

规格承认书  
Specification sheet

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| 客 户                 | 易检车服                                                                   |
| Customer name       |                                                                        |
| 客户料号                |                                                                        |
| Customer P/N        |                                                                        |
| 品 名                 | FPC 黑色油墨背面 0.1MM 补强，白色印字：WIFI-1，<br>L*W*T=19*14.7*0.35MM，1.13 黑色线接一代端子 |
| Article Description | L=95MM，ROHS                                                            |
| 同讯料號                |                                                                        |
| TOXU Part No.       | KC. IA. 00634                                                          |
| 承认书号码               | A20250627-001                                                          |
| Approval sheet No.  |                                                                        |
| 日 期                 | 2025. 06. 27                                                           |
| Date                |                                                                        |

| 承认填写栏 Signature confirmation       |              |                                   |  |
|------------------------------------|--------------|-----------------------------------|--|
| 供应商确认（供方填写栏）<br>Supplier signature |              | 客户承认（需方填写栏）<br>Customer signature |  |
| 李德文                                |              |                                   |  |
| 盖章 seal:                           |              | 盖章 seal:                          |  |
| 日期 date                            | 2025. 06. 27 | 日期 date                           |  |
| 备注 Remarks:                        |              |                                   |  |

## 目 录 catalogue

|                                                    |                   |
|----------------------------------------------------|-------------------|
| 1.封面 (Cover Page)                                  | -----page(1 to 1) |
| 2.目录(Content)                                      | -----page(2 to 2) |
| 3. 变更履历(ChangeHistory Sheet)                       | -----page(3 to 3) |
| 4. 产品相片(Product photos)                            | -----page(3 to 3) |
| 5. 机械及电气性能(Mechanics and Electrical Specification) | -----page(4 to 4) |
| 6. 性能报告(Performance report)                        | -----page(5 to 6) |
| 7. 成品图面(Customer Drawing)                          | -----page(7 to 7) |
| 8.包装规格(Packing Spec)                               | -----page(8 to 8) |

3. 承认书变更履历

| 版本 (REV) | 发起人 (Originator) | 日期 (Date)  | 变更描述(Change Description) |
|----------|------------------|------------|--------------------------|
| A/1      | Devin            | 2025.06.27 | First Version            |
|          |                  |            |                          |

4. 产品相片(Product photos):

please see the internal photos

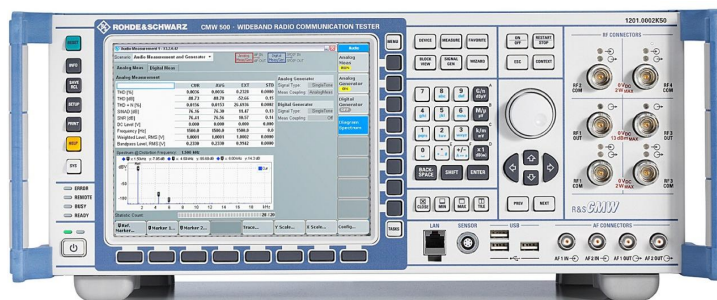
5. 机械及电气性能(Mechanics and Electrical Specification)

|                                       |                        |                             |                       |
|---------------------------------------|------------------------|-----------------------------|-----------------------|
| 产品名称 (Name)                           | 939-wfif-1             | 产品型号 (Model Type)           | KC. IA. 00634         |
| 电 性 能 指 标 (Electrical Specifications) |                        |                             |                       |
| 频率范围 (Frenquency Range)               | 2400-2500/5150-5850MHZ | 极化方式 (Polarization)         | 线极化linear             |
| 输入阻抗 (Impedance)                      | 50 Ω                   | 辐射方向 (Radiation direction)  | 全向<br>omnidirectional |
| 驻波比 (VSWR)                            | ≤2.0                   | 功率容量 (Power)                | 10W                   |
| 增益 (Gain)                             | 3.67dBi                | 带宽 (Bandwidth)              | 100/700MHZ            |
| 机 械 指 标 (Mechanical Specifications)   |                        |                             |                       |
| 尺寸 (Dimensions)                       | 19*14.7*0.35MM         | 颜色 (colour)                 | 黑色black               |
| 连接器型号 (Connector)                     | IPEX-I                 | 引线长度 (Cable Length)         | 95MM                  |
| 材料 Radome Material                    | FPC                    | 盐雾 (Salt spray test)        | 48H                   |
| 工作温度<br>(Working Temperature)         | -40℃--+85℃             | 存放温度<br>(Limit Temperature) | -40℃--+85℃            |
| 天线类型 (Antenna type)                   | PIFA                   |                             |                       |

## 6 性能报告(Performance report)

### 6.1 测试项目及设备 Test Items and Equipment

|                                         | 测试项目 Test Items                                                   | 测试设备 Test Equipment                                                                              |
|-----------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| S Parameter                             | 1. Return loss<br>2. VSWR                                         | Network analyzar<br>(Aglient E5071C )                                                            |
| The whole machine of Passive parameters | 1. Frequency<br>2. Gain<br>3. Radiation Patten                    | 1.3D microwarve darkroom<br>(4M*3M*3M)<br>2.Network analyzer                                     |
| The whole machine of Active parameters  | 1. TRP<br>2. TIS                                                  | 1.3D microwave darkroom<br>(4M*3M*3M)<br>3. Comprehensive test instrument<br>4. (CMW500)(E7515E) |
| Instrument calibration                  | Once a year, Last calibration: 2023.11.22, Valid until:2024.11.22 |                                                                                                  |



地址：深圳市龙华区福城街道茜坑社区茜坑路 52 号

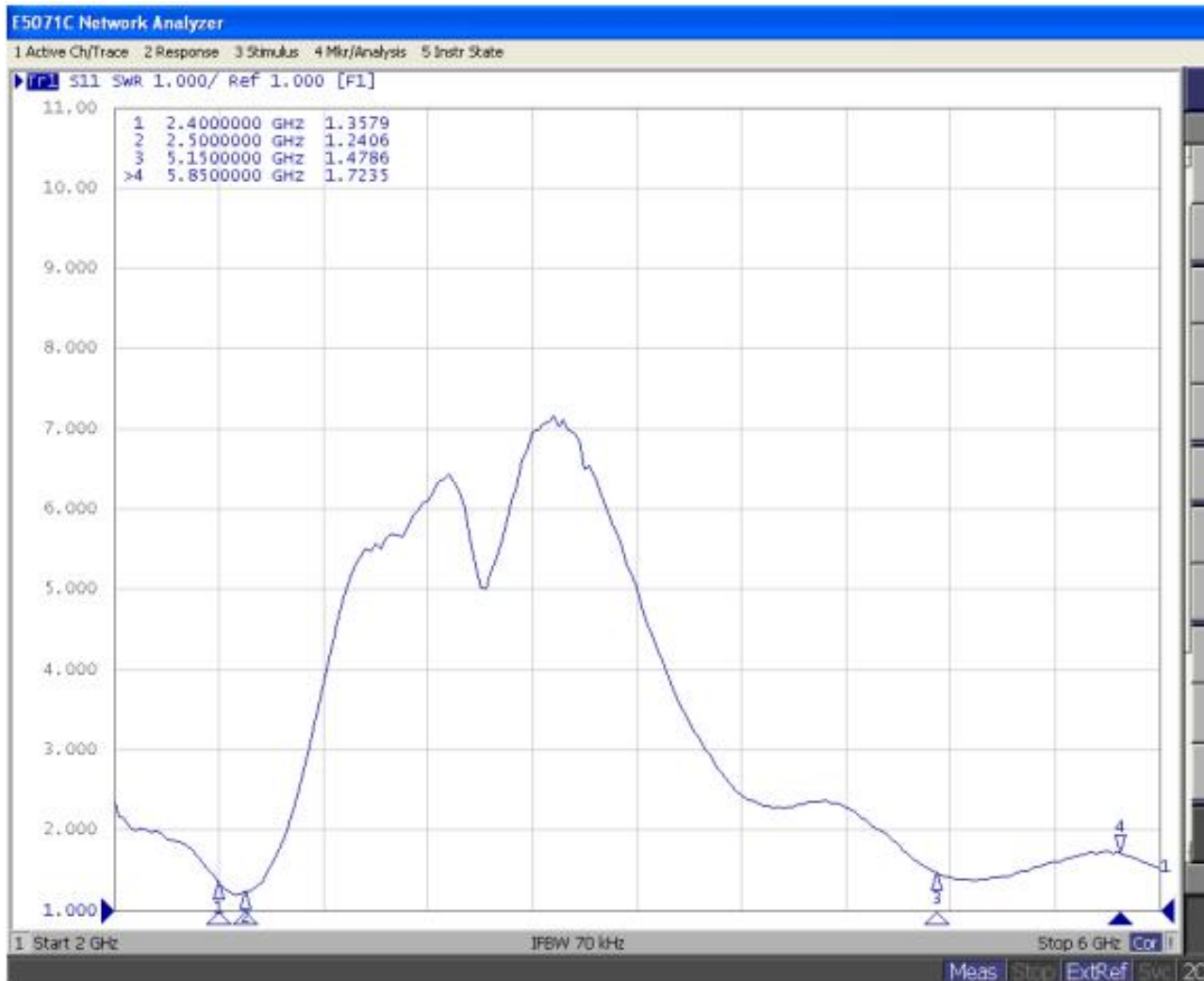
ADDRESS:5th floor, No. 52, Xikeng Road, Xikeng community, Fucheng street, Longhua District, Shenzhen

电话 (TEL) : 0755-28199597

网址 (WEB) : [www.toxutech.com](http://www.toxutech.com)

## 6.2 性能报告(Performance report)

### 6.2.1 电压驻波比（VSWR）：



地址：深圳市龙华区福城街道茜坑社区茜坑路 52 号

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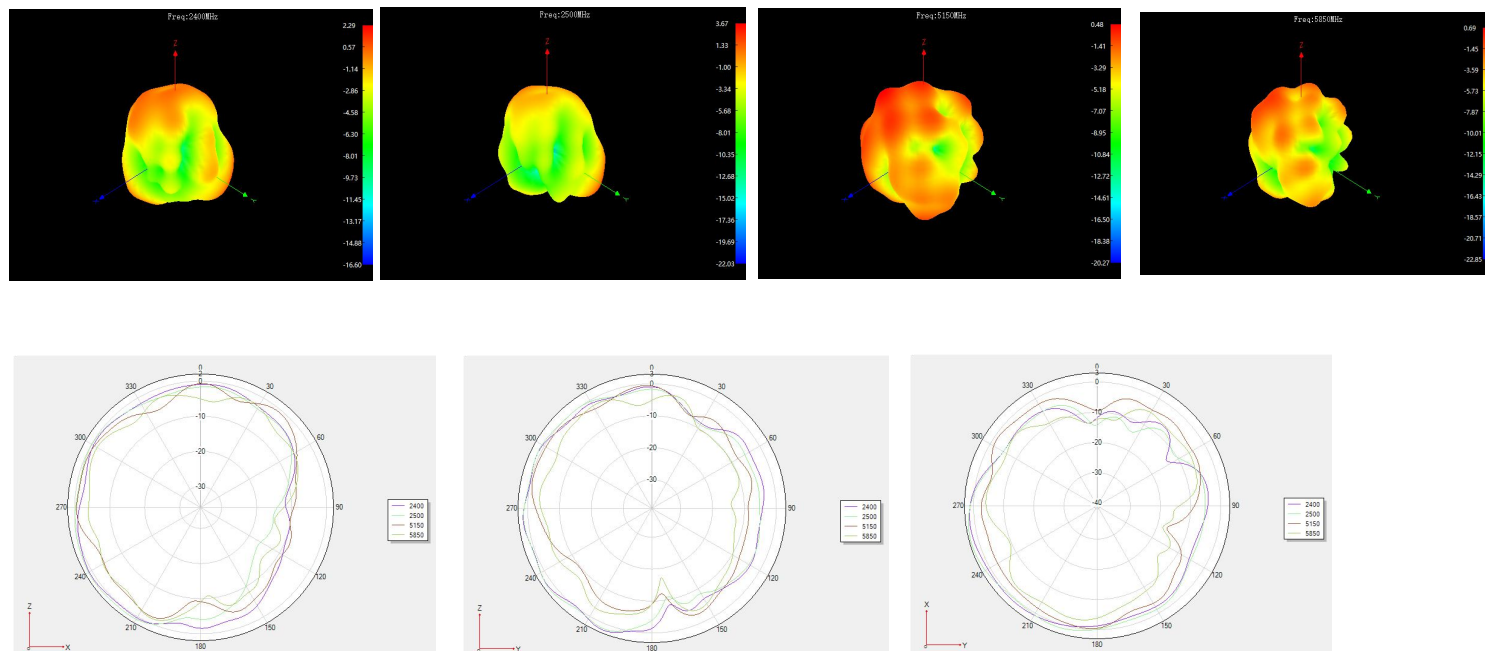
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### 6.2.2 效率@增益（Efficiency and Gain）：

| Frequency/MHz | MaxGain/dBi | Efficiency / % | Frequency/MHz | MaxGain/dBi | Efficiency / % |
|---------------|-------------|----------------|---------------|-------------|----------------|
| 2400          | 2.29        | 53.28          | 5150          | 0.48        | 46.24          |
| 2410          | 1.68        | 53.83          | 5200          | 0.51        | 48.64          |
| 2420          | 1.96        | 57.45          | 5250          | 0.84        | 49.66          |
| 2430          | 1.97        | 60.61          | 5300          | 0.81        | 51.4           |
| 2440          | 2.4         | 58.23          | 5350          | 0.83        | 54.08          |
| 2450          | 1.8         | 57.26          | 5400          | 1.42        | 49.43          |
| 2460          | 2.77        | 57.09          | 5450          | 0.68        | 51.76          |
| 2470          | 2.3         | 55.52          | 5500          | 0.7         | 49.2           |
| 2480          | 2.87        | 57.81          | 5550          | 0.98        | 50.58          |
| 2490          | 2.57        | 57.16          | 5600          | 0.84        | 48.42          |
| 2500          | 3.67        | 56.46          | 5650          | 1.18        | 47.1           |
|               |             |                | 5700          | 0.88        | 46.24          |
|               |             |                | 5750          | 0.7         | 48.85          |
|               |             |                | 5800          | 0.79        | 48.27          |
|               |             |                | 5850          | 0.69        | 49.99          |

### 6.2.3 3D@2D 辐射方向（3D & 2D Radiation Pattern）：



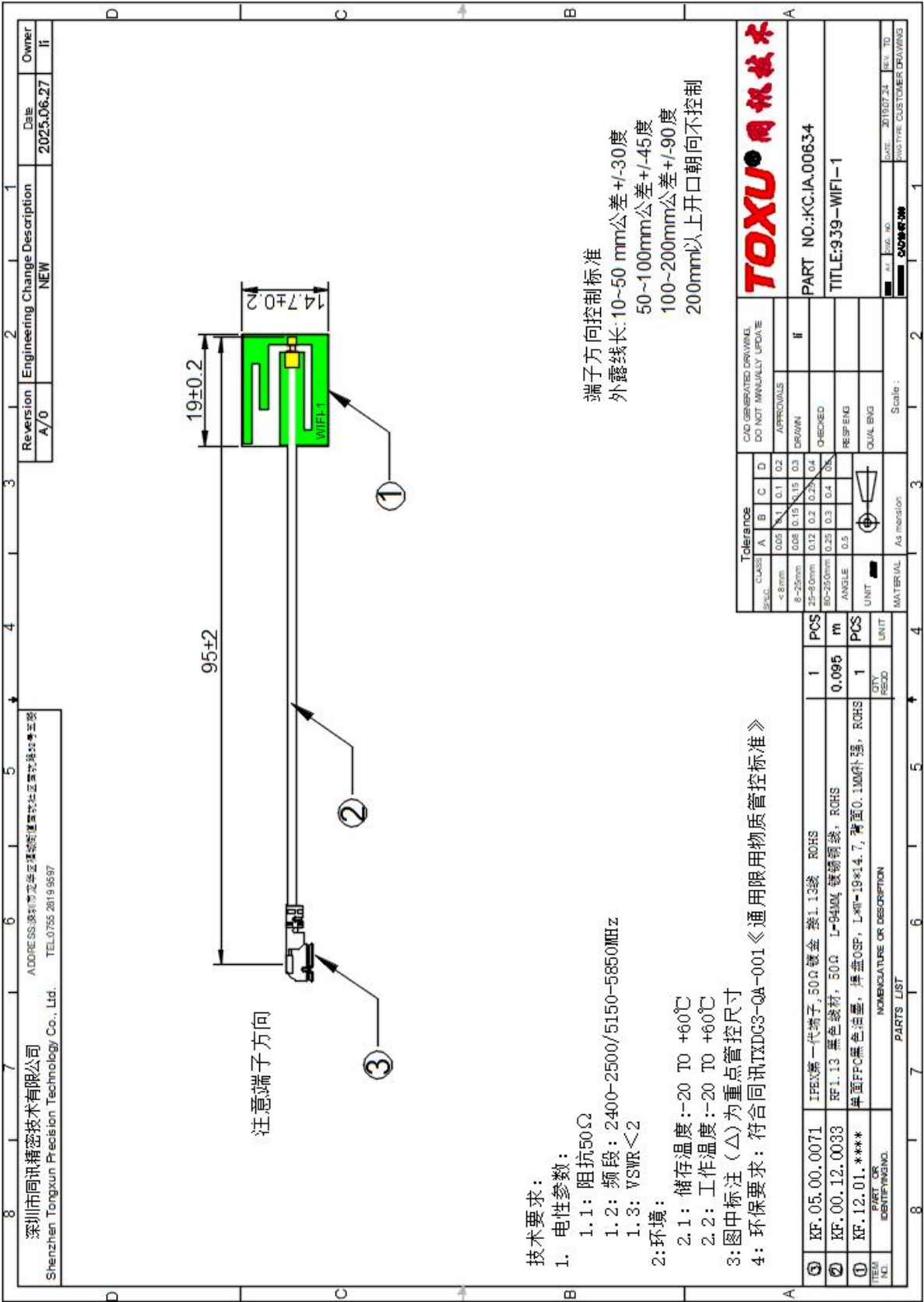
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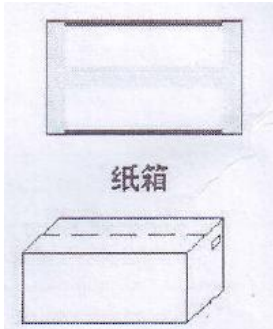
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7. 成品图 (Customer Drawing)



## 8. 包装方式 (Packaging) :

|                                               |         |                     |       |
|-----------------------------------------------|---------|---------------------|-------|
| <b>Product number:</b> XXXXX                  |         |                     |       |
| <b>Product model:</b> XXXXX                   |         |                     |       |
| <b>一、Label requirements:</b>                  |         |                     |       |
| <b>Customer</b>                               | xxx     |                     |       |
| <b>supplier</b>                               | XXXXXX  |                     |       |
| <b>Material coding</b>                        | xx      |                     |       |
| <b>Product model</b>                          | xx      |                     |       |
| <b>Number</b>                                 | XXX PCS | <b>Factory date</b> | X X X |
| <b>Remarks</b>                                |         |                     |       |
| <b>二、Boxing:</b>                              |         |                     |       |
| <b>Job description:</b>                       |         |                     |       |
| <b>1. Inner packaging:</b>                    |         |                     |       |
| XXpcs A bag                                   |         |                     |       |
| <b>2. External packaging:</b>                 |         |                     |       |
| Xx PCS ;                                      |         |                     |       |
| <b>3. Matters needing attention:</b>          |         |                     |       |
| a. Whether to add partition and pearl cotton; |         |                     |       |
| b. Label attachments, such as ROHS, etc.;     |         |                     |       |



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