深圳市星飞电子科技有限公司

Antenna Test Report

For 华创时代

2.4G WiFi FPCB 天线

（机台 4#）

Customer	**华创时代**	**Project**	
Band	**2.4G**	**Color**	
Company code		**Version**	**FPCB**
Issued by	周文彬	**Checked by**	
Confirmed by		**Date**	**2020.10.26**

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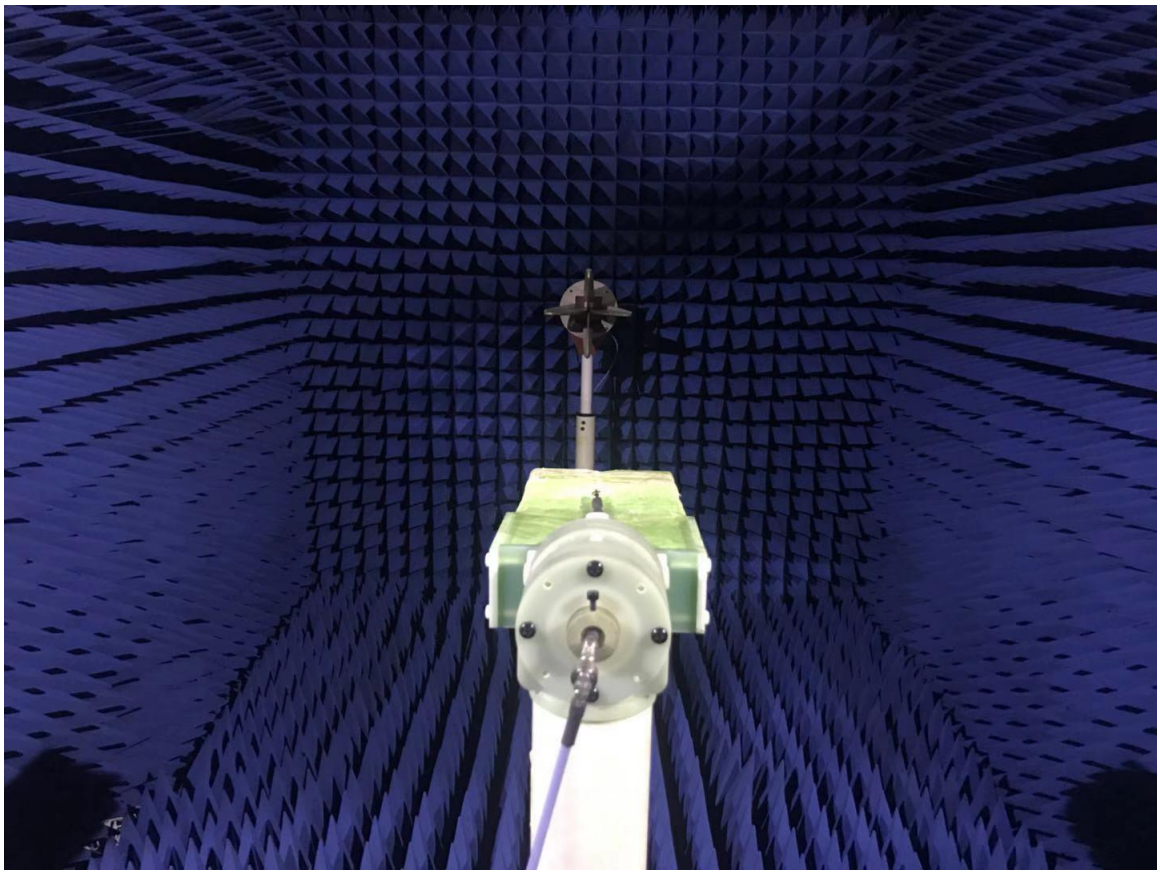
一. Radiation pattern

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

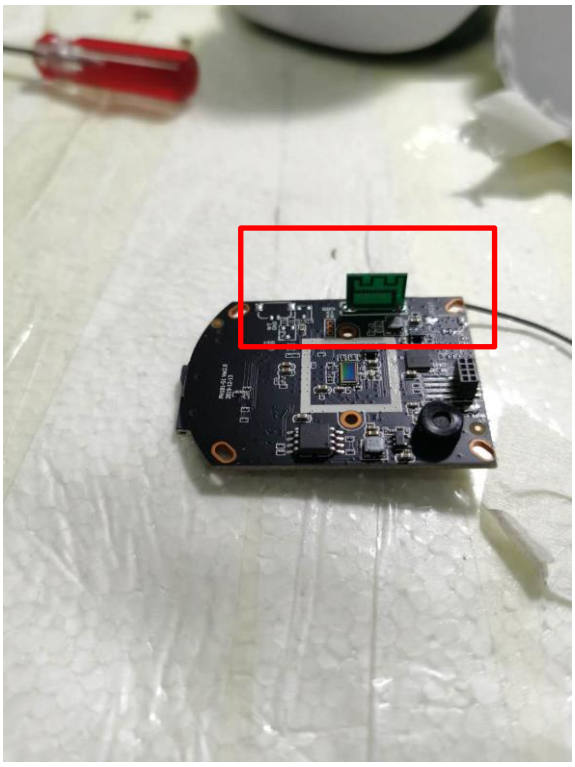
The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy

main performance ：

Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)



二． Assembly description



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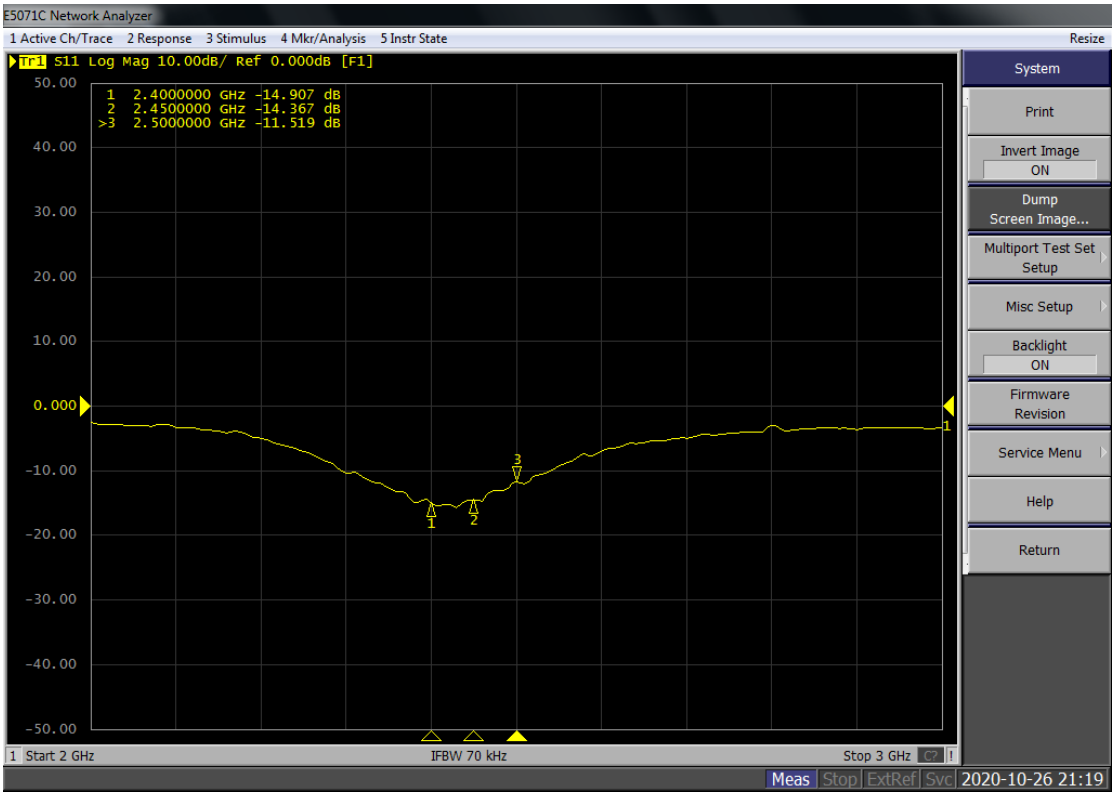
三. Passive parameter test

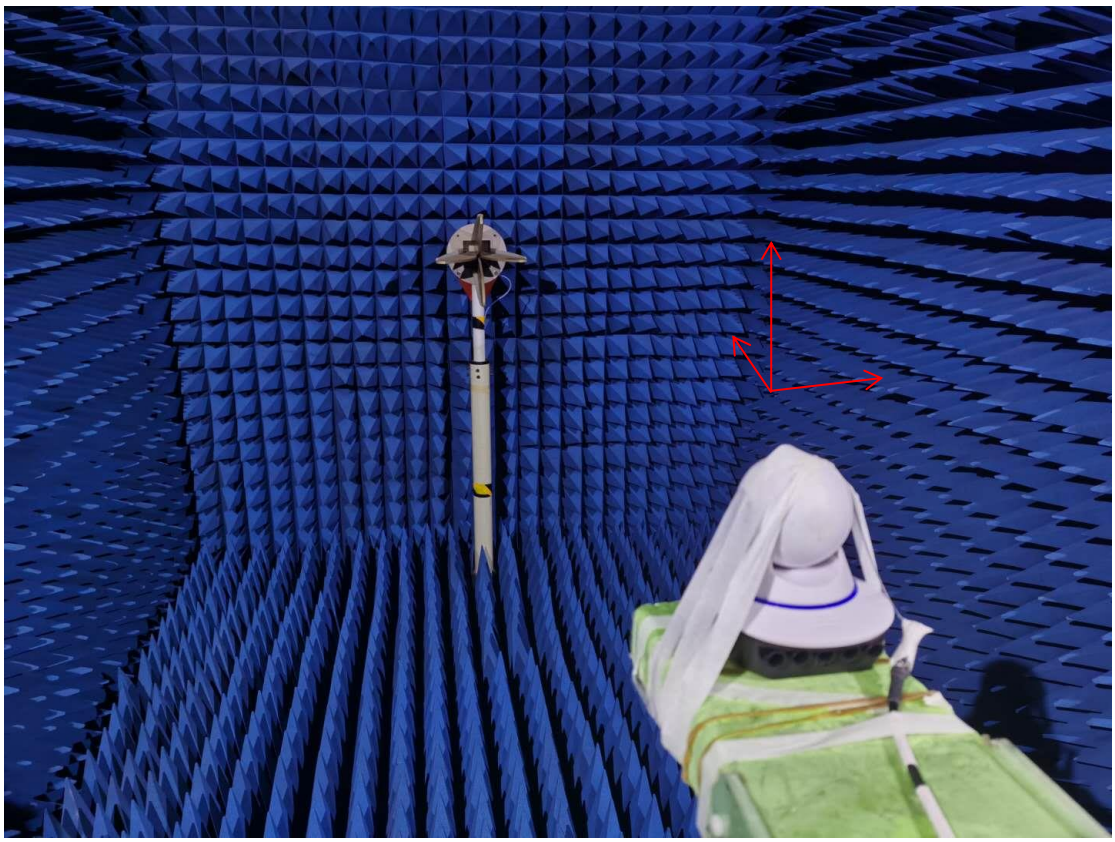
3.1 Return loss

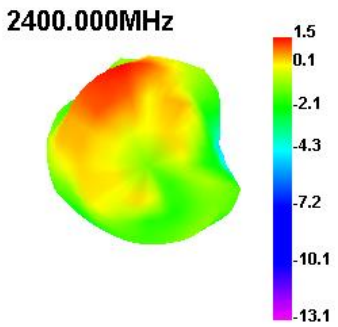


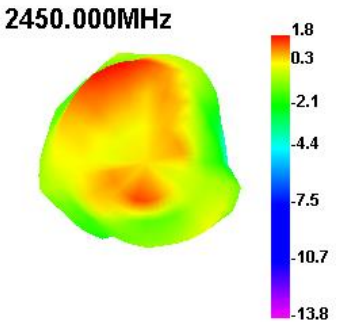
3.2 Efficiency and Gain

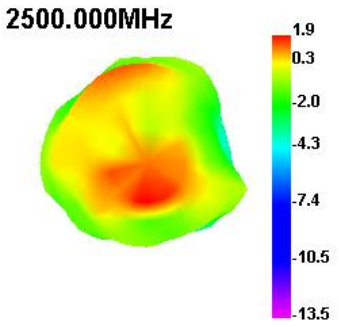
Freq (MHz)	Effi (%)	Gain (dBi)
2400	48.13	1.52
2410	52.79	1.87
2420	54.52	2
2430	53.78	1.88
2440	53.61	1.81
2450	54.15	1.81
2460	55.37	1.84
2470	57.81	1.99
2480	57.92	2.14
2490	57.98	2.19
2500	53.49	1.89

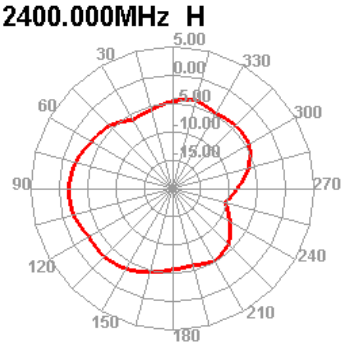
3.3 2D / 3D Patterns

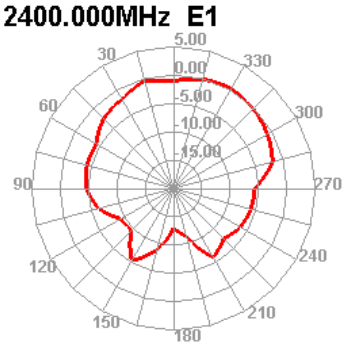


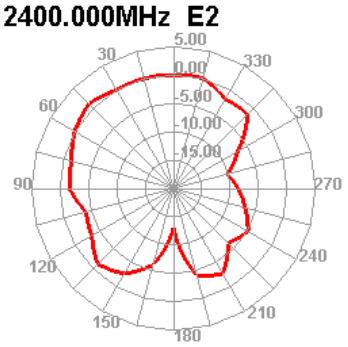


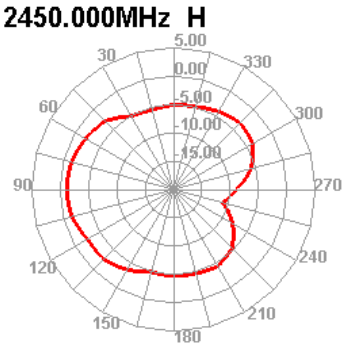


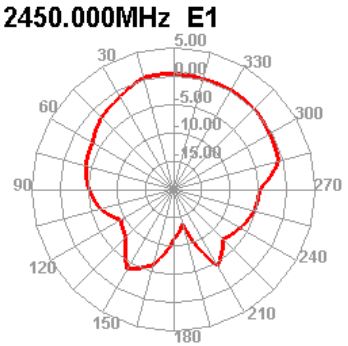


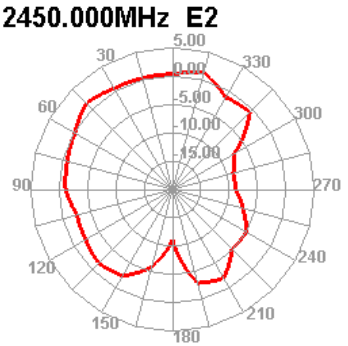


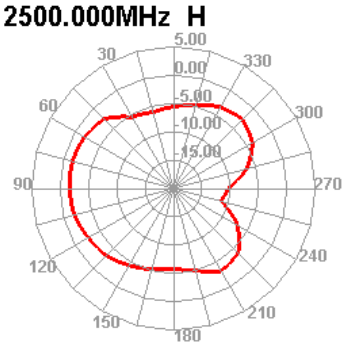


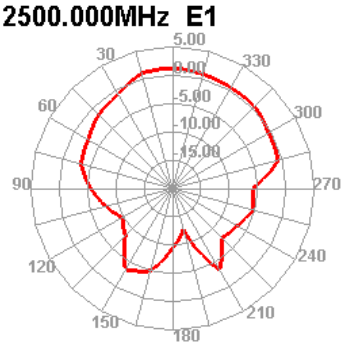


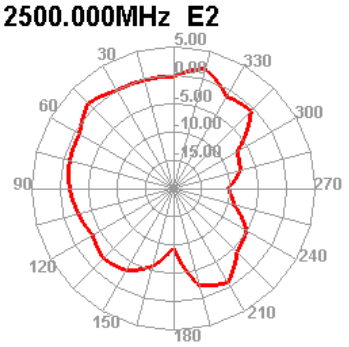












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