253, Floor 5, Unit 2, Building 5, Hounancang, Tongzhou District, Beijing

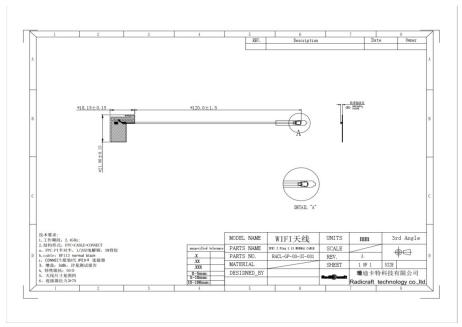
SPECIFICATION

Customer		Hexagon	Project		
Frequency Band		WIFI	P/N		RACL-GP-00-3I-001
Test Date		2023.06.16	Version		A0
TEST Personnel		宋文华			
Radiocraft					
Checked	RF		Design	RF	宋文华
by	ME		by	ME	徐雷
Remark			Remark		

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1. OUTLINE DRAWING AND DIMENSIONS

1.1 Dimensions



1.2 Picture



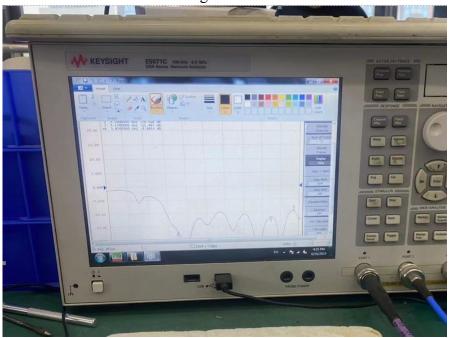
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1.3 Antenna Type

FPC antenna.

2 TEST

- 2.1 Test setup
- ① The return loss was measured with Agilent E5071.



② The efficiency and gain were measured in MVG-SATIMO Chamber





MVG chamber and measurement system

3 Measurement equipment description

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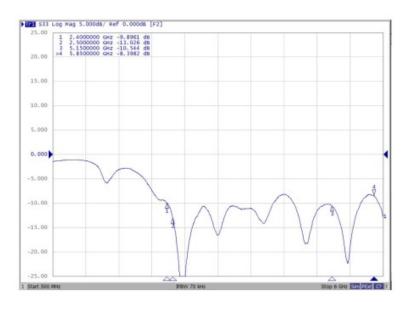
Description Manufacturer	Model No	Serial No	Calibrated Date	Calibrated Until
Agilent	E5071C	MY46316132	2023/1/13	2024/1/13
SATIMO MVG	SG64	1103277-0001	2023/1/16	2024/1/16
Test software	WaveStudio	2020.2.8		
Analyze software	Satenv	3.0.3.0.23		

2.2 Test step

- ① The instrument is powered on and preheated for more than 30 minutes;
- ② Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3 Outline sets the test content objectives and conducts calibration tests;
- Run the software, when the test is completed, export the corresponding test diagram and testdata, and save to
 the corresponding directory.

3. Electrical Performance

3.1. Return Loss

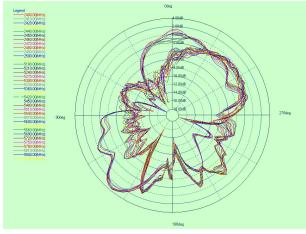


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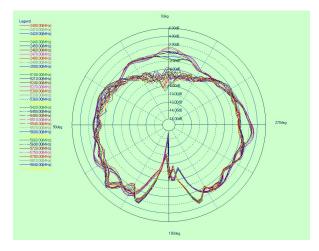
3.2 Efficiency and Peak Gain

Frequency (MHz)	Efficiency(%)	Peak gain	Frequency(MHz)	Efficiency(%)	Peak gain
2400	69%	3.01	5360	64%	3. 67
2410	68%	2.93	5390	64%	3. 51
2420	69%	2.87	5420	65%	3.81
2430	70%	3.08	5450	66%	3.75
2440	72%	3.48	5480	64%	3.83
2450	72%	3.54	5510	66%	3. 98
2460	73%	3. 52	5540	63%	3.86
2470	75%	3.44	5570	63%	3.86
2480	76%	3.64	5600	64%	<mark>4. 02</mark>
2490	76%	3.63	5630	61%	3.78
2500	74%	3.58	5660	63%	3.97
5150	61%	3.08	5690	63%	3.88
5180	63%	3. 32	5720	59%	3. 76
5210	64%	3. 13	5750	59%	3.80
5240	64%	3.21	5780	58%	3.72
5270	63%	3. 29	5810	58%	3.88
5300	62%	3. 27	5840	59%	3.82
5330	62%	3. 3 <mark>7</mark>	5850	58%	3.75

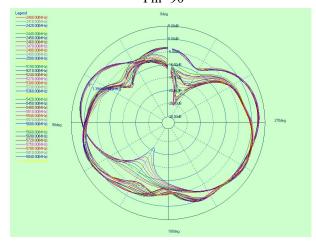
3.3 2D Pattern



Phi=0



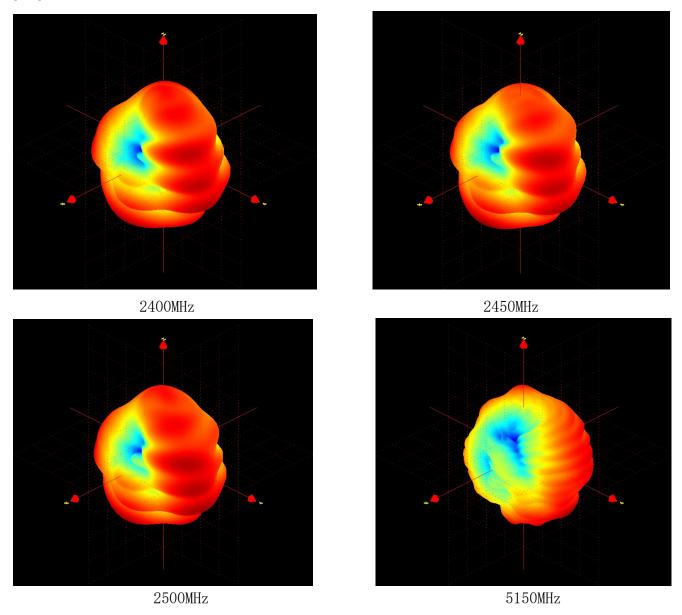
Phi=90



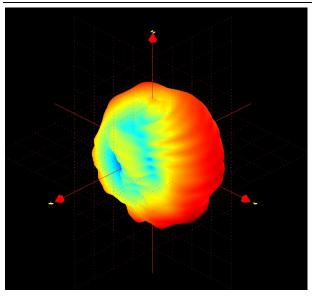
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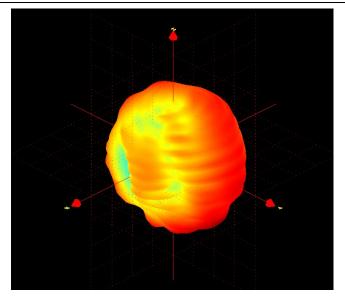
Theta=90

3.4 3D Pattern



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5510Mhz 5850Mhz

4.Parameter

Electrical

Antenna Model	2.4G&5G FPC antenna
Frequency	2400-2500MHz&5150-5850 MHz
Impedance	50 Ω
Polarization	Omnidirectional
Antenna Gain	Max Gain 2.4G: 3.64 & 5G Max Gain:
	4.02
S.W.R	<2

Mechanical

Cable	RF113
Connector	I-PEX 20278-112R-13
Length	120mm
Operation Temperature	-40° C ∼80° C

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