RF TEST REPORT



Report No.: 17070400-FCC-R3-V1

Supersede Report No.: N/A

Applicant	INFINIX MC	BILITY LIM	ITED	
Product Name	Mobile Phone			
Model No.	X5010			
Serial No.	N/A		_	_
Test Standard	FCC Part 15	5.247: 2016	, ANSI C63.10: 2	013
Test Date	June 01 to J	June 01 to June 22, 2017		
Issue Date	July 03, 2017			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did no	Equipment did not comply with the specification			
Loven	LOVEN LUO David Huang			
Loren Luo Test Engineer			d Huang cked 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

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Laboratories Introduction

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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
17070400-FCC-R3	NONE	Original	June 23, 2017
17070400 ECC D2 V4	V1	Added the Radiated Emission	July 03, 2017
17070400-FCC-R3-V1		test data (9kHz-30MHz)	

2. Customer information

Applicant Name	INFINIX MOBILITY LIMITED
Applicant Add	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17
	CANTON RD TST KLN 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

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	Dedicted Engineiro December 7.0 Charaches 20.0
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of	
Conducted Emission	EZ-EMC(ver.lcp-03A1)



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: X5010

Serial Model: N/A

Date EUT received: May 31, 2017

Test Date(s): June 01 to June 22, 2017

Equipment Category: DTS

Antenna Gain:

GSM850: -6.2dBi PCS1900: -3.7dBi

UMTS-FDD Band V: -5.8dBi

UMTS-FDD Band IV: -3.6dBi

UMTS-FDD Band II: -3.7dBi

WIFI: -4.9dBi

Bluetooth/BLE: -4.9dBi

GPS: -3.7dBi

Antenna Type: PIFA antenna

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

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 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



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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

Max. Output Power: -2.257dBm

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH

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 : Infinix

Adapter:

Model: CU-52JT

Input: AC100-240V~50/60Hz,200mA

Output: DC 5.0V,1.2A

Input Power: Battery:

Model: BL-AW878

Spec: 3.8V,3000mAh/3060mAh

11.4Wh/11.62Wh

Voltage: 4.35V

FCC ID: 2AIZN-X5010

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



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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	
§15.203	Antenna Requirement	Compliance	
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance	
§15.247(b)(3)	Conducted Maximum Output Power	Compliance	
§15.247(e)	Power Spectral Density	Compliance	
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted	Camplianas	
§13.247(d)	Frequency Bands	Compliance	
§15.207 (a), AC Power Line Conducted Emissions		Compliance	
§15.205, §15.209,	Radiated Emissions & Unwanted Emissions	Carralianaa	
§15.247(d)	into Restricted Frequency Bands	Compliance	

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band-Edge & Unwanted		
Emissions into Restricted		
Frequency Bands and	Confidence level of approximately 95% (in the case	
Radiated Emissions &	where distributions are normal), with a coverage	+5.6dB/-4.5dB
Unwanted Emissions	factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	
into Restricted Frequency		
Bands		
-	-	-



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 2 antennas:

A permanently attached PIFA antenna for GSM /PCS/ UMTS-FDD Band V/ IV/ II, the gain is -6.2dBi for GSM, the gain is -3.7dBi for PCS/ UMTS-FDD Band II, the gain is -5.8dBi for UMTS-FDD Band V, the gain is -3.6dBi for UMTS-FDD Band IV.

A permanently attached PIFA antenna for Bluetooth/WIFI/BLE/GPS, the gain is -4.9dBi for Bluetooth/WIFI/BLE, the gain is -3.7dBi for GPS.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	June 20, 2017
Tested By :	Loren Luo

Spec	Item Requirement Applicab		
§ 15.247(a)(2)	a)	6dB BW≥ 500kHz;	V
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	V
Test Setup	Spectrum Analyzer EUT		
Test Procedure	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth 6dB Emission bandwidth measurement procedure - Set RBW = 100 kHz. - Set the video bandwidth (VBW) ≥ 3 RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.		
Remark			
Result	Pass Fail		

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



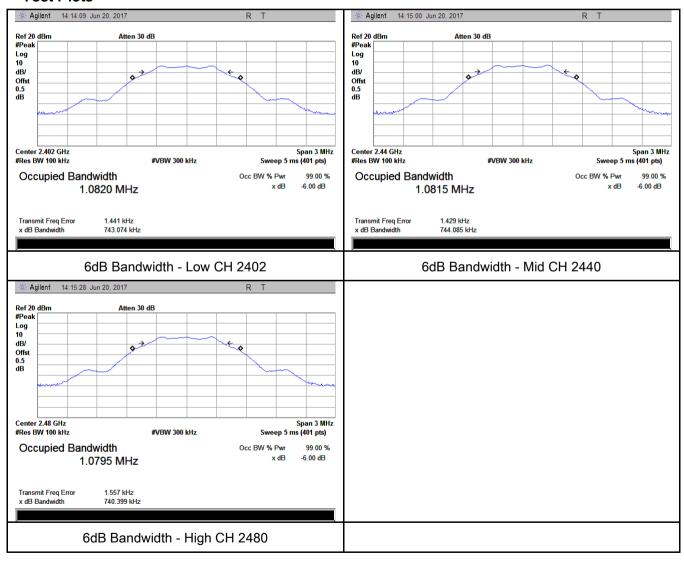
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6dB Bandwidth measurement result

Test Data

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	734.074	1.0820
Mid	2440	744.085	1.0815
High	2480	740.399	1.0795

Test Plots





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6.3 Maximum Output Power

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	June 20, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable			
§15.247(b) (3),RSS210	a)					
	b)	b) FHSS in 5725-5850MHz: ≤ 1 Watt				
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.				
(A8.4)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt				
(1011)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt				
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	~			
Test Setup	Spectrum Analyzer EUT					
	558074	D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power meth	od			
	Maximum output power measurement procedure					
	a) Set the RBW ≥ DTS bandwidth.					
	b) Set VBW ≥ 3 × RBW.					
Test	c) Set sp	pan ≥ 3 x RBW				
Procedure	d) Sweep time = auto couple.					
	e) Detector = peak.					
	f) Trace mode = max hold.					
	g) Allow trace to fully stabilize.					
	h) Use p	eak marker function to determine the peak amplitude level.				
Remark						
Result	Pas	s Fail				



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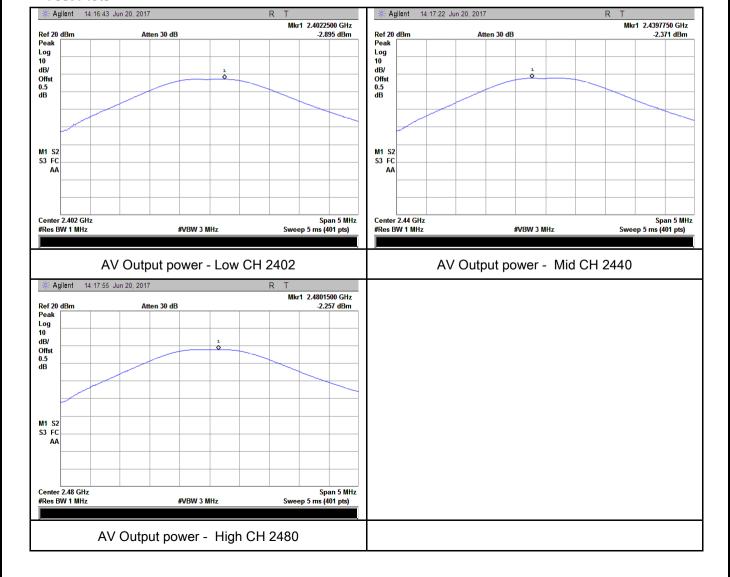
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

Output Power measurement result

Test Data

Туре	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-2.895	30	Pass
Output	Mid	2440	-2.371	30	Pass
power	High	2480	-2.257	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	25 °C
Relative Humidity	53%
Atmospheric Pressure	1020mbar
Test date :	June 20, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable		
§15.247(e)	a)	a) The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.			
Test Setup	Spectrum Analyzer EUT				
Test Procedure	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power spectral density measurement procedure - a) Set analyzer center frequency to DTS channel center frequency. - b) Set the span to 1.5 times the DTS bandwidth. - c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. - d) Set the VBW ≥ 3 × RBW. - e) Detector = peak. - f) Sweep time = auto couple. - g) Trace mode = max hold. - h) Allow trace to fully stabilize. - i) Use the peak marker function to determine the maximum amplitude level within the RBW. - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.				
Remark					
Result	Pas	ss Fail			

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



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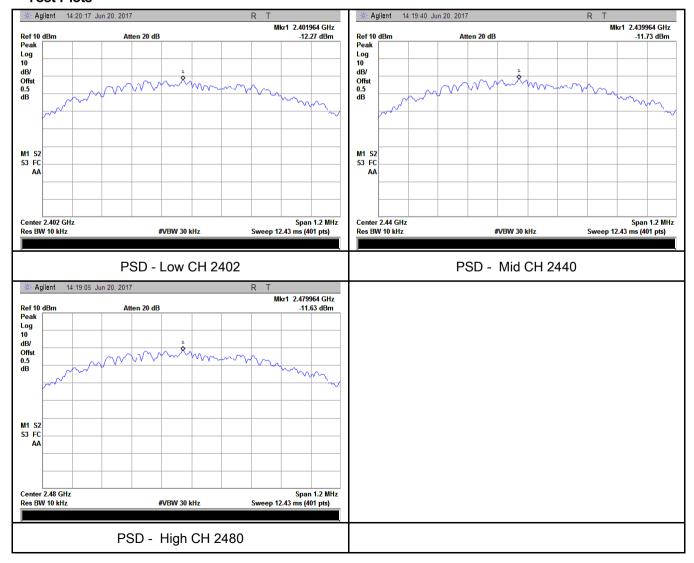
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
	Low	2402	-12.27	-5.23	-17.50	8	Pass
PSD	Mid	2440	-11.73	-5.23	-16.96	8	Pass
	High	2480	-11.63	-5.23	-16.86	8	Pass

Note: factor=10log(3/10)=-5.23

Test Plots





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	23 °C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	June 12, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Item Requirement Applicable					
§15.247(d)	a)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.					
Test Setup	Ant. Tower Support Units Turn Table Ground Plane Test Receiver						
Test Procedure	Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.						



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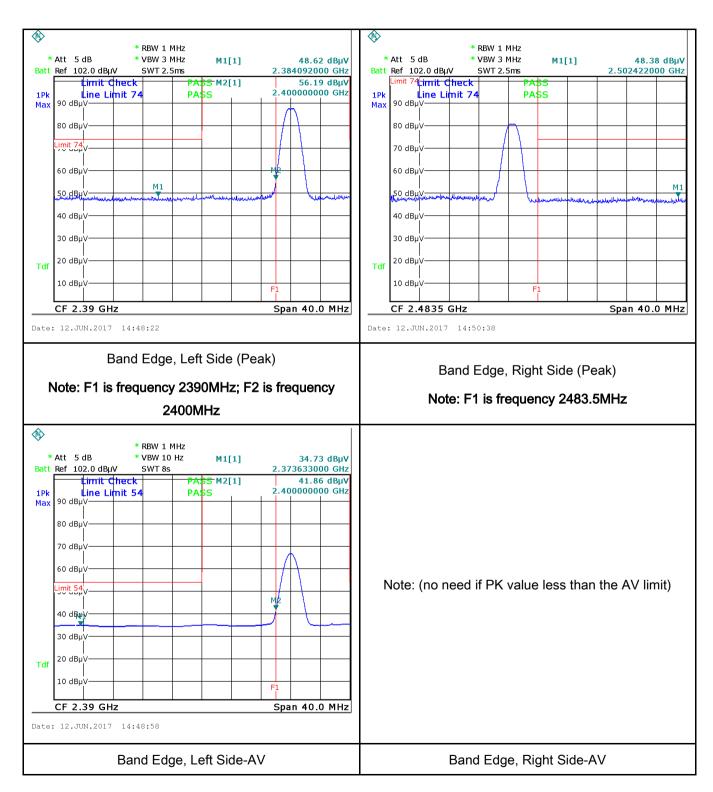
	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
	convenient frequency span including 100kHz bandwidth from band edge, check
	the emission of EUT, if pass then set Spectrum Analyzer as below:
	a. The resolution bandwidth and video bandwidth of test receiver/spectrum
	analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
	b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.
	c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the
	video bandwidth is 10Hz with Peak detection for Average Measurement as below
	at frequency above 1GHz.
	- 4. Measure the highest amplitude appearing on spectral display and set it as a
	reference level. Plot the graph with marking the highest point and edge frequency.
	- 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	Pass Fail

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



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Test Plots Band Edge measurement result





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6.6 AC Power Line Conducted Emissions

Temperature	25 °C		
Relative Humidity	50%		
Atmospheric Pressure	1008mbar		
Test date :	June 08, 2017		
Tested By :	Loren Luo		

Requirement(s):

Spec	Item	Requirement	Applicable			
		For Low-power radio-fr connected to the public voltage that is conducted				
47CFR§15. 207,	a)	frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at th	measured using a 50 network (LISN). The	>		
RSS210		Frequency ranges	Limit (
(A8.1)		(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					
	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 rether 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 50W/50mH EUT LISN, of filtered mains. 				onnected to	
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a lo						



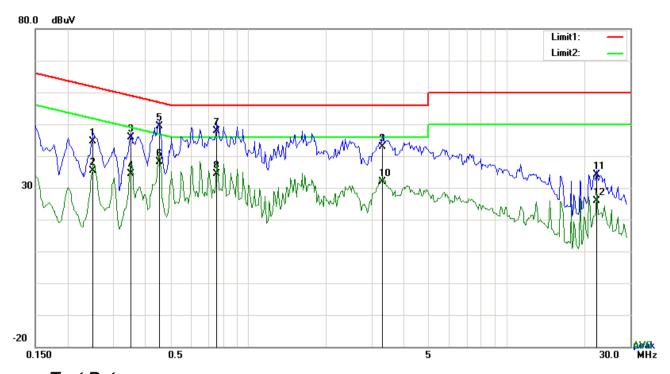
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	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth 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)



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Test Mode: Transmitting Mode



Test Data

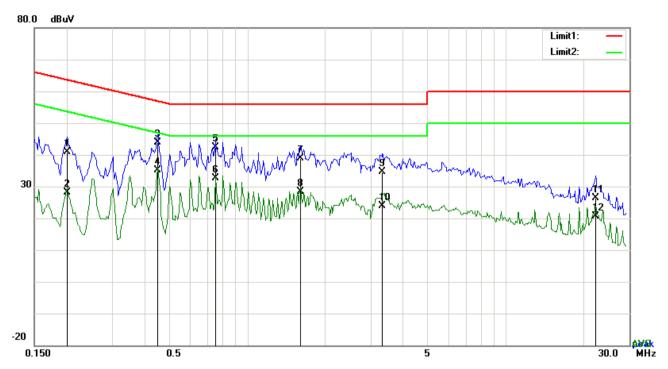
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
110.		(MHz)	(dBµV)	Dotooloi	(dB)	(dBµV)	(dBµV)	(dB)
1	L1	0.2514	34.53	QP	10.03	44.56	61.71	-17.15
2	L1	0.2514	25.43	AVG	10.03	35.46	51.71	-16.25
3	L1	0.3528	35.83	QP	10.03	45.86	58.90	-13.04
4	L1	0.3528	24.39	AVG	10.03	34.42	48.90	-14.48
5	L1	0.4542	39.45	QP	10.03	49.48	56.80	-7.32
6	L1	0.4542	28.20	AVG	10.03	38.23	46.80	-8.57
7	L1	0.7545	37.97	QP	10.03	48.00	56.00	-8.00
8	L1	0.7545	24.24	AVG	10.03	34.27	46.00	-11.73
9	L1	3.2964	32.80	QP	10.06	42.86	56.00	-13.14
10	L1	3.2964	21.91	AVG	10.06	31.97	46.00	-14.03
11	L1	22.2777	23.81	QP	10.34	34.15	60.00	-25.85
12	L1	22.2777	15.45	AVG	10.34	25.79	50.00	-24.21



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Test Mode:	Transmitting Mode



Test Data

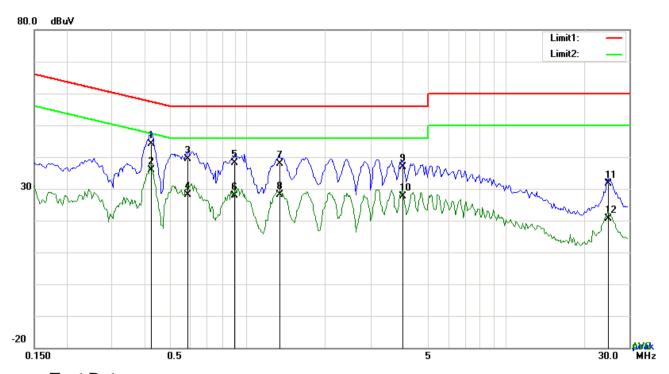
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	N	0.2007	30.93	QP	10.02	40.95	63.58	-22.63
2	N	0.2007	18.13	AVG	10.02	28.15	53.58	-25.43
3	N	0.4503	33.90	QP	10.02	43.92	56.87	-12.95
4	N	0.4503	25.15	AVG	10.02	35.17	46.87	-11.70
5	N	0.7545	32.41	QP	10.03	42.44	56.00	-13.56
6	N	0.7545	22.61	AVG	10.03	32.64	46.00	-13.36
7	N	1.6086	28.76	QP	10.04	38.80	56.00	-17.20
8	N	1.6086	18.39	AVG	10.04	28.43	46.00	-17.57
9	N	3.3393	24.70	QP	10.05	34.75	56.00	-21.25
10	N	3.3393	13.82	AVG	10.05	23.87	46.00	-22.13
11	N	22.2114	16.04	QP	10.30	26.34	60.00	-33.66
12	N	22.2114	10.32	AVG	10.30	20.62	50.00	-29.38



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Test Mode: Transmitting Mode



Test Data

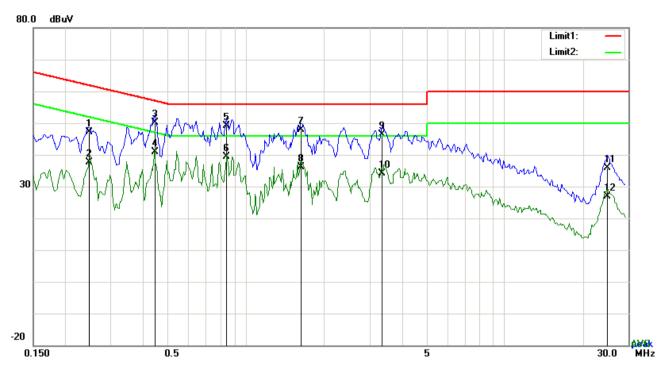
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.4269	34.04	QP	10.03	44.07	57.31	-13.24
2	L1	0.4269	25.84	AVG	10.03	35.87	47.31	-11.44
3	L1	0.5907	29.39	QP	10.03	39.42	56.00	-16.58
4	L1	0.5907	18.21	AVG	10.03	28.24	46.00	-17.76
5	L1	0.8988	28.00	QP	10.03	38.03	56.00	-17.97
6	L1	0.8988	17.78	AVG	10.03	27.81	46.00	-18.19
7	L1	1.3317	27.75	QP	10.03	37.78	56.00	-18.22
8	L1	1.3317	18.06	AVG	10.03	28.09	46.00	-17.91
9	L1	3.9867	26.70	QP	10.07	36.77	56.00	-19.23
10	L1	3.9867	17.44	AVG	10.07	27.51	46.00	-18.49
11	L1	25.0506	21.19	QP	10.40	31.59	60.00	-28.41
12	L1	25.0506	10.28	AVG	10.40	20.68	50.00	-29.32



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Test Mode: Transmitting Mode



Test Data

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	Ν	0.2475	37.09	QP	10.02	47.11	61.84	-14.73
2	N	0.2475	27.52	AVG	10.02	37.54	51.84	-14.30
3	Ν	0.4425	40.09	QP	10.02	50.11	57.01	-6.90
4	Ν	0.4425	30.83	AVG	10.02	40.85	47.01	-6.16
5	Ν	0.8364	39.06	QP	10.03	49.09	56.00	-6.91
6	Ν	0.8364	29.23	AVG	10.03	39.26	46.00	-6.74
7	Ν	1.6281	37.72	QP	10.04	47.76	56.00	-8.24
8	N	1.6281	26.13	AVG	10.04	36.17	46.00	-9.83
9	Ν	3.3549	36.31	QP	10.05	46.36	56.00	-9.64
10	N	3.3549	24.16	AVG	10.05	34.21	46.00	-11.79
11	N	25.0389	25.63	QP	10.34	35.97	60.00	-24.03
12	N	25.0389	16.45	AVG	10.34	26.79	50.00	-23.21



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6.7 Radiated Emissions & Restricted Band

Temperature	22 °C
Relative Humidity	57%
Atmospheric Pressure	1005mbar
Test date :	June 05, 2017
Tested By :	Loren Luo

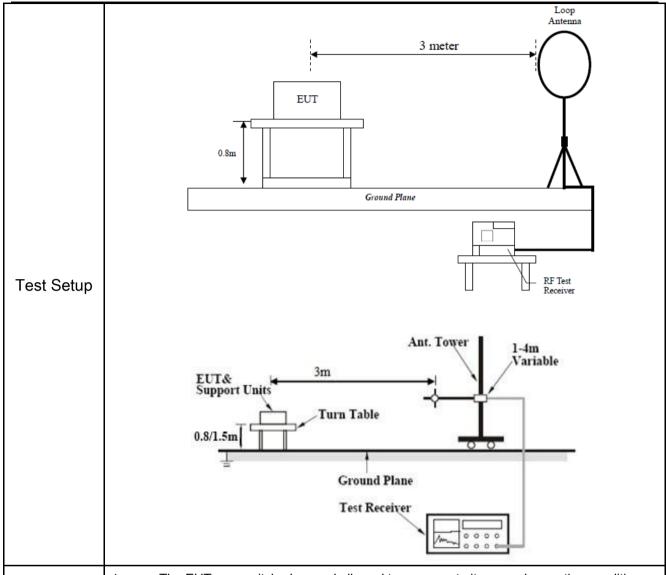
Requirement(s):

Spec	Item	Requirement		Applicable
		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		
	2)	Frequency range (MHz)	Field Strength (μV/m)	~
	a)	0.009~0.490	2400/F(KHz)	
		0.490~1.705	24000/F(KHz)	
		1.705~30.0	30	
		30 – 88	100	
47CFR§15.		88 – 216	150	
247(d),		216 960	200	
RSS210		Above 960	500	
(A8.5)	b)	For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the intentional radiator is oppower that is produced by the intentional radiator is oppower that is produced by the intention band that contains the highest level determined by the measurement mused. Attenuation below the general is not required 20 dB down 30	d spectrum or digitally perating, the radio frequency ational radiator shall be at least 0 kHz bandwidth within the desired power, sethod on output power to be	
	c)	or restricted band, emission must a emission limits specified in 15.209		V



Procedure

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- 1. 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 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 resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.



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	The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video						
	bandwidth is 10Hz with Peak detection for Average Measurement as below at						
frequency above 1GHz.							
	5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency						
	points were measured.						
Damark	Different RF configuration has been evaluated but not much difference was found. The data						
Remark	presented here is the worst case data with EUT under 802.11n - HT20-2437MHz mode.						
Result	Pass Fail						
Test Data	▼ _{Yes} N/A						
Test Plot	Yes (See below) N/A						

Test Result:

Test Mode:	Transmitting Mode
------------	-------------------

Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
						>20
						>20

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

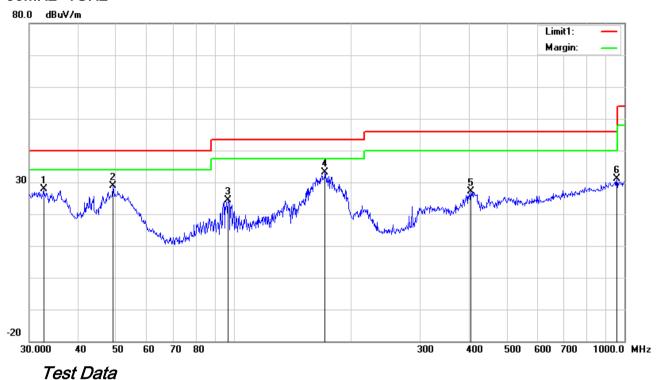
Limit line = specific limits(dBuv) + distance extrapolation factor.



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Test Mode: Transmitting Mode

30MHz -1GHz



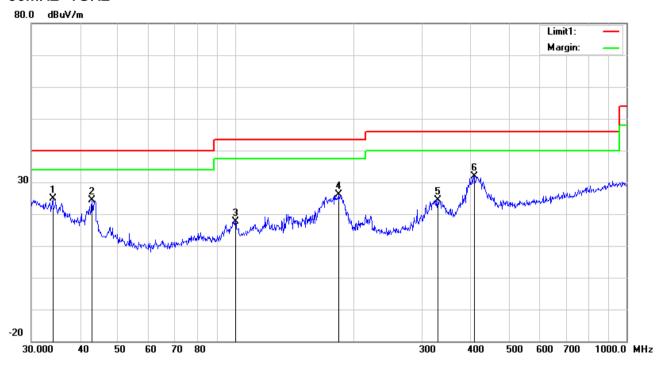
Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
		(MHz)	(dBuV/m)	or	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	V	32.6340	30.00	peak	19.37	22.26	0.69	27.80	40.00	-12.20	100	157
2	٧	49.0145	41.51	peak	8.83	22.36	0.79	28.77	40.00	-11.23	100	232
3	V	96.7749	36.15	peak	9.63	22.32	1.04	24.50	43.50	-19.00	200	53
4	V	171.3926	42.27	peak	11.69	22.26	1.36	33.06	43.50	-10.44	100	232
5	V	404.6665	31.26	peak	15.79	22.00	2.02	27.07	46.00	-18.93	100	140
6	٧	955.4381	25.87	peak	22.78	20.77	3.20	31.08	46.00	-14.92	100	288



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30MHz -1GHz



Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
		(MHz)	(dBuV/m)	or	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	Н	34.0365	28.17	peak	18.29	22.26	0.73	24.93	40.00	-15.07	100	307
2	Н	42.8998	33.97	peak	11.99	22.29	0.77	24.44	40.00	-15.56	100	49
3	Н	99.8777	28.49	peak	10.37	22.32	1.12	17.66	43.50	-25.84	100	228
4	П	183.8440	35.86	peak	11.21	22.27	1.43	26.23	43.50	-17.27	100	174
5	Н	329.0390	30.38	peak	14.21	22.21	1.94	24.32	46.00	-21.68	100	123
6	Н	407.5145	36.09	peak	15.85	21.99	2.03	31.98	46.00	-14.02	100	246



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Above 1GHz

	Transmitting Mode	Test Mode:
--	-------------------	------------

Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	39.39	AV	V	33.83	6.86	31.72	48.36	54	-5.64
4804	38.72	AV	Н	33.83	6.86	31.72	47.69	54	-6.31
4804	48.03	PK	V	33.83	6.86	31.72	57	74	-17
4804	47.54	PK	Н	33.83	6.86	31.72	56.51	74	-17.49
17799	24.6	AV	V	45.03	11.21	32.38	48.46	54	-5.54
17799	24.25	AV	Н	45.03	11.21	32.38	48.11	54	-5.89
17799	40.44	PK	V	45.03	11.21	32.38	64.3	74	-9.7
17799	40.4	PK	Н	45.03	11.21	32.38	64.26	74	-9.74

Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	39.17	AV	V	33.86	6.82	31.82	48.03	54	-5.97
4880	38.49	AV	Н	33.86	6.82	31.82	47.35	54	-6.65
4880	48.3	PK	V	33.86	6.82	31.82	57.16	74	-16.84
4880	47.4	PK	Н	33.86	6.82	31.82	56.26	74	-17.74
17809	24.74	AV	V	45.15	11.18	32.41	48.66	54	-5.34
17809	23.65	AV	Н	45.15	11.18	32.41	47.57	54	-6.43
17809	41.38	PK	V	45.15	11.18	32.41	65.3	74	-8.7
17809	40.4	PK	Н	45.15	11.18	32.41	64.32	74	-9.68



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High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	38.35	AV	V	33.9	6.76	31.92	47.09	54	-6.91
4960	38.91	AV	Н	33.9	6.76	31.92	47.65	54	-6.35
4960	48.5	PK	V	33.9	6.76	31.92	57.24	74	-16.76
4960	47.37	PK	Н	33.9	6.76	31.92	56.11	74	-17.89
17800	25.08	AV	V	45.22	11.35	32.38	49.27	54	-4.73
17800	24.84	AV	Н	45.22	11.35	32.38	49.03	54	-4.97
17800	41.13	PK	V	45.22	11.35	32.38	65.32	74	-8.68
17800	40.6	PK	Н	45.22	11.35	32.38	64.79	74	-9.21

Note:

- 1, The testing has been conformed to 10*2480MHz=24,800MHz 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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Annex A. TEST INSTRUMENT

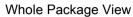
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	~
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	•
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	•
ISN	ISN T800	34373	09/24/2016	09/23/2017	
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	•
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	✓
RF conducted test			1		
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	>
Power Splitter	1#	1#	08/31/2016	08/30/2017	~
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	•
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	•
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	~
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	<u><</u>
Active Antenna (9kHz-30MHz)	AL-130	121031	10/13/2016	10/12/2017	<u><</u>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<u>\</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	Z.
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	\



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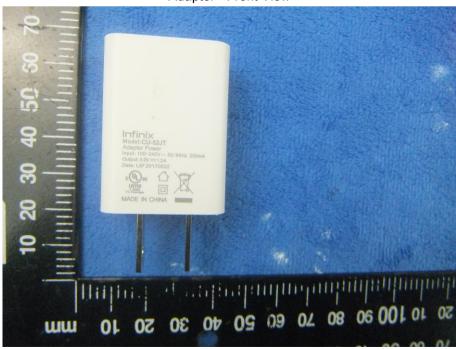
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





Adapter - Front View





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EUT - Front View



EUT - Rear View



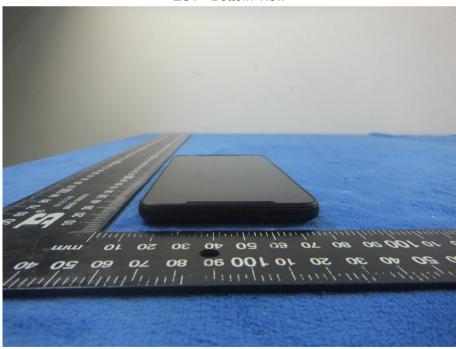


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EUT - Top View



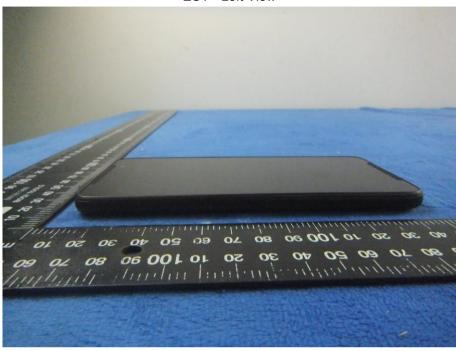
EUT - Bottom View





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EUT - Left View



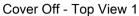
EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 2



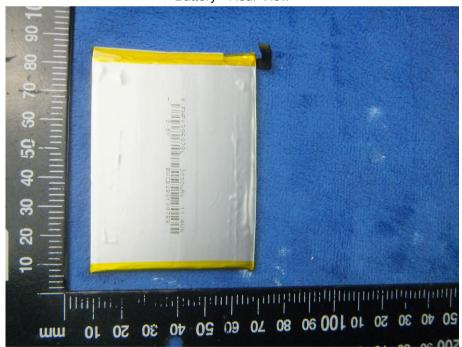


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Battery - Front View



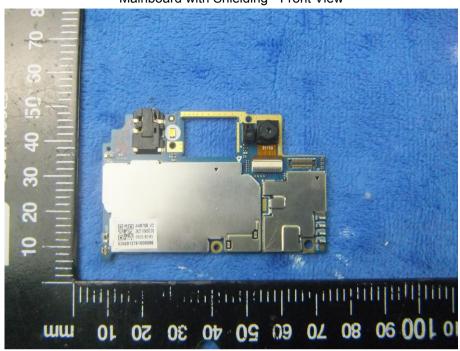
Battery - Rear View





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Mainboard with Shielding - Front View



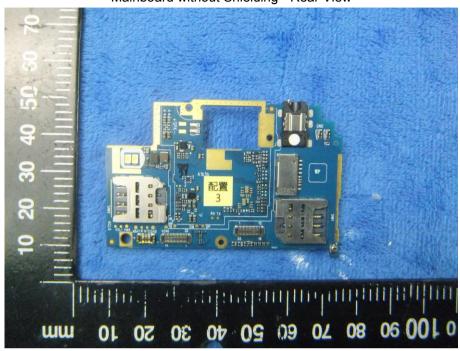
Mainboard without Shielding - Front View



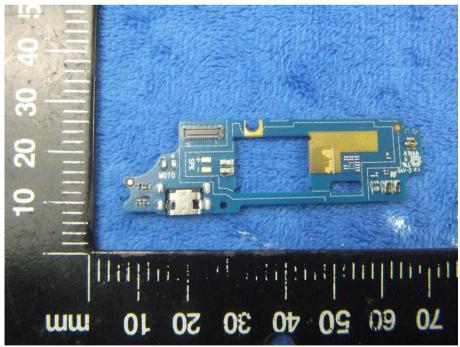


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Mainboard without Shielding - Rear View



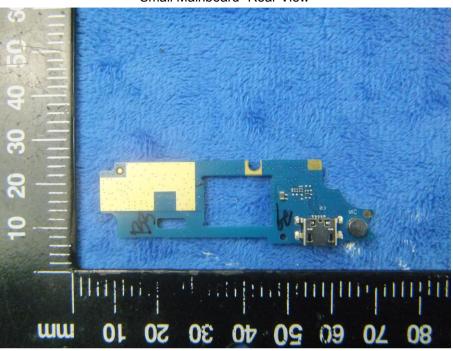
Small Mainboard - Front View





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Small Mainboard -Rear View



LCD - Front View





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LCD - Rear View



GSM/PCS/UMTS - Antenna View





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BT/WIFI - Antenna View





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Annex B.iii. Photograph: Test Setup Photo



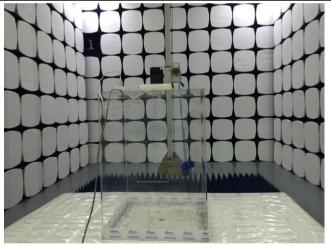
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

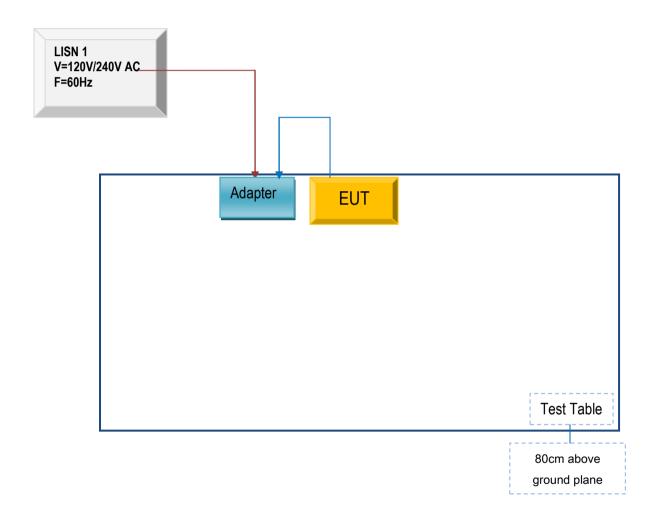


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

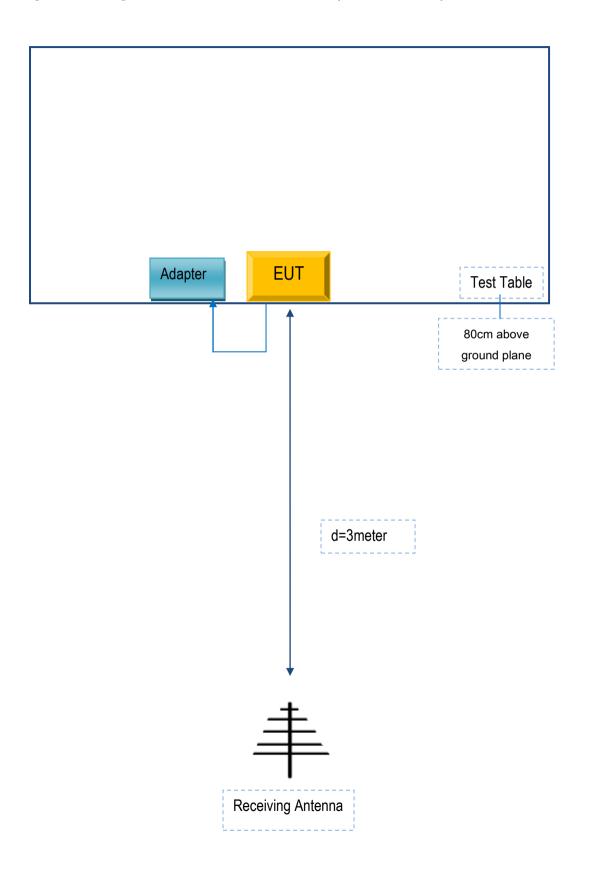
Block Configuration Diagram for AC Line Conducted Emissions





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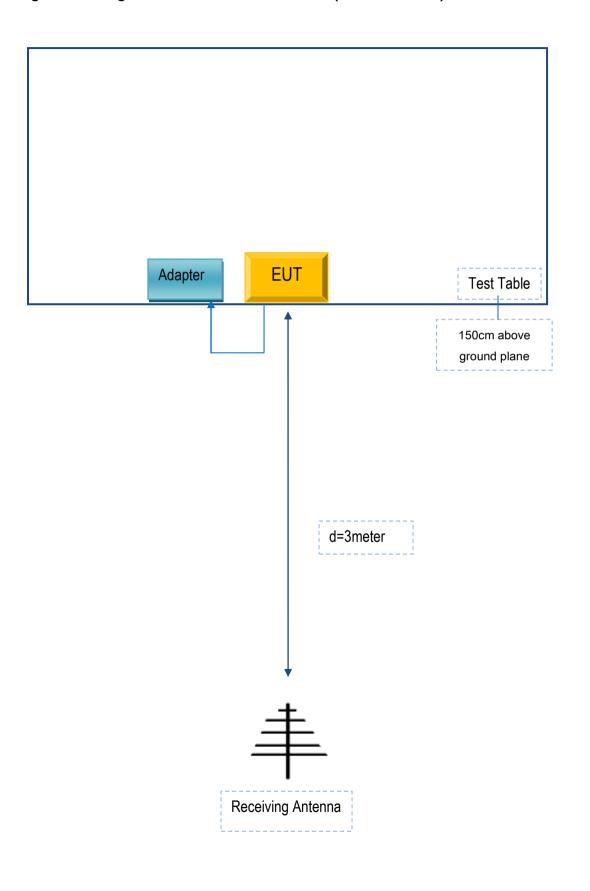
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz) .





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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
INFINIX MOBILITY LIMITED	Adapter	CU-52JT	SA580

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	SA580



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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