深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd
101, Building C, Shenzhen Qianwan Hard Technology Industrial Park, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, China

Antenna Specifications

Customer: 艾普达

Project: N1412P5YT

WIFI MAIN：SLK-APD-2516G1-L-300IV-B-DS

WIFI AUX ：SLK-APD-2516G2-R-200IV-G-DS

Product: WIFI Antenna—FPC

Report date: 2024.12.23

Prepared by : 范新竹

Checked by : Eason Huang

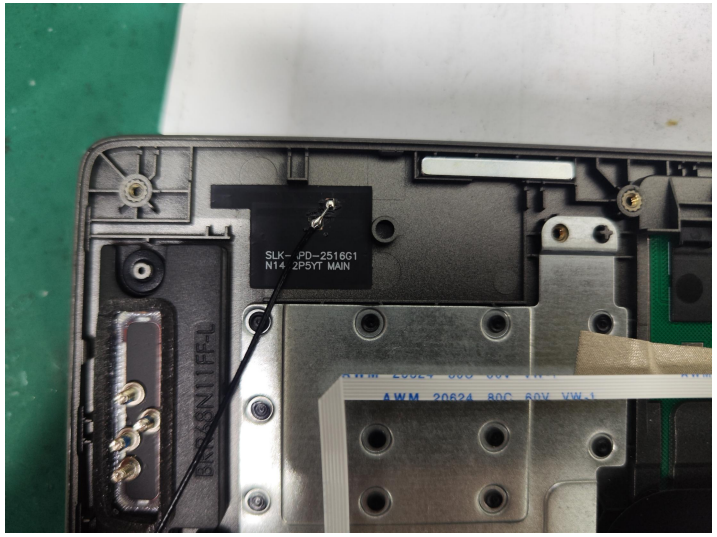
Approved by :

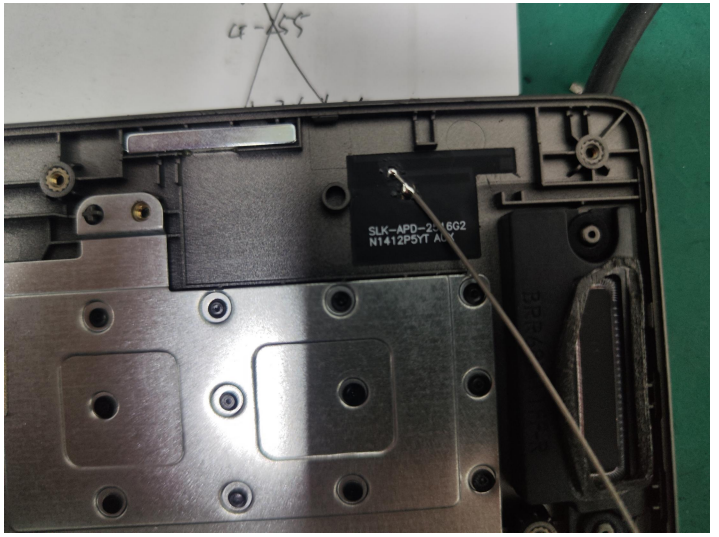
Purpose

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

Content

1. Product Overview

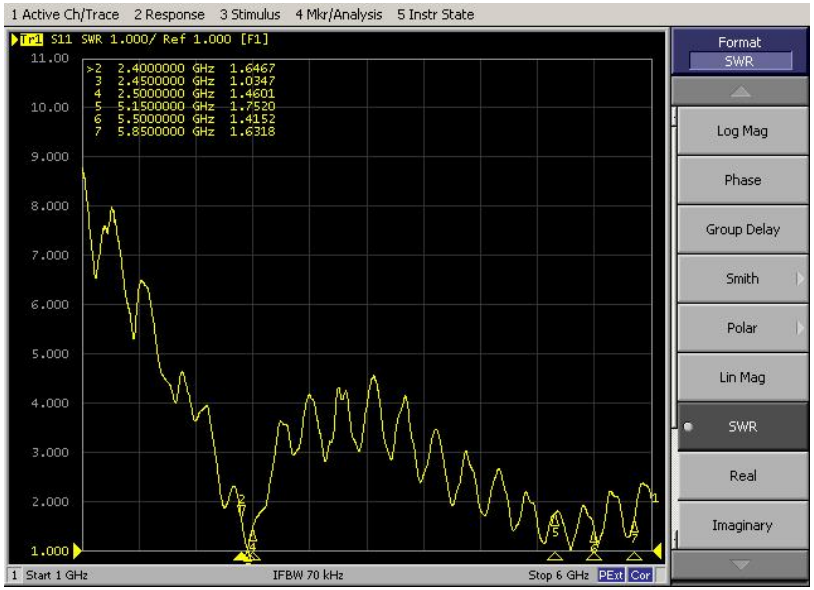


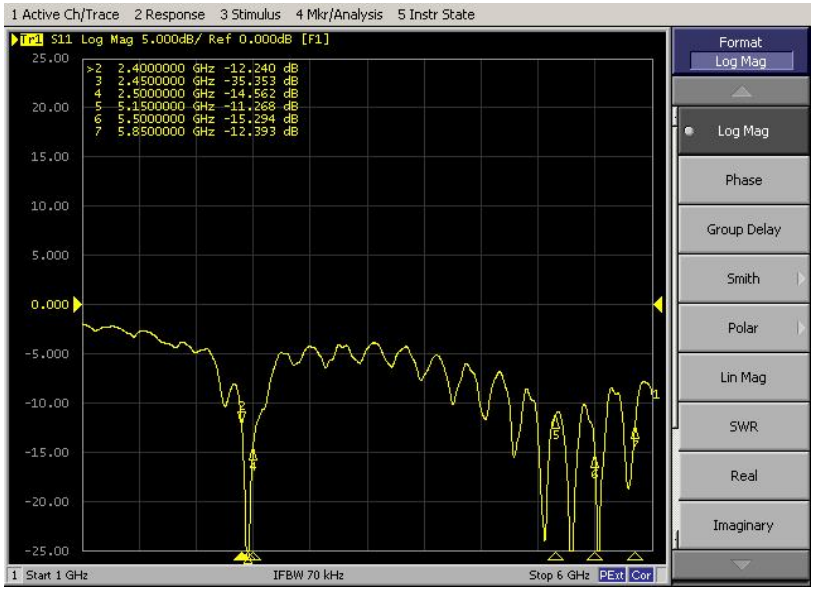


2. Test Result

2.1 VSWR/S11

MAIN

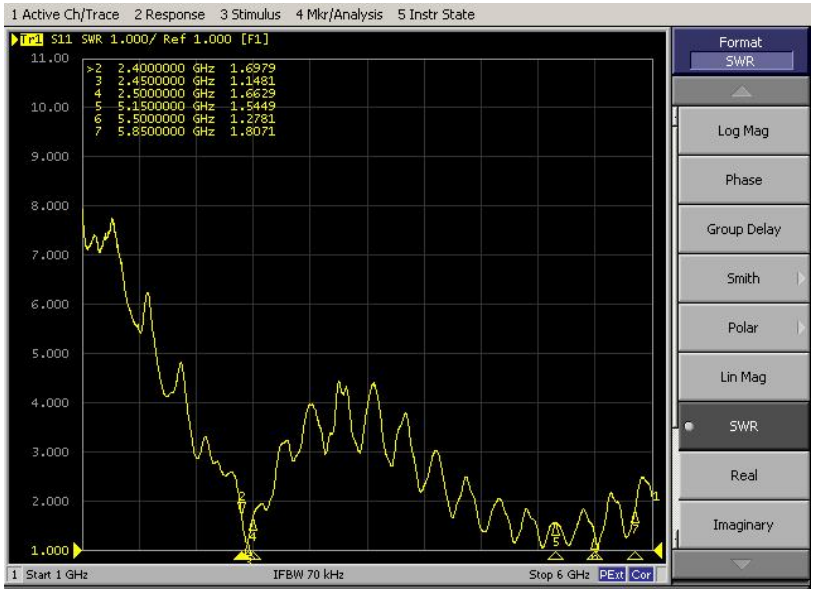


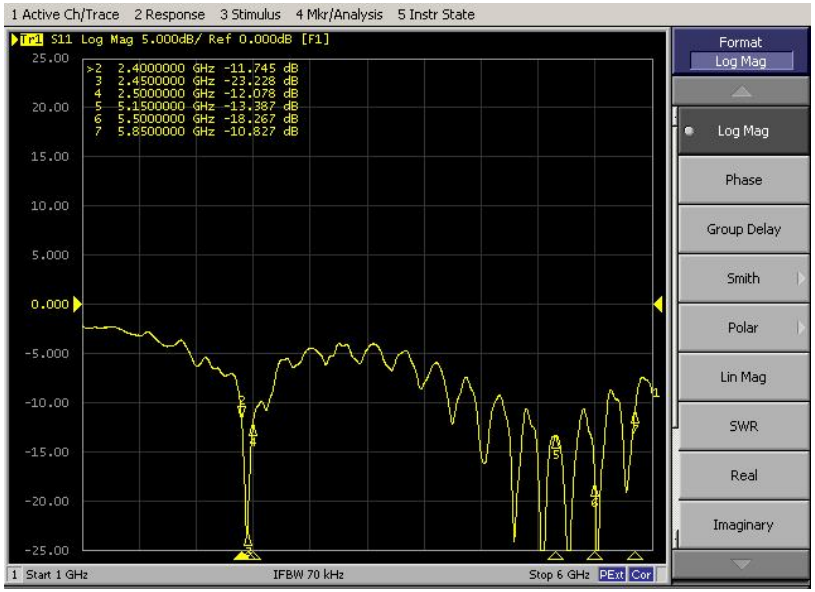


2. Test Result

2.1 VSWR/S11

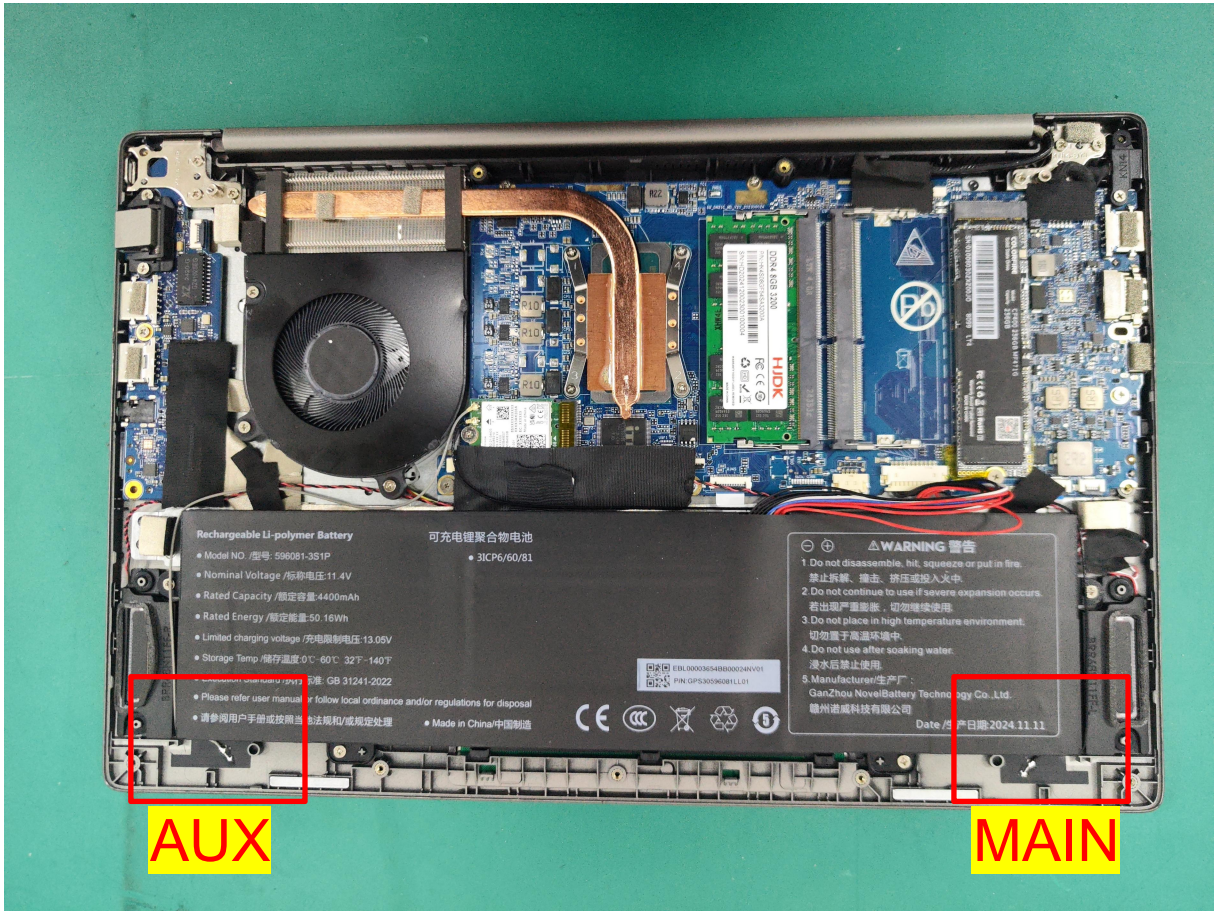
AUX





2. Test Result

2.2 Antenna Parameters

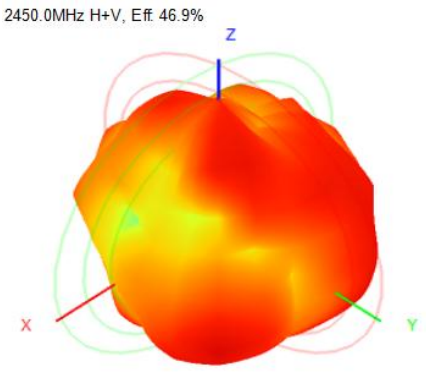


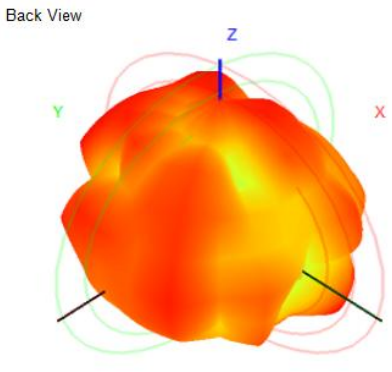
2. Test Result

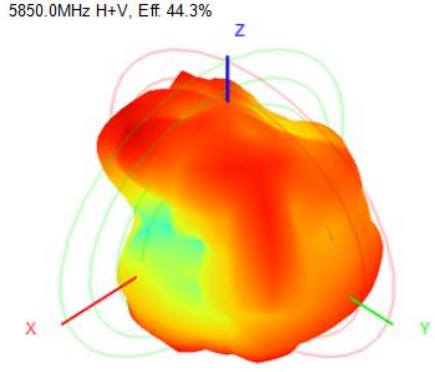
2.3 WIFI Antenna Gain/Efficiency/3D DATA

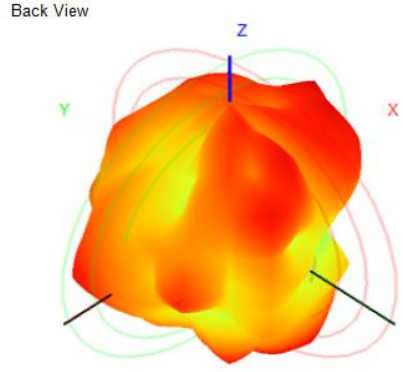
MAIN

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.60	-3.55	-3.44	-3.42	-3.33	-3.28	-3.24	-3.33	-3.19	-3.26	-3.36	-3.51	-3.37	-3.21	-3.83	-3.53
Gain (dBi)	2.23	2.30	2.17	2.50	2.28	2.61	2.42	2.15	2.41	2.35	2.11	1.46	2.24	2.79	2.29	2.76
Efficiency (%)	43.65	44.11	45.27	45.45	46.43	46.94	47.37	46.44	47.90	47.18	46.12	44.49	46.07	47.79	41.41	44.35







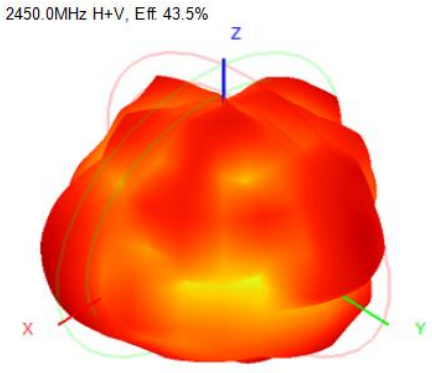


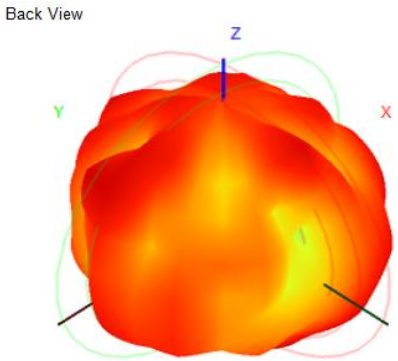
2. Test Result

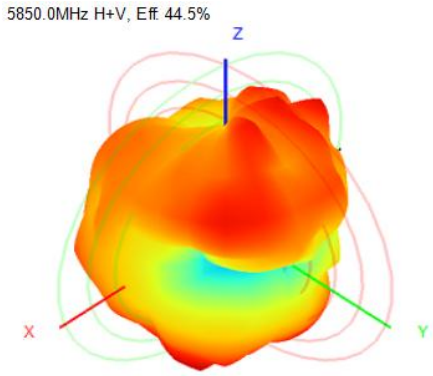
2.3 WIFI Antenna Gain/Efficiency/3D DATA

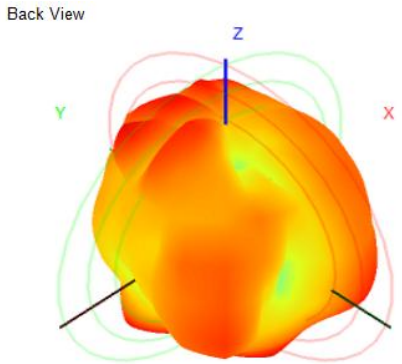
AUX

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.81	-3.75	-3.64	-3.47	-3.41	-3.61	-3.54	-3.63	-3.54	-3.62	-3.75	-3.70	-3.37	-3.40	-3.61	-3.51
Gain (dBi)	2.07	1.91	1.96	1.87	1.92	1.94	2.10	2.22	2.17	2.35	2.28	2.21	2.22	2.33	2.04	2.11
Efficiency (%)	41.56	42.16	43.16	44.96	45.50	43.53	44.19	43.25	44.17	43.41	42.09	42.61	46.07	45.75	43.56	44.55



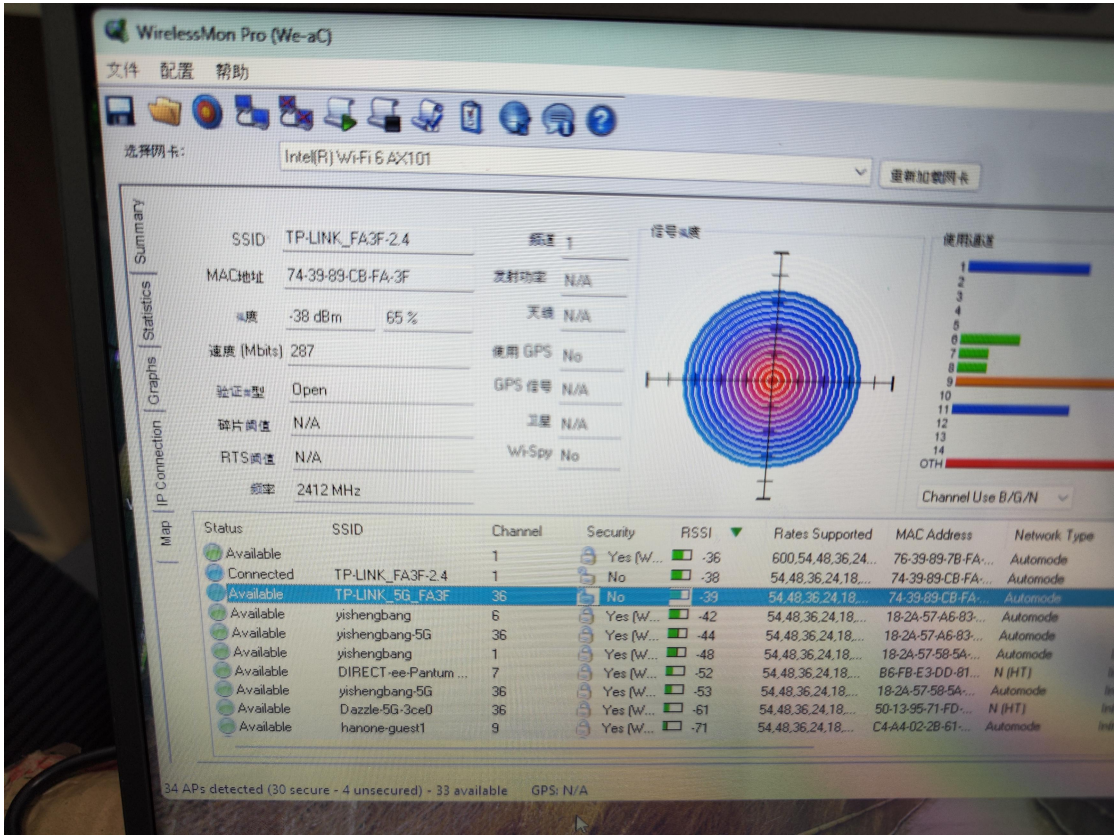






2. Test Result

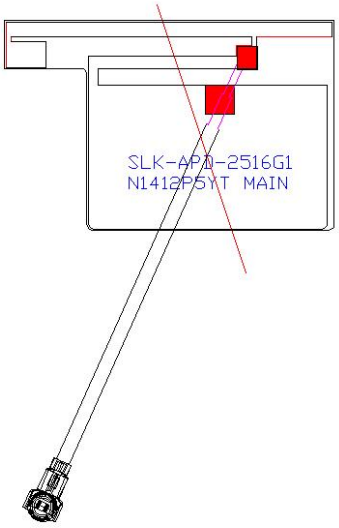
2.4 WIFI Antenna Signal Intensity



测试环境：室内无障碍环境下，距离路由器10M；2.4G-38dBm，5G-39dBm ；蓝牙10米无卡顿

WIFI MAIN

1. Explanation of Product number :



Product Code:
(1) Customer:艾普达
(2) Antenna Name:WIFI 天线（WIFI Antenna）
(3) Connector:0.81黑色低损线，总300mm，4代端子

2. Features

*Stable and reliable in performances
*Compact size
*RoHS compliance

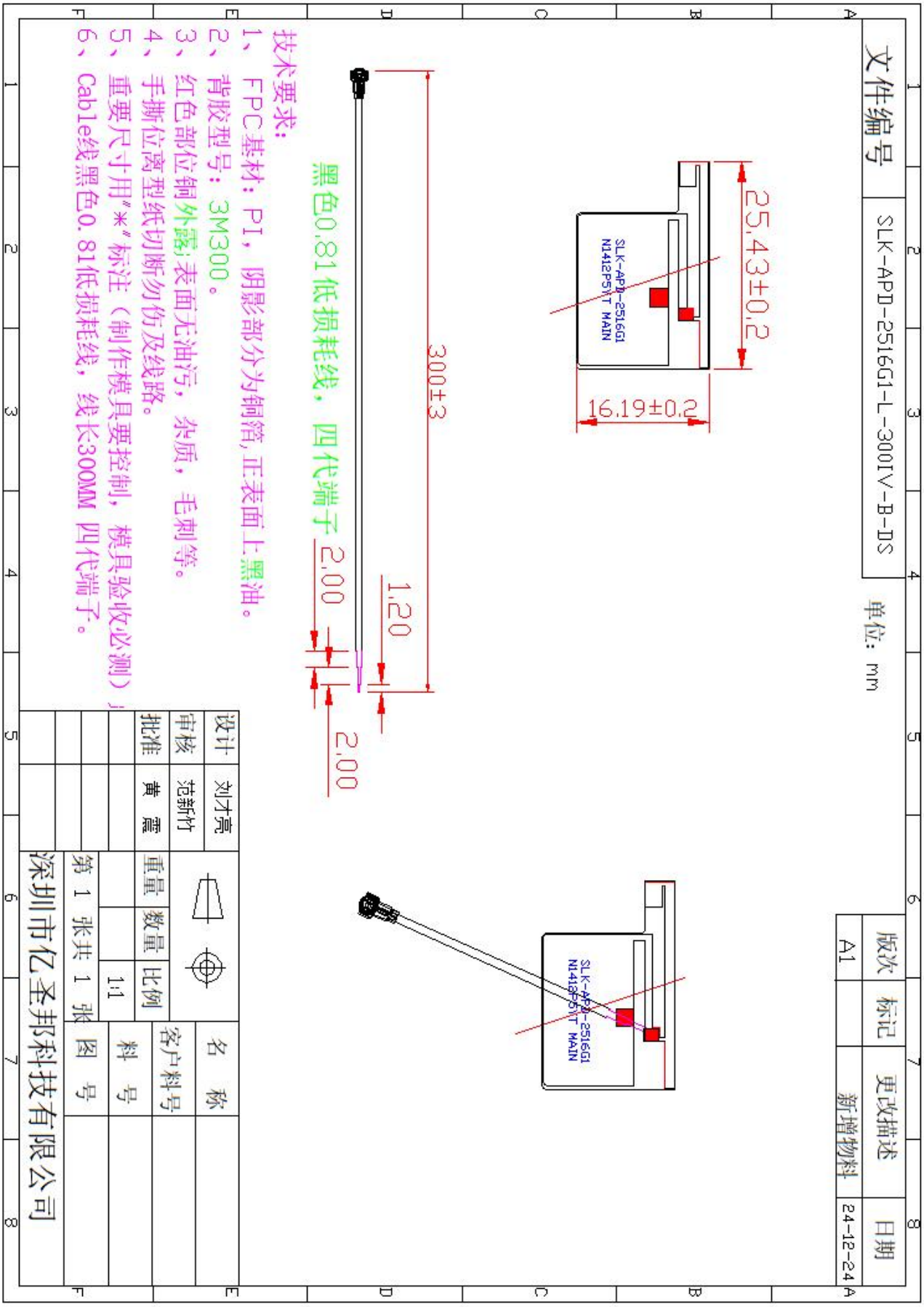
3. Applications

* IEEE802.11 (b/g/n/a)
* Hand-held devices when WIFI (802.11b/g/n/a) functions are needed

4. Description

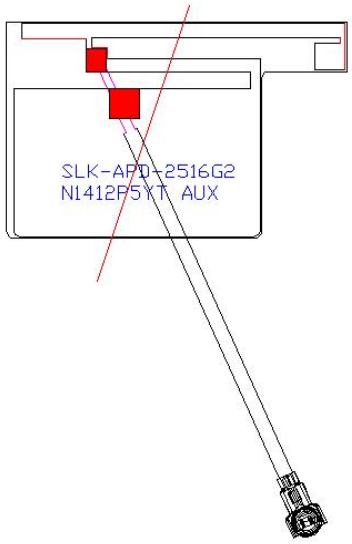
Holy bond's FPC antenna series are specially designed for WIFI (802.11b/g/n/a) applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

6. Antenna Dimensions (unit: mm)



WIFI AUX

1. Explanation of Product number :



Product Code:
(1) Customer:艾普达
(2) Antenna Name:WIFI 天线（WIFI Antenna）
(3) Connector:0.81灰色低损线，总长200mm，4代端子

2. Features

*Stable and reliable in performances
*Compact size
*RoHS compliance

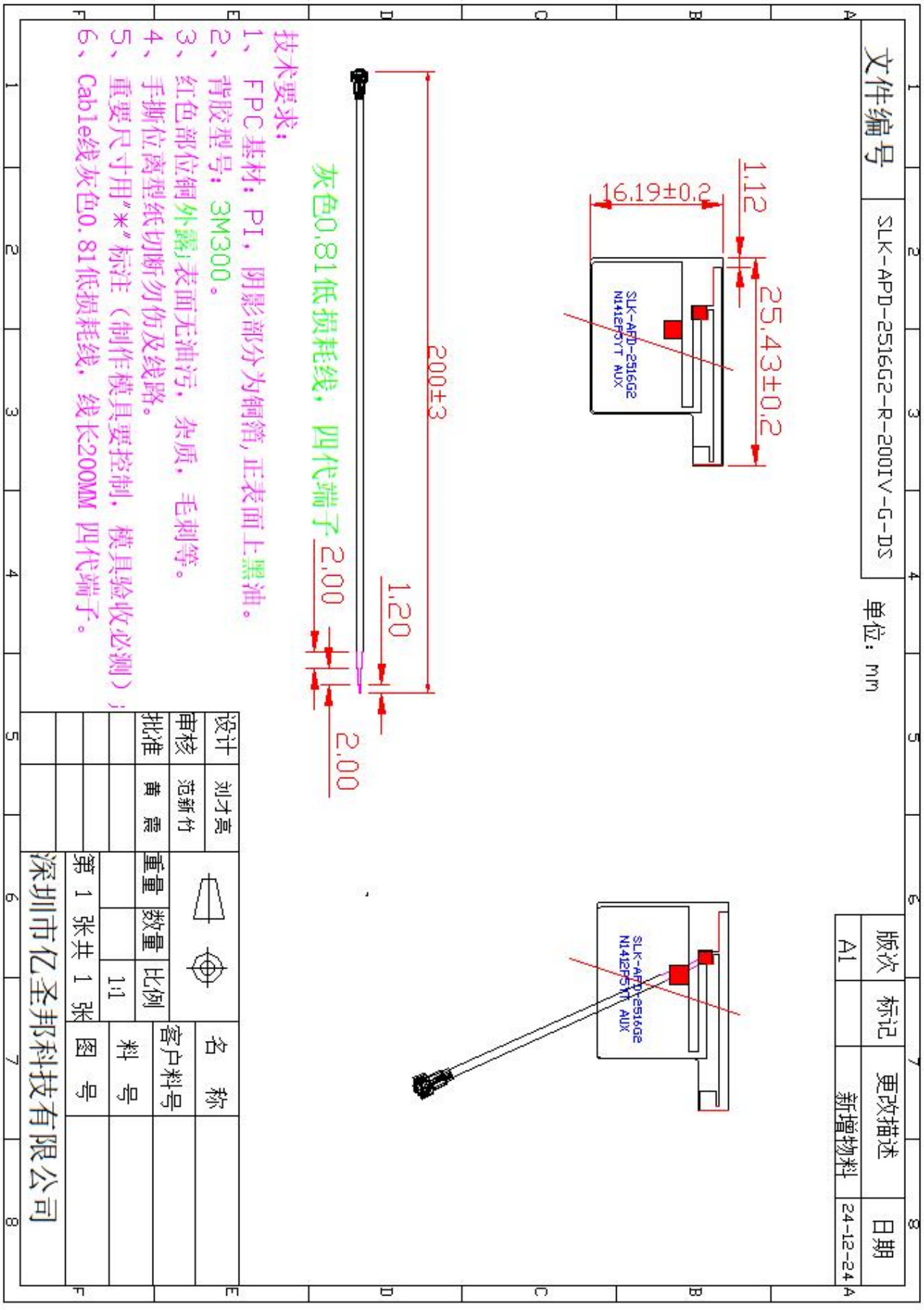
3. Applications

* IEEE802.11 (b/g/n/a)
* Hand-held devices when WIFI (802.11b/g/n/a) functions are needed

4. Description

Holy bond's FPC antenna series are specially designed for WIFI (802.11b/g/n/a) applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

6. Antenna Dimensions (unit: mm)



3. Conclusions

Thank you