



**Signal Plus Technology Co., Ltd.**

**SPECIFICATION FOR APPROVAL**

DATE: 2024.11.04

REV.: A

CUSTOMER: \_\_\_\_\_

CUSTOMER P/N: \_\_\_\_\_

External black WiFi 5GHz antenna with 1.37mm gray cable, L=250mm,  
with RF connector

PART NAME: \_\_\_\_\_

6346F00004

SUPPLIER P/N: \_\_\_\_\_

Q'TY: \_\_\_\_\_

Pcs

Date:	CUSTOMER APPROVED BY		
Approved by	Checked by	Confirmed by	

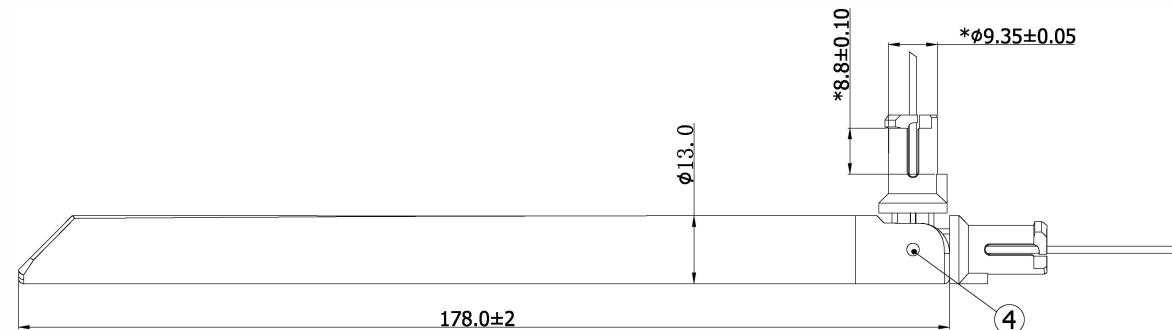
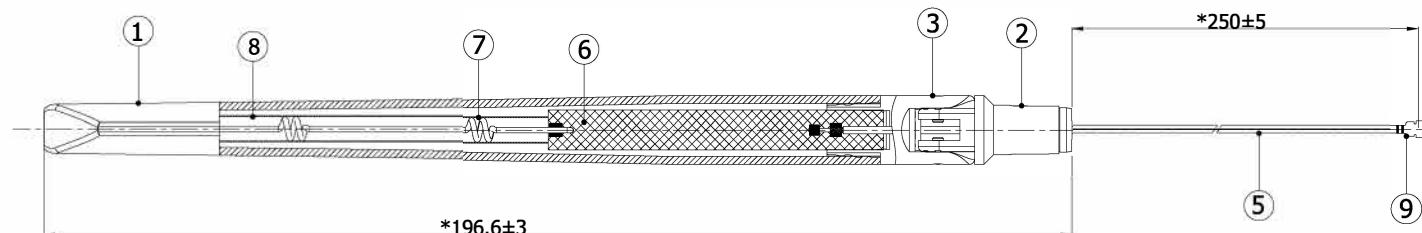
SUPPLIER SIGNATURE		
Approved by	Checked by	Prepared by
Andy		Cindy

ZX-QT-RD-0011-A1

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REV	DATE	DESCRIPTION
X1	05/06-2023	New Issue



1.Specification:

Frequency Rang: 5.15-5.85GHz

VSWR:2.0 Max

Gain:5.0 dBi

2.These Products are in conformity with ROHS 2.0

3.With "\*"Is Important Dimension.

NO	DESCRIPTION	Q'TY	REMARK
9	Conn	1	
8	Tube	1	
7	Spring	1	403-1-0033
6	PCB	1	501-1-0474-X2
5	Cable	1	φ1.37 Cable, Gray,
4	Rivet	2	POM, Color:Black
3	Antenna Base	1	PC, Color:Black
2	Antenna Base	1	PC/PC+PBT, Color:Black, anti-wind
1	Antenna Body	1	TPEE, Color:Black

CUSTOMER'S SINGATURE	XXX.	±3.0	APPROVED	CUSTOMER:		
	XX.	±2.0		PART NO:		
	X.	±1.0	CHECKED	PART NAME: RF Antenna Assembly		
	.X	±0.5		Z&X P/NO: 6346F00004		
	.XX	±0.2	DRAWING	YZQ	REV	UNIT
					FILE:	
					X1	mm
					SHEET: 1/1	



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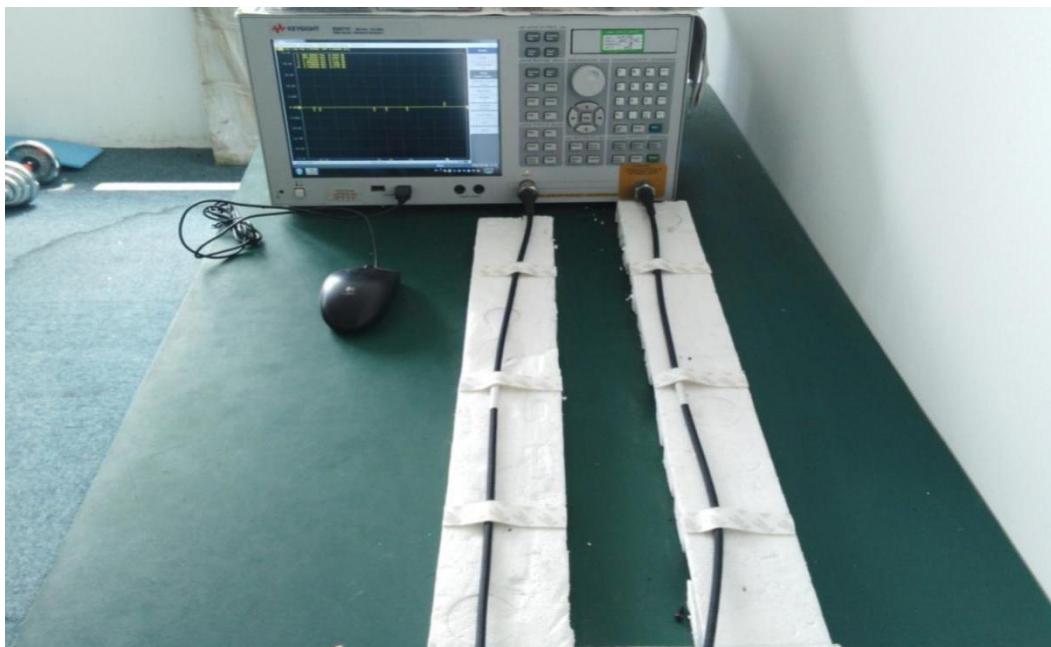
## Antenna Test Report

## 1. RF Fixture Experiment

### 1.1 Test Setup

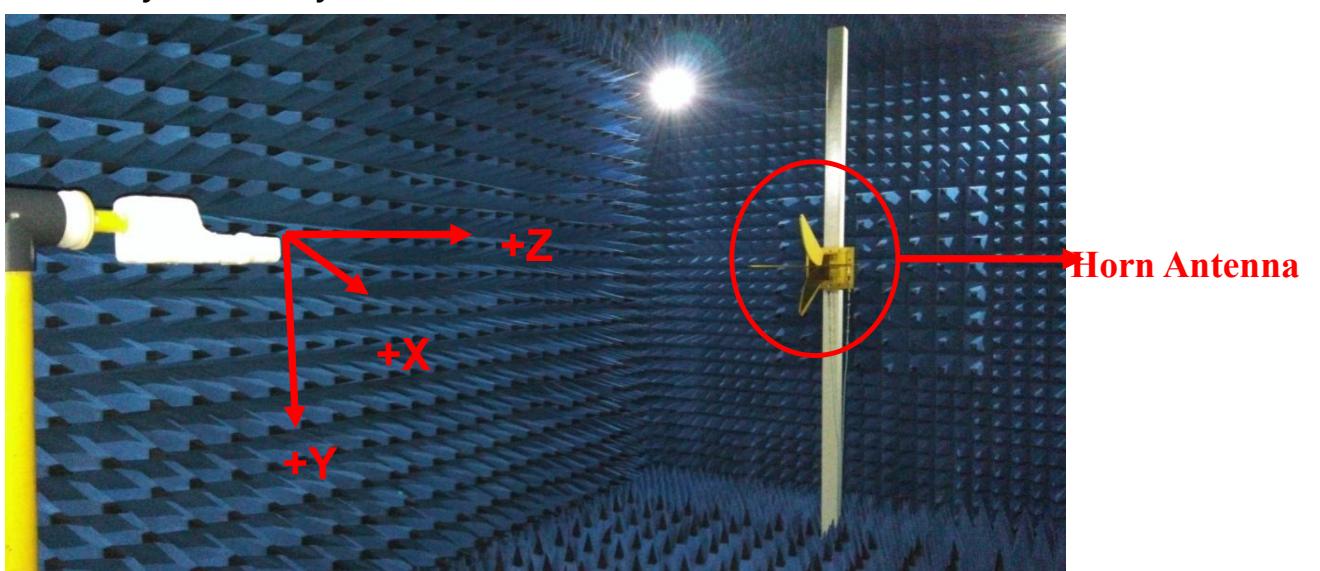
#### 1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.

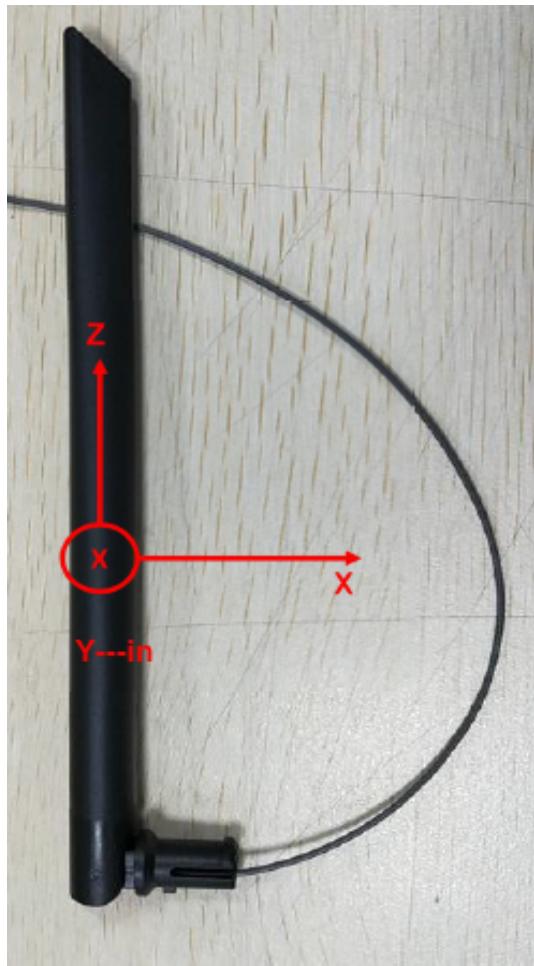


#### 1.1.2 Anechoic Chamber Test Setup

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



## 2.Antenna Solution

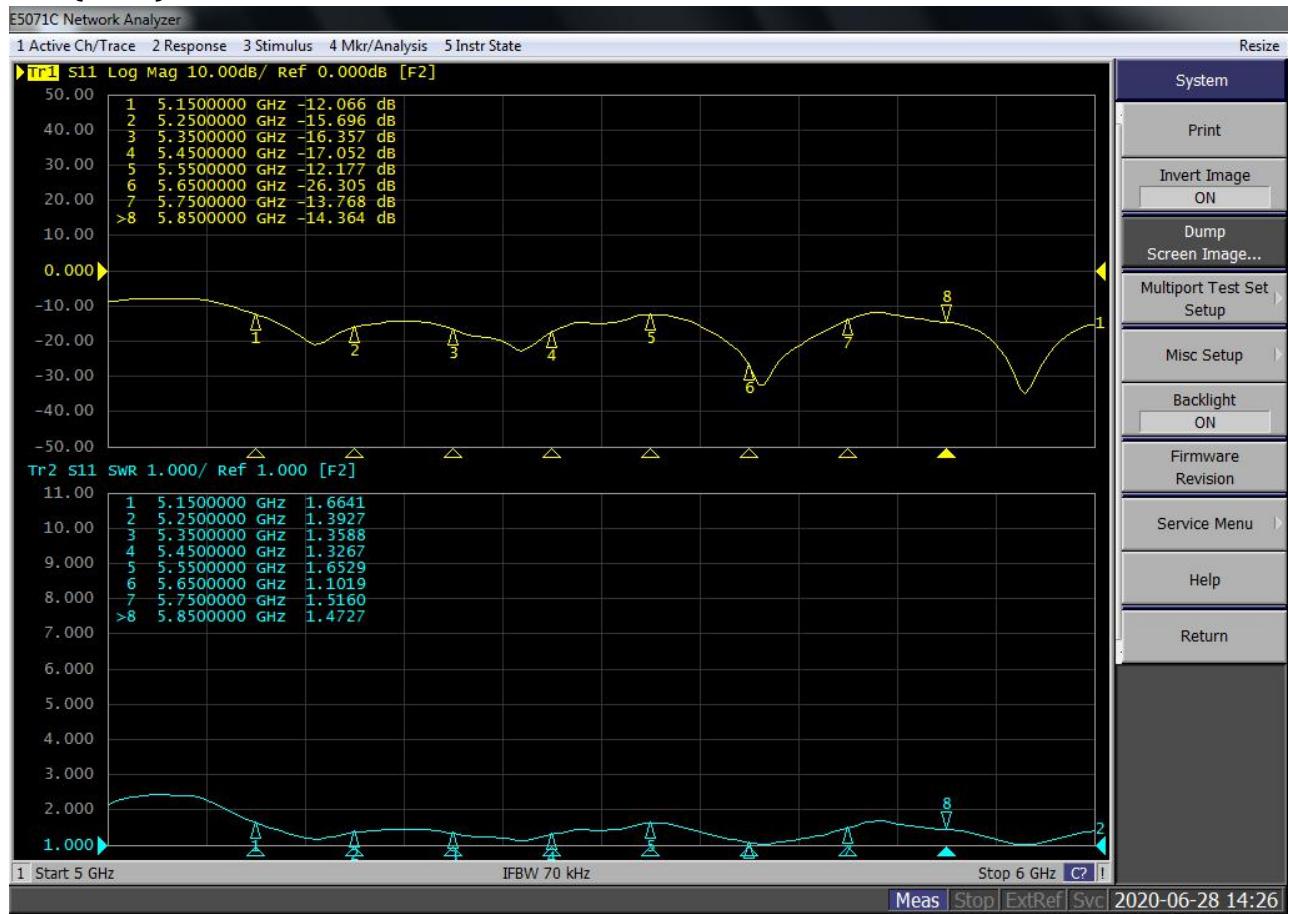


### Data Preview

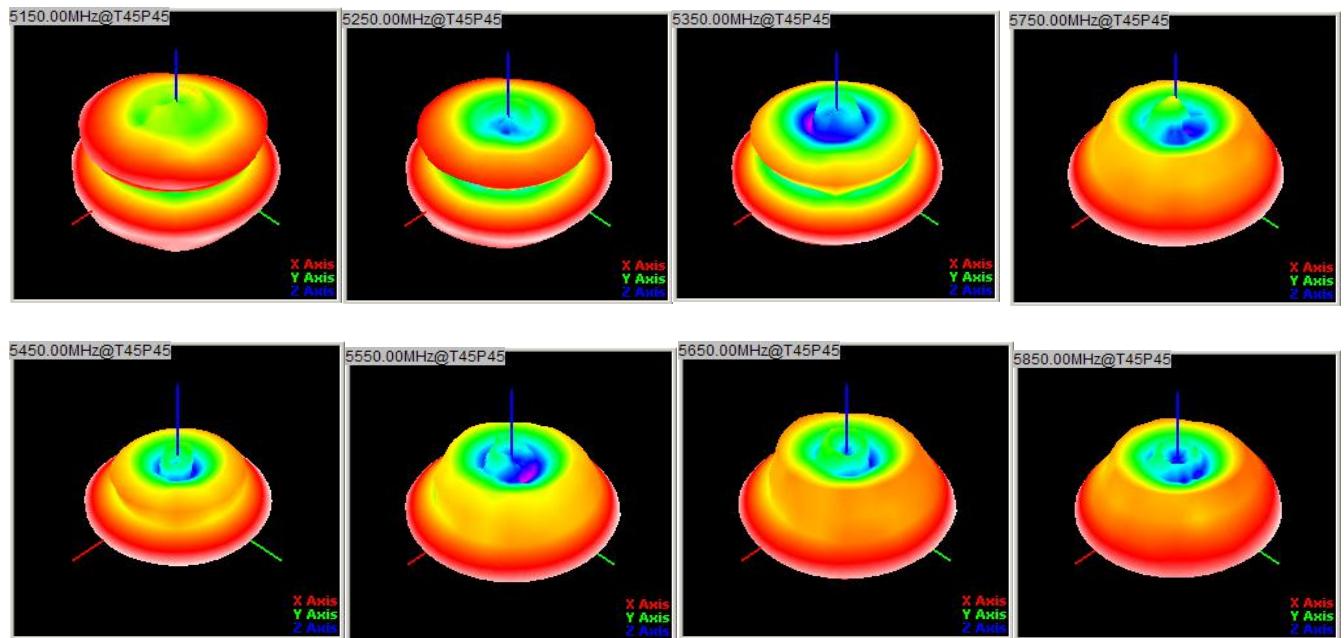
5.8G:

Freq.(MHz)	5150	5250	5350	5450	5550	5650	5750	5850
VSWR	1.66	1.39	1.35	1.32	1.65	1.10	1.51	1.47
Gain(dBi)	4.72	4.81	4.85	4.89	4.82	4.82	4.79	4.71
Eff.	72.2%	71.3%	71.3%	71.3%	71.7%	72.8%	72.3%	70.1%

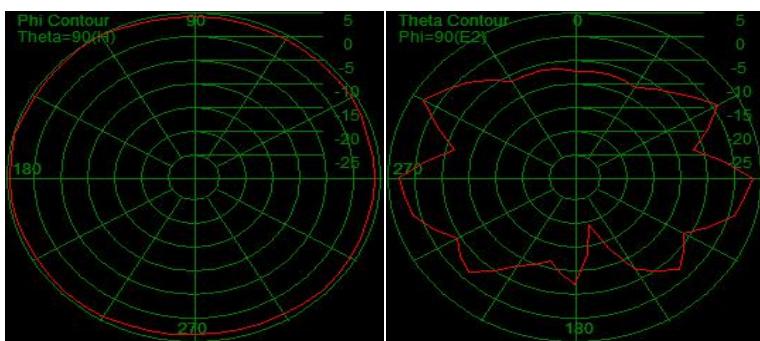
# S11(5.8G)



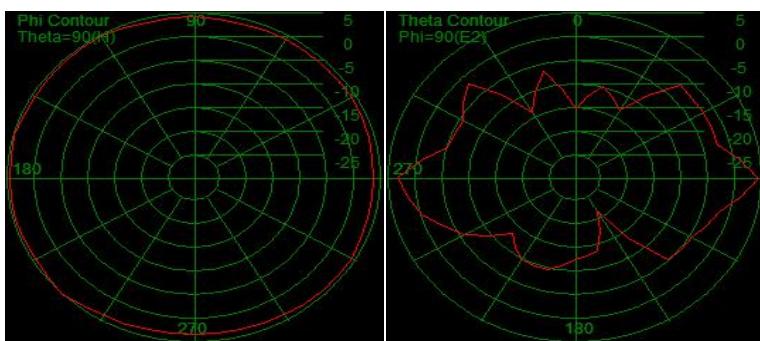
## Radiation patterns:3D



## Radiation patterns:2D 5150MHz



5550MHz



5850MHz

