APPROVAL SHEET

CUSTOMER NAME:

PRODUCT NAME: 2.4/5.8G W39 White Antenna L=278mm+terminal

CUSTOMER P/N:

UB P/N: BL02C300W3Da280A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	东莞市优比电子有限公司 工程专用章	
APPROVED BY:		
DATE:	2022/11/01	

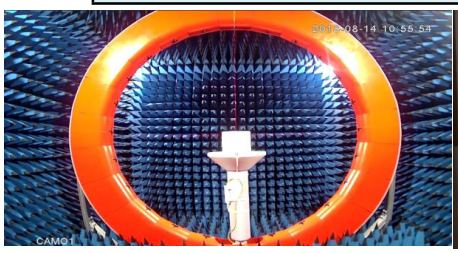
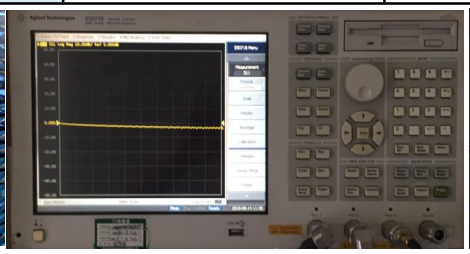
Contents

1. Specification table:

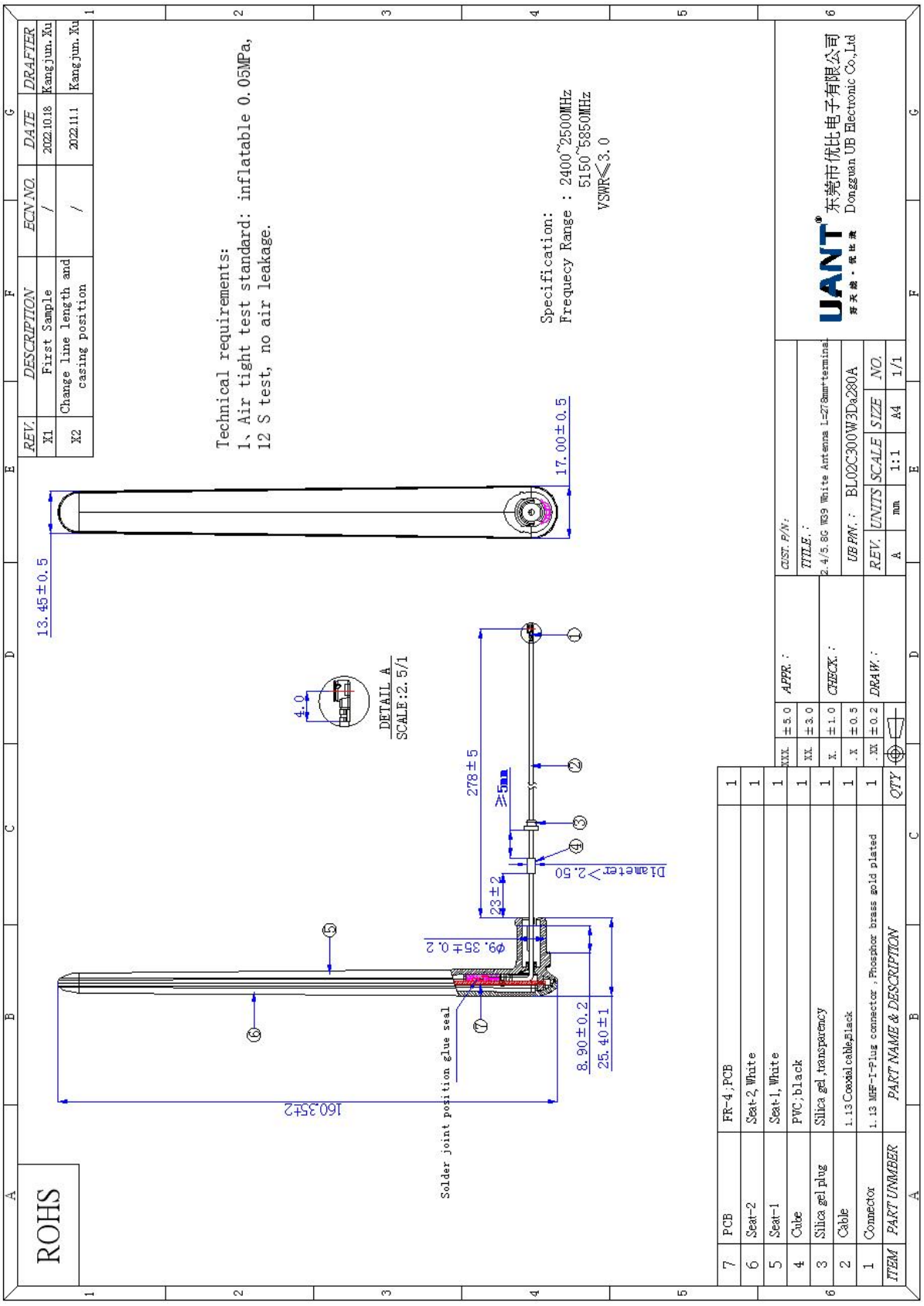
Electrical Specification	
Design Specifications	Types
Antenna Type	External antenna lead wire type
Operating Frequency	2400-2500MHz;5150-5850MHz
Peak Gain	4.02dBi
Average Efficiency	58.27%
VSWR	＜3
Polarization	Linear
Axial Ratio	\
Radiation pattern	Omnidirectional
Impedance	50 ohm
Power handling	1W
Interface	Coaxial line + terminal
Overall dimensions	160.35*17*25.4mm
Operating Temp.	-20℃~+70℃
Storage Temp.	-20℃~+70℃

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)

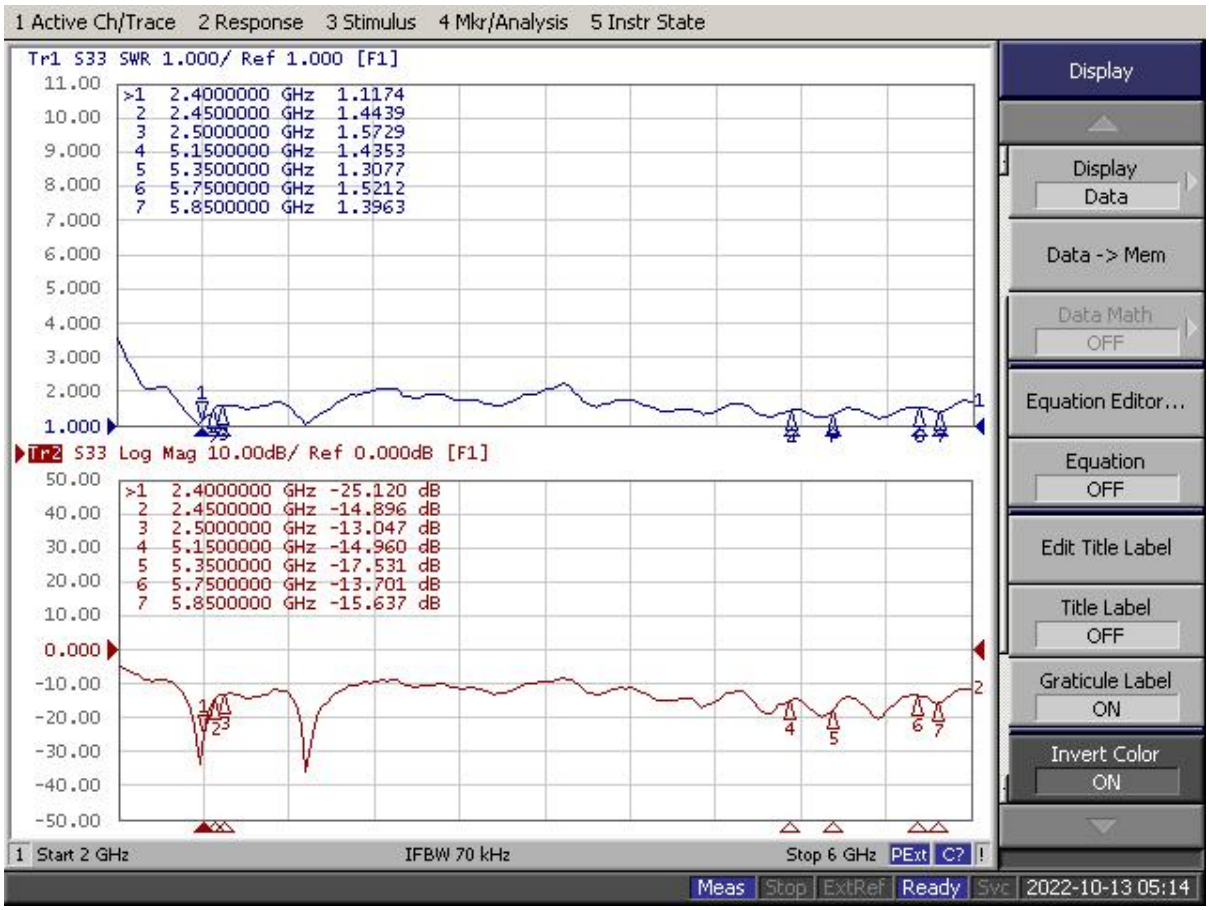




3. Mechanical Specification



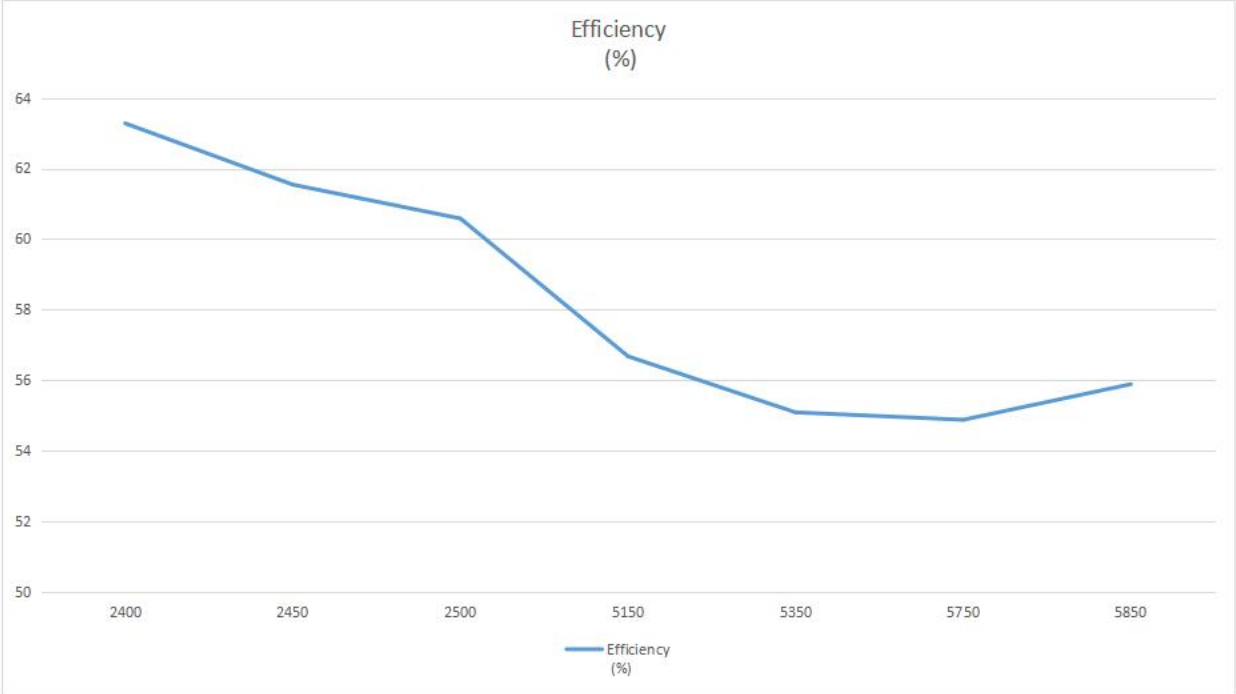
4. test report:

4.1: S-Parameter

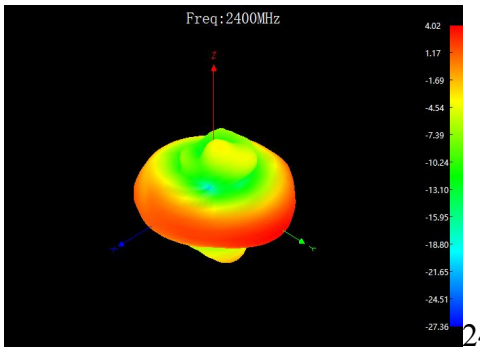


4.2: Efficiency and Gain

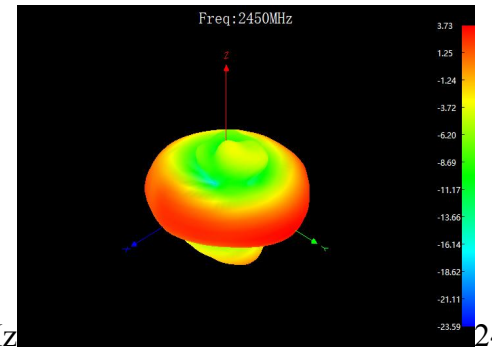
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
2400	-2.42	63.28	4.02
2450	-2.4	61.54	3.73
2500	-2.71	60.58	3.61
5150	-3.31	56.67	1.98
5350	-2.59	55.08	1.95
5750	-3.48	54.87	1.79
5850	-2.85	55.88	2.04



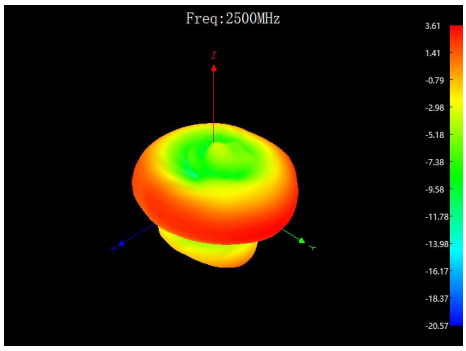
4.3：Antenna 2/3D Radiation Pattern



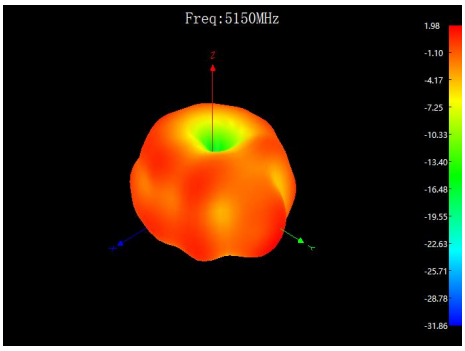
2400MHz



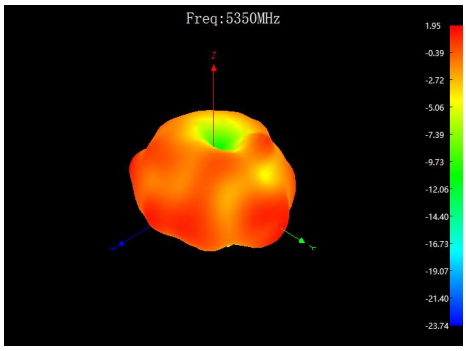
2450MHz



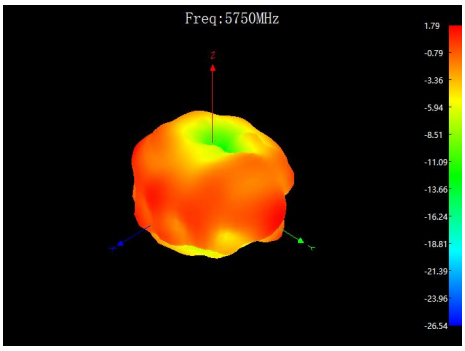
2500MHz



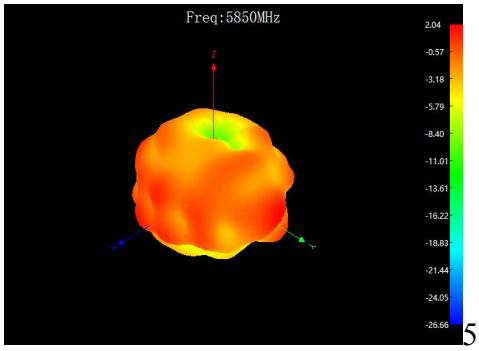
5150MHz



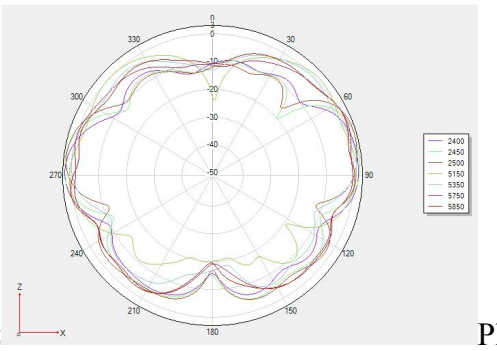
5350MHz



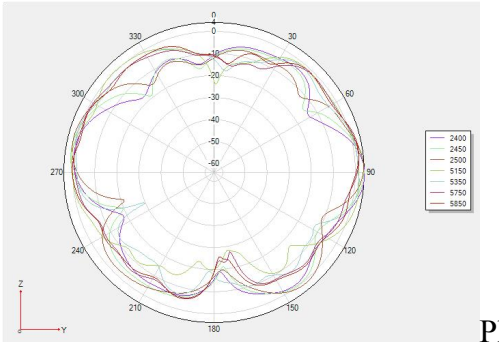
5750MHz



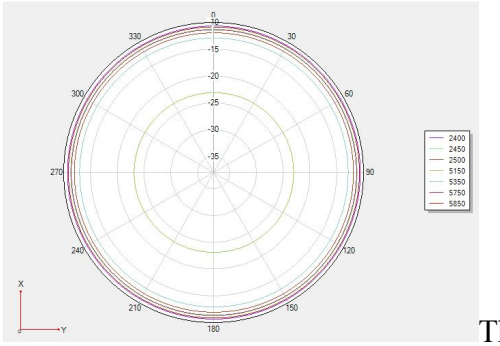
5850MHz



Phi 0



Phi 90



Theta 90