

Antenna Specification

Manufacture: 帝光

Product Name: 12key Antenna

Antenna Type: PCB

Test Date: 2023.11.24

Tested by: Yinhua Zhang

Approved by: Licco

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1.General Description

Manufacturer	佛山帝光光电科技有限公司
Address	高明荷城街道富盛路10号
Test Location	高明荷城街道富盛路10号
Product Name	12key Antenna
Product model	12key Antenna
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2412-2472MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

2.1 Test Environment

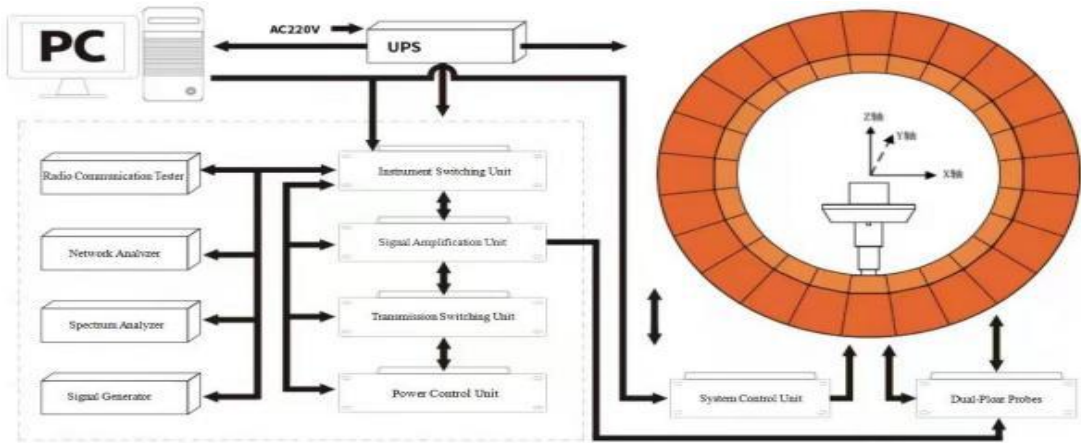
Temperature (°C)	25
Humidity (%RH)	60
Atmospheric Pressure (kPa)	100.5

备注：

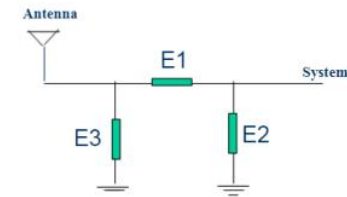
2.2 Test Equipment

Test System	TEM 24 Multi-probe Microwave Chamber
Test Instrument	Agilent E5071B

2.3 Test Principle

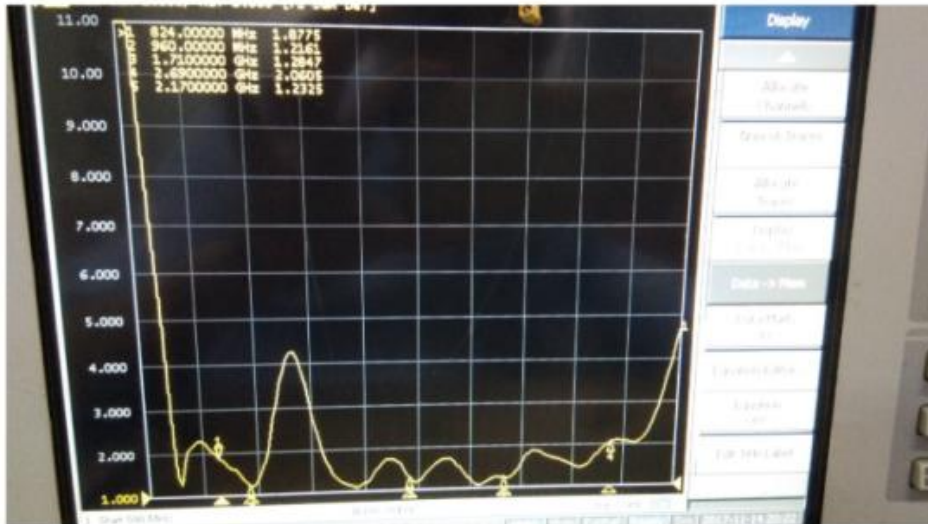


匹配电路



备注：我司未对天线前端匹配做更改。

天线无源测试-S11/SWR



Freq(MHz)	824	960	1710	2170	2690
S11/SWR	1.87	1.21	1.28	1.23	2.06

Freq (MHz)	Effi (%)
2412	32.36
2420	32.3
2425	32.1
2450	30.7
2472	30.5

3.Test Results

3.1 Gain and Efficiency

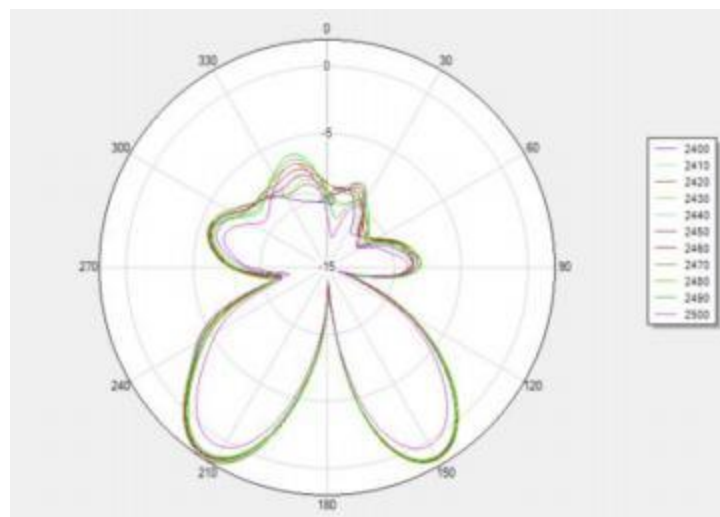
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2412	1.11	32.36
2420	1.18	32.3
2425	1.21	32.1
2430	1.06	32.4
2435	1.07	32.9
2440	1.31	30.9
2445	1.04	30.8
2450	1.09	30.7

佛山帝光光电科技有限公司

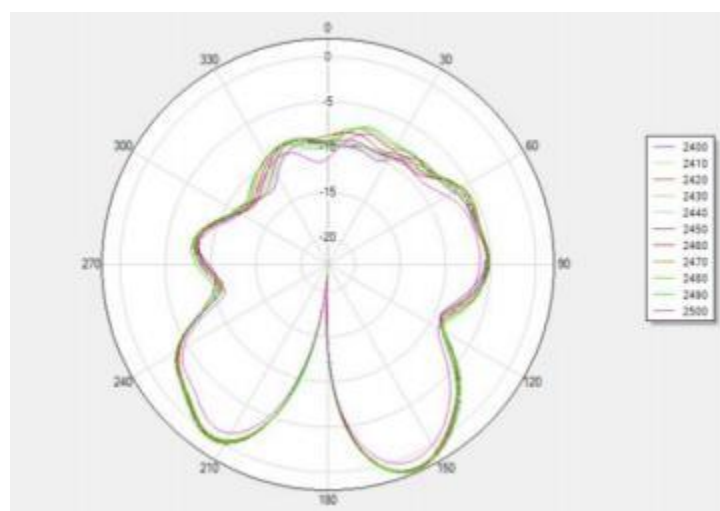
2455	1.18	31.6
2460	1.41	30.6
2472	1.03	30.5

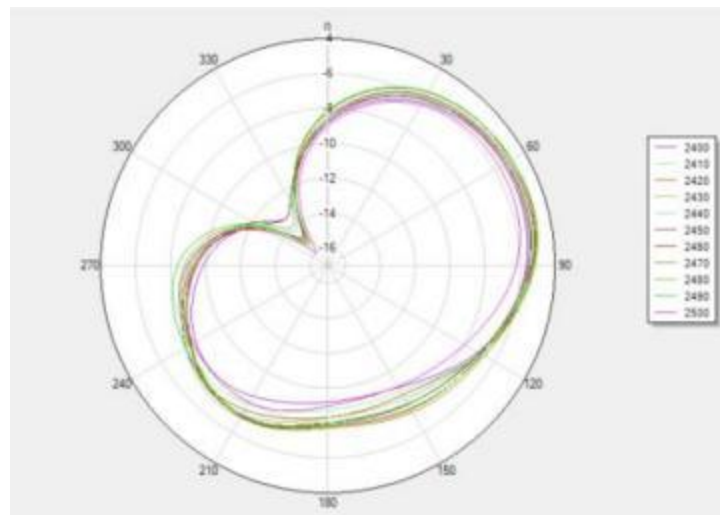
3.2 Radiation Pattern

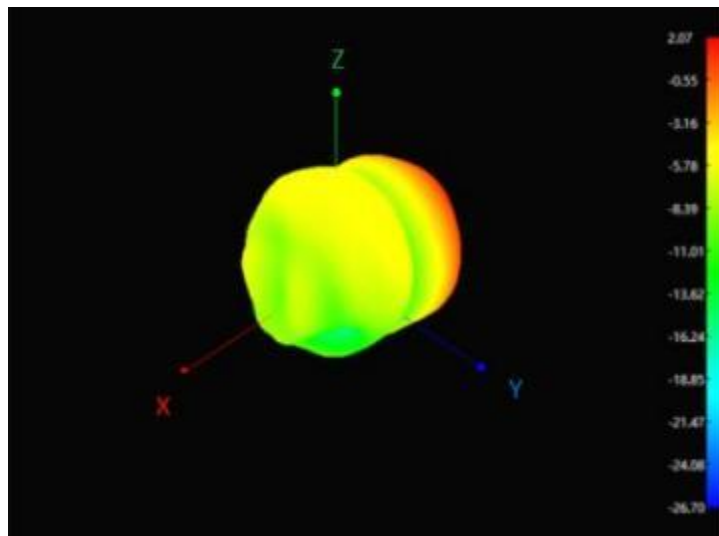
Phi 0 2D



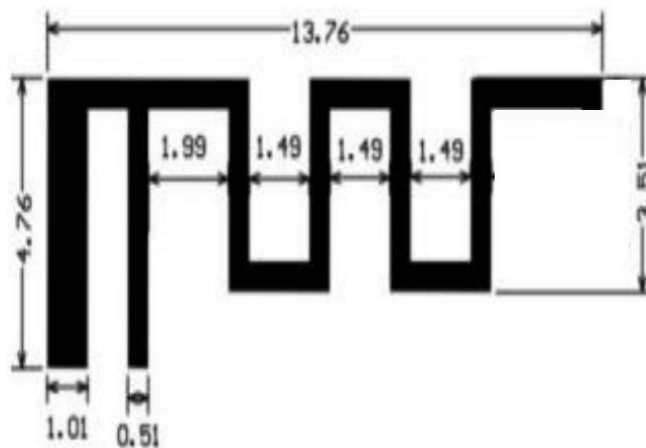
Phi 90 2D







4. Antenna Dimensions



单位: mm

Unit

5. EUT Photo



6.Test Setup Photo

