



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

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

一. TEST INSTRUMENTATION

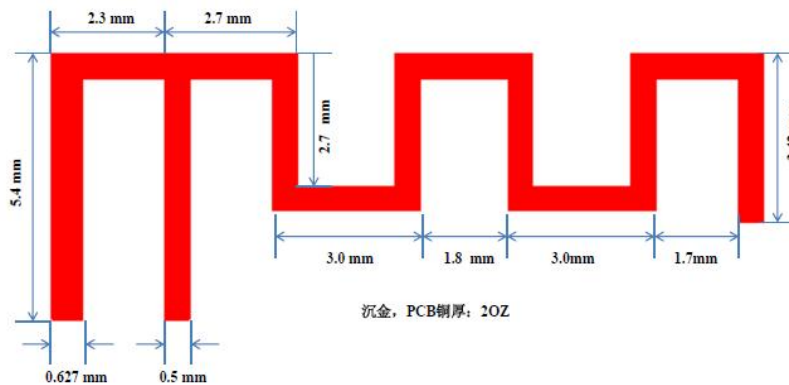
| | |
|-------------------------------------|---------------------------|
| CHAMBER | SATIMO Chamber |
| Wireless Networking Test Set | Agilent 8960 5515C |
| NETWORK ANALYZER | Agilent 8753D |
| TEMPERATURE | 20±2℃ |
| HUMIDITY | 50±20%rh |



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ESPC3-12 WiFi Module



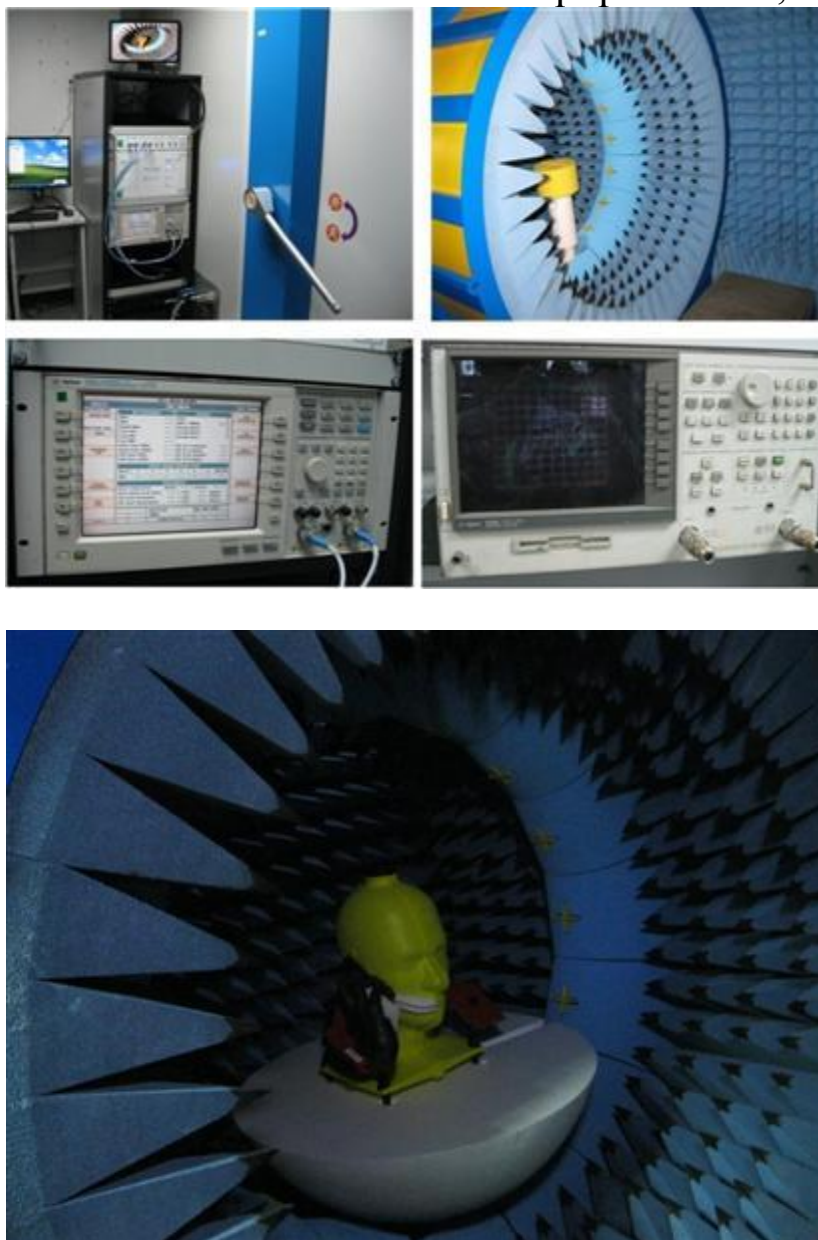
Antenna Dimension for ESPC3-12

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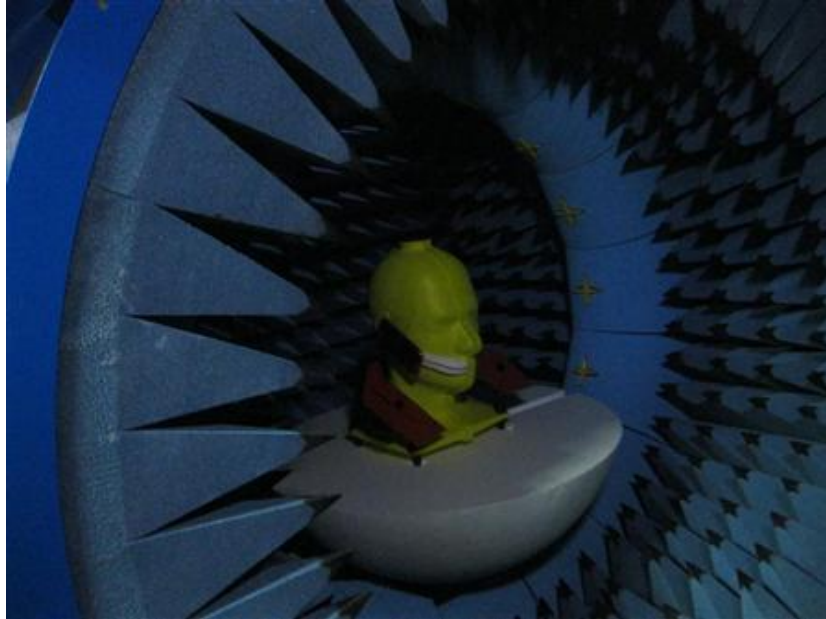


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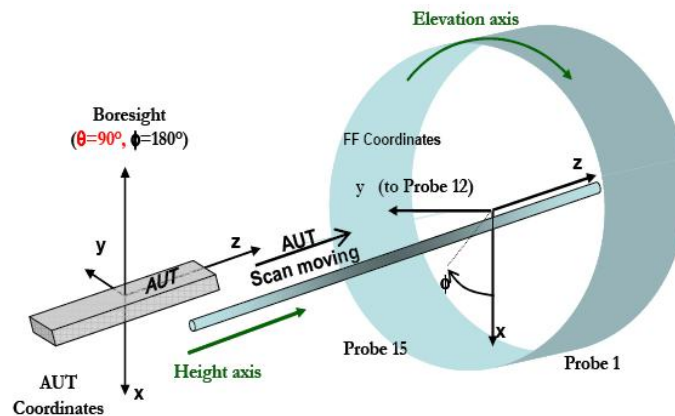


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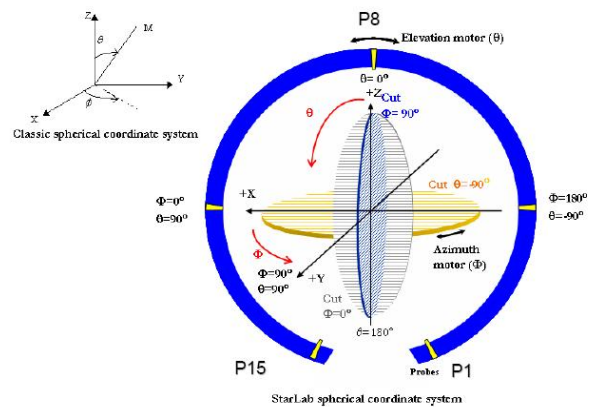
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Coordinate system – Cylindrical geometry



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 |

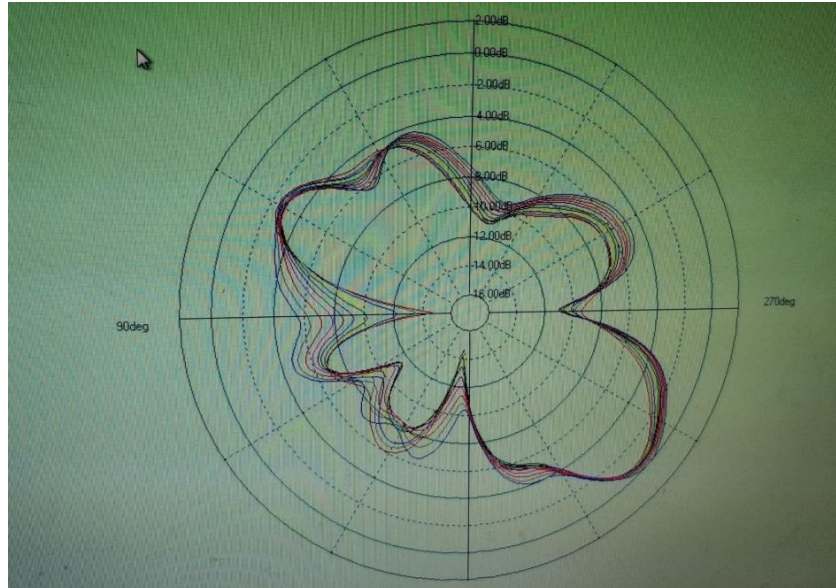
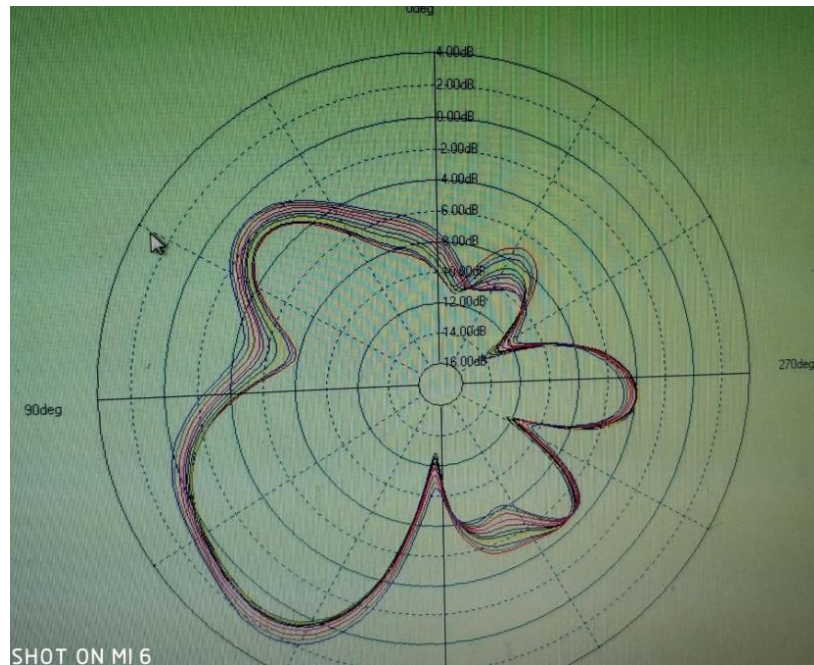
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无源方向图:

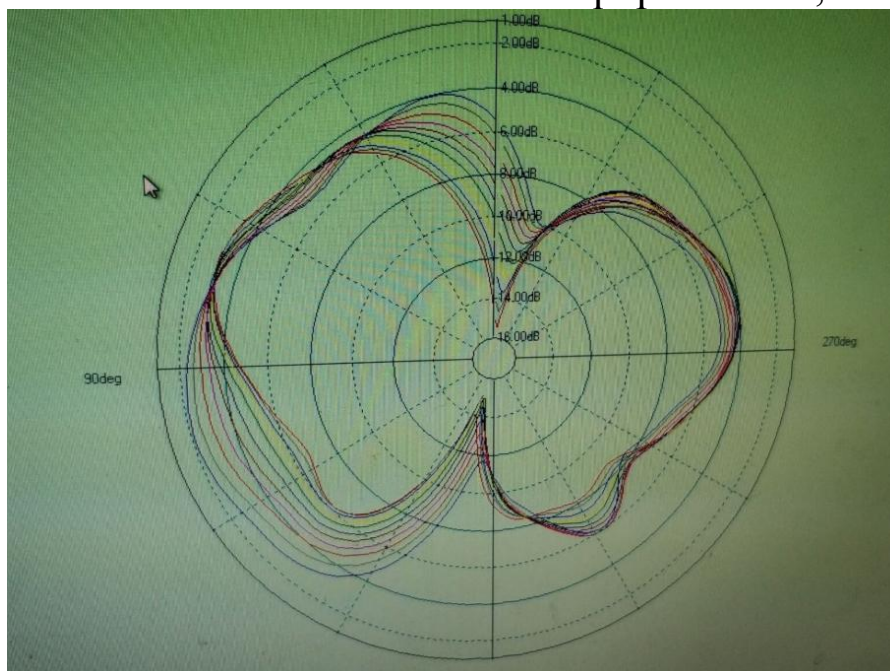


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