



TEST REPORT



ISSUED FOR

DONGGUAN HOGNYUANWEI Technology Co.,LTD

**155 East Central Road, Xiansha Second Industrial Zone,
GaoBu Town, Dongguan City, Guangdong Province**

MANUFACTURER	:	DONGGUAN HOGNYUANWEI Technology Co.,LTD
PRODUCT NAME	:	PCB Antenna
MODEL NAME	:	2.4G ANT
TRADE NAME	:	N/A
Test Standard	:	IEEE149-1979
TEST DATE	:	2022-09-25
ISSUE DATE	:	2022-10-10

Testing Engineer :



Authorized Signatory :

Jim he





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Change History		
Issue	Date	Reason
1.0	2022-10-10	First edition



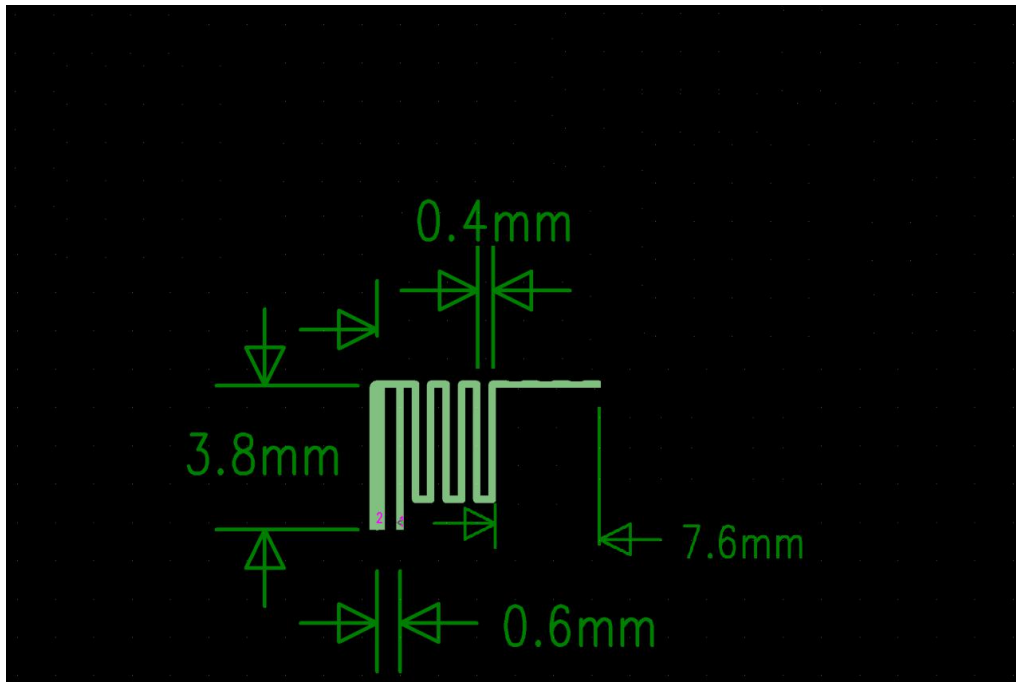
1. Technical Information

Note: Provide by manufacturer.

1.1. Equipment Under Test (EUT) Description

Frequency Range(MHZ)	2400-2500
Impedance(Ω)	50 $\pm$ 10
Gain(dBi)	0
ReTurnLoss(dB)	$\leq$ -10
VSWR	$\leq$ 1.92
Polarization	omni
Manufacture	DONGGUAN HOGNYUANWEI Technology Co.,LTD

1.2. Equipment Under Test (EUT) Specification





2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE149-1979	IEEE Standard Test Procedures for Antennas

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	15 ... 75 %
Temperature:	+10 °C to +30 °C

2.3. Test Results lists

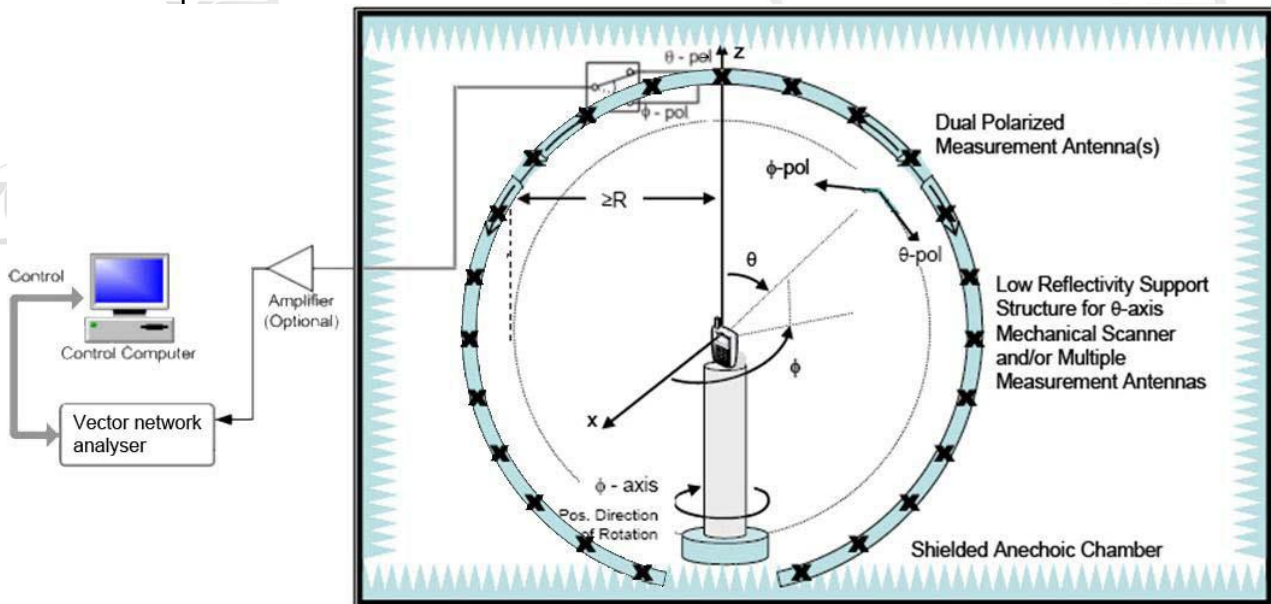
2.3.1. Gain

Frequency (MHz)	Efficiency (%)	Gain (dBi)
频率	效率	增益
2400	9.4125	-3.585
2410	10.3365	-3.511
2420	11.2108	-3.425
2430	11.9845	-3.425
2440	13.5167	-3.311
2450	15.3369	-2.541
2460	16.0597	-2.245
2470	17.1025	-2.181
2480	17.3316	-1.154
2490	18.2557	-1.002
2500	19.1582	-0.001



Annex A Photographs

1. Test Setup



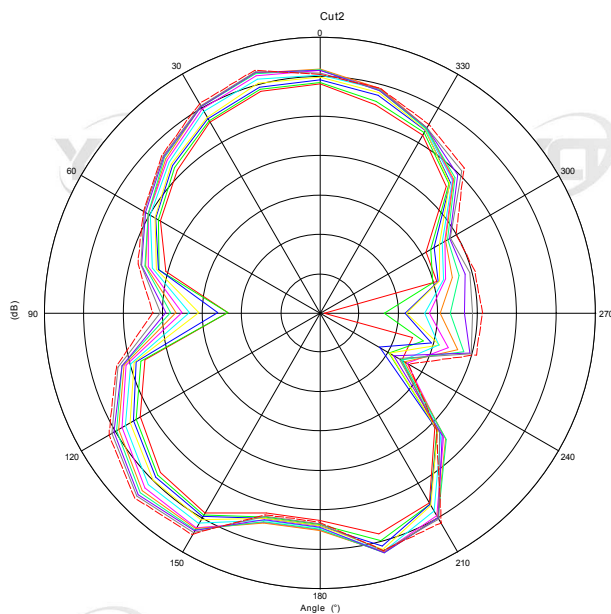


Annex B Figures

1. 2D Radiation Pattern

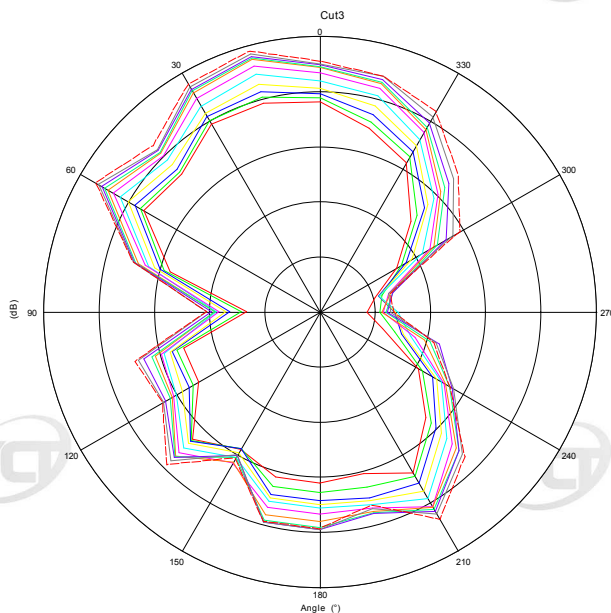
Phi=0°

Max: -5
Min: -40
Scale: 5/div



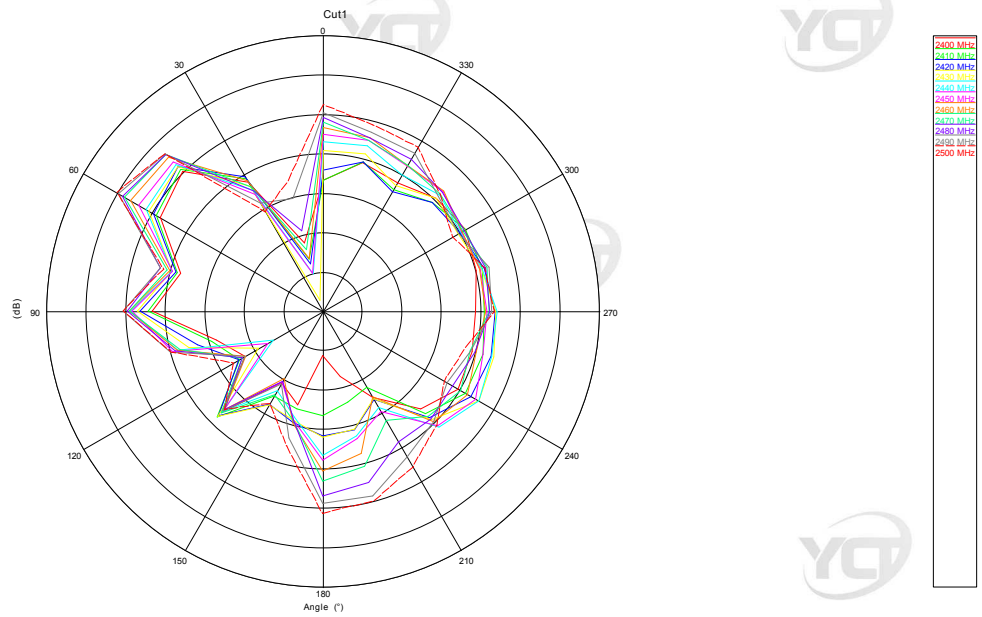
Phi=90°

Max: -5
Min: -30
Scale: 5/div





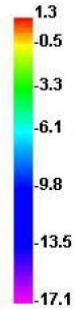
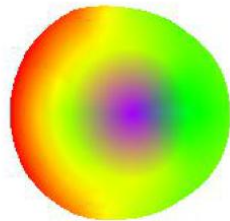
Theta=90°



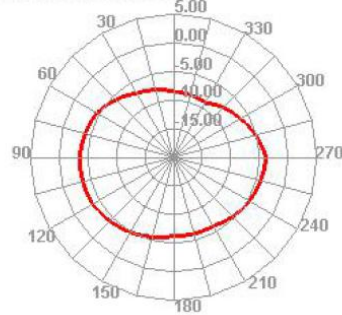
2. 3D Radiation Pattern



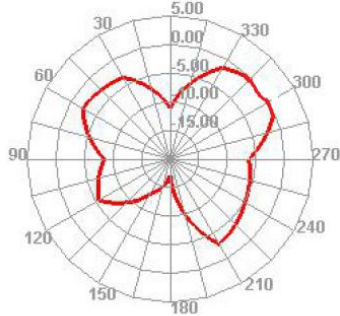
2400.000MHz



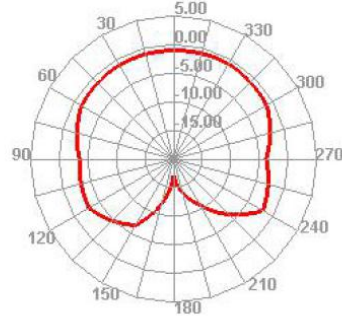
2400.000MHz H



2400.000MHz E1



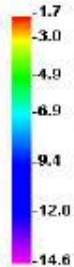
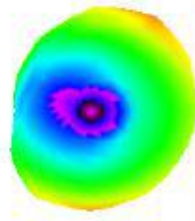
2400.000MHz E2



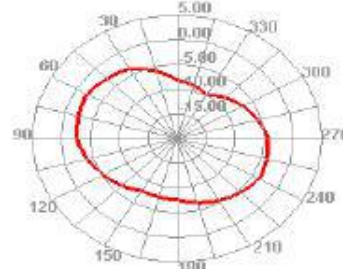
2400MHz



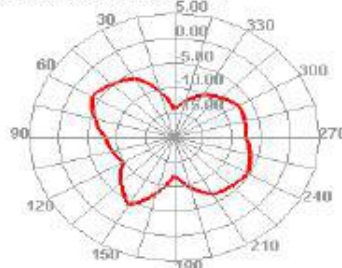
2440.000MHz



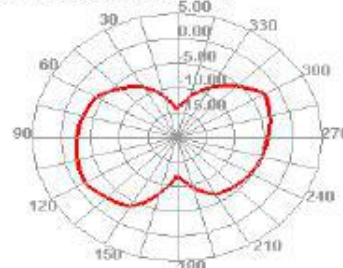
2440.000MHz H



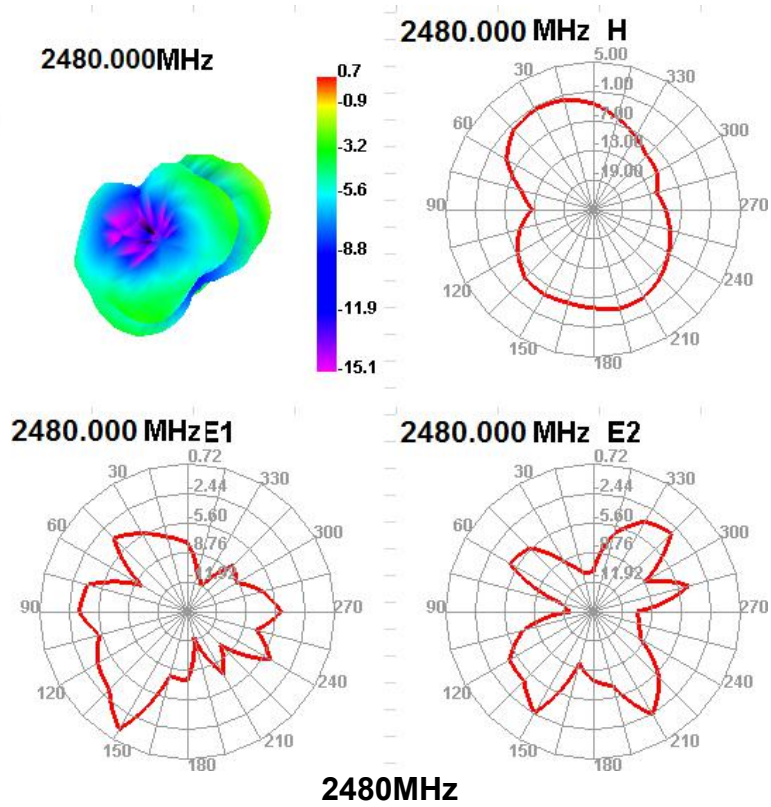
2440.000MHz E1



2440.000MHz E2



2440MHz



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