

# EMC TEST REPORT



Report No.: 15071187-FCC-E

Supersede Report No.:N/A

Applicant	Quality One Wireless LLC	
Product Name	3G Mobile Phone	
Model No.	Z219	
Serial No.	N/A	
Test Standard	FCC Part 15 Subpart B Class B:2014, ANSI C63.4: 2014	
Test Date	October 22 to December 09, 2015	
Issue Date	December 23, 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"/>		
Winnie Zhang	David Huang	
Winnie Zhang 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

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: [China@siemic.com.cn](mailto:China@siemic.com.cn)

## 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

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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
15071187-FCC-E	NONE	Original	December 09,2015
15071187-FCC-E	V1	Change EUT Photos	December 19, 2015
15071187-FCC-E	V2	Delete calibration date	December 23, 2015

## 2. Customer information

Applicant Name	Quality One Wireless LLC
Applicant Add	1500 Tradeport Drive Orlando, FL 32824
Manufacturer	Shenzhen Haierhea Telecom Co.,Ltd.
Manufacturer Add	Room 418,Block M-3,Middle of Hi-Tech Park,Nanshan,Shenzhen,China 518057

## 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: 3G Mobile Phone

Main Model: Z219

Serial Model: N/A

GSM850: -3dBi

PCS1900: -3 dBi

UMTS-FDD Band V: -3 dBi

UMTS-FDD Band IV: -3 dBi

Antenna Gain: UMTS-FDD Band II: -3 dBi

Bluetooth: -1 dBi

GPS:-1 dBi

Adapter:

Model: JT-H050050

Input: AC 100-240V; 50/60Hz;150mA

Input Power: Output: DC 5.0V,500mA

Battery:

Model: Z219

Spec:3.7Vcc,800mAh,2.96Wh

Equipment Category : JBP

GSM / GPRS: GMSK

Type of Modulation: UMTS-FDD: QPSK, 16QAM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

GPS:BPSK

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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 IV TX: 1712.4 ~ 1752.6 MHz;  
RF Operating Frequency (ies): RX : 2112.4 ~ 2152.6 MHz  
UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;  
RX: 1932.4 ~ 1987.6 MHz  
Bluetooth: 2402-2480 MHz  
GPS RX: 1575.42 MHz

GSM 850: 124CH  
PCS1900: 299CH  
UMTS-FDD Band V : 102CH  
Number of Channels: UMTS-FDD Band IV: 202CH  
UMTS-FDD Band II : 277CH  
Bluetooth: 79CH  
GPS: 1CH

Port: Power Port, Earphone Port, USB Port

Trade Name : N/A

FCC ID: 2AGP4Z219

Date EUT received: October 21, 2015

Test Date(s): October 22 to December 03, 2015

## 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

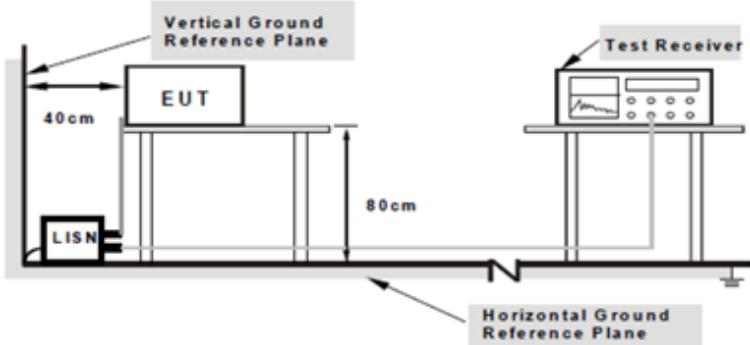
Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	28°C
Relative Humidity	52%
Atmospheric Pressure	1028mbar
Test date :	November 28, 2015
Tested By :	Winnie Zhang

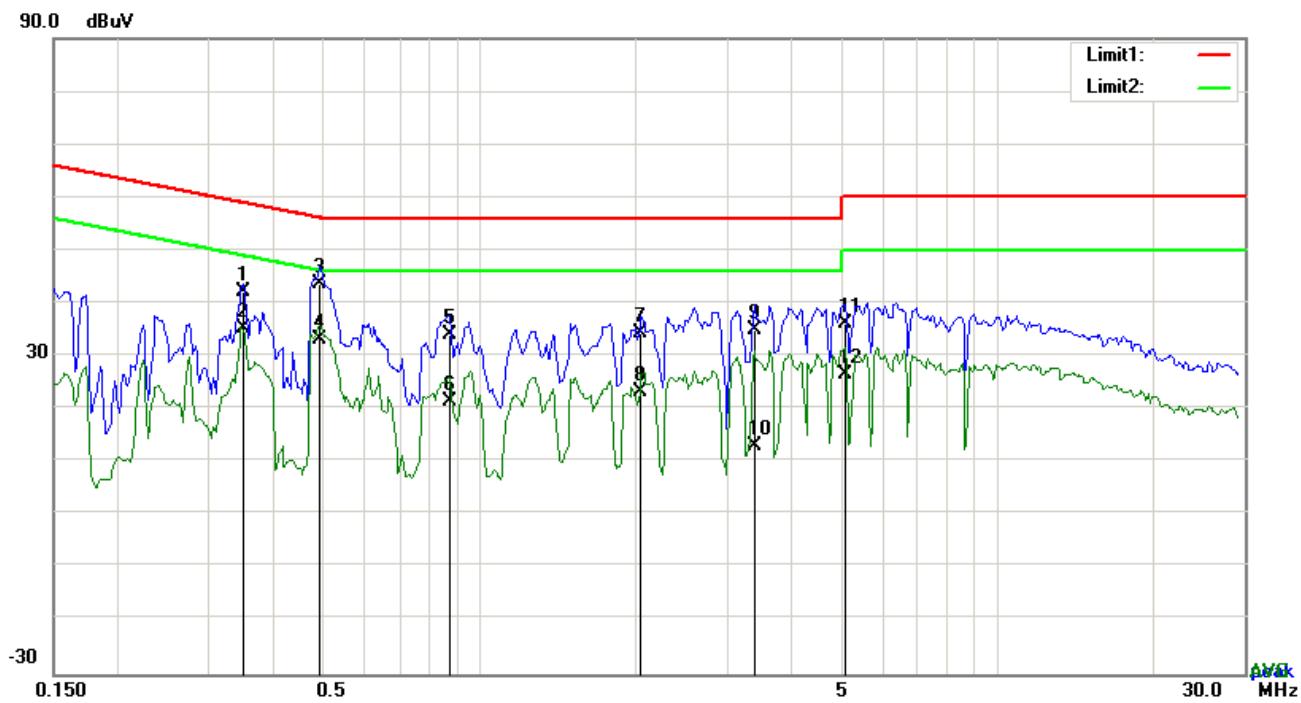
#### Requirement(s):

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 [mu] 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 (dB<math>\mu</math>V)</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 (dB $\mu$ V)		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 (dB $\mu$ V)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															
Test Setup	 <p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a table. A LISN (Line Impedance Stabilization Network) is connected between the EUT and the power source. A Test Receiver is connected to the LISN. The setup is positioned on a horizontal ground reference plane. The distance between the LISN and the EUT is 40 cm, and the distance between the LISN and the Test Receiver is 80 cm. A vertical ground reference plane is also indicated.</p> <p><b>Note:</b>    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.</p>																
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 50Ω /50mH EUT LISN, connected to filtered mains.</li> </ol>																

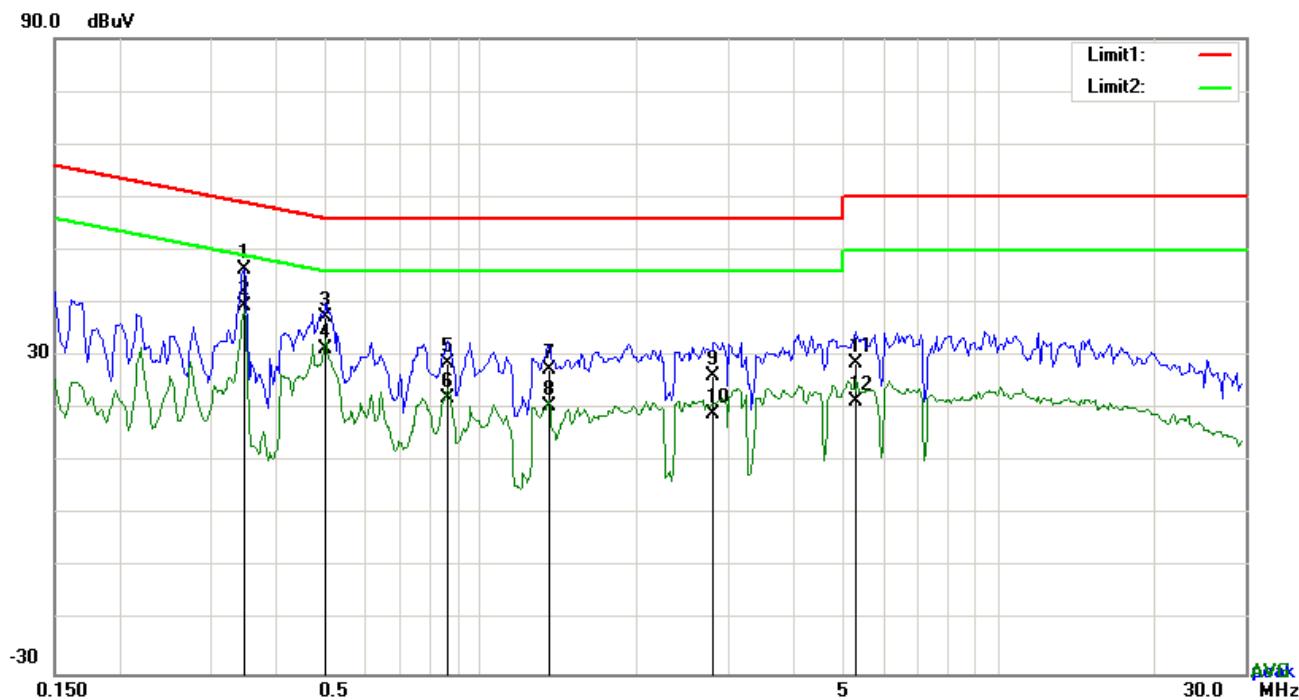
	<ol style="list-style-type: none"> <li>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal 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

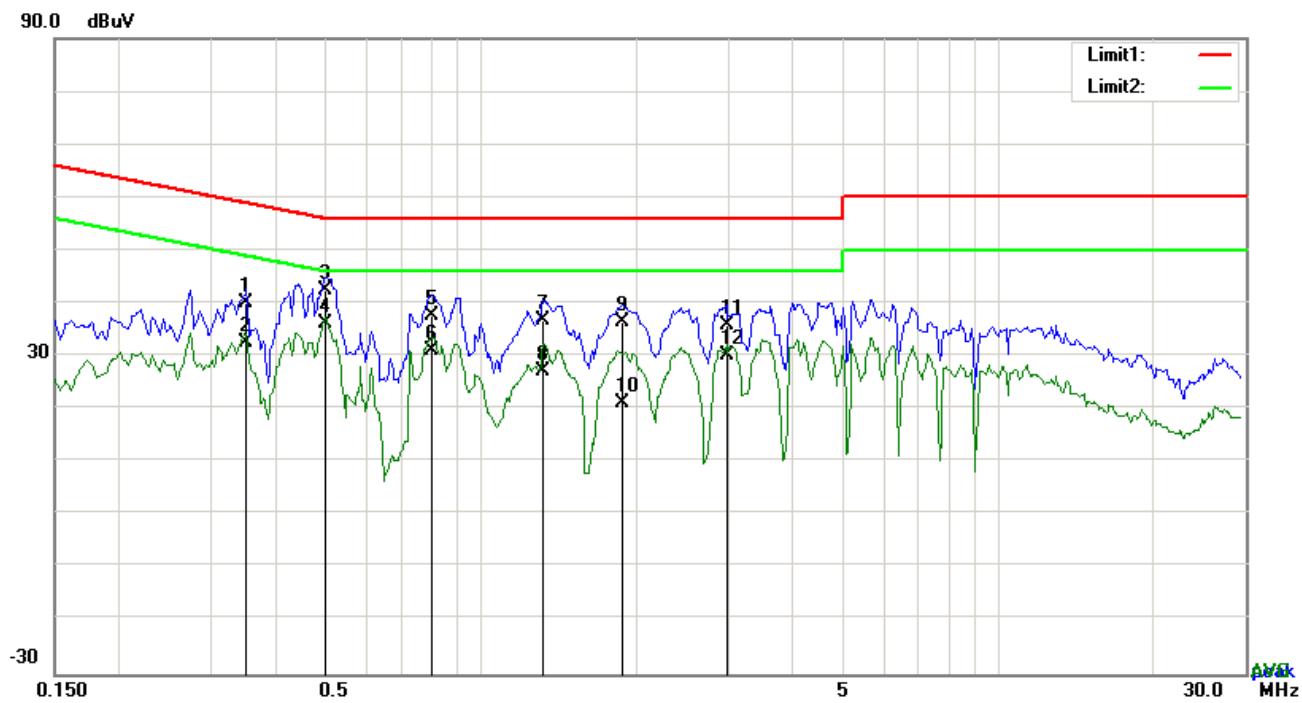
Test Plot  Yes (See below)  N/A

**Test Mode : USB Mode**

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

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.3489	32.25	QP	10.03	42.28	58.99	-16.71
2	L1	0.3489	25.22	AVG	10.03	35.25	48.99	-13.74
3	L1	0.4893	33.53	QP	10.03	43.56	56.18	-12.62
4	L1	0.4893	23.04	AVG	10.03	33.07	46.18	-13.11
5	L1	0.8754	23.88	QP	10.03	33.91	56.00	-22.09
6	L1	0.8754	11.48	AVG	10.03	21.51	46.00	-24.49
7	L1	2.0493	24.26	QP	10.04	34.30	56.00	-21.70
8	L1	2.0493	13.15	AVG	10.04	23.19	46.00	-22.81
9	L1	3.3861	24.99	QP	10.06	35.05	56.00	-20.95
10	L1	3.3861	3.01	AVG	10.06	13.07	46.00	-32.93
11	L1	5.0631	26.14	QP	10.08	36.22	60.00	-23.78
12	L1	5.0631	16.39	AVG	10.08	26.47	50.00	-23.53

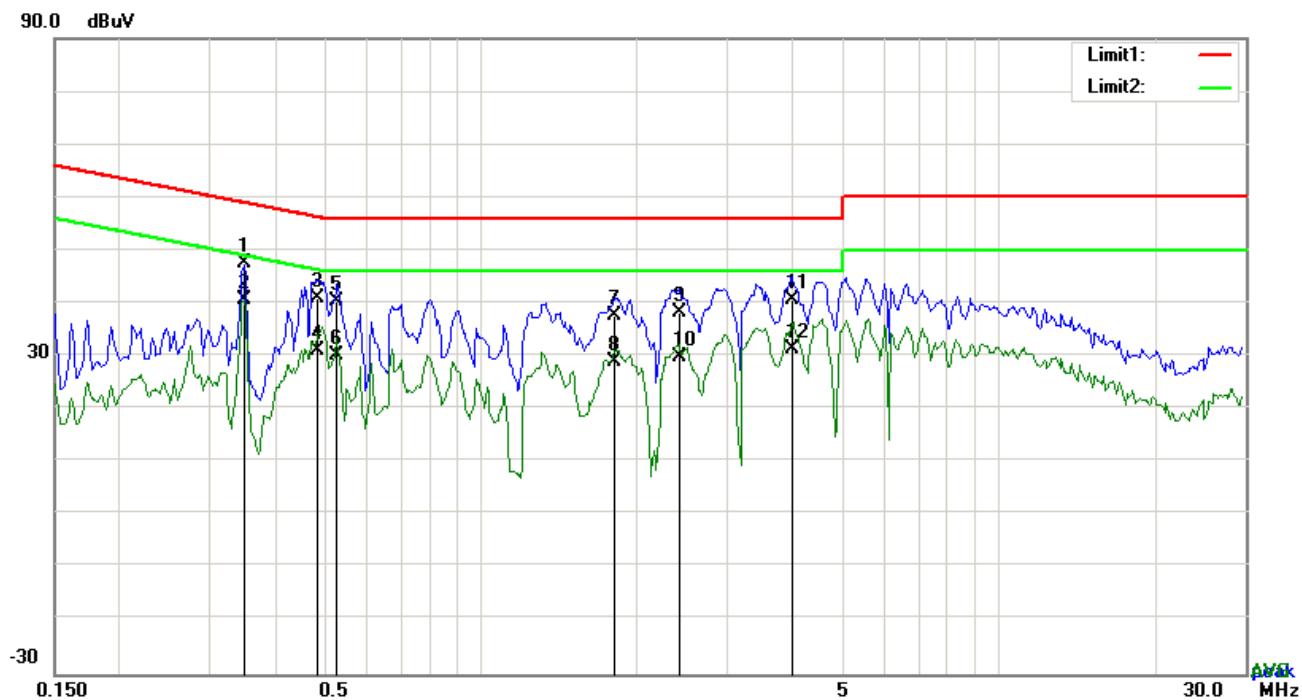
**Test Mode : USB Mode**

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

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.3489	36.32	QP	10.02	46.34	58.99	-12.65
2	N	0.3489	29.38	AVG	10.02	39.40	48.99	-9.59
3	N	0.5010	27.44	QP	10.02	37.46	56.00	-18.54
4	N	0.5010	21.37	AVG	10.02	31.39	46.00	-14.61
5	N	0.8637	18.72	QP	10.03	28.75	56.00	-27.25
6	N	0.8637	12.14	AVG	10.03	22.17	46.00	-23.83
7	N	1.3551	17.38	QP	10.03	27.41	56.00	-28.59
8	N	1.3551	10.38	AVG	10.03	20.41	46.00	-25.59
9	N	2.8137	16.26	QP	10.05	26.31	56.00	-29.69
10	N	2.8137	9.01	AVG	10.05	19.06	46.00	-26.94
11	N	5.2854	18.57	QP	10.07	28.64	60.00	-31.36
12	N	5.2854	11.30	AVG	10.07	21.37	50.00	-28.63

**Test Mode :** USB Mode

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

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.3528	29.97	QP	10.03	40.00	58.90	-18.90
2	L1	0.3528	22.44	AVG	10.03	32.47	48.90	-16.43
3	L1	0.5010	32.32	QP	10.03	42.35	56.00	-13.65
4	L1	0.5010	26.05	AVG	10.03	36.08	46.00	-9.92
5	L1	0.8013	27.71	QP	10.03	37.74	56.00	-18.26
6	L1	0.8013	20.99	AVG	10.03	31.02	46.00	-14.98
7	L1	1.3200	26.57	QP	10.03	36.60	56.00	-19.40
8	L1	1.3200	17.04	AVG	10.03	27.07	46.00	-18.93
9	L1	1.8738	26.30	QP	10.04	36.34	56.00	-19.66
10	L1	1.8738	11.18	AVG	10.04	21.22	46.00	-24.78
11	L1	2.9814	25.84	QP	10.05	35.89	56.00	-20.11
12	L1	2.9814	20.06	AVG	10.05	30.11	46.00	-15.89

Test Mode : **USB Mode**



**Test Data**

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.3489	37.54	QP	10.02	47.56	58.99	-11.43
2	N	0.3489	30.57	AVG	10.02	40.59	48.99	-8.40
3	N	0.4815	30.79	QP	10.02	40.81	56.31	-15.50
4	N	0.4815	21.18	AVG	10.02	31.20	46.31	-15.11
5	N	0.5283	30.48	QP	10.02	40.50	56.00	-15.50
6	N	0.5283	20.05	AVG	10.02	30.07	46.00	-15.93
7	N	1.8153	27.47	QP	10.04	37.51	56.00	-18.49
8	N	1.8153	18.90	AVG	10.04	28.94	46.00	-17.06
9	N	2.4120	28.34	QP	10.04	38.38	56.00	-17.62
10	N	2.4120	19.72	AVG	10.04	29.76	46.00	-16.24
11	N	3.9867	30.68	QP	10.06	40.74	56.00	-15.26
12	N	3.9867	21.33	AVG	10.06	31.39	46.00	-14.61

## 6.2 Radiated Emissions

Temperature	28°C
Relative Humidity	52%
Atmospheric Pressure	1028mbar
Test date :	November 28, 2015
Tested By :	Winnie Zhang

### Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.109(d)	a)	<p>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</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (<math>\mu</math>V/m)</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 ( $\mu$ V/m)	30 – 88	100	88 – 216	150	216 – 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength ( $\mu$ V/m)												
30 – 88	100												
88 – 216	150												
216 – 960	200												
Above 960	500												
Test Setup		 <p>The diagram illustrates the test setup. A 'Turn Table' is positioned on a 'Ground Plane'. An 'EUT &amp; Support Units' assembly is mounted on the turn table, with a vertical height of 80cm indicated. A 'Test Receiver' is connected to the turn table. A vertical 'Ant. Tower' is mounted on the turn table, with a height of 1-4m indicated as 'Variable'. A horizontal distance of 3m is marked between the EUT and the Ant. Tower.</p>											
Procedure		<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>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>Vertical or horizontal polarization (whichever gave the higher emission level)</li> </ol> </li> </ol>											

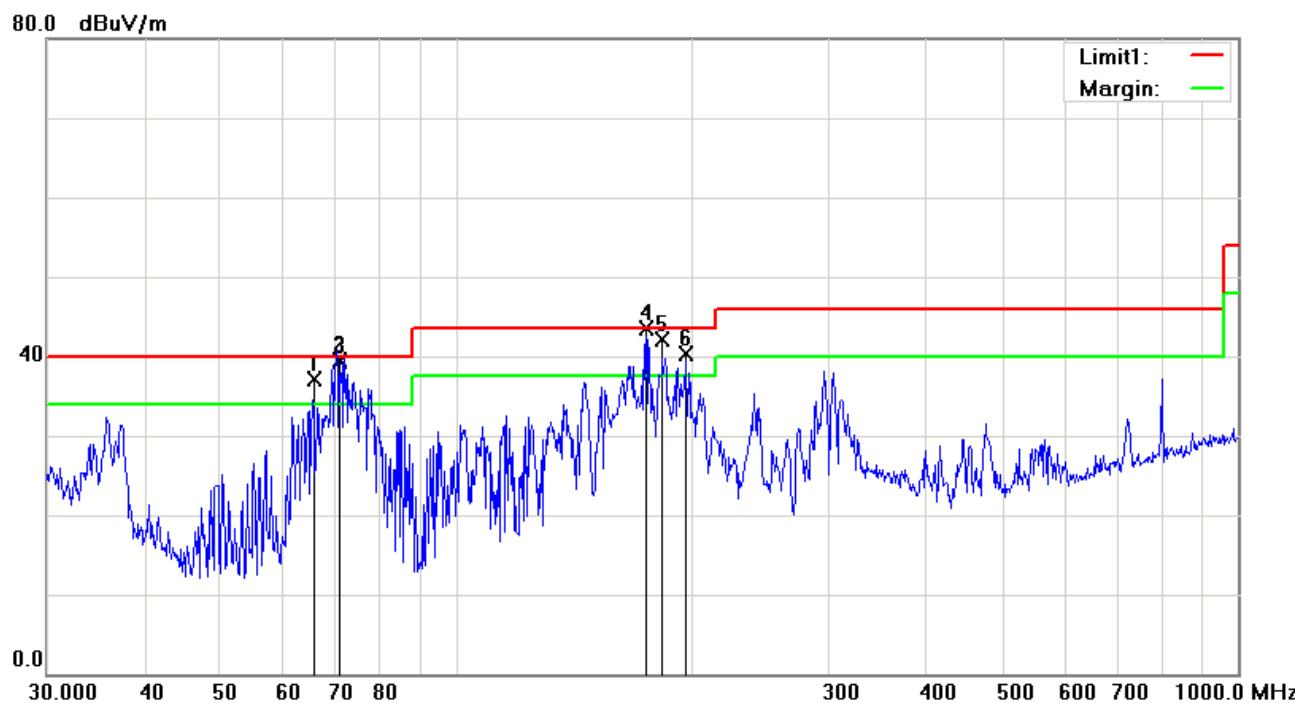
	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum 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.</p> <p>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.</p> <ul style="list-style-type: none"> <li>■ 1 kHz (Duty cycle &lt; 98%) <input type="checkbox"/> 10 Hz (Duty cycle &gt; 98%)</li> </ul> <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

Test Mode : USB Mode

Below 1GHz

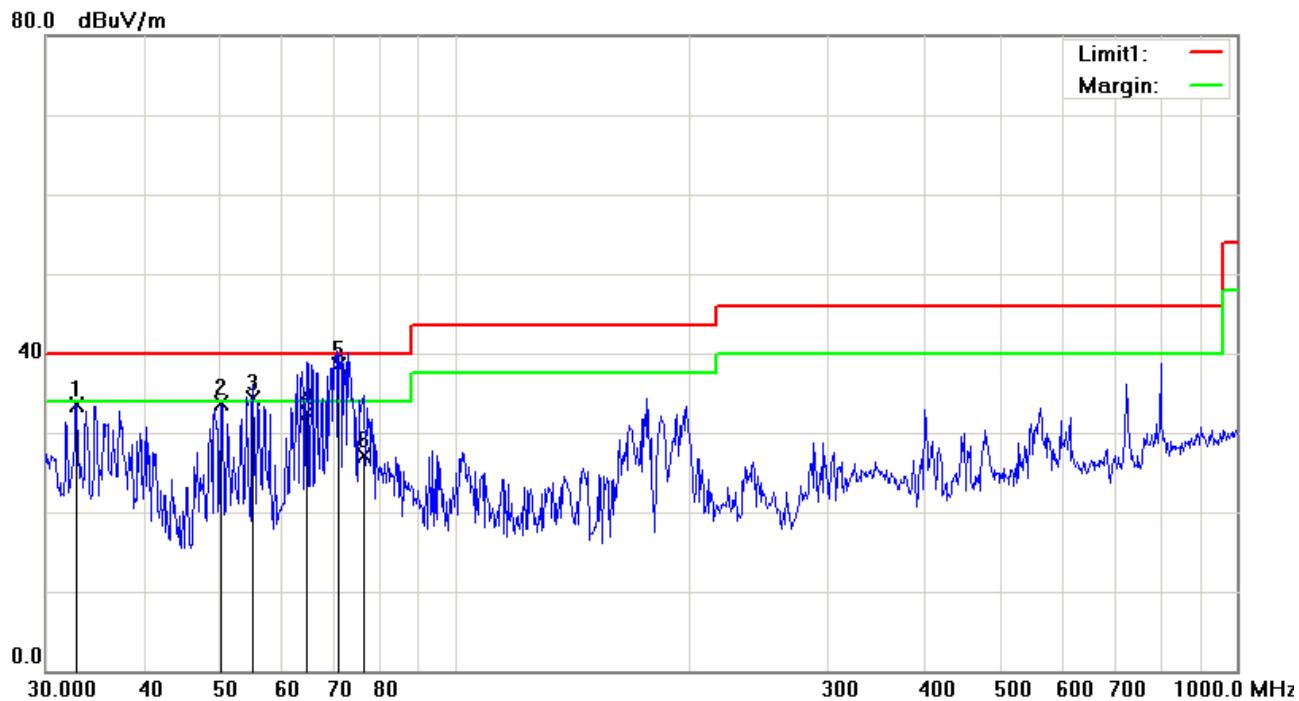


### Test Data

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
1	H	65.8085	50.96	QP	-13.90	37.06	40.00	-2.94	100	102
2	H	71.2511	53.23	QP	-13.65	39.58	40.00	-0.42	100	102
3	H	71.2516	52.94	QP	-13.65	39.29	40.00	-0.71	100	102
4	H	175.1627	52.98	QP	-9.50	43.48	43.50	-0.02	100	154
5	H	183.8700	51.80	QP	-9.64	42.16	43.50	-1.34	100	166
6	H	196.4508	49.23	QP	-8.92	40.31	43.50	-3.19	100	154

**Below 1GHz**



**Test Data**

Vertical Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m )	(dBuV/m)	(dB)	(cm)	( )
1	V	32.8637	35.92	peak	-2.37	33.55	40.00	-6.45	100	261
2	V	50.2325	46.82	peak	-13.21	33.61	40.00	-6.39	100	73
3	V	55.3126	48.02	QP	-13.80	34.22	40.00	-5.78	100	191
4	V	64.8352	46.44	QP	-13.98	32.46	40.00	-7.54	100	259
5	V	71.2509	52.18	QP	-13.65	38.53	40.00	-1.47	100	176
6	V	76.4502	40.82	QP	-13.75	27.07	40.00	-12.93	100	305

**Above 1GHz**

Frequency (MHz)	Amplitude (dB $\mu$ V/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector (PK/AV)
1420.01	48.46	46	180	V	-21.23	74	-25.44	PK
2852.12	46.12	125	160	V	-22.75	74	-27.88	PK
1764.25	50.45	75	210	V	-23.12	74	-23.55	PK
2677.38	49.98	65	230	H	-23.33	74	-24.02	PK
2984.15	50.63	96	150	H	-22.86	74	-23.37	PK
2188.02	50.12	85	170	H	-22.46	74	-23.88	PK

*Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5\*2480MHz=12,400MHz.*

*Note2: The frequency that above 3GHz is mainly from the environment noise.*

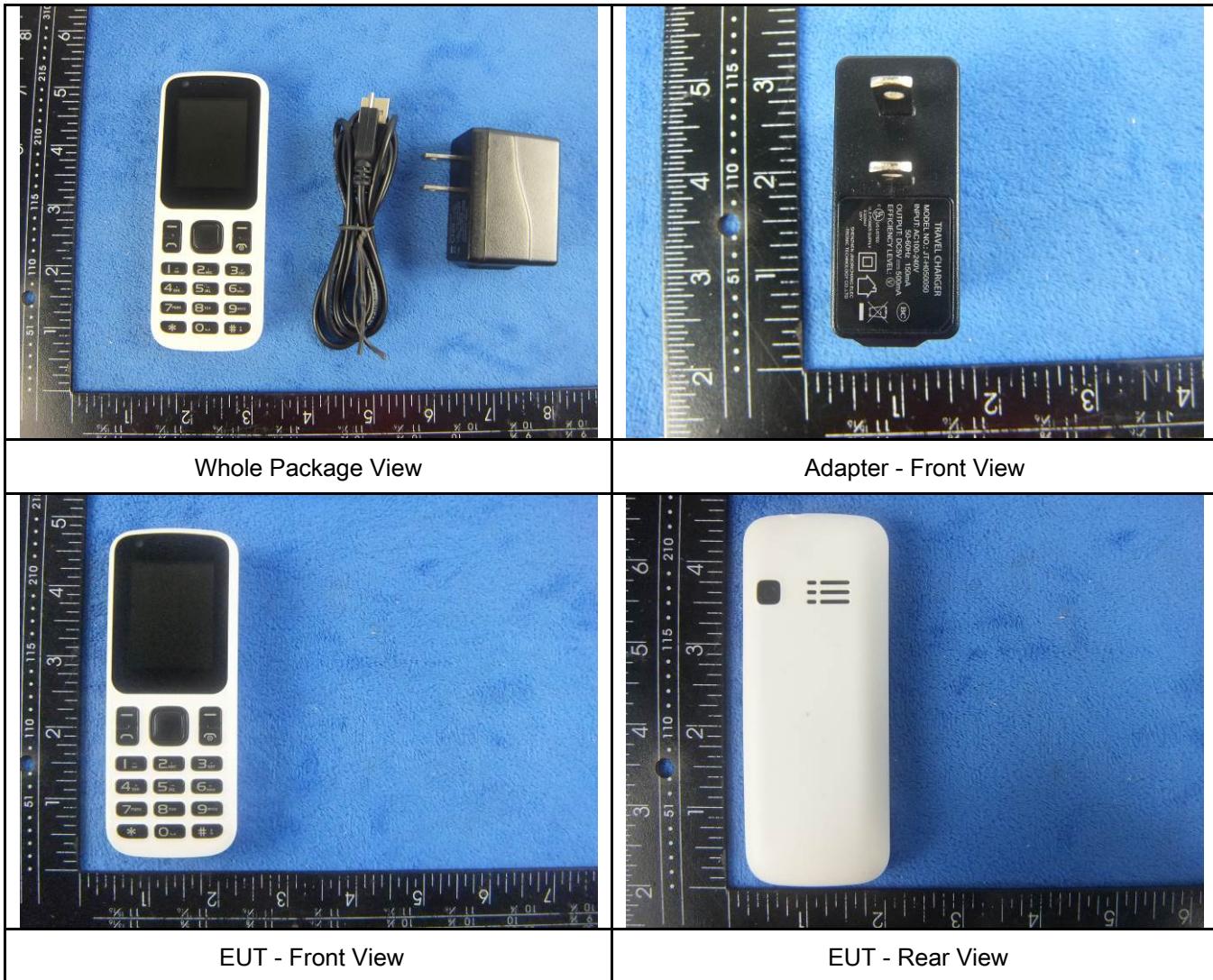
*Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.*

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted Emissions</b>					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	<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	09/21/2015	09/20/2016	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/24/2015	09/23/2016	<input checked="" type="checkbox"/>

## Annex B. EUT And Test Setup Photographs

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





EUT - Top View



EUT - Bottom View

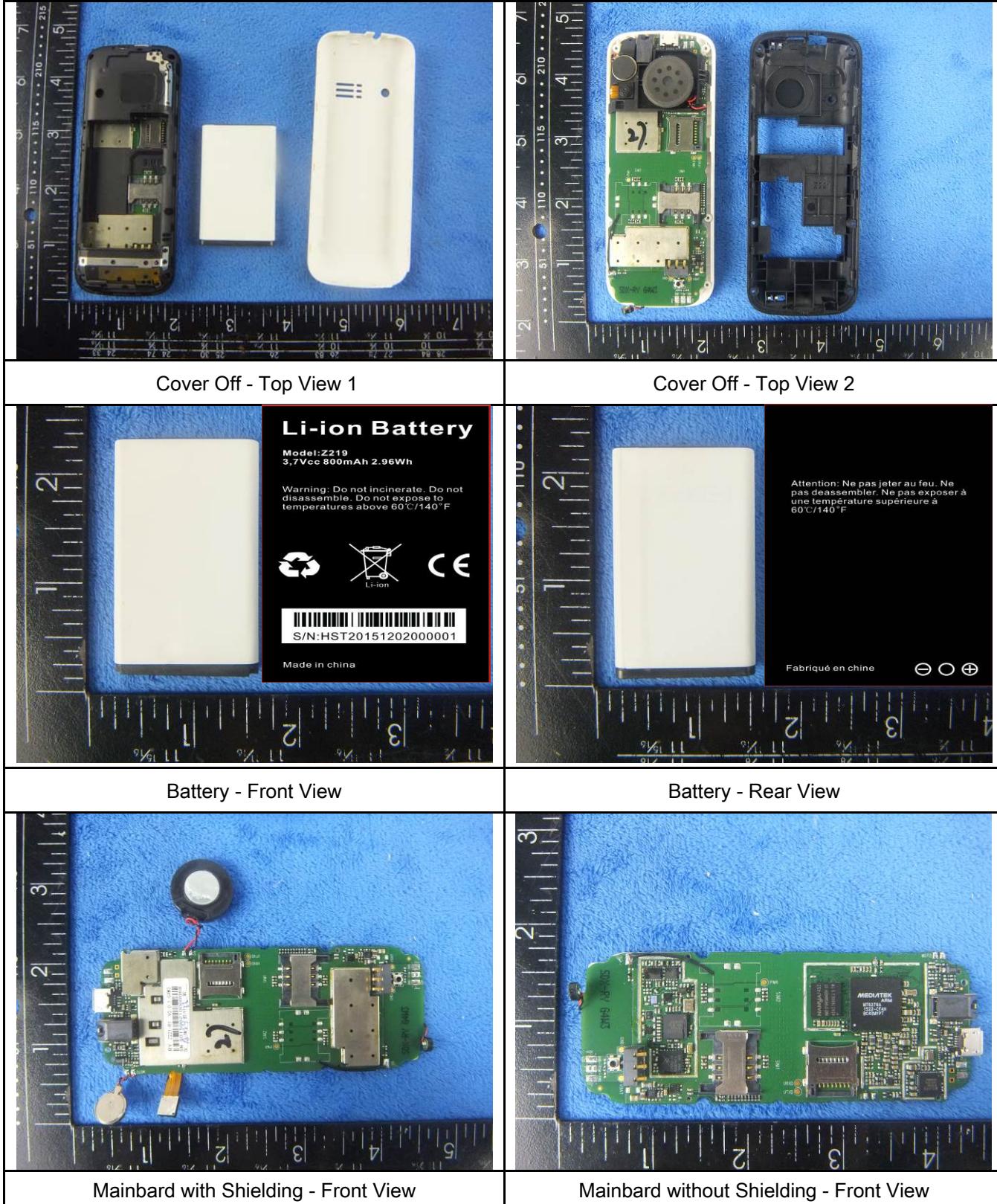


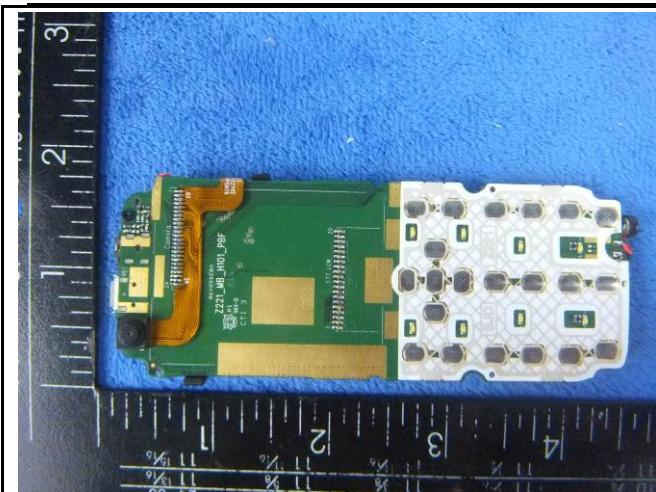
EUT - Left View



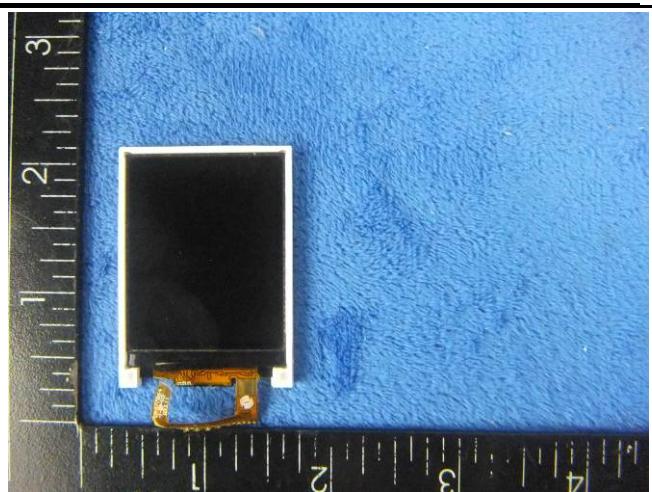
EUT - Right View

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

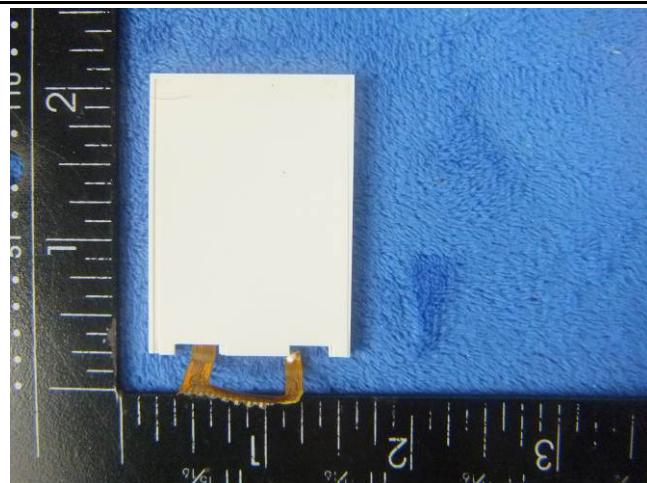




Mainboard – Rear View



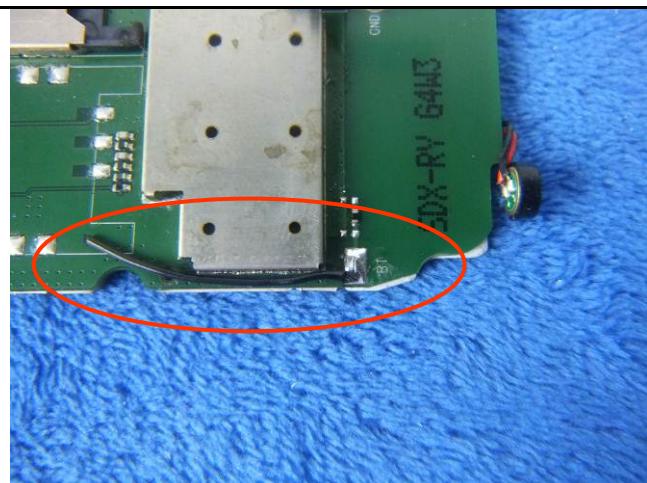
LCD – Front View



LCD – Rear View



GSM/PCS/UMTS-FDD Antenna View



BT - Antenna View

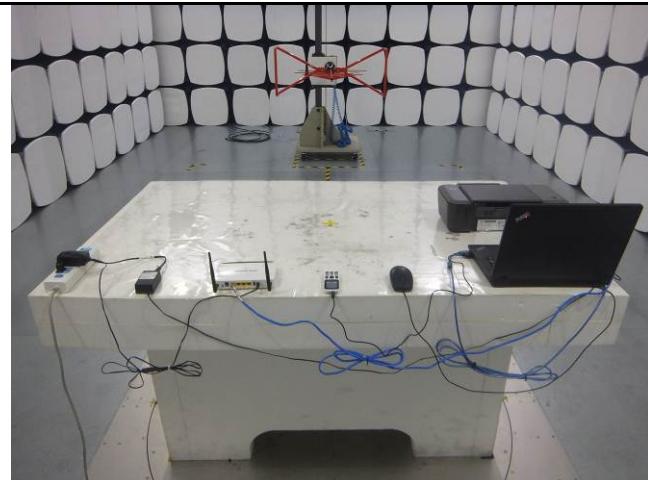
**Annex B.iii. Photograph: Test Setup Photo**



Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View



Radiated Emissions Test Setup Below 1GHz

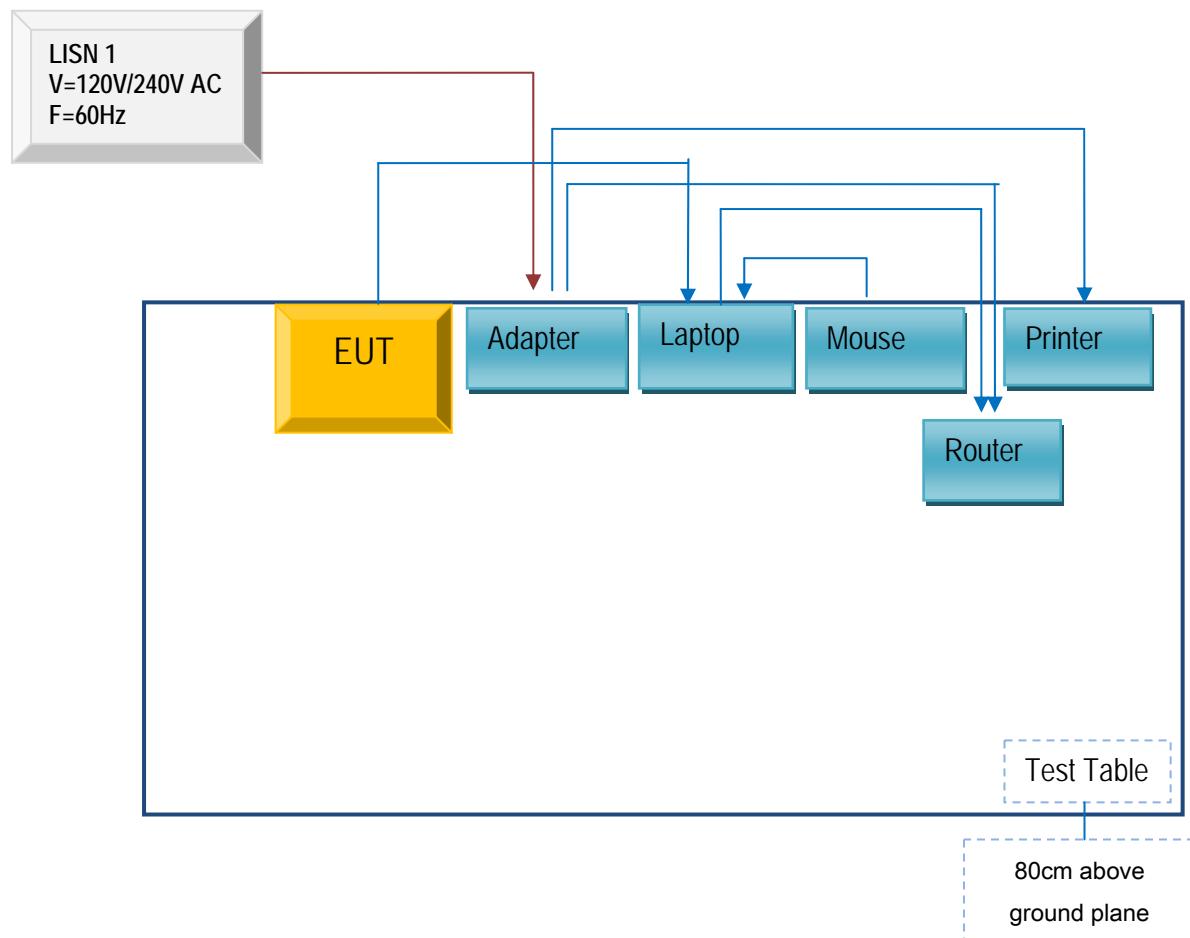


Radiated Emissions Test Setup Above 1GHz

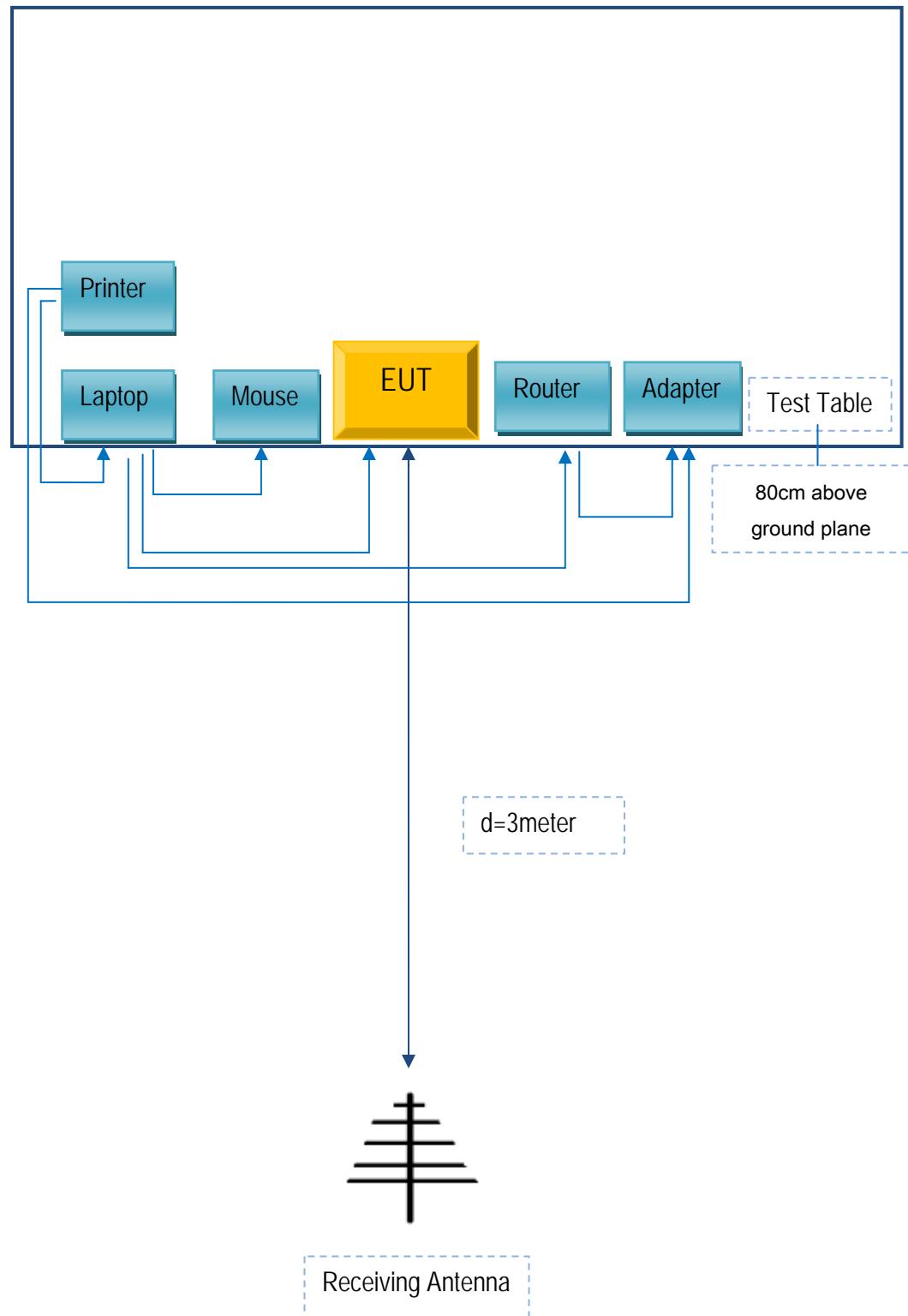
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### 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.

### Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
MACATE GROUP CORPORATION	Adapter	A88-502000	CN15020403

### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
RJ45 Cable	Un-shielding	No	2m	KX156327541
Router Power cable	Un-shielding	No	2m	13274630Z
Printer Power cable	Un-shielding	No	2m	127581031
USB Cable	Un-shielding	No	0.8m	HM542214

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

Please see Attachment

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## Annex E. DECLARATION OF SIMILARITY

N/A