

产品规格承认书

SPECIFICATION FOR APPROVAL

客户名称

Customer Name: Hangzhou Fanhan Technology Co., Ltd.

客户料号

Customer P/N:

产品编码

Product code

产品名称

Production Name:

2.4G ANT (FPC)

产品型号

Production Number:

ABB000272

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**1. Antenna technical parameters**

Technical Parameters		Design Specifications	
Antenna type	FPC ant	Antenna form	FPC antenna
Fre (MHz)	2400-2500	Working Freq (MHz)	2400-2500
Gain (dBi)	2~4	Gain (dBi)	2~4
Antenna efficiency (%)	50~60	antenna effeciency(%)	50~60
VSWR	≤2	VSWR	≤2
Polarization	Linear polarization	Polarization	Linear polarization
Radiation direction	Omnidirectional	Radiation pattern	omnidirectional
Feedback impedance (Ω)	50	Impedance (Ω)	50
Antenna interface	What is the price of the product?	Interface	First generation terminal
Antenna size (mm)	35*11*0.12	Antenna size(mm)	35*11*0.12
Weight (g)	<5	Weight (g)	<5
Operating temperature (° C)	-30~70	Operating Temp (°C)	-30~70
Storage temperature (°C)	-20~55	Storing Temp	-20~55



芯联无线

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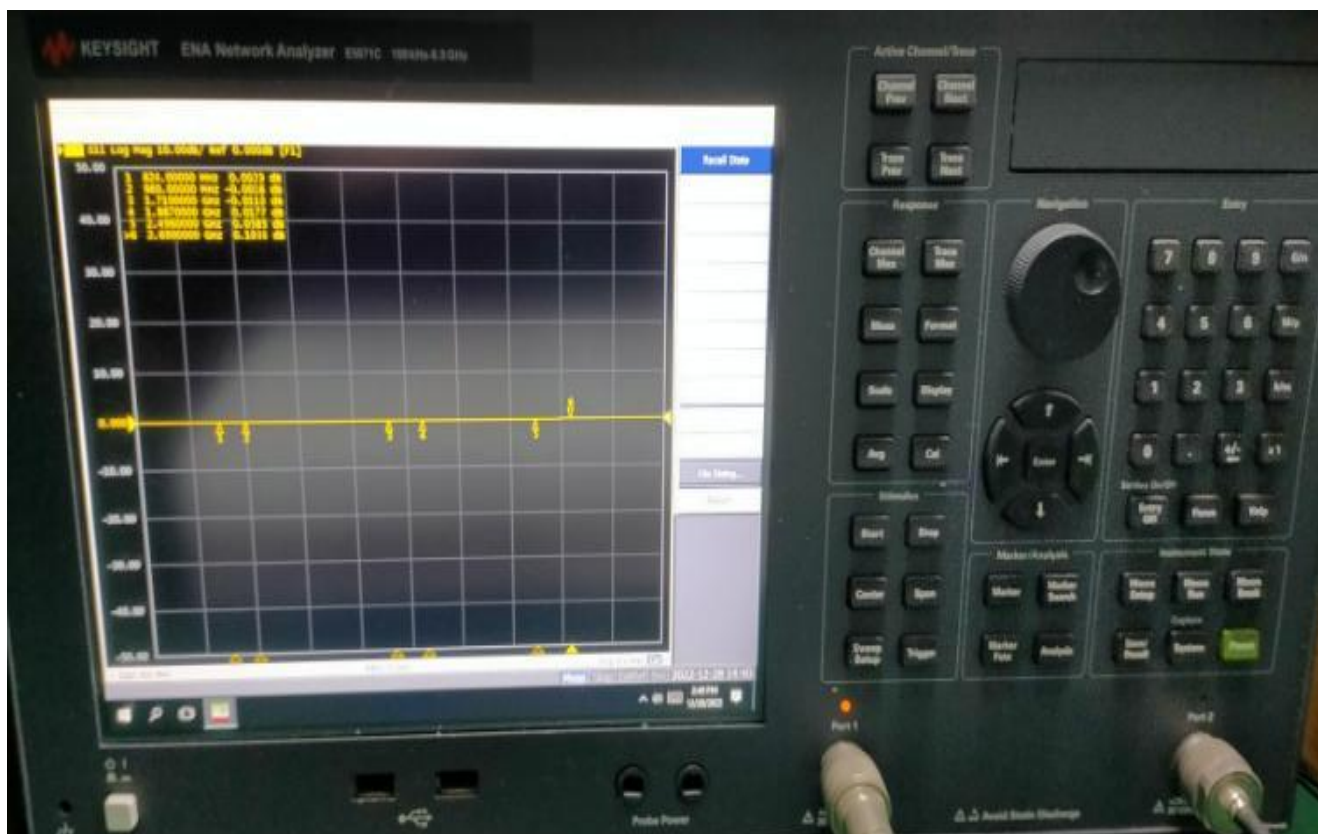
浙江中科芯联无线技术有限公司

Zhejiang Zhongke Core wireless Technology Co.,

LTD2. Product pictures (pictures are for reference only)



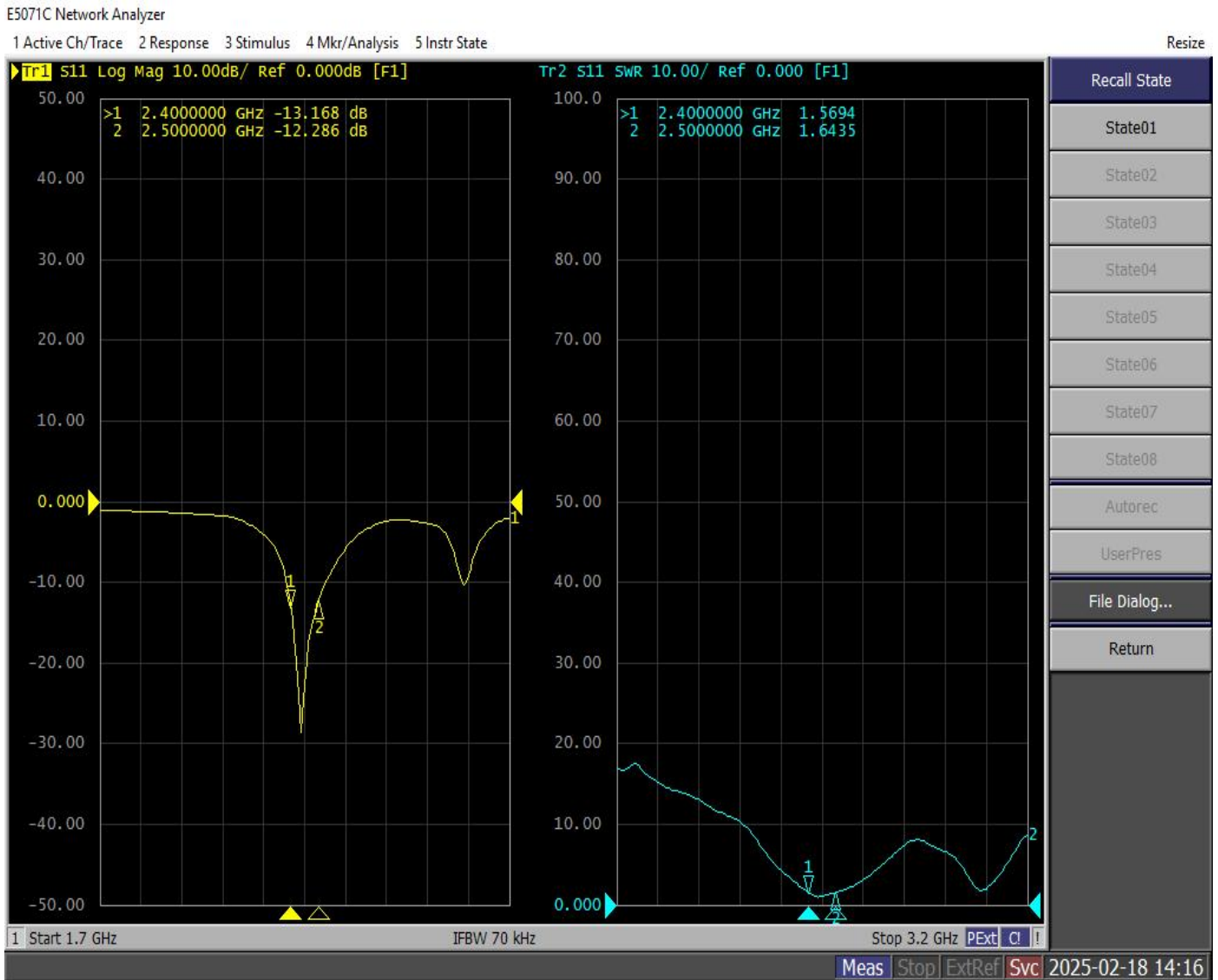
3. Network Analyzer



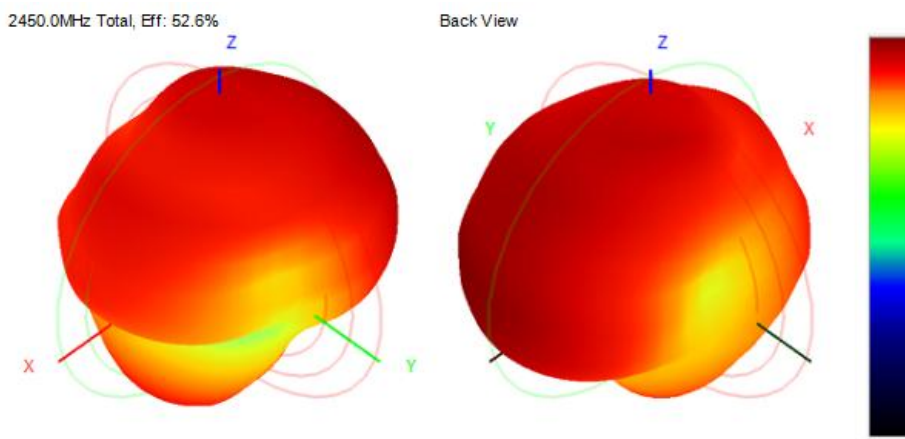
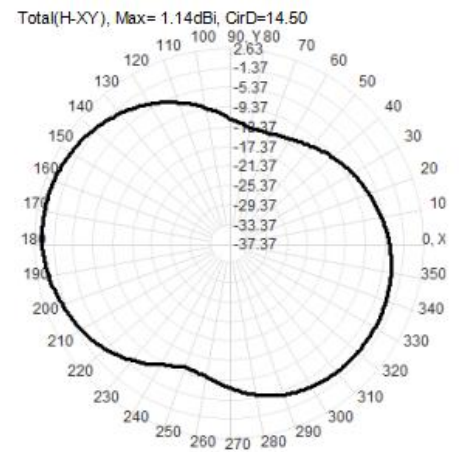
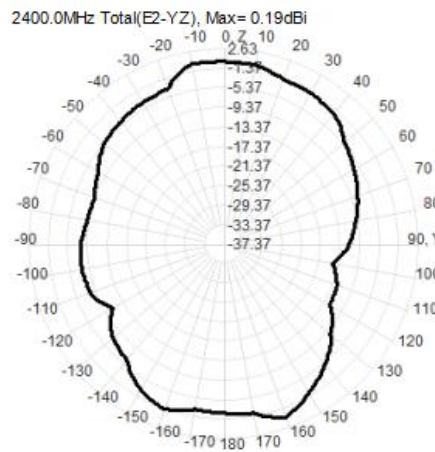
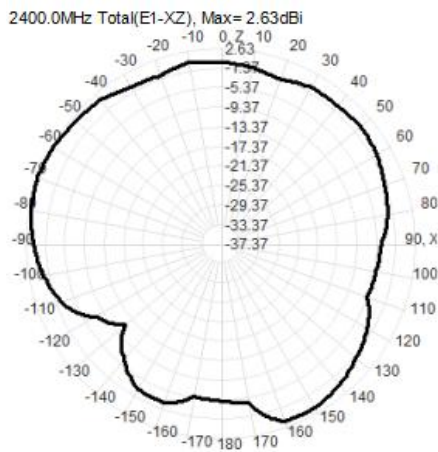
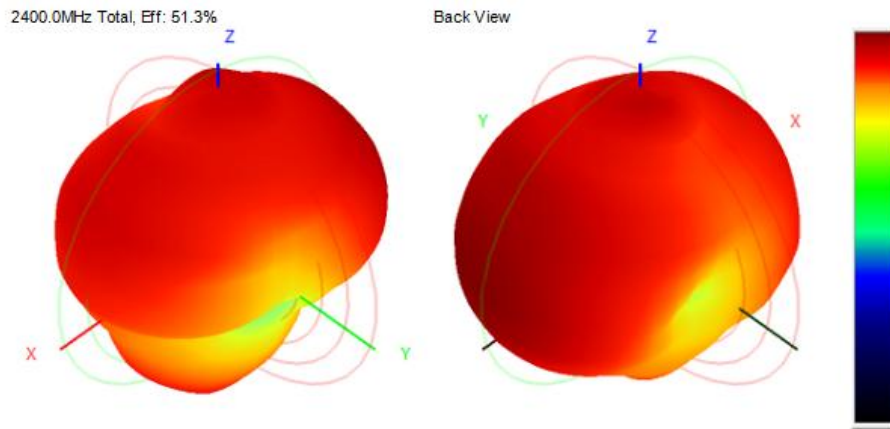


4. Antenna performance test

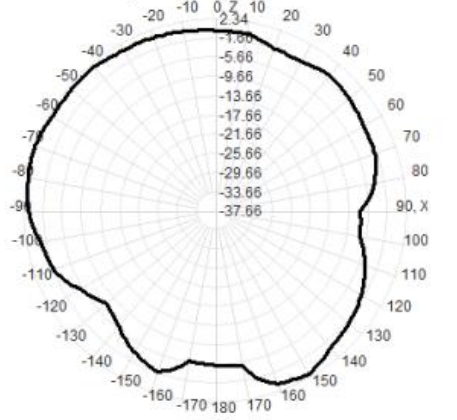
(1) Antenna return loss diagram and standing wave ratio diagram



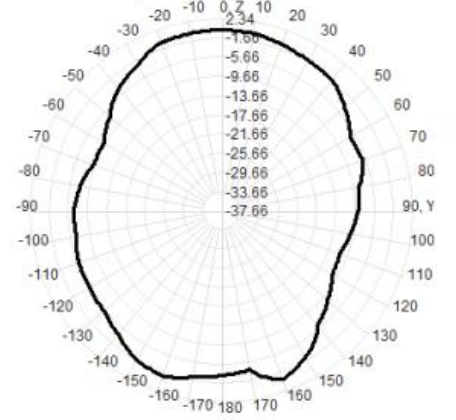
5. Direction diagram



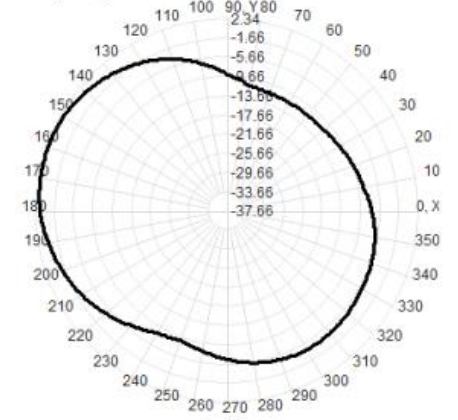
2450.0MHz Total(E1-XZ), Max= 2.34dBi



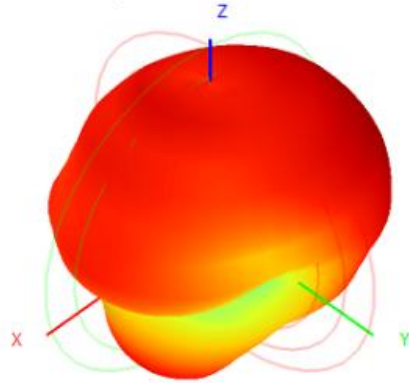
2450.0MHz Total(E2-YZ), Max= -0.00dBi



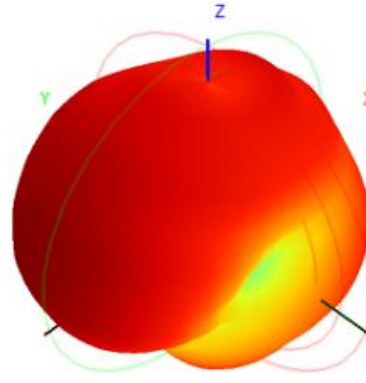
Total(H-X-Y), Max= 1.88dBi, CirD=13.56



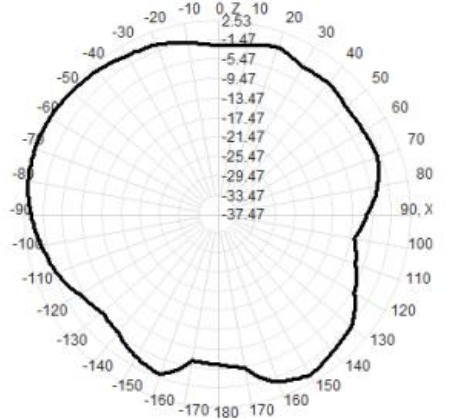
2500.0MHz Total, Eff: 51.3%



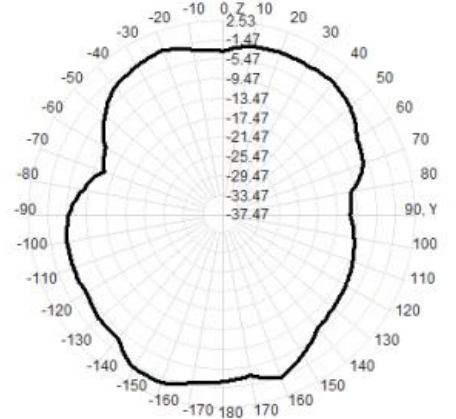
Back View



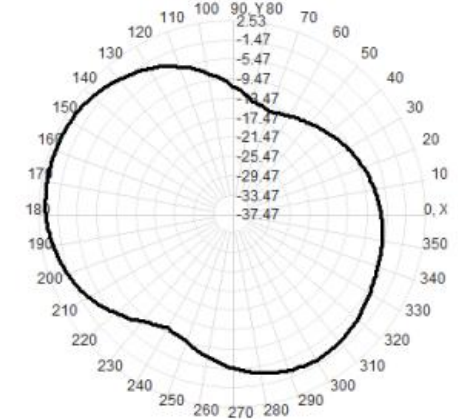
2500.0MHz Total(E1-XZ), Max= 2.53dBi



2500.0MHz Total(E2-YZ), Max= -0.65dBi



Total(H-X-Y), Max= 1.39dBi, CirD=16.35



6. Efficiency curve and gain curve



7. Active Test

WLAN Antenna Performance Table																		
WLAN Whole Band TRP (dBm)			18.07															
WLAN Whole Band TIS (dBm)			-89.55															
	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	NHPRP +/-30	NHPRP +/-45	NHPRP +/-60	Gain (dBi)	Directivity y (dBi)	Efficienc y (%)	Efficienc y (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)
Phone Tx (Uplink Path)	1	1	19.06	--	15.34	17.03	18.17	--	--	--	--	24.53	60	180	4.56	90	270	--
	2	6	18.65	--	15.14	16.66	17.77	--	--	--	--	24.39	60	180	6.67	120	330	--
	3	11	18.08	--	14.43	16.03	17.18	--	--	--	--	23.13	60	180	3.62	120	330	--
	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phone Rx (Downlink Path)	1	1	--	-88.88	-84.82	-86.57	-87.88	--	--	--	--	-75.57	90	270	-93.37	150	0	--
	2	6	--	-90.29	-86.61	-88.22	-89.37	--	--	--	--	-81.70	120	120	-95.53	60	180	--
	3	11	--	-89.36	-85.66	-87.18	-88.41	--	--	--	--	-79.78	60	270	-94.65	60	180	--
	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

8. Product structure drawing (mm)

