
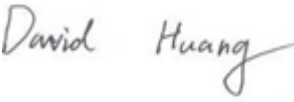



# RF TEST REPORT



Report No.: 17070251-FCC-R1 V1

Supersede Report No.: N/A

Applicant	AOC	
Product Name	Tablet PC	
Model No.	A726	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2016, ANSI C63.10: 2013	
Test Date	April 02 to 12, 2017	
Issue Date	April 18, 2017	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification <input checked="" type="checkbox"/>		
Equipment did not comply with the specification <input type="checkbox"/>		
		
Loren Luo Test Engineer	David Huang Checked 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**

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## 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	17070251-FCC-R1 V1
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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070251-FCC-R1	NONE	Original	April 13, 2017
17070251-FCC-R1 V1	V1	Change the 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
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park 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

## 4. Equipment under Test (EUT) Information

Description of EUT:	Tablet PC
Main Model:	A726
Serial Model:	N/A
Date EUT received:	April 01, 2017
Test Date(s):	April 02 to 12, 2017
Equipment Category :	DSS
Antenna Gain:	Bluetooth/WIFI: 2dBi
Antenna Type:	PIFA antenna
Type of Modulation:	802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi/4$ DQPSK, 8DPSK
RF Operating Frequency (ies):	WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth: 2402-2480 MHz
Max. Output Power:	6.939dBm
Number of Channels:	WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH Bluetooth: 79CH
Port:	Earphone Port, USB Port , SD Card Port

Input Power: 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

## 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, §15.247(d)	Radiated Emissions& Restricted Band	Compliance

### Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Radiated Emissions& Restricted Band	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
-	-	-




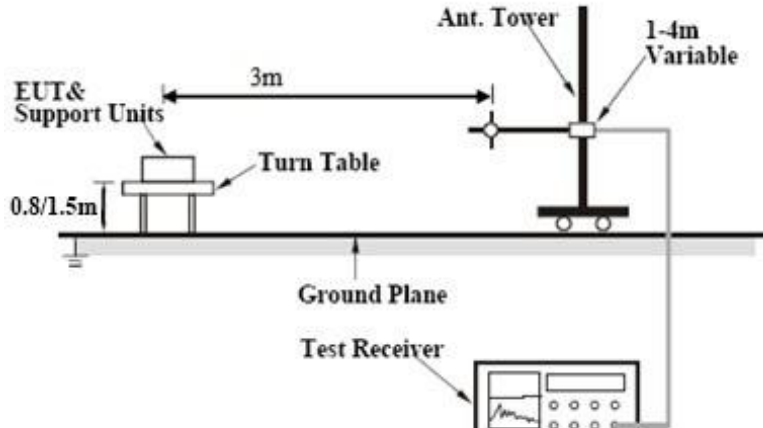
## 6. Measurements, Examination And Derived Results

### 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											
47CFR§15.205, §15.209, §15.247(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges												
		<table><tr><th>Frequency range (MHz)</th><th>Field Strength (µV/m)</th></tr><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></table>		Frequency range (MHz)	Field Strength (µV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	
		Frequency range (MHz)		Field Strength (µV/m)										
		30 – 88		100										
		88 – 216		150										
		216 960		200										
Above 960	500													

Test Setup	
------------	--

Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the</li> </ol>
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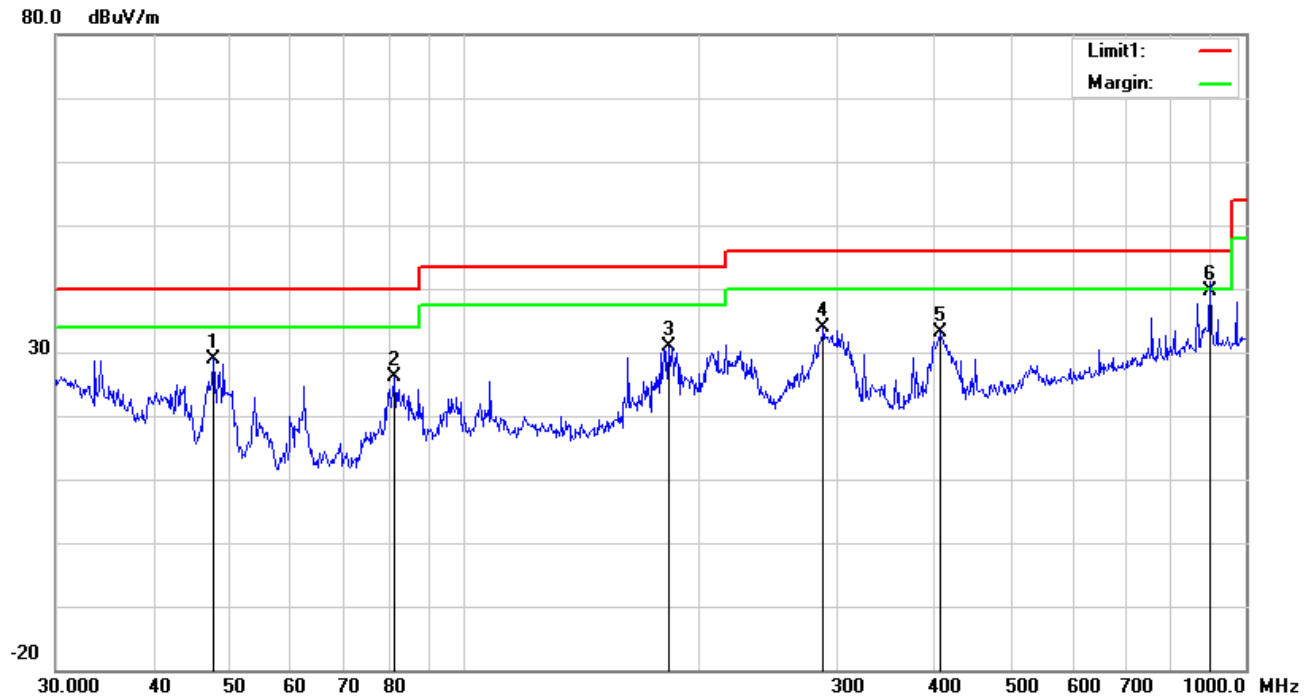
	<p>EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:</p> <ol style="list-style-type: none"> <li>Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> <ol style="list-style-type: none"> <li>The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</li> <li>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. 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.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A  
 Test Plot ☐ Yes (See below) ☒ N/A

## Screen 1

Test Mode:	Bluetooth Mode
------------	----------------

### Below 1GHz

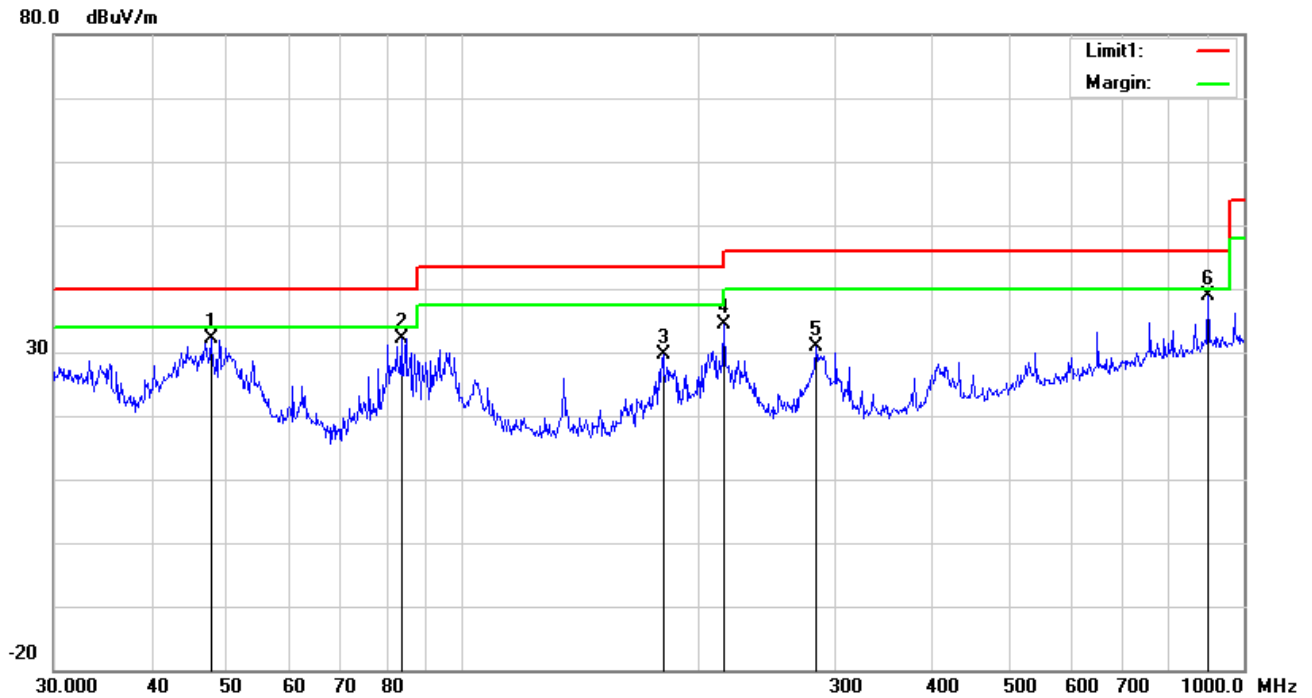


### Test Data

#### Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	H	47.8260	41.20	peak	9.36	22.34	0.78	29.00	40.00	-11.00	100	49
2	H	81.4970	39.79	peak	7.66	22.41	1.06	26.10	40.00	-13.90	100	178
3	H	182.5592	40.51	peak	11.14	22.27	1.41	30.79	43.50	-12.71	100	222
4	H	287.9904	41.43	peak	13.07	22.29	1.77	33.98	46.00	-12.02	200	73
5	H	406.0880	37.23	peak	15.82	22.00	2.02	33.07	46.00	-12.93	100	132
6	H	900.1474	34.91	QP	22.50	20.88	3.07	39.60	46.00	-6.40	100	302

### Below 1GHz



### Test Data

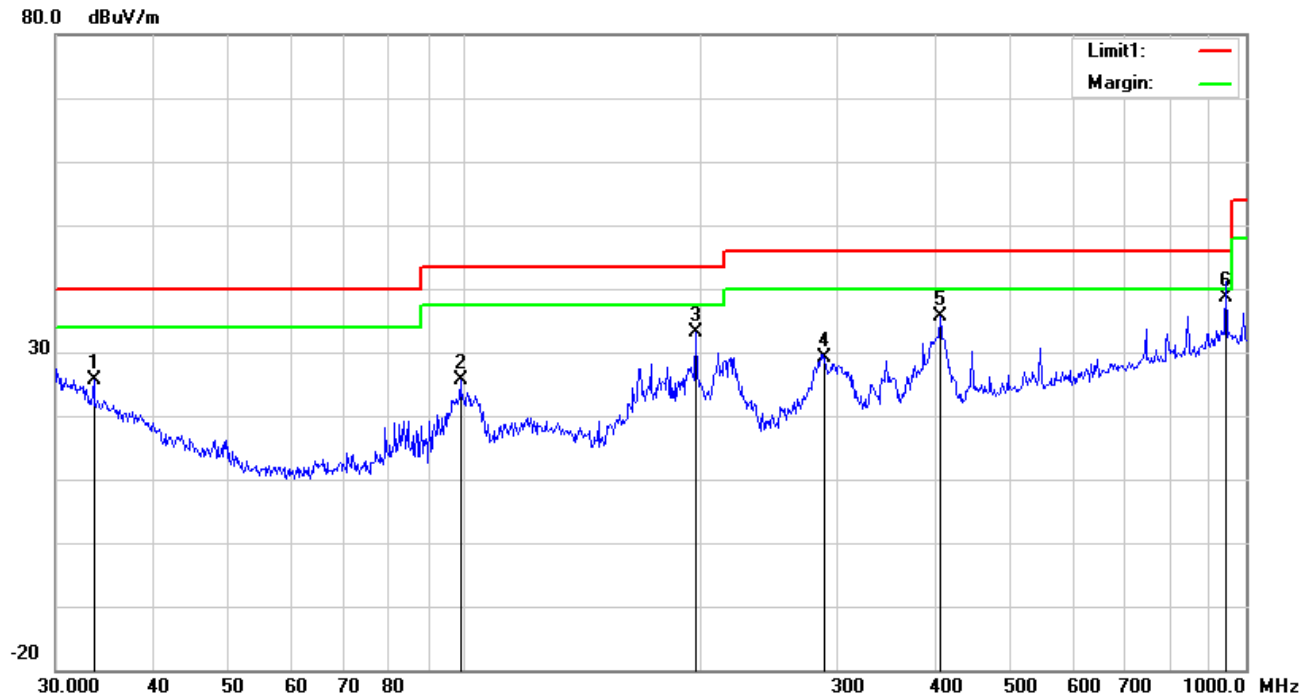
#### Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	( )
1	V	47.6586	44.16	peak	9.43	22.34	0.78	32.03	40.00	-7.97	100	304
2	V	83.5222	45.67	peak	7.74	22.38	1.06	32.09	40.00	-7.91	200	15
3	V	180.6488	39.40	peak	11.04	22.25	1.37	29.56	43.50	-13.94	100	107
4	V	216.0240	43.29	peak	11.88	22.35	1.59	34.41	46.00	-11.59	100	347
5	V	282.9852	38.58	peak	12.85	22.29	1.76	30.90	46.00	-15.10	100	68
6	V	900.1474	34.10	peak	22.50	20.88	3.07	38.79	46.00	-7.21	100	218

## Screen 2

Test Mode:	Bluetooth Mode
------------	----------------

### Below 1GHz



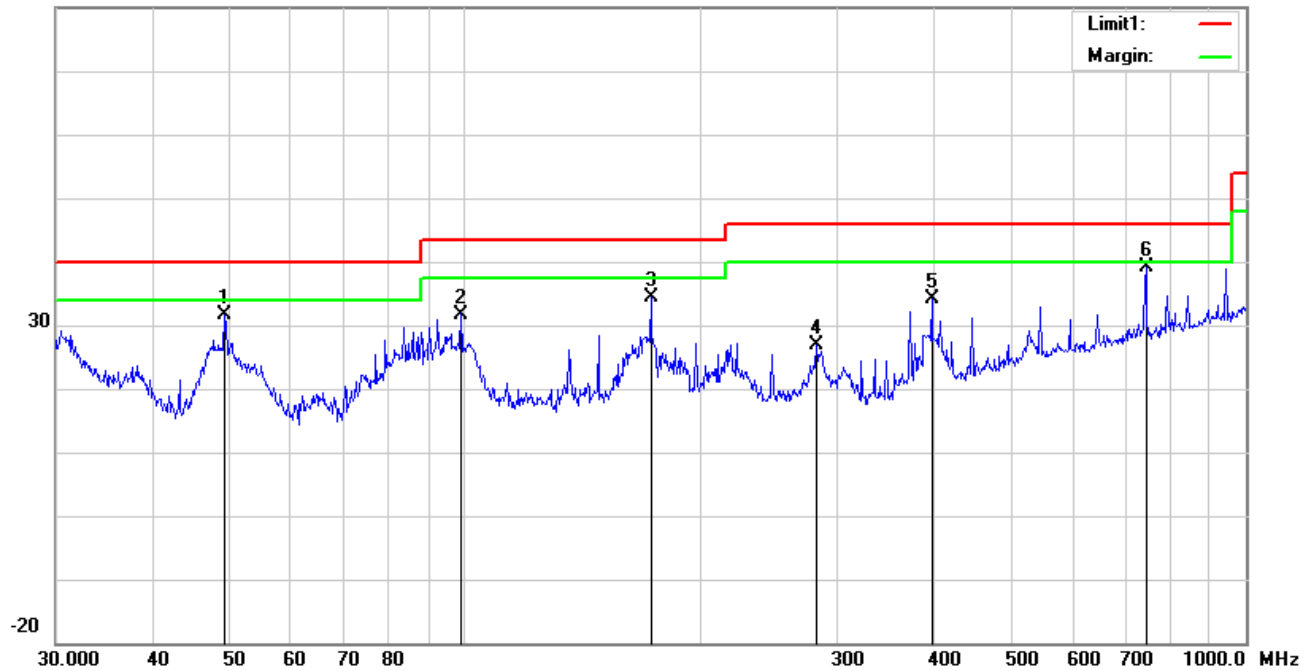
### Test Data

#### Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	H	33.5624	28.61	peak	18.66	22.26	0.72	25.73	40.00	-14.27	100	66
2	H	98.8326	36.63	peak	10.12	22.32	1.09	25.52	43.50	-17.98	100	278
3	H	197.8928	41.88	peak	11.98	22.37	1.54	33.03	43.50	-10.47	100	357
4	H	289.0021	36.57	peak	13.12	22.29	1.77	29.17	46.00	-16.83	100	41
5	H	406.0880	39.81	peak	15.82	22.00	2.02	35.65	46.00	-10.35	100	323
6	H	942.1305	33.64	QP	22.71	20.80	3.15	38.70	46.00	-7.30	100	151

### Below 1GHz

80.0 dBuV/m



### Test Data

#### Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	49.3594	44.44	peak	8.68	22.37	0.79	31.54	40.00	-8.46	100	28
2	V	98.8326	42.86	peak	10.12	22.32	1.09	31.75	43.50	-11.75	100	130
3	V	173.2051	43.64	peak	11.54	22.26	1.36	34.28	43.50	-9.22	100	240
4	V	281.9946	34.57	peak	12.81	22.29	1.76	26.85	46.00	-19.15	100	341
5	V	396.2415	38.58	peak	15.62	22.02	2.01	34.19	46.00	-11.81	100	267
6	V	744.8661	36.85	peak	20.74	21.27	2.84	39.16	46.00	-6.84	100	153

## Screen 1

### Above 1GHz

Test Mode:	Transmitting Mode
------------	-------------------

#### Low Channel (2402 MHz) ( GFSK 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)
4804	39.54	AV	V	33.67	6.86	32.66	47.41	54	-6.59
4804	39.97	AV	H	33.67	6.86	32.66	47.84	54	-6.16
4804	49.03	PK	V	33.67	6.86	32.66	56.9	74	-17.1
4804	45.7	PK	H	33.67	6.86	32.66	53.57	74	-20.43
17810	24.06	AV	V	45.03	11.21	32.38	47.92	54	-6.08
17810	24.59	AV	H	45.03	11.21	32.38	48.45	54	-5.55
17810	40.5	PK	V	45.03	11.21	32.38	64.36	74	-9.64
17810	41.55	PK	H	45.03	11.21	32.38	65.41	74	-8.59

#### Middle Channel (2441 MHz) ( GFSK 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)
4882	39.55	AV	V	33.71	6.95	32.74	47.47	54	-6.53
4882	38.79	AV	H	33.71	6.95	32.74	46.71	54	-7.29
4882	49.28	PK	V	33.71	6.95	32.74	57.2	74	-16.8
4882	47.26	PK	H	33.71	6.95	32.74	55.18	74	-18.82
17816	24.57	AV	V	45.15	11.18	32.41	48.49	54	-5.51
17816	23.39	AV	H	45.15	11.18	32.41	47.31	54	-6.69
17816	41.38	PK	V	45.15	11.18	32.41	65.3	74	-8.7
17816	41.21	PK	H	45.15	11.18	32.41	65.13	74	-8.87

**High Channel (2480 MHz) ( GFSK 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)
4960	36.97	AV	V	33.9	6.76	32.74	44.89	54	-9.11
4960	37.79	AV	H	33.9	6.76	32.74	45.71	54	-8.29
4960	47.95	PK	V	33.9	6.76	32.74	55.87	74	-18.13
4960	47.17	PK	H	33.9	6.76	32.74	55.09	74	-18.91
17825	23.1	AV	V	45.22	11.35	32.38	47.29	54	-6.71
17825	23.93	AV	H	45.22	11.35	32.38	48.12	54	-5.88
17825	42.87	PK	V	45.22	11.35	32.38	67.06	74	-6.94
17825	41.19	PK	H	45.22	11.35	32.38	65.38	74	-8.62

**Note:**

1, The testing has been conformed to  $10 \times 2480 \text{ MHz} = 24,800 \text{ MHz}$

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.



## Screen 2

### Above 1GHz

Test Mode:	Transmitting Mode
------------	-------------------

#### Low Channel (2402 MHz) ( GFSK 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)
4804	39.64	AV	V	33.67	6.86	32.66	47.51	54	-6.49
4804	39.02	AV	H	33.67	6.86	32.66	46.89	54	-7.11
4804	48.43	PK	V	33.67	6.86	32.66	56.3	74	-17.7
4804	45.34	PK	H	33.67	6.86	32.66	53.21	74	-20.79
17808	24.01	AV	V	45.03	11.21	32.38	47.87	54	-6.13
17808	24.62	AV	H	45.03	11.21	32.38	48.48	54	-5.52
17808	40.37	PK	V	45.03	11.21	32.38	64.23	74	-9.77
17808	42.45	PK	H	45.03	11.21	32.38	66.31	74	-7.69

#### Middle Channel (2441 MHz) ( GFSK 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)
4882	39.32	AV	V	33.71	6.95	32.74	47.24	54	-6.76
4882	38.67	AV	H	33.71	6.95	32.74	46.59	54	-7.41
4882	48.46	PK	V	33.71	6.95	32.74	56.38	74	-17.62
4882	47.2	PK	H	33.71	6.95	32.74	55.12	74	-18.88
17811	24.5	AV	V	45.15	11.18	32.41	48.42	54	-5.58
17811	22.97	AV	H	45.15	11.18	32.41	46.89	54	-7.11
17811	40.46	PK	V	45.15	11.18	32.41	64.38	74	-9.62
17811	41.16	PK	H	45.15	11.18	32.41	65.08	74	-8.92

**High Channel (2480 MHz) ( GFSK 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)
4960	38.25	AV	V	33.9	6.76	32.74	46.17	54	-7.83
4960	38.73	AV	H	33.9	6.76	32.74	46.65	54	-7.35
4960	48.18	PK	V	33.9	6.76	32.74	56.1	74	-17.9
4960	47.3	PK	H	33.9	6.76	32.74	55.22	74	-18.78
17823	24.05	AV	V	45.22	11.35	32.38	48.24	54	-5.76
17823	24.29	AV	H	45.22	11.35	32.38	48.48	54	-5.52
17823	42.38	PK	V	45.22	11.35	32.38	66.57	74	-7.43
17823	41.24	PK	H	45.22	11.35	32.38	65.43	74	-8.57

**Note:**

1, The testing has been conformed to  $10 \times 2480 \text{ MHz} = 24,800 \text{ MHz}$

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.

## Annex A. TEST INSTRUMENT

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

## Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo

Screen 1

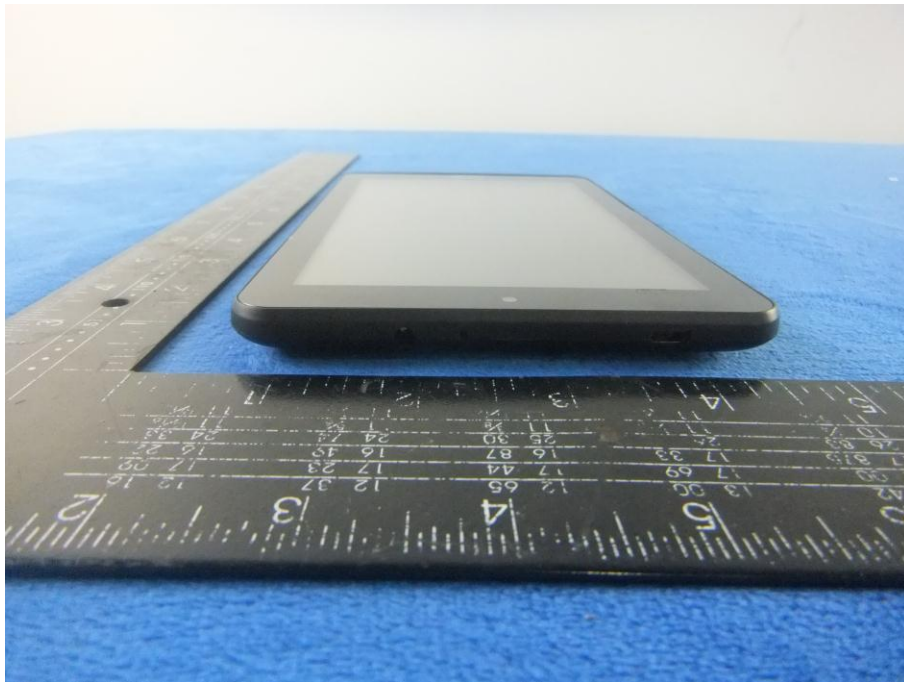
EUT - Front View



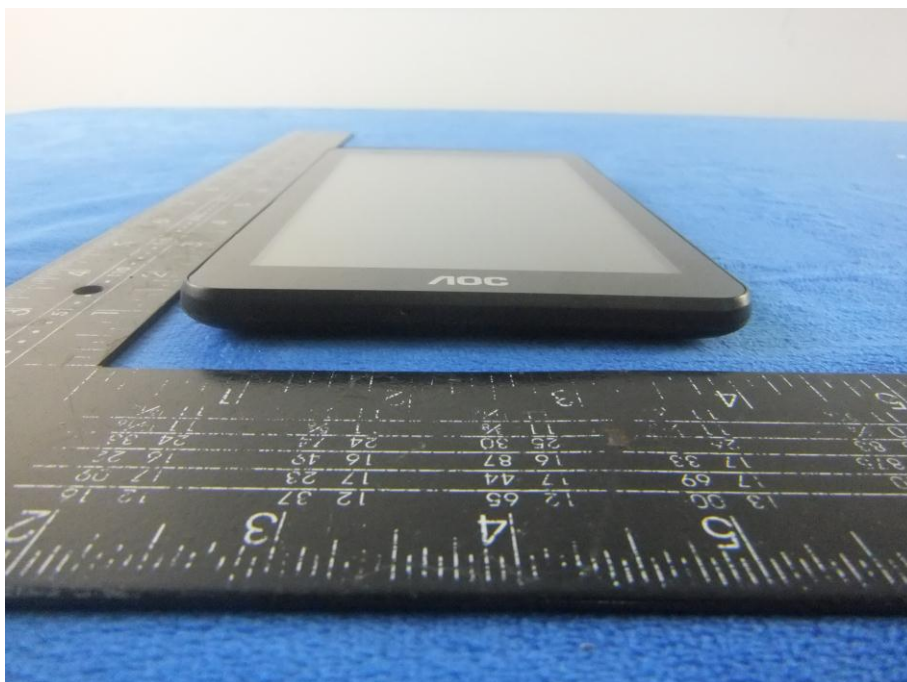
EUT - Rear View



EUT - Top View



EUT - Bottom View

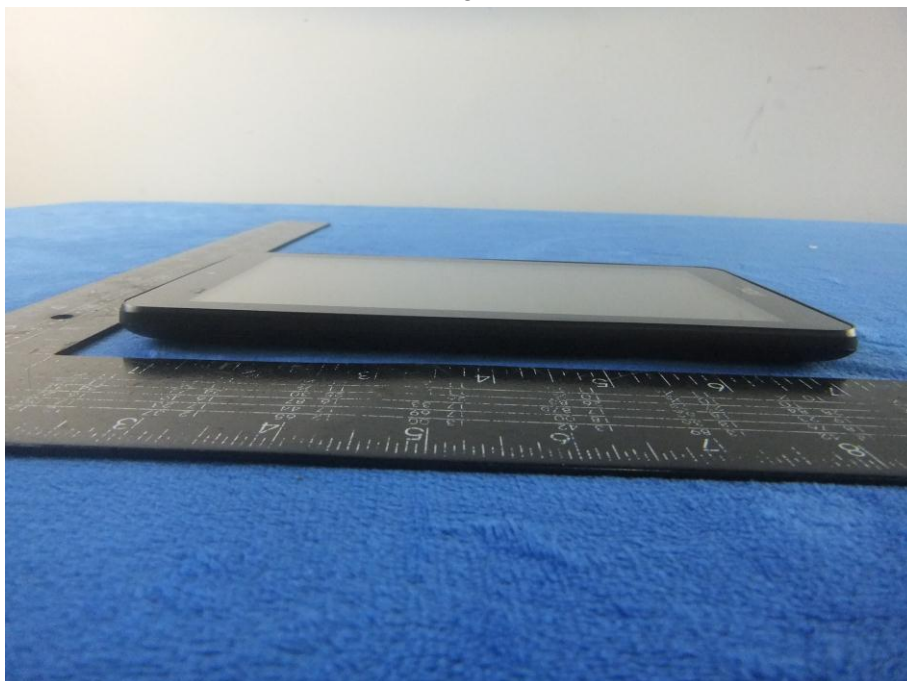




EUT - Left View



EUT - Right View



## Screen 2

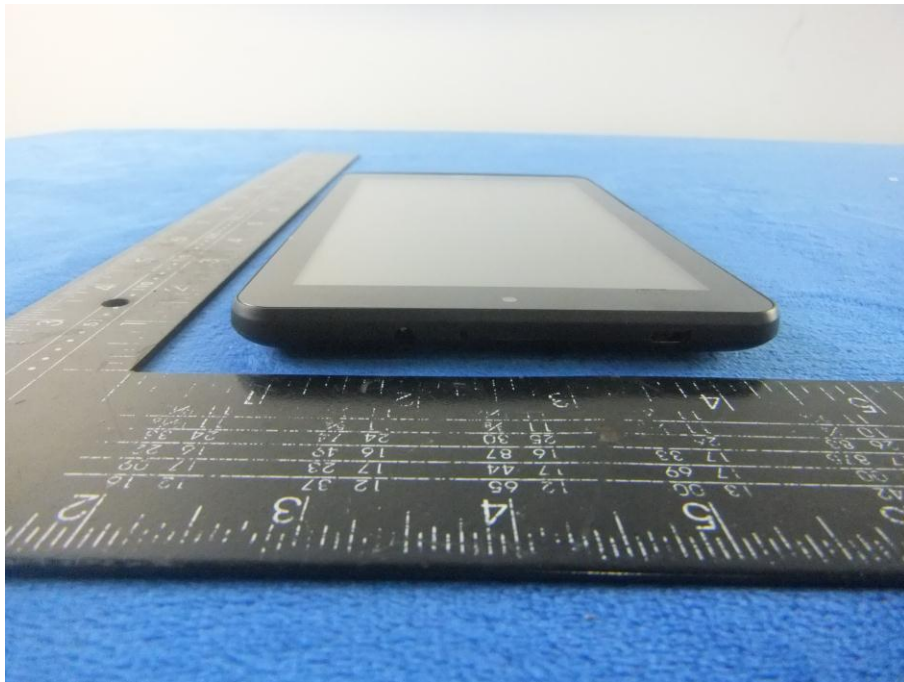
EUT - Front View



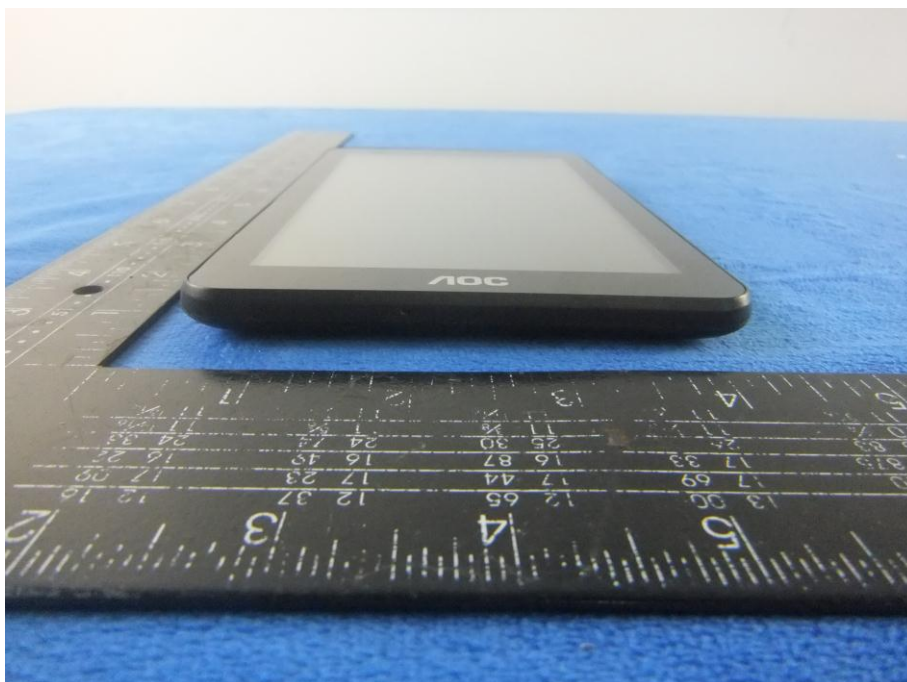
EUT - Rear View



EUT - Top View



EUT - Bottom View

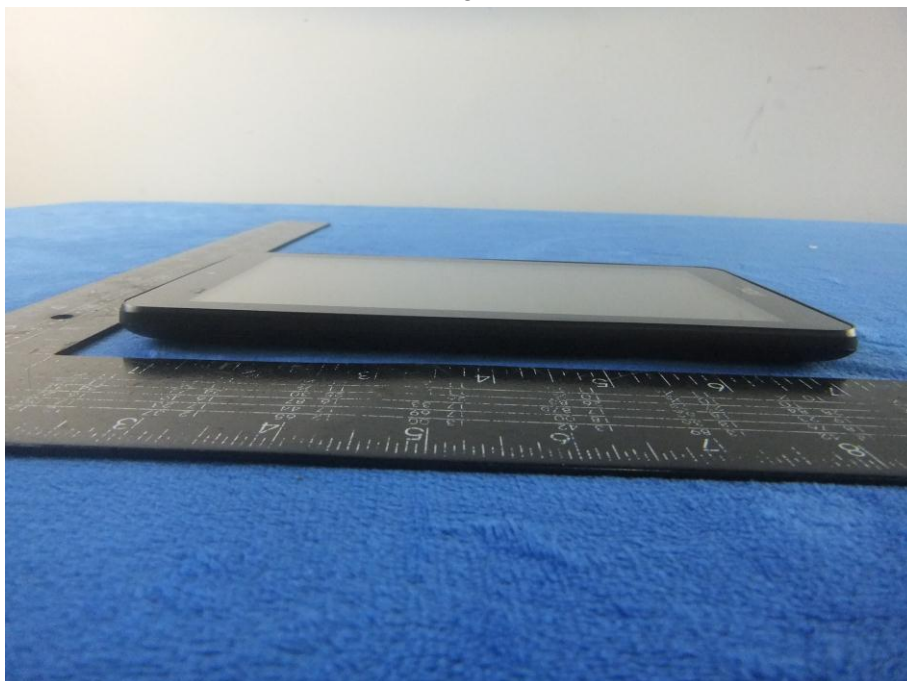




EUT - Left View



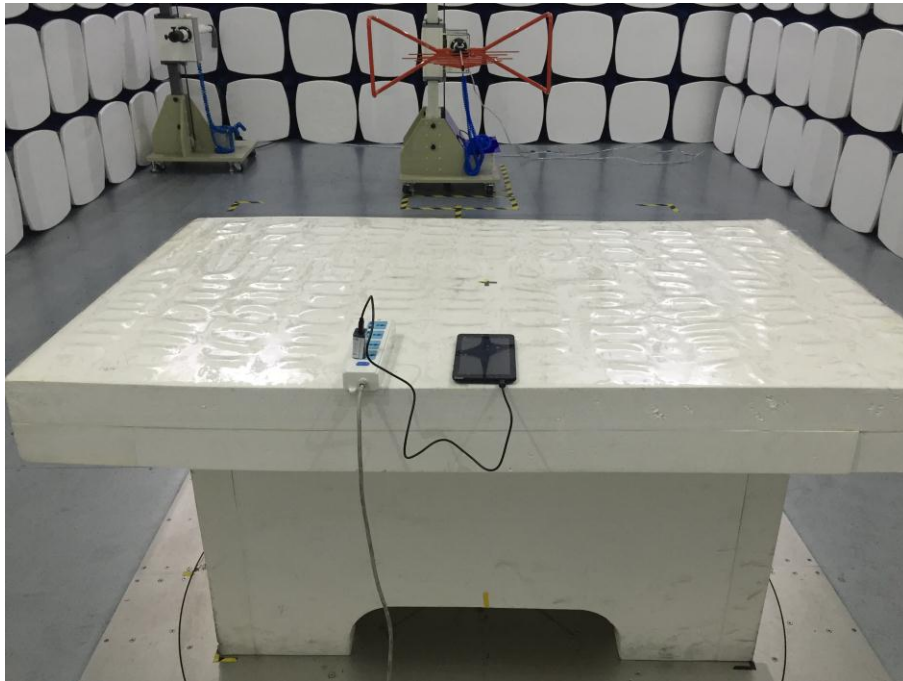
EUT - Right View



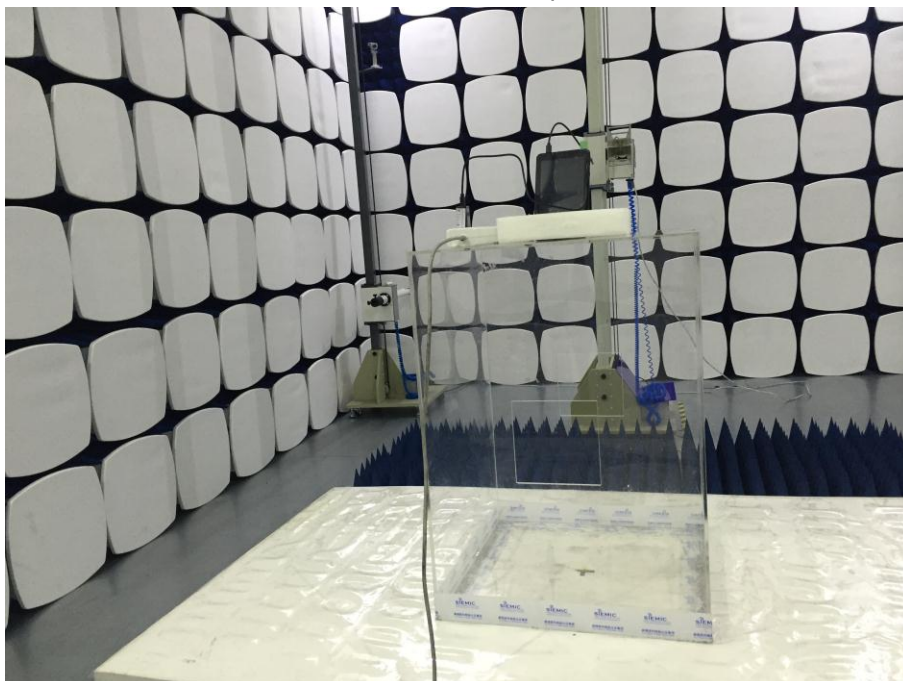
**Annex B.iii. Photograph: Test Setup Photo**

**Screen 1**

Radiated Spurious Emissions Test Setup Below 1GHz

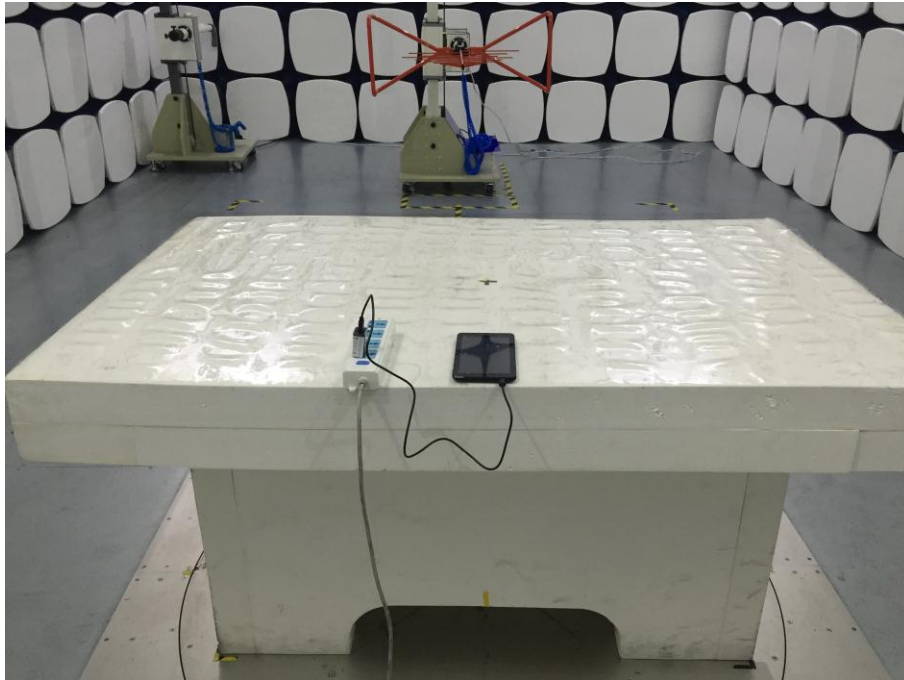


Radiated Emissions Test Setup Above 1GHz

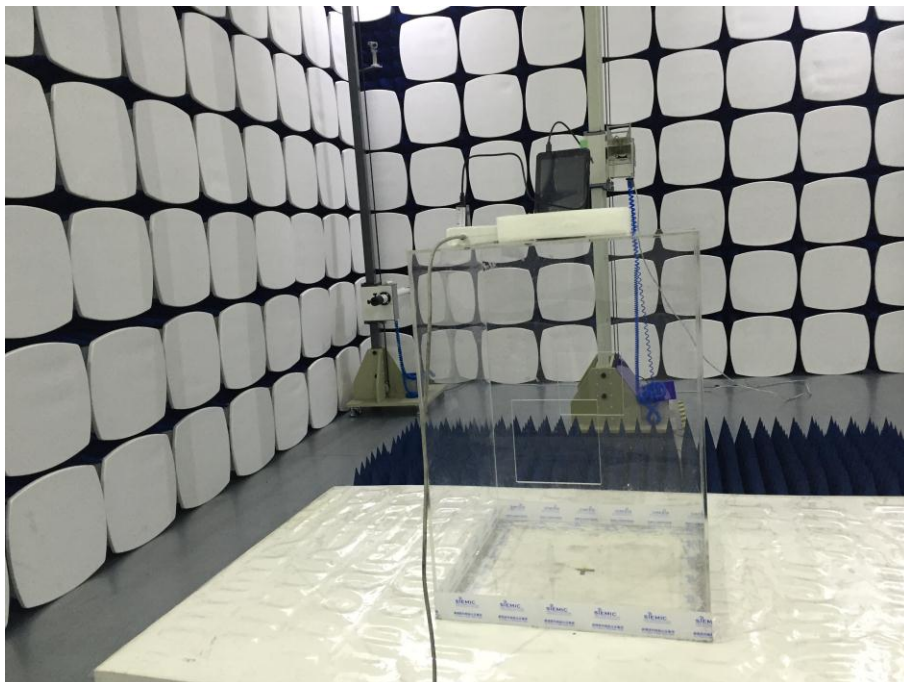


## Screen 2

Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Emissions Test Setup Above 1GHz

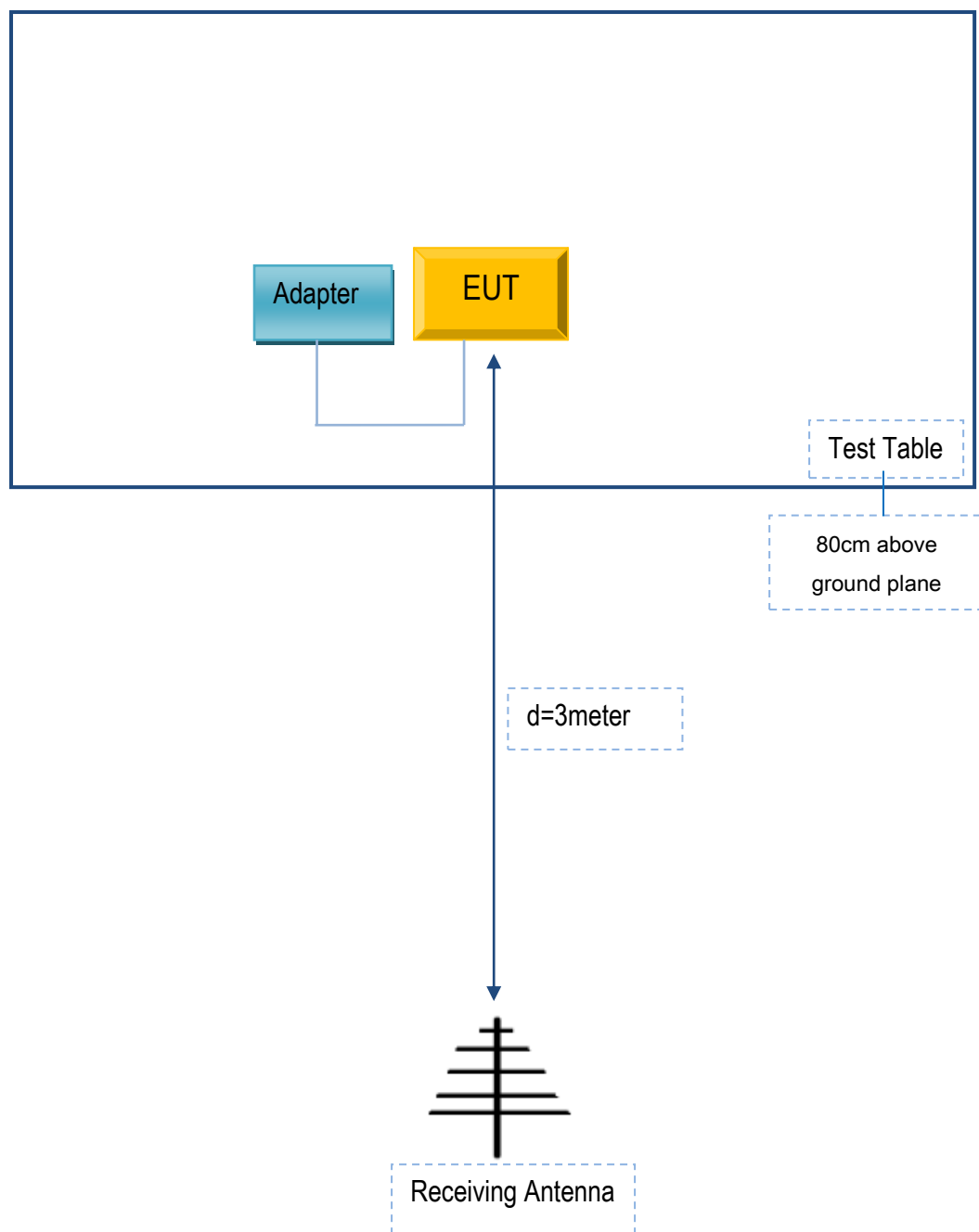


## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

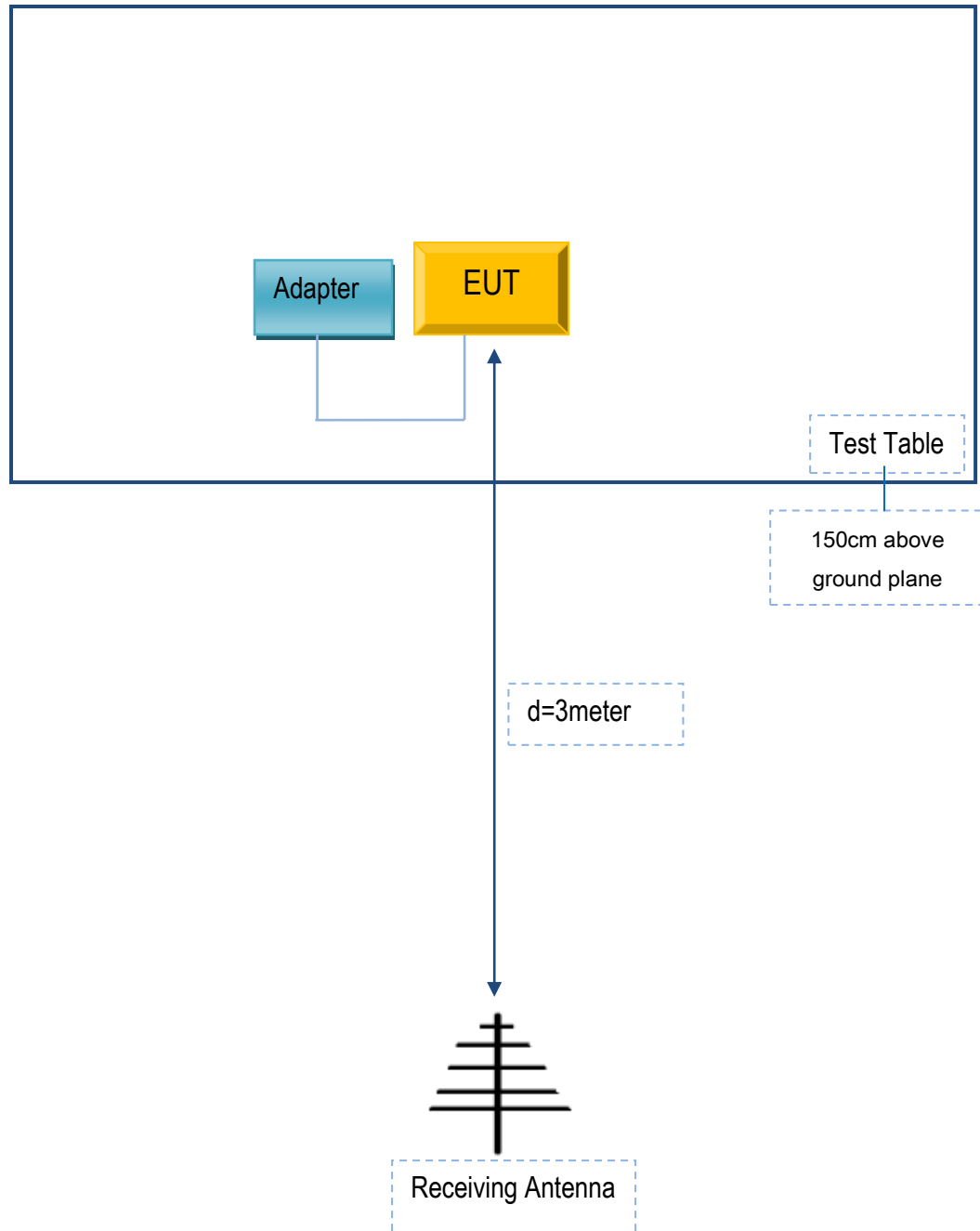
### Annex C.ii. TEST SET UP BLOCK

#### Screen 1& Screen 2

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



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



## **Annex C. ii. 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

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

Please see attachment

## Annex E. DECLARATION OF SIMILARITY