# EMC TEST REPORT



Report No.: 17070358-FCC-E

Supersede Report No: N/A

Applicant	licant BLU Products, Inc.			
Product Name	Mobile Phone			
Model No.	R2			
Serial No.	N/A			
Test Standard	FCC Part 1	5 Subpart B Class B:2016, A	NSI C63.4: 2014	
Test Date	June 20 to	July 04, 2017		
Issue Date	July 05, 201	17		
Test Result	Pass	Fail		
Equipment compl	ied with the s	specification		
Equipment did no	t comply with	the specification		
mars. He		David Huang		
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				
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.

•		
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	

### Accreditations for Conformity Assessment



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



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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
Antenna Gain:	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
Type of Modulation.	Bluetooth: GFSK, π /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 WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH Bluetooth: 79CH BLE: 40CH GPS:1CH 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

Number of Channels:

Port:



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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)	±3.11db	
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	55%
Atmospheric Pressure	1017mbar
Test date :	June 23, 2017
Tested By :	Evans He

### Requirement(s):

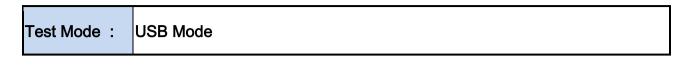
Spec	Item	Requirement			Applicable	
47CFR§15. 107	a)	Frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall 		V		
Test Setup		5 ~ 30 60 50 Vertical Ground Reference Plane UT Horizontal Ground Reference Plane Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm				
Procedure	the 2. The	the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.				

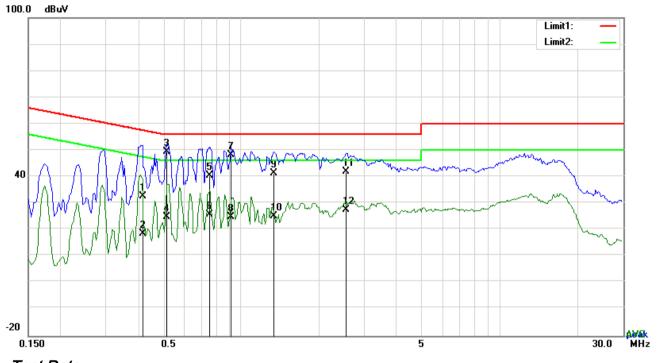
Test Data       Image: Test Report         Yes				
A Bureau Veritas Group Company       Page       11 of 38         3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.       4. All other supporting equipment were powered separately from another main supply.         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       Page         Page       N/A	SIF	MIC	Test Report	17070358-FCC-E
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	A Bureau Verit	as Group Company		11 of 38
Remark   Result Pass   Fail   Test Data   Yes	A Bureau Verit	<ol> <li>The RF OUT of the E coaxial cable.</li> <li>All other supporting e</li> <li>The EUT was switched</li> <li>A scan was made on over the required free</li> <li>High peaks, relative the selected frequencies setting of 10 kHz.</li> </ol>	EUT LISN was co equipment were p ed on and allowe the NEUTRAL li quency range usi to the limit line, T and the necessa	onnected to the EMI test receiver via a low-loss bowered separately from another main supply. Ed to warm up to its normal operating condition. ne (for AC mains) or Earth line (for DC power) ng an EMI test receiver. The EMI test receiver was then tuned to the ary measurements made with a receiver bandwidth
Result Pass   Fail    Test Data		o. Step / was then repe		
Test Data	Remark			
Test Data	Result	Pass 🗖 F	ail	
	Test Plot	Tes (See below)	N/A	



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### Test Data

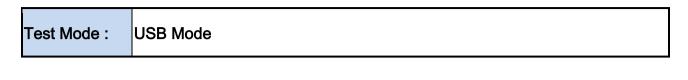
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.4152	22.60	QP	10.03	32.63	57.54	-24.91
2	L1	0.4152	8.40	AVG	10.03	18.43	47.54	-29.11
3	L1	0.5166	39.43	QP	10.03	49.46	56.00	-6.54
4	L1	0.5166	14.96	AVG	10.03	24.99	46.00	-21.01
5	L1	0.7545	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

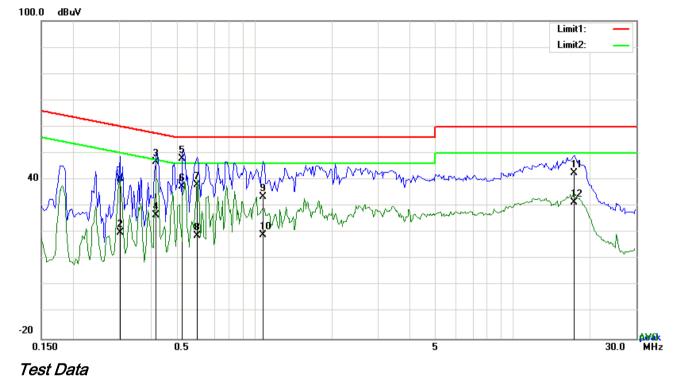
### Phase Line Plot at 120Vac, 60Hz



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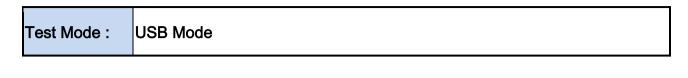
### Phase Neutral Plot at 120Vac, 60Hz

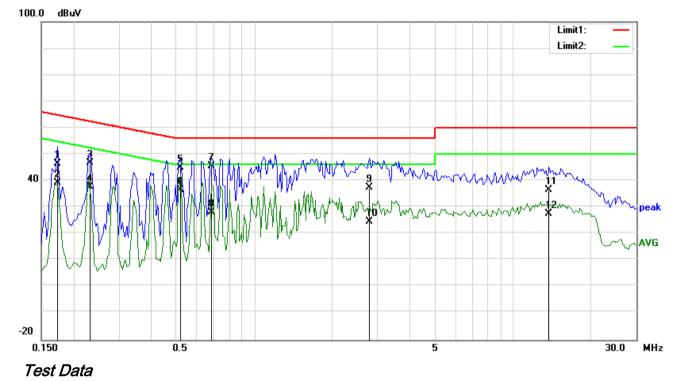
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.3021	30.36	QP	10.02	40.38	60.18	-19.80
2	Ν	0.3021	10.18	AVG	10.02	20.20	50.18	-29.98
3	Ν	0.4191	36.72	QP	10.02	46.74	57.47	-10.73
4	Ν	0.4191	16.60	AVG	10.02	26.62	47.47	-20.85
5	Ν	0.5283	37.98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



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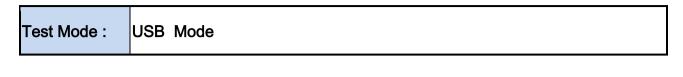
Phase	Line	Plot a	t 240Vac,	60Hz
1 11400		i iot u	. <del>270</del> v uo	

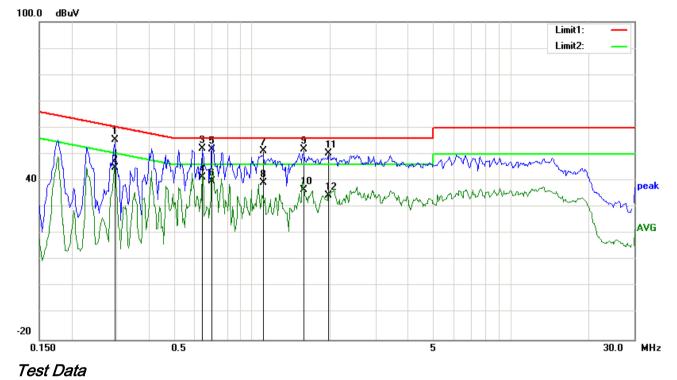
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1734	36.48	QP	10.03	46.51	64.80	-18.29
2	L1	0.1734	29.37	AVG	10.03	39.40	54.80	-15.40
3	L1	0.2319	36.64	QP	10.03	46.67	62.38	-15.71
4	L1	0.2319	27.85	AVG	10.03	37.88	52.38	-14.50
5	L1	0.5205	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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### Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	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	Ν	0.6414	31.18	AVG	10.03	41.21	46.00	-4.79
5	Ν	0.6999	41.84	QP	10.03	51.87	56.00	-4.13
6	Ν	0.6999	29.75	AVG	10.03	39.78	46.00	-6.22
7	Ν	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	Ν	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	Ν	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

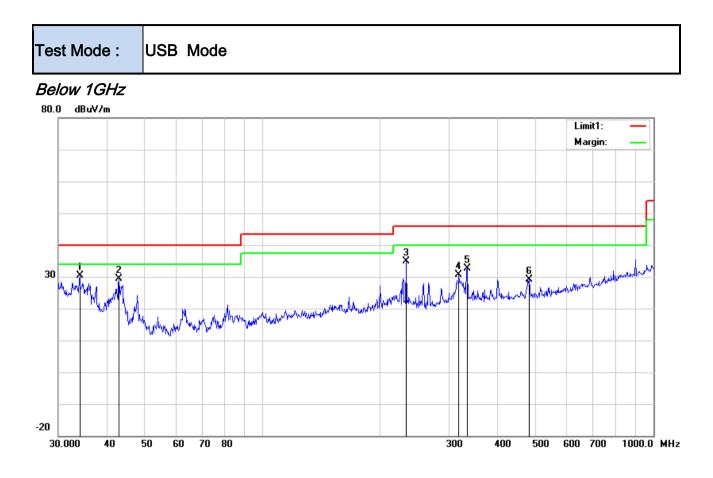
### Requirement(s):

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 tigh edges	<b>V</b>		
109(d)		Frequency range (MHz)	Field Strength (µV/m)		
		30 - 88	100		
		88 - 216	150		
		216 960	200		
		Above 960	500		
Test Setup	Ant. Tower UT& 3m Support Units Turn Table Ground Plane Test Receiver				
Procedure	2.				

3							
SİF	MIC	Test Report	17070358-FCC-E				
A Bureau Verit	as Group Company	Page	17 of 38				
	over a f	ull rotation of the E	UT) was chosen.				
	b. The EL	IT was then rotated	to the direction that gave the maximum				
	emissio	emission.					
	c. Finally, emissic	-	t was adjusted to the height that gave the maximum				
	3. The resolution b	andwidth and vide	o bandwidth of test receiver/spectrum analyzer is				
		asiy Peak detection	at frequency below 1GHz.				
			eiver/spectrum analyzer is 1MHz and video				
	bandwidth is 3M 1GHz.	1Hz with Peak dete	ction for Peak measurement at frequency above				
		bandwidth of test re	eceiver/spectrum analyzer is 1MHz and the video				
			Average Measurement as below at frequency				
	above 1GHz.		J				
	■ 1 kHz (Duty	cycle < 98%) □ 10	Hz (Duty cycle > 98%)				
	5. Steps 2 and 3 w	vere repeated for th	e next frequency point, until all selected frequency				
	points were me	asured.					
Remark							
Result	Pass	Fail					
- (	Yes						
		N/A					
Test Plot	Yes (See below)	□ <sub>N/A</sub>					



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### Test Data

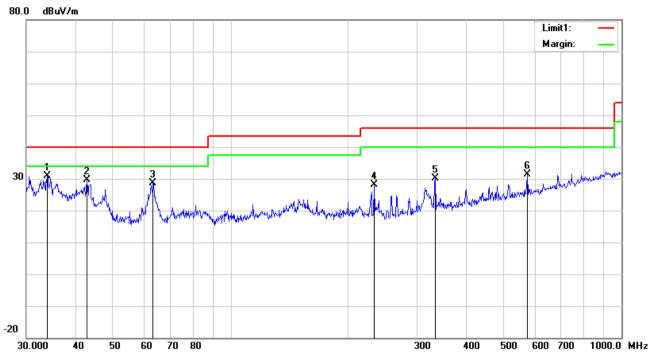
### Horizontal Polarity Plot @3m

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	V	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	V	333.6867	36.00	peak	14.31	22.20	1.96	30.07	46.00	-15.93	100	71
6	V	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 (dBµV/m)	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\*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.



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# Annex A. TEST INSTRUMENT

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

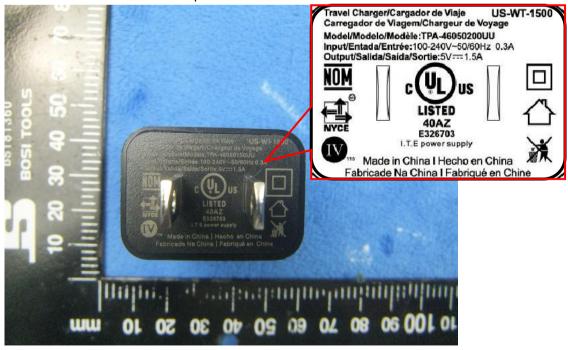


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### Annex B. EUT And Test Setup Photographs

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







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EUT - Front View



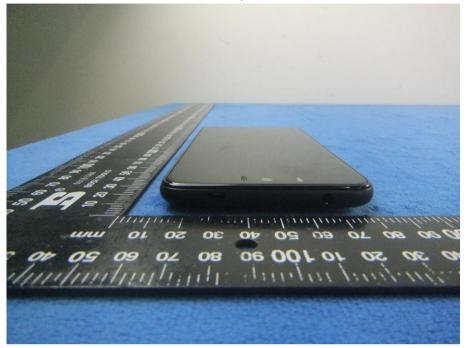
EUT - Rear View



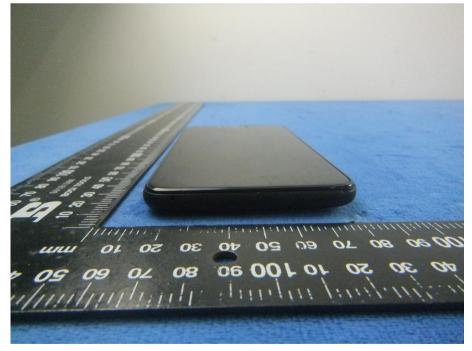


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EUT - Top View



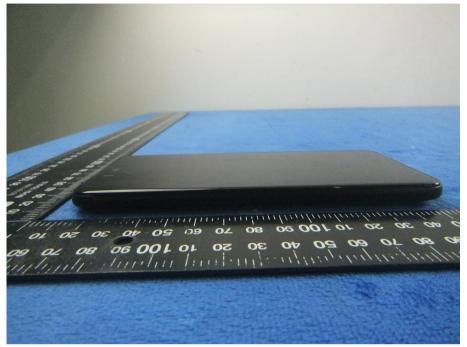
#### EUT - Bottom View



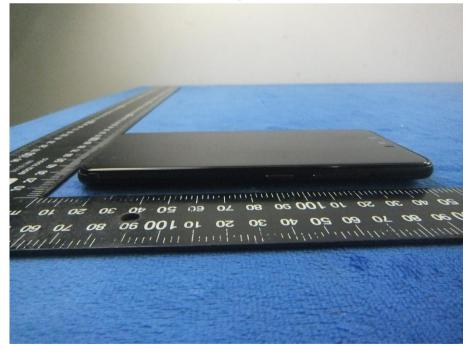


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EUT - Left View



EUT - Right View





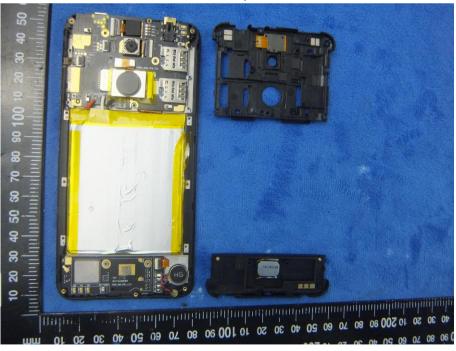
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### Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1

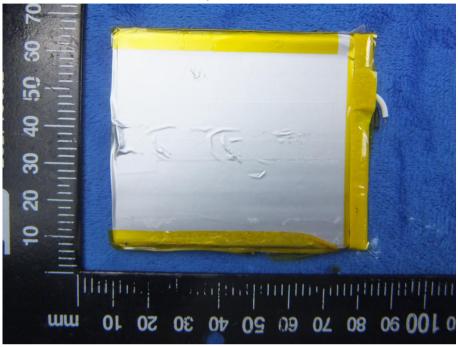
#### Cover Off - Top View 2



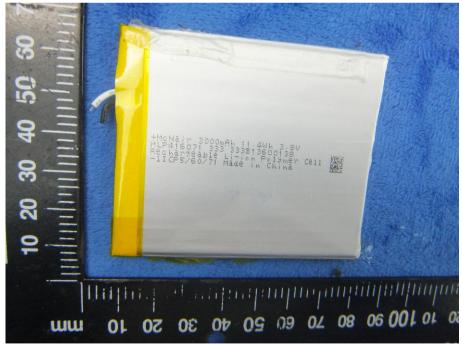


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Battery - Front View



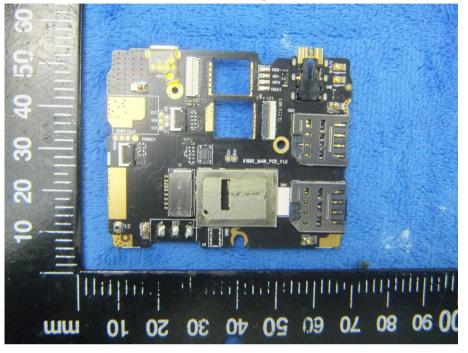
#### Battery - Rear View



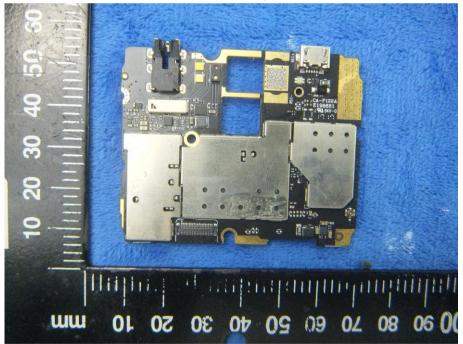


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Mainboard with Shielding - Front View



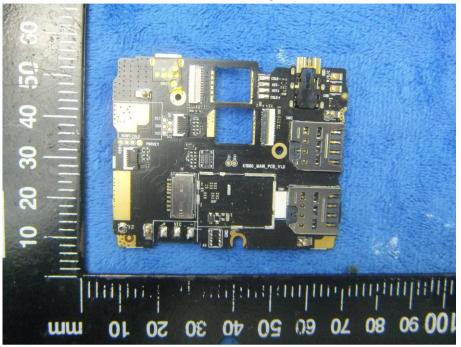
Mainboard with Shielding - Rear View



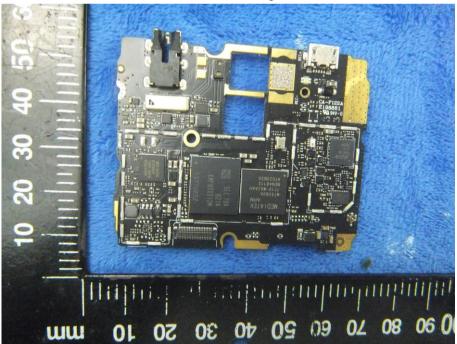


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Mainboard without Shielding - Front View



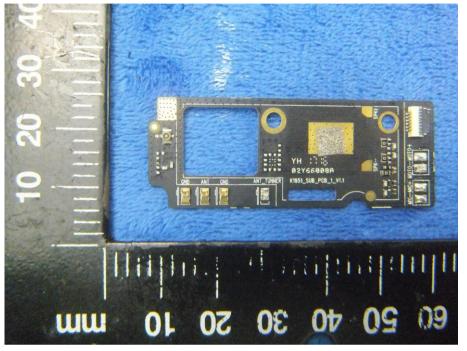
Mainboard without Shielding - Rear View



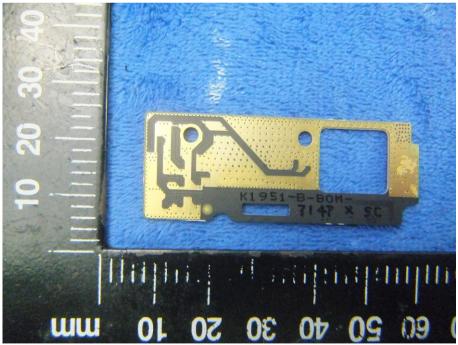


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Small Mainboard - Front View



#### Small Mainboard - Rear View



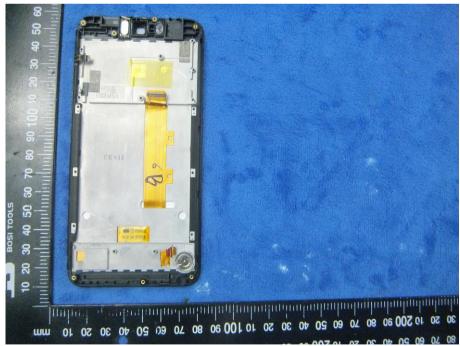


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LCD - Front View



LCD – Rear View





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



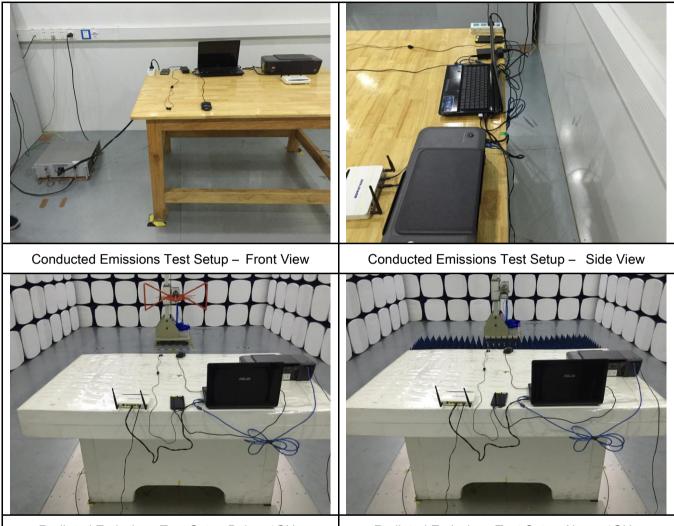
#### BT/WIFI - Antenna View





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



Radiated Emissions Test Setup Below 1GHz

Radiated Emissions Test Setup Above 1GHz

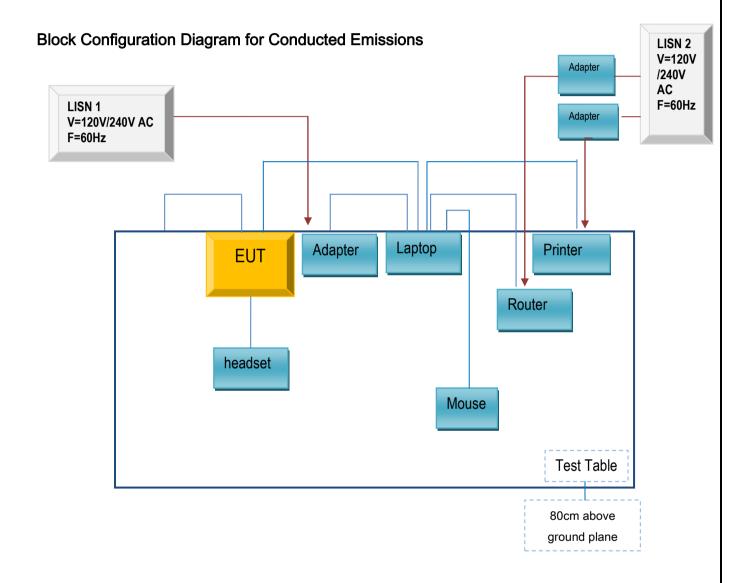


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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

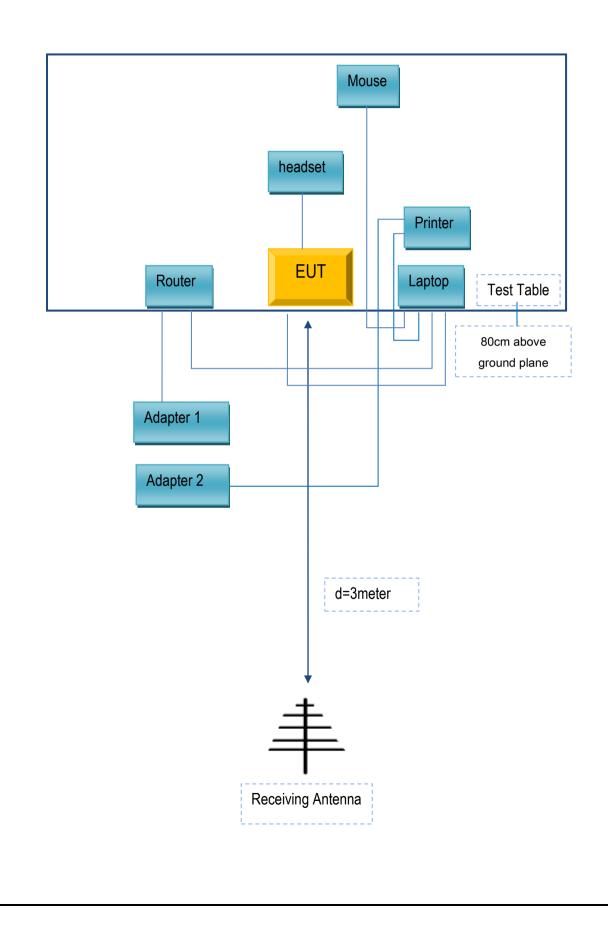
### Annex C.ii. TEST SET UP BLOCK





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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:

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