

承 认 书

APPROVAL SHEET

客户名称

CUSTOMER NAME: Zhuhai Raysharp Technology Co.,Ltd.

产品名称

PRODUCT NAME: External Antenna 900-930MHZ Large SMA Male
Female Needle Dragon Yuan Sword Black Antenna

客户料号

CUSTOMER P/N: 1015020023

优比电子料号

Youbi P/N: UB02S177B2D1129A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2023/7/26	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2023-7-26

Content

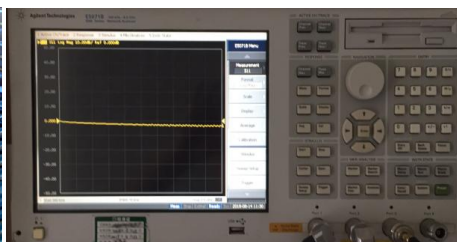
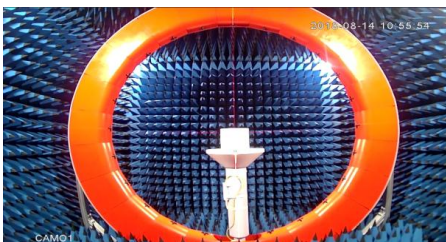
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification

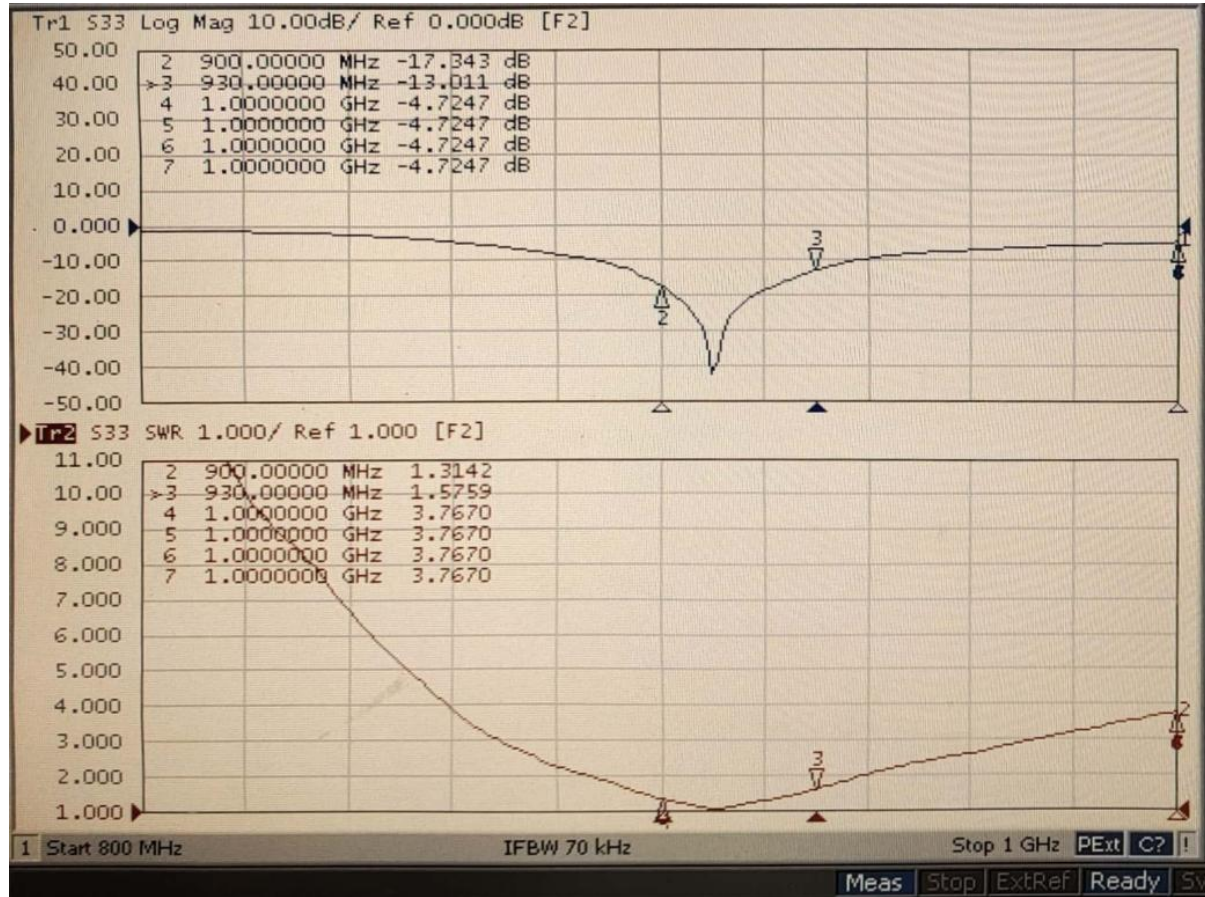
Characteristics	Specifications	Unit
Outline Dimensions	Ø12.89x200	mm
Frequency	900-930	MHz
Impedance	50	Ω
VSWR	≤ 1.92	
Polarization	Linear Polarization	
Gain	2±0.5	dBi
Efficiency	≥ 60	%
Connector Type	SMA Male (center pin)	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)

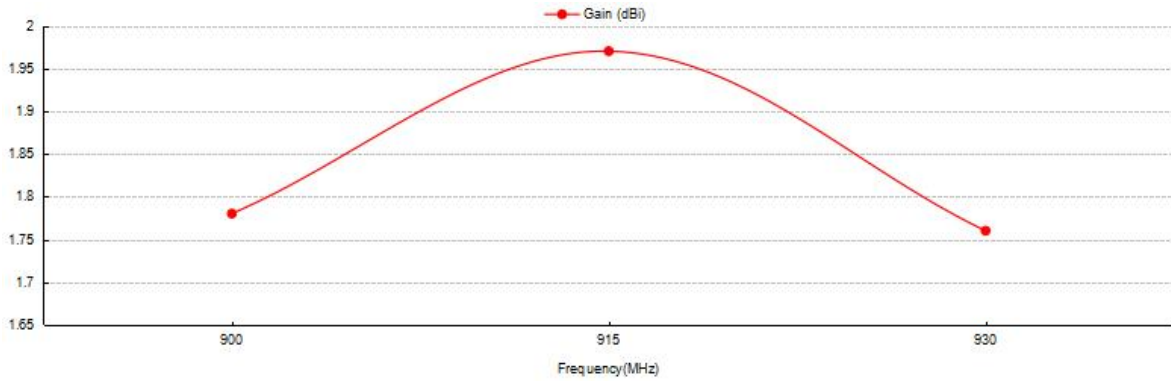
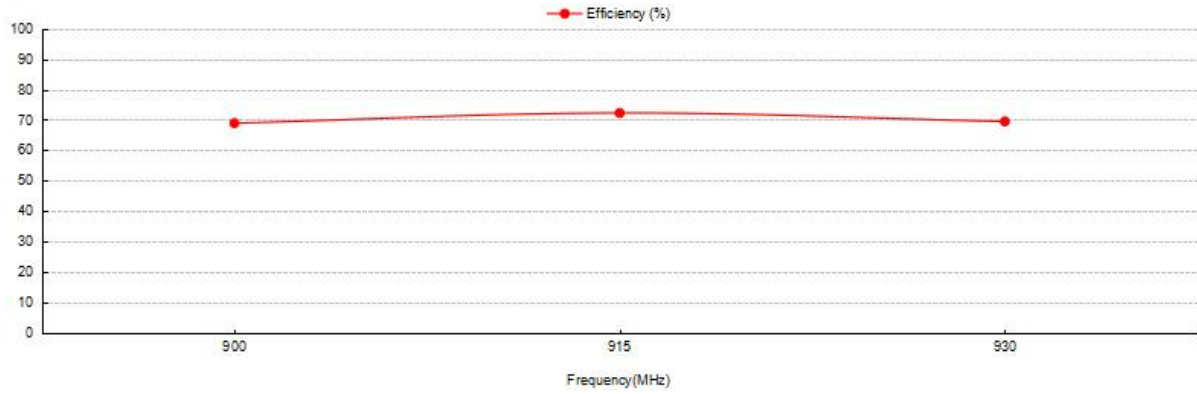


3. S Parameter



Frequency (MHz)	Return Loss (dB)	VSWR
900	-17.343	1.314
930	-13.011	1.575

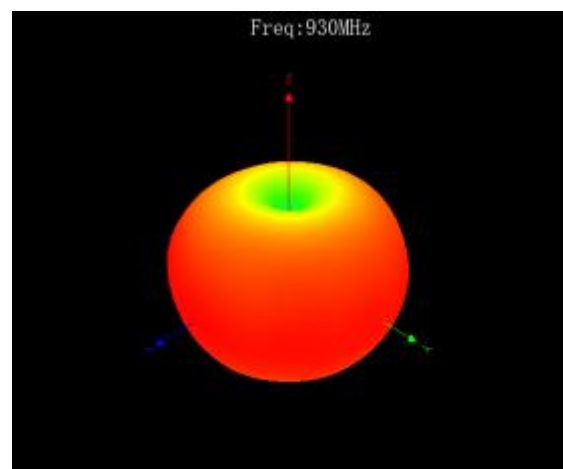
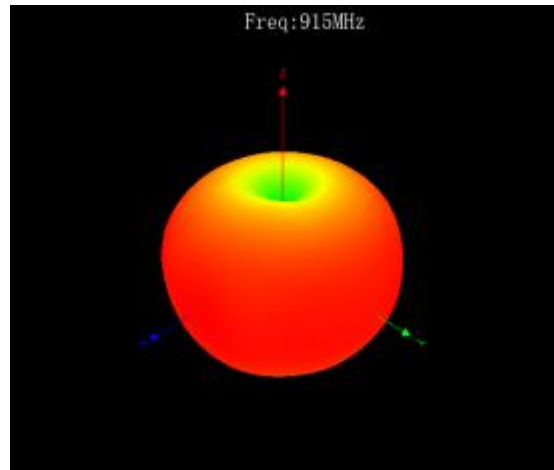
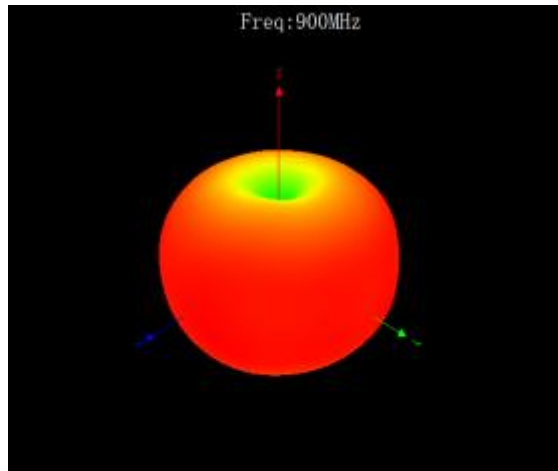
4. Efficiency and Gain



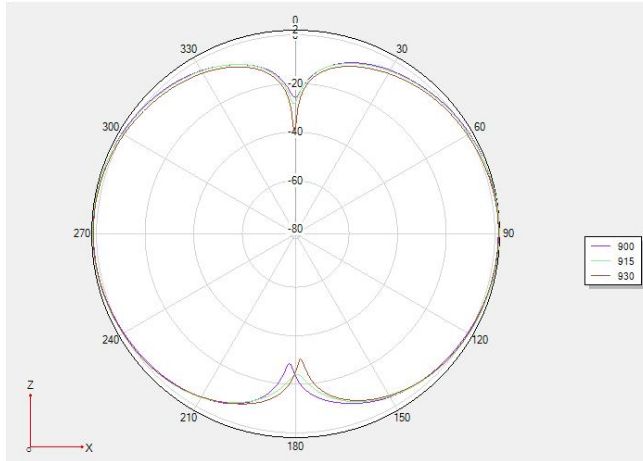
Frequency (MHz)	900	915	930
Gain (dBi)	1.78	1.97	1.76
Efficiency (%)	68.89	72.25	69.43

5. Radiation Pattern

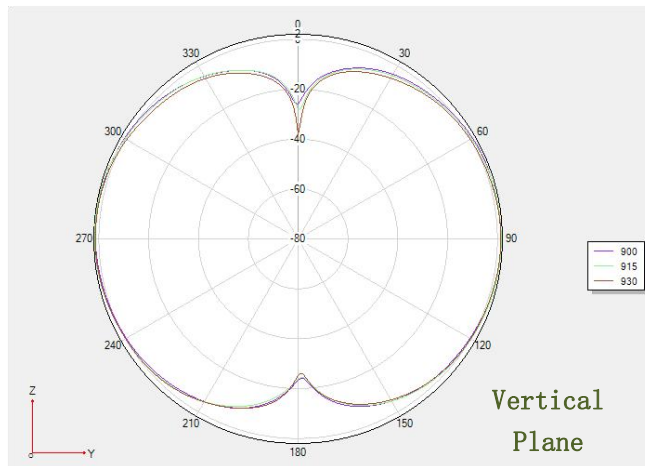
5-1 Antenna 3D Radiation Pattern



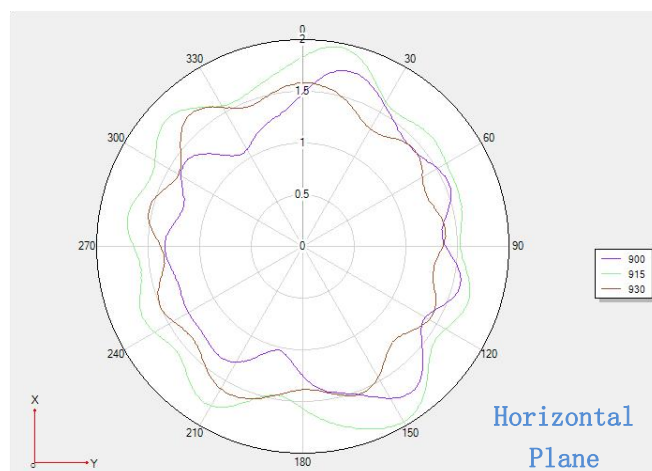
5-2 Antenna 2D Radiation Pattern



Phi 0 2D 图



Phi 90 2D 图



Theta 90 2D 图

6. Mechanical Specification

RoHS

REV	DATE	content of change
A	2023-4-25	New edition issue

Specification:
Frequency Range : 910-920MHz
VSWR : ≤1.92

1.The outer box shell be affixed with 1PCS/ROHS environmental label on the outer box label
2.The outer container shall be affixed with 1PCS outer container label to the upper left corner of the outer container if the label is required by the customer, it will be affixed according to the customer's requirements. Otherwise, it is labeled as good ratio).

1.Packing quantity: 25PCS/PE bag
2.Attach a types label to the inside of the PE bag

XXX ±5.0	Approve				
X ±3.0					
.X ±1.0	audit				
.X ±0.5					
.XX ±0.2	drawing				
	xilin.huang				

ITEM	PART UNMBER	QTY	unit	PART NAME & DESCRIPTION
9	Foam	1	PCS	EVA black
8	Foam	1	PCS	EVA black
7	stem casing	1	PCS	TPE Black
6	copper pipe	1	PCS	brass
5	wire rod	1	PCS	RG316;black
4	rivet	2	PCS	POM;black
3	Upper fixing seat	1	PCS	PC;black
2	Lower fixing seat	1	PCS	PC+PBT; black
1	splice	1	PCS	Nickel plated plastic head;black

client:	
Customer P/N:	
TITLE:	
P/N:	UB02S177B2D1129A
REV	A
unit	mm
ratio	1:1
size	A4
page	1/1

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