RF TEST REPORT



Report No.: 15050043-FCC-R4
Supersede Report No.: N/A

Applicant	b mobile HK Limited			
Product Name	Mobile pho	Mobile phone		
Model No.	B1+			
Serial No.	AX1095			
Test Standard	FCC Part 1	5.247: 2014, ANSI C63.10: 2	013	
Test Date	November	November 06 to November 23, 2015		
Issue Date	November 23, 2015			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Winnie.	Winnie Zhang David Huang			
Winnie Zhang 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

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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
15050043-FCC-R4	NONE	Original	November 23, 2015

2. Customer information

Applicant Name	b mobile HK Limited	
Applicant Add	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai	
	Chung;New Territories; Hong Kong	
Manufacturer	b mobile HK Limited	
Manufacturer Add	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai	
	Chung;New Territories; Hong Kong	

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	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile phone

Main Model: B1+

Serial Model: AX1095

Date EUT received: November 05, 2015

Test Date(s): November 06 to November 23, 2015

Equipment Category : DTS

GSM850: -1dBi PCS1900: 0 dBi

UMTS-FDD Band V: 0 dBi UMTS-FDD Band IV: 0.5 dBi UMTS-FDD Band II: 0.5 dBi Bluetooth/BLE: 0.5 dBi

Antenna Gain: WIFI:0.5dBi

LTE Band 2: 0.5 dBi LTE Band 4: 0.5 dBi LTE Band 5: 0dBi LTE Band 7: 0.8 dBi LTE Band 12: 0 dBi

GPS:1.8 dBi

GSM / GPRS: GMSK EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM

Type of Modulation:

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

LTE Band: QPSK, 16QAM

GPS:BPSK



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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

WIFI:802.11b/g/n(20M): 2412-2472 MHz RF Operating Frequency (ies):

WIFI:802.11n(40M): 2422-2462 MHz

Bluetooth& BLE: 2402-2480 MHz

LTE Band 2 TX: 1852.5 ~ 1907.5 MHz; RX : 1932.5 ~ 1987.5 MHz LTE Band 4 TX: 1712.5 ~ 1752.5 MHz; RX : 2112.5 ~ 2152.5 MHz

LTE Band 5 TX: 826.5 ~ 846.5 MHz; RX: 871.5 ~ 891.5 MHz

LTE Band 7 TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz

LTE Band 12 TX:699.7 ~ 715.3 MHz; RX: 729.7~ 745.3MHz

GPS RX:1575.42 MHz

Max. Output Power: -1.102dBm

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): 13CH

WIFI:802.11n(40M):9CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: Power Port, Earphone Port, USB Port

Trade Name : Bmobile

Number of Channels:



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Adapter:

Model: UD2AA50150

Input: AC 100-240V; 50/60Hz; 250mA

Input Power:
Output: DC 5.0V,1.5A

Battery:

Spec: 3000mAh/11.4wh+

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

FCC ID: ZSW-30-018



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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 Compli	
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power Comp	
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted	Compliance
	Frequency Bands	
§15.207 (a),	AC Power Line Conducted Emissions Comp	
§15.205, §15.209,	Radiated Spurious Emissions & Unwanted Emissions	Compliance
§15.247(d)	into Restricted Frequency Bands	

Measurement Uncertainty

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



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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 3 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 0.5dBi for Bluetooth/BLE, the gain is 0.5dBi for WIFI.

A permanently attached PIFA antenna for GSM/PCS/LTE and UMTS, the gain is -1dBi for GSM850, 0dBi for PCS1900,0dBi for UMTS-FDD Band V, 0.5dBi for UMTS-FDD Band IV, 0.5dBi for UMTS-FDD Band II, 0.5dBi for LTE Band 2, 0.5dBi for LTE Band 4, 0dBi for LTE Band 5, 0.8dBi for LTE Band 7, 0dBi for LTE Band 12

A permanently attached PIFA antenna for GPS, the gain is 1.8dBi for GPS.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	22°C	
Relative Humidity	55%	
Atmospheric Pressure	1013mbar	
Test date :	November 13, 2015	
Tested By :	Winnie Zhang	

Spec	Item Requirement Applical			
§ 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 v03r02, 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	Pas	ss Fail		

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



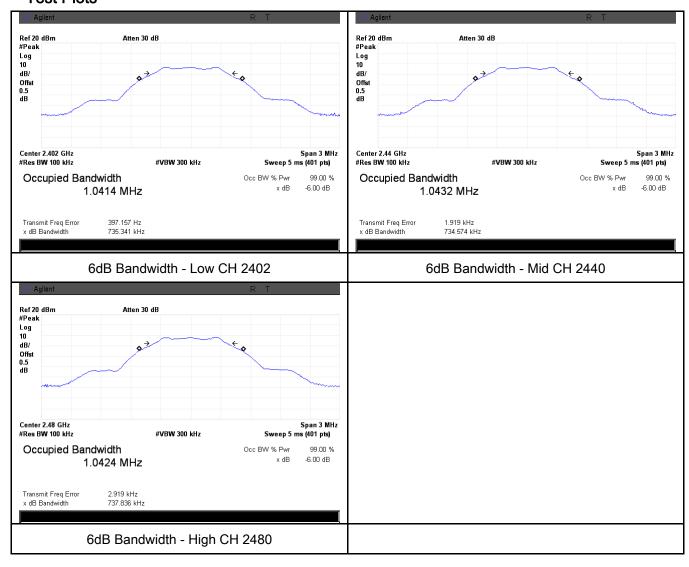
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6dB Bandwidth measurement result

Test Data

СН	Freq (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	735.341	1.0414
Mid	2440	734.574	1.0432
High	2480	737.836	1.0424

Test Plots





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6.3 Maximum Output Power

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	November 13, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Item Requirement Applicable		
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt		
	b)) FHSS in 5725-5850MHz: ≤ 1 Watt		
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125		
§15.247(b)		Watt.		
(2),RSS210	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt		
(A8.4)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25		
		Watt		
	f)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz:	V	
		≤ 1 Watt		
Test Setup	Spectrum Analyzer EUT			
	558074 D01 DTS MEAS Guidance v03r02, 9.1.2 Integrated band power method			
	Maximum output power measurement procedure			
		a) Set the RBW ≥ DTS bandwidth.		
Test	'	b) Set VBW ≥ 3 × RBW.		
Procedure	c) Set span ≥ 3 x RBW d) Sweep time = auto couple.			
Frocedure	e) Detector = peak.			
	f) Trace mode = max hold.			
	g) Allow trace to fully stabilize.			
	h) Use p	peak marker function to determine the peak amplitude level.		
Remark				



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Result	Pass	☐ Fail		

Test Data Yes

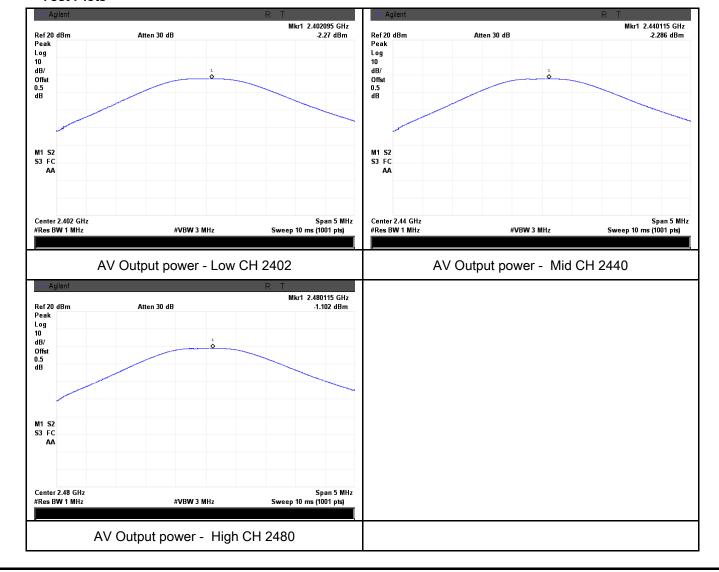
Test Plot Yes (See below)

Output Power measurement result

Test Data

Туре	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-2.270	30	Pass
Output	Mid	2440	- 2.286	30	Pass
power	High	2480	-1.102	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	November 13, 2015
Tested By:	Winnie Zhang

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		D01 DTS MEAS Guidance v03r02, 10.2 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 amplitue the RBW. j) If measured value exceeds limit, reduce RBW (no less than 3 kHz)	de level within
Remark			•
Result	Pas	ss Fail	

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



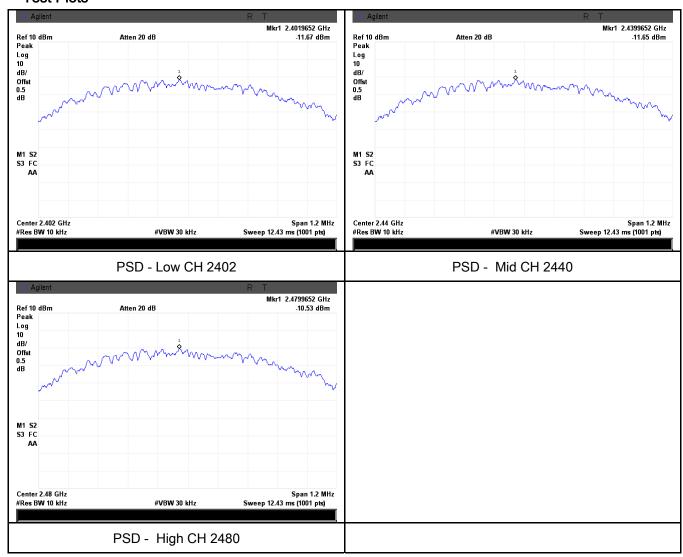
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Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
	Low	2402	-11.67	8	Pass
PSD	Mid	2440	- 11.65	8	Pass
	High	2480	-10.53	8	Pass

Test Plots





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6.5 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

Temperature	23°C		
Relative Humidity	51%		
Atmospheric Pressure	1018mbar		
Test date :	November 18, 2015		
Tested By :	Winnie Zhang		

Requirement(s):

Spec	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.					



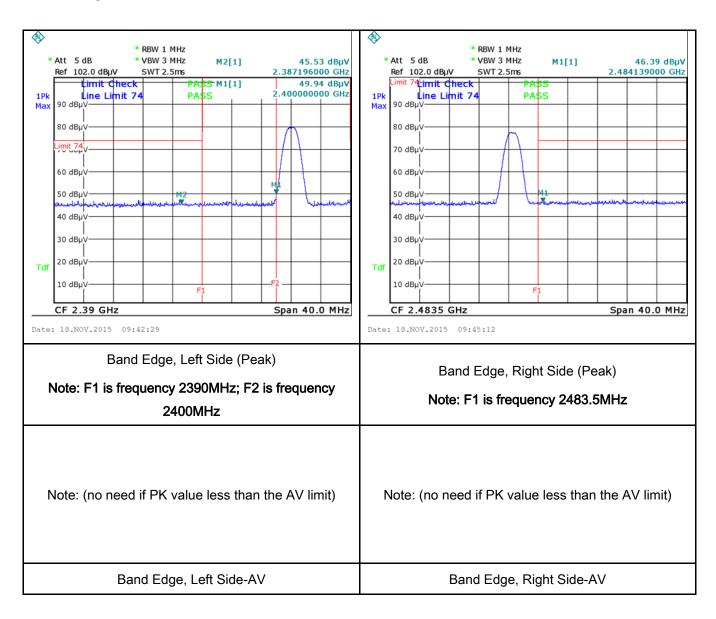
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	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a				
	convenient frequency span including 100kHz bandwidth from band edge, check				
	the emission of EUT, if pass then set Spectrum Analyzer as below:				
	a. The resolution bandwidth 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	res N/A				
Test Plot	res (See below)				



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Test Plots Band Edge measurement result





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6.6 AC Power Line Conducted Emissions

Temperature	23°C		
Relative Humidity	51%		
Atmospheric Pressure	1018mbar		
Test date :	November 18, 2015		
Tested By :	Winnie Zhang		

Requirement(s):

Spec	Item	Requirement Applicable						
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-freconnected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at the Frequency ranges (MHz) 0.15 ~ 0.5 0.5 ~ 5 5 ~ 30						
Test Setup	Vertical 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							
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 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 							



Test Plot

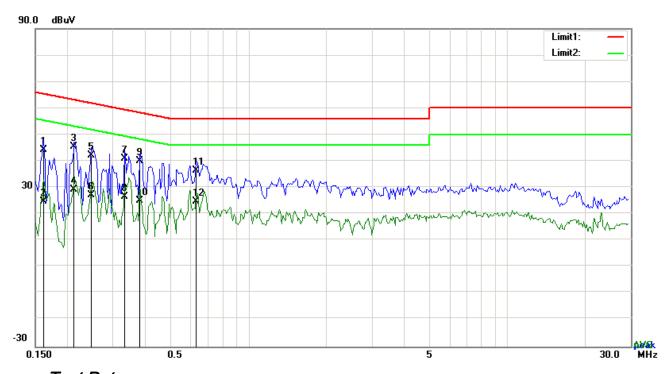
Yes (See below)

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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				



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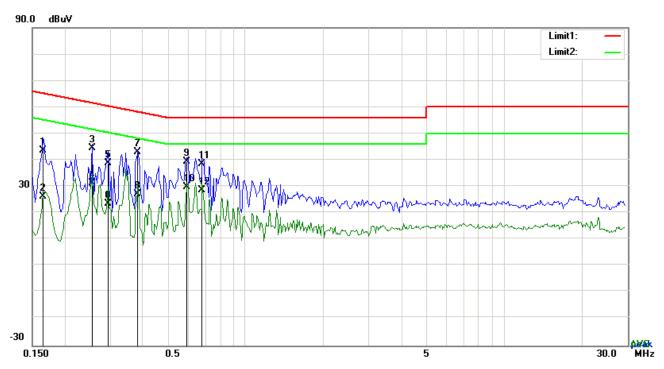
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1617	34.10	QP	10.03	44.13	65.38	-21.25
2	L1	0.1617	14.80	AVG	10.03	24.83	55.38	-30.55
3	L1	0.2124	35.39	QP	10.03	45.42	63.11	-17.69
4	L1	0.2124	19.16	AVG	10.03	29.19	53.11	-23.92
5	L1	0.2475	32.03	QP	10.03	42.06	61.84	-19.78
6	L1	0.2475	17.18	AVG	10.03	27.21	51.84	-24.63
7	L1	0.3333	30.84	QP	10.03	40.87	59.37	-18.50
8	L1	0.3333	16.45	AVG	10.03	26.48	49.37	-22.89
9	L1	0.3801	29.90	QP	10.03	39.93	58.28	-18.35
10	L1	0.3801	14.91	AVG	10.03	24.94	48.28	-23.34
11	L1	0.6297	26.52	QP	10.03	36.55	56.00	-19.45
12	L1	0.6297	14.85	AVG	10.03	24.88	46.00	-21.12



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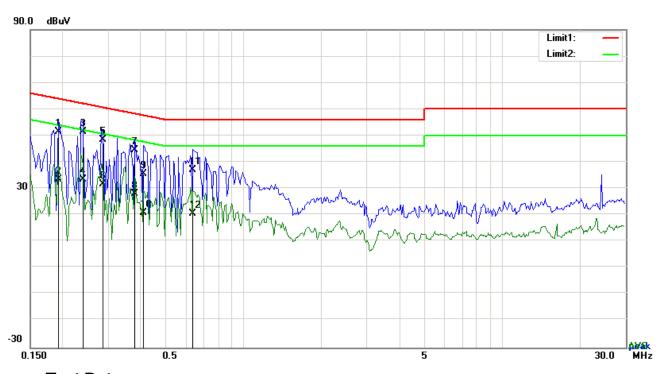
Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	N	0.1656	33.77	QP	10.02	43.79	65.18	-21.39
2	N	0.1656	16.30	AVG	10.02	26.32	55.18	-28.86
3	N	0.2553	34.67	QP	10.02	44.69	61.58	-16.89
4	N	0.2553	21.32	AVG	10.02	31.34	51.58	-20.24
5	N	0.2943	28.68	QP	10.02	38.70	60.40	-21.70
6	N	0.2943	13.64	AVG	10.02	23.66	50.40	-26.74
7	N	0.3840	32.91	QP	10.02	42.93	58.19	-15.26
8	N	0.3840	17.08	AVG	10.02	27.10	48.19	-21.09
9	N	0.5946	29.34	QP	10.02	39.36	56.00	-16.64
10	N	0.5946	19.78	AVG	10.02	29.80	46.00	-16.20
11	N	0.6804	28.59	QP	10.02	38.61	56.00	-17.39
12	N	0.6804	18.73	AVG	10.02	28.75	46.00	-17.25



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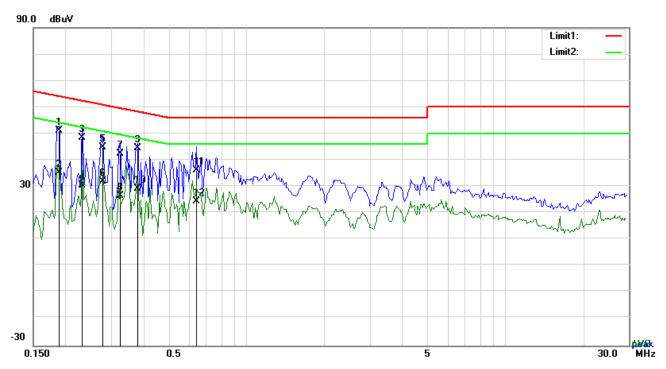
Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1929	41.42	QP	10.03	51.45	63.91	-12.46
2	L1	0.1929	23.47	AVG	10.03	33.50	53.91	-20.41
3	L1	0.2397	41.30	QP	10.03	51.33	62.11	-10.78
4	L1	0.2397	23.43	AVG	10.03	33.46	52.11	-18.65
5	L1	0.2865	38.57	QP	10.03	48.60	60.63	-12.03
6	L1	0.2865	21.74	AVG	10.03	31.77	50.63	-18.86
7	L1	0.3801	34.56	QP	10.03	44.59	58.28	-13.69
8	L1	0.3801	18.09	AVG	10.03	28.12	48.28	-20.16
9	L1	0.4113	25.62	QP	10.03	35.65	57.62	-21.97
10	L1	0.4113	10.93	AVG	10.03	20.96	47.62	-26.66
11	L1	0.6375	26.98	QP	10.03	37.01	56.00	-18.99
12	L1	0.6375	10.67	AVG	10.03	20.70	46.00	-25.30



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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	N	0.1890	41.19	QP	10.02	51.21	64.08	-12.87
2	Ζ	0.1890	25.10	AVG	10.02	35.12	54.08	-18.96
3	N	0.2319	38.52	QP	10.02	48.54	62.38	-13.84
4	N	0.2319	20.45	AVG	10.02	30.47	52.38	-21.91
5	N	0.2787	34.86	QP	10.02	44.88	60.85	-15.97
6	N	0.2787	22.07	AVG	10.02	32.09	50.85	-18.76
7	N	0.3255	32.40	QP	10.02	42.42	59.57	-17.15
8	N	0.3255	16.62	AVG	10.02	26.64	49.57	-22.93
9	N	0.3801	34.41	QP	10.02	44.43	58.28	-13.85
10	N	0.3801	19.23	AVG	10.02	29.25	48.28	-19.03
11	N	0.6414	26.24	QP	10.02	36.26	56.00	-19.74
12	N	0.6414	14.58	AVG	10.02	24.60	46.00	-21.40



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6.7 Radiated Spurious Emissions

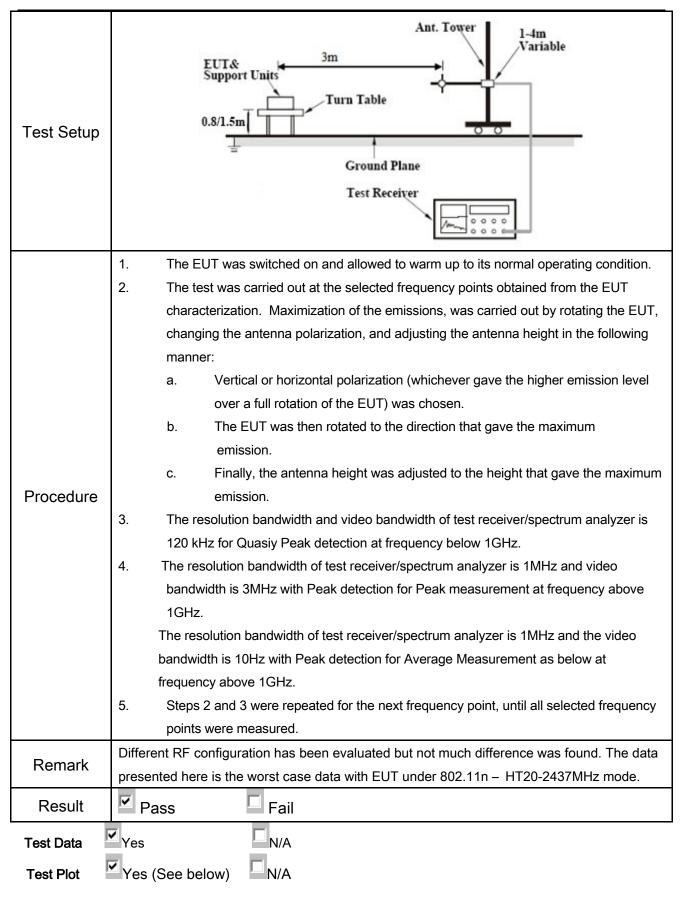
Temperature	23°C
Relative Humidity	51%
Atmospheric Pressure	1018mbar
Test date :	November 18, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable	
	a)	Except higher limit as specified els emissions from the low-power radi exceed the field strength levels spethe level of any unwanted emission the fundamental emission. The tigledges	(
	"	Frequency range (MHz)	Field Strength (μV/m)	
		30 - 88	100	
		88 – 216	150	
47CFR§15.		216 960	200	
247(d),		Above 960	500	
RSS210		For non-restricted band, In any 10		
		frequency band in which the sprea		
(A8.5)		modulated intentional radiator is or		
		power that is produced by the inter		
	b)	20 dB or 30dB below that in the 10	00 kHz bandwidth within the	V
		band that contains the highest leve		
		determined by the measurement n		
		used. Attenuation below the gener		
		is not required		
		20 dB down 30	dB down	
	6)	or restricted band, emission must a	also comply with the radiated	
	c)	emission limits specified in 15.209		



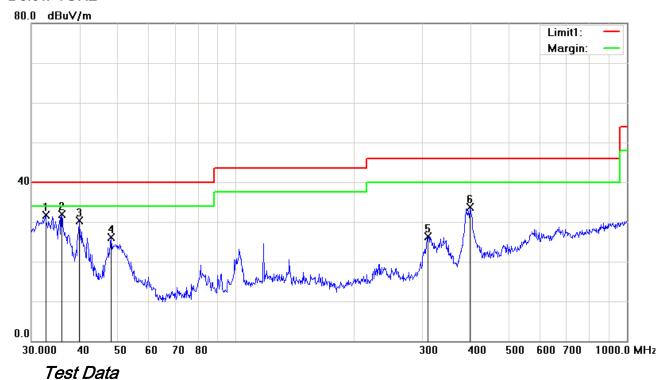
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Below 1GHz



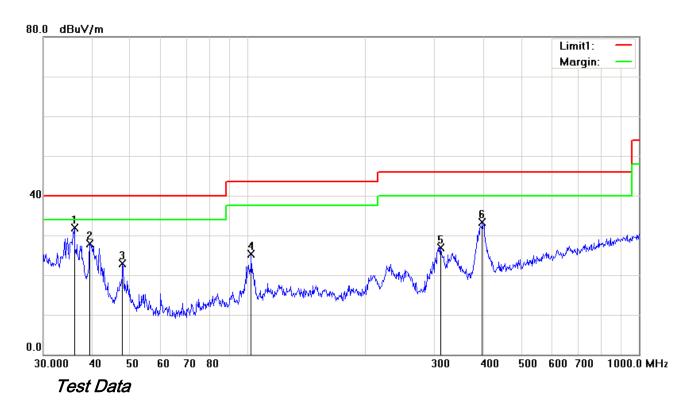
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Detec tor	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	V	32.6340	33.93	peak	-2.20	31.73	40.00	-8.27	100	79
2	V	35.8747	36.43	peak	-4.58	31.85	40.00	-8.15	100	173
3	V	39.7147	37.67	peak	-7.38	30.29	40.00	-9.71	100	263
4	V	47.9940	38.41	peak	-12.28	26.13	40.00	-13.87	100	334
5	V	309.9977	32.89	peak	-6.61	26.28	46.00	-19.72	100	229
6	V	397.6334	37.98	peak	-4.36	33.62	46.00	-12.38	100	72



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Below 1GHz



Horizontal Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Dete ctor	Correcte d (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	Н	36.0007	36.50	peak	-4.67	31.83	40.00	-8.17	100	171
2	Н	39.4372	34.99	peak	-7.18	27.81	40.00	-12.19	100	360
3	Н	47.8260	35.09	peak	-12.20	22.89	40.00	-17.11	100	122
4	Н	102.0014	35.79	peak	-10.44	25.35	43.50	-18.15	100	235
5	Н	311.0867	33.55	peak	-6.58	26.97	46.00	-19.03	100	227
6	Н	397.6334	37.75	peak	-4.36	33.39	46.00	-12.61	100	257



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Test Mode: Transmitting 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	38.16	AV	V	33.83	6.86	31.72	47.13	54	-6.87
4804	37.92	AV	Н	33.83	6.86	31.72	46.89	54	-7.11
4804	46.52	PK	٧	33.83	6.86	31.72	55.49	74	-18.51
4804	46.19	PK	Н	33.83	6.86	31.72	55.16	74	-18.84

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	38.21	AV	V	33.86	6.82	31.82	47.07	54	-6.93
4880	37.88	AV	Η	33.86	6.82	31.82	46.74	54	-7.26
4880	46.43	PK	V	33.86	6.82	31.82	55.29	74	-18.71
4880	46.11	PK	Η	33.86	6.82	31.82	54.97	74	-19.03

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	38.17	AV	V	33.9	6.76	31.92	46.91	54	-7.09
4960	37.93	AV	Н	33.9	6.76	31.92	46.67	54	-7.33
4960	46.52	PK	٧	33.9	6.76	31.92	55.26	74	-18.74
4960	46.08	PK	Н	33.9	6.76	31.92	54.82	74	-19.18



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Annex A. TEST INSTRUMENT

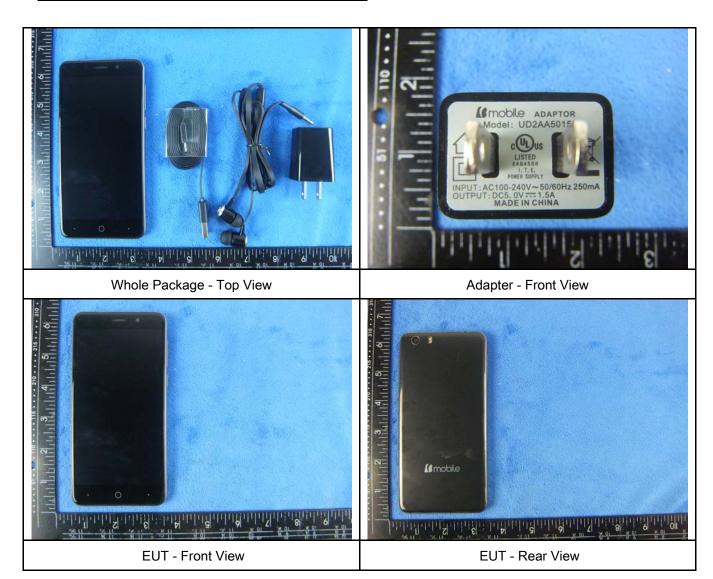
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<u><</u>
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	<u> </u>
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	~
LISN	ISN T800	34373	09/25/2015	09/24/2016	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	\
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	~
Power Splitter	1#	1#	09/01/2015	08/31/2016	<u><</u>
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	<u><</u>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	~
Positioning Controller	UC3000	MF780208282	11/20/2014	11/19/2015	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	•
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	<u><</u>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<u>\</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	V
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	V



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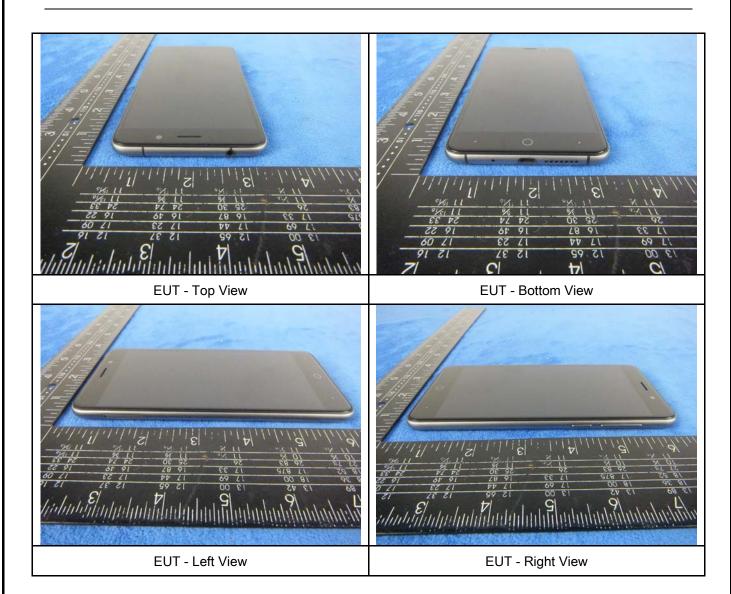
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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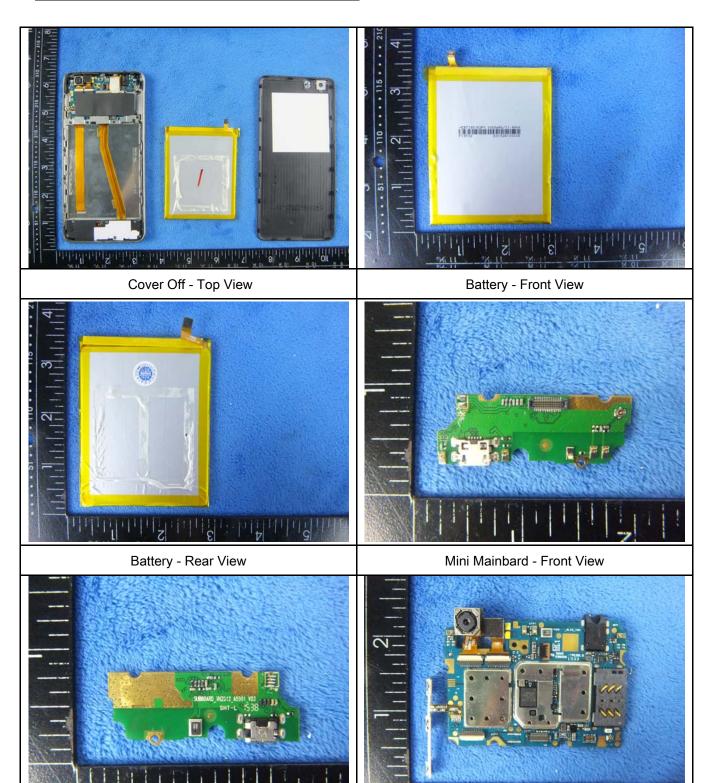


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Mainbard with Shielding - Front View

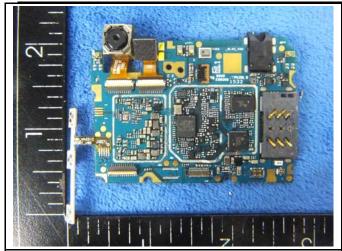
Annex B.ii. Photograph: EUT Internal Photo

Mini Mainbard - Rear View



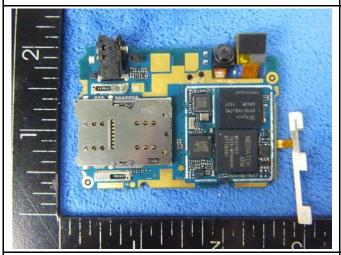


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Mainbard without Shielding - Front View

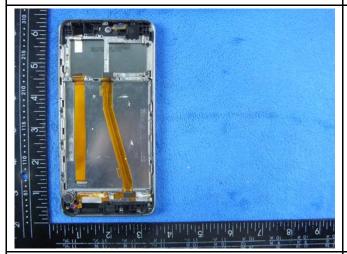
Mainbard with Shielding - Rear View

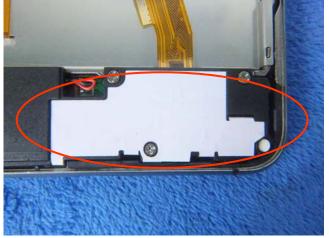




Mainbard without Shielding - Rear View

LCD - Front View



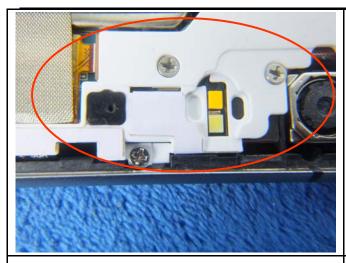


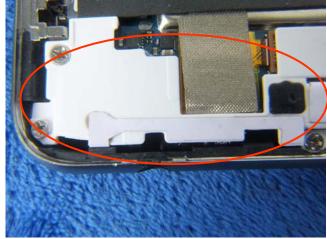
LCD - Rear View

GSM/PCS/UMTS-FDD/LTE Antenna View



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WIFI/BT/BLE - Antenna View

GPS - Antenna View

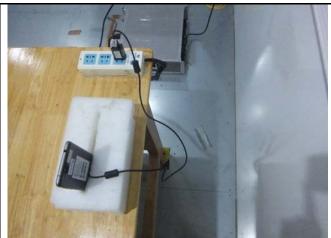


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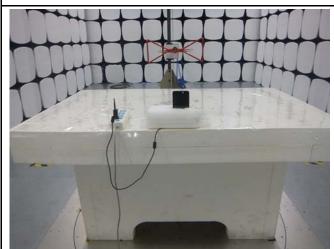
Annex B.iii. Photograph: Test Setup Photo



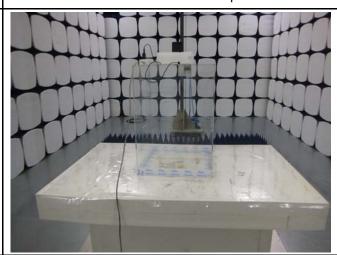
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

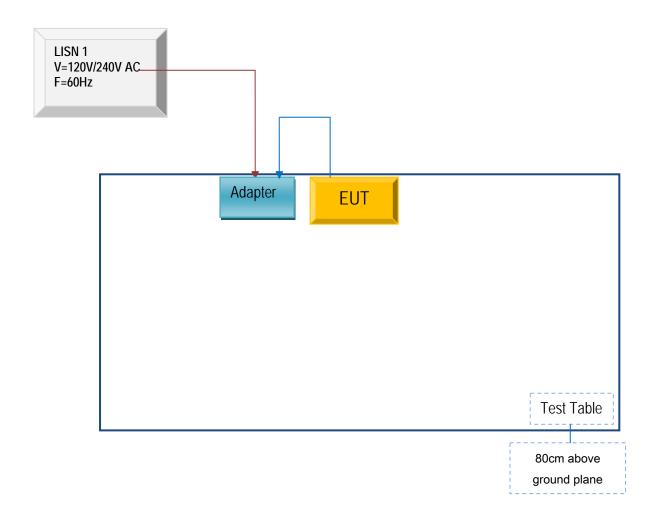


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

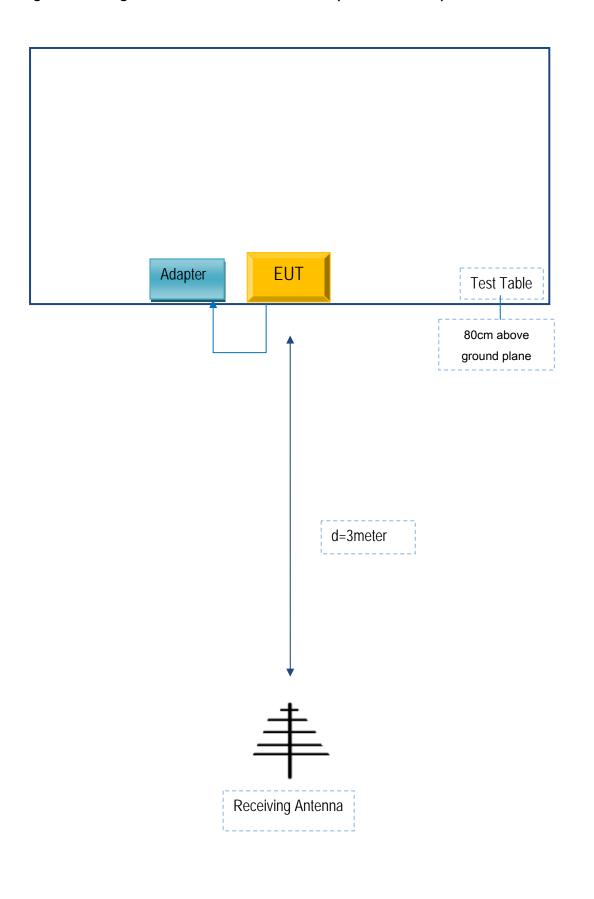
Block Configuration Diagram for AC Line Conducted Emissions





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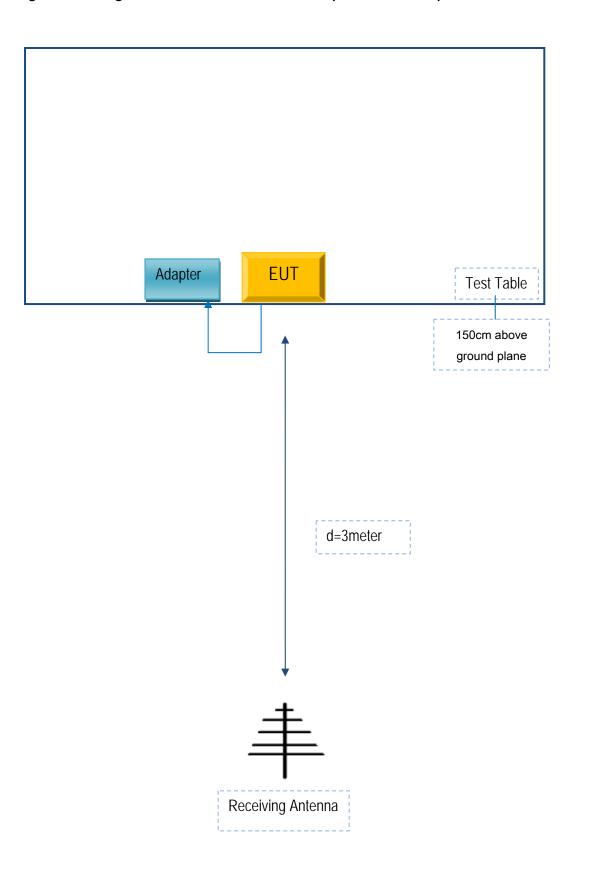
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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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.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



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

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

As shown below

To SIEMIC Inc 775 Montague Expressway Milpitas, CA 95035.

Statement

We, <u>b Mobile HK Limited</u> apply a multiple-listing certification for the below models.

Product Name: Mobile phone

Model number: AX1095/B1+

FCC ID: ZSW-30-018

We hereby state that these models are identical in interior structure, electrical circuits and components, and just model name is different for the marketing requirement.

Your assistance anythis matter is highly appreciated.

b mobile HK Limited

Sincerely, Authorized Signature(s)

Name: KA SHING LAM

Title: Director Signature: