

# EMC TEST REPORT



Report No.: 17070384-FCC-E-V1

Supersede Report No: N/A

Applicant	Power Idea Technology (Shenzhen) Co., Ltd.	
Product Name	WCDMA Digital Mobile Phone	
Model No.	RG160	
Serial No.	RG400	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	May 27 to August 06, 2017	
Issue Date	August 24, 2017	
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>Evans He</i>	<i>David Huang</i>	
Evans 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

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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070384-FCC-E	NONE	Original	August 07, 2017
17070384-FCC-E-V1	V1	P5 Changed the FCC Test Site No.	August 24, 2017

## 2. Customer information

Applicant Name	Power Idea Technology (Shenzhen) Co., Ltd.
Applicant Add	4th Floor, A Section , Languang Science&technology Building , No.7 Xinxi RD , Hi-Tech Industrial Park North , Nanshan District , ShenZhen , P.R.C.
Manufacturer	Power Idea Technology (Shenzhen) Co., Ltd.
Manufacturer Add	4th Floor, A Section , Languang Science&technology Building , No.7 Xinxi RD , Hi-Tech Industrial Park North , Nanshan District , ShenZhen , P.R.C.

## 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.	535293
IC Test Site No.	4842E-1
Test Software of Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.lcp-03A1)

## 4. Equipment under Test (EUT) Information

Description of EUT:	WCDMA Digital Mobile Phone
Main Model:	RG160
Serial Model:	RG400
Antenna Gain:	GSM850: -1.5dBi PCS1900: 1.7dBi UMTS-FDD Band V: -1.5dBi UMTS-FDD Band II: 2.0dBi WIFI: 2.9dBi Bluetooth/BLE: 2.9dBi GPS: 1.9dBi
Antenna Type:	PIFA antenna
Input Power:	Adapter: Model: HKC0055010-2D Input: AC100-240V~50/60Hz, 0.2A Output: DC 5.0V, 1.0A Battery Model: BL180DI Spec: 3.7V/1800mAh(6.66Wh) Charge Limit: 4.2Vdc
Equipment Category :	JBP
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK 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): 2412-2462 MHz  
WIFI: 802.11n(40M): 2422-2452 MHz  
Bluetooth& BLE: 2402-2480 MHz  
GPS: 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): 11CH  
WIFI :802.11n(40M): 7CH  
Bluetooth: 79CH  
BLE: 40CH  
GPS:1CH

Port: USB Port, Earphone Port

Trade Name : N/A

FCC ID: ZLE-RG160

GPRS/ EGPRS Multi-slot class 8/10/12

Date EUT received: May 26, 2017

Test Date(s): May 27 to August 06, 2017

## 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

Parameter	Uncertainty
AC Power Line Conducted Emissions (150kHz~30MHz)	±3.11dB
Radiated Emission(30MHz~1GHz)	±5.12dB
Radiated Emission(1GHz~6GHz)	±5.34dB




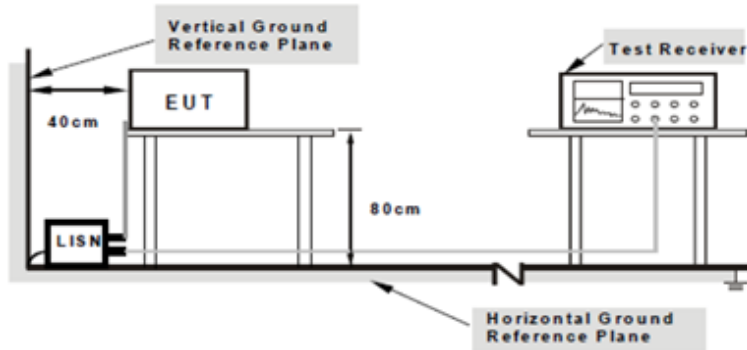
## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	56%
Atmospheric Pressure	1018mbar
Test date :	June 09, 2017
Tested By :	Evans He

#### Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	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.															
		<table><tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>QP</th><th>Average</th></tr><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></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
		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>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.</p>
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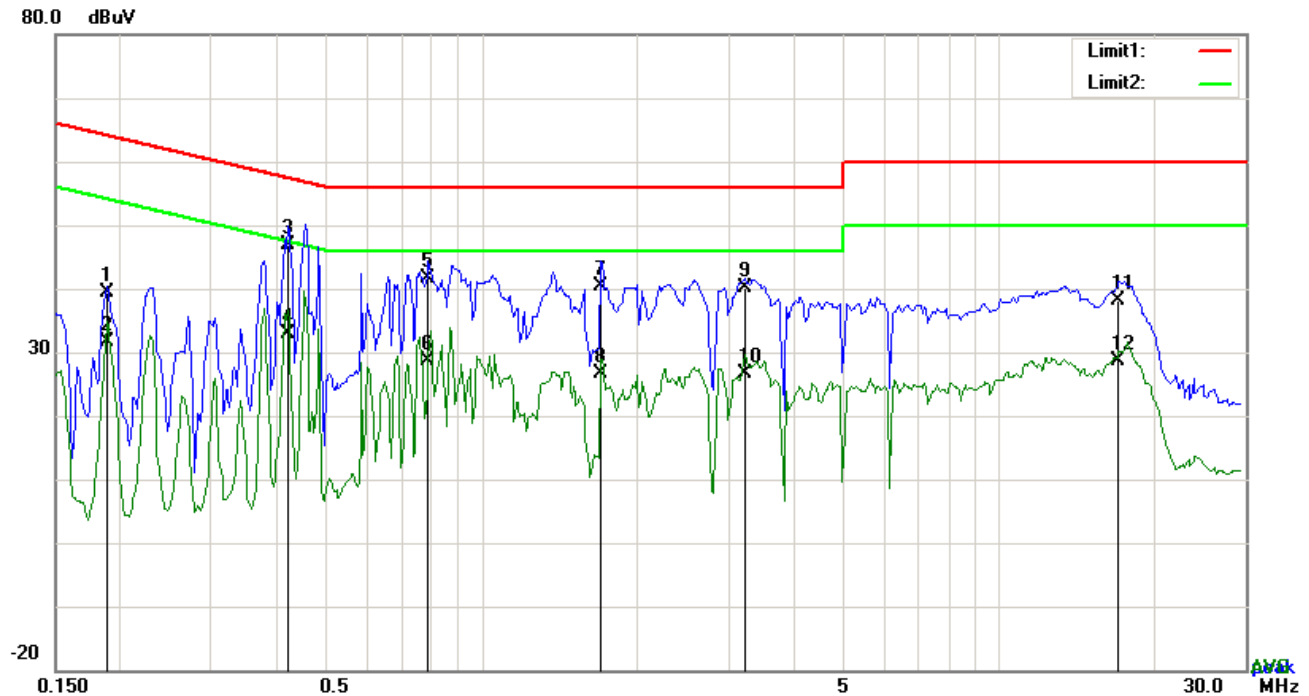
Procedure	<ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.</li> </ol>
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	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 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. 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. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
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**

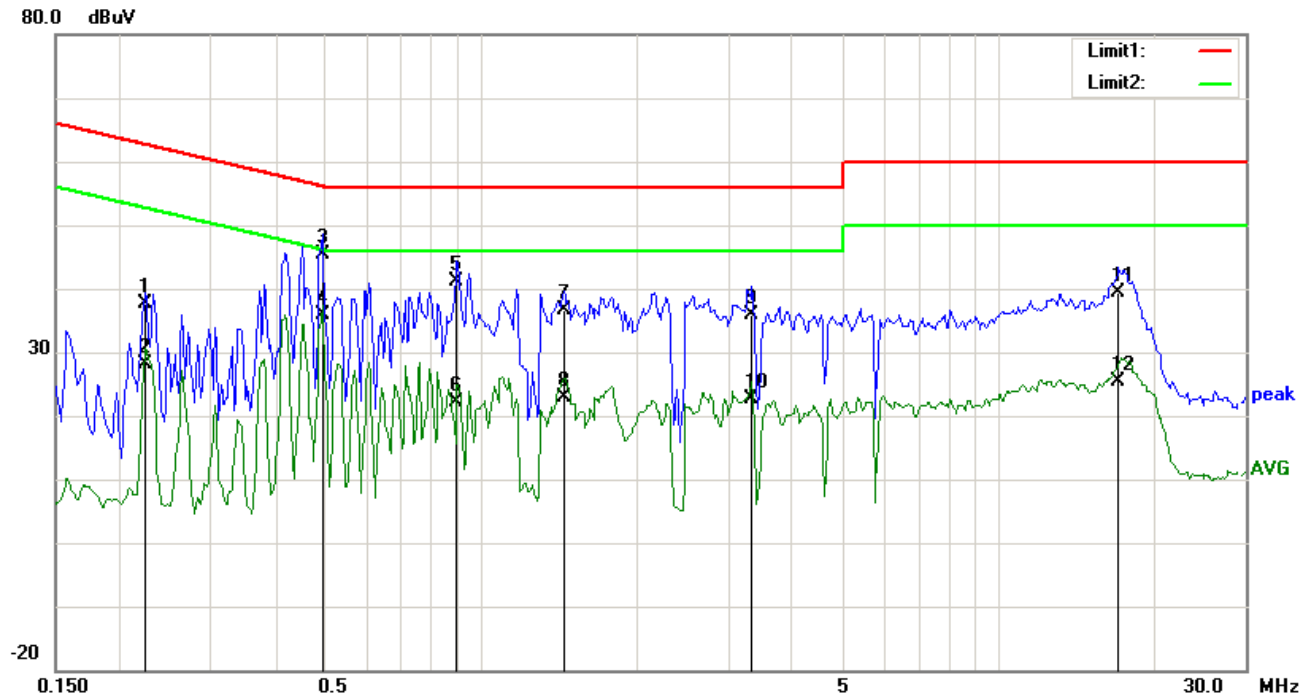


**Test Data**

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1890	29.36	QP	10.03	39.39	64.08	-24.69
2	L1	0.1890	21.64	AVG	10.03	31.67	54.08	-22.41
3	L1	0.4230	36.75	QP	10.03	46.78	57.39	-10.61
4	L1	0.4230	22.77	AVG	10.03	32.80	47.39	-14.59
5	L1	0.7896	31.62	QP	10.03	41.65	56.00	-14.35
6	L1	0.7896	18.59	AVG	10.03	28.62	46.00	-17.38
7	L1	1.7061	30.35	QP	10.04	40.39	56.00	-15.61
8	L1	1.7061	16.60	AVG	10.04	26.64	46.00	-19.36
9	L1	3.2262	29.95	QP	10.06	40.01	56.00	-15.99
10	L1	3.2262	16.63	AVG	10.06	26.69	46.00	-19.31
11	L1	17.0790	27.84	QP	10.26	38.10	60.00	-21.90
12	L1	17.0790	18.26	AVG	10.26	28.52	50.00	-21.48

**Test Mode:** USB Mode

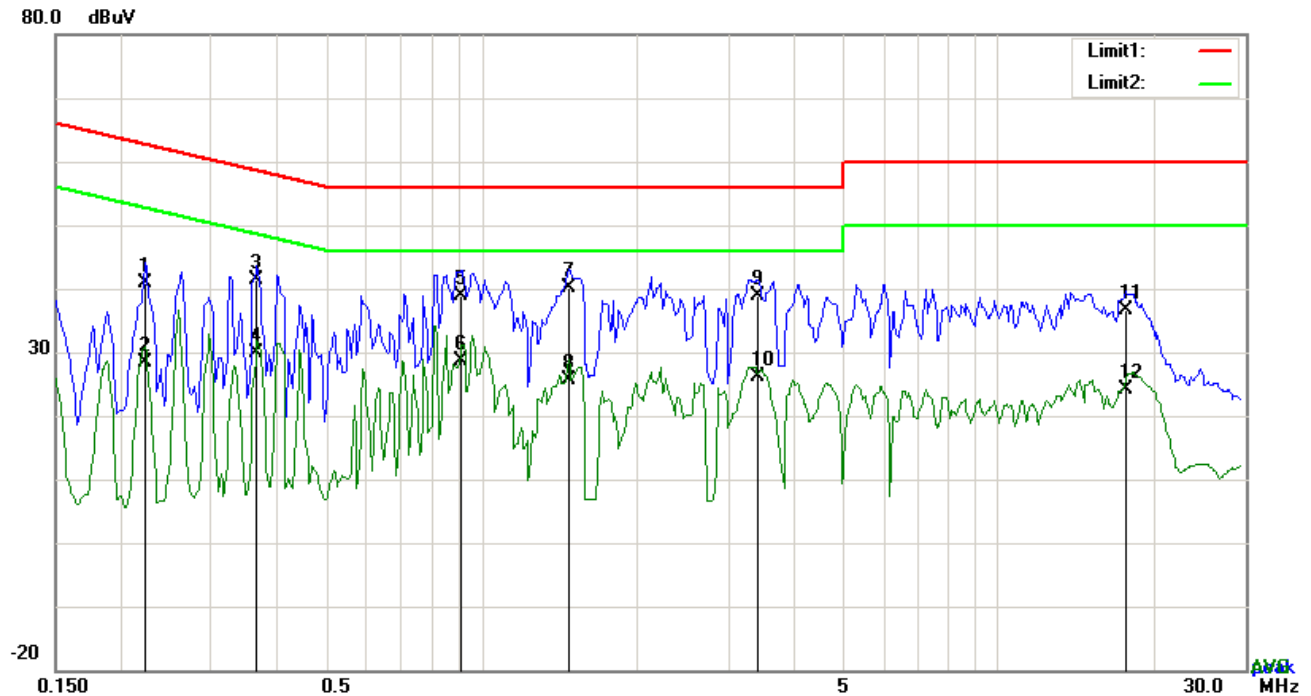


**Test Data**

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2241	27.66	QP	10.02	37.68	62.67	-24.99
2	N	0.2241	18.22	AVG	10.02	28.24	52.67	-24.43
3	N	0.4932	35.32	QP	10.02	45.34	56.11	-10.77
4	N	0.4932	25.77	AVG	10.02	35.79	46.11	-10.32
5	N	0.8988	30.99	QP	10.03	41.02	56.00	-14.98
6	N	0.8988	12.06	AVG	10.03	22.09	46.00	-23.91
7	N	1.4409	26.57	QP	10.03	36.60	56.00	-19.40
8	N	1.4409	12.94	AVG	10.03	22.97	46.00	-23.03
9	N	3.3393	25.94	QP	10.05	35.99	56.00	-20.01
10	N	3.3393	12.46	AVG	10.05	22.51	46.00	-23.49
11	N	17.0361	29.24	QP	10.22	39.46	60.00	-20.54
12	N	17.0361	15.11	AVG	10.22	25.33	50.00	-24.67

**Test Mode :** USB Mode

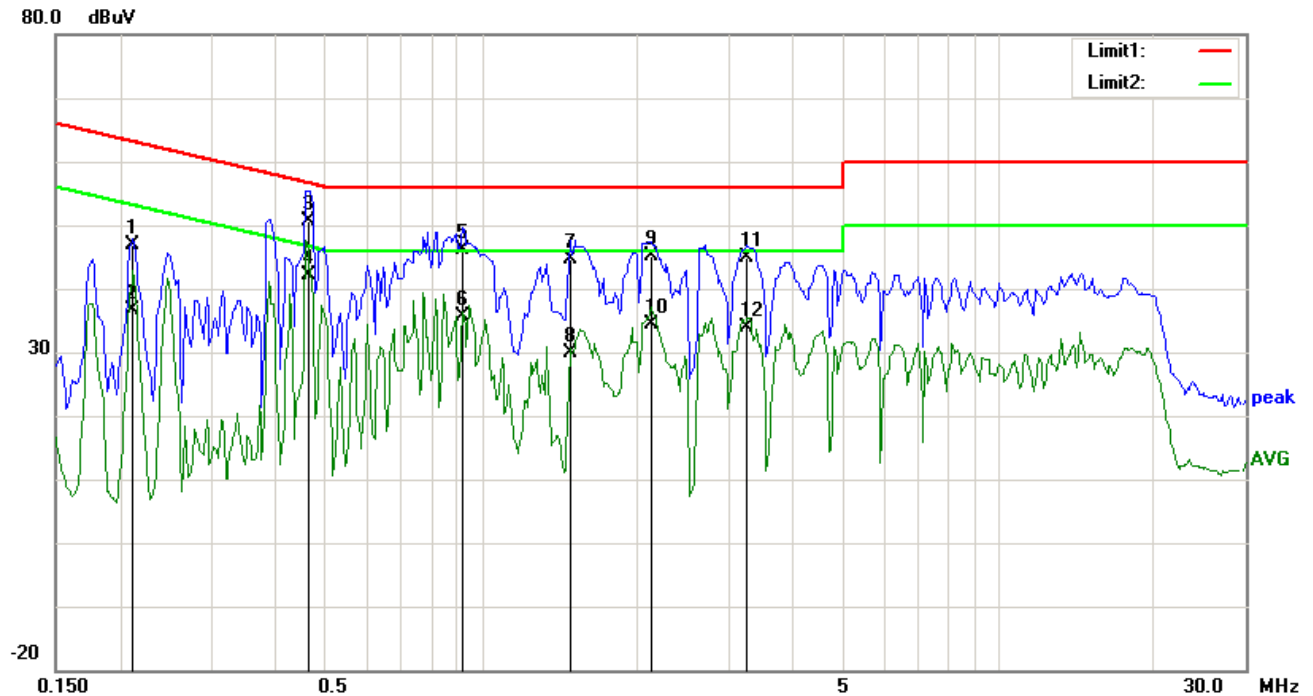


**Test Data**

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

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.2241	30.93	QP	10.03	40.96	62.67	-21.71
2	L1	0.2241	18.33	AVG	10.03	28.36	52.67	-24.31
3	L1	0.3684	31.43	QP	10.03	41.46	58.54	-17.08
4	L1	0.3684	19.88	AVG	10.03	29.91	48.54	-18.63
5	L1	0.9183	28.83	QP	10.03	38.86	56.00	-17.14
6	L1	0.9183	18.55	AVG	10.03	28.58	46.00	-17.42
7	L1	1.4721	29.99	QP	10.04	40.03	56.00	-15.97
8	L1	1.4721	15.50	AVG	10.04	25.54	46.00	-20.46
9	L1	3.4290	28.80	QP	10.06	38.86	56.00	-17.14
10	L1	3.4290	16.00	AVG	10.06	26.06	46.00	-19.94
11	L1	17.6016	26.32	QP	10.26	36.58	60.00	-23.42
12	L1	17.6016	13.84	AVG	10.26	24.10	50.00	-25.90

**Test Mode :** USB Mode



**Test Data**

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

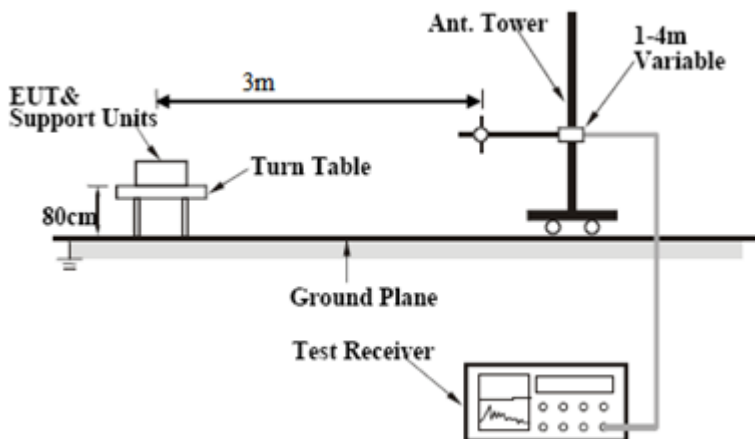
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2124	36.90	QP	10.02	46.92	63.11	-16.19
2	N	0.2124	26.71	AVG	10.02	36.73	53.11	-16.38
3	N	0.4659	40.65	QP	10.02	50.67	56.59	-5.92
4	N	0.4659	32.18	AVG	10.02	42.20	46.59	-4.39
5	N	0.9222	36.13	QP	10.03	46.16	56.00	-9.84
6	N	0.9222	25.71	AVG	10.03	35.74	46.00	-10.26
7	N	1.4799	34.57	QP	10.03	44.60	56.00	-11.40
8	N	1.4799	19.91	AVG	10.03	29.94	46.00	-16.06
9	N	2.1273	35.08	QP	10.04	45.12	56.00	-10.88
10	N	2.1273	24.35	AVG	10.04	34.39	46.00	-11.61
11	N	3.2691	34.75	QP	10.05	44.80	56.00	-11.20
12	N	3.2691	23.94	AVG	10.05	33.99	46.00	-12.01

## 6.2 Radiated Emissions

Temperature	24 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 05, 2017
Tested By :	Evans He

### Requirement(s):

Spec	Item	Requirement	Applicable	
47CFR§15.109(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	<div><input checked="" type="checkbox"/></div>	
		Frequency range (MHz)		Field Strength (µV/m)
		30 – 88		100
		88 – 216		150
		216 - 960		200
		Above 960		500

Test Setup	
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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>
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	<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 Quasi 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

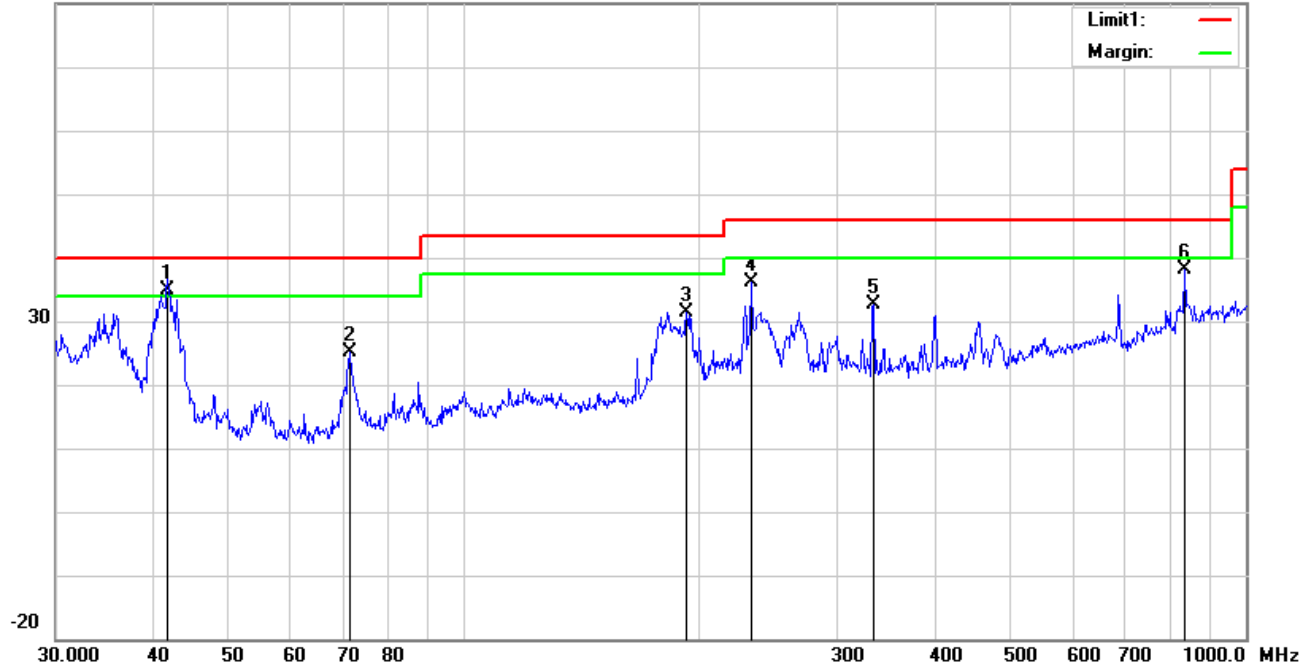
Test Plot ☒ Yes (See below) ☐ N/A



Test Mode : USB Mode

### Below 1GHz

80.0 dBuV/m

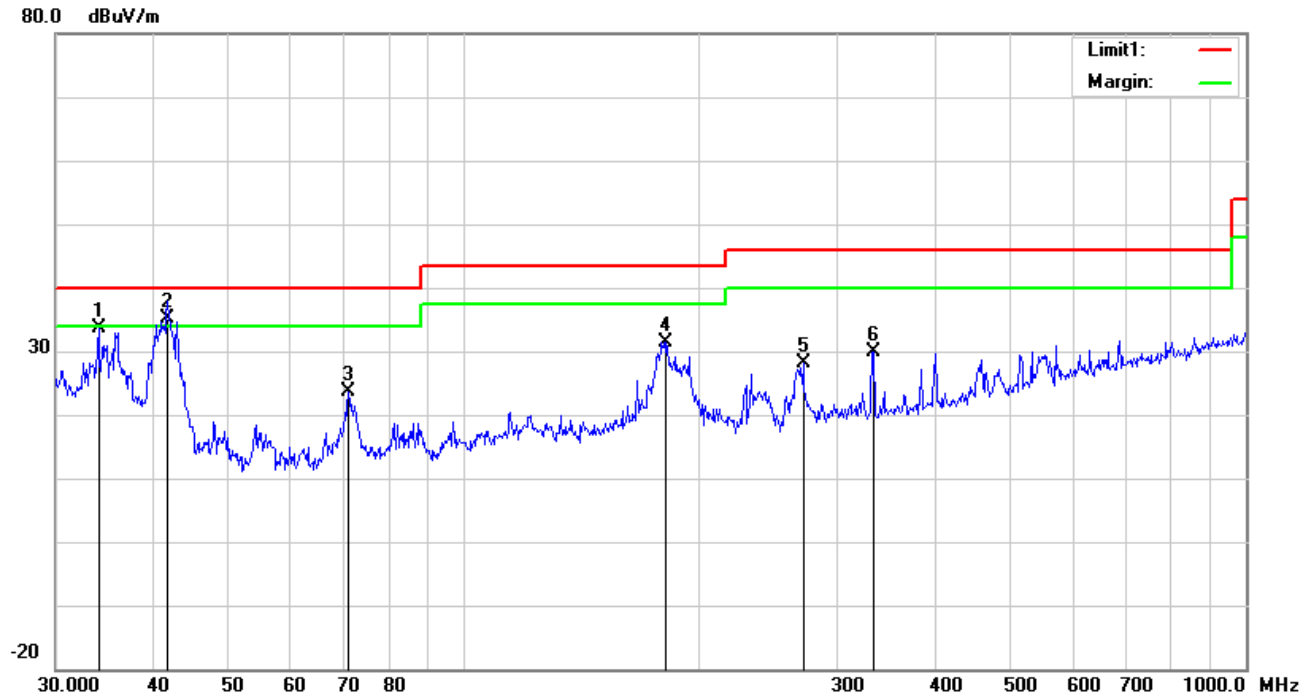


### Test Data

#### Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	H	41.7130	43.53	QP	12.77	22.28	0.78	34.80	40.00	-5.20	100	57
2	H	71.3300	38.85	peak	7.77	22.39	0.97	25.20	40.00	-14.80	100	338
3	H	192.4186	40.48	peak	11.68	22.33	1.54	31.37	43.50	-12.13	100	204
4	H	232.5318	45.17	peak	11.64	22.32	1.64	36.13	46.00	-9.87	100	131
5	H	333.6867	38.60	peak	14.31	22.20	1.96	32.67	46.00	-13.33	100	286
6	H	833.3171	34.44	peak	21.77	21.06	2.90	38.05	46.00	-7.95	100	72

## Below 1GHz



## Test Data

### Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	34.0365	36.99	peak	18.29	22.26	0.73	33.75	40.00	-6.25	100	285
2	V	41.7130	43.83	QP	12.77	22.28	0.78	35.10	40.00	-4.90	100	307
3	V	71.0803	37.20	peak	7.78	22.38	0.98	23.58	40.00	-16.42	100	339
4	V	181.2834	41.15	peak	11.07	22.26	1.38	31.34	43.50	-12.16	100	348
5	V	271.3246	36.37	peak	12.34	22.29	1.74	28.16	46.00	-17.84	200	58
6	V	333.6867	35.86	peak	14.31	22.20	1.96	29.93	46.00	-16.07	100	214

### *Above 1GHz*

Frequency (MHz)	Read_level (dBµV/m)	Azimuth	Height (cm)	Polarity (H/V)	Level (dBµV/m)	Factors (dB)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV)
1198.377	67.89	37	100	V	-17.88	50.01	74	-23.99	PK
2007.709	63.52	155	100	V	-14.4	49.12	74	-24.88	PK
2945.949	66.57	206	100	V	-12.6	53.97	74	-20.03	PK
1059.012	69.65	181	200	H	-18.37	51.28	74	-22.72	PK
1816.035	65.94	69	100	H	-15.45	50.49	74	-23.51	PK
2346.389	66.97	332	100	H	-13.91	53.06	74	-20.94	PK

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

*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	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
ISN	ISN T800	34373	09/24/2016	09/23/2017	<input type="checkbox"/>
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>

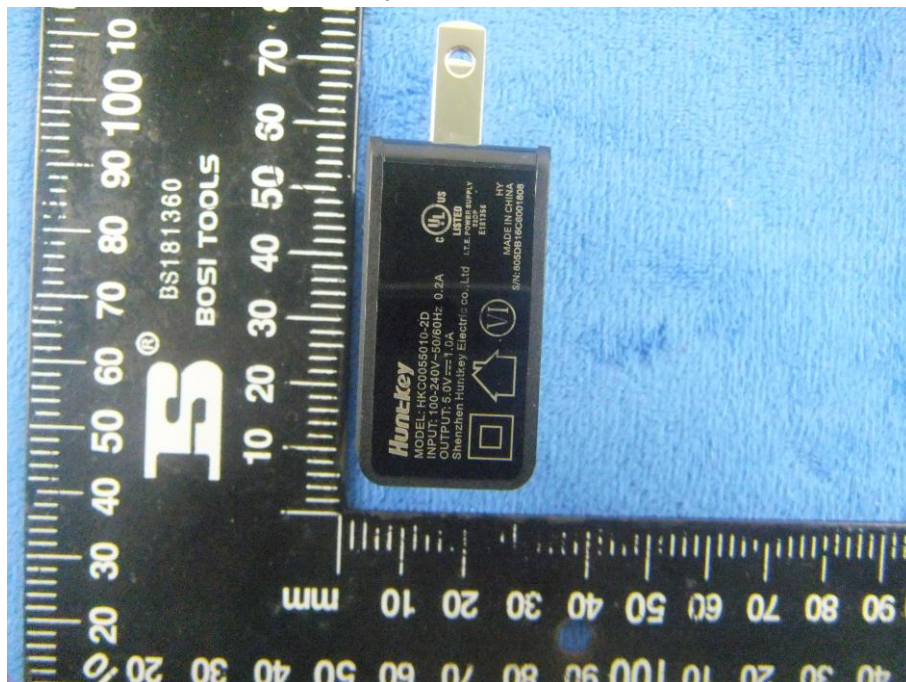
## Annex B. EUT And Test Setup Photographs

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

Whole Package View



Adapter - Label View





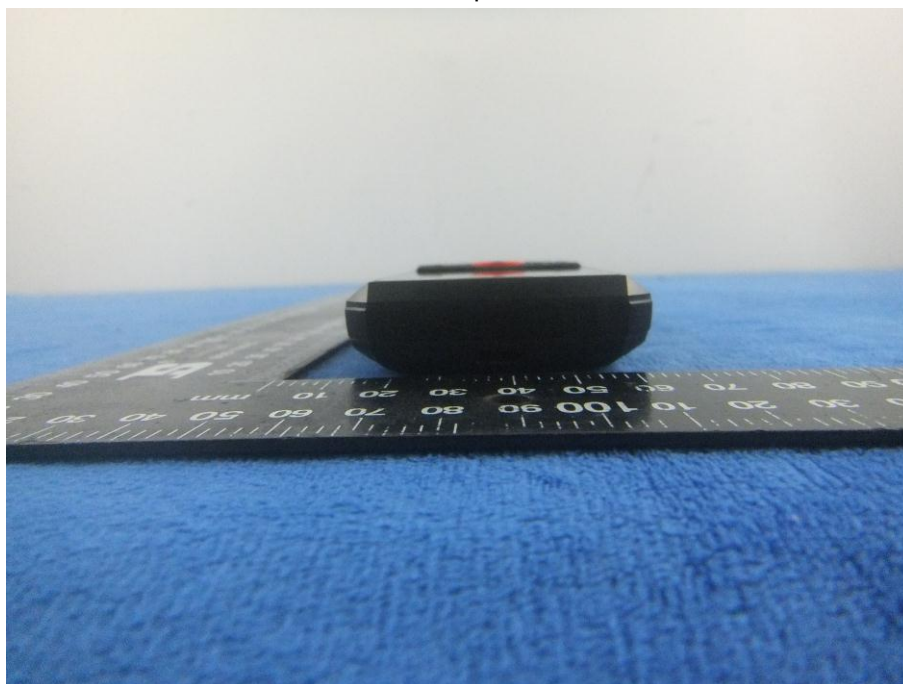
EUT - Front View



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 1



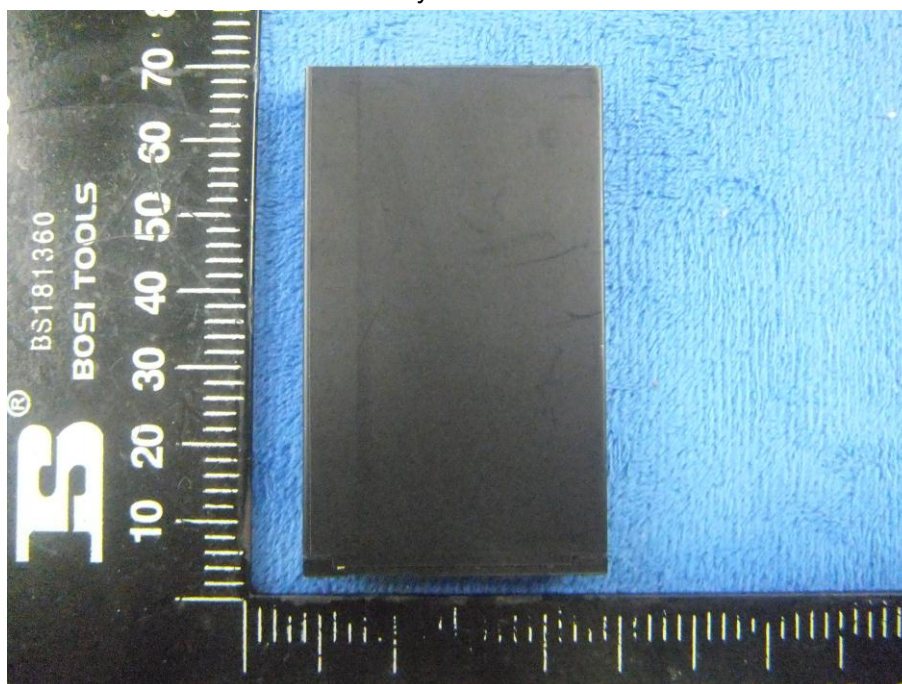
Cover Off - Top View 2



Battery - Front View

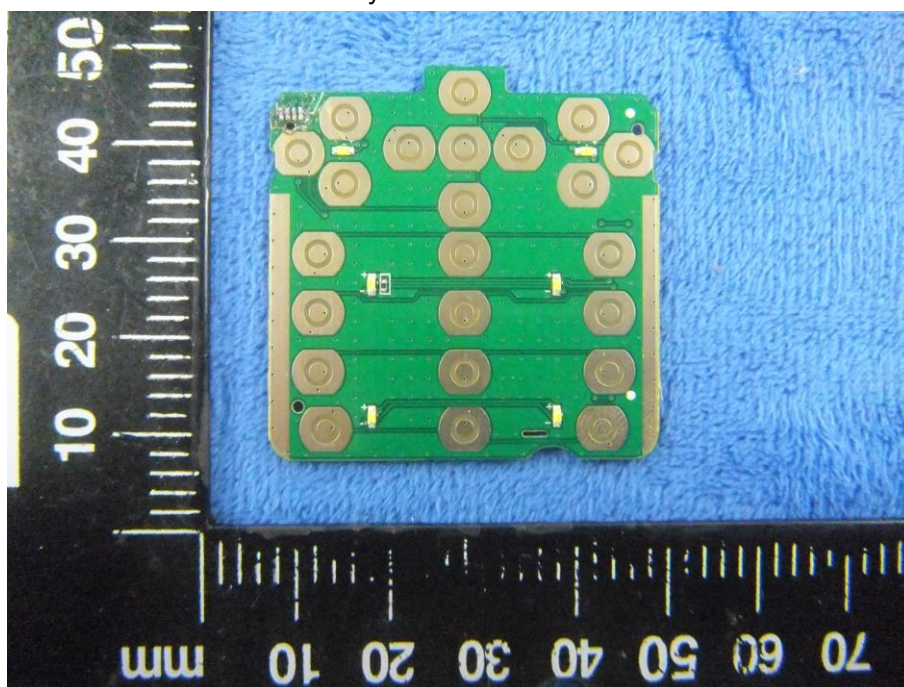


Battery - Rear View

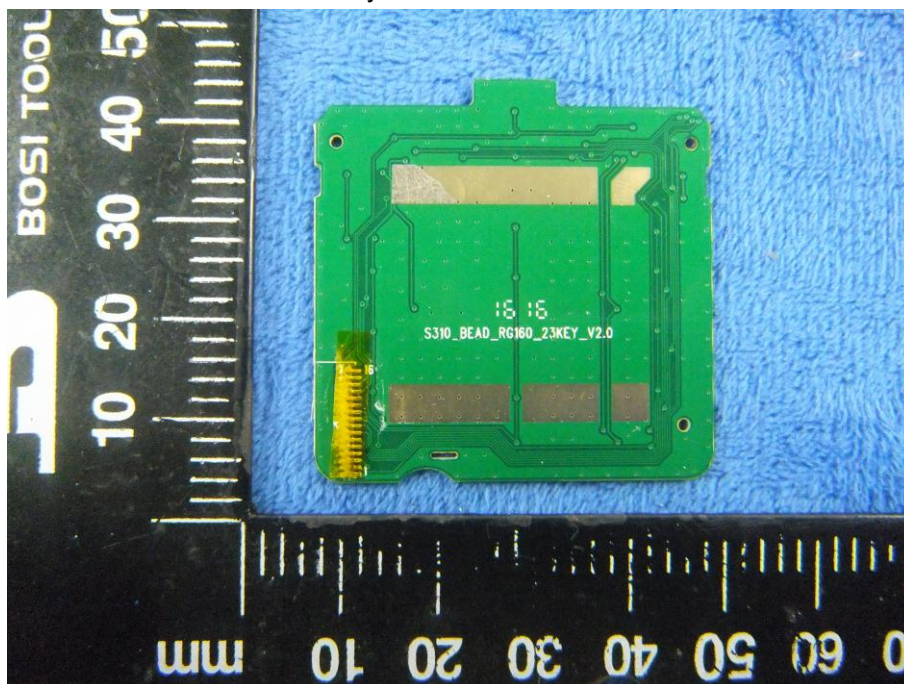




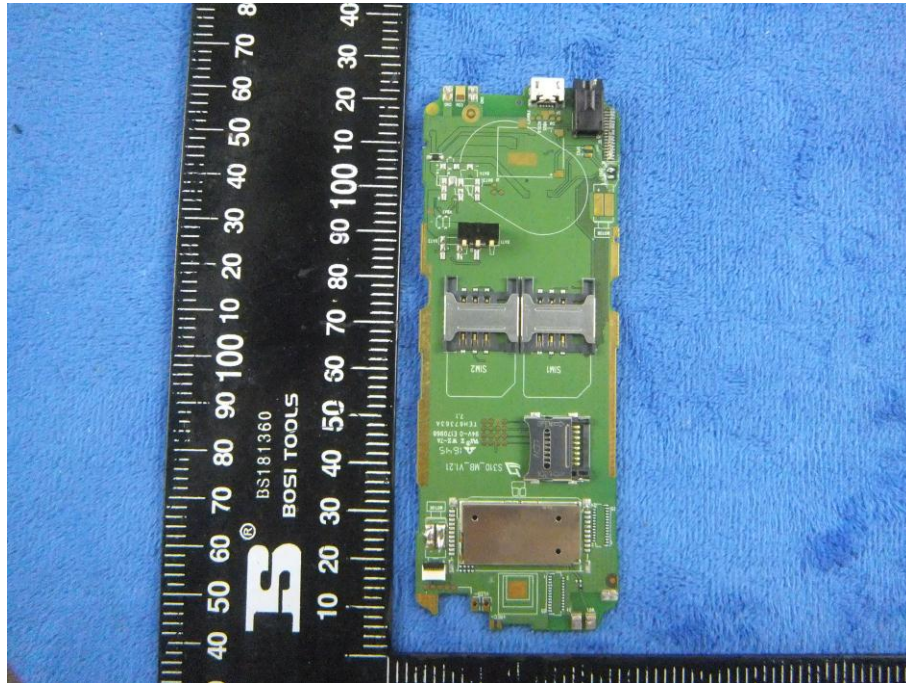
Keyboard-Front View



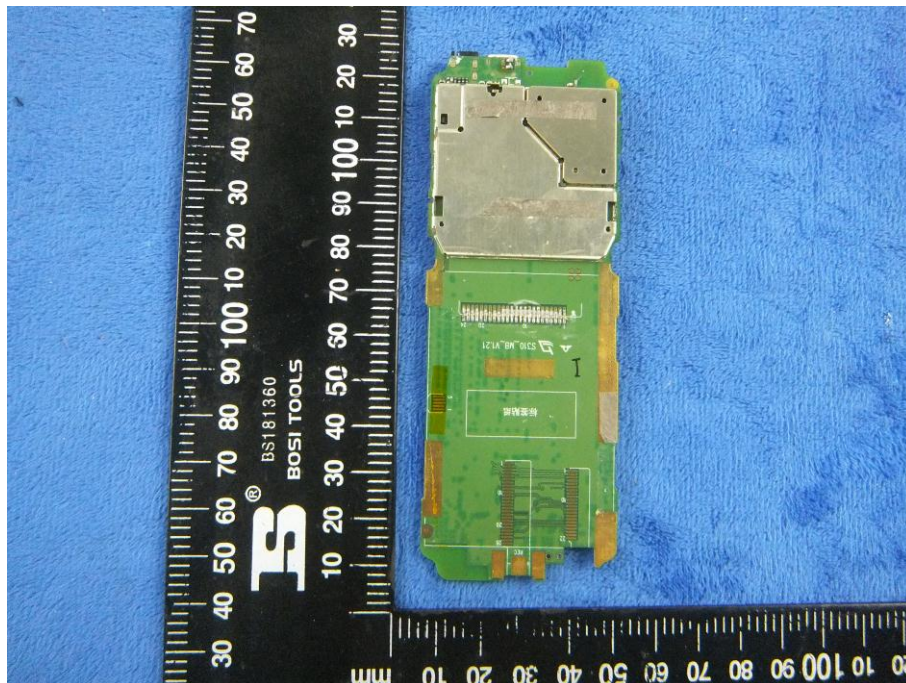
Keyboard- Rear View



Mainboard with Shielding – Front View

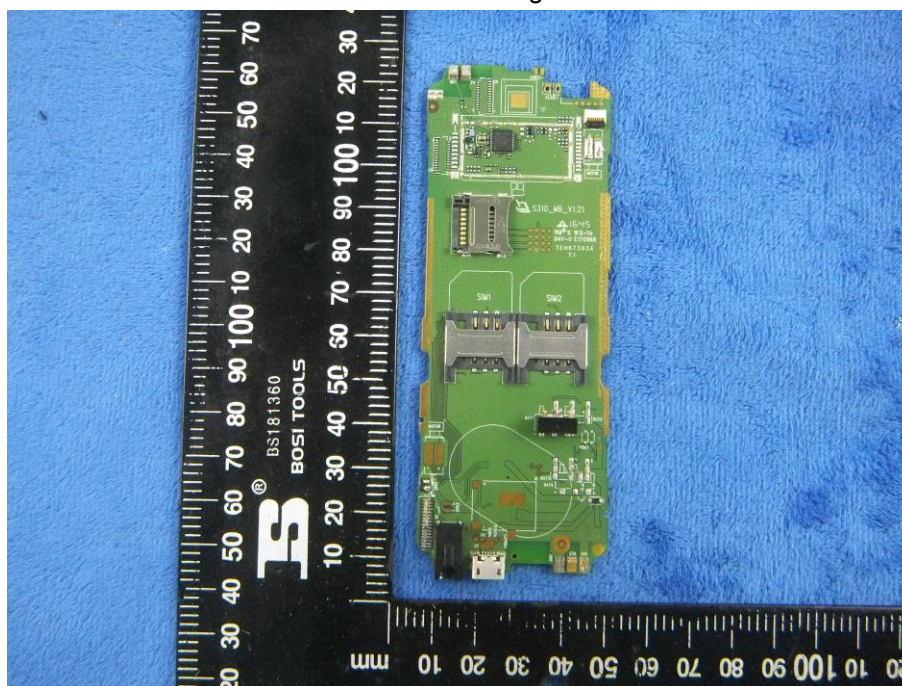


Mainboard with Shielding – Rear View

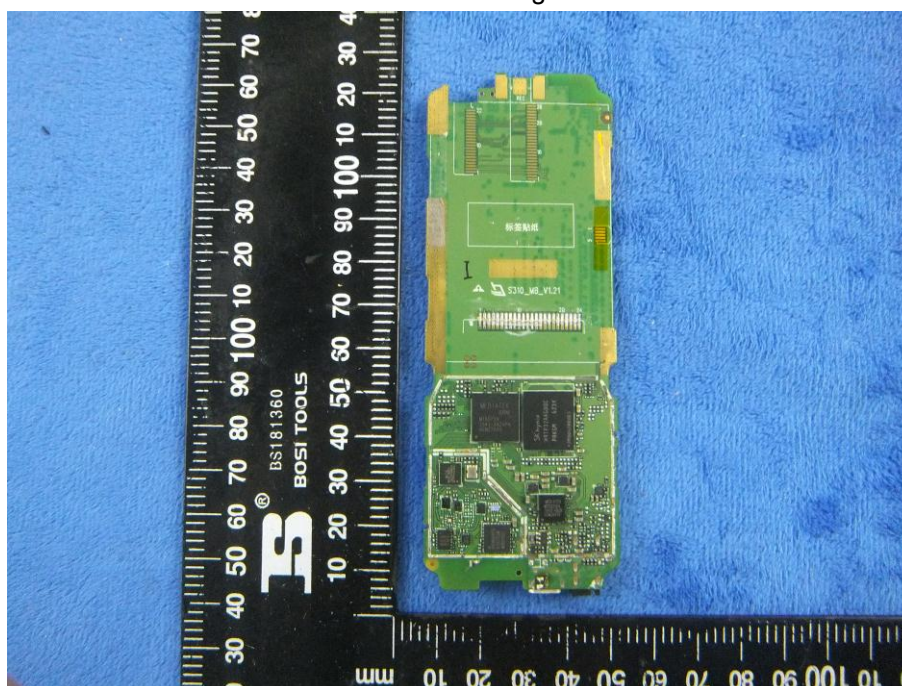




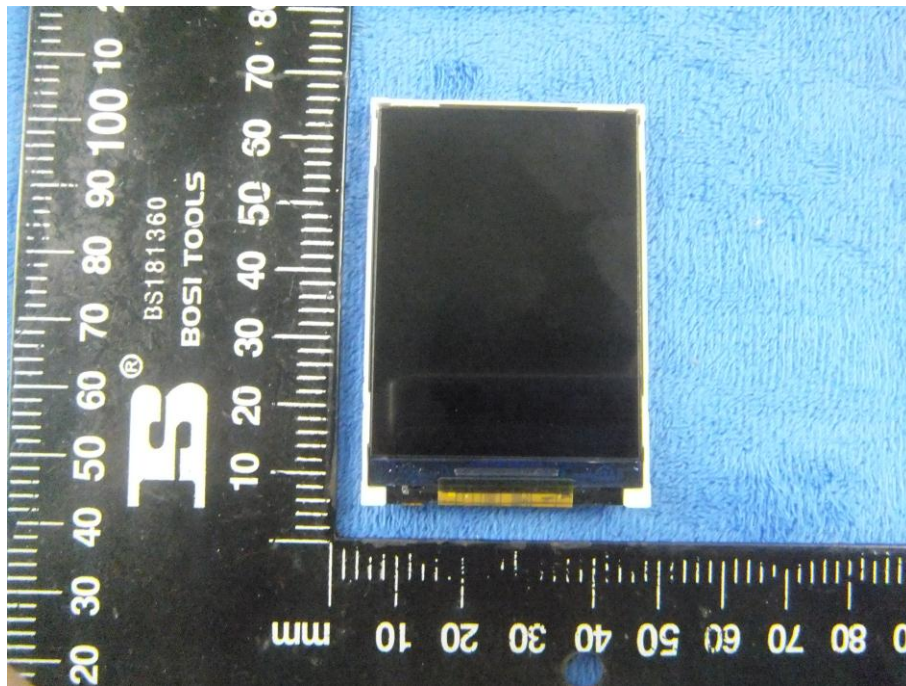
Mainboard without Shielding – Front View



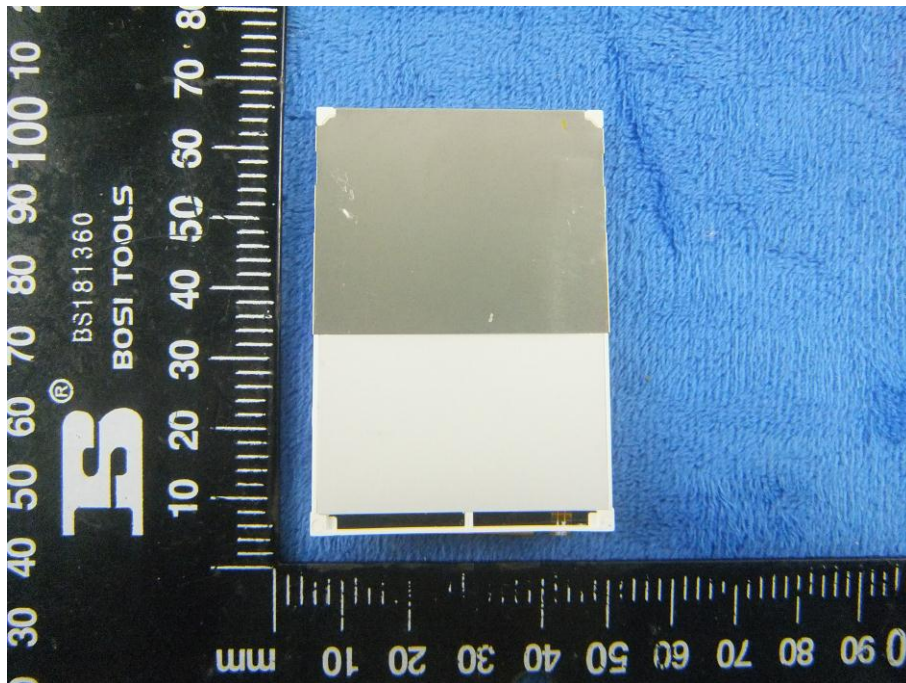
Mainboard without Shielding – Rear View



LCD – Front View



LCD – Rear View





GSM/PCS/UMTS-FDD Antenna View



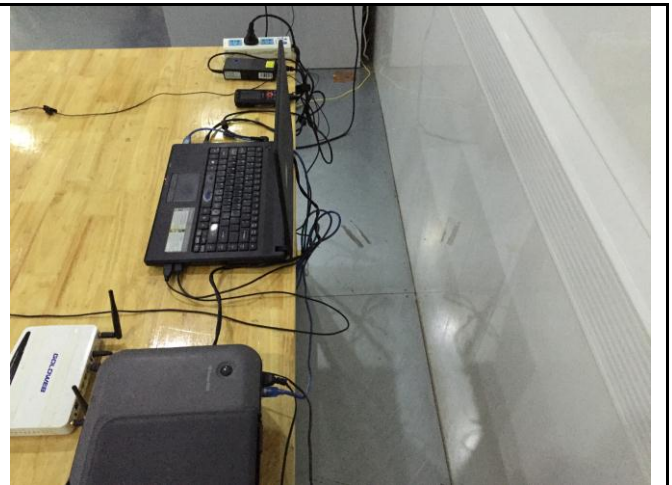
WIFI/BT/BLE/GPS - Antenna View



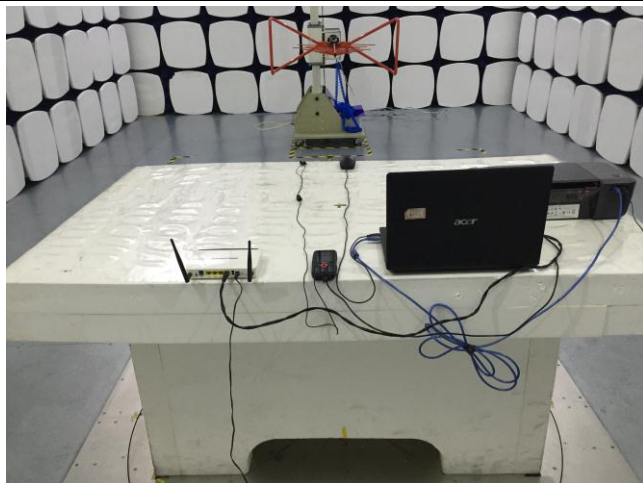
**Annex B.iii. Photograph: Test Setup Photo**



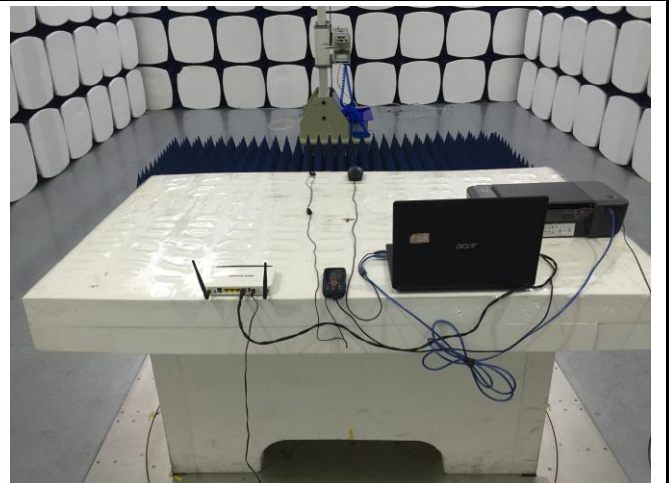
Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View



Radiated Emissions Test Setup Below 1GHz



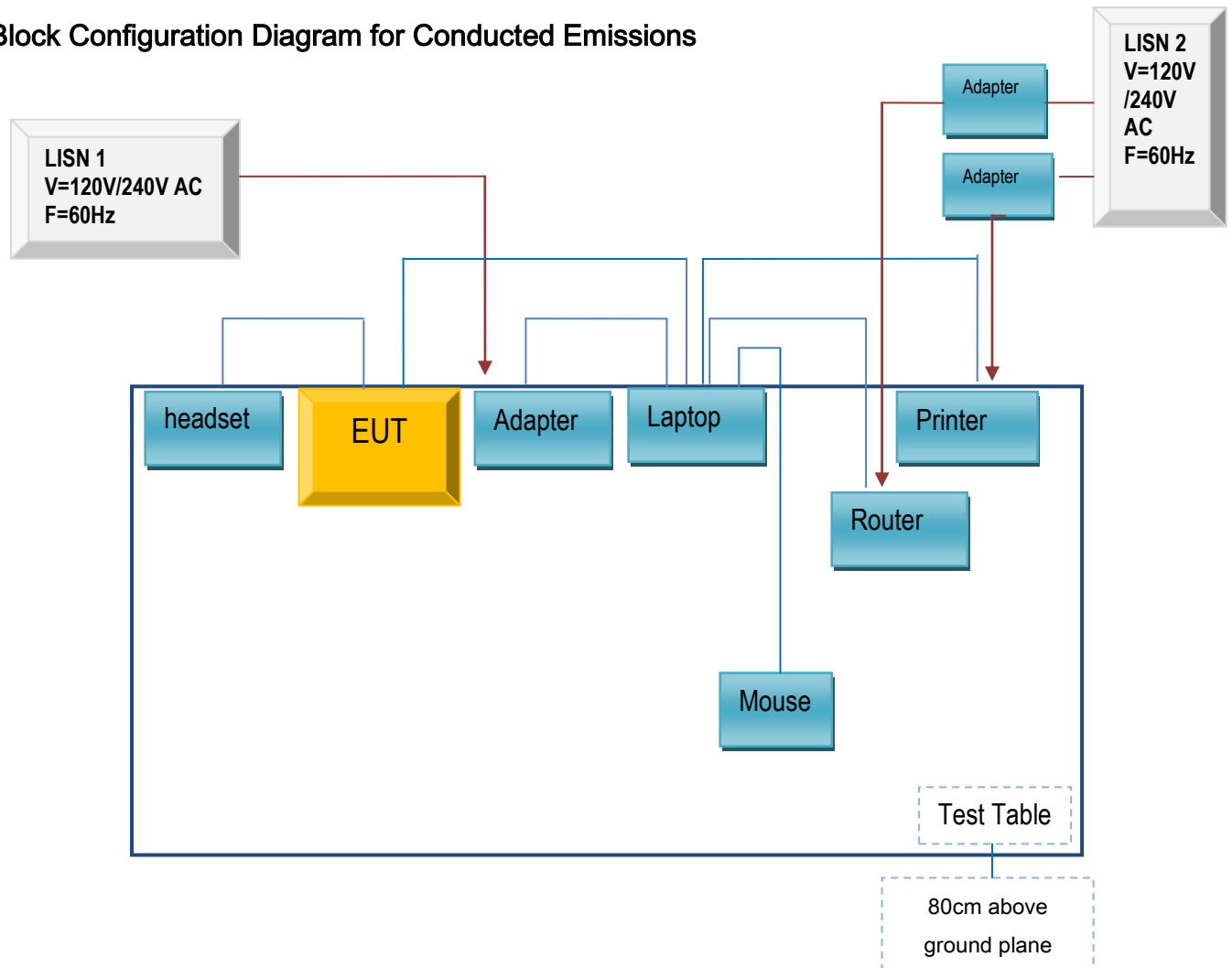
Radiated Emissions Test Setup Above 1GHz



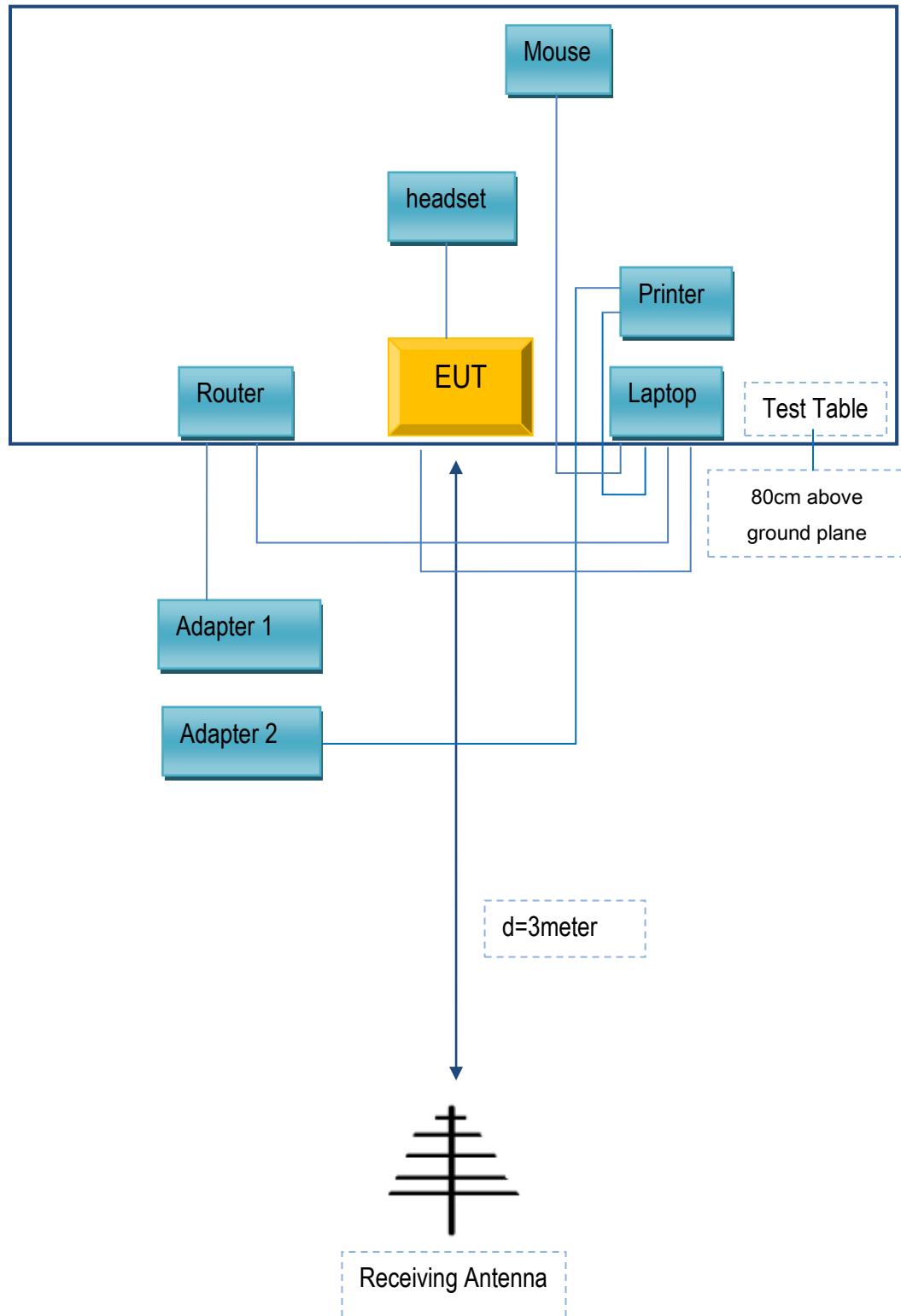
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### 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
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203
MFOURTEL MEXICO S.A. DE C.V.	Earphone	M4 SS4453-R	N/A
Power Idea Technology (Shenzhen) Co., Ltd.	headset	RG160	N/A

### **Supporting Cable:**

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
USB Cable	Un-shielding	No	2m	CBA3000AH0C1
RJ45 Cable	Un-shielding	No	2m	KX156327541
Router Power cable	Un-shielding	No	2m	13274630Z
Printer Power cable	Un-shielding	No	2m	127581031
Power Cable	Un-shielding	No	0.8m	GT211032

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Earphone Cables	Un-shielding	No	0.5m	N/A
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## Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment

## Annex E. DECLARATION OF SIMILARITY

N/A