



TEST REPORT



ISSUED FOR

Huizhou City Huan Dong Industrial Co., Ltd



Weibu area, Qiuchang Town, Huizhou City, 516221 China

MANUFACTURER	:	Huizhou City Huan Dong Industrial Co., Ltd
PRODUCT NAME	:	PCB Antenna
MODEL NAME	:	S05
TRADE NAME	:	N/A
Test Standard	:	IEEE149-1979
TEST DATE	:	2022-09-05
ISSUE DATE	:	2022-09-07

Testing Engineer :

Peter peng

Peter peng

Authorized Signatory :

Jim he

Jim he





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Change History		
Issue	Date	Reason
1.0	2022-09-07	First edition



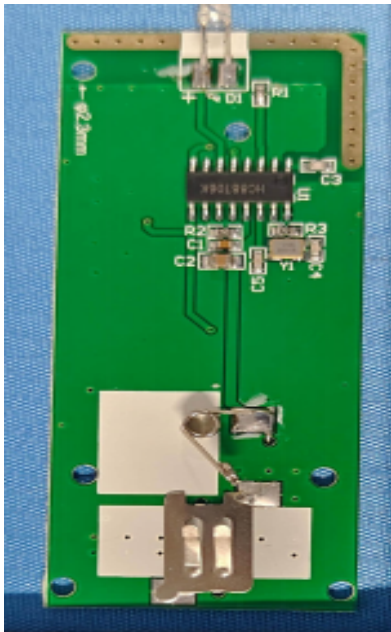
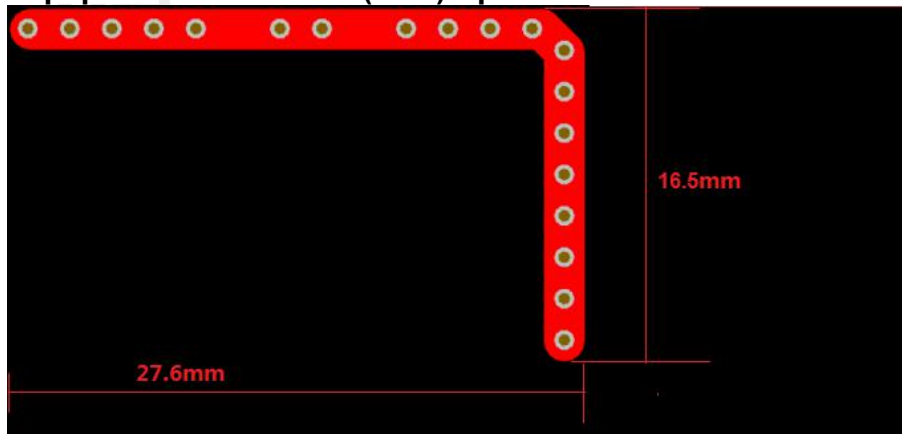
1. Technical Information

Note: Provide by manufacturer.

1.1. Equipment Under Test (EUT) Description

Frequency Range(MHZ)	2400-2500
Impedance(Ω)	50 ± 10
Gain(dBi)	-1.0
ReTurnLoss(dB)	≤ -10
VSWR	≤ 1.88
Polarization	omni

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

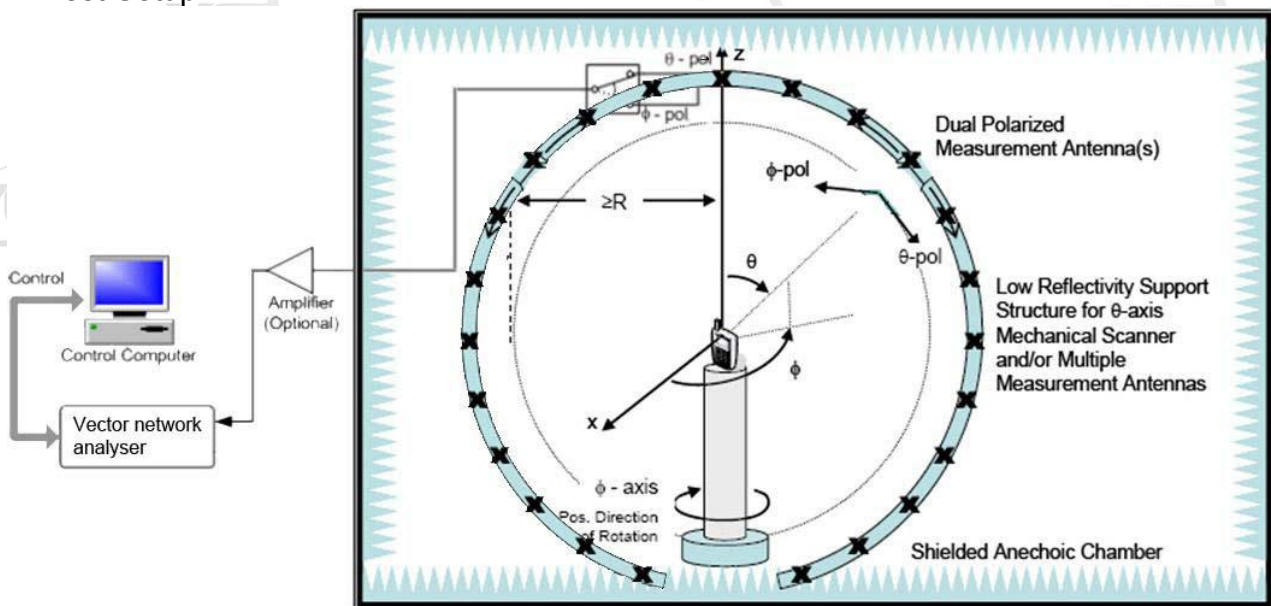
2.3.1. Gain

Frequency (MHz)	Efficiency (%)	Gain (dBi)
频率	效率	增益
2400	9.4125	-4.8572
2410	10.3365	-4.3316
2420	11.2108	-3.7154
2430	11.9845	-3.5542
2440	13.5167	-3.4413
2450	15.3369	-3.4063
2460	16.0597	-3.3521
2470	17.1025	-2.9571
2480	17.3316	-1.524
2490	18.2557	-1.025
2500	19.1582	-1.000



Annex A Photographs

1. Test Setup



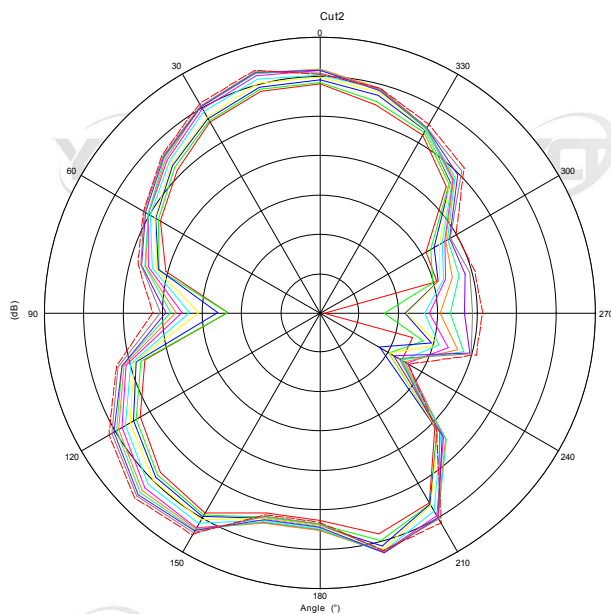


Annex B Figures

1. 2D Radiation Pattern

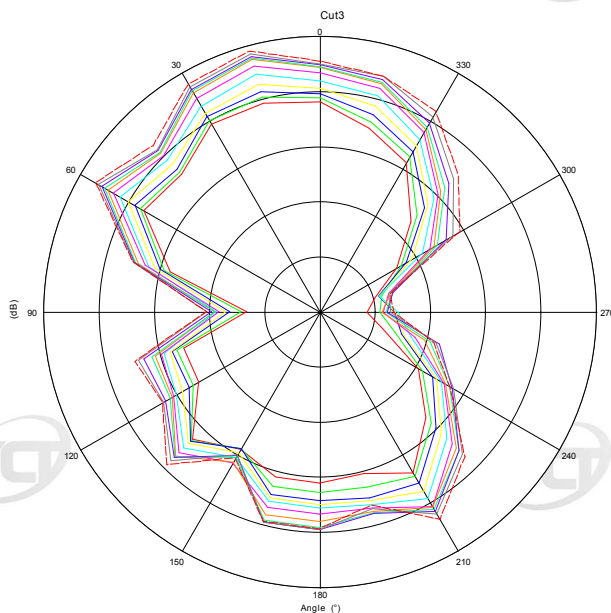
Phi=0°

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



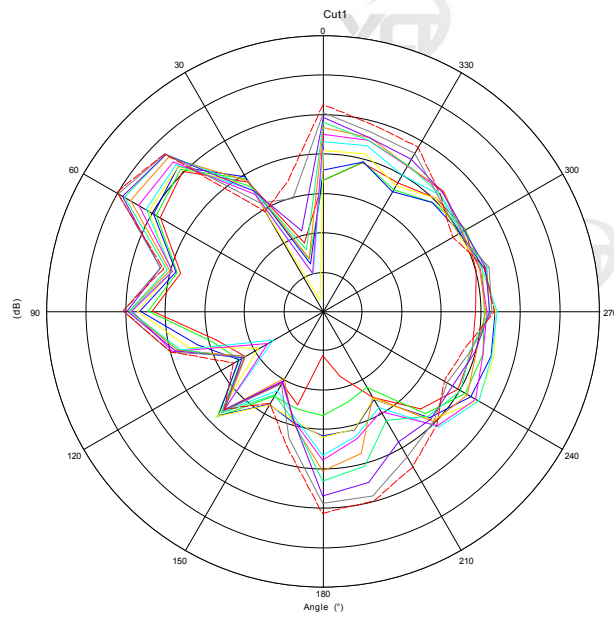
Phi=90°

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





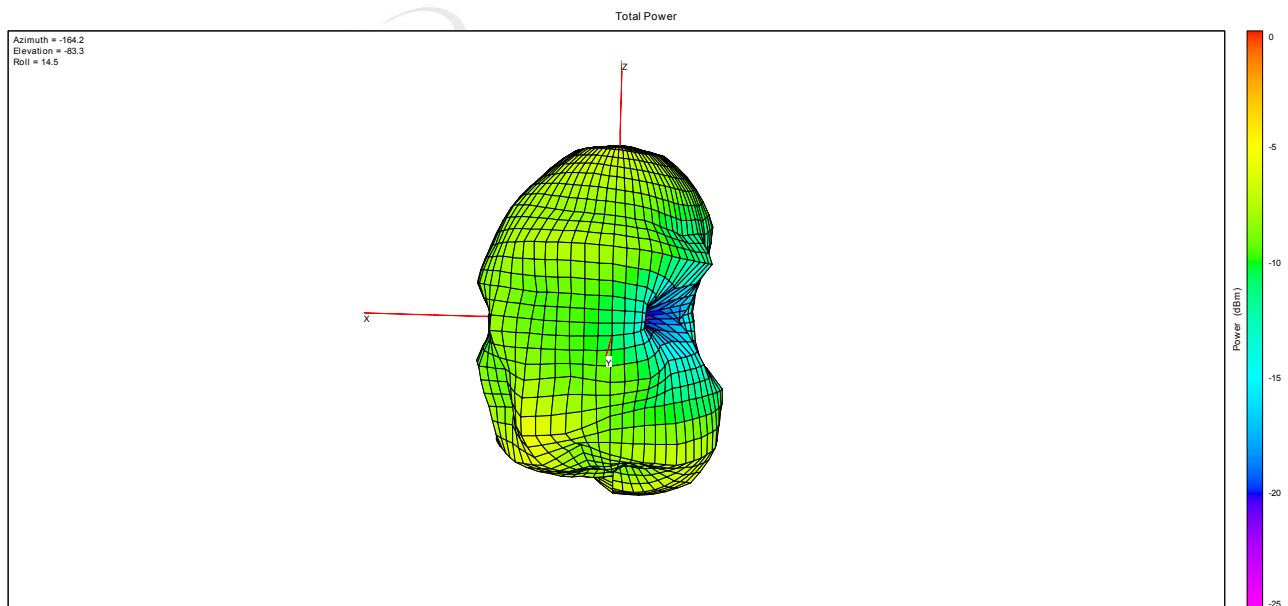
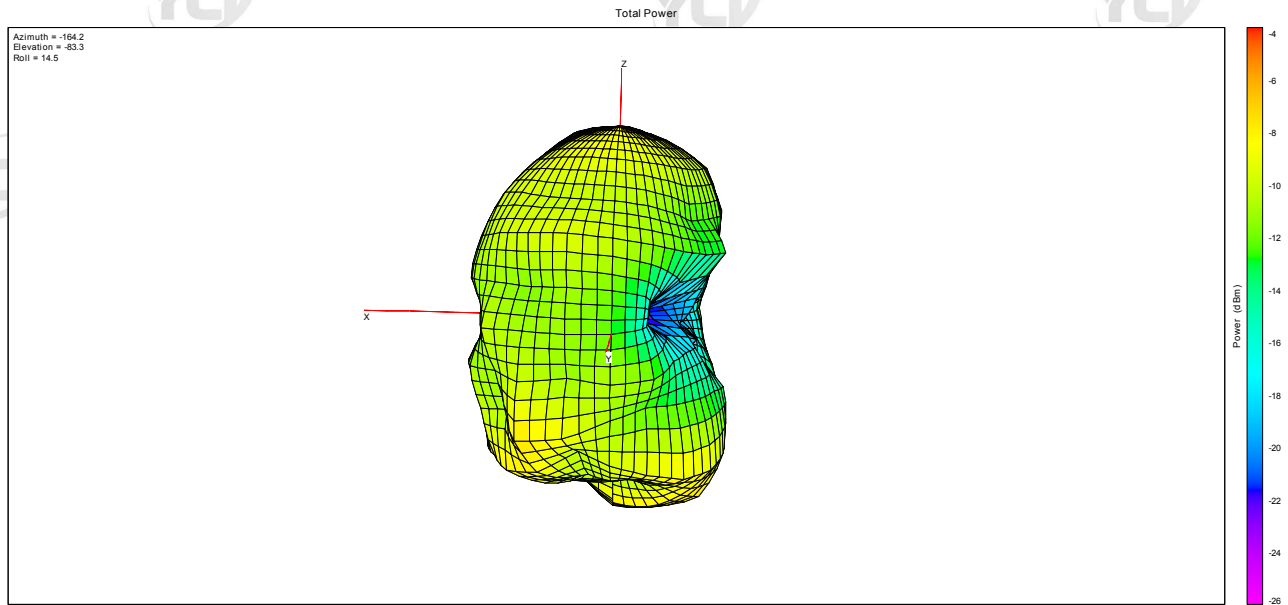
Theta=90°

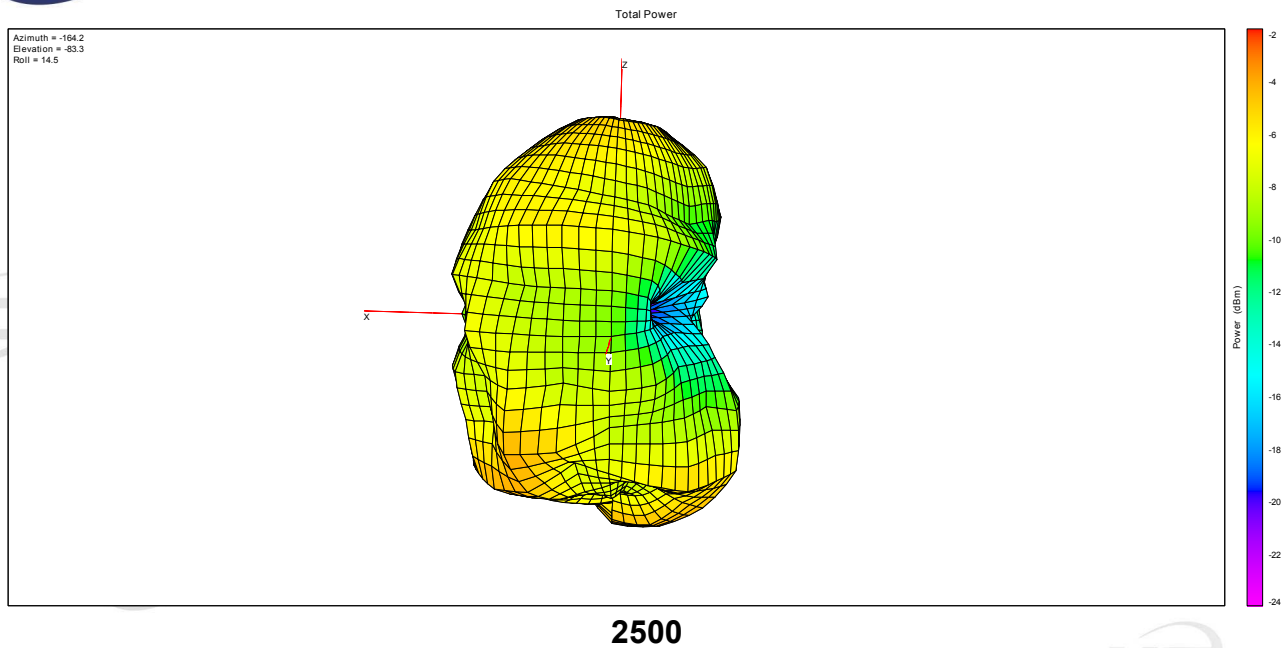


Max: -10
Min: -45
Scale: 5/div



2. 3D Radiation Pattern





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