# EMC TEST REPORT



Report No.: 17070225-FCC-E Supersede Report No: N/A

Applicant	Shenzhen Konka Telecommunications Technology Co., Ltd.		
Product Name	Smart Phone		
Model No.	ADR9		
Serial No.	N/A		
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014		
Test Date	March 29 to April 16, 2017		
Issue Date	April 17, 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			

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Test result presented in this test report is applicable to the tested sample only

#### Issued by:

#### SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Test Report	17070225-FCC-E	
Page	2 of 39	

# **Laboratories Introduction**

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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	17070225-FCC-E
Page	3 of 39

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Test Report	17070225-FCC-E
Page	4 of 39

# **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
INA	NEX A. TEST INSTRUMENT	. 21
INA	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	. 22
INA	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	. 35
INA	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	. 38
INA	NEX E. DECLARATION OF SIMILARITY	. 39



Test Report	17070225-FCC-E
Page	5 of 39

# 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070225-FCC-E	NONE	Original	April 17, 2017

# 2. Customer information

Applicant Name	Shenzhen Konka Telecommunications Technology Co., Ltd.	
Applicant Add	No.9008 Shennan Road, Overseas Chinese Town, ShenZhen, Guangdong, China	
Manufacturer	Shenzhen Konka Telecommunications Technology Co., Ltd.	
Manufacturer Add	No.9008 Shennan Road, Overseas Chinese Town, ShenZhen, Guangdong, China	

# 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	17070225-FCC-E
Page	6 of 39

# 4. Equipment under Test (EUT) Information

Description of EUT:	Smart Phone

Main Model: ADR9

Serial Model: N/A

GSM850: -0.43dBi PCS1900: 0.79dBi

UMTS-FDD Band V: -0.43dBi

Antenna Gain: UMTS-FDD Band II: 0.79dBi

LTE Band IV: 0.89 dBi

Bluetooth/BLE/WiFi: -0.56dBi

GPS: 0.79dBi

Antenna Type: PIFA antenna

Adapter:

Model: HJ-050100-AR

Input: AC100-240V~50/60Hz,0.15A

Output: DC 5.0V,1.0A

Input Power: Battery:

Model: KLB250P373

Spec: 3.8V,2500mAh,9.5Wh

Maximum chargeable voltage: 4.35V

Equipment Category : JBP

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

Type of Modulation: LTE Band: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



Test Report	17070225-FCC-E
Page	7 of 39

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

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies):

LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX: 2110.7 ~ 2154.3 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 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: ADMIRAL

FCC ID: UT3ADR9

Date EUT received: March 28, 2017

Test Date(s): March 29 to April 16, 2017



Test Report	17070225-FCC-E
Page	8 of 39

# 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	17070225-FCC-E
Page	9 of 39

# **Measurement Uncertainty**

Parameter	Uncertainty	
AC Power Line Conducted Emissions	±3.71dB	
(150kHz~30MHz)		
Radiated Emission(30MHz~1GHz)	±5.12dB	
Radiated Emission(1GHz~6GHz)	±5.34dB	



Test Report	17070225-FCC-E
Page	10 of 39

# 6. Measurements, Examination And Derived Results

# 6.1 AC Power Line Conducted Emissions

Temperature	25 °C	
Relative Humidity	52%	
Atmospheric Pressure	1028mbar	
Test date :	March 28, 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  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 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>				



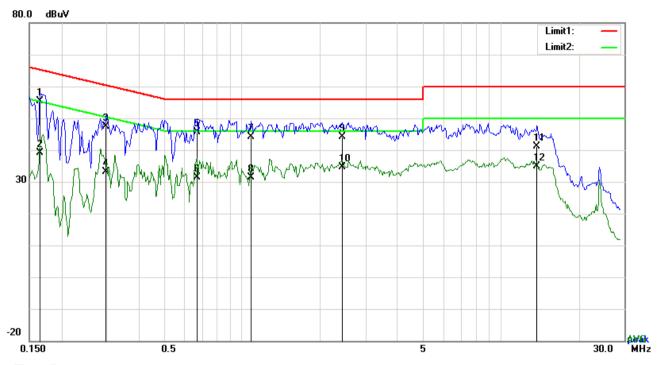
Test Report	17070225-FCC-E
Page	11 of 39

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



Test Report	17070225-FCC-E
Page	12 of 39



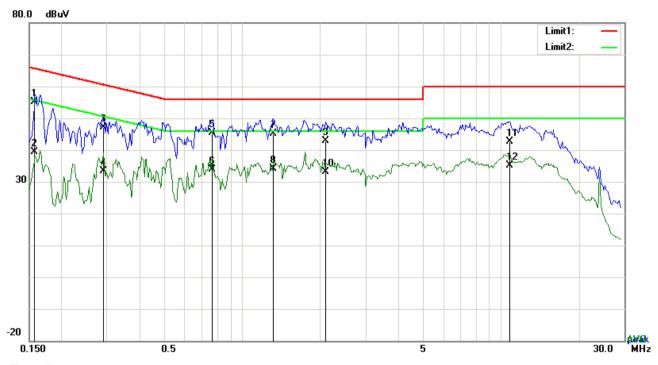
## Test Data

## Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1656	45.25	QP	10.03	55.28	65.18	-9.90
2	L1	0.1656	29.01	AVG	10.03	39.04	55.18	-16.14
3	L1	0.2982	37.30	QP	10.03	47.33	60.29	-12.96
4	L1	0.2982	23.06	AVG	10.03	33.09	50.29	-17.20
5	L1	0.6687	35.64	QP	10.03	45.67	56.00	-10.33
6	L1	0.6687	21.39	AVG	10.03	31.42	46.00	-14.58
7	L1	1.0821	34.08	QP	10.03	44.11	56.00	-11.89
8	L1	1.0821	21.43	AVG	10.03	31.46	46.00	-14.54
9	L1	2.4393	34.04	QP	10.05	44.09	56.00	-11.91
10	L1	2.4393	24.69	AVG	10.05	34.74	46.00	-11.26
11	L1	13.8264	31.02	QP	10.21	41.23	60.00	-18.77
12	L1	13.8264	24.59	AVG	10.21	34.80	50.00	-15.20



Test Report	17070225-FCC-E
Page	13 of 39



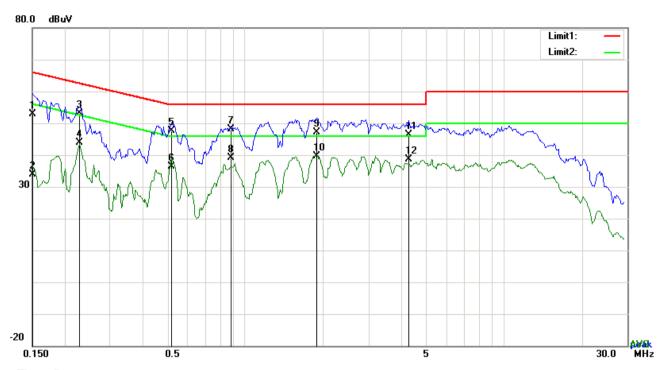
## Test Data

## Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1578	45.04	QP	10.02	55.06	65.58	-10.52
2	Ν	0.1578	29.34	AVG	10.02	39.36	55.58	-16.22
3	Ν	0.2904	37.22	QP	10.02	47.24	60.51	-13.27
4	N	0.2904	23.38	AVG	10.02	33.40	50.51	-17.11
5	N	0.7662	35.41	QP	10.03	45.44	56.00	-10.56
6	Ν	0.7662	23.73	AVG	10.03	33.76	46.00	-12.24
7	Ζ	1.3200	35.20	QP	10.03	45.23	56.00	-10.77
8	Ζ	1.3200	24.01	AVG	10.03	34.04	46.00	-11.96
9	Ν	2.1039	32.77	QP	10.04	42.81	56.00	-13.19
10	Ν	2.1039	23.19	AVG	10.04	33.23	46.00	-12.77
11	Ν	10.8273	32.47	QP	10.15	42.62	60.00	-17.38
12	N	10.8273	24.92	AVG	10.15	35.07	50.00	-14.93



Test Report	17070225-FCC-E
Page	14 of 39



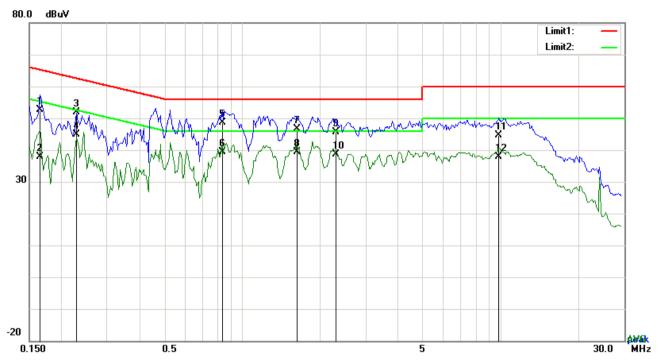
## Test Data

## Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1500	42.95	QP	10.03	52.98	66.00	-13.02
2	L1	0.1500	23.97	AVG	10.03	34.00	56.00	-22.00
3	L1	0.2280	43.12	QP	10.03	53.15	62.52	-9.37
4	L1	0.2280	33.79	AVG	10.03	43.82	52.52	-8.70
5	L1	0.5205	37.65	QP	10.03	47.68	56.00	-8.32
6	L1	0.5205	26.42	AVG	10.03	36.45	46.00	-9.55
7	L1	0.8803	38.09	QP	10.03	48.12	56.00	-7.88
8	L1	0.8803	29.15	AVG	10.03	39.18	46.00	-6.82
9	L1	1.8933	37.02	QP	10.04	47.06	56.00	-8.94
10	L1	1.8933	29.49	AVG	10.04	39.53	46.00	-6.47
11	L1	4.2831	36.20	QP	10.07	46.27	56.00	-9.73
12	L1	4.2831	28.48	AVG	10.07	38.55	46.00	-7.45



Test Report	17070225-FCC-E
Page	15 of 39



## 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	0.1656	42.71	QP	10.02	52.73	65.18	-12.45
2	Ν	0.1656	27.78	AVG	10.02	37.80	55.18	-17.38
3	Ν	0.2280	41.86	QP	10.02	51.88	62.52	-10.64
4	N	0.2280	34.74	AVG	10.02	44.76	52.52	-7.76
5	Ν	0.8364	38.48	QP	10.03	48.51	56.00	-7.49
6	N	0.8364	29.31	AVG	10.03	39.34	46.00	-6.66
7	Ν	1.6281	36.54	QP	10.04	46.58	56.00	-9.42
8	Ν	1.6281	29.37	AVG	10.04	39.41	46.00	-6.59
9	Ν	2.2989	35.54	QP	10.04	45.58	56.00	-10.42
10	N	2.2989	28.66	AVG	10.04	38.70	46.00	-7.30
11	Ν	9.8484	34.44	QP	10.14	44.58	60.00	-15.42
12	Ν	9.8484	27.68	AVG	10.14	37.82	50.00	-12.18



Test Report	17070225-FCC-E
Page	16 of 39

# 6.2 Radiated Emissions

Temperature	25 °C
Relative Humidity	52%
Atmospheric Pressure	1028mbar
Test date :	March 28, 2017
Tested By :	Evans He

## Requirement(s):

Spec	Item	tem 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	<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:         <ul> <li>Vertical or horizontal polarization (whichever gave the higher emission level</li> </ul> </li> </ol>					



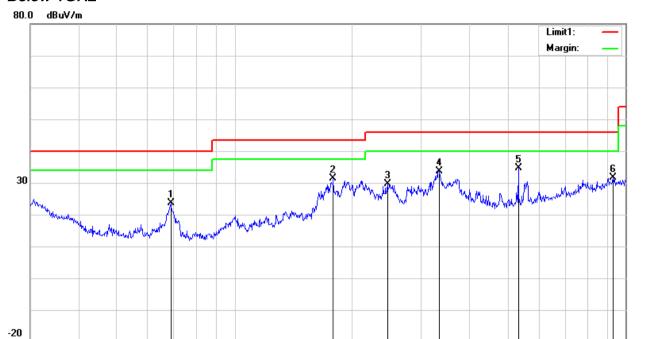
Test Report	17070225-FCC-E
Page	17 of 39

_			
			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 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 reso	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	solution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
		bandw	ridth with Peak detection for Average Measurement as below at frequency
		above	1GHz.
		■ 1 kH	dz (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 v	vere measured.
Remark			
Nemark			
Result	<b>₽</b> Pa	ass	Fail
	7		
Test Data	Yes		N/A
Test Plot	Yes (S	See belo	w) N/A



Test Report	17070225-FCC-E
Page	18 of 39

#### Below 1GHz



## Test Data

30.000

40

50

60 70 80

## Horizontal Polarity Plot @3m

300

400

600 700

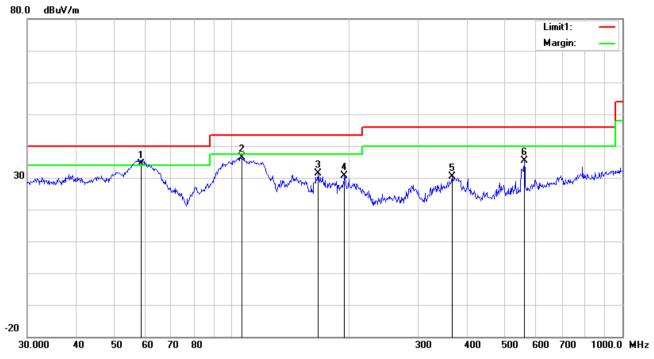
1000.0 MHz

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	68.6310	37.22	peak	7.73	22.38	0.95	23.52	40.00	-16.48	100	213
2	Н	178.7584	41.07	peak	11.10	22.25	1.36	31.28	43.50	-12.22	100	304
3	Н	245.9509	38.69	peak	11.46	22.30	1.69	29.54	46.00	-16.46	100	171
4	Н	333.6867	39.56	peak	14.31	22.20	1.96	33.63	46.00	-12.37	100	284
5	Н	531.9635	35.85	peak	18.15	21.74	2.46	34.72	46.00	-11.28	100	136
6	Н	929.0082	26.70	peak	22.65	20.82	3.13	31.66	46.00	-14.34	100	329



Test Report	17070225-FCC-E
Page	19 of 39

## 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	>	58.6126	48.50	QP	7.45	22.41	0.76	34.30	40.00	-5.70	100	340
2	V	106.0126	46.07	peak	11.45	22.33	1.15	36.34	43.50	-7.16	100	151
3	V	166.6514	40.26	peak	12.07	22.26	1.37	31.44	43.50	-12.06	100	210
4	V	194.4534	39.56	peak	11.79	22.34	1.54	30.55	43.50	-12.95	200	96
5	٧	366.8231	35.54	peak	15.00	22.10	2.03	30.47	46.00	-15.53	100	283
6	٧	560.6928	35.93	peak	18.55	21.67	2.48	35.29	46.00	-10.71	100	144



Test Report	17070225-FCC-E
Page	20 of 39

#### Above 1GHz

Frequency (MHz)	Read_level	Azimuth	Height (cm)	Polarity (H/V)	Level (dBµV/m)	Factors (dB)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV)
1136.72	65.73	93	100	V	48.91	-16.82	74	-25.09	PK
1901.26	70.33	168	100	V	54.62	-15.71	74	-19.38	PK
2601.34	68.81	241	100	V	55.38	-13.43	74	-18.62	PK
1409.51	68.15	305	100	Н	49.26	-18.89	74	-24.74	PK
2718.92	67.28	189	100	Н	53.95	-13.33	74	-20.05	PK
1875.96	71.02	267	100	Н	55.07	-15.95	74	-18.93	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	17070225-FCC-E
Page	21 of 39

# 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	LI-125A	191106	09/24/2016	09/23/2017	₹
Stabilization Network					
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	~
Stabilization Network					
LISN	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	04475	2727402420	00/24/2046	00/20/2047	<u>&lt;</u>
(0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	•
Microwave Preamplifier	0440D	2000 4 02 402	02/22/2047	02/22/2040	<u>&lt;</u>
(1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	•
Bilog Antenna	JB6	A110712	00/20/2046	00/40/2047	<u>&lt;</u>
(30MHz~6GHz)	JDO	ATTUTIZ	09/20/2016	09/19/2017	•
Double Ridge Horn	ALI 110	74250	00/22/2046	00/22/2047	<u>\</u>
Antenna	AH-118	71259	09/23/2016	09/22/2017	



Test Report	17070225-FCC-E
Page	22 of 39

# Annex B. EUT And Test Setup Photographs

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

Whole Package View



Adapter - Front View





Test Report	17070225-FCC-E
Page	23 of 39

**EUT - Front View** 



**EUT - Rear View** 





Test Report	17070225-FCC-E
Page	24 of 39

**EUT - Top View** 



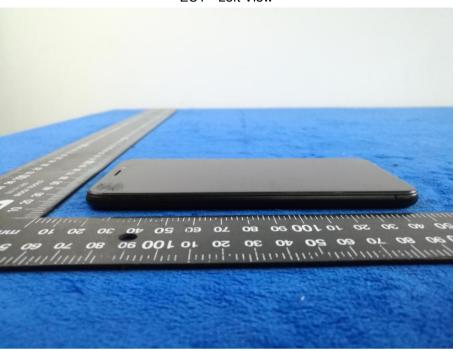
**EUT - Bottom View** 



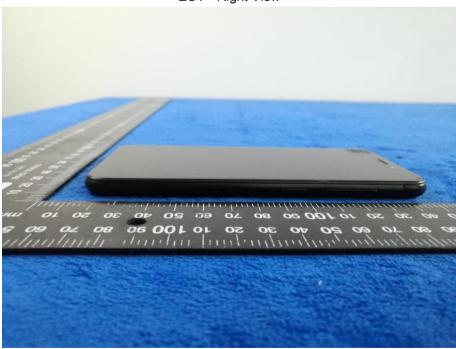


Test Report	17070225-FCC-E
Page	25 of 39

EUT - Left View



EUT - Right View





Test Report	17070225-FCC-E
Page	26 of 39

# Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 2





Test Report	17070225-FCC-E
Page	27 of 39

Battery - Front View



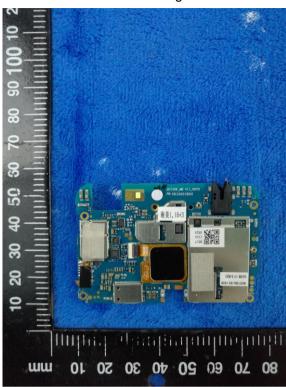
Battery - Rear View





Test Report	17070225-FCC-E
Page	28 of 39

Mainboard with Shielding- Front View



Mainboard with Shielding - Rear View



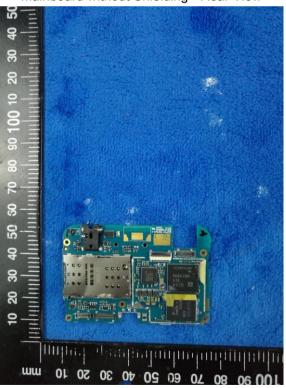


Test Report	17070225-FCC-E
Page	29 of 39

Mainboard without Shielding - Front View



Mainboard without Shielding - Rear View



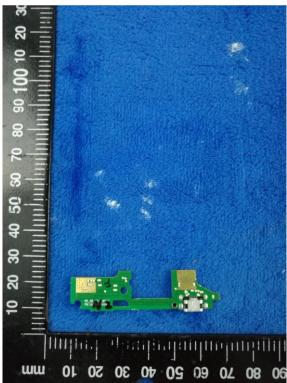


Test Report	17070225-FCC-E
Page	30 of 39

Connected Mainboard - Front View



Connected Mainboard - Rear View



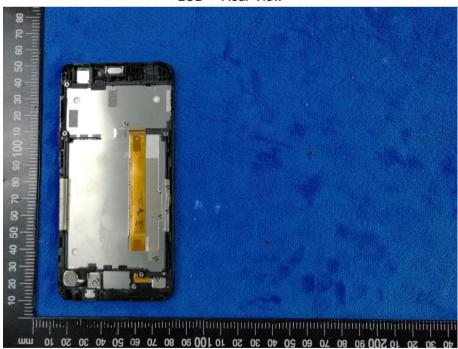


Test Report	17070225-FCC-E
Page	31 of 39

LCD - Front View



LCD - Rear View



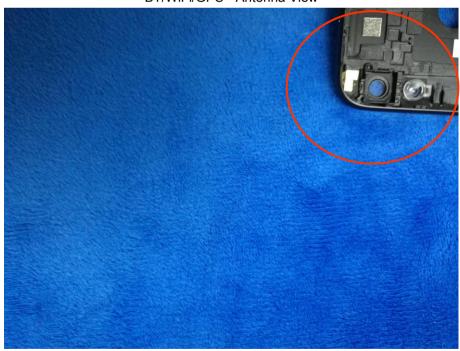


Test Report	17070225-FCC-E
Page	32 of 39

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



BT/WiFi/GPS - Antenna View





Test Report	17070225-FCC-E
Page	33 of 39

LTE - Antenna View



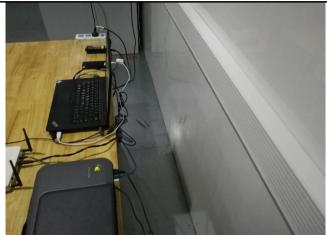


Test Report	17070225-FCC-E
Page	34 of 39

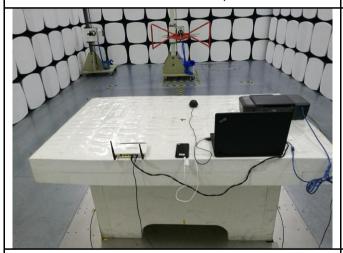
# Annex B.iii. Photograph: Test Setup Photo



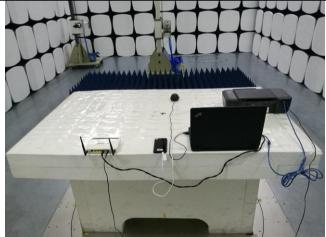
Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



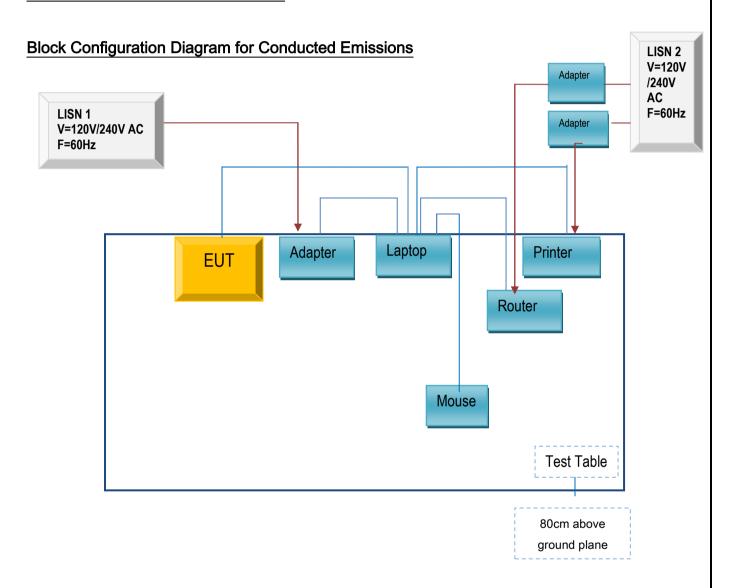
Radiated Emissions Test Setup Above 1GHz



Test Report	17070225-FCC-E
Page	35 of 39

# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

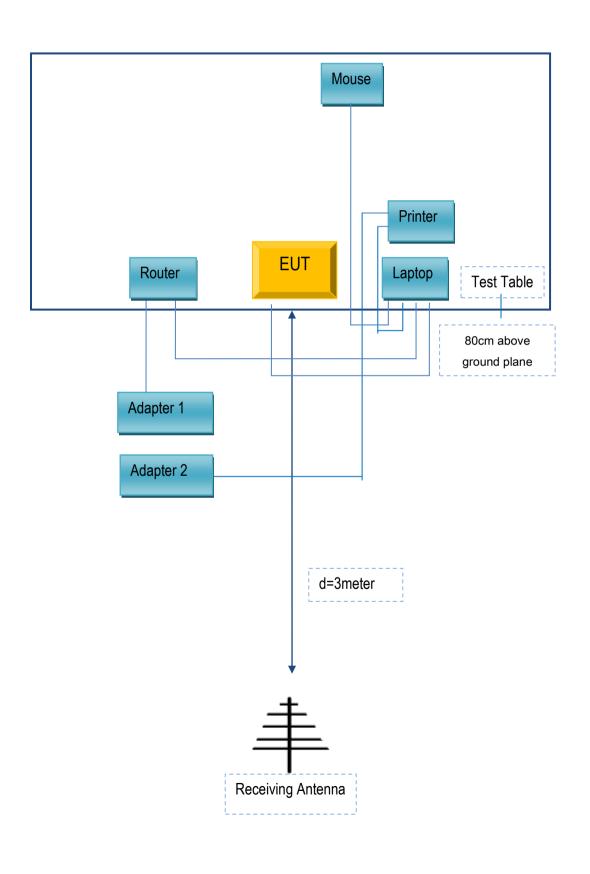
## Annex C.ii. TEST SET UP BLOCK





Test Report	17070225-FCC-E
Page	36 of 39

# **Block Configuration Diagram for Radiated Emissions**





Test Report	17070225-FCC-E
Page	37 of 39

# 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

## 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	17070225-FCC-E	
Page	38 of 39	

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

Please see the attachment



Test Report	17070225-FCC-E	
Page	39 of 39	

# Annex E. DECLARATION OF SIMILARITY

N/A