EMC TEST REPORT



Report No.: 17070412-FCC-E
Supersede Report No: N/A

Applicant	PCD, LLC		
Product Name	3G Feature Phone		
Model No.	PH201Q		
Serial No.	N/A		
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014		
Test Date	June 13 to June 29, 2017		
Issue Date	June 30, 2017		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did not comply with the specification			
mais.	He David Huang		
Evans H Test Engir	436		

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



Test Report	17070412-FCC-E
Page	2 of 37

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



Test Report	17070412-FCC-E
Page	3 of 37

This page has been left blank intentionally.



Test Report	17070412-FCC-E
Page	4 of 37

CONTENTS

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5.	TEST SUMMARY	8
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	. 10
6.1	AC POWER LINE CONDUCTED EMISSIONS	. 10
6.2	RADIATED EMISSIONS	. 16
ANI	NEX A. TEST INSTRUMENT	.21
ANI	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	. 22
ANI	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	. 33
INA	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	. 36
INA	NEX E. DECLARATION OF SIMILARITY	.37



Test Report	17070412-FCC-E
Page	5 of 37

1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070412-FCC-E	NONE	Original	June 30, 2017

2. Customer information

Applicant Name	PCD, LLC	
Applicant Add	1500 Tradeport Drive, Suite A, Orlando, Florida, United States, 32824	
Manufacturer	Shenzhen Haierhea Telecom Co.,Ltd.	
Manufacturer Add	Room 418,Block M-3,Middle of Hi-Tech Park,Nanshan,Shenzhen,China 518057	

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		



Test Report	17070412-FCC-E
Page	6 of 37

4. Equipment under Test (EUT) Information

Description of EUT:	3G Feature Phone

Main Model: PH201Q

Serial Model: N/A

GSM850: -3dBi

PCS1900: -3dBi

Antenna Gain: UMTS-FDD Band V: -3dBi

UMTS-FDD Band II: -3dBi

Bluetooth: -1dBi

Antenna Type:

GSM: PIFA antenna

Adapter:

Model: PH201Q

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

Input Power: Output: DC 5.0V, 500mA

Battery:

Model: PH201Q

Spec: 3.7V,600mAh,2.22Wh

Equipment Category: JBP

GSM / GPRS: GMSK

Type of Modulation: EGPRS: GMSK

UMTS-FDD: QPSK

Bluetooth: GFSK, π /4DQPSK, 8DPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

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

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

Bluetooth: 2402-2480 MHz

Number of Channels: GSM 850: 124CH



Test Report	17070412-FCC-E
Page	7 of 37

PCS1900: 299CH

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

Bluetooth: 79CH

Port: USB Port, Earphone Port

Trade Name : N/A

FCC ID: 2ALJJPH201Q

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

Date EUT received: June 12, 2017

Test Date(s): June 13 to June 29, 2017



Test Report	17070412-FCC-E
Page	8 of 37

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



Test Report	17070412-FCC-E
Page	9 of 37

Measurement Uncertainty

Parameter	Uncertainty	
AC Power Line Conducted Emissions	±3.11dB	
(150kHz~30MHz)	10.1100	
Radiated Emission(30MHz~1GHz)	±5.12dB	
Radiated Emission(1GHz~6GHz)	±5.34dB	



Test Report	17070412-FCC-E
Page	10 of 37

6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	22 °C	
Relative Humidity	55%	
Atmospheric Pressure	1013mbar	
Test date :	June 13, 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 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.		\	
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	t Setup				
	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	 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. The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains. 				



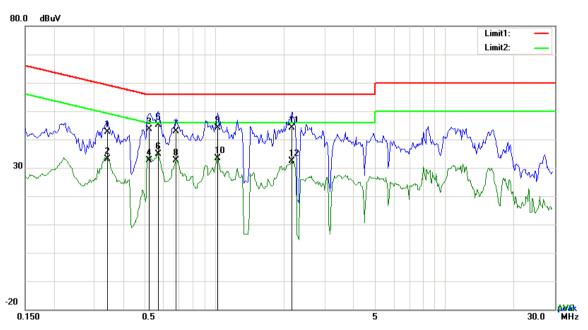
Test Report	17070412-FCC-E
Page	11 of 37

	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	
INGILIAIN	
Result	Pass Fail
_	_

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



Test Report	17070412-FCC-E
Page	12 of 37



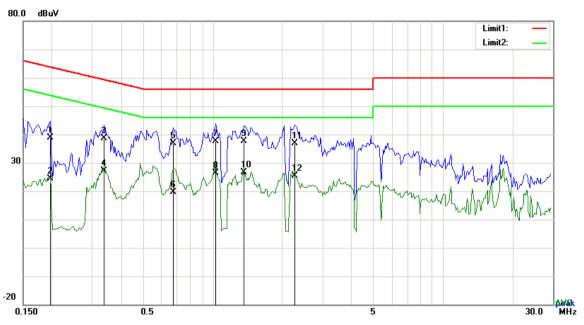
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.3411	32.51	QP	10.03	42.54	59.18	-16.64
2	L1	0.3411	23.05	AVG	10.03	33.08	49.18	-16.10
3	L1	0.5205	33.65	QP	10.03	43.68	56.00	-12.32
4	L1	0.5205	22.49	AVG	10.03	32.52	46.00	-13.48
5	L1	0.5673	35.14	QP	10.03	45.17	56.00	-10.83
6	L1	0.5673	24.88	AVG	10.03	34.91	46.00	-11.09
7	L1	0.6804	32.80	QP	10.03	42.83	56.00	-13.17
8	L1	0.6804	22.70	AVG	10.03	32.73	46.00	-13.27
9	L1	1.0275	34.13	QP	10.03	44.16	56.00	-11.84
10	L1	1.0275	23.33	AVG	10.03	33.36	46.00	-12.64
11	L1	2.1663	34.18	QP	10.04	44.22	56.00	-11.78
12	L1	2.1663	22.29	AVG	10.04	32.33	46.00	-13.67



Test Report	17070412-FCC-E
Page	13 of 37



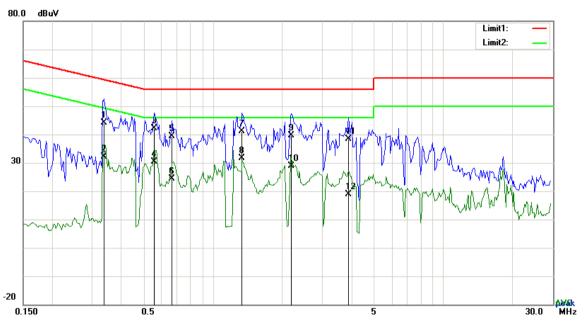
Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1968	28.96	QP	10.02	38.98	63.74	-24.76
2	N	0.1968	14.24	AVG	10.02	24.26	53.74	-29.48
3	N	0.3372	28.59	QP	10.02	38.61	59.27	-20.66
4	N	0.3372	17.17	AVG	10.02	27.19	49.27	-22.08
5	N	0.6726	26.91	QP	10.02	36.93	56.00	-19.07
6	N	0.6726	9.58	AVG	10.02	19.60	46.00	-26.40
7	N	1.0275	27.61	QP	10.03	37.64	56.00	-18.36
8	N	1.0275	16.28	AVG	10.03	26.31	46.00	-19.69
9	N	1.3629	27.55	QP	10.03	37.58	56.00	-18.42
10	N	1.3629	16.50	AVG	10.03	26.53	46.00	-19.47
11	N	2.2677	26.87	QP	10.04	36.91	56.00	-19.09
12	N	2.2677	15.39	AVG	10.04	25.43	46.00	-20.57



Test Report	17070412-FCC-E
Page	14 of 37



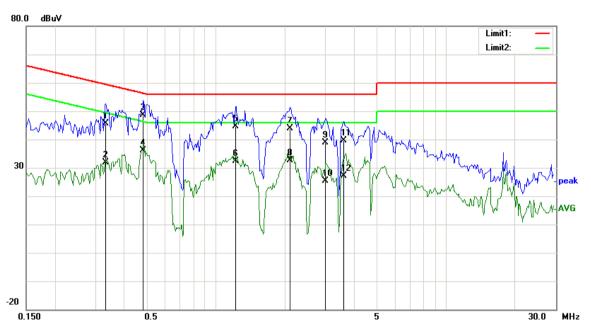
Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.3372	34.09	QP	10.03	44.12	59.27	-15.15
2	L1	0.3372	22.12	AVG	10.03	32.15	49.27	-17.12
3	L1	0.5556	32.13	QP	10.03	42.16	56.00	-13.84
4	L1	0.5556	20.23	AVG	10.03	30.26	46.00	-15.74
5	L1	0.6648	29.44	QP	10.03	39.47	56.00	-16.53
6	L1	0.6648	14.28	AVG	10.03	24.31	46.00	-21.69
7	L1	1.3395	31.20	QP	10.03	41.23	56.00	-14.77
8	L1	1.3395	21.62	AVG	10.03	31.65	46.00	-14.35
9	L1	2.1975	29.50	QP	10.04	39.54	56.00	-16.46
10	L1	2.1975	18.72	AVG	10.04	28.76	46.00	-17.24
11	L1	3.8892	28.39	QP	10.07	38.46	56.00	-17.54
12	L1	3.8892	8.88	AVG	10.07	18.95	46.00	-27.05



Test Report	17070412-FCC-E
Page	15 of 37



Test Data

Phase Neutral Plot at 240Vac, 60Hz

	1 11000 11000101 101 01 2 10 100, 001 12							
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.3333	35.56	QP	10.02	45.58	59.37	-13.79
2	N	0.3333	21.79	AVG	10.02	31.81	49.37	-17.56
3	N	0.4854	38.57	QP	10.02	48.59	56.25	-7.66
4	N	0.4854	26.23	AVG	10.02	36.25	46.25	-10.00
5	N	1.2225	34.54	QP	10.03	44.57	56.00	-11.43
6	N	1.2225	22.34	AVG	10.03	32.37	46.00	-13.63
7	N	2.1078	33.96	QP	10.04	44.00	56.00	-12.00
8	N	2.1078	22.61	AVG	10.04	32.65	46.00	-13.35
9	N	3.0078	28.80	QP	10.05	38.85	56.00	-17.15
10	Ν	3.0078	15.39	AVG	10.05	25.44	46.00	-20.56
11	N	3.5928	29.56	QP	10.06	39.62	56.00	-16.38
12	N	3.5928	17.15	AVG	10.06	27.21	46.00	-18.79



Test Report	17070412-FCC-E
Page	16 of 37

6.2 Radiated Emissions

Temperature	24 °C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	June 19, 2017
Tested By:	Evans He

Requirement(s):

Spec	Item	Requirement		Applicable	
47CFR§15. 109(d)	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spethe level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz) 30 - 88 88 - 216 216 960	o-frequency devices shall not cified in the following table and s shall not exceed the level of ter limit applies at the band Field Strength (µV/m) 100 150 200	▼	
Test Setup	Above 960 Ant. Tower Variable Support Units Ground Plane Test Receiver				
Procedure	 The EUT was switched on and allowed to warm up to its normal operating condition. 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: Vertical or horizontal polarization (whichever gave the higher emission level 				



Test Report	17070412-FCC-E
Page	17 of 37

		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. The	e resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120	kHz for Quasiy Peak detection at frequency below 1GHz.
	4. The	resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bar	ndwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1G	Hz.
	Th	ne resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	ba	indwidth with Peak detection for Average Measurement as below at frequency
	ab	ove 1GHz.
	•	1 kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. Ste	ps 2 and 3 were repeated for the next frequency point, until all selected frequency
	poi	nts were measured.
Remark		
Remark		
Result	Pass	Fail
	<i>i</i>	
Test Data	Yes	N/A
Test Plot	Yes (See b	pelow)



Test Report	17070412-FCC-E
Page	18 of 37

Below 1GHz



Test Data

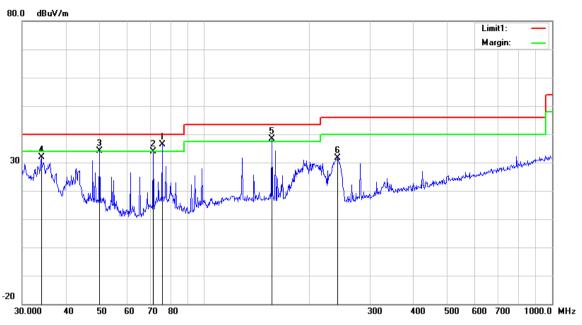
Horizontal Polarity Plot @3m

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	34.50	peak	18.29	22.26	0.73	31.26	40.00	-8.74	100	257
2	Н	36.0007	35.75	peak	16.82	22.26	0.77	31.08	40.00	-8.92	100	319
3	Н	42.8998	37.92	peak	11.99	22.29	0.77	28.39	40.00	-11.61	100	354
4	Н	79.8003	39.09	peak	7.60	22.42	1.05	25.32	40.00	-14.68	100	36
5	Н	242.5253	45.75	peak	11.50	22.30	1.68	36.63	46.00	-9.37	100	265
6	Н	194.4534	42.49	peak	11.79	22.34	1.54	33.48	43.50	-10.02	100	142



Test Report	17070412-FCC-E
Page	19 of 37

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	75.7114	50.17	QP	7.69	22.40	0.97	36.43	40.00	-3.57	100	163
2	٧	71.3300	47.63	peak	7.77	22.39	0.97	33.98	40.00	-6.02	100	25
3	٧	50.0566	47.39	QP	8.39	22.38	0.80	34.20	40.00	-5.80	100	83
4	٧	34.0365	35.03	peak	18.29	22.26	0.73	31.79	40.00	-8.21	100	106
5	٧	156.4578	46.73	QP	12.60	22.29	1.37	38.41	43.50	-5.09	100	209
6	V	241.6763	40.65	peak	11.52	22.30	1.67	31.54	46.00	-14.46	200	132



Test Report	17070412-FCC-E
Page	20 of 37

Above 1GHz

Frequency	Read_level	Azimuth	Height	Polarity	Factors	Level	Limit	Margin	Detector
(MHz)	(dBµV/m)		(cm)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(PK/AV)
1242.099	68.58	142	100	V	-17.79	50.79	74	-23.21	PK
2022.15	66.02	56	200	V	-14.38	51.64	74	-22.36	PK
2919.675	65.64	307	100	V	-12.67	52.97	74	-21.03	PK
1310.693	68.75	118	100	Н	-17.62	51.13	74	-22.87	PK
2393.093	65.25	249	100	Н	-13.83	51.42	74	-22.58	PK
2977.791	60.04	153	100	Н	-12.52	47.52	74	-26.48	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.



Test Report	17070412-FCC-E
Page	21 of 37

Annex A. TEST INSTRUMENT

Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted Emis	ssions				
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	₹
Line Impedance Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	<u><</u>
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	(
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	\(\z\)
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	T



Test Report	17070412-FCC-E
Page	22 of 37

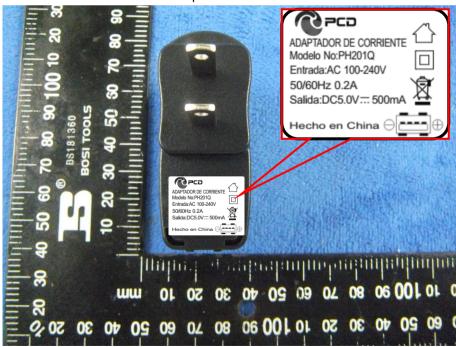
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Front View





Test Report	17070412-FCC-E
Page	23 of 37

EUT - Front View



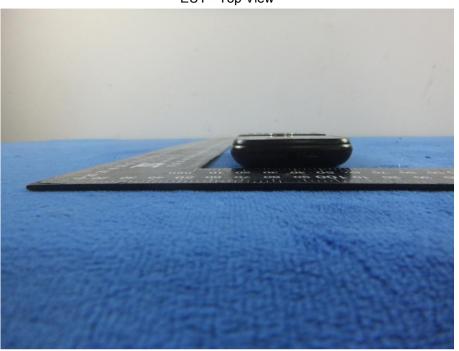
EUT - Rear View



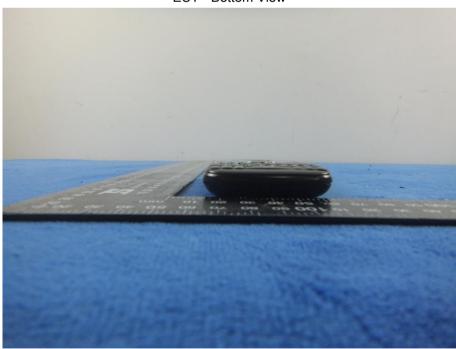


Test Report	17070412-FCC-E
Page	24 of 37

EUT - Top View



EUT - Bottom View



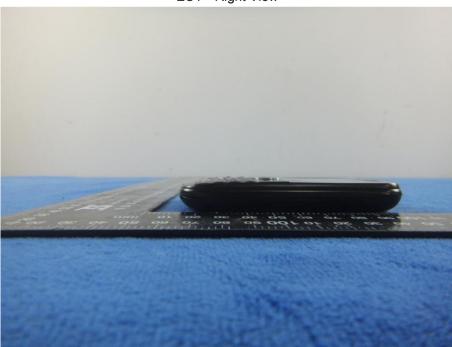


Test Report	17070412-FCC-E
Page	25 of 37

EUT - Left View



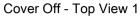
EUT - Right View





Test Report	17070412-FCC-E
Page	26 of 37

Photograph: EUT Internal Photo Annex B.ii.





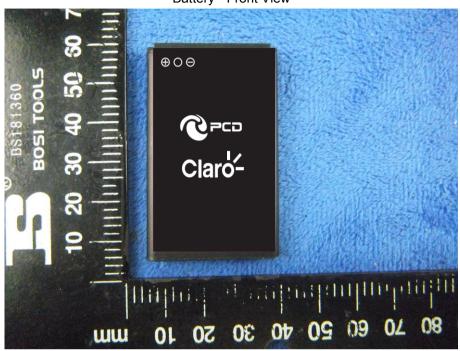
Cover Off - Top View 2





Test Report	17070412-FCC-E	
Page	27 of 37	

Battery - Front View



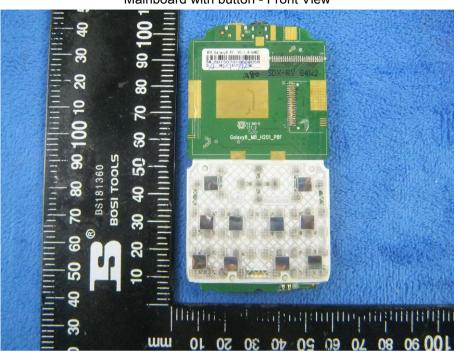
Battery - Rear View



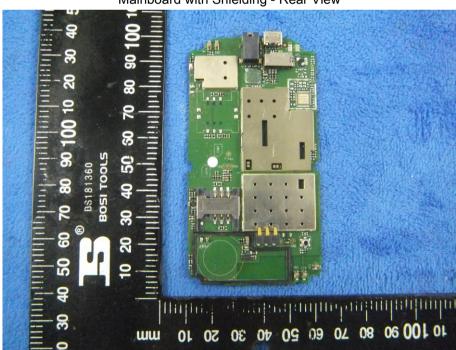


Test Report	17070412-FCC-E
Page	28 of 37

Mainboard with button - Front View



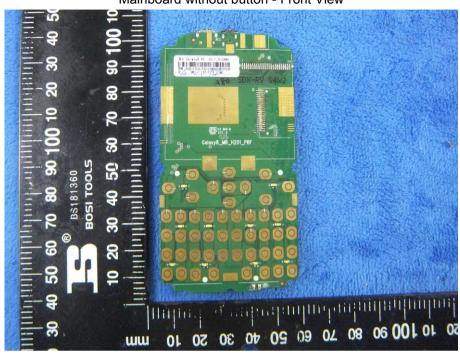
Mainboard with Shielding - Rear View



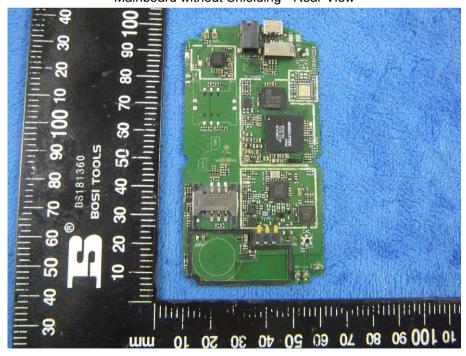


Test Report	17070412-FCC-E
Page	29 of 37

Mainboard without button - Front View



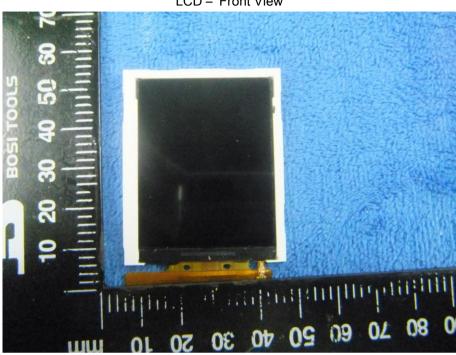
Mainboard without Shielding - Rear View



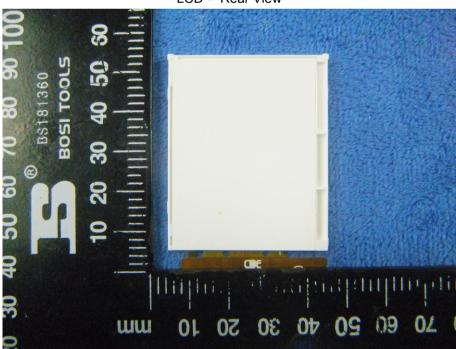


Test Report	17070412-FCC-E	
Page	30 of 37	

LCD - Front View



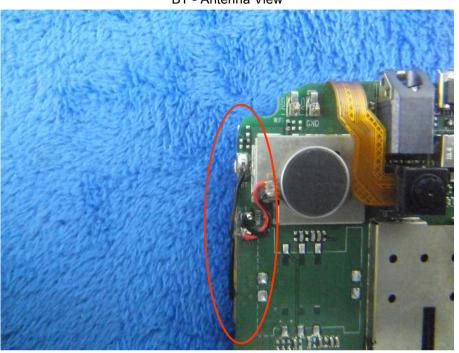
LCD - Rear View





Test Report	17070412-FCC-E
Page	31 of 37

BT - Antenna View



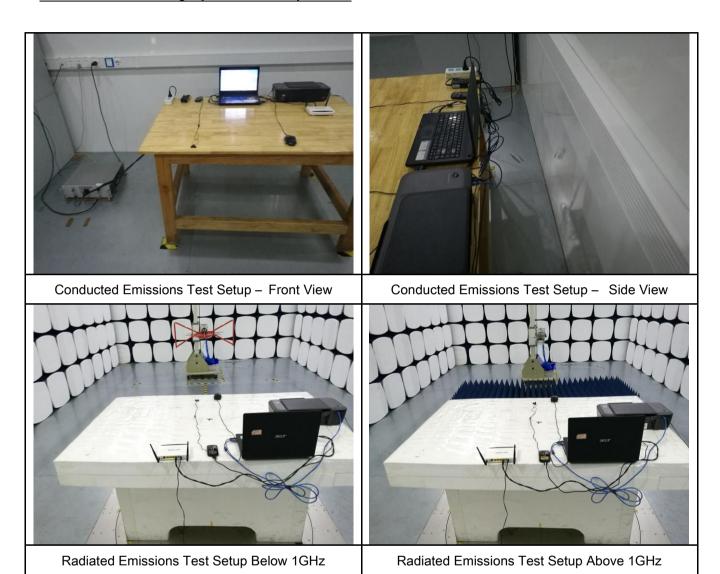
GSM/WCDMA - Antenna View





Test Report	17070412-FCC-E	
Page	32 of 37	

Annex B.iii. Photograph: Test Setup Photo

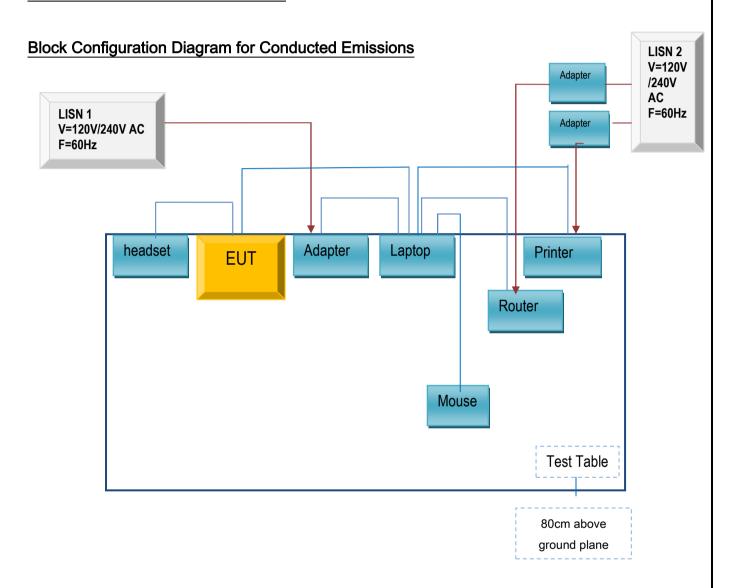




Test Report	17070412-FCC-E	
Page	33 of 37	

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

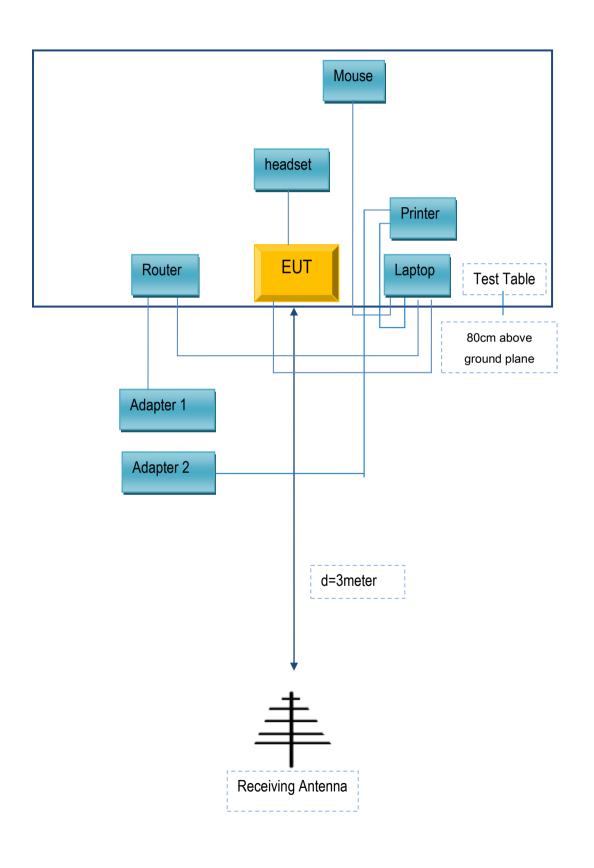
Annex C.ii. TEST SET UP BLOCK





Test Report	17070412-FCC-E
Page	34 of 37

Block Configuration Diagram for Radiated Emissions





Test Report	17070412-FCC-E
Page	35 of 37

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
PCD, LLC	headset	PH201Q	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



Test Report	17070412-FCC-E
Page	36 of 37

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

Please see the attachment



Test Report	17070412-FCC-E
Page	37 of 37

Annex E. DECLARATION OF SIMILARITY

N/A