

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	Min Dong
Project	R1
Project NO	XBY230342

Shenzhen Xiangboyi Technology Co. Ltd

Date: 2024/12/11

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuanggu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Customer confirmation			
Engineer	PM	Quality	Approval

Supplier confirmation			
ME	RF	Examine	Approval

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Catalogue

1	Test System and Equipment.....	4
2	Product Description	5
3	Device Description.....	Located in Annex Antenna
4	Matching Circuits.....	7
5	Test Tata	8
6	EngineeringDrawing	11
7	Physical Assembly Picture.....	Located in Annex Antenna

Shenzhen Xiangboyi Technology Co. Ltd

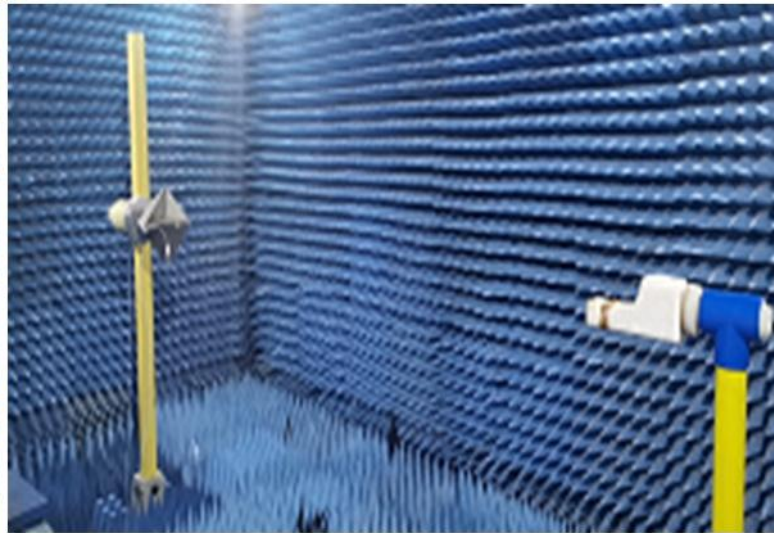
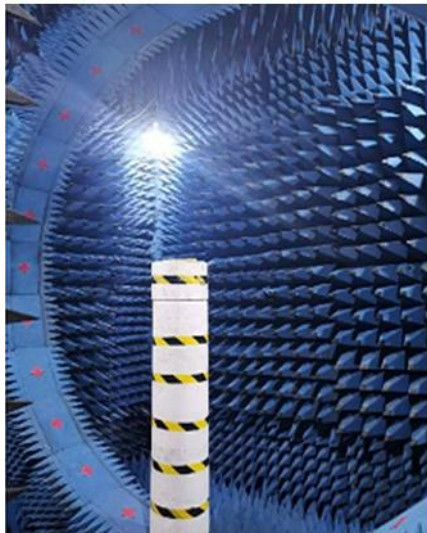
Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

1 Test System and Equipment

	Test items	equipment
1: S parameter	1. Return loss 2. VSWR	Network analyzer: A338/A333/HP8753D
2: Active test	1. TRP 2. TIS	Comprehensive test instrument: Agilent 8960/ CMW500
3: Radiation mode and gain	1. Radiation mode 2. Gain	1. Shielding room: 7x4x3 m (ETS-3D) 2. Network analyzer: HP 8753D



Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

2 Product Description

Technical requirements	Technical index	Remarks
Band	WIFI:2.4G BT	
Range Of Frequency	2400-2500Mhz	
VSWR	<2.0	Center Frequency
Impedance	50 Ω	
Polarization	Linear polarization	
operating temperature	-32℃ / +55℃	
storage temperature	-55℃ / +85℃	
Salt Fog	24h(24h alternating wet & dry)	
RoHS Compliant	yes	

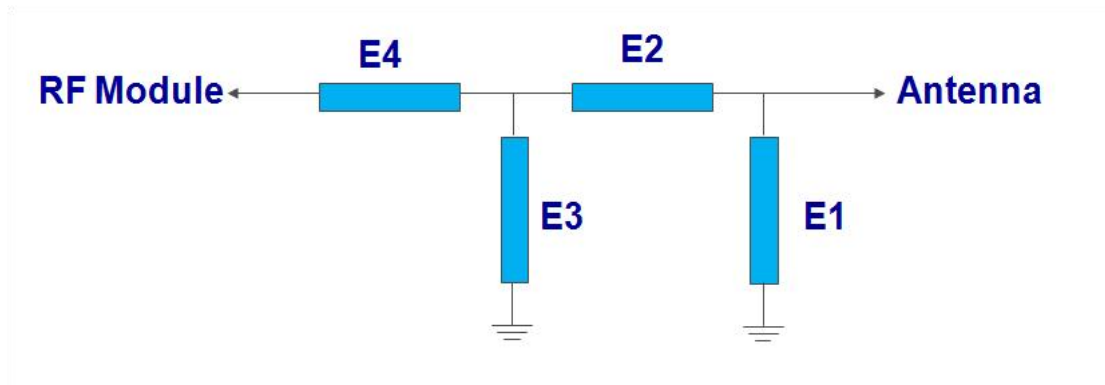
Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

4 Matching Circuits



Element	Value	Vender
E1(0402)	NA	
E2(0402)	0Ω	
E3(0402)	NA	
E4(0402)	0Ω	

Original match unchanged.

Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

5 Test Data

WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH7	CH13	CH1	CH7	CH13
TRP	14.28	14.26	14.7	12.14	11.98	12.44
TIS			-83.77			-72.07

WIFI BAND	802.11n : MCS7 (2.4G)			BT		
Channel	CH1	CH7	CH13	CH0	CH39	CH78
TRP	10.85	11.03	11.03	3.97	5.15	5.44
TIS			-72.78			-82.17

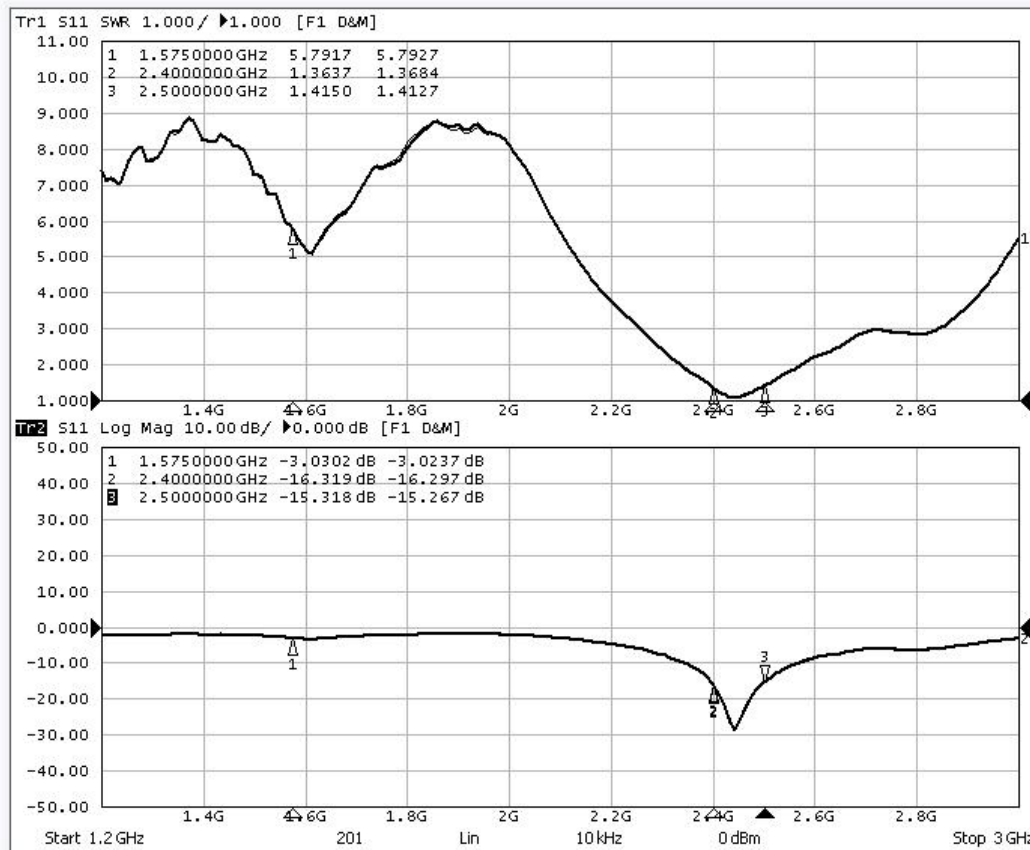
Freq (MHz)	Effi (%)	Gain (dBi)
2400	37.29	-0.74
2410	29.09	-1.58
2420	34.25	-0.4
2430	28.66	-0.92
2440	36.4	0.65
2450	33.71	0.42
2460	35.11	0.71
2470	31.27	0.08
2480	37.56	1.03
2490	32.64	0.1
2500	35.56	0.19

Shenzhen Xiangboyi Technology Co. Ltd

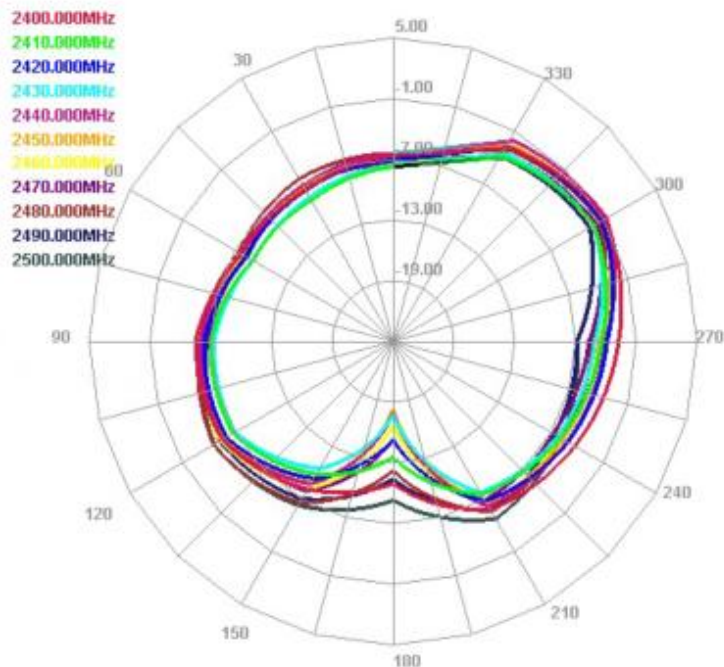
Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.



Horizontal



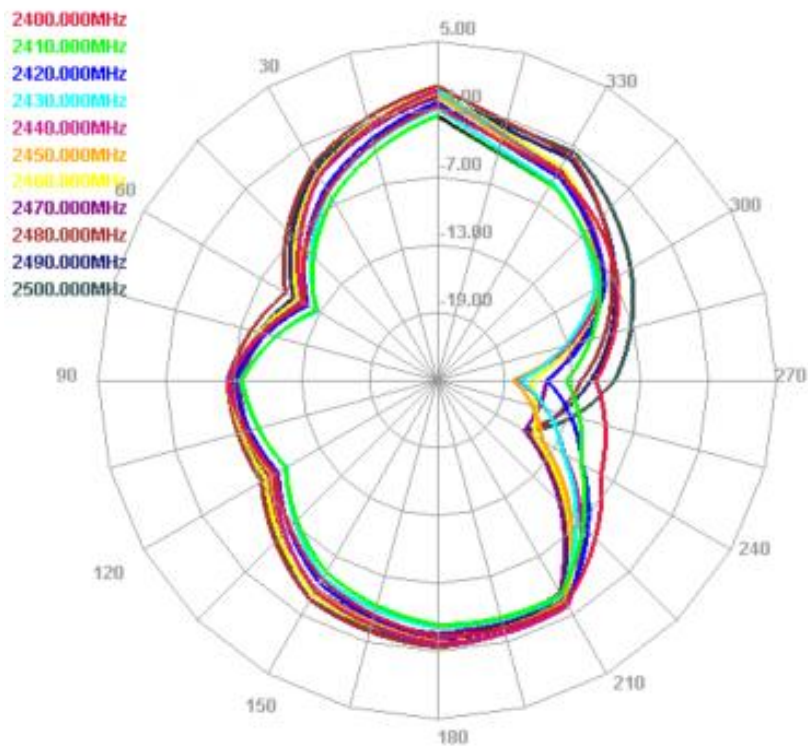
Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

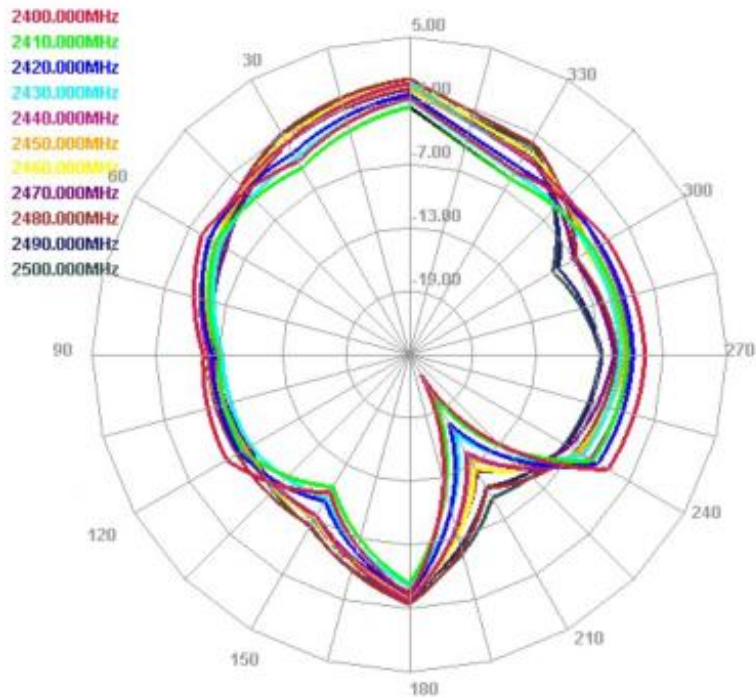
R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

E1 Face



E2 Face



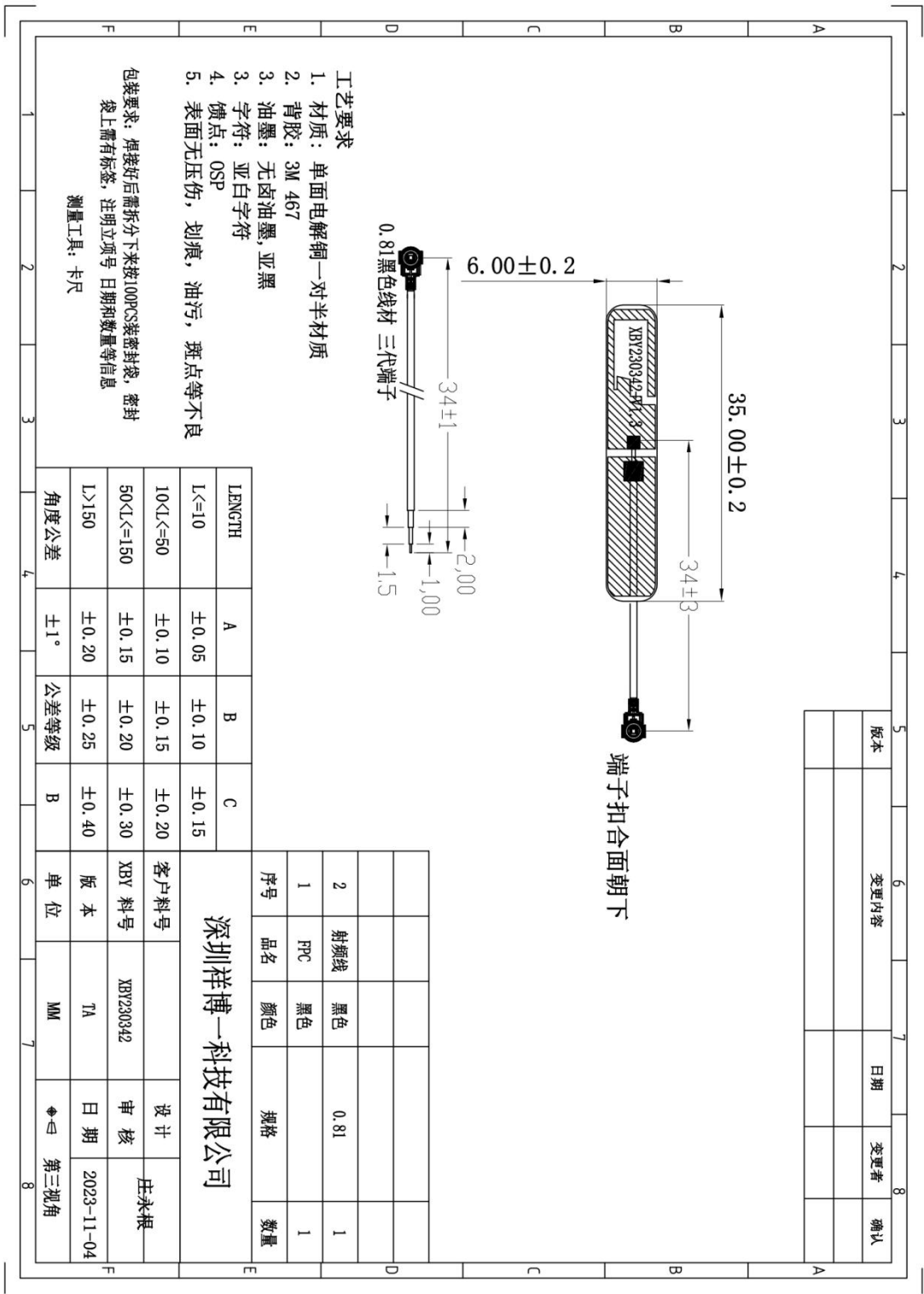
Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

6 Engineering Drawing



Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.