

# 天线测试报告

Customer: Shenzhen sangge'er Polytron Technologies Inc

Project Name: SH-1-12

Antenna Manufacturer: Sunnyway Technology(CHINA)

Address: The 6th floor, Building 5, Nantaiyun Innovation Valley Center, Guangming District, Shenzhen City

报告版本: 2025.09.11 A2

研 发: 杨宇航

## Equipment List



The industry's top 64 sensors OTA chamber

Frequency range: 400MHz-11GHz

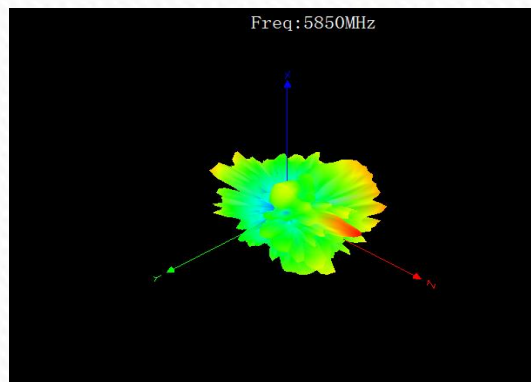
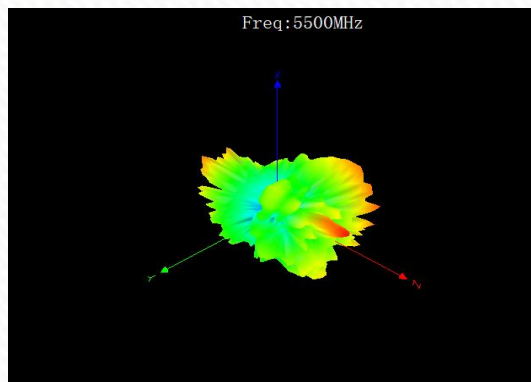
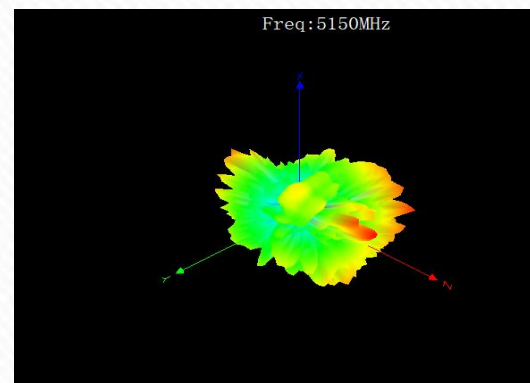
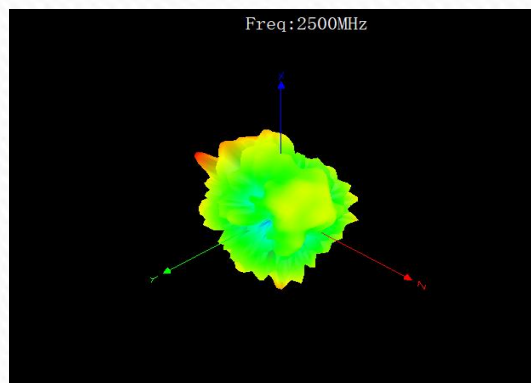
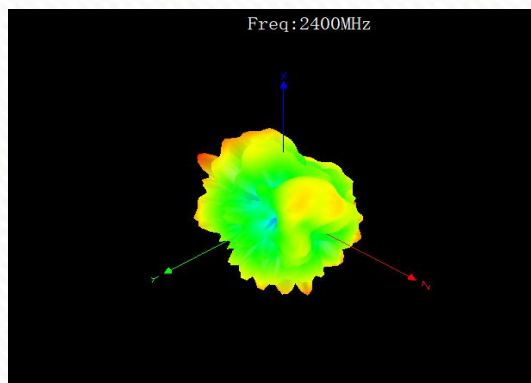
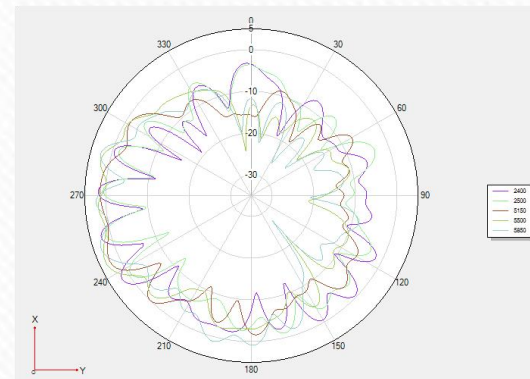
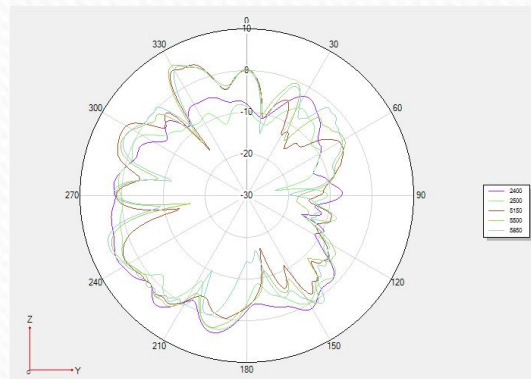
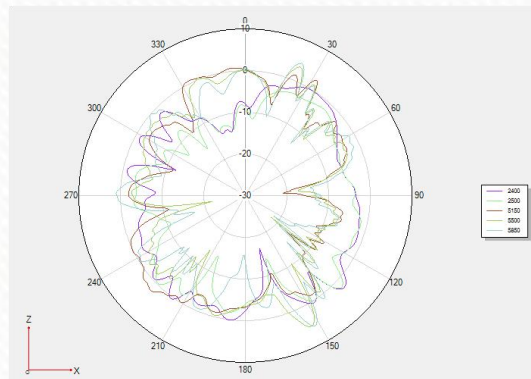
Device Limitation: 2M

Load-bearing limitation:100KG

| Equipments Items                           | Total Quantity | Quantity for Shanghai R&D | Quantity for Shenzhen R&D | Quantity for ChongQing R&D |
|--------------------------------------------|----------------|---------------------------|---------------------------|----------------------------|
| OTA chamber                                | 10             | 4                         | 5                         | 1                          |
| 5G Tester ( SP9500-CTS)                    | 3              | 1                         | 1                         | 1                          |
| R&S Tester ( high configuration CMW500)    | 6              | 3                         | 2                         | 1                          |
| Japan Anritsu Tester ( Dual Channel 8820)  | 4              | 2                         | 2                         | --                         |
| NB-IoT Tester (SP8315)                     | 3              | 1                         | 1                         | 1                          |
| Agilent Tester ( 8960)                     | 9              | 4                         | 4                         | --                         |
| Agilent Network Analyzer ( E5062A)         | 7              | 3                         | 3                         | 1                          |
| Agilent Network Analyzer ( E5071C 8.5GHZ ) | 11             | 5                         | 5                         | 1                          |
| Agilent Network Analyzer ( E5071B 8.5GHZ ) | 7              | 3                         | 3                         | 1                          |
| R & S Network Analyzer ( ZND)              | 9              | 4                         | 4                         | 1                          |
| R & S Network Analyzer ( ZVB)              | 3              | 1                         | 1                         | 1                          |
| OTA head hand / ear hand / arm hand        | 5              | 2                         | 2                         | 1                          |
| GPS/WIFI active test equipment             | 5              | 2                         | 2                         | 1                          |



| Frequency/Mhz | Efficiency / dB | Efficiency / % | MaxGain/dBi | Frequency/Mhz | Efficiency / dB | Efficiency / % | MaxGain/dBi |
|---------------|-----------------|----------------|-------------|---------------|-----------------|----------------|-------------|
| 2400          | -2.67           | 54.08          | 1.65        | 5150          | -3.68           | 42.88          | 1.11        |
| 2410          | -2.72           | 53.46          | 1.33        | 5200          | -3.29           | 46.91          | 1.63        |
| 2420          | -2.91           | 51.17          | 1.19        | 5250          | -3.39           | 45.84          | 1.28        |
| 2430          | -2.93           | 50.93          | 1.49        | 5300          | -3.6            | 43.68          | 1.22        |
| 2440          | -2.96           | 50.58          | 0.98        | 5350          | -3.56           | 44.08          | 1.37        |
| 2450          | -3.13           | 48.64          | 1.21        | 5400          | -3.36           | 46.16          | 1.51        |
| 2460          | -3.26           | 47.21          | 1.55        | 5450          | -3.4            | 45.74          | 1.43        |
| 2470          | -3.24           | 47.42          | 1.39        | 5500          | -3.68           | 42.88          | 1.14        |
| 2480          | -3.36           | 46.13          | 1.39        | 5550          | -3.58           | 43.88          | 1.24        |
| 2490          | -3.28           | 46.99          | 1.86        | 5600          | -3.24           | 47.45          | 1.75        |
| 2500          | -3.22           | 47.64          | 1.8         | 5650          | -3.46           | 45.11          | 1.64        |
|               |                 |                |             | 5700          | -3.8            | 41.71          | 1.05        |
|               |                 |                |             | 5750          | -3.51           | 44.6           | 1.41        |
|               |                 |                |             | 5800          | -3.55           | 44.18          | 1.38        |
|               |                 |                |             | 5850          | -3.74           | 42.29          | 1..16       |



亮屏

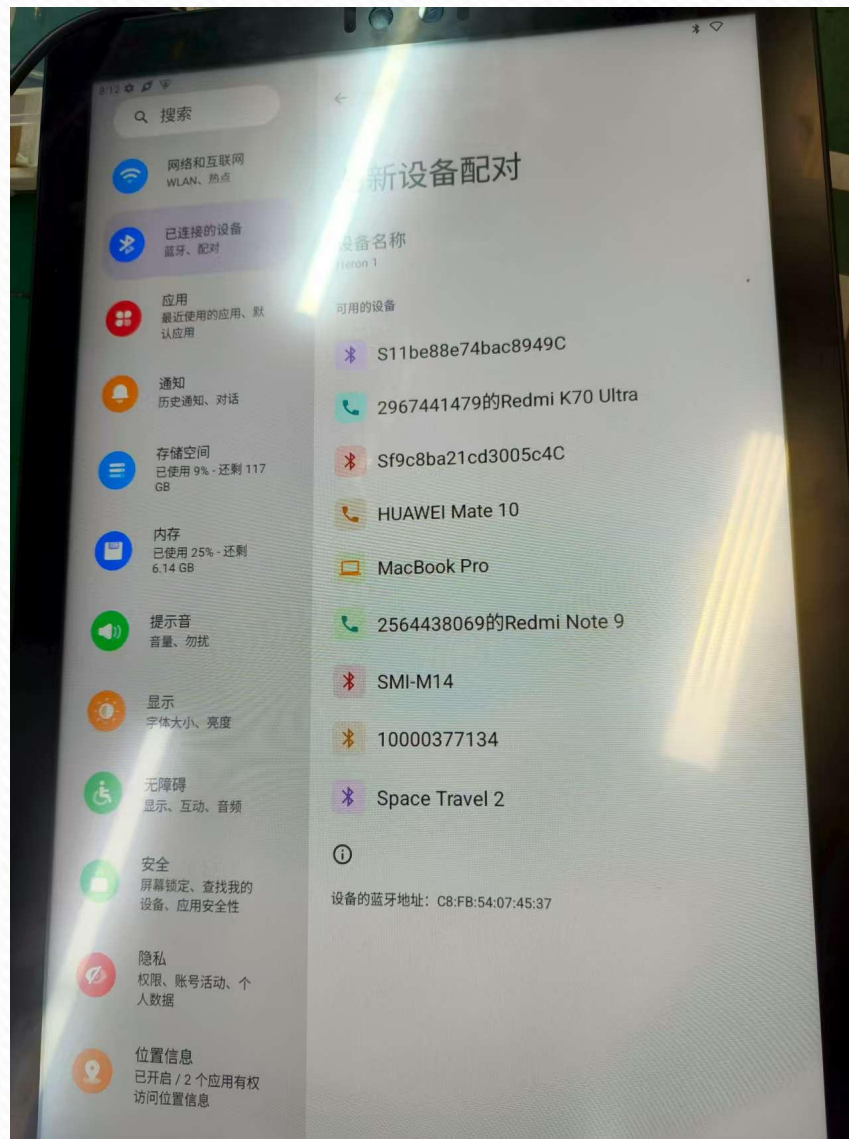
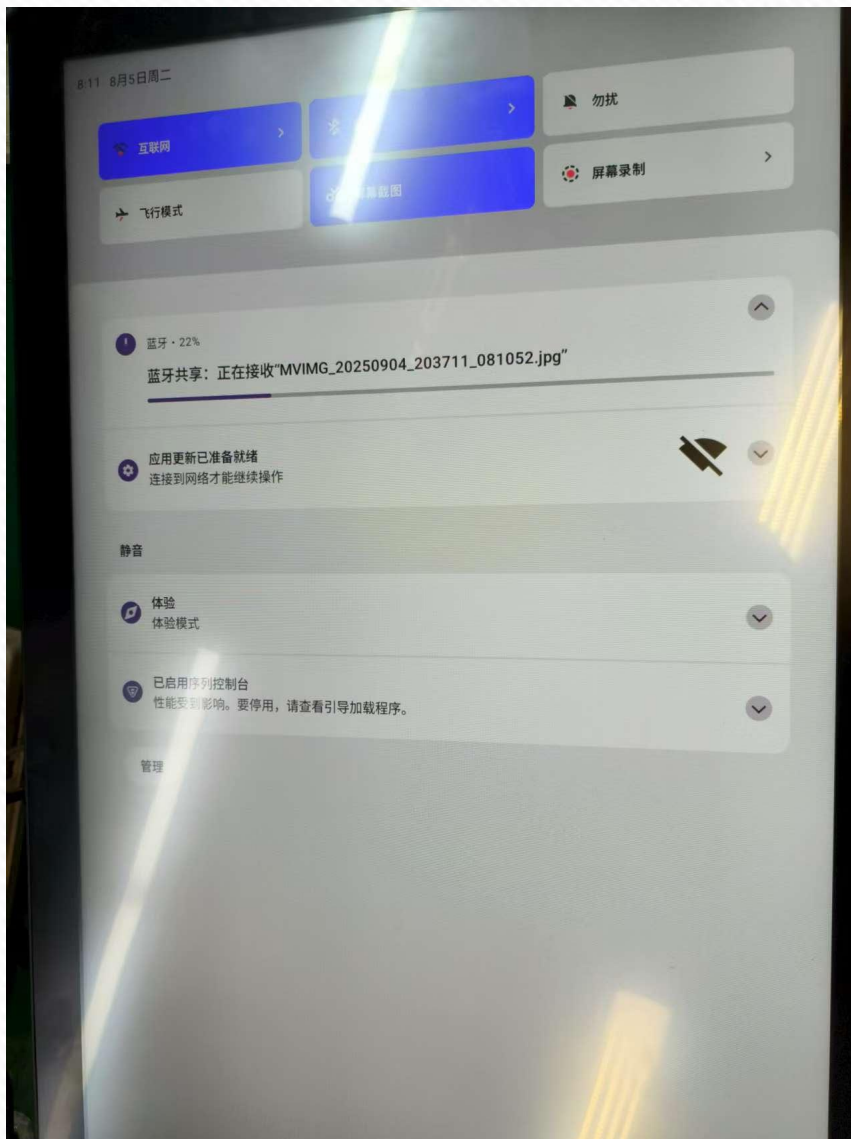
| Band   | Channel | TRP   | TIS    |
|--------|---------|-------|--------|
| wifi_B | 1       | 14.98 |        |
|        | 6       | 14.81 |        |
|        | 11      | 14.84 | -84.94 |
| wifi_G | 1       | 15.05 |        |
|        | 6       | 15.57 |        |
|        | 11      | 14.92 | -72.36 |
| wifi_N | 1       | 12.36 |        |
|        | 6       | 12.27 |        |
|        | 11      | 11.92 | -67.77 |
| wifi_A | 36      | 12.74 |        |
|        | 149     | 11.98 |        |
|        | 165     | 12.03 | -73.65 |

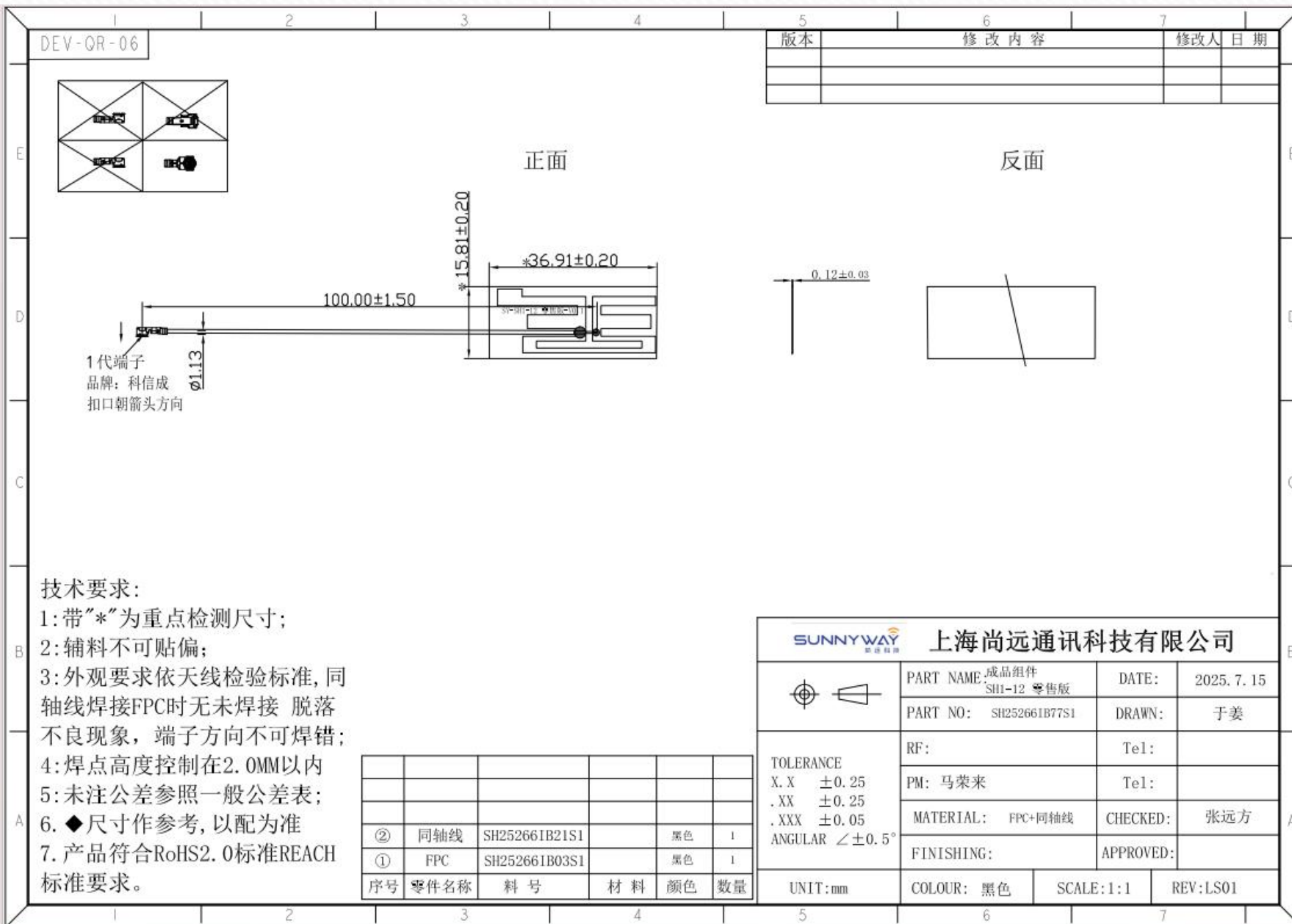
灭屏

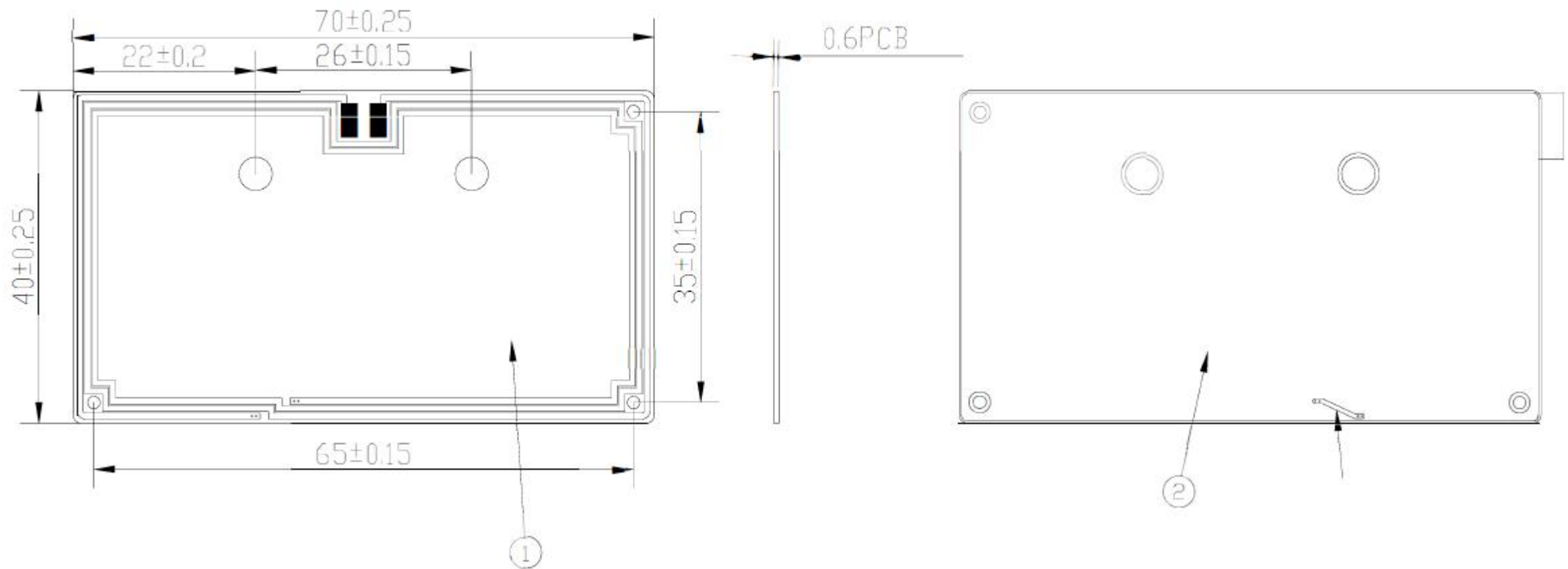
| Band   | Channel | TRP   | TIS    |
|--------|---------|-------|--------|
| wifi_B | 1       | 15.55 |        |
|        | 6       | 15.52 |        |
|        | 11      | 15.43 | -87.78 |
| wifi_G | 1       | 15.67 |        |
|        | 6       | 16.18 |        |
|        | 11      | 15.52 | -75.37 |
| wifi_N | 1       | 12.93 |        |
|        | 6       | 12.82 |        |
|        | 11      | 12.5  | -70.84 |
| wifi_A | 36      | 13.11 |        |
|        | 149     | 12.51 |        |
|        | 165     | 12.21 | -73.84 |

开摄像头

| Band   | Channel | TRP   | TIS    |
|--------|---------|-------|--------|
| wifi_B | 1       | 15.56 |        |
|        | 6       | 15.46 |        |
|        | 11      | 15.46 | -86.59 |
| wifi_G | 1       | 15.69 |        |
|        | 6       | 16.18 |        |
|        | 11      | 15.55 | -74.12 |
| wifi_N | 1       | 12.99 |        |
|        | 6       | 12.88 |        |
|        | 11      | 12.54 | -68.32 |
| wifi_A | 36      | 13.03 |        |
|        | 149     | 12.67 |        |
|        | 165     | 12.34 | -73.92 |







# Thank You

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