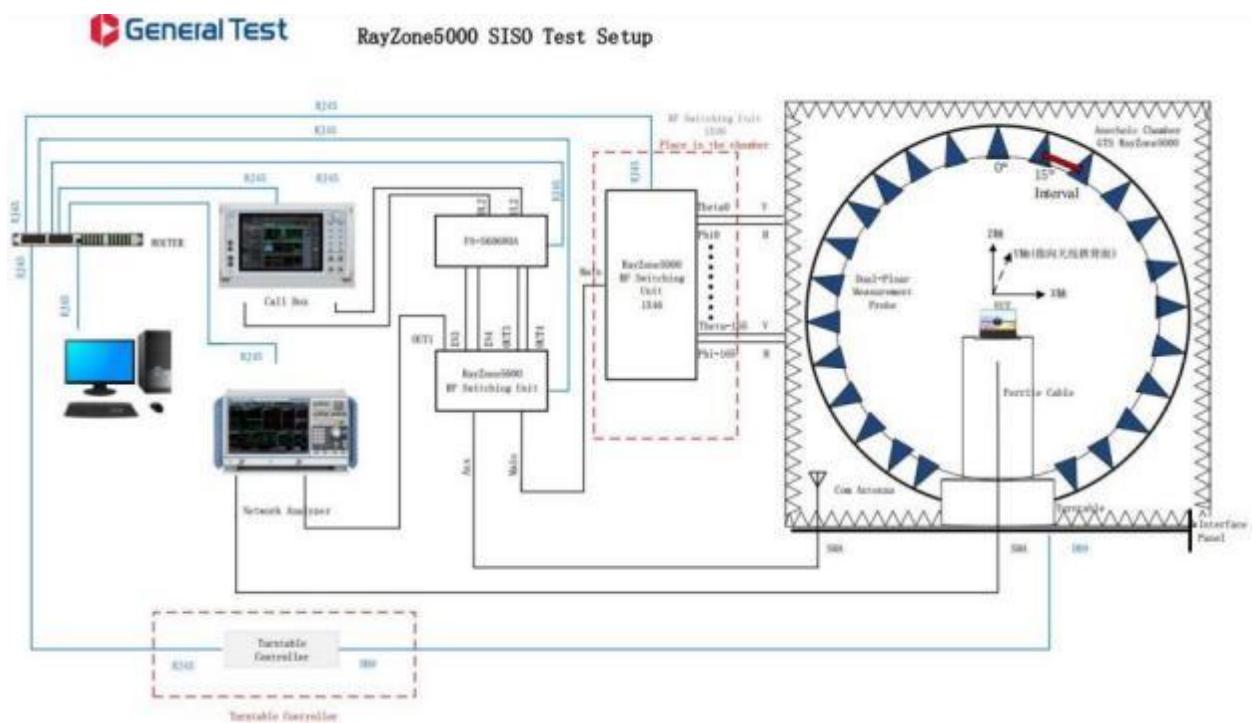


Shenzhen YLW Technology Co., Ltd

# Antenna report

## 1. Basic information

### 1.1 Test principle



# ShanWan

## 1. 2 Test the equipment

name	mode	equipmen	Vturer		next time
OTA test	RayZone-5000	RFI-LAB-RF-D00		Calibration date 2021.3.22	2023.3.21
network	E5071C	RFI-LAB-RF-C02	KEYSIGHT	2022.5.13	2023.5.12
network	E5071C		KEYSIGHT	2022.5.13	2023.5.12

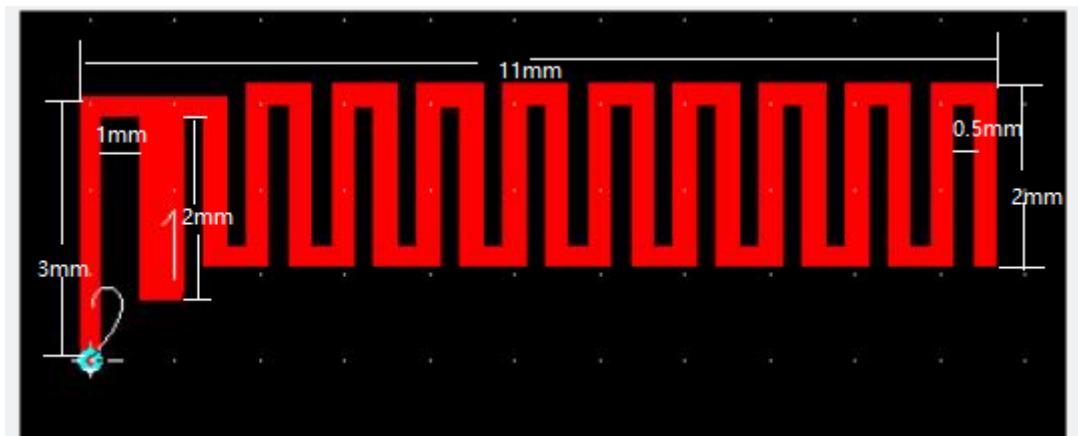
## 1. 3 Test environment

ambient temperature	23.7°C
relative humidity	58%RH
atmospheric pressure	100.14kPa

# ShanWan

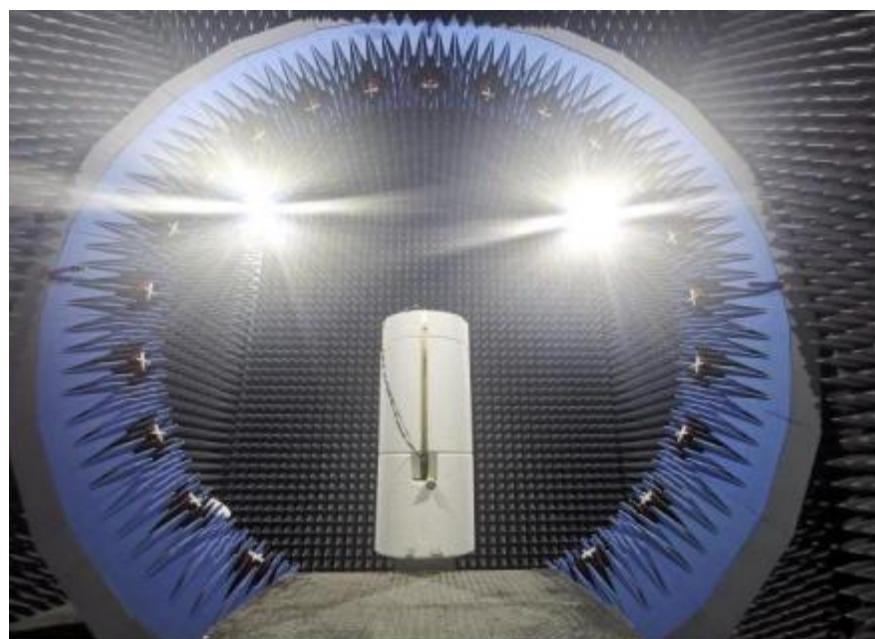
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## 2. Physical drawing of the samples



## 3. Actual measured placement drawing of the samples

front view



## 3. Test results

### 3.1 Test Basis

Object name	The parameter name	Method name	According to the standard number
Mobile communication antenna	antenna pattern	General technical specifications for mobile communication antenna	GB/T 9410-2008
	antenna gain		
	voltage standing-wave ratio		
	Direction diagram		

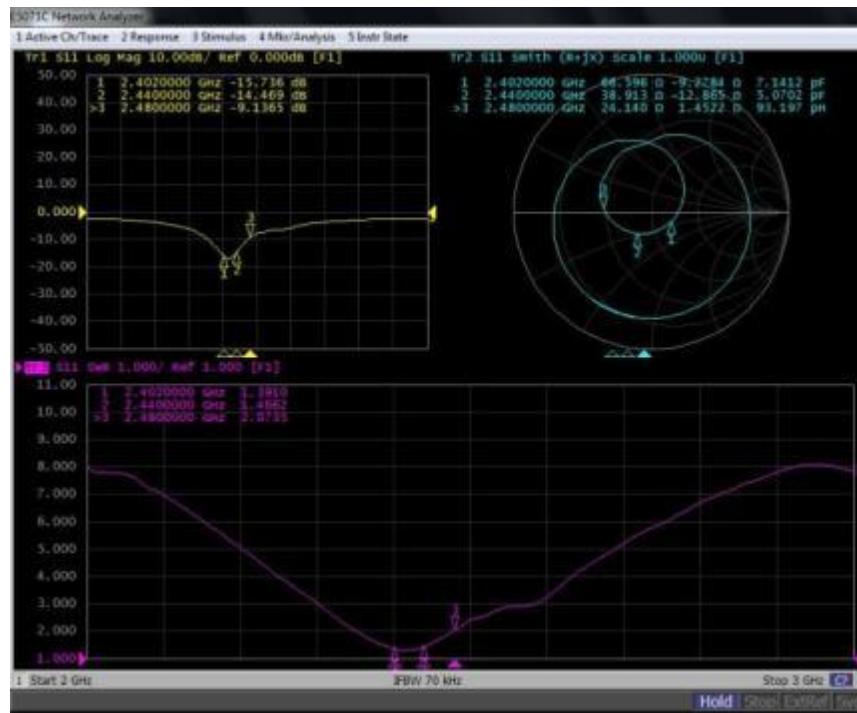
### 3.2 Test Uncertainty

The calculation of the uncertainty is based on the ISO release "Guide to the Expression of Uncertainty in Measurement" (GUM), using the inclusion factor of K=2 and the 95% confidence level to represent the extended uncertainty.

project	uncertainty
standing-wave ratio	±0.3
Gain, efficiency	±0.72dB

### 3.3 test data

#### 3.3.1 Network analyzer test



#### 3.3.2 Resident bbi

frequency /MHz	2402	2440	2480
voltage standing -wave ratio	1.391	1.466	2.0735

#### 3.3.3 Gain and efficiency

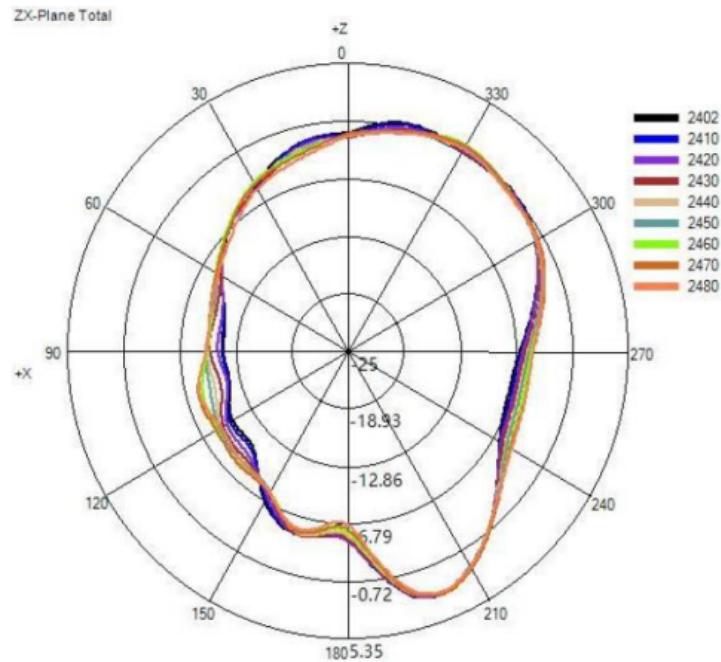
frequency /MHz	2402	2410	2420	2430	2440	2450	2460	2470	2480
maximum gain /dBi	2.85	2.88	2.79	2.77	2.69	2.52	2.46	2.41	2.03
productiveness /%	44.98	45.34	44.93	45.74	46.00	45.14	45.56	44.49	40.81

#### 3.3.4 Dimension of the directional graph

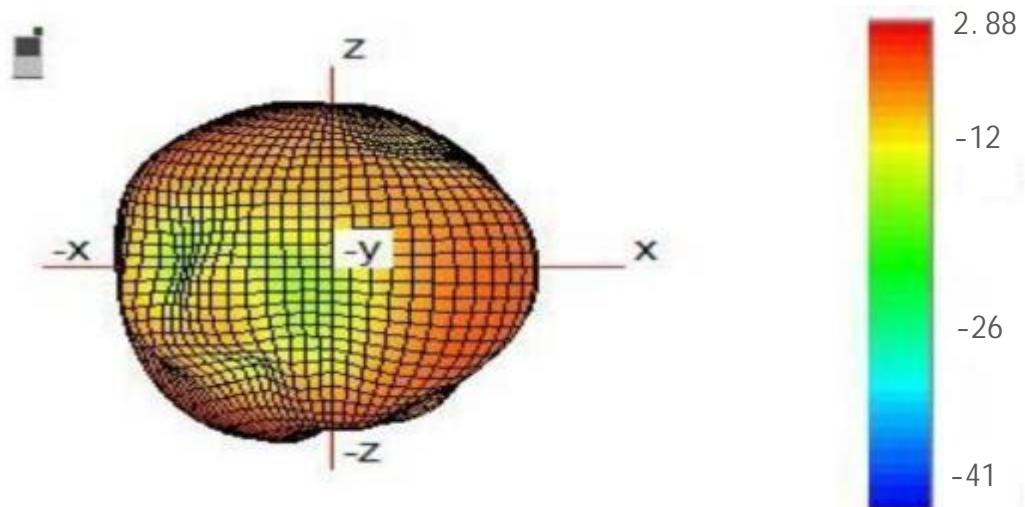
frequency /MHz	2402	2410	2420	2430	2440	2450	2460	2470	2480
H Theta=90/dB	14.2	14.4	14.3	13.6	13.3	13.3	13.1	13.3	13.5

## 3.3.5 Direction diagram

(1) X-Z面(单位: dBi):



(4) 3D orientation diagram of 2410 MHz (unit: dBi):



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