

# EMC TEST REPORT



Report No.: 15050022-FCC-E

Applicant	b mobile HK Limited	
Product Name	Mobile Phone	
Model No.	AX600	
Serial No.	AX630	
Test Standard	FCC Part 15 Subpart B Class B:2014, ANSI C63.4: 2014	
Test Date	June 10 to June 24,2015	
Issue Date	June 24, 2015	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
<i>Lucifer He</i>	<i>David Huang</i>	
Lucifer He Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

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**Laboratories Introduction**

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Test Report	15050022-FCC-E
Page	3 of 29

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# CONTENTS

1. REPORT REVISION HISTORY .....	5
2. CUSTOMER INFORMATION .....	5
3. TEST SITE INFORMATION.....	5
4. EQUIPMENT UNDER TEST (EUT) INFORMATION.....	6
5. TEST SUMMARY .....	8
6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS .....	9
6.1 AC POWER LINE CONDUCTED EMISSIONS.....	9
6.2 RADIATED EMISSIONS.....	15
ANNEX A. TEST INSTRUMENT.....	19
ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS.....	20
ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....	25
ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST .....	28
ANNEX E. DECLARATION OF SIMILARITY.....	29

## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
15050022-FCC-E	NONE	Original	June 24, 2015

## 2. Customer information

Applicant Name	b mobile HK Limited
Applicant Add	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New Territories; Hong Kong
Manufacturer	b mobile HK Limited
Manufacturer Add	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New Territories; Hong Kong

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

## 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
Main Model:	AX600
Serial Model:	AX630
Antenna Gain:	<p>GSM850: -1.18dBi          PCS1900: 0.06dBi          UMTS-FDD Band V: -1.79dBi          UMTS-FDD Band II: -0.2dBi          Bluetooth/BLE:0.03dBi          WIFI: 0.03 dBi          GPS: -1.76 dBi</p>
Input Power:	<p>Battery:          Model: AX600          Spec: 3.8V, 1250 mAh 4.75Wh          Adapter:          Input: AC100 ~ 240V ,50/60Hz 0.15A          Output:DC5.0V, 0.7A</p>
Trade Name :	Bmobile
FCC ID:	ZSW-30-009
Date EUT received:	June 10, 2015

Equipment Category :

JBP

Type of Modulation:

GSM / GPRS: GMSK  
EGPRS: GMSK, 8PSK  
UMTS-FDD: QPSK, 16QAM  
802.11b/g/n: DSSS, OFDM  
Bluetooth: GFSK,  $\pi$  /4DQPSK, 8DPSK  
BLE: GFSK  
GPS:BPSK

RF Operating Frequency (ies):

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz  
PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz  
UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz  
UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;  
RX: 1932.4 ~ 1987.6 MHz  
WIFI:802.11b/g/n(20M): 2412-2472 MHz  
WIFI:802.11n(40M): 2422-2462 MHz  
Bluetooth& BLE: 2402-2480 MHz  
GPS RX:1575.42 MHz

Number of Channels:

GSM 850: 124CH  
PCS1900: 299CH  
UMTS-FDD Band V : 102CH  
UMTS-FDD Band II : 277CH  
WIFI :802.11b/g/n(20M): 13CH  
WIFI :802.11n(40M): 9CH  
Bluetooth: 79CH  
BLE: 40CH

Port:

Power Port, Earphone Port, USB Port

GPRS/EGPRS Multi-slot class

8/10/12

## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

### Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-



## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	20°C
Relative Humidity	59%
Atmospheric Pressure	1017mbar
Test date :	June 17, 2015
Tested By :	Lucifer He

#### Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [μ] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dBμV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dBμV)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	<p style="text-align: center;"> <b>Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</b> </p>
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Procedure	<ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> </ol>
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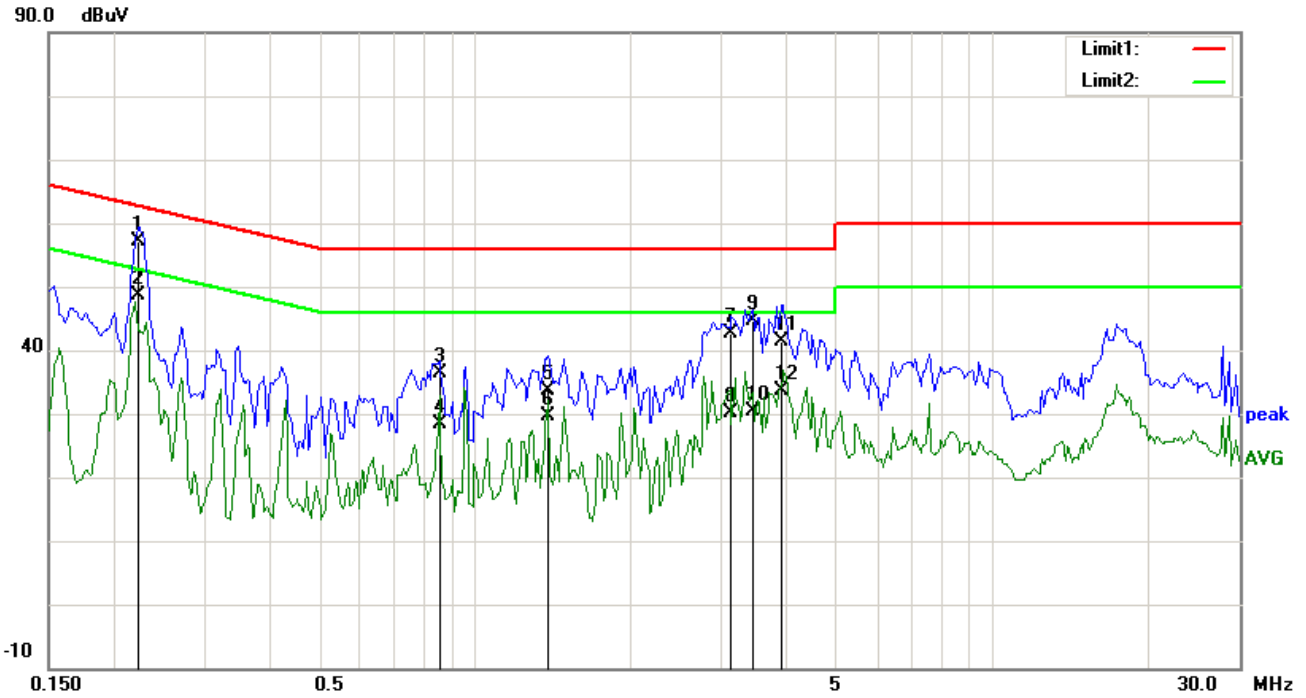
Test Report	15050022-FCC-E
Page	10 of 29

	<ol style="list-style-type: none"> <li>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.</li> <li>7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz.</li> <li>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</li> </ol>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data     Yes                       N/A

Test Plot     Yes (See below)             N/A

**Test Mode 1: USB Mode**

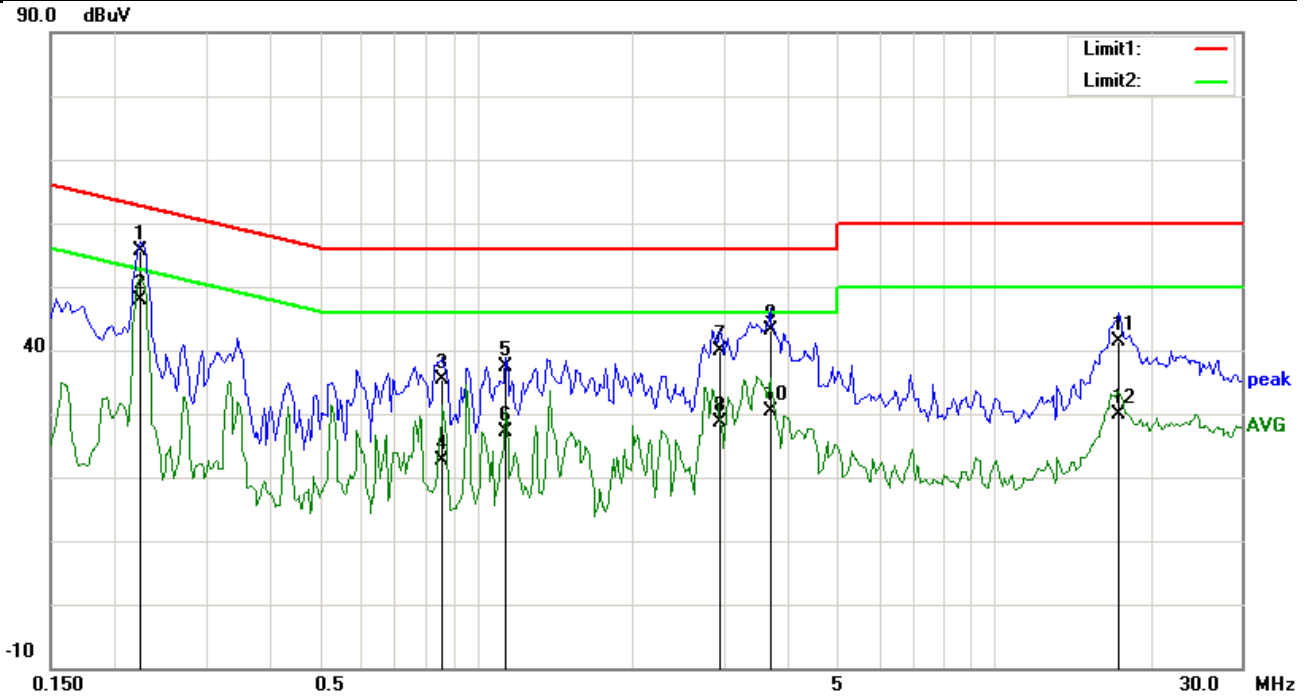


**Test Data**

**Phase Line Plot at 120Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Comment
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)	
1	L1	0.2242	44.25	QP	12.92	57.17	62.66	-5.49	
2	L1	0.2242	35.69	AVG	12.92	48.61	52.66	-4.05	
3	L1	0.8531	24.80	QP	11.55	36.35	56.00	-19.65	
4	L1	0.8531	16.76	AVG	11.55	28.31	46.00	-17.69	
5	L1	1.3883	22.19	QP	11.40	33.59	56.00	-22.41	
6	L1	1.3883	18.20	AVG	11.40	29.60	46.00	-16.40	
7	L1	3.1250	31.25	QP	11.40	42.65	56.00	-13.35	
8	L1	3.1250	18.72	AVG	11.40	30.12	46.00	-15.88	
9	L1	3.4375	33.28	QP	11.40	44.68	56.00	-11.32	
10	L1	3.4375	18.90	AVG	11.40	30.30	46.00	-15.70	
11	L1	3.9141	29.86	QP	11.40	41.26	56.00	-14.74	
12	L1	3.9141	22.24	AVG	11.40	33.64	46.00	-12.36	

<b>Test Mode 1:</b>	<b>USB Mode</b>
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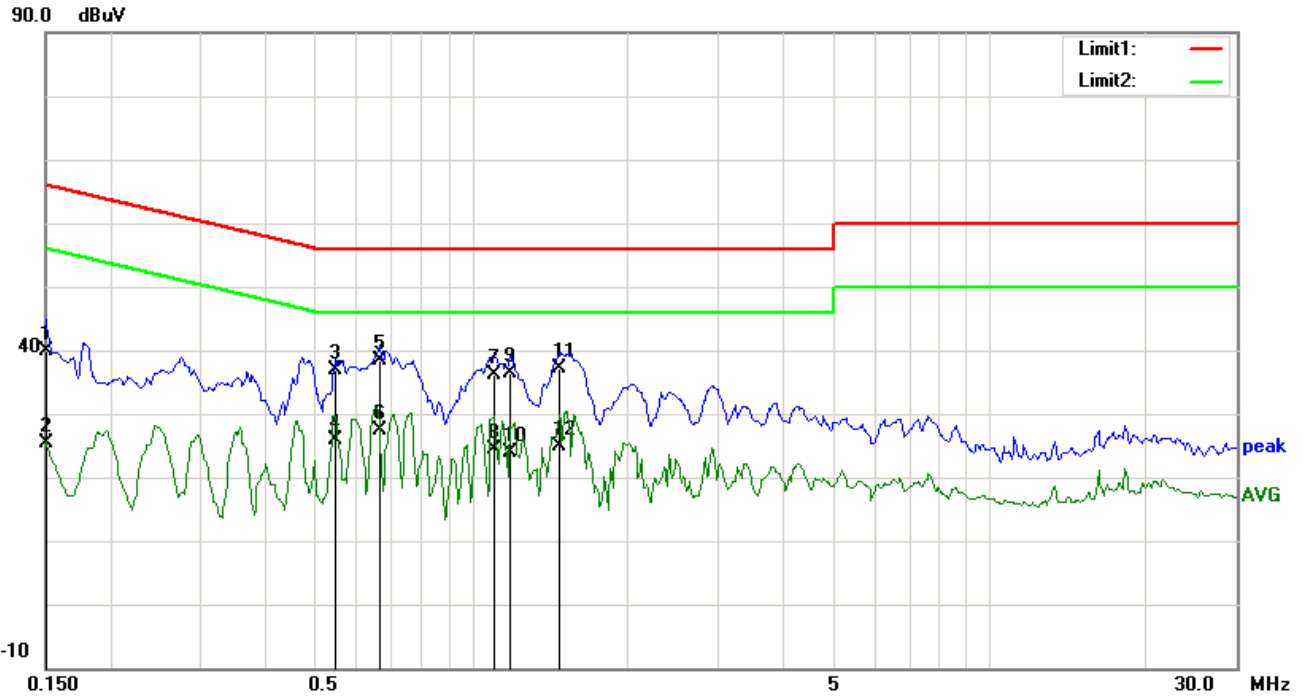


**Test Data**

**Phase Neutral Plot at 120Vac, 60Hz**

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB}	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
1	N	0.2242	42.64	QP	12.92	55.56	62.66	-7.10	
2	N	0.2242	34.98	AVG	12.92	47.90	52.66	-4.76	
3	N	0.8609	23.72	QP	11.54	35.26	56.00	-20.74	
4	N	0.8609	11.09	AVG	11.54	22.63	46.00	-23.37	
5	N	1.1383	26.07	QP	11.42	37.49	56.00	-18.51	
6	N	1.1383	15.61	AVG	11.42	27.03	46.00	-18.97	
7	N	2.9547	28.22	QP	11.64	39.86	56.00	-16.14	
8	N	2.9547	17.05	AVG	11.64	28.69	46.00	-17.31	
9	N	3.6836	31.41	QP	11.74	43.15	56.00	-12.85	
10	N	3.6836	18.76	AVG	11.74	30.50	46.00	-15.50	
11	N	17.4297	26.75	QP	14.61	41.36	60.00	-18.64	
12	N	17.4297	15.32	AVG	14.61	29.93	50.00	-20.07	

<b>Test Mode 1:</b>	<b>USB Mode</b>
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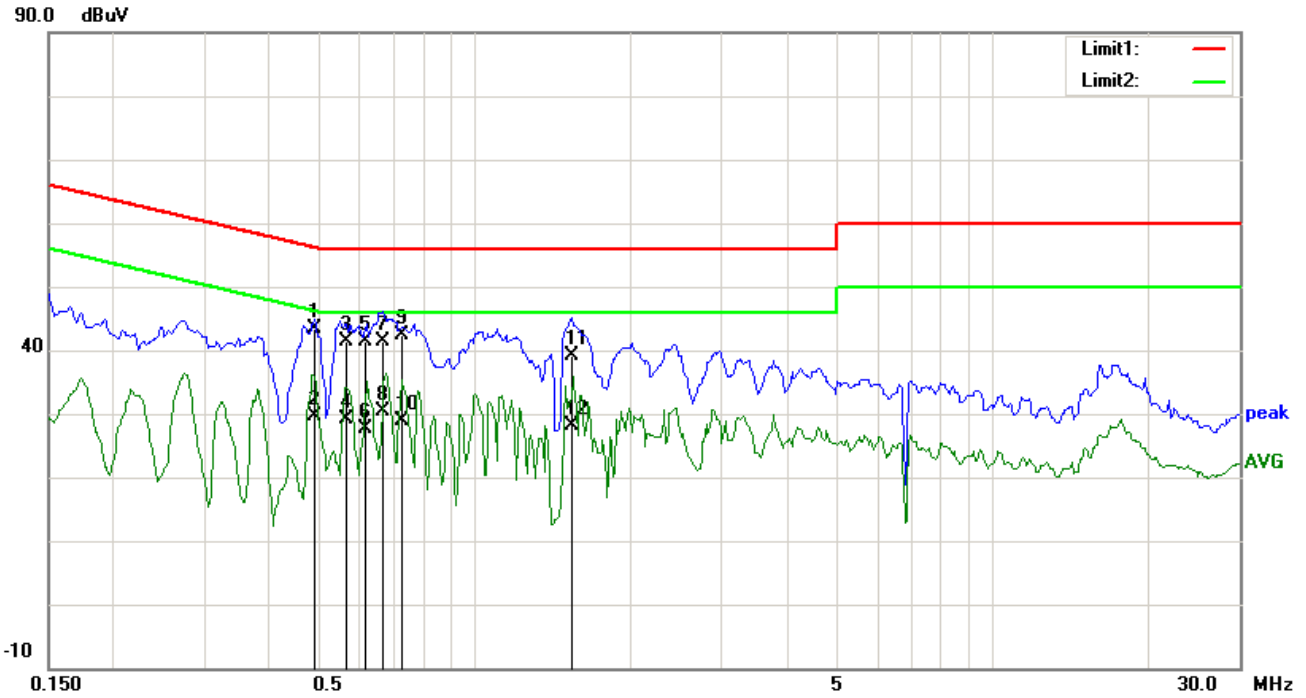


*Test Data*

**Phase Line Plot at 240Vac, 60Hz**

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB}	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
1	L1	0.1500	26.61	QP	13.20	39.81	66.00	-26.19	
2	L1	0.1500	12.17	AVG	13.20	25.37	56.00	-30.63	
3	L1	0.5445	25.00	QP	11.86	36.86	56.00	-19.14	
4	L1	0.5445	14.01	AVG	11.86	25.87	46.00	-20.13	
5	L1	0.6617	26.53	QP	11.74	38.27	56.00	-17.73	
6	L1	0.6617	15.62	AVG	11.74	27.36	46.00	-18.64	
7	L1	1.1031	24.74	QP	11.40	36.14	56.00	-19.86	
8	L1	1.1031	12.94	AVG	11.40	24.34	46.00	-21.66	
9	L1	1.1891	25.00	QP	11.40	36.40	56.00	-19.60	
10	L1	1.1891	12.41	AVG	11.40	23.81	46.00	-22.19	
11	L1	1.4781	25.76	QP	11.40	37.16	56.00	-18.84	
12	L1	1.4781	13.42	AVG	11.40	24.82	46.00	-21.18	

**Test Mode 1: USB Mode**



**Test Data**

**Phase Neutral Plot at 240Vac, 60Hz**

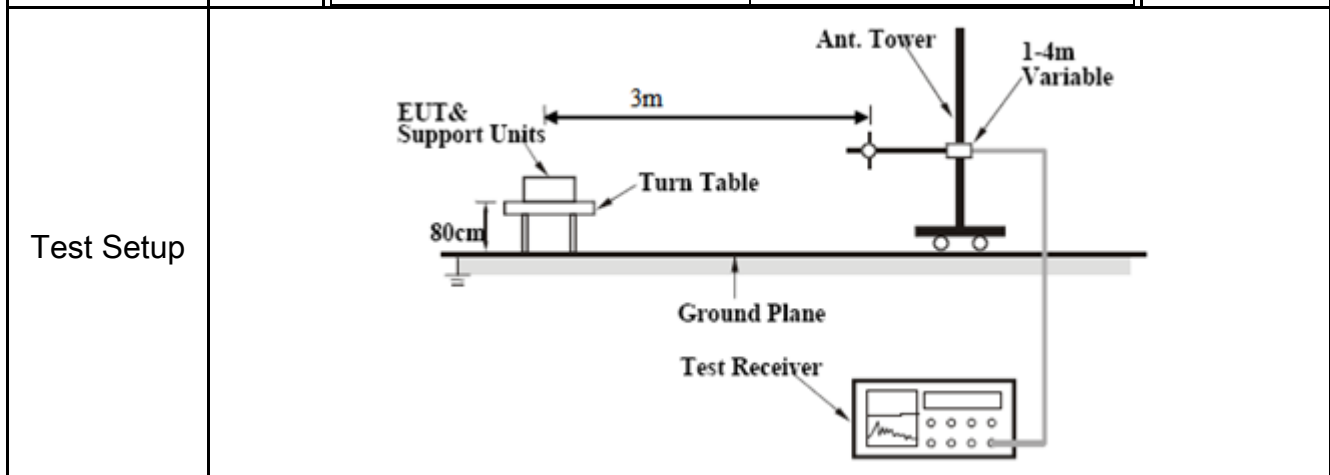
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Comment
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)	
1	N	0.4898	31.32	QP	11.94	43.26	56.17	-12.91	
2	N	0.4898	17.66	AVG	11.94	29.60	46.17	-16.57	
3	N	0.5641	29.63	QP	11.84	41.47	56.00	-14.53	
4	N	0.5641	17.34	AVG	11.84	29.18	46.00	-16.82	
5	N	0.6140	29.69	QP	11.79	41.48	56.00	-14.52	
6	N	0.6140	15.93	AVG	11.79	27.72	46.00	-18.28	
7	N	0.6656	29.58	QP	11.73	41.31	56.00	-14.69	
8	N	0.6656	18.75	AVG	11.73	30.48	46.00	-15.52	
9	N	0.7236	30.75	QP	11.68	42.43	56.00	-13.57	
10	N	0.7236	17.10	AVG	11.68	28.78	46.00	-17.22	
11	N	1.5367	27.74	QP	11.47	39.21	56.00	-16.79	
12	N	1.5367	16.58	AVG	11.47	28.05	46.00	-17.95	

## 6.2 Radiated Emissions

Temperature	20°C
Relative Humidity	59%
Atmospheric Pressure	1017mbar
Test date :	June 17, 2015
Tested By :	Lucifer He

### Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.107(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	<input checked="" type="checkbox"/>										
		<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (<math>\mu\text{V/m}</math>)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>		Frequency range (MHz)	Field Strength ( $\mu\text{V/m}$ )	30 – 88	100	88 – 216	150	216 960	200	Above 960	500
		Frequency range (MHz)		Field Strength ( $\mu\text{V/m}$ )									
		30 – 88		100									
		88 – 216		150									
216 960	200												
Above 960	500												



Procedure	<ol style="list-style-type: none"> <li>1. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:             <ol style="list-style-type: none"> <li>a. Vertical or horizontal polarization (whichever gave the higher emission level</li> </ol> </li> </ol>
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Test Report	15050022-FCC-E
Page	16 of 29

	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.      The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz.      ■ 1 kHz (Duty cycle &lt; 98%) □ 10 Hz (Duty cycle &gt; 98%)</p> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data     Yes                       N/A

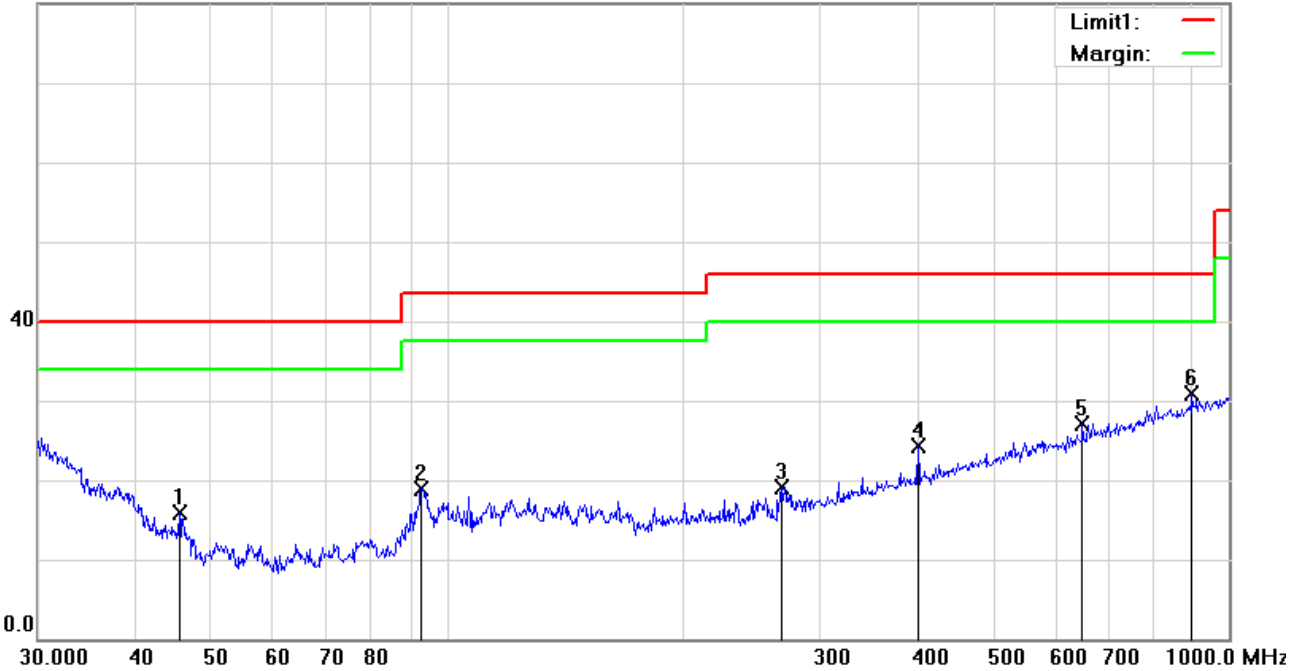
Test Plot     Yes (See below)             N/A



<b>Test Mode:</b>	<b>USB Mode</b>
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**Below 1GHz**

80.0 dBuV/m



**Test Data**

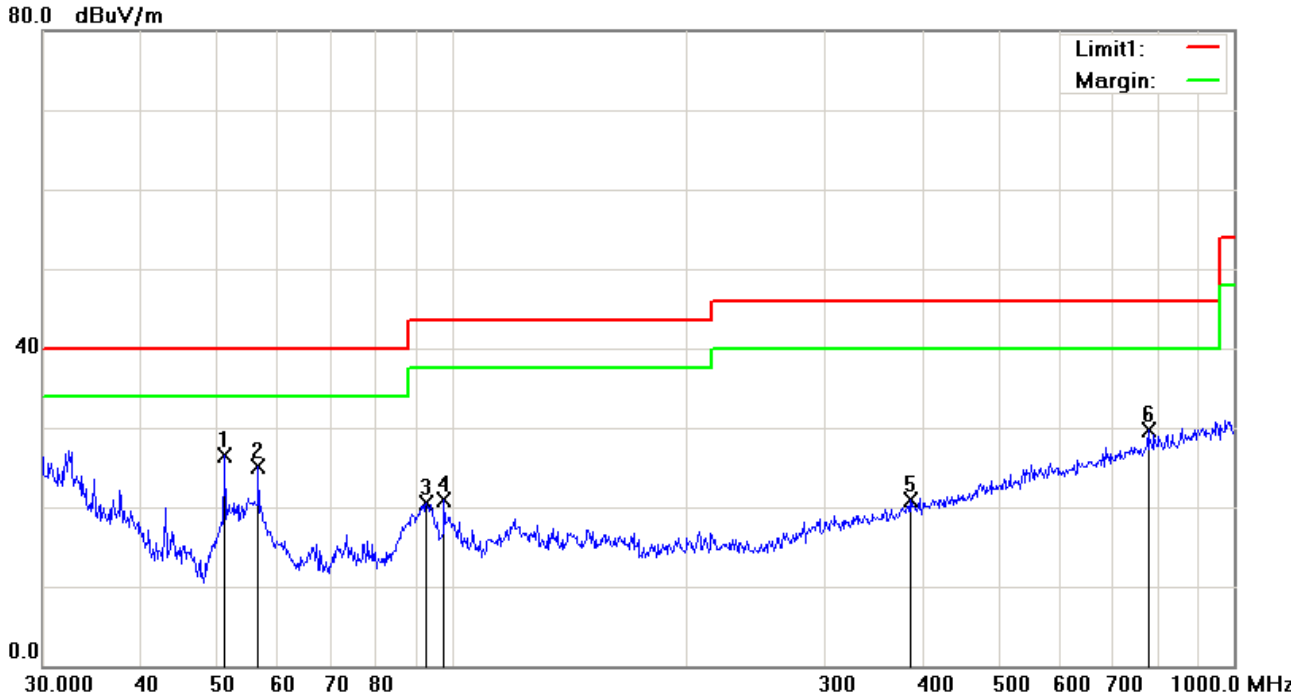
**Horizontal Polarity Plot @3m**

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ( )	Comment
1	H	45.5348	27.05	peak	-11.18	15.87	40.00	-24.13	200	356	
2	H	92.7872	31.64	peak	-12.68	18.96	43.50	-24.54	200	198	
3	H	267.5455	27.54	peak	-8.39	19.15	46.00	-26.85	100	108	
4	H	400.4319	28.52	peak	-4.29	24.23	46.00	-21.77	100	157	
5	H	649.6597	26.34	peak	0.81	27.15	46.00	-18.85	100	123	
6	H	896.9965	26.25	peak	4.64	30.89	46.00	-15.11	162	360	

**Above 1GHz**

Note: The frequency that above 1GHz is mainly from the environment noise.

**Below 1GHz**



**Test Data**

**Vertical Polarity Plot @3m**

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ( )	Comment
1	V	51.3005	39.80	peak	-13.33	26.47	40.00	-13.53	200	205	
2	V	56.5929	39.01	peak	-13.96	25.05	40.00	-14.95	100	22	
3	V	92.7872	33.11	peak	-12.68	20.43	43.50	-23.07	100	195	
4	V	97.7983	32.26	peak	-11.39	20.87	43.50	-22.63	100	218	
5	V	385.2805	25.57	peak	-4.64	20.93	46.00	-25.07	100	117	
6	V	776.8778	26.78	peak	2.84	29.62	46.00	-16.38	200	66	

**Above 1GHz**

*Note: The frequency that above 1GHz is mainly from the environment noise.*

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted Emissions</b>					
EMI test receiver	ESCS30	8471241027	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	09/02/2014	09/01/2015	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/25/2014	09/24/2015	<input checked="" type="checkbox"/>

**Annex B. EUT And Test Setup Photographs**

**Annex B.i. Photograph: EUT External Photo**



Whole Package - Top View



Adapter - Front View



EUT - Front View



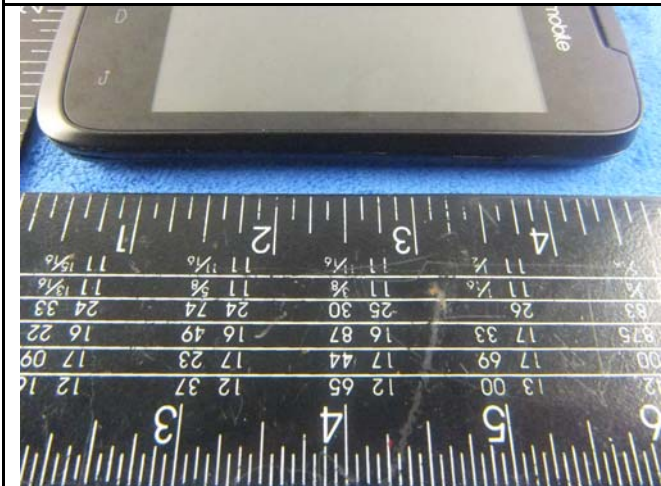
EUT - Rear View



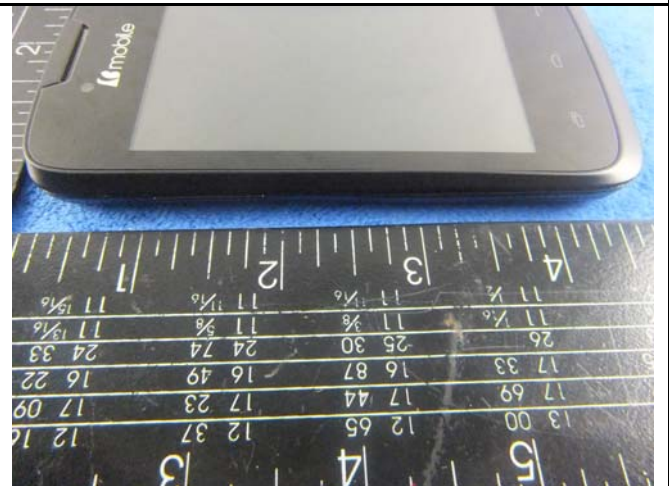
EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View

**Annex B.ii. Photograph: EUT Internal Photo**



Cover Off - Top View



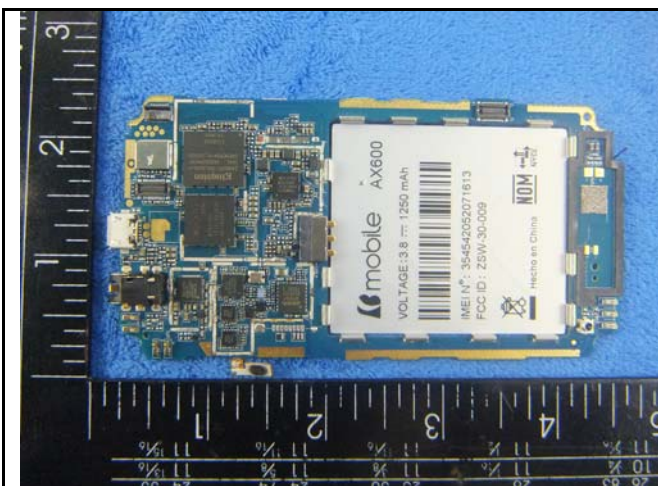
Battery - Top View



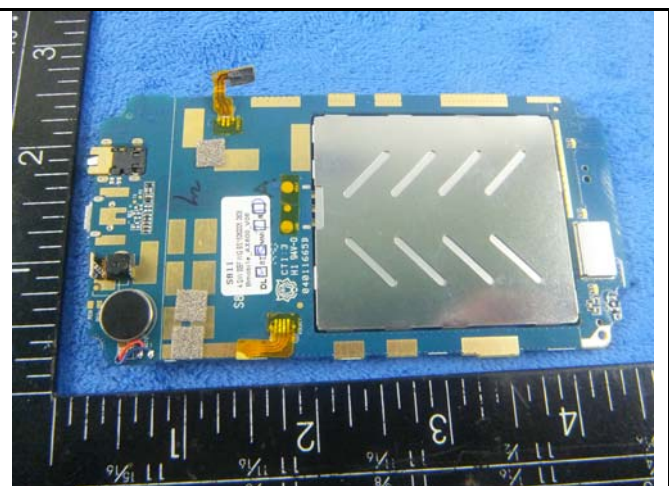
Battery - Bottom View



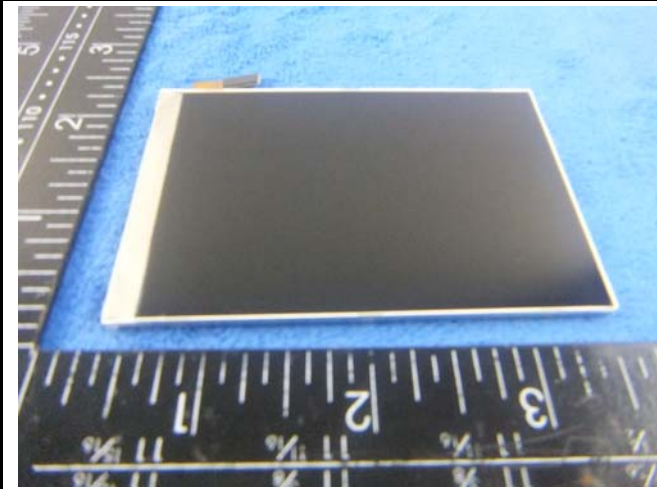
Mainboard With Shielding - Front View



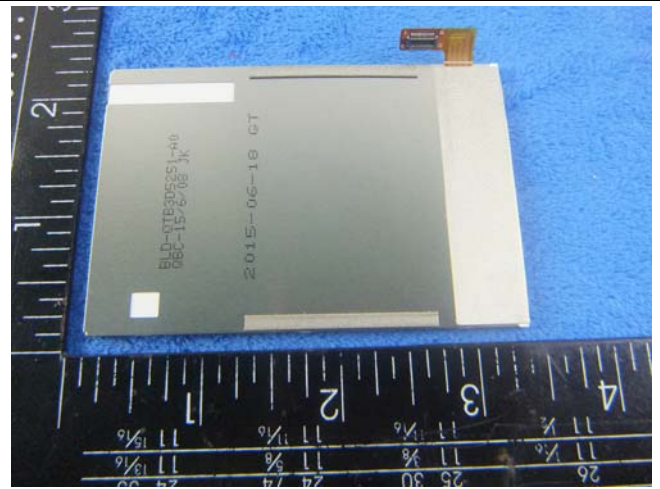
Mainboard Without Shielding - Front View



Mainboard - rear View



LCD - Front View LCD – Rear View



LCD – Rear View



WIFI/BT/BLE - Antenna View



GSM/PCS/UMTS-FDD Antenna View

**Annex B.iii. Photograph: Test Setup Photo**



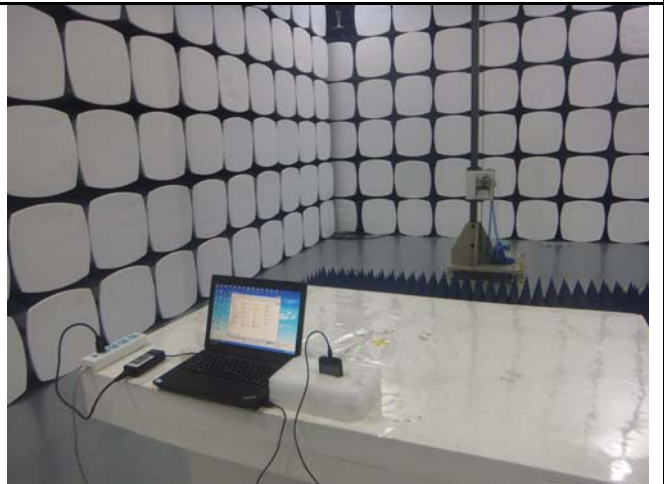
Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View



Radiated Spurious Emissions Test Setup Below 1GHz



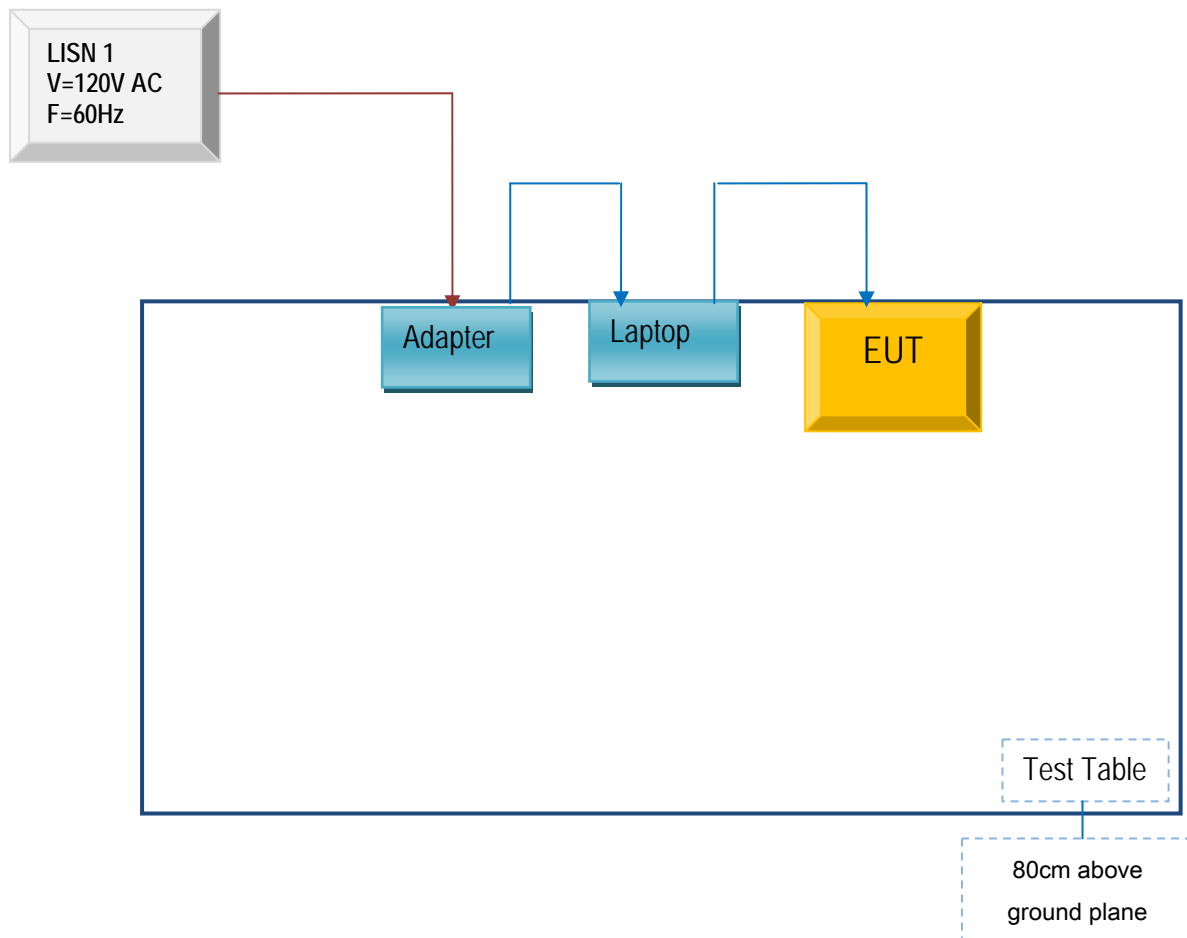
Radiated Spurious Emissions Test Setup Above 1GHz



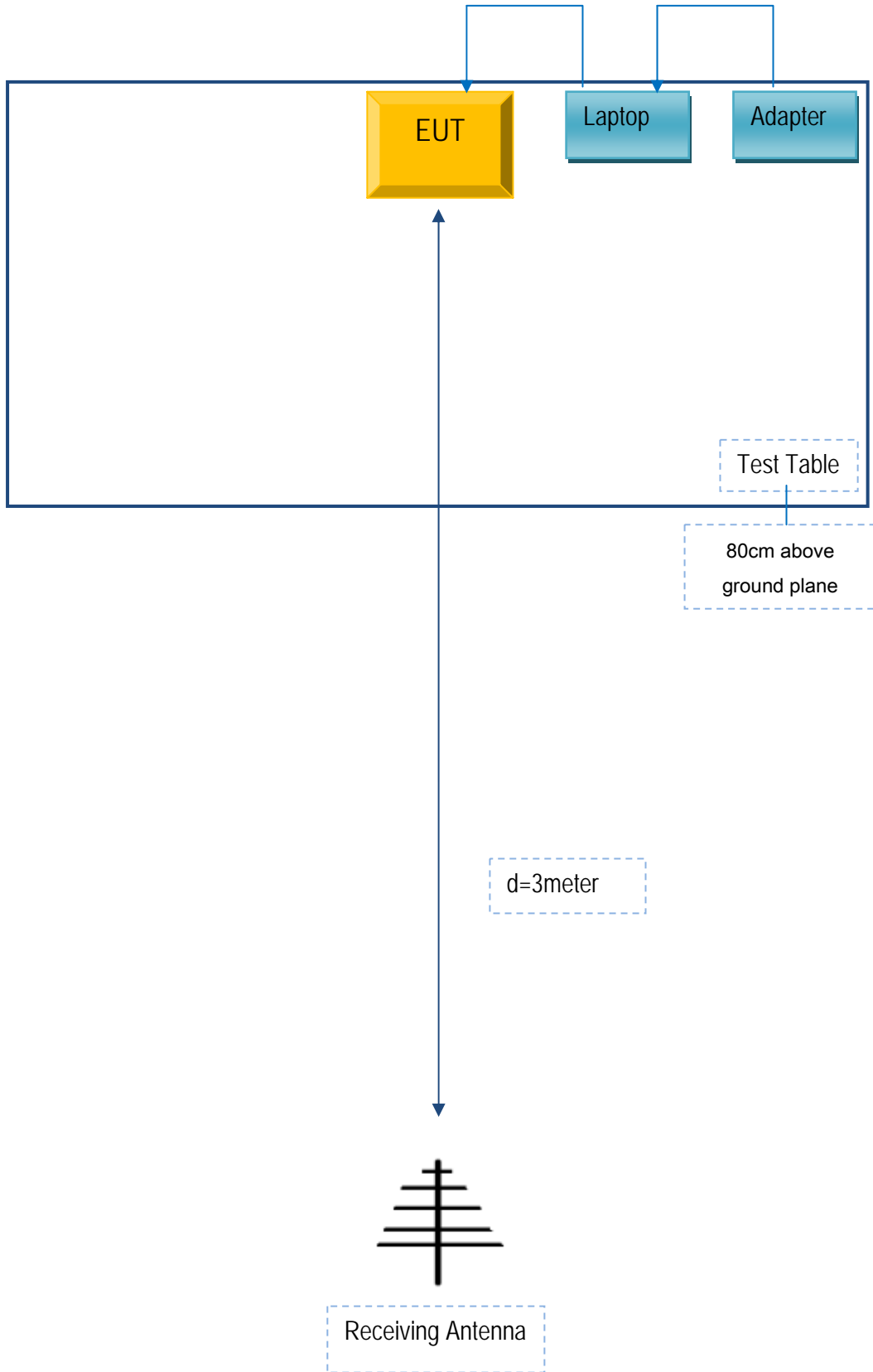
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

#### Block Configuration Diagram for Conducted Emissions



### Block Configuration Diagram for Radiated Emissions



### Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
Lenovo	Lenovo Laptop	E40& 0579A52	N/A	N/A

Test Report	15050022-FCC-E
Page	28 of 29

**Annex D. User Manual / Block Diagram / Schematics / Partlist**

Please see Attachment

## Annex E. DECLARATION OF SIMILARITY

b Mobile HK Limited

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To SIEMIC Inc  
775 Montague Expressway  
Milpitas, CA 95035.

### Statement

We, b Mobile HK Limited apply a multiple-listing certification for the below models.

Product Name: Mobile phone

Model number: AX600/ AX630

FCC ID: ZSW-30-009

We hereby state that these models are identical in interior structure, electrical circuits and components, and just model name is different for the marketing requirement.

Your assistance on this matter is highly appreciated.

Sincerely,  
Name: KA SHING LAM  
Title: Director  
Signature:

*For and on behalf of*  
**b mobile HK Limited**  
  
.....  
*Authorized Signature(s)*