

QIN XIN technology CO.,LTD

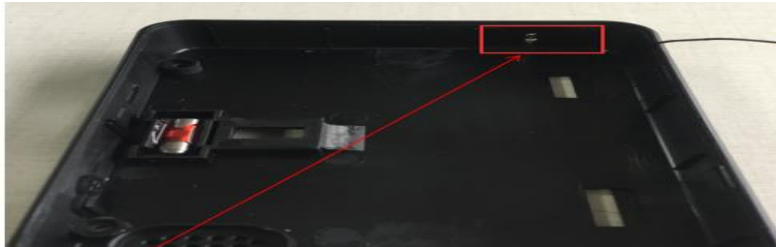
Antenna specification sheet

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1. Antenna characteristic description

1.1 Antenna schematic diagram



1.2 Physical Property Description

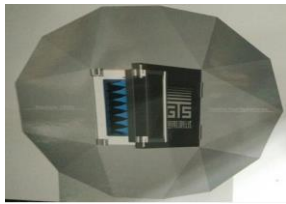
Function	2. 4G
Antenna appearance size	15. 5. *19. 5*0. 5MM
Antenna material	FPC
Antenna color	black
Working temperature	-20℃-65℃
Storage temperature	-20℃-80℃

1.3 Electrical characteristic description

function	2.4G
frequency range (GHZ)	2.4GHz-2.5GHz
Voltage standing wave ratio (VSWR)	≤ 1.5
gain (Peak gain)	0.2dBi
Input impedance(Ω)	50
Polarization mode	Vertical, linear
Antenna form	PIFA

2、Antenna testing

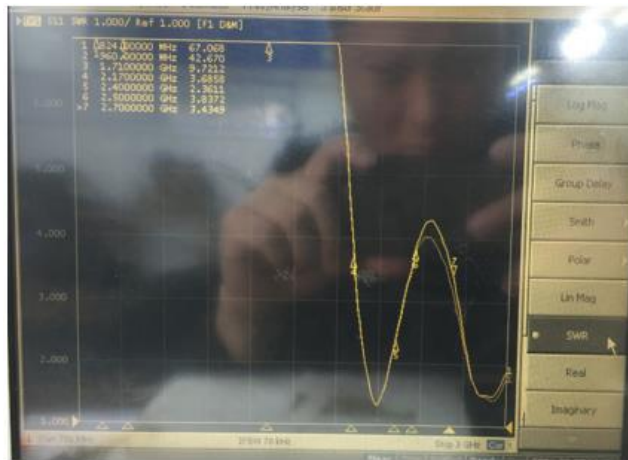
2.1 Testing equipment

Number	Device Name	Device images	Measurement indicators	Operating environment
1	Microwave anechoic chamber		Passive performance	There are no large metal objects around Normal temperature and humidity
2	HP8753D network analyzer			

2.2 test result

Echo standing loss

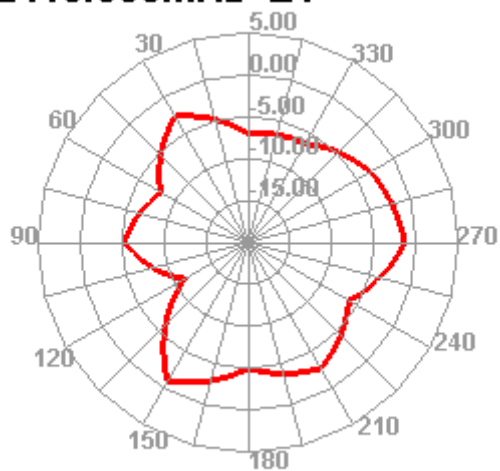
SMITH



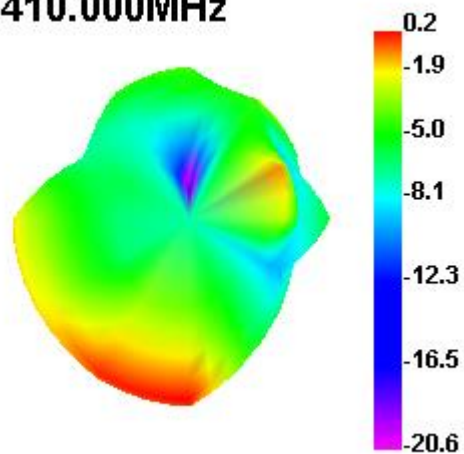
2.4G antenna efficiency and gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	37.43	-4.27	-0.48
2410	35.43	-4.51	0.2
2420	35.98	-4.44	-0.71
2430	34.3	-4.65	-1.08
2440	34.18	-4.66	-0.97
2450	35.78	-4.46	-0.9
2460	37.42	-4.27	-0.19
2470	37.25	-4.29	-0.09
2480	39.17	-4.07	-0.07
2490	38.71	-4.12	-0.01
2500	37.75	-4.23	-0.14

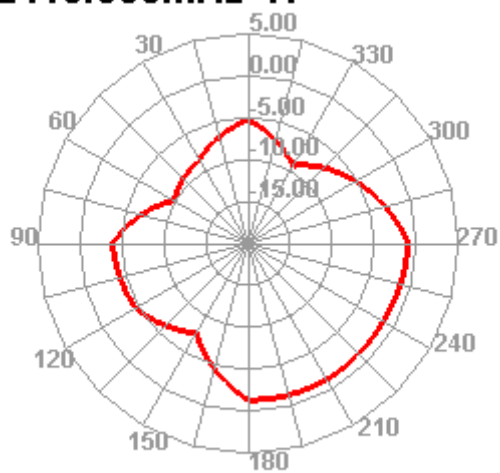
2410.000MHz E1



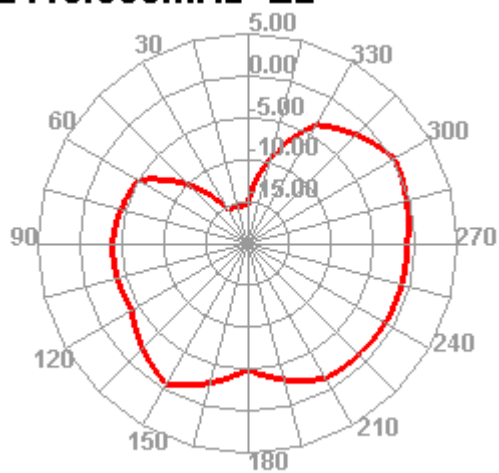
2410.000MHz



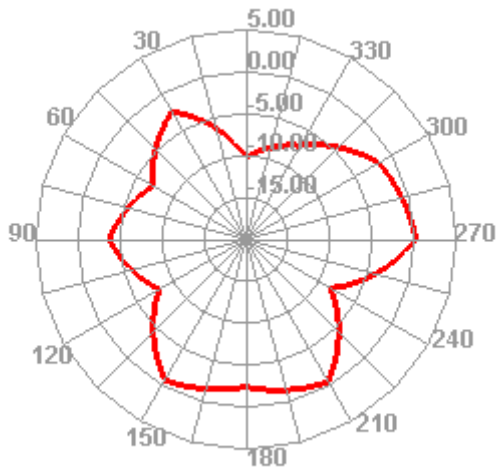
2410.000MHz H



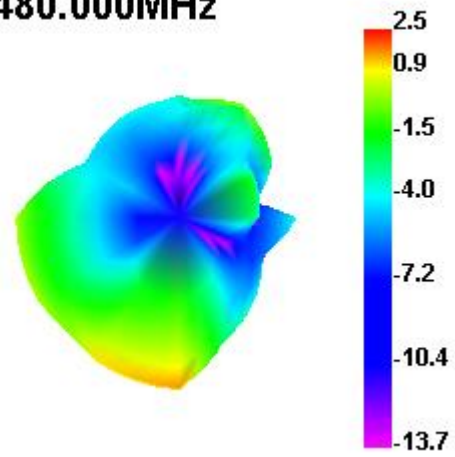
2410.000MHz E2



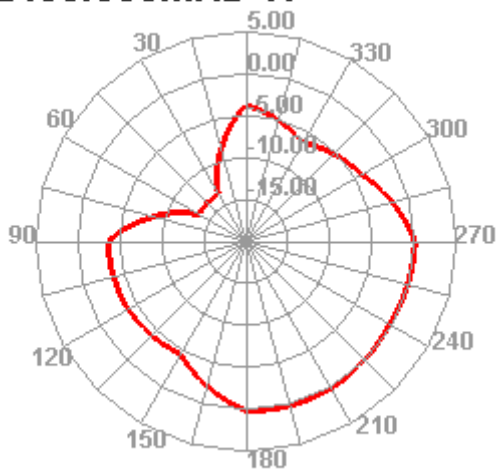
2480.000MHz E1



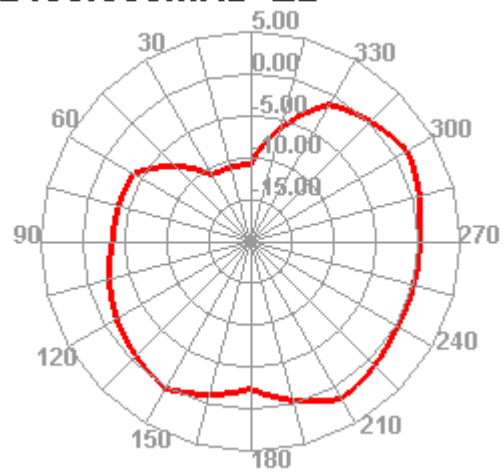
2480.000MHz



2480.000MHz H



2480.000MHz E2



2.3 Matching circuit

