

FCC RADIO TEST REPORT

FCC ID: 2AFIA-MINIBOX

Product:	Android Sticker
Trade Name:	ugoos
Model Number:	minibox, MK809V, am1, am2, am3, MK809IV
Report No.:	POCE15072234NRM

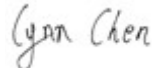

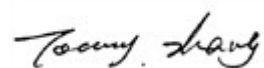
Prepared for

Ugoos industrial co., ltd
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Prepared by

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TEST RESULT CERTIFICATION	
Applicant's name	Ugoos industrial co., ltd
Address	Room2502 Wen'an Center, Wenjin Square, Wenjin North Road, Luohu District, Shenzhen, Guangdong Province, China
Manufacture's Name	Ugoos industrial co., ltd
Address	Room2502 Wen'an Center, Wenjin Square, Wenjin North Road, Luohu District, Shenzhen, Guangdong Province, China
Product description	
Product name.....	Android Sticker
Model and/or type reference	minibox, MK809V, am1, am2, am3, MK809IV
Ratings	AC 120V/60Hz
Standards	FCC Per 47 CFR 2.1091(b)
<p>This device described above has been tested by POCE, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.</p> <p>This report shall not be reproduced except in full, without the written approval of POCE, this document may be altered or revised by POCE, personal only, and shall be noted in the revision of the document.</p>	
Date of Test	
Date (s) of performance of tests	Nov. 30, 2015 ~ Dec. 05, 2015
Date of Issue.....	Dec. 05, 2015
Test Result	Pass

Testing Engineer	:	
		(Lynn Chen)
Technical Manager	:	
		(Carlen Liu)
Authorized Signatory	:	
		(Tommy zhang)

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY

1.1. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer

- - supplied by the lab

- AC adapter

Manufacturer: ugoos Industrial co.,Ltd

Model: Ug1

1.2. Equipment Under Test

Power supply system utilised

Power supply voltage : 120V / 60 Hz 115V / 60Hz
 12 V DC 24 V DC
 Other (specified in blank below)

1.3. Description of the test mode

IEEE 802.11b/g/n(HT20): Thirteen channels are provided to the EUT, but only eleven channels used for USA.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

1.4. NOTE

The EUT is a Android Sticker, The functions of the EUT listed as below:

	Test Standards	Reference Report
WLAN 802.11b/g, 802.11n	FCC Part 15 Subpart C (Section15.247)	POCE15072234NRR
	FCC Per 47 CFR 2.1091(b)	POCE15072234NRM

The frequency bands used in this EUT are listed as follows

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
802.11b	√	-	-	-
802.11g	√	-	-	-
802.11n(20MHz)	√	-	-	-

Modulation Mode	TX Function
802.11b	1 TX
802.11g	1 TX
802.11n(20MHz)	1 TX

2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen POCE Technology Co.,Ltd.

Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen, China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 22/EN 55022 requirement.

2.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

2.3. Statement of the measurement uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

3.2. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

3.4. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna is 2.0 dBi, the RF power density can be obtained.

TEST RESULTS

For 802.11 b

Test Frequency (MHz)	Minimum Separation Distance (cm)	Peak Output Power (dBm)	Peak Output Power (mW)	Antenna Gain (Nemeric)	Power Density Limit (mW/cm ²)	Power Density At 20 cm (mW/cm ²)	Test Results
2412	20.00	15.33	34.12	1.5849	1.000	0.0108	Pass
2437	20.00	15.01	31.70	1.5849	1.000	0.0100	Pass
2462	20.00	15.26	33.57	1.5849	1.000	0.0106	Pass

For 802.11 g

Test Frequency (MHz)	Minimum Separation Distance (cm)	Peak Output Power (dBm)	Peak Output Power (mW)	Antenna Gain (Nemeric)	Power Density Limit (mW/cm ²)	Power Density At 20 cm (mW/cm ²)	Test Results
2412	20.00	13.28	21.28	1.5849	1.000	0.0067	Pass
2437	20.00	13.04	20.14	1.5849	1.000	0.0063	Pass
2462	20.00	12.93	19.63	1.5849	1.000	0.0062	Pass

For 802.11 n (20MHz)

Test Frequency (MHz)	Minimum Separation Distance (cm)	Peak Output Power (dBm)	Peak Output Power (mW)	Antenna Gain (Nemeric)	Power Density Limit (mW/cm ²)	Power Density At 20 cm (mW/cm ²)	Test Results
2412	20.00	12.69	18.58	1.5849	1.000	0.0059	Pass
2437	20.00	12.74	18.79	1.5849	1.000	0.0059	Pass
2462	20.00	12.90	19.50	1.5849	1.000	0.0061	Pass

4. C o n c l u s i o n

The measurement results comply with the FCC Limit per 47 CFR 2.1091 (b) for the controlled RF Exposure.

.....**End of Report**.....