




SOLUM CO., LTD. 귀중

APPROVAL SHEET (승인원)

Date	2023.08.23
Part Name	3.03.0101003151
Description	2.4G PCB Antenna with RF 1.13 Cable, L=260mm
ETC	Lead & Halogen Free PRODUCT

승인 유효기간 승인일로부터 단종, 대체 부품 승인시까지

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规格承认书

Specification for Approval

客户名称: YNOT Co., Ltd (Solu-M)
 Customer:
 规格描述: 2.4G PCB Antenna with RF 1.13 Cable, L=260mm
 Part name
 飞宇信料号: 3.03.0101003151
 Part No.
 客户料号:
 Customer Part No.

客户承认印 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SALES	CHECK	CHIEF	DESIGN
<i>Effy</i>	<i>Zhou</i>	<i>Jerry</i>	<i>Young</i>
Date:2023-08-10		Date:2023-08-10	
THANKS FOR OFFERING US THE OPPORTUNITY TO SEND SAMPLES FOR APPROVEMENT. PLS KINDLY SIGN BACK THIS DOCUMENT TO US WHEN SAMPLES ARE APPROVED.			

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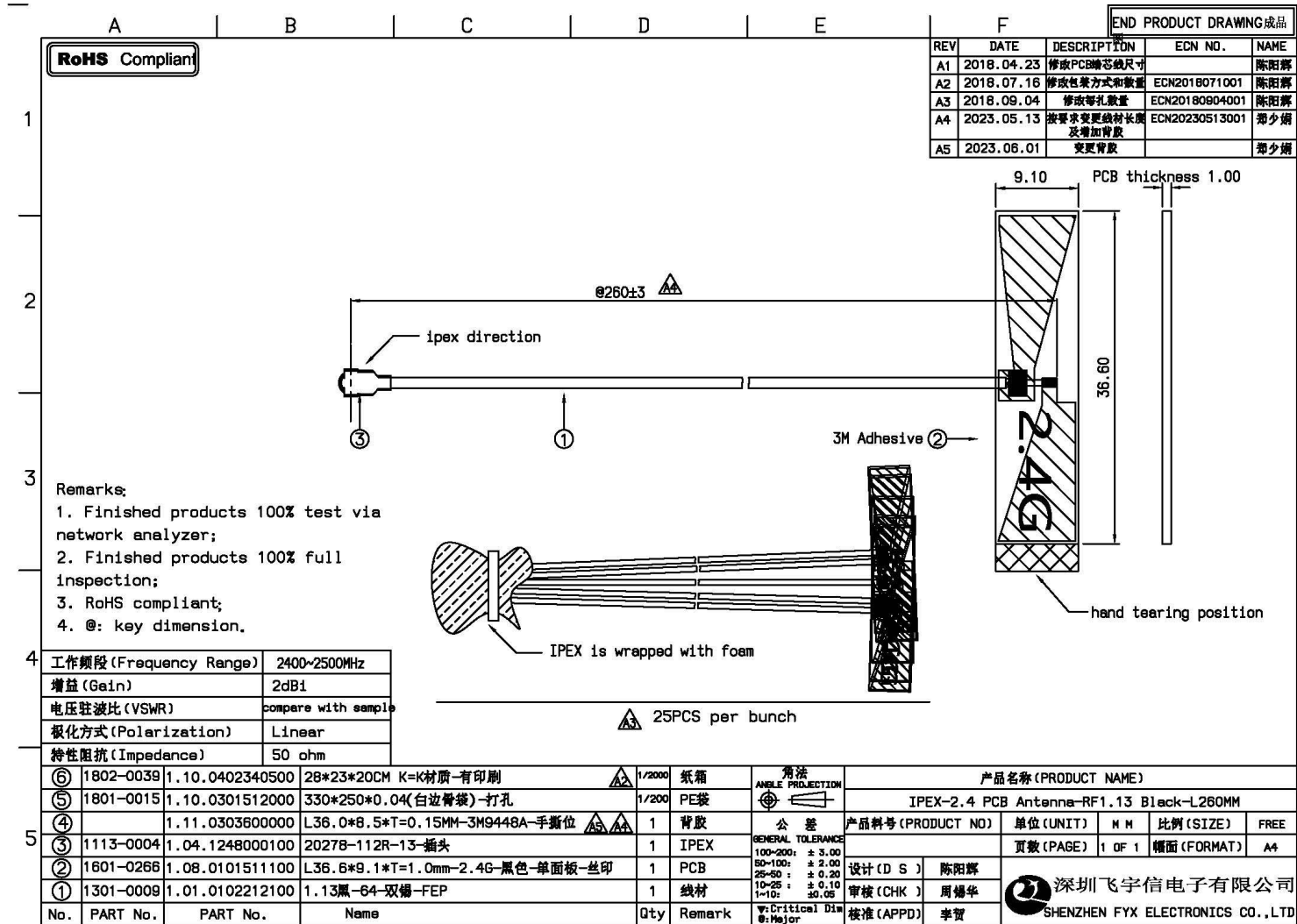
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Modification Record

Revision	Date	Engineer	Modified Content
01	2023.08.10	Jerry	NEW

Antenna Drawing



表单编号: FYX/E-QR-14A 版本: 第三版

Product Specifications

Product Name: 2.4G PCB Antenna with RF1.13 Cable	
DESCRIPTION	VALUE
Frequency range	2400~2500MHz
Impedance	50Ω
V.S.W.R	Compare with sample
Gain	1~2dBi
Radiation	Omni-directional
Radiating element	1/4 Wave Helical
Polarization	Linear Vertical
Admitted power	5W
Connector	RF 1.13
Operating temp	-40°C~+70°C
Storage temp	-45°C~+75°C

1. Summary 概要:

This report states the measurement and result of the antenna. The measurement includes VSWR and reflection coefficient of s-parameter.

2. S-Parameter Measurement S 参数的量测:

A. Reflection coefficient:

a. Instrument: Network Analyzer .

b. Setup:

(1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.

(2) Connect the antenna under test to the Network Analyzer.

(3) Measure the S11(reflection coefficient) shown in Fig. 1.

(4) Generally, the S11 is less than -10dB to ensure the 90% VSWR 2.0:1 power into antenna and only less than 10% power back to system.

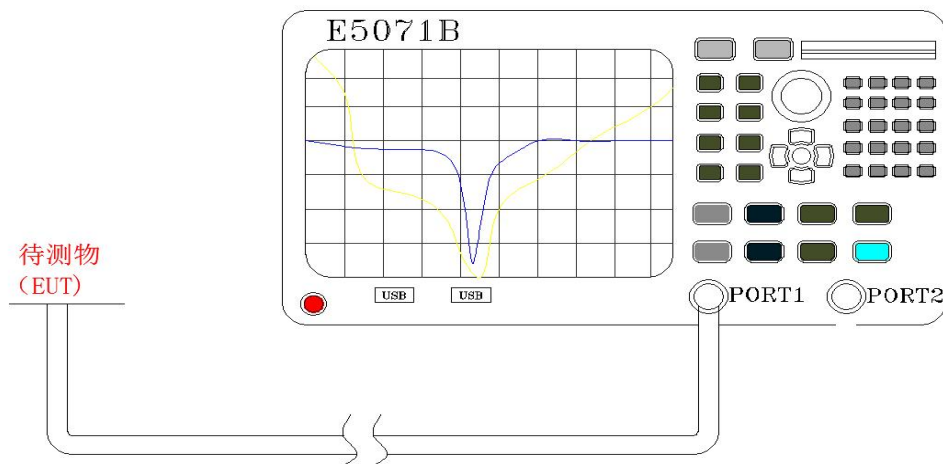


Fig.1 Antenna measured in Network Analyzer

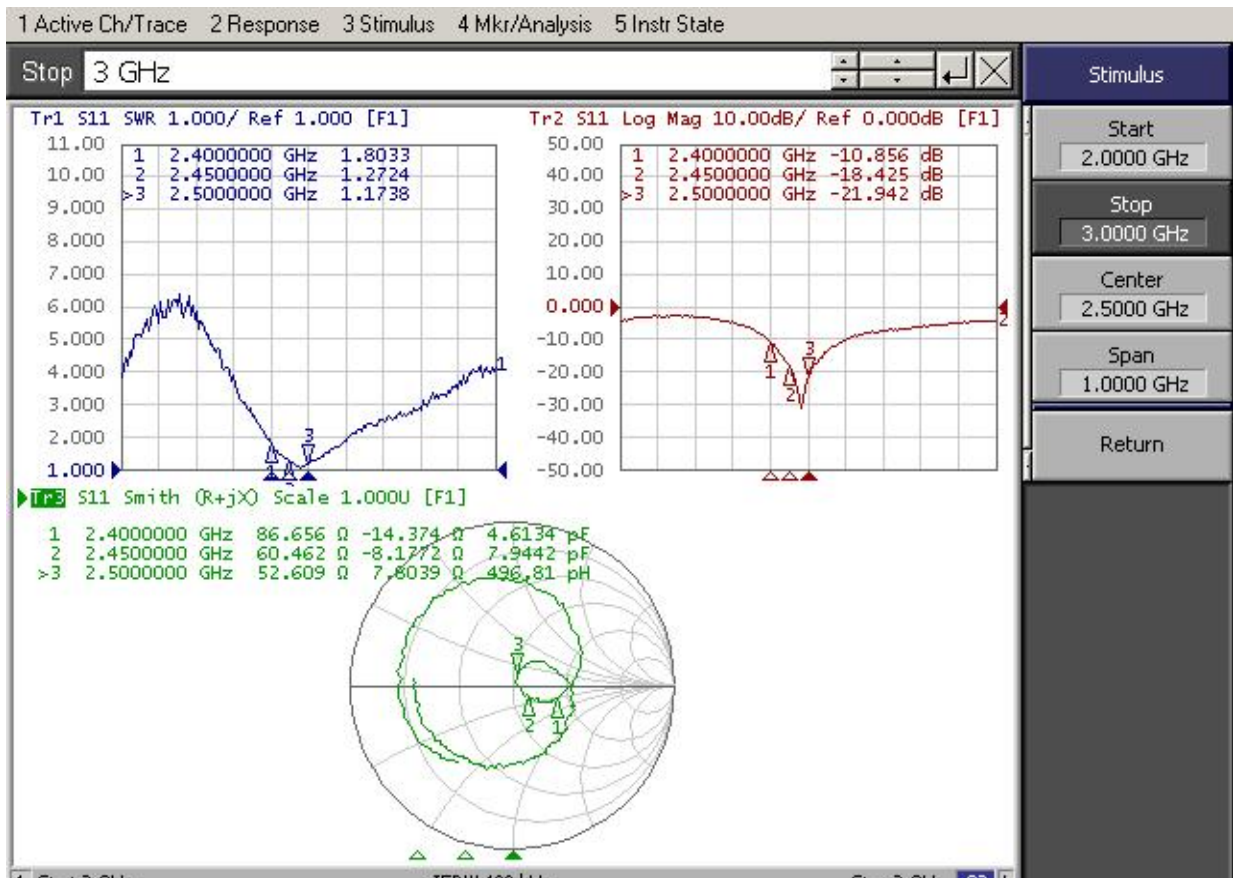
图 1 天线测量网络分析仪

3. S-Parameter Measurement Result S 参数的量测结果:

S-Parameter test data S-参数量测数据:

Frequency MHz 工作频段	2400MHz	2450MHz	2500MHz
V.S.W.R 驻波比	1.80	1.27	1.17

S-Parameter test image S-参数量测图片:



4. Test Information from Anechoic Chamber 全电微波暗室测试报告

4-1 Summary 概要

This test defines the measurement range of a far-field antenna, which includes:

- 1) One 400 cm (W) x 300 cm (H) x 500 cm (L) Antenna Measurement Anechoic Chamber.
- 2) Testing Equipment: Agilent 5071B

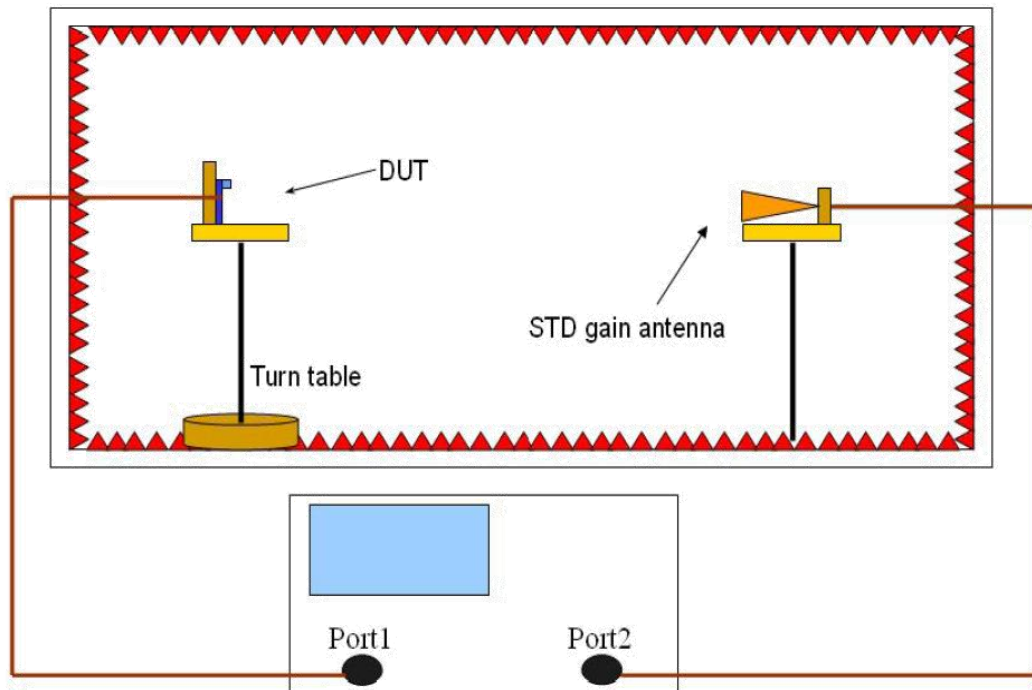


Fig.1 Antenna measured in Network Analyzer

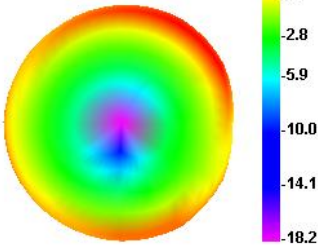
图 1 天线测量网络分析仪

4-2 Antenna Measurement Result 天线测试结果

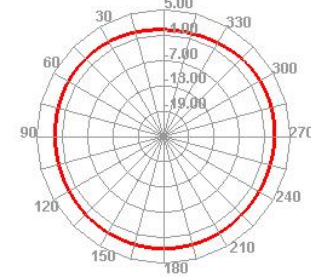
Wi-Fi Antenna Gain and Efficiency:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	84.74	2.29
2410	90.29	2.46
2420	82.99	2.04
2430	86.22	2.17
2440	85.86	2.2
2450	90.91	2.42
2460	91.45	2.5
2470	88.87	2.35
2480	85.64	2.18
2490	84.25	2.03
2500	83.51	1.97

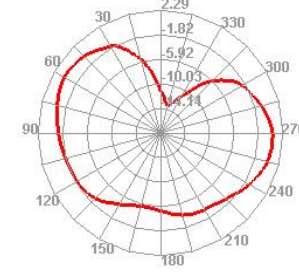
2400.000MHz



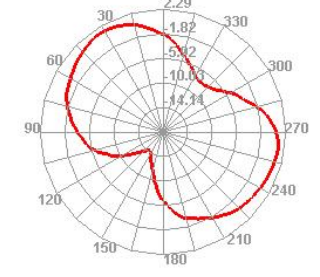
2400.000MHz H



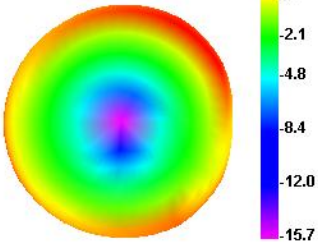
2400.000MHz E1



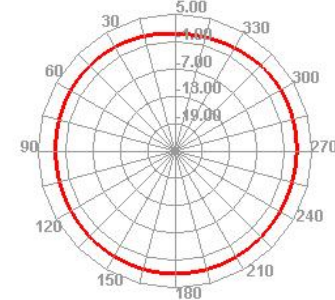
2400.000MHz E2



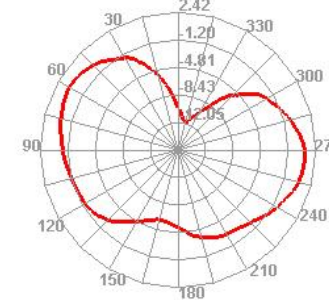
2450.000MHz



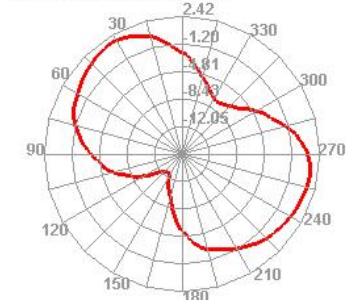
2450.000MHz H



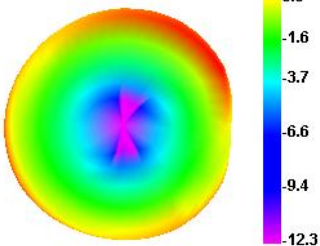
2450.000MHz E1



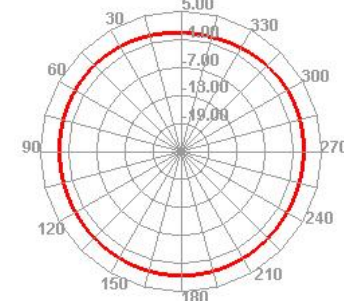
2450.000MHz E2



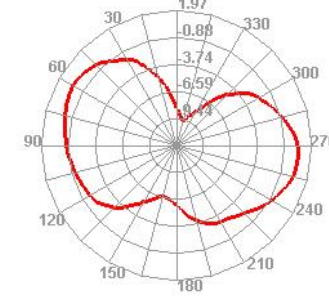
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

