



上海增信电子有限公司
Signal Plus Technology Co., Ltd.

规格承认书
SPECIFICATION FOR APPROVAL

日期
DATE: 2024.01.15

版本
REV.: B

客户
CUSTOMER:

客户料号
CUSTOMER P/N:

品名
PART NAME:

Internal PCB antenna 2.4G&5GHz 3dBi 1.37 white Low Loss Cable
L=220mm With RF CONN

供方料号
SUPPLIER P/N:

6289F00005

送样日期Date:

送样数量Q'TY:

Pcs

客户确认CUSTOMER APPROVED BY		
核准 Approved by	审核 Checked by	确认 Confirmed by

供方确认SUPPLIER SIGNATURE		
核准 Approved by	审核 Checked by	拟制 Prepared by
Andy		Cindy

ZX-QT-RD-0011-A1

Add:上海市徐汇区桂箐路69号30栋603室 Tel:021-54266190 Fax:021-54266191

Revision History

Revision	Note	Date
V1	New Issue	2023.12.20
V2	Update	2024.01.12

Data Preview

2.4&5G-1:

Freq.(MHz)	2400	2450	2500	5150	5550	5850
VSWR	1.36	1.20	1.33	1.30	1.27	1.55
Gain(dBi)	3.21	3.25	3.19	3.31	3.35	3.16
Eff.%	74.6	74.5	75.6	77.4	75.9	75.2

2.4&5G-2:

Freq.(MHz)	2400	2450	2500	5150	5550	5850
VSWR	1.47	1.19	1.36	1.33	1.33	1.64
Gain(dBi)	3.15	3.32	3.28	3.09	3.14	3.32
Eff.%	75.3	79.1	76.6	75.3	77.9	76.4

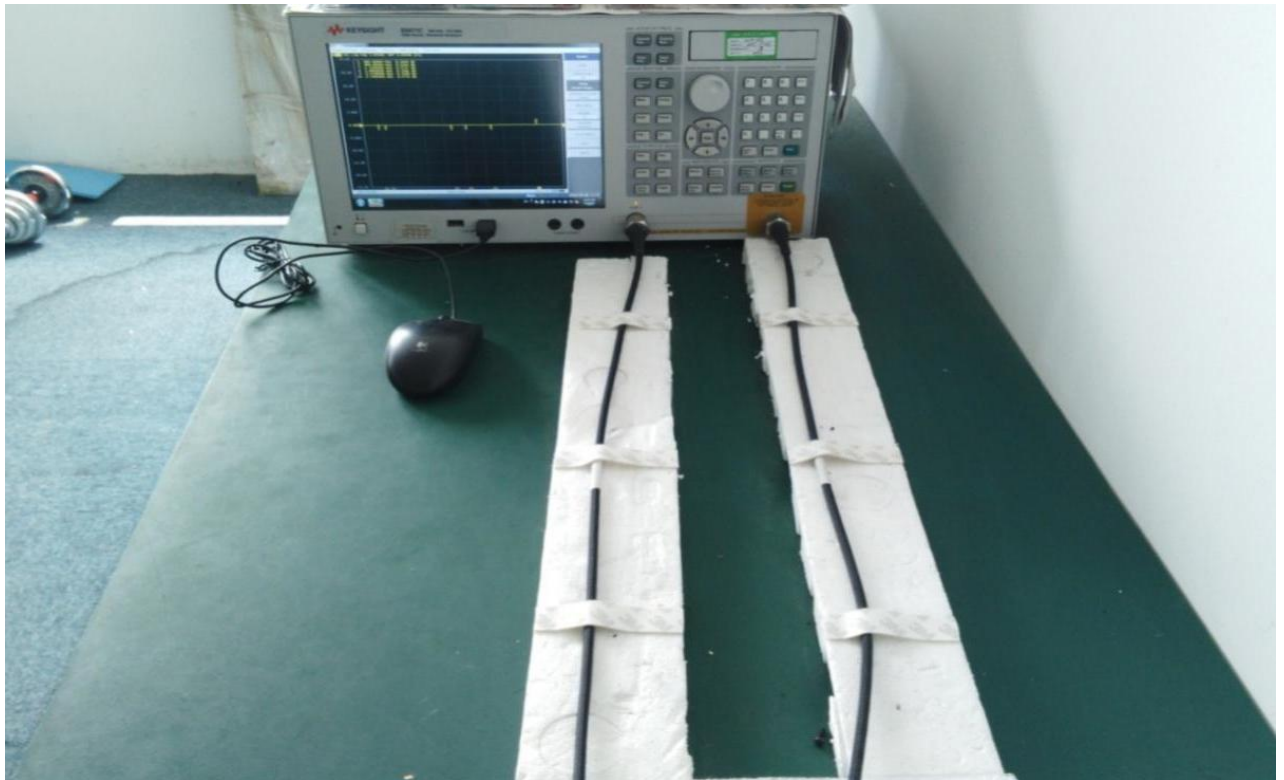
S21-Ant1,Ant2

Freq.(MHz)	2400	2450	2500	5150	5550	5850
Isolation(dB)	-34.55	-30.41	-27.21	-32.81	-41.46	-31.82

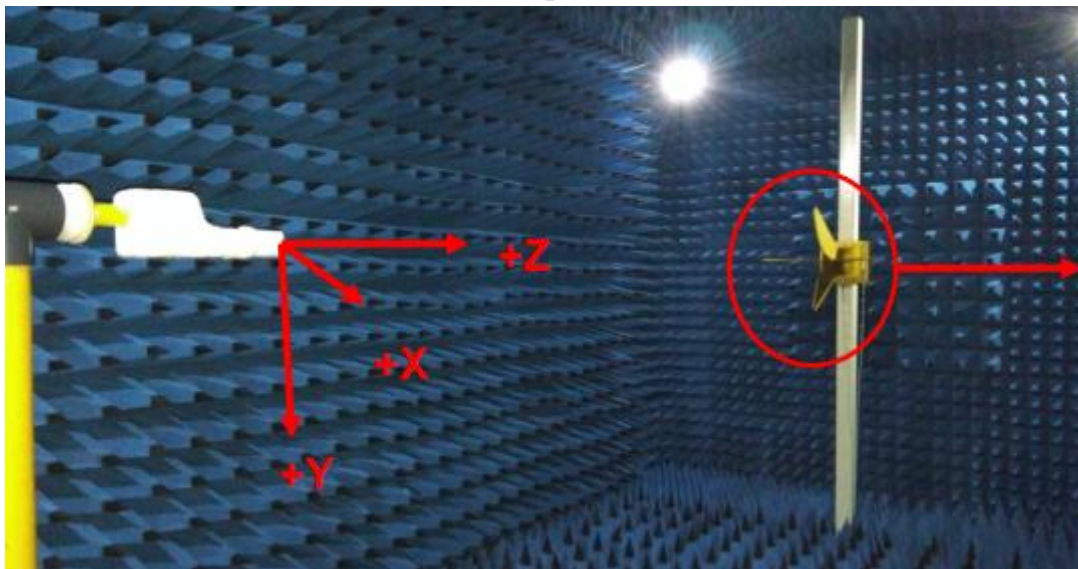
1. RF Fixture Experiment

1.1 Test Setup

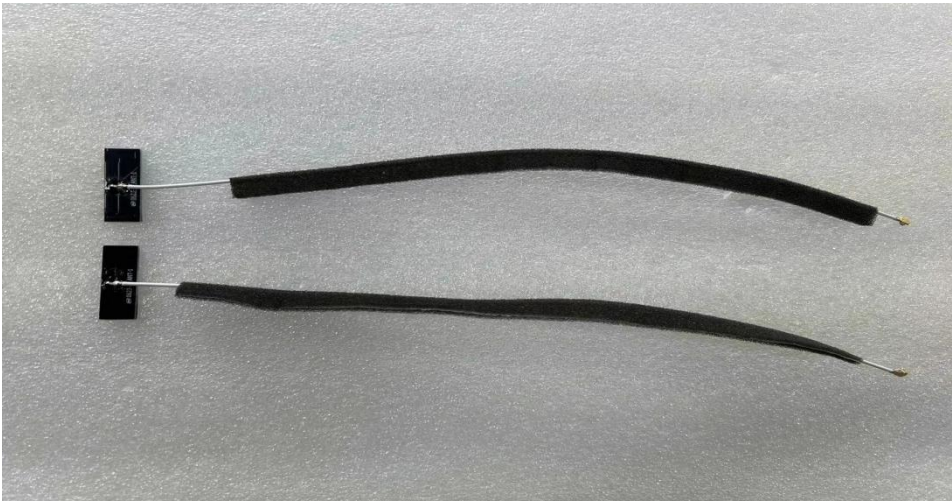
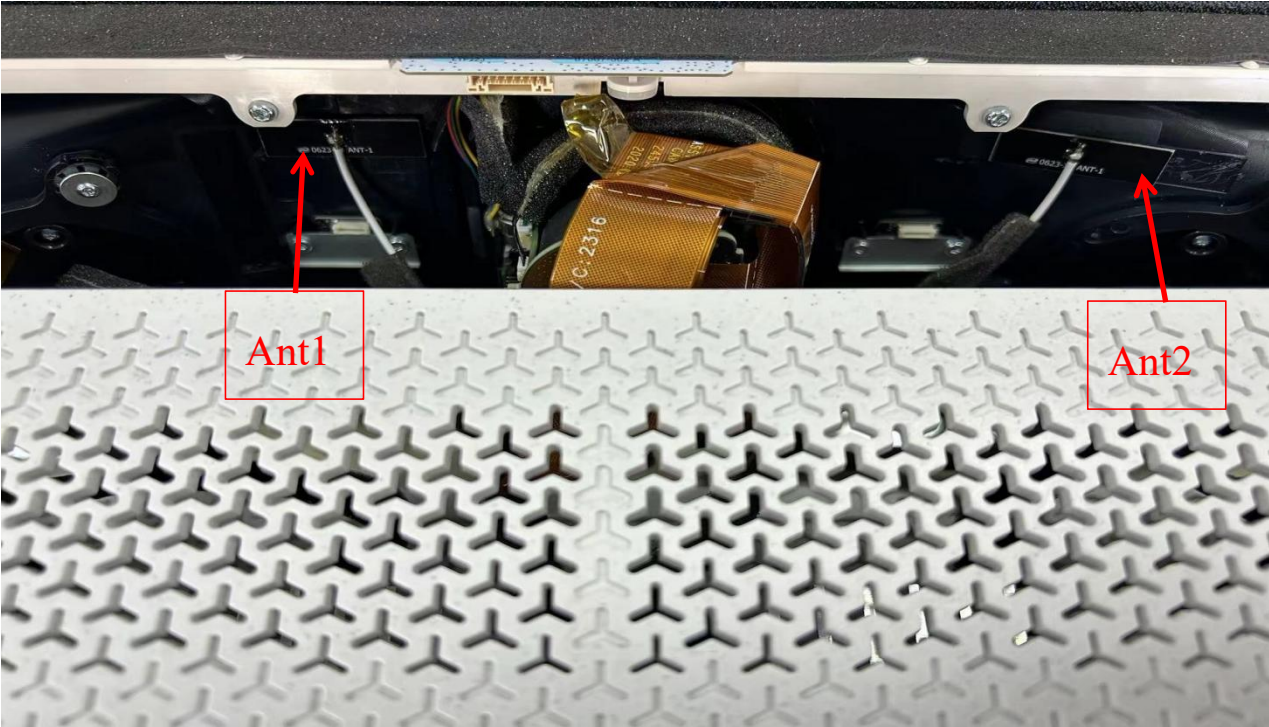
1.1.1 VNA Test Setup



1.1.2 Anechoic Chamber Test Setup



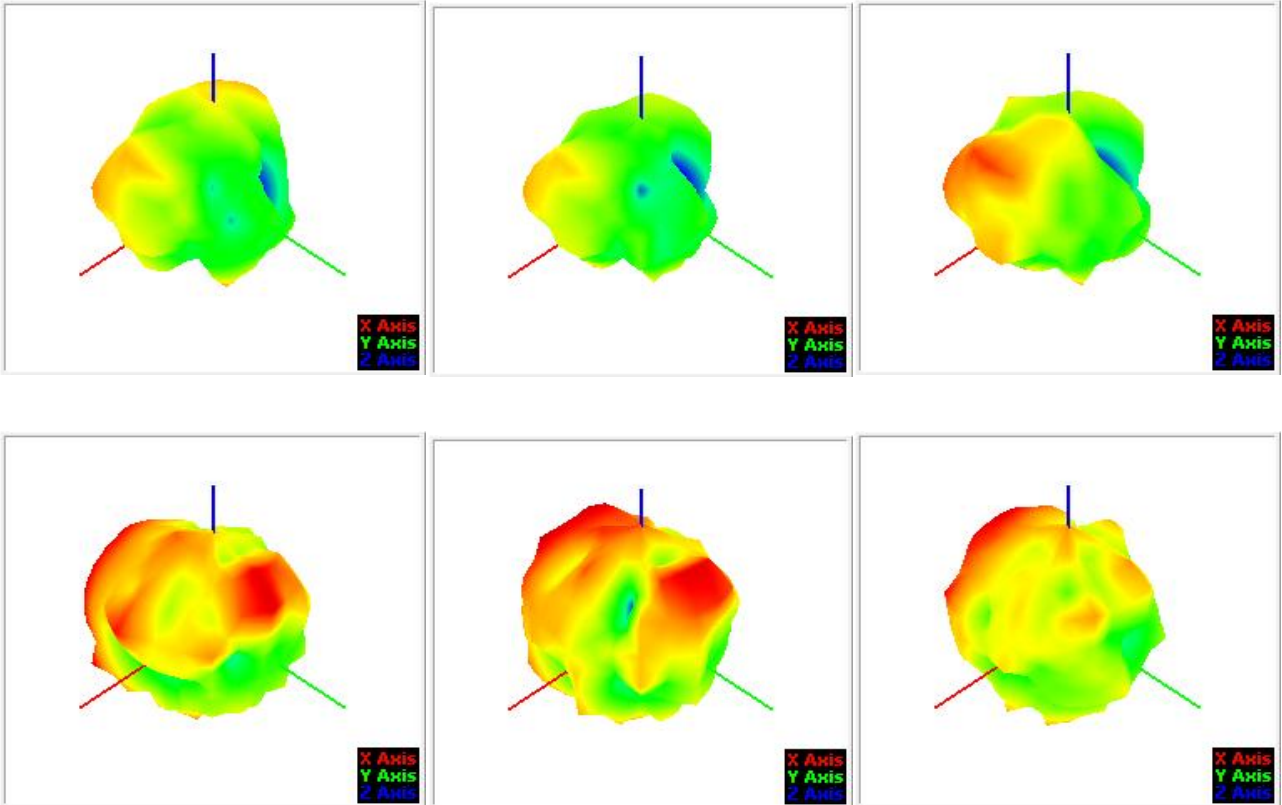
2. Antenna Solution



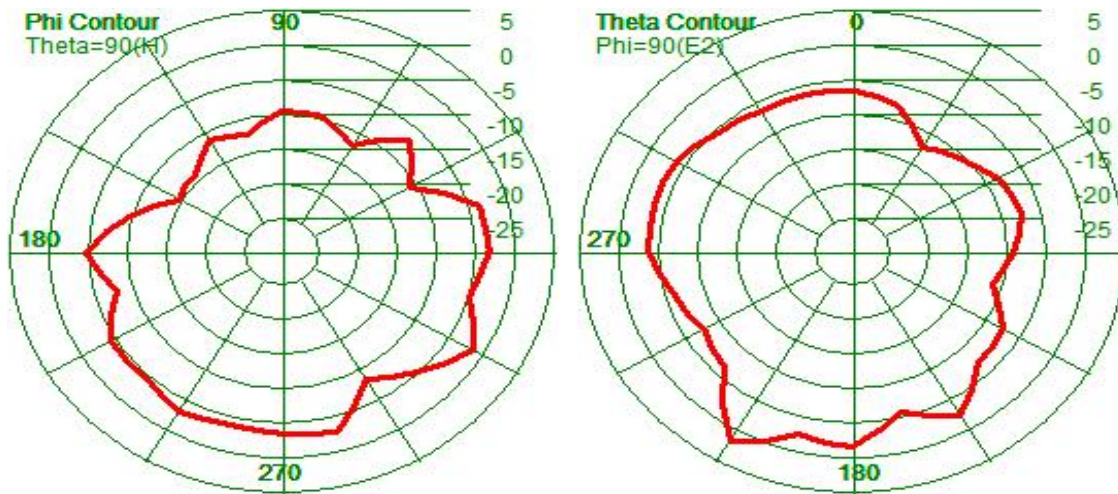
S11(2.4G&5G-Ant1)



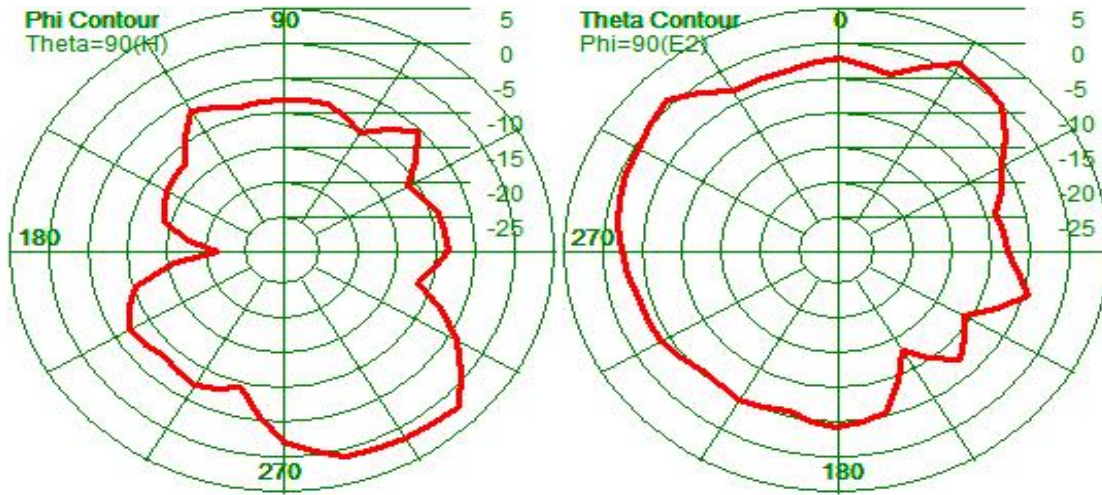
Radiation patterns:3D(2400/2450/2500/5150/5550/5850Mhz)



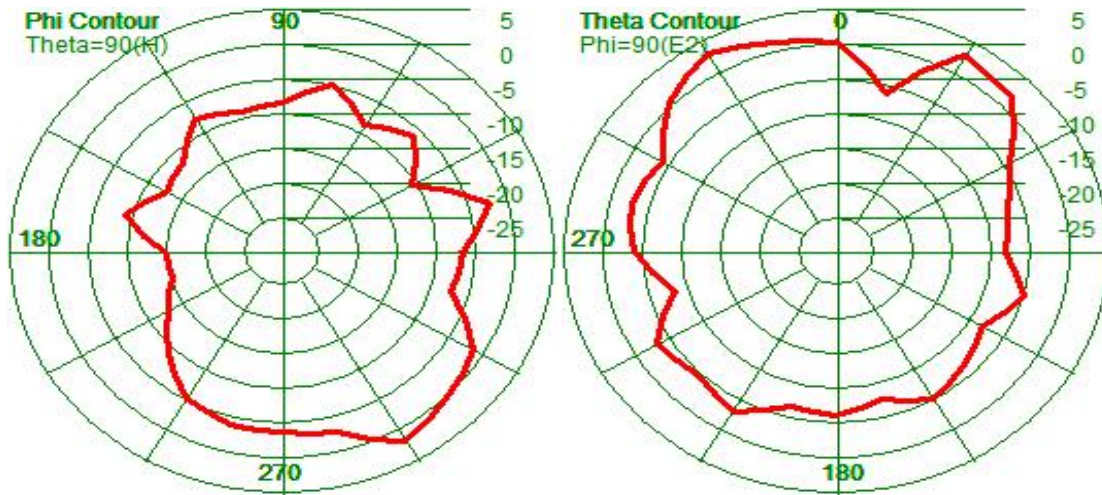
Radiation patterns:2D :2450MHz



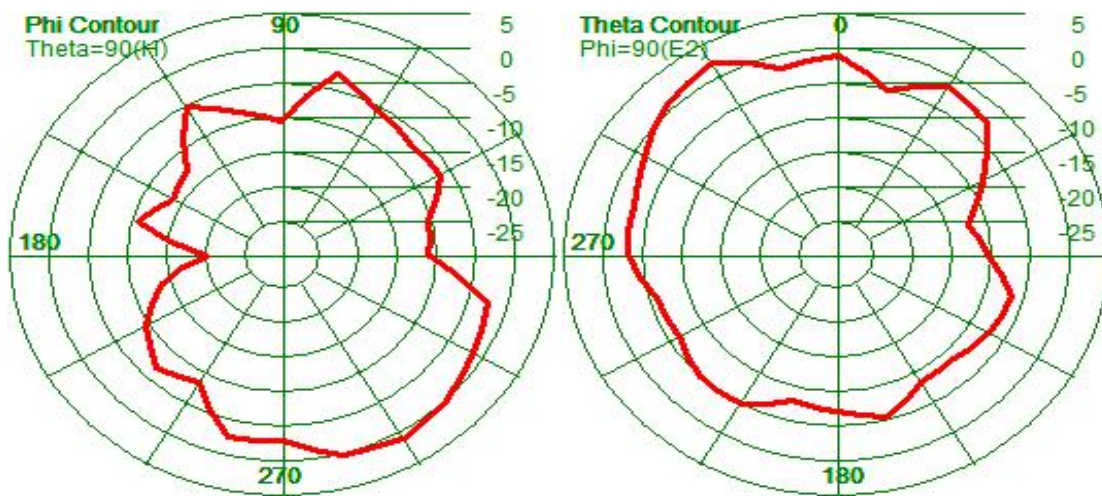
Radiation patterns:2D :5150MHz



Radiation patterns:2D :5550MHz



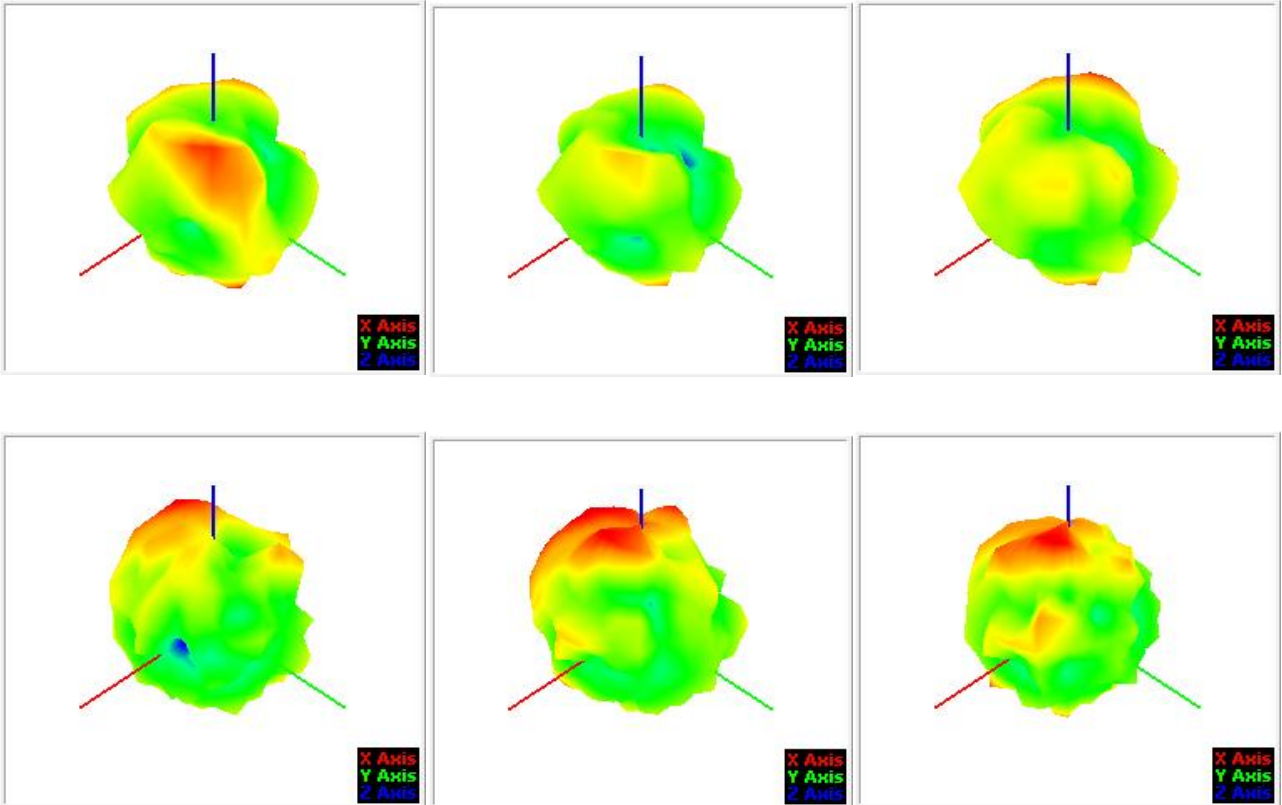
Radiation patterns:2D :5850MHz



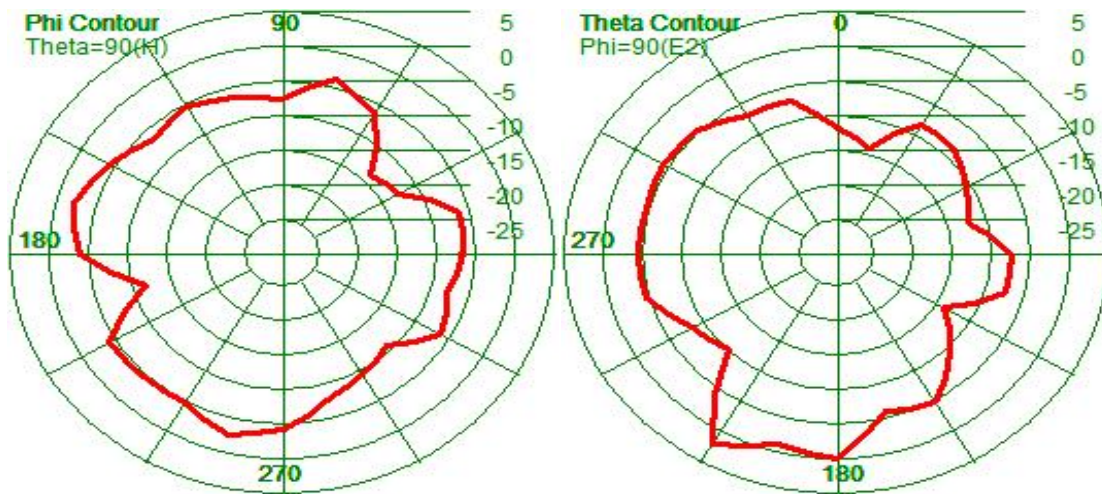
S11(2.4G&5G-Ant2)



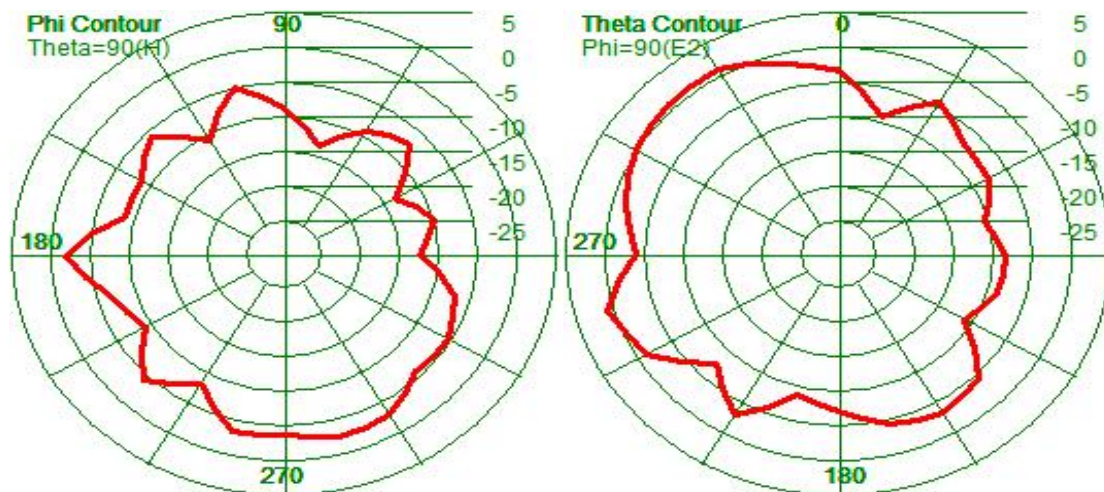
Radiation patterns:3D(2400/2450/2500/5150/5550/5850Mhz)



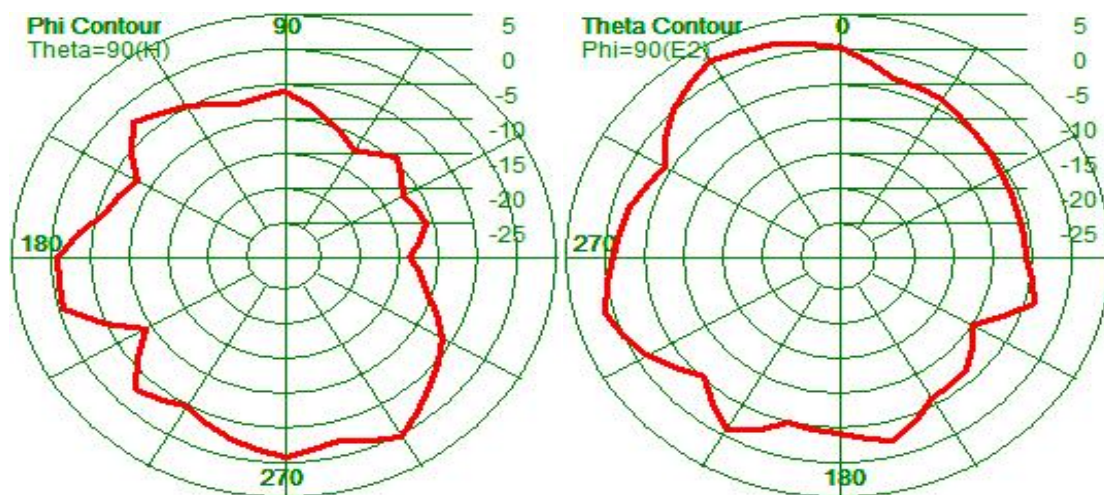
Radiation patterns:2D :2450MHz



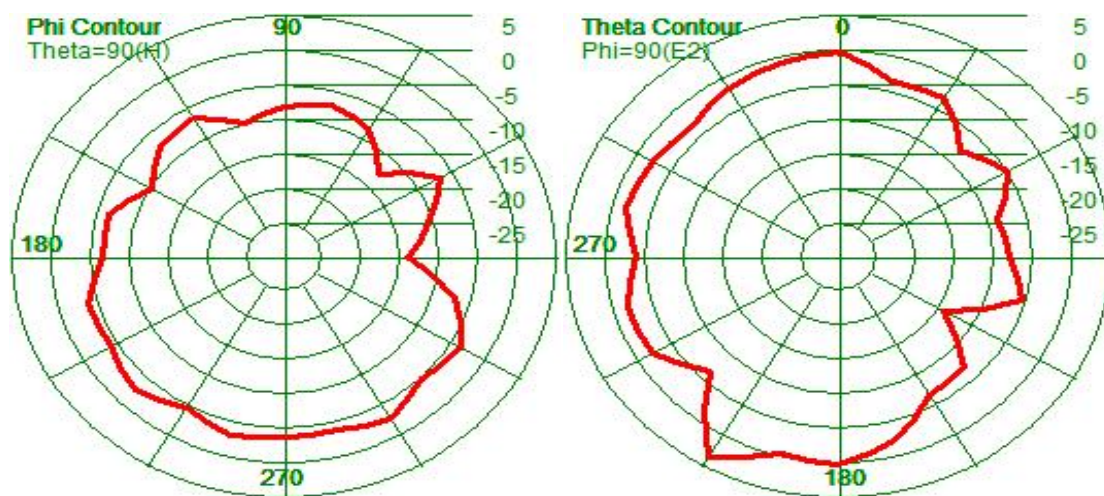
Radiation patterns:2D :5150MHz



Radiation patterns:2D :5550MHz



Radiation patterns:2D :5850MHz

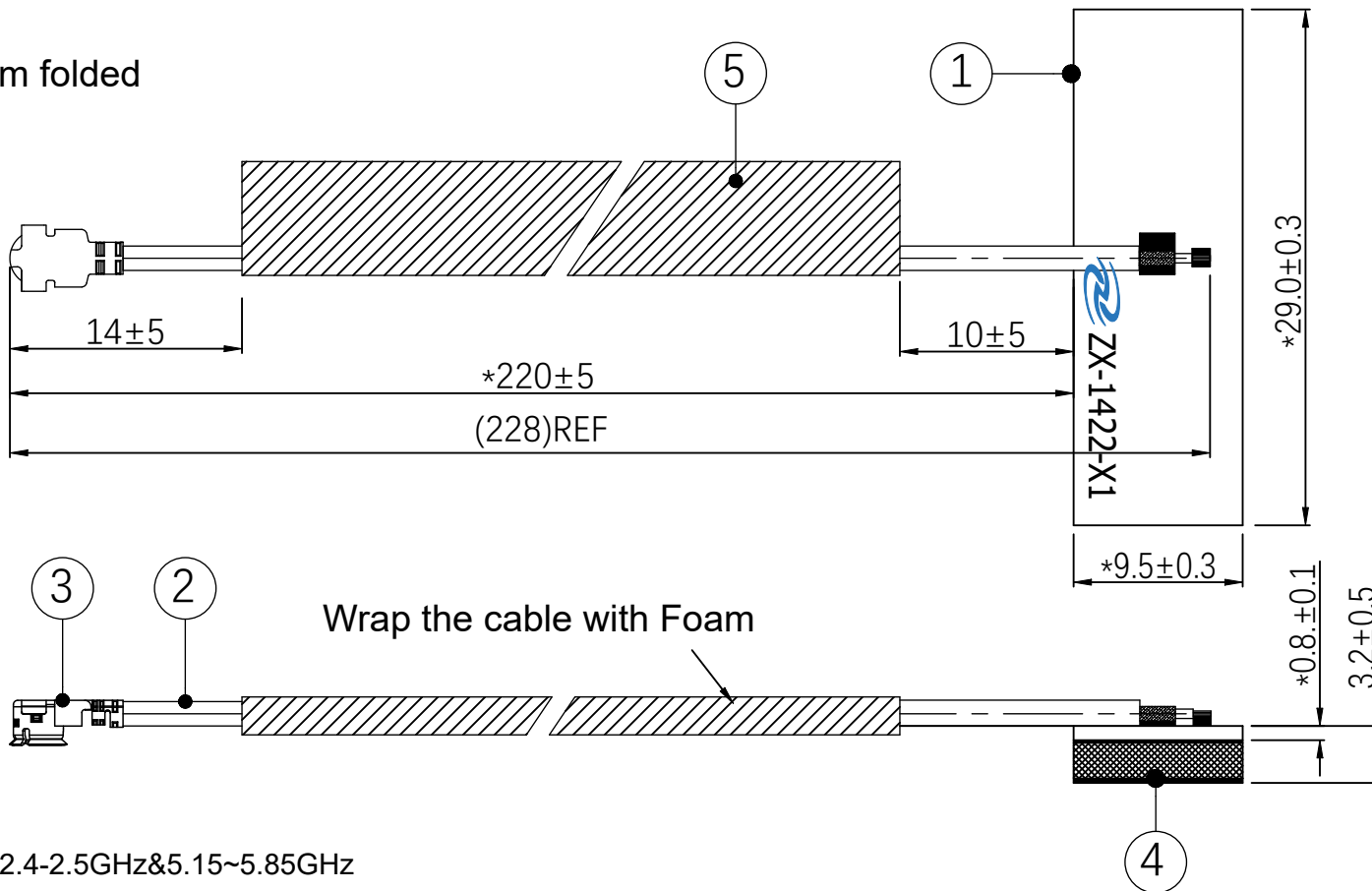


S21-1&2



REV	DATE	DESCRIPTION
X1	12/22-2023	New Issue
X2	01/15-2024	Change PCB structure

Schematic of Foam folded



Specification:

Frequency Range:2.4-2.5GHz&5.15~5.85GHz

Impedance:50 Ohm


VSWR:2.0 MAX(with housing)

Notes:

- 1.These Products are in conformity with ROHS 2.0
- 2.Dimensions with "*" are Important,would be checked strictly.

5	Foam	Foam,Black,T=2mm,with one-side adhesive	1	
4	Adhesive Sponge	EVA,T=2mm&3M 9888T(Double faced)	1	
3	Connector	RF CONN,Gold Plated	1	
2	Cable	∅1.37mm Cable,Low Loss,White,50Ω	1	
1	PCB	FR4;Black oil on surface	1	501-1-1422-X1
NO	DESCRIPTION		Q'TY	REMARK

CUSTOMER'S SINGATURE	XX.	±3.0	APPROVED	CUSTOMER:		
	XX.	±1.0		PART NO:		
	X.	±0.5	CHECKED	PART NAME: Antenna 2.4&5GHz		
	.X	±0.3		Z&X P/NO: 6289F00005		
	.XX	±0.2	DRAWING	REV	UNIT	FILE:
⊕	≡	X2		mm	SHEET: 1/1	

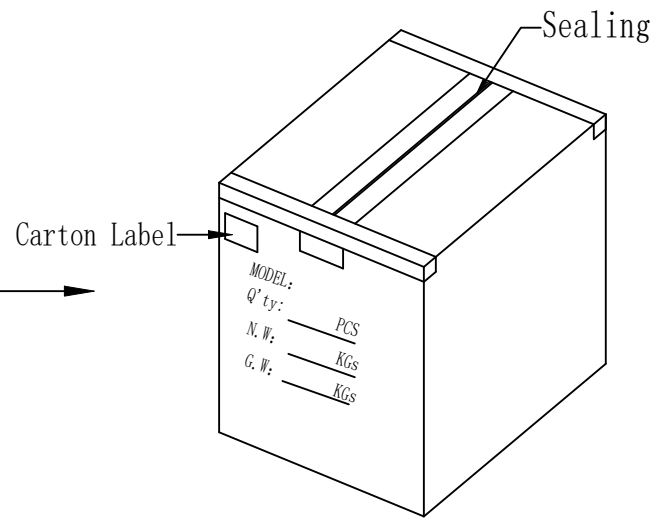
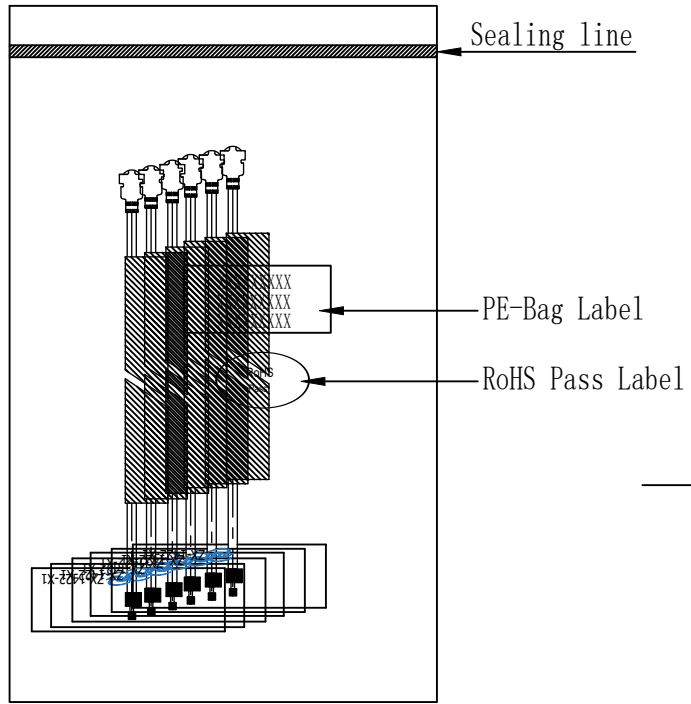
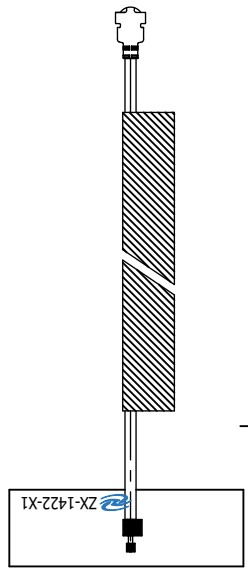
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REV	DATE	DESCRIPTION
X1	12/22-2023	NEW DRAWING
X2	01/15-2024	Packing updated

Step 1: Checking

Step 2: PE-Bag Packaging

Step 3: Packing



1) Product checked

2) 50PCS/PE-Bag

3) Packing, 3000pcs/carton

CUSTOMER'S SINGATURE

XX.	±3.0	APPROVED	CUSTOMER:		
XX.	±1.0		PART NO:		
X.	±0.5	CHECKED	PART NAME: Packaging Specification		
.X	±0.3		Z&X P/NO: 6289F00005		
.XX	±0.2	DRAWING	REV	UNIT	FILE:
⊕	↶		X2	mm	SHEET: 1/1

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