

样品承认书

文档编号:TD

|          |                              |
|----------|------------------------------|
| P/N      |                              |
| 样品适应机型   | L7                           |
| 样品描述     | PCB天线 WIFI/BT 305MM * L7 副天线 |
| 项目部      |                              |
| 测试部      |                              |
| 开发部/NPI部 |                              |
| 品保部      |                              |
| 批准       |                              |
| 版本号      | V1.0                         |
| 备注       |                              |

表单编号： CGTMD-QR-ZNPC-014/1.1



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

规格承认书  
Approval Sheet

|                        |                                          |                      |            |
|------------------------|------------------------------------------|----------------------|------------|
| 客户名称<br>Customer       | 长城                                       | 日期<br>Data           | 2024/08/08 |
| 产品名称<br>Product        | WiFi/BT副天线                               | 客户机型<br>Models       | L7         |
| 料号<br>P/N              | F1172-14MG-305                           | 客户料号<br>Customer P/N |            |
| 规格描述<br>Specifications | 黑色PCB,, 厚度0.2mm; RF0.81四代端子灰色同轴线:L=305mm |                      |            |

|                                                                                    |                                |
|------------------------------------------------------------------------------------|--------------------------------|
| 供应商承认签印<br>Vender Approved By                                                      | 客户承认签印<br>Customer Approved By |
|  |                                |
| Checked By:                                                                        | Checked By:                    |
| Audit By:                                                                          | Audit By:                      |
| Approval By:                                                                       | Approval By:                   |

| 文件修订履历表       |                            |                |                |              |            |
|---------------|----------------------------|----------------|----------------|--------------|------------|
| 版本<br>Version | 修订内容<br>Revise The Content | 修订人<br>Revused | 核准<br>Approval | 修订日期<br>Date | 备注<br>Note |
|               |                            |                |                |              |            |
|               |                            |                |                |              |            |
|               |                            |                |                |              |            |

地址: 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

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## Specification

### 1.1 Electrical Properties

| Characteristics | Specifications            |
|-----------------|---------------------------|
| Working Band    | 2.4G WiFi/5G WiFi         |
| Antenna From    | PIFA                      |
| Impedance       | 50 $\Omega$               |
| Polarization    | Linear                    |
| Peak Effi       | 37%@2.4G;<br>52%@5G       |
| Peak Gain       | 0.2dBi@2.4G;<br>2.6dBi@5G |

### 1.2 Physical Properties

| Characteristics | Specifications |
|-----------------|----------------|
| Operating Temp  | -10°C~+60°C    |
| Storage Temp    | -10°C~+70°C    |
| Humidity        | 10~95%RH       |

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## WiFi Ant Test Information

| Frequency                  | 2. 4G (2402~2483) Mhz                                                               | 5G (5150~5850) Mhz |
|----------------------------|-------------------------------------------------------------------------------------|--------------------|
| Module information         |  |                    |
| Driver version information |                                                                                     |                    |

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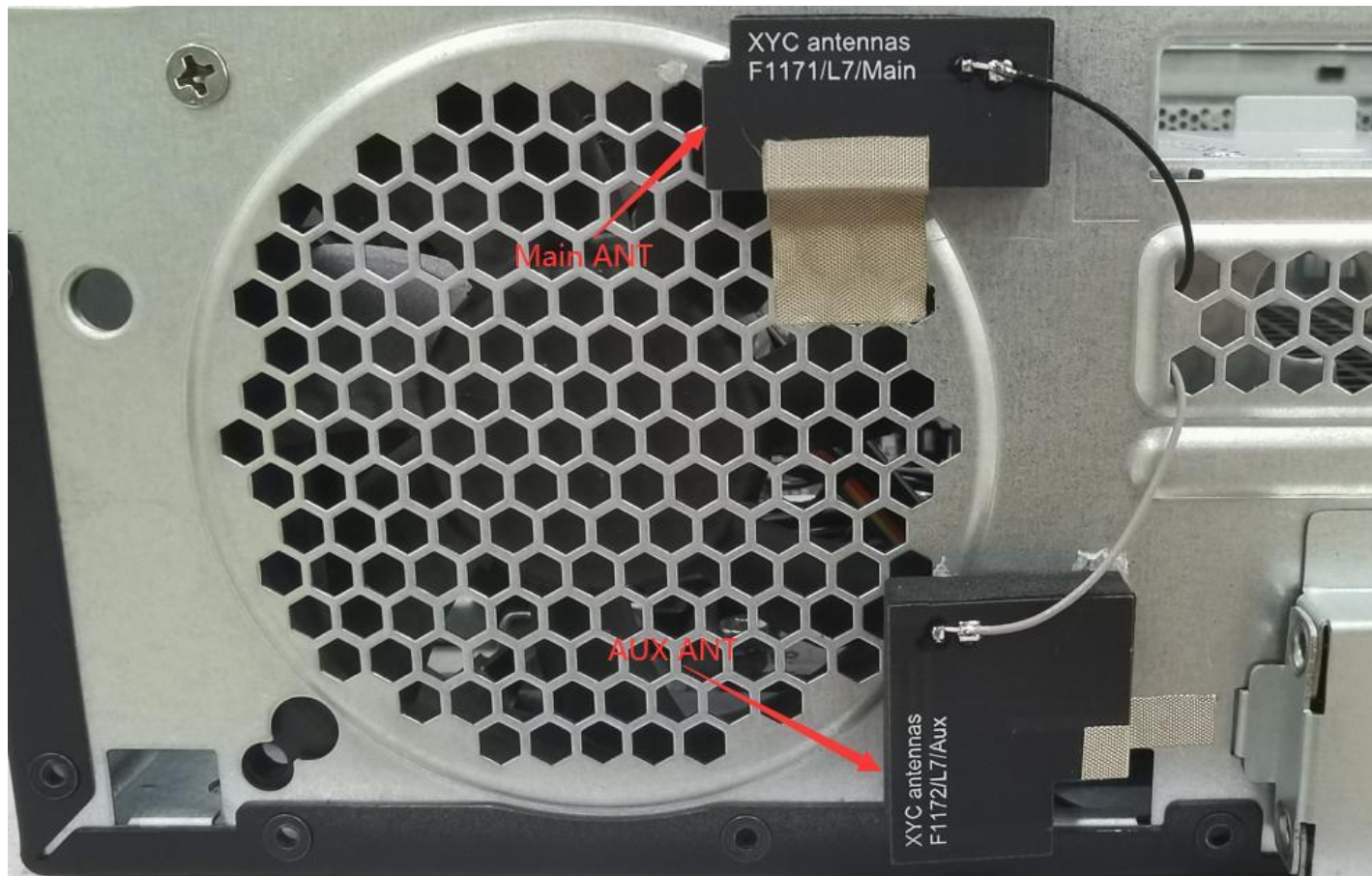
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## Antenna Placement



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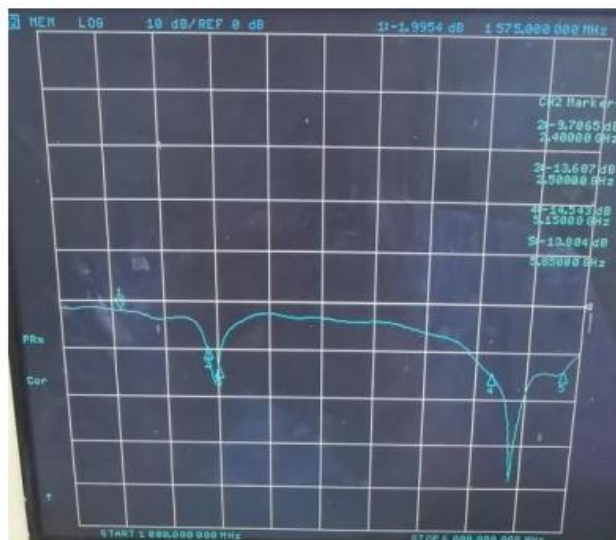
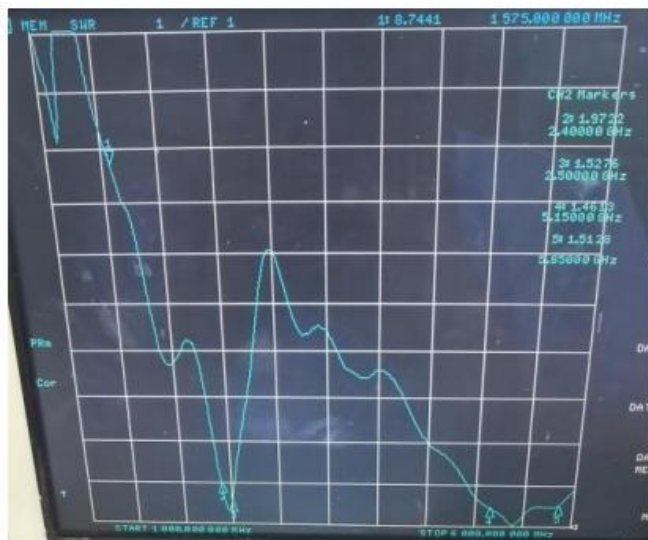
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## Test Data

### S11 Parameter-VSWR



| Frequency (MHZ)  | 2400  | 2500   | 5150   | 5850   |
|------------------|-------|--------|--------|--------|
| VSWR             | 1.97  | 1.52   | 1.46   | 1.51   |
| Return Loss (DB) | -9.70 | -13.60 | -14.54 | -13.80 |

### WiFi Active Test Data

| 802.11b | Frequency | TRP         |       | TIS          |        |
|---------|-----------|-------------|-------|--------------|--------|
|         | 2412      | CH1 11Mbps  | 10.49 | CH1 11Mbps   | -80.41 |
|         | 2437      | CH6 11Mbps  | 10.19 | CH6 11Mbps   | -80.37 |
|         | 2467      | CH11 11Mbps | 10.11 | CH11 11Mbps  | -80.12 |
| 802.11a |           | TRP         |       | TIS          |        |
|         | 5180      | CH36 6Mbps  | 9.34  | CH36 54Mbps  | -67.57 |
|         | 5300      | CH60 6Mbps  | 9.6   | CH60 54Mbps  | -68.38 |
|         | 5805      | CH161 6Mbps | 9.52  | CH161 54Mbps | -68.59 |

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Efficiency Table

| Passive Test For WIFI2.4 |             |              |               |               |            |            |             |             |                     |                    |              |              |
|--------------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|---------------------|--------------------|--------------|--------------|
| Freq<br>(MHz)            | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) | irectivity<br>(dBi) | Beamwidth<br>(3dB) | AttH<br>(dB) | AttV<br>(dB) |
| 2400                     | 27.46       | -5.61        | -0.84         | -2.99         | 14.583     | 12.878     | -0.84       | -22.09      | 4.78                | 30                 | 45.78        | 46.01        |
| 2410                     | 24.93       | -6.03        | -1.23         | -3.38         | 13.397     | 11.53      | -1.23       | -21.89      | 4.8                 | 30                 | 46.01        | 46.29        |
| 2420                     | 27.25       | -5.65        | -0.78         | -2.93         | 14.751     | 12.499     | -0.78       | -20.34      | 4.87                | 60                 | 45.73        | 46           |
| 2430                     | 30.1        | -5.21        | -0.22         | -2.37         | 16.388     | 13.714     | -0.22       | -18.95      | 5                   | 60                 | 46.01        | 46.36        |
| 2440                     | 30.89       | -5.1         | -0.15         | -2.3          | 16.928     | 13.96      | -0.15       | -17.91      | 4.96                | 60                 | 46.12        | 46.48        |
| 2450                     | 29.64       | -5.28        | -0.46         | -2.61         | 16.235     | 13.409     | -0.46       | -17.69      | 4.82                | 60                 | 46.12        | 46.54        |
| 2460                     | 31.67       | -4.99        | -0.26         | -2.41         | 17.334     | 14.34      | -0.26       | -17.84      | 4.73                | 60                 | 46.14        | 46.52        |
| 2470                     | 35.53       | -4.49        | 0.13          | -2.02         | 19.531     | 15.998     | 0.13        | -18.5       | 4.62                | 30                 | 46.4         | 46.8         |
| 2480                     | 37.09       | -4.31        | 0.23          | -1.92         | 20.464     | 16.624     | 0.23        | -19.6       | 4.53                | 60                 | 46.26        | 46.64        |
| 2490                     | 36.99       | -4.32        | 0.18          | -1.97         | 20.422     | 16.57      | 0.18        | -20.87      | 4.5                 | 90                 | 46.51        | 46.91        |
| 2500                     | 37.96       | -4.21        | 0.12          | -2.03         | 21.051     | 16.911     | 0.12        | -21.58      | 4.33                | 90                 | 46.47        | 46.86        |
| Passive Test For WIFI5G  |             |              |               |               |            |            |             |             |                     |                    |              |              |
| Freq<br>(MHz)            | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) | irectivity<br>(dBi) | Beamwidth<br>(3dB) | AttH<br>(dB) | AttV<br>(dB) |
| 5150                     | 31.64       | -5           | -0.72         | -2.87         | 19.076     | 12.564     | -0.72       | -19.9       | 4.27                | 30                 | 49.82        | 49.4         |
| 5170                     | 29.8        | -5.26        | -0.97         | -3.12         | 17.932     | 11.871     | -0.97       | -19.8       | 4.29                | 30                 | 50.13        | 49.77        |
| 5190                     | 33.78       | -4.71        | -0.41         | -2.56         | 20.345     | 13.433     | -0.41       | -20.13      | 4.31                | 0                  | 50.42        | 49.95        |
| 5210                     | 32.97       | -4.82        | -0.37         | -2.52         | 19.843     | 13.131     | -0.37       | -20.67      | 4.45                | 0                  | 50.88        | 50.49        |
| 5230                     | 35.34       | -4.52        | 0             | -2.15         | 21.369     | 13.975     | 0           | -20.17      | 4.52                | 0                  | 50.42        | 50.08        |
| 5250                     | 35.96       | -4.44        | 0.13          | -2.02         | 21.641     | 14.319     | 0.13        | -19.93      | 4.57                | 0                  | 51.02        | 50.72        |
| 5270                     | 41.89       | -3.78        | 0.83          | -1.32         | 24.857     | 17.029     | 0.83        | -18.88      | 4.61                | 0                  | 50.85        | 50.6         |
| 5290                     | 41.78       | -3.79        | 0.85          | -1.3          | 24.525     | 17.256     | 0.85        | -20.02      | 4.64                | 0                  | 51.34        | 51.12        |
| 5310                     | 40.64       | -3.91        | 0.74          | -1.41         | 23.673     | 16.967     | 0.74        | -20.87      | 4.65                | 0                  | 50.44        | 50.36        |
| 5330                     | 42.1        | -3.76        | 1.05          | -1.1          | 24.259     | 17.845     | 1.05        | -21.29      | 4.8                 | 0                  | 51.08        | 51.01        |
| 5350                     | 45.73       | -3.4         | 1.6           | -0.55         | 26.054     | 19.678     | 1.6         | -19.69      | 5                   | 0                  | 51.02        | 51.01        |
| 5370                     | 45.55       | -3.42        | 1.53          | -0.62         | 25.508     | 20.038     | 1.53        | -18.62      | 4.95                | 0                  | 50.91        | 50.95        |
| 5390                     | 41.02       | -3.87        | 1.04          | -1.11         | 22.643     | 18.377     | 1.04        | -20.67      | 4.91                | 0                  | 50.46        | 50.43        |
| 5410                     | 47.7        | -3.22        | 1.87          | -0.28         | 25.952     | 21.743     | 1.87        | -20.31      | 5.08                | 0                  | 51.18        | 51.09        |
| 5430                     | 44.14       | -3.55        | 1.73          | -0.42         | 23.855     | 20.282     | 1.73        | -22.32      | 5.28                | 0                  | 50.69        | 50.7         |
| 5450                     | 47.33       | -3.25        | 2.02          | -0.13         | 25.325     | 22.007     | 2.02        | -23.34      | 5.27                | 0                  | 50.71        | 50.85        |
| 5470                     | 45.6        | -3.41        | 1.82          | -0.33         | 24.395     | 21.203     | 1.82        | -22.97      | 5.23                | 0                  | 50.93        | 50.83        |
| 5490                     | 44.93       | -3.47        | 1.73          | -0.42         | 24.096     | 20.835     | 1.73        | -23.15      | 5.21                | 0                  | 50.92        | 50.79        |
| 5510                     | 47.28       | -3.25        | 2.01          | -0.14         | 25.339     | 21.946     | 2.01        | -21.59      | 5.27                | 0                  | 51.18        | 51.16        |
| 5530                     | 47.81       | -3.2         | 2.23          | 0.08          | 25.658     | 22.152     | 2.23        | -21.88      | 5.43                | 0                  | 51.44        | 51.3         |
| 5550                     | 52.26       | -2.82        | 2.68          | 0.53          | 28.114     | 24.148     | 2.68        | -17.95      | 5.49                | 0                  | 51.89        | 51.76        |
| 5570                     | 46.8        | -3.3         | 2.29          | 0.14          | 25.312     | 21.492     | 2.29        | -15.4       | 5.58                | 0                  | 51.42        | 51.33        |
| 5590                     | 48.36       | -3.16        | 2.51          | 0.36          | 26.279     | 22.078     | 2.51        | -15.68      | 5.67                | 0                  | 51.71        | 51.76        |
| 5610                     | 45.01       | -3.47        | 2.37          | 0.22          | 24.373     | 20.639     | 2.37        | -15.96      | 5.84                | 0                  | 51.17        | 51.22        |
| 5630                     | 48.81       | -3.11        | 2.89          | 0.74          | 26.384     | 22.43      | 2.89        | -14.65      | 6                   | 0                  | 51.78        | 51.77        |
| 5650                     | 44.63       | -3.5         | 2.45          | 0.3           | 24.175     | 20.455     | 2.45        | -13.52      | 5.95                | 0                  | 51.47        | 51.55        |
| 5670                     | 43.44       | -3.62        | 2.32          | 0.17          | 23.787     | 19.653     | 2.32        | -13.14      | 5.94                | 0                  | 52.12        | 52.28        |
| 5690                     | 43.97       | -3.57        | 2.32          | 0.17          | 24.102     | 19.872     | 2.32        | -13.16      | 5.89                | 0                  | 52.12        | 52.25        |
| 5710                     | 41.29       | -3.84        | 2.13          | -0.02         | 22.285     | 19.002     | 2.13        | -14.24      | 5.97                | 0                  | 51.95        | 52.05        |
| 5730                     | 46.63       | -3.31        | 2.52          | 0.37          | 24.946     | 21.689     | 2.52        | -14.11      | 5.83                | 0                  | 51.59        | 51.69        |
| 5750                     | 39.63       | -4.02        | 1.72          | -0.43         | 21.299     | 18.328     | 1.72        | -14.48      | 5.74                | 0                  | 51.12        | 51.15        |
| 5770                     | 43.36       | -3.63        | 1.93          | -0.22         | 23.421     | 19.942     | 1.93        | -13.03      | 5.56                | 0                  | 51.02        | 51.06        |
| 5790                     | 39.7        | -4.01        | 1.49          | -0.66         | 21.4       | 18.304     | 1.49        | -13.74      | 5.5                 | 0                  | 51.08        | 51.16        |
| 5810                     | 43.65       | -3.6         | 2.03          | -0.12         | 23.234     | 20.414     | 2.03        | -15.17      | 5.63                | 0                  | 51.36        | 51.43        |
| 5830                     | 43.16       | -3.65        | 2.03          | -0.12         | 23.228     | 19.93      | 2.03        | -16.97      | 5.68                | 0                  | 51.65        | 51.66        |
| 5850                     | 46.7        | -3.31        | 2.42          | 0.27          | 25.58      | 21.117     | 2.42        | -15.83      | 5.73                | 0                  | 51.88        | 52.05        |

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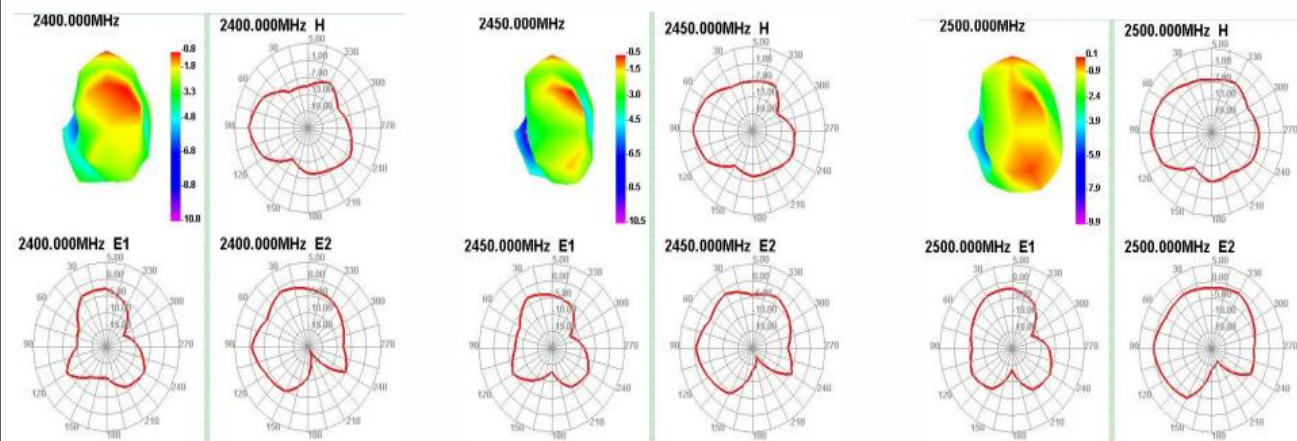
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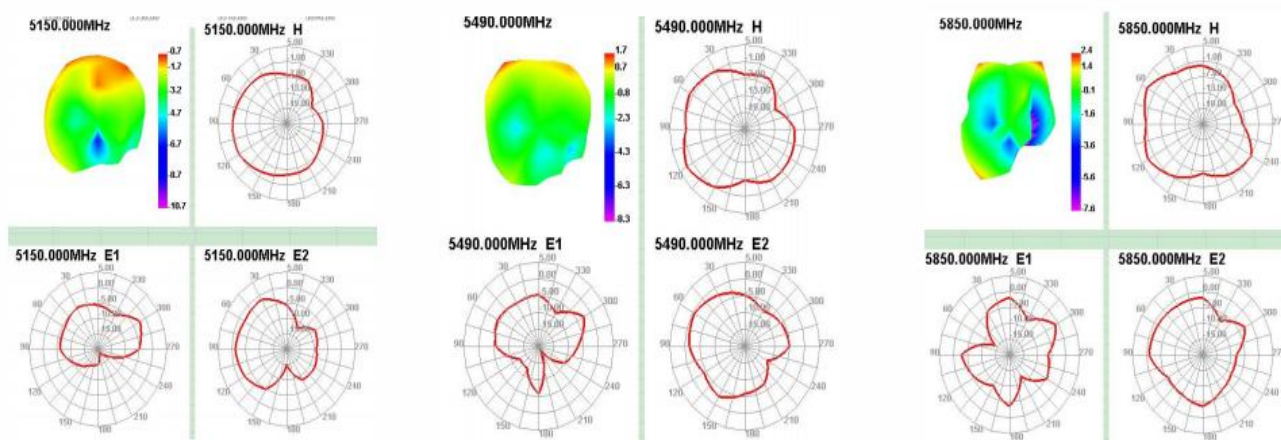
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### Radiation Pattern (2.4G)



### Radiation Pattern (5G)



### BT Test

测试环境：开放空间(通道)

测试工具：蓝牙音响

测试距离：10/m

结果：播放音乐流畅，无杂音。

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### Throughput Test(2.4G)

|    |     |               |             |                |    |     |               |             |               |
|----|-----|---------------|-------------|----------------|----|-----|---------------|-------------|---------------|
| 上行 |     |               |             |                | 下行 |     |               |             |               |
| 图片 | 360 | 17.0-18.0 sec | 11.5 MBytes | 96.3 Mbits/sec | 图片 | 356 | 17.0-18.0 sec | 27.3 MBytes | 229 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 18.0-19.0 sec | 15.8 MBytes | 133 Mbits/sec  |    | 356 | 18.0-19.0 sec | 17.9 MBytes | 150 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 19.0-20.0 sec | 13.2 MBytes | 111 Mbits/sec  |    | 356 | 19.0-20.0 sec | 14.6 MBytes | 123 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 20.0-21.0 sec | 12.1 MBytes | 101 Mbits/sec  |    | 356 | 20.0-21.0 sec | 14.0 MBytes | 118 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 21.0-22.0 sec | 15.1 MBytes | 127 Mbits/sec  |    | 356 | 21.0-22.0 sec | 15.8 MBytes | 133 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 22.0-23.0 sec | 14.8 MBytes | 125 Mbits/sec  |    | 356 | 22.0-23.0 sec | 13.4 MBytes | 113 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 23.0-24.0 sec | 13.5 MBytes | 113 Mbits/sec  |    | 356 | 23.0-24.0 sec | 15.8 MBytes | 133 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 24.0-25.0 sec | 15.4 MBytes | 129 Mbits/sec  |    | 356 | 24.0-25.0 sec | 13.0 MBytes | 109 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 25.0-26.0 sec | 9.58 MBytes | 80.3 Mbits/sec |    | 356 | 25.0-26.0 sec | 15.4 MBytes | 129 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 26.0-27.0 sec | 12.7 MBytes | 107 Mbits/sec  |    | 356 | 26.0-27.0 sec | 13.3 MBytes | 111 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 27.0-28.0 sec | 9.82 MBytes | 82.4 Mbits/sec |    | 356 | 27.0-28.0 sec | 14.8 MBytes | 124 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 28.0-29.0 sec | 14.1 MBytes | 118 Mbits/sec  |    | 356 | 28.0-29.0 sec | 16.6 MBytes | 139 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 29.0-30.0 sec | 14.1 MBytes | 118 Mbits/sec  |    | 356 | 29.0-30.0 sec | 16.6 MBytes | 139 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 0.0-30.0 sec  | 377 MBytes  | 105 Mbits/sec  |    | 356 | 0.0-30.0 sec  | 478 MBytes  | 134 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth      |    | ID  | Interval      | Transfer    | Bandwidth     |

### Throughput Test(5G)

| 上行 |     |               |             | 下行            |    |     |               |             |               |
|----|-----|---------------|-------------|---------------|----|-----|---------------|-------------|---------------|
| 图片 | 360 | 17.0-18.0 sec | 104 MBytes  | 873 Mbits/sec | 图片 | 364 | 17.0-18.0 sec | 105 MBytes  | 885 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 18.0-19.0 sec | 103 MBytes  | 865 Mbits/sec |    | 364 | 18.0-19.0 sec | 102 MBytes  | 859 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 19.0-20.0 sec | 96.6 MBytes | 810 Mbits/sec |    | 364 | 19.0-20.0 sec | 107 MBytes  | 894 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 20.0-21.0 sec | 79.0 MBytes | 662 Mbits/sec |    | 364 | 20.0-21.0 sec | 105 MBytes  | 879 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 21.0-22.0 sec | 90.6 MBytes | 760 Mbits/sec |    | 364 | 21.0-22.0 sec | 104 MBytes  | 870 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 22.0-23.0 sec | 75.1 MBytes | 630 Mbits/sec |    | 364 | 22.0-23.0 sec | 101 MBytes  | 847 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 23.0-24.0 sec | 105 MBytes  | 877 Mbits/sec |    | 364 | 23.0-24.0 sec | 90.6 MBytes | 760 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 24.0-25.0 sec | 67.0 MBytes | 562 Mbits/sec |    | 364 | 24.0-25.0 sec | 91.3 MBytes | 765 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 25.0-26.0 sec | 96.4 MBytes | 809 Mbits/sec |    | 364 | 25.0-26.0 sec | 97.9 MBytes | 821 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 26.0-27.0 sec | 77.2 MBytes | 648 Mbits/sec |    | 364 | 26.0-27.0 sec | 106 MBytes  | 892 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 27.0-28.0 sec | 61.4 MBytes | 515 Mbits/sec |    | 364 | 27.0-28.0 sec | 102 MBytes  | 857 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 28.0-29.0 sec | 94.7 MBytes | 795 Mbits/sec |    | 364 | 28.0-29.0 sec | 99.1 MBytes | 831 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 29.0-30.0 sec | 93.3 MBytes | 783 Mbits/sec |    | 364 | 29.0-30.0 sec | 96.9 MBytes | 813 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |
|    | 360 | 0.0-30.0 sec  | 2.83 GBytes | 810 Mbits/sec |    | 364 | 0.0-30.0 sec  | 2.91 GBytes | 832 Mbits/sec |
|    | ID  | Interval      | Transfer    | Bandwidth     |    | ID  | Interval      | Transfer    | Bandwidth     |

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Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

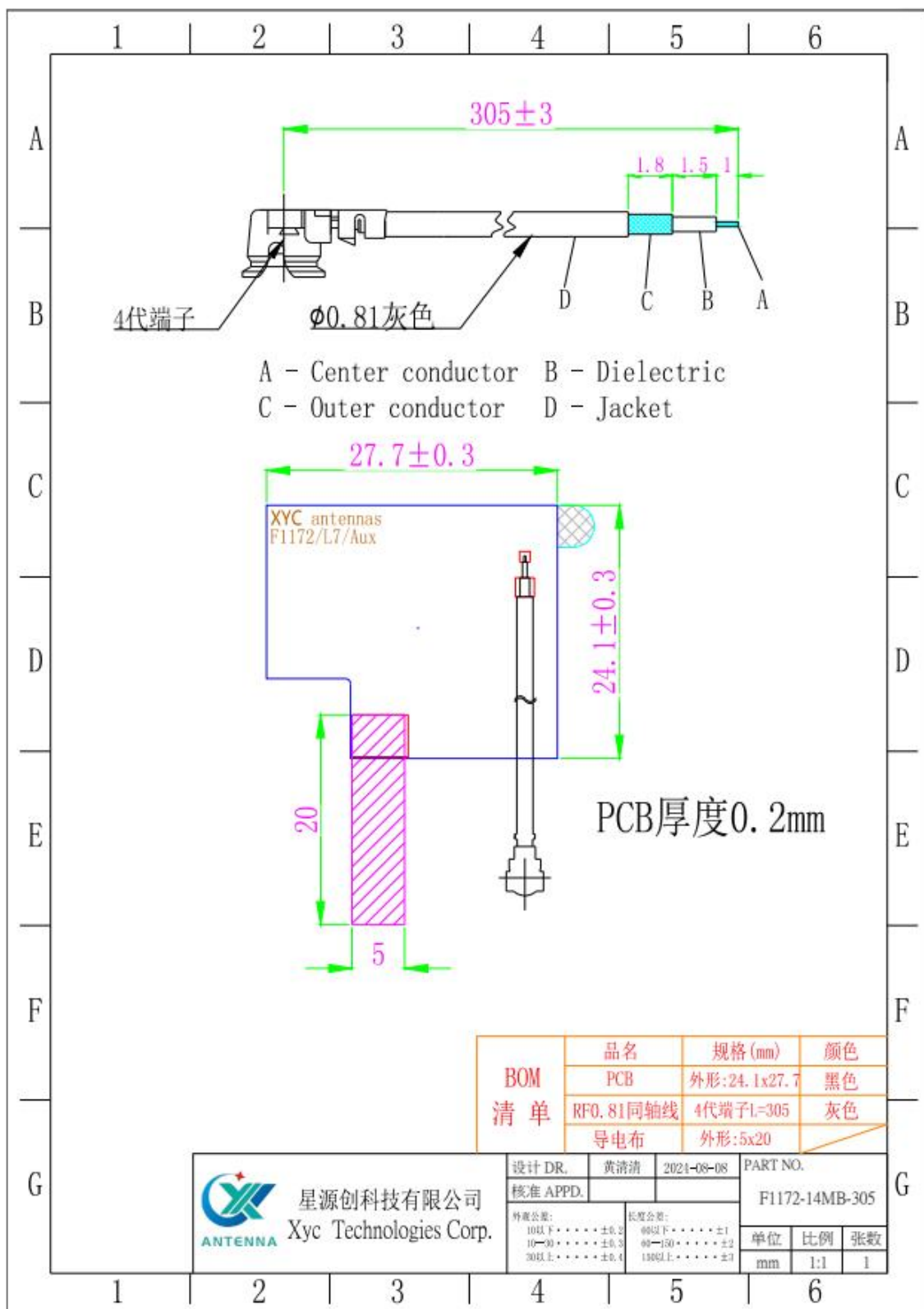
Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng\_Vis@126.com



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

## Antenna Assembly



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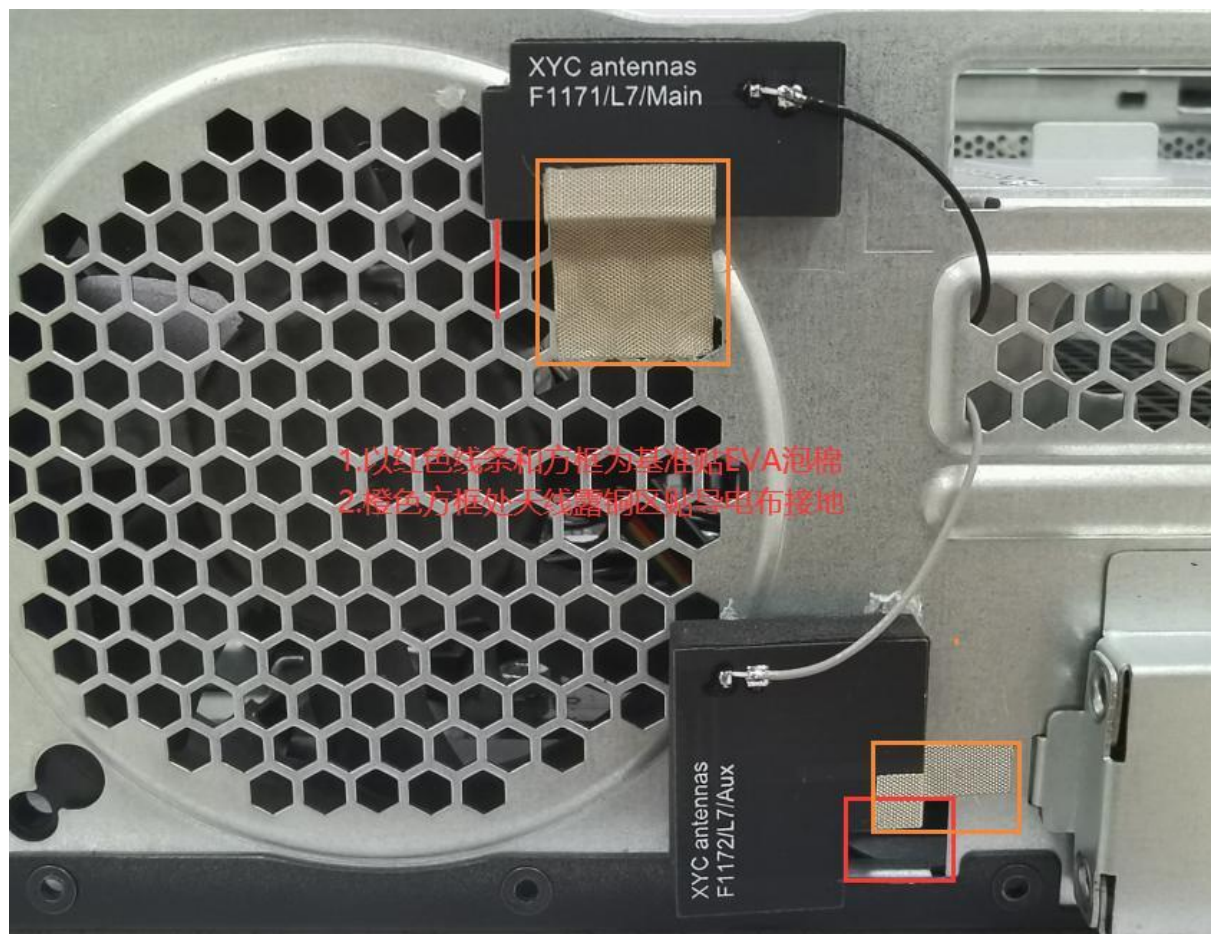
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## Notes



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## Inspection Standard

|              |      |              |        |
|--------------|------|--------------|--------|
| 深圳市星源创科技有限公司 | 文件编码 | XYC-WI-PZ-02 | 页号     |
|              | 文件版本 | A0           | 1 of 1 |
| 文件名称         | 抽样计划 |              |        |

### 抽样水平对照表

| 特殊检查水平 |     |     |     | 一般检查水平 |    |     | 批量范围            | 样本字码 | 抽样数  | 0.65 |    | 1.0 |    | 1.5 |    | 2.5 |    | 4.0 |    | 6.0 |    |
|--------|-----|-----|-----|--------|----|-----|-----------------|------|------|------|----|-----|----|-----|----|-----|----|-----|----|-----|----|
| S-1    | S-2 | S-3 | S-4 | I      | II | III |                 |      |      | AC   | RE | AC  | RE | AC  | RE | AC  | RE | AC  | RE | AC  | RE |
| A      | A   | A   | A   | A      | A  | B   | 2---8           | A    | 2    | 0    | 1  | 0   | 1  | 0   | 1  | 0   | 1  | 0   | 1  | 0   | 1  |
| A      | A   | A   | A   | A      | B  | C   | 9---15          | B    | 3    | 0    | 1  | 0   | 1  | 0   | 1  | 0   | 1  | 0   | 1  | 0   | 1  |
| A      | A   | B   | B   | B      | C  | D   | 16---25         | C    | 5    | 0    | 1  | 0   | 1  | 0   | 1  | 0   | 1  | 0   | 1  | 1   | 2  |
| A      | B   | B   | C   | C      | D  | E   | 26---50         | D    | 8    | 0    | 1  | 0   | 1  | 0   | 1  | 0   | 1  | 1   | 2  | 1   | 2  |
| B      | B   | C   | C   | C      | E  | F   | 51---90         | E    | 13   | 0    | 1  | 0   | 1  | 0   | 1  | 1   | 2  | 1   | 2  | 2   | 3  |
| B      | B   | C   | D   | D      | F  | G   | 91---150        | F    | 20   | 0    | 1  | 0   | 1  | 1   | 2  | 1   | 2  | 2   | 3  | 3   | 4  |
| B      | C   | D   | E   | E      | G  | H   | 151---280       | G    | 32   | 0    | 1  | 1   | 2  | 1   | 2  | 2   | 3  | 3   | 4  | 5   | 6  |
| B      | C   | D   | E   | F      | H  | J   | 281---500       | H    | 50   | 1    | 2  | 1   | 2  | 2   | 3  | 3   | 4  | 5   | 6  | 7   | 8  |
| C      | C   | E   | F   | G      | J  | K   | 501---1200      | J    | 80   | 1    | 2  | 2   | 3  | 3   | 4  | 5   | 6  | 7   | 8  | 10  | 11 |
| C      | D   | E   | G   | H      | K  | L   | 1201---3200     | K    | 125  | 2    | 3  | 3   | 4  | 5   | 6  | 7   | 8  | 10  | 11 | 14  | 15 |
| C      | D   | F   | G   | J      | L  | M   | 3201---10000    | L    | 200  | 3    | 4  | 5   | 6  | 7   | 8  | 10  | 11 | 14  | 15 | 21  | 22 |
| C      | D   | F   | H   | K      | M  | N   | 10001---35000   | M    | 315  | 5    | 6  | 7   | 8  | 10  | 11 | 14  | 15 | 21  | 22 | 21  | 22 |
| D      | E   | G   | J   | L      | N  | P   | 35001---150000  | N    | 500  | 7    | 8  | 10  | 11 | 14  | 15 | 21  | 22 | 21  | 22 | 21  | 22 |
| D      | E   | G   | J   | M      | P  | Q   | 150001---500000 | P    | 800  | 10   | 11 | 14  | 15 | 21  | 22 | 21  | 22 | 21  | 22 | 21  | 22 |
| D      | E   | H   | K   | N      | Q  | R   | 500001and over  | Q    | 1250 | 14   | 15 | 21  | 22 | 21  | 22 | 21  | 22 | 21  | 22 | 21  | 22 |
|        |     |     |     |        |    |     |                 | R    | 2000 | 21   | 22 | 21  | 22 | 21  | 22 | 21  | 22 | 21  | 22 | 21  | 22 |

AC为合格项 RE为不合格项

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Sample Inspection Report



深圳市星源创科技有限公司  
样品检验报告

|        |                                                                                                      |                                  |        |                |         |      |            |    |
|--------|------------------------------------------------------------------------------------------------------|----------------------------------|--------|----------------|---------|------|------------|----|
| 客户     | 长城                                                                                                   | 品名规格                             | 副天线    | 出货数量           | 5       | 抽样数量 | 2          |    |
| 机型     | L7                                                                                                   |                                  | 料号     | F1172-14MG-305 |         | 出货日期 | 2024/08/08 |    |
| 检验标准   | <input checked="" type="checkbox"/> 正常检验 <input type="checkbox"/> 加严检验 <input type="checkbox"/> 减量检验 |                                  |        |                |         |      |            |    |
| 抽样方式   | MIL-STD-105D (II) 单次抽样      接受限 AQL:CR: 0      Maj: 0.4      Min: 1.5                                |                                  |        |                |         |      |            |    |
| 质量允收水平 |                                                                                                      |                                  | CR Acc | 0              | Maj ACC | 0    | Min ACC    | 0  |
|        |                                                                                                      |                                  | CR REJ | 1              | Maj REJ | 1    | Min REJ    | 1  |
| 项目     | 检验内容                                                                                                 | 检验要求                             | 检验方法   | 检验结果           |         |      |            | 判定 |
|        |                                                                                                      |                                  |        | 1              | 2       | 3    | 4          |    |
| 尺寸检验   | 线总长                                                                                                  | 305±3                            | 直尺     | 305            | 305     |      |            | 合格 |
|        | PCB外形                                                                                                | 24.1±0.3                         | 卡尺     | 24.1           | 24.1    |      |            | 合格 |
|        | PCB外形                                                                                                | 27.7±0.3                         | 卡尺     | 27.6           | 27.6    |      |            | 合格 |
|        |                                                                                                      |                                  |        |                |         |      |            |    |
| 项目     | 检验内容                                                                                                 | 检验要求                             | 检验方法   | 缺陷描述           | C R     | Maj  | Min        | 判定 |
| 外观检验   | 线外皮                                                                                                  | 外被有无刮伤现象                         | 目视     | 无异常            | 0       | 0    | 0          | 合格 |
|        | 焊盘加锡                                                                                                 | 无氧化、锡尖等现象                        | 目视     | 无异常            | 0       | 0    | 0          | 合格 |
|        | IPEX                                                                                                 | 无缺料，烈痕，色差，缩水，烫伤，无氧化、变色、变形脱线等不良现象 | 目视     | 无异常            | 0       | 0    | 0          | 合格 |
|        |                                                                                                      |                                  |        |                |         |      |            |    |
| 电气特性   |                                                                                                      |                                  |        |                |         |      |            |    |
|        |                                                                                                      |                                  |        |                |         |      |            |    |
| 其它     |                                                                                                      |                                  |        |                |         |      |            |    |
|        |                                                                                                      |                                  |        |                |         |      |            |    |
| 最终判定   | <input checked="" type="checkbox"/> OK <input type="checkbox"/> NG                                   |                                  |        |                |         |      |            |    |

表格编号: XYC-WF-PZ-001

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胶纸剥离强度测试

Adhesive Paper Peel Strength Test

机种:

|      |                          |      |             |
|------|--------------------------|------|-------------|
| 实验题目 | 测试胶纸的黏贴力                 |      |             |
| 实验工具 | 试验胶纸，直径5M的橡胶棒，宽度1CM的塑料片。 |      |             |
| 实验日期 | 2024. 08. 08             | 胶纸型号 | 3M9471      |
| 仪器   | 台式拉力测试机                  | 范围   | 基材、胶纸的剥离度测试 |

|         |                                                                                        |       |       |       |       |       |
|---------|----------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| 操作方法    | 将1CM宽的胶纸黏贴在基材上，然后贴合在1CM的塑料片上，用胶棒用5KG的力量压合塑料片，固定在下模具，将基材上固定在上磨具，然后用15CM/min的速度向上拉，记录数值。 |       |       |       |       |       |
| 参考      | 3M9471的剥离度参考数值为大于大于1kg/100MM                                                           |       |       |       |       |       |
| 实验数据如下： |                                                                                        |       |       |       |       |       |
| 样品      | 最大力                                                                                    | 1     | 2     | 3     | 4     | 5     |
| 测试数据    |                                                                                        | 1. 61 | 1. 72 | 1. 35 | 1. 06 | 1. 54 |

数据统计结果如下:

|     |       |      |       |
|-----|-------|------|-------|
| 最大值 | 1. 72 | 最小值  | 1. 06 |
| 平均值 | 1. 46 | 采样结果 | 合格    |



I-PEX端子拉力测试  
I-pex Terminal Tension Test

机种:

|      |              |      |                     |
|------|--------------|------|---------------------|
| 实验题目 | I-PEX端子拉力测试  |      |                     |
| 实验工具 | 拉力计          |      |                     |
| 实验日期 | 2024. 08. 08 | 端子型号 | 四代I-PEX座子           |
| 仪器   | 拉力计          | 范围   | 端子与同轴线的拉力不能小于0. 8KG |

|         |                                             |        |        |         |        |        |
|---------|---------------------------------------------|--------|--------|---------|--------|--------|
| 操作方法    | 将I-PEX端子固定在拉力夹具上，然后用小于1.0KG的力去拉拔端子，记录拉力计数值。 |        |        |         |        |        |
| 参考      | 参考数值为小于0.8KG                                |        |        |         |        |        |
| 实验数据如下： |                                             |        |        |         |        |        |
| 样品      | 最大力                                         | 1      | 2      | 3       | 4      | 5      |
| 测试数据    |                                             | 0.81KG | 0.82KG | 0.805KG | 0.80KG | 0.83KG |

数据统计结果如下:

|     |         |      |        |
|-----|---------|------|--------|
| 最大值 | 0. 83KG | 最小值  | 0. 8KG |
| 平均值 | 0. 81   | 采样结果 | 合格     |



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

## Supplier Environmental Statement

### 供应商环保声明

供应商名称： 深圳市星源创科技有限公司

供应商地址： 深圳市宝安区福海街道塘尾社区塘尾股份商务大厦1506

对象名称： 交付给长城之所有物品

本公司星源创(简称)保证所有提供给长城的物品(如原料，组件， 半成品，成品以及包装材料)均符合适用于长城产品和活动的环保法律和法规，包括但不限于以下要求(相关指令以最新版本为准):

欧盟关于限制在电子电器设备中使用某些有害成分的指令(2011/65/EU)

欧盟关于电池和蓄电池中含有的特定有害物质的指令(2006/66/EC)

欧盟关于包装材料和包装材料废弃物指令(94/62/EC),

电子信息产品污染控制管理办法(“中国 RoHS”),

REACE 法规。

如因深圳市星源创科技有限公司违反本协议而导致长城因此遭受任何损失的。深圳市星源创科技有限公司应赔偿长城全部损失并接受长城所采取的全部应对措施。

FPC有效日期截止到2024年10月

同轴线有效日期截止到2024年10月

端子有效日期截止到2024年10月份

公司负责人 邓江坚

职务： 总经理

签名： 邓江坚

生效日期： 2023-11-01

电话： 0755-82103639

传真： 0755-82103639

地址： 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

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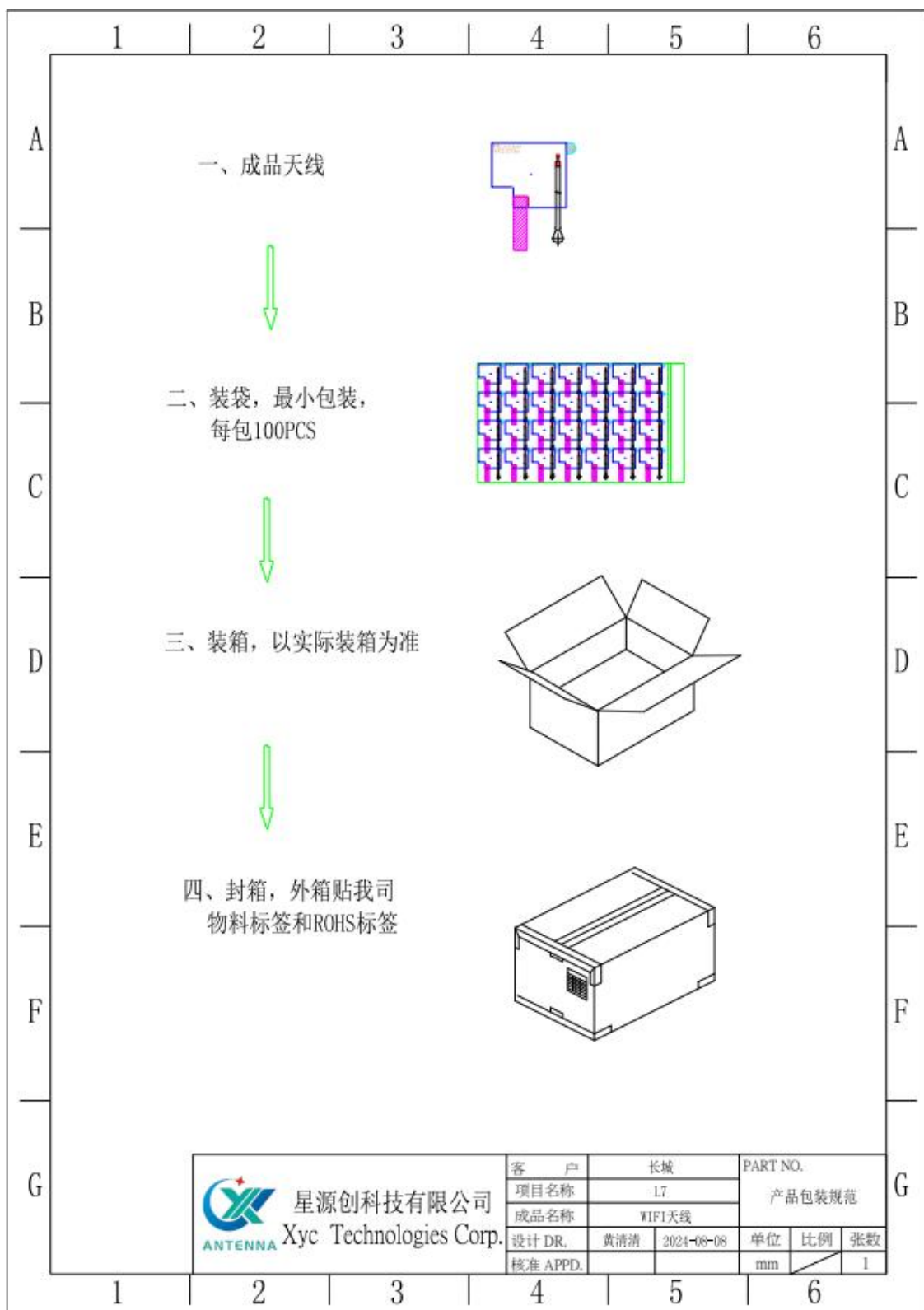
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## Packing Specification



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