

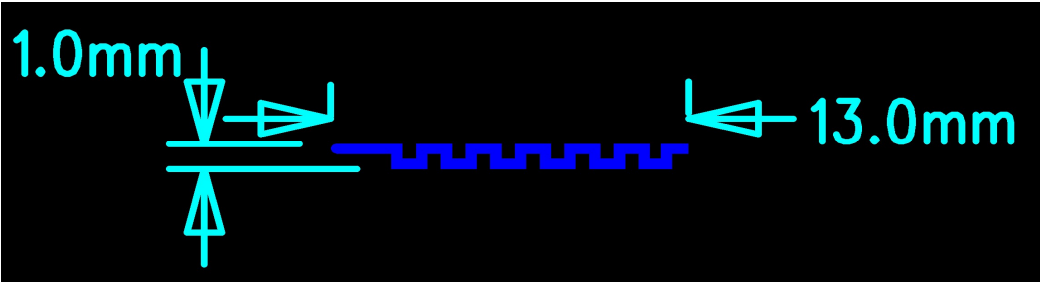
2. 4G-2. 48G 频段板载PIFA天线测试报告

2. 4G-2. 48G Antenna Specification

SPECIFICATIONS	
ITEM	ANT SPEC
Model Name	2.4G onboardANT
MAX.Gain	0. 5dBi
Polarization	Horizontal and Vertical
Azimuth Beam pattern	Omni-directional
Impedance	50 Ohm
Antenna Length	13. 0mm
Manufacture	Shenzhen Junyue Internet Technology Co., Ltd

Add:Rm 1502, 15/F, Tower A, Billion Centre, 1 Wang Kwong Rd, Kowloon Bay, Kowloon, Hong Kong

Antenna Photo & Length (mm)



1.测试工具

矢量网络分析仪&综测仪	Agelent Techmologies E5071B & R&S CMW500
暗室	Atenlab M3
测试工程师	庄志成
温度	25℃
湿度	65% (RH)

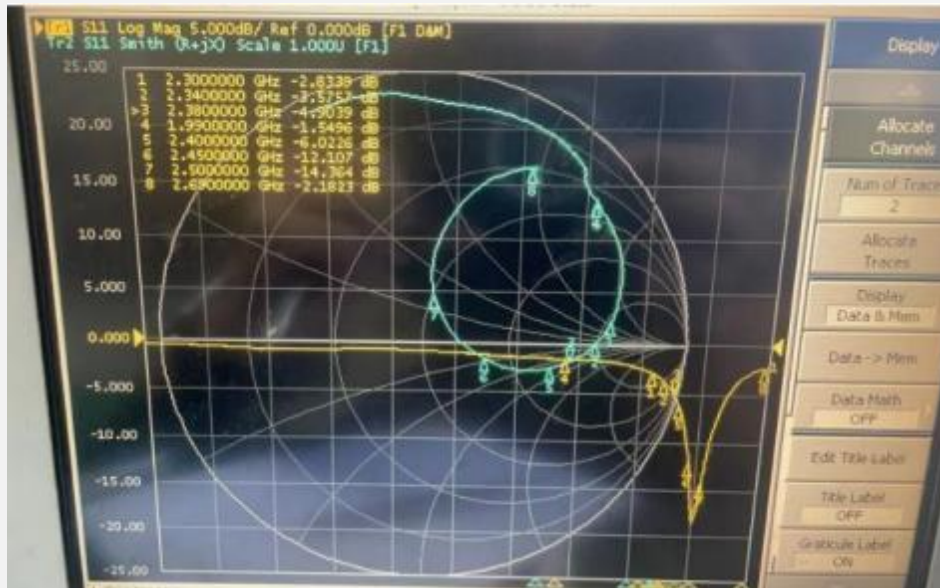


天线回波损耗及驻波比

Li Tongchuang ANT S11 parameter Summary

Band	2400–2500 (MHz)		
	2400	2450	2500
R. L (dB)	-6.02	-12.2	-14.36
VSWR	3.01	1.66	1.46

LOG

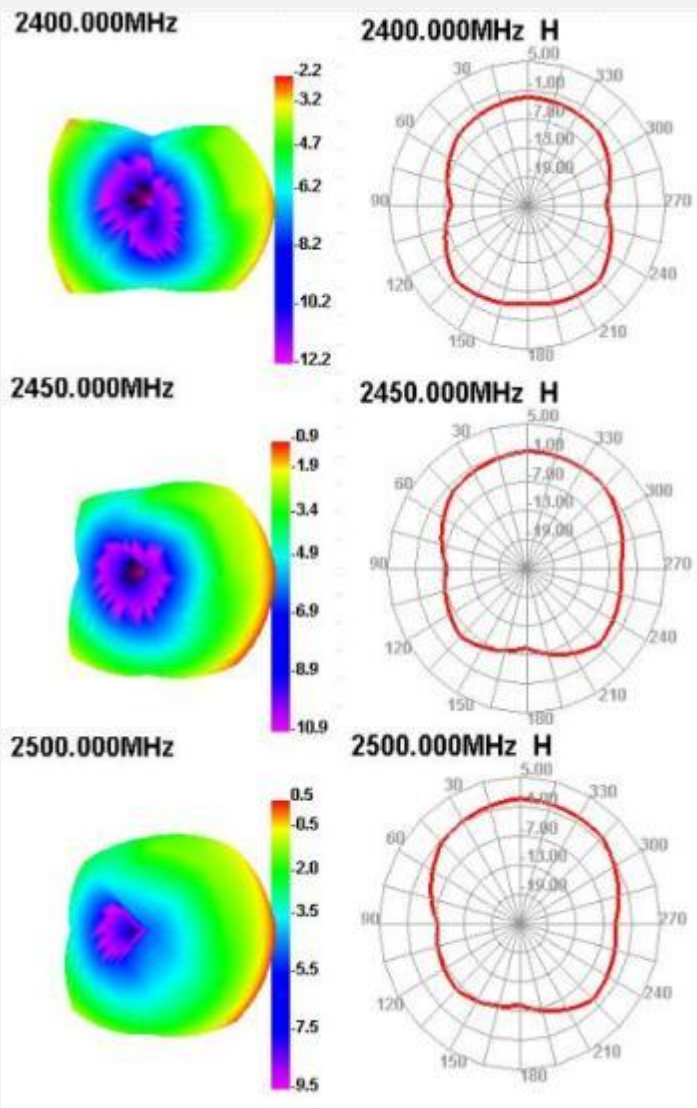


VSWR



蓝牙耳机自由空间无源测试数据

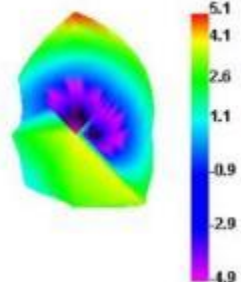
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	27.58	-5.59	-2.18
2410	26	-5.85	-2.24
2420	25.52	-5.93	-1.79
2430	25.44	-5.95	-1.5
2440	27.69	-5.58	-0.96
2450	28.93	-5.39	-0.85
2460	28.3	-5.48	-0.96
2470	28.43	-5.46	-0.9
2480	30.56	-5.15	-0.35
2490	33.84	-4.71	0.21
2500	35.31	-4.52	0.5



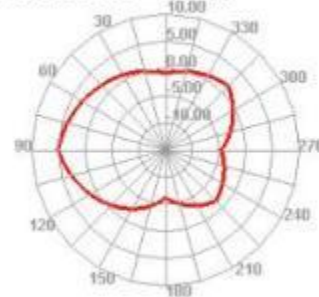
蓝牙耳机OTA自由空间有源测试数据

Test Result	Bluetooth TRP		
	0	39	78
Frequency (MHz)	2402	2441	2480
TRP(dBm)	0.19	0.06	0.14
NHPRP(dBm) 45	0.19	0.06	0.14
MAX(dBm)	5.09	4.34	4.37
EIRP peak	5.09	4.34	4.37
Min(dBm)	-11.24	-10.13	-13.98
Test Result	Bluetooth TIS		
	0	39	78
Frequency (MHz)	2402	2441	2480
TIS(dBm)	-85.79	-85.42	-85.86
NHPIS(dBm) 45	-85.79	-85.42	-85.86
RSSIAve	1.05	-0.26	0.21
MaxPosRSSI	3.79	3.59	3.8
MaxPosSens	-88.53	-89.28	-89.46
MAX(dBm)	5.95	4.02	4.44
EIS peak	5.95	4.02	4.44
Min(dBm)	-10.38	-10.45	-13.91

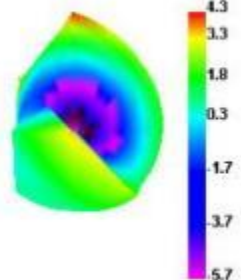
Bluetooth 0 TRP



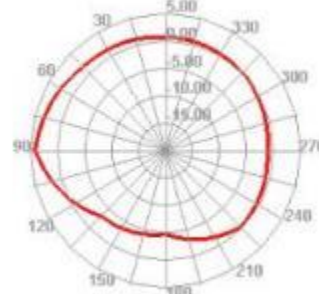
Bluetooth 0 TRP H



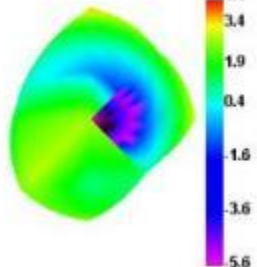
Bluetooth 39 TRP



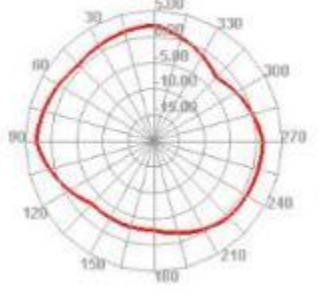
Bluetooth 39 TRP H



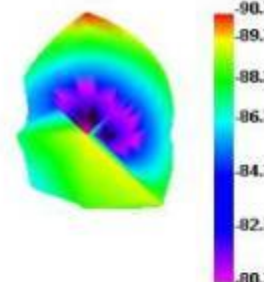
Bluetooth 78 TRP



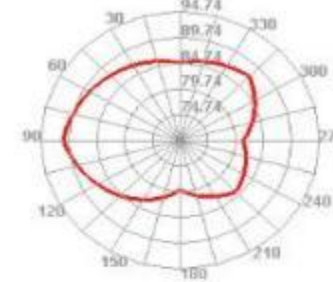
Bluetooth 78 TRP H



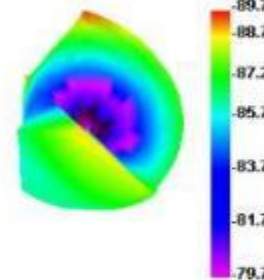
Bluetooth 0 TIS



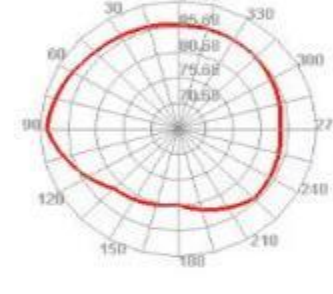
Bluetooth 0 TIS H



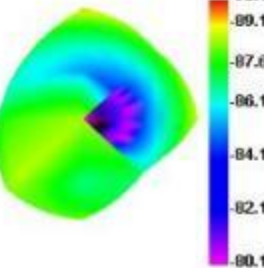
Bluetooth 39 TIS



Bluetooth 39 TIS H



Bluetooth 78 TIS



Bluetooth 78 TIS H

