

Shenzhen SKYLink Technology Co.,Ltd

Floor D, 5th Floor, Building L, No. 26, Lane 2, Liuxian 1st Road,
Bao'an District, Shenzhen

Antenna Specification for Approval

Customer Name: _____

Product Name: _____ SRD Antenna _____

Part NO. : _____ EWF046. DF01B. SMAMF _____

Write By: _____ Damon Cui _____

Issued Date: _____ 2025-4-1 _____

Customer

R&D Dept	Business Dept	Approved By

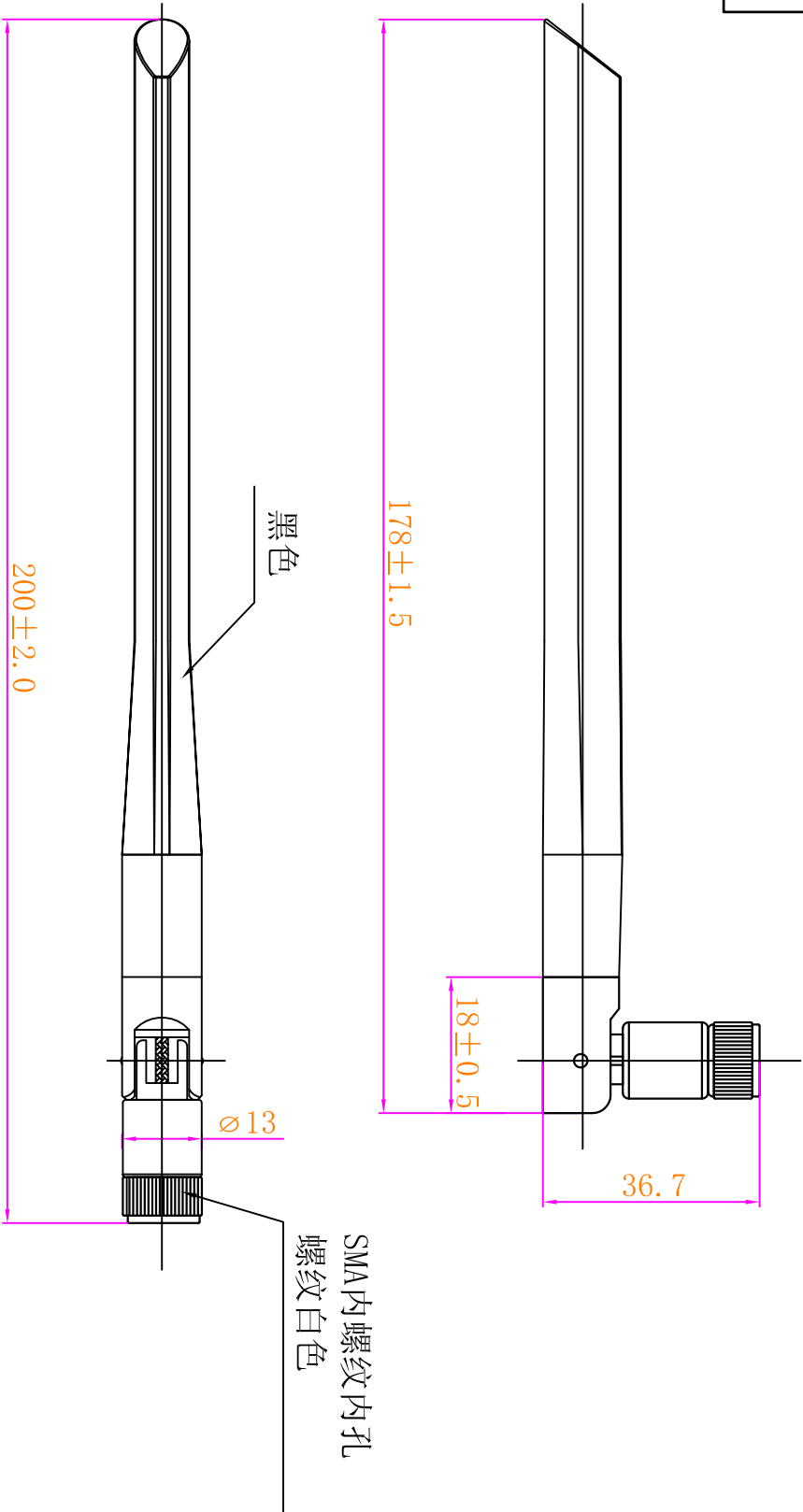
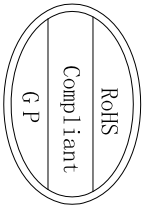
SKYLink

R&D Dept	Engineer Dept	Approval

Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz 5150MHz~5850 MHz
VSWR	2400MHz ~2500MHz <2.0 5150MHz~5850 MHz <3.0
Efficiency	>50%
Impedance	50 Ohm
Polarization	Line
Gain	≤5DBi@ 5150MHz~5850 MHz ≤3DBi @ 2400MHz ~2500MHz
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	RG178
Connector Type	SMA
Dimension	
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 30 °C ~ + 85 °C

Test Equipment & Conditions



深圳 天 联 凌 科 技 有 限 公 司		SHEN ZHEN SKYLINK CO.,LTD		Project				Date		2021-07-21	
棒子天线		Part Name		Part No.		EWF046.DF01B.SMA.MF		Designed by			
Material		Material		Material		Material		Checked by		RF	
40~		±0.20		Angle		±0.5°		Approved by			
Location		DWG No.		Unit		mm		Scale		1:1	
Rev		Description		Date		Remark		Unit		Rev	
A		New drawing								A	

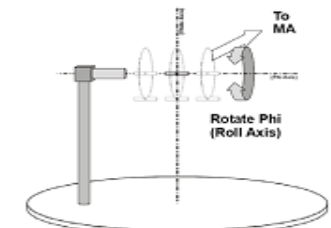
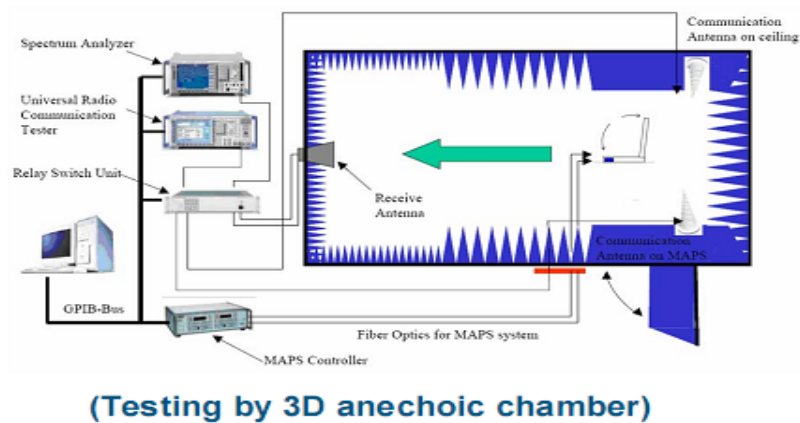
1. Network Analyzers :

Agilent 8753D 5071B

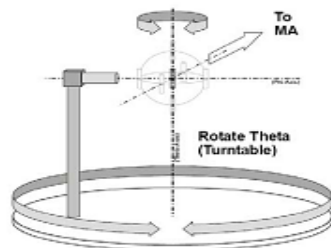
2. Communications Test Set:

Agilent E5515C

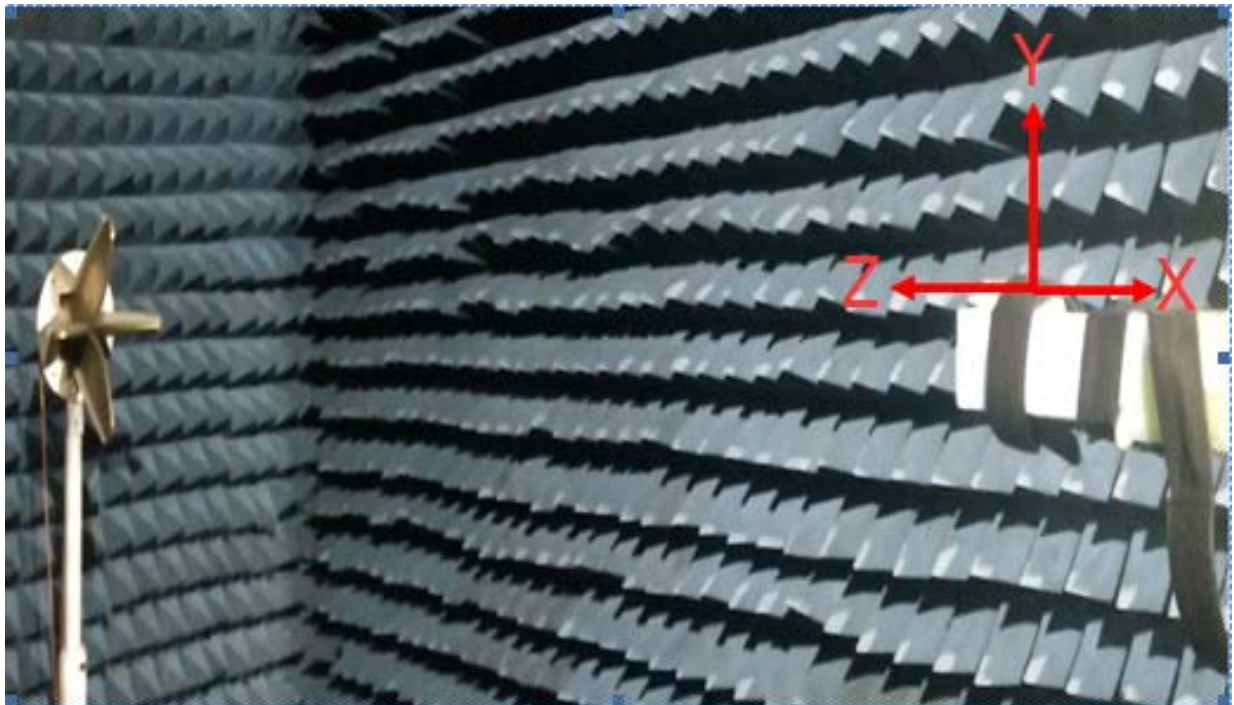
3. 3D Chamber Test System



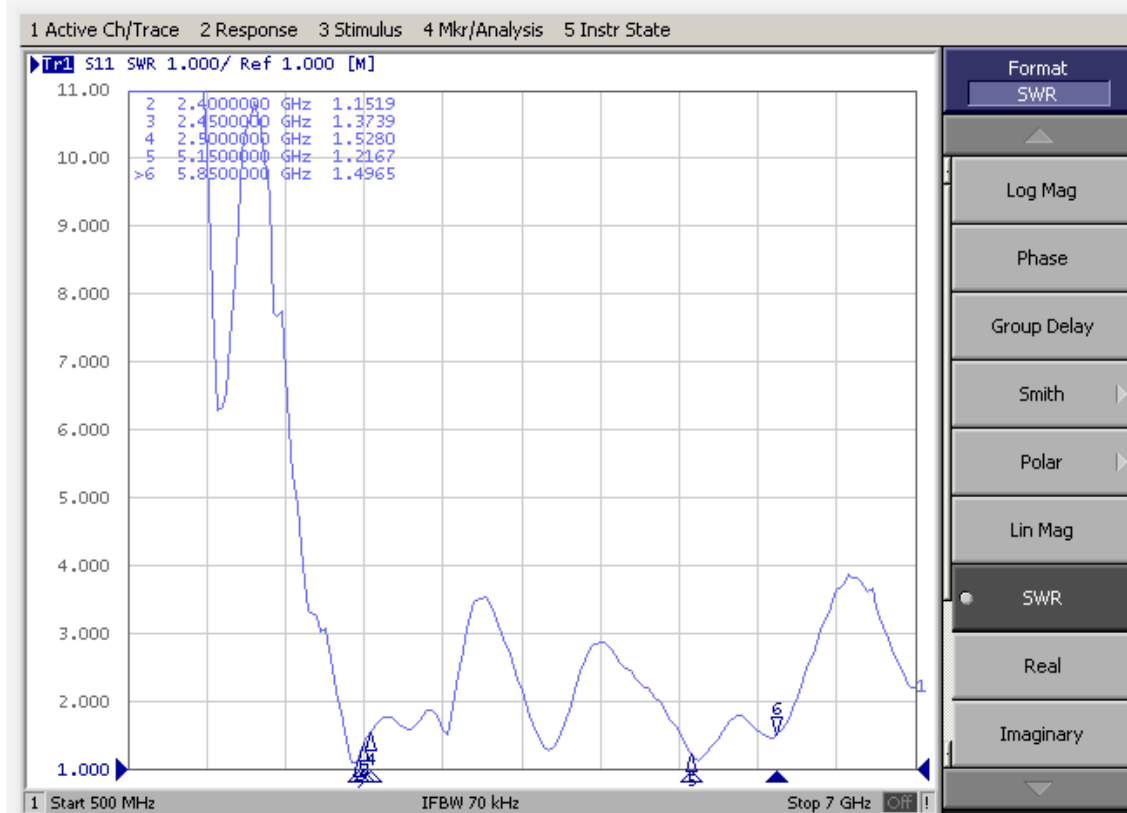
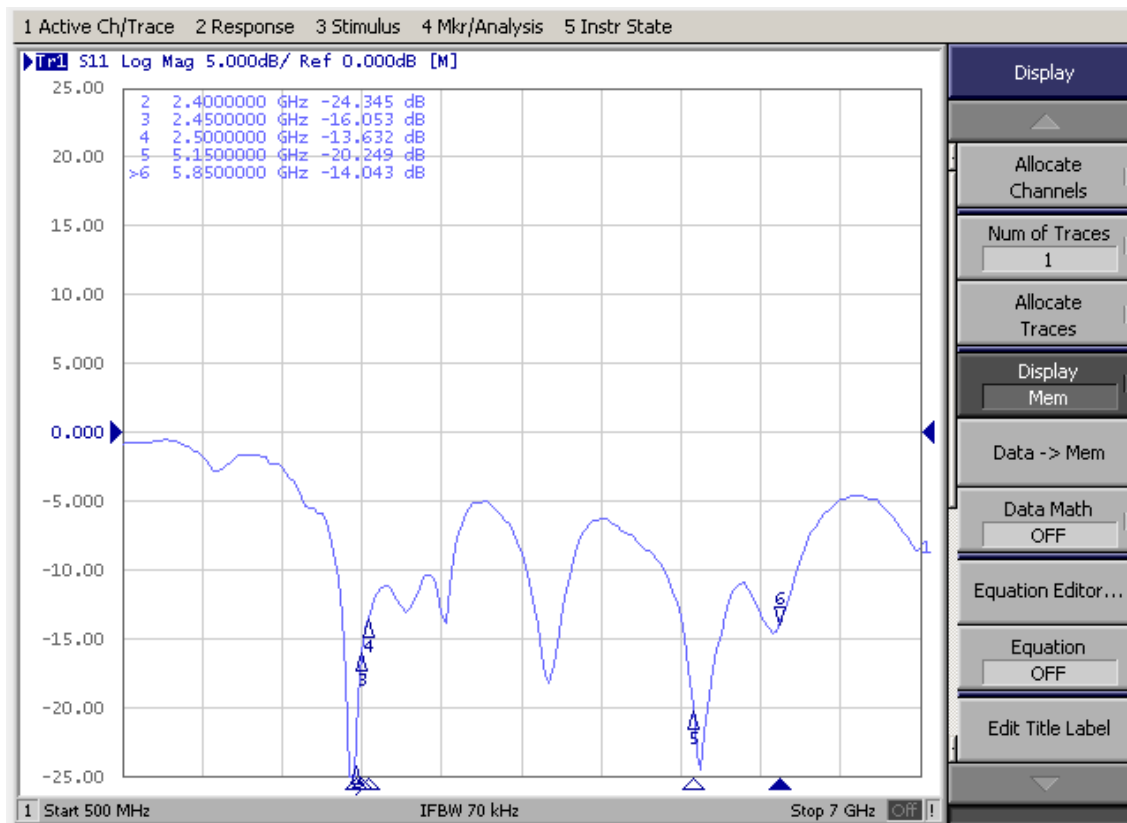
Phi axis test



Theta axis test



S11

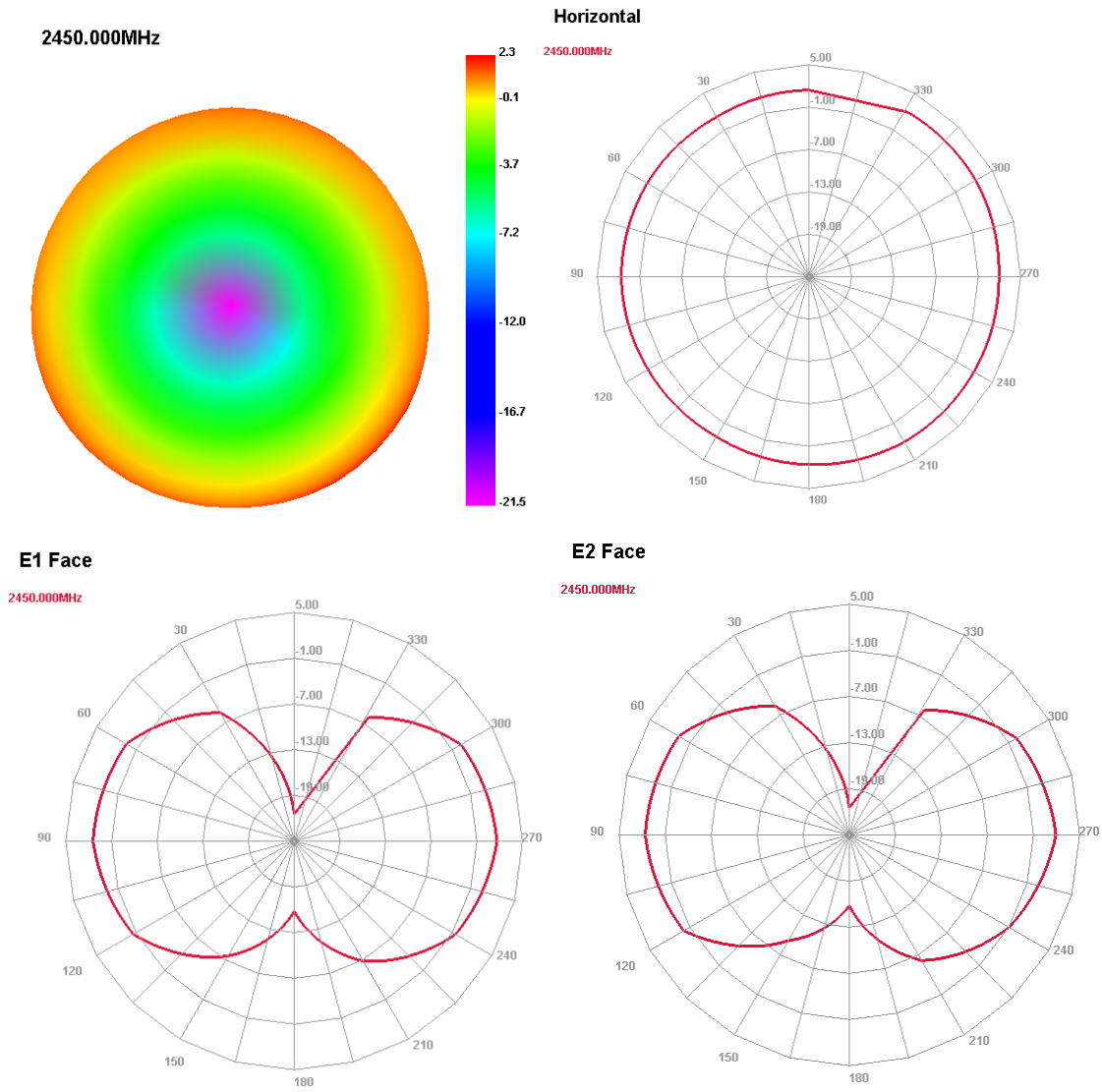


Gain & Efficiency

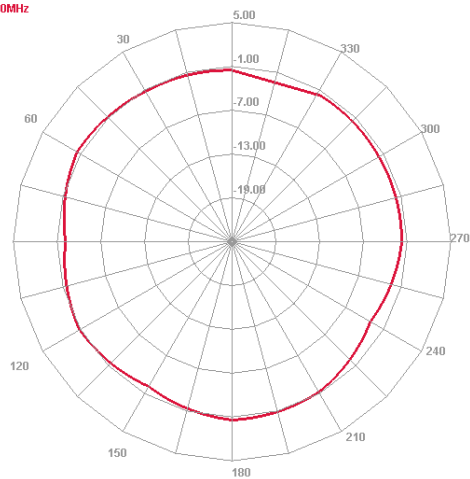
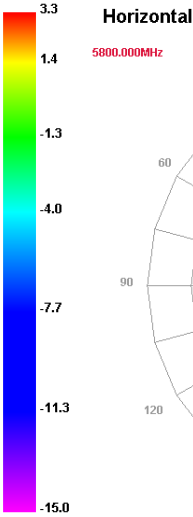
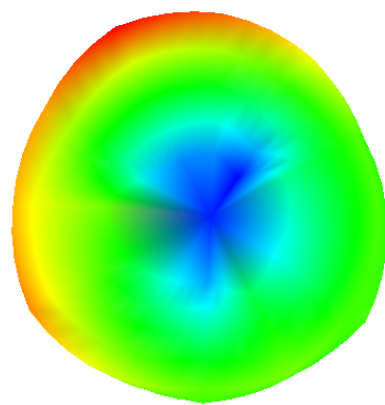
Freq (MHz)	Effi (%)	Gain (dBi)
5000	61.64	3.47
5100	66.76	2.13
5200	65.59	2.23
5300	68.04	2.04
5400	60.09	2.43
5500	62.45	2.4
5600	60.76	2.13
5700	60.21	2.81
5800	57.51	2.9
5900	59.49	2.26

Freq (MHz)	Effi (%)	Gain (dBi)
2400	70.25	1.99
2410	69.47	1.95
2420	68.73	1.91
2430	67.58	1.85
2440	66.35	1.84
2450	66.02	1.87
2460	65.21	1.93
2470	67.82	1.96
2480	66.34	1.92
2490	68.23	2.23
2500	72.14	2.35

Radiation Pattern:

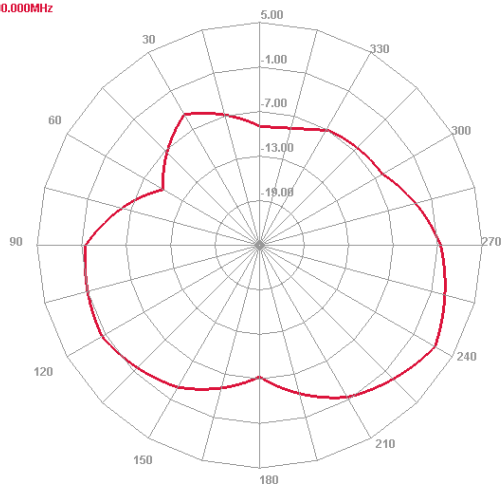


5800.000MHz



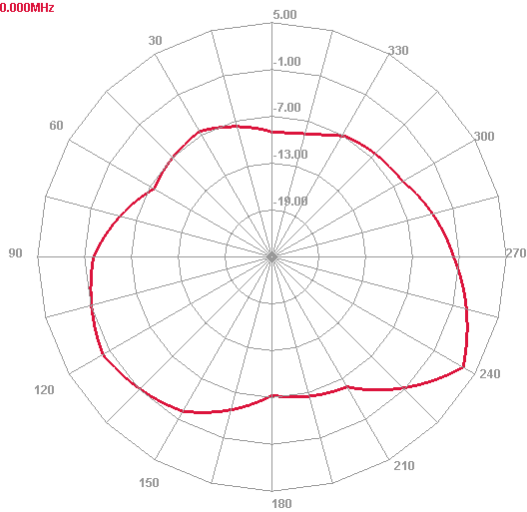
E1 Face

5800.000MHz



E2 Face

5800.000MHz



Test Item		Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	Temperature: -30℃ , Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-down the temp. to -30℃ in one hour, store antenna for 44 hours; step-up temp to 25℃,test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2	High Temp./High Humid Storage Test	Temperature: 85℃ Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-up the temp. to 80℃ and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25℃,test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
3	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: 35±2℃ Humidity: 85% NaCl salt spray :5 ±1 %.PH value :6.5~7.2 Test time:12hours	Salt-Spray Tester	No color change No appear rusting	PASS