

Acknowledgment Letter

SPECIFICATION FOR APPROVAL

Customer Name	Shenzhen Qi Yin Technology Co. , Ltd.		
Customer Project Name	K06	Project Name	K06
Customer P/N		SDC P/N	BT4584B-B45R-C
Band	2. 4G		
Version	A0		
Designer Information			
RF Engineer	Fu Xuerong	R&D Diretor	Xia Chenglei
ME Engineer	Huang Zongbao		

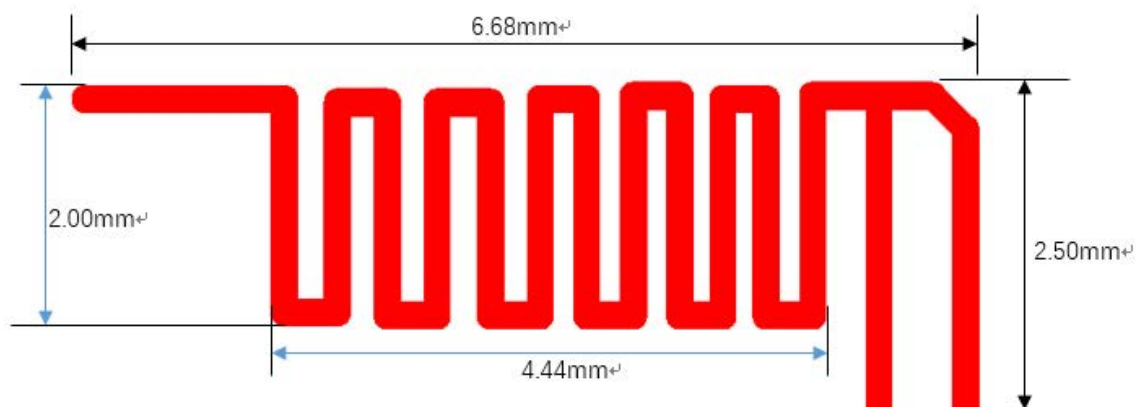
Approval				Customer Approval	
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	Huang Zongbao	Fu Xuerong	Xia Chenglei		
Date	2024. 5. 26	2024. 5. 26	2024. 5. 26		

Change Log				
Version	Change Description	Person in Charge	Approval By	Date

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Drawing or Product Image



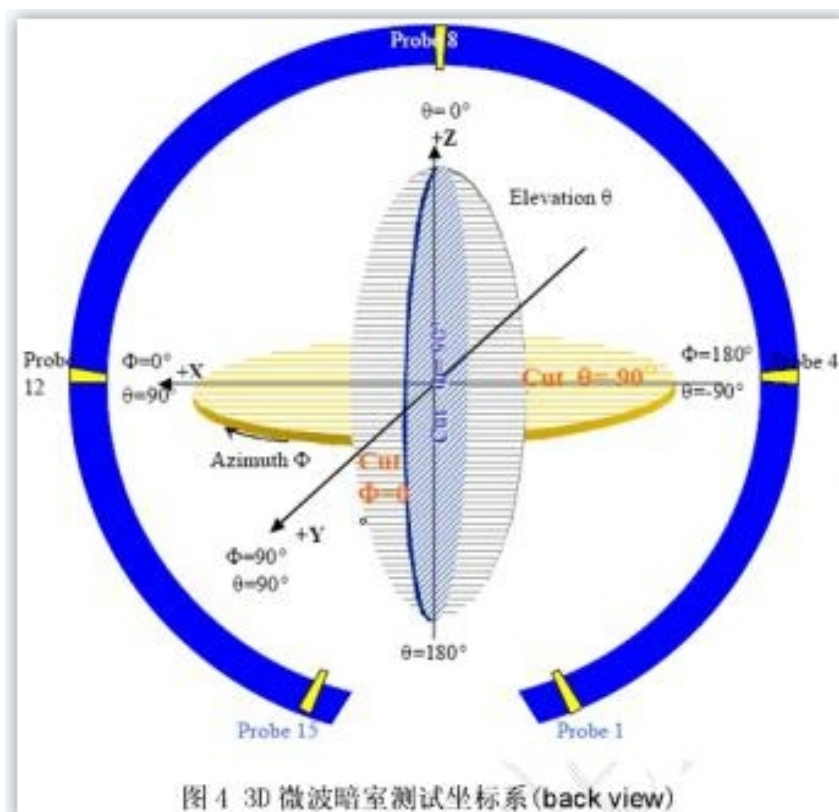
Sample Dimensions Test Report

Test Date	2023. 5. 26	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	18.8±0.2mm	18.8	18.9	18.8	Pass
②width	14.52±0.2mm	14.52	14.62	14.52	Pass
③thickness	0.1±0.03mm	0.1	0.1	0.1	Pass
④Line length	45±2mm	45	46	46	Pass
⑤					
⑥					
⑦					
Conclusion					PASS
Inspector & Date	Xu Yanfang 2023. 5. 26		Approval & Date		

RF Performance Test Report

Antenna Test Equipment Introduction

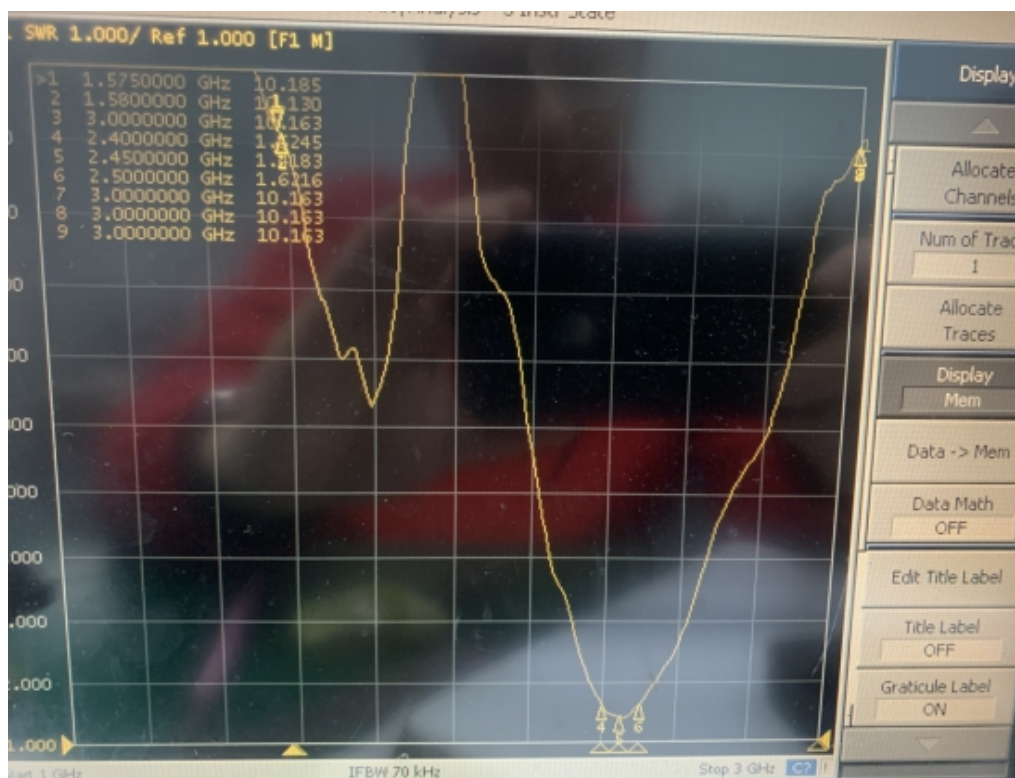
Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the guangping 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

1. **S11 Parameter-VSWR**

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

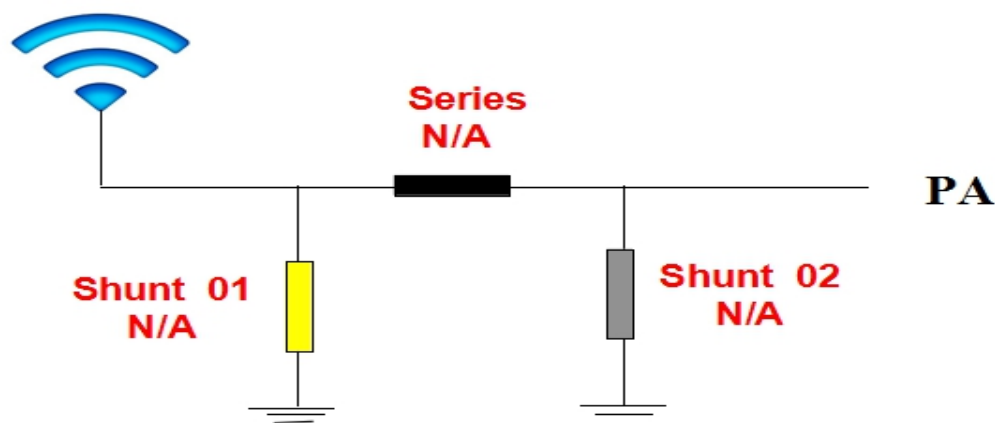
S11 Parameter-VSWR

frequency (MHZ)	2400	2450	2500
standing-wave ratio	1.62	1.41	1.62



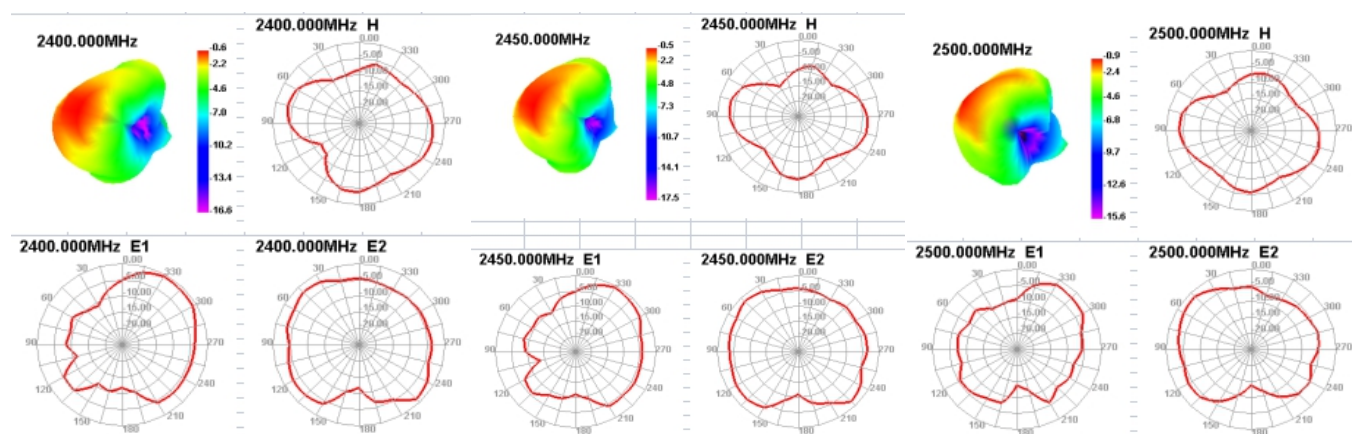
2. Antenna Matching Network

Antenna



3. Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	31.74	-0.59
2450	29.65	-0.51
2500	28.15	-0.93



Reliability Test Report

Test Date	2023. 5. 26	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 ☐ 24H ☒ 48H	Salt spray testing machine	OK	OK	OK	Pass
Connector riveting and pulling force	1. 13 Wire diameter ≥ 10N 0. 81 Wire diameter ≥ 8N RG174 ≥ 60N RG178 ≥ 50N	Push-pull force gauge	≥ 10N	≥ 10N	≥ 10N	Pass
Conclusion						Pass
Inspector & Date	Xu Yanfang 2023. 5. 26		Approval & Date			