



# 样品规格书

## Antenna Part Specification

|                             |                       |
|-----------------------------|-----------------------|
| 客户名称:<br>Customer name:     | 禾苗<br>Sprocomm        |
| 项目名称:<br>Project name:      | E6546N                |
| 天线类型:<br>Material category: | FPC 天线<br>FPC antenna |
| 版本:<br>Version:             | V1.0                  |
| 日期:<br>Date:                | 2023.02.23            |



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变更记录栏  
Change record

| 编制/变更日期<br>Compile / change date | 变更理由<br>Reason for change | 变更内容<br>Changed content | 版本<br>Version |
|----------------------------------|---------------------------|-------------------------|---------------|
|                                  |                           |                         |               |
|                                  |                           |                         |               |
|                                  |                           |                         |               |



一：无源测试报告

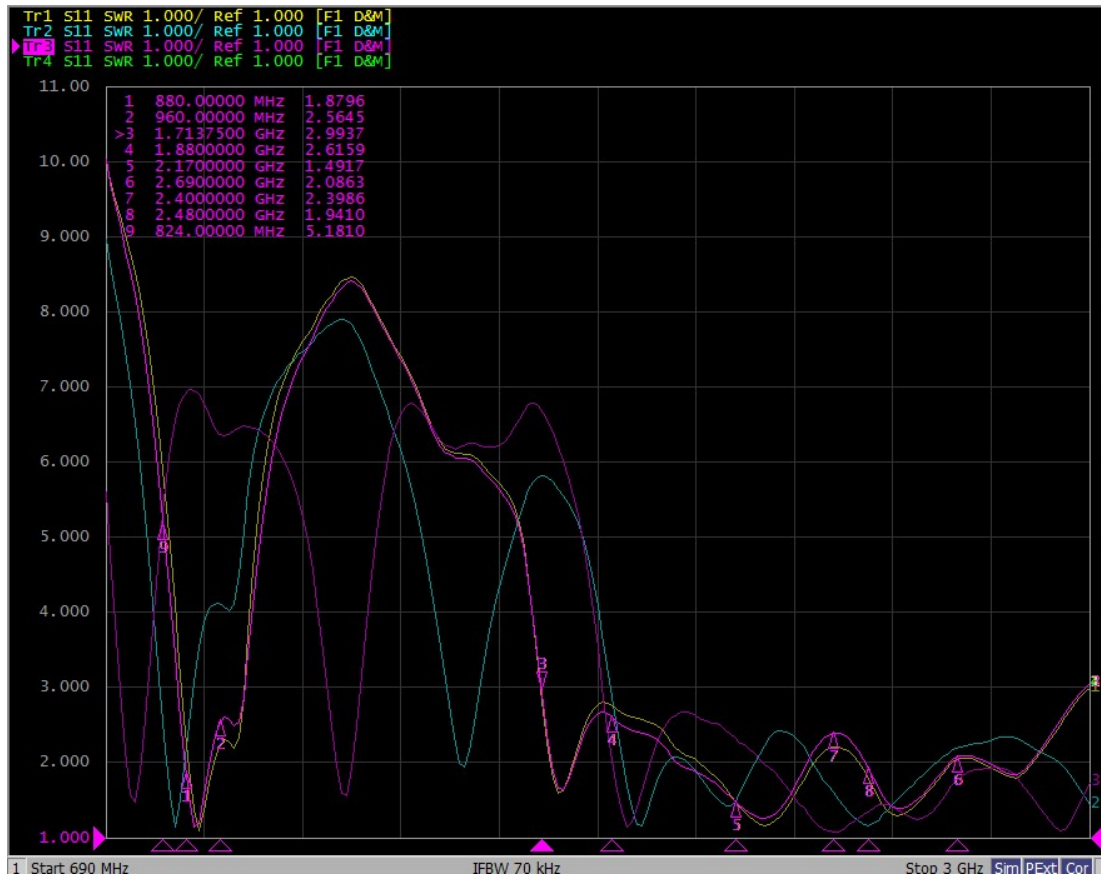
I: The report of passive data



Angilent E5071C

主天线 S 参数 (FS)

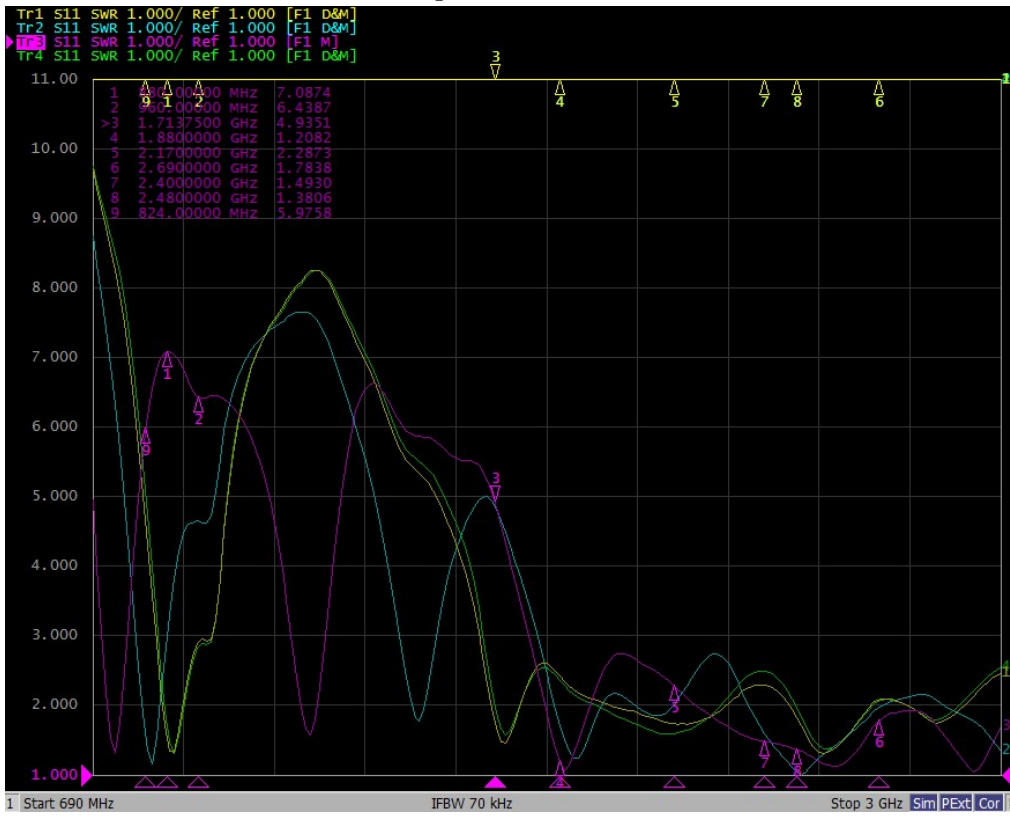
Main antenna VSWR(S11) parameter (FS)





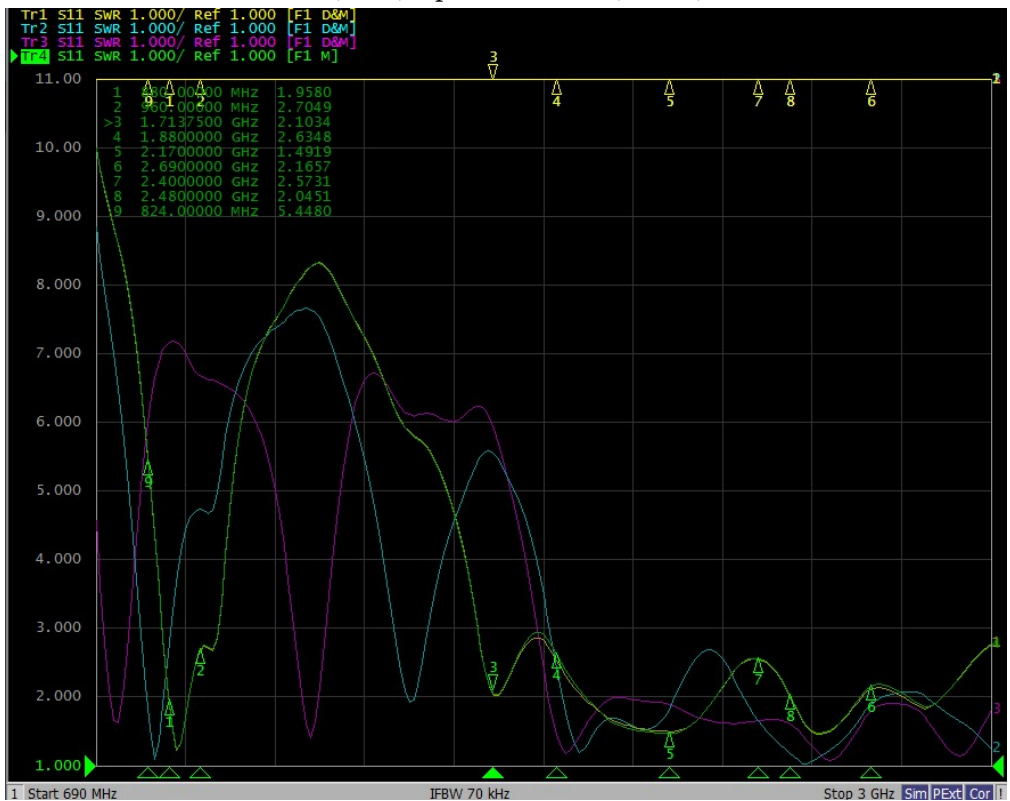
主天线 S 参数 (BHHL)

Main antenna VSWR(S11) parameter (BHHL)



主天线 S 参数 (BHHR)

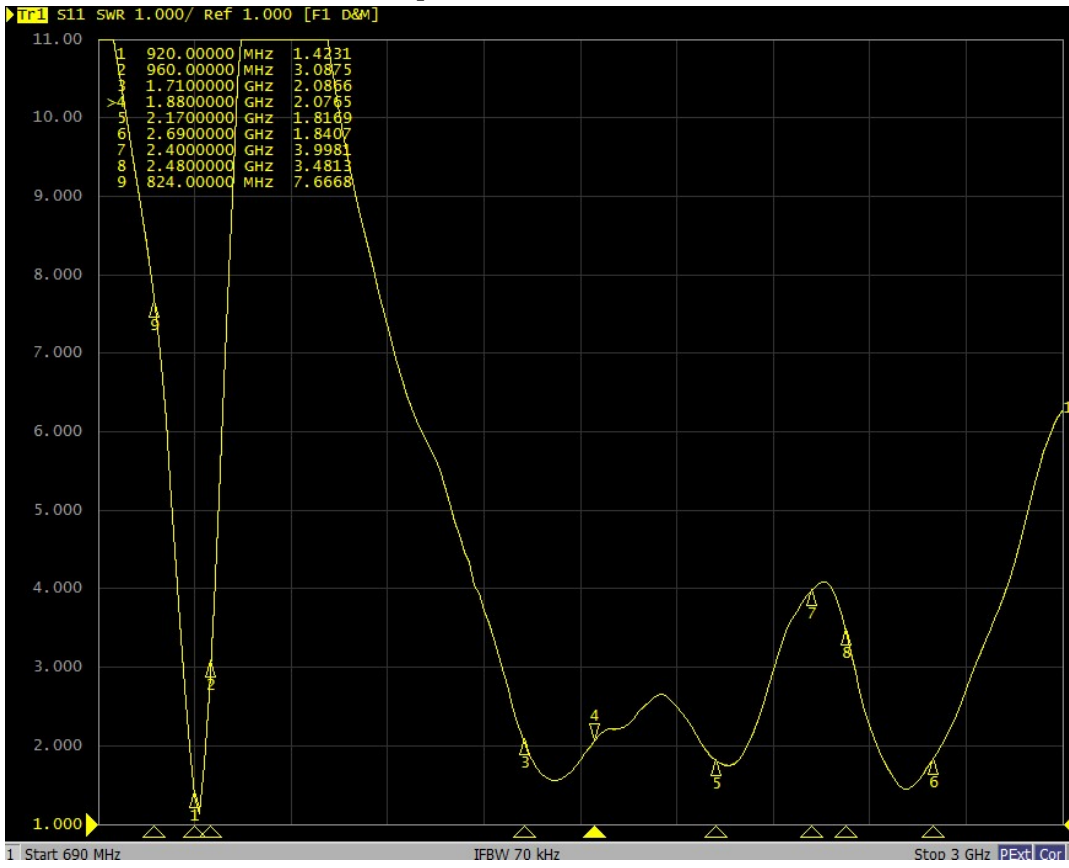
Main antenna VSWR(S11) parameter (BHHR)





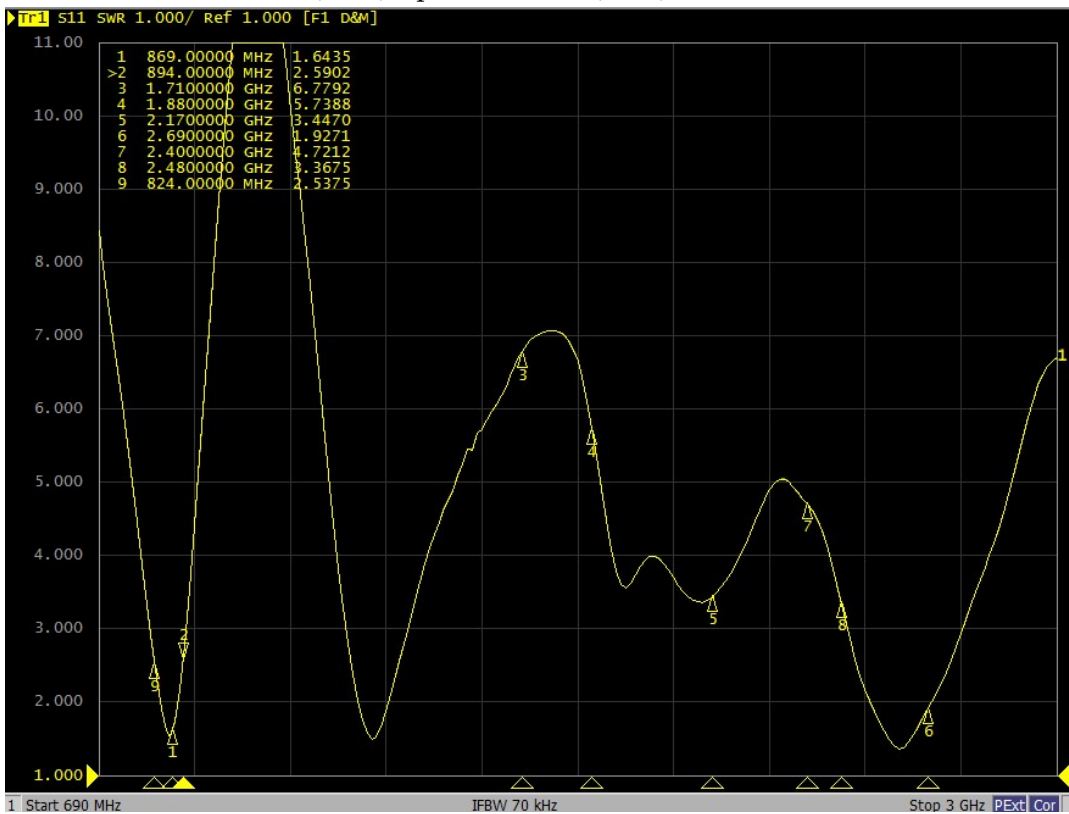
分集天线 S 参数 (RF1)

DIV antenna VSWR(S11) parameter (RF1)



分集天线 S 参数 (RF2)

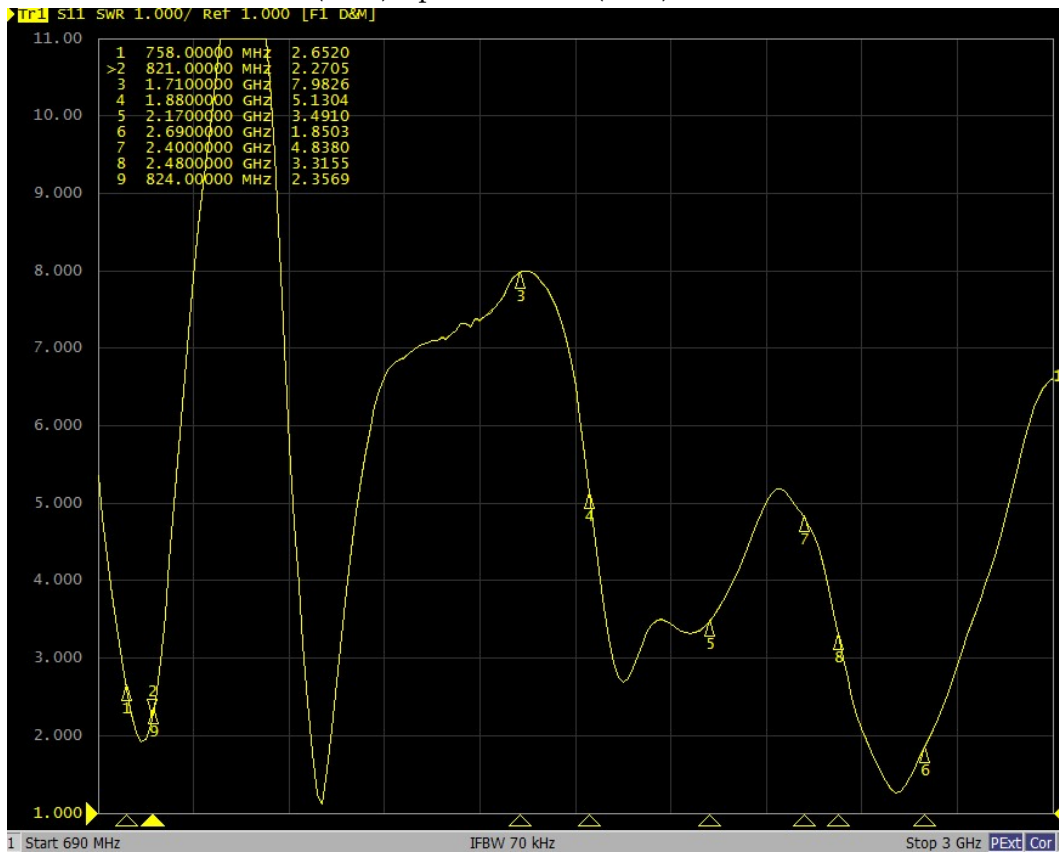
DIV antenna VSWR(S11) parameter (RF2)





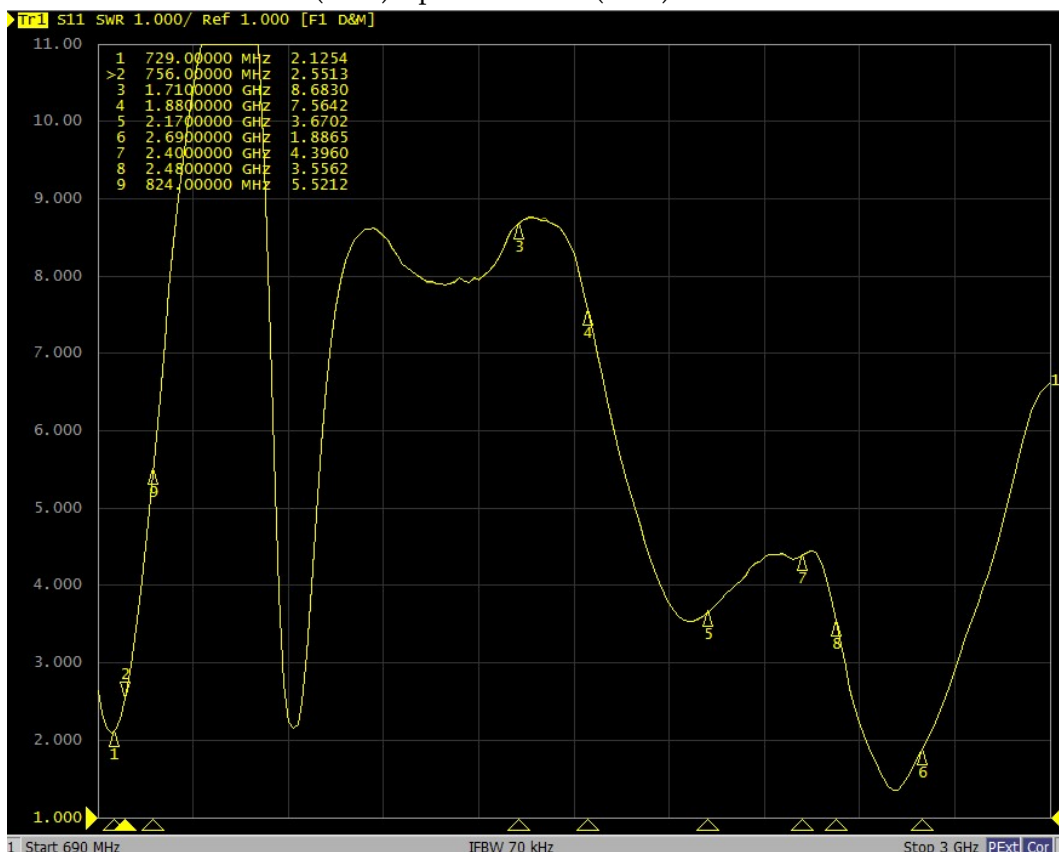
分集天线 S 参数 (RF3)

DIV antenna VSWR(S11) parameter (RF3)



分集天线 S 参数 (RF4)

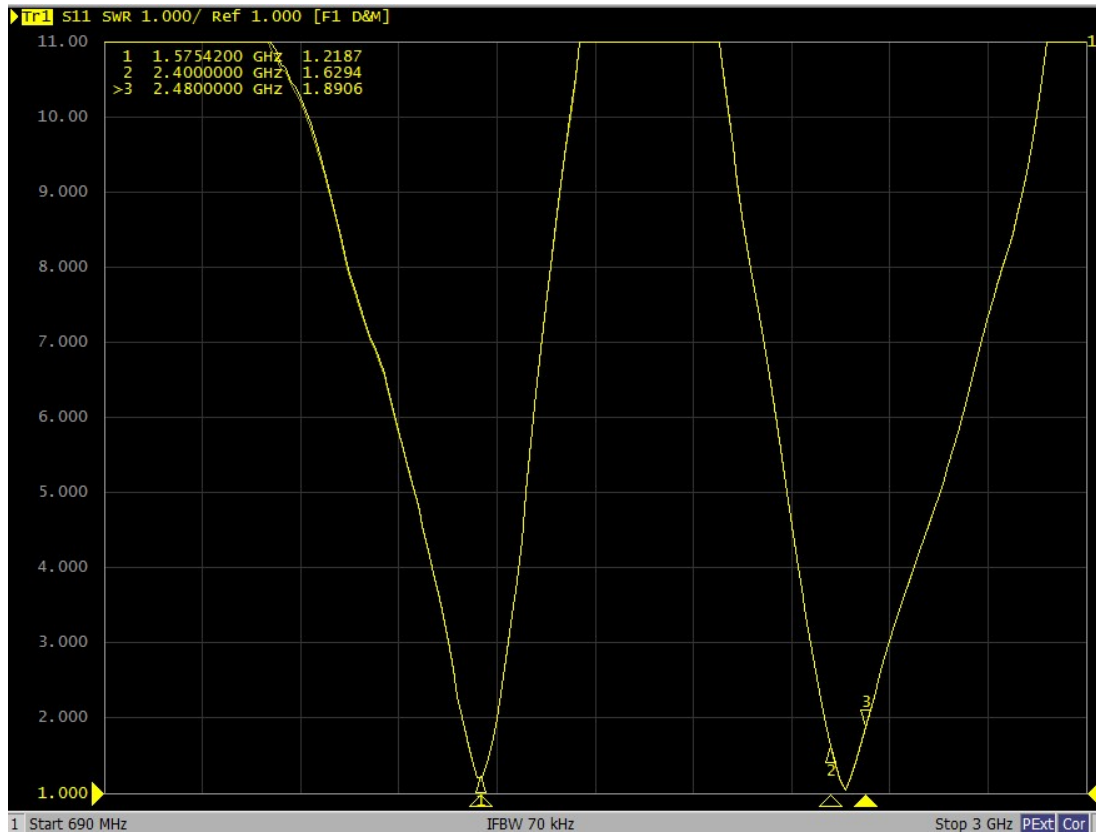
DIV antenna VSWR(S11) parameter (RF4)





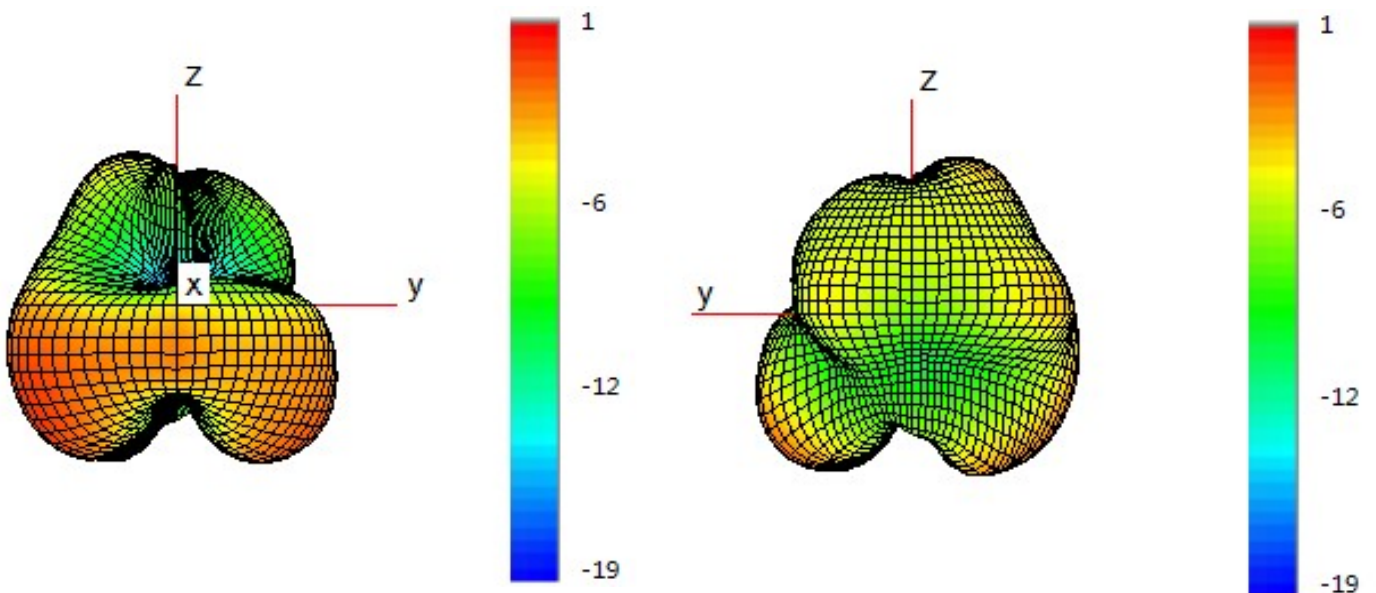
GPS+WIFI 天线 S 参数

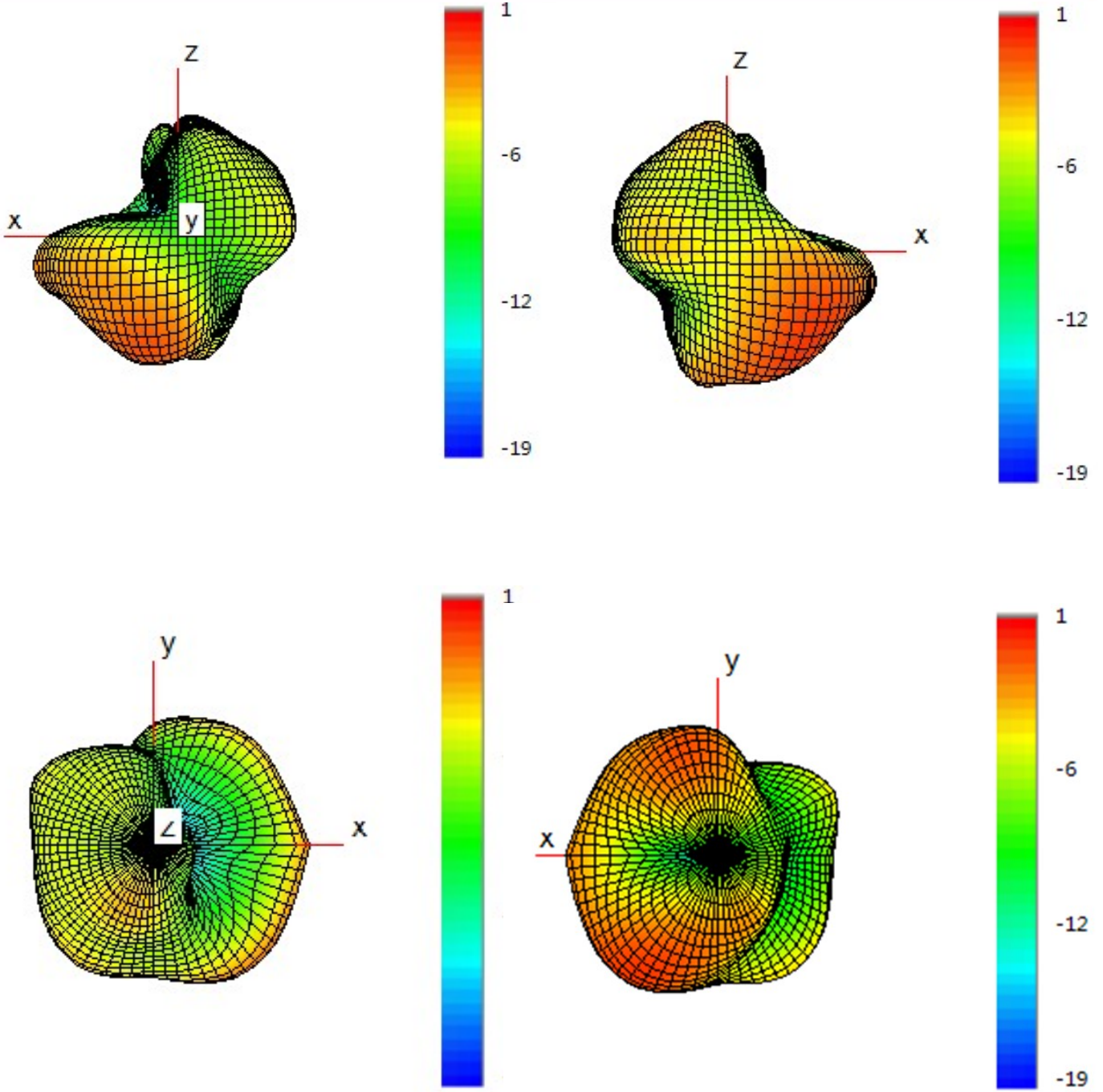
GPS+WIFI antenna VSWR(S11) parameter



3D 方向图(2.4G)

3D direction map(2.4G)



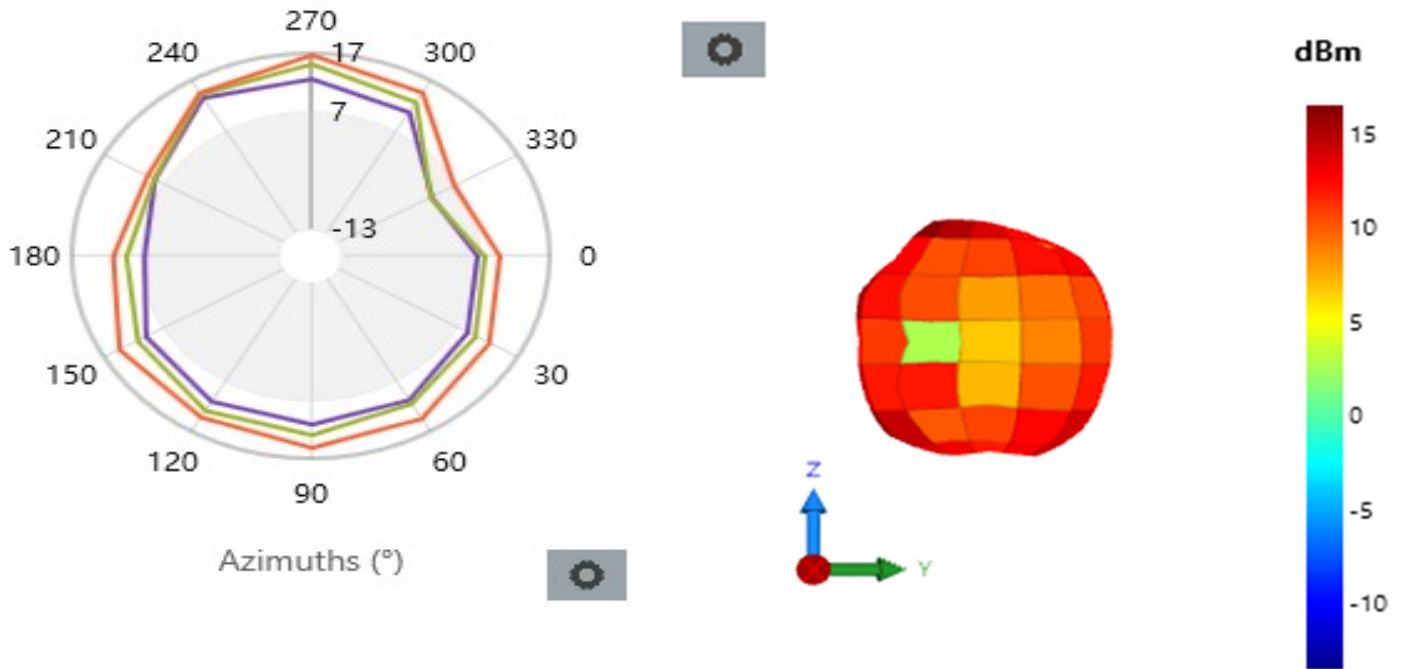






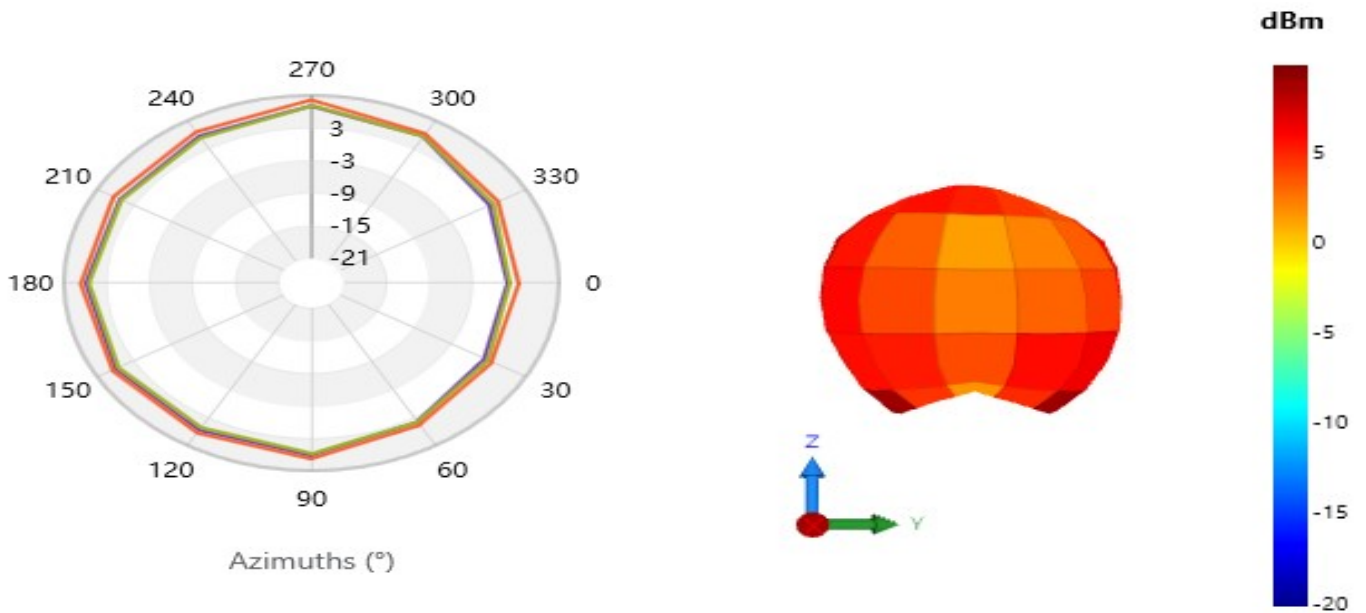
3D 方向图(WIFI 2.4G)

3D direction map(WIFI 2.4G)



3D 方向图(BT)

3D direction map(BT)





## 主天线无源效率:

### Passive efficiency of MAIN antenna

| RF1/Fre | 效率/dB | 效率/%  | 增益/dBi | RF2/Fre | 效率/dB | 效率/%  | 增益/dBi | RF2/Fre | 效率/dB | 效率/%  | 增益/dBi | RF2/Fre | 效率/dB | 效率/%  | 增益/dBi |
|---------|-------|-------|--------|---------|-------|-------|--------|---------|-------|-------|--------|---------|-------|-------|--------|
| 880     | -5.48 | 28.34 | 0.09   | 790     | -5.98 | 25.23 | -1.72  | 1850    | -5.19 | 30.25 | 2.20   | 2490    | -5.47 | 28.36 | 1.88   |
| 890     | -5.25 | 29.88 | 0.12   | 800     | -5.87 | 25.90 | -1.45  | 1860    | -5.25 | 29.85 | 2.08   | 2510    | -5.55 | 27.89 | 1.85   |
| 900     | -5.48 | 28.31 | 0.10   | 810     | -5.74 | 26.64 | -1.40  | 1870    | -5.41 | 28.76 | 1.90   | 2530    | -5.61 | 27.49 | 2.60   |
| 910     | -5.77 | 26.50 | 0.08   | 820     | -5.60 | 27.56 | -1.30  | 1880    | -5.48 | 28.28 | 1.95   | 2550    | -5.66 | 27.17 | 2.12   |
| 920     | -5.73 | 26.70 | 0.09   | 830     | -5.32 | 29.41 | -1.63  | 1890    | -5.48 | 28.28 | 2.02   | 2570    | -5.57 | 27.76 | 2.06   |
| 930     | -6.29 | 23.48 | 0.10   | 840     | -5.09 | 31.00 | -1.72  | 1910    | -5.40 | 28.85 | 1.89   | 2590    | -5.25 | 29.83 | 2.50   |
| 940     | -6.47 | 22.54 | 0.04   | 850     | -4.73 | 33.66 | -1.68  | 1930    | -5.15 | 30.57 | 2.27   | 2610    | -5.85 | 26.03 | 2.13   |
| 950     | -6.97 | 20.09 | 0.05   | 860     | -4.65 | 34.26 | -1.60  | 1950    | -5.00 | 31.61 | 2.38   | 2630    | -5.69 | 26.95 | 1.93   |
| 960     | -7.05 | 19.72 | 0.02   | 870     | -5.01 | 31.54 | -1.64  | 1970    | -4.90 | 32.39 | 2.54   | 2650    | -5.28 | 29.64 | 1.95   |
| 1710    | -6.05 | 24.84 | 1.25   | 880     | -5.00 | 31.60 | -1.63  | 1990    | -4.88 | 32.48 | 2.92   | 2670    | -4.87 | 32.56 | 1.89   |
| 1730    | -5.93 | 25.51 | 1.18   |         |       |       |        | 2010    | -4.80 | 33.13 | 3.11   | 2690    | -4.71 | 33.79 | 1.97   |
| 1750    | -5.87 | 25.89 | 1.38   |         |       |       |        | 2030    | -4.92 | 32.22 | 2.98   | 2700    | -4.59 | 34.74 | 1.86   |
| 1770    | -5.83 | 26.14 | 1.46   |         |       |       |        | 2050    | -5.28 | 29.61 | 2.87   |         |       |       |        |
| 1790    | -5.78 | 26.40 | 1.34   |         |       |       |        | 2070    | -5.04 | 31.32 | 2.99   |         |       |       |        |
| 1810    | -5.52 | 28.07 | 1.86   |         |       |       |        | 2090    | -5.36 | 29.13 | 2.63   |         |       |       |        |
| 1830    | -5.33 | 29.33 | 2.15   |         |       |       |        | 2110    | -5.16 | 30.49 | 2.39   |         |       |       |        |
| 1850    | -5.99 | 25.18 | 2.12   |         |       |       |        | 2130    | -4.98 | 31.77 | 3.11   |         |       |       |        |
| 1870    | -5.63 | 27.33 | 2.22   |         |       |       |        | 2150    | -4.86 | 32.68 | 2.98   |         |       |       |        |
| 1880    | -5.61 | 27.46 | 2.20   |         |       |       |        | 2170    | -4.66 | 34.17 | 2.87   |         |       |       |        |
|         |       |       |        |         |       |       |        | 2190    | -4.60 | 34.70 | 2.99   |         |       |       |        |
|         |       |       |        |         |       |       |        | 2210    | -4.50 | 35.49 | 2.38   |         |       |       |        |
| RF3/Fre | 效率/dB | 效率/%  | 增益/dBi | RF3/Fre | 效率/dB | 效率/%  | 增益/dBi | RF4/Fre | 效率/dB | 效率/%  | 增益/dBi |         |       |       |        |
| 699     | -6.81 | 20.83 | -0.86  | 2300    | -4.46 | 35.80 | 1.41   | 880     | -5.57 | 27.75 | 0.08   |         |       |       |        |
| 710     | -6.47 | 22.55 | -0.82  | 2330    | -4.73 | 33.66 | 1.31   | 890     | -5.44 | 28.58 | 0.07   |         |       |       |        |
| 720     | -6.33 | 23.26 | -0.72  | 2350    | -4.92 | 32.22 | 1.25   | 900     | -5.60 | 27.51 | 0.09   |         |       |       |        |
| 730     | -6.10 | 24.54 | -0.73  | 2370    | -4.91 | 32.31 | 1.32   | 910     | -5.83 | 26.10 | 0.12   |         |       |       |        |
| 740     | -5.43 | 28.64 | -0.60  | 2390    | -4.60 | 34.71 | 1.37   | 920     | -5.88 | 25.80 | 0.07   |         |       |       |        |
| 750     | -5.85 | 26.00 | -0.65  |         |       |       |        | 930     | -6.34 | 23.23 | 0.10   |         |       |       |        |
| 760     | -5.88 | 25.83 | -0.53  |         |       |       |        | 940     | -6.51 | 22.34 | 0.05   |         |       |       |        |
| 770     | -5.55 | 27.86 | -0.42  |         |       |       |        | 950     | -6.97 | 20.09 | 0.03   |         |       |       |        |
| 780     | -5.81 | 26.26 | -0.36  |         |       |       |        | 960     | -7.07 | 19.63 | 0.00   |         |       |       |        |
| 790     | -5.60 | 27.54 | -0.37  |         |       |       |        |         |       |       |        |         |       |       |        |
| 800     | -5.60 | 27.54 | -0.33  |         |       |       |        |         |       |       |        |         |       |       |        |

## 分集天线无源效率:

### Passive efficiency of DIV antenna

| RF1/Fre | 效率/dB | 效率/%  | 增益/dBi | RF1/Fre | 效率/dB | 效率/%  | 增益/dBi | RF2/Fre | 效率/dB | 效率/%  | 增益/dBi |  |  |  |  |
|---------|-------|-------|--------|---------|-------|-------|--------|---------|-------|-------|--------|--|--|--|--|
| 923     | -6.95 | 20.20 | -2.78  | 2300    | -7.00 | 19.94 | -2.07  | 869     | -7.21 | 19.03 | -3.27  |  |  |  |  |
| 933     | -6.07 | 24.72 | -2.10  | 2310    | -6.87 | 20.57 | -1.92  | 879     | -6.62 | 21.79 | -2.85  |  |  |  |  |
| 943     | -6.53 | 22.25 | -2.49  | 2320    | -6.52 | 22.29 | -1.72  | 889     | -7.93 | 16.09 | -3.75  |  |  |  |  |
| 953     | -6.74 | 21.21 | -2.37  | 2330    | -7.25 | 18.83 | -2.10  | 899     | -8.53 | 14.02 | -4.18  |  |  |  |  |
| 963     | -6.93 | 20.26 | -2.69  | 2340    | -7.77 | 16.73 | -2.45  | RF3/Fre | 效率/dB | 效率/%  | 增益/dBi |  |  |  |  |
| 1810    | -8.61 | 13.79 | -5.43  | 2350    | -7.73 | 16.87 | -2.47  | 759     | -8.83 | 13.11 | -5.35  |  |  |  |  |
| 1830    | -8.02 | 15.78 | -4.92  | 2360    | -8.02 | 15.79 | -3.42  | 769     | -8.50 | 14.12 | -4.88  |  |  |  |  |
| 1850    | -7.52 | 17.70 | -4.59  | 2370    | -8.24 | 14.99 | -4.03  | 779     | -8.23 | 15.02 | -4.63  |  |  |  |  |
| 1870    | -6.84 | 20.69 | -3.91  | 2380    | -7.31 | 18.57 | -4.56  | 789     | -7.83 | 16.49 | -4.29  |  |  |  |  |
| 1890    | -6.78 | 20.97 | -3.91  | 2390    | -7.28 | 18.69 | -4.59  | 799     | -7.76 | 16.76 | -4.23  |  |  |  |  |
| 1910    | -6.25 | 23.72 | -3.19  | 2400    | -7.25 | 18.84 | -4.63  | 809     | -7.82 | 16.52 | -4.23  |  |  |  |  |
| 1930    | -5.87 | 25.88 | -2.81  | 2490    | -6.56 | 22.10 | -1.24  | 819     | -7.94 | 16.06 | -4.42  |  |  |  |  |
| 1950    | -5.45 | 28.51 | -2.25  | 2510    | -6.32 | 23.35 | -0.88  | 829     | -8.01 | 15.80 | -3.98  |  |  |  |  |
| 1970    | -5.04 | 31.31 | -1.65  | 2530    | -6.06 | 24.76 | -0.63  | RF4/Fre | 效率/dB | 效率/%  | 增益/dBi |  |  |  |  |
| 1990    | -4.62 | 34.51 | -1.02  | 2550    | -5.82 | 26.18 | -0.32  | 729     | -8.51 | 14.10 | -5.16  |  |  |  |  |
| 2010    | -4.21 | 37.95 | -0.57  | 2570    | -5.54 | 27.93 | -0.02  | 739     | -8.24 | 14.99 | -4.82  |  |  |  |  |
| 2030    | -4.17 | 38.26 | -0.52  | 2590    | -5.56 | 27.81 | 0.06   | 749     | -8.11 | 15.46 | -4.61  |  |  |  |  |
| 2050    | -4.06 | 39.27 | -0.46  | 2610    | -5.66 | 27.16 | 0.02   | 759     | -8.02 | 15.79 | -4.57  |  |  |  |  |
| 2070    | -4.18 | 38.18 | -0.64  | 2630    | -5.86 | 25.96 | -0.15  |         |       |       |        |  |  |  |  |
| 2090    | -3.97 | 40.11 | -0.31  | 2650    | -6.24 | 23.78 | -0.49  |         |       |       |        |  |  |  |  |
| 2110    | -3.72 | 42.51 | -0.04  | 2670    | -6.41 | 22.86 | -0.66  |         |       |       |        |  |  |  |  |
| 2130    | -4.18 | 38.17 | -0.50  | 2690    | -6.74 | 21.18 | -1.01  |         |       |       |        |  |  |  |  |
| 2150    | -4.77 | 33.37 | -0.72  |         |       |       |        |         |       |       |        |  |  |  |  |
| 2170    | -5.38 | 28.97 | -1.13  |         |       |       |        |         |       |       |        |  |  |  |  |
| 2190    | -6.66 | 21.58 | -2.21  |         |       |       |        |         |       |       |        |  |  |  |  |



GPS+WIFI 天线无源效率:

Passive efficiency of GPS+WIFI antenna

| Fre  | 效率/dB | 效率/%  | 增益/dBi |
|------|-------|-------|--------|
| 1570 | -3.77 | 41.98 | 0.10   |
| 1571 | -3.76 | 42.09 | 0.11   |
| 1572 | -3.74 | 42.25 | 0.13   |
| 1573 | -3.73 | 42.36 | 0.13   |
| 1574 | -3.72 | 42.49 | 0.14   |
| 1575 | -3.71 | 42.59 | 0.15   |
| 1576 | -3.70 | 42.69 | 0.15   |
| 1577 | -3.69 | 42.77 | 0.15   |
| 1578 | -3.68 | 42.86 | 0.16   |
| 1579 | -3.67 | 42.97 | 0.17   |
| 1580 | -3.66 | 43.05 | 0.17   |

| Fre  | 效率/dB | 效率/%  | 增益/dBi |
|------|-------|-------|--------|
| 2400 | -4.95 | 31.99 | 1.01   |
| 2410 | -4.77 | 33.34 | 1.05   |
| 2420 | -4.67 | 34.12 | 1.10   |
| 2430 | -4.47 | 35.73 | 1.13   |
| 2440 | -4.56 | 34.99 | 1.17   |
| 2450 | -4.33 | 36.90 | 1.20   |
| 2460 | -4.23 | 37.76 | 1.15   |
| 2470 | -4.66 | 34.20 | 1.19   |
| 2480 | -5.01 | 31.55 | 1.02   |

二：暗室有源测试数据

II: 3D Active test report of antenna

|         | Channel | TRP (dBm) | TIS (dBm) |
|---------|---------|-----------|-----------|
| GSM 850 | CH 128  | 26.3      |           |
|         | CH 190  | 26.5      |           |
|         | CH 251  | 27.3      | -99.5     |
| PGSM    | CH 1    | 26.4      |           |
|         | CH 62   | 26.6      |           |
|         | CH 124  | 26.6      | -99.7     |
| DCS     | CH 512  | 21.9      |           |
|         | CH 698  | 24.2      |           |
|         | CH 885  | 23.7      | -102.3    |
| PCS     | CH 512  | 21.5      |           |
|         | CH 661  | 21.7      |           |
|         | CH 810  | 23.0      | -103.5    |
| W850    | CH4132  | 19.8      |           |
|         | CH4183  | 19.5      |           |
|         | CH4233  | 20.1      | -103.2    |
| W900    | CH 2712 | 18.7      |           |
|         | CH 2787 | 18.9      |           |
|         | CH 2863 | 18.7      | -100.7    |
| W1700   | CH 1312 | 17.0      |           |
|         | CH 1412 | 19.0      |           |
|         | CH 1513 | 19.7      | -105.4    |
| W1900   | CH 9262 | 15.7      |           |
|         | CH 9400 | 16.2      |           |
|         | CH 9538 | 17.4      | -106.5    |
| W2100   | CH 9612 | 16.6      |           |
|         | CH 9750 | 17.3      |           |
|         | CH 9888 | 17.5      | -105.4    |

|          | Channel  | TRP (dBm) | TIS (dBm) |
|----------|----------|-----------|-----------|
| FDD B1   | CH18050  | 17.7      |           |
|          | CH18300  | 18.1      |           |
|          | CH18550  | 18.1      | -93.5     |
| FDD B2   | CH 18650 | 16.0      |           |
|          | CH 18900 | 17.6      |           |
|          | CH 19150 | 18.7      | -94.7     |
| FDD (B3) | CH19250  | 17.4      |           |
|          | CH19575  | 17.4      |           |
|          | CH19900  | 17.4      | -92.7     |
| FDD B4   | CH 20000 | 15.1      |           |
|          | CH 20175 | 18.4      |           |
|          | CH 20350 | 18.8      | -93.8     |
| FDD B5   | CH 20450 | 18.2      |           |
|          | CH 19525 | 18.0      |           |
|          | CH 20600 | 18.5      | -91.4     |
| FDD B7   | CH 20850 | 16.8      |           |
|          | CH 21100 | 16.5      |           |
|          | CH 21350 | 16.5      | -92.6     |
| FDD B8   | CH 21500 | 17.4      |           |
|          | CH 21625 | 17.4      |           |
|          | CH 21750 | 16.4      | -88.7     |
| FDD B12  | CH 23035 | 16.6      |           |
|          | CH 23095 | 17.3      |           |
|          | CH 23155 | 17.6      | -93.3     |
| FDD B13  | CH 23230 | 17.4      |           |
|          | CH 23230 | 16.9      |           |
|          | CH 23230 | 16.5      | -93.1     |
| FDD B17  | CH 23780 | 17.0      |           |
|          | CH 23790 | 17.2      |           |
|          | CH 23800 | 17.4      | -92.9     |

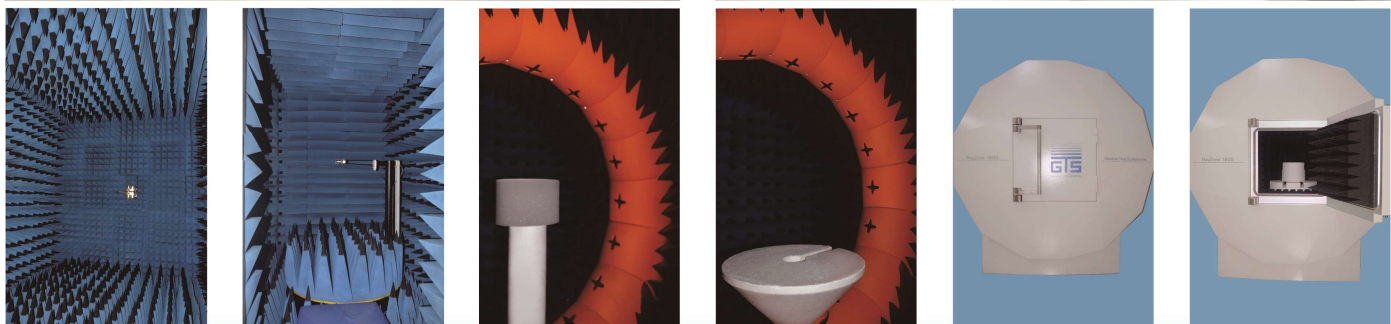


|           | Channel   | TRP (dBm) | TIS (dBm) |
|-----------|-----------|-----------|-----------|
| FDD B20   | CH 24200  | 18.7      |           |
|           | CH 24300  | 19.3      |           |
|           | CH 24400  | 19.1      | -91.3     |
| FDD B28A  | CH27260   | 16.4      |           |
|           | CH27360   | 18.1      |           |
|           | Ch27460   | 19.1      | -92.6     |
| FDD B28B  | CH27405   | 18.3      |           |
|           | CH27485   | 19.2      |           |
|           | CH27535   | 19.3      | -91.2     |
| LTE (B38) | CH37850   | 16.9      |           |
|           | CH38000   | 17.0      |           |
|           | CH38150   | 17.1      | -95.7     |
| LTE (B40) | CH38750   | 19.0      |           |
|           | CH39150   | 19.5      |           |
|           | CH39550   | 19.6      | -93.2     |
| LTE (B41) | CH 40340  | 16.6      |           |
|           | CH 40620  | 16.7      |           |
|           | CH 41140  | 15.5      | -96.3     |
| FDD B66   | CH 132022 | 15.1      |           |
|           | CH 132322 | 18.6      |           |
|           | CH 132622 | 18.3      | -92.9     |

GPS+WIFI 天线暗室测试数据:

3D Active test report of GPS+WIFI antenna

| Operator | Band                 | CH | MP Conducted |             | Antenna EFF FS |       | FS OTA |         | FS Space SPEC |      | Free Space Gap |        |
|----------|----------------------|----|--------------|-------------|----------------|-------|--------|---------|---------------|------|----------------|--------|
|          |                      |    | POWER        | Sensitivity | TRP            | TIS   | TRP    | TIS     | TRP           | TIS  | TRP            | TIS    |
| WIFI     | 2.4GWIFI<br>11b(11M) | L  | 18           | -87         | -4.72          | -4.72 | 12.6   | -83     | 12.5          | -84  | 0.1            | -1     |
|          | 2.4GWIFI<br>11g(54M) | L  | 17           | -75         | -4.72          | -4.72 | 11.5   | -71     | 11            | -71  | 0.5            | 0      |
|          | 2.4GWIFI<br>11n(65M) | L  | 16           | -74         | -4.72          | -4.72 | 10.3   | -70.1   | 11            | -71  | -0.7           | -0.9   |
| AGPS     | L1                   |    | /            | -152.5      | /              | -3.65 | /      | /       | /             | -148 | /              | -148   |
| YGPS     | L1                   |    | /            | /           | /              | /     | /      | -145.45 | /             | /    | /              | 145.45 |



OTA Standard Chamber

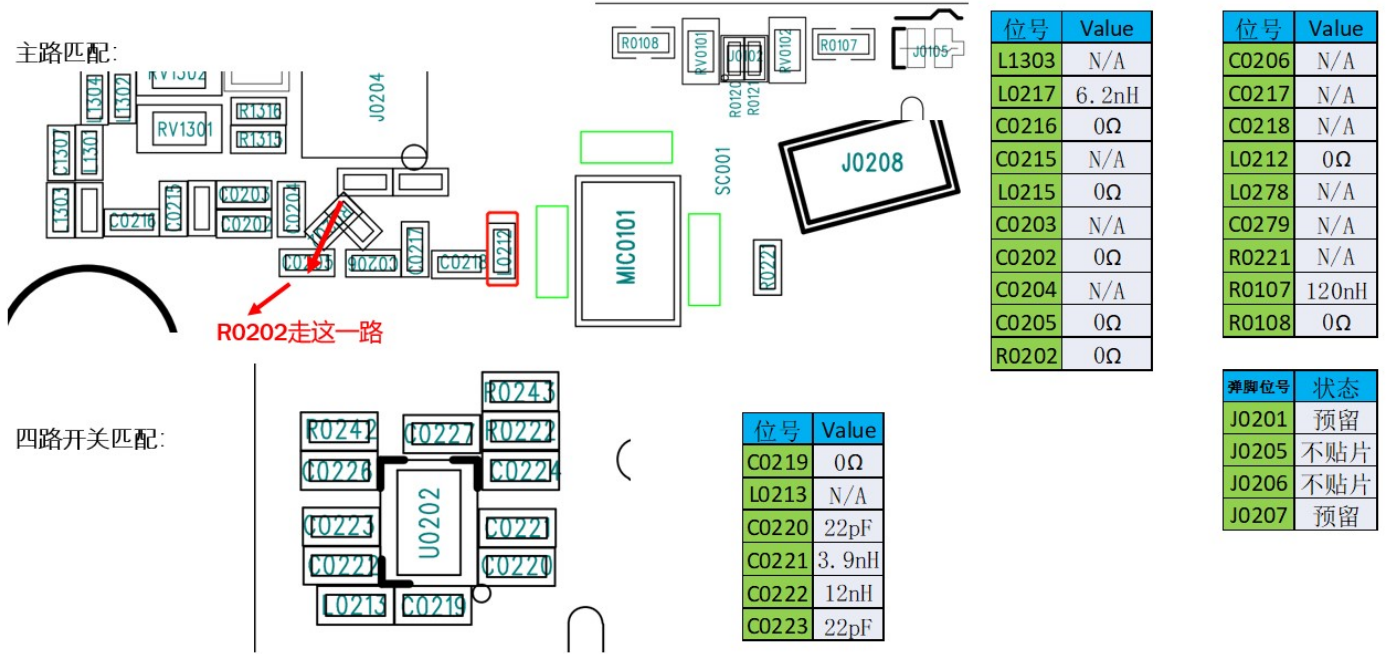


三：匹配电路

III: Matching circuit

主天线匹配电路:

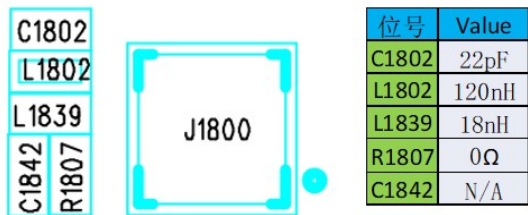
Main antenna matching circuit:



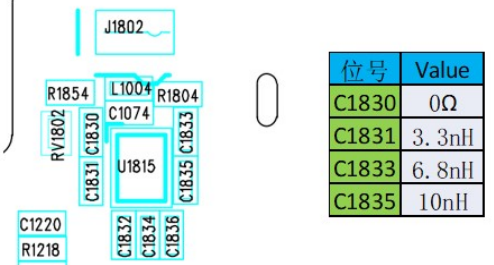
分集天线匹配电路:

Diversity antenna matching circuit

主路匹配:



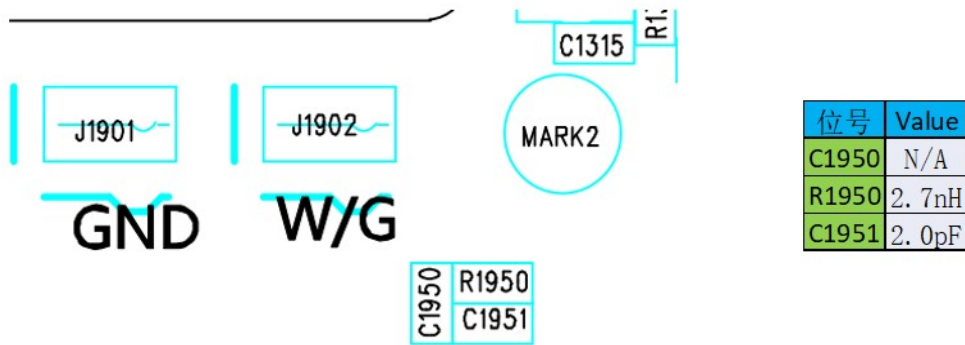
四路开关匹配:





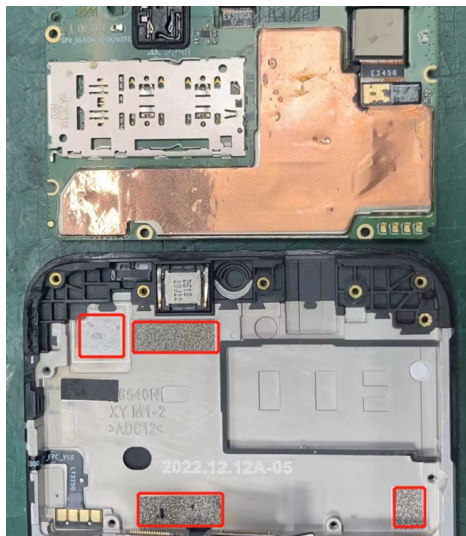
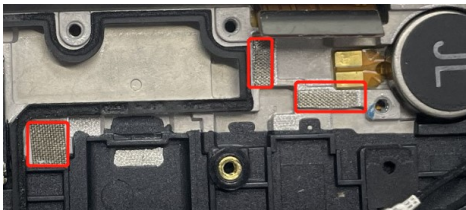
三合一天线匹配电路:

3 in 1 antenna matching circuit



四：环境处理

IV: Environmental treatment



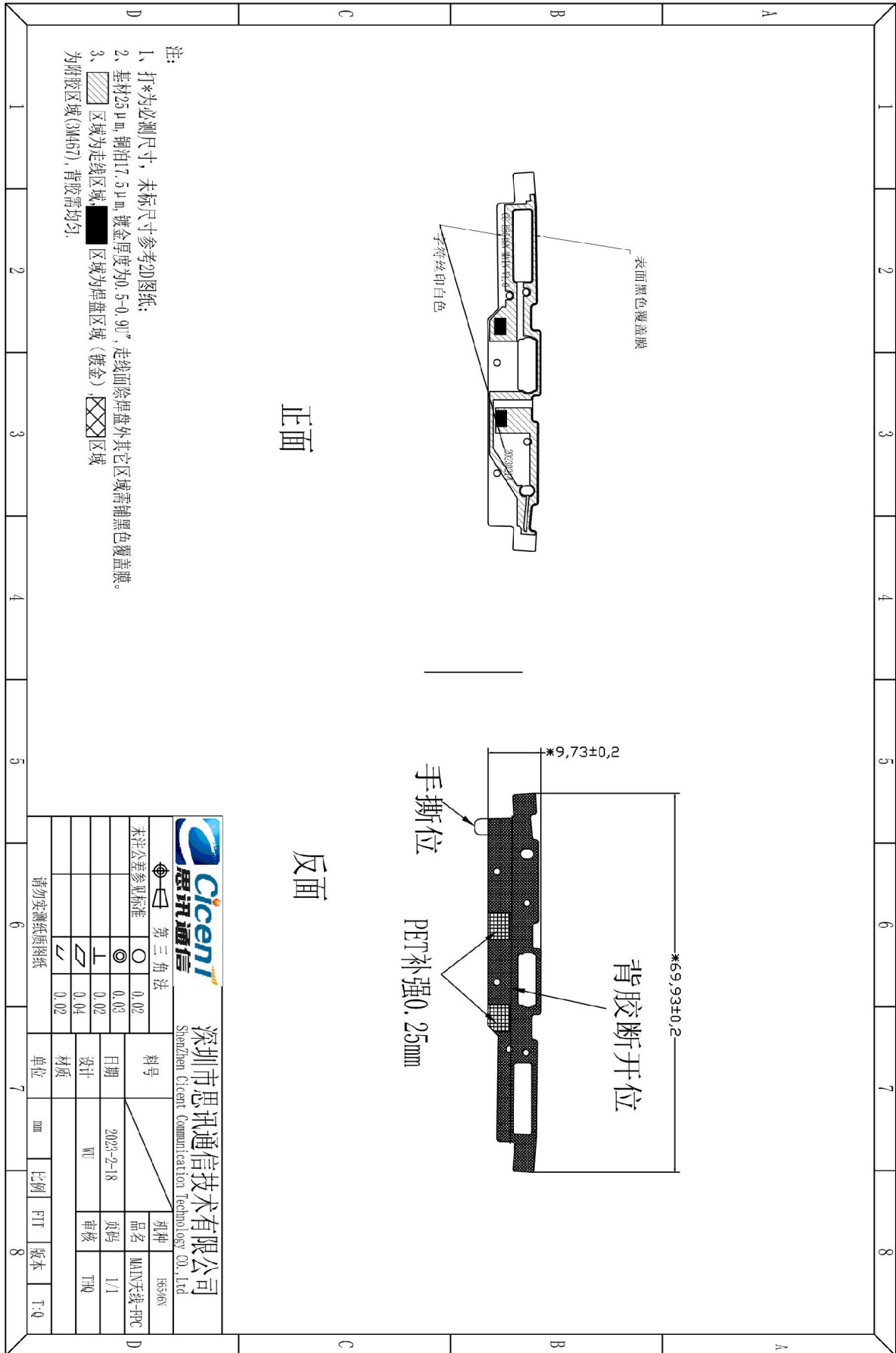
如上图红框所示的接地处理，需要保证与主板和小板的接地稳定性，主板屏蔽罩需要良好接地，目前主板背面为粘贴铜皮进行屏蔽，由于没有焊接，建议更换背胶更好的导电布，器件需要做好屏蔽。

As shown in the red box above, the grounding treatment needs to ensure the grounding stability with the main board and small board. The main board shield needs to be well grounded. At present, the back of the main board is pasted with copper sheet for shielding. Since there is no welding, it is recommended to replace the conductive cloth with better adhesive backing, and the device needs to be properly shielded.



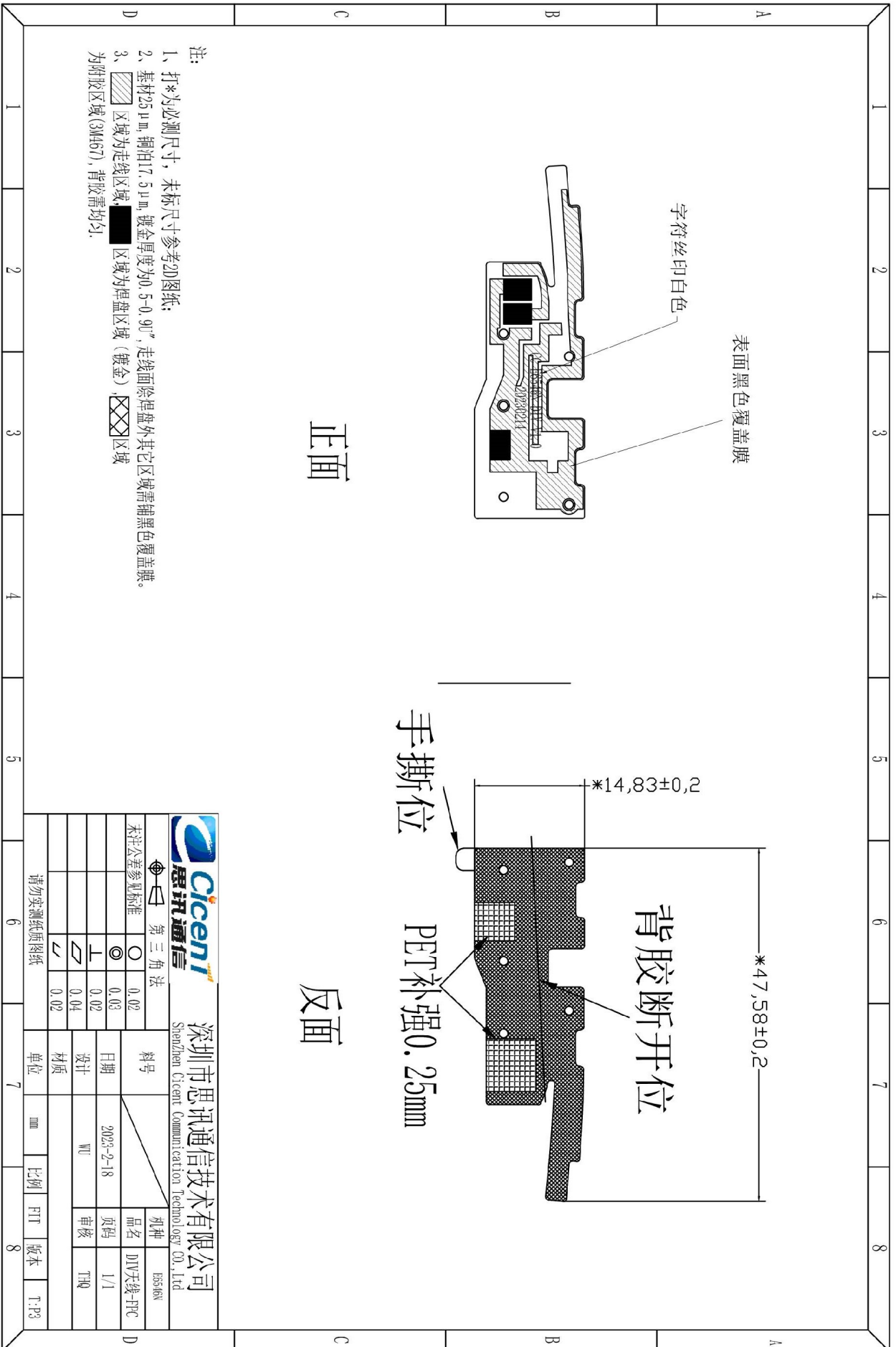
五：结构图档

V: Structure file

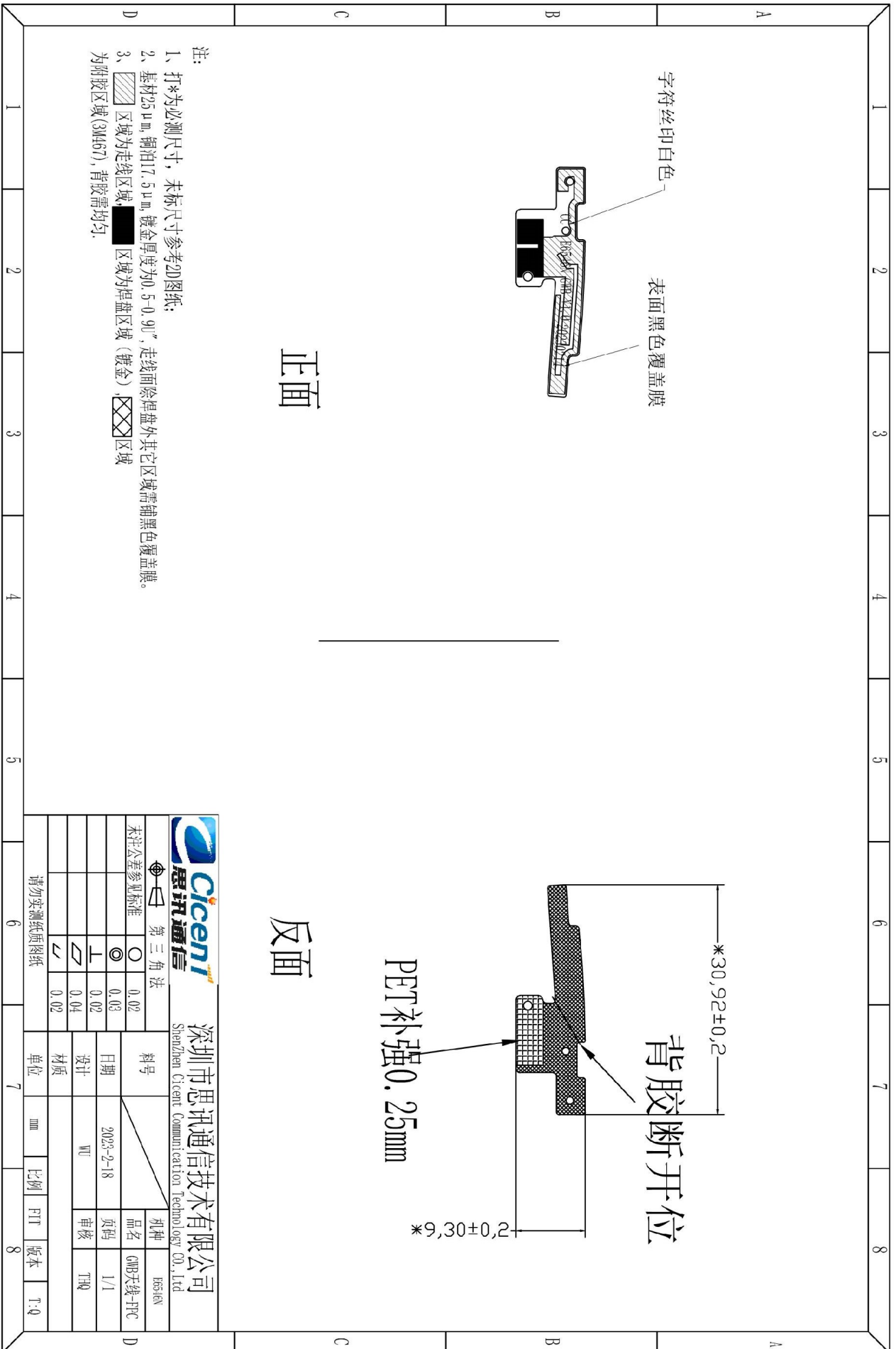


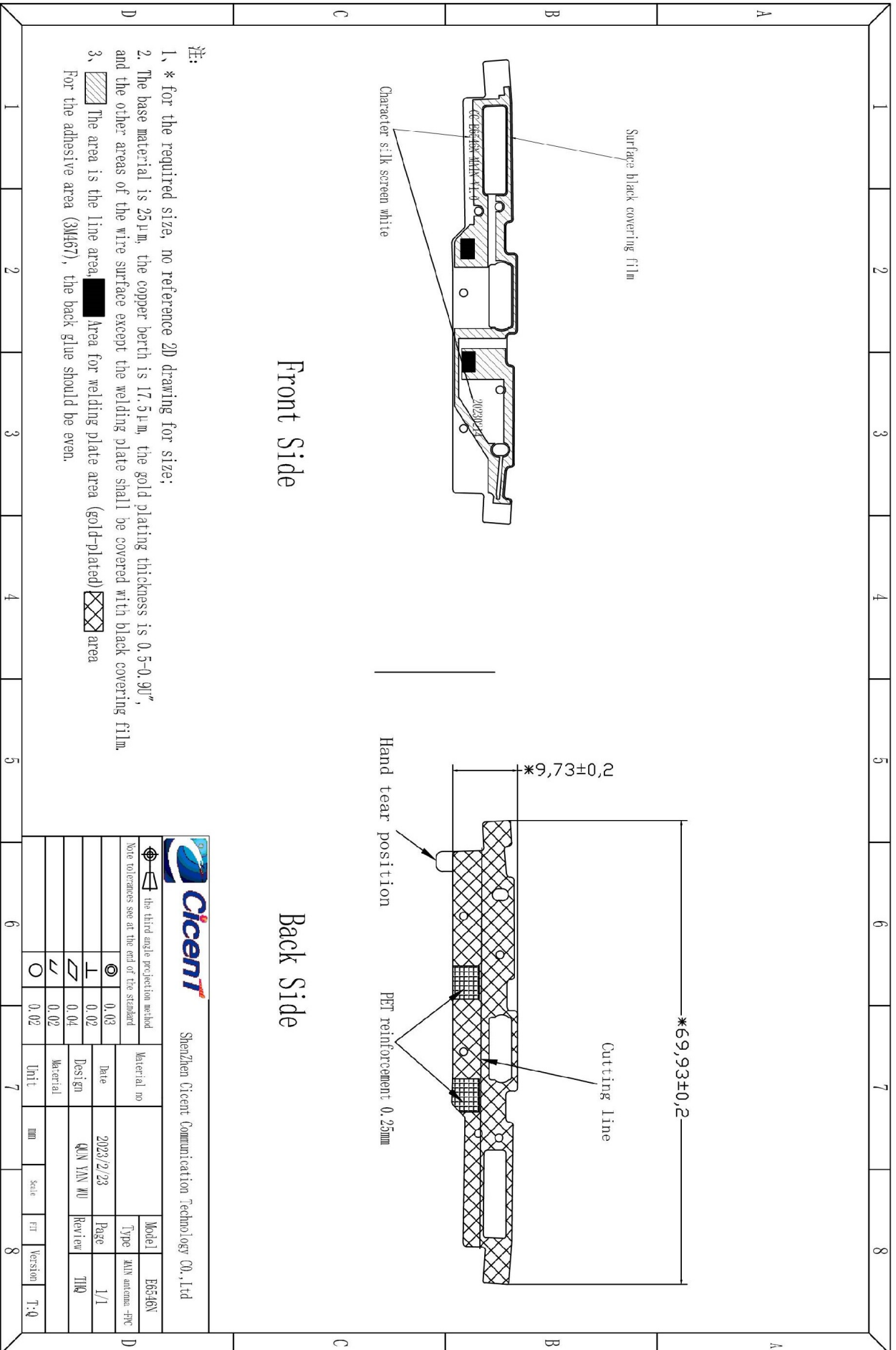
|          |  |      |  |           |  |            |  |
|----------|--|------|--|-----------|--|------------|--|
|          |  | 第三角法 |  | 料号        |  | 机种         |  |
| 未注公差参照标准 |  | 0.02 |  | 2023-2-18 |  | 86360V     |  |
| 日期       |  | 0.03 |  | 日期        |  | 品名         |  |
| 设计       |  | 0.02 |  | WU        |  | MAIN天线-IPC |  |
| 材料       |  | 0.04 |  | 审核        |  | 1/1        |  |
| 0.02     |  | TTRQ |  | T-Q       |  |            |  |
| 请勿实测纸质图纸 |  |      |  | 单位        |  |            |  |
| mm       |  |      |  | 比例        |  |            |  |
| 7        |  |      |  | FIT       |  |            |  |
| 8        |  |      |  | 版本        |  |            |  |

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Shenzhen Cicent Communication Technology Co., Ltd



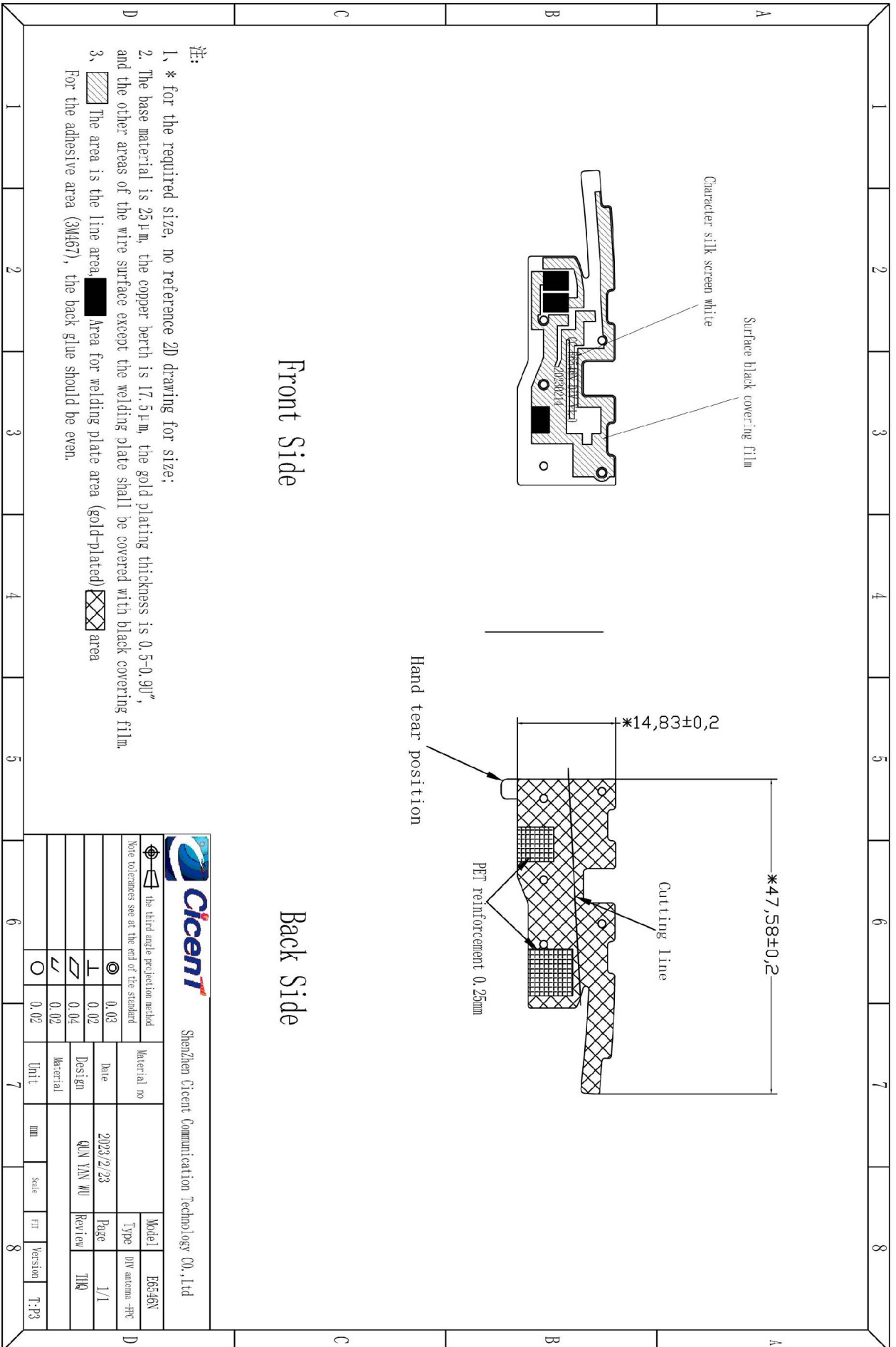


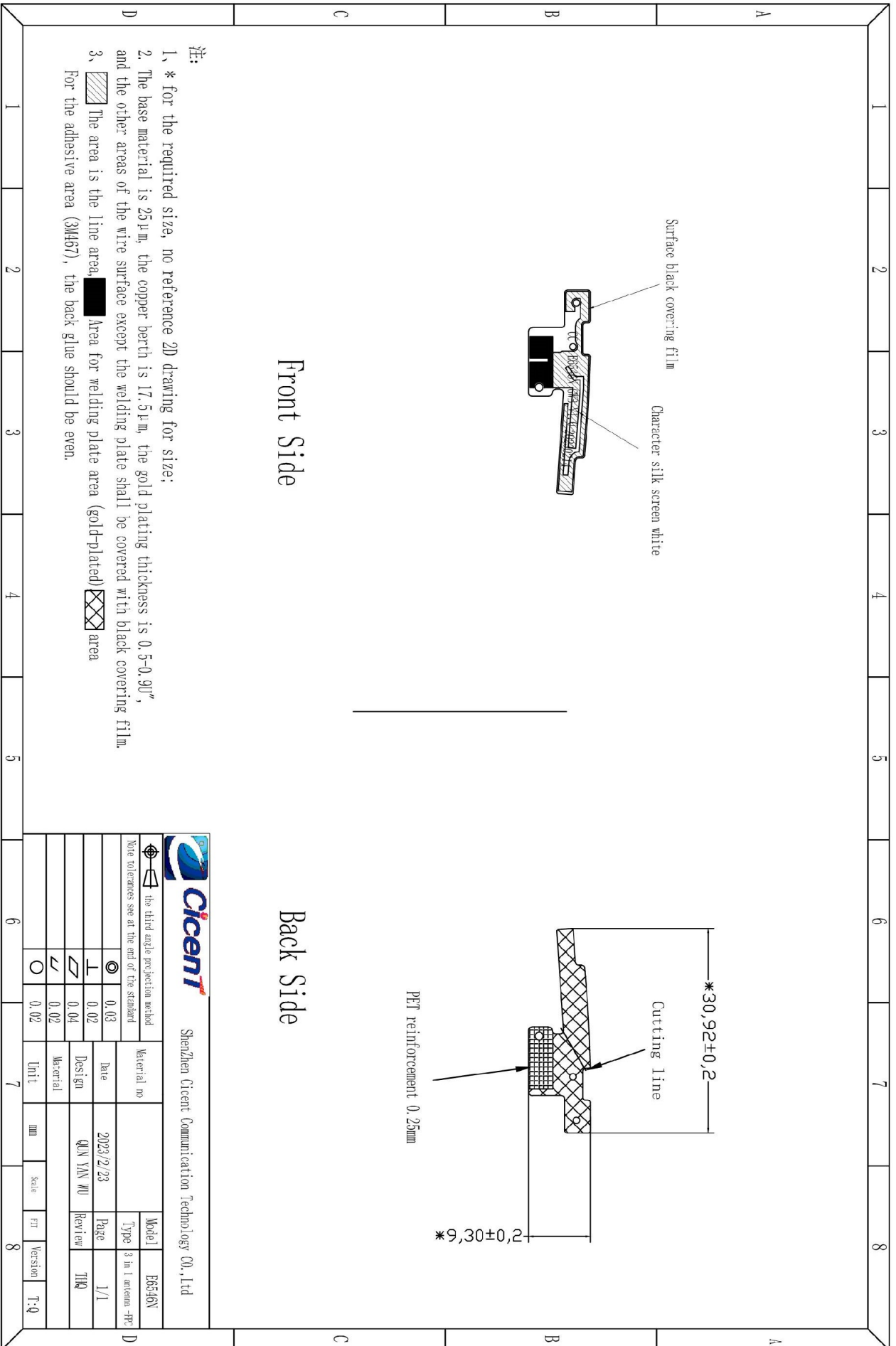



















- 注:
- \* for the required size, no reference 2D drawing for size;
  - The base material is 25 μm, the copper berth is 17.5 μm, the gold plating thickness is 0.5-0.9 μm, and the other areas of the wire surface except the welding plate shall be covered with black covering film.
  - The area is the line area, Area for welding plate area (gold-plated) area  
 For the adhesive area (3M467), the back glue should be even.

|  |  |   |                  |
|--|--|---|------------------|
|  |  | Shenzhen Cicent Communication Technology CO., Ltd |                  |
|  | the third angle projection method              | Material no                                       | Model            |
|  | Note tolerances see at the end of the standard | Date  | Type             |
|  |  | 2023/2/23   | MAIN antenna -PC |
|  |  | QUN YAN WU  | Page             |
|  |  |   | 1/1              |
|  |  |   | Review           |
|  |  |   | TIHQ             |
|  |  | Unit  | Version          |
|  |  | mm  | T:Q              |
|  |  | scale   |                  |
|  |  | ETI   |                  |
|  |  | Version   |                  |
|  |  |   |                  |





- 注:
- 1、\* for the required size, no reference 2D drawing for size;
  2. The base material is 25 μm, the copper berth is 17.5 μm, the gold plating thickness is 0.5-0.9 μm, and the other areas of the wire surface except the welding plate shall be covered with black covering film.
  - 3、 The area is the line area,  Area for welding plate area (gold-plated)  area
- For the adhesive area (3M467), the back glue should be even.

|   |  |   |                    |
|---|--|---|--------------------|
|  |  | Shenzhen Cicent Communication Technology CO., Ltd |                    |
|  | the third angle projection method              | Material no                                       | Model              |
|  | Note tolerances see at the end of the standard | Date  | Type               |
|  |  | 2023/2/23   | 3 in 1 antenna FRP |
|  |  | Design  | Page               |
|  |  | QIN YAN WU  | 1/1                |
|  |  | Material  | Review             |
|  |  | Unit  | THQ                |
|  |  | mm  | Scale              |
|  |  | 0.02  | ET                 |
|  |  |   | Version            |
|  |  |   | T-Q                |