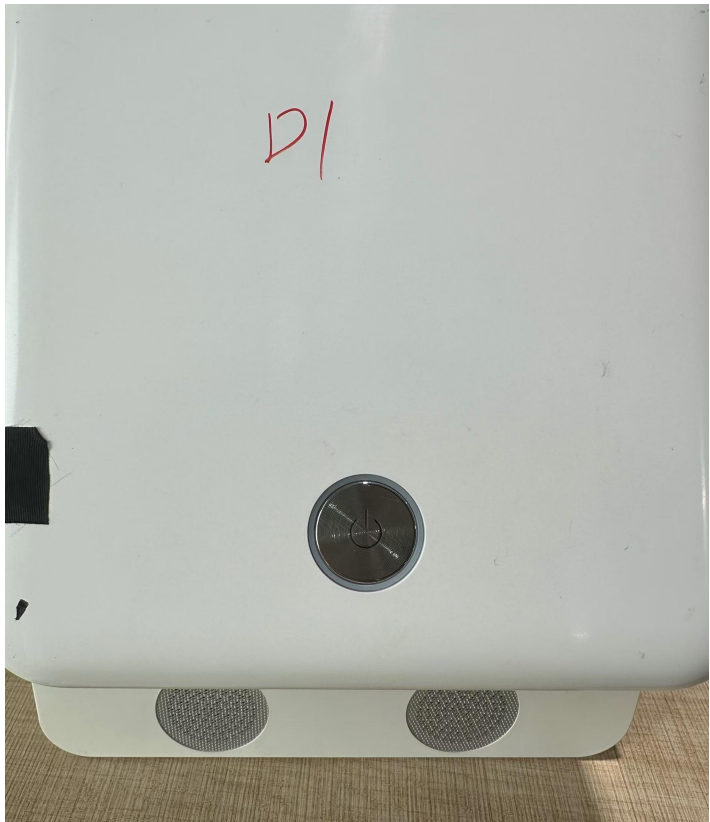
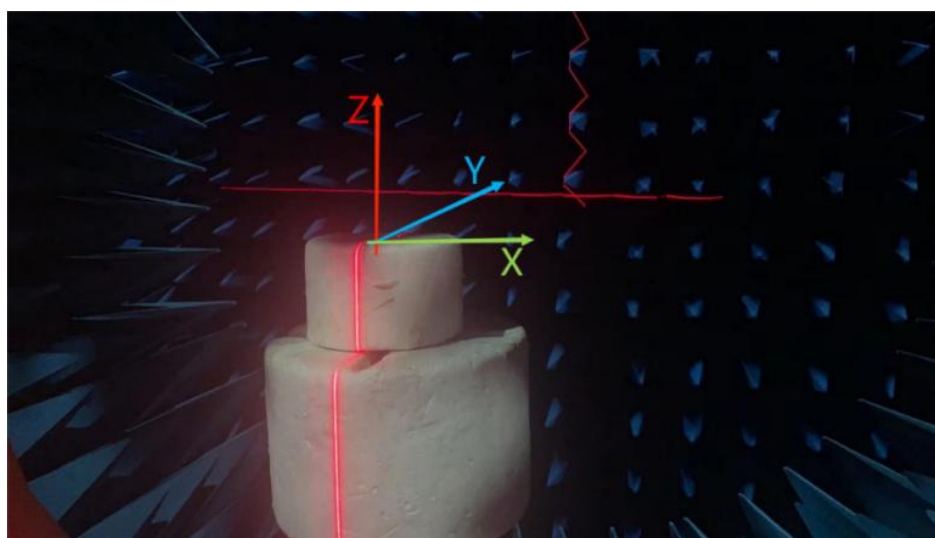
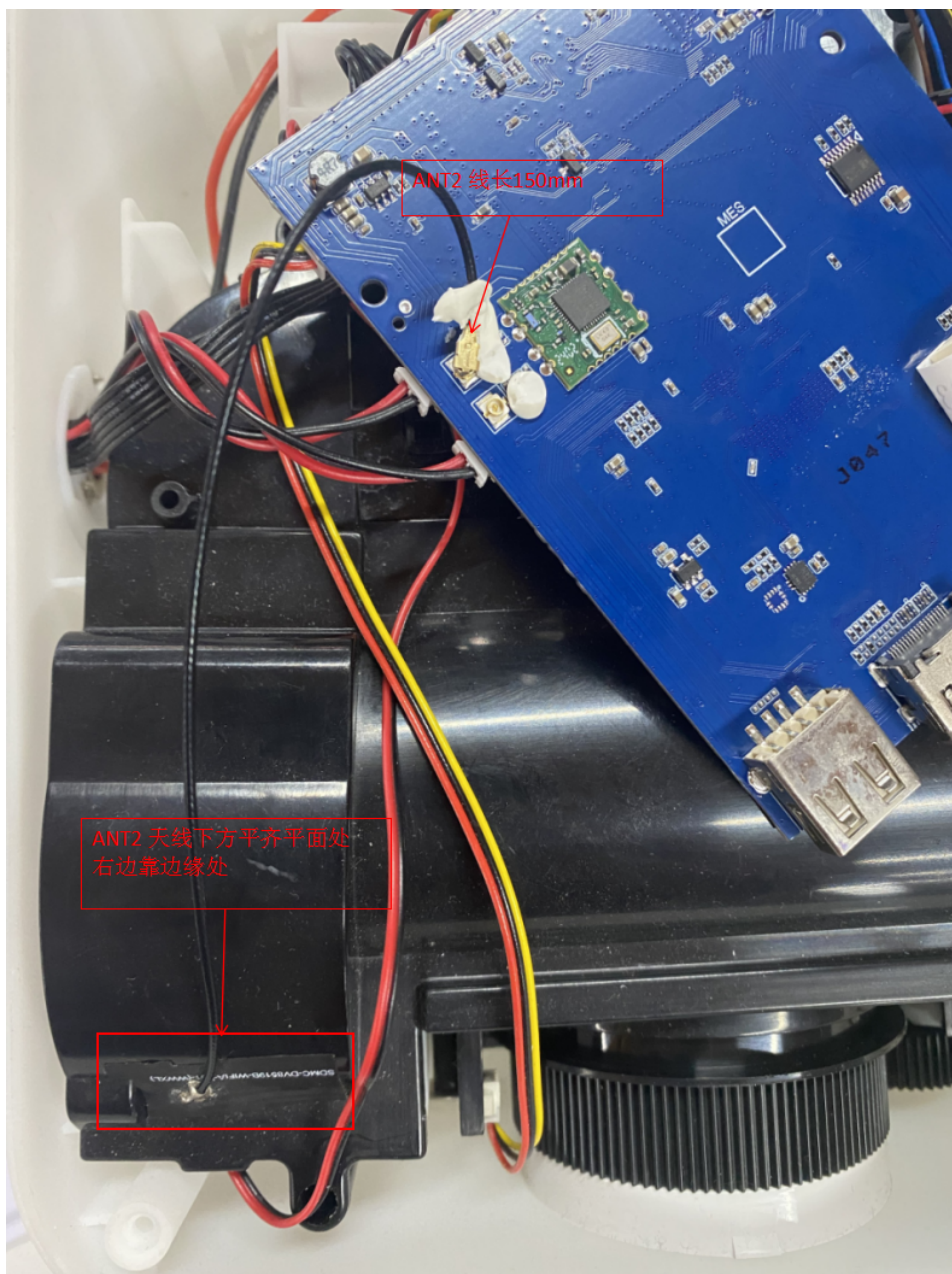


投影仪设备 WIFI 天线调试数据报告

|      |                     |
|------|---------------------|
| 项目名称 | JY9269E-D1          |
| 芯片型号 | Cdtech (B1A1880-11) |
| 天线形式 | FPC                 |
| 报告日期 | 2024/12/4           |

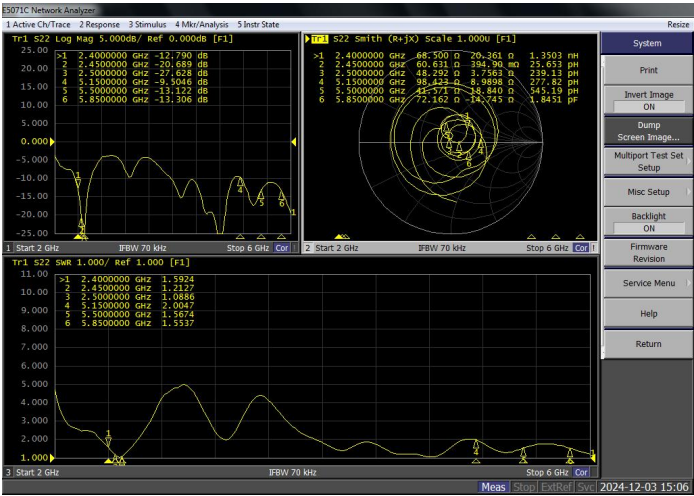
一、天线及测试环境图 Antenna and test environment diagram





二、天线驻波比 Antenna standing wave ratio

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三、无源效率 Passive efficiency

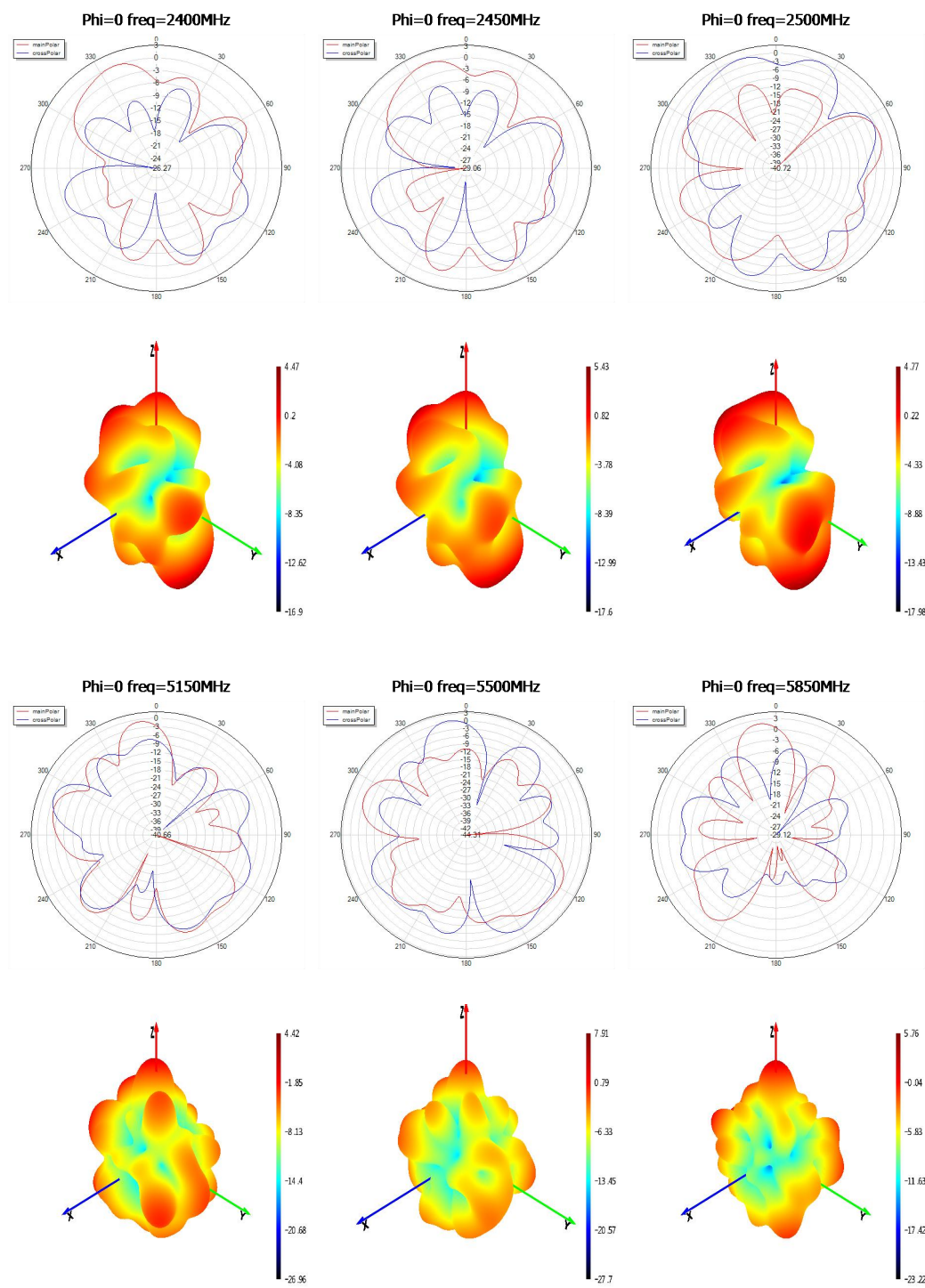
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| Gain&Efficiency&PhaseCenter |                 |                          |                                 |                                  |                      |                     |
|-----------------------------|-----------------|--------------------------|---------------------------------|----------------------------------|----------------------|---------------------|
| 增益、效率和相位中心                  |                 |                          |                                 |                                  |                      |                     |
| Frequency<br>频率(MHz)        | Gain<br>增益(dBi) | MinGain<br>最小增益<br>(dBi) | CO Gain<br>主极化最<br>大增益<br>(dBi) | CP Gain<br>交叉极化<br>最大增益<br>(dBi) | Efficiency<br>效率(dB) | Efficiency<br>效率(%) |
| 2400.00                     | 4.47            | -16.90                   | 3.72                            | 3.21                             | -2.44                | 57.06               |
| 2410.00                     | 4.70            | -16.37                   | 3.88                            | 3.28                             | -2.43                | 57.15               |
| 2420.00                     | 4.90            | -15.90                   | 4.02                            | 3.73                             | -2.12                | 61.32               |
| 2430.00                     | 5.04            | -16.47                   | 4.09                            | 3.42                             | -2.13                | 61.21               |
| 2440.00                     | 5.29            | -16.63                   | 4.32                            | 3.77                             | -2.04                | 62.54               |
| 2450.00                     | 5.43            | -17.60                   | 4.45                            | 4.06                             | -1.70                | 67.54               |
| 2460.00                     | 5.32            | -18.78                   | 4.34                            | 3.77                             | -2.09                | 61.87               |
| 2470.00                     | 5.22            | -19.19                   | 4.28                            | 3.92                             | -1.75                | 66.80               |
| 2480.00                     | 5.45            | -18.30                   | 4.48                            | 4.36                             | -1.54                | 70.20               |
| 2490.00                     | 4.94            | -17.89                   | 4.36                            | 4.00                             | -1.60                | 69.26               |
| 2500.00                     | 4.77            | -17.98                   | 4.10                            | 3.78                             | -1.65                | 68.33               |

| Gain&Efficiency&PhaseCenter |                 |                          |                                 |                                  |                      |                     |
|-----------------------------|-----------------|--------------------------|---------------------------------|----------------------------------|----------------------|---------------------|
| 增益、效率和相位中心                  |                 |                          |                                 |                                  |                      |                     |
| Frequency<br>频率(MHz)        | Gain<br>增益(dBi) | MinGain<br>最小增益<br>(dBi) | CO Gain<br>主极化最<br>大增益<br>(dBi) | CP Gain<br>交叉极化<br>最大增益<br>(dBi) | Efficiency<br>效率(dB) | Efficiency<br>效率(%) |
| 5150.00                     | 4.42            | -26.96                   | 2.40                            | 0.75                             | -3.70                | 42.66               |
| 5200.00                     | 4.74            | -26.20                   | 2.29                            | 1.50                             | -3.90                | 40.78               |
| 5250.00                     | 5.63            | -33.13                   | 2.98                            | 2.70                             | -3.70                | 42.61               |
| 5300.00                     | 5.66            | -33.18                   | 3.44                            | 2.38                             | -4.07                | 39.22               |
| 5350.00                     | 5.60            | -27.41                   | 3.58                            | 1.91                             | -4.31                | 37.08               |
| 5400.00                     | 5.56            | -29.56                   | 3.40                            | 2.27                             | -4.55                | 35.06               |
| 5450.00                     | 6.90            | -29.41                   | 4.64                            | 3.68                             | -3.93                | 40.50               |
| 5500.00                     | 7.91            | -27.70                   | 5.41                            | 4.86                             | -3.67                | 42.95               |
| 5550.00                     | 7.46            | -33.56                   | 4.94                            | 4.33                             | -4.38                | 36.43               |
| 5600.00                     | 7.23            | -28.96                   | 4.75                            | 4.22                             | -4.56                | 35.01               |
| 5650.00                     | 8.43            | -28.24                   | 6.40                            | 5.05                             | -3.46                | 45.04               |
| 5700.00                     | 8.27            | -24.43                   | 6.28                            | 5.04                             | -3.50                | 44.72               |
| 5750.00                     | 7.64            | -30.52                   | 5.95                            | 4.22                             | -3.72                | 42.42               |
| 5800.00                     | 7.24            | -25.14                   | 5.50                            | 4.26                             | -3.79                | 41.81               |
| 5850.00                     | 5.76            | -23.22                   | 4.33                            | 4.32                             | -4.39                | 36.43               |

四、2D3D 方向图 2D3D orientation map

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五、有源数据 Active data

Test mode: 802.11b 11Mbps BW 20M

| Test            | Wifi 2G TRP |       |       |  | Test            | Wifi 2G TIS |        |        |
|-----------------|-------------|-------|-------|--|-----------------|-------------|--------|--------|
| CH              | 1           | 6     | 11    |  | CH              | 1           | 6      | 11     |
| Frequency (MHz) | 2412        | 2437  | 2472  |  | Frequency (MHz) | 2412        | 2437   | 2472   |
| TRP(dBm)        | 15.68       | 17.28 | 17.84 |  | TIS(dBm)        | -81.16      | -84.16 | -84.41 |

Test mode: 802.11a 54Mbps BW 20M

| Test            | Wifi 5G TRP |       |      |  | Test            | Wifi 5G TIS |        |        |
|-----------------|-------------|-------|------|--|-----------------|-------------|--------|--------|
| CH              | 36          | 100   | 161  |  | CH              | 36          | 100    | 161    |
| Frequency (MHz) | 5180        | 5500  | 5825 |  | Frequency (MHz) | 5180        | 5500   | 5825   |
| TRP(dBm)        | 14.21       | 13.78 | 11.4 |  | TIS(dBm)        | -72.88      | -71.78 | -71.16 |

六、吞吐量测试 Throughput testing

| 40M  | 2. 4G-WIFI |       |       |
|------|------------|-------|-------|
| Band | 信道         | TX    | RX    |
| B 模  | 1          | 87. 5 | 87    |
|      | 6          | 81. 4 | 80. 8 |
|      | 11         | 81. 1 | 87. 9 |

| 80M  | 5. 8G-WIFI |        |        |
|------|------------|--------|--------|
| Band | 信道         | TX     | RX     |
| A 模  | 36         | 223. 5 | 221. 6 |
|      | 100        | 227. 9 | 222. 5 |
|      | 161        | 225. 1 | 225. 7 |

| Band      | angle | 信道    |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|
|           |       | 1     |       | 6     |       | 11    |       |
|           |       | TX    | RX    | TX    | RX    | TX    | RX    |
| 2. 4G/B 模 | 0     | 83. 5 | 82. 9 | 76. 4 | 75. 7 | 81. 9 | 83. 8 |
|           | 30    | 91. 7 | 91. 1 | 85. 4 | 84. 7 | 83. 1 | 92. 0 |
|           | 60    | 90. 9 | 90. 3 | 79. 5 | 78. 8 | 80. 1 | 91. 2 |
|           | 90    | 85. 0 | 84. 4 | 81. 2 | 80. 5 | 79. 1 | 85. 3 |
|           | 120   | 90. 1 | 89. 5 | 79. 3 | 78. 6 | 80. 9 | 90. 4 |
|           | 150   | 88. 5 | 87. 9 | 86. 3 | 85. 6 | 82. 8 | 88. 8 |
|           | 180   | 83. 6 | 83. 0 | 82. 3 | 81. 6 | 80. 2 | 83. 9 |

| Band     | angle | 信道    |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|-------|-------|
|          |       | 36    |       | 100   |       | 161   |       |
|          |       | TX    | RX    | TX    | RX    | TX    | RX    |
| 5.8G/A 模 | 0     | 225.4 | 221.8 | 229.8 | 221.2 | 227.0 | 224.3 |
|          | 30    | 220.9 | 222.8 | 227.4 | 221.9 | 224.6 | 225.0 |
|          | 60    | 225.2 | 223.1 | 229.5 | 221.8 | 226.7 | 224.9 |
|          | 90    | 225.0 | 214.2 | 227.3 | 223.5 | 224.5 | 226.6 |
|          | 120   | 225.4 | 223.4 | 228.5 | 221.8 | 225.7 | 224.9 |
|          | 150   | 223.1 | 223.3 | 227.4 | 224.4 | 224.6 | 227.5 |
|          | 180   | 220.1 | 223.6 | 225.7 | 223.5 | 222.9 | 226.6 |

深圳市万物相连通讯有限公司  
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