

# Antenna Sample Datasheet

entry name:	SC0131
Material category:	WIFI Antenna
Antenna Type	FPC
Antenna Material	FPC
edition:	A1
Date:	2024. 03. 19

# Contents

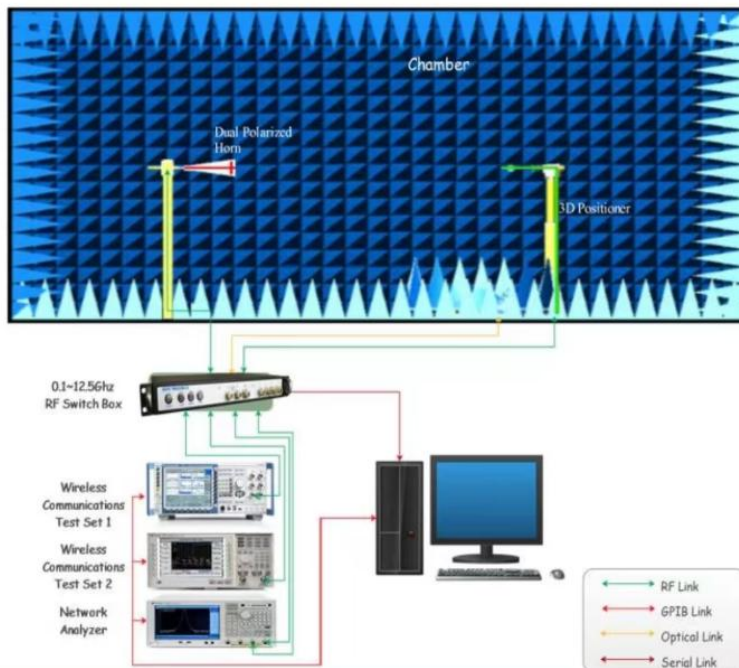
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# 1: Antenna test equipment

List of meters: Agilent 5071B;

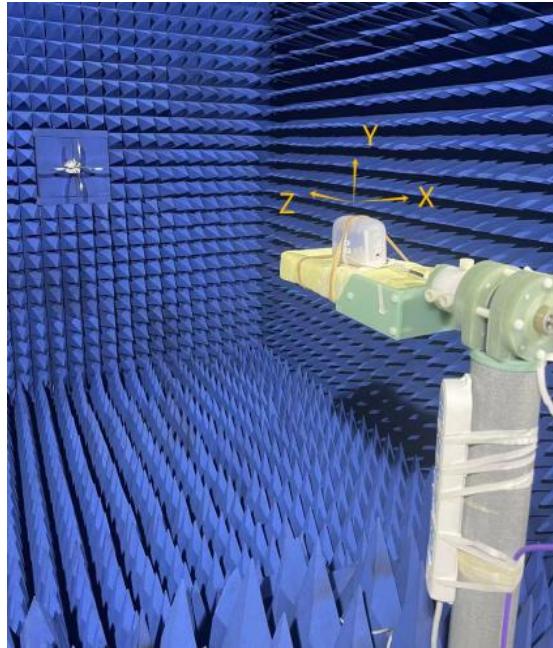


## 1.1 The principle diagram of the OTA darkroom

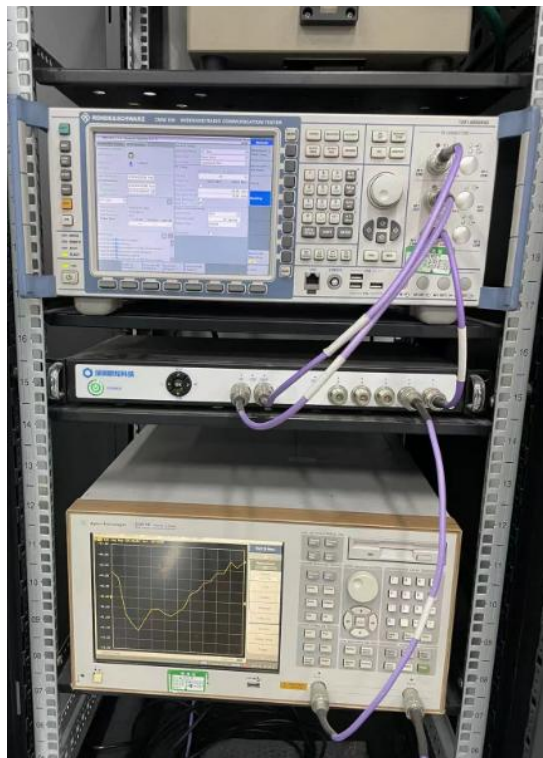


Picture1. Antenna static test connection method

## 1.2 Pictures of the OTA microwave darkroom



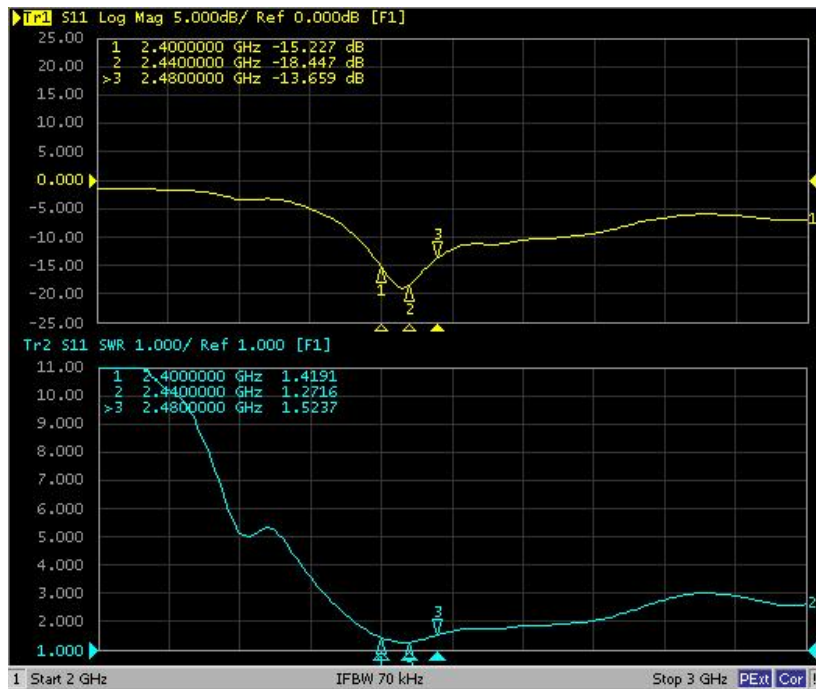
Inside the OTA darkroom



Test Machine

## 2: Passive test report

### 2.1: WIFI antenna S11 parameters

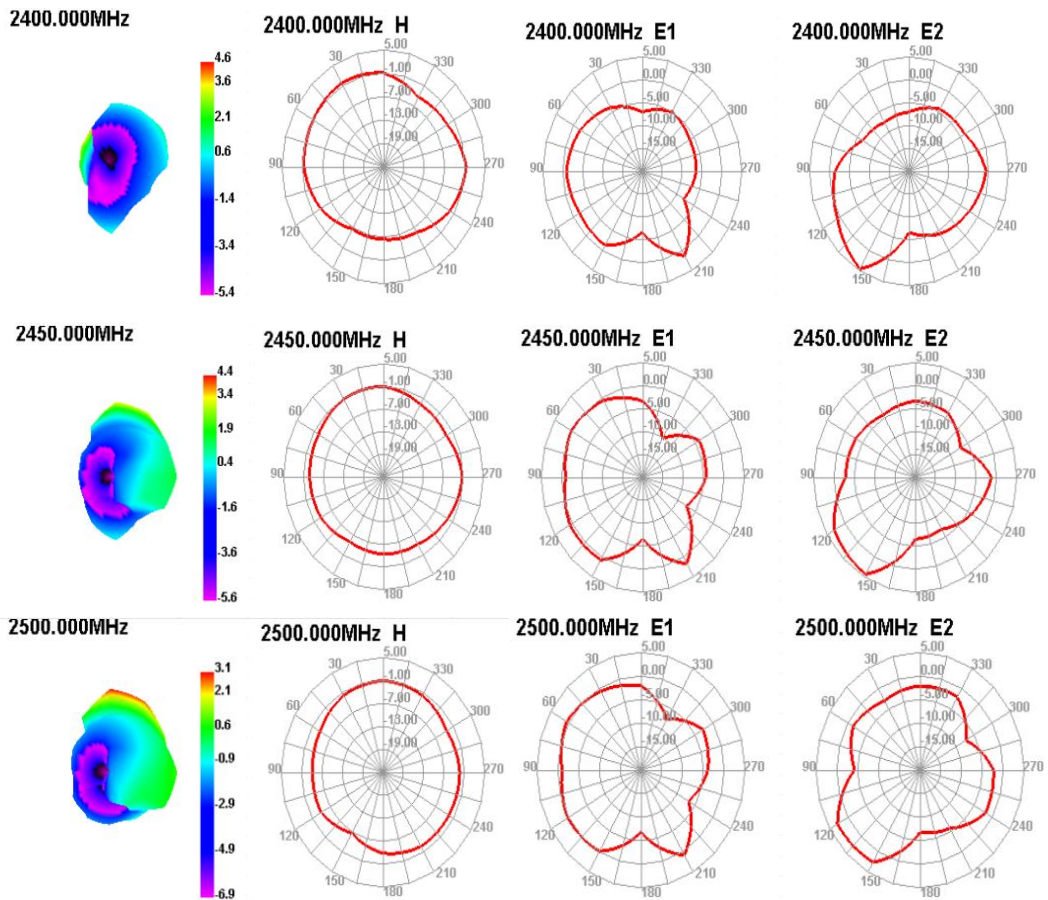


### 2.2: Passive efficiency of antenna

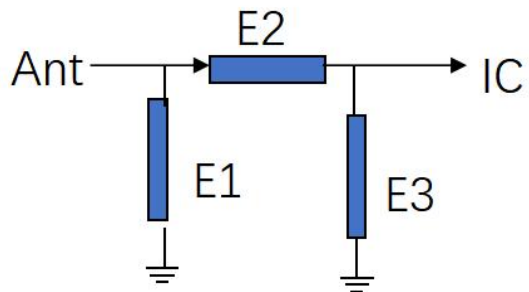
Frequency(MHz)	Gain(dBi)	Efficiency(%)
2400	4.60	69.68
2410	4.52	69.3
2420	4.37	68.77
2430	4.2	67.17
2440	4.26	67.42
2450	4.40	66.53
2460	4.19	65.63
2470	3.98	64.73
2480	3.26	64.29
2490	3.27	62.47
2500	3.10	60.05

### 2.3: Passive pattern of WIFI antenna

Unit: dBi

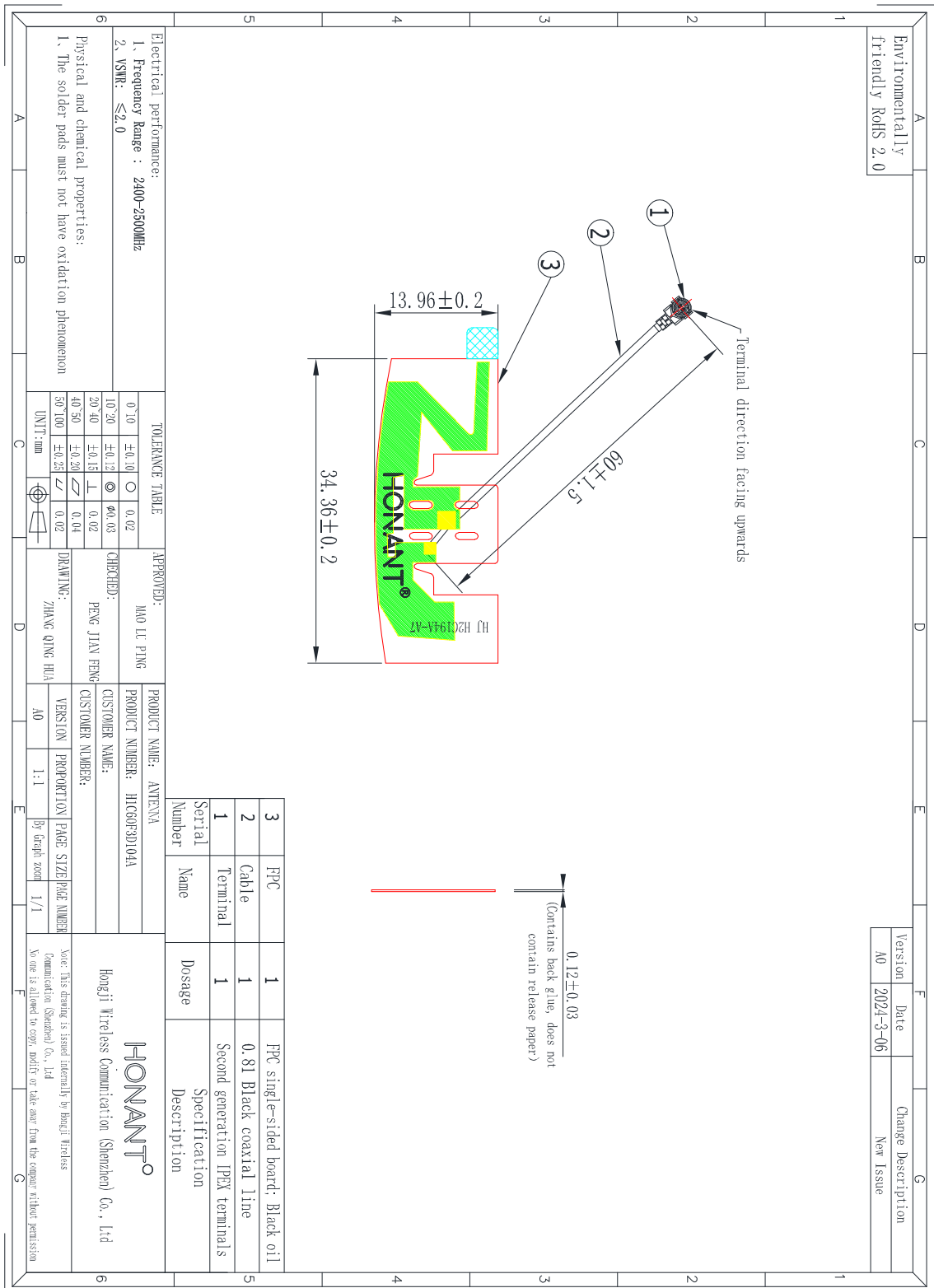


### 3: Matching circuit



Element	Value
E1	N/A
E2	OR
E3	N/A

### 4: Structural drawing



Electrical performance: 1. Frequency Range : 2400-2500MHz 2. VSWR: $\leq 2.0$		TOLERANCE TABLE		APPROVED: MAO LI PING		PRODUCT NAME: ANTENNA		VERSION: A0		Version		Date		Change Description		
Physical and chemical properties: 1. The solder pads must not have oxidation phenomenon		0~10	$\pm 0.10$	$\varnothing$	0.02	CLIENT NAME:	HONGJI	PROPORTION	1:1	By draft zoom	1/1	A0	2024-3-06	New Issue		
		10~20	$\pm 0.12$	$\odot$	0.03	CHECKED:	PENG JIAN PENG	PAGE SIZE								
		20~40	$\pm 0.15$	$\perp$	0.02	DRAWING:	ZHANG QING HUA	PAGE NUMBER								
		40~50	$\pm 0.20$	$\nabla$	0.04											
		50~100	$\pm 0.25$	$\nabla$	0.02											



## 5: Product picture

