



客户名称 Customer: gongjin

客户料号 Customer Material number: 8000000044711341

物料名称 Material name: Internal

物料型号 Material type: 400621-22754-01

物料描述 Material description: Internal Antenna, 3dBi@2.4GHz&5GHz, 50Ω, KB-6160, 30*15*0.8mm, L=60mm, RF113, Gray, IPEX, Emp349c-B-160(G) (Xinsheng), TW-researched

版 本 Edition: V0

供 应 商 承 认 he supplier acknowledge	
工 程 Engineering	批 准 Approval
袁裕深	叶晔
盖章签署 Signed	
日 期 Date	2022-11-14

供应商名称 Supplier name: 東莞市新盛電子有限公司

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Revised History

[illegible]

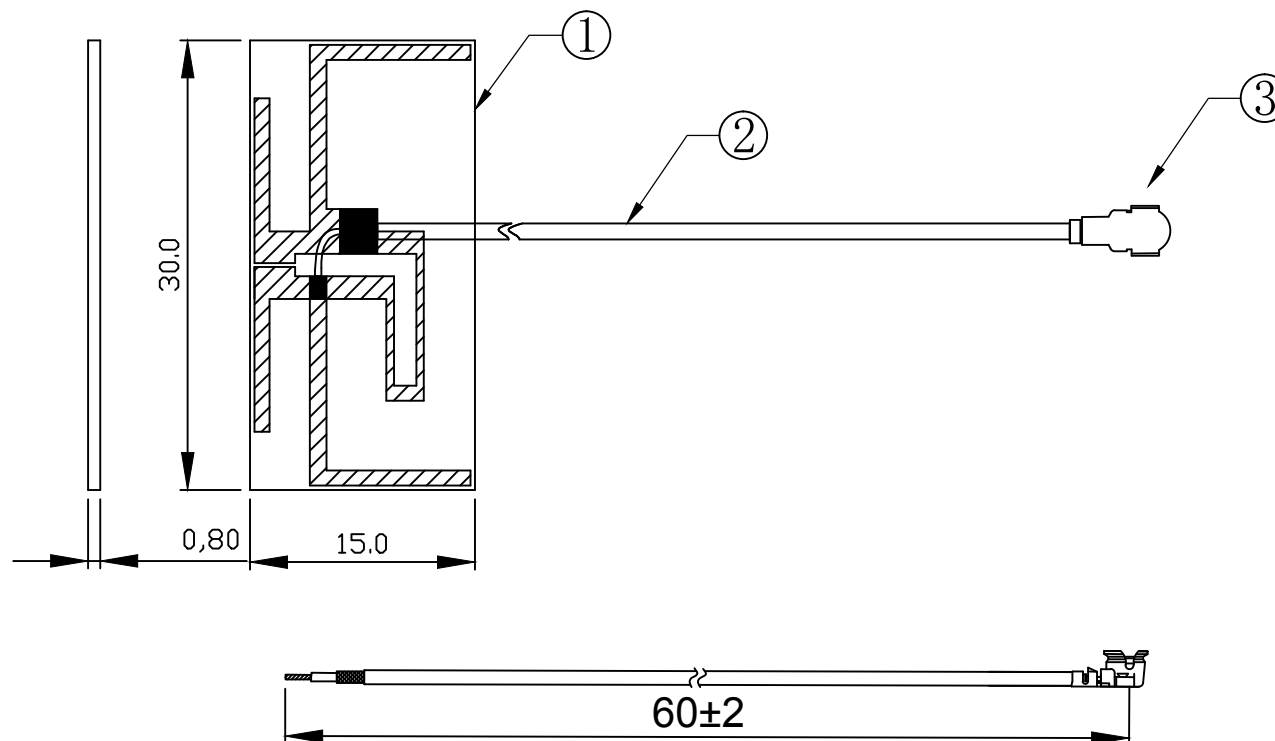


Specification

1. Antenna Electrical Properties:		
1.1	Frequency	2.4~2.5GHz/5.15~5.85GHz
1.2	Impedance	50 ohm Nominal
1.3	VSWR	1.92:1 Max
1.4	Return Loss	10 dB Min.
1.5	Polarization	Line
1.6	Gain	3dBi
2. Physical Properties:		
2.1	Operating Temperature	-30~+60°C
2.2	Storage Temperature	-30~+70°C
2.3	Humidity	≤95°C @ 25°C
2.4	Cable Length	60mm
2.5	Cable	1.13 Coaxial Cable
2.6	Connector	IPEX

ROHS

REV	DATE	DESCRIPTION
A	2022-10-28	New Issue



铜箔加黑油

馈线焊盘, 露铜箔

Specification:

Frequency Range: 2.4~2.5GHz
& 5.15~5.85GHz.

Return Loss: -10db or less

VSWR: 1.92 or less

Gain: 3.0dBi

NO	DESCRIPTION	QTY	REMARK
3	MHF IPEX	1	
2	Cable RF113, 50ohm, gray	1	
1	PCB 30*15*0.8mm, FR4	1	

XX.	±5.0	APPROVED
X.	±3.0	
.X	±0.25	CHECKED
XX	±0.08	
XXX	±0.05	DRAWING
⊙	⊙	

CUSTOMER: 共进		
PART NO :	8000000044711341	
PART NAME:	RF Antenna Assembly	
X.S P/NO :	400621-22754-01	
REV	UNIT	FILE :
	mm	SHEET : 1/1

CUSTOMER DRAWING

Rev.	ECN No.	DESCRIPTION
A	2018/08/27	New Issue

Notes:

- 1:Material and finish(Plating)
 △ Housing: PBT (Black) UL94V-0.
 △ Shell: Phosphor bronze: Au over Ni
 △ Contact: Phosphor bronze: Au over Ni
- 2:Impedance: 50 OHM Nominal
- 3:Frequency Rating: DC TO 6 GHZ
- 4:VSWR: DC -- 3GHz 1.3max.
3 GHz -- 6GHz 1.5max.
- 5:Cable retention force 10N min.
- 6:The harmful material of this part should be compliance with CCT document QW-QA-10.

PRODUCT NUMBER ORDER

ANC 0 1 13 L - 1 2 1
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Production Code :
ANC: ANTENNA PLUG for cable
- ② Height after mated broad end :
0 : SPEC.
- ③ Mitch Cable ϕ :
113: Cable ϕ 1.13mm
- ④ Shell Gold Plating Thickness :
L: Plating Gold 0.5 u" min.
- ⑤ Product design generation:
1: First generation.
- ⑥ Customer identification code:
2: Another CUS
- ⑦ Color of Housing:
1: Black

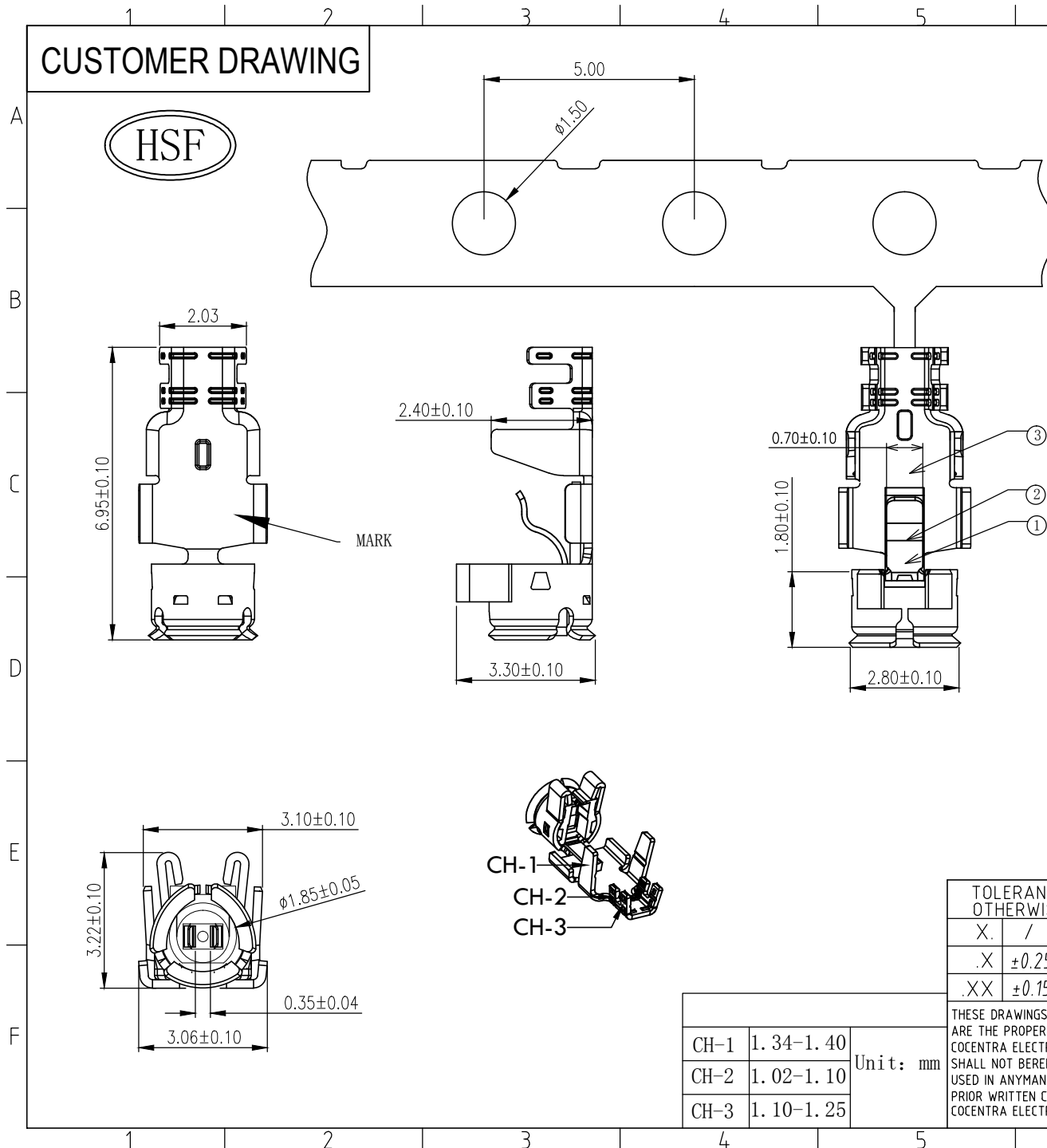
TOLERANCES UNLESS OTHERWISE SPECIFIED

X.	/	.XXX	/
.X	± 0.25	X. $^{\circ}$	$\pm 1^{\circ}$
.XX	± 0.15	X. $^{\circ}$	$\pm 0.5^{\circ}$

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CH-1	1. 34-1. 40	Unit: mm
CH-2	1. 02-1. 10	
CH-3	1. 10-1. 25	

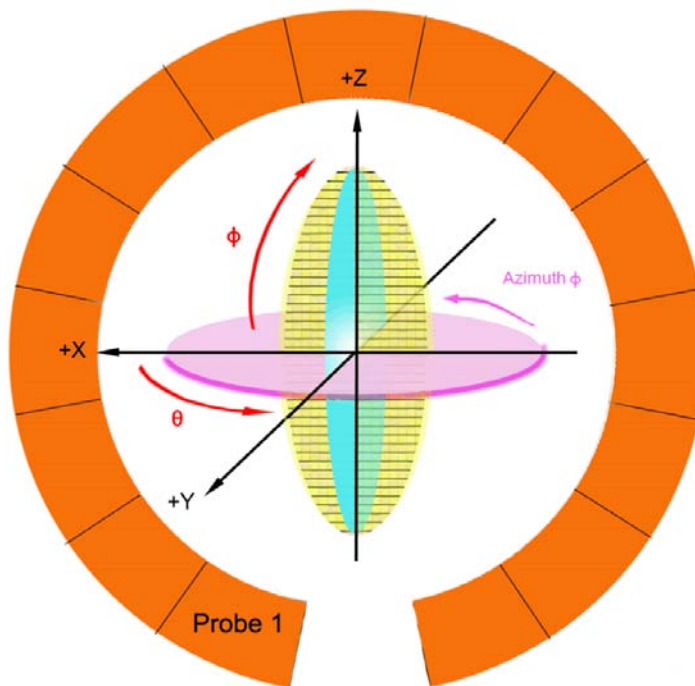
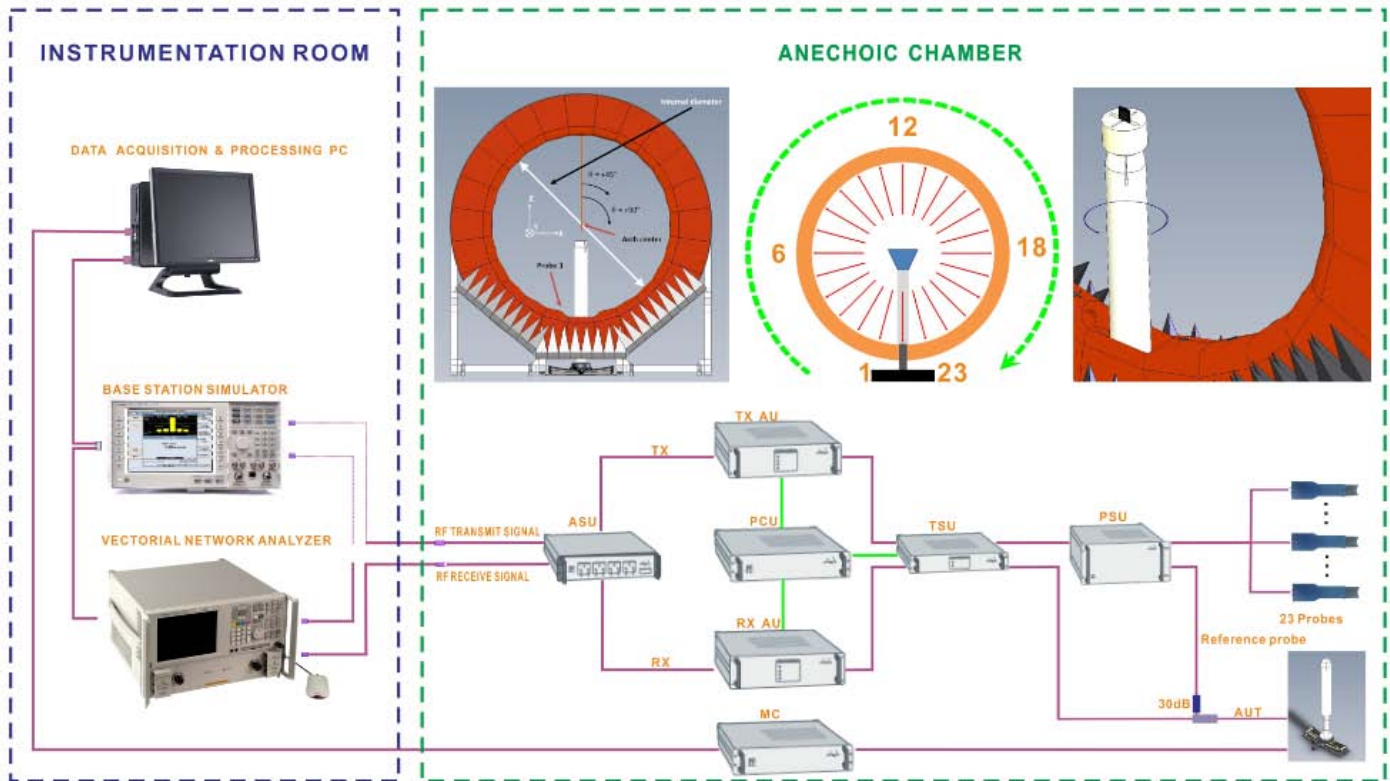
SERIES: ANTENNA CABLE END SERIES			TITLE: AN Plug for OD 1.13mm				
APPD:			PART No.: 2212-0215004-01				
CKD:							
DR:			DWG No.:				
		UNITS	MAT'L	FINISH	SCALE	SHEET	REV.
		MM	NA	NA	1:1	1/1	DX1



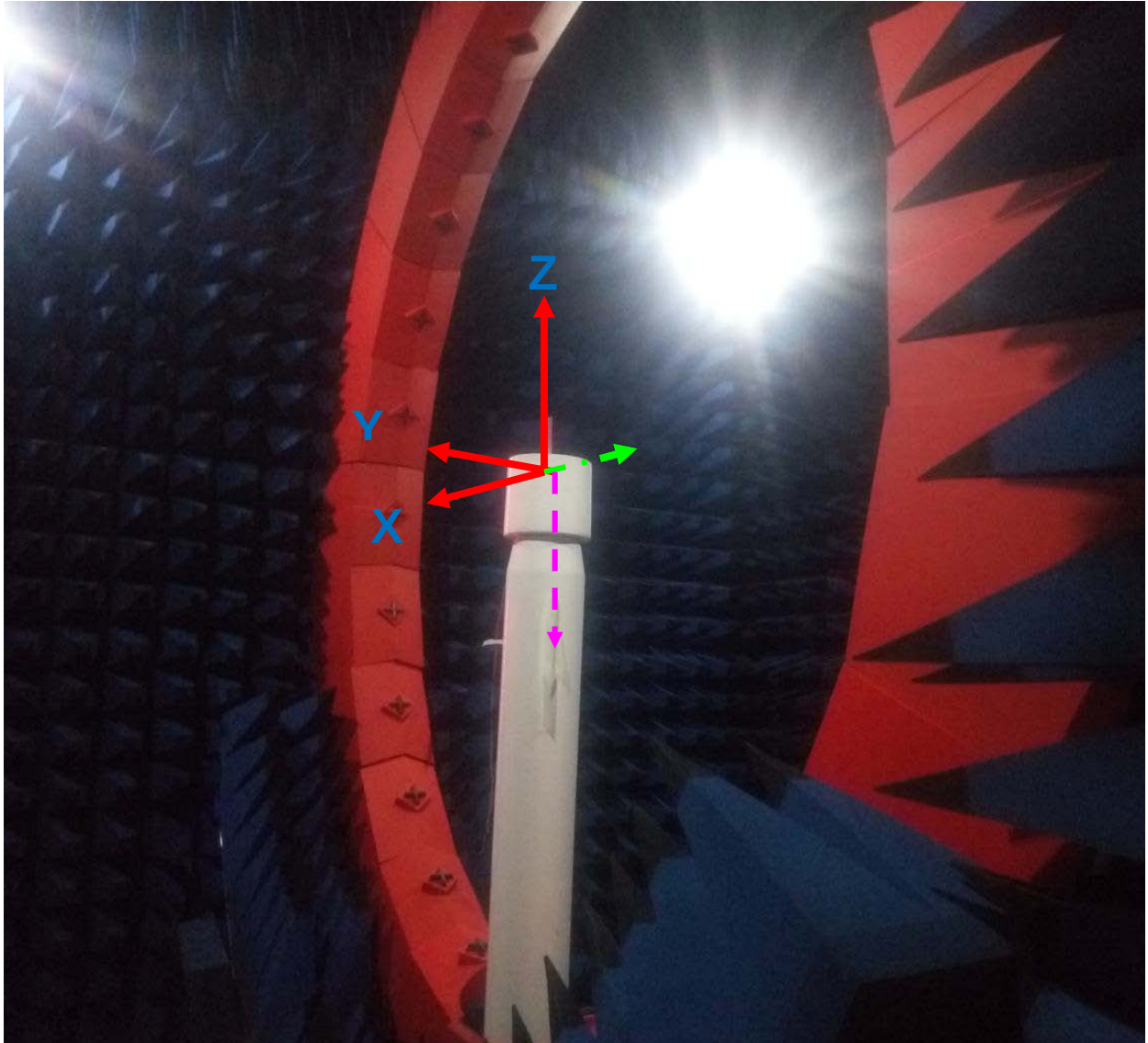
Test Results

1 Antenna

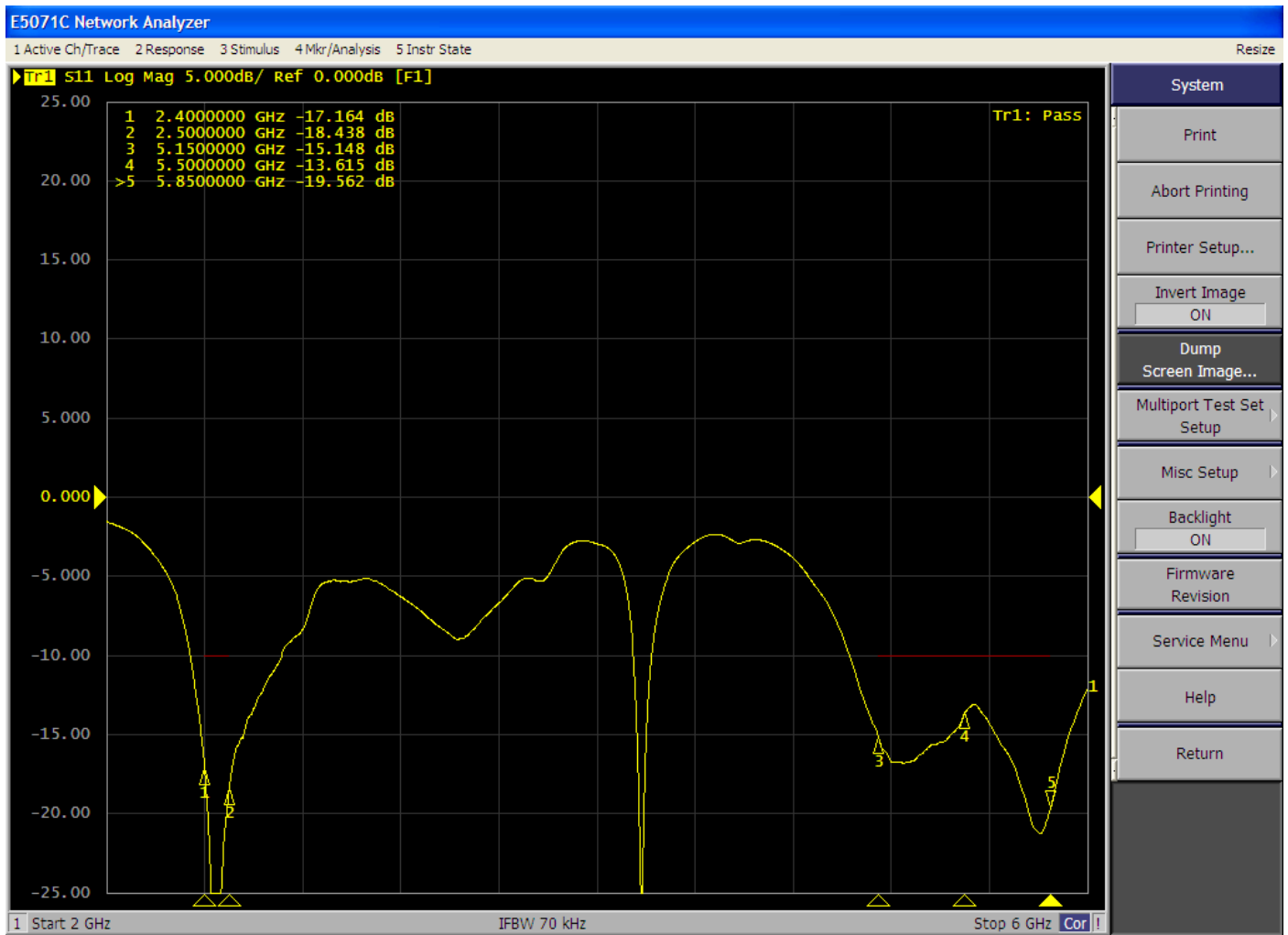
1.1 Test Setup



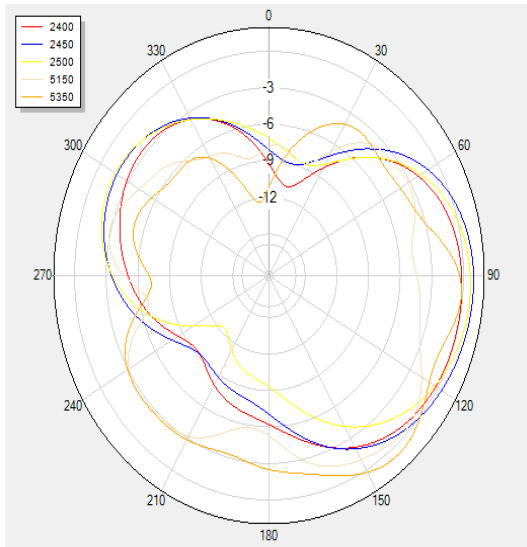
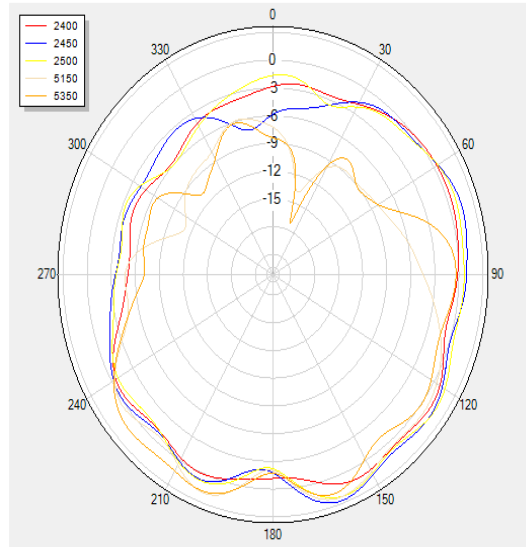
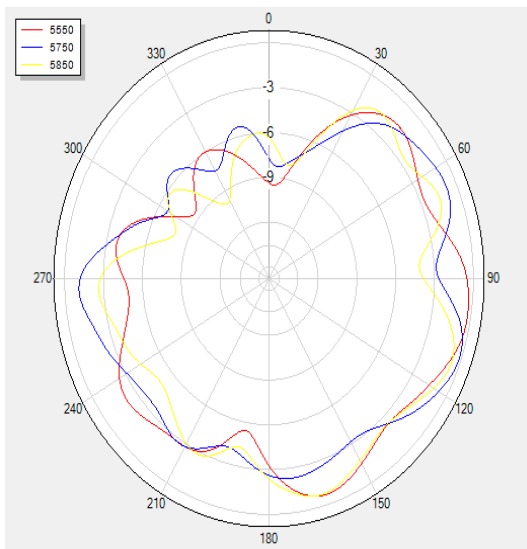
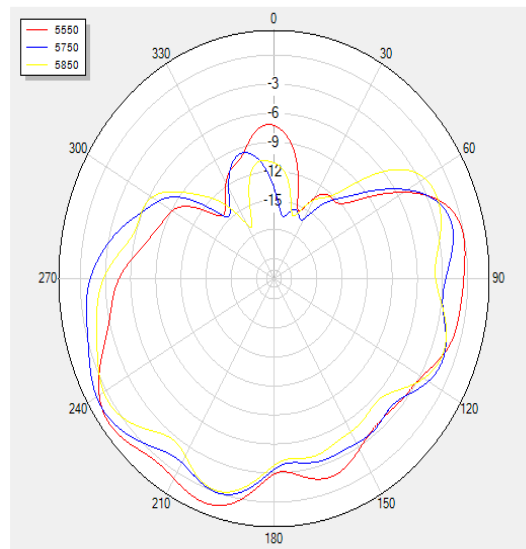
Configuration and Coordinate



3. Antenna S-parameter test results



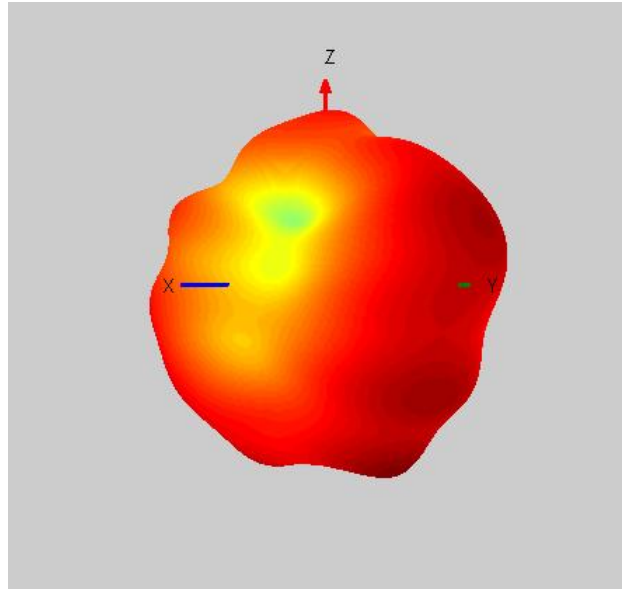
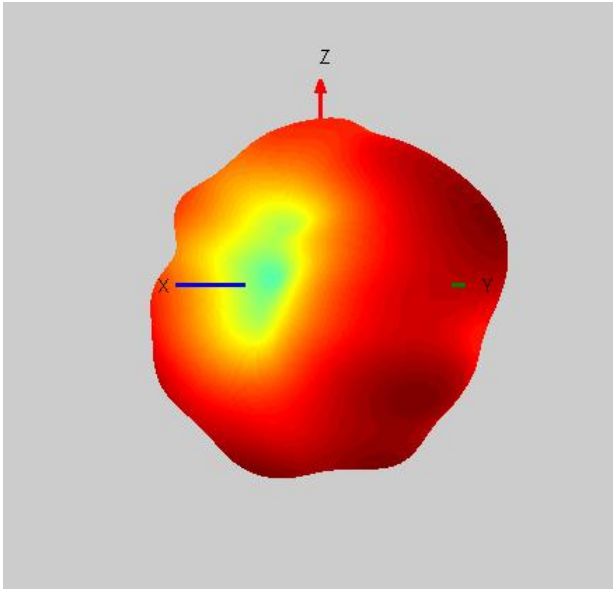
3. 2D Radiation patterns test results (Passive Antenna)

H Theta=90**V Phi=90****H Theta=90****V Phi=90**

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

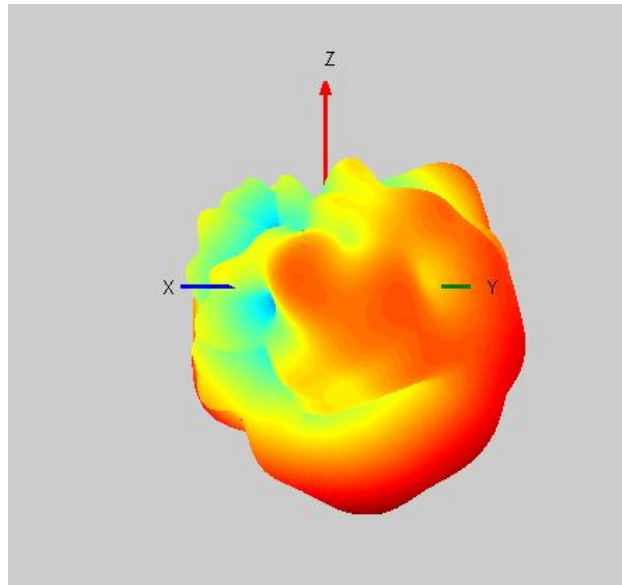
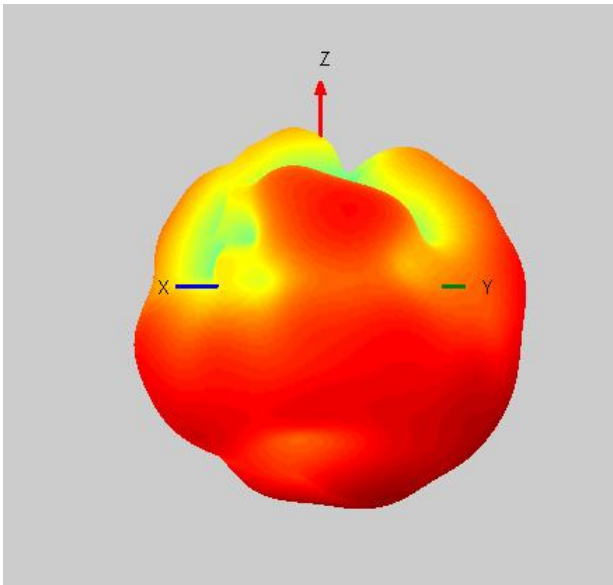
2400MHZ

2500MHZ



5150MHZ

5850MHZ



Test Value

Gain&Efficiency 3# 增益和效率		
frequency 频率(Hz)	gain 增益(dBi)	efficiency 效率
2400M	3.26	75%
2450M	3.15	73%
2500M	3.33	73%
5150M	3.25	74%
5350M	3.19	75%
5550M	3.32	83%
5750M	3.25	81%
5850M	3.14	75%