

Antenna Test report

Model Name: TR-IR-NV100Infrared night vision

Date:

Shenzhen Xinlingke Technology Co., Ltd.

www.kpantenna.com

诚信 · 感恩

01.Project Introduction and Photoes-Project Introduction



RF Engineer	Engineer Kong	Email	2532625702@qq.com
		Mobile	18477016343
Antenna Overview			
Status of Sample machine	Whole machine	Project Name	TR-IR-NV100Infrared night vision
Antenna Type	FPC	Structure mode	FPC+1st Generation coaxial line
Main Antenna	2.4GWIFI		
Other Antenna			

02.Introduction of Company and Test Environment- Company



Company Experience

Shenzhen Xinlingke Technology Co., Ltd. owns 12 years of experience in R & D and production of various mobile communication terminals. Company has established a joint RF device laboratory with universities. Company is proficient in antennas of 5G NSA and SA, ultra thin mobile phones, NB IOT / EMTC, and base station.



Product Range

The products of company cover many fields, such as smart home, Internet of vehicles, smart wear, mobile phones, pad, base station etc.



Core Task

Company has been committed to improving our long-term competitiveness by providing whole RF solution, insisted on taking customer demand as the first place.

02.Introduction of Company and Test Environment-Test Environment



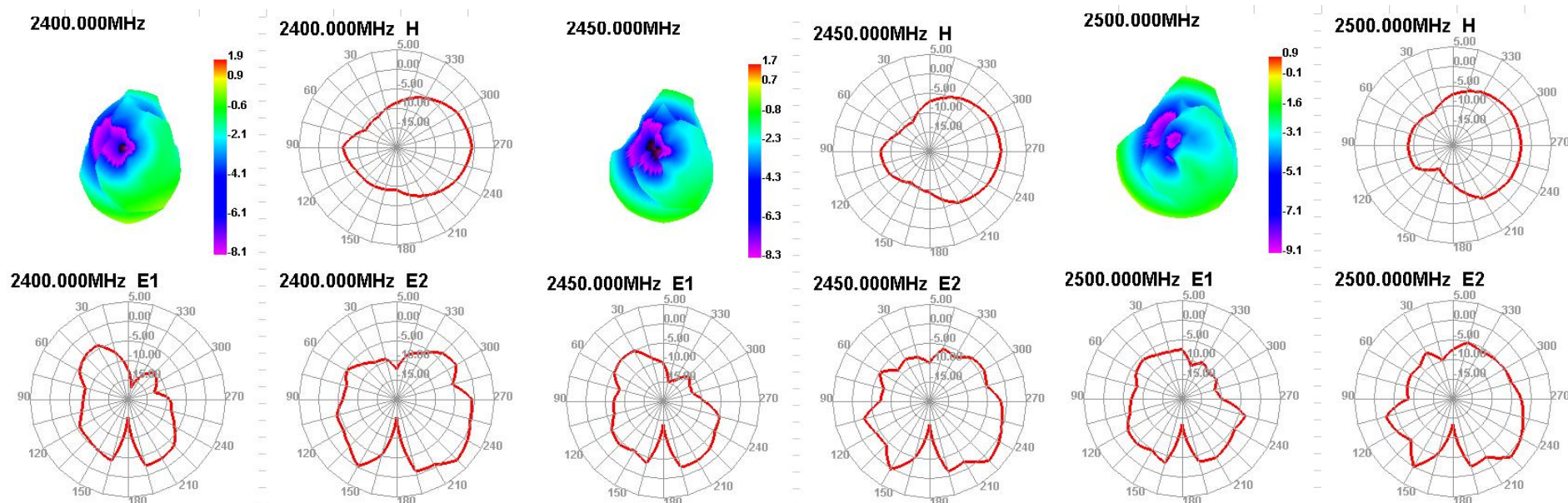
The company owns several OTA darkrooms whose frequency bands covers from 400mhz to 8.5ghz.

- Providing OTA test for whole machine which include but not be limited to 5G NSA, SA(trp/tis), WiFi active test (supporting 11b/11g/11n/11ax mode), bluetooth/GPS active test
- Providing antenna gain and efficiency
- Providing 2D pattern / Apple chart analysis
- Providing upper and lower hemisphere efficiency
- Providing mutual interference correlation coefficient test items.

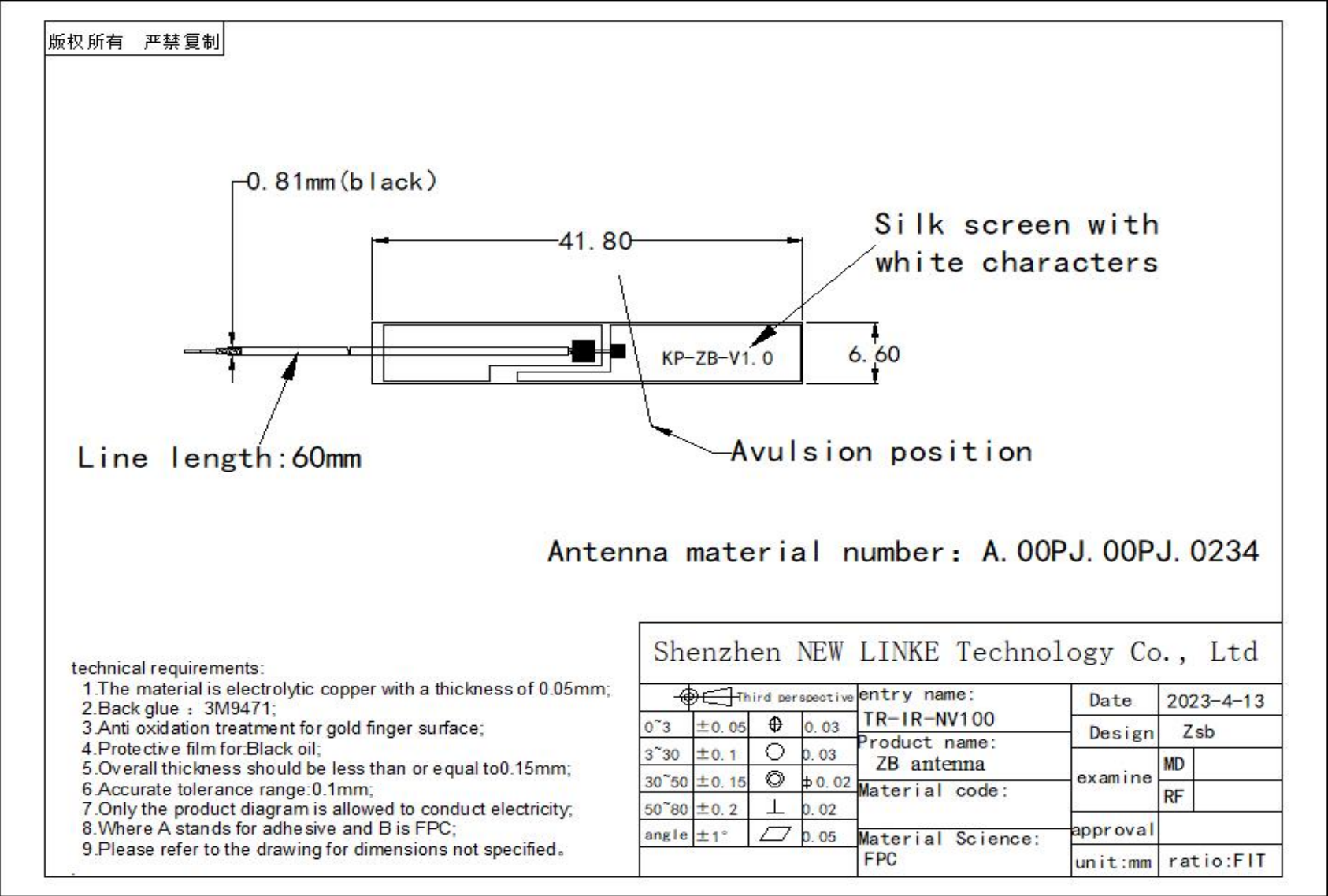
03.Data of WIFI Antenna-Passive Efficiency Data of WIFI of 2.4G WIFI



Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	35.44	1.89
2410	38.54	1.76
2420	36.54	1.64
2430	36.69	1.88
2440	38.43	1.75
2450	36.23	1.69
2460	35.1	1.52
2470	34.46	1.3
2480	33.89	1.15
2490	34.53	1.08
2500	33.74	0.87



04. Antenna structure



THANKS!

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