



上海增信电子有限公司
Signal Plus Technology Co., Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期
DATE: 2024.01.23

版本
REV.: A

客 户
CUSTOMER: Shanghai LiulianIntelligent Technology Co., LTD

Address: 2405-06, Baotai Building, 182 Design Park, 182 Bulan Road,Lilan gComm unity,Nan wan Street,Lon ggangDistrict ,Shen zhen

型号
Model: 0584-X2-Right

品 名
PART NAME: 内置 2.4G&5G WiFi FPC天线, 1.13黑色普通线L=170mm with RF CONN(4代)
for ARB39 副端口

供 方 料 号
SUPPLIER P/N: 6241F00018

送样日期Date: 送样数量Q'TY: Pcs

客户确认CUSTOMER APPROVED BY		
核准 Approved by	审核 Checked by	确认 Confirmed by

供方确认SUPPLIER SIGNATURE		
核准 Approved by	审核 Checked by	拟制 Prepared by
Andy		Cindy

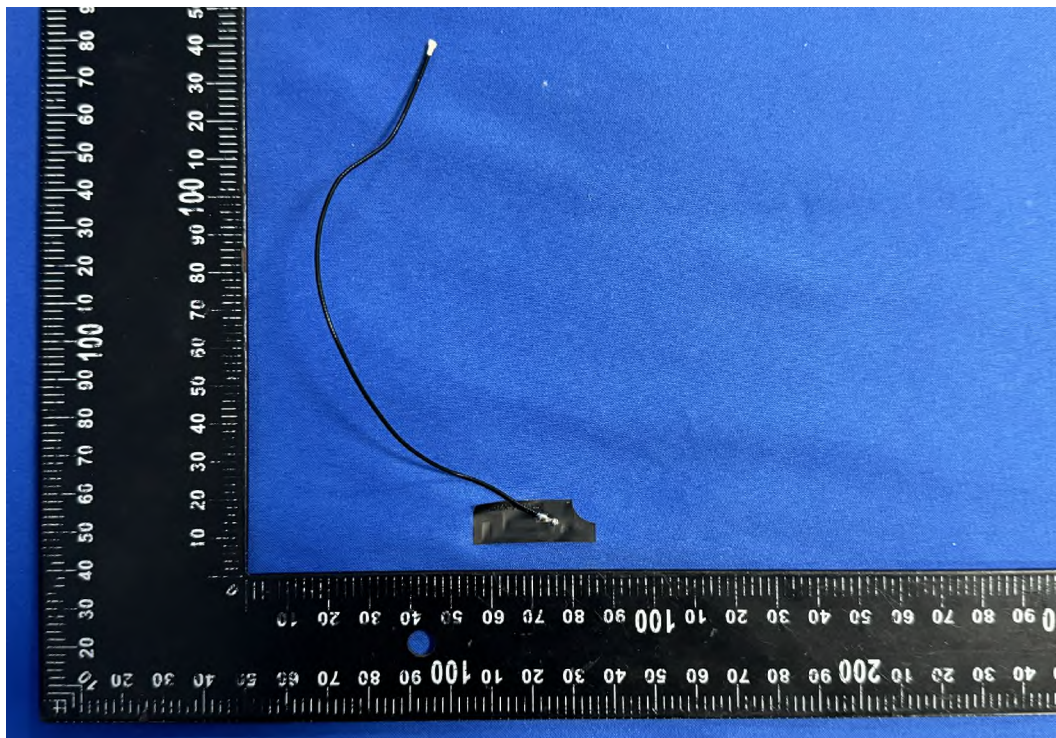
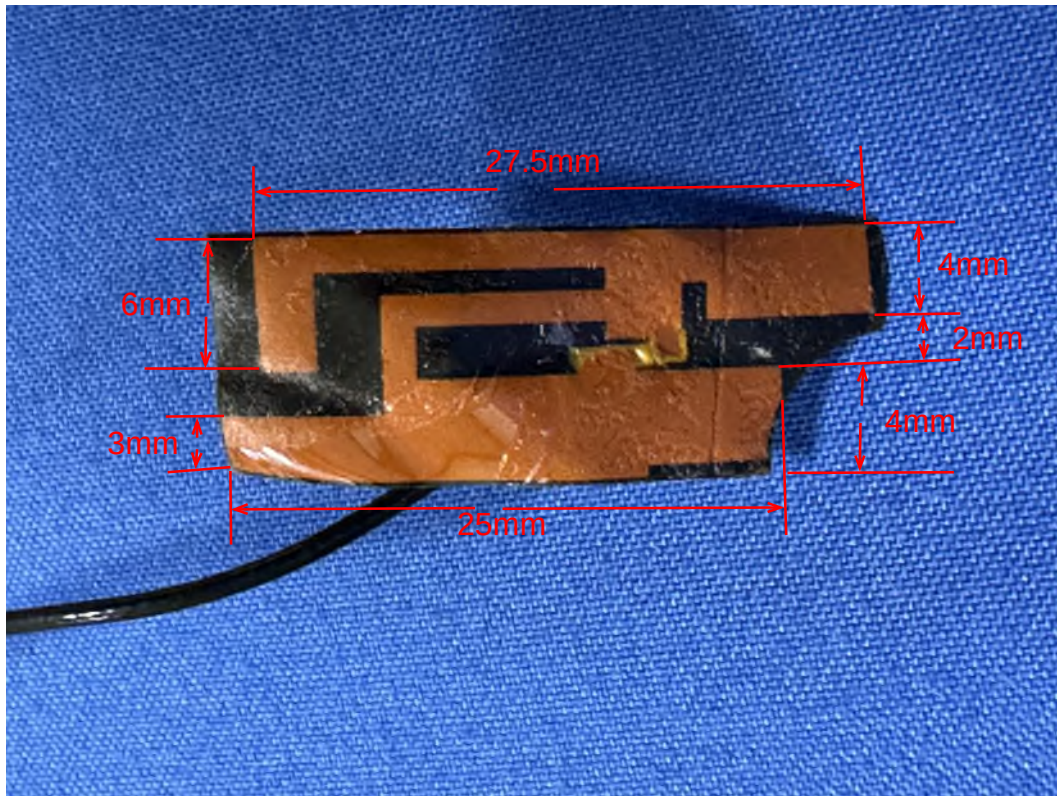
ZX-QT-RD-0011-A1

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Antenna size





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Antenna Test Report

©V2

2024.1.19

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Test setup
Antenna Solution
S Parameter --- Return Loss, Isolation
Efficiency and Peak Gain
Radiation Patterns
Summary

1. Test system description---S Parameter

1.1. Test Setup

1.1.1 VNA Test Setup

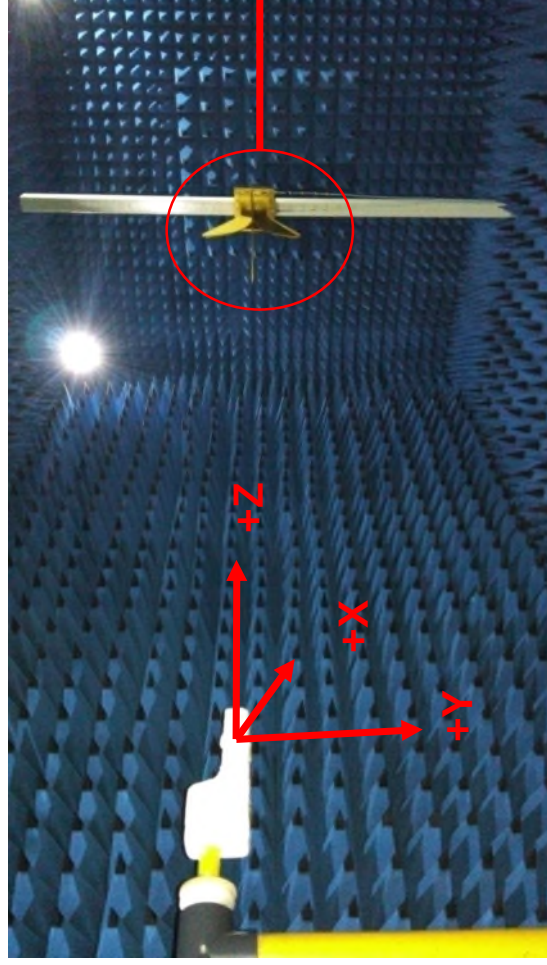
S parameter measurements (S) were performed using an Keysight E5071C Network Analyzer and previously described test fixtures. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



1. Test system description--- Anechoic Chamber Test Setup

1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber(ETS 3D). The chamber provides less than -30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is: 7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



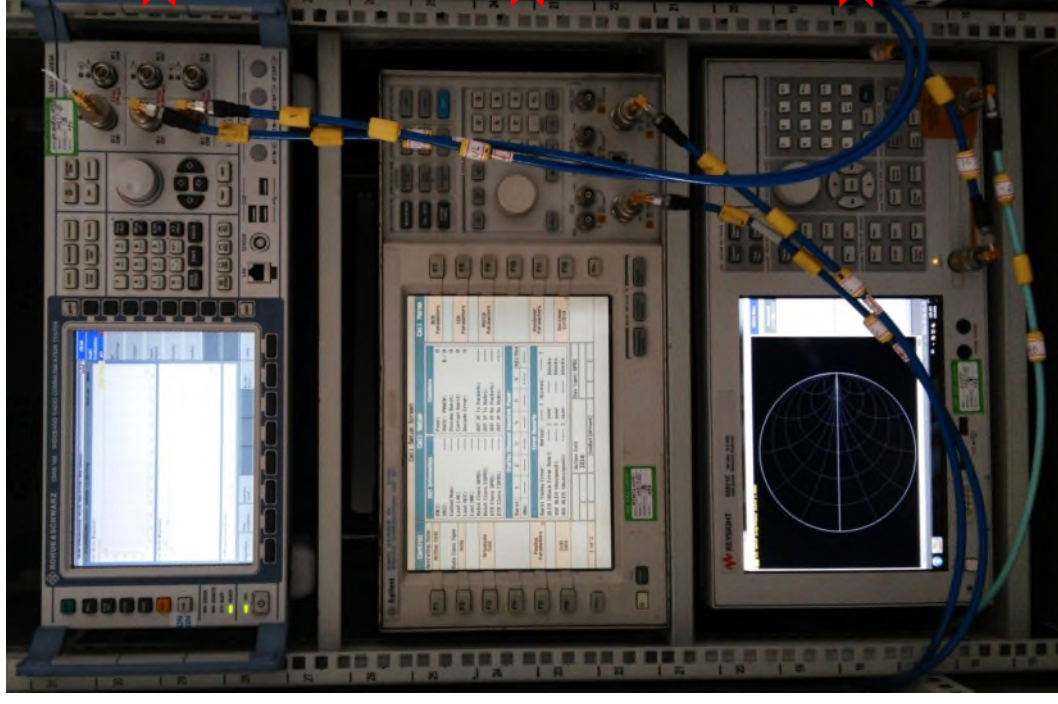
Horn Antenna



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1.Test system description--- Test Instruments

1.1.3 Instruments



R&S CMW500
4G/WIFI
(LTE/WIFI b/g/a)

Agilent 8960
2G/3G
(GSM/CDMA/WCDMA)

KeySight E5071C
(400MHz~6GHz)

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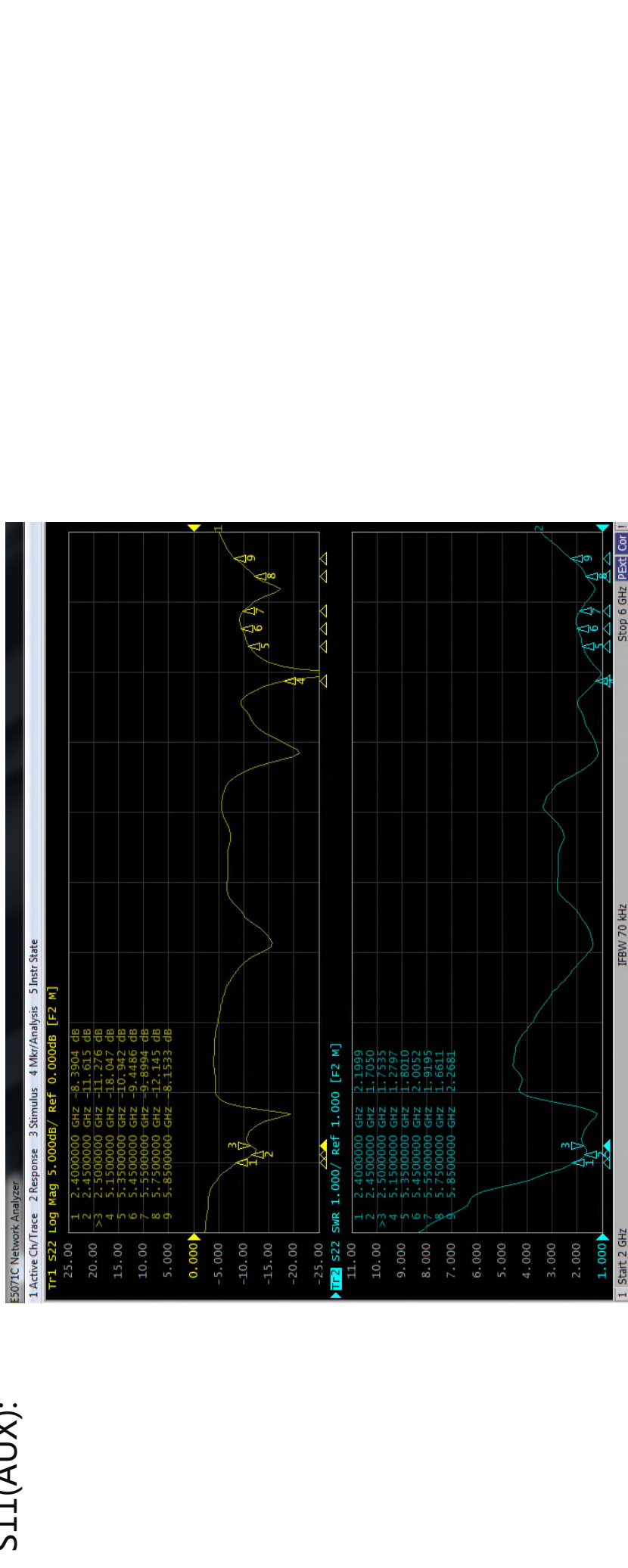
2. Antenna Solution

2.1 Antenna Location Pictures for passive



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S11(AUX):



3.Test Result---Efficiency、 Gain

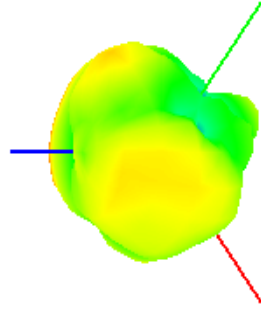
Data :

Freq. (MHz)	Gain (dBi	Efficiency (%)

3.Test Result---Efficiency、 Gain

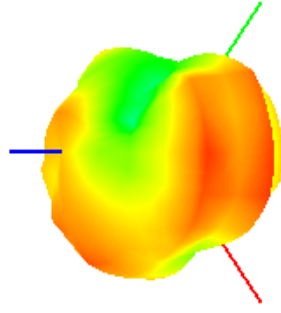
Radiation patterns:

2450.00MHz@T45P45

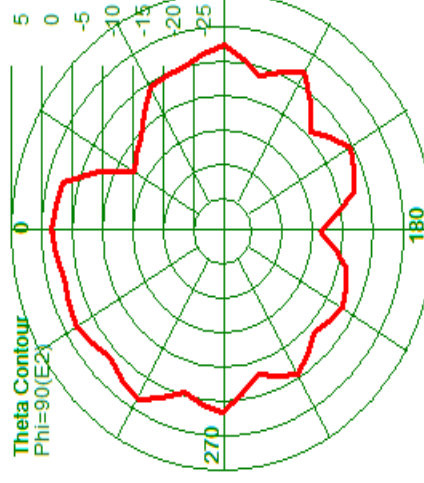
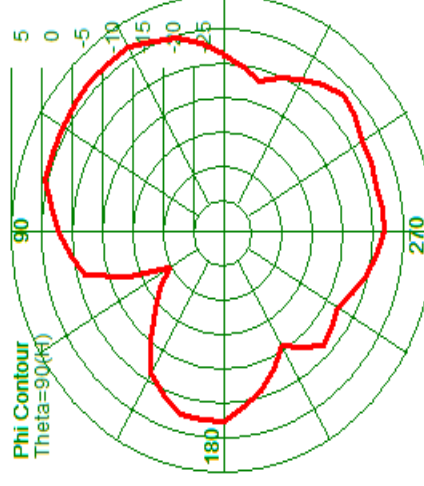
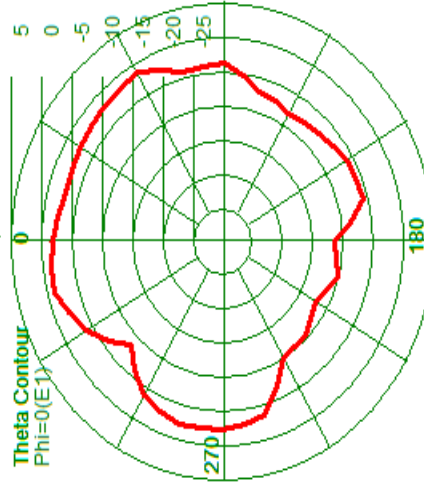
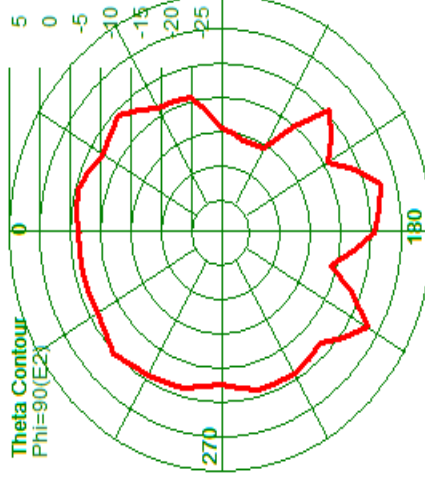
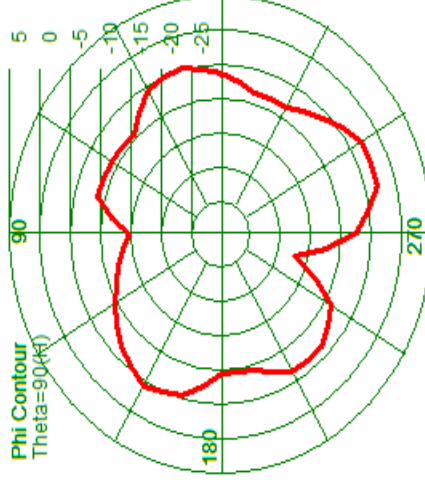
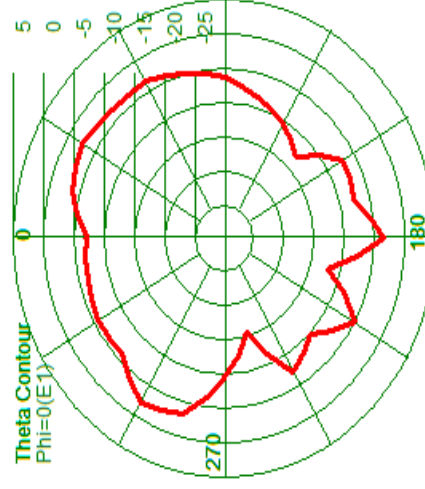


X Axis
Y Axis
Z Axis

5550.00MHz@T45P45



X Axis
Y Axis
Z Axis



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3.Test Result---Active data

Mode	Channel		
2.4G 802.11 g/n			
5G 802.11a/n			

4.Isolation

