

Antenna Sample Datasheet

customer:	Shenzhen Fangcheng Baiyi Technology Co., LTD
entry name:	OD03
Material category:	BT antenna
Antenna Type	PIFA
Antenna Material	FPC
edition:	A0
Date:	2024. 12. 31

Antenna manufacturer: Hongji Wireless Communication (Shenzhen)
Co., LTD

<http://www.honant.com.cn>

Address: 12 / F, West Block B, Building 8, Huaqiang Creative Industry
Park, Sightseeing Road, Guangming District, Shenzhen

Contents

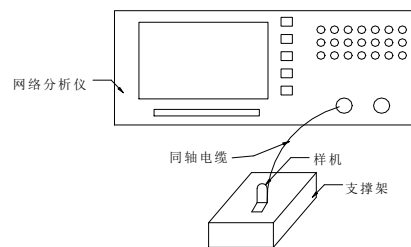
1: Antenna test equipment.....	1
2: Passive test report.....	3
3: Structural drawing.....	5

1: Antenna test equipment

List of meters: Agilent 5071B;

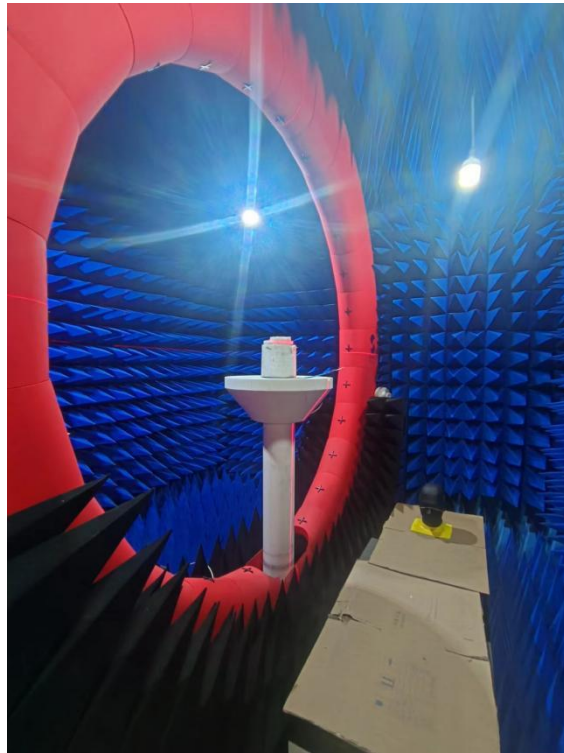


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



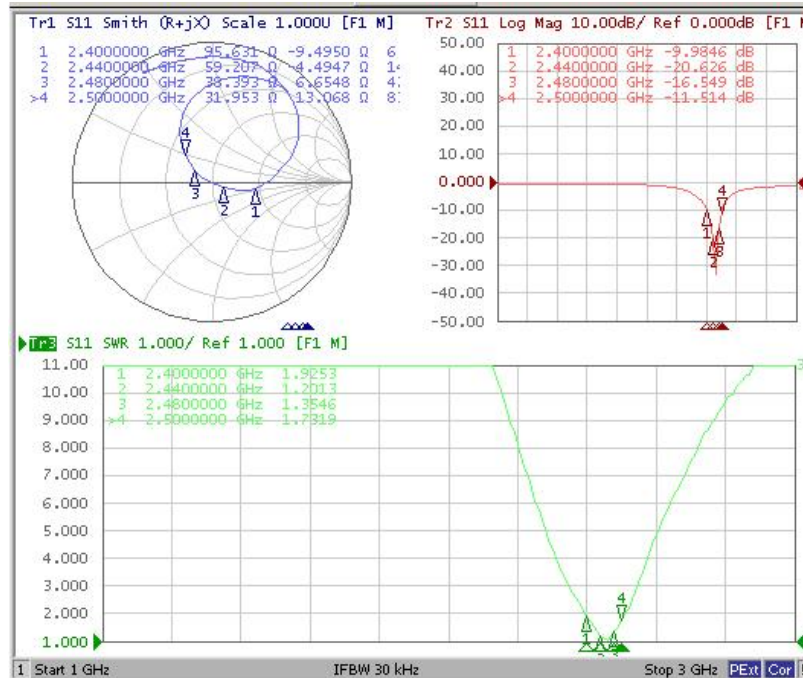
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: BT antenna S11 parameters



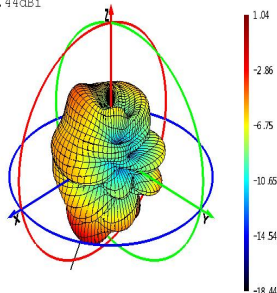
2.2: Passive efficiency of antenna

	L		R	
Freq(MHz)	Gain(dBi)	Efficiency(%)	Gain(dBi)	Efficiency(%)
2400	1.04	18.66	0.23	20.30
2410	1.28	19.45	0.27	19.55
2420	1.31	19.58	0.47	19.59
2430	1.54	19.9	0.72	19.13
2440	1.31	18.8	0.90	18.27
2450	1.1	18.37	0.96	18.41
2460	0.8	17.78	0.96	18.72
2470	0.83	17.33	1.08	18.82
2480	0.47	17.23	0.92	19.36

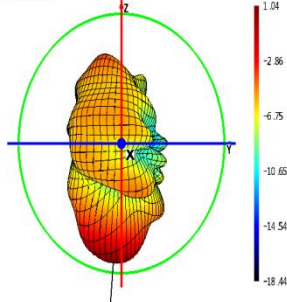
2.3: Passive pattern of BT antenna

L:

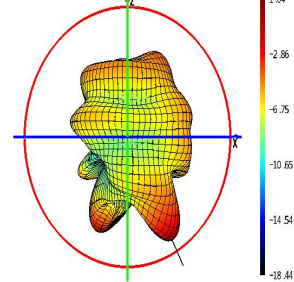
MAX:1.04dBi
MIN:-18.44dBi



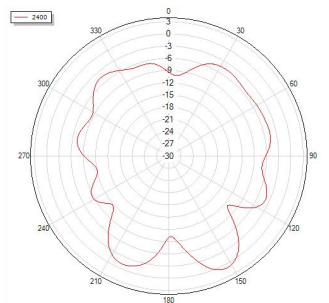
MAX:1.04dBi
MIN:-18.44dBi



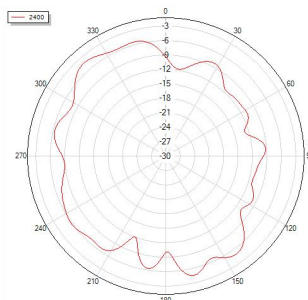
MAX:1.04dBi
MIN:-18.44dBi



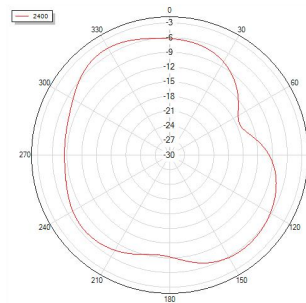
Phi=0 freq=2400MHz



Phi=90 freq=2400MHz

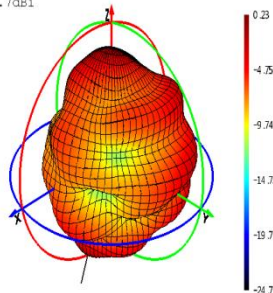


Theta=90 freq=2400MHz

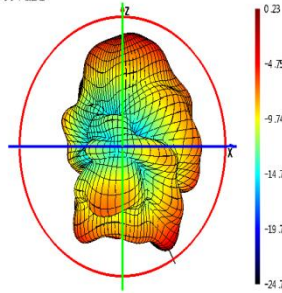


R:

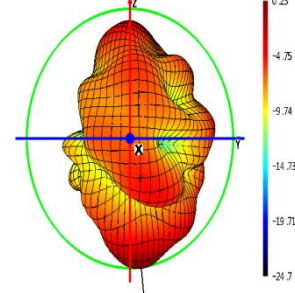
MAX:0.23dBi
MIN:-24.7dBi



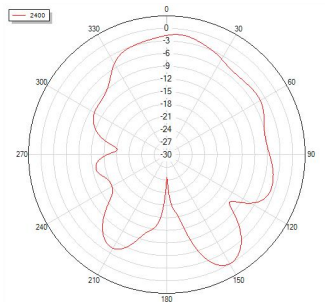
MAX:0.23dBi
MIN:-24.7dBi



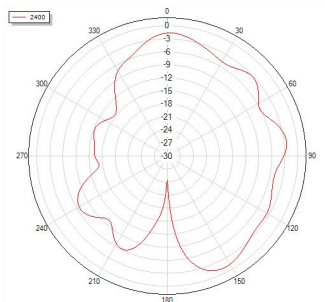
MAX:0.23dBi
MIN:-24.7dBi



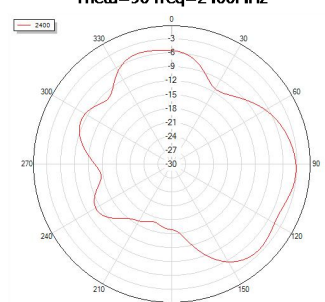
Phi=0 freq=2400MHz



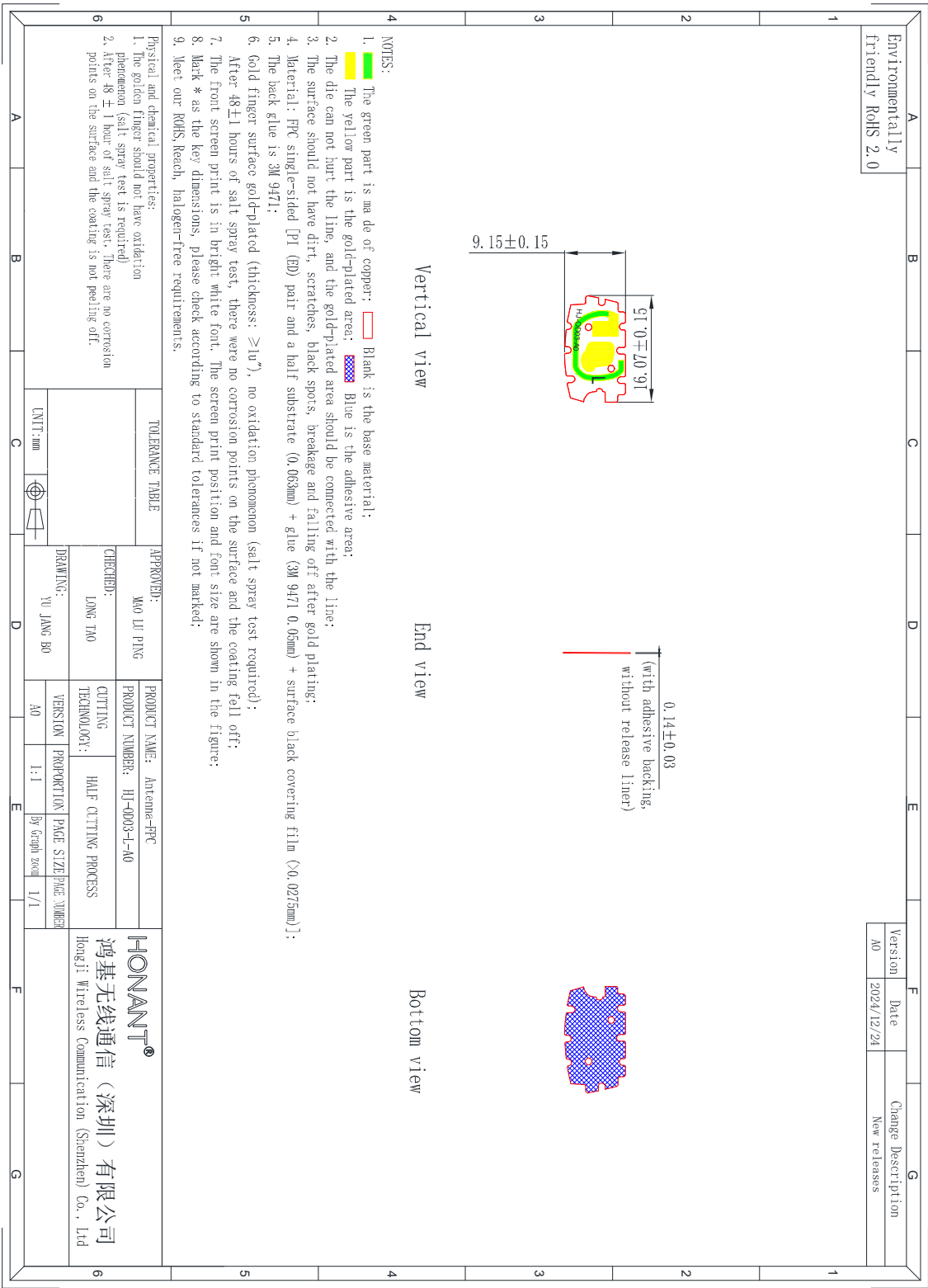
Phi=90 freq=2400MHz



Theta=90 freq=2400MHz



3: 3.1 Structural drawing-Left



3: 3.2 Structural drawing-Right

A		B	C	D	E	F		G	
Environmentally friendly RoHS 2.0							Version NO	Date 2024/12/24	Change Description New releases

<