



FuXin SWD-FH01A WIFI antenna acknowledgment

Product Specifications for Approval

Material Coding: WF2365B-0812R-34

Client Coding: E130000051

The customer name: FuXin

Models: SWD-FH01A

Antenna band: WIFI

Version: R-A

Date: 2020-5-23

Shenzhen ShunDaCheng Technology Co.,Ltd.			
MD:	Yulong zhang	RF:	Liwen Ceng
Audit:	Qiang Chen	Approval:	Huaming Chen
Customer Confirmation			
Customer audit:		Customer approval:	

Company address: Floor 4, building B5, xinfu industrial park, chongqing road, fuyong town, baoan district, shenzhen

The phone: 0755-27211658

Fax: 0755-29485750

1. Project information and Electrical Specification

Those specifications were specially defined for **FuXin SWD-FH01A** WiFi , and all characteristics were measured under the model's handset testing jig .

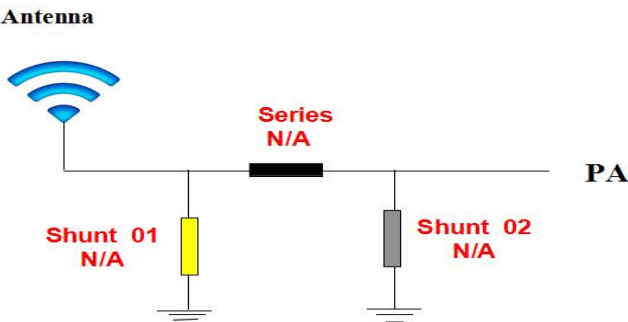
1-1 Antenna picture



1-2 Frequency Band:

Frequency Band	MHz
WIFI	2400-2500 （MHz）

1-3 Impedance matching



Antenna original match without change

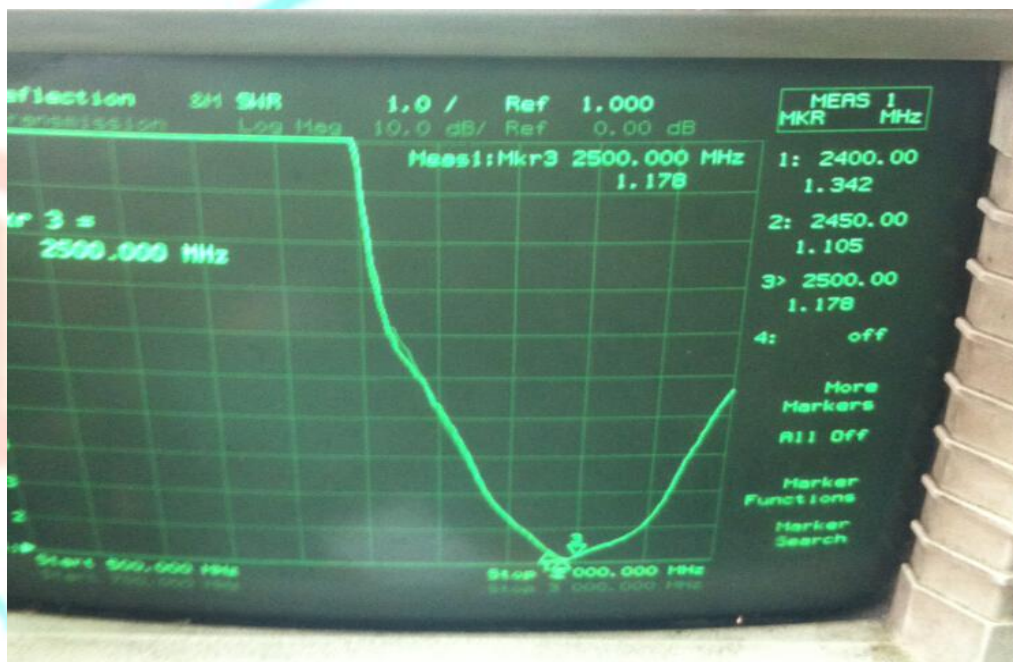
2.VSWR

Measuring Method:

1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm.

VSWR parameter values

frequency (MHZ)	2400	2450	2500
Standing wave	1.34	1.10	1.17



3. Efficiency and Gain

Microwave Darkroom, Agilent Network Analyzer, Agilent Spectrum Analyzer, 8960 Integrated Tester, Standard Antenna

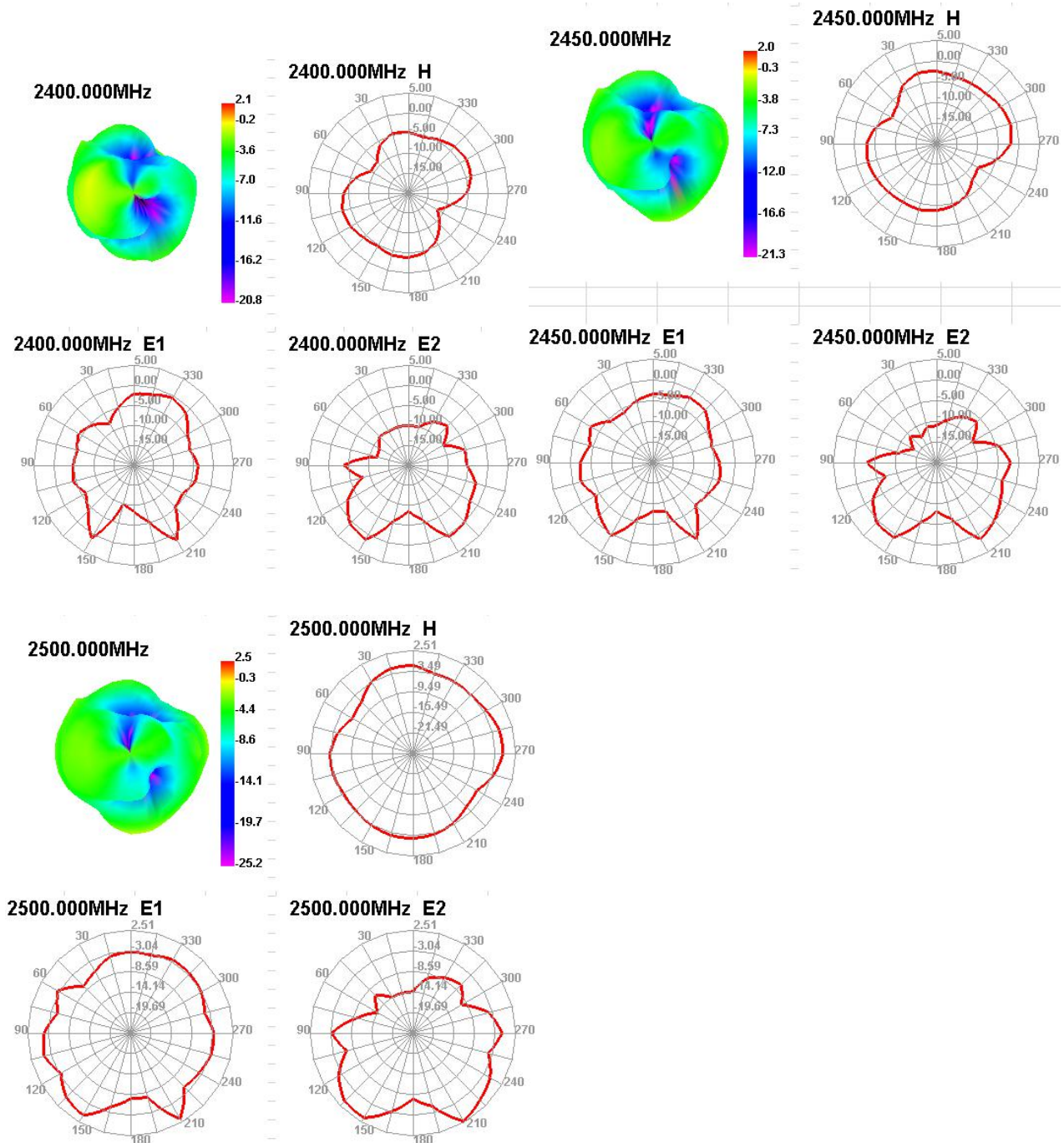
* Test method:

The equipment is fixed at the center of the turntable in the center of the turntable, with the center of the horn antenna on the same horizontal line.

Efficiency/Gain- WIFI

Passive Test For 2.4G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	39.09	-4.08	2.12	-0.03	13.69	25.397	2.12	-20.76	49.4	49
2450	41.88	-3.89	2.02	-0.13	14.078	26.8	2.02	-21.27	49.69	49.47
2500	41.81	-3.58	2.51	0.36	13.974	29.832	2.51	-25.24	49.66	49.57

2400.00MHz - 2500.00MHz Gain



4.The production index

Antenna production, the standing wave ratio as a production test standards.

According to the difference between the project itself, given the following criteria:

frequency	Production standards
WIFI	VSWR (Production products) <VSWR(Design samples)+/-0.5

5.Ground handling

No environmental treatment