

Remote Control Antenna Calibration Report _20230829

Bill.Ren
2023/08/29

Version	Time	Description
A1	2023/08/29	小鹏遥控器 Antenna first evaluation

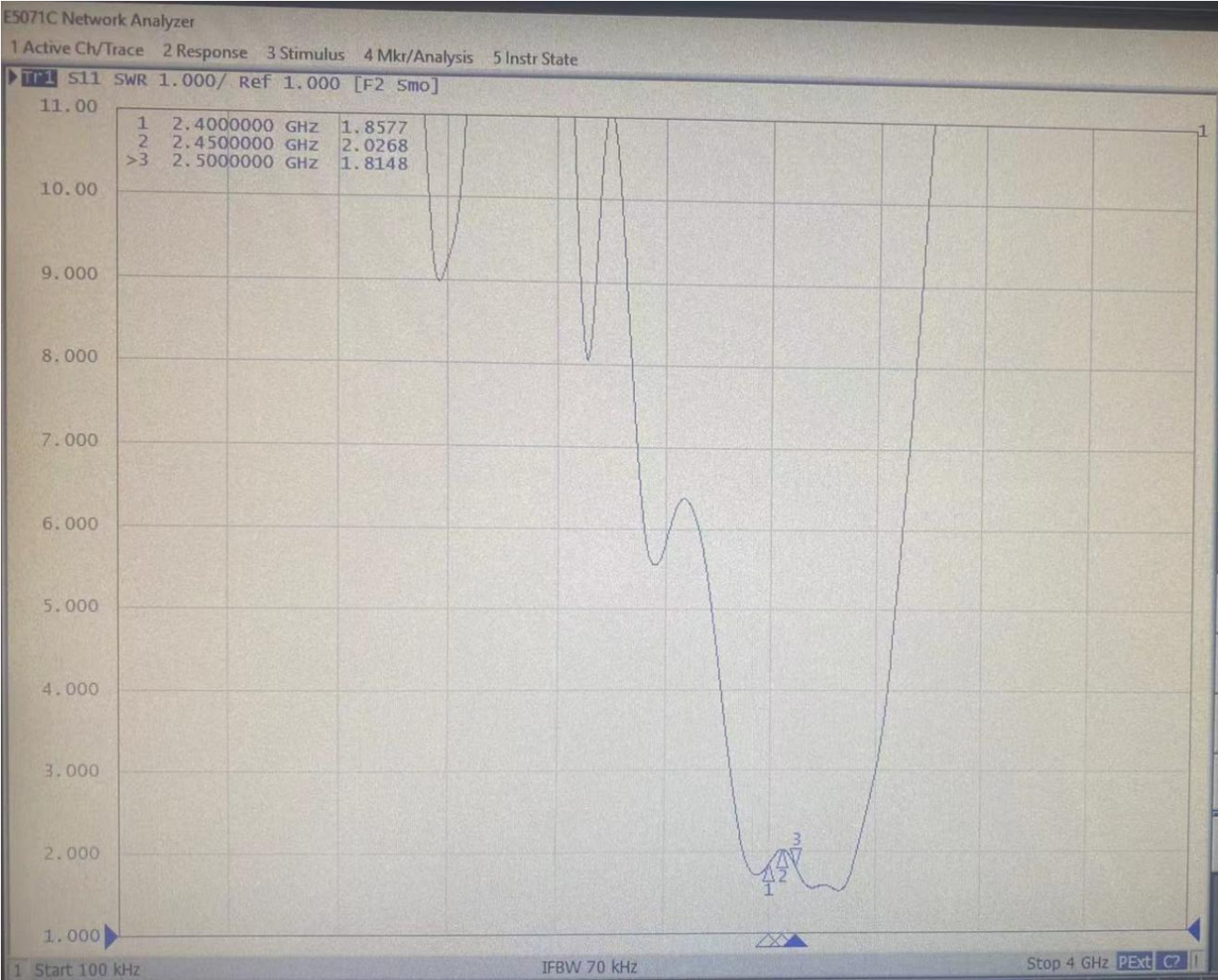
➤ Content

1. Antenna impedance VSWR;
2. Antenna Efficiency;
3. Antenna Gain;
4. Antenna Radiation 3D;
5. Antenna Radiation 2D;

Antenna VSWR as below:

Comments

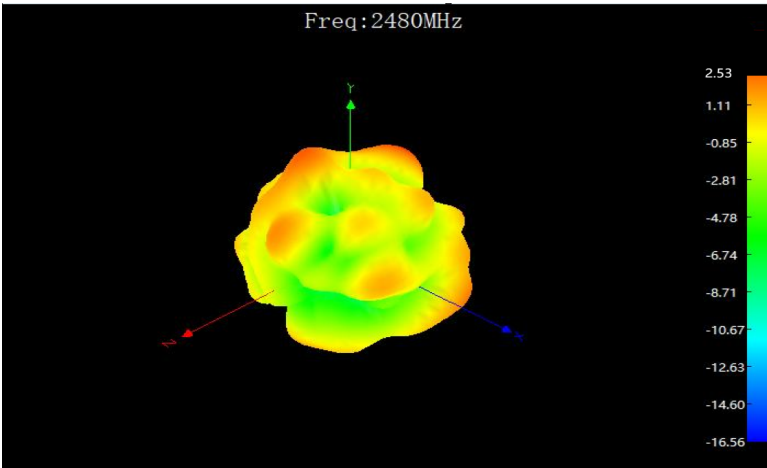
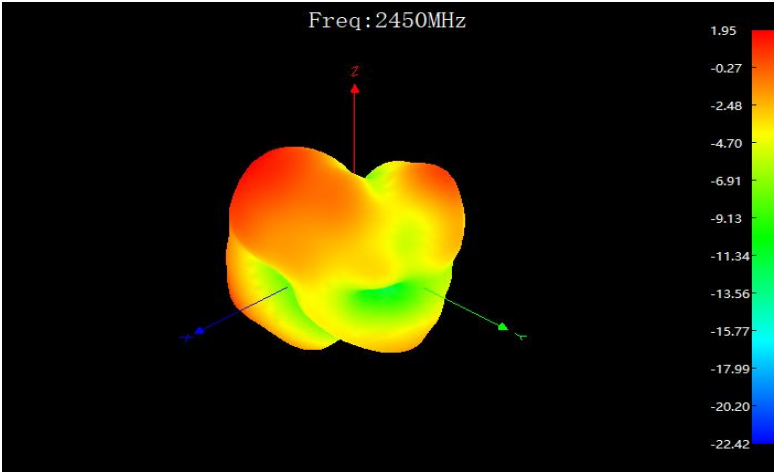
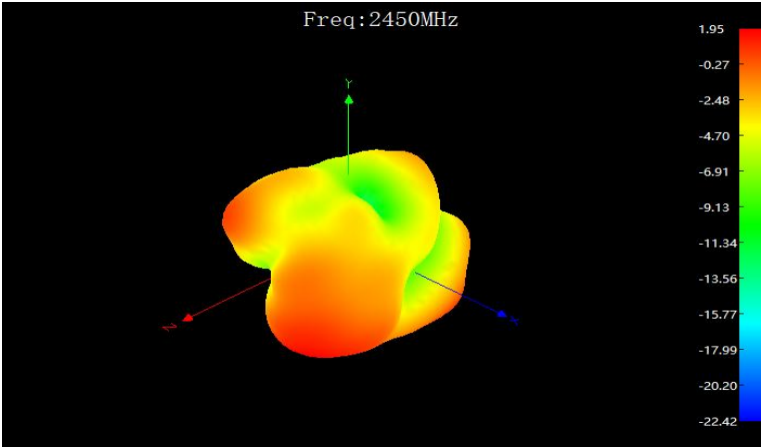
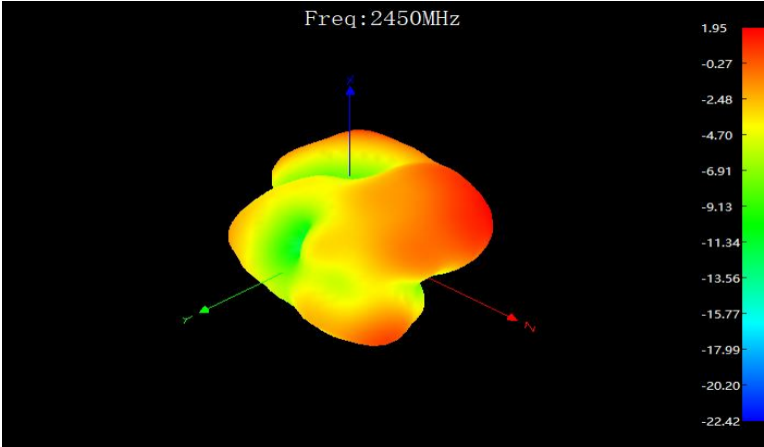
- VSWR
- 2400MHz: 1.8
- 2450MHz: 2.0
- 2500MHz: 1.8



Efficiency and Gain:

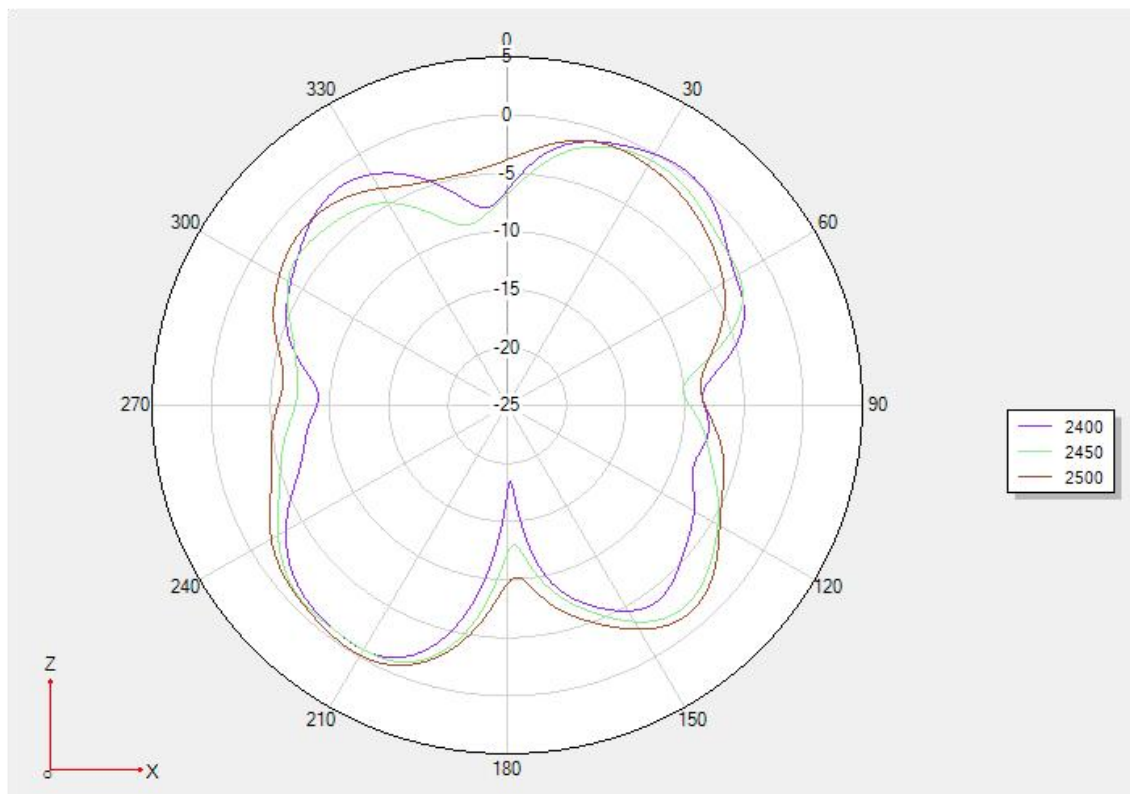
Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi	AvgGain/dBi
2400	-4.16	38.37	1.62	-4.16
2410	-3.95	40.27	1.21	-3.95
2420	-3.74	42.27	1.82	-3.74
2430	-3.79	41.78	1.66	-3.79
2440	-3.74	42.27	1.58	-3.74
2450	-3.62	43.45	1.95	-3.62
2460	-3.82	41.5	2	-3.82
2470	-3.7	42.66	1.5	-3.7
2480	-3.73	42.36	2.53	-3.73
2490	-3.68	42.85	2.55	-3.68
2500	-3.41	45.6	2.52	-3.41

Radiation 3D:

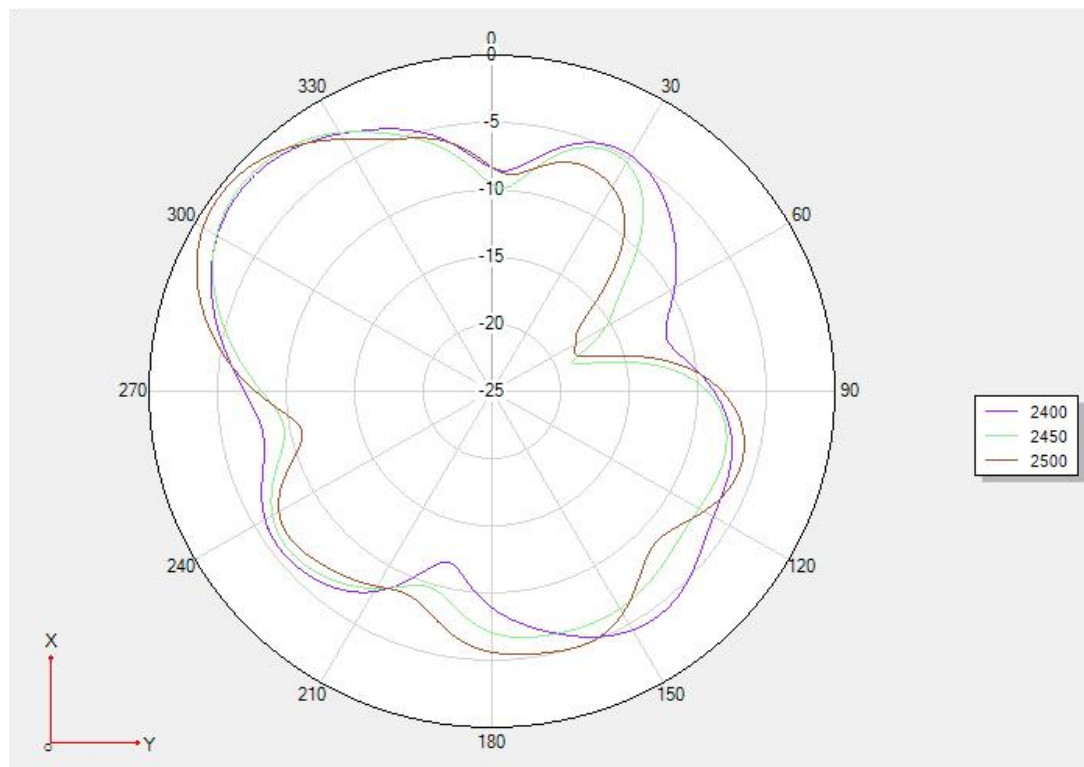


Radiation 2D:

$\Phi=0^\circ$



$\Theta=90^\circ$



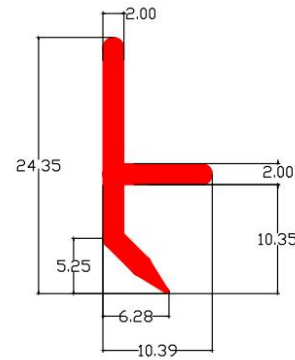
Actual Reciprocating Test

Connect the DUT to a mobile phone, slide on the remote control touchpad, and check whether the phone screen works normally.

Android phones: Communication distance ≥ 100 m

iPhones: Communication distance ≥ 100 m

PCB Antenna Dimension Drawing:



Antenna Manufacturer: Shanghai Loostone Information Technology Co., Ltd.

Manufacturer Address: Room 601, Building 9, No.351 Sizhuan Road, Sijing Town, Songjiang District, Shanghai, P.R.China

THANK YOU !