



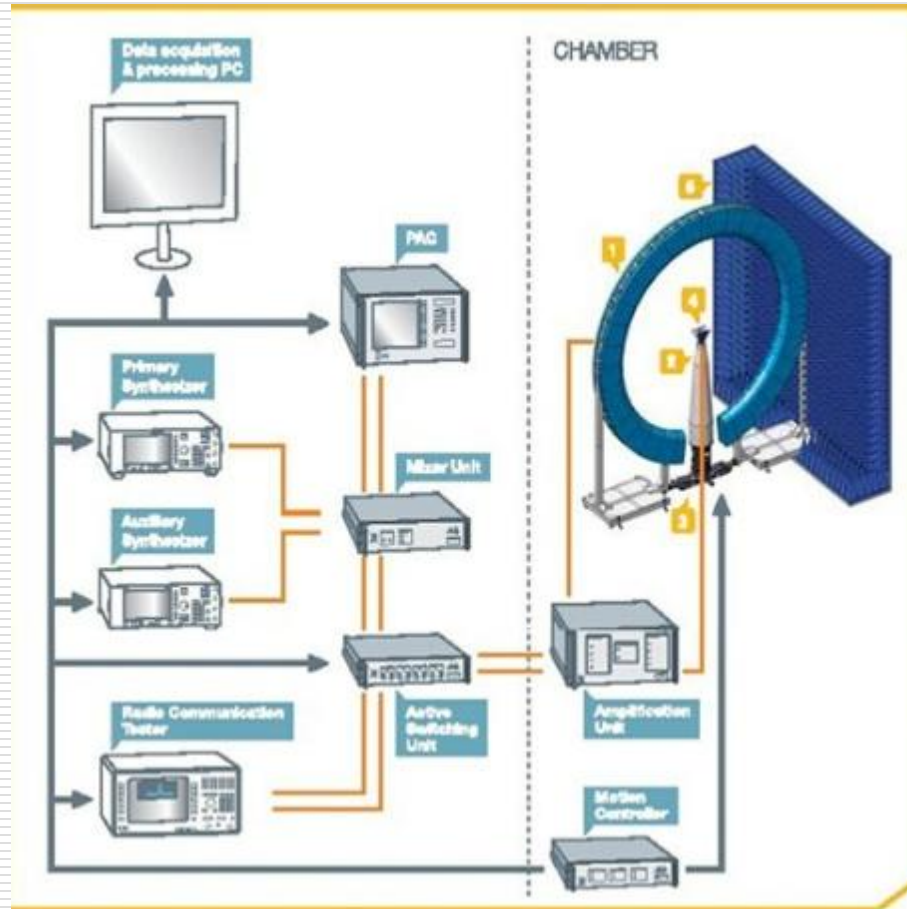
DONGGUAN TENGXIANG ELECTRONICS CO., LTD.

2. 4G Antenna Testing Parameters

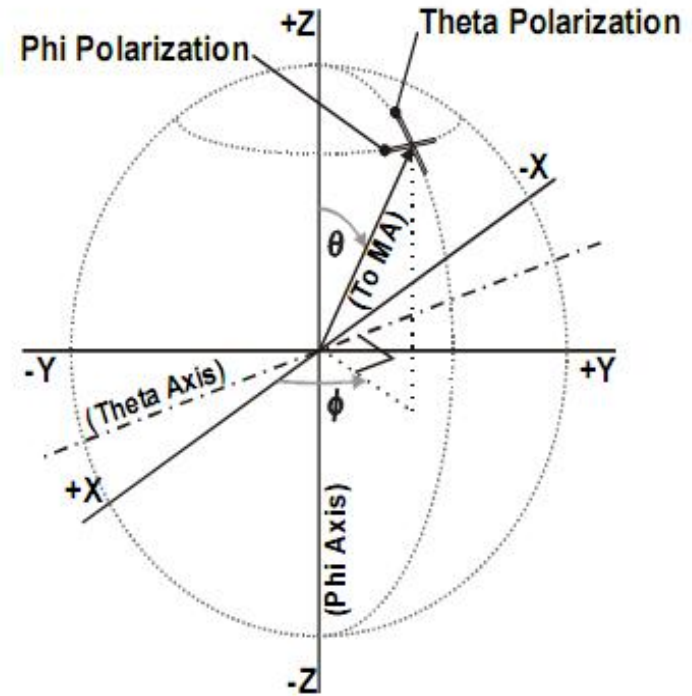
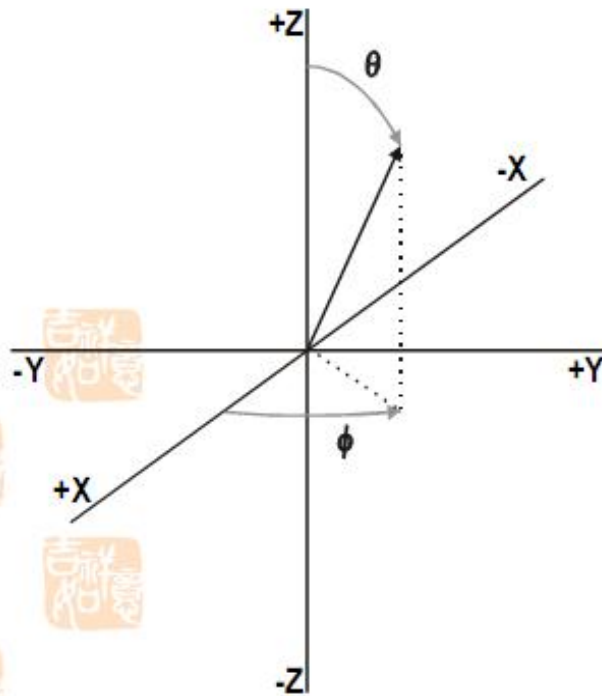
- Customers:
- Antenna Specification:
2400-2500MHz
- Versions:V1.0
- Prepare by:Luting
- Approve by:Wei Jia

Address:Dongguan City Chang'an Town sand head community shacong Road 53#
Call US: 0769-81873081/0769-81873082

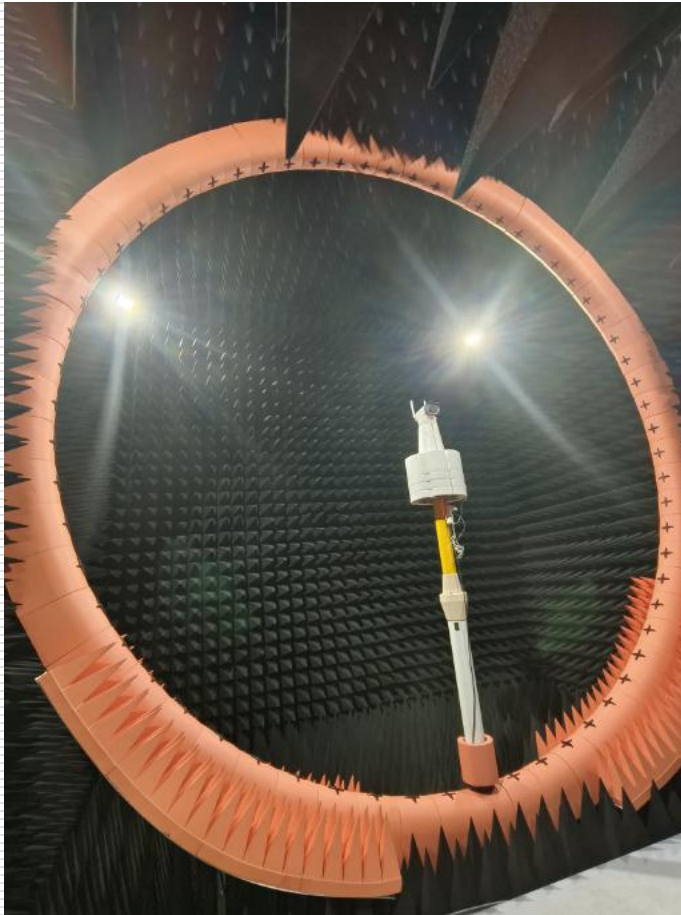
1. CTIA OTA Test System



1.1 Test Coordinates



1.2 64 Probe Test System In TengXiang



Size: 6m*6m*6m

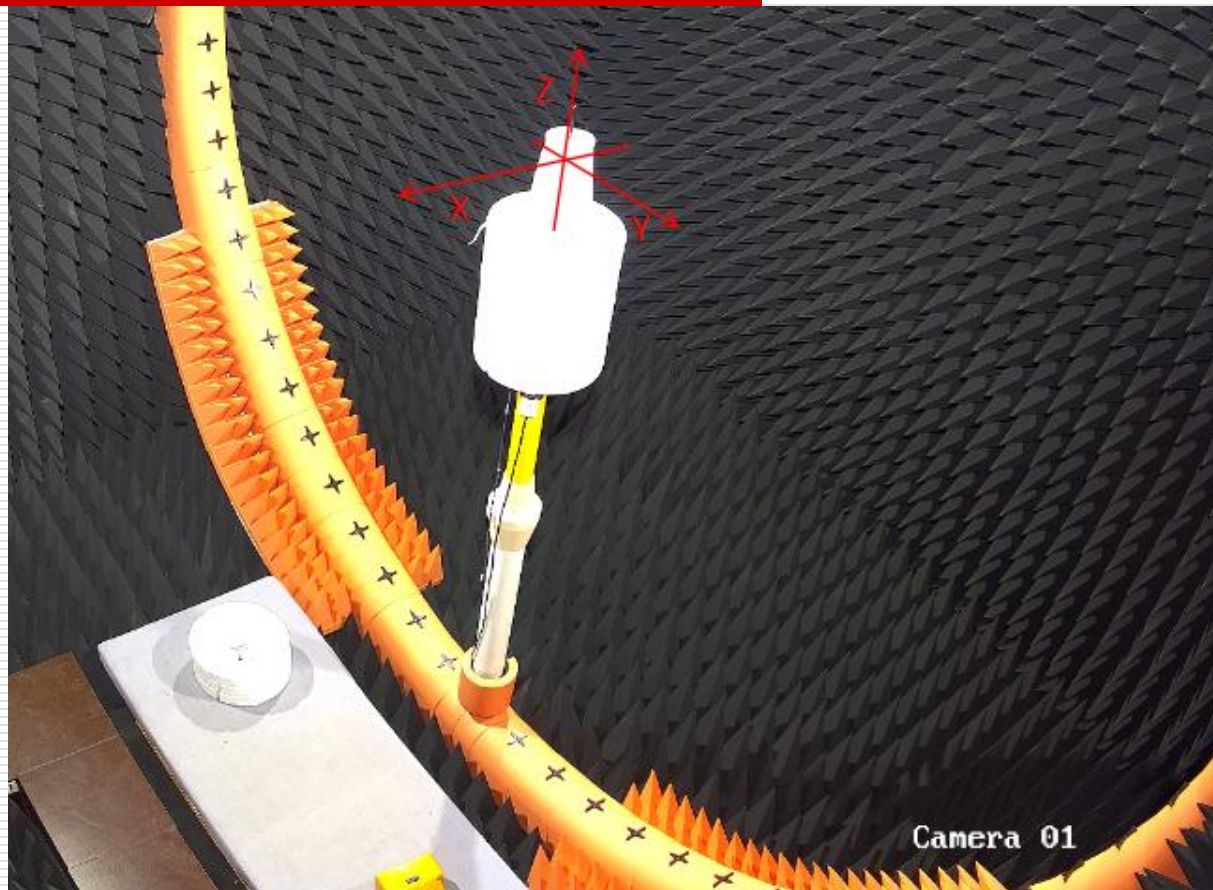
Electromagnetic Shield: $\geq 100\text{dB}$

Test Tolerance : $\pm 0.5\text{dBi}$

Test Project:

- 400MHz-8GHz Passive Test
- 2G/3G/4G/5G OTA Test

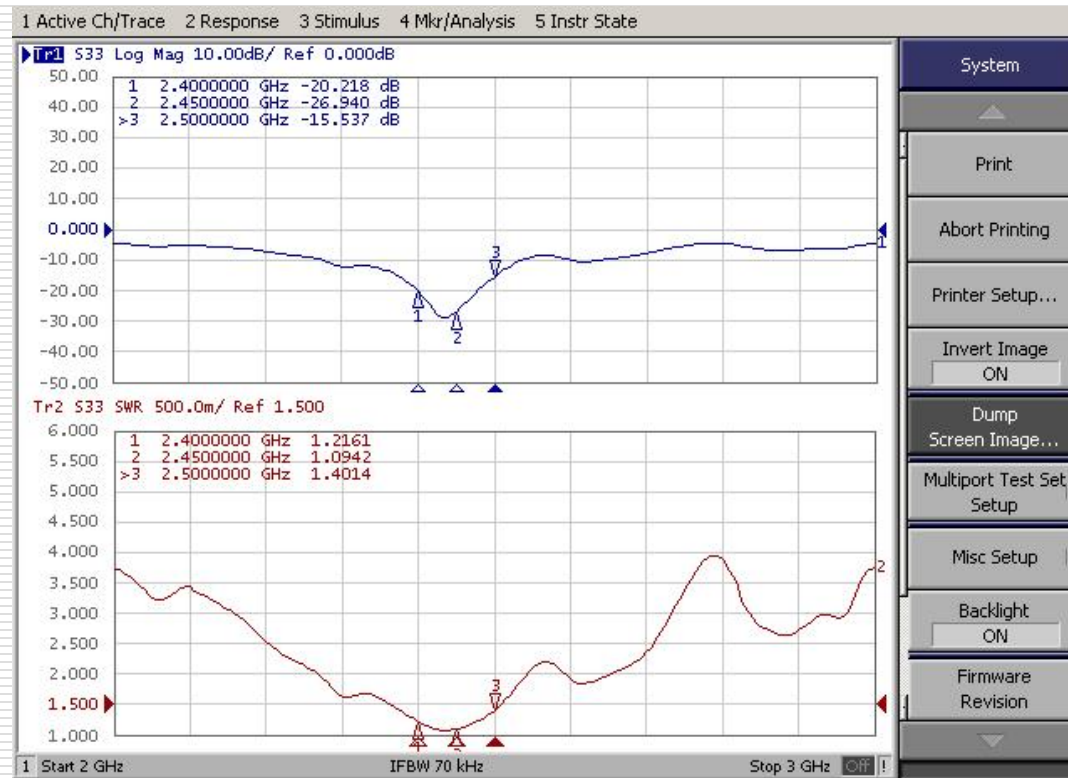
2. Testing Picture



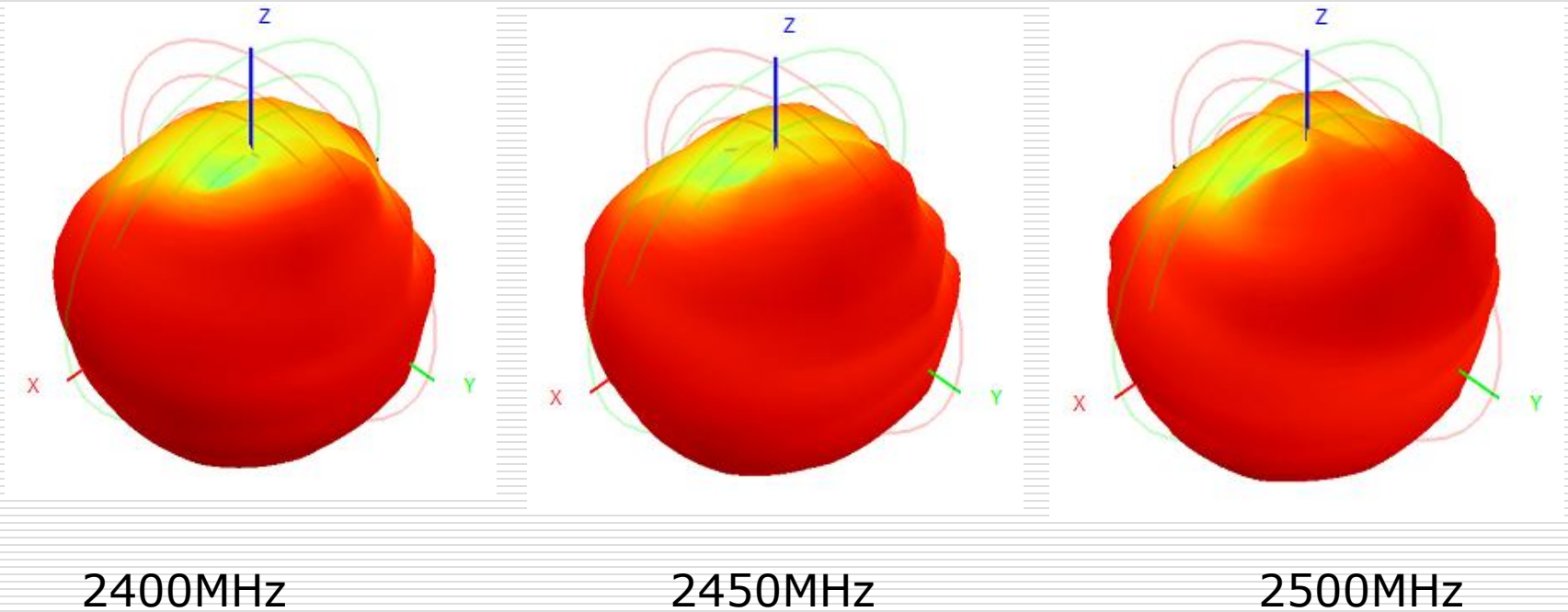
3. Testing Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.38	3.53	3.68	3.90	3.93	4.16	3.99	4.01	4.04	3.88	3.74
Efficiency (%)	56.86	59.44	62.45	66.00	65.87	66.07	61.54	61.18	61.30	60.80	60.87

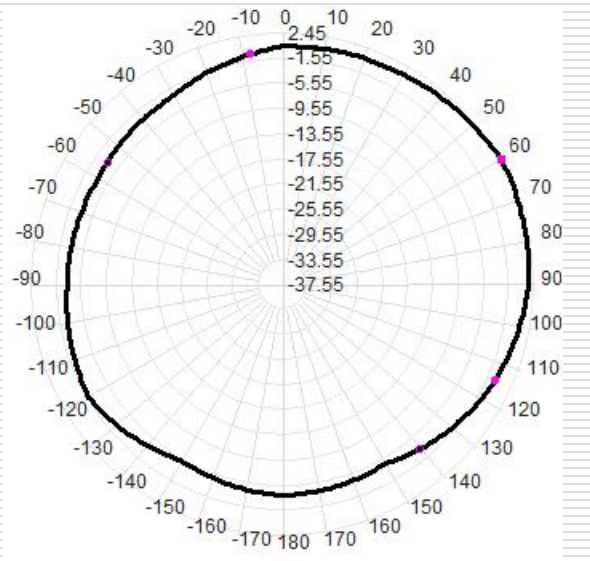
3.1.1 VSWR Test



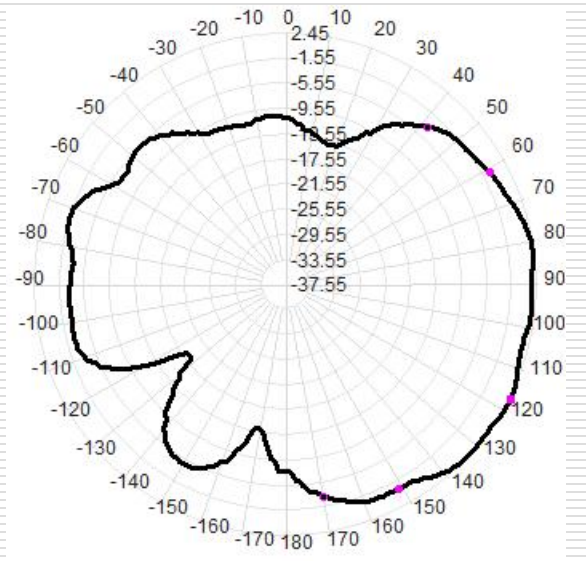
3.2.1 3D_Radiation Pattern



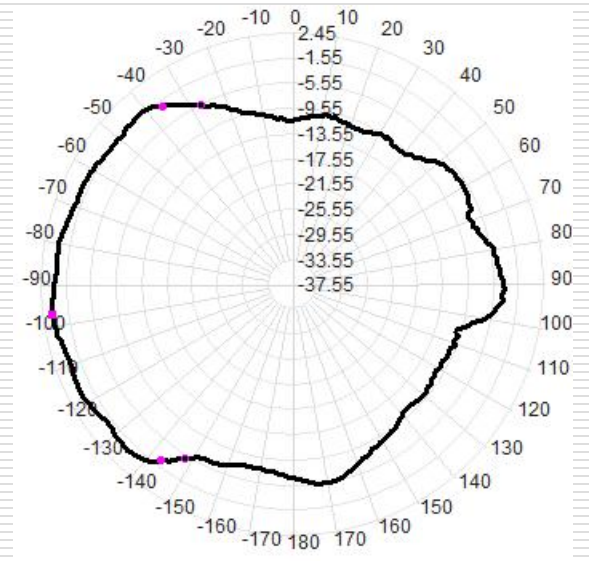
3.2.2 2D_Radiation Pattern



XY_Plane



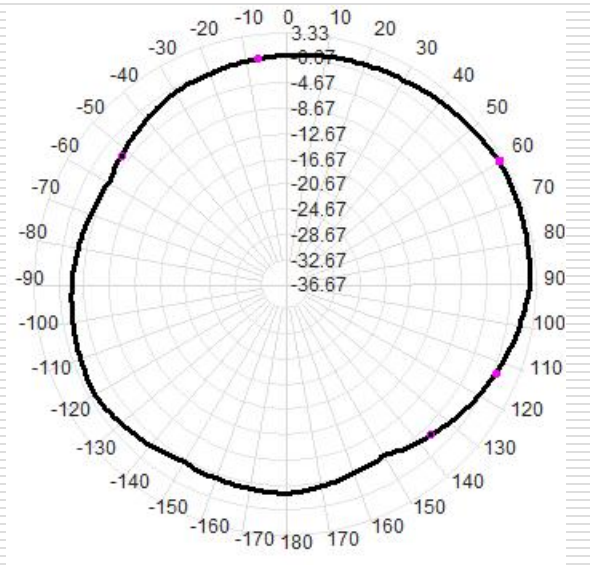
XZ_Plane



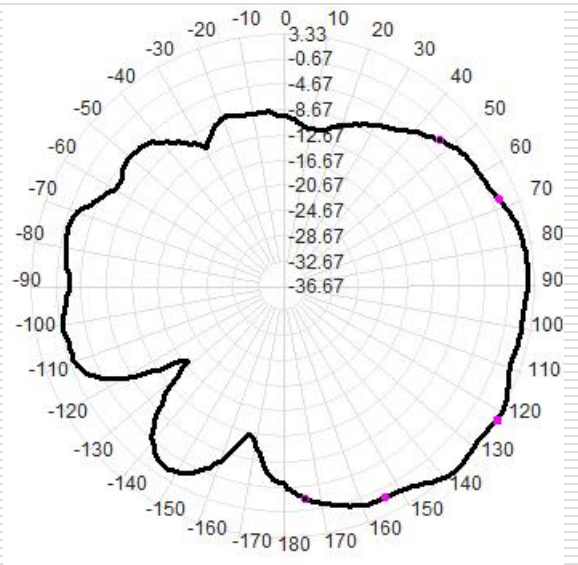
YZ_Plane

2400MHz

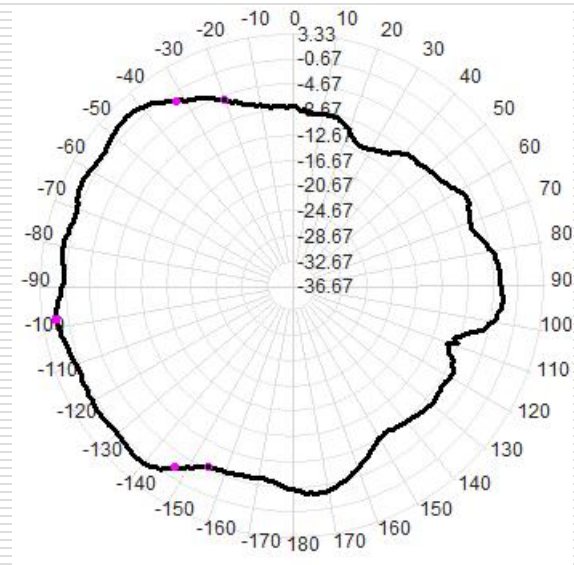
3.2.2 2D_Radiation Pattern



XY_Plane



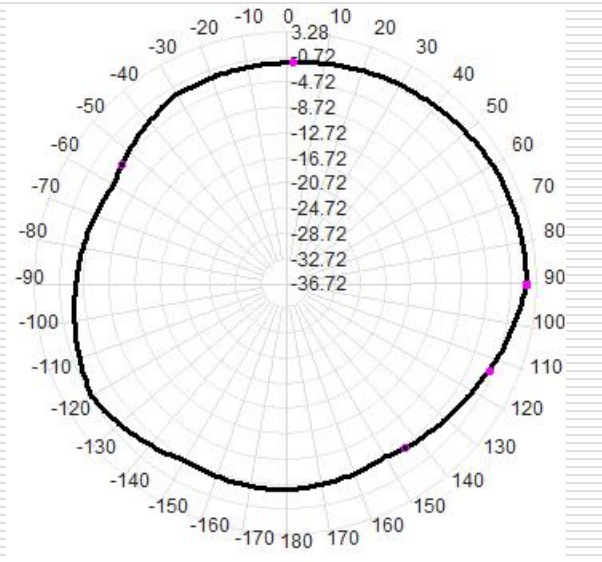
XZ_Plane



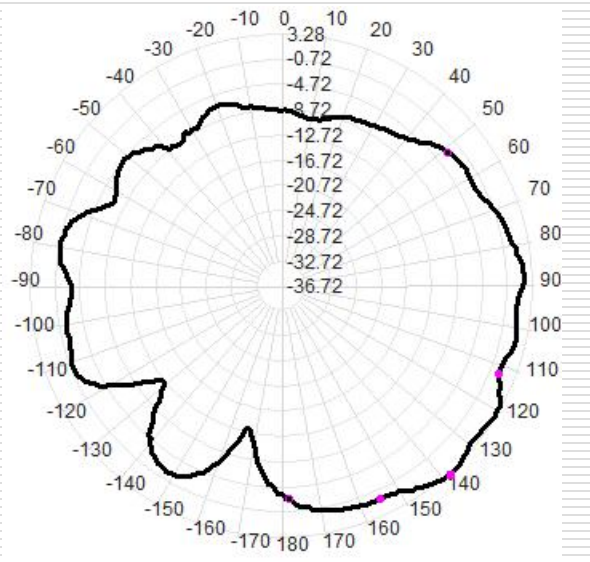
YZ_Plane

2450MHz

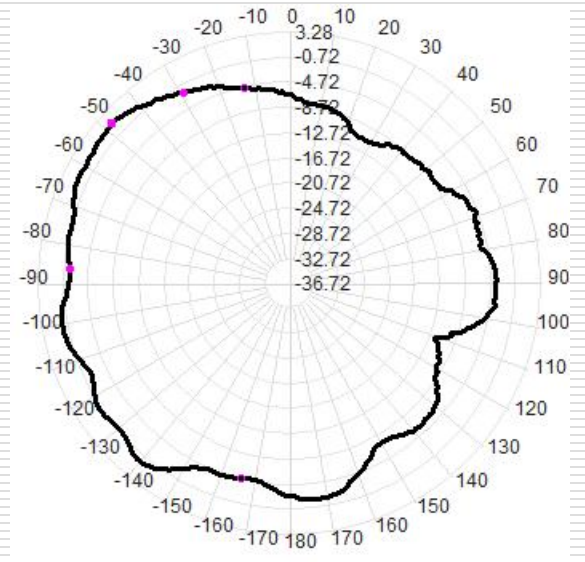
3.2.2 2D_Radiation Pattern



XY_Plane

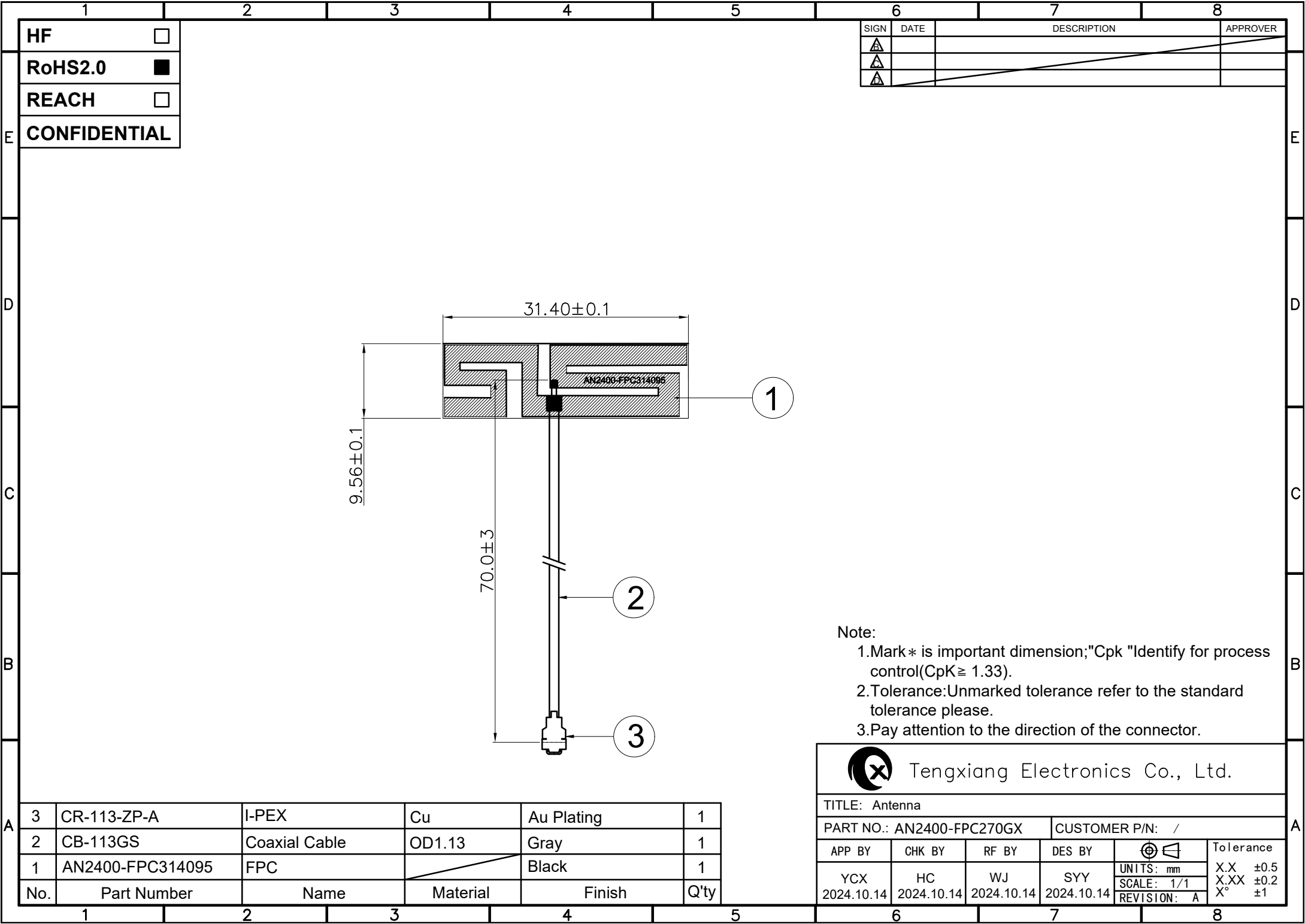


XZ_Plane



YZ_Plane

2500MHz



HF	☐
RoHS2.0	☒
REACH	☐
CONFIDENTIAL	

SIGN	DATE	DESCRIPTION	APPROVER

- Note:
- 1.Mark * is important dimension;"Cpk "Identify for process control(CpK≥ 1.33).
 - 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.
 - 3.Pay attention to the direction of the connector.



Tengxiang Electronics Co., Ltd.

TITLE: Antenna				
PART NO.: AN2400-FPC270GX			CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY	
YCX	HC	WJ	SY	UNITS: mm
2024.10.14	2024.10.14	2024.10.14	2024.10.14	SCALE: 1/1
				REVISION: A
				Tolerance
				X.X ±0.5
				X.XX ±0.2
				X° ±1

3	CR-113-ZP-A	I-PEX	Cu	Au Plating	1
2	CB-113GS	Coaxial Cable	OD1.13	Gray	1
1	AN2400-FPC314095	FPC		Black	1
No.	Part Number	Name	Material	Finish	Q'ty