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## 3.Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500 MHz
VSWR	<2.0
Efficiency	≥40%
Impedance	50Ohm
Polarization	Linear
Gain	≤3.64dB
B. Material & Mechanical Characteristics	
Material of Radiator	PCB(black),板载
Cable Type	N/A
Connector Type	N/A
Dimension	N/A
C. Environmental	
Operation Temperature	- 20 °C ~ + 70 °C
Storage Temperature	- 30 °C ~ + 85 °C
Humidity	40%~95%

## 4.TestEquipment & Conditions

- |                                  |                     |
|----------------------------------|---------------------|
| 1.Network Analyzers              | Agilent 8753D/5071C |
| 2.HSPA and LTE protocol test set | R&SCMW500 -PT       |
| 3.Communications Test Set        | Agilent 8960        |
| 4.3D Chamber Test System         |                     |

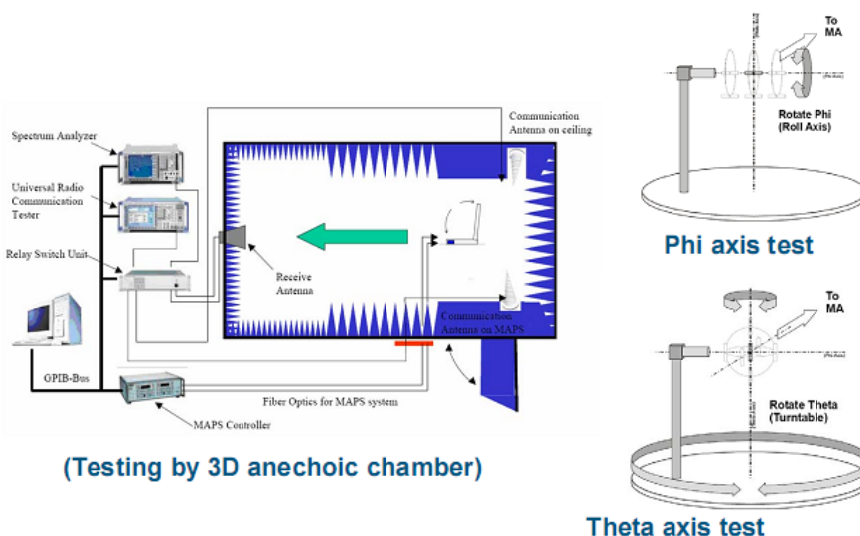


Chart1 Test topology



## 5. Test Report

### 5.1 Voltage Standing Wave Ratio(VSWR).

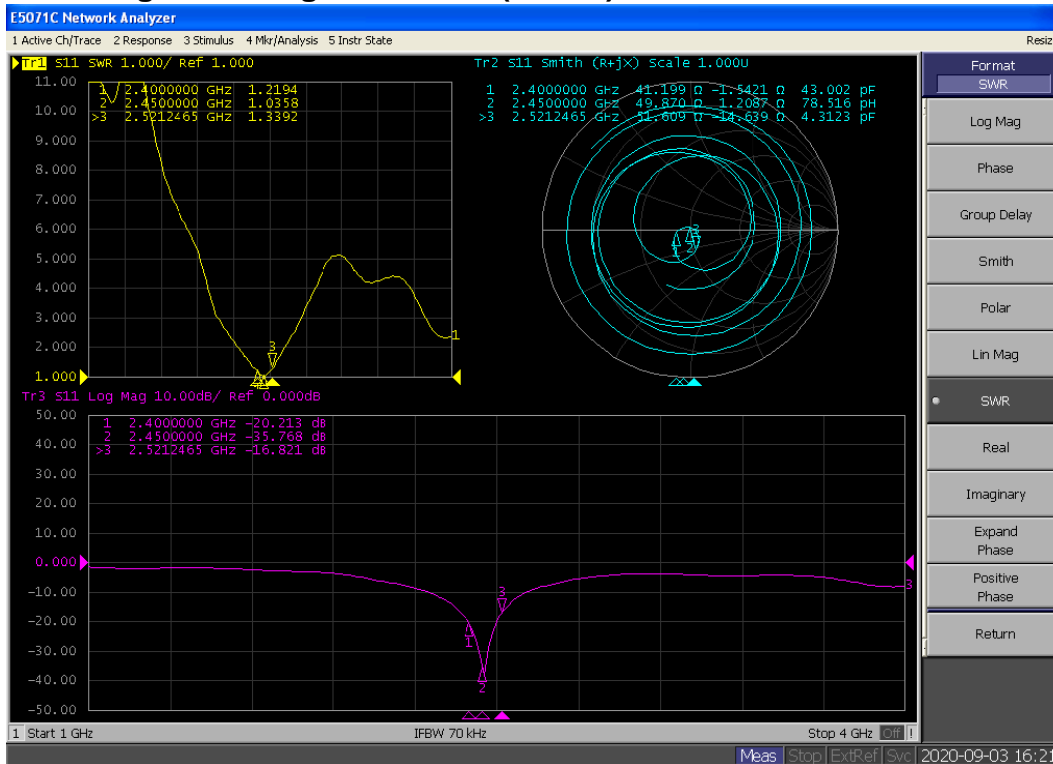
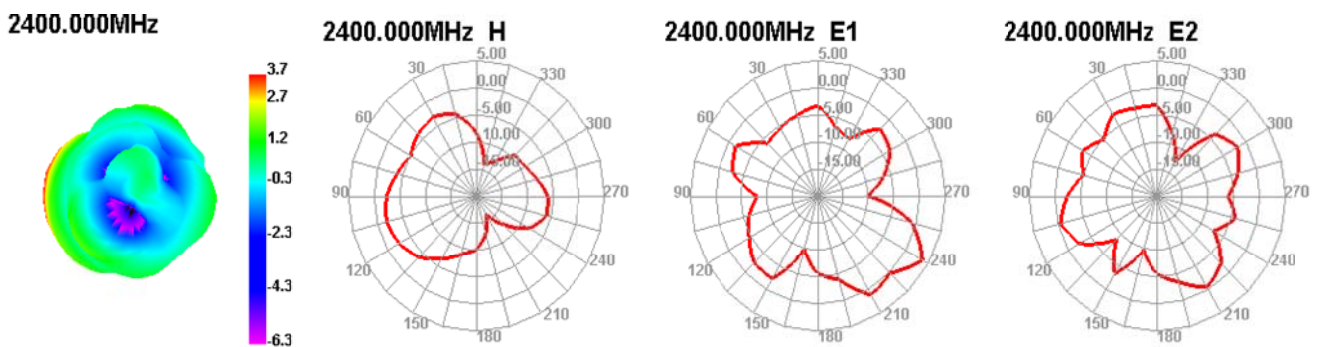


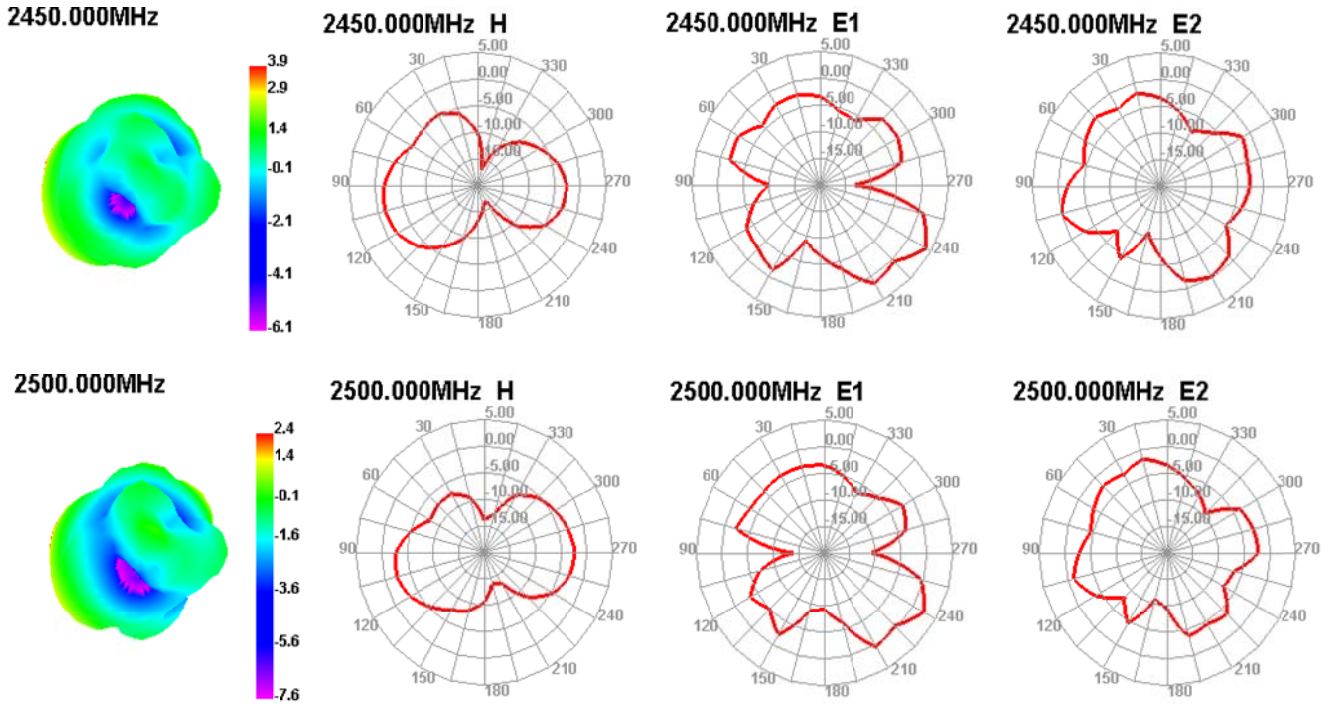
Chart2 VSWR

### 5.2 Efficient and gain.

Passive Test 2.4GHz	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	Effi(%)	58.62	51.84	56.47	55.07	54.54	53.06	51.80	52.38	53.21	52.77	50.64
	Gain(dBi)	3.55	3.60	2.75	2.84	3.01	3.64	3.24	3.02	2.72	2.37	2.20

### 5.3 Radiation pattern.





### 6. Reliability Test

Test Item	Test condition	Equipment	Specification	Result
1 LowTemp. 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-downthe temp. to -30℃ in one hour, store antenna for44 hours; step-up temp to 25℃,test antenna after2 hours.	Temp.&Humidity 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 thetemp. to 80℃ and the humidity up to 85% in onehour, store antenna for 44 hours; step-down temp to 25℃,test antenna after 2 hours.	Temp.&Humidity Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
3 Salt-Spray Test	Placing antenna in the Salt-Spray Tester ,set thetest condition , Temp: 35±2℃ Humidity: 85%NaCl salt spray :5±1%.PH value :6.5~7.2 Testtime:24hours	Salt-Spray Tester	No color change appear rusting	PASS

### 7. Assemble type (omit)

### 8. Product Drawing

