

规格承认书 Specification sheet

| | |
|--|--|
| 客 户 Customer name | _____ |
| 客户料号 Customer P/N | _____ |
| 品 名 | 399-WIFI1, FPC 黑色, 白色印字: 399-WIFI-1, 右, 接 1.13 黑色线四代端子 L=160MM ROHS |
| Article Description 同讯料號 TOXU Part No. | KC. IA. 00516 |
| 承认书号码 Approval sheet No. | A20240711-001 |
| 日 期 Date | 2024. 07. 11 |

| 承认填写栏 Signature confirmation | | | |
|-------------------------------------|--------------|------------------------------------|--|
| 供应商确认 (供方填写栏) Supplier signature | | 客户承认 (需方填写栏) Customer signature | |
| 李德文 | | | |
| 盖章 seal: | | 盖章 seal: | |
| 日期 date | 2024. 07. 11 | 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) |

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

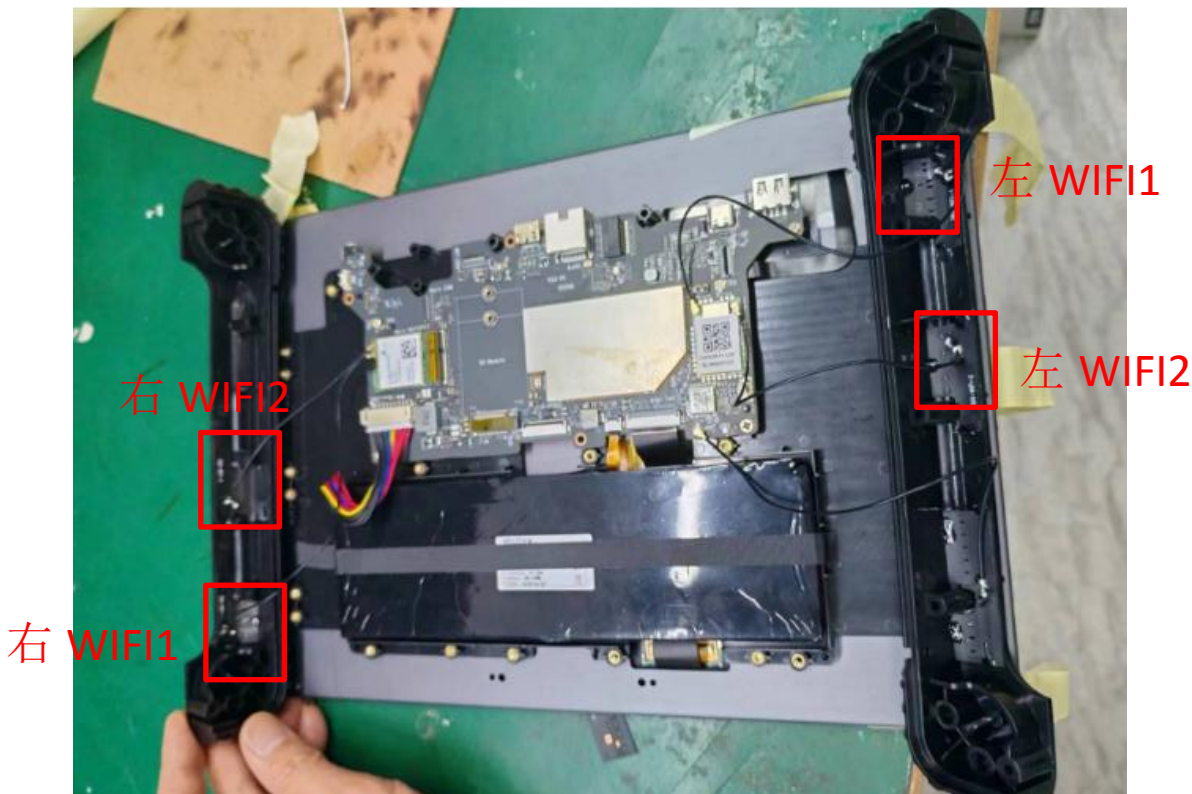
电话 (TEL)：0755-28199597

网址 (WEB)： www.toxutech.com

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 | LI | 2024.07.11 | First Version |
| | | | |
| | | | |
| | | | |
| | | | |

4. 产品相片(Product photos):



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

| | | | |
|-----------------------------------|------------------------------------|----------------------------|------------------------------------|
| 产品名称 (Name) | 右WiFi1 天线 | 产品型号 (Model Type) | KC. IA. 00516 |
| 电性能指标 (Electrical Specifications) | | | |
| 频率范围 (Frequency Range) | 2400-2500MHZ/5200-5800MHZ | 极化方式 (Polarization) | 线极化linear |
| 输入阻抗 (Impedance) | 50 Ω | 辐射方向 (Radiation direction) | 全向 omnidirectional |
| 驻波比 (VSWR) | ≤ 2.0 | 功率容量 (Power) | 10W |
| 增益 (Gain) | 3.08dBi (MAX) | 带宽 (Bandwidth) | 100/700MHZ |
| 机械指标 (Mechanical Specifications) | | | |
| 尺寸 (Dimensions) | 30.6*17.9*0.25MM | 颜色 (colour) | 黑色black |
| 连接器型号 (Connector) | IPEX-I | 引线长度 (Cable Length) | 160MM |
| 材料 Radome Material | FPC | 盐雾 (Salt spray test) | 48H |
| 工作温度 (Working Temperature) | -40 $^{\circ}$ C--+85 $^{\circ}$ C | 存放温度 (Limit Temperature) | -40 $^{\circ}$ C--+85 $^{\circ}$ C |
| 天线类型 (Antenna type) | PIFA | | |

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

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 | <ol style="list-style-type: none"> 1. Return loss 2. VSWR | Network analyzer (Aglient E5071C) |
| The whole machine of Passive parameters | <ol style="list-style-type: none"> 1. Frequency 2. Gain 3. Radiation Patten | <ol style="list-style-type: none"> 1.3D microwarve darkroom (4M*3M*3M) 2.Network analyzer |
| The whole machine of Active parameters | <ol style="list-style-type: none"> 1. TRP 2. TIS | <ol style="list-style-type: none"> 1.3D microwave darkroom (4M*3M*3M) 3. Comprehensive test instrument (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

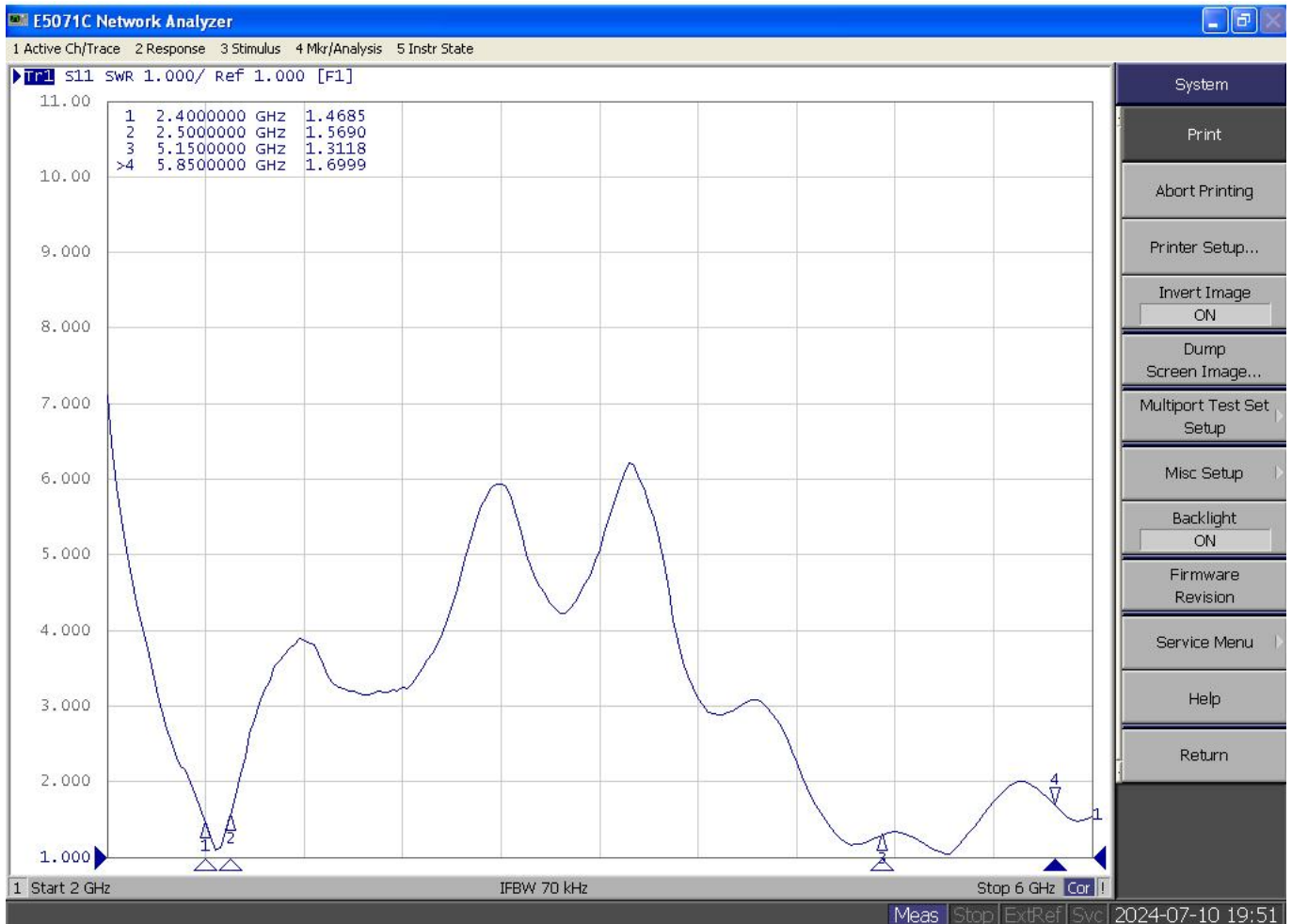
ADDRESS:5th floor, No. 52, Xikeng Road, Xikeng community, Fucheng street, Longhua District, Shenzhen

电话 (TEL) : 0755-28199597

网址 (WEB) : www.toxutech.com

6.2 性能报告(Performance report)

6.2.1 电压驻波比 (VSWR) : 右 WIFI1



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

6.2.2 效率@增益 (Efficiency and Gain) :

| Frequency/Mhz | MaxGain/dBi | Efficiency / % | Frequency/Mhz | MaxGain/dBi | Efficiency / % |
|---------------|-------------|----------------|---------------|-------------|----------------|
| 2400 | 1.12 | 47.64 | 5330 | 2.4 | 50.58 |
| 2410 | 1.6 | 50.35 | 5360 | 2.51 | 54.08 |
| 2420 | 1.18 | 48.19 | 5390 | 2.01 | 53.33 |
| 2430 | 1.6 | 49.2 | 5420 | 2.31 | 54.08 |
| 2440 | 1.57 | 50.47 | 5450 | 2.23 | 56.1 |
| 2450 | 1.5 | 49.55 | 5480 | 2.4 | 51.88 |
| 2460 | 1.18 | 49.55 | 5510 | 2.83 | 56.75 |
| 2470 | 1.72 | 50.93 | 5540 | 2.99 | 56.75 |
| 2480 | 1.42 | 50.7 | 5570 | 2.74 | 53.95 |
| 2490 | 1.95 | 53.21 | 5600 | 2.69 | 52.24 |
| 2500 | 1.71 | 53.09 | 5630 | 2.93 | 53.46 |
| | | | 5660 | 2.71 | 50.7 |
| 5150 | 3.03 | 51.76 | 5690 | 2.49 | 48.64 |
| 5180 | 2.88 | 52 | 5720 | 2.82 | 49.66 |
| 5210 | 2.71 | 50 | 5750 | 2.57 | 46.34 |
| 5240 | 2.35 | 48.53 | 5780 | 2.79 | 46.45 |
| 5270 | 2.12 | 46.24 | 5810 | 2.96 | 44.36 |
| 5300 | 2.19 | 48.31 | 5840 | 2.96 | 47.32 |

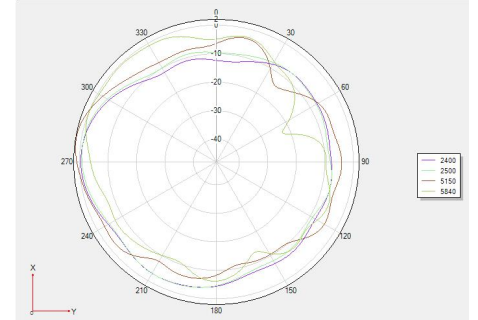
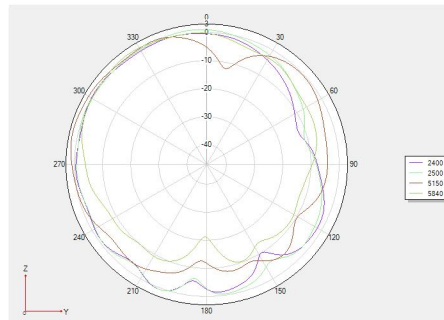
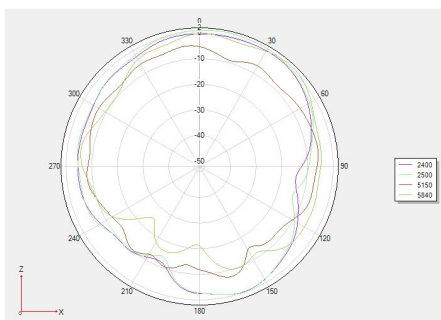
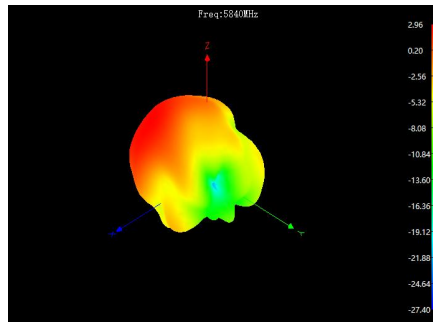
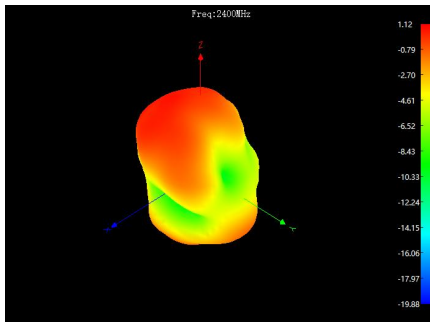
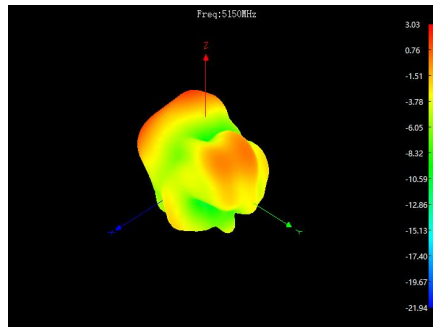
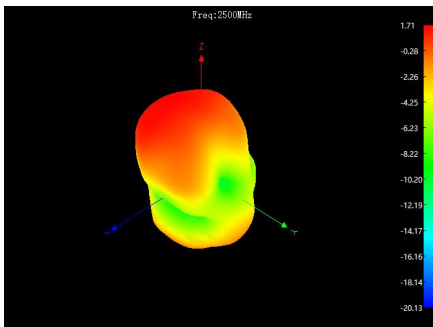
地址：深圳市龙华区福城街道茜坑社区茜坑路 52 号

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

电话 (TEL) : 0755-28199597

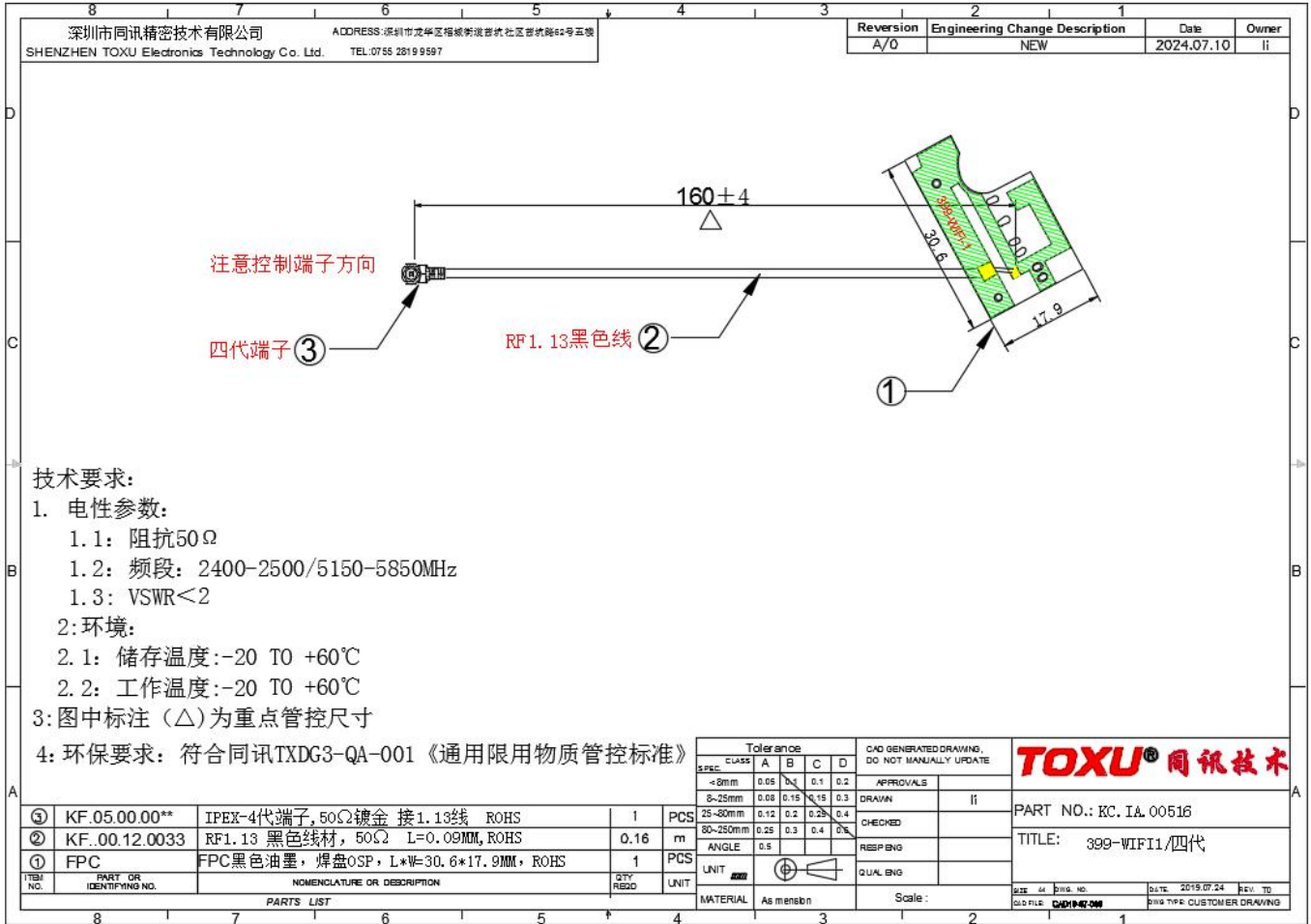
网址 (WEB) : www.toxutech.com

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



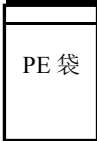
| | |
|---------------------------|---------------|
| 测试人 (Tested by) | DEWEN-LI |
| 电话 (Contact phone number) | 0755-28199597 |
| 日期 (date) | 2024.06.12 |

7.成品图 (Customer Drawing)

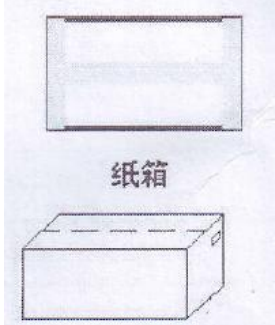


8. 包装方式 (Packaging) :

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



PE 袋



纸箱