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

SPECIFICATION FOR APPROVAL

DATE: 2024.07.01

REV.: A

CUSTOMER: HuiDa

CUSTOMER P/N: 129-000254

PART NAME: PCB wifi antenna 2.4G &5G

SUPPLIER P/N: 6356F00001

Date: Q'TY: Pcs

CUSTOMER APPROVED BY		
Approvaled by	Checked by	Confirmed by

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Antenna Test Report

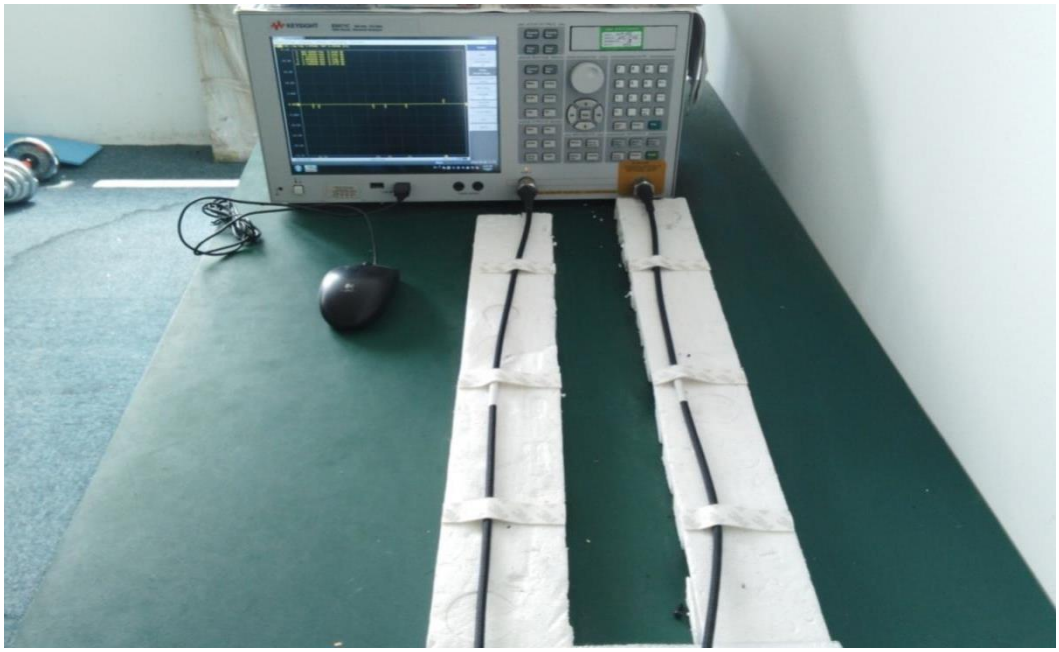
Tel:021-54266190 Fax:021-54266191 Web:www.zxsignal.com

1. RF Fixture Experiment

1.1 Test Setup

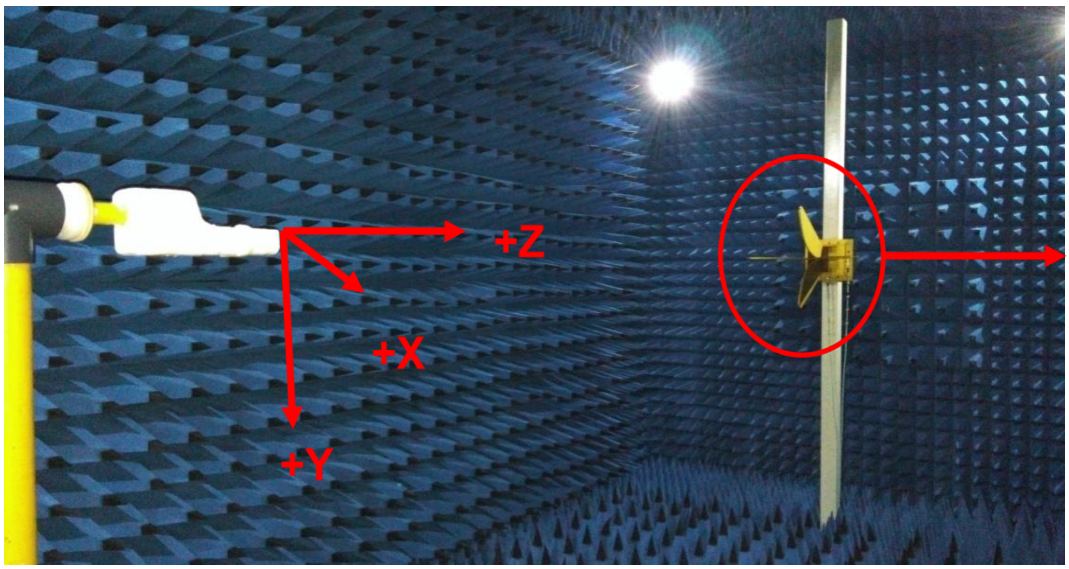
1.1.1 VNA Test Setup

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.

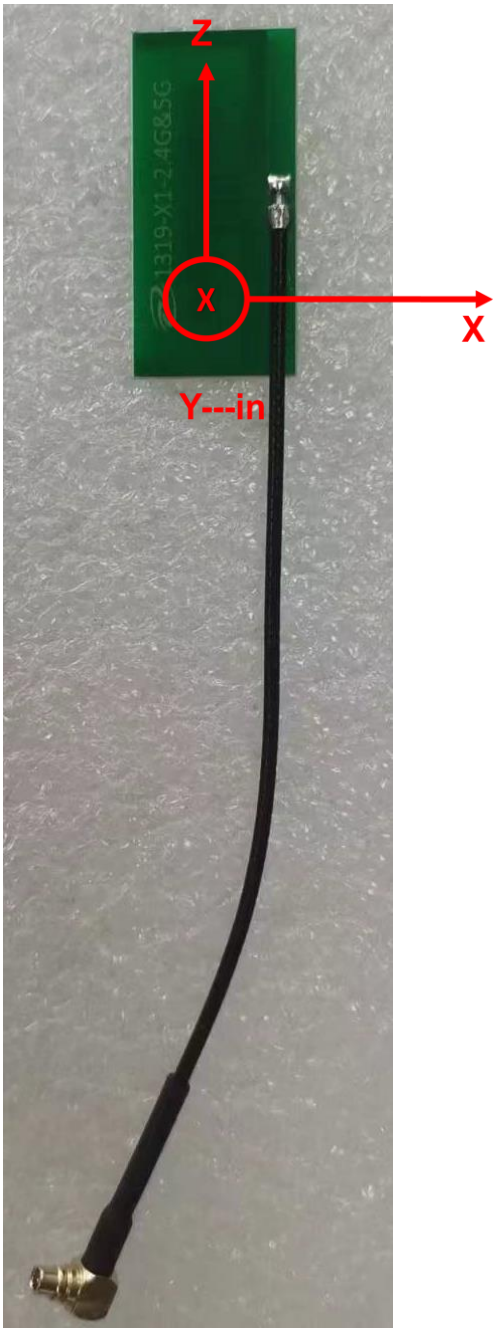


1.1.2 Anechoic Chamber Test Setup

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:7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



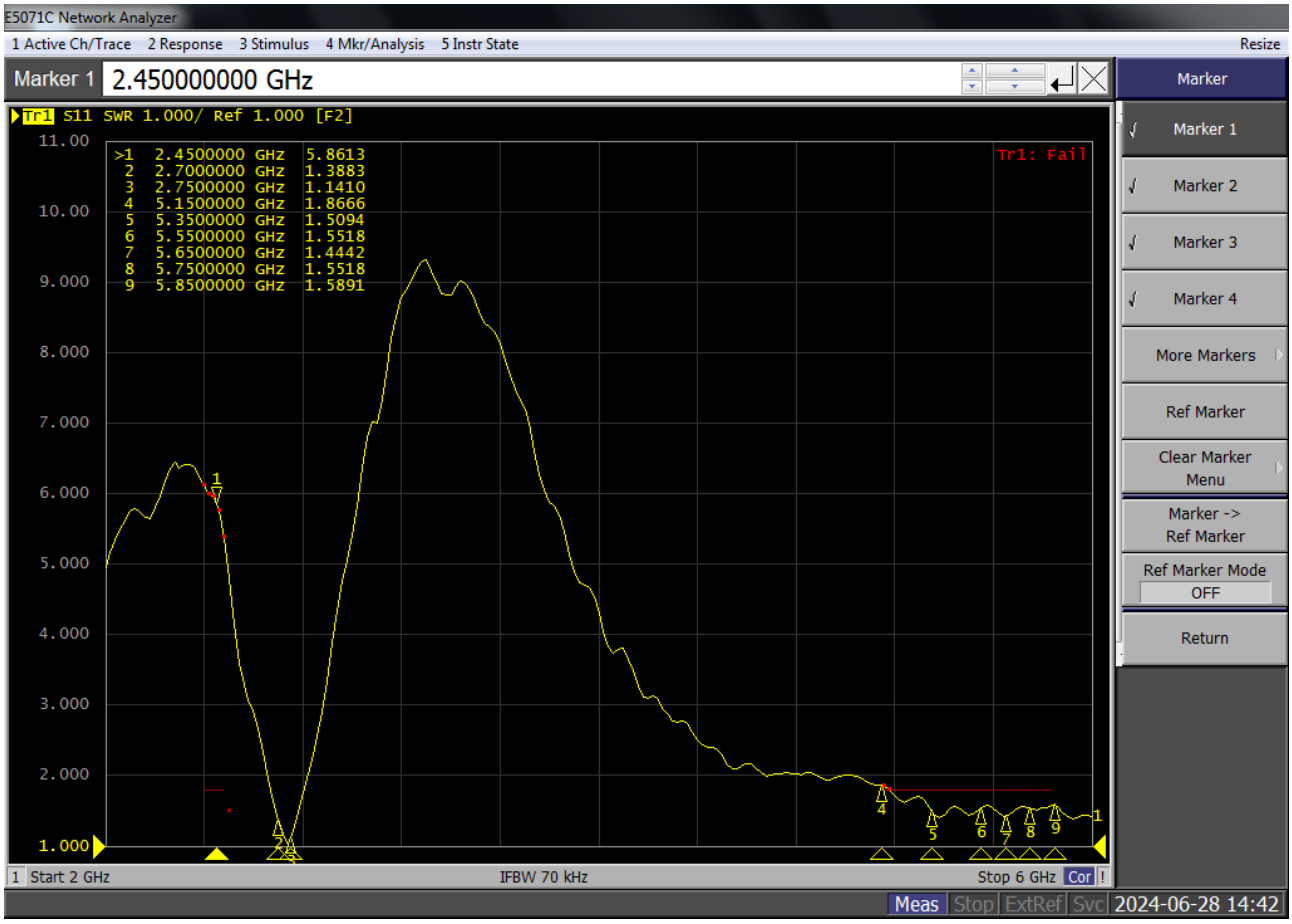
2.Antenna Solution



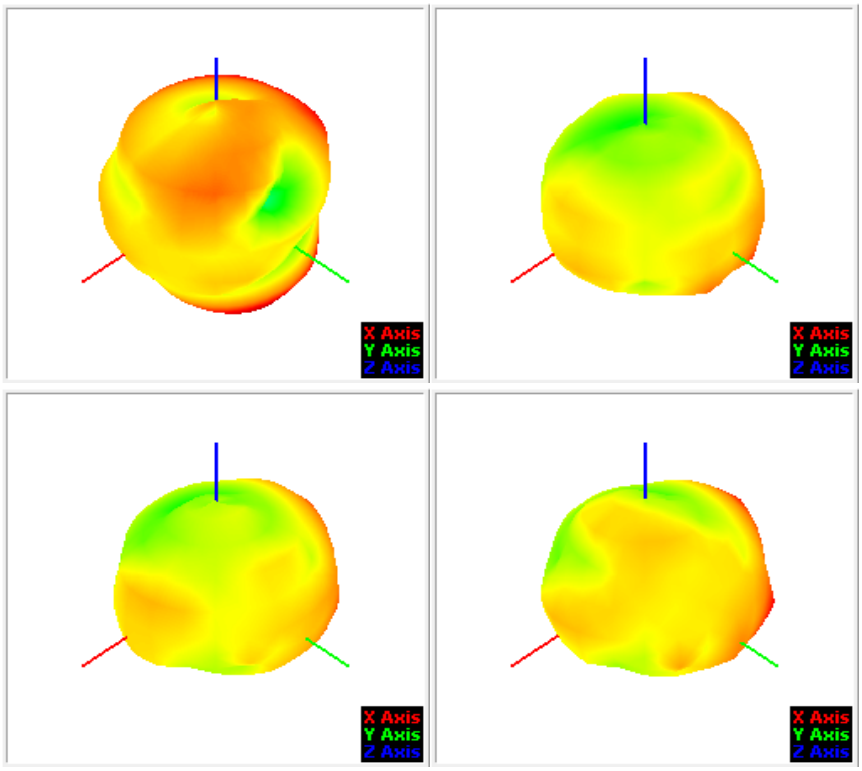
Data Preview

Freq.(MHz)	2450	5150	5350	5550	5650	5750	5850
VSWR	5.86	1.86	1.50	1.55	1.44	1.55	1.58
Gain(dBi)	3.99	3.04	4.19	3.68	3.88	4.34	4.64
Eff.%	65.6	68.4	78.9	68.2	68.2	69.5	75.1

S11



Radiation patterns:3D(2450/5150/5550/5850MHz)



Radiation patterns:2D(2450/5150/5550/5850MHz)