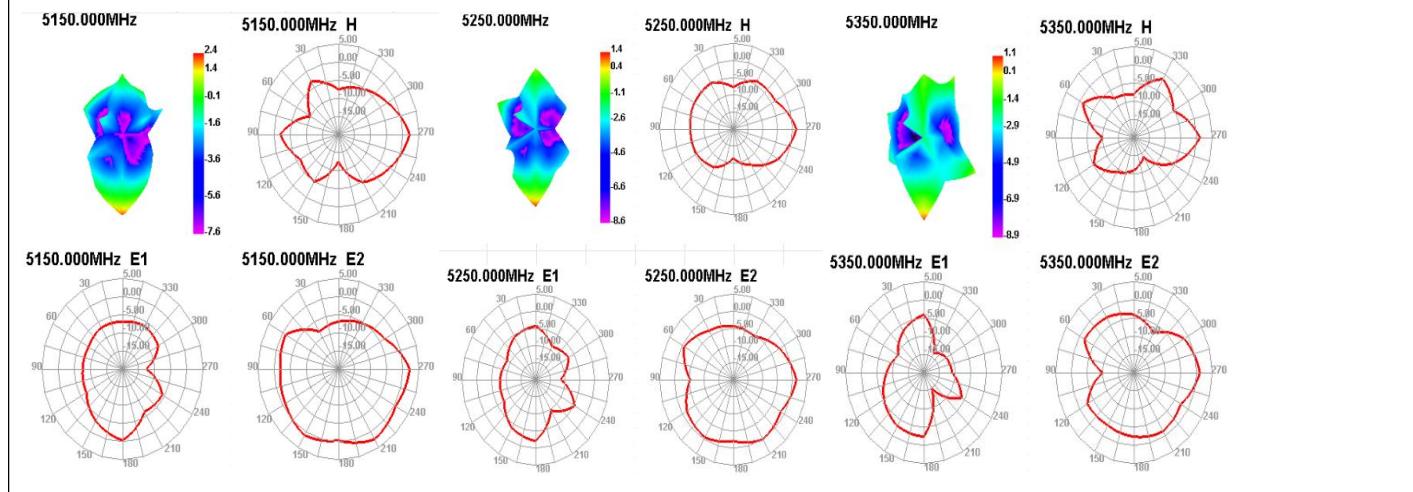
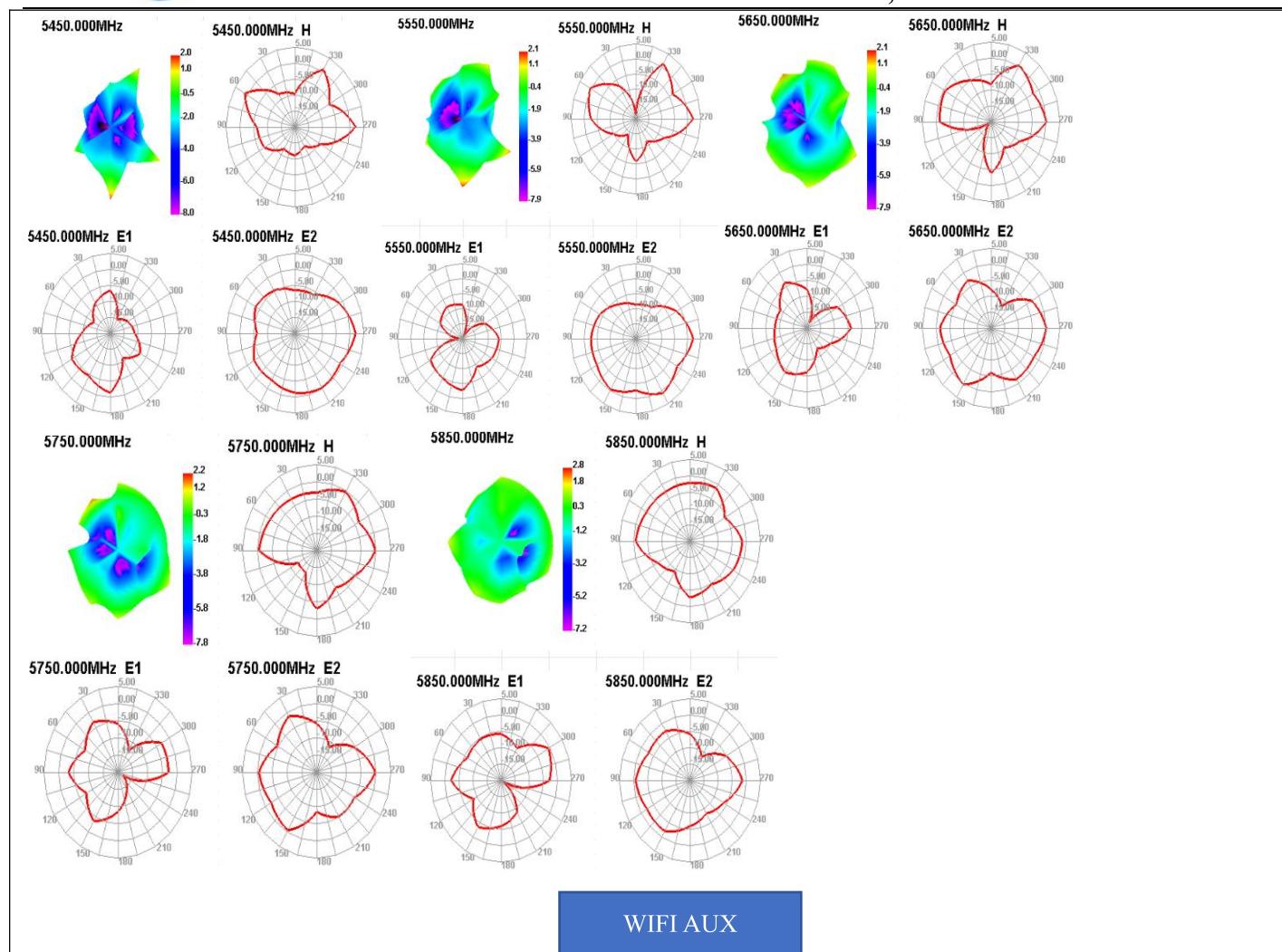


Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBi)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	42.13	-3.75	2.36	0.21	16.688	25.441	2.36	-12.69	6.11	0	58.6	58.01
5250	36.5	-4.38	1.37	-0.78	16.245	20.256	1.37	-11.52	5.75	30	58.53	57.74
5350	33.61	-4.73	1.07	-1.08	14.487	19.127	1.07	-15.18	5.81	60	57.99	57.08
5450	38.75	-4.12	2.03	-0.12	14.442	24.308	2.03	-15.14	6.15	0	59.19	57.9
5550	43.16	-3.65	2.14	-0.01	15.599	27.564	2.14	-19.43	5.79	60	60.21	58.81
5650	45.41	-3.43	2.1	-0.05	16.711	28.699	2.1	-20.47	5.53	0	60.31	59.42
5750	46.58	-3.32	2.17	0.02	17.996	28.581	2.17	-18	5.49	30	60.88	60.28
5850	44.83	-3.48	2.78	0.63	18.496	26.336	2.78	-23.77	6.27	30	61.09	60.41





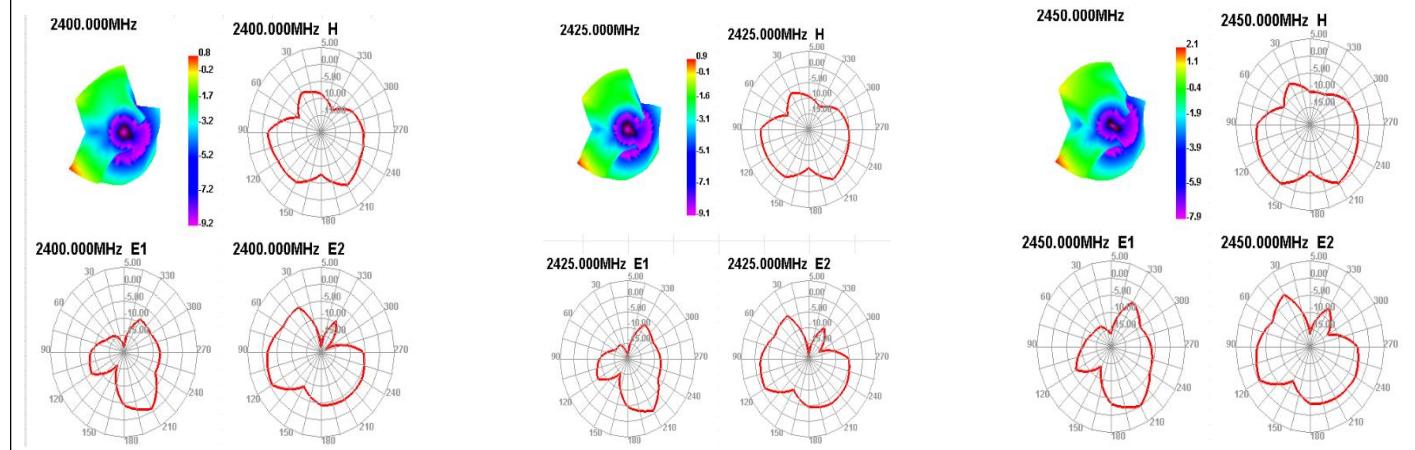
## SHEN DA CHENG ELECTRONICS CO., LTD



WIFI AUX

### Passive Test For 2.4G

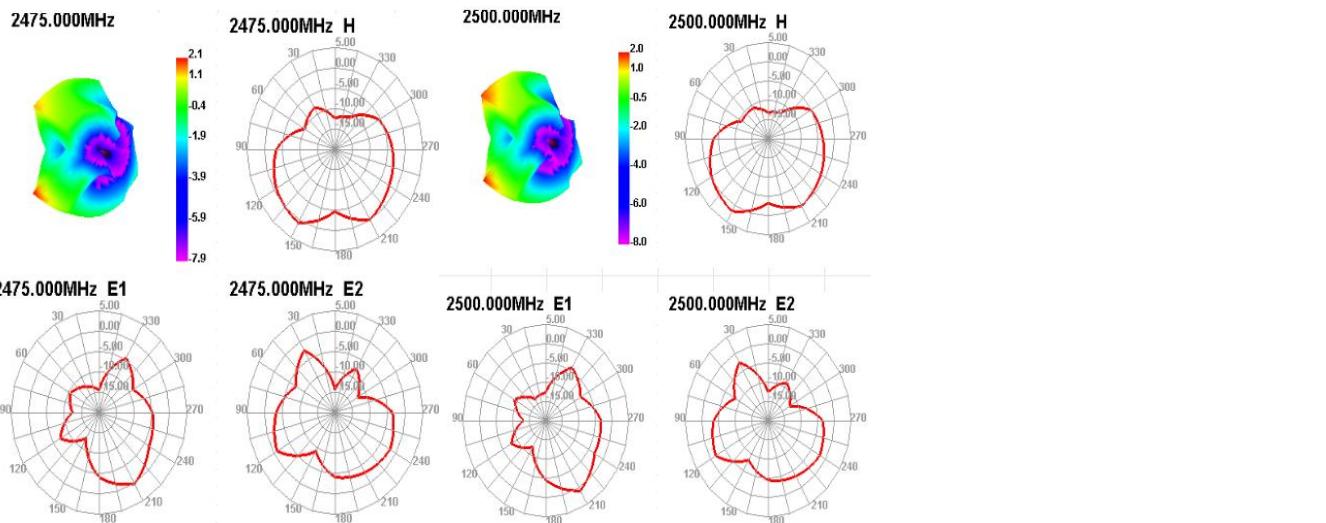
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBD)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	38.44	-5.46	0.77	-1.38	12.679	15.766	0.77	-18.83	6.23	0	47.77	47.82
2425	39.79	-5.26	0.87	-1.28	13.617	16.17	0.87	-19.66	6.13	0	48.06	48.12
2450	42.31	-4.06	2.11	-0.04	18.48	20.826	2.11	-18.63	6.17	0	48.56	48.53
2475	43.22	-3.96	2.12	-0.03	18.982	21.237	2.12	-18.5	6.07	0	48.46	48.26
2500	42.7	-3.7	2.01	-0.14	20.32	22.382	2.01	-17.46	5.7	0	48.42	48.12



Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Bao'an District, Shenzhen    TEL:0755-27211658    FAX:0755-29485750

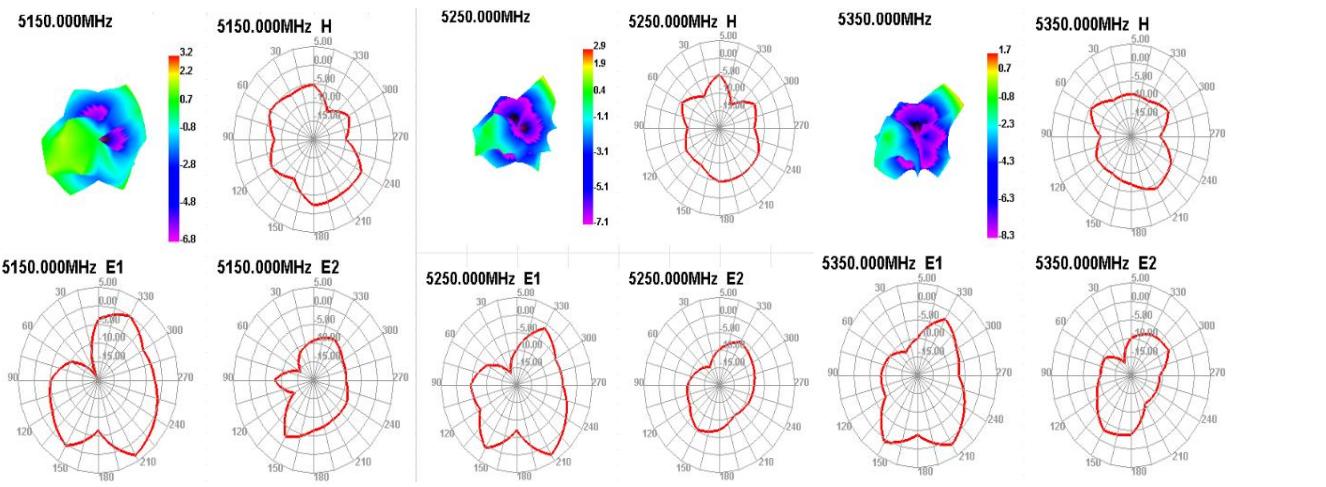


## SHEN DA CHENG ELECTRONICS CO., LTD

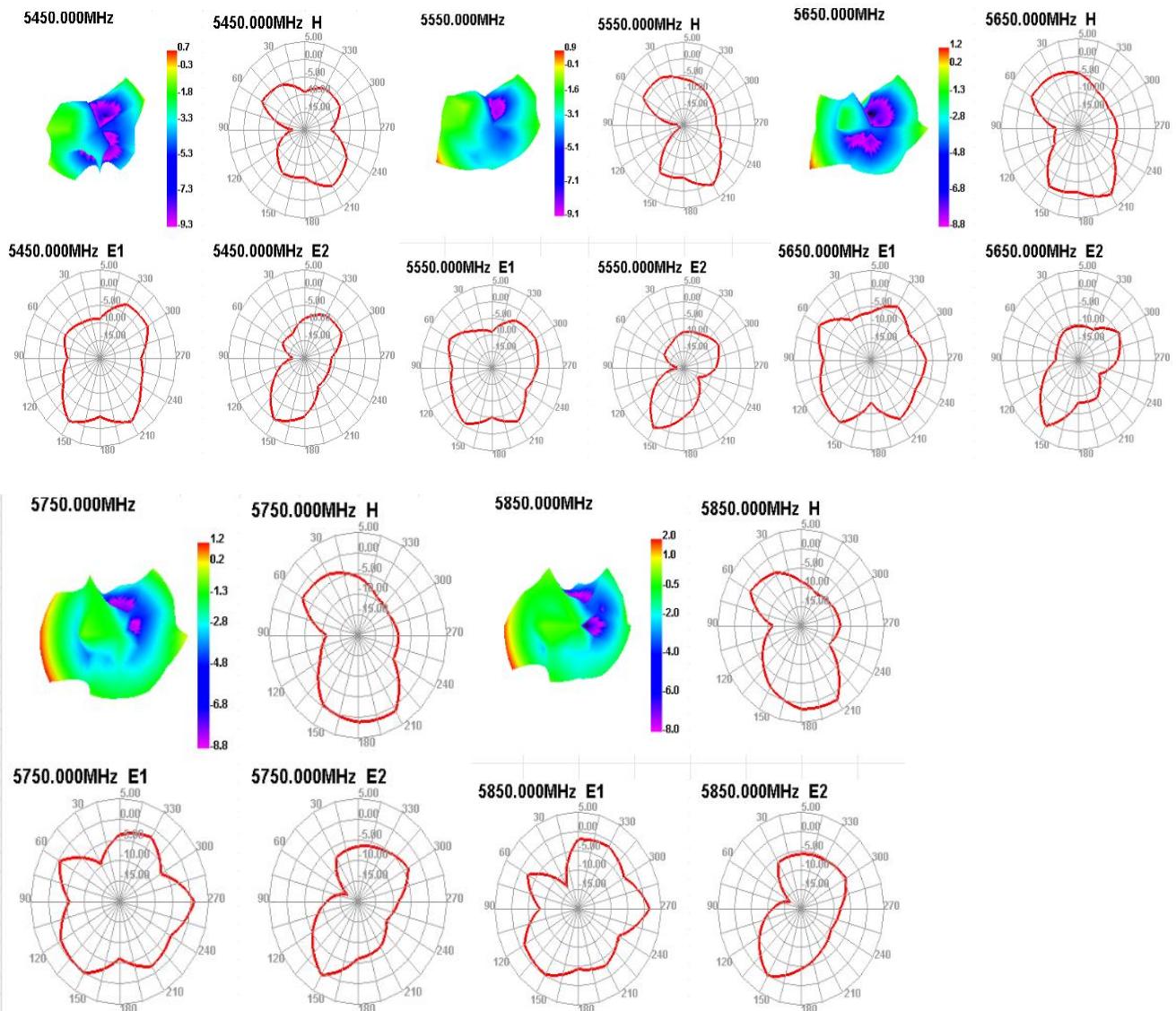


Passive Test For 5.8G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBD)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	40.29	-3.95	3.22	1.07	13.819	26.475	3.22	-21.65	7.17	30	58.6	58.01
5250	39.81	-4.84	2.89	0.74	10.959	21.849	2.89	-16.2	7.73	0	58.53	57.74
5350	37.08	-5.67	1.66	-0.49	8.676	18.408	1.66	-16.08	7.33	0	57.99	57.08
5450	38.77	-5.41	0.68	-1.47	11.252	17.523	0.68	-16.09	6.09	0	59.19	57.9
5550	39.05	-5.08	0.93	-1.22	13.257	17.792	0.93	-18.73	6.01	0	60.21	58.81
5650	40.99	-4.44	1.25	-0.9	14.61	21.381	1.25	-14.34	5.69	30	60.31	59.42
5750	39.86	-3.99	1.17	-0.98	17.494	22.366	1.17	-16.91	5.17	0	60.88	60.28
5850	40.32	-3.94	1.96	-0.19	19.19	21.132	1.96	-16.4	5.91	0	61.09	60.41



Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Bao'an District, Shenzhen TEL:0755-27211658 FAX:0755-29485750



#### 4. The production index

When the antenna is mass-produced, the standing wave ratio is used as the mass production test standard.

According to the differences of the project itself, the following criteria are given:

frequency	standard Specification
WIFI2.4G/5.8G	VSWR (Output) <VSWR(DC)+/-0.5



## Reliability Test Report

Test Date	2025. 05. 06	Sample Qty.	3	Inspector	Xu Yanfang	
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG
high temperature storage	Expose to +85 °C for 24 hours, recover for 2 hours, and conduct testing	Constant temperature and humidity box	OK	OK	OK	Pass
low temperature storage	Expose to -40 °C for 24 hours, recover for 2 hours, and perform testing	Constant temperature and humidity box	OK	OK	OK	Pass
High temperature operation	Powered on for 24 hours at +60 °C	Constant temperature and humidity box	OK	OK	OK	Pass
Low temperature operation	Powered on for 24 hours at -20 °C	Constant temperature and humidity box	OK	OK	OK	Pass
Salt spray test	(5 ± 0.5)% sodium chloride, pH value is 6.5~7.2, Temperature of experimental chamber (35±2) °C <input type="checkbox"/> 24H <input checked="" type="checkbox"/> 48H	Salt spray testing machine	OK	OK	OK	Pass
Connector riveting and pulling force	1.13Wire diameter ≥ 10N 0.81Wire diameter ≥ 8N RG174 ≥ 60N RG178 ≥ 50N	Push-pull force gauge	≥10N	≥10N	≥10N	Pass
Conclusion						Pass
Inspector & Date	Xu Yanfang 2025. 05. 06		Approval & Date			

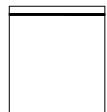


## Packing rules

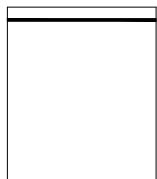
Project name: F215Q

Product name: PCB

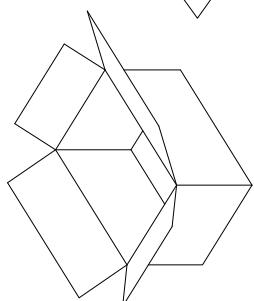
PCB antenna (one)



(two) Each PE bag contains 100pcs of products (subject to actual packaging)



(three) Then put the small antenna bag neatly into (Figure 3) and fill 10 small bags (the actual packaging shall prevail).



(four) The packaged antenna can be put into a carton, which can hold 5 large bags, each box can hold 5000PCS (Figure 4). (Subject to actual packaging)



supplier	
purchase order number	
material code	
specifications and models	
quantity	
date	

(five) After the packaging is completed, the shipping label should be affixed (Figure 5).



Install Wizard or Other

**setup script:**

Take 1 PCS of product, tear off the release paper on the back of the FPC by hand, and then align the FPC positioning hole position with the shell positioning hole position (positioning rib position or positioning line), and attach it flat to the shell, as shown in the following figure:

**Installation process precautions:**

- Ensure that the FPC is fully attached to the housing after pasting the antenna;
- Align the positioning hole with the position of the casing positioning column;
- Align FPC edge with shell edge;
- When attaching the terminal to the PCBA end of the motherboard, please first align the terminals and then snap them vertically;
- When disassembling antenna terminals, it is necessary to use a tool (such as a special pry bar) to vertically lift the terminals and not directly pull the wires for disassembly





RoHS

# Certificate

Certificate Number: UNIB23083106HC-01



Product: 5G/4G/WIFI/GPS/BT antenna

Applicant: ShenZhen ShunDaCheng Technology Co., Ltd.

4th Floor, Building B5, Xinfu Industrial Zone, Fuyong Chongqing Road,  
Baoan District, Shenzhen

Manufacturer: N/A

Model No.: N/A

Trade Name: N/A

Test Methods: IEC 62321-2:2021, IEC 62321-3-1:2013, IEC 62321-4:2013 +A1:2017,  
IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015  
IEC 62321-7-2:2017, IEC 62321-8:2017

The laboratory tested the product provided by the applicant according to the above test methods.

According to the test results, the product conforms to RoHS Directive [(2011/65/EU and Amendment (EU) 2015/863)] issued by the European Commission. It is possible to use CE marking to demonstrate the compliance with RoHS Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: UNIB23083106HR-01.

**Note:** According to the requirements of the applicant for testing, details are shown in the test report.

**RoHS**

Sep. 06, 2023  
Issue Date

*Hoffer Lau*  
Hoffer Lau

**CE**



Shenzhen United Testing Technology Co., Ltd.

Shenzhen: D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community, Dalang Sub-District  
Longhua District, Shenzhen, Guangdong, China/518109  
Guangzhou: No.47-3, Industrial Road, Zhushan, Dalong Street, Panyu District, Guangzhou, Guangdong,  
China/511450;  
101/F, Building 2, Tongxin Industrial Park, Xinqiao Village, Dalong Street, Panyu District, Guangzhou,  
Guangdong, China/511450  
Tel: +86-755-86180996/+86-020-39277769 Fax: +86-0755-86180156  
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Certificate Of Compliance