RF TEST REPORT



Report No.: 17070251-FCC-R2 V1

Supersede Report No.: N/A

Applicant	AOC			
Product Name	Tablet PC			
Model No.	A726			
Serial No.	N/A			
Test Standard	FCC Part 15.24	1 7: 2016,	ANSI C63.10: 2	013
Test Date	April 02 to 12, 2	2017		
Issue Date	April 18, 2017			
Test Result	Pass F	ail		
Equipment compl	ed with the spec	cification	V	
Equipment did no	t comply with the	e specific	ation 🔲	
Loven	Luo	David	Huang	
Loren Lu Test Engir			l Huang cked By	

This test report may be reproduced in full only

Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



Test Report No.	17070251-FCC-R2 V1
Page	2 of 32

Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



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



Test Report No.	17070251-FCC-R2 V1
Page	3 of 32

This page has	been	left blank	intentionally.
---------------	------	------------	----------------



Test Report No.	17070251-FCC-R2 V1
Page	4 of 32

CONTENTS

1	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5.	TEST SUMMARY	8
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
6.1	RADIATED EMISSIONS & RESTRICTED BAND	9
ANN	NEX A. TEST INSTRUMENT	19
ANN	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	20
ANN	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	28
ANN	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	31
ANN	IEX E. DECLARATION OF SIMILARITY	32



Test Report No.	17070251-FCC-R2 V1
Page	5 of 32

1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070251-FCC-R2	NONE	Original	April 13, 2017
17070251-FCC-R2 V1	V1	Change the EUT internal photos	April 18, 2017

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



Test Report No.	17070251-FCC-R2 V1
Page	6 of 32

4. Equipment under Test (EUT) Information

Description	of EUT:	Tablet F	ъС

Main Model: A726

Serial Model: N/A

Date EUT received: April 01, 2017

Test Date(s): April 02 to 12, 2017

Equipment Category: DTS

Antenna Gain: Bluetooth/WIFI: 2dBi

Antenna Type: PIFA antenna

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

WIFI: 802.11b/g/n(20M): 2412-2462 MHz

RF Operating Frequency (ies): WIFI: 802.11n(40M): 2422-2452 MHz

Bluetooth: 2402-2480 MHz

802.11b: 11.50dBm

802.11g: 11.72dBm

Max. Output Power: 802.11n(20M): 11.97dBm

802.11n(40M): 11.58dBm

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

Number of Channels: WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

Port: Earphone Port, USB Port, SD Card Port



Input Power:

Test Report No.	17070251-FCC-R2 V1
Page	7 of 32

Adapter:

Model: SC/5WM500100-US

Input: AC 100-240V~50/60Hz;0.4A

Output: DC 5.0V,1000mA

Battery:

Spec: 3.7V,2500mAh(9.25Wh)

Trade Name : AOC

FCC ID: 2AEB5-A726



Test Report No.	17070251-FCC-R2 V1
Page	8 of 32

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
§15.205, §15.209,	Radiated Emissions & Unwanted Emissions	Compliance
§15.247(d)	into Restricted Frequency Bands	Compliance

Measurement Uncertainty

Emissions							
Test Item	Description	Uncertainty					
Radiated Emissions & Unwanted Emissions into Restricted Frequency Bands	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					
-	-	-					



Test Report No.	17070251-FCC-R2 V1
Page	9 of 32

6. Measurements, Examination And Derived Results

6.1 Radiated Emissions & Restricted Band

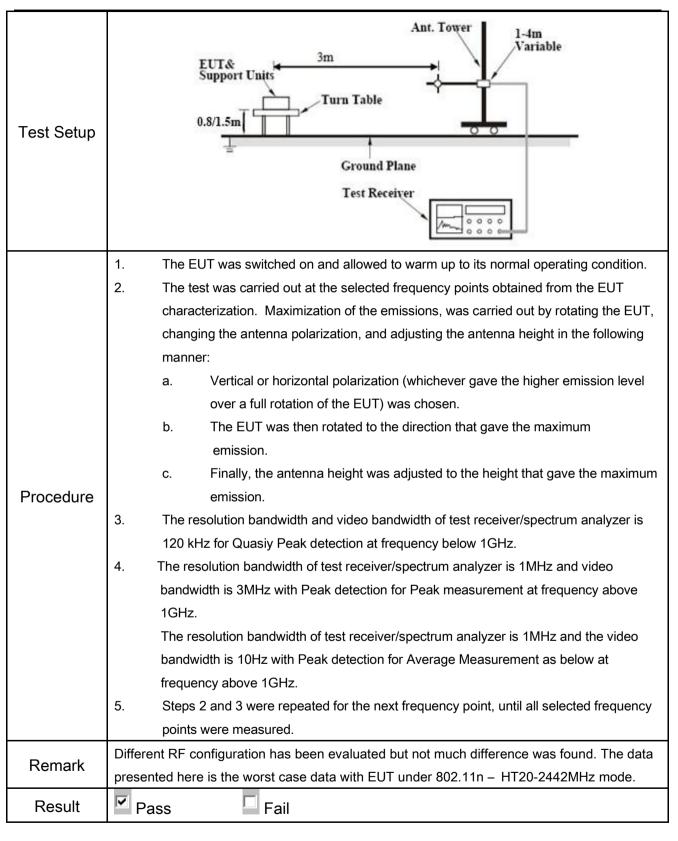
Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	April 12, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable	
	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels specified the level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz) 30 – 88	Y	
47CFR§15.		88 - 216 216 960 Above 960	150 200 500	
247(d), RSS210 (A8.5)	b)	For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the inter 20 dB or 30dB below that in the 10 band that contains the highest lever determined by the measurement mused. Attenuation below the general is not required 20 dB down 30	Y	
	c)	or restricted band, emission must a emission limits specified in 15.209	>	



Test Report No.	17070251-FCC-R2 V1
Page	10 of 32



Test Data	Yes	$\square_{N/A}$
Test Plot	Yes (See below)	✓ _{N/A}



Test Report No.	17070251-FCC-R2 V1
Page	11 of 32

400

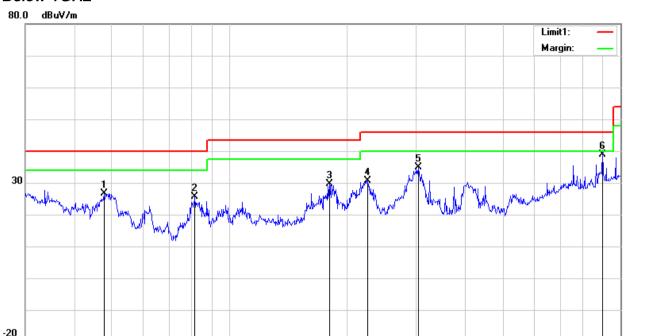
1000.0 MHz

600 700

Screen 1

Test Mode: Bluetooth Mode

Below 1GHz



Test Data

50

70 80

60

30.000

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
		(1411-)	(dD:A//)	or	(dD(m)	(JD)	(JD)	(dD: A//)	(dD-A//)	(-ID)	()	ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	Н	47.6586	38.70	peak	9.43	22.34	0.78	26.57	40.00	-13.43	100	183
2	Н	81.4970	39.29	peak	7.66	22.41	1.06	25.60	40.00	-14.40	100	139
3	Н	180.0165	39.56	peak	11.00	22.25	1.36	29.67	43.50	-13.83	100	269
4	Н	225.3080	39.51	peak	11.75	22.33	1.62	30.55	46.00	-15.45	100	335
5	Н	303.5437	41.60	peak	13.67	22.28	1.81	34.80	46.00	-11.20	100	172
6	Н	900.1474	34.21	QP	22.50	20.88	3.07	38.90	46.00	-7.10	100	292



Test Report No.	17070251-FCC-R2 V1
Page	12 of 32

Below 1GHz





Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
		(MHz)	(dBuV/m)	or	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	>	46.8303	41.59	peak	9.79	22.32	0.77	29.83	40.00	-10.17	100	9
2	>	85.8984	44.70	peak	7.84	22.36	1.05	31.23	40.00	-8.77	100	188
3	>	210.7860	40.20	peak	11.95	22.36	1.57	31.36	43.50	-12.14	100	122
4	>	286.9823	38.47	peak	13.03	22.29	1.77	30.98	46.00	-15.02	100	71
5	V	406.0880	32.66	peak	15.82	22.00	2.02	28.50	46.00	-17.50	100	246
6	٧	900.1474	33.11	peak	22.50	20.88	3.07	37.80	46.00	-8.20	100	349



Test Report No.	17070251-FCC-R2 V1
Page	13 of 32

Screen 2

Test Mode: Bluetooth Mode

Below 1GHz





Test Data

Horizontal Polarity Plot @3m

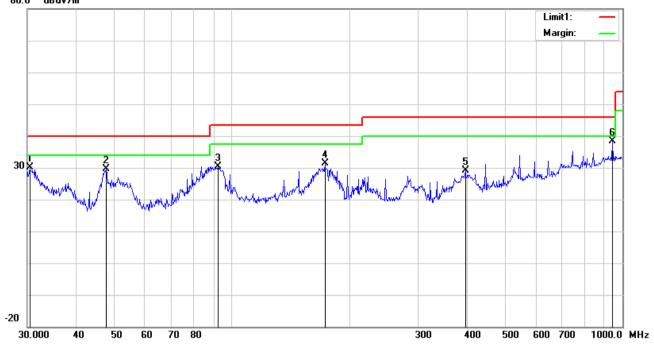
No.		Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
140.	P/L	rrequericy	Reading		AII.	1 7_5	Oab_L	Nosuit	Lillie	Waigiii	rieigiit	_
				or								ее
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	Ι	34.5173	30.49	peak	17.92	22.25	0.75	26.91	40.00	-13.09	100	197
2	Ι	49.5328	36.06	peak	8.61	22.37	0.80	23.10	40.00	-16.90	100	199
3	Н	96.4362	39.71	peak	9.54	22.32	1.03	27.96	43.50	-15.54	100	243
4	Н	197.8928	38.88	peak	11.98	22.37	1.54	30.03	43.50	-13.47	200	66
5	Н	294.1137	36.36	peak	13.34	22.29	1.78	29.19	46.00	-16.81	100	356
6	Н	386.6338	36.45	peak	15.42	22.05	2.02	31.84	46.00	-14.16	100	205



Test Re	eport No.	17070251-FCC-R2 V1
Page		14 of 32

Below 1GHz





Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
	1,/_			or								ее
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	V	30.4238	30.71	peak	21.07	22.28	0.63	30.13	40.00	-9.87	100	172
2	V	47.8260	41.95	peak	9.36	22.34	0.78	29.75	40.00	-10.25	100	319
3	V	92.4624	43.23	peak	8.59	22.32	0.97	30.47	43.50	-13.03	100	318
4	٧	173.2051	40.64	peak	11.54	22.26	1.36	31.28	43.50	-12.22	100	213
5	V	396.2415	33.58	peak	15.62	22.02	2.01	29.19	46.00	-16.81	100	92
6	V	942.1305	33.38	peak	22.71	20.80	3.15	38.44	46.00	-7.56	100	223



Test Report No.	17070251-FCC-R2 V1
Page	15 of 32

Screen 1

Above 1GHz

Test Mode: Transmitting Mode

Low Channel (2412 MHz)(g mode worst case)

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)
4824	38.98	AV	V	33.8	6.86	32.69	46.95	54	-7.05
4824	37.84	AV	Н	33.8	6.86	32.69	45.81	54	-8.19
4824	48.39	PK	V	33.8	6.86	32.69	56.36	74	-17.64
4824	47.56	PK	Н	33.8	6.86	32.69	55.53	74	-18.47
17898	24.25	AV	V	45.12	11.57	32.11	48.83	54	-5.17
17898	22.34	AV	Н	45.12	11.57	32.11	46.92	54	-7.08
17898	40.25	PK	V	45.12	11.57	32.11	64.83	74	-9.17
17898	38.72	PK	Н	45.12	11.57	32.11	63.3	74	-10.7

Middle Channel (2437 MHz) (n20 mode worst case)

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)
4874	39.01	AV	V	33.6	6.82	32.71	46.72	54	-7.28
4874	39.77	AV	Η	33.6	6.82	32.71	47.48	54	-6.52
4874	48.48	PK	V	33.6	6.82	32.71	56.19	74	-17.81
4874	47.53	PK	Н	33.6	6.82	32.71	55.24	74	-18.76
17932	23.44	AV	V	45.17	11.63	32.18	48.06	54	-5.94
17932	22.16	AV	Н	45.17	11.63	32.18	46.78	54	-7.22
17932	40.05	PK	V	45.17	11.63	32.18	64.67	74	-9.33
17932	38.88	PK	Н	45.17	11.63	32.18	63.5	74	-10.5



Test Report No.	17070251-FCC-R2 V1
Page	16 of 32

High Channel (2462 MHz) (n20 mode worst case)

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)
4924	39.53	AV	٧	33.83	6.95	32.79	47.52	54	-6.48
4924	38.81	AV	Н	33.83	6.95	32.79	46.8	54	-7.2
4924	47.78	PK	٧	33.83	6.95	32.79	55.77	74	-18.23
4924	47.97	PK	Н	33.83	6.95	32.79	55.96	74	-18.04
17916	22.5	AV	V	45.19	11.61	32.24	47.06	54	-6.94
17916	23.58	AV	Ι	45.19	11.61	32.24	48.14	54	-5.86
17916	39.68	PK	V	45.19	11.61	32.24	64.24	74	-9.76
17916	39.65	PK	Η	45.19	11.61	32.24	64.21	74	-9.79

Note:

- 1, The testing has been conformed to 10*2472MHz=24,620MHz
- 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.



Test Report No.	17070251-FCC-R2 V1
Page	17 of 32

Screen 2

Above 1GHz

Test Mode: Transmitting Mode

Low Channel (2412 MHz)(g mode worst case)

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)
4824	39.25	AV	V	33.8	6.86	32.69	47.22	54	-6.78
4824	38.02	AV	Н	33.8	6.86	32.69	45.99	54	-8.01
4824	48.13	PK	٧	33.8	6.86	32.69	56.1	74	-17.9
4824	47.08	PK	Н	33.8	6.86	32.69	55.05	74	-18.95
17897	24.34	AV	٧	45.12	11.57	32.11	48.92	54	-5.08
17897	23.21	AV	Н	45.12	11.57	32.11	47.79	54	-6.21
17897	39.9	PK	V	45.12	11.57	32.11	64.48	74	-9.52
17897	39.11	PK	Н	45.12	11.57	32.11	63.69	74	-10.31

Middle Channel (2437 MHz) (n20 mode worst case)

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)
4874	37.88	AV	>	33.6	6.82	32.71	45.59	54	-8.41
4874	38.92	AV	Η	33.6	6.82	32.71	46.63	54	-7.37
4874	48.55	PK	V	33.6	6.82	32.71	56.26	74	-17.74
4874	47.59	PK	Н	33.6	6.82	32.71	55.3	74	-18.7
17926	23.42	AV	V	45.17	11.63	32.18	48.04	54	-5.96
17926	22.68	AV	Н	45.17	11.63	32.18	47.3	54	-6.7
17926	39.43	PK	V	45.17	11.63	32.18	64.05	74	-9.95
17926	39.16	PK	Н	45.17	11.63	32.18	63.78	74	-10.22



Test Report No.	17070251-FCC-R2 V1
Page	18 of 32

High Channel (2462 MHz) (n20 mode worst case)

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)
4924	39.11	AV	V	33.83	6.95	32.79	47.1	54	-6.9
4924	38.92	AV	Н	33.83	6.95	32.79	46.91	54	-7.09
4924	47.4	PK	V	33.83	6.95	32.79	55.39	74	-18.61
4924	47.44	PK	Η	33.83	6.95	32.79	55.43	74	-18.57
17922	22.8	AV	V	45.19	11.61	32.24	47.36	54	-6.64
17922	23.11	AV	Н	45.19	11.61	32.24	47.67	54	-6.33
17922	40.46	PK	V	45.19	11.61	32.24	65.02	74	-8.98
17922	39.73	PK	Н	45.19	11.61	32.24	64.29	74	-9.71

Note:

- 1, The testing has been conformed to 10*2472MHz=24,620MHz
- 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.



Test Report No.	17070251-FCC-R2 V1
Page	19 of 32

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<u> </u>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	×



Test Report No.	17070251-FCC-R2 V1
Page	20 of 32

Annex B. EUT and Test Setup Photographs

Photograph: EUT Internal Photo Annex B.ii.

Screen 1





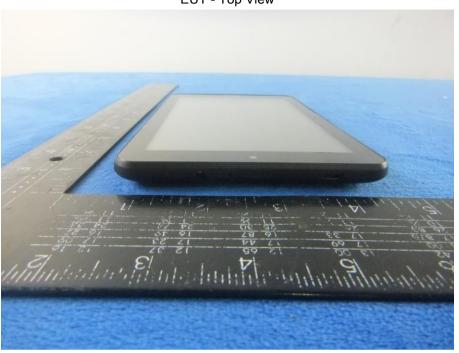
EUT - Rear View



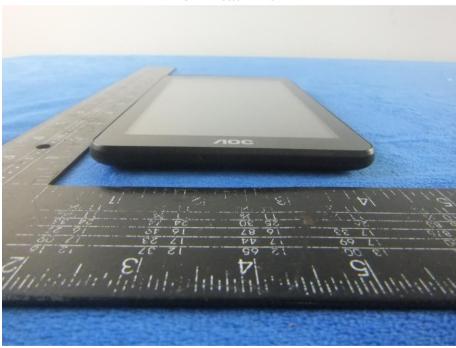


Test Report No.	17070251-FCC-R2 V1
Page	21 of 32

EUT - Top View



EUT - Bottom View





Test Report No.	17070251-FCC-R2 V1
Page	22 of 32

EUT - Left View



EUT - Right View





Test Report No.	17070251-FCC-R2 V1
Page	23 of 32

Screen 2

EUT - Front View



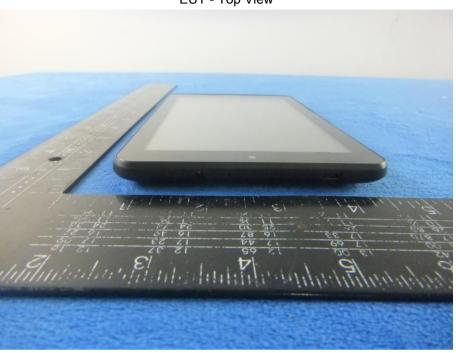
EUT - Rear View





Test Report No.	17070251-FCC-R2 V1
Page	24 of 32

EUT - Top View



EUT - Bottom View





Test Report No.	17070251-FCC-R2 V1
Page	25 of 32

EUT - Left View



EUT - Right View





Test Report No.	17070251-FCC-R2 V1
Page	26 of 32

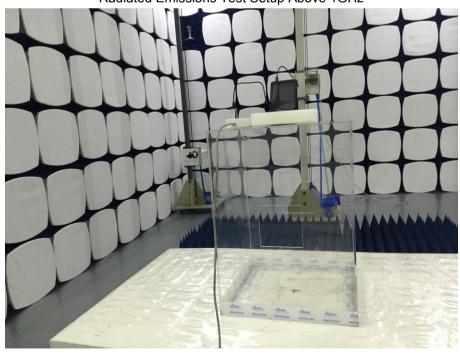
Annex B.iii. Photograph: Test Setup Photo

Screen 1





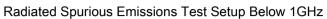
Radiated Emissions Test Setup Above 1GHz

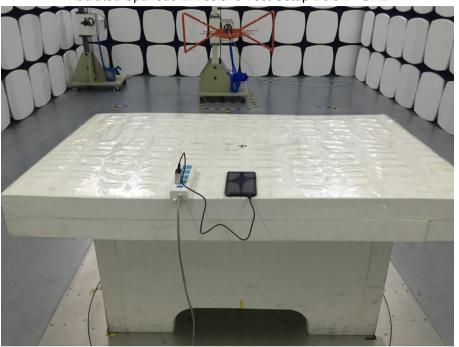




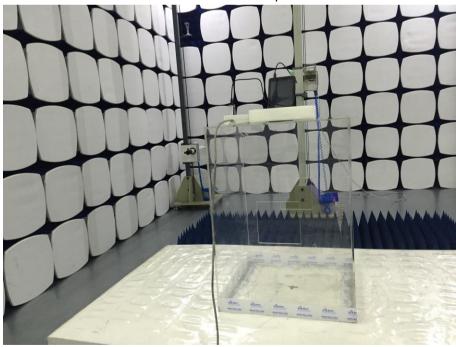
Test Report No.	17070251-FCC-R2 V1
Page	27 of 32

Screen 2





Radiated Emissions Test Setup Above 1GHz





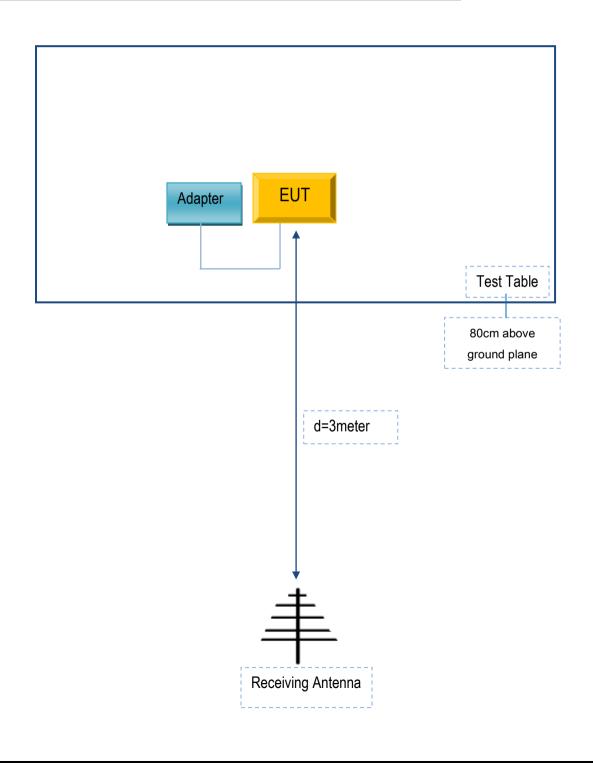
Test Report No.	17070251-FCC-R2 V1
Page	28 of 32

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Screen 1& Screen 2

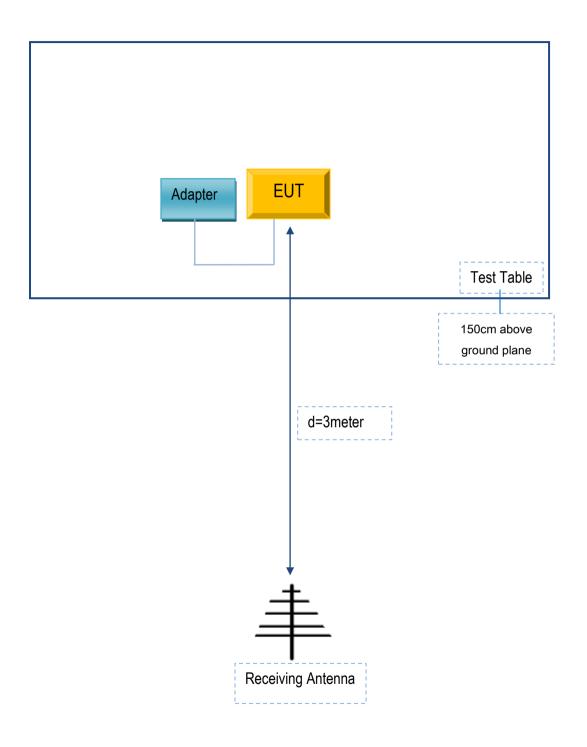
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





Test Report No.	17070251-FCC-R2 V1
Page	29 of 32

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





Test Report No.	17070251-FCC-R2 V1
Page	30 of 32

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/5WM500100-US	A72S

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	A72S



Test Report No.	17070251-FCC-R2 V1
Page	31 of 32

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

Please see attachment



Test Report No.	17070251-FCC-R2 V1	
Page	32 of 32	

Annex E. DECLARATION OF SIMILARITY