# EMC TEST REPORT



Report No.: 17070456-FCC-E-V1

Supersede Report No: N/A

Applicant	BLU Products, Inc.				
Product Name	Mobile Phone				
Model No.	BLU C5	BLU C5			
Serial No.	N/A				
Test Standard	FCC Part 1	5 Subpart B	Class B:2016, A	NSI C63.4: 2014	
Test Date	July 27 to	July 27 to August 13, 2017			
Issue Date	August 21, 2017				
Test Result	Pass Fail				
Equipment complied with the specification					
Equipment did not comply with the specification					
mais.	He	David	Huang		
Evans He Test Engineer			Huang ked 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
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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.



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## **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
17070456-FCC-E	NONE	Original	August 14, 2017
		P7 Changed the	
17070456-FCC-E-V1	V1	GPRS/EGPRS Multi-slot class	August 21, 2017
		data	

# 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.lcp-03A1)		
Conducted Emission			



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## 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone

Main Model: BLU C5

Serial Model: N/A

GSM850: -2.0dBi PCS1900: -1.2dBi

UMTS-FDD Band V: -2.0dBi UMTS-FDD Band IV: -1.5dBi

Antenna Gain:

UMTS-FDD Band II: -2.0dBi

WIFI: 0.5dBi

Bluetooth/BLE:0.5dBi

GPS: 0.5dBi

Antenna Type: PIFA antenna

Adapter:

Model: US-WW-1001

Input: AC100-240V~50/60Hz,0.2A

Output: DC 5.0V,1000mA

Input Power: Battery:

Model: C775840200L

Spec: 3.8V, 2000mAh, 7.60Wh

Equipment Category: JBP

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz RF Operating Frequency (ies):

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz



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UMTS-FDD Band V TX: 826.4  $\sim$  846.6 MHz; RX: 871.4  $\sim$  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 : BLU

FCC ID: YHLBLUC5

GPRS/ EGPRS Multi-slot class 8/10/11/12

Date EUT received: July 26, 2017

Test Date(s): July 27 to August 13, 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

#### **Measurement Uncertainty**

Parameter	Uncertainty	
AC Power Line Conducted Emissions	±3.11dB	
(150kHz~30MHz)	13.1100	
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	57%		
Atmospheric Pressure	1015mbar		
Test date :	August 07, 2017		
Tested By :	Evans He		

#### Requirement(s):

Spec	Item	Requirement	Applicable			
47CFR§15. 107	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequence voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, sh not exceed the limits in the following table, as measured using a			the radio frequency ower line on any kHz to 30 MHz, shall measured using a 50 network (LISN). The ne frequencies ranges.		
		(MHz)	QP	Average		
		0.15 ~ 0.5	66 – 56	56 – 46		
		0.5 ~ 5	56	46		
		5 ~ 30	60	50		
Test Setup		Vertical Ground Reference Plane  EUT  Horizontal Ground Reference Plane				
Procedure	<ol> <li>The EUT and supporting equipment were set up in accordance with the rethe 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, of filtered mains.</li> </ol>					



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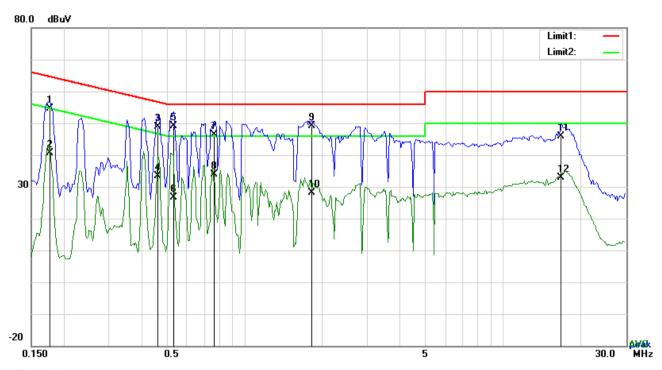
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss			
	coaxial cable.			
	4. All other supporting equipment were powered separately from another main supply.			
	5. The EUT was switched on and allowed to warm up to its normal operating condition.			
	6. A scan was made 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.			
	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

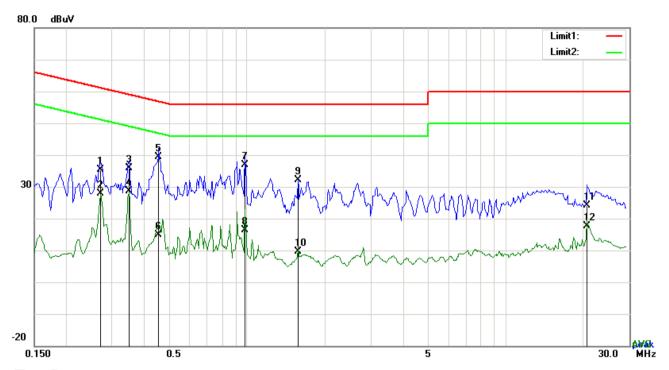
## Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1773	44.69	QP	10.03	54.72	64.61	-9.89
2	L1	0.1773	30.50	AVG	10.03	40.53	54.61	-14.08
3	L1	0.4620	38.74	QP	10.03	48.77	56.66	-7.89
4	L1	0.4620	23.40	AVG	10.03	33.43	46.66	-13.23
5	L1	0.5322	38.99	QP	10.03	49.02	56.00	-6.98
6	L1	0.5322	16.70	AVG	10.03	26.73	46.00	-19.27
7	L1	0.7662	36.47	QP	10.03	46.50	56.00	-9.50
8	L1	0.7662	23.76	AVG	10.03	33.79	46.00	-12.21
9	L1	1.8231	39.04	QP	10.04	49.08	56.00	-6.92
10	L1	1.8231	18.21	AVG	10.04	28.25	46.00	-17.75
11	L1	16.7904	35.52	QP	10.25	45.77	60.00	-14.23
12	L1	16.7904	22.56	AVG	10.25	32.81	50.00	-17.19



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est Mode:	
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#### Test Data

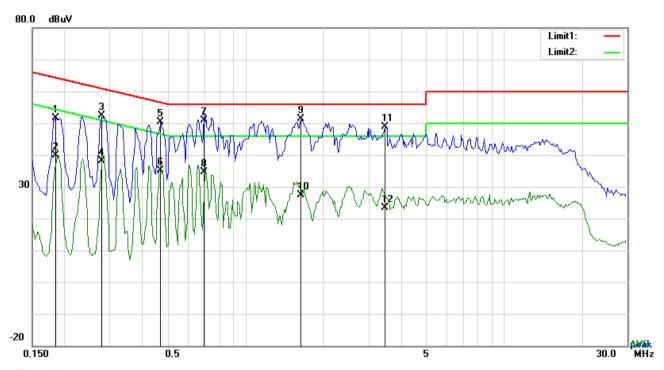
## Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.2709	25.23	QP	10.03	35.26	61.09	-25.83
2	L1	0.2709	17.86	AVG	10.03	27.89	51.09	-23.20
3	L1	0.3489	25.75	QP	10.03	35.78	58.99	-23.21
4	L1	0.3489	18.70	AVG	10.03	28.73	48.99	-20.26
5	L1	0.4542	29.45	QP	10.03	39.48	56.80	-17.32
6	L1	0.4542	4.91	AVG	10.03	14.94	46.80	-31.86
7	L1	0.9807	26.73	QP	10.03	36.76	56.00	-19.24
8	L1	0.9807	6.37	AVG	10.03	16.40	46.00	-29.60
9	L1	1.5696	22.11	QP	10.04	32.15	56.00	-23.85
10	L1	1.5696	-0.39	AVG	10.04	9.65	46.00	-36.35
11	L1	20.5578	13.73	QP	10.31	24.04	60.00	-35.96
12	L1	20.5578	7.24	AVG	10.31	17.55	50.00	-32.45



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Test Mode : USB Mode



Test Data

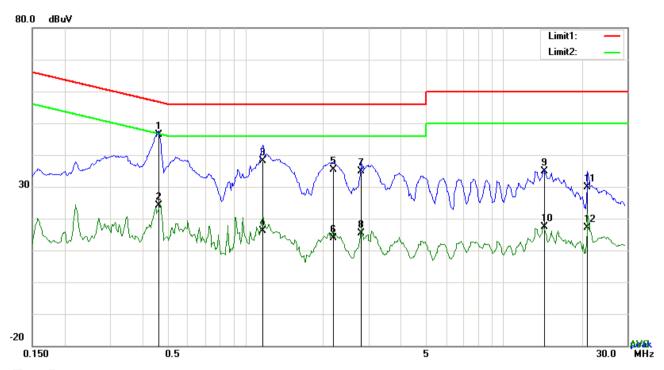
## Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1851	41.60	QP	10.03	51.63	64.25	-12.62
2	L1	0.1851	29.93	AVG	10.03	39.96	54.25	-14.29
3	L1	0.2787	42.24	QP	10.03	52.27	60.85	-8.58
4	L1	0.2787	28.16	AVG	10.03	38.19	50.85	-12.66
5	L1	0.4698	40.38	QP	10.03	50.41	56.52	-6.11
6	L1	0.4698	25.12	AVG	10.03	35.15	46.52	-11.37
7	L1	0.6921	40.96	QP	10.03	50.99	56.00	-5.01
8	L1	0.6921	24.52	AVG	10.03	34.55	46.00	-11.45
9	L1	1.6398	41.45	QP	10.04	51.49	56.00	-4.51
10	L1	1.6398	17.29	AVG	10.04	27.33	46.00	-18.67
11	L1	3.4719	38.73	QP	10.06	48.79	56.00	-7.21
12	L1	3.4719	13.23	AVG	10.06	23.29	46.00	-22.71



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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	L1	0.4620	36.40	QP	10.03	46.43	56.66	-10.23
2	L1	0.4620	13.98	AVG	10.03	24.01	46.66	-22.65
3	L1	1.1718	28.10	QP	10.03	38.13	56.00	-17.87
4	L1	1.1718	6.21	AVG	10.03	16.24	46.00	-29.76
5	L1	2.1975	25.24	QP	10.04	35.28	56.00	-20.72
6	L1	2.1975	3.84	AVG	10.04	13.88	46.00	-32.12
7	L1	2.8137	24.90	QP	10.05	34.95	56.00	-21.05
8	L1	2.8137	5.26	AVG	10.05	15.31	46.00	-30.69
9	L1	14.2905	24.70	QP	10.21	34.91	60.00	-25.09
10	L1	14.2905	7.19	AVG	10.21	17.40	50.00	-32.60
11	L1	21.0843	19.66	QP	10.32	29.98	60.00	-30.02
12	L1	21.0843	6.73	AVG	10.32	17.05	50.00	-32.95



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# 6.2 Radiated Emissions

Temperature	25 °C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	August 08, 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 spet the level of any unwanted emission the fundamental emission. The tight edges	<b>&gt;</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  Support Units  Turn Table  Ground Plane  Test Receiver					
Procedure	<ol> <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> <li>Vertical or horizontal polarization (whichever gave the higher emission level</li> </ol> </li> </ol>					



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		over a full rotation of the EUT) was chosen.
1	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. The res	solution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120 kH	z for Quasiy Peak detection at frequency below 1GHz.
	4. The res	olution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwi	dth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.	
	The re	esolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	bandw	vidth with Peak detection for Average Measurement as below at frequency
	above	1GHz.
	■ 1 kH	Hz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. Steps 2	2 and 3 were repeated for the next frequency point, until all selected frequency
	points	were measured.
Remark		
Result	Pass	Fail
Test Data	Yes	N/A
Test Plot	Yes (See belo	w) $\square$ N/A

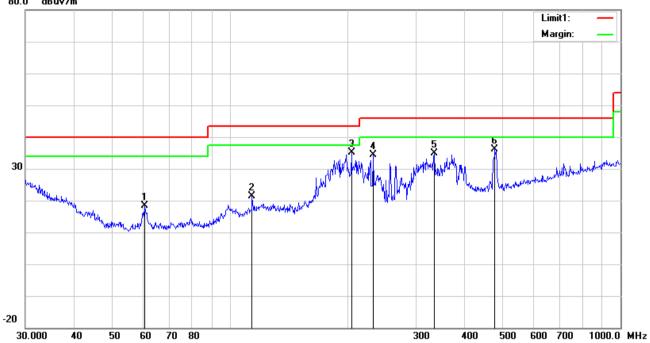


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Test Mode : USB Mode

#### Below 1GHz





#### Test Data

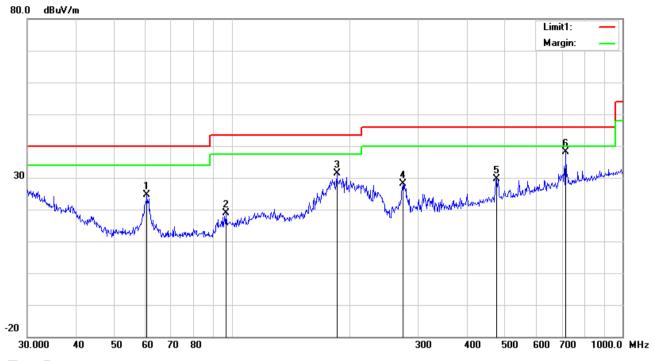
## Horizontal Polarity Plot @3m

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	60.7044	32.78	peak	7.34	22.41	0.77	18.48	40.00	-21.52	100	68
2	Н	114.1138	29.71	peak	12.87	22.35	1.17	21.40	43.50	-22.10	200	232
3	Н	204.9551	43.94	peak	12.03	22.37	1.56	35.16	43.50	-8.34	100	254
4	Н	233.3487	43.36	peak	11.63	22.32	1.65	34.32	46.00	-11.68	100	90
5	Н	333.6867	40.91	peak	14.31	22.20	1.96	34.98	46.00	-11.02	100	74
6	Н	477.1694	38.35	peak	17.24	21.86	2.29	36.02	46.00	-9.98	100	206



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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	60.7044	38.85	peak	7.34	22.41	0.77	24.55	40.00	-15.45	100	311
2	٧	96.7749	30.53	peak	9.63	22.32	1.04	18.88	43.50	-24.62	100	168
3	V	185.7882	40.89	peak	11.32	22.29	1.46	31.38	43.50	-12.12	100	137
4	V	274.1939	36.17	peak	12.46	22.29	1.74	28.08	46.00	-17.92	100	328
5	٧	475.4991	32.02	peak	17.21	21.86	2.28	29.65	46.00	-16.35	100	164
6	V	714.1734	36.44	peak	20.37	21.33	2.63	38.11	46.00	-7.89	100	350



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#### Above 1GHz

Frequency	Read_level	A =! 4b	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1412.3	67.53	168	100	V	-18.97	48.56	74	-25.44	PK
1987.5	62.5	248	100	V	-15.25	47.25	74	-26.75	PK
2234.6	59.66	137	100	V	-14.35	45.31	74	-28.69	PK
1654.9	67.52	62	100	Н	-17.64	49.88	74	-24.12	PK
2035.6	59.54	150	100	Н	-14.39	45.15	74	-28.85	PK
2481.2	62.9	227	100	Н	-13.7	49.2	74	-24.8	PK

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

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 Emis	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	<u>&lt;</u>			
Stabilization Network	LI-125A	191100	09/24/2010	09/23/2017	•			
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	<b>V</b>			
Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	1			
ISN	ISN T800	34373	09/24/2016	09/23/2017				
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<u>&lt;</u>			
Radiated Emissions								
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<u>&lt;</u>			
OPT 010 AMPLIFIER	8447E	2727A02430	08/31/2016	08/30/2017	<u>&lt;</u>			
(0.1-1300MHz)	0441⊑	2121A02430	06/31/2010	06/30/2017	1			
Microwave Preamplifier	0440D	2009 4 02 4 02	03/23/2017	02/22/2040	<u>&lt;</u>			
(1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018				
Bilog Antenna	JB6	A110712	09/20/2016	09/19/2017	<b>V</b>			
(30MHz~6GHz)	JDO	A110/12	03/20/2016	09/19/2017	•			
Double Ridge Horn	AH-118	71259	09/23/2016	09/22/2017	<u>&lt;</u>			
Antenna	АП-110	71259	09/23/2010	03/22/2017	Į.			



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## Annex B. EUT And Test Setup Photographs

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





Adapter - Lable 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** 



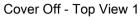
**EUT - Right View** 





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





Cover Off - Top View 2



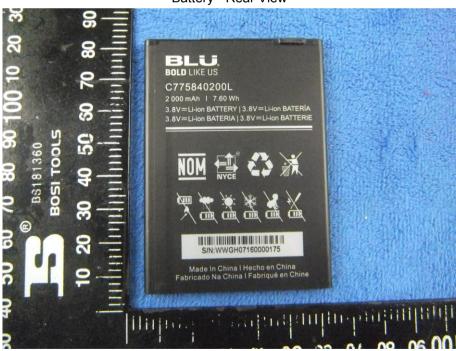


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Battery - Front View



Battery - Rear View



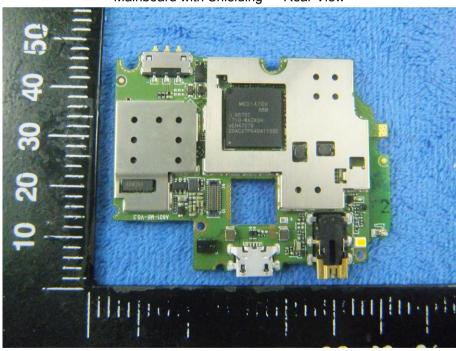


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Mainboard with Shielding - Front View



Mainboard with Shielding - Rear View





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Mainboard without Shielding - Front View



Mainboard without Shielding - Rear View





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LCD - Front View



LCD - Rear View





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



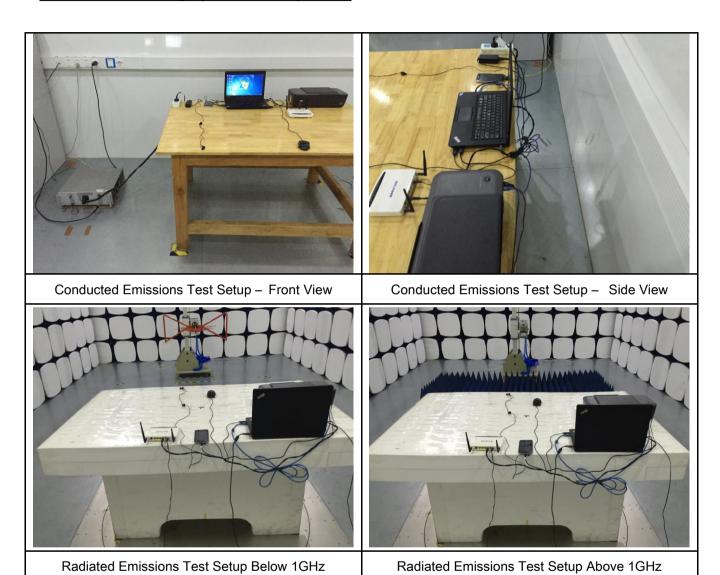
WIFI/BT/BLE/GPS - Antenna View





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

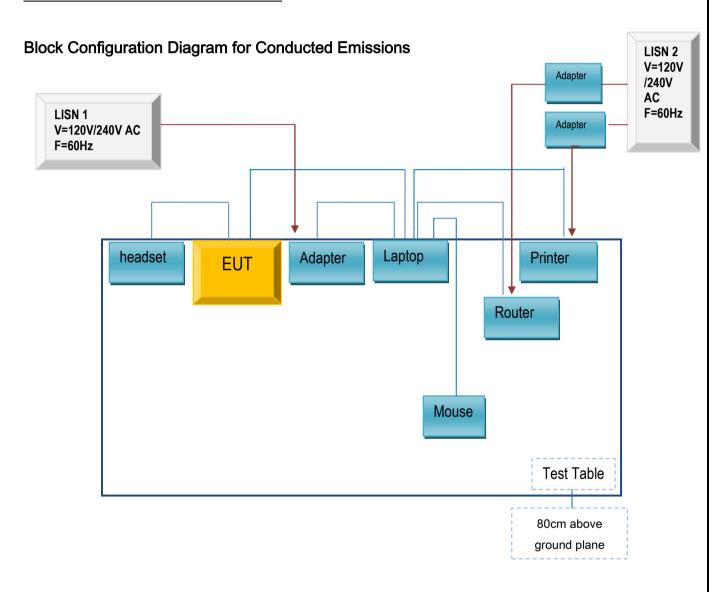




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## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

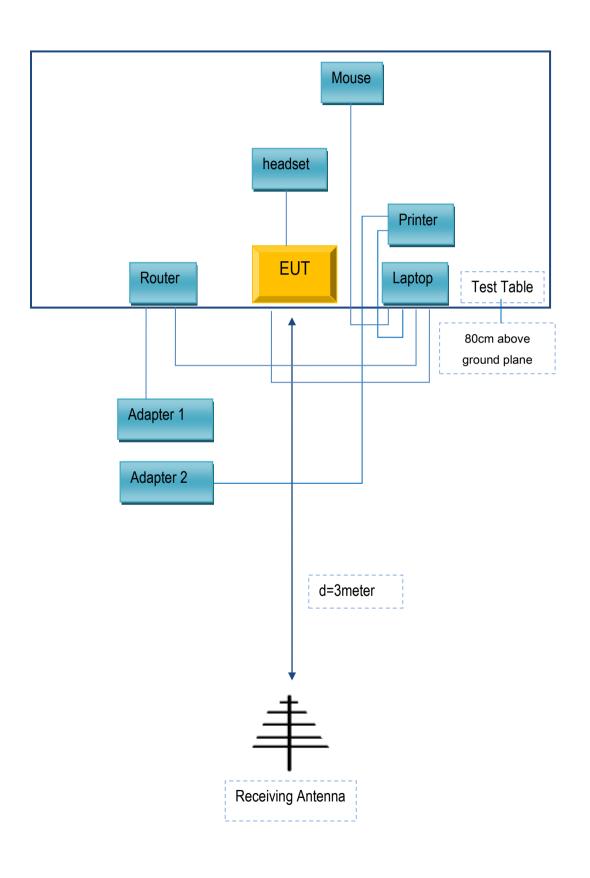
#### Annex C.ii. TEST SET UP BLOCK





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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	HS330	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
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



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# Annex E. DECLARATION OF SIMILARITY

N/A