# EMC TEST REPORT



Report No.: 17070358-FCC-E
Supersede Report No: N/A

Applicant	BLU Products, Inc.				
Product Name	Mobile Phone				
Model No.	R2				
Serial No.	N/A	N/A			
Test Standard	FCC Part 1	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014			
Test Date	June 20 to	June 20 to July 04, 2017			
Issue Date	July 05, 2017				
Test Result	Pass Fail				
Equipment compli	Equipment complied with the specification				
Equipment did not comply with the specification					
mais.	He	David	Huang		
Evans He Test Engineer			I Huang cked By		

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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



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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
17070358-FCC-E	NONE	Original	July 05, 2017

## 2. Customer information

Applicant Name	BLU Products, Inc.	
Applicant Add	10814 NW 33rd St # 100 Doral, FL 33172	
Manufacturer	BLU Products, Inc.	
Manufacturer Add	10814 NW 33rd St # 100 Doral, FL 33172	

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	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 Program-To Shenzhen v2.0	
Radiated Emission		
Test Software of	EZ EMC(ver len 0244)	
Conducted Emission	EZ-EMC(ver.lcp-03A1)	



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## 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone

Main Model: R2

Serial Model: N/A

GSM850: -2.6dBi PCS1900: 0.7dBi

UMTS-FDD Band V: -2.6dBi UMTS-FDD Band IV: 0.5dBi

Antenna Gain:

UMTS-FDD Band II: 0.7dBi

WIFI: -2.7dBi

Bluetooth/BLE: -2.7dBi

GPS: -2.9dBi

Antenna Type: PIFA antenna

Adapter:

Model: TPA-46050200UU

Input: AC100-240V~50/60Hz,0.3A

Output: DC 5.0V,1.5A

Input Power: Battery:

Model: C716041300P

Spec: 3.8V,3000mAh,11.4Wh

Voltage: 4.35V

Equipment Category: JBP

GSM / GPRS: GMSK EGPRS: GMSK,8PSK

UMTS-FDD: QPSK

Type of Modulation: 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



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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;

RX: 2112.4 ~ 2152.6 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

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH
UMTS-FDD Band IV: 202CH
UMTS-FDD Band II: 277CH

Number of Channels: 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 :

FCC ID: YHLBLUR2II

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

Date EUT received: June 19, 2017

Test Date(s): June 20 to July 04, 2017



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## 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



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# **Measurement Uncertainty**

Parameter	Uncertainty	
AC Power Line Conducted Emissions	±3.11dB	
(150kHz~30MHz)	±3.110b	
Radiated Emission(30MHz~1GHz)	±5.12dB	
Radiated Emission(1GHz~6GHz)	±5.34dB	



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## 6. Measurements, Examination And Derived Results

## 6.1 AC Power Line Conducted Emissions

Temperature	25 °C	
Relative Humidity	55%	
Atmospheric Pressure	1017mbar	
Test date :	June 23, 2017	
Tested By :	Evans He	

#### Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15.		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.		Į.	
107		Frequency ranges	Limit (		
		(MHz)	QP	Average	
		0.15 ~ 0.5	66 – 56	56 – 46	
		0.5 ~ 5	56	46	
		5 ~ 30	60	50	
Test Setup	Test Setup    Vertical Ground Reference Plane   Test Receiver				
	Reference Plane  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.				
Procedure	<ol> <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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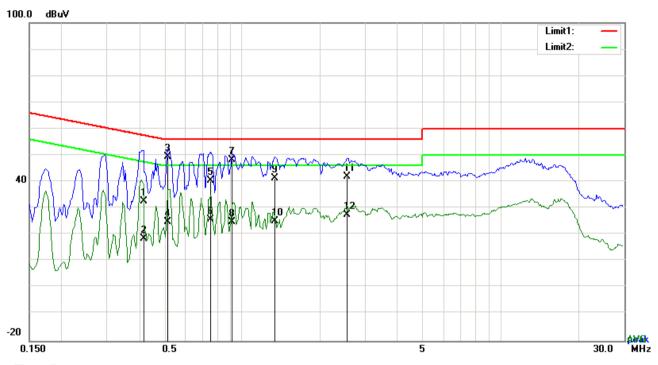
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL 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	Pass Fail

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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Test Mode: USB Mode



#### Test Data

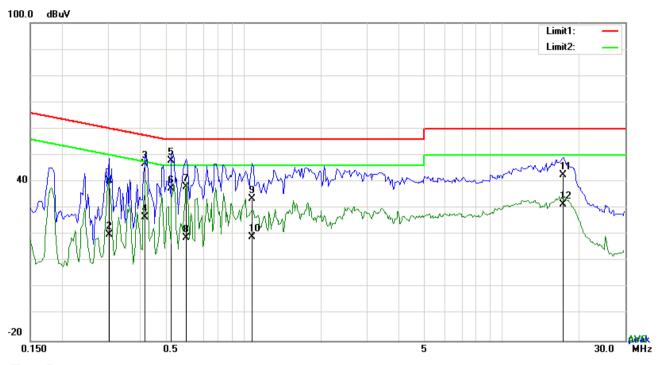
#### Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.4152	22.60	QP	10.03	32.63	57.54	-24.91
2	L1	0.4152	8.40	AVG	10.03	18.43	47.54	-29.11
3	L1	0.5166	39.43	QP	10.03	49.46	56.00	-6.54
4	L1	0.5166	14.96	AVG	10.03	24.99	46.00	-21.01
5	L1	0.7545	30.29	QP	10.03	40.32	56.00	-15.68
6	L1	0.7545	15.66	AVG	10.03	25.69	46.00	-20.31
7	L1	0.9105	38.09	QP	10.03	48.12	56.00	-7.88
8	L1	0.9105	14.68	AVG	10.03	24.71	46.00	-21.29
9	L1	1.3356	31.33	QP	10.03	41.36	56.00	-14.64
10	L1	1.3356	15.06	AVG	10.03	25.09	46.00	-20.91
11	L1	2.5407	31.81	QP	10.05	41.86	56.00	-14.14
12	L1	2.5407	17.61	AVG	10.05	27.66	46.00	-18.34



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Test Mode : USB Mode



#### Test Data

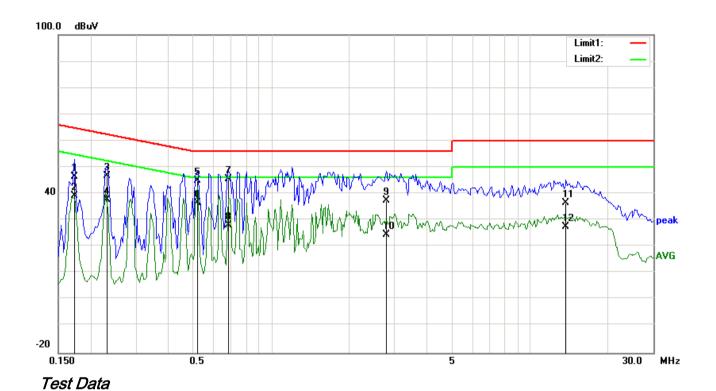
#### Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.3021	30.36	QP	10.02	40.38	60.18	-19.80
2	Ν	0.3021	10.18	AVG	10.02	20.20	50.18	-29.98
3	Ν	0.4191	36.72	QP	10.02	46.74	57.47	-10.73
4	N	0.4191	16.60	AVG	10.02	26.62	47.47	-20.85
5	N	0.5283	37.98	QP	10.02	48.00	56.00	-8.00
6	N	0.5283	27.45	AVG	10.02	37.47	46.00	-8.53
7	N	0.6024	28.07	QP	10.02	38.09	56.00	-17.91
8	N	0.6024	8.88	AVG	10.02	18.90	46.00	-27.10
9	Ν	1.0782	23.49	QP	10.03	33.52	56.00	-22.48
10	N	1.0782	9.19	AVG	10.03	19.22	46.00	-26.78
11	N	17.2545	32.32	QP	10.23	42.55	60.00	-17.45
12	N	17.2545	21.10	AVG	10.23	31.33	50.00	-18.67



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Test Mode : USB Mode



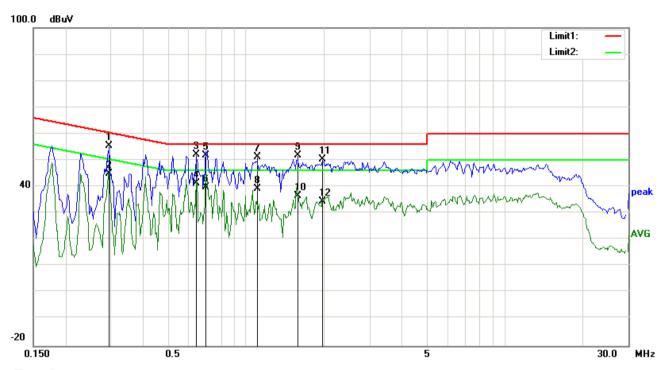
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1734	36.48	QP	10.03	46.51	64.80	-18.29
2	L1	0.1734	29.37	AVG	10.03	39.40	54.80	-15.40
3	L1	0.2319	36.64	QP	10.03	46.67	62.38	-15.71
4	L1	0.2319	27.85	AVG	10.03	37.88	52.38	-14.50
5	L1	0.5205	34.95	QP	10.03	44.98	56.00	-11.02
6	L1	0.5205	26.38	AVG	10.03	36.41	46.00	-9.59
7	L1	0.6843	35.41	QP	10.03	45.44	56.00	-10.56
8	L1	0.6843	18.20	AVG	10.03	28.23	46.00	-17.77
9	L1	2.7864	27.41	QP	10.05	37.46	56.00	-18.54
10	L1	2.7864	14.56	AVG	10.05	24.61	46.00	-21.39
11	L1	13.7874	26.33	QP	10.21	36.54	60.00	-23.46
12	L1	13.7874	17.46	AVG	10.21	27.67	50.00	-22.33



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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	0.2943	45.36	QP	10.03	55.39	60.40	-5.01
2	Ν	0.2943	34.82	AVG	10.03	44.85	50.40	-5.55
3	Ν	0.6414	42.09	QP	10.03	52.12	56.00	-3.88
4	N	0.6414	31.18	AVG	10.03	41.21	46.00	-4.79
5	N	0.6999	41.84	QP	10.03	51.87	56.00	-4.13
6	N	0.6999	29.75	AVG	10.03	39.78	46.00	-6.22
7	N	1.1055	41.21	QP	10.03	51.24	56.00	-4.76
8	Ν	1.1055	29.37	AVG	10.03	39.40	46.00	-6.60
9	Ν	1.5852	41.83	QP	10.04	51.87	56.00	-4.13
10	N	1.5852	26.38	AVG	10.04	36.42	46.00	-9.58
11	Ν	1.9752	40.27	QP	10.04	50.31	56.00	-5.69
12	N	1.9752	24.56	AVG	10.04	34.60	46.00	-11.40



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## 6.2 Radiated Emissions

Temperature	25 °C
Relative Humidity	55%
Atmospheric Pressure	1017mbar
Test date :	June 23, 2017
Tested By :	Evans He

#### Requirement(s):

Spec	Item	Requirement		Applicable	
47CFR§15.	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission the fundamental emission. The tight edges	<b>▽</b>		
109(d)	a)	Frequency range (MHz)	Field Strength (μV/m)		
		30 - 88	100		
		88 – 216	150		
		216 960	200		
		Above 960	500		
Test Setup		Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver			
Procedure	1. 2.	The EUT was switched on and allowe The test was carried out at the selecte characterization. Maximization of the changing the antenna polarization, an manner:  a. Vertical or horizontal polarization	ed frequency points obtained from emissions, was carried out by rot	the EUT ating the EUT, the following	



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_		
		over a full rotation of the EUT) was chosen.
	b.	The EUT was then rotated to the direction that gave the maximum
		emission.
	c.	Finally, the antenna height was adjusted to the height that gave the maximum
		emission.
	3. TI	ne resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	12	20 kHz for Quasiy Peak detection at frequency below 1GHz.
	4. Th	e resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	ba	andwidth is 3MHz with Peak detection for Peak measurement at frequency above
	10	GHz.
	Т Т	he resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	b	pandwidth with Peak detection for Average Measurement as below at frequency
	а	above 1GHz.
	•	1 kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. St	teps 2 and 3 were repeated for the next frequency point, until all selected frequency
	ро	pints were measured.
Remark		
D 11	▼ Doos	F
Result	Pass	<b>└</b> Fail
	1.,	Fl
Test Data	Yes	N/A
Test Plot	Yes (See	below)

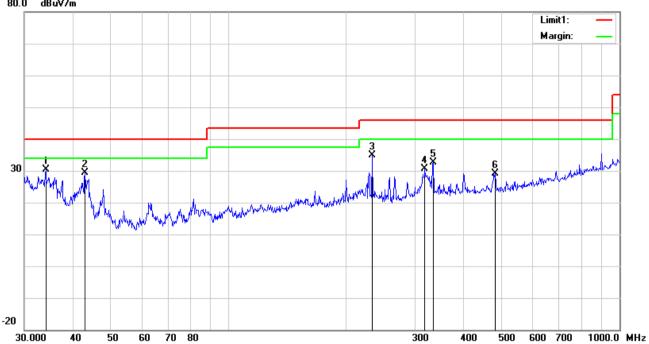


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USB Mode Test Mode:

#### Below 1GHz





#### Test Data

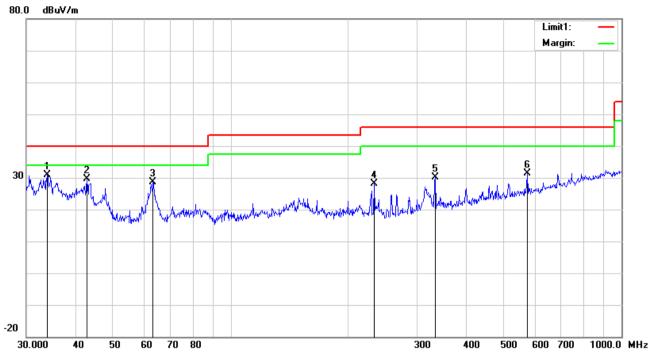
#### Horizontal Polarity Plot @3m

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	Н	34.0365	33.51	peak	18.29	22.26	0.73	30.27	40.00	-9.73	100	237
2	Н	42.8998	38.99	peak	11.99	22.29	0.77	29.46	40.00	-10.54	100	301
3	Н	232.5318	44.02	peak	11.64	22.32	1.64	34.98	46.00	-11.02	100	100
4	Н	317.7011	36.94	peak	13.97	22.24	1.88	30.55	46.00	-15.45	100	119
5	Н	333.6867	38.65	peak	14.31	22.20	1.96	32.72	46.00	-13.28	100	56
6	Н	480.5276	31.38	peak	17.31	21.85	2.31	29.15	46.00	-16.85	100	190



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#### 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	٧	33.9174	33.92	peak	18.38	22.26	0.73	30.77	40.00	-9.23	100	147
2	V	42.8998	39.05	peak	11.99	22.29	0.77	29.52	40.00	-10.48	100	75
3	V	63.3132	42.82	peak	7.47	22.40	0.84	28.73	40.00	-11.27	100	72
4	V	232.5318	37.27	peak	11.64	22.32	1.64	28.23	46.00	-17.77	100	174
5	٧	333.6867	36.00	peak	14.31	22.20	1.96	30.07	46.00	-15.93	100	71
6	٧	574.6258	31.71	peak	18.74	21.64	2.48	31.29	46.00	-14.71	100	183



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#### Above 1GHz

Frequency (MHz)	Read_level	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV)
1316.5	71.71	305	100	V	-19.25	52.46	74	-21.54	PK
1875.9	68.81	247	100	V	-15.84	52.97	74	-21.03	PK
2341.8	66.54	168	100	V	-14.23	52.31	74	-21.69	PK
1524.6	68.83	132	100	Н	-18.67	50.16	74	-23.84	PK
2519.8	65.83	95	100	Н	-13.95	51.88	74	-22.12	PK
1799.3	69.81	205	100	Н	-16.64	53.17	74	-20.83	PK

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

Note 2: 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.



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## Annex A. TEST INSTRUMENT

Instrument	Model	Serial#	Cal Date	Cal Due	In use		
AC Line Conducted Emissions							
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	•		
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	₹		
Stabilization Network							
Line Impedance Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	>		
ISN	ISN T800	34373	09/24/2016	09/23/2017			
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<		
Radiated Emissions							
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<		
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<b>\</b>		
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	>		
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	>		
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	<b>\(\z\)</b>		



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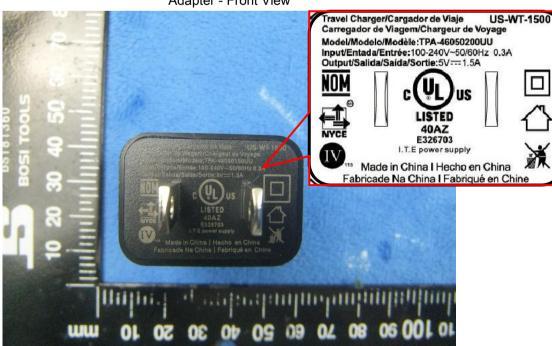
## Annex B. EUT And Test Setup Photographs

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





Adapter - Front View





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**EUT - Front View** 



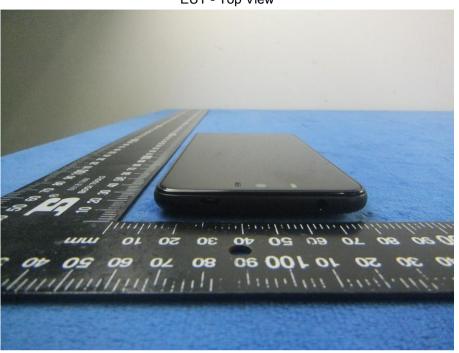
**EUT - Rear View** 





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EUT - Top View



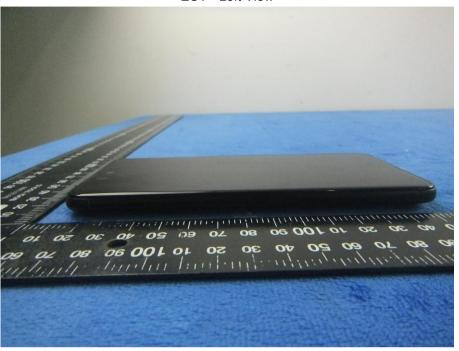
EUT - Bottom View



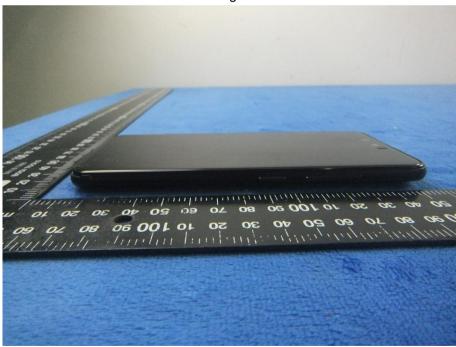


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EUT - Left View



EUT - Right View





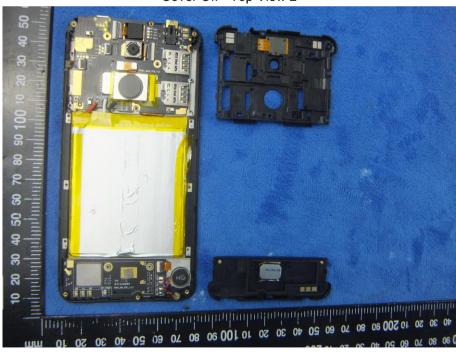
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#### Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1



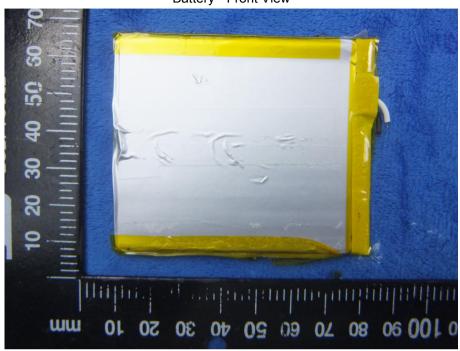
Cover Off - Top View 2





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Battery - Front View



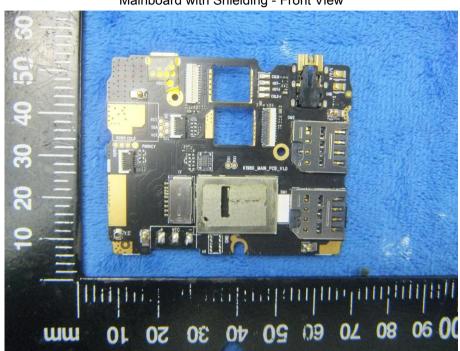
Battery - Rear View



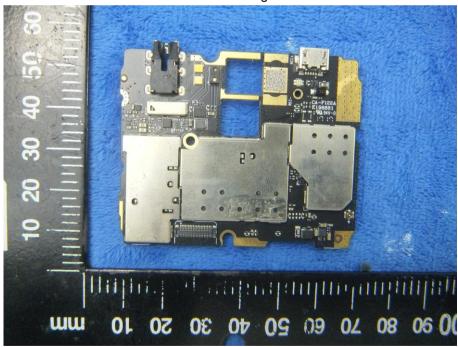


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Mainboard with Shielding - Front View



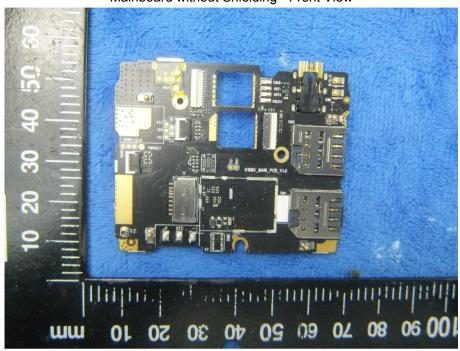
Mainboard with Shielding - Rear View



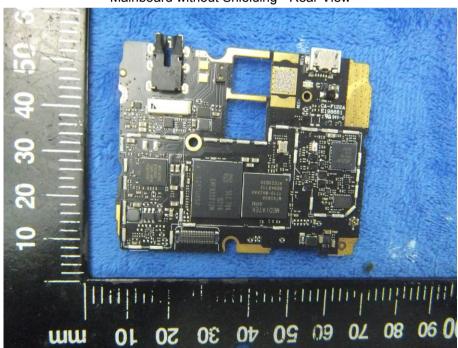


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Mainboard without Shielding - Front View



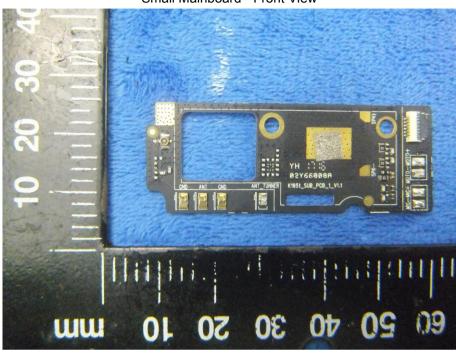
Mainboard without Shielding - Rear View



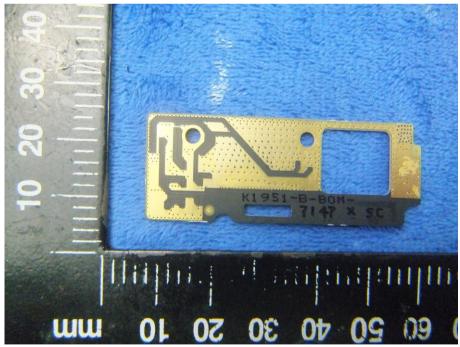


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#### Small Mainboard - Front View



Small Mainboard - Rear View





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LCD - Front View



LCD - Rear View





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#### GSM/PCS/UMTS - Antenna View



BT/WIFI - Antenna View



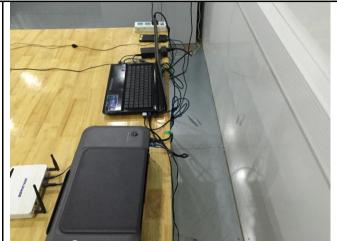


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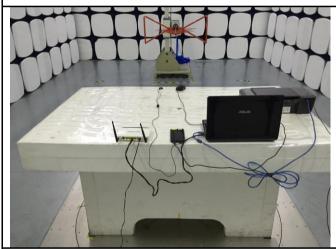
## Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



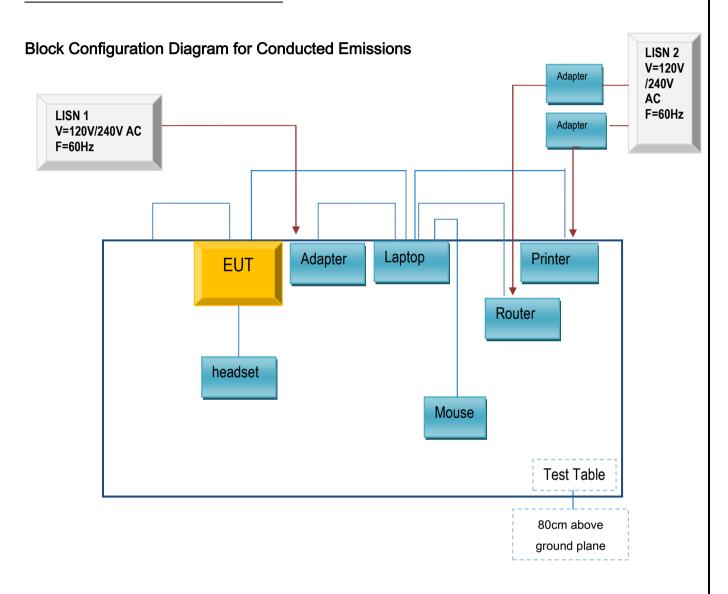
Radiated Emissions Test Setup Above 1GHz



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## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

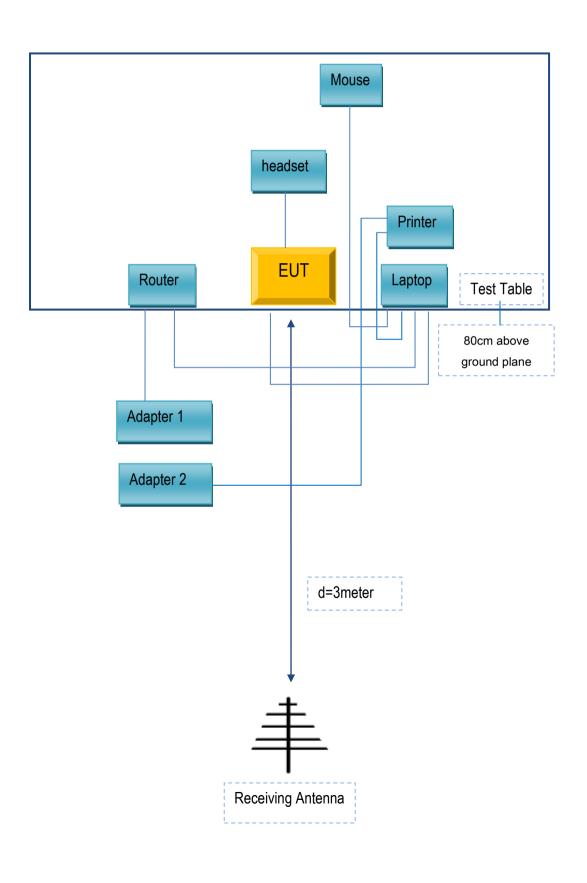
#### Annex C.ii. TEST SET UP BLOCK





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## **Block Configuration Diagram for Radiated Emissions**





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## Annex C. il. 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
SAMSUNG	headset	HS130	N/A

#### Supporting Cable:

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

Please see the attachment



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## Annex E. DECLARATION OF SIMILARITY

N/A