RF TEST REPORT



Report No.: 16070396-FCC-R4
Supersede Report No.: N/A

Social Mobile Telecommunications			
Mobile Phone			
X325			
N/A			
FCC Part 1	5.247: 2015, ANSI C63.10: 2	013	
April 23 to	April 23 to May 06, 2016		
May 09, 2016			
Pass Fail			
Equipment complied with the specification			
Equipment did not comply with the specification			
Winnie Zhang David Huang			
ang	David Huang		
	Mobile Photox325 N/A FCC Part 1 April 23 to 1 May 09, 20 Pass ied with the state comply with	Mobile Phone X325 N/A FCC Part 15.247: 2015, ANSI C63.10: 2 April 23 to May 06, 2016 May 09, 2016 Pass Fail ied with the specification t comply with the specification Amount of the process of	

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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
16070396-FCC-R4	NONE	Original	May 09, 2016

2. Customer information

Applicant Name	Social Mobile Telecommunications
Applicant Add	16400 NW 2nd Ave Suite 201 Miami, Florida 33169
Manufacturer	SMT TELECOMM HK LIMITED
Manufacturer Add	Unit C 8/F, CHARMHILL CTR 50 HILLWOOD RD TST KL

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: X325

Serial Model: N/A

Date EUT received: April 22, 2016

Test Date(s): April 23 to May 06, 2016

Equipment Category : DTS

Antenna Gain:

GSM850: -2.22dBi

PCS1900: -1.14dBi

UMTS-FDD Band V: -2.22dBi
UMTS-FDD Band II: -1.14dBi

OWITS-I DD Daild II. - 1. 140DI

Bluetooth/BLE: 2.93dBi

WIFI: 2.93dBi GPS:0 dBi

GSM / GPRS: GMSK

EGPRS: GMSK

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): 2412-2462 MHz

WIFI:802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

GPS RX:1575.42 MHz



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Max. Output Power: -2.674dBm

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band II: 277CH

Number of Channels: WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: Power Port, Earphone Port, USB Port

Adapter:

Model:PC325

Input: AC 100-240V~50/60Hz,0.15A

Output: DC 5.0V,500mA

Input Power: Battery:

Model: BPX325

Spec:3.7V, 4.44Wh

Battery Capacity:1200mAh Limited charger voltage :4.2V

Trade Name: NXXA

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

FCC ID: 2ACLMX325



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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 Comp	
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions Complia	
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions 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/GPS, the gain is 2.93dBi for Bluetooth/BLE and WIFI, the gain is 0dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS and UMTS, the gain is -2.22dBi for GSM850, -1.14dBi for PCS1900,-2.22dBi for UMTS-FDD Band V, -1.14dBi 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	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	April 25, 2016
Tested By :	Winnie Zhang

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

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



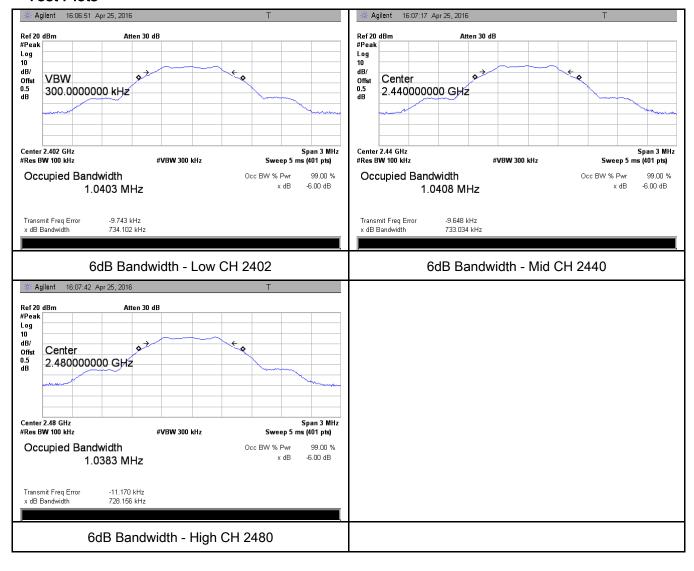
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6dB Bandwidth measurement result

Test Data

СН	Freq (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	734.102	1.0403
Mid	2440	733.034	1.0408
High	2480	728.156	1.0383

Test Plots





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6.3 Maximum Output Power

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	April 25, 2016
Tested By:	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable		
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt			
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt			
§15.247(b) (3),RSS210	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			
(7.0.1)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt			
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	V		
Test Setup	Spectrum Analyzer EUT				
	558074	558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method			
	Maximu	Maximum output power measurement procedure			
	a) Set the RBW ≥ DTS bandwidth.				
T4	b) Set VBW ≥ 3 × RBW.				
Test	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.				
	n) Use p	beak marker function to determine the peak amplitude level.			
Remark					
Result	Pas	s Fail			



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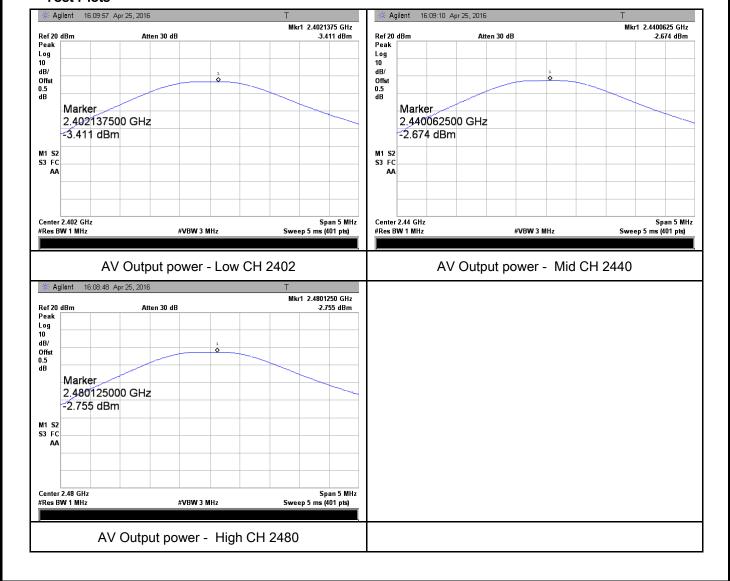
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

Output Power measurement result

Test Data

Туре	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-3.411	30	Pass
Output	Mid	2440	-2.674	30	Pass
power	High	2480	-2.755	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	April 25, 2016
Tested By:	Winnie Zhang

Spec	Item	Requirement	Applicable		
§15.247(e)	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 v03r03, 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 amplitude 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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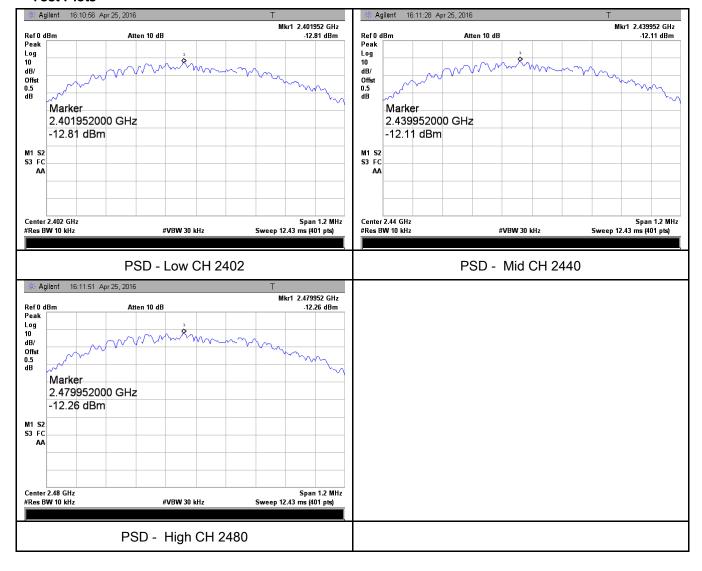
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
	Low	2402	-12.81	-5.23	-18.04	8	Pass
PSD	Mid	2440	-12.11	-5.23	-17.34	8	Pass
	High	2480	-12.26	-5.23	-17.49	8	Pass

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

Test Plots





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

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1005mbar
Test date :	May 05, 2016
Tested By:	Winnie Zhang

Requirement(s):

Spec	Item	tem Requirement Applicable			
§15.247(d)	a)	Ĭ.			
Test Setup	Peak conducted power limits. Ant. Tower Support Units 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.				



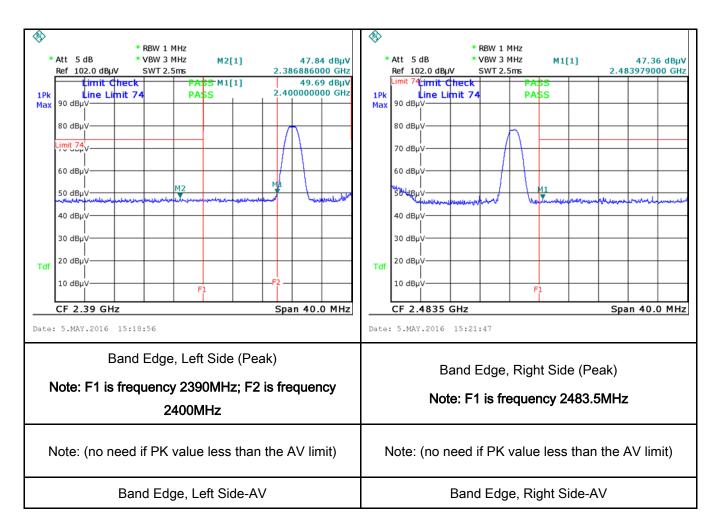
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	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
	convenient frequency span including 100kHz bandwidth from band edge, check
	the emission of EUT, if pass then set Spectrum Analyzer as below:
	a. The resolution bandwidth and 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	22°C
Relative Humidity	57%
Atmospheric Pressure	1005mbar
Test date :	May 05, 2016
Tested By:	Winnie Zhang

Requirement(s):

Spec	Item	Requirement Applicable				
47CFR§15. 207, RSS210 (A8.1)	a)	Frequency ranges (MHz) Comparison of the frequencies ranges Limit (dBµV) Comparison of the fre			Y	
		0.15 ~ 0.5 0.5 ~ 5	66 – 56 56	56 – 46 46		
		5 ~ 30 60 50				
Test Setup	Vertical Ground Reference Plane Bocm Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm					
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

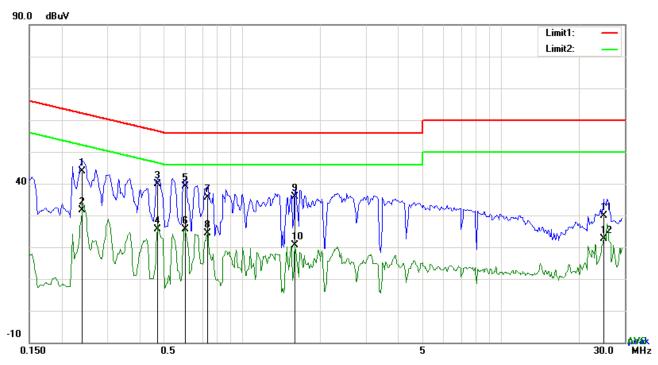
Yes (See below)

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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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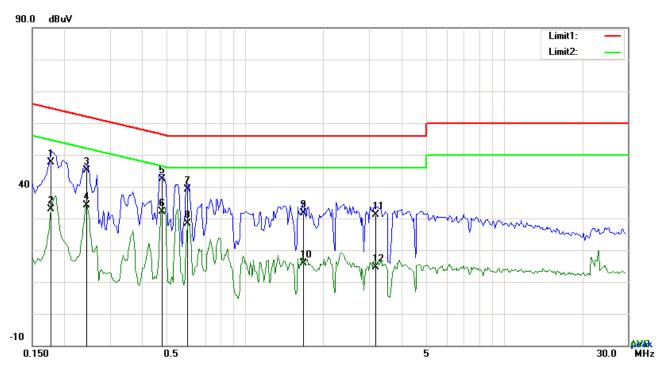
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dΒμV)	Limit (dBµV)	Margin (dB)
1	L1	0.2397	33.87	QP	10.03	43.90	62.11	-18.21
2	L1	0.2397	21.62	AVG	10.03	31.65	52.11	-20.46
3	L1	0.4698	29.79	QP	10.03	39.82	56.52	-16.70
4	L1	0.4698	15.64	AVG	10.03	25.67	46.52	-20.85
5	L1	0.6024	29.00	QP	10.03	39.03	56.00	-16.97
6	L1	0.6024	15.62	AVG	10.03	25.65	46.00	-20.35
7	L1	0.7350	25.49	QP	10.03	35.52	56.00	-20.48
8	L1	0.7350	14.23	AVG	10.03	24.26	46.00	-21.74
9	L1	1.5969	25.87	QP	10.04	35.91	56.00	-20.09
10	L1	1.5969	10.52	AVG	10.04	20.56	46.00	-25.44
11	L1	24.9024	19.61	QP	10.39	30.00	60.00	-30.00
12	L1	24.9024	12.18	AVG	10.39	22.57	50.00	-27.43



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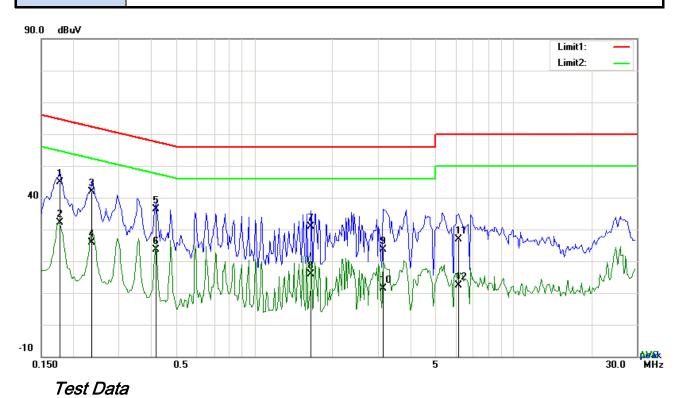
Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dΒμV)	Limit (dBµV)	Margin (dB)
1	N	0.1773	37.50	QP	10.02	47.52	64.61	-17.09
2	N	0.1773	22.74	AVG	10.02	32.76	54.61	-21.85
3	N	0.2436	35.16	QP	10.02	45.18	61.97	-16.79
4	N	0.2436	24.19	AVG	10.02	34.21	51.97	-17.76
5	N	0.4776	32.26	QP	10.02	42.28	56.38	-14.10
6	N	0.4776	22.13	AVG	10.02	32.15	46.38	-14.23
7	N	0.5985	29.07	QP	10.02	39.09	56.00	-16.91
8	N	0.5985	18.34	AVG	10.02	28.36	46.00	-17.64
9	N	1.6749	21.63	QP	10.04	31.67	56.00	-24.33
10	N	1.6749	5.79	AVG	10.04	15.83	46.00	-30.17
11	N	3.1989	21.03	QP	10.05	31.08	56.00	-24.92
12	N	3.1989	4.59	AVG	10.05	14.64	46.00	-31.36



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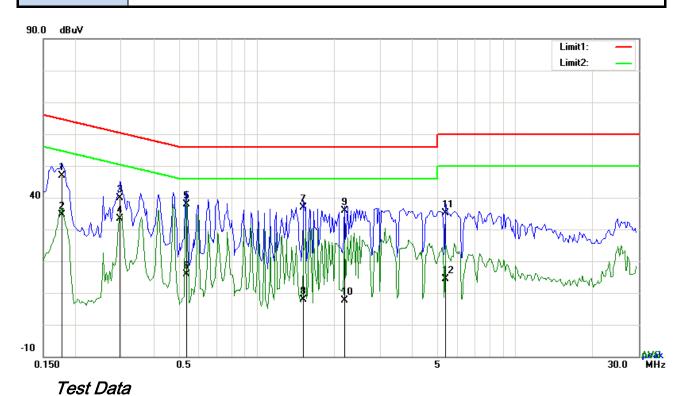


Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1773	34.93	QP	10.03	44.96	64.61	-19.65
2	L1	0.1773	22.02	AVG	10.03	32.05	54.61	-22.56
3	L1	0.2358	31.81	QP	10.03	41.84	62.24	-20.40
4	L1	0.2358	15.75	AVG	10.03	25.78	52.24	-26.46
5	L1	0.4152	26.28	QP	10.03	36.31	57.54	-21.23
6	L1	0.4152	13.70	AVG	10.03	23.73	47.54	-23.81
7	L1	1.6593	20.84	QP	10.04	30.88	56.00	-25.12
8	L1	1.6593	5.88	AVG	10.04	15.92	46.00	-30.08
9	L1	3.1443	13.66	QP	10.06	23.72	56.00	-32.28
10	L1	3.1443	1.20	AVG	10.06	11.26	46.00	-34.74
11	L1	6.1629	16.80	QP	10.10	26.90	60.00	-33.10
12	L1	6.1629	2.27	AVG	10.10	12.37	50.00	-37.63



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Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dΒμV)	Limit (dBµV)	Margin (dB)
1	N	0.1773	36.86	QP	10.02	46.88	64.61	-17.73
2	N	0.1773	24.64	AVG	10.02	34.66	54.61	-19.95
3	N	0.2982	29.74	QP	10.02	39.76	60.29	-20.53
4	N	0.2982	23.27	AVG	10.02	33.29	50.29	-17.00
5	N	0.5361	27.89	QP	10.02	37.91	56.00	-18.09
6	N	0.5361	5.88	AVG	10.02	15.90	46.00	-30.10
7	N	1.5228	26.80	QP	10.04	36.84	56.00	-19.16
8	N	1.5228	-2.24	AVG	10.04	7.80	46.00	-38.20
9	N	2.2014	25.85	QP	10.04	35.89	56.00	-20.11
10	N	2.2014	-2.37	AVG	10.04	7.67	46.00	-38.33
11	N	5.3712	24.99	QP	10.08	35.07	60.00	-24.93
12	N	5.3712	4.28	AVG	10.08	14.36	50.00	-35.64



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6.7 Radiated Spurious Emissions

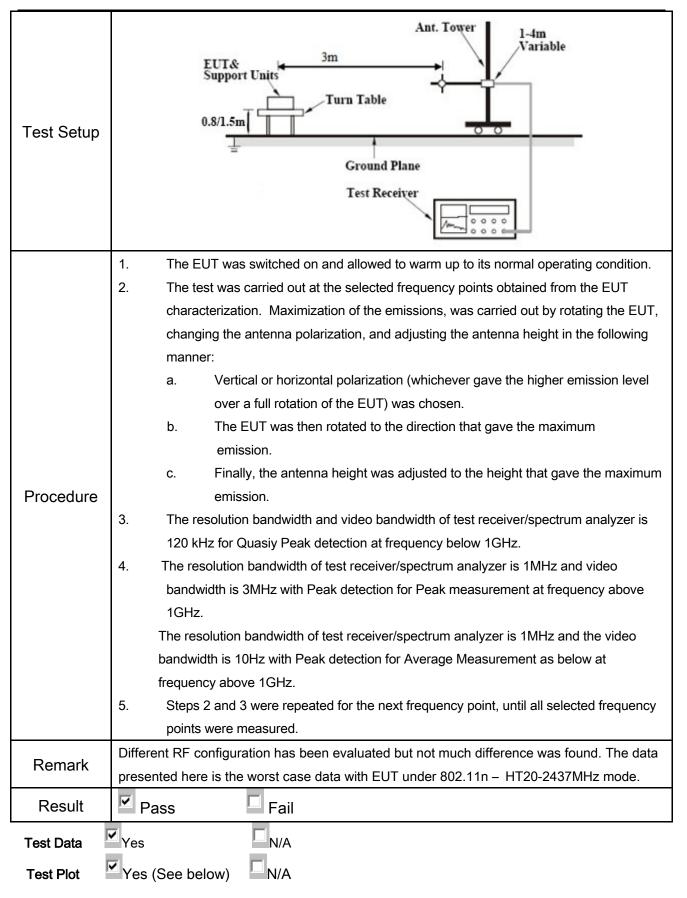
Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	April 25, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement		Applicable
	a)	Except higher limit as specified else emissions from the low-power radionacced the field strength levels sputhelevel of any unwanted emission the fundamental emission. The tiggedges	>	
	(a)	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 o	perating, the radio frequency	
		power that is produced by the inte	ntional radiator shall be at least	
	b)	20 dB or 30dB below that in the 10	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	
	c)	or restricted band, emission must	also comply with the radiated	D.
	C)	emission limits specified in 15.209		•



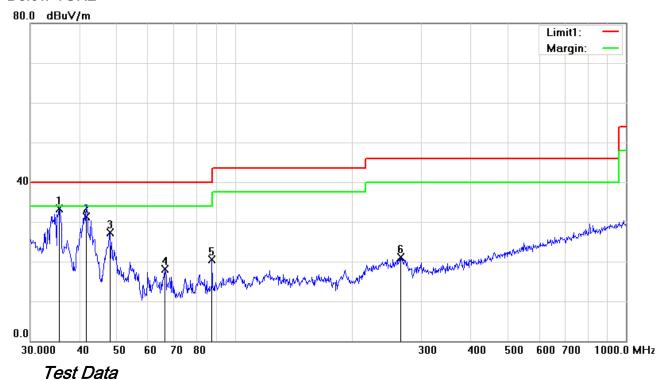
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Below 1GHz



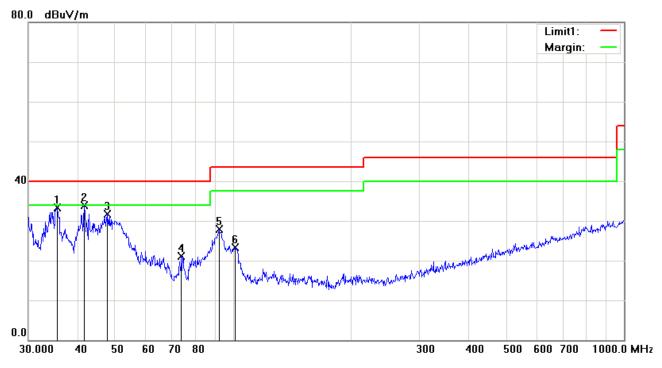
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Detec tor	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	Н	35.6240	37.68	peak	-4.40	33.28	40.00	-6.72	100	295
2	Н	41.7130	40.11	QP	-8.73	31.38	40.00	-8.62	100	348
3	Н	47.9940	39.54	peak	-12.28	27.26	40.00	-12.74	100	224
4	Н	66.2662	32.07	peak	-13.87	18.20	40.00	-21.80	100	138
5	Н	87.4177	33.94	peak	-13.44	20.50	40.00	-19.50	100	89
6	Н	265.6757	29.49	peak	-8.47	21.02	46.00	-24.98	100	108



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Below 1GHz



Test Data

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	V	35.6240	37.79	peak	-4.40	33.39	40.00	-6.61	100	323
2	V	41.7130	42.57	peak	-8.73	33.84	40.00	-6.16	100	199
3	V	47.8260	43.89	peak	-12.20	31.69	40.00	-8.31	100	57
4	V	73.8756	34.85	peak	-13.72	21.13	40.00	-18.87	100	101
5	V	92.1388	40.68	peak	-12.84	27.84	43.50	-15.66	100	203
6	V	101.2885	33.83	peak	-10.56	23.27	43.50	-20.23	100	255



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Above 1GHz

Test Mode:	Transmitting Mode
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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	38.49	AV	٧	33.83	6.86	31.72	47.46	54	-6.54
4804	38.53	AV	Н	33.83	6.86	31.72	47.50	54	-6.50
4804	48.31	PK	٧	33.83	6.86	31.72	57.28	74	-16.72
4804	47.58	PK	Η	33.83	6.86	31.72	56.55	74	-17.45
2109	44.25	AV	٧	29.03	5.51	31.59	47.20	54	-6.80
2109	43.91	AV	Η	29.03	5.51	31.59	46.86	54	-7.14
2109	52.88	PK	٧	29.03	5.51	31.59	55.83	74	-18.17
2109	53.24	PK	Н	29.03	5.51	31.59	56.19	74	-17.81

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	38.55	AV	V	33.86	6.82	31.82	47.41	54	-6.59
4880	38.41	AV	Н	33.86	6.82	31.82	47.27	54	-6.73
4880	48.26	PK	V	33.86	6.82	31.82	57.12	74	-16.88
4880	47.83	PK	Н	33.86	6.82	31.82	56.69	74	-17.31
2115	44.47	AV	V	29.14	5.48	31.53	47.56	54	-6.44
2115	44.12	AV	Н	29.14	5.48	31.53	47.21	54	-6.79
2115	53.28	PK	V	29.14	5.48	31.53	56.37	74	-17.63
2115	53.13	PK	Н	29.14	5.48	31.53	56.22	74	-17.78



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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	38.61	AV	V	33.9	6.76	31.92	47.35	54	-6.65
4960	38.49	AV	Н	33.9	6.76	31.92	47.23	54	-6.77
4960	48.25	PK	V	33.9	6.76	31.92	56.99	74	-17.01
4960	47.82	PK	Н	33.9	6.76	31.92	56.56	74	-17.44
2112	44.31	AV	V	29.21	5.58	31.34	47.76	54	-6.24
2112	43.86	AV	Н	29.21	5.58	31.34	47.31	54	-6.69
2112	53.19	PK	V	29.21	5.58	31.34	56.64	74	-17.36
2112	53.25	PK	Н	29.21	5.58	31.34	56.70	74	-17.30

Note:

- 1, The testing has been conformed to 10*2480MHz=24,800MHz 2, All other emissions more than 30 dB below the limit



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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	<u>\</u>
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	V
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	11/19/2015	11/18/2016	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	Z.
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	N.
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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26 30 24 14 24 33 - 24

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 1

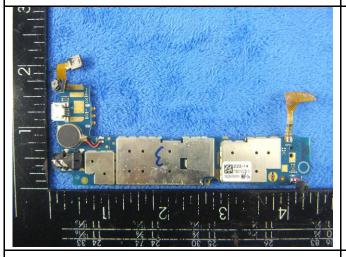
Cover Off - Top View 2



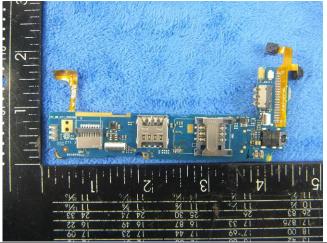




Battery - Rear View



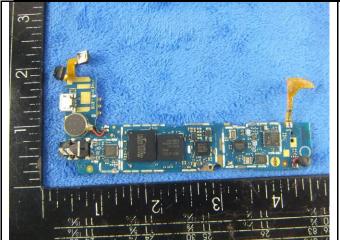
Mainboard with Shielding - Front View



Mainboard with Shielding - Rear View

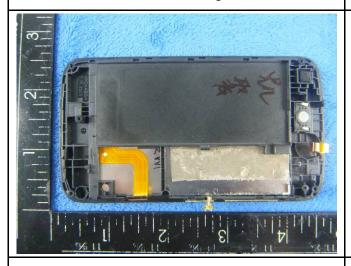


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Mainboard without Shielding - Front View

LCD - Front View





LCD - Rear View

GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE/GPS - Antenna View



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Annex B.iii. Photograph: Test Setup Photo



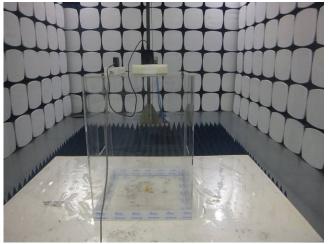
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

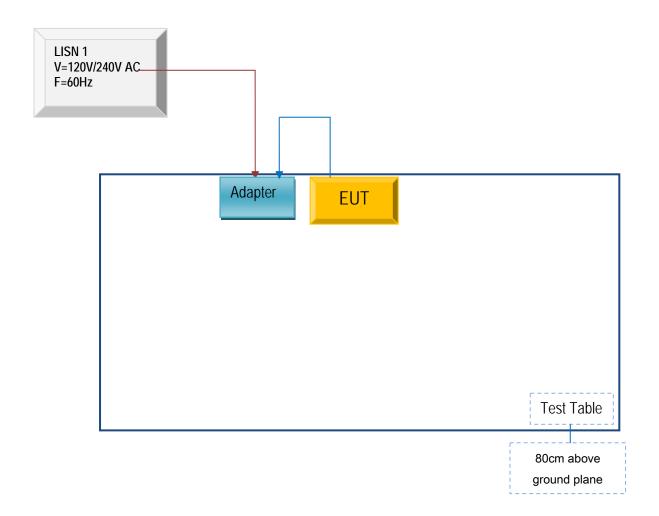


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

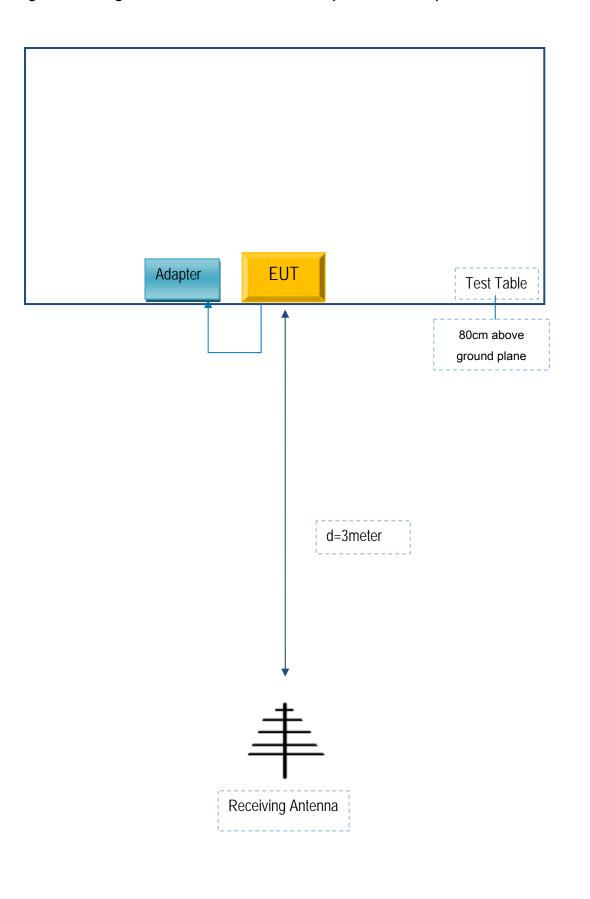
Block Configuration Diagram for AC Line Conducted Emissions





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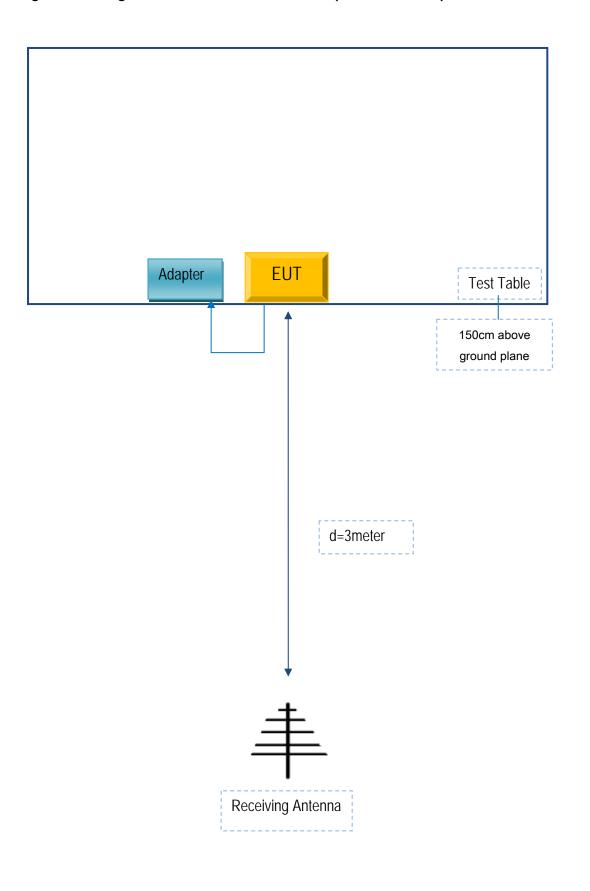
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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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.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Social Mobile Telecommunications	Adapter	PC325	P010253

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	P010253



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

N/A



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Annex E. DECLARATION OF SIMILARITY

N/A