
深圳市六凡电子科技有限公司

机型 LF-Sound Dock-V7

WIFI Antenna Specification

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1. Project information and Electrical Specification

Those specifications were specially defined for 2.4G model, and all characteristics were measured under the model’s handset testing jig .

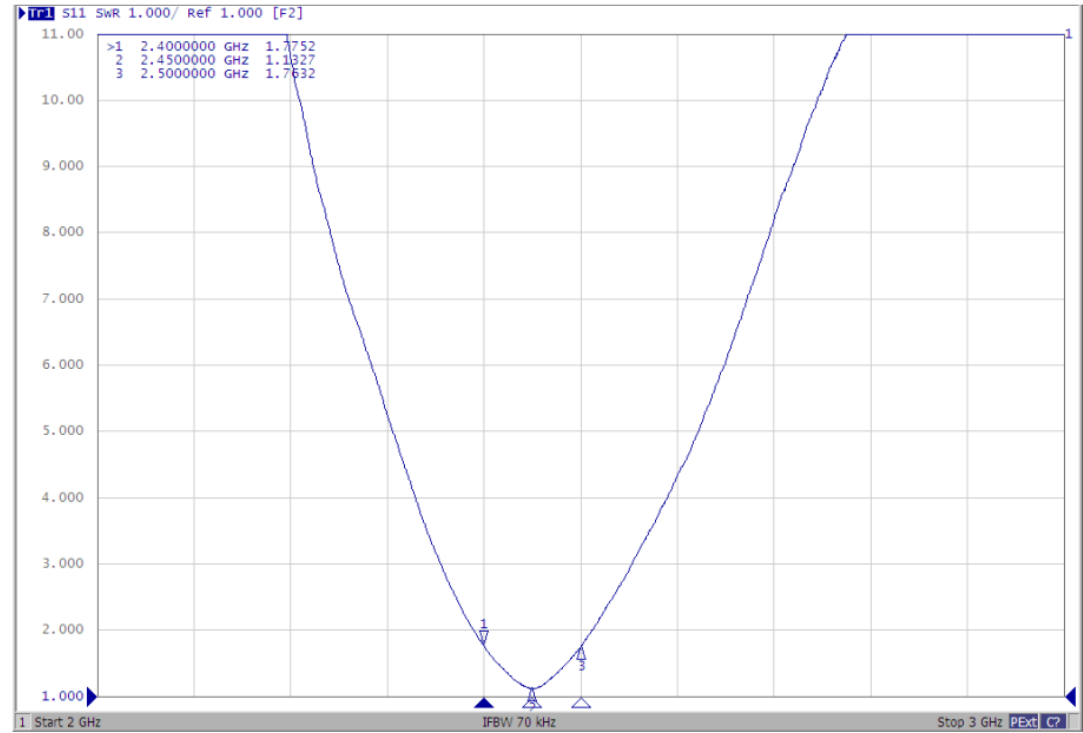
1-1Antenna picture

1-2 Frequency Band:

Frequency Band	MHz	Max Gain(dBi)
2.4G	2400-2500	1.29

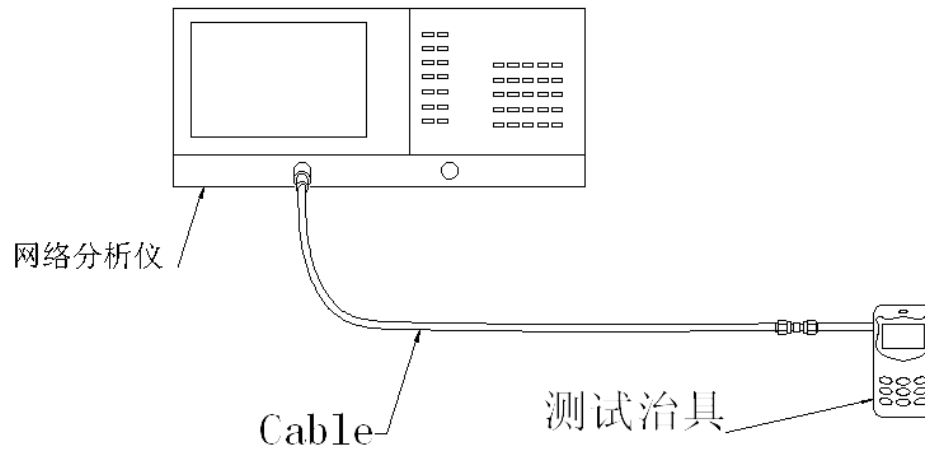
1-3 Impedance matching

2. VSWR



2-1 Measuring Method:

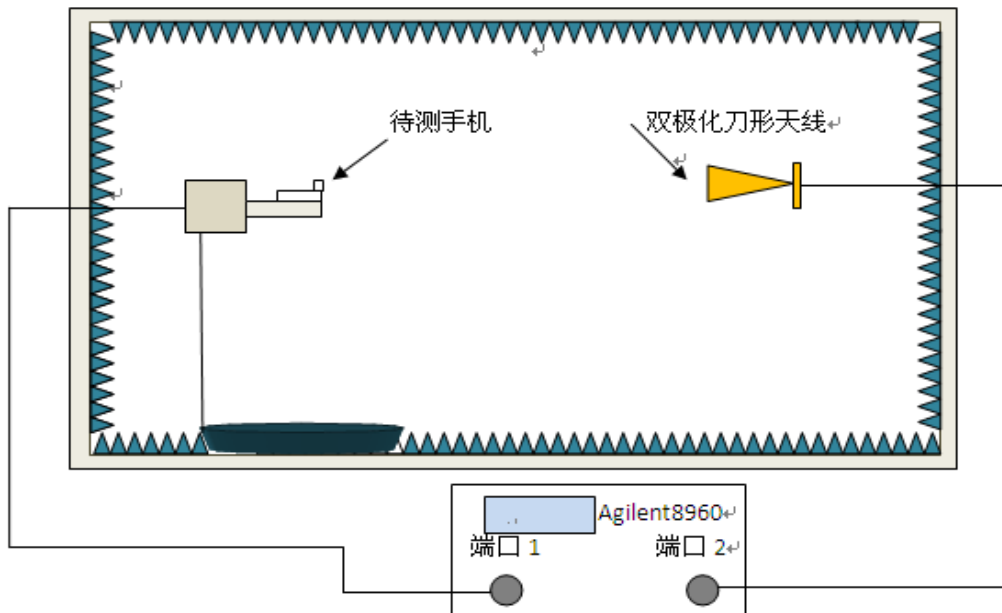
1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm.



2-2 S11 parameter values

频率 (MHZ)	2400	2450	2500
VSWR	1.7752	1.1327	1.7632

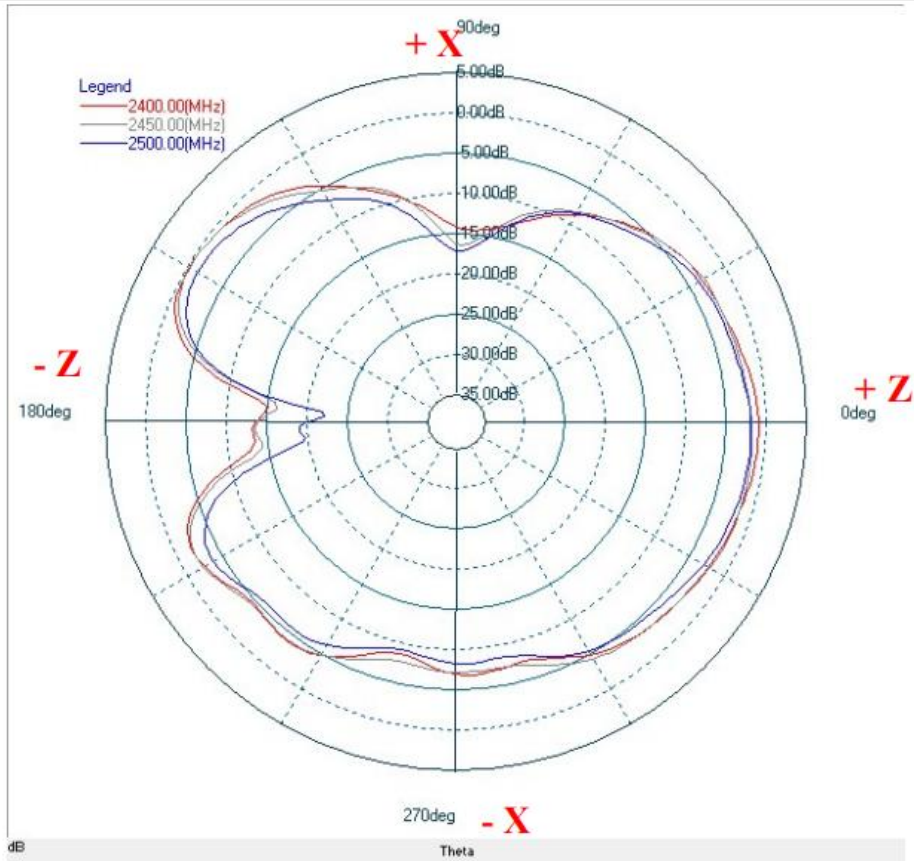
3. Efficiency and Gain



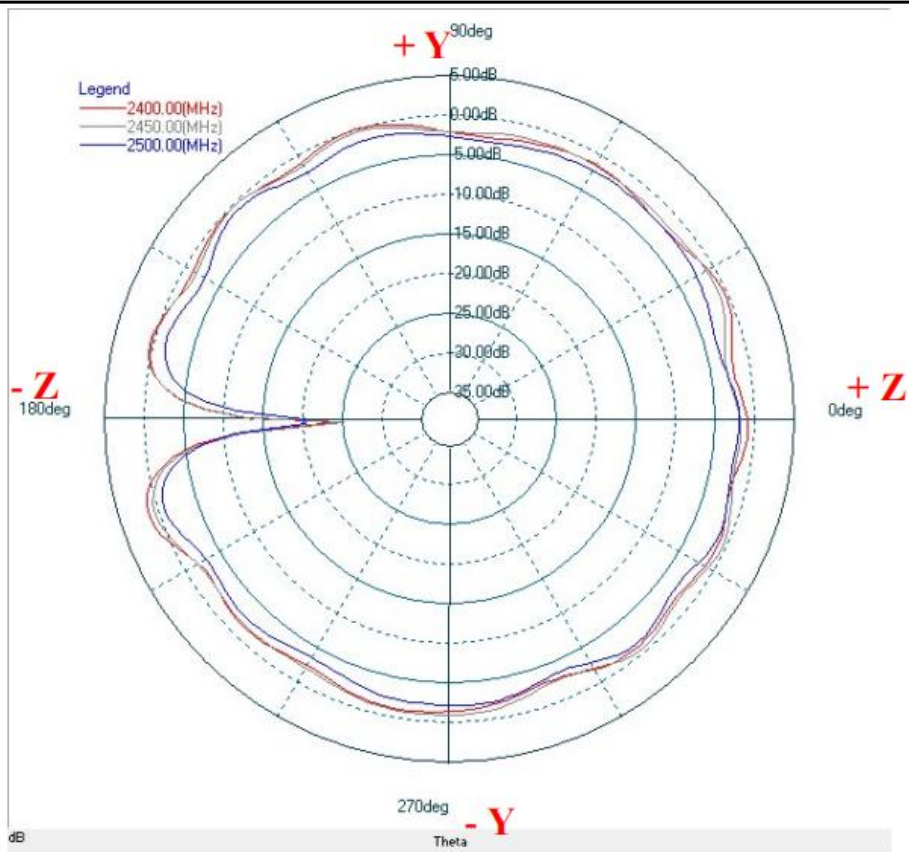
3-1 Efficiency/Gain- WIFI

Frequency Band	MHz	Max Gain(dBi)
2.4G	2400-2500	1.29

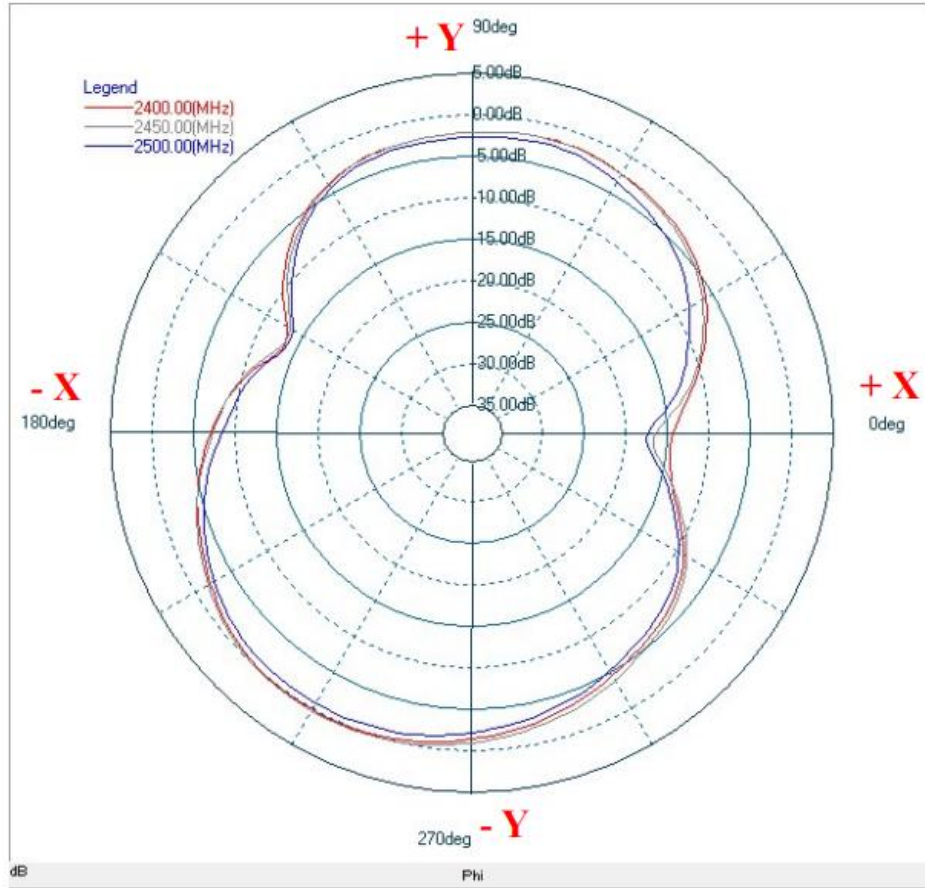
(XZ plane)



(YZ plane)



(XY plane)



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-0.23	-4.23	1.29	-1.46	0.04	-3.84
2450	-0.31	-4.40	0.52	-1.49	0.19	-3.72
2500	-1.39	-5.35	-0.79	-2.53	-0.83	-4.69