

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME: 绿联

产 品 名 称

PRODUCT NAME: 三频外置黑色 SMA 天线

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02S58B2D1371A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	 Eddy	
APPROVED BY:	Changxing. Liu	
DATE:	2025/2/28	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Huang	2025-2-28

Content

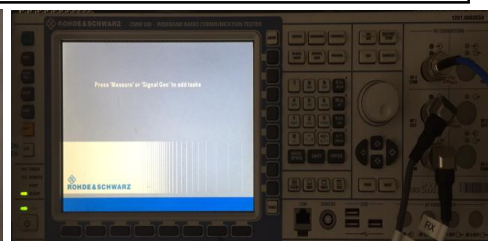
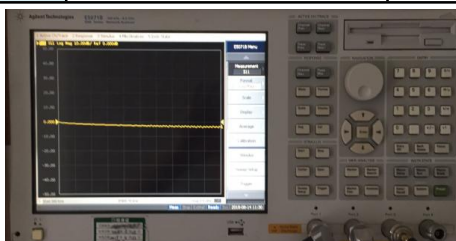
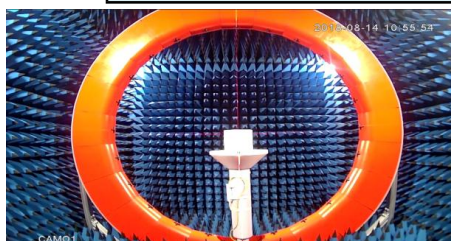
<i>Item</i>	<i>Description</i>
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3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Antenna installation diagram
7.-----	Mechanical Specification

1. Electrical Specification

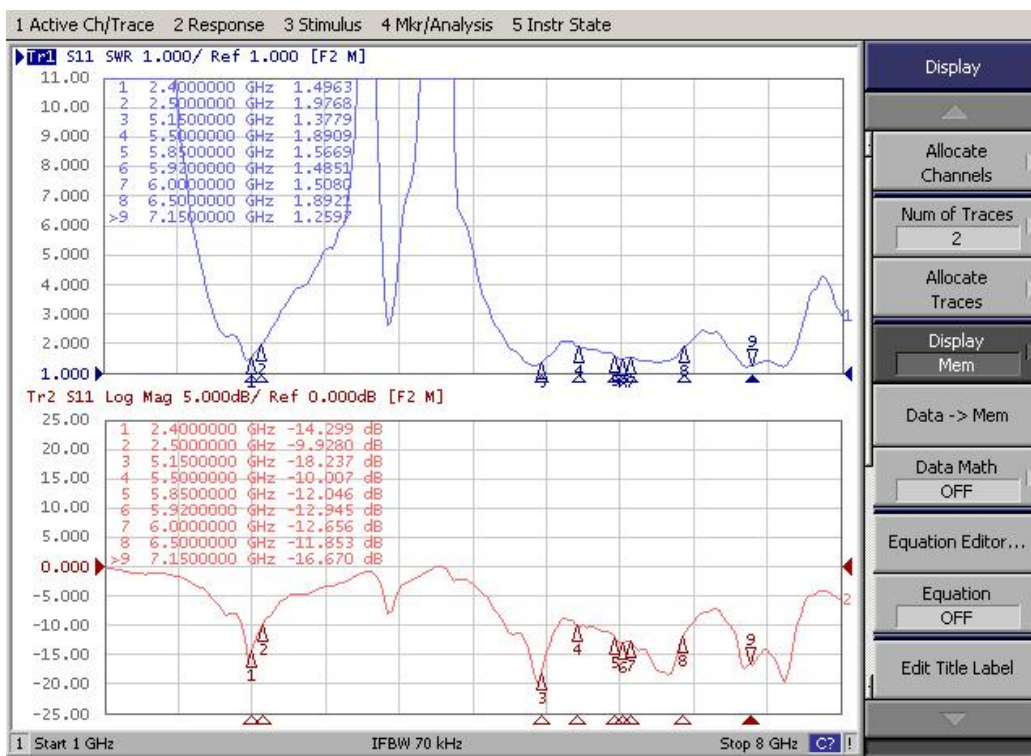
Characteristics	Specifications	Unit
Outline Dimensions	188*19.54*38	mm
Frequency	2400/7125	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	3 REF	dBi
Efficiency	>50	%
Connector Type	RP-SMA	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

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



4. Efficiency and Gain

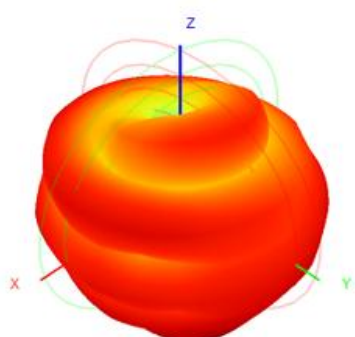
Frequency / MHz	Efficiency / %	Gain/ dBi
2400	68.21	1.12
2410	72.44	1.15
2420	74.04	1.62
2430	72.38	1.52
2440	72.58	1.32
2450	67.77	1.56
2460	64.91	1.57
2470	64.21	1.67
2480	67.85	1.28
2490	65.54	1.30
2500	69.76	1.01

Frequency / MHz	Efficiency / %	Gain/ dBi
5150	60.68	3.16
5200	51.82	2.42
5250	55.17	2.07
5300	57.79	3.04
5350	54.26	2.86
5400	54.20	2.07
5450	56.17	2.45
5500	55.37	1.60
5550	54.32	2.01
5600	54.41	2.12
5650	55.25	2.31
5700	60.26	2.78
5750	55.84	1.60
5800	55.91	1.58
5850	63.16	2.31

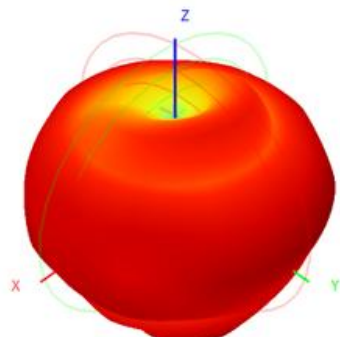
Frequency / MHz	Efficiency / %	Gain/ dBi
5925	59.07	1.76
5975	61.07	2.37
6025	63.99	2.60
6075	62.79	2.66
6125	64.01	2.89
6175	61.15	2.57
6225	60.79	2.58
6275	62.84	1.92
6325	58.50	1.67
6375	61.26	2.32
6425	64.20	1.61
6475	58.96	1.95
6525	62.80	2.20
6575	66.31	1.46
6625	58.95	2.32
6675	59.39	2.17
6725	62.83	2.16
6775	59.69	2.58
6825	53.70	2.72
6875	57.87	2.54
6925	54.39	2.44
6975	54.07	2.92
7025	53.87	2.59
7075	50.41	2.11
7125	50.19	2.24

5. Radiation Pattern

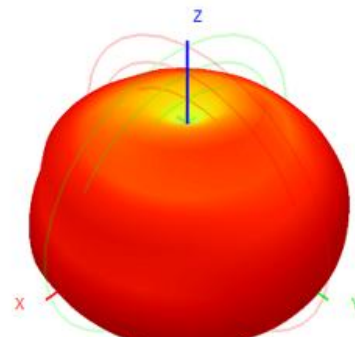
5-2 Antenna 3D Radiation Pattern



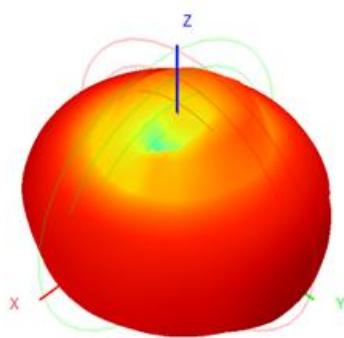
2400MHz



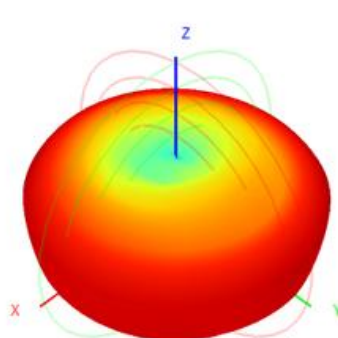
2450MHz



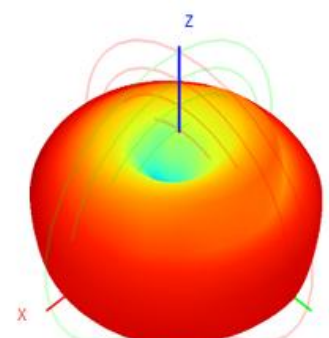
2500MHz



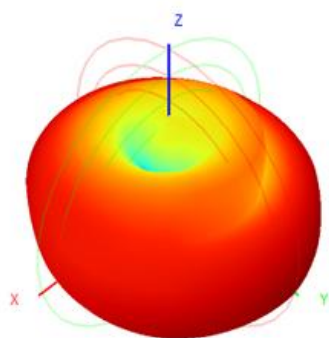
5150MHz



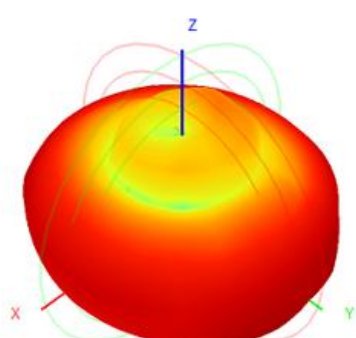
5500MHz



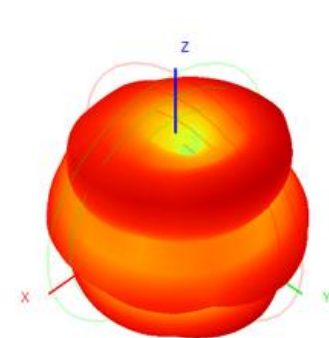
5850MHz



5925MHz

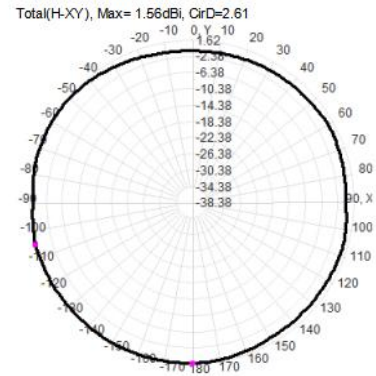
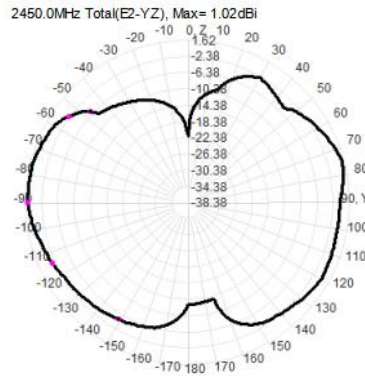
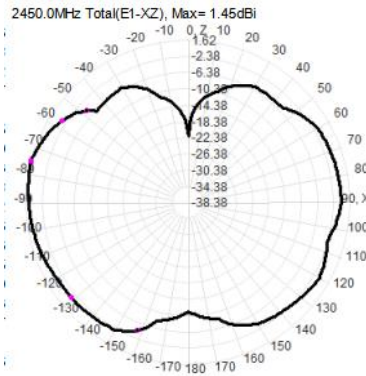


6575MHz

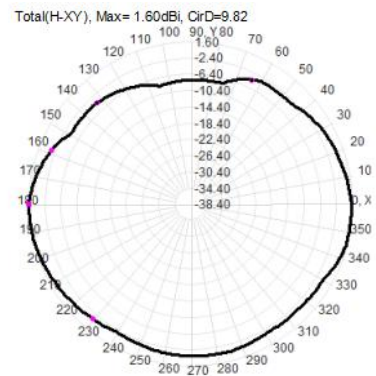
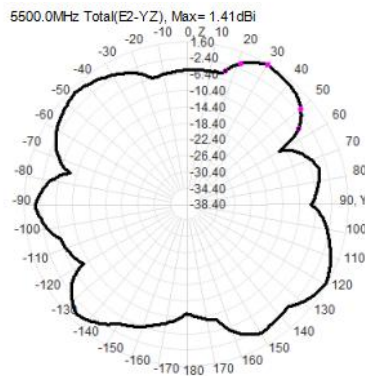
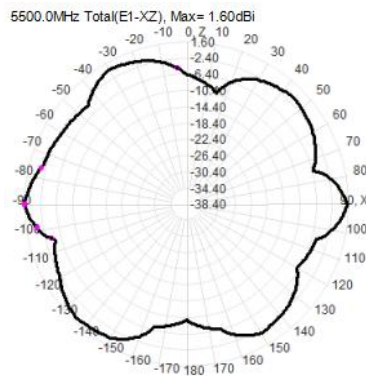


7125MHz

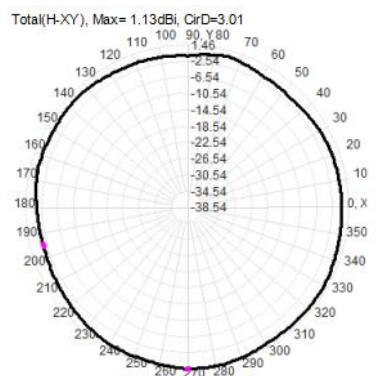
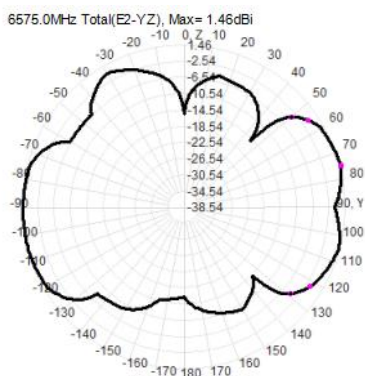
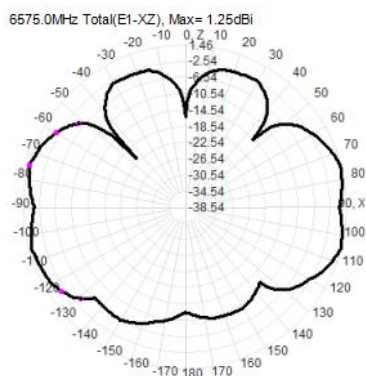
5-2 Antenna 2D Radiation Pattern



2450MHz



5500MHz



6575MHz

6. Antenna installation diagram



7. Mechanical Specification

