



Antenna Test Report

Client: LIYI Technology
Project: DSP156
Type: 2.4G/5G WIFI FPC Antenna
Date: 2022-08-19
Version: V1

| APPROVAL | CHECK | DESIGN |
|----------|-------|--------|
| 顾军 | 刘黎明 | 张子豪 |



contents

1. Project profile
2. Laboratory test environment and equipment
3. Project information
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Lab Test environment



CMW500



E5071B

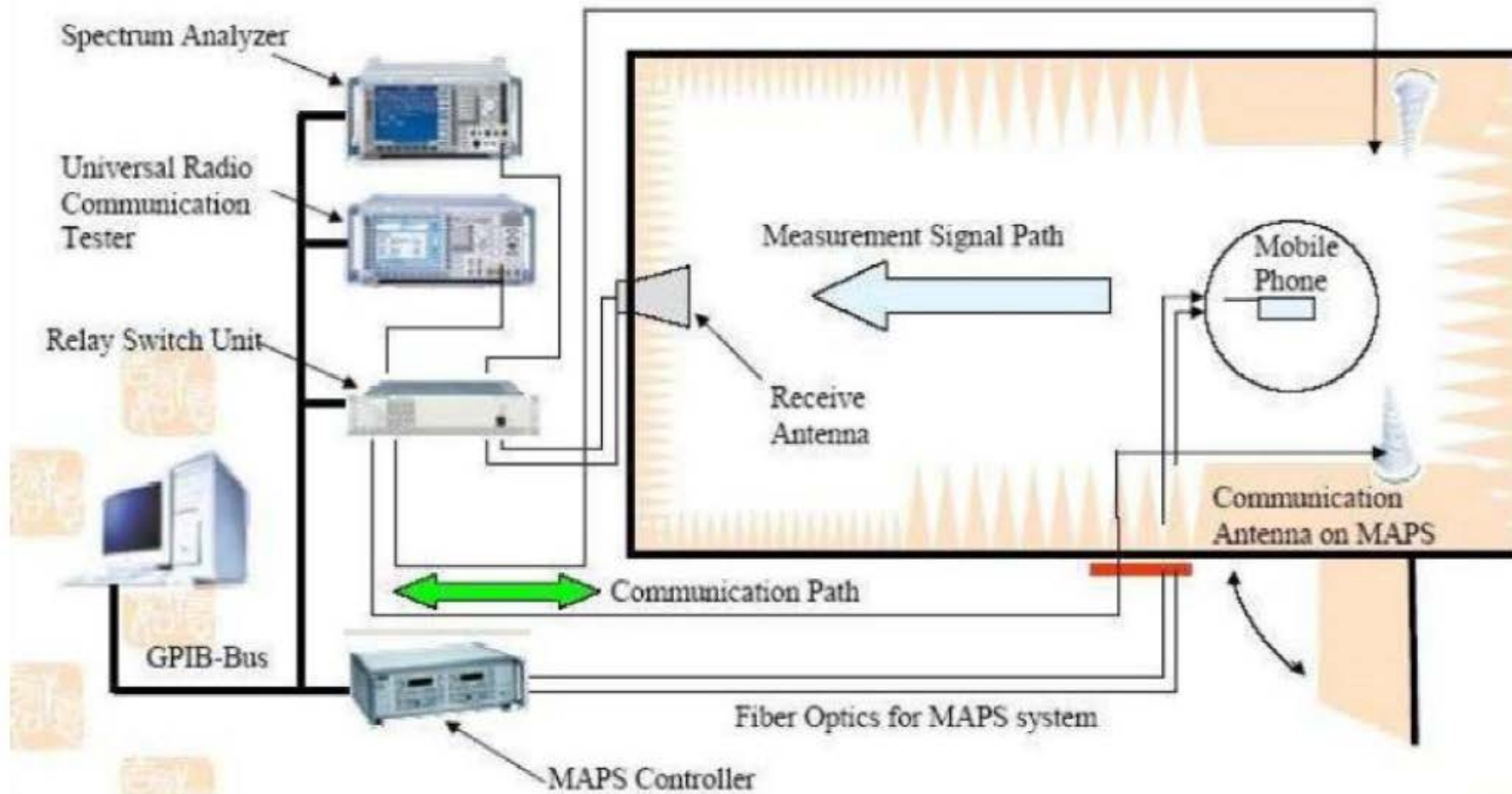


Agilent 8960





Anechoic Chamber Test environment





Introduction of DUT

| DUT Type | Display Screen Equipment | | |
|------------------------------|--------------------------|-----------------------|---------------------|
| Antenna and frequency | Antenna | frequency band | Test item |
| | 2.4G WIFI | 2400MHz~2500MHz | SWR/Efficiency/Gain |
| | 5G WIFI | 5150MHz-5850MHz | |
| | | | |
| | | | |
| | | | |
| Type of antenna | FPC+Coaxial cable | | |

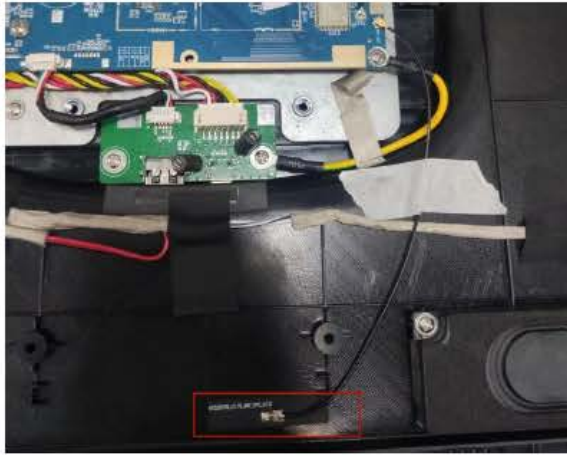


Introduction of DUT



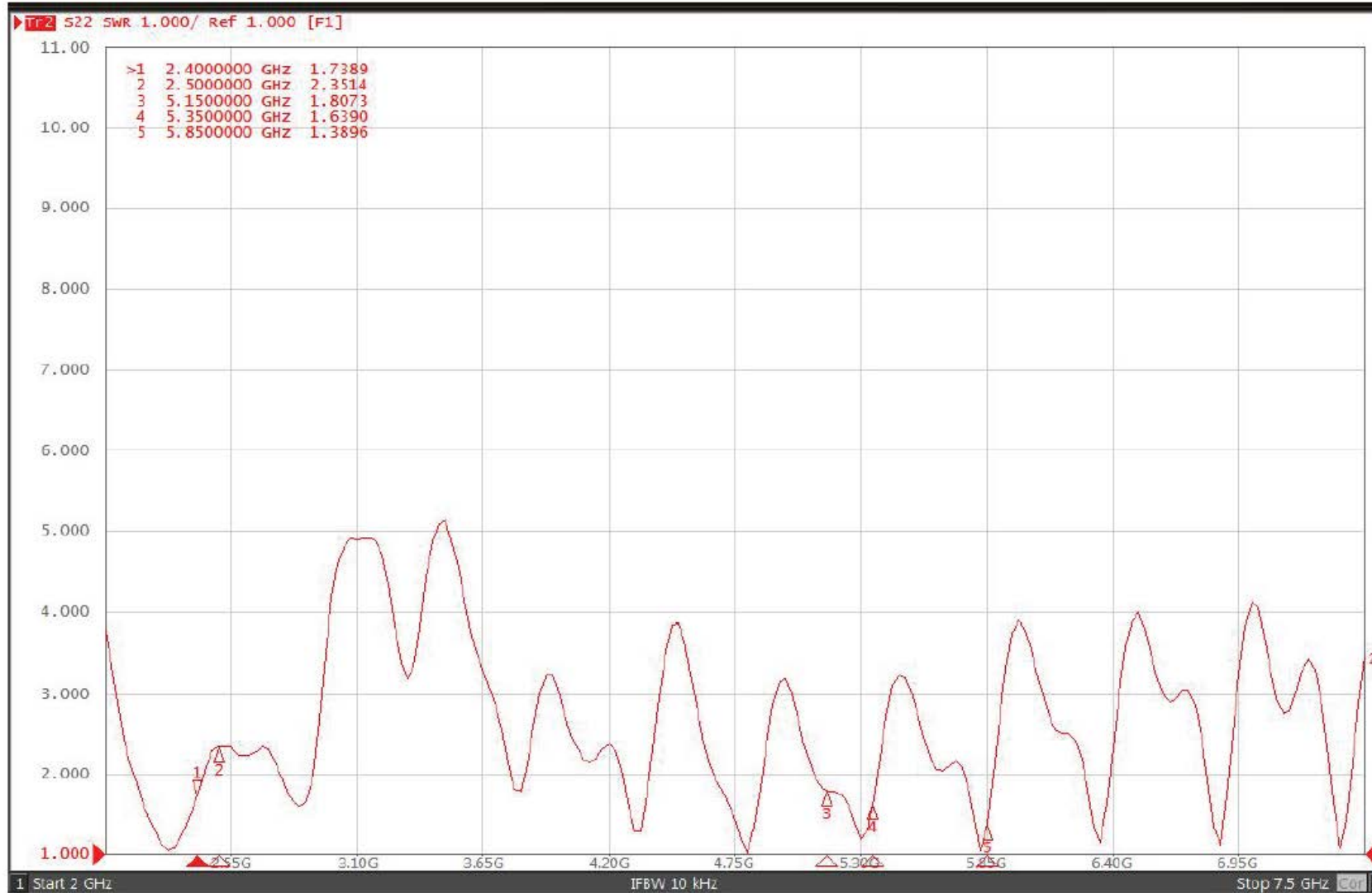


ANT Location





Standing Wave



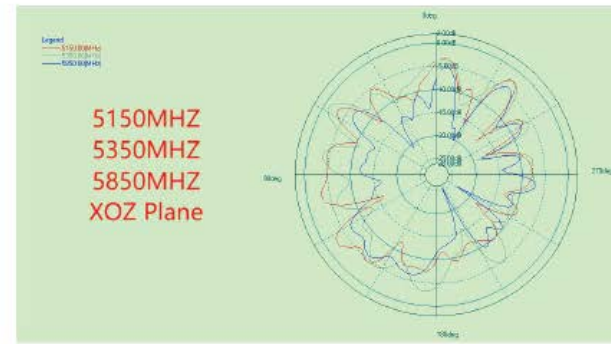
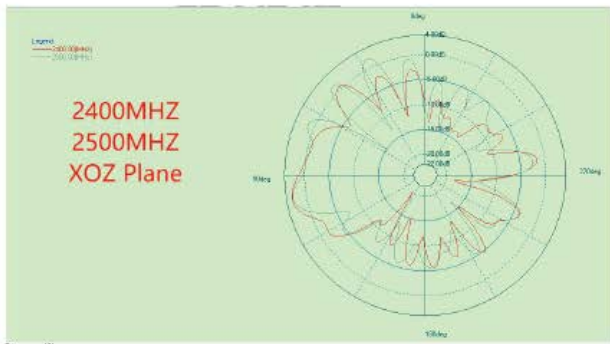
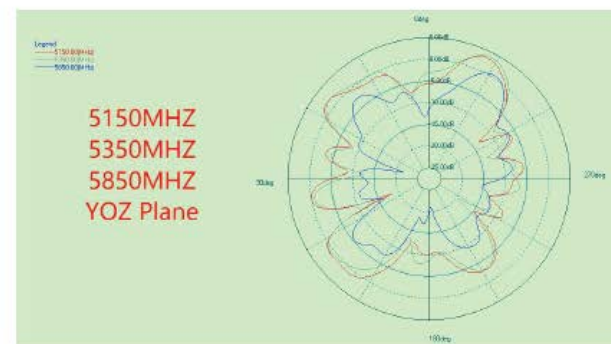
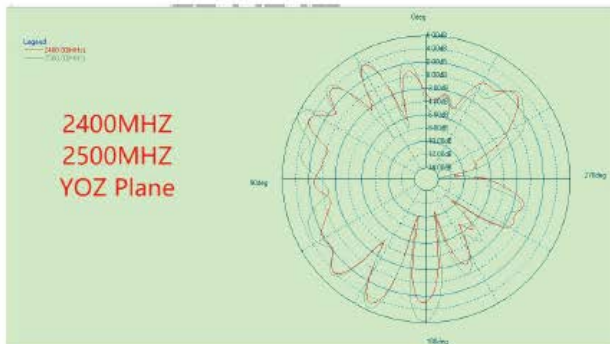
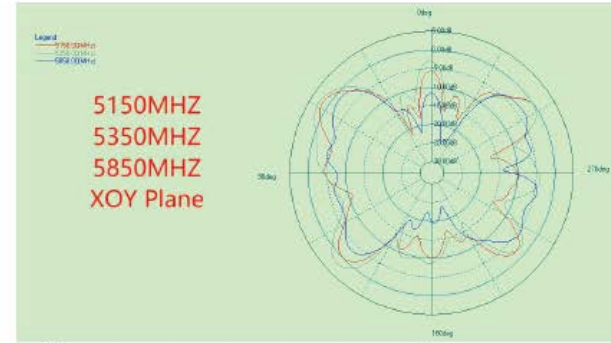
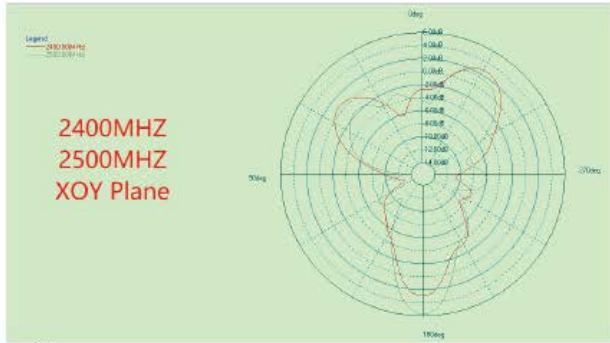


Efficiency

| Frequency | Efficiency | Efficiency (%) | E Total |
|-----------|------------|----------------|---------|
| 2400MHz | -2.70 | 53.68 | 5.81 |
| 2425MHz | -2.83 | 52.15 | 6.27 |
| 2450MHz | -2.91 | 51.13 | 6.10 |
| 2475MHz | -3.04 | 49.66 | 6.62 |
| 2500MHz | -3.14 | 48.58 | 6.66 |
| 平均 | -2.92 | 51.04 | 6.29 |
| 5150MHz | -3.75 | 42.16 | 3.34 |
| 5175MHz | -3.53 | 44.31 | 3.09 |
| 5200MHz | -3.83 | 41.38 | 3.11 |
| 5225MHz | -3.76 | 42.09 | 4.15 |
| 5250MHz | -3.53 | 44.38 | 3.78 |
| 5275MHz | -3.75 | 42.16 | 4.49 |
| 5300MHz | -4.02 | 39.67 | 3.58 |
| 5325MHz | -4.07 | 39.21 | 4.39 |
| 5350MHz | -4.34 | 36.84 | 3.86 |
| 5375MHz | -4.48 | 35.61 | 4.05 |
| 5400MHz | -4.79 | 33.20 | 3.09 |
| 5425MHz | -5.09 | 30.96 | 4.02 |
| 5450MHz | -5.11 | 30.84 | 3.05 |
| 5475MHz | -4.86 | 32.69 | 4.27 |
| 5500MHz | -4.98 | 31.74 | 3.39 |
| 5525MHz | -4.88 | 32.52 | 2.52 |
| 5550MHz | -4.40 | 36.33 | 3.22 |
| 5575MHz | -4.14 | 38.59 | 2.88 |
| 5600MHz | -4.07 | 39.21 | 2.86 |
| 5625MHz | -4.20 | 38.06 | 3.21 |
| 5650MHz | -4.25 | 37.61 | 1.56 |
| 5675MHz | -4.18 | 38.22 | 1.84 |
| 5700MHz | -4.36 | 36.66 | 0.62 |
| 5725MHz | -4.48 | 35.67 | 0.78 |
| 5750MHz | -4.40 | 36.29 | 1.18 |
| 5775MHz | -4.37 | 36.55 | 0.64 |
| 5800MHz | -4.13 | 38.68 | 0.99 |
| 5825MHz | -4.15 | 38.43 | 0.46 |
| 5850MHz | -3.97 | 40.13 | 0.65 |
| 平均 | -4.27 | 37.59 | 2.73 |



2D





3D

2400MHZ

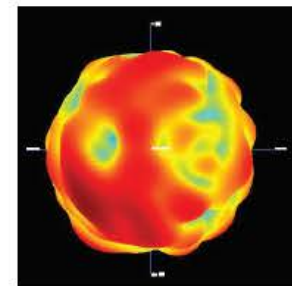
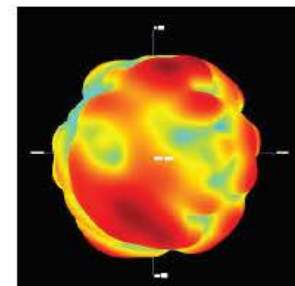
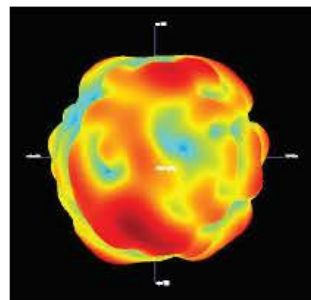
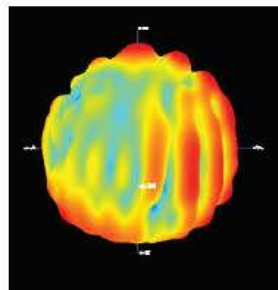
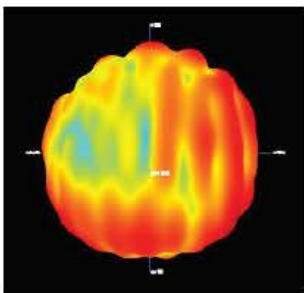
2500MHZ

5150MHZ

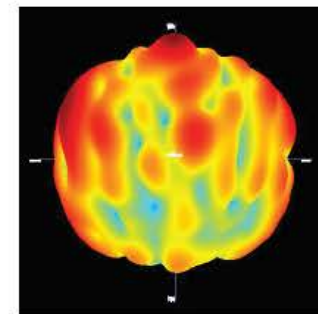
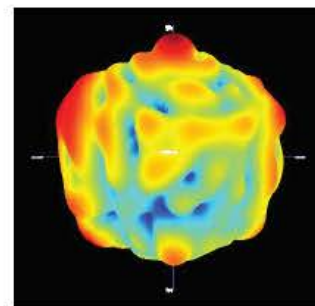
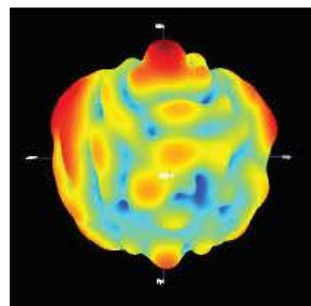
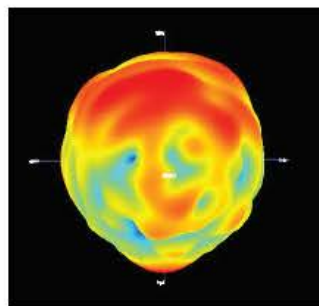
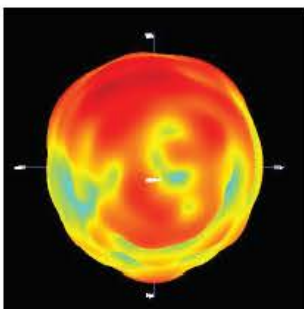
5350MHZ

5850MHZ

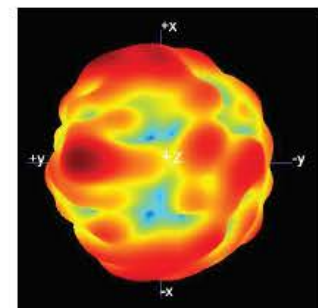
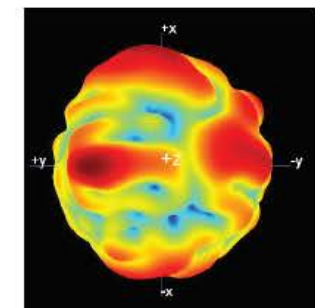
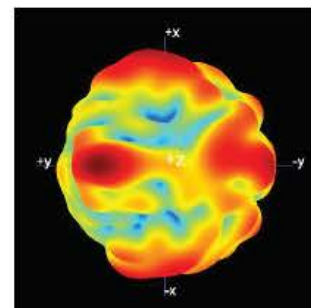
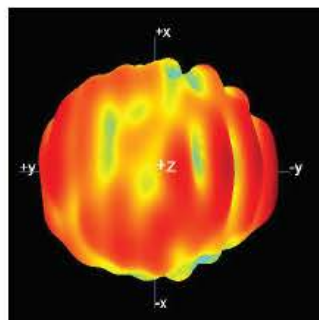
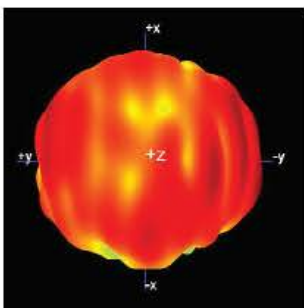
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+Z





Thanks!

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