

Shenzhen Yunding Communication Electronics Co., Ltd.

SHENZHEN

TEL:+86.0755-23073599

FAX:+860755-23097189

E-mail:wht0809@163.com

Acceptance
APPROVAL

client

..... ?

Product model

MODEL:

Z99-FD001-2.4G-1.13-L150MM-IPEX-1

product name

FPC Antenna

Product Description:

Customer ID

CUS PART NO.:

Date

2024.12.30

D A T E:

cloud top seal

Engineering Department	QA QC DEPARTMENT	Vocational work SALES DEPARTMENT
zhang Shengbing	aojn	ag

Customer Acknowledgment
and Signature

Engineering ENGINEERING DEPARTMENT	QA Q C DEPARTMENT	Purchase PURCHASING DEPARTMENT
amgRing	iXiaozhe	hang liaRn

Contact: 075523073599

※The acknowledgment document is prepared in triplicate, and your esteemed company is hereby acknowledged and signed.

K Approval in duplicate,please signed by your company.

Shenzhen Yunding Communication Electronics Co., Ltd.

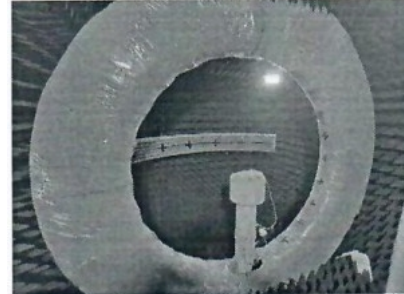
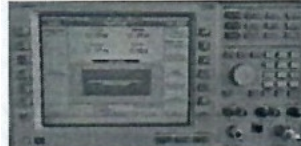
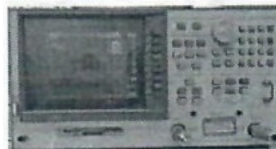
TEL:+860755-23073599

FAX:+860755-23097189

E-mail:wht0809@163.com

1. Test Items and Equipment

	Test item	Equipment
1. S11 parameters (S-parameter)	1. return loss 2. Voltage Standing Wave Ratio (VSWR)	Network analyzer: Agilent E5071B HP 8753D
2. Active testing	1. Transmit Power (TRP) 2. Tissue Imaging Sensitivity (TIS)	1. Dark chamber: ETS 7x4×3m (3D) Chamber ETS 5x3x3m (3D) Chamber 2. Comprehensive tester: Agilent 8960 E5515B×2 StarPoint SP6011 Cmw500
3. passive test (Passive)	1. Antenna gain 2. Antenna effect Efficiency	1. Dark chamber: ETS 7x4×3m (3D) Chamber ETS 5×3x3m (3D) Chamber 2. Ne- twork analyzer: Agilent E5071B HP 8753D



Shenzhen Yunding Communication Electronics Co., Ltd.

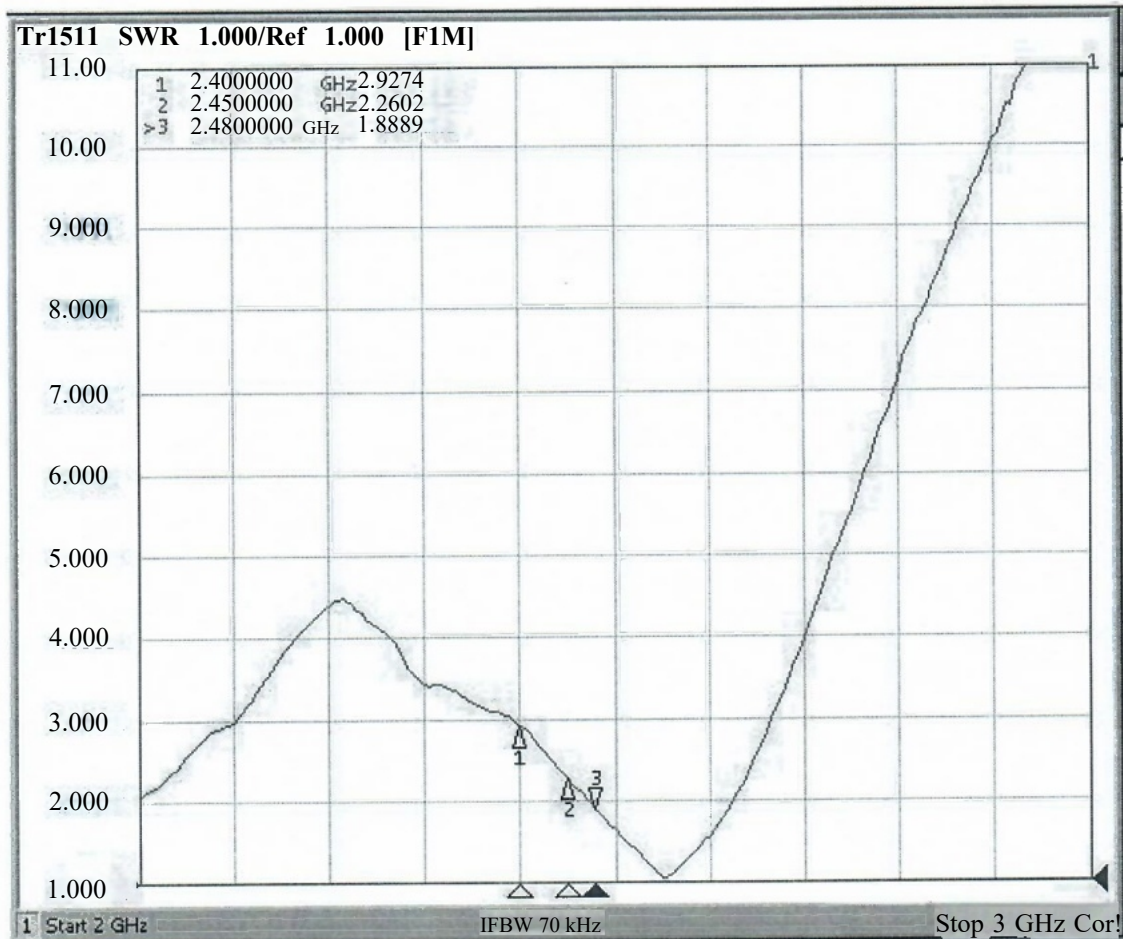
TEL:+860755-23073599

FAX:+860755-23097189

E-mail:wht0809@163.com

2. antenna performance

SWR



Shenzhen Yunding Communication Electronics Co., Ltd.

TEL:+860755-23073599

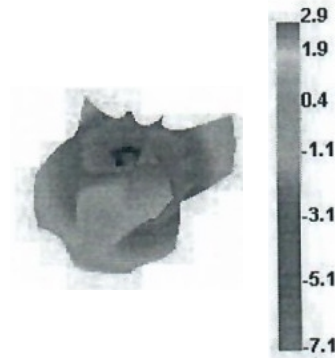
FAX:+860755-23097189

E-mail:wht0809@163.com

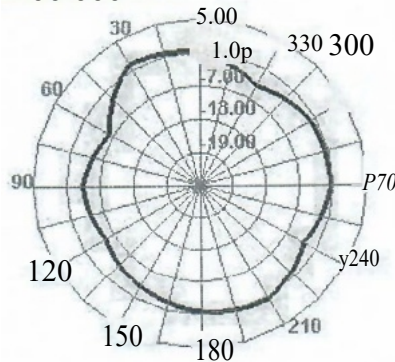
3. Antenna Efficiency and Gain

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	56.63	-2.47	2.95
2410	55.94	-2.52	2.83
2420	53.03	-2.75	2.63
2430	52.78	-2.78	2.6
2440	54.72	-2.62	2.76
2450	57.78	-2.38	2.96
2460	56.51	-2.48	2.7
2470	57.69	-2.39	2.62
2480	58.84	-2.3	2.53
2490	61.5	-2.11	2.54
2500	58.5	-2.33	2.11

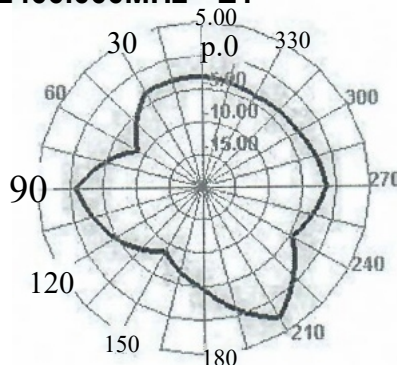
2400.000MHz



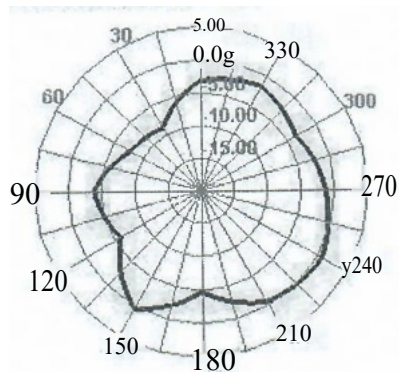
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



Shenzhen Yunding Communication Electronics Co., Ltd.

TEL:+860755-23073599

FAX:+860755-23097189

E-mail:wht0809@163.com

4. Antenna structure diagram:



Shenzhen Yunding Communication Electronics Co., Ltd.

TEL:+860755-23073599

FAX:+860755-23097189

E-mail:wht0809@163.com

Electrical appliance technical parameters

Electrical PROPERTIES		Electrical Specifications	
Frequency range	2400~2500MHz	Frequency Range	2400~2500MHz
Voltage standing-wave ratio	≤ 3.0	VSWR	≤ 3.0
Input impedance	50 Ω	Input Impedance	50 Ω
Maximum gain	2.96 DBI	Maximum gain	2.96 DBI
Maximum input power	50W	Maximum Input Power	50W
Mechanical INDICATORS		Mechanical Specifications	
Antenna color	Black	Antenna Color	BLACK
Interface form	IPEX generation	Input connector	IPEX 1
Antenna length	150mm	Cable length	150mm
Working temperature	-40℃~+85℃	Working Temperature	-40℃~+85℃
Working humidity	20~80%	Working Humidity	20~80%