



东莞市新盛电子有限公司

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

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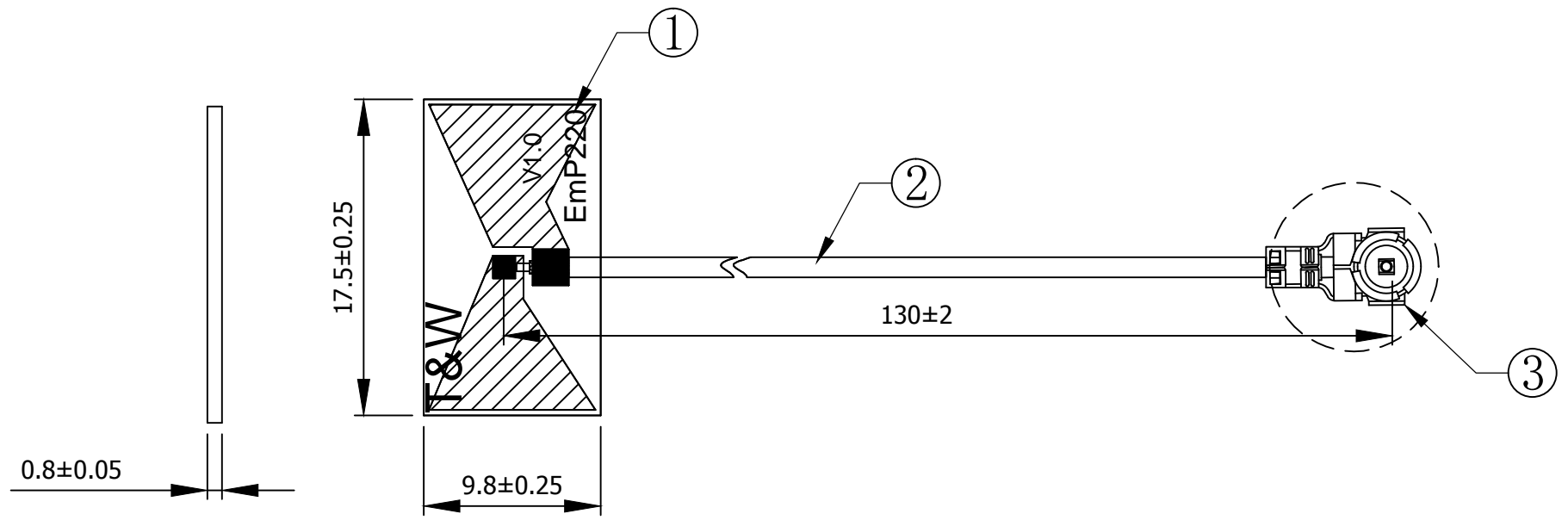
电子邮箱 E-mail: zll@hsinec.com



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°C
2.2	Storage Temperature	-30~+70°C
2.3	Humidity	≤95% @ 25°C
2.4	Cable Length	130mm
2.5	Cable	1.13 Coaxial Cable
2.6	Connector	IPEX

REV	DATE	DESCRIPTION
A	2019-6-12	New Issue



Specification:
 Frequency Range:5.15GHz~5.85GHz.
 Return Loss:-10db or less
 VSWR:1.92 or less

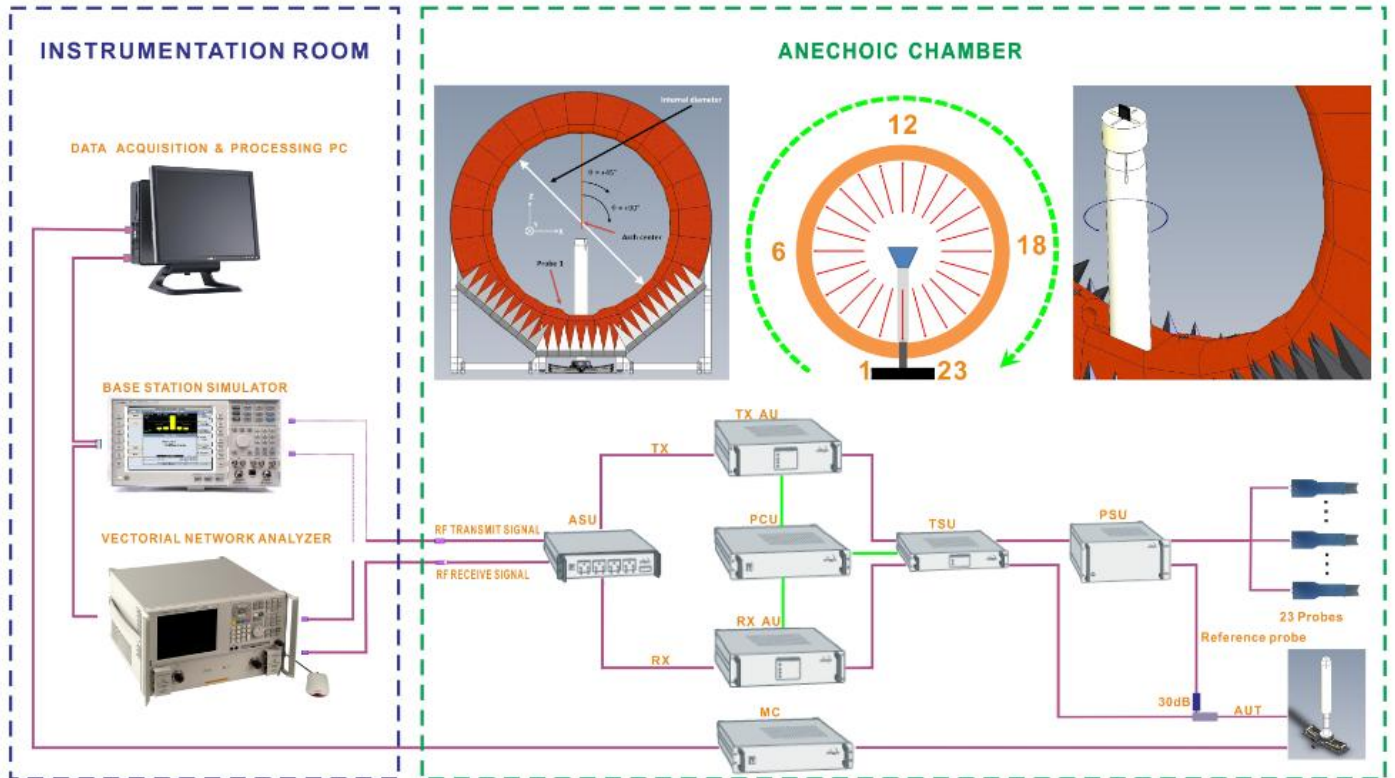
NO	DESCRIPTION	QTY	REMARK
3	MHF IPEX	1	
2	Cable RF113, 50ohm, Black	1	
1	FPCB 17.5*9.8*0.8mm, FR4	1	

XX.	±5.0	APPROVED	CUSTOMER: 共进		
X.	±3.0		PART NO : 800000022261341		
.X	±0.3	CHECKED	PART NAME: RF Antenna Assembly		
.XX	±0.1		X.S P/NO : 400621-22499-01		
.XXX	±0.05	DRAWING	REV	UNIT	FILE : SSR-1906018
⊕	⚠		A	mm	SHEET : 1/1



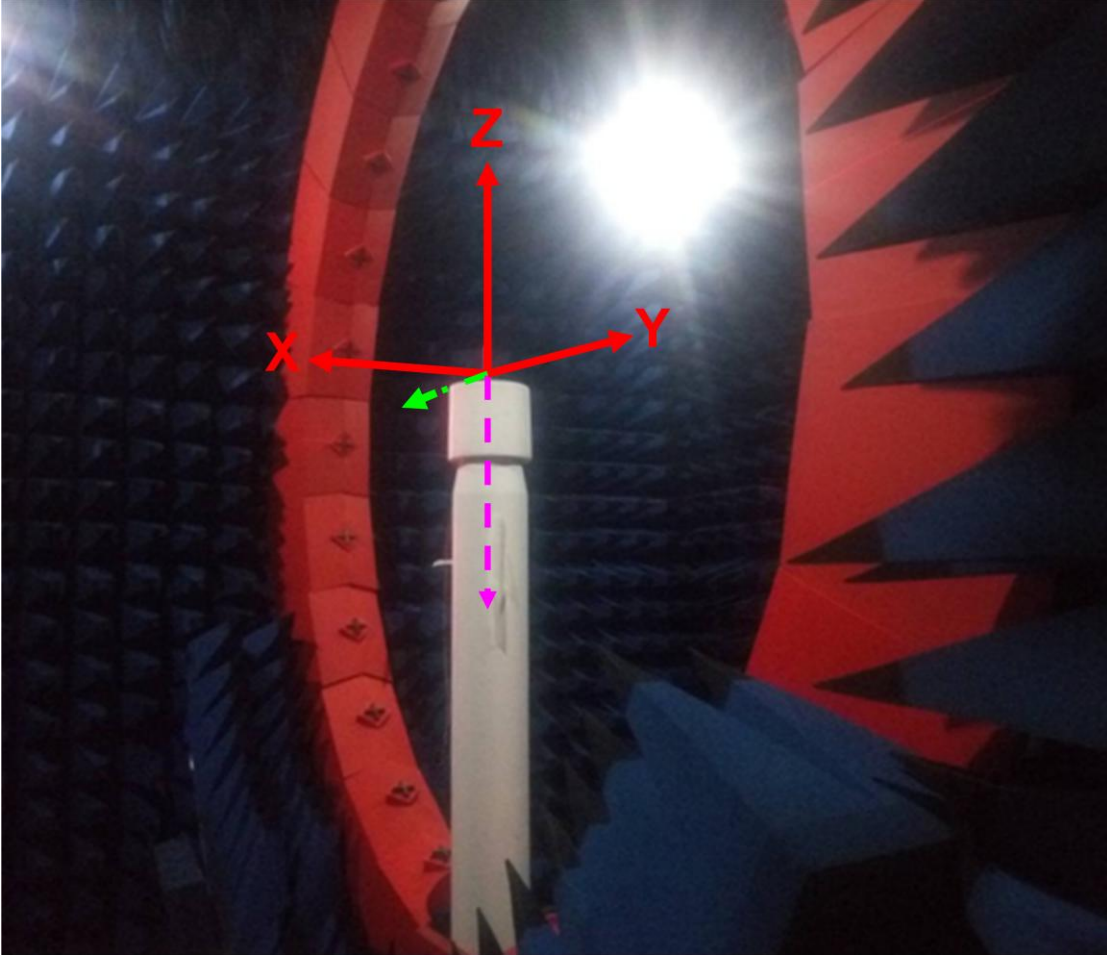
5Test Results

Antenna 1 Test Setup



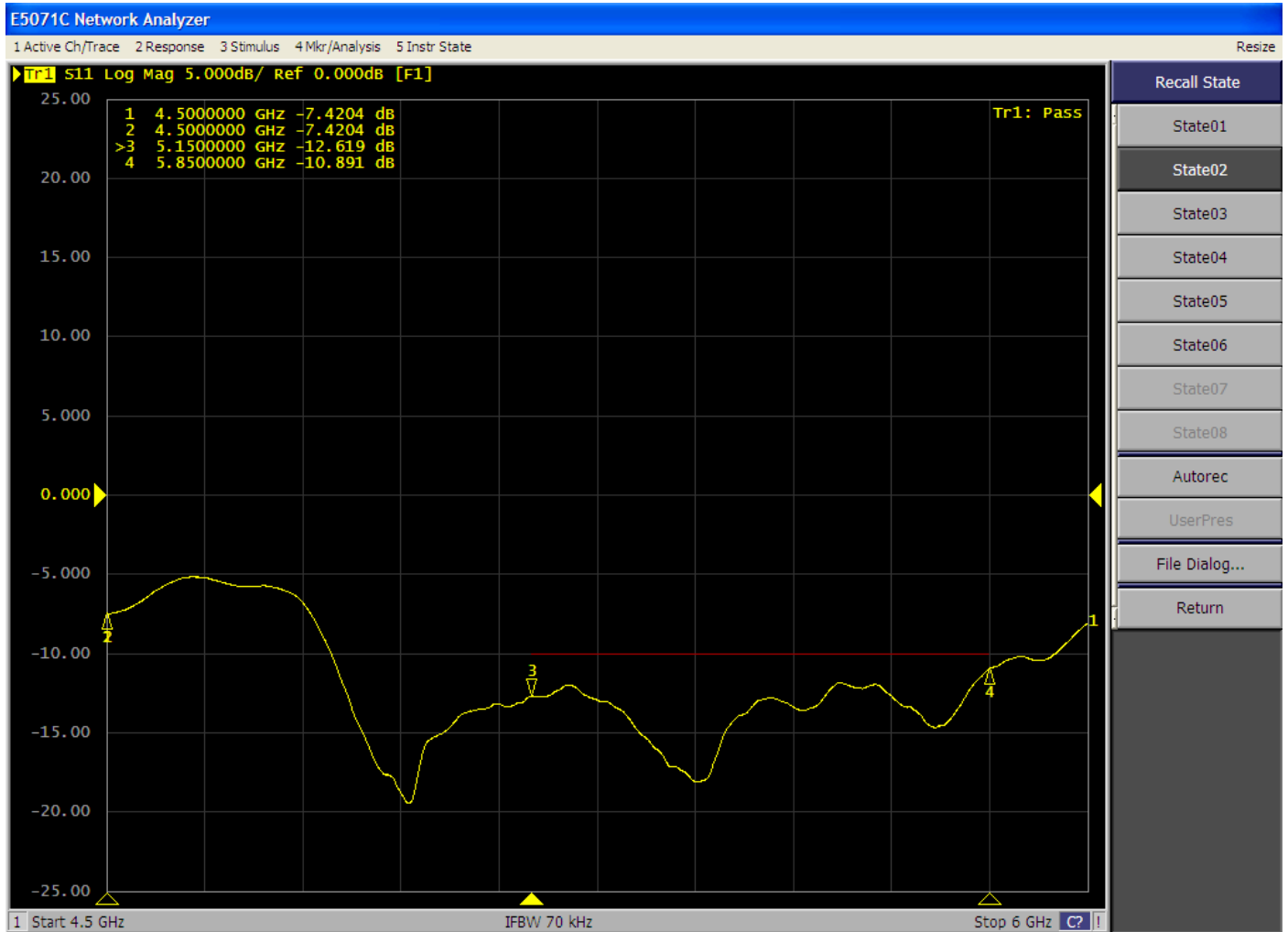


Configuration and Coordinate





2. Antenna S-parameter test results



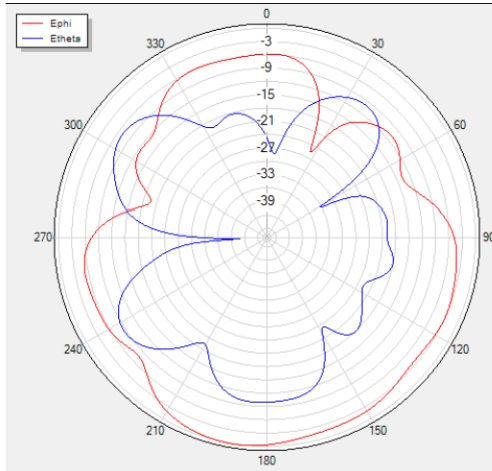


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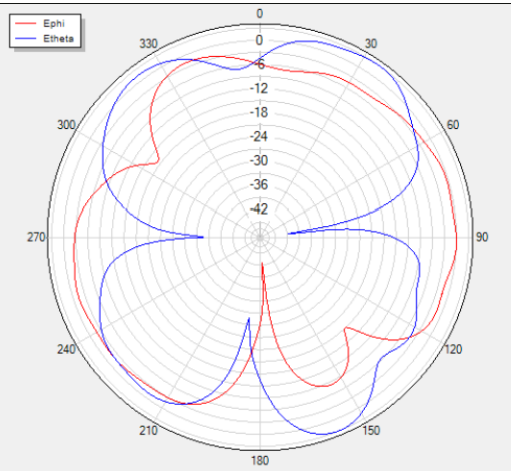
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3. 2D Radiation patterns test results (Passive Antenna)

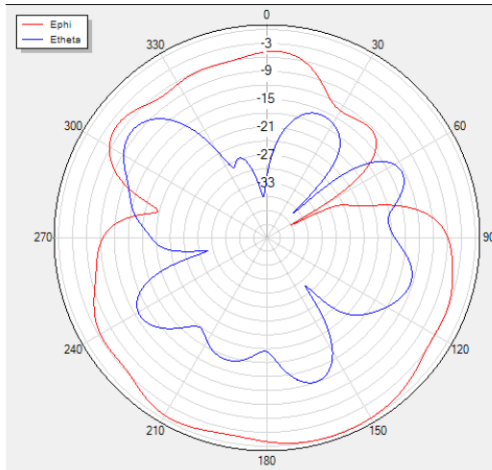
H Theta=90 freq=5150MHz



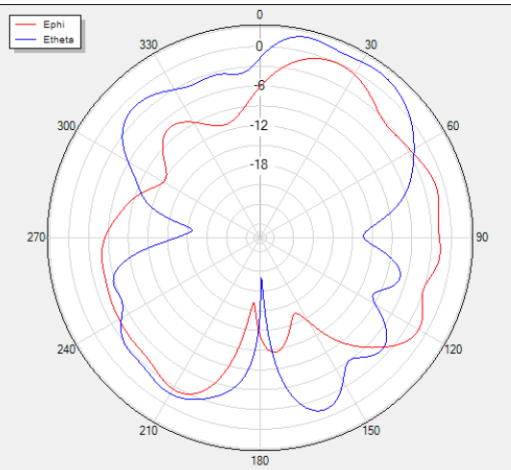
V Phi=90 freq=5150MHz



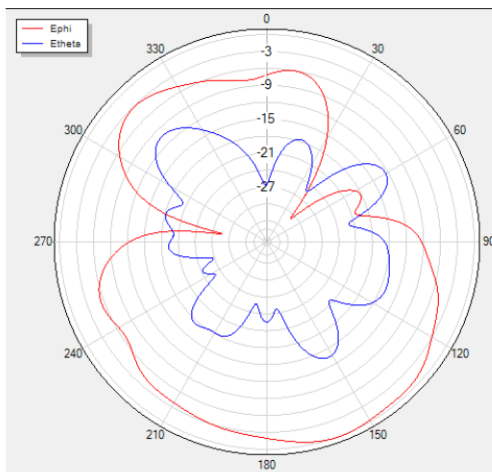
H Theta=90 freq=5550MHz



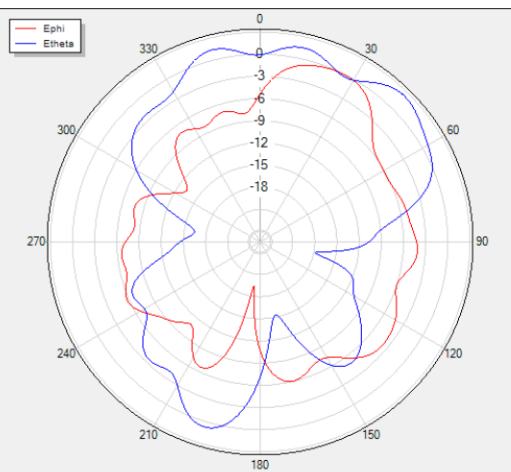
V Phi=90 freq=5550MHz



H Theta=90 freq=5850MHz



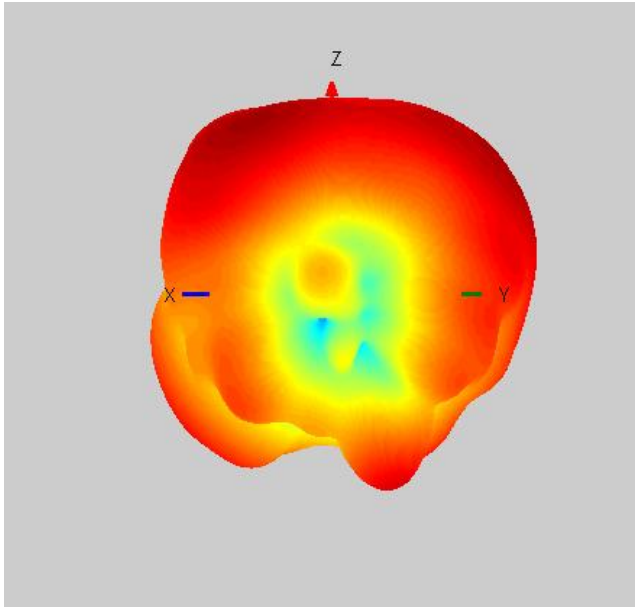
V Phi=90 freq=5850MHz



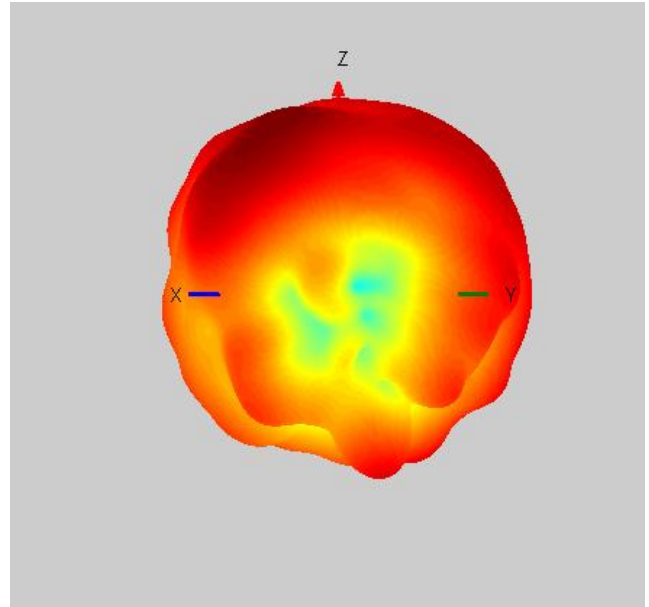


4. 3D Radiation patterns test results (Passive Antenna)

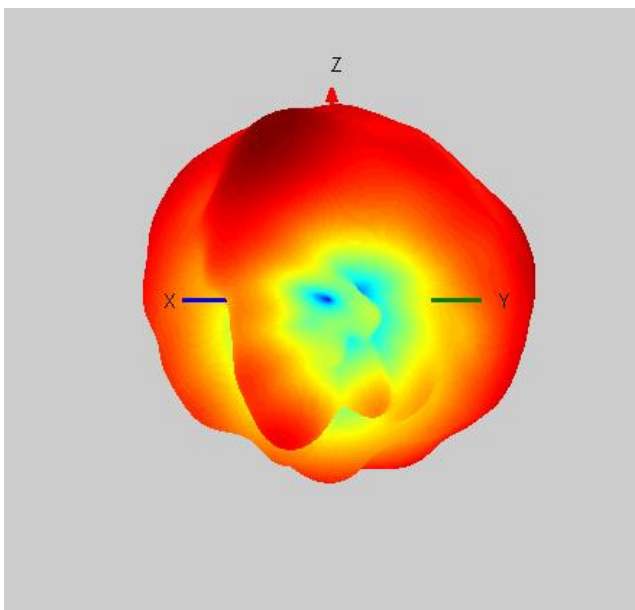
5150MHZ



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%