ANT Test Report

Product Name: 2.4G PCB ANT

Model Name: L620

Issued Date:12th Dec,2023

Report Version:V1.0

Issue By

General Summary

Product Name	2.4G PCB ANT	Model Name	D1
Brand Name	/	Receipt Date	24th Nov,2022
Applicant	SHENZHEN PANWEI ELECTRONICS CO.,LTD		
Address	Fl. 8, Shenshan New Generation Information Industrial Park, No. 19, Keji Middle Road, High tech Zone, Shantou, Guangdong, China		
Manufacturer	SHENZHEN PANWEI ELECTRONICS CO.,LTD		
Address	Fl. 8, Shenshan New Generation Information Industrial Park, No. 19, Keji Middle Road, High tech Zone, Shantou, Guangdong, China		
Test Program	Passive &VSWR		
Performed Date	06th Dec,2022~12th Dec,2022		
Comment	The test result only responds to the test sample		

ECTION 1 General Information

1.1 Applicant Information

Company: BOTIN SMART TECHNOLOGY (Guangdong) Co., LTD.

Fl. 8, Shenshan New Generation Information Industrial Park, No. 19, Keji Middle

Road, High tech Zone, Shantou, Guangdong, China

1.2 Equipment under Test (EUT) Information

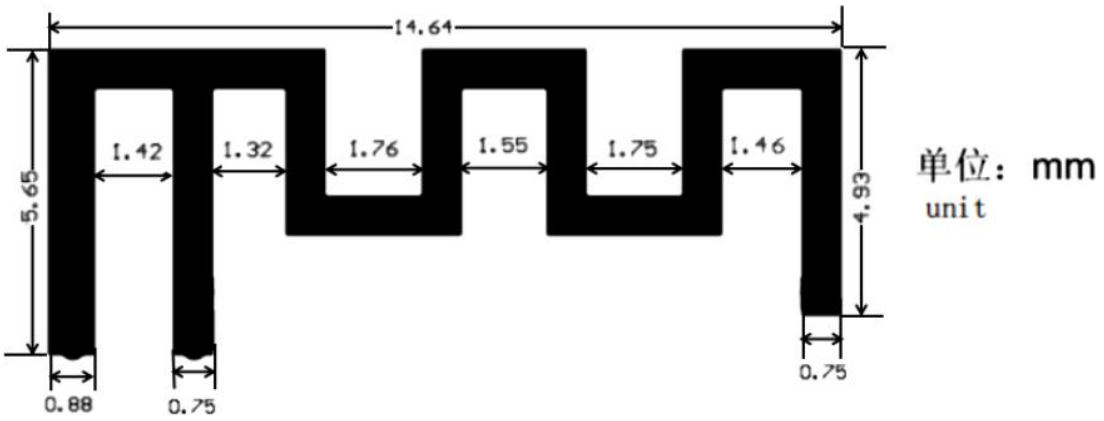
Table 1-1 EUT Information

Manufacture	BOTIN SMART TECHNOLOGY (Guangdong) Co., LTD.
Device Type	2.4G PCB ANT
Model	2.4G PCB ANT
Antenna Type	
Device Operation Configurations:	
Test Item	Configuration
VSWR	2400MHz, 2450MHz, 2500MHz
Passive	2400MHz, 2450MHz, 2500MHz

1.3 EUT Distribute

Table 1-2 EUT Used For Each Test

Model	Sample NO.	Test Item	Test Condition
2.4G PCB ANT		VSWR	23.0℃, 49%RH
		Passive	



SECTION 2 Test Method

2.1 Test System Describe

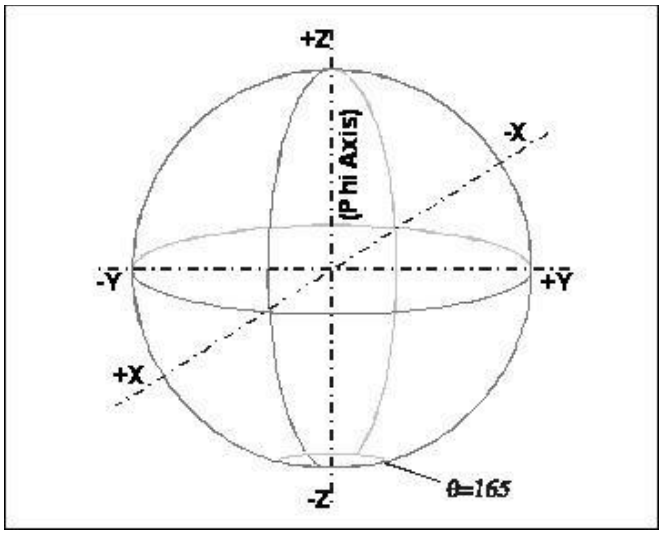


Fig.1 Coordinate Axis

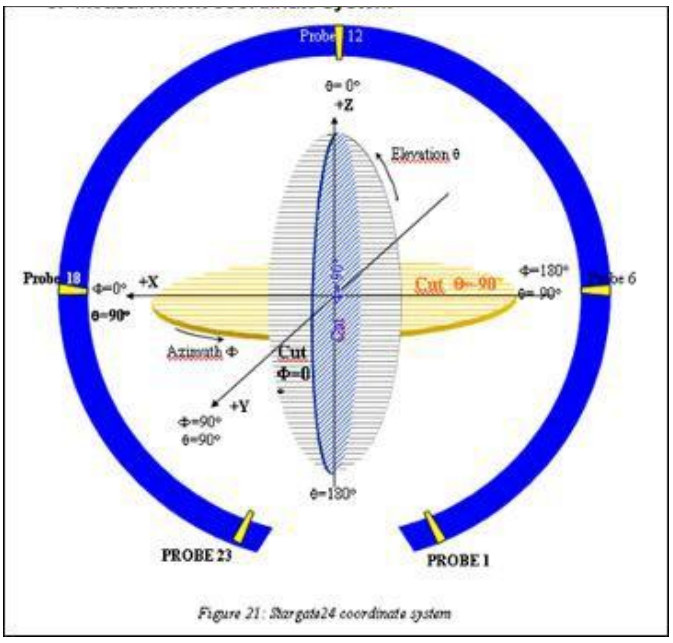
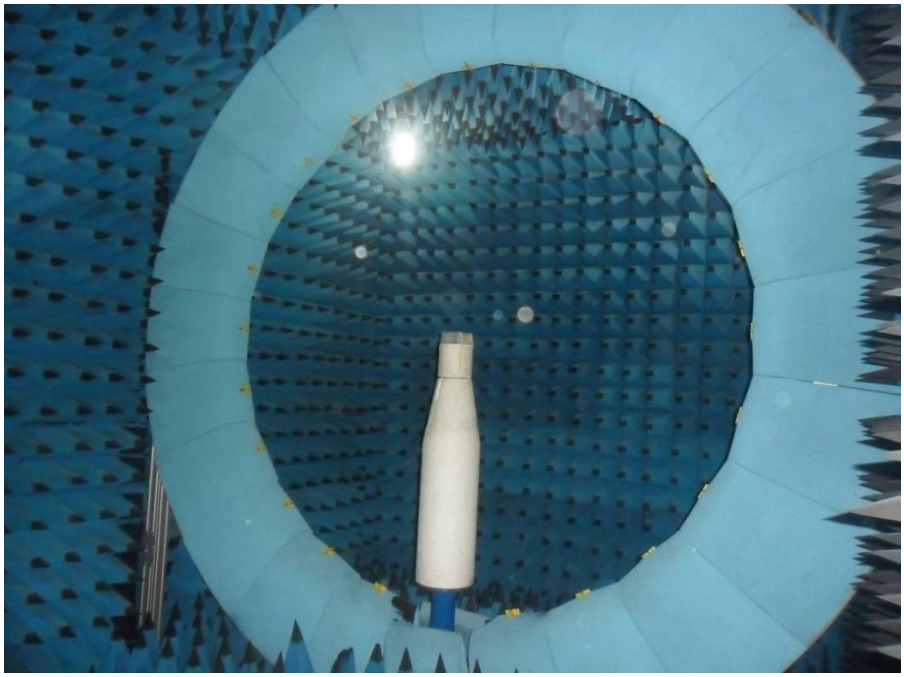


Fig.2 Coordinate Axis

For the purposes of these tests, two principal categories of positioning systems will be defined, based on expected methods of performing spherical pattern tests. These are distributed-axis systems and combined-axis systems. Distributed-axis systems move the measurement antenna about the EUT and Phi-axis positioner and are representative of most conicalcut method systems.

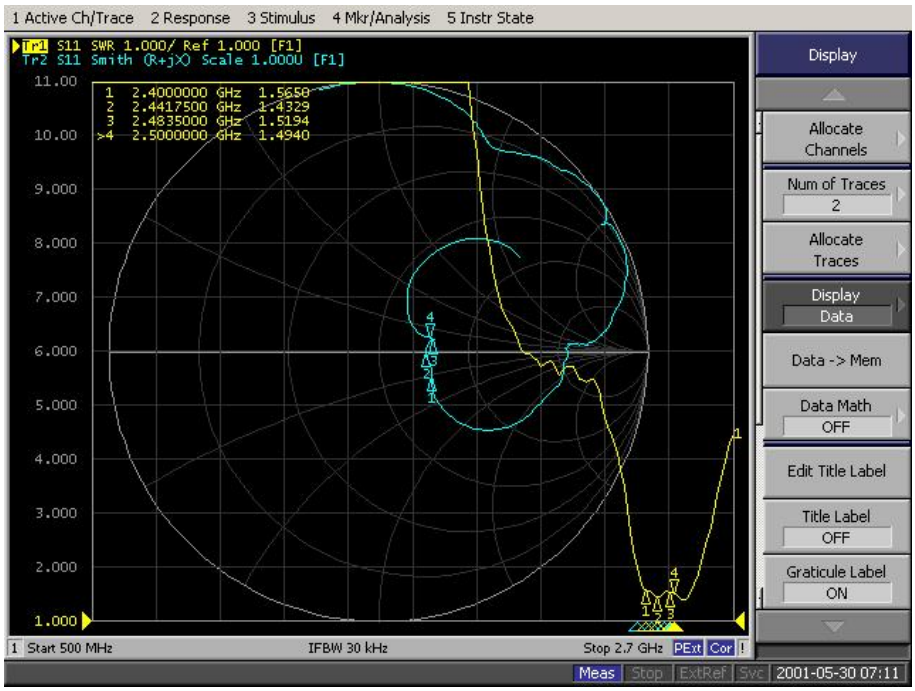
2.2 Chamber Test Photos



SECTION 3 Test Result

3.1 Test Result

3.1.1 VSWR,Smith

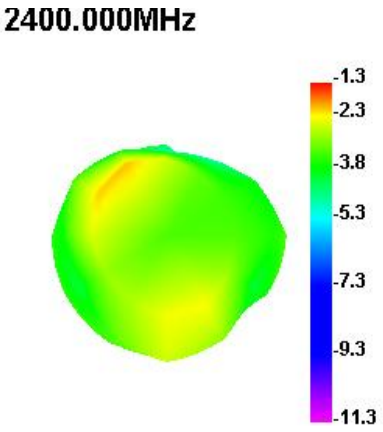


VSWR

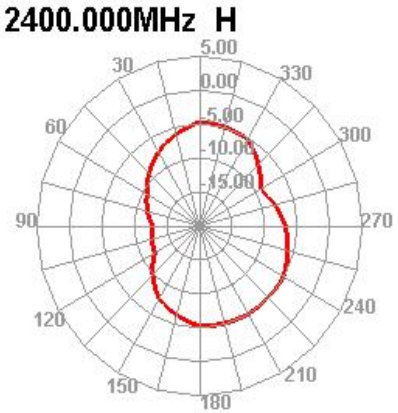
3.1.2 Passive Result

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)
2400	26.8	-5.72	-1.28	-3.43	-1.28	-18.77
2410	25.72	-5.9	-1.62	-3.77	-1.62	-18.66
2420	27.67	-5.58	-1.34	-3.49	-1.34	-18.14
2430	30.04	-5.22	-1.04	-3.19	-1.04	-16.76
2440	31.56	-5.01	-0.85	-3	-0.85	-16.31
2450	41.67	-3.8	0.00	-1.73	0.42	-14.41
2460	34.86	-4.58	-0.47	-2.62	-0.47	-15.33
2470	42.19	-3.75	-0.28	-1.87	0.28	-15.81
2480	50.79	-2.94	-1.03	-1.12	1.03	-15.86
2490	47.4	-3.24	-1.02	-1.13	1.02	-16.54
2500	49.43	-3.06	-1.03	-0.76	1.39	-15.76

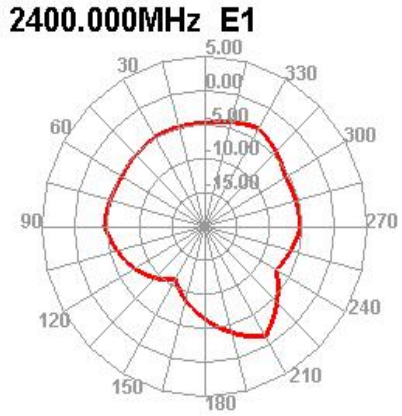
3.1.2.1 Pattern Plots of Passive



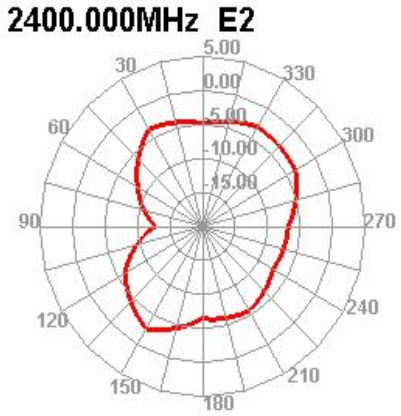
2400MHz



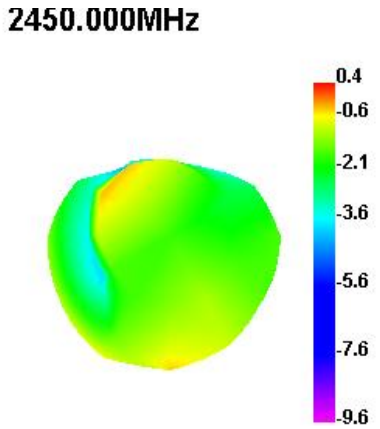
2400MHz-H



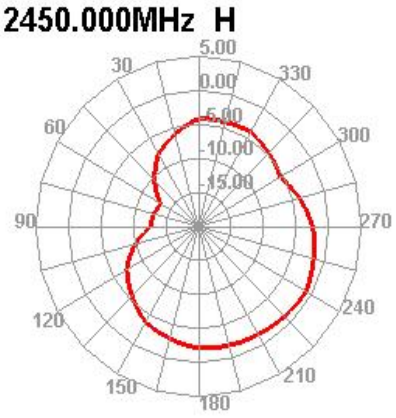
2400MHz-E1



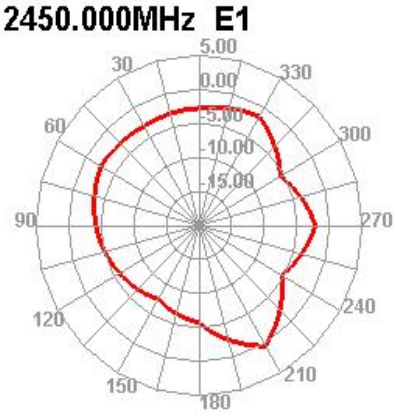
2400MHz-E2



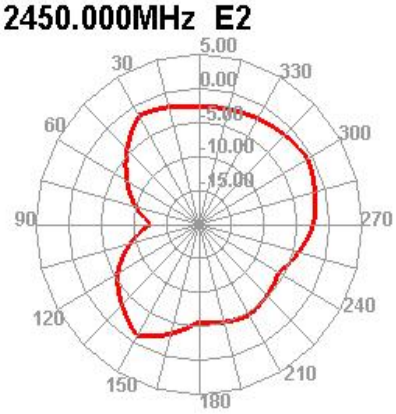
2450MHz



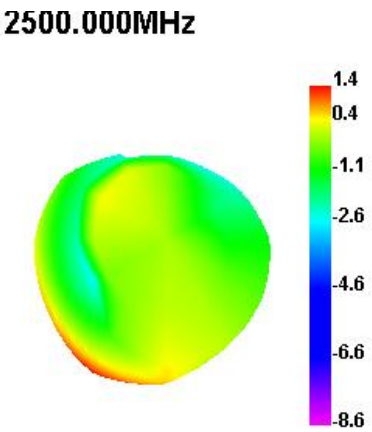
2450MHz-H



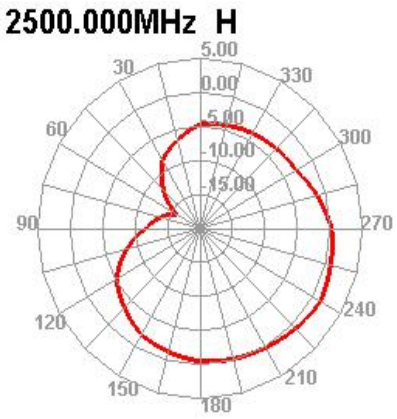
2450MHz-E1



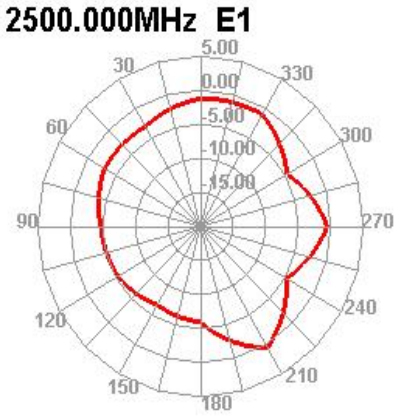
2450MHz-E2



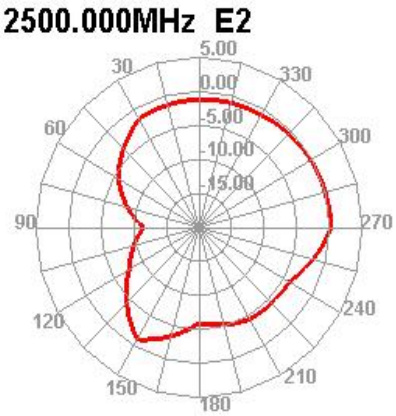
2500MHz



2500MHz-H



2500MHz-E1



2500MHz-E2

SECTION 4 Other Information

4.1 Sample Photo

4.2 Equipment List

NO	Name	Model	S/N	Calibration Due Date
1	Satimo	SG24	/	22th Jul,2023
2	ENA Series Network Analyzer	E5071C	MY46213516	22th Jul,2023

******The End*******