

**SC-41-0.81 Black-L35mm- IPEX**

**(Generation)**

**2023.12.7**

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Deep Super Sample  
Signature

<b>Engineering</b> ENGINEERING DEPARTMENT	<b>Quality Assurance</b> Q C DEPARTMENT	<b>Business</b> SALES DEPARTMENT

Customer  
Acknowledgment  
Signature

<b>Engineering</b> ENGINEERING DEPARTMENT	<b>Quality Assurance</b> Q C DEPARTMENT	<b>Procurement</b> PURCHASING DEPARTMENT

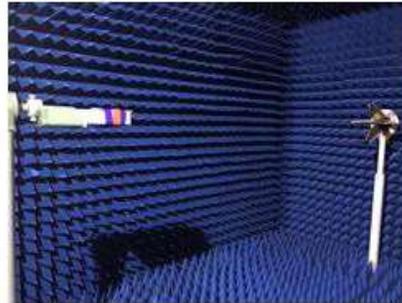
**Contact Phone:**

✂ **recognition of a 3, Huimeng your company recognized the signature.**

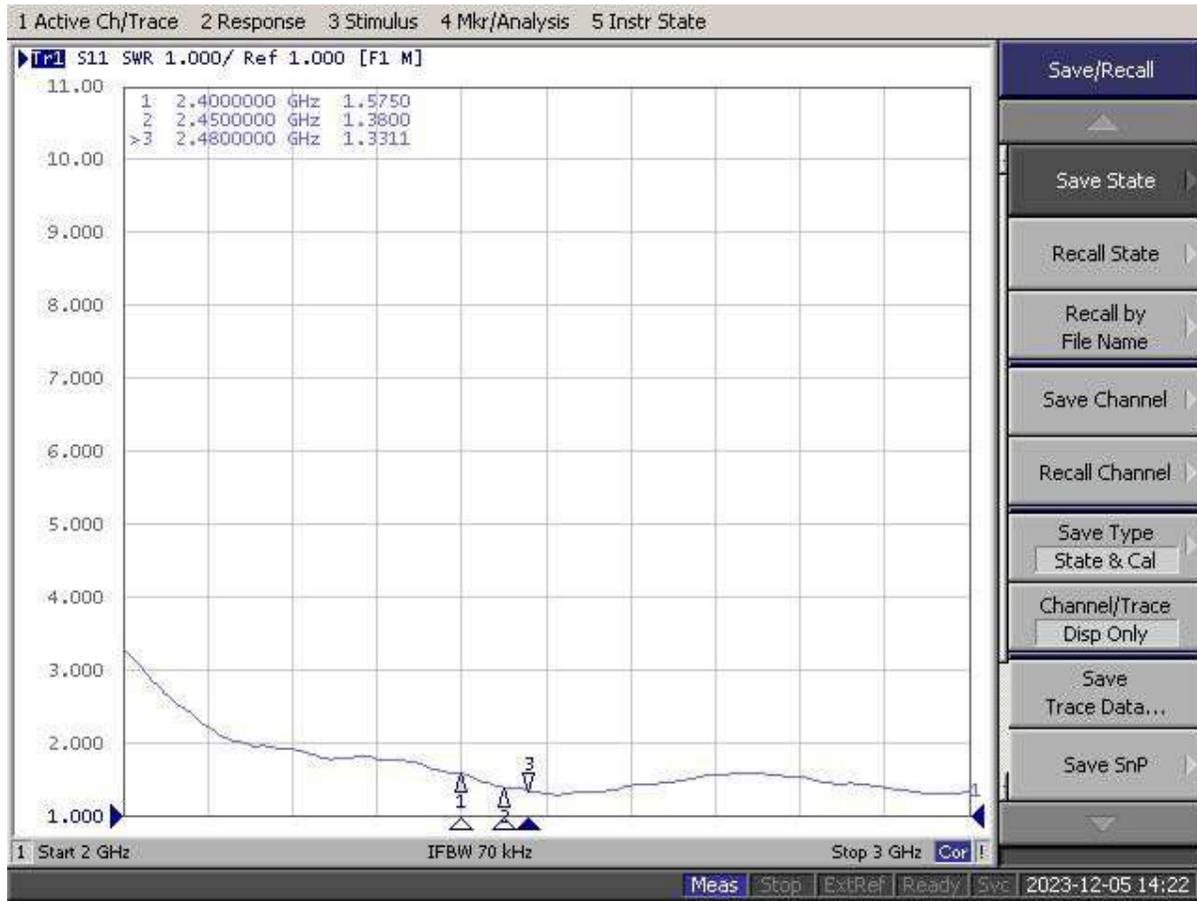
✂ **Approval in duplicate, please signed by your company.**

## 1. Test items and equipment

	Test Item	Equipment
1. S11 parameter (S-parameter)	1. Return Loss 2. Voltage Standing Wave Ratio (VSWR)	Network Analyzers: Agilent E5071B HP 8753D
2. Active testing (Active)	1. Transmit Power (TRP) 2. Receive Sensitivity (TIS)	1. Darkroom: ETS 7x 4x 3 m (3D) Chamber ETS 5x 3x 3 m (3D) Chamber 2. Comprehensive tester: Agilent 8960 E5515B × 2 StarPoint SP6011
3. Passive testing (Passive)	Antenna Gain (1) Antenna Efficiency (1 Efficiency)	1. Darkroom: ETS 7x 4x 3 m (3D) Chamber ETS 5x 3x 3 m (3D) Chamber 2. Network Analyzers: Agilent E5071B HP 8753D



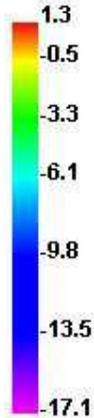
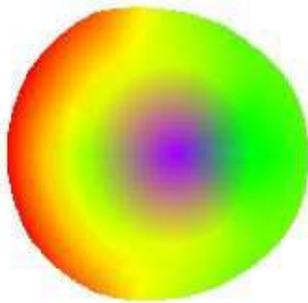
## 2. antenna performance



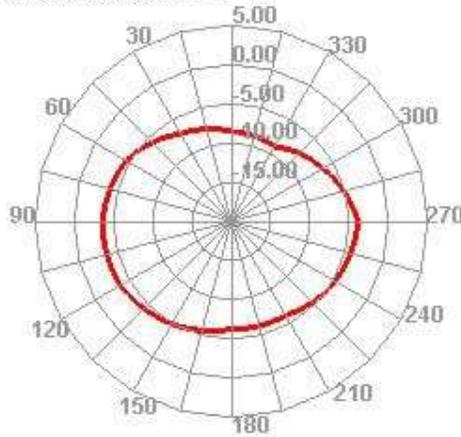
### 3. antenna gain and efficiency

Passive Test For WIFI			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	49.22	-3.08	1.3
2410	49.19	-3.08	1.23
2420	48.97	-3.1	1.12
2430	48	-3.19	1
2440	49.81	-3.03	1.21
2450	51.97	-2.84	1.44
2460	51.39	-2.89	1.4
2470	51.84	-2.85	1.43
2480	52.99	-2.76	1.48
2490	53.53	-2.71	1.45
2500	50.61	-2.96	1.1

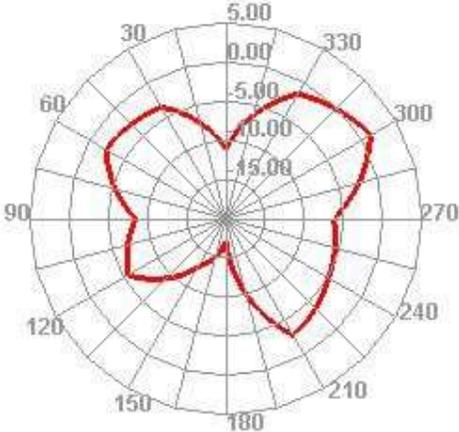
2400.000MHz



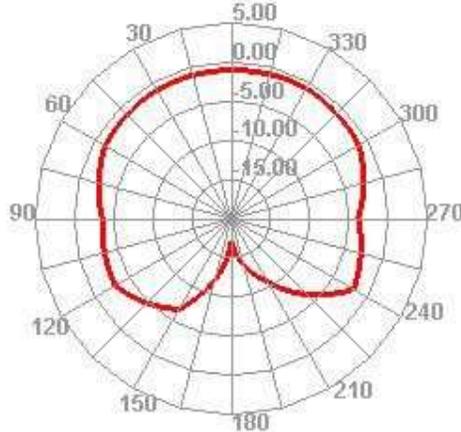
2400.000MHz H



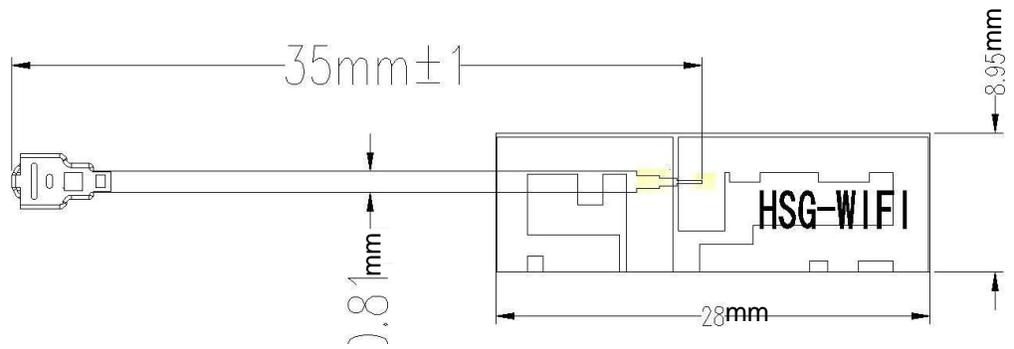
2400.000MHz E1



2400.000MHz E2



4. antenna structure diagram:



## Electrical technical parameters

electrical performance index		Electrical Specifications	
Frequency range	2400~2500MHz	Frequency Range	2400~2500MHz
voltage standing wave ratio	&le; 2.0	VSWR	&le; 2.0
input impedance	50Ω;	Input Impedance	50Ω;
Gain	1.48dBi	Gain	1.48dBi
radiation direction	Omni-directional	Radiation direction	omnidirectional
Mechanical index		Mechanical Specifications	
Wire color	Black	Antenna Color	Black
Interface form	IPEX	Input connector	IPEX
Antenna line length	35mm	Cable length	35mm
Working temperature	-40 ℃ ~ +85 ℃	Working Temperature	-40 ℃ ~ +85 ℃
Working humidity	20-80%	Working Humidity	20-80%
Antenna Type	FPC	Antenna Type	FPC