

# 零件承认书

|      |                                                                               |
|------|-------------------------------------------------------------------------------|
| 客户名称 | 东莞市思行智能设备制造有限公司<br>DongGuan Ceasing Intelligent Device Manufacturing Co., LTD |
| 客户品名 | NQI-G10-BS-BT-FB-V6                                                           |
| 客户料号 | 1000058194/1000058568                                                         |
| 产品编号 | 版本: A0 环保标准:RoHS2.0 REACH EC16P                                               |

| 变更履历 | 版本 | 变更单号 | 变更原因 | 变更内容 |
|------|----|------|------|------|
|      | V6 | /    | /    | 首版发行 |
|      |    |      |      |      |
|      |    |      |      |      |

| 客户承认 | 日期 | 零件承认 | 审核 | 核准 |
|------|----|------|----|----|
|      |    |      |    |    |

## 供应商信息:

|         |                                          |
|---------|------------------------------------------|
| 公司名称:   | 深圳市国质信网络通讯有限公司                           |
| 地址:     | 深圳市龙岗区平吉大道66号康利城7栋103号                   |
| 邮编:     | 518000                                   |
| 联系电话:   | 13641435252                              |
| 联系人:    | 方方                                       |
| E-mail: | <a href="mailto:ff@nqi.cn">ff@nqi.cn</a> |

| 送样确认 | 日期 | 制订 | 审核 | 核准 |
|------|----|----|----|----|
|      |    |    |    |    |

盖 章





思行

# 样品承认书

## Parts Approval Sheet

生产供应商: 国质信

Supplier

物料名称: 耳机蓝牙天线

Parts Name

适用项目: G10

Type/Spec

NQI 料号: NQI-G10-BS-BT-FB-V6

Parts No

品 牌: NQI

Brand

客户料号: \_\_\_\_\_

Quantity

送样日期: 2023/04/27

Send out Date

文件编号: NQI-RD-SPEC-20230421

Document No

承认日期: \_\_\_\_\_

Approve Date

样品版本: V6

Version

| Supplier    |             | Customer         |              |
|-------------|-------------|------------------|--------------|
| Approved By | Prepared By | Engineering Dept | Quality Dept |
|             |             |                  |              |

联系方式 (Contact) : 深圳市龙岗区平吉大道 66 号康利城 7 栋 103 号

Email: [nqi@nqi.com.cn](mailto:nqi@nqi.com.cn)

Tel: +86-0755-28500656

Fax: +86-0755-28700656



## 承认书履历表 (Resume)

| 日期<br>(Date) | 天线版本<br>(Versins) | 变更原因<br>(Reasons for change) | 变更内容<br>(Content of change ) | 备注<br>(Note) |
|--------------|-------------------|------------------------------|------------------------------|--------------|
| 2023. 04. 27 | V6                |                              |                              | 首版发行         |
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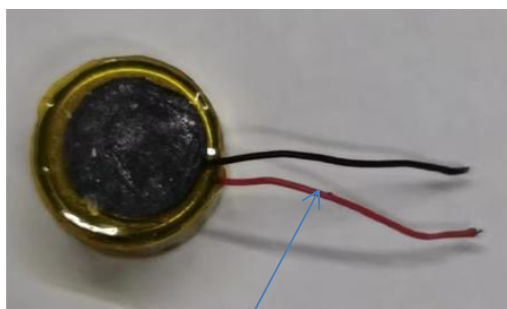
一. 样品图片. 电器参数说明及装配方式 (Sample picture and description) :



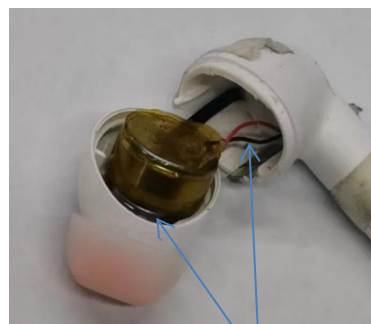
| 电气参数说明 (Electrical Specifications)    |                |
|---------------------------------------|----------------|
| 频率范围 (Frequency range)                | (2400-2500)MHz |
| 特性阻抗 (impedance)                      | 50 ohm         |
| 电压驻波比 (VSWR)                          | ≤2             |
| 峰值增益 (Gain)                           | 0.67dBi        |
| 极化形式 (Polarization)                   | 水平             |
| 辐射方向 (Radiation direction)            | 全向             |
| 连接方式说明 (Connection Mode Description)  |                |
| 连接器 (connector)                       | /              |
| 线缆规格 (Cable specifications)           | /              |
| 工作/储存温度 (Working/Storage temperature) |                |
| 工作温度 (Working temperature)            | -30℃~65℃       |
| 储存温度 (Storage temperature)            | -30℃~75℃       |

## 装配方式

### 左右耳相同处理



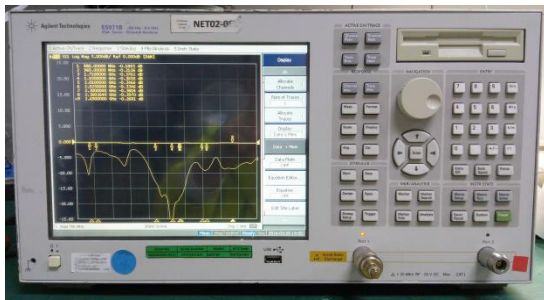
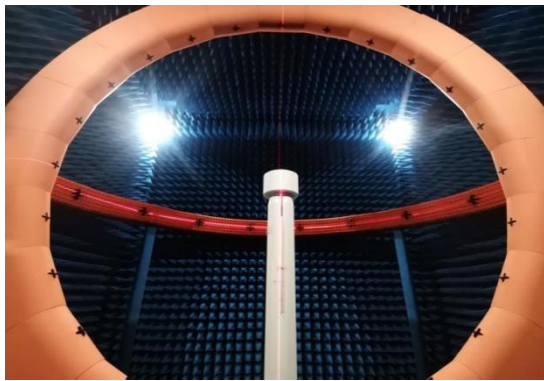
电池红黑线各总长 20mm



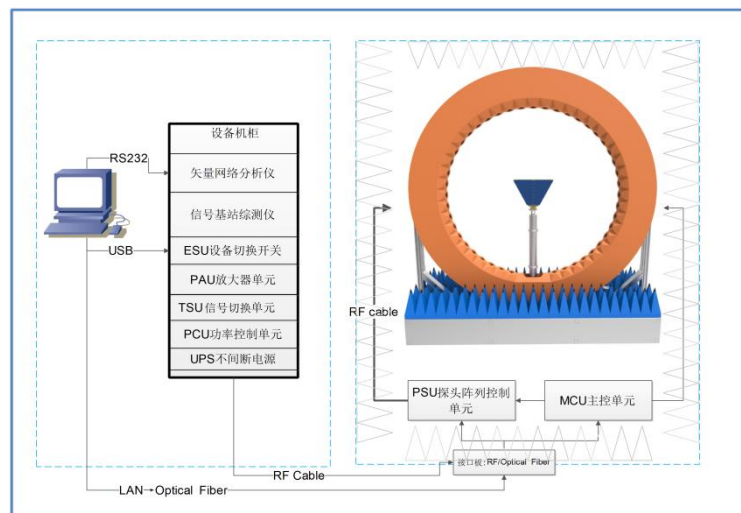
电池此面贴背胶然后打白胶固定在前腔排线上，电池线无需绞线，极耳处对着穿线口方向放置。

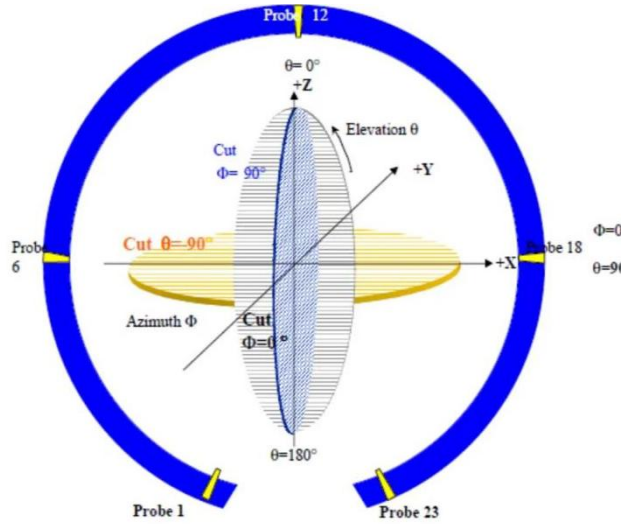
## 二. 测试设备及项目 (Test equipment and items) :

| 类别 (Class)                 | 测试项目 (Test item)                                                   | 设备 (Equipment)                                                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. S parameter             | 1. 回波损耗(RL)<br>2. 驻波比 (VSWR)<br>3. 史密斯原图(Smith chart)              | 网分 (VNA) : Agilent E5071B<br><br>R&S ZVB8<br><br>Protek A333                                                                                                                                                                  |
| 2. 耦合测试 (Coupling testing) | 1. 发射功率 (MAX Power)<br>2. 接收灵敏度 (MIN Sens)                         | 1.2G/3G Tester: Agilent 8960<br>2.The coupling box: TESCO TC-5060A<br>3. 3D Chamber: ETS 3D Chamber (5x3x3)                                                                                                                   |
| 3. 3D 无源测试 (Passive Test)  | 1. 效率 (Effeciency)<br>2. 增益 (Gain)<br>3. 辐射方向图 (Radiation pattern) | 1. 3D Chamber: TEM24 3D Chamber(5x5x5)<br>ETS 3D Chamber (5x3x3)<br>2. 网分 (VNA) : Agilent E5071B<br>R&S ZVB8                                                                                                                  |
| 4.3D 有源测试 (Active Test)    | 1. 3D 功率 (TRP)<br>2. 3D 灵敏度 (TIS)<br>3. 吞吐率 (Throughput rate)      | 1. 3D Chamber: TEM24 3D Chamber(5x5x5)<br>ETS 3D Chamber (5x3x3)<br>2.2G/3G Tester: Agilent 8960<br>3.4G Tester: MT8820C/CMW500<br>4.WIFI/BT/NB-iot Tester: CMW500<br>5. 5G Tester: SP9500-CTS<br>6.Head: HEAD-P10 (FACE-P10) |

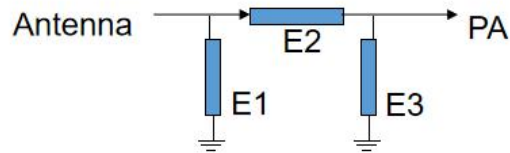


### 三. 暗室连接及坐标 (Chamber connection and coordinates) :





#### 四. 天线匹配网络 (Antenna matching network) :



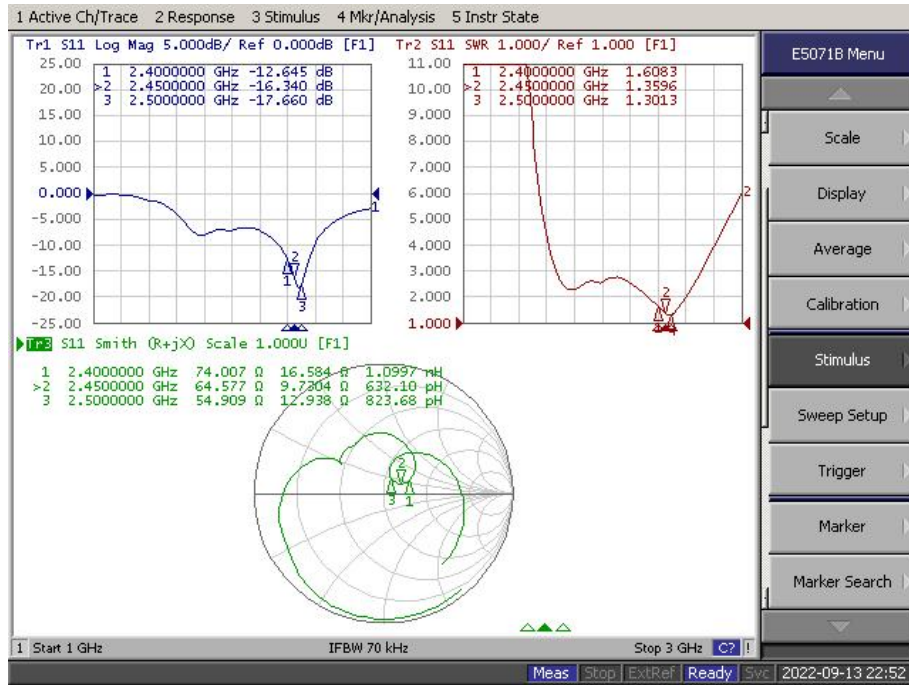
| 位号 | 参数 |
|----|----|
| E1 | NC |
| E2 | 0Ω |
| E3 | NC |



## 五. 天线电性能测试数据 (Antenna electrical performance test data) :

### 5. 1. 天线无源参数 (Antenna passive parameters)

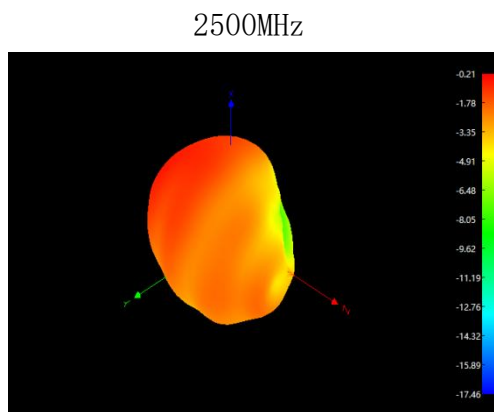
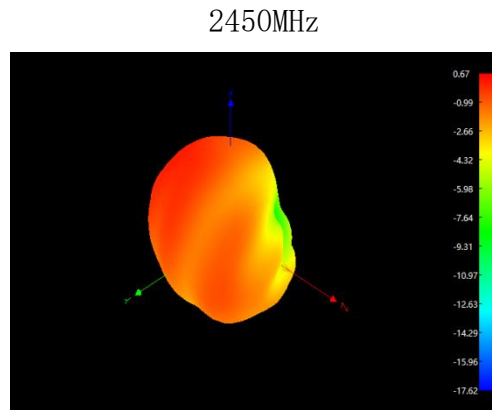
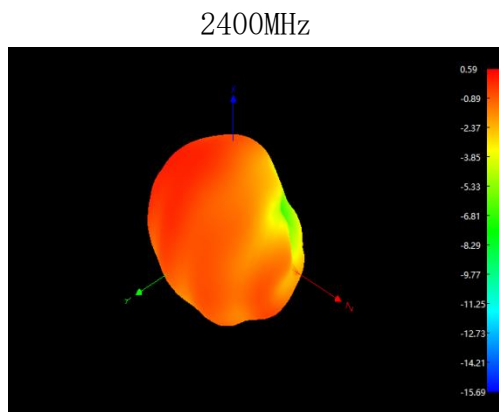
#### 5.1.1. 天线回波损耗/驻波比/史密斯圆图 (RL/VSWR/Smith Chart)



#### 5. 1. 2. 天线效率/增益 (Effeciency/Gain)

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 2400       | 42.36    | 0.59       |
| 2450       | 42.07    | 0.67       |
| 2500       | 35.27    | -0.21      |

5.1.3 自由空间辐射方向图及苹果场强图



## 5.2 天线有源参数 (Antenna Active parameter)

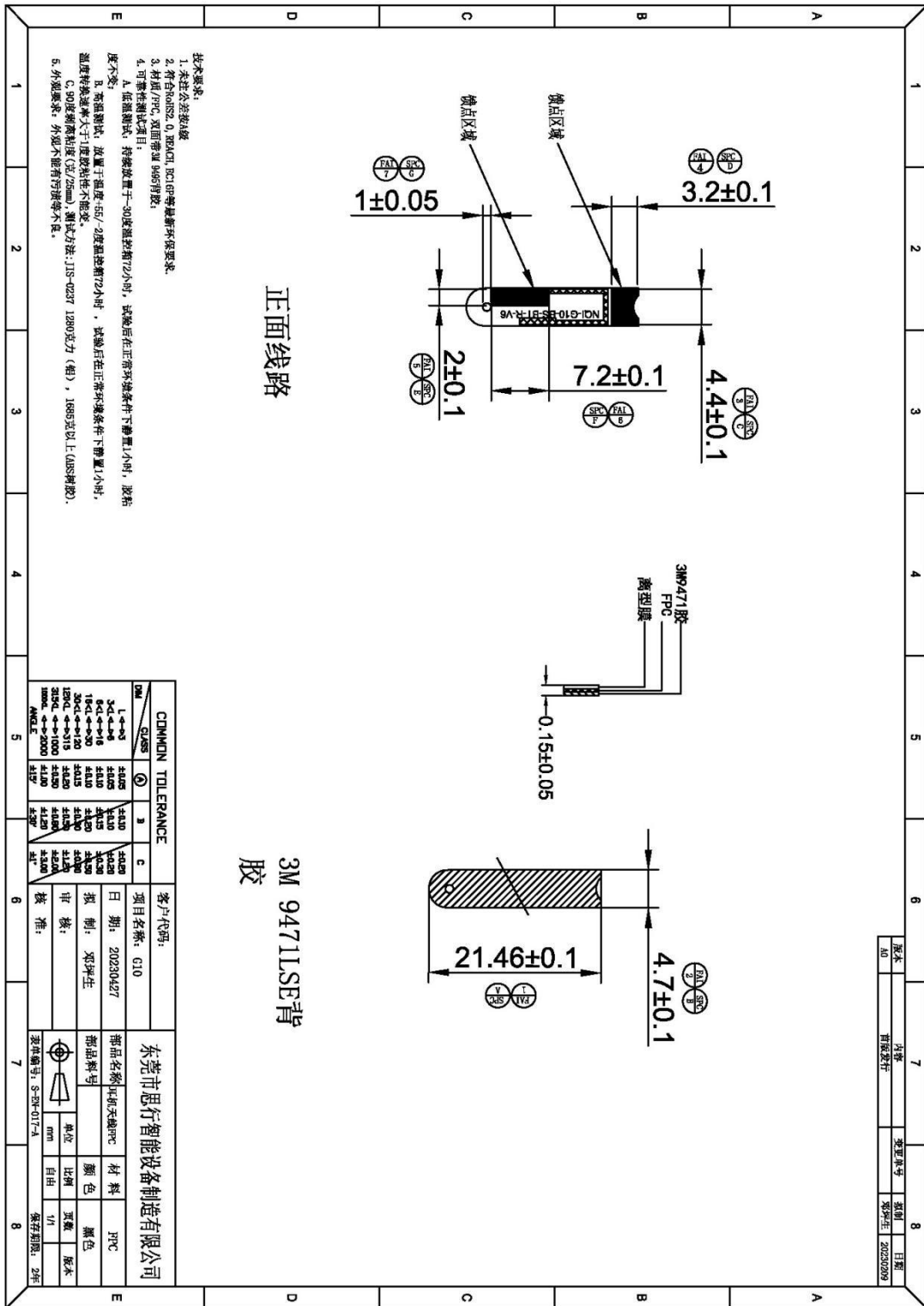
### 5.2.1 TRP/TIS

| NQI ANT TRP&TIS parameter Summary of G10 1# |   |           |                   |        |        |
|---------------------------------------------|---|-----------|-------------------|--------|--------|
| Free space<br>(自由状态)                        |   | Test      | Bluetooth TRP&TIS |        |        |
|                                             |   | Result    | 0                 | 39     | 78     |
|                                             | L | TRP (dBm) | 7.2               | 6.82   | 6.64   |
|                                             |   | TIS (dBm) | -92.05            | -91.21 | -91.04 |
|                                             | R | TRP (dBm) | 7.6               | 7.62   | 7.58   |
|                                             |   | TIS (dBm) | -92.35            | -91.36 | -91.65 |
| Head and ear<br>(二代人头耳)                     |   | Test      | Bluetooth TRP&TIS |        |        |
|                                             |   | Result    | 0                 | 39     | 78     |
|                                             | L | TRP (dBm) | -4.17             | -4.5   | -5.62  |
|                                             |   | TIS (dBm) | -81.59            | -80.56 | -81.24 |
|                                             | R | TRP (dBm) | -3.43             | -2.86  | -2.96  |
|                                             |   | TIS (dBm) | -81.85            | -81.89 | -81.75 |



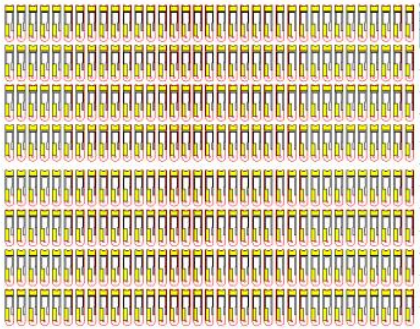
| NQI ANT TRP&TIS parameter Summary of G10 2# |   |           |                   |        |        |
|---------------------------------------------|---|-----------|-------------------|--------|--------|
| Free space<br>(自由状态)                        |   | Test      | Bluetooth TRP&TIS |        |        |
|                                             |   | Result    | 0                 | 39     | 78     |
|                                             | L | TRP (dBm) | 6.15              | 5.3    | 4.1    |
|                                             |   | TIS (dBm) | -90.54            | -90.01 | -89.63 |
|                                             | R | TRP (dBm) | 6.66              | 6.37   | 6.02   |
|                                             |   | TIS (dBm) | -91.54            | -90.3  | -90.88 |
| Head and ear<br>(二代人头耳)                     |   | Test      | Bluetooth TRP&TIS |        |        |
|                                             |   | Result    | 0                 | 39     | 78     |
|                                             | L | TRP (dBm) | -4.23             | -4.68  | -5.39  |
|                                             |   | TIS (dBm) | -80.75            | -80.99 | -80.03 |
|                                             | R | TRP (dBm) | -3.56             | -4.23  | -4.69  |
|                                             |   | TIS (dBm) | -80.34            | -80.65 | -80.02 |



六. 天线结构图纸 (Antenna structure drawing) :



七. 天线包装图纸 (Antenna package drawing) :

|  深圳市国质信息网络通讯有限公司<br>ShenZhen NQI network communication ltd |                   | PET膜包装承认书                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|------|----|-------------|-----------|------|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 工段名称: <b>FPC检验包装</b>                                                                                                                        | 产品编号: <b>G10</b>  | 2023/4/27                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 版本: <b>A</b> |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                             | 产品名称: <b>BT天线</b> | 文件编号: <b>/</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 页数: 第1页 共1页  |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>图一: FPC检验膜包装出货样板;</b><br>                               |                   | <b>使用物料:</b><br><table border="1"> <thead> <tr> <th>NO</th> <th>PART NUMBER</th> <th>PART NAME</th> <th>Q'TY</th> <th>VENDER</th> <th>NOTE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> |              |        |      | NO | PART NUMBER | PART NAME | Q'TY | VENDER | NOTE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NO                                                                                                                                          | PART NUMBER       | PART NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Q'TY         | VENDER | NOTE |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>图二: 排版方式</b><br>                                       |                   | <b>使用工具、设备:</b><br>手指套<br><b>操作步骤:</b><br>1: 检查产品外观是否平整, 有无脏污、划痕、漏铜、印刷不良等不良现象。<br>2: 重点尺寸检查 (见工程图)<br>3: 产品按规律整齐排放在PE袋里; 若发现不良需撤去不良品;<br>4: 呈产出货需装箱, 贴上下箱标签; 要求标签位置一致。                                                                                                                                                                                                                                                                                                           |              |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                             |                   | <b>注意事项:</b><br>1: 外观检测时严禁有折痕、断裂、漏铜、镀金不良、严重尺寸问题;<br>2: 每颗产品对应的料号、数量应标示明确;                                                                                                                                                                                                                                                                                                                                                                                                        |              |        |      |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 拟制:                                                                                                                                         | 张芳芳               | 审核:                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 周鹏           | 批准:    | 牛兴刚  |    |             |           |      |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



八. 重点尺寸检验报告 (Key dimension inspection report) :

| 尺寸检验报告                                                                                                      |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------|-------|-------|--------------------------------|-------|-------|------|----|
| 客户                                                                                                          | 信息                                                                                                                                                                            |           | 项目                                                                 |       |       | G10                            |       |       |      |    |
| 材质                                                                                                          | FPC                                                                                                                                                                           |           | <input checked="" type="checkbox"/> 环保材料                           |       |       | <input type="checkbox"/> 非环保材料 |       |       |      |    |
| 外观检查项目                                                                                                      | <input type="checkbox"/> 油漆 <input type="checkbox"/> 断线 <input type="checkbox"/> 短路 <input type="checkbox"/> 划伤 <input type="checkbox"/> 脏污 <input type="checkbox"/> 开裂 (请加工) |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             | 不良数: 0   轻微   严重 <input type="checkbox"/> 致命   外观 <input type="checkbox"/> 定结果:   合格 <input checked="" type="checkbox"/> 不合格 <input type="checkbox"/>                         |           |                                                                    |       |       |                                |       |       |      |    |
| 功能或尺寸检查记录                                                                                                   |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
| NO                                                                                                          | 检验标准                                                                                                                                                                          |           | SPC位置                                                              | 检查结果  |       |                                |       |       | 检测仪器 | 判定 |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    | 1     | 2     | 3                              | 4     | 5     |      |    |
| FPC                                                                                                         | FPC长mm                                                                                                                                                                        | 21.46±0.1 | A                                                                  | 21.46 | 21.44 | 21.46                          | 21.46 | 21.45 | DN   | OK |
|                                                                                                             | FPC宽mm                                                                                                                                                                        | 4.7±0.1   | B                                                                  | 4.72  | 4.7   | 4.72                           | 4.7   | 4.68  | DN   | OK |
|                                                                                                             | 宽mm                                                                                                                                                                           | 4.4±0.1   | C                                                                  | 4.39  | 4.41  | 4.38                           | 4.4   | 4.4   | DN   | OK |
|                                                                                                             | 长mm                                                                                                                                                                           | 3.2±0.1   | D                                                                  | 3.2   | 3.21  | 3.2                            | 3.2   | 3.19  | DN   | OK |
|                                                                                                             | 宽mm                                                                                                                                                                           | 2±0.1     | E                                                                  | 2     | 1.98  | 2                              | 2.2   | 2.1   | DN   | OK |
|                                                                                                             | 长mm                                                                                                                                                                           | 7.2±0.1   | F                                                                  | 7.19  | 7.2   | 7.21                           | 7.2   | 7.2   | DN   | OK |
|                                                                                                             | 孔径mm                                                                                                                                                                          | 1±0.05    | G                                                                  | 1     | 0.99  | 1                              | 1.02  | 1     | DN   | OK |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
| 总体判定: <input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合格                                   |                                                                                                                                                                               |           | 不合格处理方式: <input type="checkbox"/> 返工 <input type="checkbox"/> 特采使用 |       |       |                                |       |       |      |    |
| 计量仪器代号说明: 投影仪-PP   量规-PG   高度规-HG   角度规-AG   游标卡尺-N   数显卡尺-DN   外径千分尺-M<br>三坐标-3D   螺纹规-SG   专用治具-SE   目视-E |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
| 备注:                                                                                                         |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |
|                                                                                                             |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       | 测定人: | 周刚 |
| 深圳市国质信网络通讯有限公司                                                                                              |                                                                                                                                                                               |           |                                                                    |       |       |                                |       |       |      |    |

## 九. 环境及可靠性试验 (Environment and reliability test) :

### 9.1. 盐雾测试报告 (Salt spray test report)



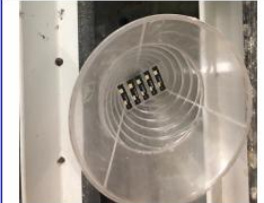

| 深圳市国质信网络通讯有限公司                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|-------------------|-----------|-------------------------|---------------|-------------------|-------------------------------------|------|----------------|-------------------------|---------|-----------------------------|-------|----------------------------------------|-------|-------------------------------------------|-------|-------------------------------------|---------|-----------------------------------|-----------------------------|---------------------------|--------|--------------------------------------|----------------------------------|
| 盐雾测试报告                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 产品名称<br>Product name                                                                | G10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 样品数量<br>Sample Q'ty                                                                                         | 2PCS               | 测试日期<br>Test date | 2023/4/25 |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 客户名称<br>Customer                                                                    | 信基                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 产品料号<br>Part/No.                                                                                            | NQI-G10-BS-BT-R-V6 | 产品规格<br>Product   | FPC       |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 试验时间 Test time                                                                      | ≤8H ≤12H ≤24H ≤48H <input checked="" type="checkbox"/> 72H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 测试项目<br>Test Item                                                                   | 盐水喷雾试验<br>Salt spray test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 测试要求<br>Test Requirement                                                            | <table border="1"> <thead> <tr> <th>条件项目<br/>Condition items</th> <th>设置<br/>Setting</th> <th>参考标准<br/>Reference</th> </tr> </thead> <tbody> <tr> <td>盐水浓度 Concentration of salt solution</td> <td>5±1%</td> <td rowspan="10">GB/T10125-1997</td> </tr> <tr> <td>PH值 PH of salt solution</td> <td>6.5-7.2</td> </tr> <tr> <td>试验室温度 Test room Temperature</td> <td>35±2℃</td> </tr> <tr> <td>盐水桶温度 Salt solution barrel temperature</td> <td>35±2℃</td> </tr> <tr> <td>饱和和压力桶温度 Saturated air barrel temperature</td> <td>47±1℃</td> </tr> <tr> <td>试验室相对湿度 Test room relative humidity</td> <td>85±2%RH</td> </tr> <tr> <td>压缩空气压力 Pressure of compressed air</td> <td>1.00±0.01KG/CM<sup>2</sup></td> </tr> <tr> <td>样品放置角度 Sample place angle</td> <td>15-30°</td> </tr> <tr> <td>盐雾收集量 Collected volume of salt spray</td> <td>1.0-2.0ml (80cm<sup>2</sup>/H)</td> </tr> </tbody> </table> |                                                                                                             |                    |                   |           | 条件项目<br>Condition items | 设置<br>Setting | 参考标准<br>Reference | 盐水浓度 Concentration of salt solution | 5±1% | GB/T10125-1997 | PH值 PH of salt solution | 6.5-7.2 | 试验室温度 Test room Temperature | 35±2℃ | 盐水桶温度 Salt solution barrel temperature | 35±2℃ | 饱和和压力桶温度 Saturated air barrel temperature | 47±1℃ | 试验室相对湿度 Test room relative humidity | 85±2%RH | 压缩空气压力 Pressure of compressed air | 1.00±0.01KG/CM <sup>2</sup> | 样品放置角度 Sample place angle | 15-30° | 盐雾收集量 Collected volume of salt spray | 1.0-2.0ml (80cm <sup>2</sup> /H) |
| 条件项目<br>Condition items                                                             | 设置<br>Setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 参考标准<br>Reference                                                                                           |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 盐水浓度 Concentration of salt solution                                                 | 5±1%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | GB/T10125-1997                                                                                              |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| PH值 PH of salt solution                                                             | 6.5-7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 试验室温度 Test room Temperature                                                         | 35±2℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 盐水桶温度 Salt solution barrel temperature                                              | 35±2℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 饱和和压力桶温度 Saturated air barrel temperature                                           | 47±1℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 试验室相对湿度 Test room relative humidity                                                 | 85±2%RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 压缩空气压力 Pressure of compressed air                                                   | 1.00±0.01KG/CM <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 样品放置角度 Sample place angle                                                           | 15-30°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 盐雾收集量 Collected volume of salt spray                                                | 1.0-2.0ml (80cm <sup>2</sup> /H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 试验结果<br>Result of measurement                                                       | 1. 测试图示方法 Test diagram & test method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 试验前样板                                                                               | 试验后样板                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 结果判定                                                                                                        |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 合格<br><input checked="" type="checkbox"/> 合格<br><input type="checkbox"/> 不合格<br><input type="checkbox"/> 待采 |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 受控表单: NQI-ST-01                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                             |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |
| 制作 Producer: 张芳芳                                                                    | 审核 Checked: 周晓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 核准 Approval: 牛兴刚                                                                                            |                    |                   |           |                         |               |                   |                                     |      |                |                         |         |                             |       |                                        |       |                                           |       |                                     |         |                                   |                             |                           |        |                                      |                                  |



9.2.低温储存试验 (Cryogenic storage test)

| 深圳市国质信网络通讯有限公司                                                |                                        |                  |                              |
|---------------------------------------------------------------|----------------------------------------|------------------|------------------------------|
| 低温储存试验报告                                                      |                                        |                  |                              |
| 报告日期 2023年04月27日                                              |                                        | 报告编号: 20230427-2 |                              |
| 产品名称                                                          | G10                                    | 料号               | NQI-G10-BS-BT-R-V6           |
| PART NAME ATION                                               |                                        | CUSTOMER P/N     |                              |
| 客户                                                            | 倍思                                     | 试验数量             | 2PCS                         |
| CUSTOMER                                                      |                                        | CHECK QTY        |                              |
| 测试标准                                                          | 企业标准                                   | 测试时间             | 2023/04/23<br>2022/04/25     |
| TEST STANDARD                                                 |                                        | THE TEST OF TIME |                              |
| <b>一. 试验条件/方法</b><br>在温度为-40±3℃, 条件下放置48小时; 取出样品后常温放置2小时检查判定。 |                                        |                  |                              |
| <b>二. 判定标准</b><br>试验后, 满足如下要求, 即为合格;                          |                                        |                  |                              |
| 1. FPC外观无变色、起泡、油墨脱落、变形, 胶粘度不变;                                |                                        |                  |                              |
| 2. 电压驻波比 (VSWR) 测试合格                                          |                                        |                  |                              |
| <b>三. 试验结果</b><br>检验结果描述                                      |                                        |                  |                              |
| 1. 样品整体外观良好, FPC外观无变色、起泡、涂层脱落、变形;<br>2. 测试波形与封样一致。            |                                        |                  |                              |
| 最终判定                                                          | <input checked="" type="checkbox"/> 合格 |                  | <input type="checkbox"/> 不合格 |
| FINAL RESULT                                                  | PASS                                   |                  | REJECT                       |
| 检验员                                                           | 卢咏秀                                    | 审核               | 陈义才                          |
| INSPECTOR                                                     |                                        | CHECKED BY       |                              |
| 表单编号: WI-QC-036/B01/A0                                        |                                        |                  |                              |

9.3.试验照片 (Test photos)

| 四. 试验照片                                                                                                                                                                                                                                                          |                                                                                                    |         |           |           |      |        |   |          |         |           |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------|-----------|-----------|------|--------|---|----------|---------|-----------|-----------|
| 1. 试验前样品<br>                                                                                                                                                                  | 2. 试验照片<br>    |         |           |           |      |        |   |          |         |           |           |
| 3. 试验图示<br>                                                                                                                                                                   | 4. 试验后样品图示<br> |         |           |           |      |        |   |          |         |           |           |
| <b>五. 试验涉及设备信息</b> <table border="1"> <thead> <tr> <th>序号</th> <th>设备名称</th> <th>规格型号</th> <th>校准日期</th> <th>下次校准时间</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>可编程恒温恒湿箱</td> <td>LX-1506</td> <td>2023.1.26</td> <td>2024.1.25</td> </tr> </tbody> </table> |                                                                                                    | 序号      | 设备名称      | 规格型号      | 校准日期 | 下次校准时间 | 1 | 可编程恒温恒湿箱 | LX-1506 | 2023.1.26 | 2024.1.25 |
| 序号                                                                                                                                                                                                                                                               | 设备名称                                                                                               | 规格型号    | 校准日期      | 下次校准时间    |      |        |   |          |         |           |           |
| 1                                                                                                                                                                                                                                                                | 可编程恒温恒湿箱                                                                                           | LX-1506 | 2023.1.26 | 2024.1.25 |      |        |   |          |         |           |           |
| 报告完竣                                                                                                                                                                                                                                                             |                                                                                                    |         |           |           |      |        |   |          |         |           |           |