



FCC 47 CFR PART 15 SUBPART C 15.247

TEST REPORT

FOR

WIFI SMART PLUG MINI

Model : MK100, MK101, MK102, MK103, MK104, MK105,
MK106, MK107, MK108, MK109, MK110

Issued to

MOKO TECHNOLOGY LIMITED

2F, Building1, No.37 Xiaxintang Xintang village, Fucheng Street, Longhua
District, Shenzhen, Guangdong Province, China

Issued by

WH Technology Corp.



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1. GENERAL INFORMATION

**Applicant/
Manufacturer** : MOKO TECHNOLOGY LIMITED
Address : 2F, Building1, No.37 Xiaxintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China
Factory : MOKO TECHNOLOGY LIMITED
Address : 2F, Building1, No.37 Xiaxintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China
EUT : WiFi Smart Plug Mini
Model Name : MK100, MK101, MK102, MK103, MK104, MK105, MK106, MK107, MK108, MK109, MK110
Trade Name : N/A
Model Differences : Only model name is different, the other exactly the same. Model name difference is only for different customer needs.

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2013. The said equipment in the configuration described in this report shows the maximum emission levels emanating

FCC part 15 Subpart C


Receipt Date : 04/02/2018

Final Test Date :04/02/2018

Tested By:


Reviewed by:

April 2,
2018
(Date)


Bing Chang/ Engineer

April 2, 2018
(Date)




Bell Wei / Manager

Designation Number: TW2954



EUT Specification

EUT:	WiFi Smart Plug Mini
M/N:	MK100
Frequency band: (Operating)	<input checked="" type="checkbox"/> WLAN:2.142G~2.462GHz <input type="checkbox"/> WLAN:5.18G~5.32GHz/5.50GHz~5.70GHz <input type="checkbox"/> WLAN:5.745G~5.825GHz <input type="checkbox"/> Others(Bluetooth:2.402GHz~2.480GHz)
Device category:	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others ____
Antenna diversity:	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. Output Power:	22.34dBm
Antenna Type:	PCB Antenna
Antenna gain:	3dBi
Evaluation applied:	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation



Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm2)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-1	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = gain of antenna in linear scale

π =3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is Reached.

Measurement Result

Channel	Channel Frequency (MHz)	Max Output power (dBm)	Tolerance	Antenna gain	Max Tune-UP power (mW)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)
Test Mode: 802.11b							
Low	2412	22.09	±0.5	3dBi	181.5515	0.072066	1
Middle	2437	21.72	±0.5	3dBi	166.7247	0.066180	1
High	2462	22.29	±0.5	3dBi	190.1078	0.075462	1
Test Mode: 802.11g							
Low	2412	22.22	±0.5	3dBi	187.0682	0.074256	1
Middle	2437	22.34	±0.5	3dBi	192.3091	0.076336	1
High	2462	22.24	±0.5	3dBi	187.9316	0.074598	1
Test M ode: 802.11n(HT20)							
Low	2412	21.27	±0.5	3dBi	150.3141	0.059666	1
Middle	2437	21.34	±0.5	3dBi	152.7566	0.060636	1
High	2462	21.11	±0.5	3dBi	144.8771	0.057508	1

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