EMC TEST REPORT



Report No.: 17071364-FCC-E
Supersede Report No: N/A

Applicant	INFINIX MO	OBILITY LIMITED		
Product Name	Mobile phone			
Model No.	X573			
Serial No.	N/A			
Test Standard	FCC Part 1	5 Subpart B Class B:2	2016, ANS	l C63.4: 2014
Test Date	December	06, 2017 to January 1	, 2018	
Issue Date	January 2,	2018		
Test Result	Test Result Pass Fail			
Equipment compl	Equipment complied with the specification			
Equipment did no	t comply witl	n the specification		
mas. He		David Huang		
Evans He Test Engineer		David Huang Checked 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.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

-		
Country/Region	Scope	
USA	EMC, RF/Wireless, SAR, Telecom	
Canada	EMC, RF/Wireless, SAR, Telecom	
Taiwan	EMC, RF, Telecom, SAR, Safety	
Hong Kong	RF/Wireless, SAR, Telecom	
Australia	EMC, RF, Telecom, SAR, Safety	
Korea	EMI, EMS, RF, SAR, Telecom, Safety	
Japan	EMI, RF/Wireless, SAR, Telecom	
Singapore	EMC, RF, SAR, Telecom	
Europe	EMC, RF, SAR, Telecom, Safety	



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17071364-FCC-E	NONE	Original	January 2, 2018

2. Customer information

Applicant Name	INFINIX MOBILITY LIMITED	
Applicant Add	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE,	
	HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG	
	KONG	
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.	
Manufacturer Add	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian	
	District,Shenzhen,Guangdong,China	

3. Test site information

Test Lab A:

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.	535293	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	

Test Lab B:

Lab performing tests	SIEMIC (Nanjing-China) Laboratories	
Lab Address	2-1 Longcang Avenue Yuhua Economic and	
Lab Address	Technology Development Park, Nanjing, China	
FCC Test Site No.	694825	
IC Test Site No.	4842B-1	



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Test Software	EZ_EMC(ver.lcp-03A1)
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Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.



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4. Equipment under Test (EUT) Information

bile phone

X573 Main Model:

N/A Serial Model:

> GSM850: -0.7dBi PCS1900: 1.4dBi

UMTS-FDD Band V: -0.7dBi UMTS-FDD Band IV: 1.4dBi UMTS-FDD Band II: 1.4dBi

Antenna Gain: LTE Band II: 1.4dBi

> LTE Band IV: 1.7dBi LTE Band VII: 1.7dBi Bluetooth/BLE: 1.7dBi

WIFI: 1.7dBi GPS: 1.7dBi

Antenna Type: PIFA Antenna

Adapter:

Model: A88-502000

Input: AC100-240V~50/60Hz,0.35A

Output: DC 5V, 2.0A

Input Power: Battery:

Model: BL-39GX

Spec: 3.85V, 3900mAh/4000mAh, 15.02Wh/15.4Wh

Voltage: 4.4V

Equipment Category: JBP

Type of Modulation:

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

LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK



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BLE: GFSK GPS:BPSK

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 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

RF Operating Frequency (ies):

Number of Channels:

LTE Band II TX: $1850.7 \sim 1909.3 \text{MHz}$; RX: $1930.7 \sim 1989.3 \text{ MHz}$ LTE Band IV TX: $1710.7 \sim 1754.3 \text{ MHz}$; RX: $2110.7 \sim 2154.3 \text{ MHz}$ LTE Band VII TX: $2502.5 \sim 2567.5 \text{ MHz}$; RX: $2622.5 \sim 2687.5 \text{ MHz}$

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

Port: USB Port, Earphone Port

Trade Name : Infinix

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

FCC ID: 2AIZN-X573

Date EUT received: December 05, 2017

Test Date(s): December 06, 2017 to January 1, 2018



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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	50%
Atmospheric Pressure	1008mbar
Test date :	December 08, 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.			>
107		Frequency ranges	-	dBµV)	
		(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 Bocm 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	 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. 				



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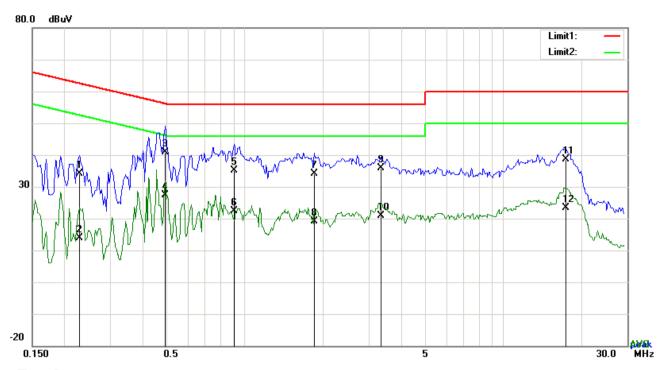
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range using an EMI test receiver.
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the
	selected frequencies and the necessary measurements made with a receiver bandwidth
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail

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



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Test Mode : USB Mode



Test Data

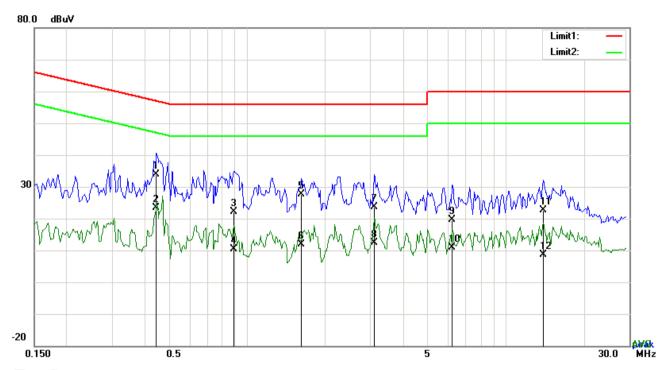
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2280	24.22	QP	10.03	34.25	62.52	-28.27
2	L1	0.2280	3.90	AVG	10.03	13.93	52.52	-38.59
3	L1	0.4893	30.88	QP	10.03	40.91	56.18	-15.27
4	L1	0.4893	17.41	AVG	10.03	27.44	46.18	-18.74
5	L1	0.9066	25.18	QP	10.03	35.21	56.00	-20.79
6	L1	0.9066	12.28	AVG	10.03	22.31	46.00	-23.69
7	L1	1.8504	24.09	QP	10.04	34.13	56.00	-21.87
8	L1	1.8504	8.98	AVG	10.04	19.02	46.00	-26.98
9	L1	3.3627	25.75	QP	10.06	35.81	56.00	-20.19
10	L1	3.3627	10.82	AVG	10.06	20.88	46.00	-25.12
11	L1	17.3832	28.48	QP	10.26	38.74	60.00	-21.26
12	L1	17.3832	13.20	AVG	10.26	23.46	50.00	-26.54



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Test Mode:



Test Data

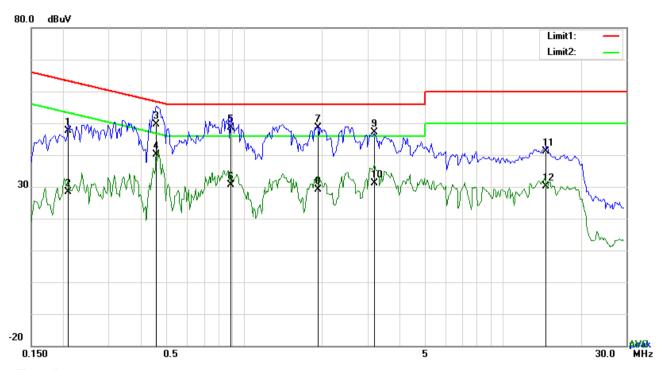
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.4464	23.97	QP	10.02	33.99	56.94	-22.95
2	Ν	0.4464	13.35	AVG	10.02	23.37	46.94	-23.57
3	N	0.8871	12.16	QP	10.03	22.19	56.00	-33.81
4	N	0.8871	0.46	AVG	10.03	10.49	46.00	-35.51
5	Ν	1.6203	17.63	QP	10.04	27.67	56.00	-28.33
6	Ζ	1.6203	1.89	AVG	10.04	11.93	46.00	-34.07
7	Ζ	3.1014	13.60	QP	10.05	23.65	56.00	-32.35
8	Ζ	3.1014	2.23	AVG	10.05	12.28	46.00	-33.72
9	Ν	6.2175	9.45	QP	10.09	19.54	60.00	-40.46
10	Ν	6.2175	0.80	AVG	10.09	10.89	50.00	-39.11
11	Ν	13.9161	12.56	QP	10.19	22.75	60.00	-37.25
12	Ν	13.9161	-1.48	AVG	10.19	8.71	50.00	-41.29



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Test Mode : USB Mode



Test Data

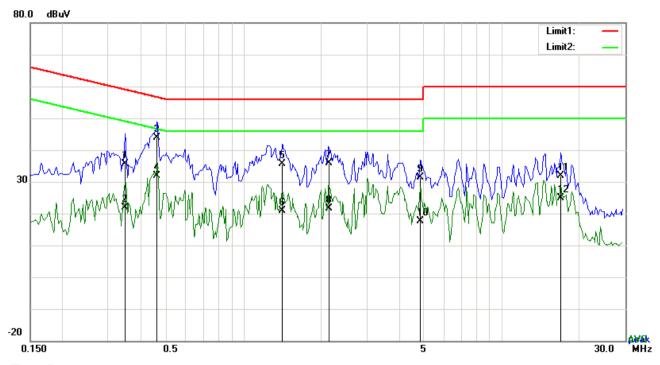
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2085	37.62	QP	10.03	47.65	63.26	-15.61
2	L1	0.2085	18.37	AVG	10.03	28.40	53.26	-24.86
3	L1	0.4581	39.50	QP	10.03	49.53	56.73	-7.20
4	L1	0.4581	29.98	AVG	10.03	40.01	46.73	-6.72
5	L1	0.8871	38.60	QP	10.03	48.63	56.00	-7.37
6	L1	0.8871	20.51	AVG	10.03	30.54	46.00	-15.46
7	L1	1.9284	38.49	QP	10.04	48.53	56.00	-7.47
8	L1	1.9284	19.18	AVG	10.04	29.22	46.00	-16.78
9	L1	3.1900	37.09	QP	10.06	47.15	56.00	-8.85
10	L1	3.1900	21.08	AVG	10.06	31.14	46.00	-14.86
11	L1	14.7312	30.80	QP	10.22	41.02	60.00	-18.98
12	L1	14.7312	20.02	AVG	10.22	30.24	50.00	-19.76



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Test Mode : USB Mode



Test Data

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.3489	25.53	QP	10.02	35.55	58.99	-23.44
2	N	0.3489	11.98	AVG	10.02	22.00	48.99	-26.99
3	N	0.4659	33.78	QP	10.02	43.80	56.59	-12.79
4	N	0.4659	21.87	AVG	10.02	31.89	46.59	-14.70
5	N	1.4136	25.68	QP	10.03	35.71	56.00	-20.29
6	N	1.4136	10.89	AVG	10.03	20.92	46.00	-25.08
7	N	2.1439	25.85	QP	10.04	35.89	56.00	-20.11
8	N	2.1439	11.60	AVG	10.04	21.64	46.00	-24.36
9	N	4.8447	21.43	QP	10.07	31.50	56.00	-24.50
10	N	4.8447	7.54	AVG	10.07	17.61	46.00	-28.39
11	N	16.8528	21.76	QP	10.22	31.98	60.00	-28.02
12	N	16.8528	14.55	AVG	10.22	24.77	50.00	-25.23



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6.2 Radiated Emissions

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	December 27, 2017
Tested By:	Evans He

Requirement(s):

Spec	Item	Requirement	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 Above 960	200 500					
Test Setup	Ant. Tower Support Units Turn Table Ground Plane Test Receiver							
Procedure	1. 2.	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: a. Vertical or horizontal polarization (whichever gave the higher emission level						



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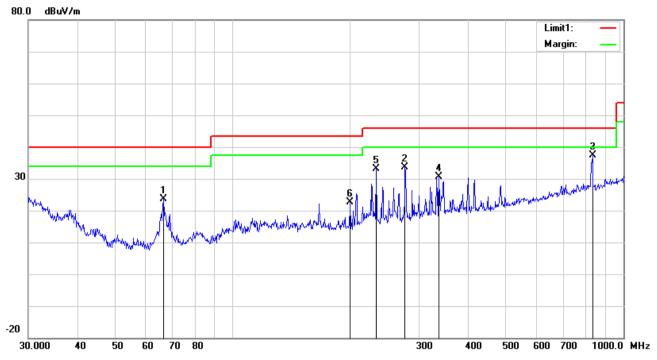
_		(over a full rotation of the EUT) was chosen.
		b. 7	The EUT was then rotated to the direction that gave the maximum
		ϵ	emission.
		c. F	Finally, the antenna height was adjusted to the height that gave the maximum
		6	emission.
	3.	The reso	lution bandwidth and video bandwidth of test receiver/spectrum analyzer is
		120 kHz	for Quasiy Peak detection at frequency below 1GHz.
	4.	The resolu	ution bandwidth of test receiver/spectrum analyzer is 1MHz and video
		bandwidt	h is 3MHz with Peak detection for Peak measurement at frequency above
		1GHz.	
		The reso	olution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
		bandwic	th with Peak detection for Average Measurement as below at frequency
		above 1	GHz.
		■ 1 kHz	(Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5.	Steps 2 a	and 3 were repeated for the next frequency point, until all selected frequency
		points we	ere measured.
Remark			
Result	Pas	SS	☐ Fail
Test Data	Yes		□ _{N/A}
Test Plot	Yes (Se	ee below) N/A



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Test Mode : USB Mode

Below 1GHz



Test Data

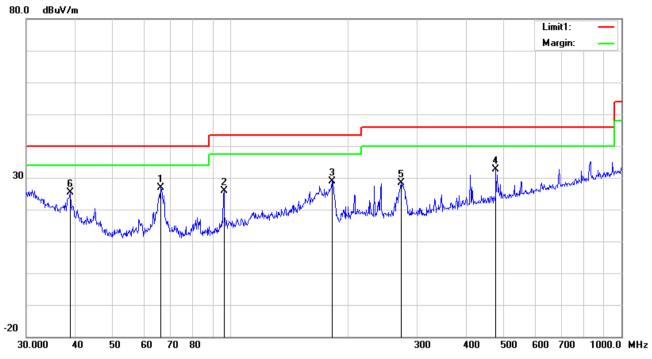
Horizontal Polarity Plot @3m

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	Η	66.4989	37.50	peak	7.62	22.39	0.91	23.64	40.00	-16.36	100	340
2	I	276.1236	41.51	peak	12.55	22.29	1.75	33.52	46.00	-12.48	100	199
3	Н	833.3171	33.74	peak	21.77	21.06	2.90	37.35	46.00	-8.65	100	118
4	Н	337.2155	36.45	peak	14.38	22.19	1.98	30.62	46.00	-15.38	100	347
5	Н	232.5318	42.15	peak	11.64	22.32	1.64	33.11	46.00	-12.89	100	50
6	Н	199.9856	31.31	peak	12.10	22.38	1.54	22.57	43.50	-20.93	100	179



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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	66.2662	40.74	peak	7.61	22.39	0.91	26.87	40.00	-13.13	100	342
2	V	96.0986	37.71	peak	9.46	22.32	1.02	25.87	43.50	-17.63	100	177
3	٧	181.9202	38.57	peak	11.11	22.26	1.39	28.81	43.50	-14.69	100	180
4	<	477.1694	35.05	peak	17.24	21.86	2.29	32.72	46.00	-13.28	100	332
5	٧	273.2341	36.51	peak	12.42	22.29	1.74	28.38	46.00	-17.62	100	328
6	٧	38.8879	32.11	peak	14.71	22.27	0.78	25.33	40.00	-14.67	100	174



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Above 1GHz

Frequency	Read_level	A minor state	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1621.43	66.79	310	100	V	-18.04	48.75	74	-25.25	PK
1197.38	68	207	100	V	-20.41	47.59	74	-26.41	PK
4891.45	52.69	315	100	V	-4.8	47.89	74	-26.11	PK
2979.49	58.26	302	100	Н	-12.7	45.56	74	-28.44	PK
2313.91	62.75	28	100	Н	-13.8	48.95	74	-25.05	PK
1049.7	67.6	338	100	Н	-20.87	46.73	74	-27.27	PK

Note1: The highest frequency of the EUT is 2567.5 MHz, so the testing has been conformed to 5*2567.5MHz=12,838MHz.

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.

Note4: The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.



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Annex A. TEST INSTRUMENT

Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted Emis	ssions				
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	<
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	₹
Stabilization Network	LI-123A	191100	09/23/2017	09/22/2010	•
Line Impedance	LI-125A	191107	09/23/2017	09/22/2018	>
Stabilization Network	LI-12JA	191101	09/23/2017	09/22/2010	Į.
ISN	ISN T800	34373	09/23/2017	09/22/2018	•
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	•
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	•
OPT 010 AMPLIFIER	8447E	2727A02430	08/30/2017	08/29/2018	>
(0.1-1300MHz)	0447L	2121A02430	00/30/2017	00/29/2010	Į.
Microwave Preamplifier	8449B	3008A02402	03/23/2017	03/22/2018	~
(1 ~ 26.5GHz)	04490	3000A02402	03/23/2017	03/22/2010	Į.
Bilog Antenna	JB6	A110712	09/19/2017	09/18/2018	~
(30MHz~6GHz)	טטט	A110/12	03/13/2017	03/10/2010	
Double Ridge Horn	AH-118	71259	09/22/2017	09/21/2018	>
Antenna	A11-110	1 1208	USIZZIZUII	03/21/2010	
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	V



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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



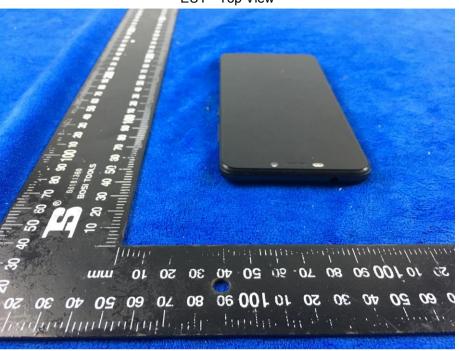
EUT - Rear View



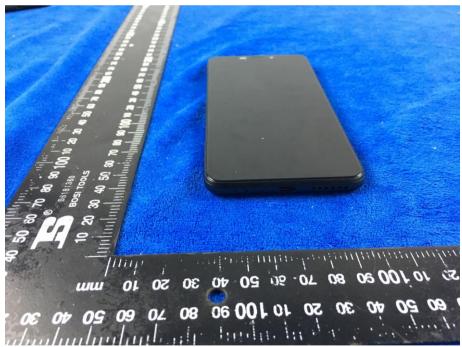


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EUT - Top View



EUT - Bottom View



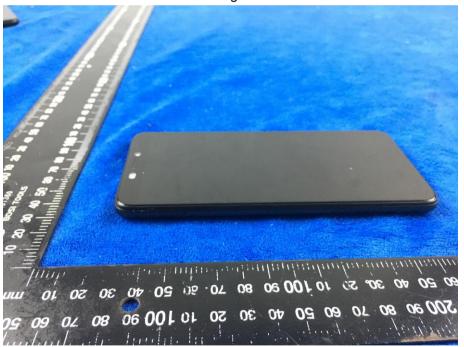


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EUT - Left View



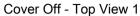
EUT - Right View





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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



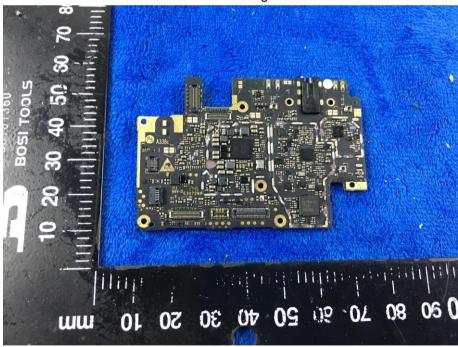


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Mainboard with Shielding - Front View



Mainboard with Shielding - Rear View



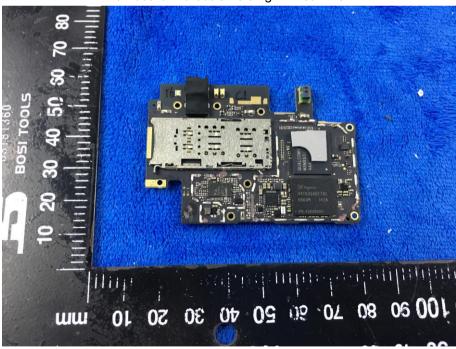


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Mainboard without Shielding - Front View



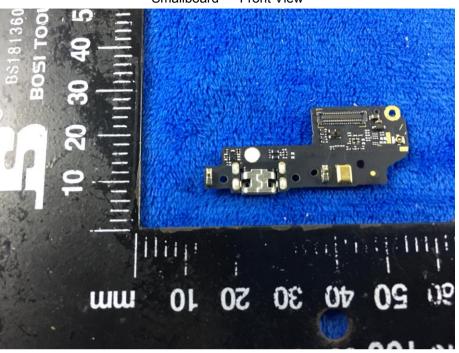
Mainboard without Shielding - Rear View



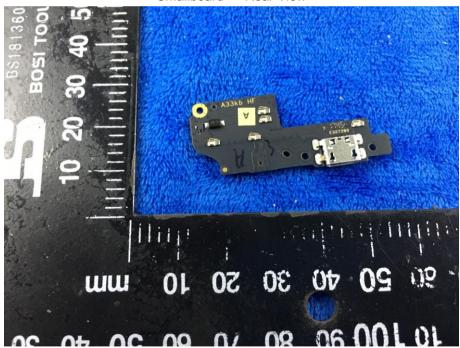


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Smallboard - Front View



Smallboard - Rear View





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LCD - Front View



LCD - Rear View





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GSM/PCS/U MTS-FDD/LTE Antenna View



WIFI/BT/BLE/GPS - Antenna View





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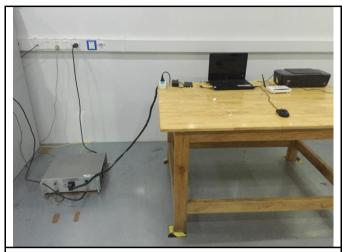
RXD- Antenna View



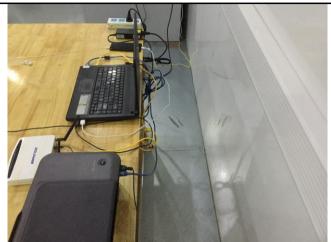


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Annex B.iii. Photograph: Test Setup Photo



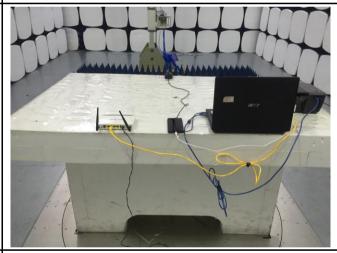
Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



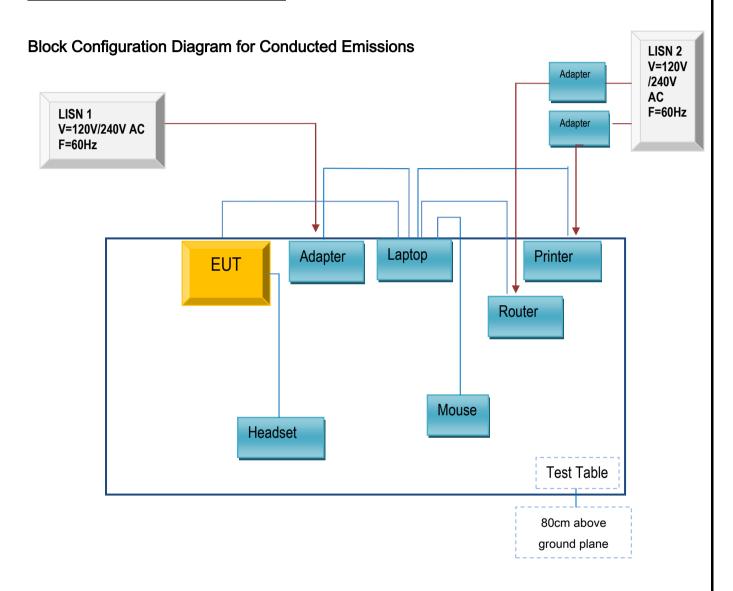
Radiated Emissions Test Setup Above 1GHz



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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

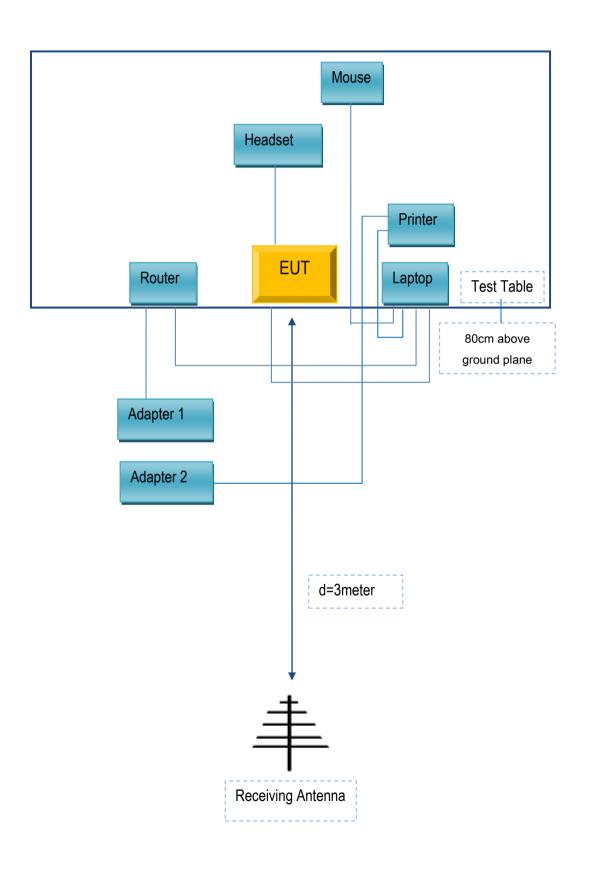
Annex C.ii. TEST SET UP BLOCK





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Block Configuration Diagram for Radiated Emissions





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203
TECNO MOBILE LIMITED	headset	X573	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