RF TEST REPORT



Report No.: 16071064-FCC-R3
Supersede Report No.: N/A

Applicant	AOC			
Product Name	Tablet PC			
Model No.	A727			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2015, ANSI C63.10: 2	2013	
Test Date	September 01 to 07, 2016			
Issue Date	September 08, 2016			
Test Result	Pass	Fail		
Equipment complied with the specification				
Equipment did no	t comply with	n the specification		
Loven	Luo	David Huang		
Loren Luo 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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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

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



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16071064-FCC-R3	NONE	Original	September 08, 2016

2. Customer information

Applicant Name	AOC	
Applicant Add	14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei	
	City, Taiwan	
Manufacturer	China Great Wall Computer Shenzhen Co., Ltd.	
Manufacturer Add	No.Great Wall Computer Industrial Park,Bao Shi East Road,Bao' an	
	Bistrict,Shenzhen,P.R.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	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information

Description of EUT:	Tablet PC

Main Model: A727

Serial Model: N/A

Date EUT received: September 01, 2016

Test Date(s): September 01 to 07, 2016

Equipment Category : DTS

Antenna Gain: Bluetooth/BLE/WIFI: 0dBi

Antenna Type: PIFA antenna

802.11b/g/n: DSSS, OFDM

Type of Modulation: Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

WIFI: 802.11b/g/n(20M): 2412-2462 MHz RF Operating Frequency (ies):

Bluetooth& BLE: 2402-2480 MHz

Max. Output Power: 6.338dBm

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

Number of Channels: Bluetooth: 79CH

BLE: 40CH

Port: Earphone Port, USB Port, SD Card Port

Trade Name : AOC



Input Power:

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Adapter:

Model: SC/8WI050150US

Input: 100-240V~50/60Hz;0.5A

Output: 5.0V,1500mA

Battery:

Spec: 3.7V,2500mAh(9.25Wh)

FCC ID: 2AEB5-A727



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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 Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions Com	
§15.205, §15.209, Radiated Spurious Emissions & Unwanted Emissions		0
§15.247(d)	into Restricted Frequency Bands	Compliance

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 1 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 0dBi .

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	September 06, 2016
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	Pas	ss Fail		

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



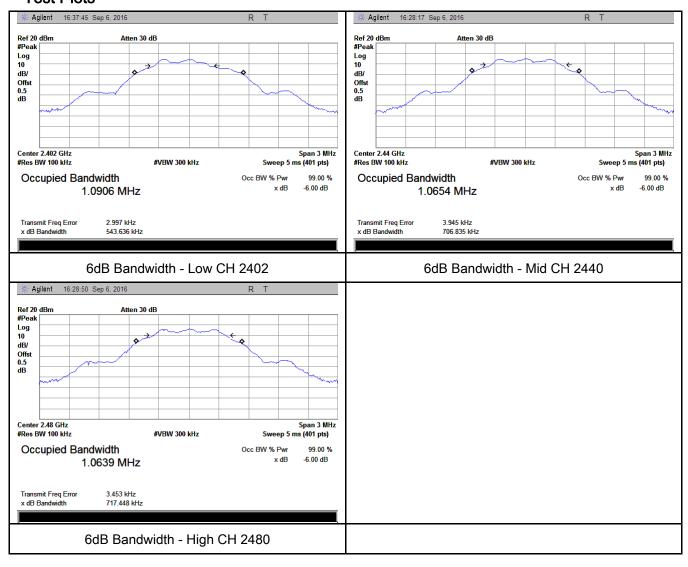
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6dB Bandwidth measurement result

Test Data

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	684.9	1.0906
Mid	2440	683.0	1.0654
High	2480	683.4	1.0639

Test Plots





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6.3 Maximum Output Power

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	September 06, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	tem 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			
(1.6.1)	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 metr	nod		
	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. h) Use peak marker function to determine the peak amplitude level.				
Davasada	11) 030 p	reak marker fariotion to determine the peak amplitude level.			
Remark					
Result	Pas	s Fail			



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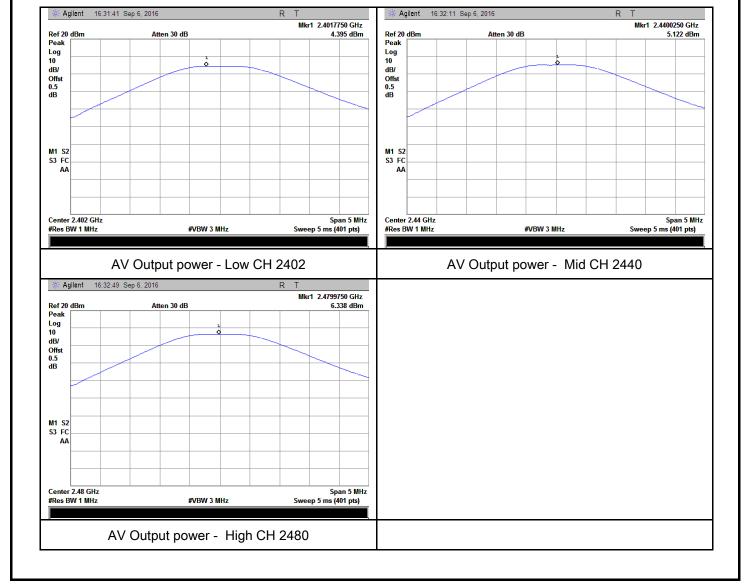
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

Output Power measurement result

Test Data

Туре	CH Frequency Conducted (MHz) Power (dBm)		Limit (dBm)	Result	
Output	Low	2402	4.395	30	Pass
Output	Mid	2440	5.122	30	Pass
power	High	2480	6.338	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	September 06, 2016
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		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 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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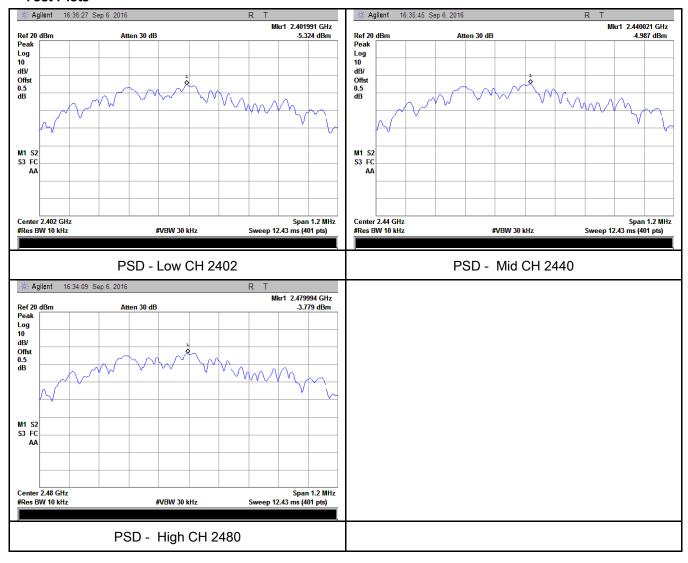
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
	Low	2402	-5.324	-5.23	-10.554	8	Pass
PSD	Mid	2440	-4.987	-5.23	-10.217	8	Pass
	High	2480	-3.779	-5.23	-9.009	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	58%		
Atmospheric Pressure	1006mbar		
Test date :	September 06, 2016		
Tested By :	Loren Luo		

Requirement(s):

Spec	Item	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	es (See below)				

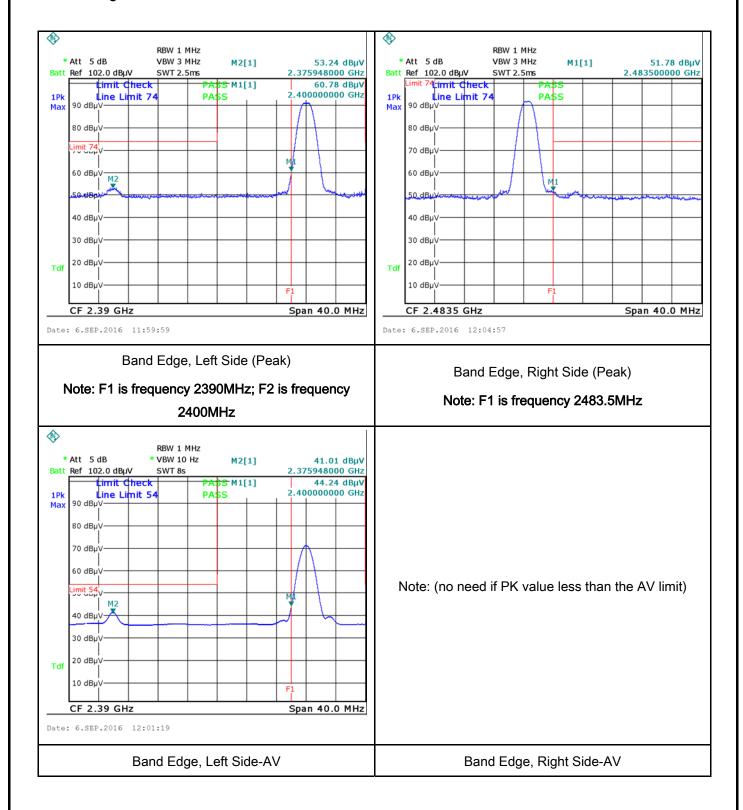


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Radiated method:

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 :	September 05, 2016		
Tested By:	Loren Luo		

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

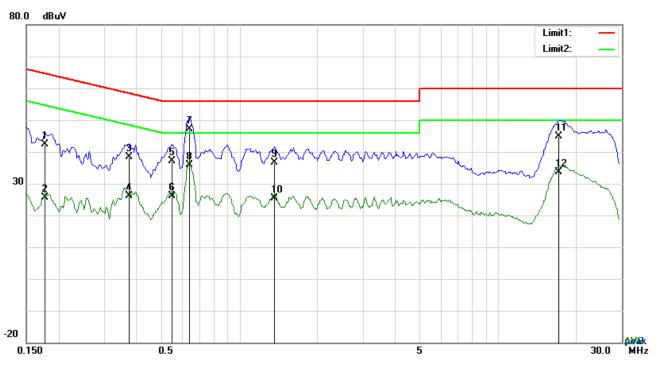
Yes (See below)

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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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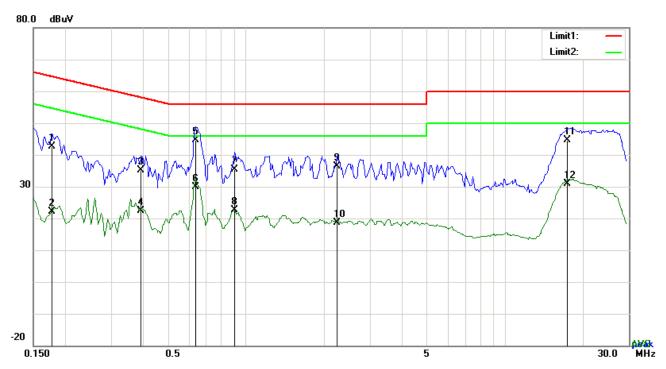
Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.1773	32.26	QP	10.03	42.29	64.61	-22.32
2	L1	0.1773	15.70	AVG	10.03	25.73	54.61	-28.88
3	L1	0.3762	28.24	QP	10.03	38.27	58.36	-20.09
4	L1	0.3762	16.09	AVG	10.03	26.12	48.36	-22.24
5	L1	0.5478	27.17	QP	10.03	37.20	56.00	-18.80
6	L1	0.5478	16.08	AVG	10.03	26.11	46.00	-19.89
7	L1	0.6414	37.04	QP	10.03	47.07	56.00	-8.93
8	L1	0.6414	25.82	AVG	10.03	35.85	46.00	-10.15
9	L1	1.3707	26.54	QP	10.03	36.57	56.00	-19.43
10	L1	1.3707	15.38	AVG	10.03	25.41	46.00	-20.59
11	L1	17.1648	34.64	QP	10.26	44.90	60.00	-15.10
12	L1	17.1648	23.34	AVG	10.26	33.60	50.00	-16.40



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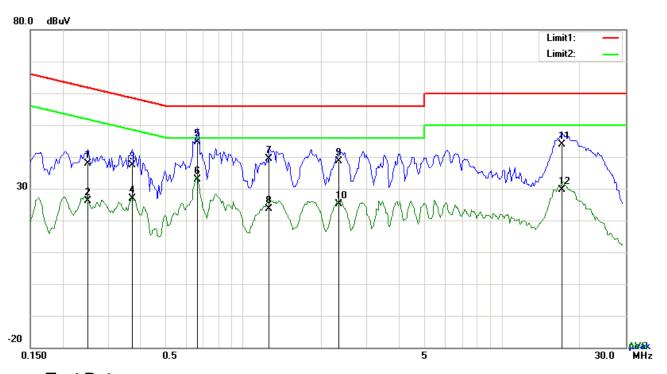
Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	N	0.1773	32.69	QP	10.02	42.71	64.61	-21.90
2	Ν	0.1773	12.17	AVG	10.02	22.19	54.61	-32.42
3	N	0.3918	25.17	QP	10.02	35.19	58.03	-22.84
4	Ν	0.3918	12.42	AVG	10.02	22.44	48.03	-25.59
5	N	0.6375	34.52	QP	10.02	44.54	56.00	-11.46
6	N	0.6375	19.85	AVG	10.02	29.87	46.00	-16.13
7	Ν	0.9027	25.36	QP	10.03	35.39	56.00	-20.61
8	N	0.9027	12.58	AVG	10.03	22.61	46.00	-23.39
9	N	2.2482	26.28	QP	10.04	36.32	56.00	-19.68
10	N	2.2482	8.51	AVG	10.04	18.55	46.00	-27.45
11	N	17.3403	34.29	QP	10.23	44.52	60.00	-15.48
12	N	17.3403	20.57	AVG	10.23	30.80	50.00	-19.20



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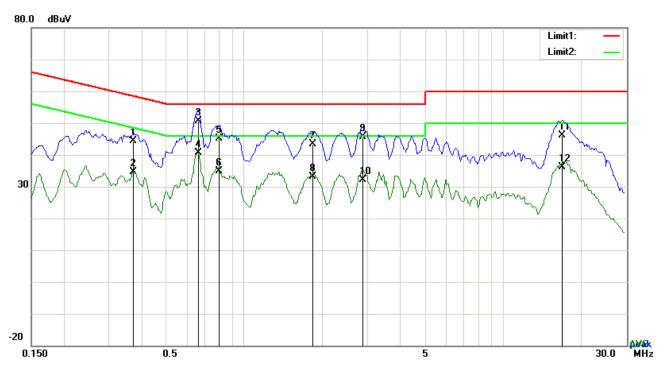
Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)
1	L1	0.2514	27.83	QP	10.03	37.86	61.71	-23.85
2	L1	0.2514	16.08	AVG	10.03	26.11	51.71	-25.60
3	L1	0.3723	27.46	QP	10.03	37.49	58.45	-20.96
4	L1	0.3723	16.82	AVG	10.03	26.85	48.45	-21.60
5	L1	0.6648	34.48	QP	10.03	44.51	56.00	-11.49
6	L1	0.6648	22.85	AVG	10.03	32.88	46.00	-13.12
7	L1	1.2615	29.39	QP	10.03	39.42	56.00	-16.58
8	L1	1.2615	13.49	AVG	10.03	23.52	46.00	-22.48
9	L1	2.3418	28.61	QP	10.05	38.66	56.00	-17.34
10	L1	2.3418	15.11	AVG	10.05	25.16	46.00	-20.84
11	L1	17.0556	33.65	QP	10.26	43.91	60.00	-16.09
12	L1	17.0556	19.25	AVG	10.26	29.51	50.00	-20.49



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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	0.3723	34.30	QP	10.02	44.32	58.45	-14.13
2	N	0.3723	24.54	AVG	10.02	34.56	48.45	-13.89
3	Ν	0.6648	40.73	QP	10.02	50.75	56.00	-5.25
4	Ν	0.6648	30.53	AVG	10.02	40.55	46.00	-5.45
5	N	0.7974	35.22	QP	10.03	45.25	56.00	-10.75
6	N	0.7974	24.87	AVG	10.03	34.90	46.00	-11.10
7	N	1.8465	33.37	QP	10.04	43.41	56.00	-12.59
8	N	1.8465	23.12	AVG	10.04	33.16	46.00	-12.84
9	N	2.8761	35.59	QP	10.05	45.64	56.00	-10.36
10	N	2.8761	22.17	AVG	10.05	32.22	46.00	-13.78
11	N	16.9113	35.87	QP	10.22	46.09	60.00	-13.91
12	N	16.9113	25.94	AVG	10.22	36.16	50.00	-13.84



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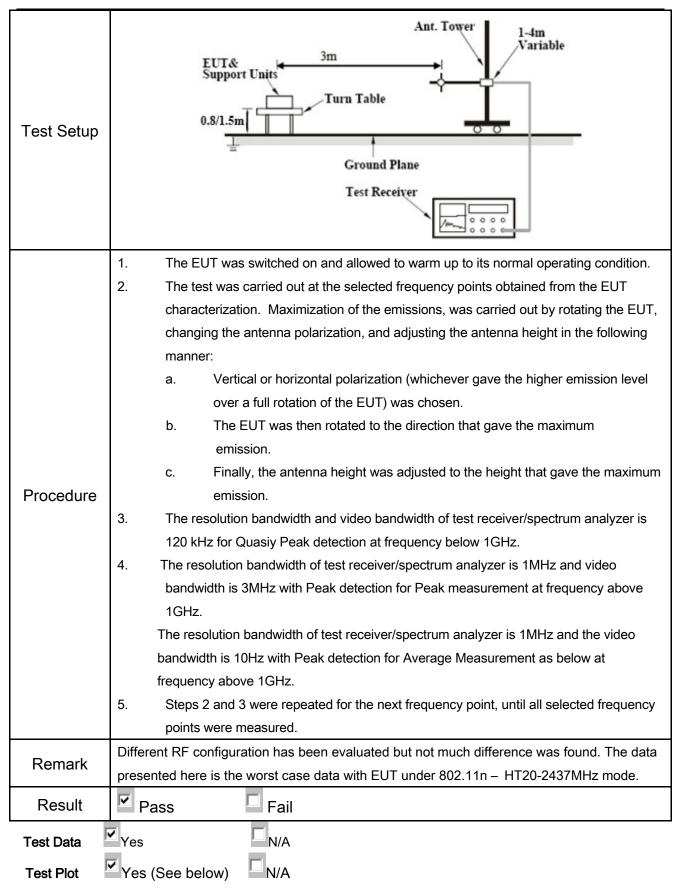
6.7 Radiated Spurious Emissions & Restricted Band

Temperature	23°C
Relative Humidity	58%
Atmospheric Pressure	1006mbar
Test date :	September 06, 2016
Tested By :	Loren Luo

Requirement(s):



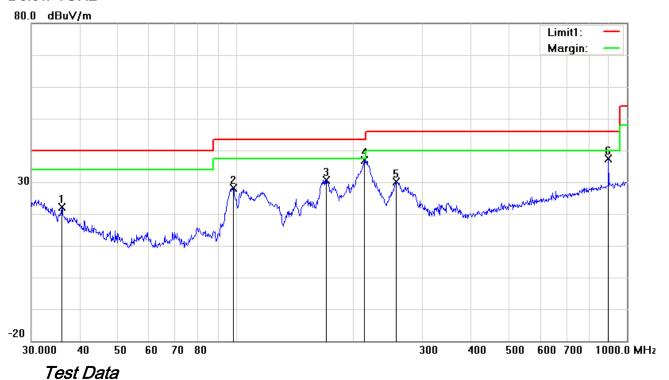
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Below 1GHz



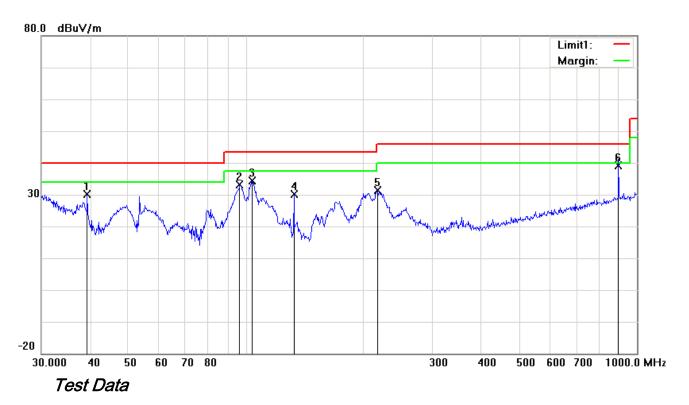
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBµV)	Detec tor	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Height	Degree
1	Н	35.8747	26.64	peak	-4.58	22.06	40.00	-17.94	100	62
2	Н	98.4866	39.43	peak	-11.20	28.23	43.50	-15.27	100	124
3	Н	170.1948	39.73	peak	-9.12	30.61	43.50	-12.89	100	360
4	Н	213.0151	45.71	peak	-8.86	36.85	43.50	-6.65	100	178
5	Н	257.4222	39.01	peak	-8.85	30.16	46.00	-15.84	100	190
6	Н	896.9965	32.82	peak	4.64	37.46	46.00	-8.54	100	21



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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	V	39.2991	37.15	peak	-7.08	30.07	40.00	-9.93	100	48
2	V	96.4362	44.92	peak	-11.75	33.17	43.50	-10.33	100	79
3	V								100	
		103.8055	44.39	peak	-10.12	34.27	43.50	-9.23		51
4	V	132.6850	38.18	peak	-8.09	30.09	43.50	-13.41	100	100
5	V	217.5443	40.20	peak	-8.90	31.30	46.00	-14.70	100	346
6	V	896.9965	34.61	QP	4.64	39.25	46.00	-6.75	100	127



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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	38.85	AV	V	33.83	6.86	31.72	47.82	54	-6.18
4804	38.41	AV	Н	33.83	6.86	31.72	47.38	54	-6.62
4804	48.29	PK	V	33.83	6.86	31.72	57.26	74	-16.74
4804	47.83	PK	Н	33.83	6.86	31.72	56.8	74	-17.2
17754	24.78	AV	V	45.03	11.21	32.38	48.64	54	-5.36
17754	24.31	AV	Н	45.03	11.21	32.38	48.17	54	-5.83
17754	41.26	PK	V	45.03	11.21	32.38	65.12	74	-8.88
17754	40.85	PK	Н	45.03	11.21	32.38	64.71	74	-9.29

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	38.93	AV	V	33.86	6.82	31.82	47.79	54	-6.21
4880	38.55	AV	Н	33.86	6.82	31.82	47.41	54	-6.59
4880	48.36	PK	V	33.86	6.82	31.82	57.22	74	-16.78
4880	47.92	PK	Н	33.86	6.82	31.82	56.78	74	-17.22
17814	24.09	AV	V	45.15	11.18	32.41	48.01	54	-5.99
17814	23.87	AV	Н	45.15	11.18	32.41	47.79	54	-6.21
17814	41.54	PK	V	45.15	11.18	32.41	65.46	74	-8.54
17814	40.96	PK	Н	45.15	11.18	32.41	64.88	74	-9.12



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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	38.67	AV	V	33.9	6.76	31.92	47.41	54	-6.59
4960	38.52	AV	Н	33.9	6.76	31.92	47.26	54	-6.74
4960	48.33	PK	V	33.9	6.76	31.92	57.07	74	-16.93
4960	47.98	PK	Н	33.9	6.76	31.92	56.72	74	-17.28
17835	24.51	AV	V	45.22	11.35	32.38	48.7	54	-5.3
17835	24.18	AV	Н	45.22	11.35	32.38	48.37	54	-5.63
17835	41.22	PK	V	45.22	11.35	32.38	65.41	74	-8.59
17835	40.86	PK	Н	45.22	11.35	32.38	65.05	74	-8.95

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

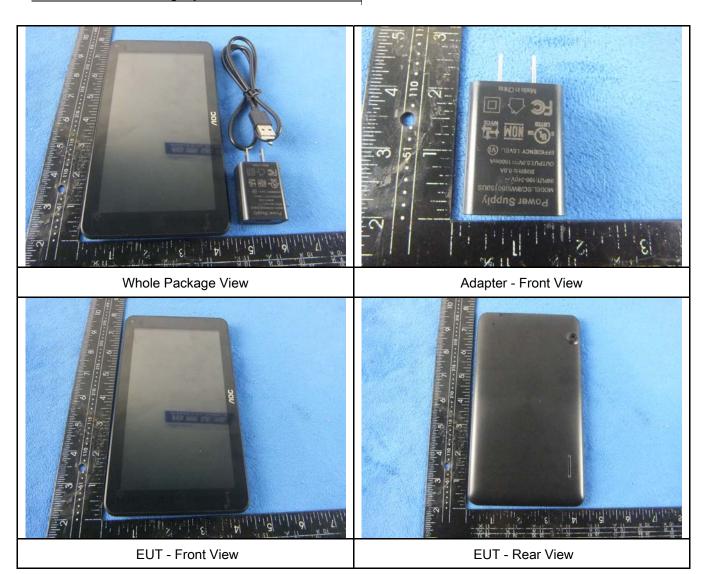
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<u><</u>
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	<u><</u>
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	~
LISN	ISN T800	34373	09/25/2015	09/24/2016	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	\
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	~
Power Splitter	1#	1#	08/31/2016	08/30/2017	<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	08/31/2016	08/30/2017	•
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	<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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EUT - Top View

EUT - Bottom View



EUT - Left View



EUT - Right View



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Annex B.ii. Photograph: EUT Internal Photo



-REC 2500mAh 9 25Mh 3.70
-REC 2500mAh 9 25Mh 3.70
+297099 201608010132

Cover Off - Top View 1

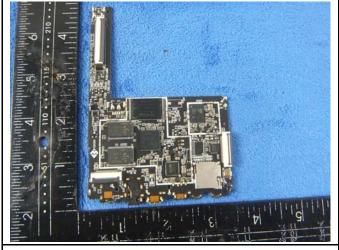




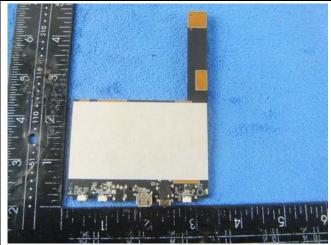




Mainboard with Shielding - Front View



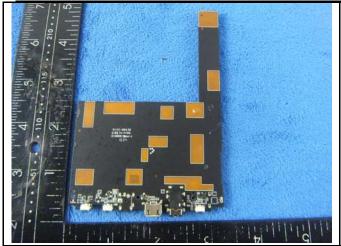
Mainboard without Shielding - Front View



Mainboard with Shielding - Rear View



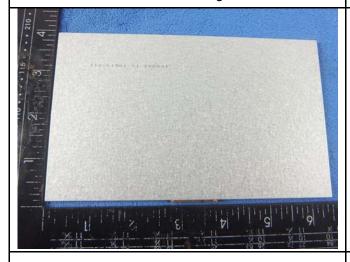
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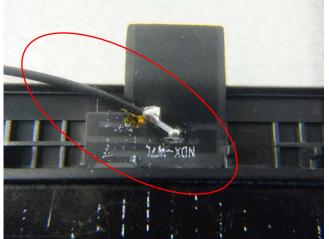


Mainboard without Shielding - Front View

LCD - Front View







BT/WIFI/BLE Antenna View



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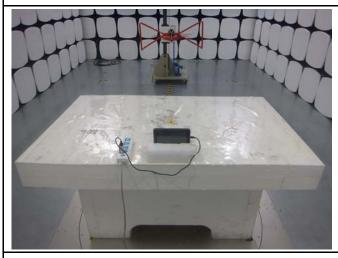
Annex B.iii. Photograph: Test Setup Photo



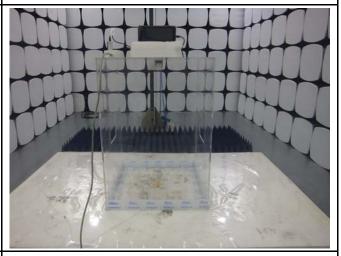
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

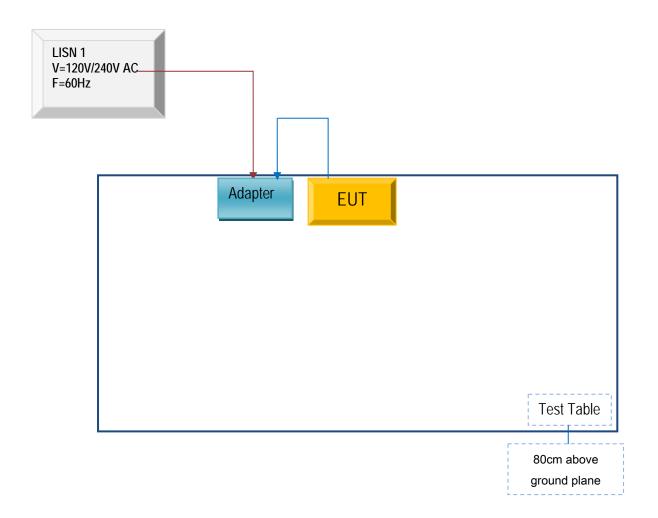


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

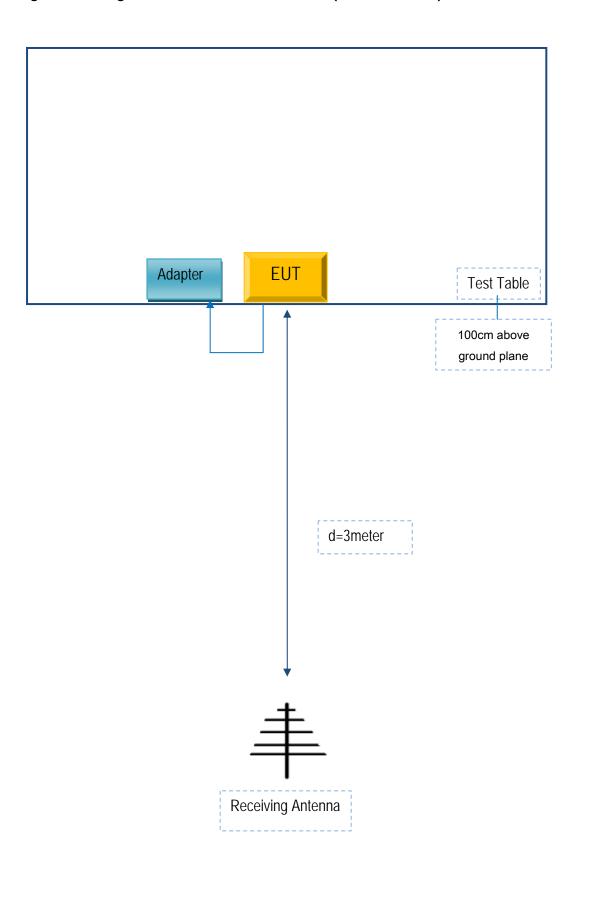
Block Configuration Diagram for AC Line Conducted Emissions





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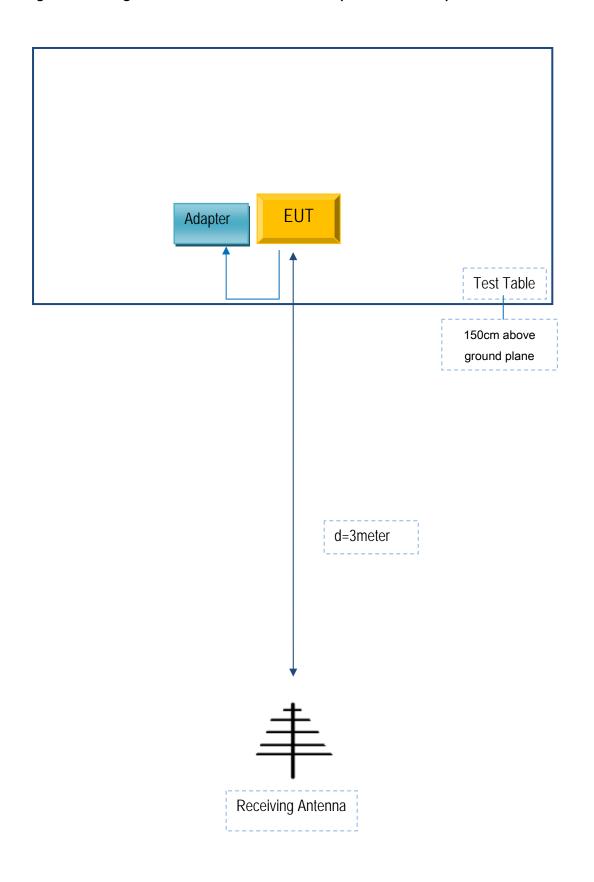
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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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
AOC	Adapter	SC/8WI050150US	A7S

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	A7S



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

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

N/A