

深圳市智汉科技有限公司

ShenZhen RF Crazy Technology Co.,Ltd

天线规格承认书

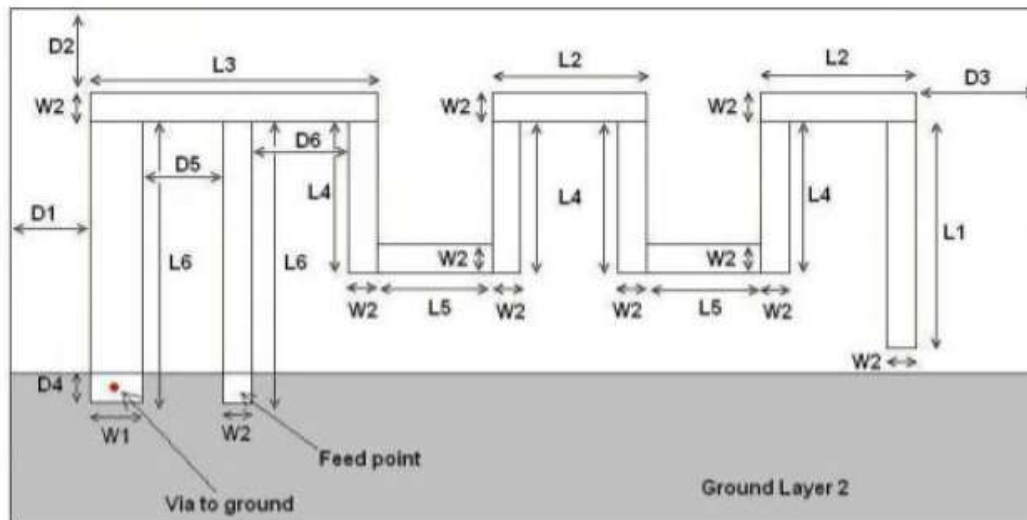
Antenna Specification for Approval

Product Name: PCB Antenna

Write By: Damon Cui

Issued Date: 2022-12-20

1、 The antenna size



L1	3.94 mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.90 mm
W1	0.90 mm
W2	0.50 mm
D1	0.50 mm
D2	0.30 mm
D3	0.30 mm
D4	0.50 mm
D5	1.40 mm
D6	1.70 mm

2、 Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz
VSWR	2400MHz ~2500MHz <2.0
Efficiency	>50%
Impedance	50 Ohm
Polarization	Line
Gain	2dBi @ 2400MHz ~2500MHz
B. Material & Mechanical Characteristics	

3、 Test Equipment & Conditions

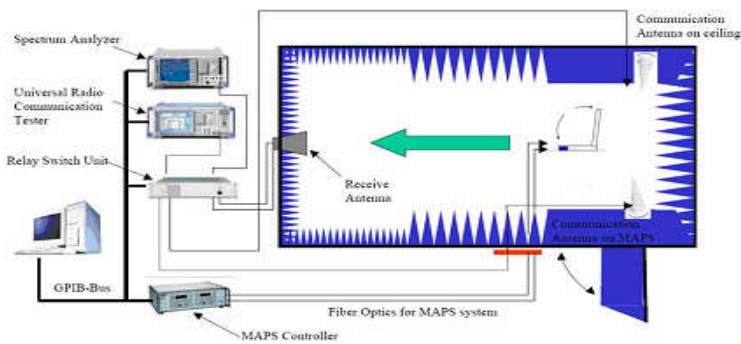
1. Network Analyzers :

Agilent 8753D 5071B

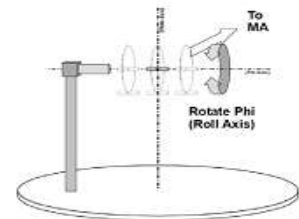
2. Communications Test Set:

Agilent E5515C

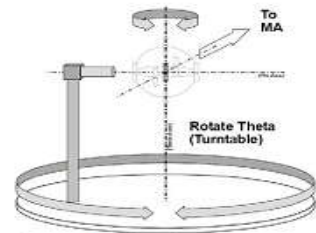
3. 3D Chamber Test System



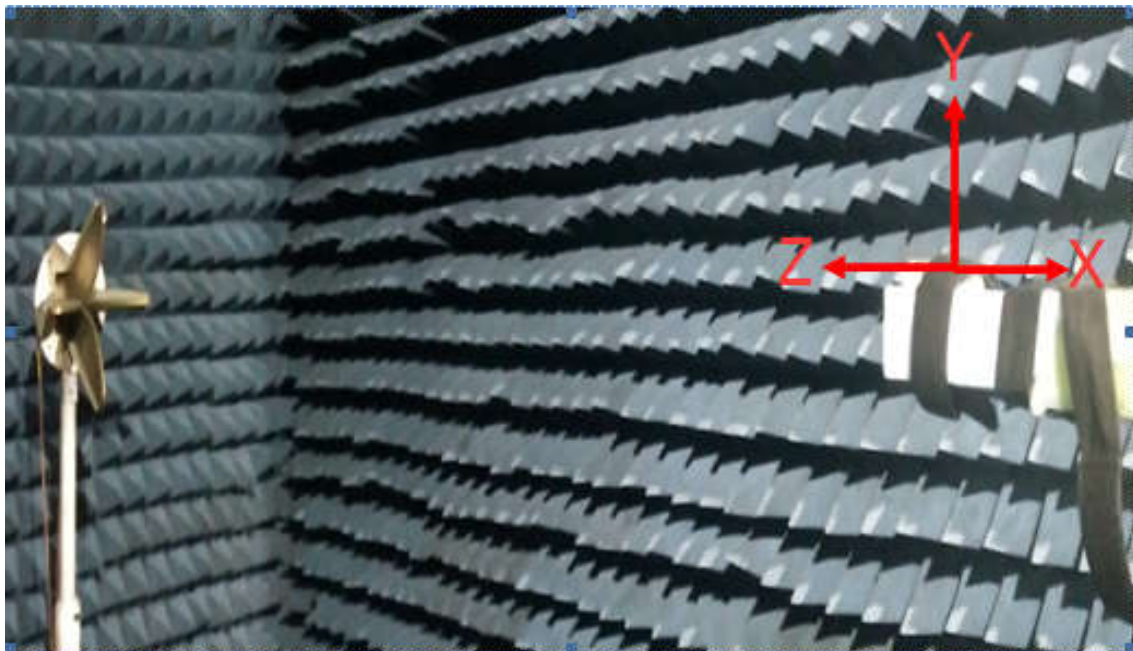
(Testing by 3D anechoic chamber)



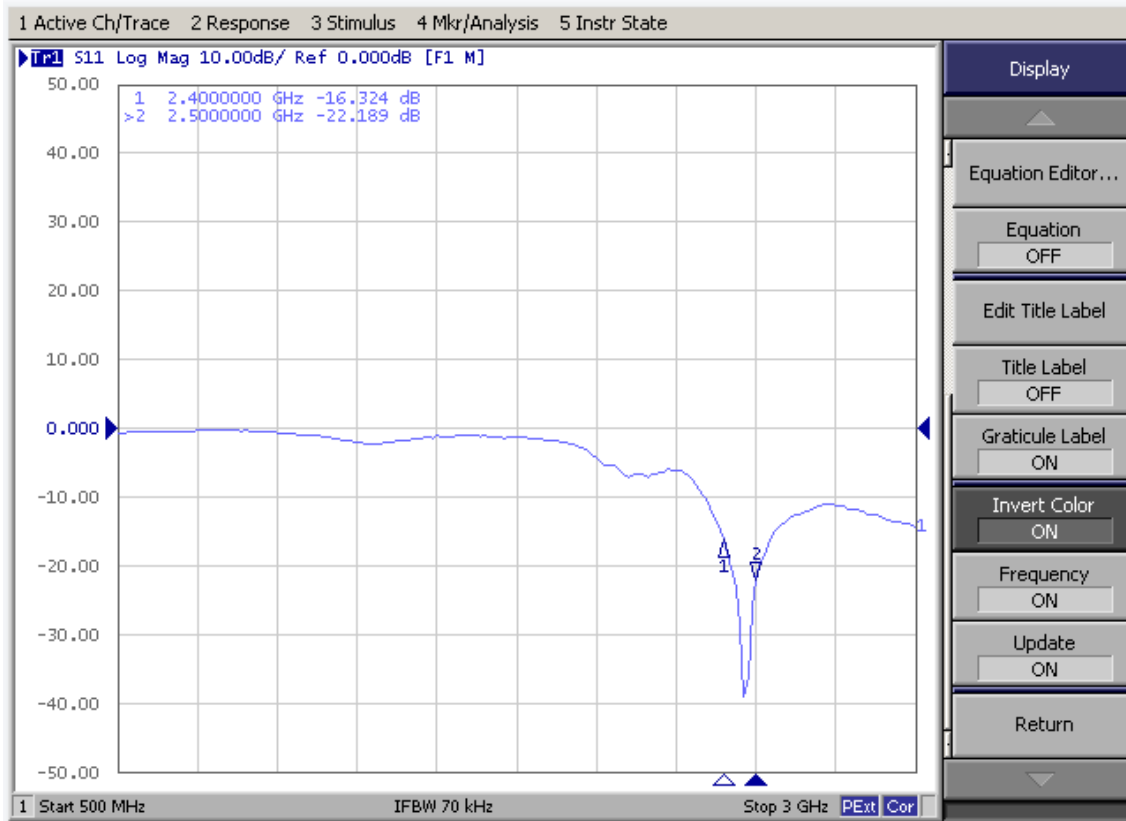
Phi axis test



Theta axis test



S11



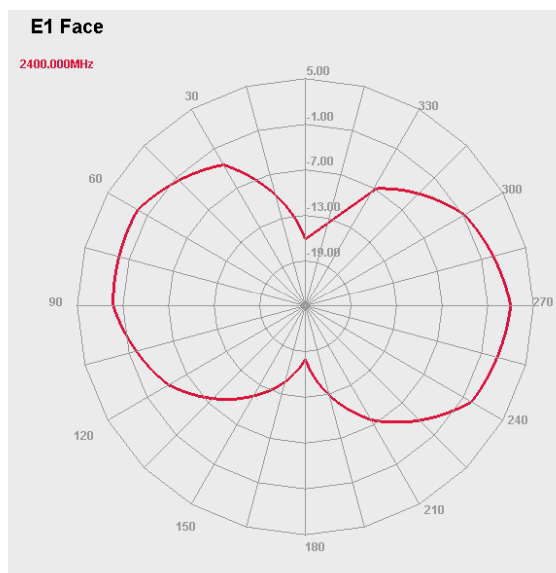
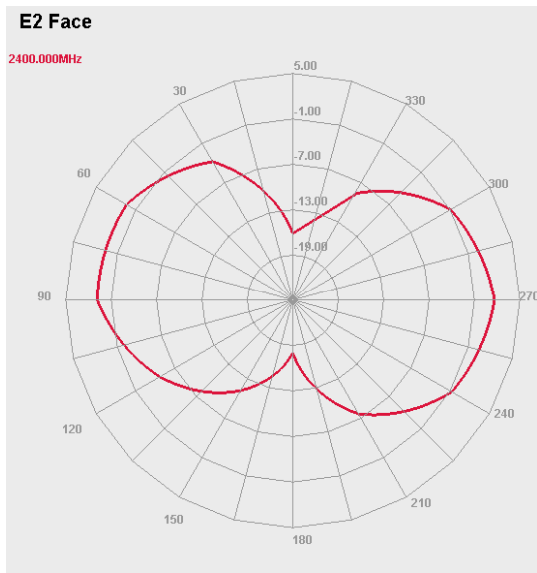
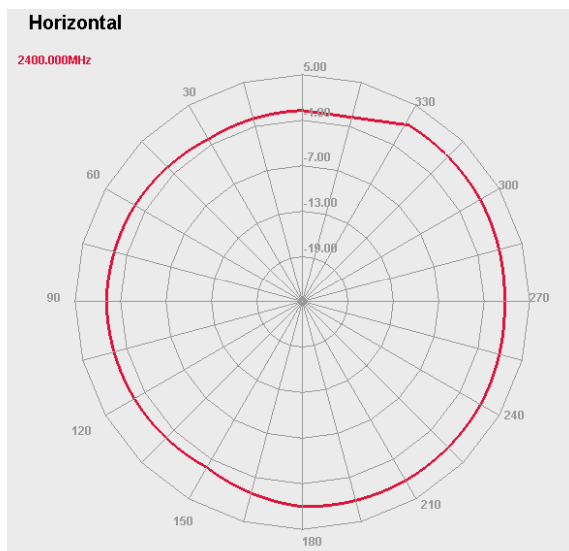
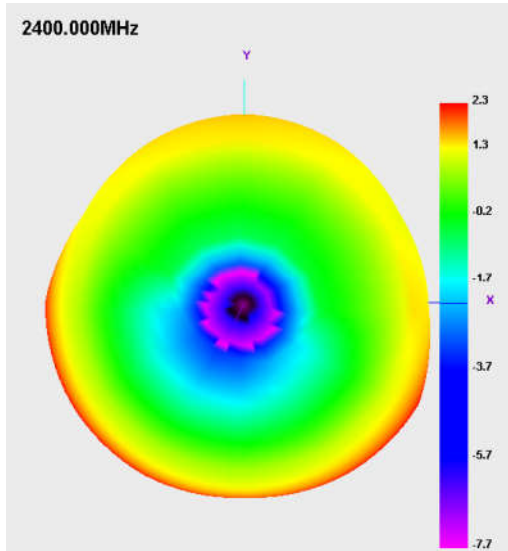
Gain:

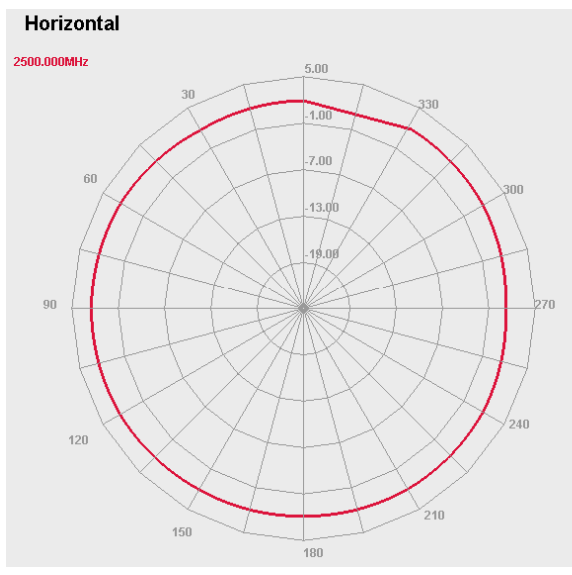
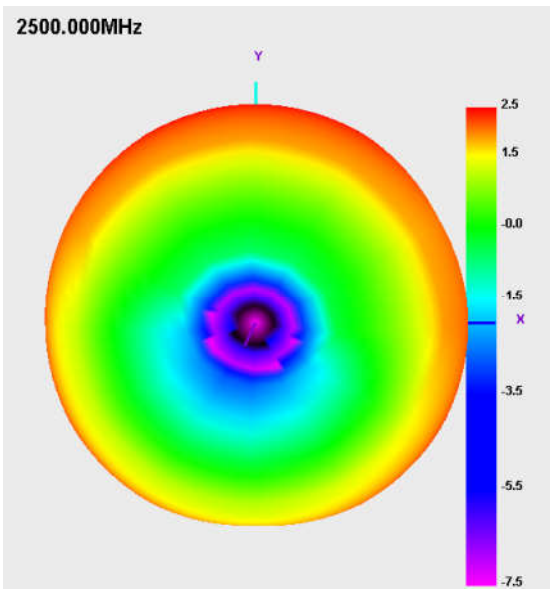
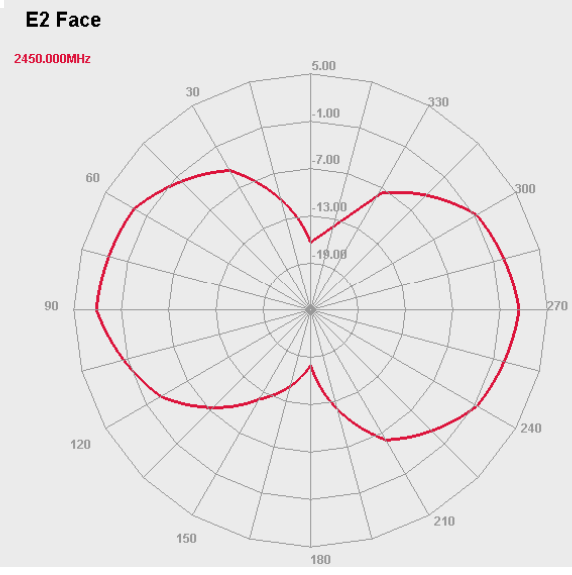
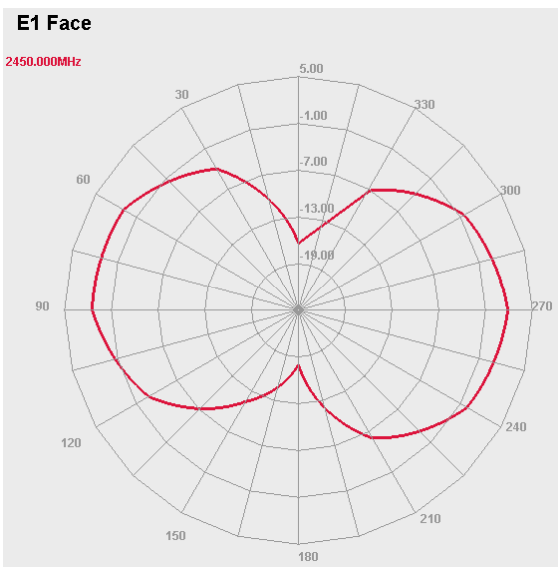
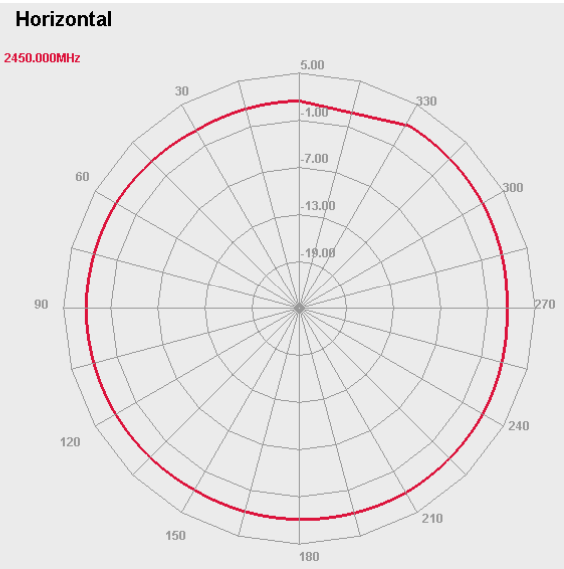
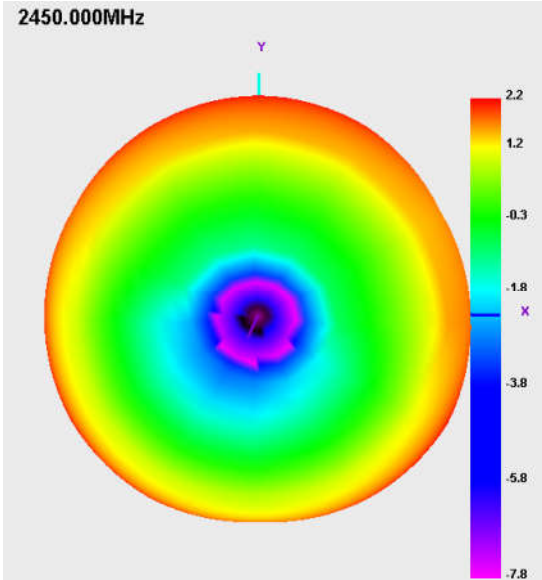
Freq (MHz)	Gain (dBi)
2400	2.25
2410	2.26
2420	2.19
2430	2.1
2440	2.15
2450	2.18
2460	2.18
2470	2.12
2480	2.16
2490	2.41
2500	2.48

Efficiency:

Freq (MHz)	Effi (%)
2400	68.05
2410	68.65
2420	70.69
2430	72.1
2440	74.49
2450	76.27
2460	75.67
2470	74.18
2480	75.79
2490	79.3
2500	78.4

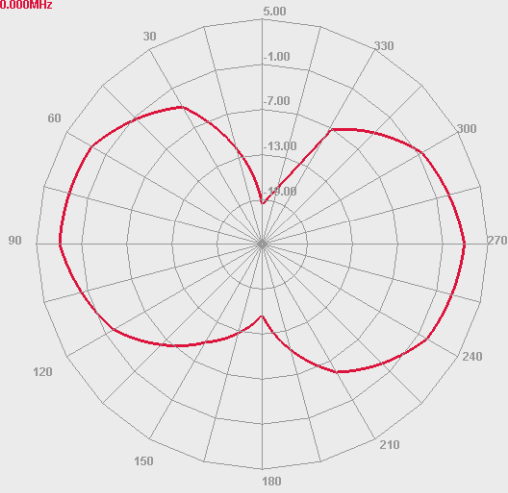
Radiation Pattern:





E1 Face

2500.000MHz



E2 Face

2500.000MHz

