

SHENZHEN XIN LINGKE TECHNOLOGY CO.,LTD

SHENZHEN CITY LONGGANG DISTRICT PINGHU STREET HEHUA COMMUNITY, HENGSHUN SCIENCE PARK BUILDING B
B303, 37 TONGFU ROAD

SPECIFICATION FOR APPROVAL

Customer:zhongbai

Description: N100 II

P/N:		SENDING DATE	2024.08.06
SUPPLIERS P/N		APPROVED NO.	
Customer hardware		Client project	N100 II
customer structure		Customer quality	
RF Engineer		Structural engineer	

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Project: N100 II		Written by: Zhang_hai dong	N100 II -antenna Specification for Approval
Date:: 2024.08.06			
Revision	V1.0	Supervised by: LI peng	
Mould			
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1 Summary

This report describes the characteristics of antenna for the zhongbai by Shenzhen xin lingke Technology Co., Ltd. The phablet model is N100 II and the range of frequency is frequency/2.4G+5G WIFI+BT , The Antenna gain:2.4G:0.8dbi ,5G:1.1dbi.The antenna model is PIFA and located inside the handset.

1.1 Match circuit

No change.

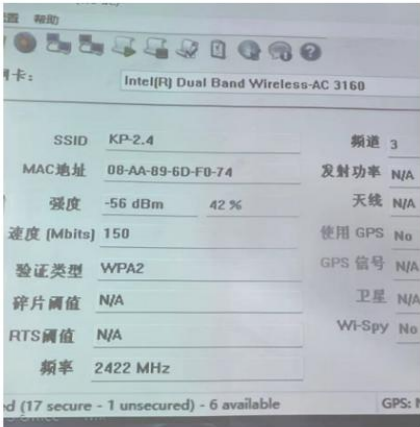
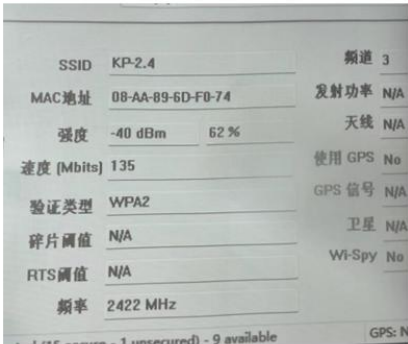
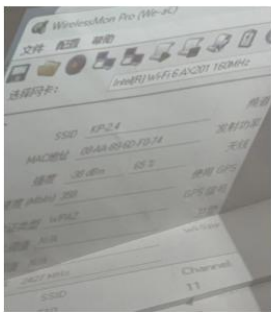
2 Configuring settings

TX Power and RX Sensitivity The data of TX Power and Rx Sensitivity is 3D result measured in microwave eanechoic chamber by the Anritsu8820c.

TRP、TIS

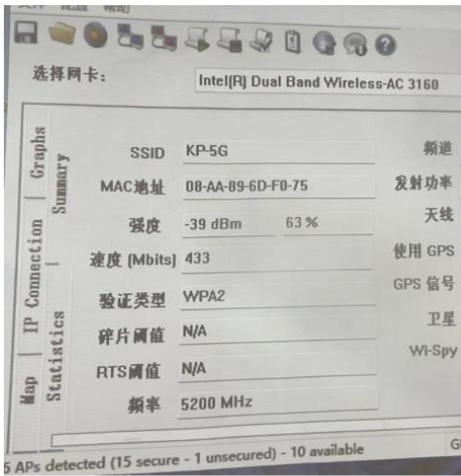
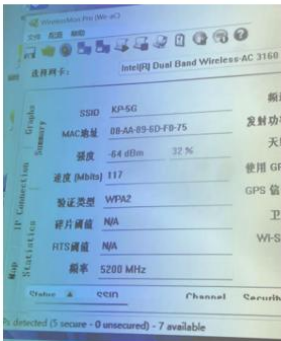
2.4GWIFI

WirelessMon信号 (dbm)	
1米 (dbm)	-38
5米 (dbm)	-40
10米隔墙 (dbm)	-56



5GWIFI

WirelessMon信号 (dbm)	
1米 (dbm)	-39
5米 (dbm)	-47
10米隔墙 (dbm)	-64



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2.4GWIFI

SPEEDTEST 测速		
1米	下载	45.08mb
	上传	34.12mb
5米	下载	19.89mb
	上传	37.07mb
10米隔墙	下载	24.15mb
	上传	26.45mb



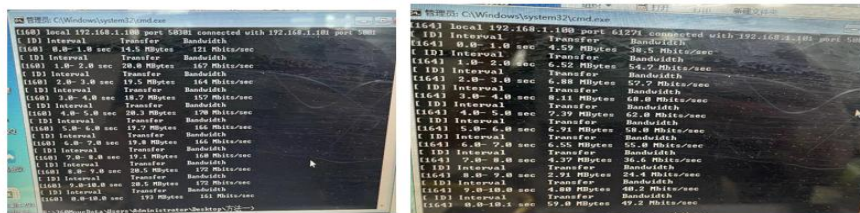
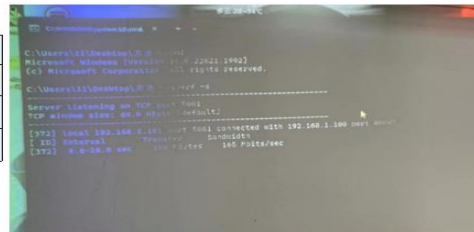
5GWiFi

SPEEDTEST 测速		
1米	下载	101.72mb
	上传	67.69mb
5米	下载	121.17mb
	上传	64.73mb
10米隔墙	下载	49.57mb
	上传	32.43mb



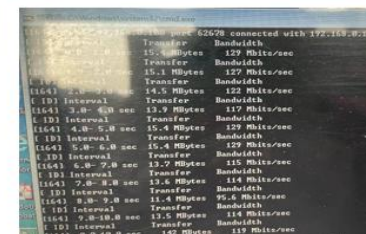
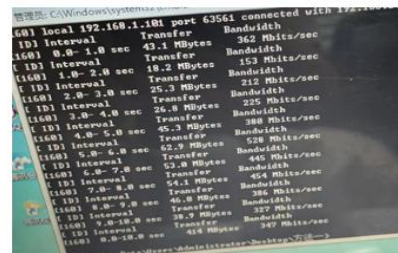
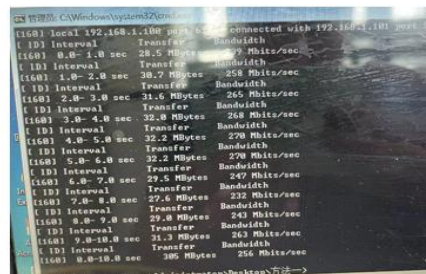
2.4GWIFI

吞吐量测试	
1米(mb/s)	165mb/s
5米(mb/s)	161 mb/s
10米隔墙(mb/s)	49.2mb/s



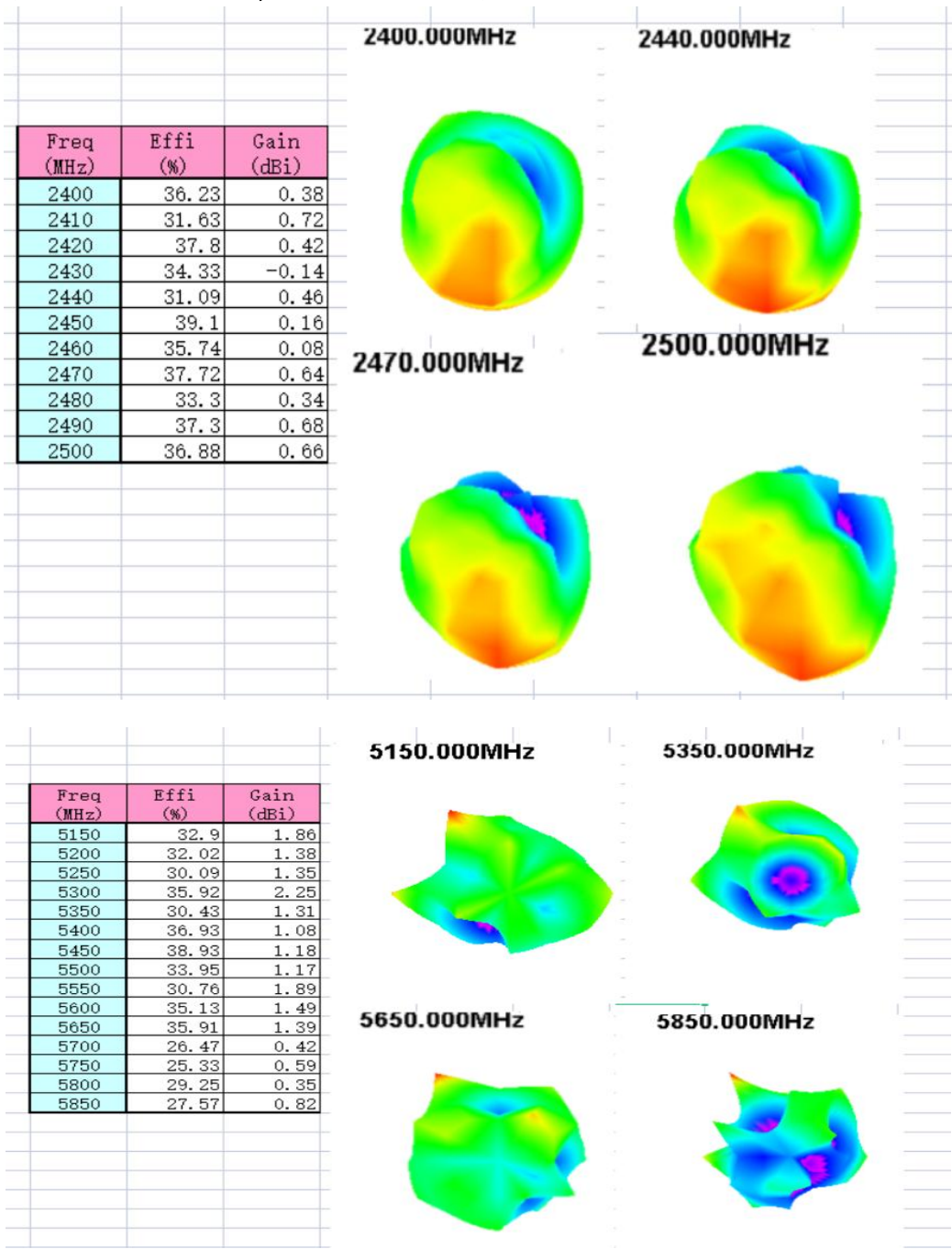
5GWiFi

吞吐量测试	
1米(mb/s)	347 mb/s
5米(mb/s)	256mb/s
10米隔墙(mb/s)	119mb/s



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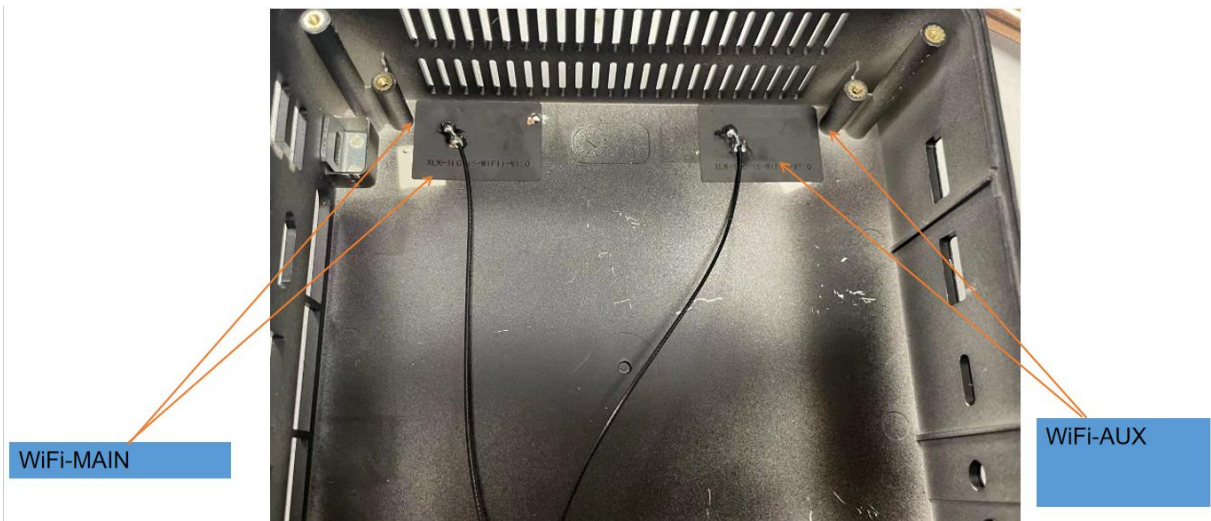
3. Gain(2.4G 0.72dbi, 5G 2.25dbi)



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4. Environmental treatment

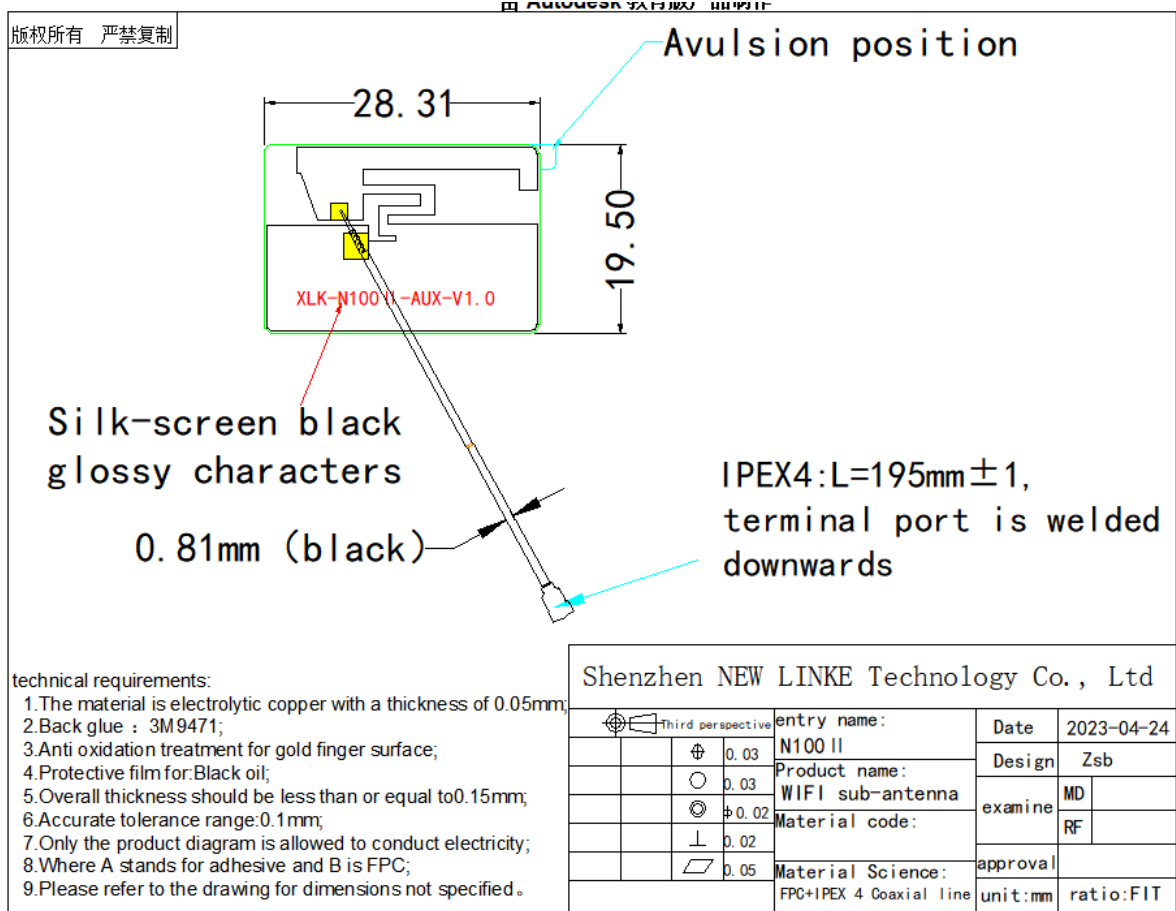
Antenna position



5. Assembling picture

WIFI/BT

antenna



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6. Antenna tested Report with all dimension
Salt Fog Test Report

Handset Model	N100 II			Tested Quantity	5PCS		
Standard	GB2423. 18			Product material	FPC		
Tested Items	Required Standard	Actual value	Result	Tested Items	Required Standard	Actual value	Result
Tester Model	KD-60	KD-60	OK	Tested Period	24H	24H	OK
Salt Fog Test Type	NSS Neutral NSS	NSS Neutral NSS	OK	Salt Fog Box Temperature	35° C	35℃	OK
Salt PH	6.5-7.2	6.8	OK	amount of precipitation of Salt fog (H. 80C)	1-2ml	1.8ml	OK
Fog spit type	Continued fog	Continued fog	OK	Material	FPC	FPC	OK
Volume of salt	5%/NaCL	5%/NaCL	OK	Compressed air pressure	1±0.1KG/CM2	1	OK
saturated temperature	47° C	47℃	OK	Sample location angel	90°	90°	OK
Observed Period	Observed phenomenon						
4H	NA						
12H	NA						
24H	NA						
Judged Standard: Judged by the method of GB5944-86, over Level 9 is qualified.							
Final Tested Result	Qualified ✓			Unqualified			

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Tested by	Benyuan He	Supervised by	Aibing Wang	Approved by	
Remark: normal salt fog tested methods is NSS,AASS and CASS.					

7. Shipment Mode

Material Type	Package Mode	
FPC	1、 full page package for shipment 2、 Release paper+ PET plastics bags packed 3、 100sheets/bag	

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