

# Shenzhen Yishengbang Technology Co. LTD

## Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: MAIDIJIE

Project: MPC43

Product: WIFI Antenna—FPC

Report date: 2023.05.08

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Approved by :

# ***Purpose***

This report is to measure the performance of SLK for Master Antenna on MAIDIJIE. All measure data are showed below.

## ***Content***

1. Product Overview
2. Test Result
  - 2.1 VSWR/S11
  - 2.2 Antenna Parameters
  - 2.3 WIFI Antenna TRP/TIS
  - 2.4 WIFI Antenna Gain/Efficiency/3D DATA
  - 2.5 WIFI Antenna Throughput
  - 2.6 BT Throughput
  - 2.7 Antenna Size Diagram
3. Conclusions

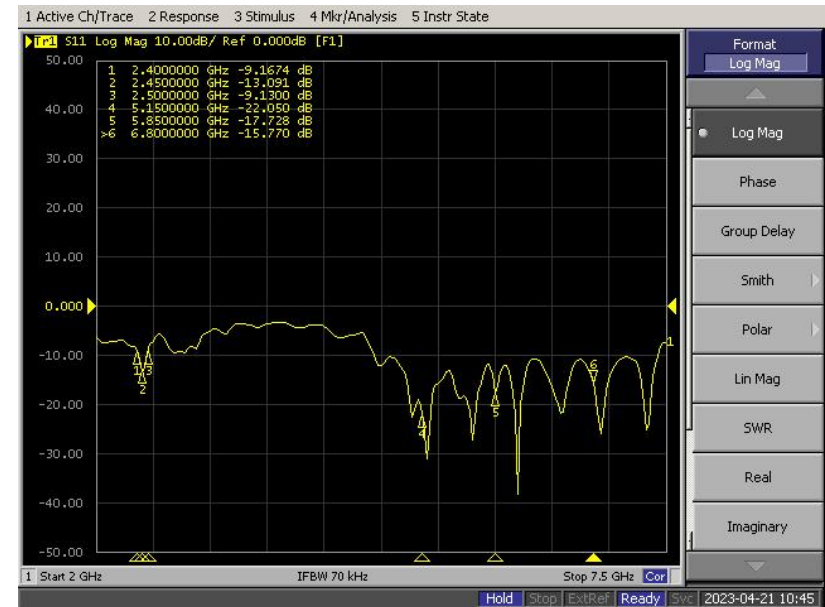
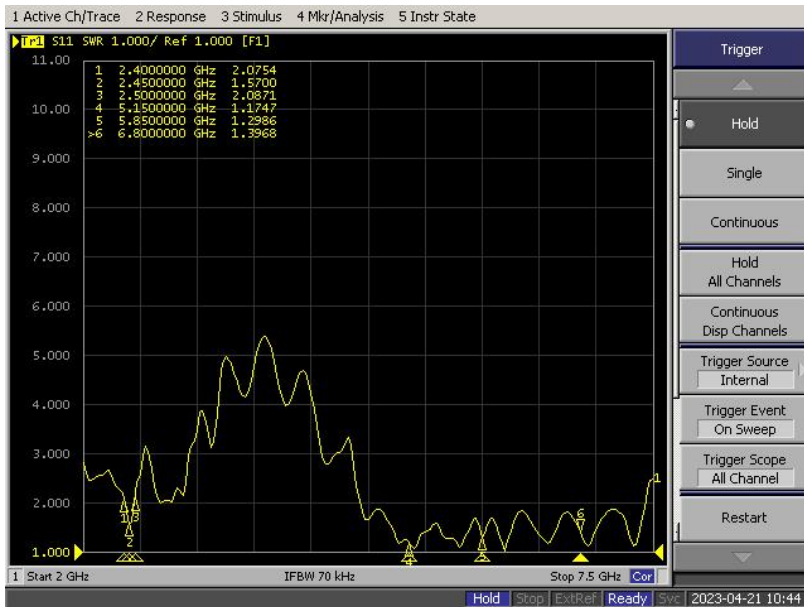
# 1. Product Overview



# 2. Test Result

## 2.1 VSWR/S11

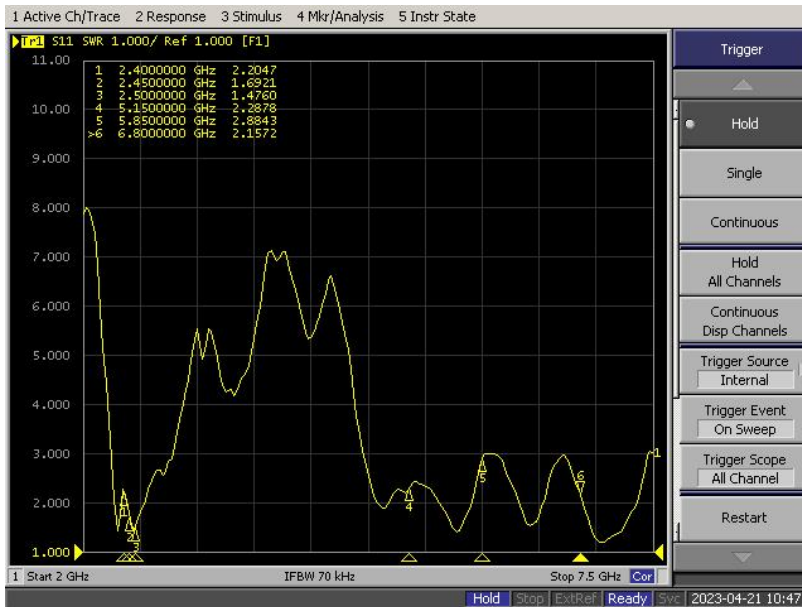
MAIN



# 2. Test Result

## 2.1 VSWR/S11

AUX

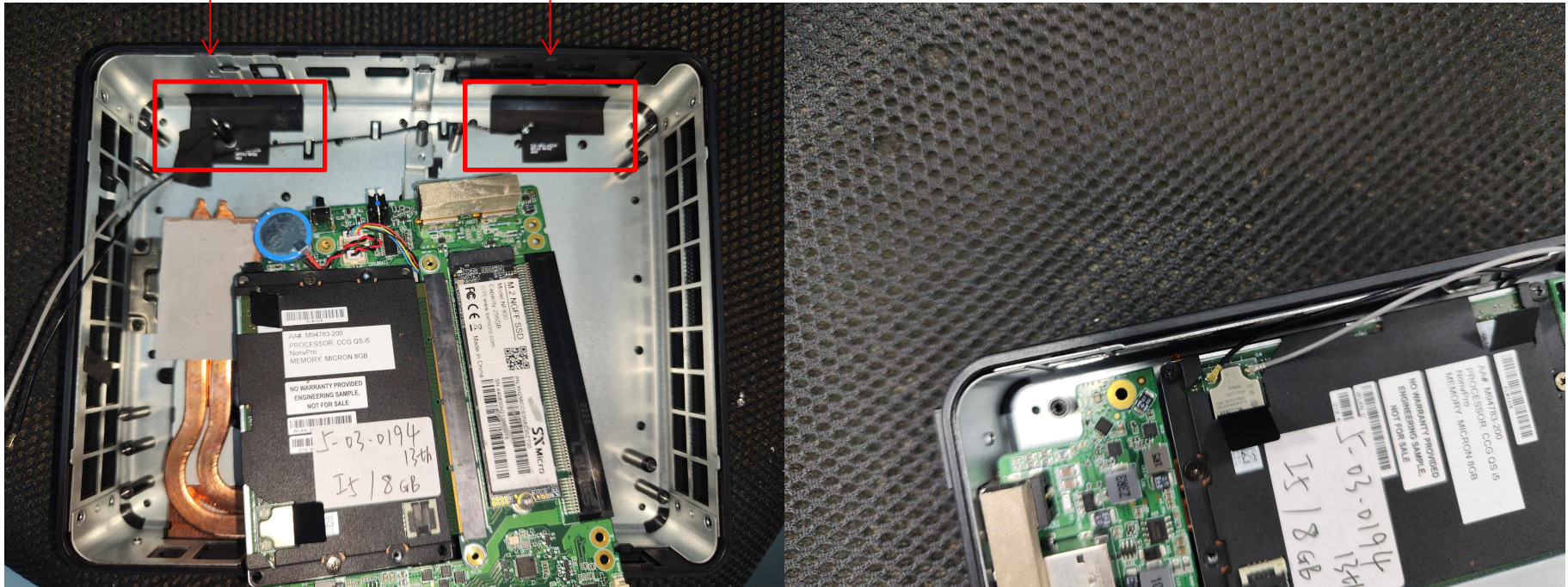


# 2. Test Result

## 2.2 Antenna Parameters

AUX

MAIN



## 2. Test Result

### 2.3 WIFI Antenna TRP/TIS

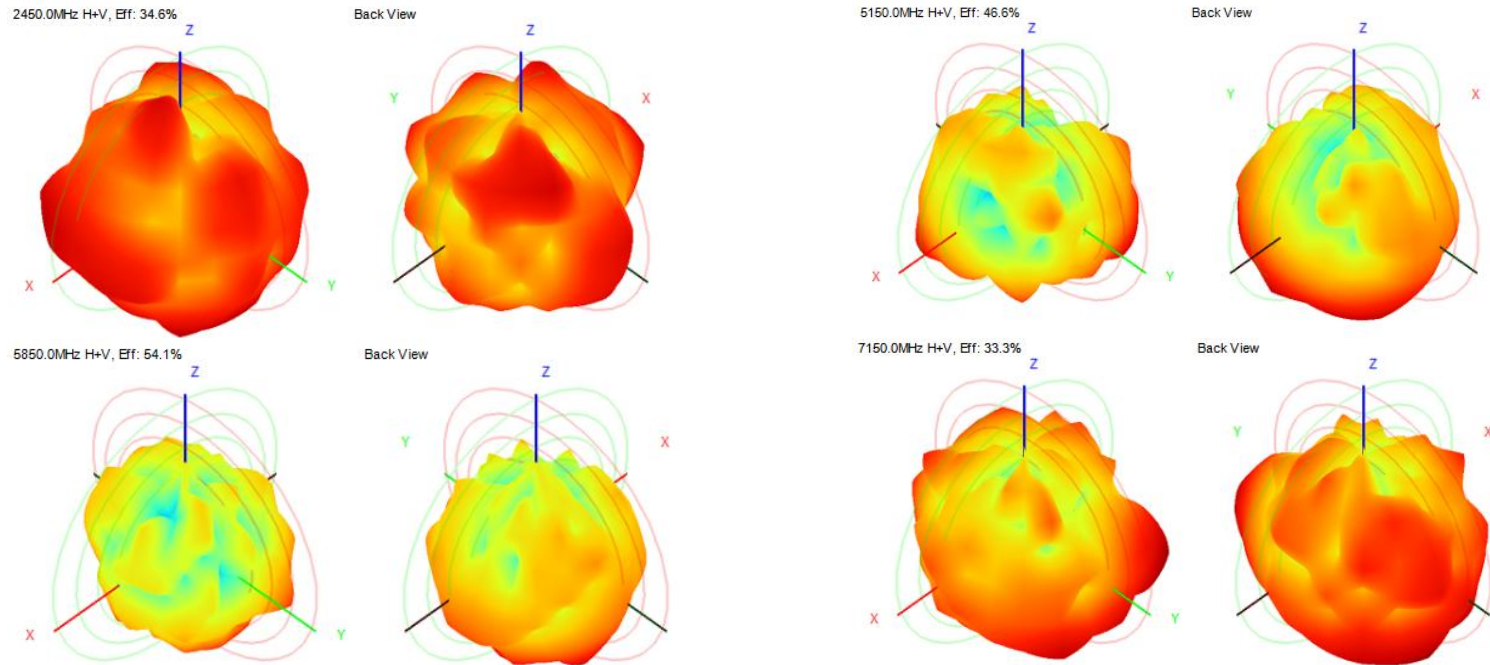
WIFI	CH	TRP(11M)	TIS(11M)	WIFI	CH	TRP(54M)	TIS(54M)
<b>802.11b</b>	1	10.35	-71.33	<b>802.11a</b>	36	8.82	-73.99
	6	10.02	-70.47		149	12.25	-73.89
	11	10.05	-70.51		165	12.03	-73.27

# 2. Test Result

## 2.4 WIFI Antenna Gain/Efficiency/3D DATA

### MAIN

Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5850.0	6150.0	7150.0
Efficiency (dBi)	-4.92	-4.61	-5.16	-3.31	-2.67	-2.80	-4.78
Gain (dBi)	0.95	1.52	2.63	2.78	2.94	2.81	1.69
Efficiency (%)	32.18	34.58	30.44	46.65	54.05	52.42	33.26



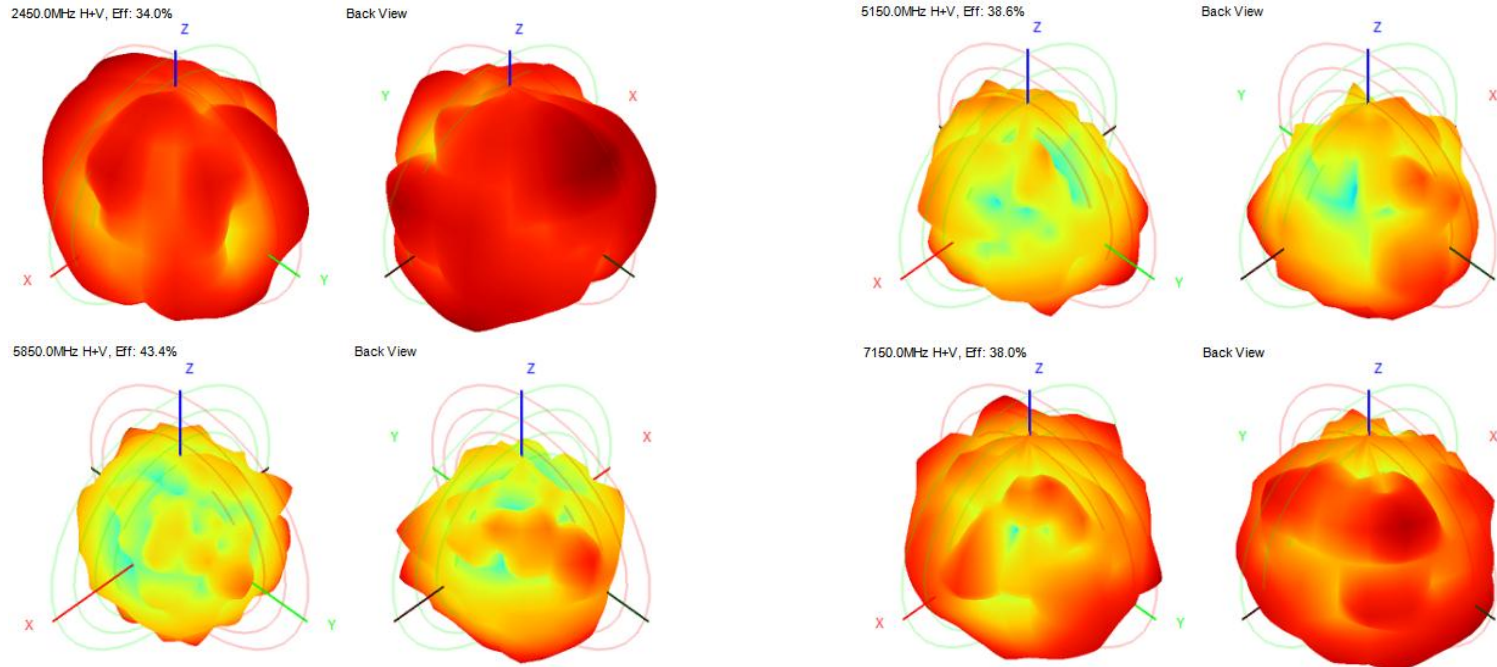


# 2. Test Result

## 2.4 WIFI Antenna Gain/Efficiency/3D DATA

**AUX**

Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5850.0	6150.0	7150.0
Efficiency (dBi)	-4.76	-4.69	-5.23	-4.14	-3.62	-3.60	-4.20
Gain (dBi)	1.39	-0.04	-0.37	2.36	2.80	2.93	1.62
Efficiency (%)	33.42	33.99	30.02	38.55	43.41	43.62	38.01



## 2. Test Result

### 2.5 WIFI Antenna Throughput

2.4G Upload	2.4G Download	5.8G Upload	5.8G Download
215M	239M	722M	756M

**Test Environment: Indoor 1M;**

## 2. Test Result

### 2.6 BT Throughput

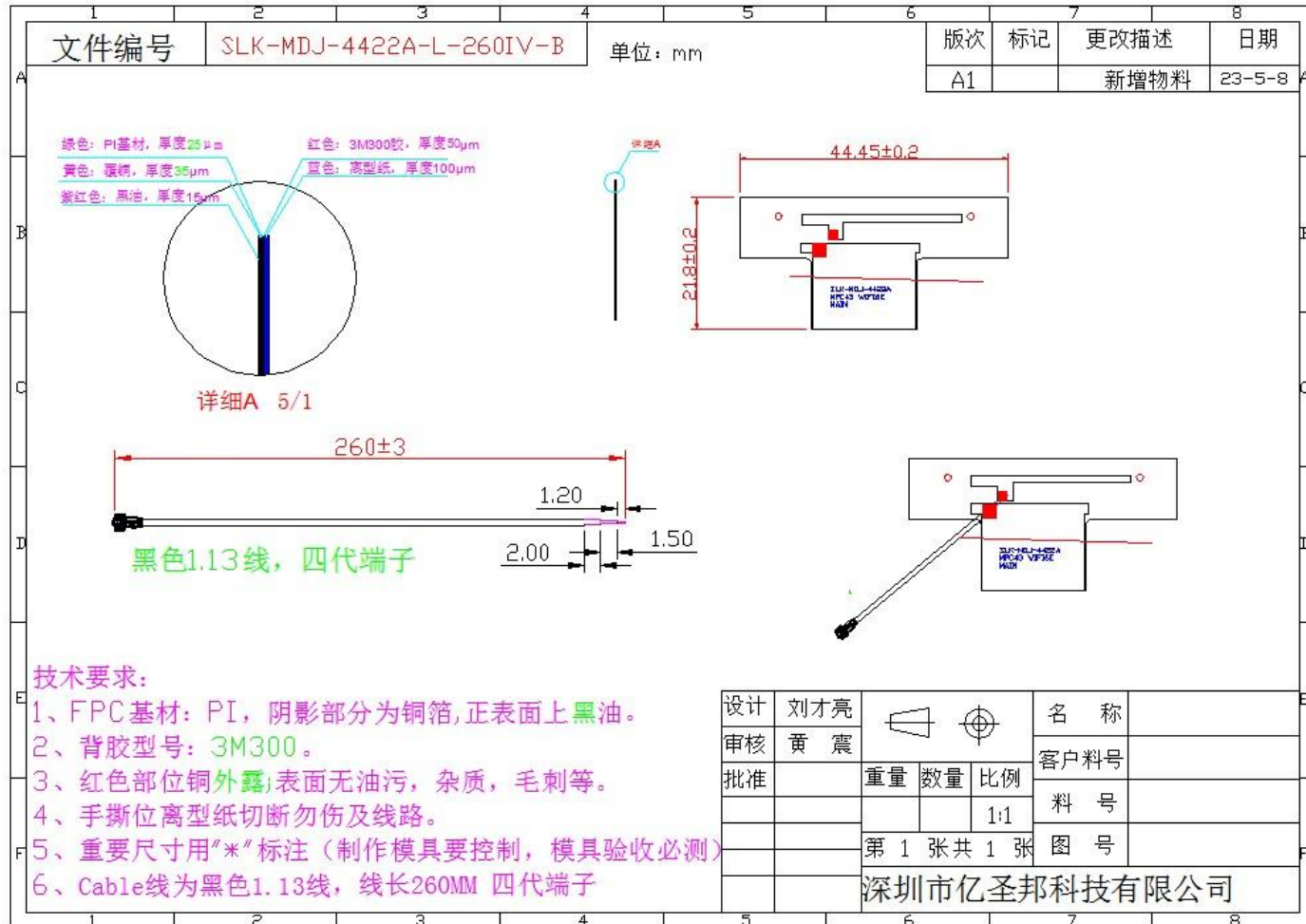
BT Upload	BT Download
1.3M	1.4M

**Test Environment: Indoor 1M;**

# 2. Test Result

## 2.7 Antenna Size Diagram

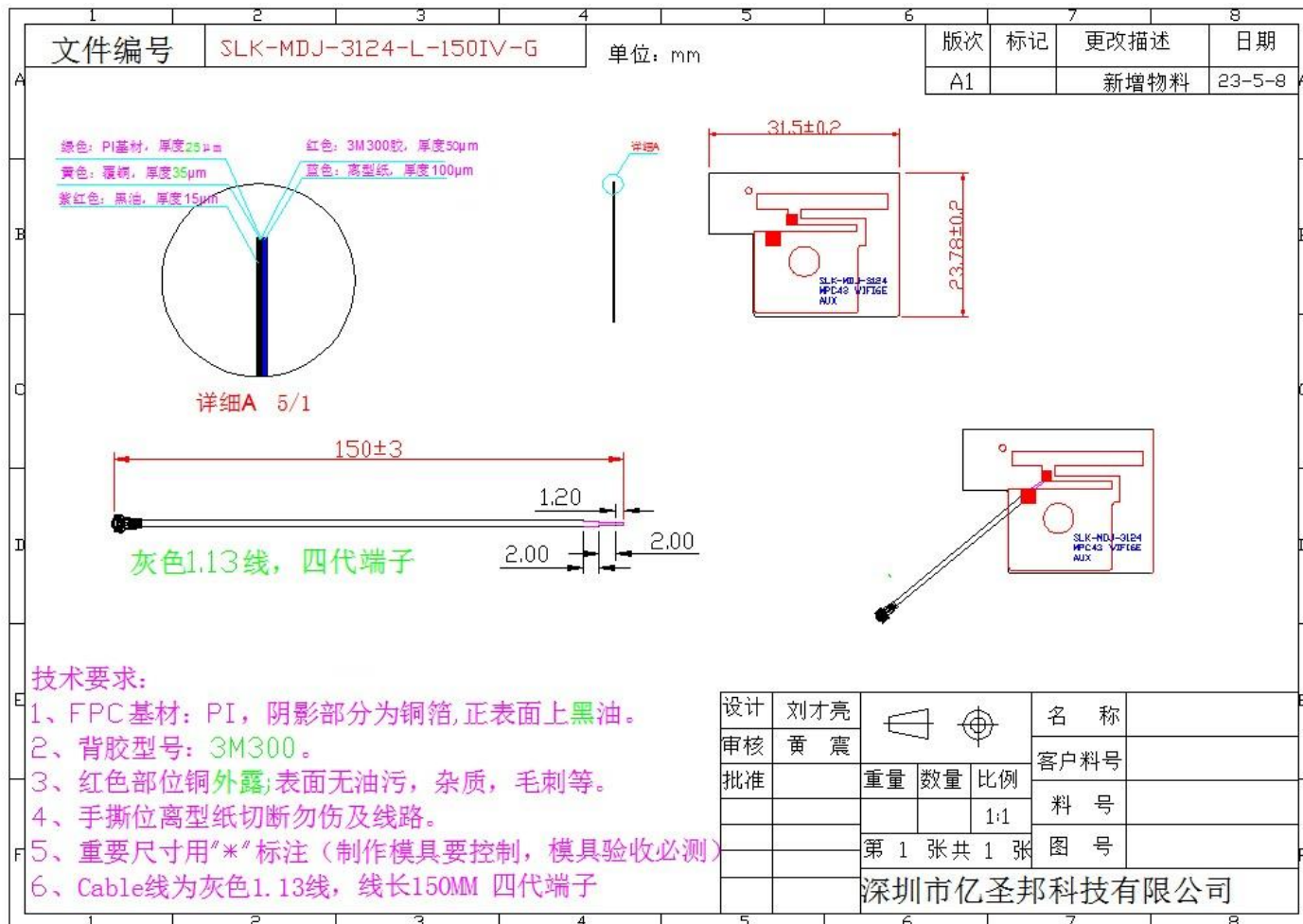
MAIN



# 2. Test Result

## 2.7 Antenna Size Diagram

AUX





## 3. Conclusions

Thank you