



普尔信通讯科技(深圳)有限公司

Percsson Communication Equipment Co., Ltd

Room 401, Building A5, 727 Science and Technology Innovation Park, No. 727, Zhoushi Road, Hezhou Community, Hangcheng Subdistrict, Bao 'an District, Shenzhen City

# Antenna Test Report

For

ESP-C12F

<b>Customer</b>	深圳四博智联科技有限公司	<b>Project</b>	<b>ESP-C12F</b>
<b>Band</b>	<b>WIFI/BT</b>	<b>Color</b>	黑色
<b>PRS PN</b>		<b>Version</b>	V1.0
<b>Issued by</b>	<b>Jason</b>	<b>Checked by</b>	Mem
<b>Confirmed by</b>	<b>Zhang</b>	<b>Date</b>	<b>2023.04.01</b>

## 一. TEST INSTRUMENTATION

CHAMBER	SATIMO Chamber
Wireless Networking Test Set	Agilent 8960 5515C
NETWORK ANALYZER	Agilent 8753D
TEMPERATURE	20±2 °C
HUMIDITY	50±20%rh

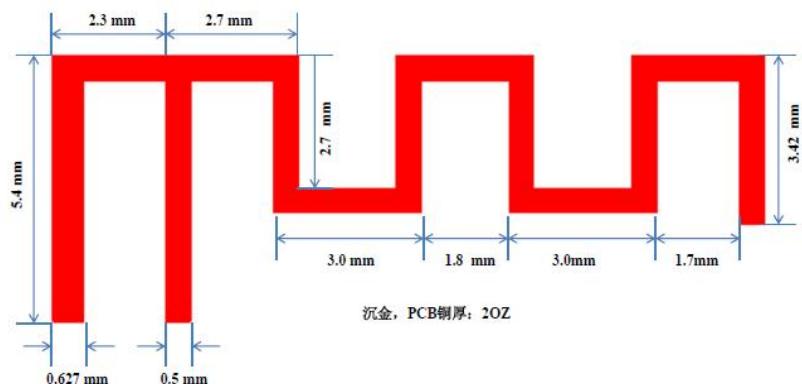


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ESPC3-12 WiFi Module



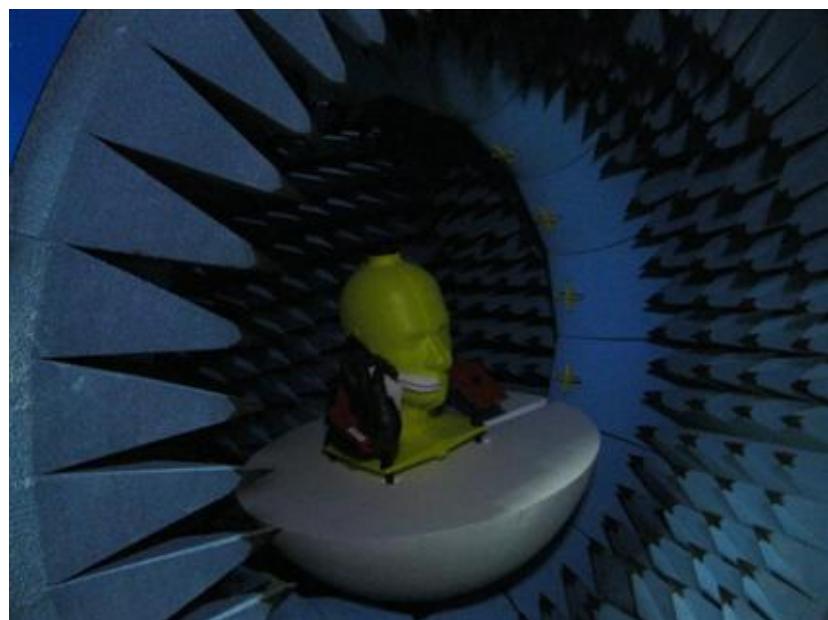
Antenna Dimension for ESPC3-12

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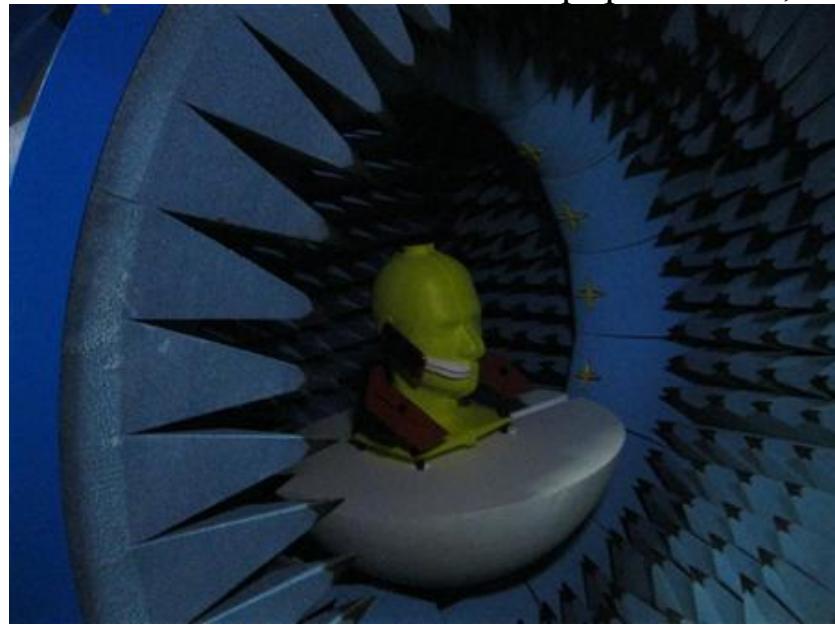


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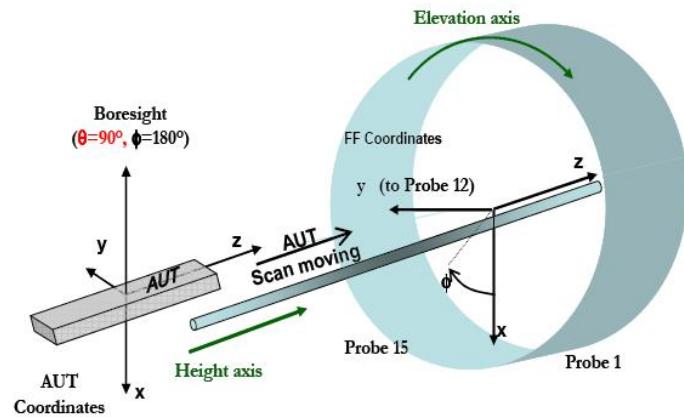
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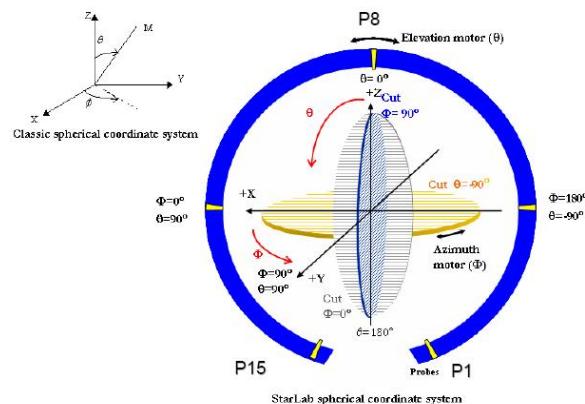
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### Coordinate system – Cylindrical geometry



### Coordinate system – Spherical geometry



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## 二. Definitions

VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

	WIFI
VSWR	1.1

主天线驻波比:



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## 主天线无源效率测试

### WIFI/BT:

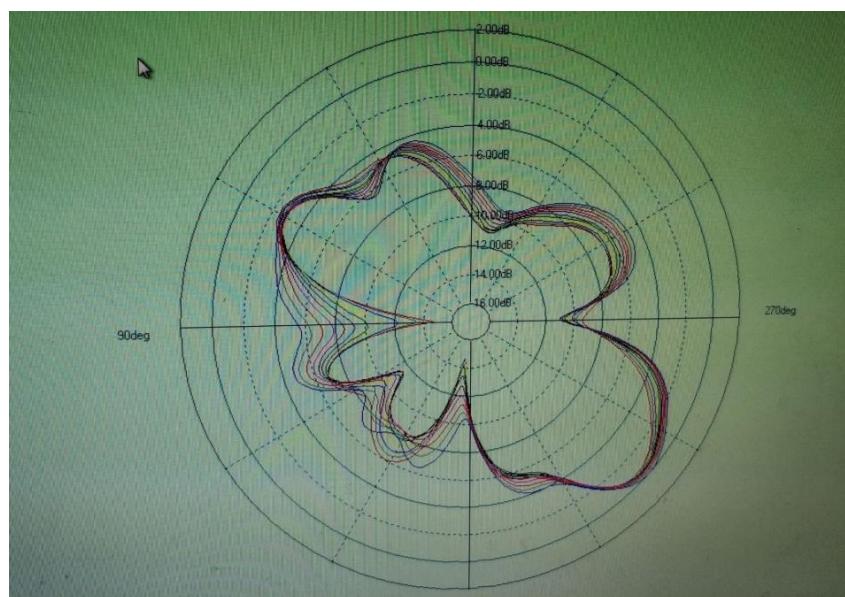
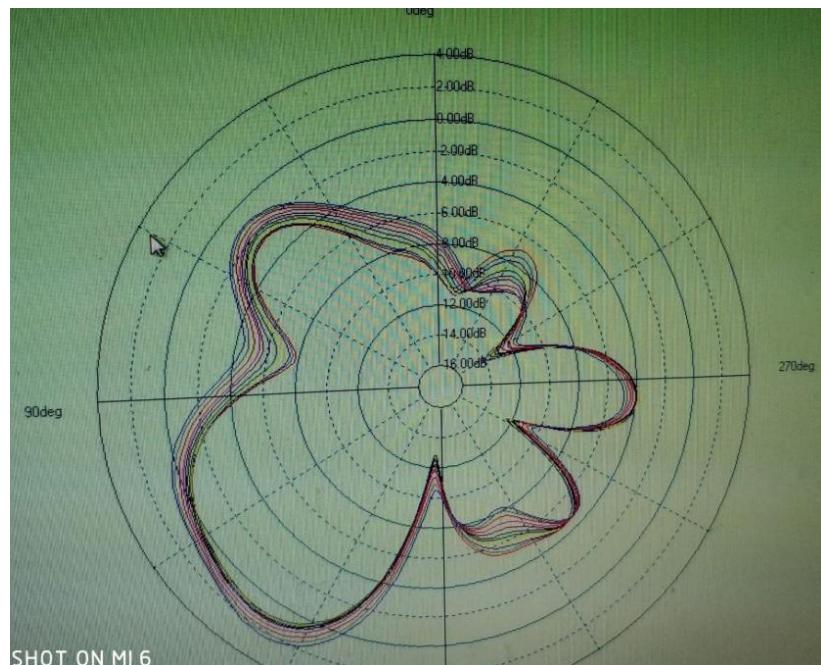
Freq (MHz)	Effi (%)	Gain (dBi)
2400	30. 91	1. 76
2410	30. 74	1. 75
2420	31. 4	1. 78
2430	32. 06	1. 78
2440	32. 66	1. 72
2450	33. 14	1. 59
2460	33. 31	1. 48
2470	33. 49	1. 47
2480	33. 81	1. 88
2490	33. 79	2. 17
2500	33. 38	2. 00

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无源方向图:

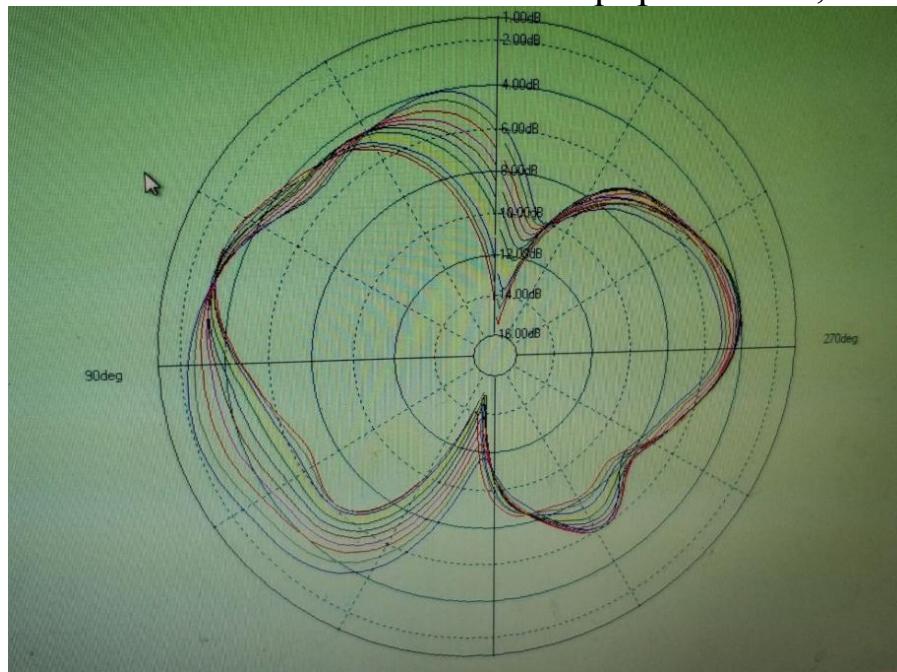


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