



東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

客户名称 Customer: gongjin

客户料号 Customer Material number: 8000000022261341

物料名称 Material name: Internal Antenna

物料型号 Material type: 400621-22499-01

物料描述 Material description: Internal Antenna, 3dBi@5.15GHz, 50Ω, FR4, 17.5*10*0.8mm, L=130mm, RF113, Black, IPEX, EmP220-B-I130 (B) (Xinsheng)

版 本 Edition: V0

供 应 商 承 认 The supplier acknowledge	
工 程 Engineering	批 准 Approval
袁裕深	叶晔
盖章签署 Signed	
日 期 Date	2021-4-12

供应商名称 Supplier name: 东莞市新盛电子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

供应商地址 Supplier Address: 东莞市大岭山镇大塘朗管理区六村

6Village, Datanglang District, Dalingshan, Dongguan, Guangdong, PRC

电 话 Telephone: 886-769-85639708 85639728

传 真 Fax: 886-769-85652960

网 址 Website: <http://www.hsinsec.com>

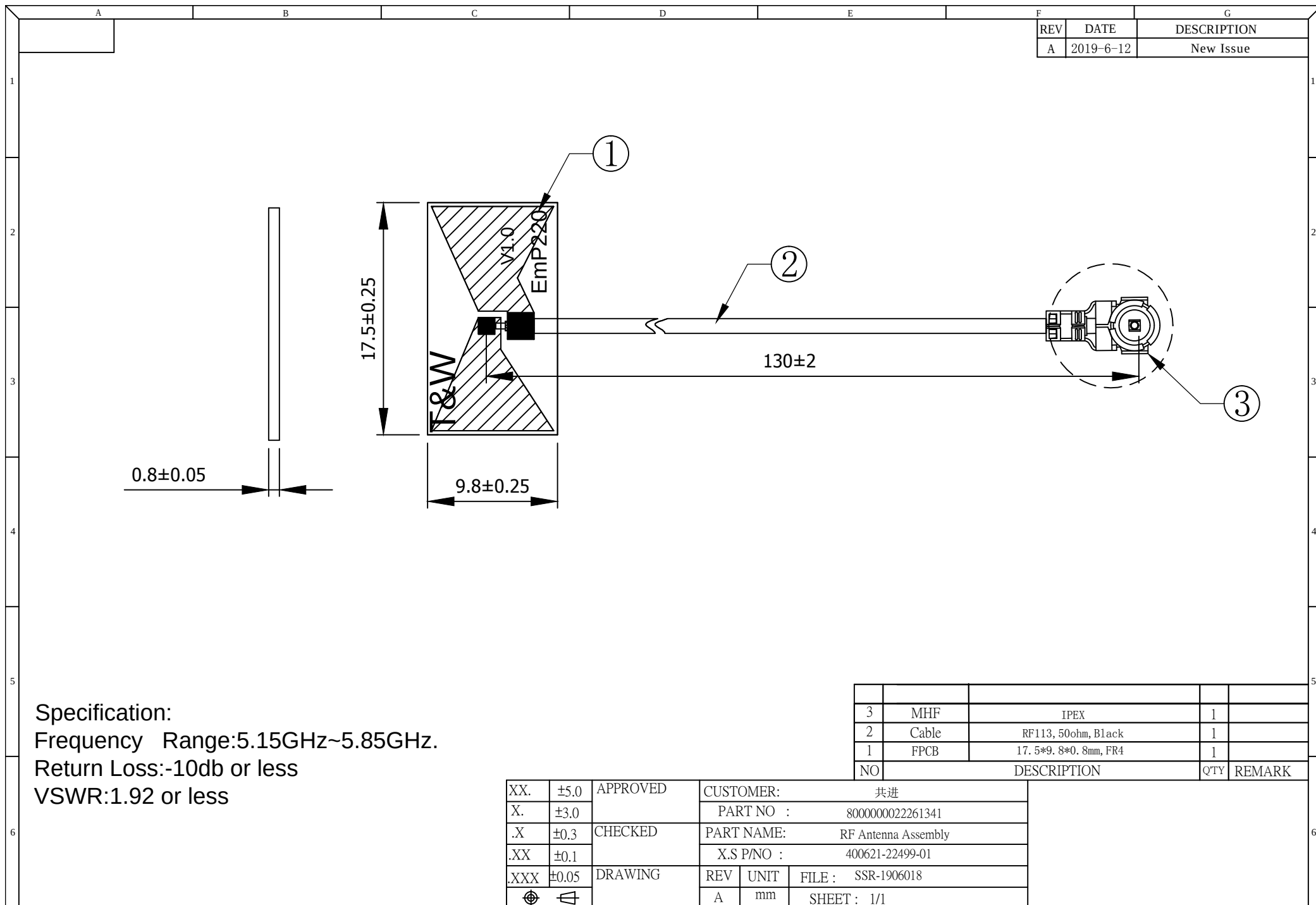
电子邮箱 E-mail: zll@hsinsec.com

[illegible]



Specification

1. Antenna Electrical Properties:		
1.1	Frequency	5.15-5.85GHz
1.2	Impedance	50 ohm Nominal
1.3	VSWR	1.92:1 Max
1.4	Return Loss	-10 dB Max.
1.5	Polarization	Line
1.6	Gain	3.15dBi
2. Physical Properties:		
2.1	Operating Temperature	-30~+60℃
2.2	Storage Temperature	-30~+70℃
2.3	Humidity	≤95℃ @ 25℃
2.4	Cable Length	130mm
2.5	Cable	1.13 Coaxial Cable
2.6	Connector	IPEX

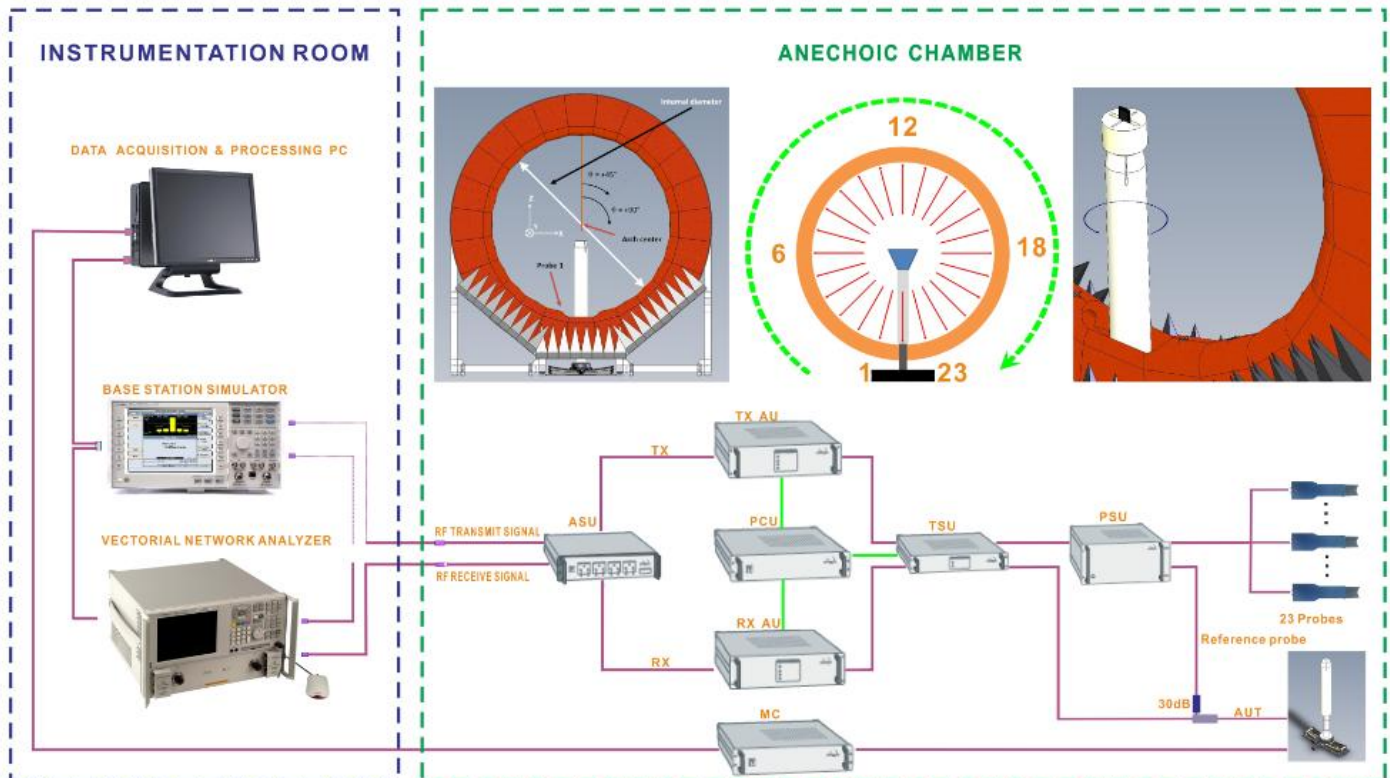




5Test Results

Antenna

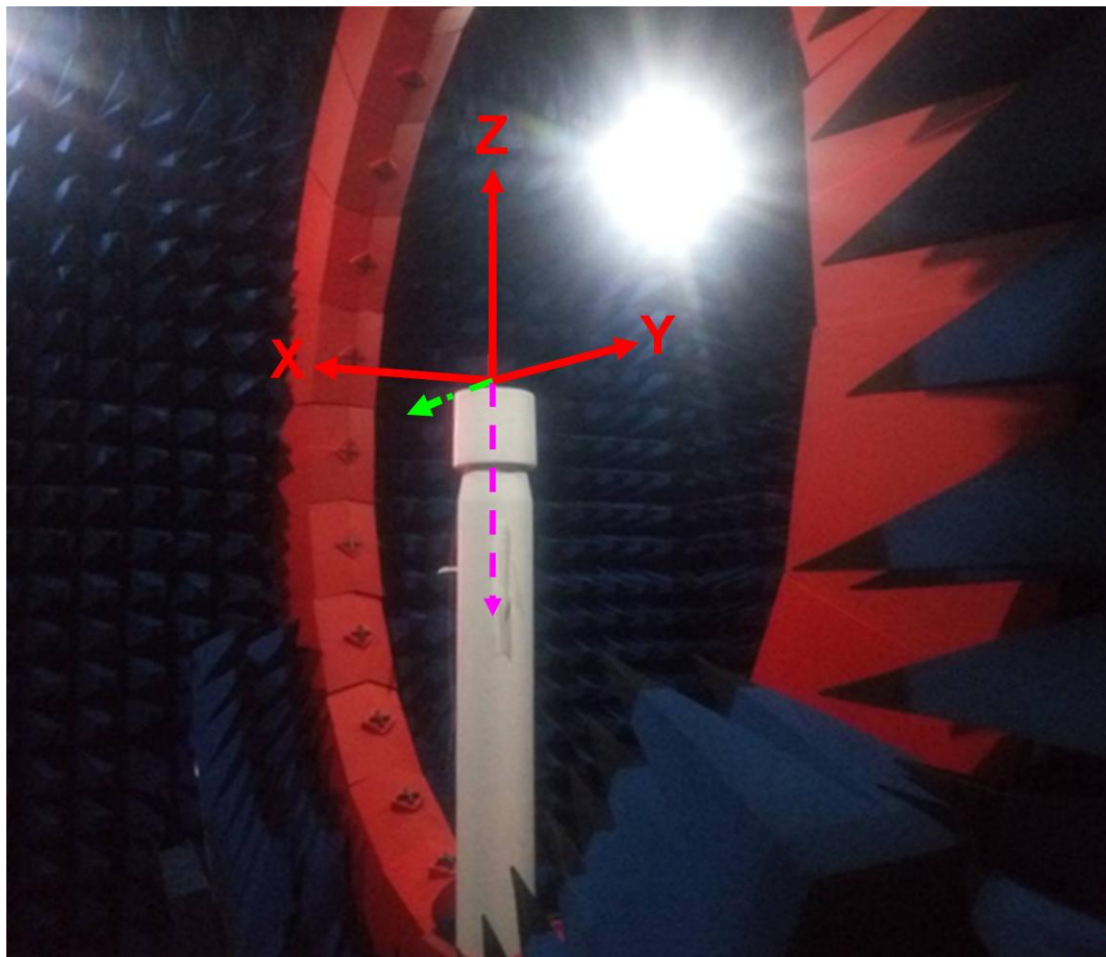
1 Test Setup





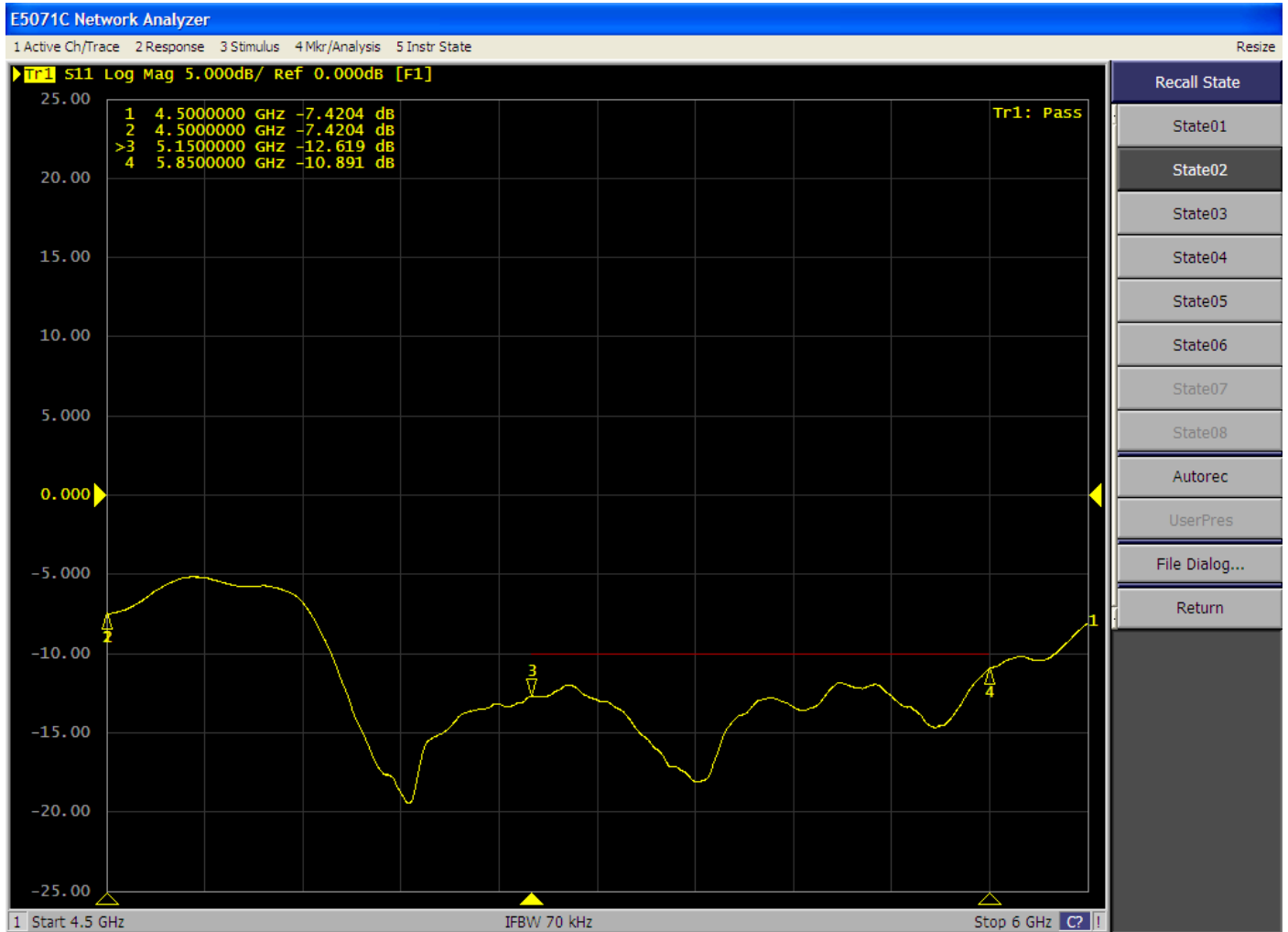
東莞市新盛電子有限公司
Dongguan City Xinsheng Electronics Co.,Ltd

Configuration and Coordinate





2. Antenna S-parameter test results





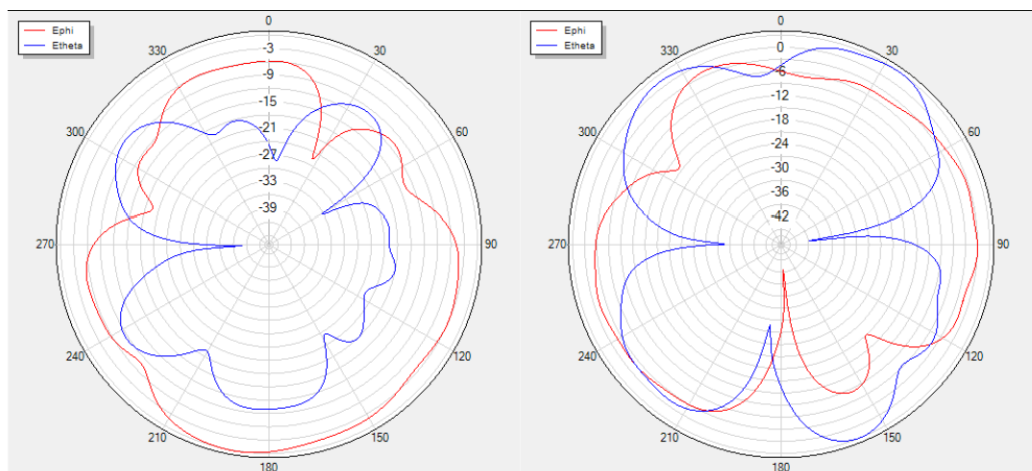
東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

3. 2D Radiation patterns test results (Passive Antenna)

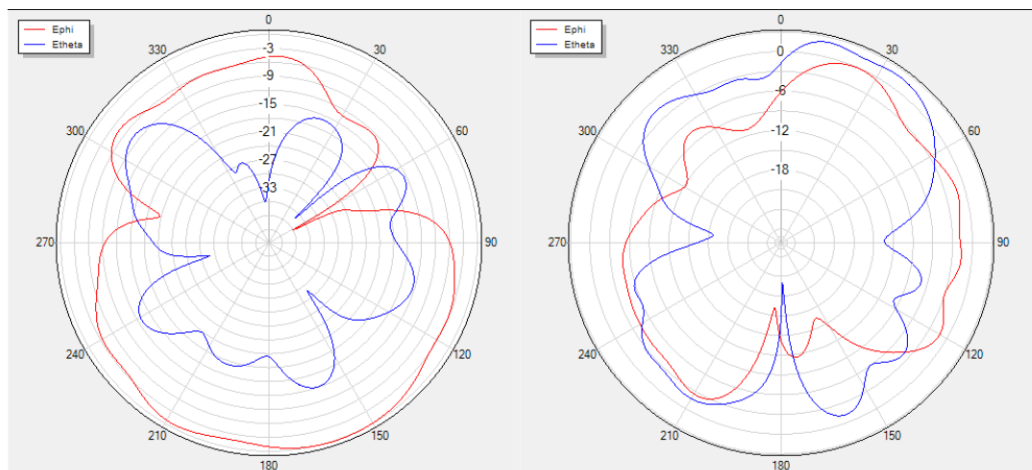
H Theta=90 freq=5150MHz

V Phi=90 freq=5150MHz



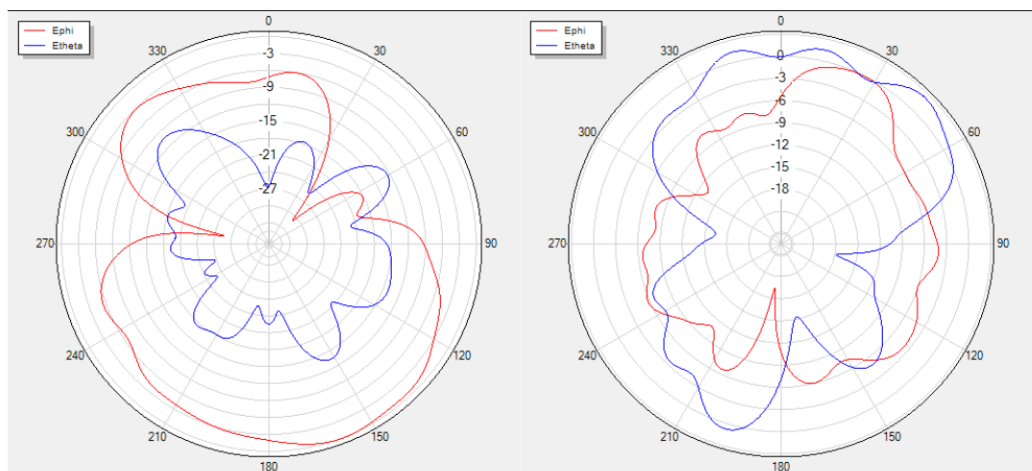
H Theta=90 freq=5550MHz

V Phi=90 freq=5550MHz



H Theta=90 freq=5850MHz

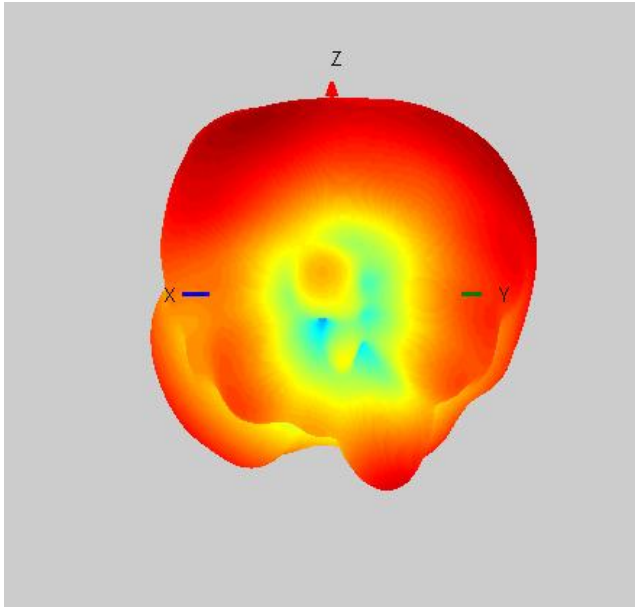
V Phi=90 freq=5850MHz



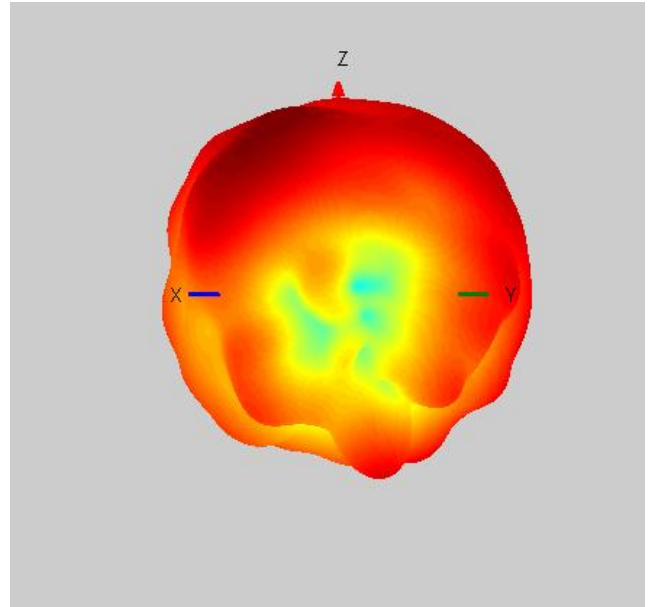


4. 3D Radiation patterns test results (Passive Antenna)

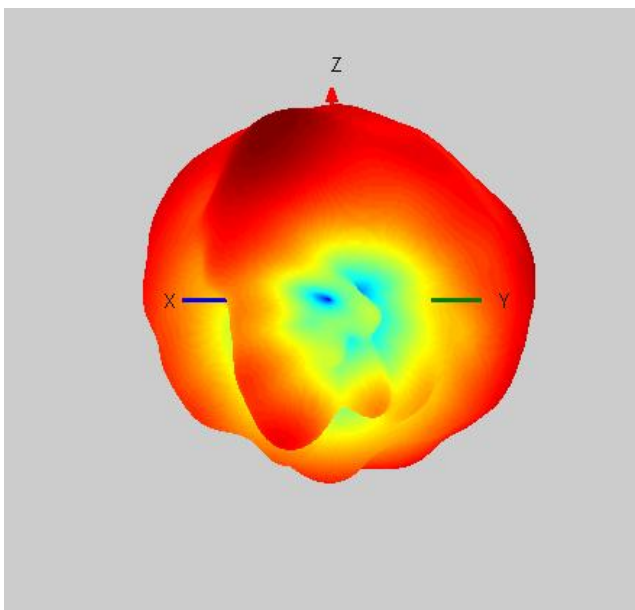
5150MHZ



5550MHZ



5850MHZ





5.Test Value

增益和效率 gain @efficiency		
frequency 频率(Hz)	gain 增益(dBi)	efficiency 效率
5150M	3.01	72%
5350M	3.11	74%
5550M	3.14	72%
5750M	3.15	73%
5850M	3.05	73%