



Shenzhen cape deep communication technology co., LTD

Antenna Test Report

Customer : Aoni

Project : B111

Rf Engineer : HuiPang

Date : 13/01/2023

Version : 2

Address:second floor,Yulong building 1,Longcheng Industrial Zone,Longguan Avenue No. 44
0,Longhua District,Shenzhen



Laboratory test environment and equipment



测试项目	测试设备
S11、S12、VSWR、LOSS	Network analyzer E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16 Darkroom、GP7*4*3 Darkroom 、E5071B
TRP、TIS	Satimo SG16 Darkroom、GP7*4*3 Darkroom 、8960、CMW500、MT8820C、E4438C、



Brief introduction of the item

Type	Bluetooth headset		
Material	Frequency band information	Antenna form	Matching change
Steel Sheet	2402-2480M	"T" type	NO
Antenna material	Steel plate antenna		



Antenna Matching circuit



Antenna	Element	Value	Attached drawing
	M2(0402)	NC	
	M1(0402)	0R	
	M4(0402)	1.2P	



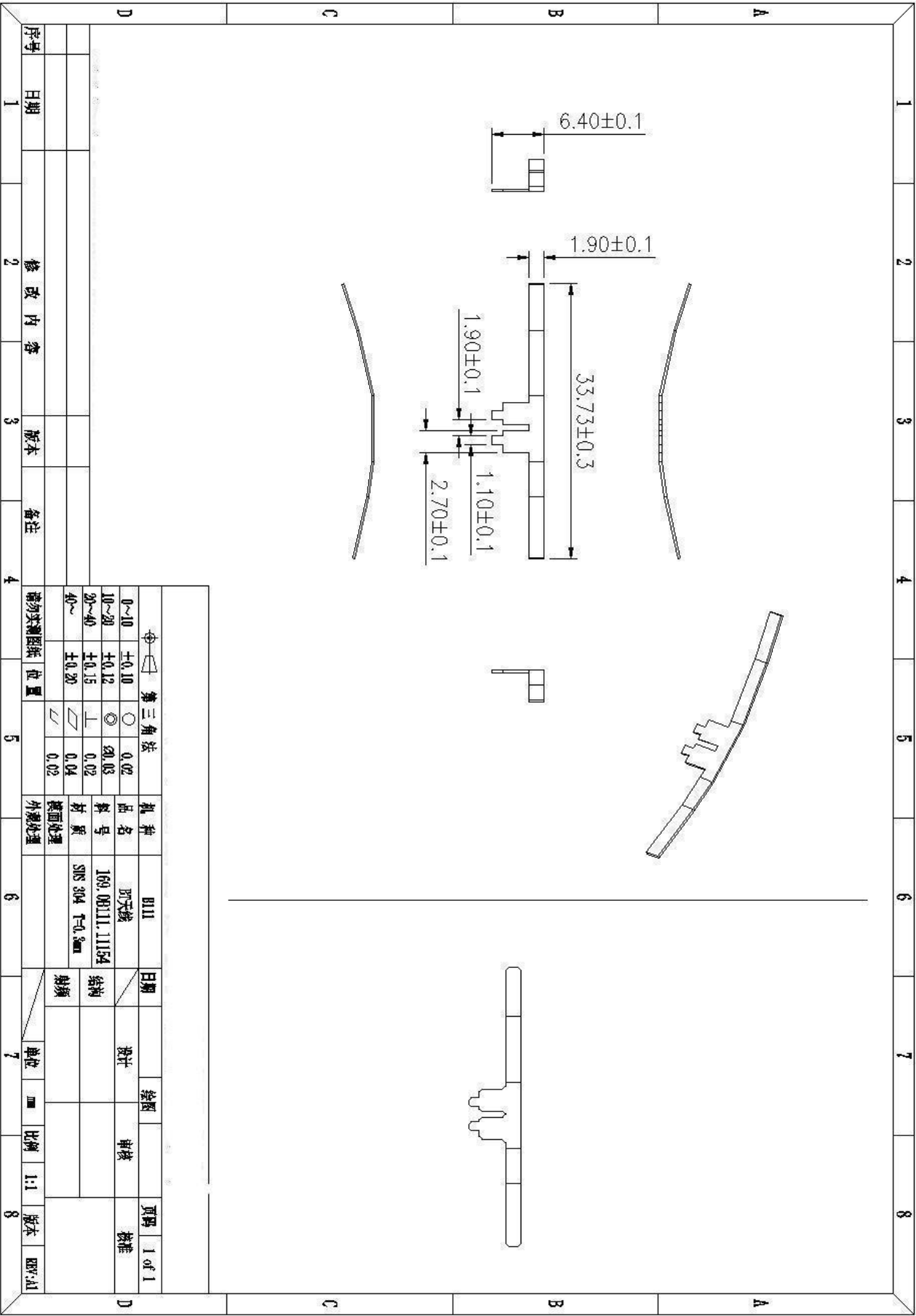
Active test report

Channel	TRP(dBm)	TIS(dBm)
0	3.7	-89.4
39	3.8	-89.6
78	3.8	-89.8



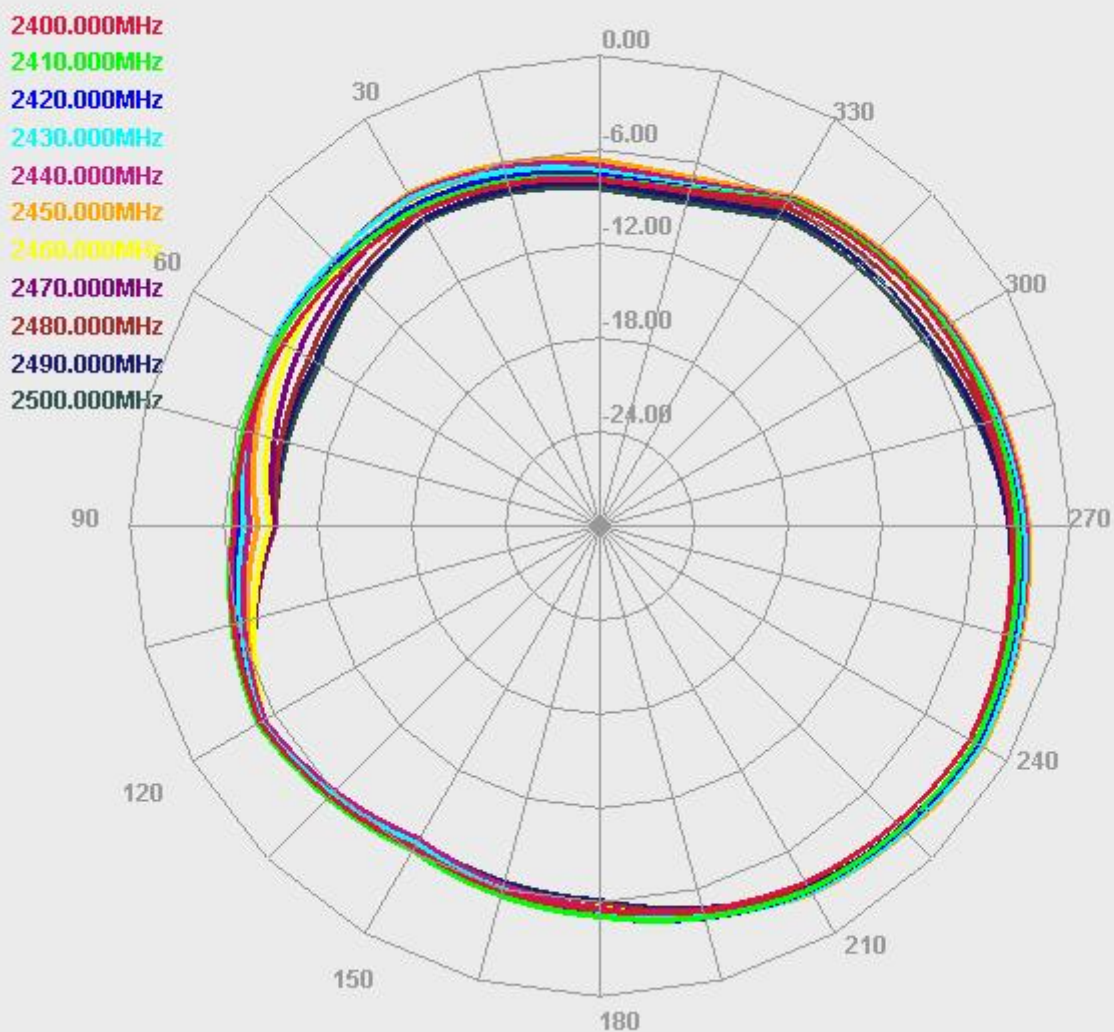
Passive test report

Freq (MHz)	Eff1 (%)	Eff1 (dB)	Gain (dBi)
2400	36.97	-4.32	0.65
2410	34.36	-4.64	0.15
2420	34.55	-4.62	0.09
2430	33.97	-4.69	0.22
2440	40.02	-3.98	1.02
2450	40.42	-3.93	1.35
2460	42.11	-3.76	1.64
2470	39.2	-4.07	1.51
2480	44.57	-3.51	1.89
2490	48.75	-3.12	2.32
2500	52.71	-2.78	2.49

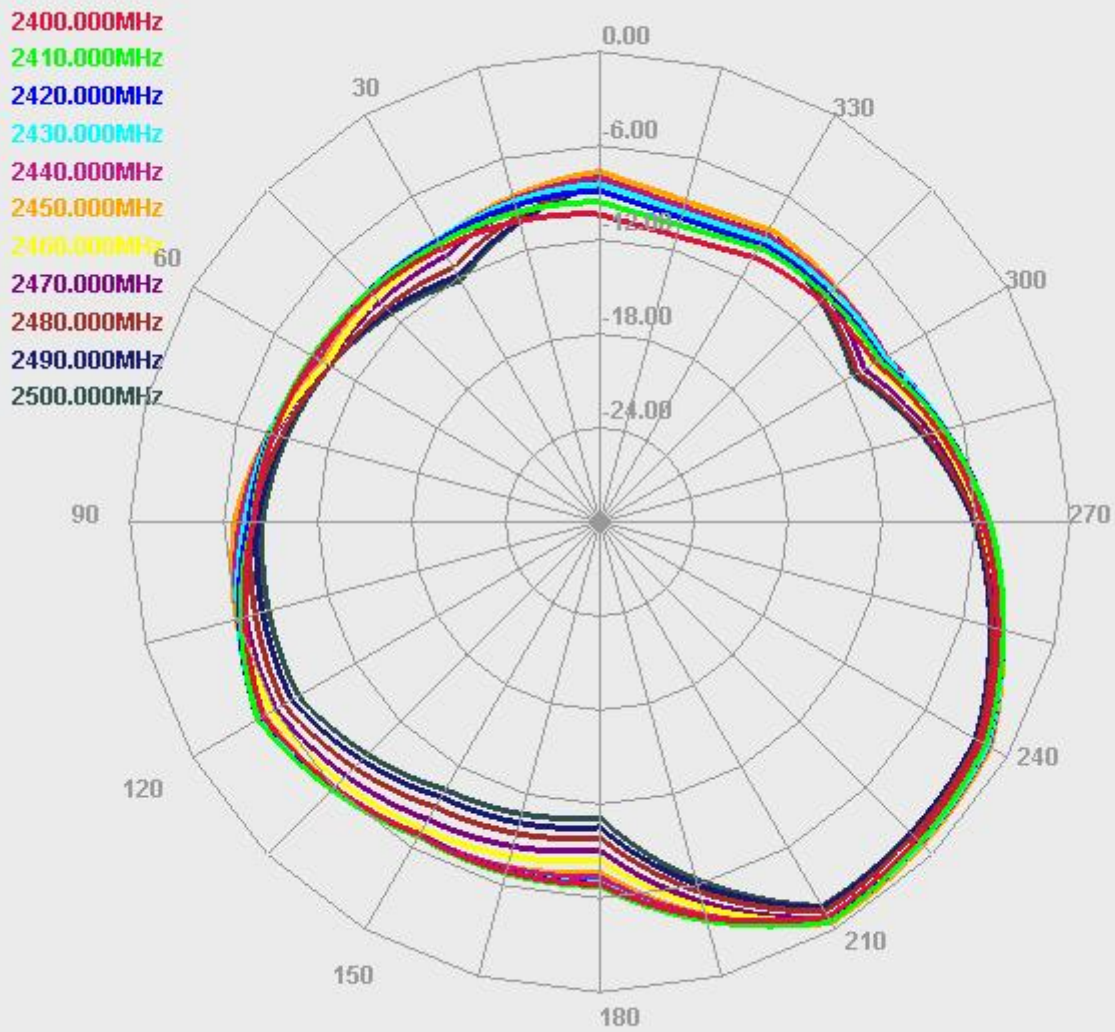


Channel	TRP(dBm)	TIS(dBm)
0	1.7	-88.4
39	1.8	-88.6
78	1.5	-87.8

Horizontal

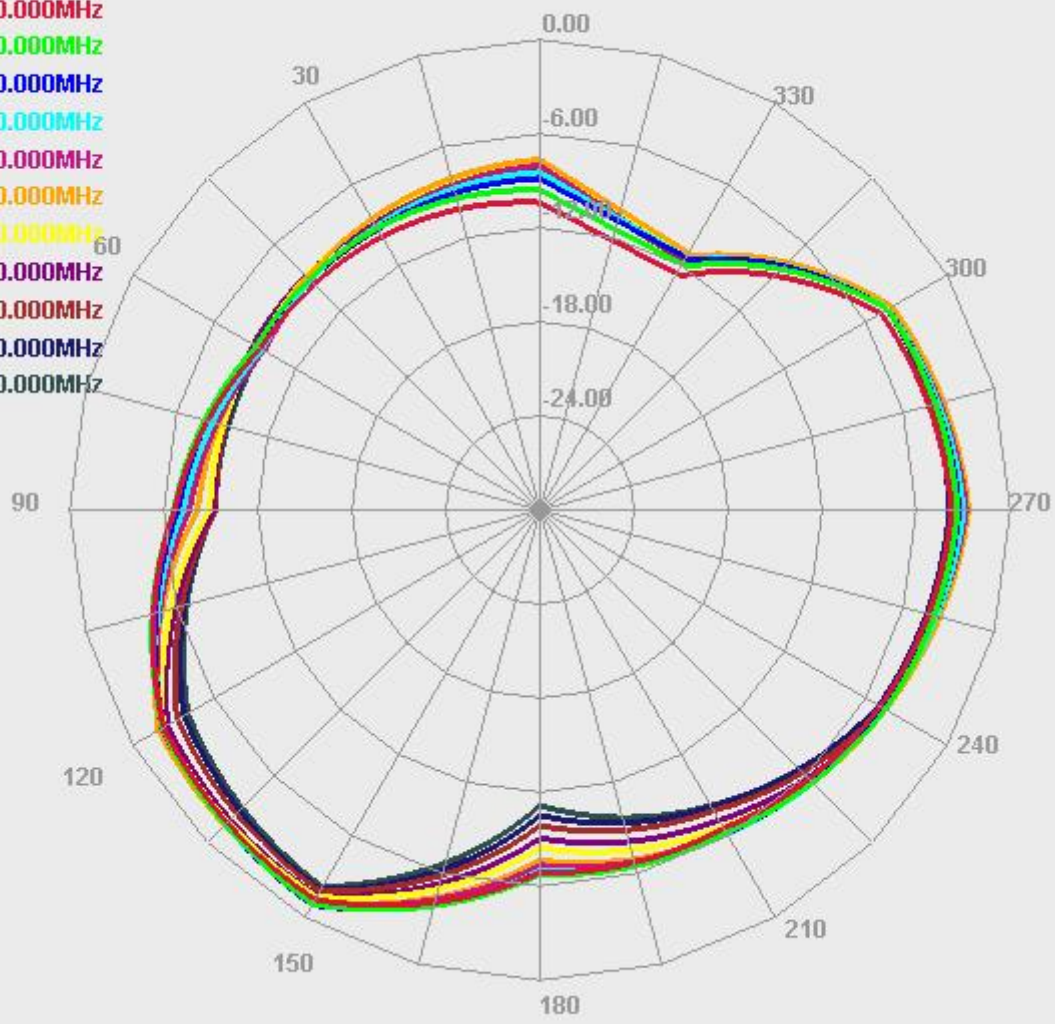


E1 Face



E2 Face

2400.000MHz
2410.000MHz
2420.000MHz
2430.000MHz
2440.000MHz
2450.000MHz
2460.000MHz
2470.000MHz
2480.000MHz
2490.000MHz
2500.000MHz





Passive Apple Diagram

