

# EMC TEST REPORT



Report No.: 17070084-FCC-E V1

Supersede Report No: N/A

Applicant	Global Regency Ltd.	
Product Name	Tablet PC	
Model No.	QA863	
Serial No.	N/A	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	February 14 to March 09, 2017	
Issue Date	March 16, 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"/>
Evans He	David Huang	
Evans He Test Engineer	David Huang Checked By	
<p>This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only</p>		

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
17070084-FCC-E	NONE	Original	March 10, 2017
17070084-FCC-E V1	V1	Adjust photos	March 16, 2017

## 2. Customer information

Applicant Name	Global Regency Ltd.
Applicant Add	20F,Tower A,Wenjin Plaza,Tianbei Rd1,Luohu Dist.,Shenzhen,China
Manufacturer	Global Regency Ltd.
Manufacturer Add	20F,Tower A,Wenjin Plaza,Tianbei Rd1,Luohu Dist.,Shenzhen,China

## 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 of Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.Icp-03A1)

#### 4. Equipment under Test (EUT) Information

Description of EUT:	Tablet PC
Main Model:	QA863
Serial Model:	N/A
Antenna Gain:	Bluetooth/WIFI/BLE: 2.67dBi
Antenna Type:	PIFA antenna
Input Power:	<p>Adapter: Model: JML-0500200-LW</p> <p>Input: AC100-240V~50/60Hz,MAX 0.3A</p> <p>Output: DC 5.0V-2.0A</p>
	<p>Battery: Spec: 3.8V,5300mAh,20.14Wh</p>
Equipment Category :	JBC
Type of Modulation:	<p>802.11b/g/n: DSSS, OFDM</p> <p>Bluetooth: GFSK, π /4DQPSK, 8DPSK</p> <p>BLE: GFSK</p>
RF Operating Frequency (ies):	<p>WIFI: 802.11b/g/n(20M): 2412-2462 MHz</p> <p>WIFI: 802.11n(40M): 2422-2452 MHz</p> <p>Bluetooth&amp; BLE: 2402-2480 MHz</p>
Number of Channels:	<p>WIFI :802.11b/g/n(20M): 11CH</p> <p>WIFI :802.11n(40M): 7CH</p> <p>Bluetooth: 79CH</p> <p>BLE: 40CH</p>
Port:	USB Port, Earphone Port
Trade Name :	Smart Communications
FCC ID:	2AK5R-QA863

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Date EUT received: February 13, 2017

Test Date(s): February 14 to March 09, 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

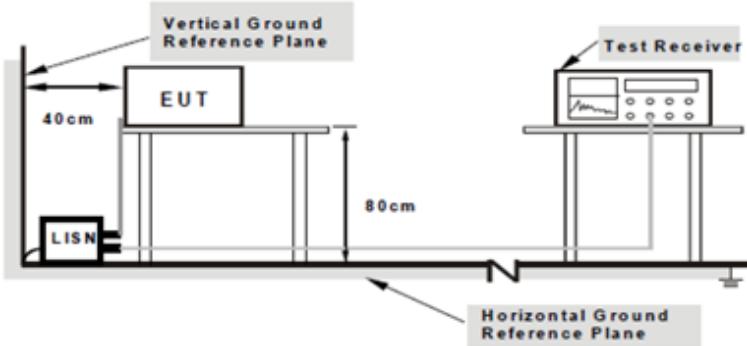
Emissions		
Test Item	Description	Uncertainty
AC Power Line Conducted Emissions and Radiated Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1015mbar
Test date :	February 28, 2016
Tested By :	Evans 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 [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><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

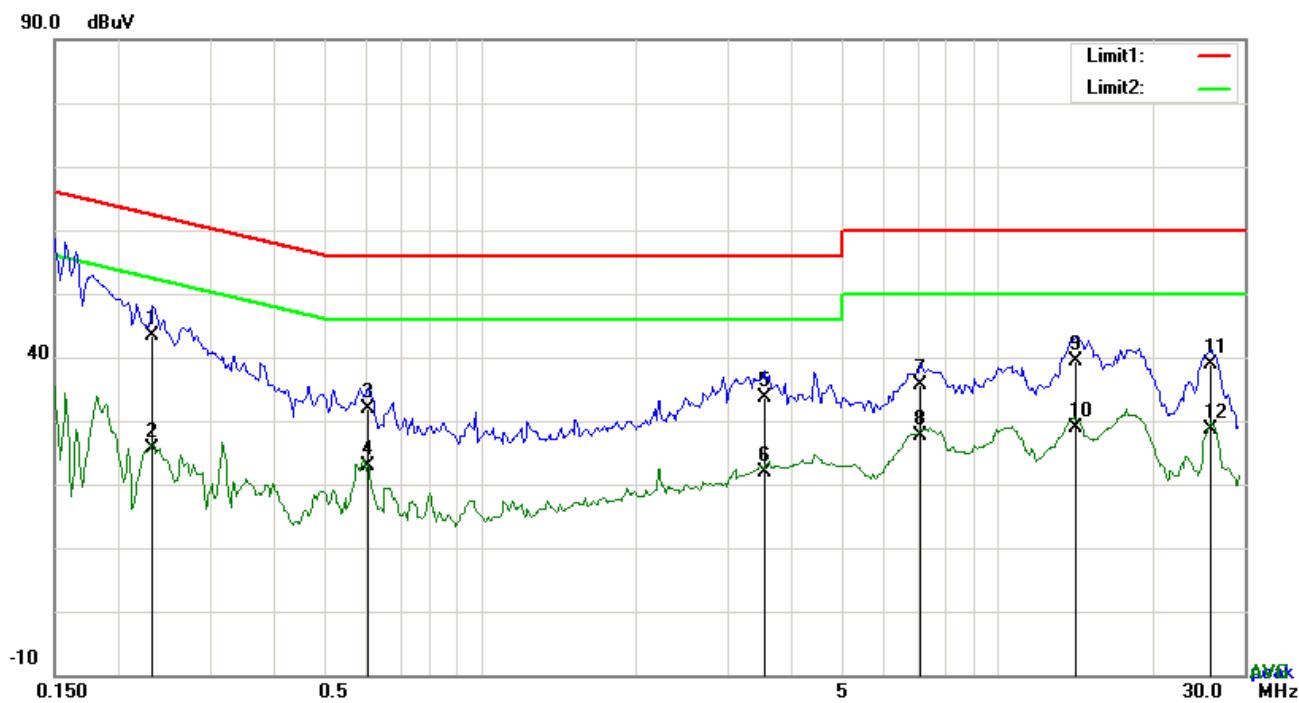
**Test Mode 1 : Charging and Traffic Operating MP4 Mode**

**Test Mode 2 : USB Mode**

**Test Mode 3 : Charging and Traffic Operating Camera Mode**

Note: All modes were investigated. The results below show only the worst cases (USB mode).

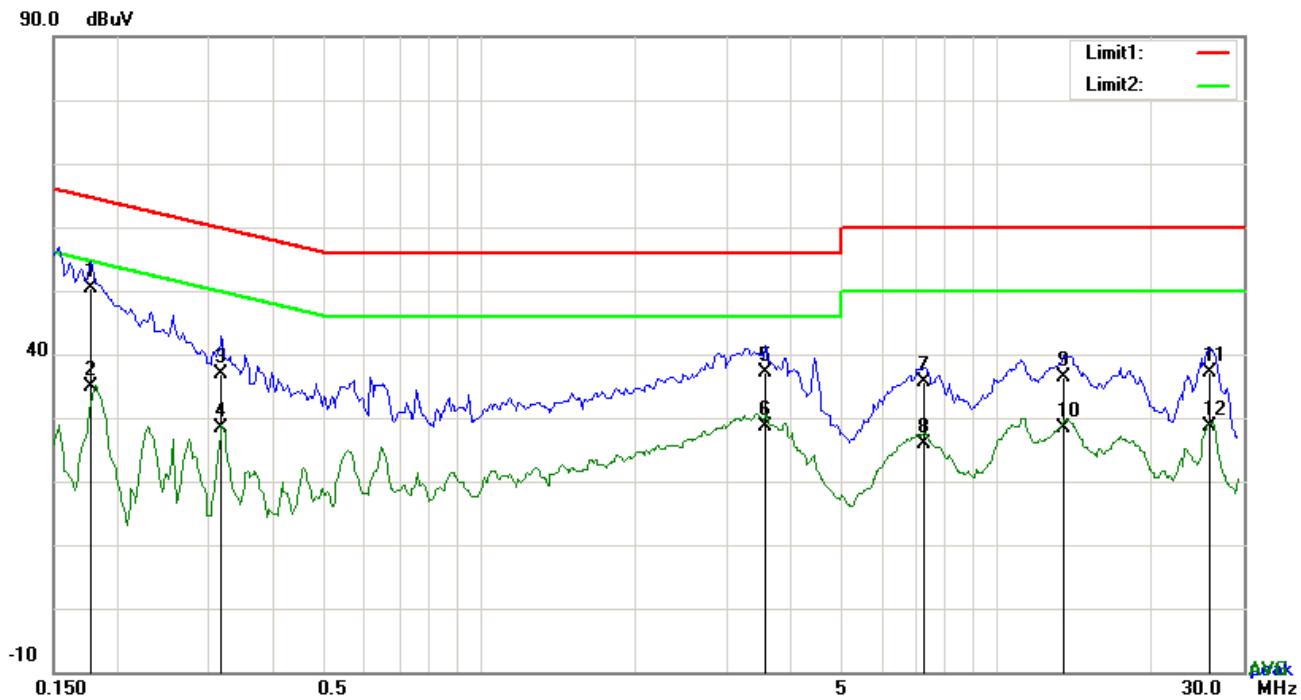
**Test Mode 2 : USB Mode**



**Test Data**

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

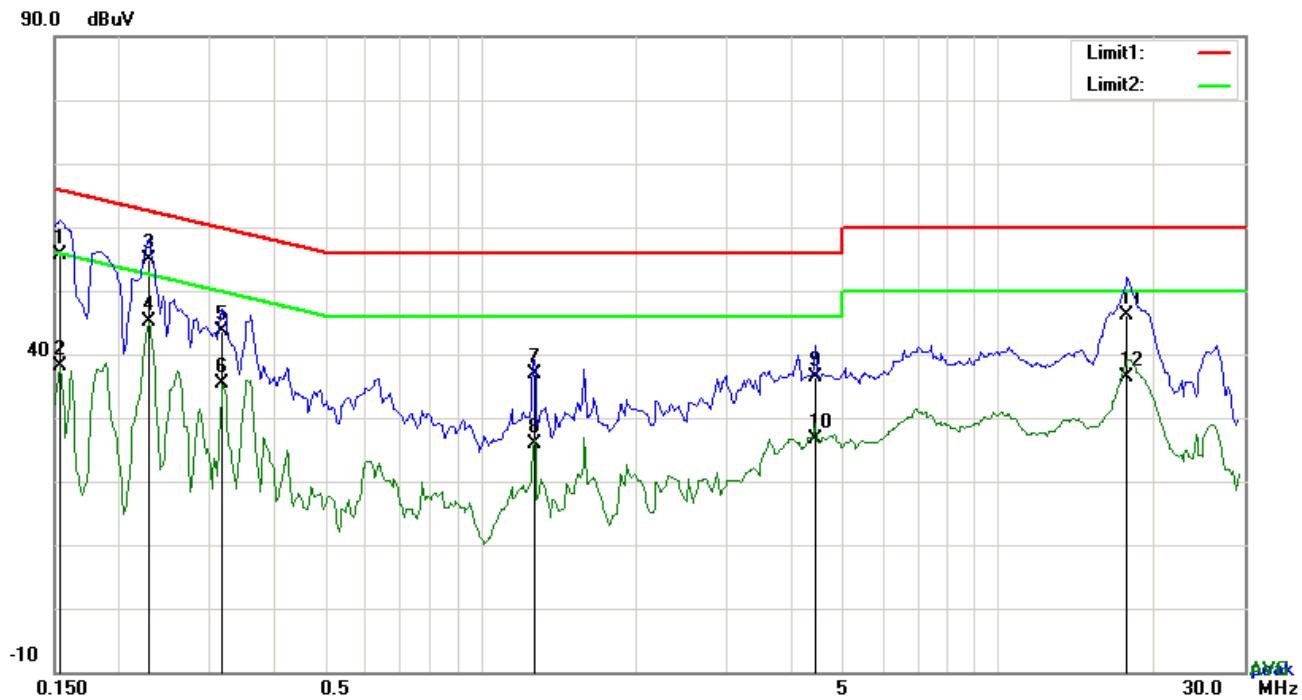
No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.2319	33.23	QP	10.03	43.26	62.38	-19.12
2	L1	0.2319	15.59	AVG	10.03	25.62	52.38	-26.76
3	L1	0.6063	21.79	QP	10.03	31.82	56.00	-24.18
4	L1	0.6063	12.94	AVG	10.03	22.97	46.00	-23.03
5	L1	3.5343	23.56	QP	10.06	33.62	56.00	-22.38
6	L1	3.5343	11.73	AVG	10.06	21.79	46.00	-24.21
7	L1	7.0950	25.47	QP	10.11	35.58	60.00	-24.42
8	L1	7.0950	17.58	AVG	10.11	27.69	50.00	-22.31
9	L1	14.1891	29.14	QP	10.21	39.35	60.00	-20.65
10	L1	14.1891	18.67	AVG	10.21	28.88	50.00	-21.12
11	L1	25.7643	28.35	QP	10.41	38.76	60.00	-21.24
12	L1	25.7643	18.27	AVG	10.41	28.68	50.00	-21.32

**Test Mode 2: USB Mode**

**Test Data**

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1773	40.39	QP	10.02	50.41	64.61	-14.20
2	N	0.1773	24.87	AVG	10.02	34.89	54.61	-19.72
3	N	0.3177	26.77	QP	10.02	36.79	59.77	-22.98
4	N	0.3177	18.28	AVG	10.02	28.30	49.77	-21.47
5	N	3.5733	26.98	QP	10.06	37.04	56.00	-18.96
6	N	3.5733	18.51	AVG	10.06	28.57	46.00	-17.43
7	N	7.2276	25.43	QP	10.10	35.53	60.00	-24.47
8	N	7.2276	15.87	AVG	10.10	25.97	50.00	-24.03
9	N	13.4520	26.12	QP	10.18	36.30	60.00	-23.70
10	N	13.4520	18.10	AVG	10.18	28.28	50.00	-21.72
11	N	25.7643	26.82	QP	10.35	37.17	60.00	-22.83
12	N	25.7643	18.18	AVG	10.35	28.53	50.00	-21.47

**Test Mode 2: USB Mode**

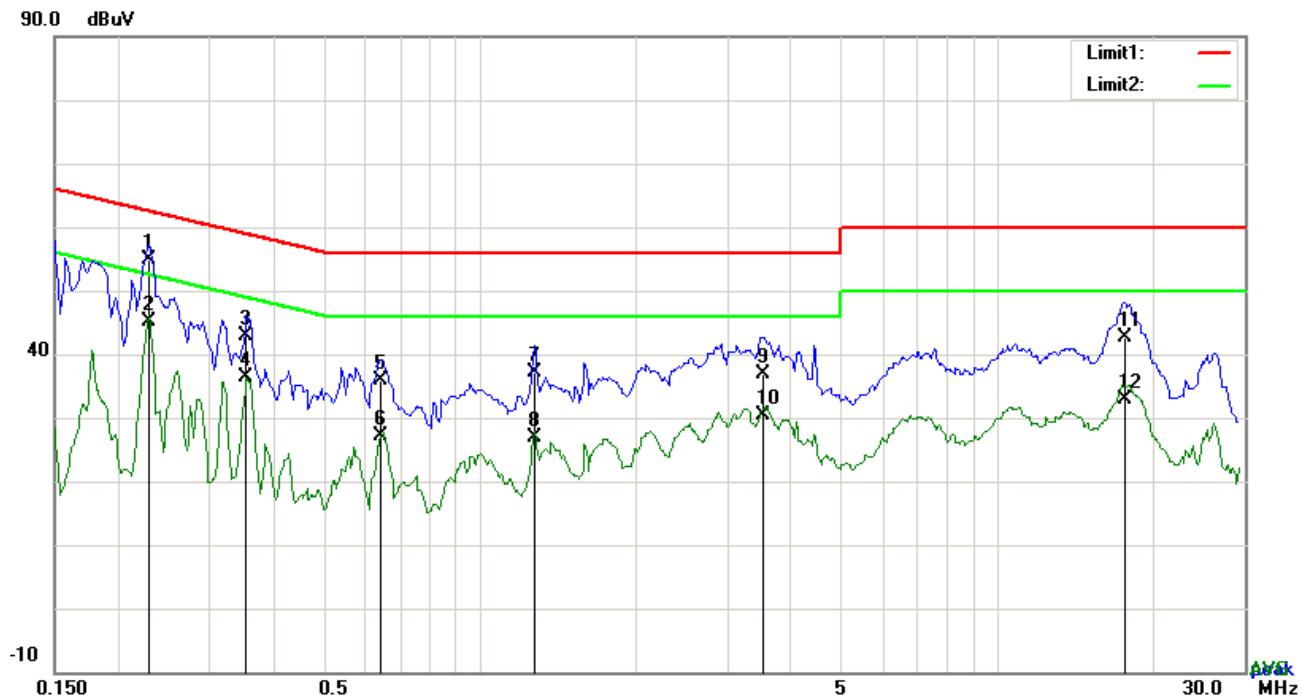


**Test Data**

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.1540	45.58	QP	10.03	55.61	65.78	-10.17
2	L1	0.1540	28.05	AVG	10.03	38.08	55.78	-17.70
3	L1	0.2280	44.75	QP	10.03	54.78	62.52	-7.74
4	L1	0.2280	35.06	AVG	10.03	45.09	52.52	-7.43
5	L1	0.3177	33.51	QP	10.03	43.54	59.77	-16.23
6	L1	0.3177	25.26	AVG	10.03	35.29	49.77	-14.48
7	L1	1.2732	26.78	QP	10.03	36.81	56.00	-19.19
8	L1	1.2732	15.92	AVG	10.03	25.95	46.00	-20.05
9	L1	4.4430	26.26	QP	10.07	36.33	56.00	-19.67
10	L1	4.4430	16.48	AVG	10.07	26.55	46.00	-19.45
11	L1	17.8200	35.85	QP	10.27	46.12	60.00	-13.88
12	L1	17.8200	26.23	AVG	10.27	36.50	50.00	-13.50

**Test Mode 2: USB Mode**



**Test Data**

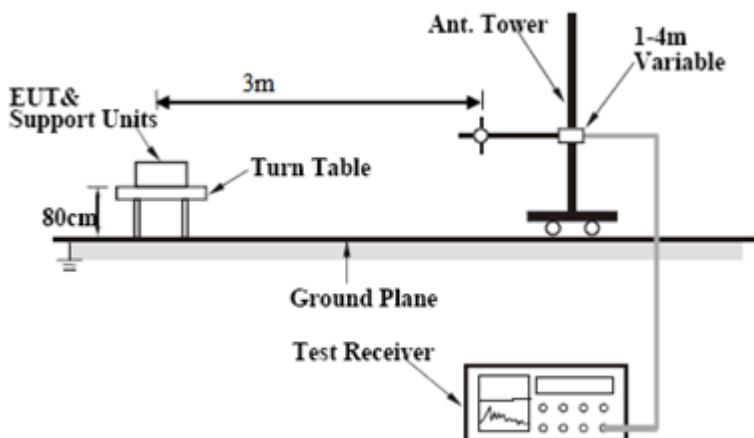
Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.2280	44.93	QP	10.02	54.95	62.52	-7.57
2	N	0.2280	35.13	AVG	10.02	45.15	52.52	-7.37
3	N	0.3528	32.93	QP	10.02	42.95	58.90	-15.95
4	N	0.3528	26.28	AVG	10.02	36.30	48.90	-12.60
5	N	0.6414	25.94	QP	10.02	35.96	56.00	-20.04
6	N	0.6414	17.16	AVG	10.02	27.18	46.00	-18.82
7	N	1.2693	27.04	QP	10.03	37.07	56.00	-18.93
8	N	1.2693	16.97	AVG	10.03	27.00	46.00	-19.00
9	N	3.5148	26.94	QP	10.06	37.00	56.00	-19.00
10	N	3.5148	20.24	AVG	10.06	30.30	46.00	-15.70
11	N	17.5977	32.49	QP	10.23	42.72	60.00	-17.28
12	N	17.5977	22.69	AVG	10.23	32.92	50.00	-17.08

## 6.2 Radiated Emissions

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1015mbar
Test date :	February 28, 2016
Tested By :	Evans He

### 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 1 : Charging and Traffic Operating MP4 Mode**

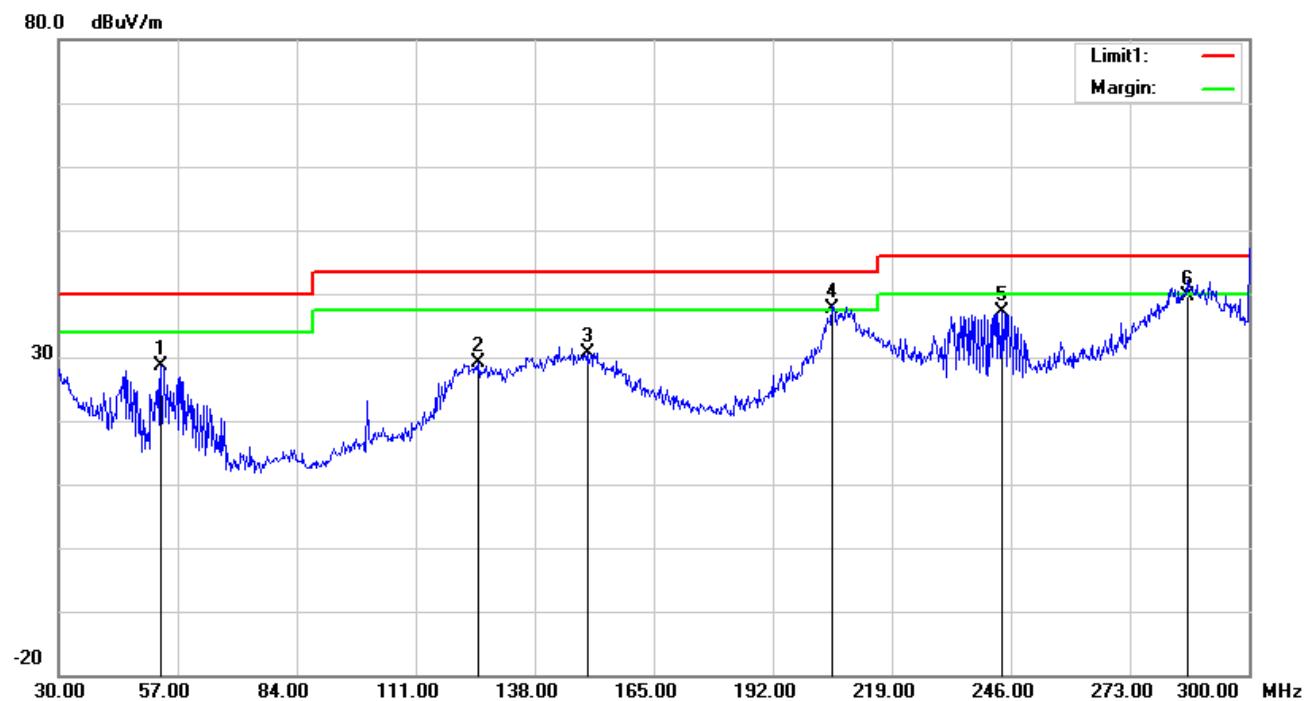
**Test Mode 2 : USB Mode**

**Test Mode 3 : Charging and Traffic Operating Camera Mode**

**Note:** All modes were investigated. The results below show only the worst cases (USB mode).

**Test Mode 2: USB Mode**

**Below 1GHz**

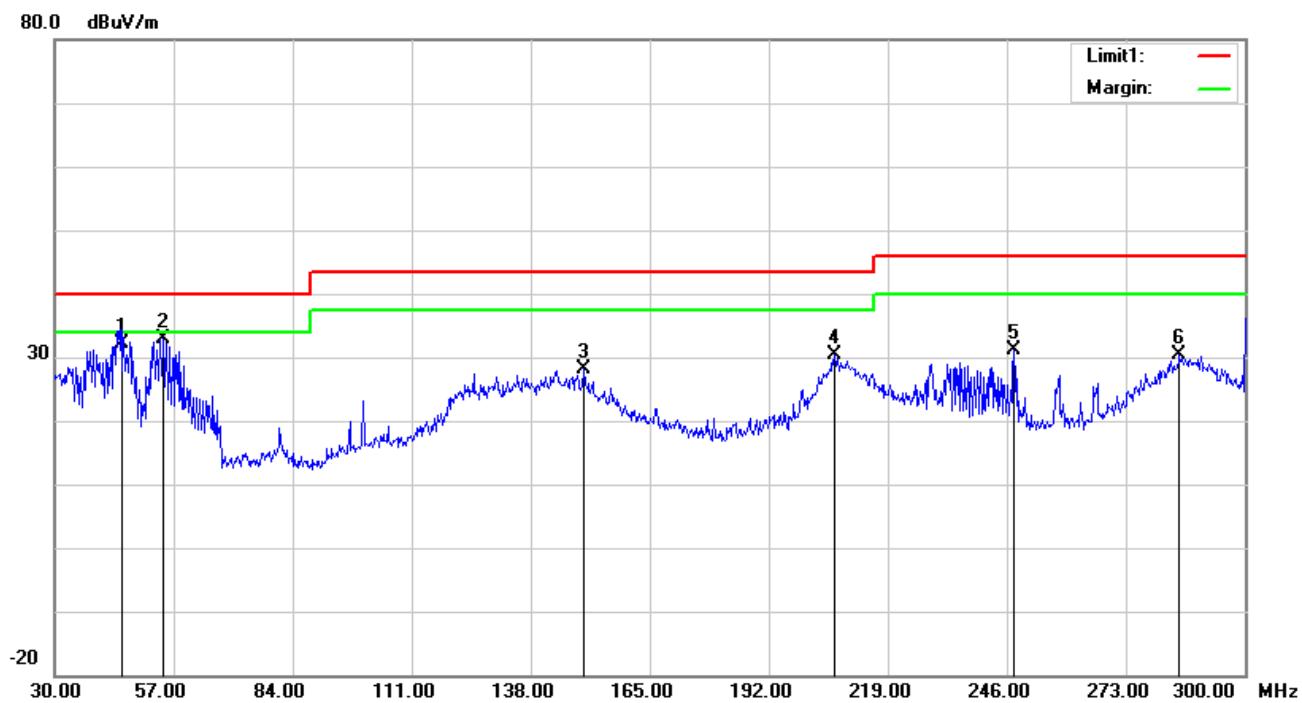


**Test Data**

Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detect or	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degr ee
1	H	53.2200	42.28	peak	8.05	22.39	0.79	28.73	40.00	-11.27	200	70
2	H	125.3100	36.87	peak	13.55	22.37	1.18	29.23	43.50	-14.27	100	92
3	H	149.8800	39.15	peak	12.60	22.34	1.34	30.75	43.50	-12.75	100	250
4	H	205.5000	46.39	QP	12.02	22.37	1.56	37.60	43.50	-5.90	100	6
5	H	243.8400	46.23	peak	11.49	22.30	1.68	37.10	46.00	-8.90	300	44
6	H	285.9600	47.25	QP	12.98	22.29	1.76	39.70	46.00	-6.30	200	327

**Below 1GHz**



**Test Data**

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	( )
1	V	45.3900	43.22	QP	10.43	22.30	0.75	32.10	40.00	-7.90	200	84
2	V	54.5700	46.67	peak	7.90	22.39	0.78	32.96	40.00	-7.04	100	306
3	V	150.1500	36.48	peak	12.60	22.34	1.34	28.08	43.50	-15.42	100	145
4	V	206.8500	39.28	peak	12.00	22.37	1.56	30.47	43.50	-13.03	300	272
5	V	247.6200	40.18	peak	11.43	22.29	1.69	31.01	46.00	-14.99	300	108
6	V	285.1500	38.04	peak	12.95	22.29	1.76	30.46	46.00	-15.54	100	166

**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)
1187.35	50.73	53	140	V	-20.35	74	-23.27	PK
1769.91	53.42	134	100	V	-21.26	74	-20.58	PK
2051.48	51.94	92	200	V	-19.98	74	-22.06	PK
1657.69	51.06	71	200	H	-19.79	74	-22.94	PK
2277.16	53.89	111	100	H	-20.87	74	-20.11	PK
1923.72	51.22	144	200	H	-19.94	74	-22.78	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	09/16/2016	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"/>
LISN	ISN T800	34373	09/24/2016	09/23/2017	<input checked="" 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	03/24/2016	03/23/2017	<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 - Front View



EUT - Front View

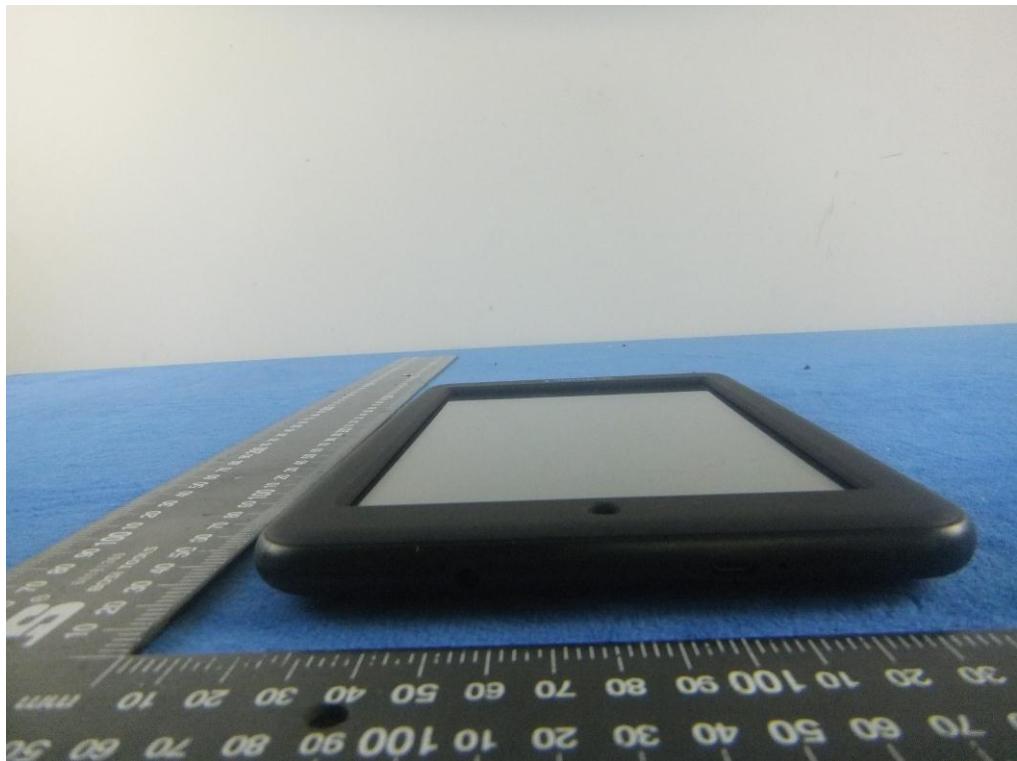


EUT - Rear View

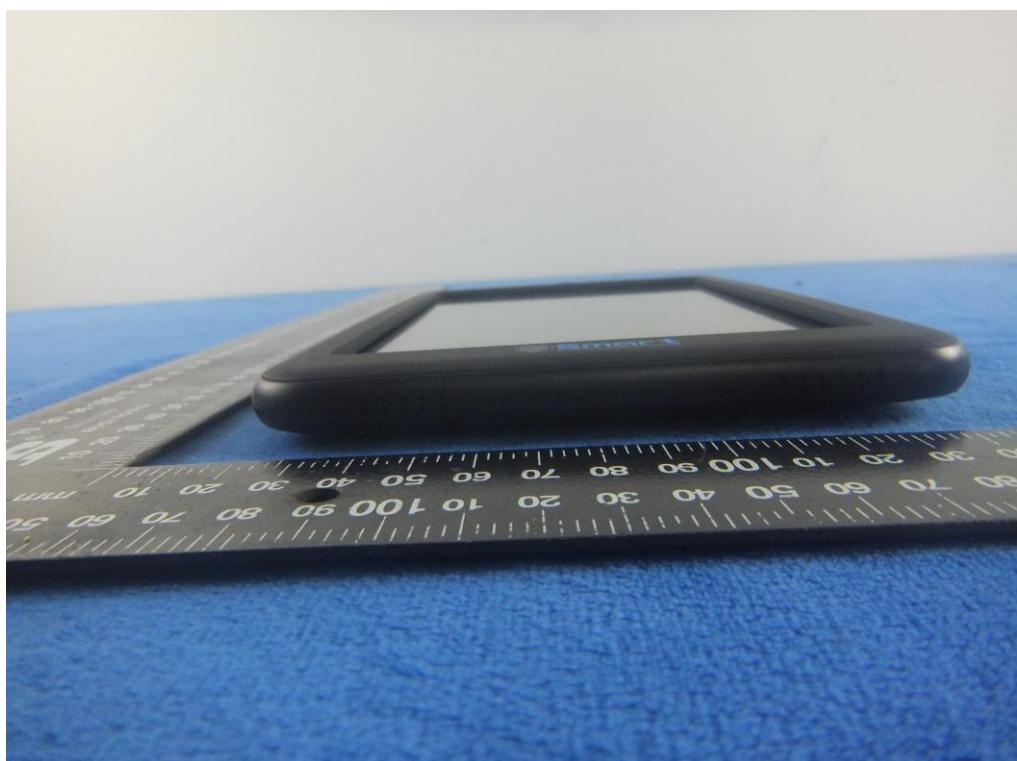


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EUT - Top View

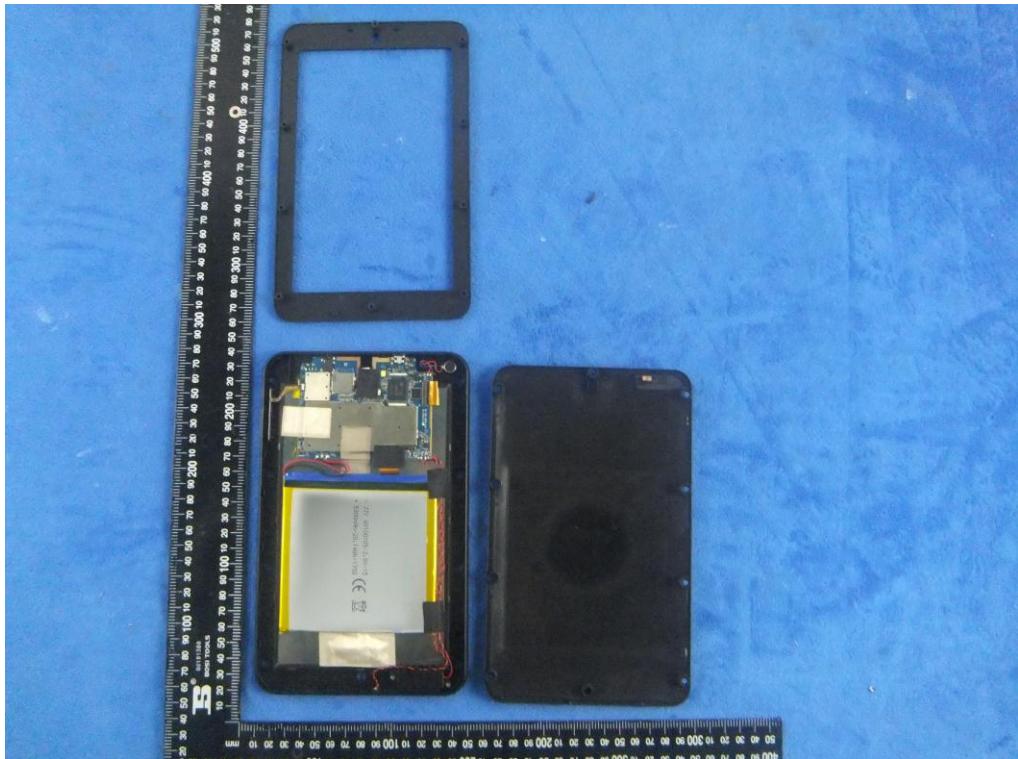


EUT - Bottom View



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

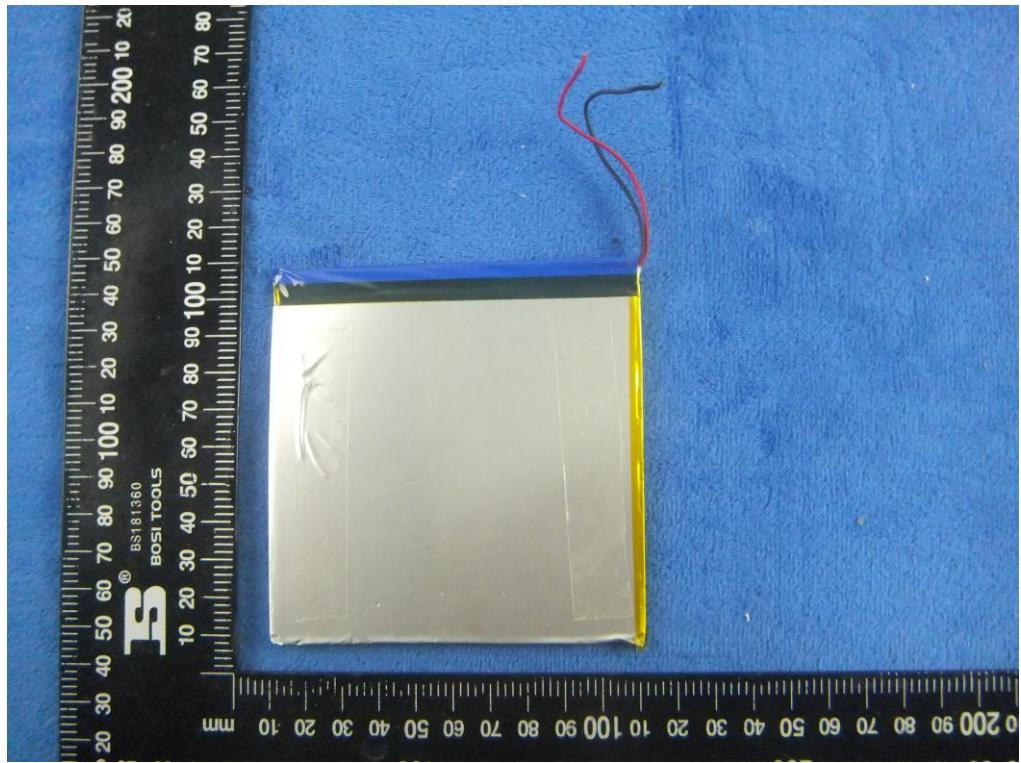
Cover Off - Top View 1



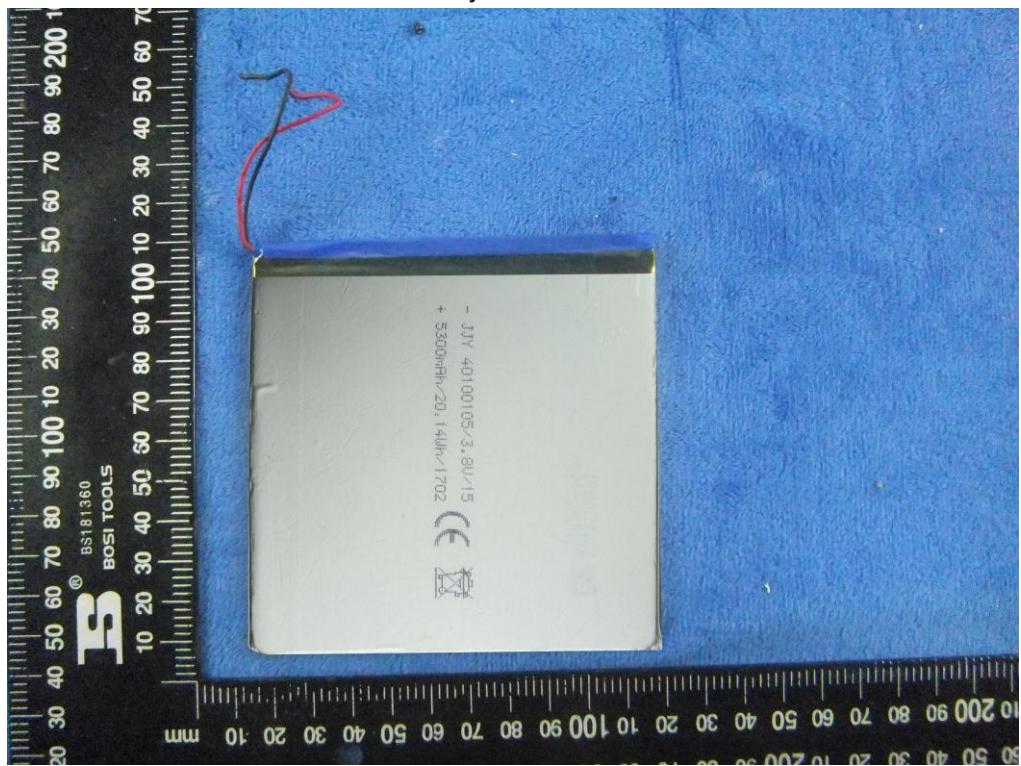
Cover Off - Top View 2



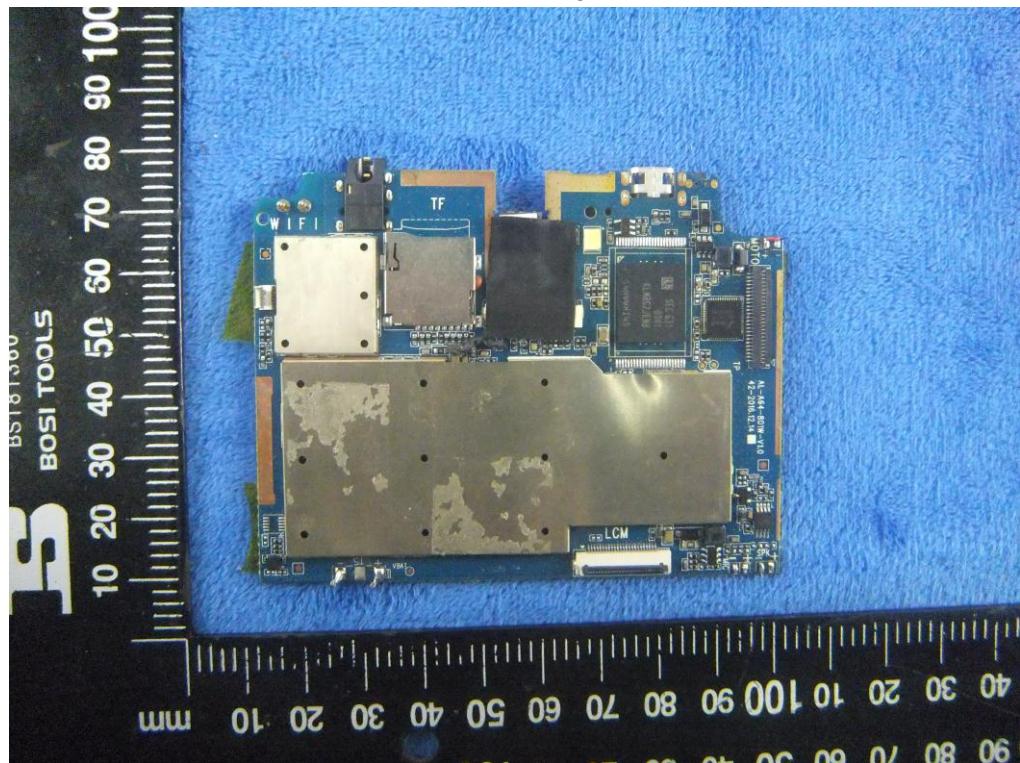
Battery - Front View



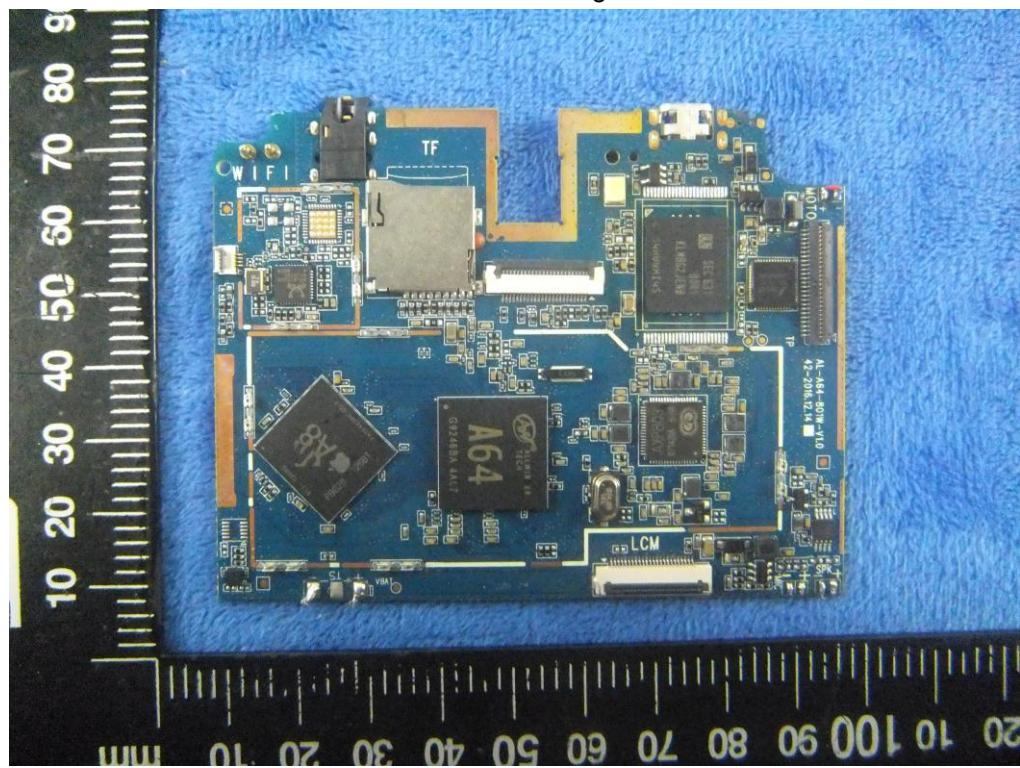
Battery - Rear View



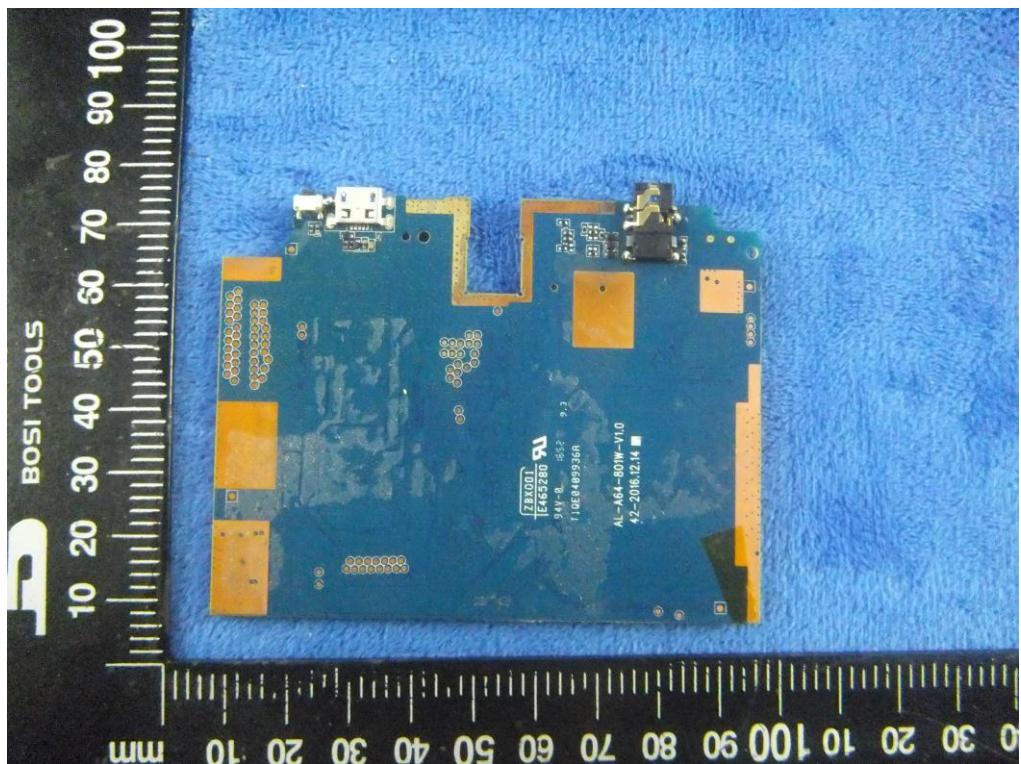
Mainboard with Shielding - Front View



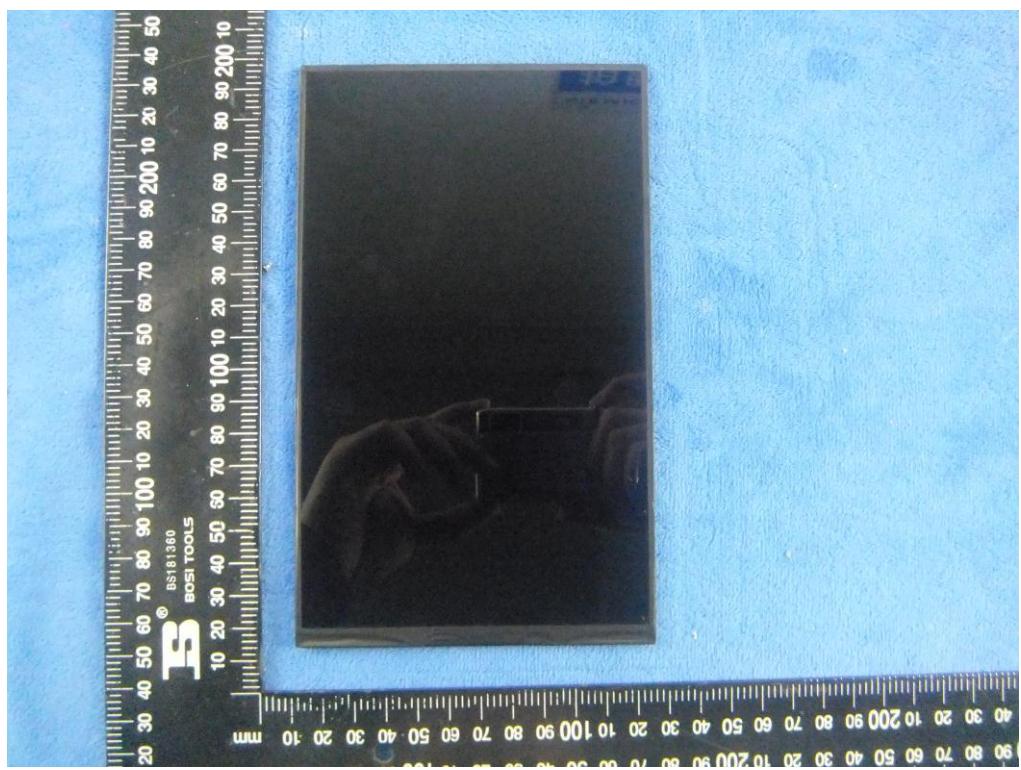
Mainboard without Shielding - Front View



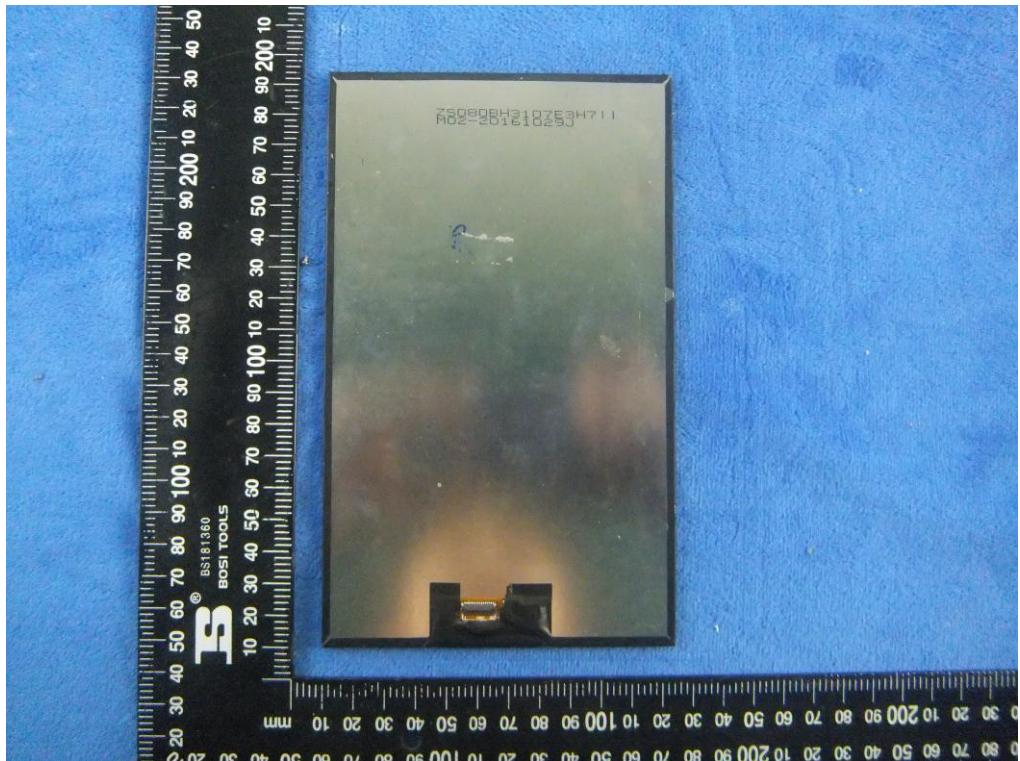
Mainboard - Rear View



LCD – Front View



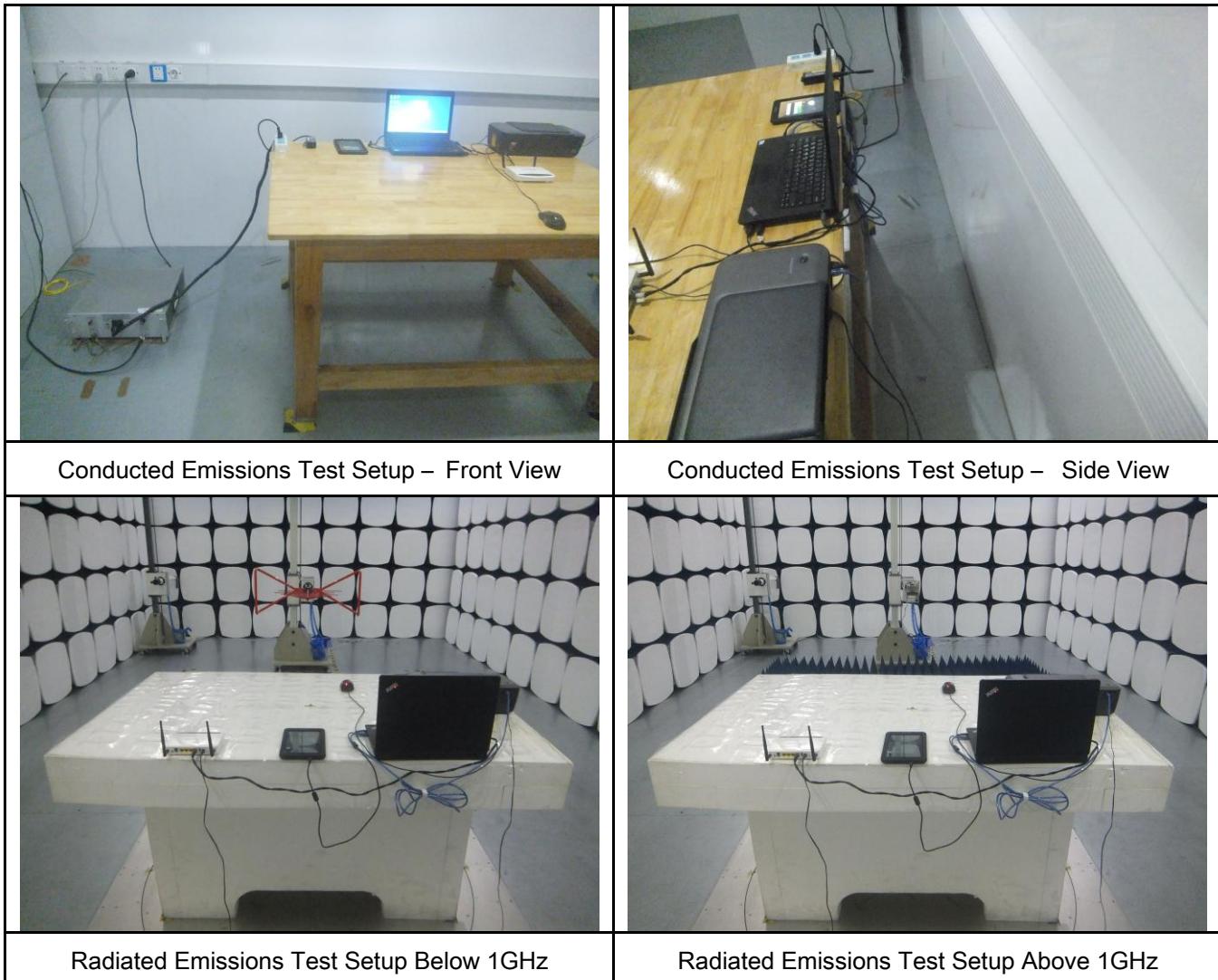
LCD – Rear View



WIFI/BT - Antenna View



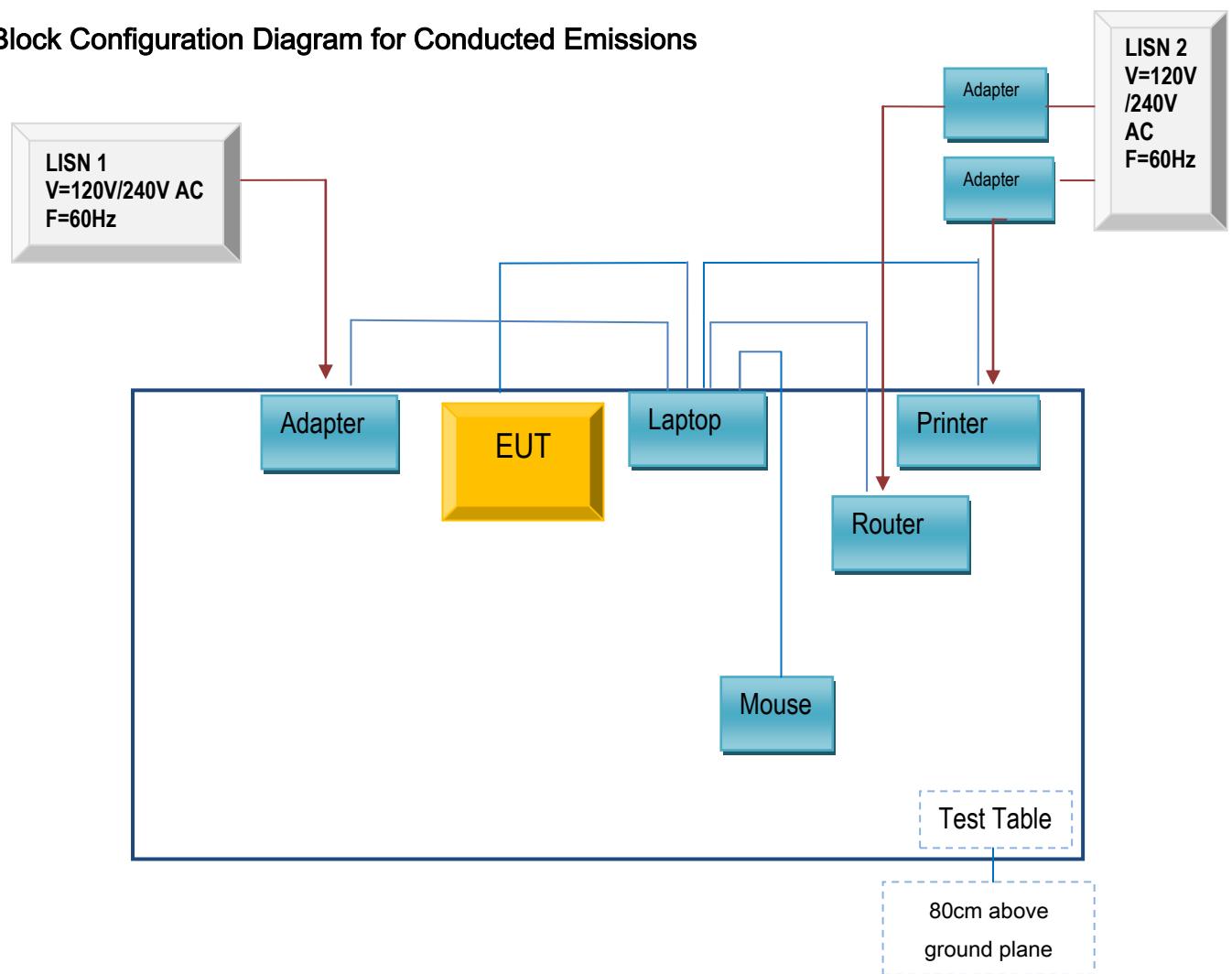
**Annex B.iii. Photograph: Test Setup Photo**



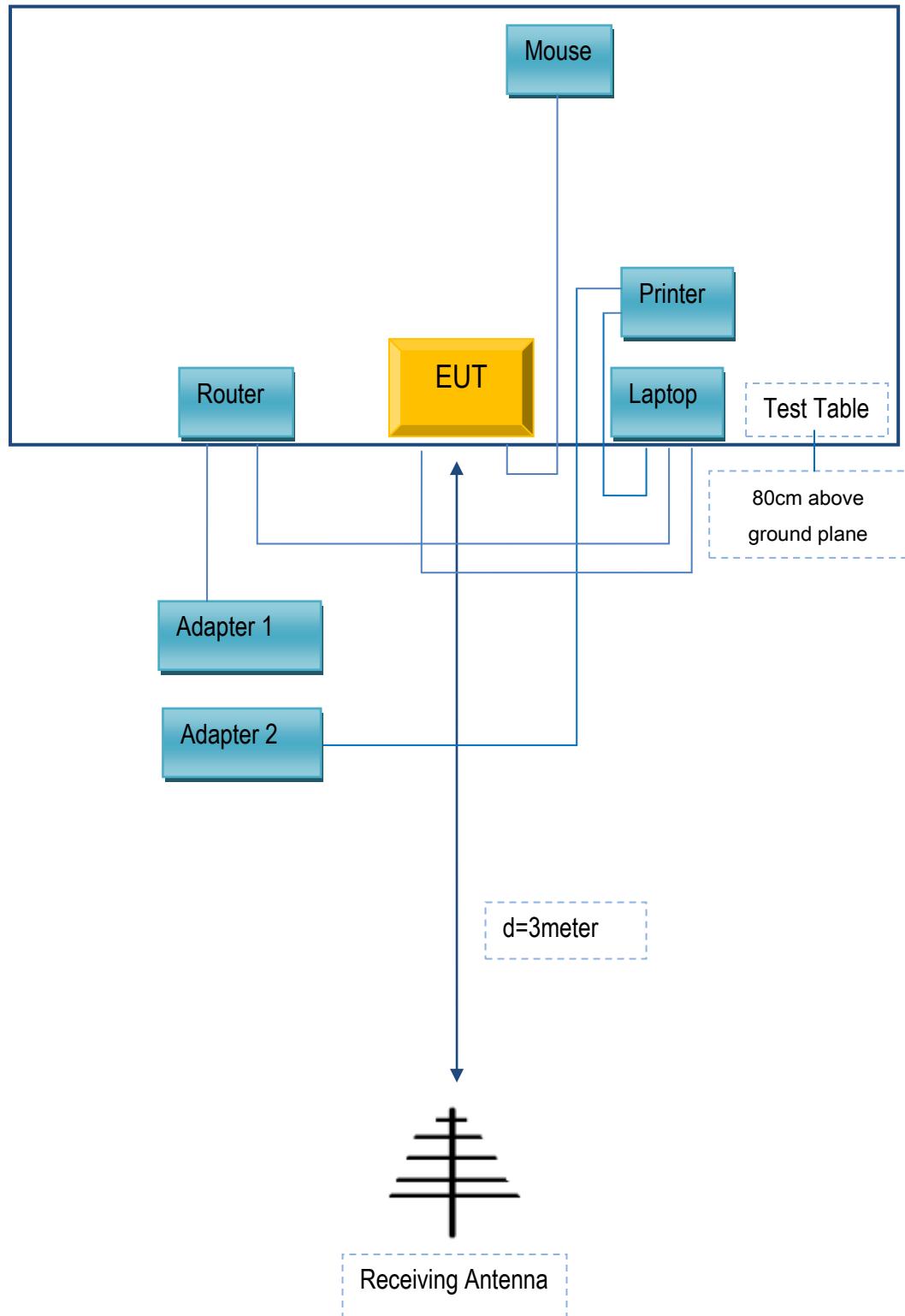
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### 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

### 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

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

Please see the attachment

## Annex E. DECLARATION OF SIMILARITY

N/A