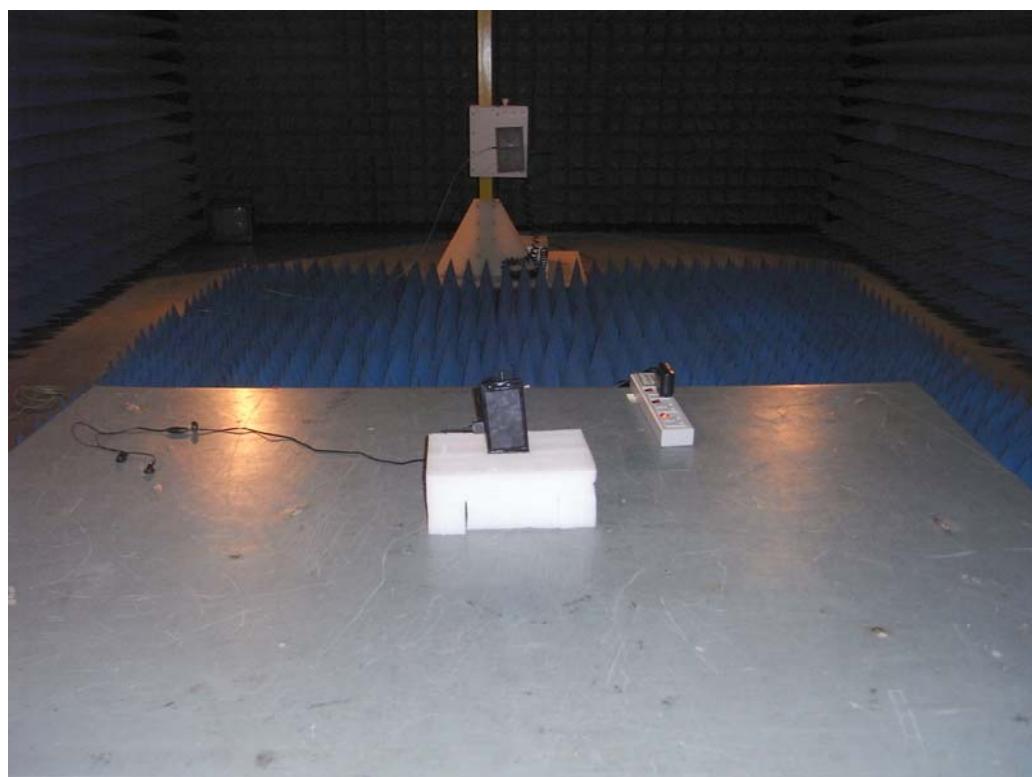
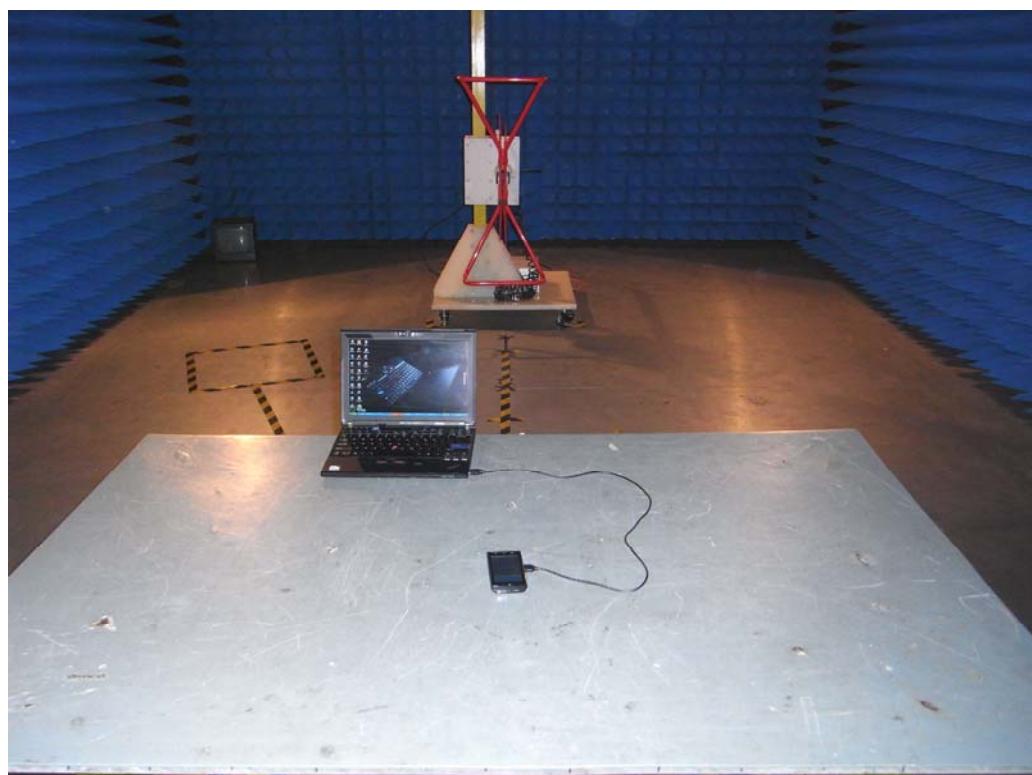
APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

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 HEADPHONE



PHOTO OF USB LINE



PHOTO OF BATTERY



PHOTO OF THE ENTIRE SAMPLE



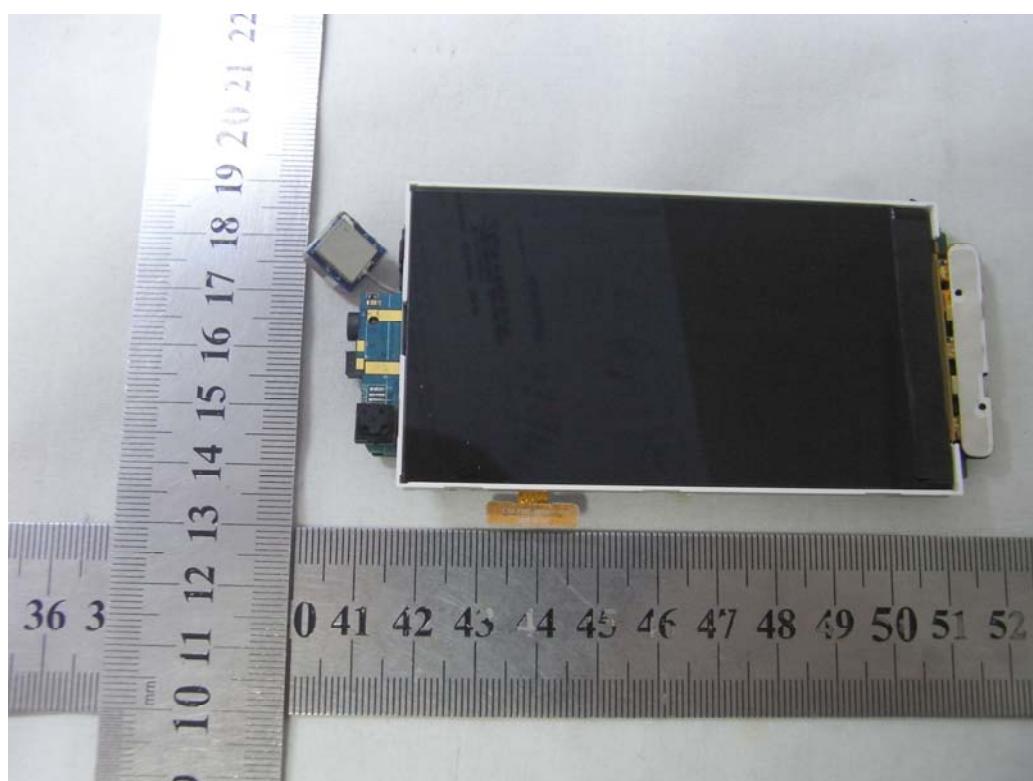
PHOTO OF THE SERIES-1



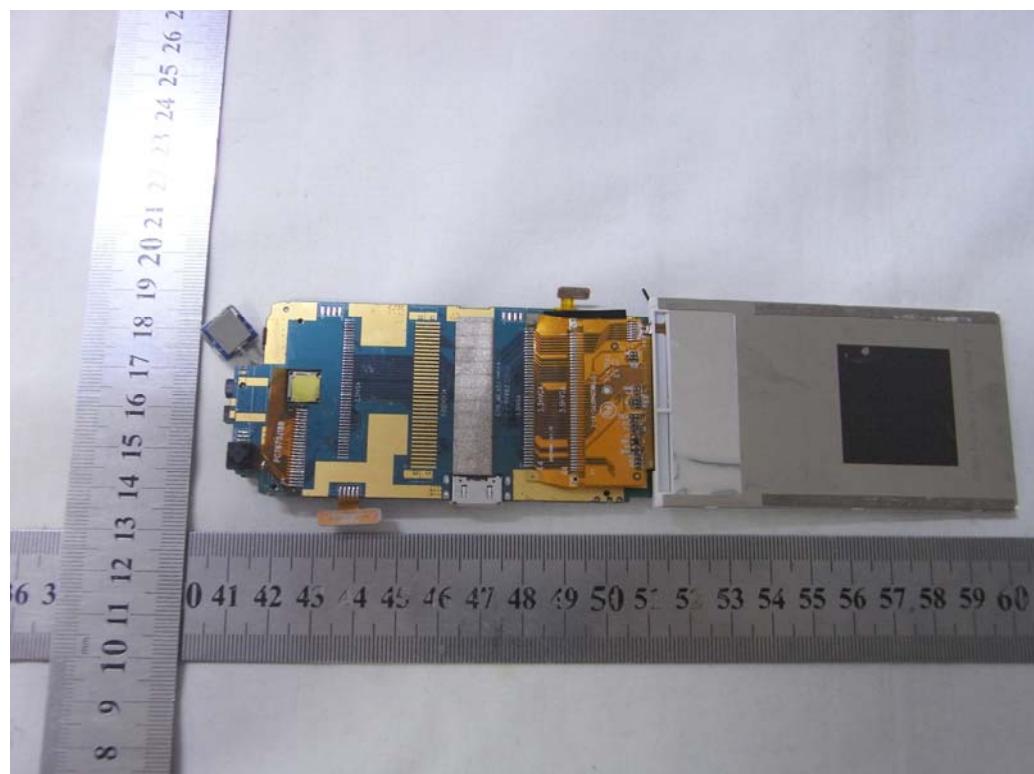
INTERNAL PHOTO OF SAMPLE – 1



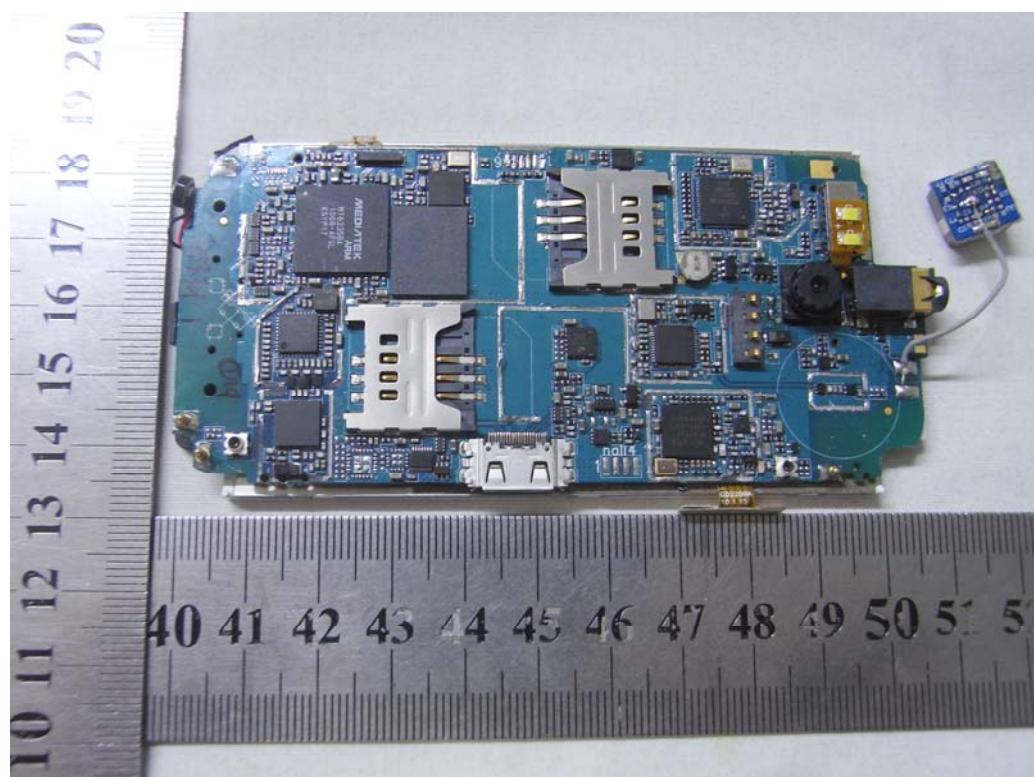
INTERNAL PHOTO OF SAMPLE – 2



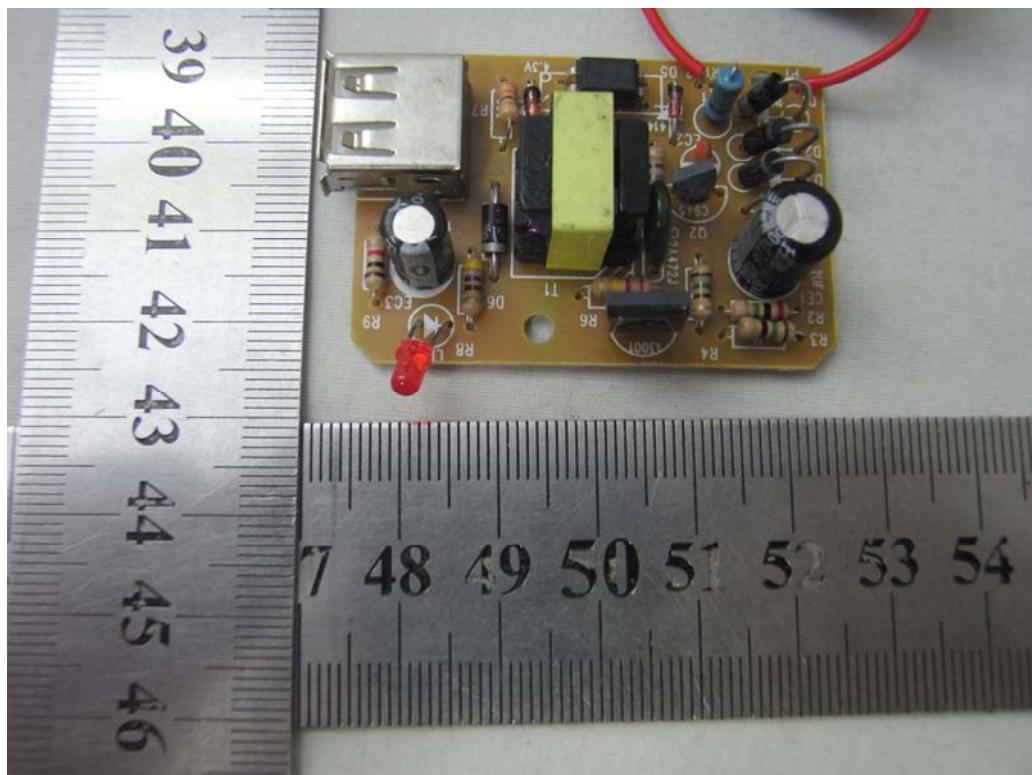
INTERNAL PHOTO OF SAMPLE -3



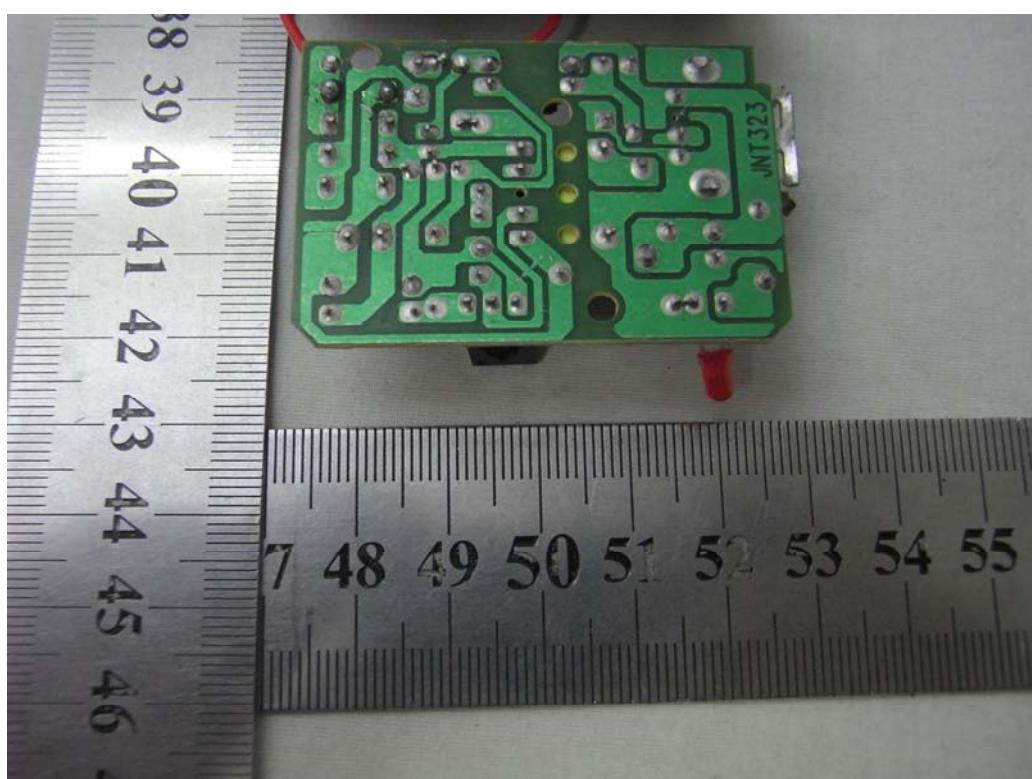
INTERNAL PHOTO OF SAMPLE -4



INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



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