

东莞市思博通讯有限公司

Dongguan Sibocommunication Co., Ltd

规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2026/05/16
编号 File No	26051601
版本 Revision	2.0

客 户 深圳阿尔木创新科技有限公司

CUSTOMER: _____

客户料号 XD-FL-00856

品 名
PART NAME: 900MHz-2.4G Antenna

供方料号
SUPPLIER NO: A-EM-P01

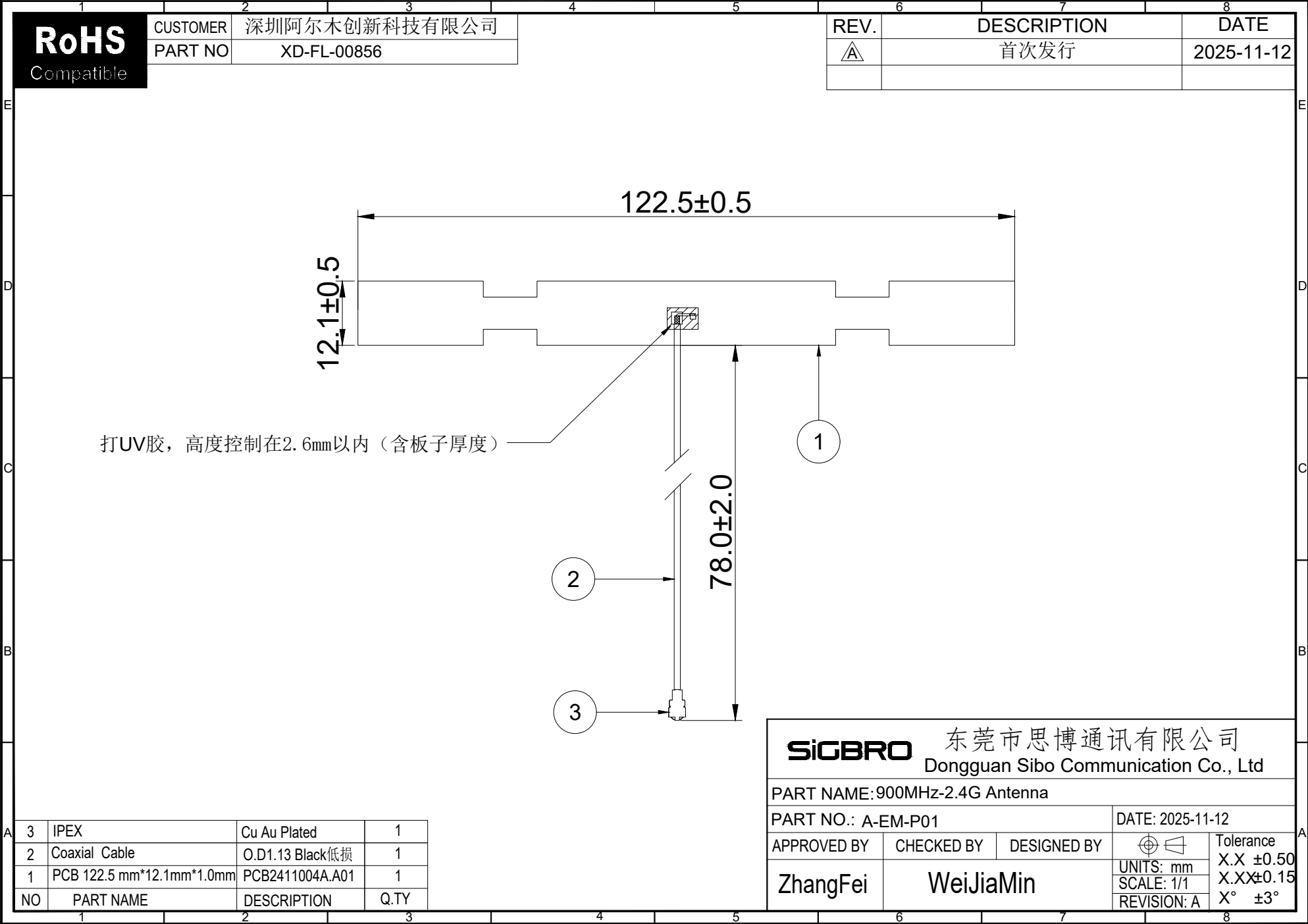
送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR
供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
ZHANG	ZHANG	WEI

SIBO-GC-WI-A01

承认书项目表

NO.	内 容 (Contents)	页 数 (Number of Page)	页 码 (Page Code)
1	承认书封面 (Spec Cover)	1	1
2	承认书项目表 (Spec Item)	1	2
3	工程成品图 (Drawing)	1	3
4	天线规格 (Antenna Specification)	1	4
5	S参数测试 (S Parameter)	1	5
6	无源测试 (Passive Test)	2	6 ~ 7
7	天线辐射场型 (Antenna Radiation Pattern)	3	8 ~ 10
8	天线图片 (Antenna Profile)	1	11
9	RoHS报告 (RoHS Test Report)	**	**
10	N/A	N/A	N/A
11	-	-	-
12	-	-	-



RoHS
Compatible

CUSTOMER	深圳阿尔木创新科技有限公司
PART NO	XD-FL-00856

REV.	DESCRIPTION	DATE
△	首次发行	2025-11-12

3	IPEX	Cu Au Plated	1
2	Coaxial Cable	O.D1.13 Black低损	1
1	PCB 122.5 mm*12.1mm*1.0mm	PCB2411004A.A01	1
NO	PART NAME	DESCRIPTION	Q.TY

SIGBRO 东莞市思博通讯有限公司 Dongguan Sibo Communication Co., Ltd			
PART NAME: 900MHz-2.4G Antenna			
PART NO.: A-EM-P01			DATE: 2025-11-12
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
ZhangFei	WeiJiaMin		UNITS: mm SCALE: 1/1 REVISION: A

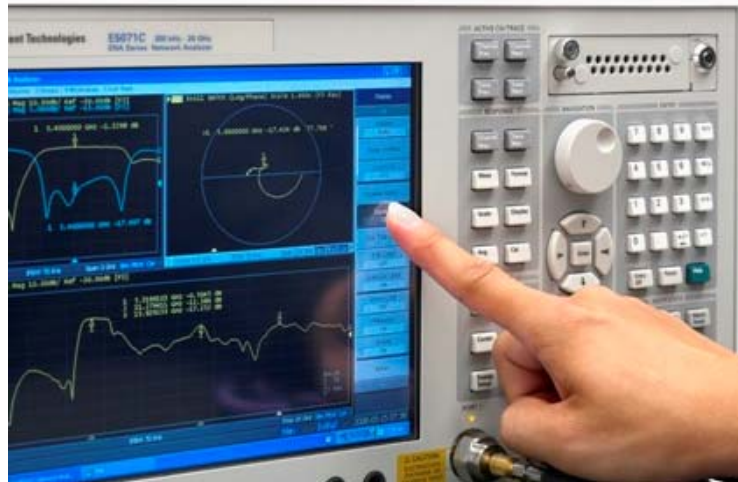
天线规格

Antenna Specification

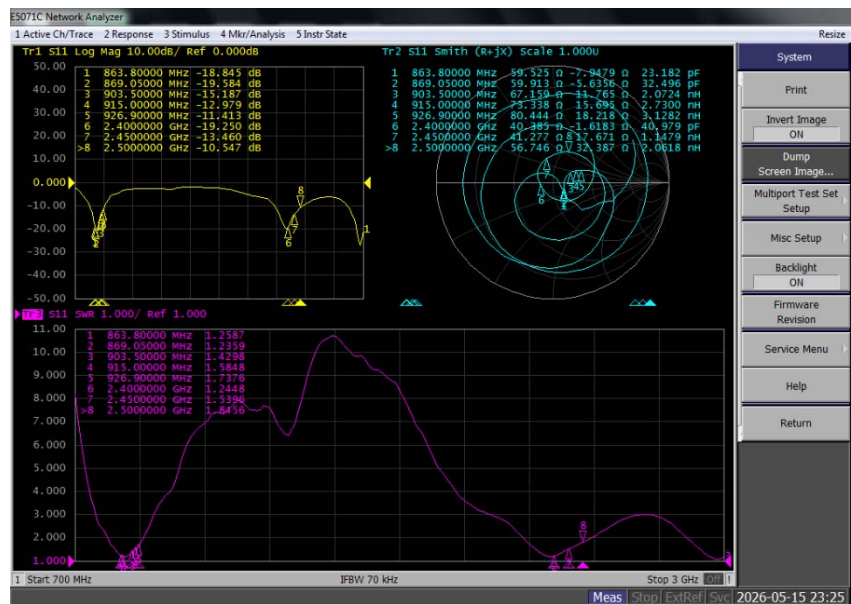
Electrical Properties	
Frequency	900MHz/2.4GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤2.0(Max)
Return Loss	≤-10(Max)
Radiation	Omni-directional
Gain (Peak)	≤4.16dBi(Max)
Polarization	Linear
Connector	IPEX-1代
Physical Properties	
Antenna Material	PCB
Cable Type	O.D 1.13低损
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	black

Antenna Performance Test

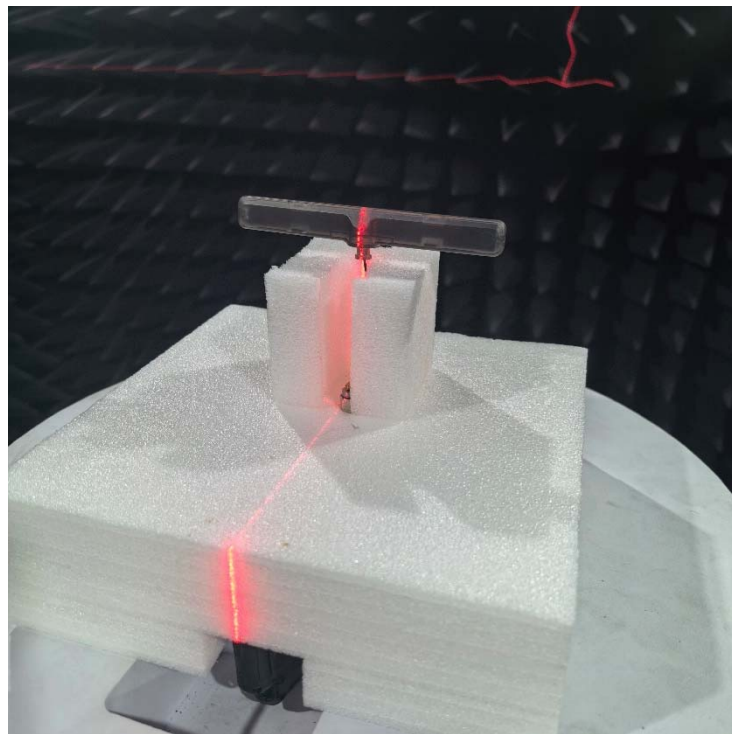
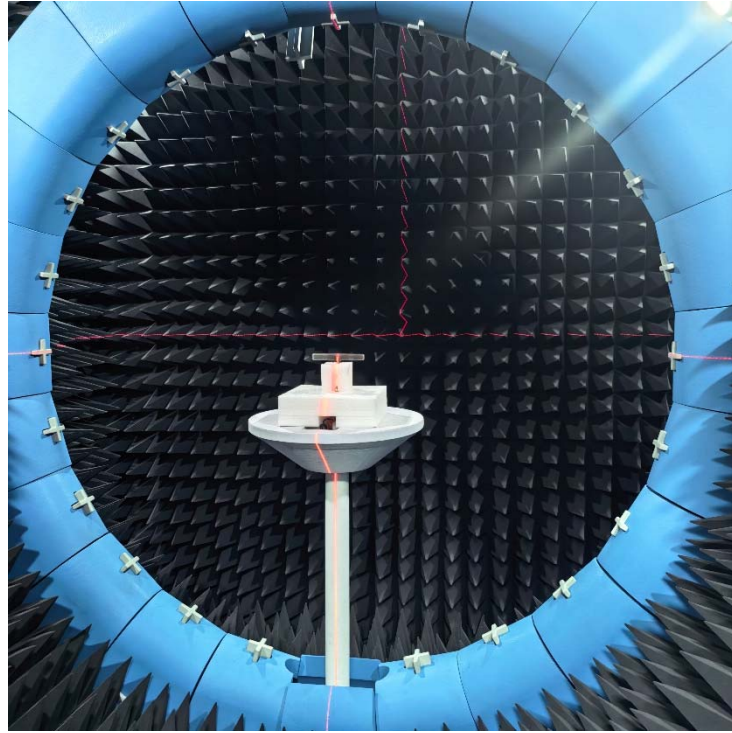
**Agilent
E5071C**



**S
Parameter
Test //
WIFI**



Antenna Passive Test

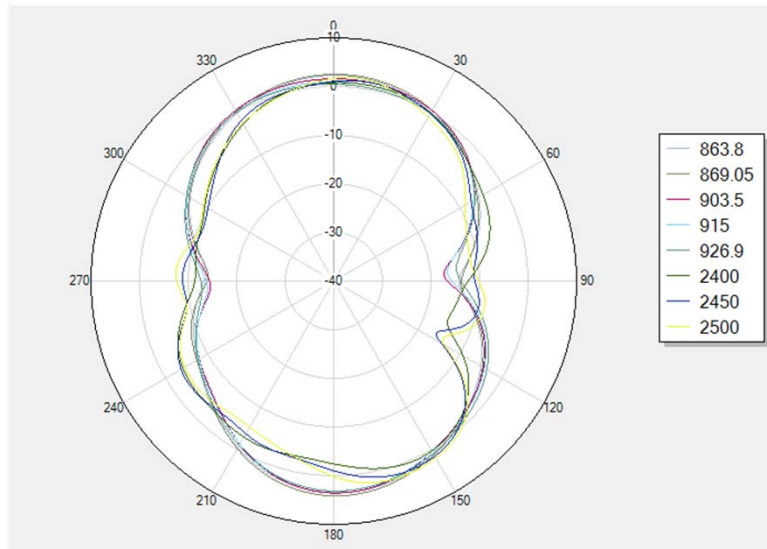


SIBO-GC-WI-A01

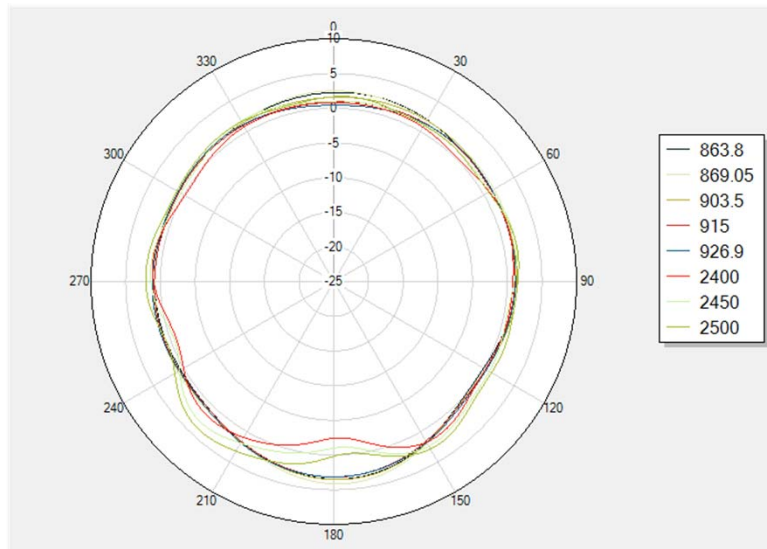
Passive Test For Antenna (863.8MHz/2500MHz)			
Freq (MHz)	Gain (dBi)	Effi (dB)	Effi (%)
863.8	3.51	-0.57	87.7
869.05	4.16	-0.37	91.83
903.5	3.57	-0.48	89.54
915	3.18	-0.65	86.1
926.9	3.16	-0.53	88.51
2400	1.82	-1.47	71.29
2450	3.05	-1.07	78.16
2500	4.08	-0.9	81.28

Antenna Radiation Pattern

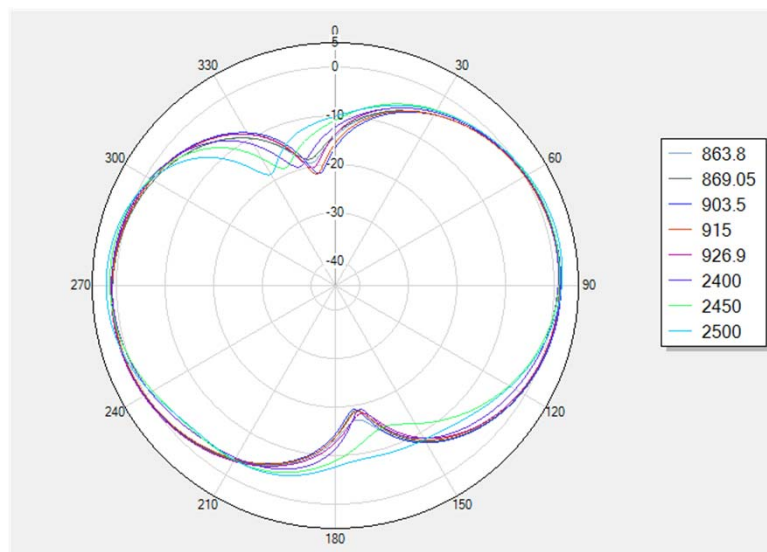
Phi 0 2D



Phi 90 2D

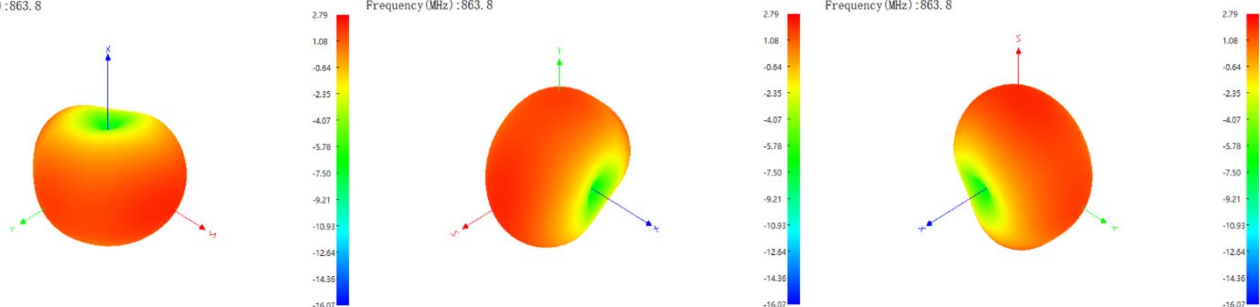


Theta 90 2D



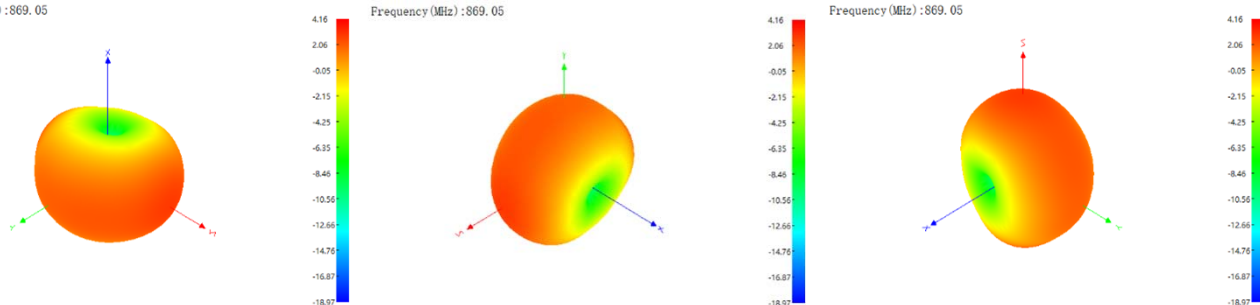
3D: 863.8MHz

Frequency (MHz) : 863.8



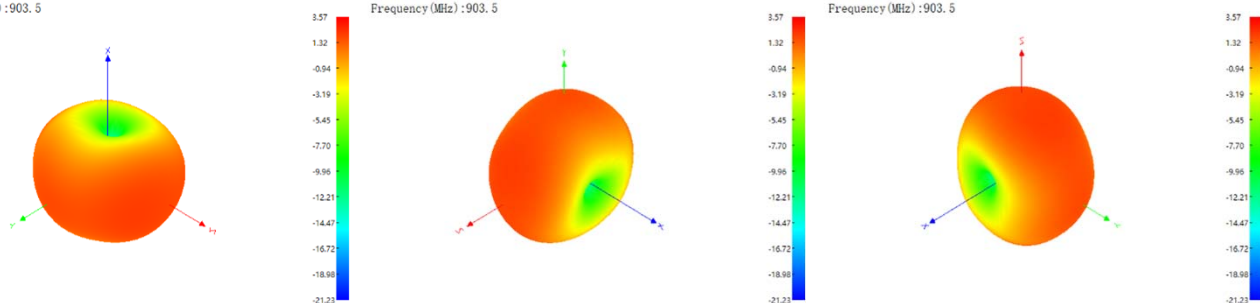
3D: 869.05MHz

Frequency (MHz) : 869.05



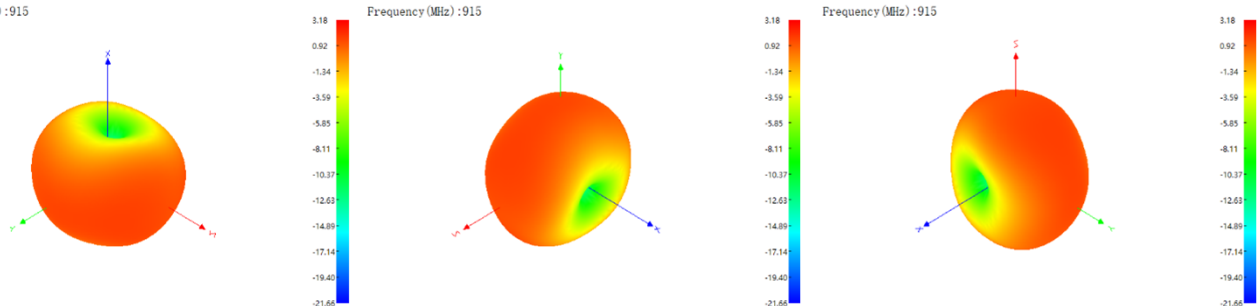
3D: 903.5MHz

Frequency (MHz) : 903.5



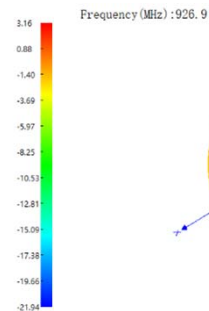
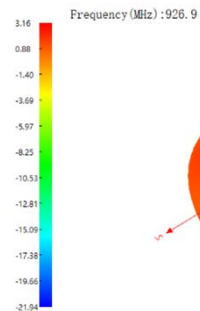
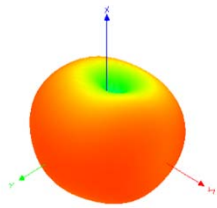
3D: 915MHz

Frequency (MHz) : 915



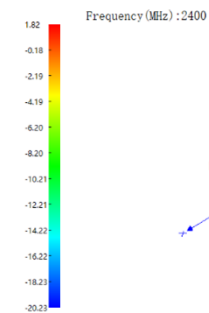
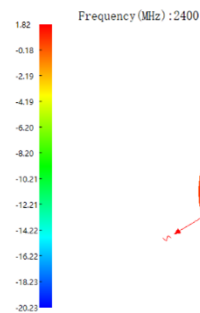
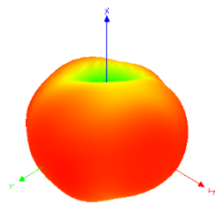
3D: 926.9MHz

Frequency (MHz) : 926.9



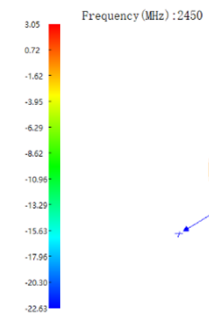
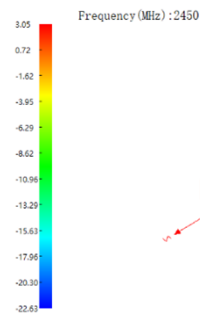
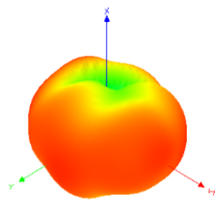
3D: 2400MHz

Frequency (MHz) : 2400



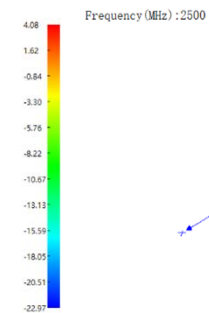
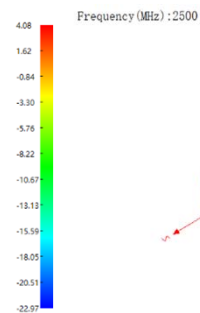
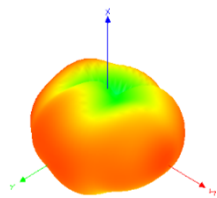
3D: 2450MHz

Frequency (MHz) : 2450



3D: 2500MHz

Frequency (MHz) : 2500



Antenna Photo



SIBO-GC-WI-A01