



客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT 客户/机型: 鸣志 NEMA 无线单灯控制器

CUSTOMER P.N./ 客户物料号: _____

PRODUCT NAME./ 物料名称: WIFI 内置天线

MODEL NO./ 物料型号: 6Q015A-11

SPECIFICATION/ 物料规格: _____

| SUPPLIER AUTHORIZED SIGNATURE/供应商承认签核 | | |
|---------------------------------------|------------|-------------|
| 制作/PREPARED | 审核/CHECKED | 批准/APPROVED |
| 肖文珍 | | |

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|--------------------------------------|--|----|--|
| 项目 | | 质量 | |

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1 名词解释/Noun explanation

| | |
|-------|-----------------------------------------|
| dBi | Decibel relative isotropic antenna |
| Tx | Transmit frequency |
| Rx | Receive frequency |
| TRP | Total Radiated Power |
| TIS | Total Isotropic Sensitivity |
| VSWR | Voltage Standing Wave Ratio |
| GSM | Global Service for Mobile communication |
| DCS | Digital Communication System |
| CDMA | Code Division Multiple Access |
| WCDMA | Wideband Code Division Multiple Access |

2 测试设备/Test equipment

矢量网络分析仪/ network analyzer

综合测试仪/ Agilent8960

SATIMO64 位暗室/ SATIMO64 chamber

3 适用频段/Working frequency band

将适用的频段用其他颜色标出/The yellow Identification is the using band

| 制式/ band | 上行/ uplink | 下行/ downlink |
|--------------|-----------------|-----------------|
| GSM850 | 824MHz~849MHz | 869MHz~894MHz |
| GSM900 | 890MHz~915MHz | 935MHz~960MHz |
| DCS1800 | 1710MHz~1785MHz | 1805MHz~1880MHz |
| PCS1900 | 1850MHz~1910MHz | 1930MHz~1990MHz |
| CDMA800 | 825MHz~835MHz | 870MHz~880 MHz |
| CDMA2000 | 824MHz ~849MHz | 869MHz ~894MHz |
| WCDMA2100 | 1920MHz~1980MHz | 2110MHz~2170MHz |
| TD-SCDMA1900 | 1880MHz~1920MHz | 1880MHz~1920MHz |
| TD-SCDMA1900 | 2010MHz~2025MHz | 2010MHz~2025MHz |
| WIFI (2.4G) | 2412MHz~2483MHz | 2412MHz~2483MHz |

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4 基本测试项目/Test project

4.1 驻波比图/VSWR plot

4.2 史密斯阻抗图/Simth plot

4.3 辐射方向图/Radiation pattern

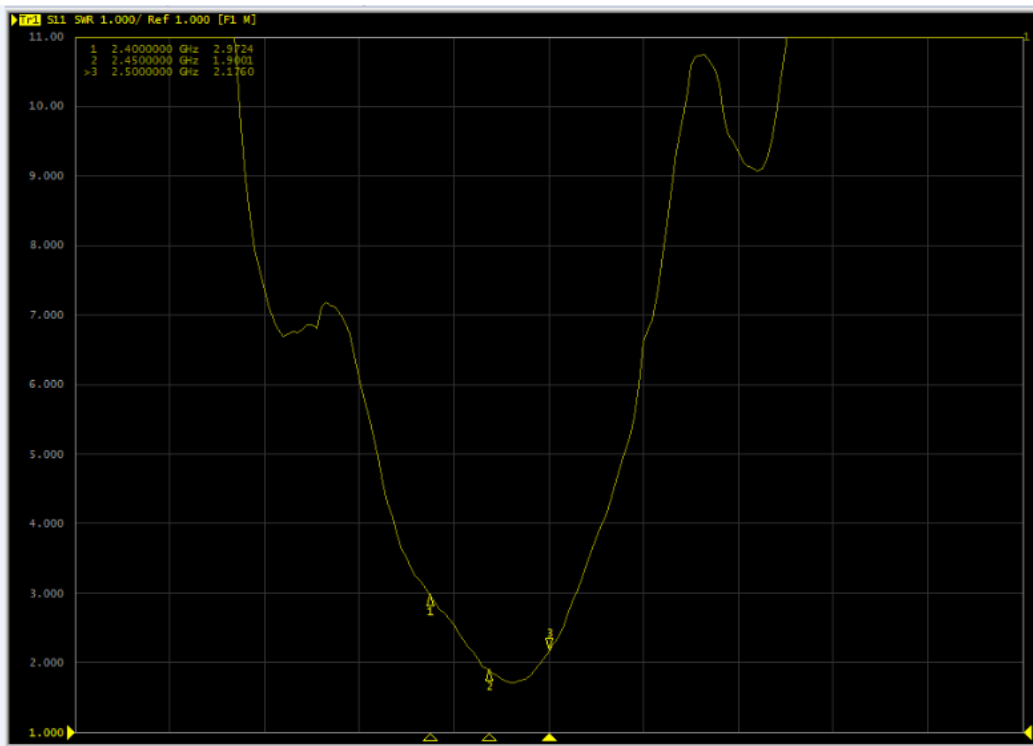
4.4 增益和效率/Gain & Efficiency

4.5 TRP&TIS 测试

5 测试指标和数据图表/Antenna parameter

5.1 驻波比/VSWR

5.1.1 驻波比图/VSWR plot

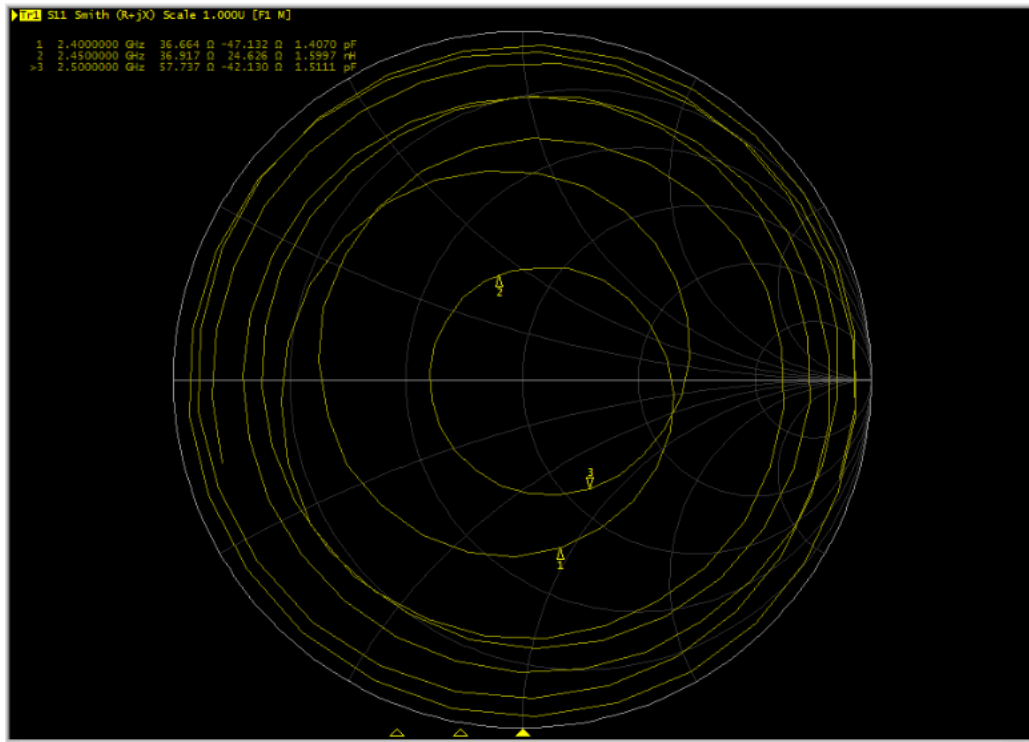


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5.1.2 驻波比数据/VSWR data

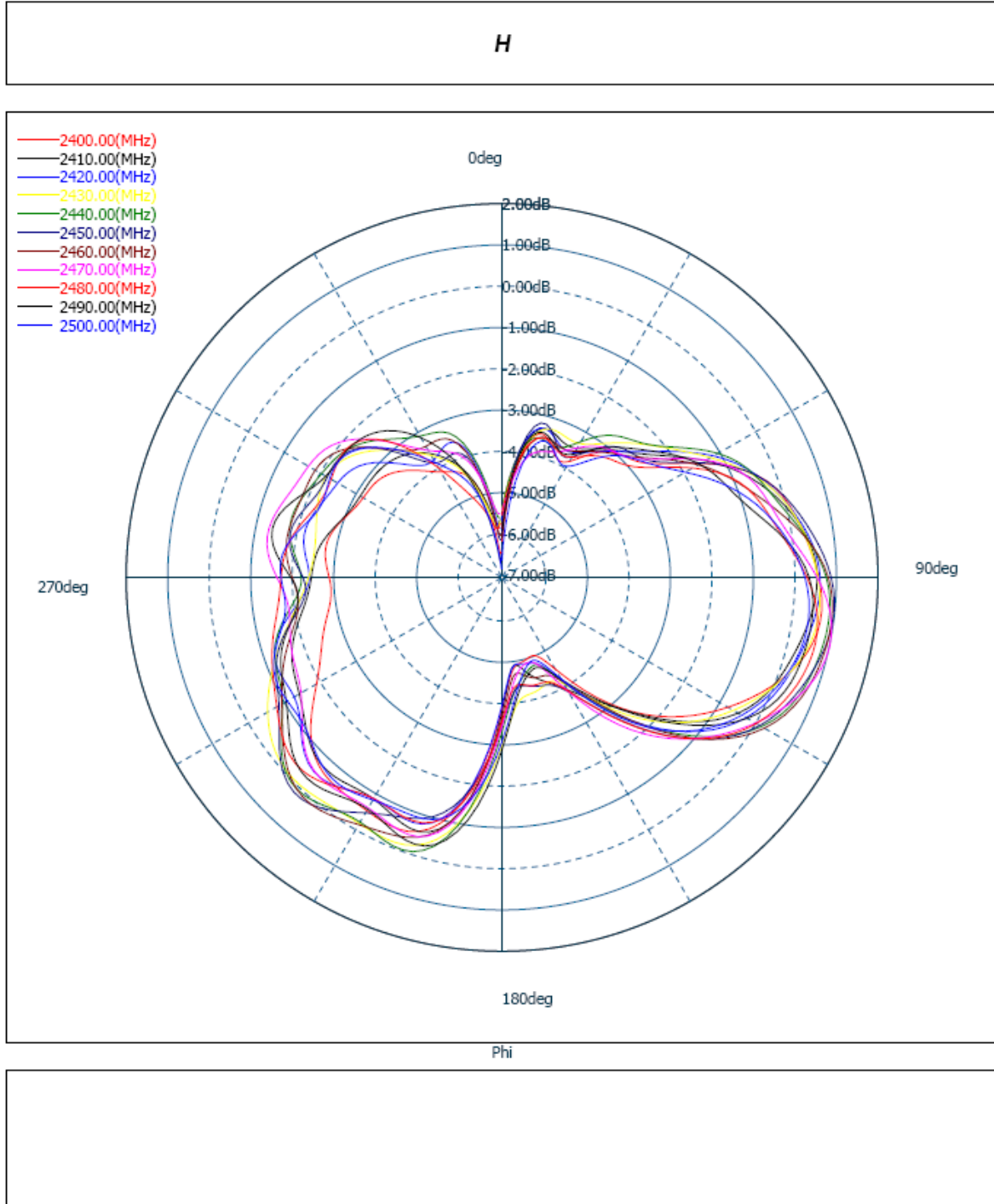
| | | | |
|----------|------|------|------|
| Freq/MHz | 2400 | 2450 | 2500 |
| VSWR | 2.97 | 1.90 | 2.17 |

5.2 史密斯阻抗圆图/Simth plot



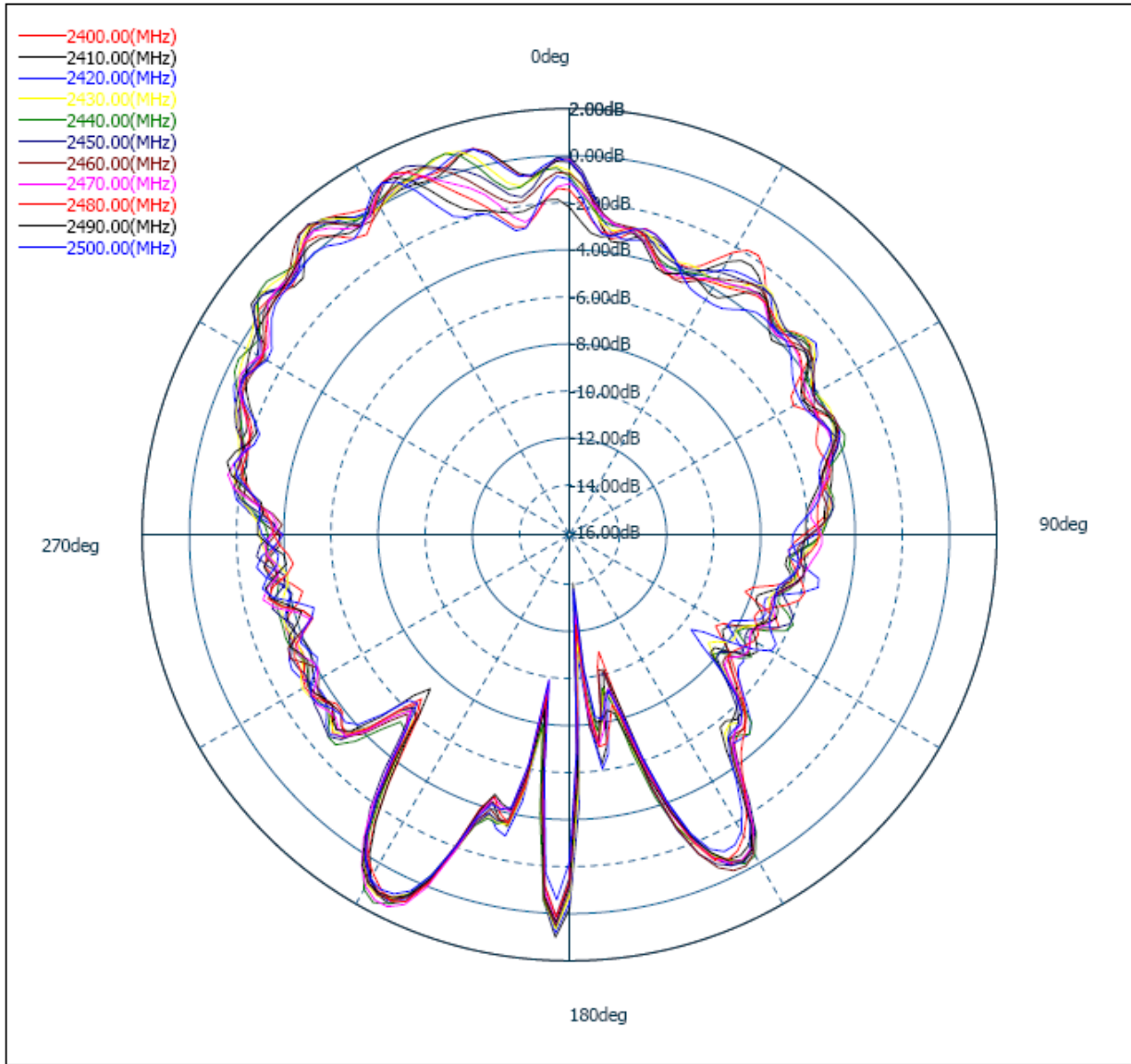
5.3 辐射方向图/Radiation pattern

5.3.1 H-plane



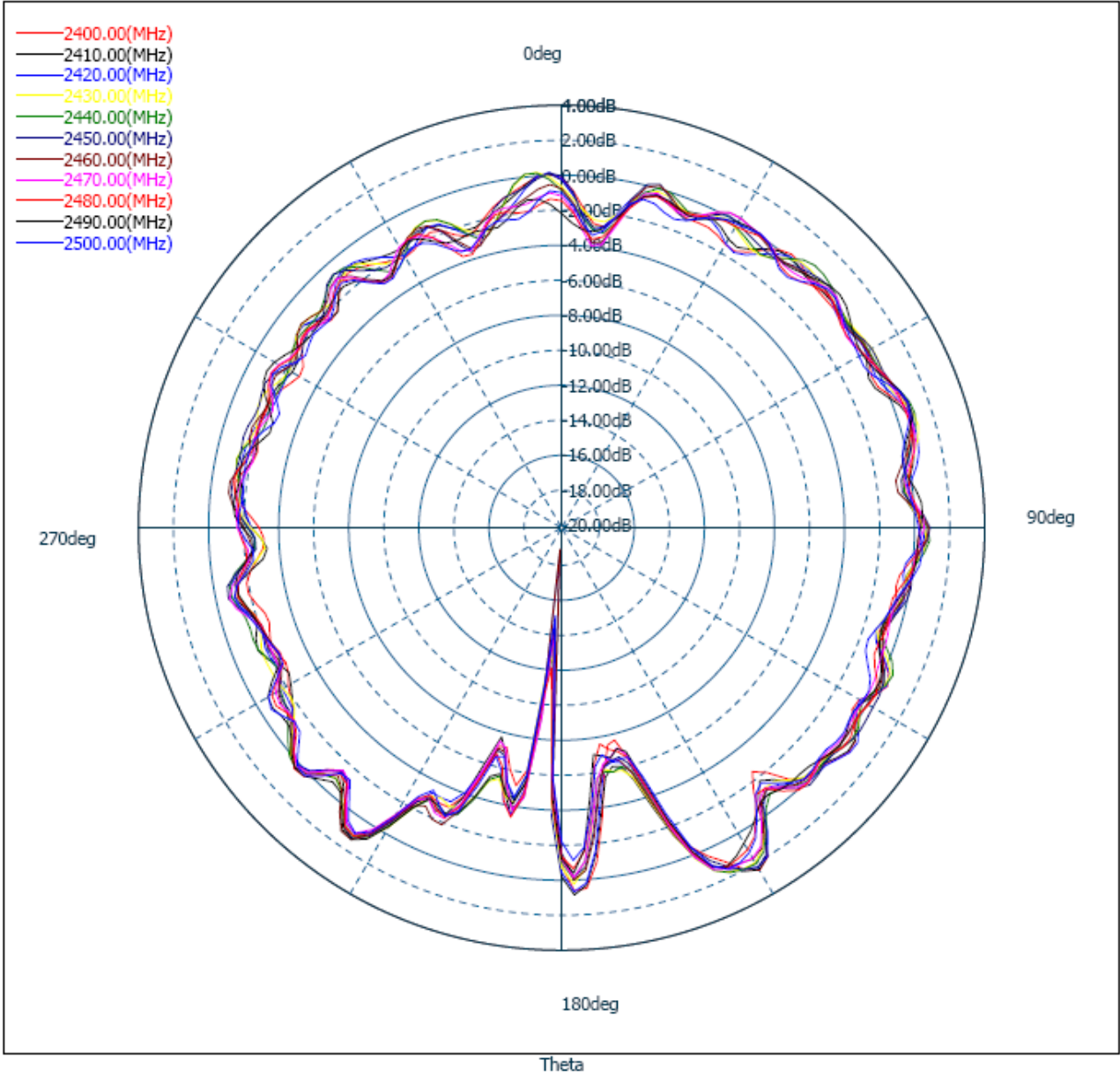
5.3.2 E-plane

E1



Theta

E2



5.4 增益和效率/UGain & Efficiency

| Frequency [Hz] | Efficiency | Gain [dBi] |
|----------------|------------|------------|
| 2.4E+09 | 61% | 2.572368 |
| 2.41E+09 | 62% | 2.616763 |
| 2.42E+09 | 63% | 2.658202 |
| 2.43E+09 | 64% | 2.614882 |
| 2.44E+09 | 65% | 2.8819 |
| 2.45E+09 | 65% | 2.67603 |
| 2.46E+09 | 64% | 2.687956 |
| 2.47E+09 | 63% | 2.608554 |
| 2.48E+09 | 62% | 2.383194 |
| 2.49E+09 | 61% | 2.418574 |
| 2.5E+09 | 59% | 2.305513 |

6 环境处理建议/Environmental treatment suggestions

环境不需要做处理/ Environment does not need treatment

7 阻抗匹配要求/Impedance matching

匹配电路没有修改/ *The matching circuit has not been changed*

9 天线安装指导/Antenna installation guide

9.1 天线安装及馈线走线说明/Antenna installation instructions



10 其他/Other