RF TEST REPORT



Report No.: 15050022-FCC-R4

Applicant	b mobile H	K Limited		
Product Name	Mobile Phone			
Model No.	AX600			
Serial No.	AX630			
Test Standard	FCC Part 1	5.247: 2014,	ANSI C63.10: 2	2013
Test Date	June 10 to	June 24,201	5	
Issue Date	June 24,20	15		
Test Result	Pass Fail			
Equipment compl	ied with the	specification	V	
Equipment did no	t comply witl	h the specific	ation	
Lucifor. H	te	David	Huang	
Lucifer He 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
15050022-FCC-R4	NONE	Original	June 24, 2015

2. Customer information

Applicant Name	b mobile HK Limited	Socia	Mob
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: AX600

Serial Model: AX630

Date EUT received: June 10,2015

Equipment Category: DTS

GSM850: -1.18dBi

PCS1900: 0.06dBi

UMTS-FDD Band V: -1.79dBi

Antenna Gain:

UMTS-FDD Band II: -0.2dBi

Bluetooth/BLE:0.03dBi

WIFI: 0.03 dBi GPS: -1.76 dBi

Battery:

Model: AX600

Spec: 3.8V, 1250 mAh 4.75Wh

Input Power:

Adapter:

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

Output:DC5.0V, 0.7A

Trade Name : Bmobile

FCC ID: ZSW-30-009



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Max. Output Power: -2.993dBm

GSM / GPRS: GMSK

EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK, 16QAM

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

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

RF Operating Frequency (ies): RX: 1932.4 ~ 1987.6 MHz

WIFI:802.11b/g/n(20M): 2412-2472 MHz WIFI:802.11n(40M): 2422-2462 MHz Bluetooth& BLE: 2402-2480 MHz

GPS RX: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): 13CH

WIFI:802.11n(40M):9CH

Bluetooth: 79CH

BLE: 40CH

Port: Power Port, Earphone Port, USB Port

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 Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions Compliance	
§15.205, §15.209,	Radiated Spurious Emissions & Unwanted Emissions	Compliance
§15.247(d)	into Restricted Frequency Bands	

Measurement Uncertainty

Emissions		
Test Item	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 2 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 0.03dBi for Bluetooth/BLE/WIFI. A permanently attached PIFA antenna for GSM and UMTS, the gain is -1.18dBi for GSM850, -1.79dBi for UMTS-FDD Band V,0.06dBi for PCS1900, the gain is -0.2dBi for UMTS-FDD Band II

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	21°C	
Relative Humidity	51%	
Atmospheric Pressure	1023mbar	
Test date :	June 23, 2015	
Tested By :	Lucifer He	

Spec	Item	n Requirement Applicab			
§ 15.247(a)(2)	a)	6dB BW≥ 500kHz;			
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	V		
Test Setup	Spectrum Analyzer EUT				
Test Procedure	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}



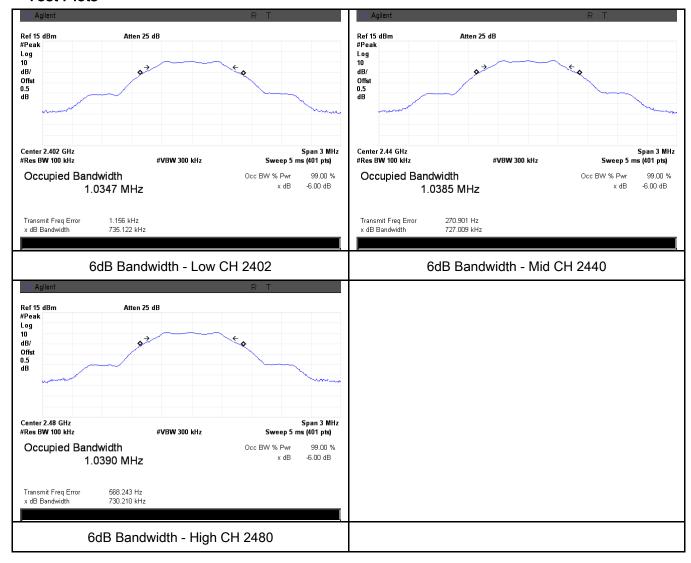
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6dB Bandwidth measurement result

Test Data

СН	Freq (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	735.1	1.0347
Mid	2440	727.0	1.0385
High	2480	730.2	1.0390

Test Plots





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6.3 Maximum Output Power

Temperature	21°C
Relative Humidity	51%
Atmospheric Pressure	1023mbar
Test date :	June 23, 2015
Tested By :	Lucifer He

Requirement(s):

Spec	Item	Requirement	Applicable	
	a)	a) FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt		
	b)	o) FHSS in 5725-5850MHz: ≤ 1 Watt		
0.4= 0.4=(1.)	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.			
	c) Set span ≥ 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 peak marker function to determine the peak amplitude level.			
Remark	, '	· · ·		



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r			
l		□	
Result	l 💾 Pass	≔ Fail	

Test Data Yes

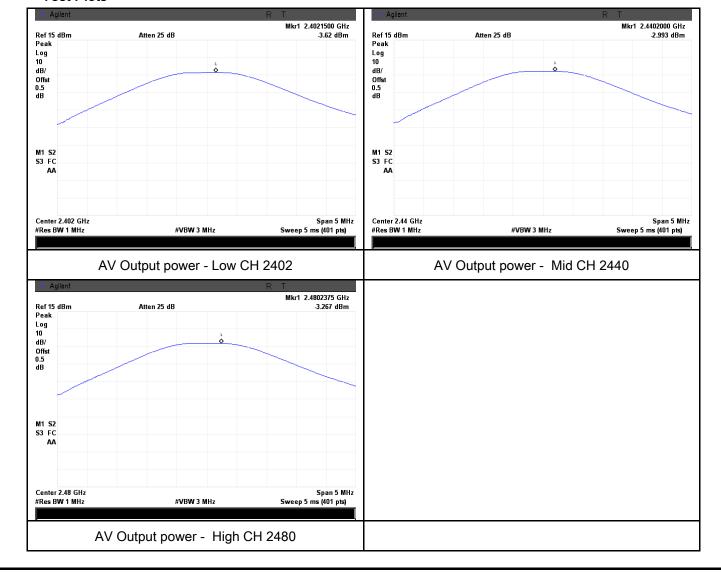
Test Plot Yes (See below)

Output Power measurement result

Test Data

Туре	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-3.62	30	Pass
Output	Mid	2440	-2.993	30	Pass
power	High	2480	-3.267	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	21°C
Relative Humidity	51%
Atmospheric Pressure	1023mbar
Test date :	June 23, 2015
Tested By:	Lucifer He

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}



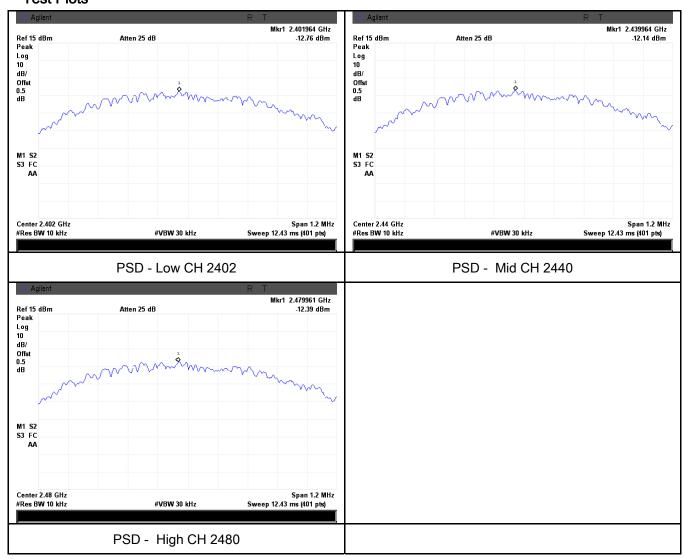
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Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
	Low	2402	-12.76	8	Pass
PSD	Mid	2440	-12.14	8	Pass
	High	2480	-12.39	8	Pass

Test Plots





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

Temperature	21°C
Relative Humidity	51%
Atmospheric Pressure	1023mbar
Test date :	June 23, 2015
Tested By :	Lucifer He

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(d)	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 Ground Plane Test Receiver	e
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.		



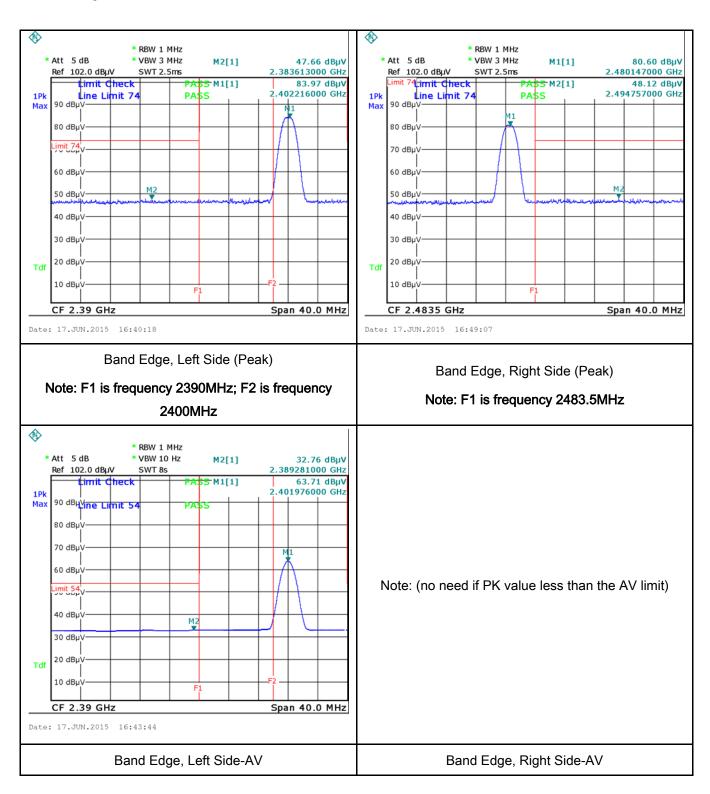
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	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
	convenient frequency span including 100kHz bandwidth from band edge, check
	the emission of EUT, if pass then set Spectrum Analyzer as below:
	a. The resolution bandwidth and 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.
	S. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	Pass Fail
	•
	1.
Test Data	Yes 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	20°C
Relative Humidity	59%
Atmospheric Pressure	1017mbar
Test date :	June 17, 2015
Tested By:	Lucifer He

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15. 207, RSS210 (A8.1)	a)	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. Frequency ranges Limit (dBµV) QP Average			
		0.15 ~ 0.5 0.5 ~ 5	66 – 56 56	56 – 46 46	
		5 ~ 30	60	50	
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 				



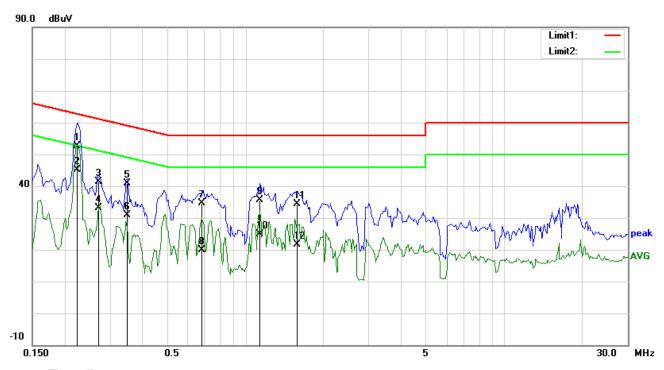
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	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth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



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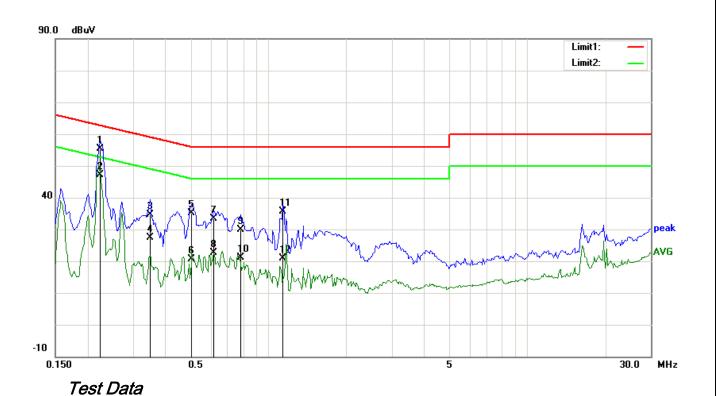
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Comment)
1	L1	0.2242	39.77	QP	12.92	52.69	62.66	-9.97	
2	L1	0.2242	32.28	AVG	12.92	45.20	52.66	-7.46	
3	L1	0.2711	28.74	QP	12.75	41.49	61.08	-19.59	
4	L1	0.2711	20.38	AVG	12.75	33.13	51.08	-17.95	
5	L1	0.3492	28.33	QP	12.46	40.79	58.98	-18.19	
6	L1	0.3492	18.44	AVG	12.46	30.90	48.98	-18.08	
7	L1	0.6813	22.81	QP	11.72	34.53	56.00	-21.47	
8	L1	0.6813	8.13	AVG	11.72	19.85	46.00	-26.15	
9	L1	1.1383	24.28	QP	11.40	35.68	56.00	-20.32	
10	L1	1.1383	13.48	AVG	11.40	24.88	46.00	-21.12	
11	L1	1.5914	22.97	QP	11.40	34.37	56.00	-21.63	
12	L1	1.5914	10.11	AVG	11.40	21.51	46.00	-24.49	



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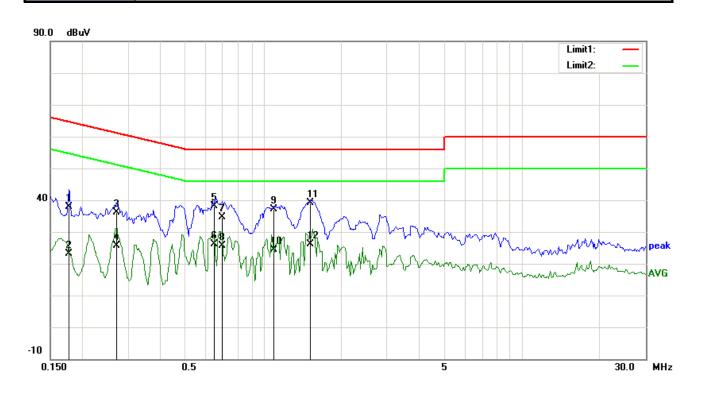


Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Comment)
1	N	0.2242	42.54	QP	12.92	55.46	62.66	-7.20	
2	N	0.2242	34.32	AVG	12.92	47.24	52.66	-5.42	
3	N	0.3492	22.20	QP	12.46	34.66	58.98	-24.32	
4	N	0.3492	14.89	AVG	12.46	27.35	48.98	-21.63	
5	N	0.5055	23.24	QP	11.89	35.13	56.00	-20.87	
6	N	0.5055	8.68	AVG	11.89	20.57	46.00	-25.43	
7	N	0.6148	21.57	QP	11.79	33.36	56.00	-22.64	
8	N	0.6148	10.96	AVG	11.79	22.75	46.00	-23.25	
9	N	0.7828	18.32	QP	11.62	29.94	56.00	-26.06	
10	N	0.7828	9.39	AVG	11.62	21.01	46.00	-24.99	
11	N	1.1383	24.25	QP	11.42	35.67	56.00	-20.33	
12	N	1.1383	9.35	AVG	11.42	20.77	46.00	-25.23	



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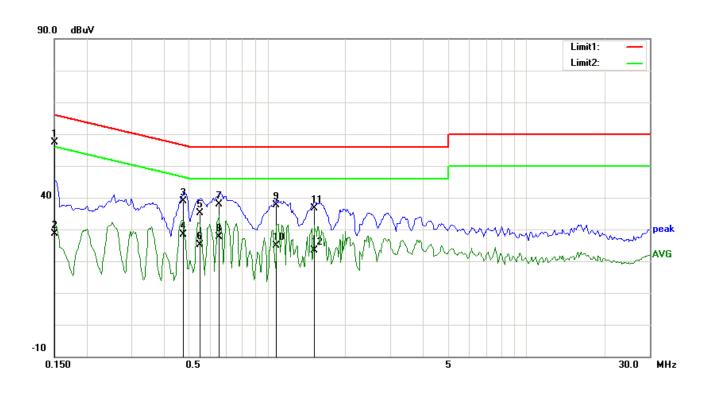
Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Comment)
1	L1	0.1773	24.82	QP	13.10	37.92	64.61	-26.69	
2	L1	0.1773	10.08	AVG	13.10	23.18	54.61	-31.43	
3	L1	0.2711	23.47	QP	12.75	36.22	61.08	-24.86	
4	L1	0.2711	12.89	AVG	12.75	25.64	51.08	-25.44	
5	L1	0.6422	26.45	QP	11.76	38.21	56.00	-17.79	
6	L1	0.6422	14.42	AVG	11.76	26.18	46.00	-19.82	
7	L1	0.6969	22.84	QP	11.70	34.54	56.00	-21.46	
8	L1	0.6969	13.96	AVG	11.70	25.66	46.00	-20.34	
9	L1	1.0992	25.67	QP	11.40	37.07	56.00	-18.93	
10	L1	1.0992	12.99	AVG	11.40	24.39	46.00	-21.61	
11	L1	1.5250	27.70	QP	11.40	39.10	56.00	-16.90	
12	L1	1.5250	14.67	AVG	11.40	26.07	46.00	-19.93	



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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)	Comment)
1	N	0.1500	44.15	QP	13.20	57.35	66.00	-8.65	
2	N	0.1500	15.34	AVG	13.20	28.54	56.00	-27.46	
3	N	0.4742	26.79	QP	12.00	38.79	56.44	-17.65	
4	N	0.4742	16.47	AVG	12.00	28.47	46.44	-17.97	
5	N	0.5493	23.40	QP	11.85	35.25	56.00	-20.75	
6	N	0.5493	13.29	AVG	11.85	25.14	46.00	-20.86	
7	Ν	0.6539	26.03	QP	11.75	37.78	56.00	-18.22	
8	N	0.6539	15.79	AVG	11.75	27.54	46.00	-18.46	
9	N	1.0875	26.24	QP	11.41	37.65	56.00	-18.35	
10	N	1.0875	13.35	AVG	11.41	24.76	46.00	-21.24	
11	N	1.5172	25.08	QP	11.46	36.54	56.00	-19.46	
12	N	1.5172	11.92	AVG	11.46	23.38	46.00	-22.62	



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6.7 Radiated Spurious Emissions

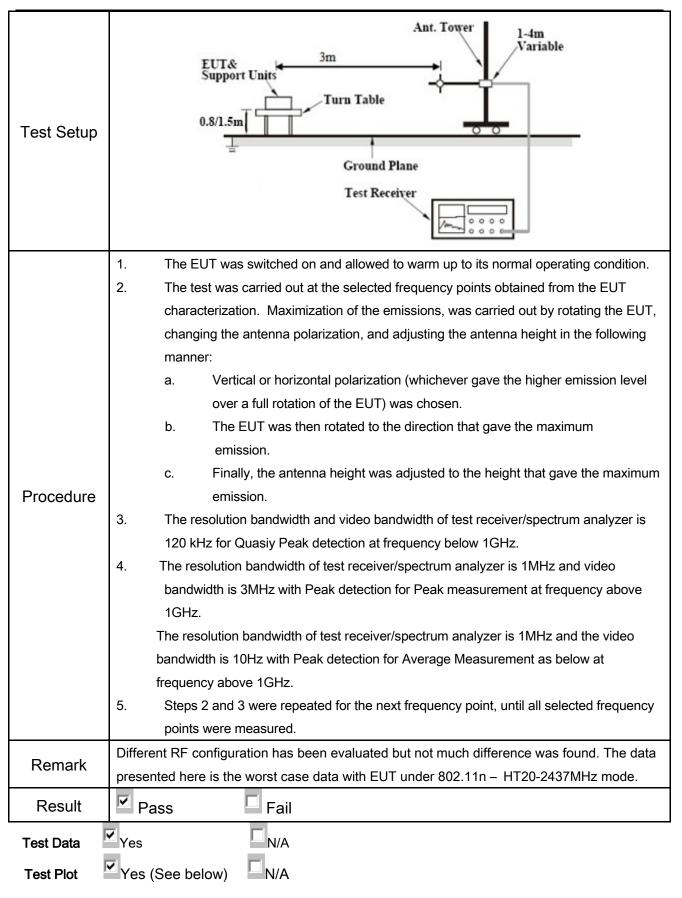
Temperature	20°C
Relative Humidity	59%
Atmospheric Pressure	1017mbar
Test date :	June 17, 2015
Tested By :	Lucifer He

Requirement(s):

Spec	Item	Requirement		Applicable
47CFR§15.	a)	Except higher limit as specified el emissions from the low-power rac exceed the field strength levels specified the level of any unwanted emission. The tige edges Frequency range (MHz) 30 – 88 88 – 216 216 960 Above 960	dio-frequency devices shall not becified in the following table and ons shall not exceed the level of	
247(d), RSS210 (A8.5)	b)	For non-restricted band, In any 10 frequency band in which the spreamodulated intentional radiator is compower that is produced by the interest 20 dB or 30dB below that in the 1 band that contains the highest levidetermined by the measurement cused. Attenuation below the generic is not required 20 dB down 3	200 kHz bandwidth outside the ad spectrum or digitally operating, the radio frequency entional radiator shall be at least 200 kHz bandwidth within the vel of the desired power, method on output power to be eral limits specified in § 15.209(a) 20 dB down	V
	c)	or restricted band, emission must emission limits specified in 15.209	• •	>



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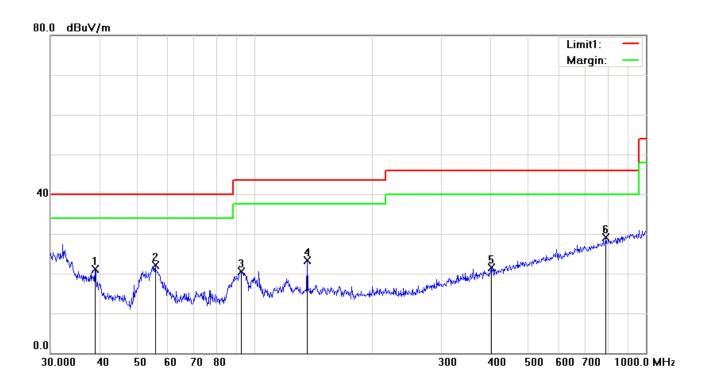




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Test Mode:	Transmitting Mode

Below 1GHz



Test Data

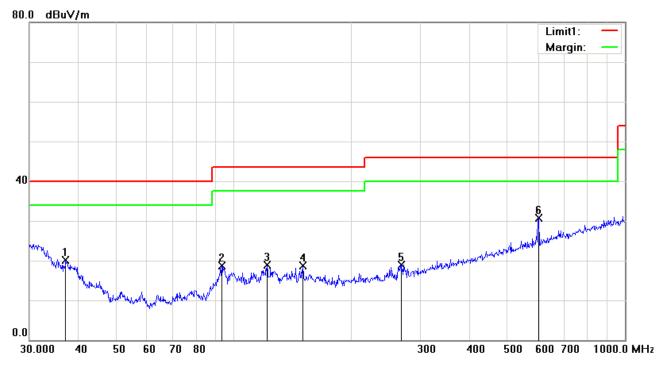
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Detec tor	Correcte d (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree	Com
1	V	39.0245	27.97	peak	-6.88	21.09	40.00	-18.91	200	201	
2	V	55.6094	35.86	peak	-13.84	22.02	40.00	-17.98	100	124	
3	V	92.4624	33.34	peak	-12.76	20.58	43.50	-22.92	100	147	
4	V	135.9822	31.52	peak	-8.30	23.22	43.50	-20.28	100	353	
5	V	401.8385	25.85	peak	-4.26	21.59	46.00	-24.41	200	40	
6	V	790.6188	26.14	peak	3.06	29.20	46.00	-16.80	139	360	



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Below 1GHz



Test Data

Horizontal Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Detec tor	Correcte d (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree	Com
1	Н	37.1550	25.70	peak	-5.51	20.19	40.00	-19.81	200	207	
2	Н	93.1132	31.26	peak	-12.60	18.66	43.50	-24.84	200	207	
3	Н	121.5486	26.20	peak	-7.39	18.81	43.50	-24.69	100	0	
4	Н	150.0108	27.04	peak	-8.40	18.64	43.50	-24.86	200	203	
5	Н	267.5455	27.24	peak	-8.39	18.85	46.00	-27.15	100	115	
6	Н	601.4265	30.68	peak	0.03	30.71	46.00	-15.29	100	179	



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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	39.95	AV	V	33.83	6.86	31.72	48.92	54	-5.08
4804	38.33	AV	Н	33.83	6.86	31.72	47.3	54	-6.7
4804	47.5	PK	V	33.83	6.86	31.72	56.47	74	-17.53
4804	46.78	PK	Н	33.83	6.86	31.72	55.75	74	-18.25

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	40.47	AV	V	33.86	6.82	31.82	49.33	54	-4.67
4880	40.75	AV	Н	33.86	6.82	31.82	49.61	54	-4.39
4880	47.79	PK	V	33.86	6.82	31.82	56.65	74	-17.35
4880	48.09	PK	Н	33.86	6.82	31.82	56.95	74	-17.05

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	40.54	AV	V	33.9	6.76	31.92	49.28	54	-4.72
4960	40.94	AV	Н	33.9	6.76	31.92	49.68	54	-4.32
4960	47.83	PK	V	33.9	6.76	31.92	56.57	74	-17.43
4960	47.23	PK	Н	33.9	6.76	31.92	55.97	74	-18.03



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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	09/18/2014	09/17/2015	•
Line Impedance	LI-125A	191106	09/26/2014	09/25/2015	~
Line Impedance	LI-125A	191107	09/26/2014	09/25/2015	~
LISN	ISN T800	34373	09/26/2014	09/25/2015	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	•
Transient Limiter	LIT-153	531118	09/02/2014	09/01/2015	•
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/18/2014	09/17/2015	•
Power Splitter	1#	1#	09/02/2014	09/01/2015	~
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	~
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	•
Positioning Controller	UC3000	MF780208282	11/20/2014	11/19/2015	V
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	•
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	\
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	\
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	<u>S</u>
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	V



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





Whole Package - Top View





EUT - Front View



EUT - Rear View

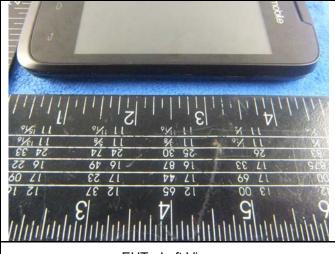


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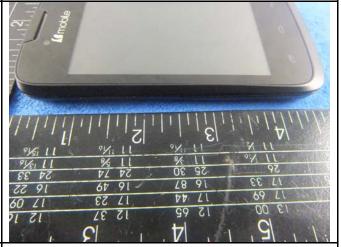


EUT - Top View

EUT - Bottom View



EUT - Left View



EUT - Right View



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Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View

Battery - Top View

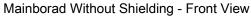




Battery - Bottom View

Mainborad With Shielding - Front View



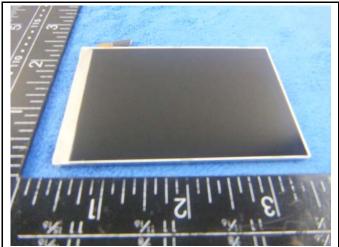




Mainborad - rear View



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26 25 30 24 74 11 38 11 18 11

LCD - Front View LCD - Rear View

LCD - Rear View





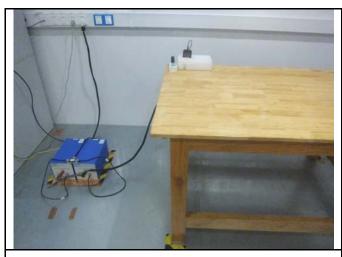
WIFI/BT/BLE - Antenna View

GSM/PCS/UMTS-FDD Antenna View



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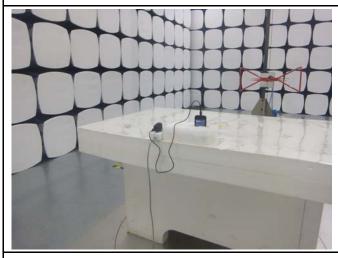
Annex B.iii. Photograph: Test Setup Photo



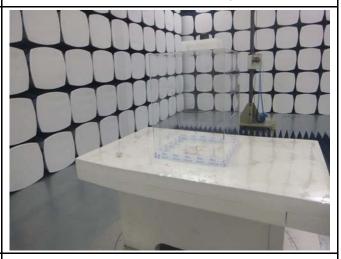
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

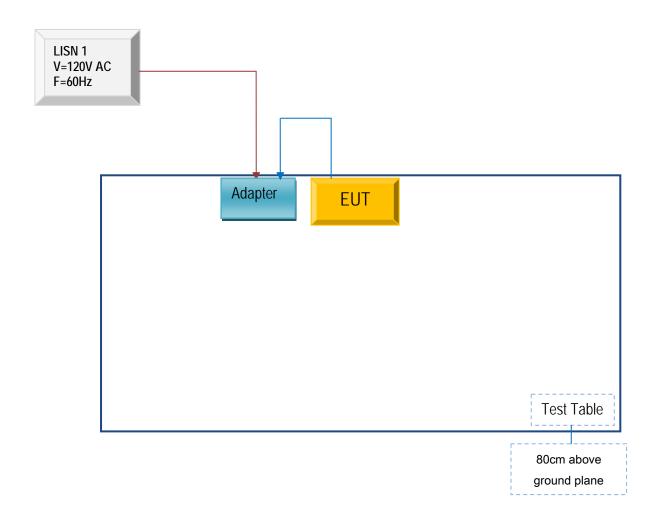


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

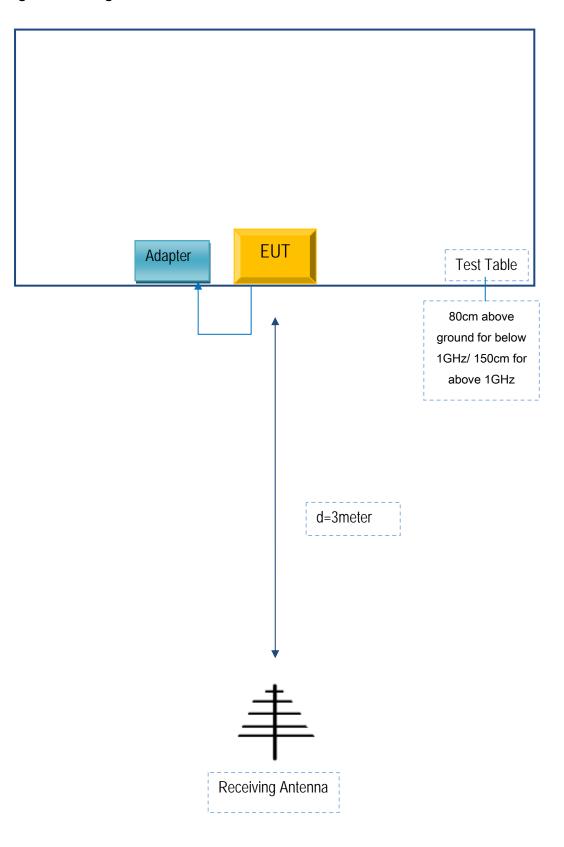
Block Configuration Diagram for AC Line Conducted Emissions





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Block Configuration Diagram for Radiated Emissions





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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

b Mobile HK Limited

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: AX600/ AX630

FCC ID: ZSW-30-009

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 on this matter is highly appreciated.

Sincerely,

Name: KA SHING LAN

Title: Director Signature: HK Limited

Audhowined Simustemate)