

国光电器股份有限公司
Guoguang Electric Company., Ltd.

规格承认书
SPECIFICATION APPROVAL

品名Part Name: HM03 蓝牙板载天线

送样日期Date:2026-03-06

地址: 广州市花都区新雅街镜湖大道8号

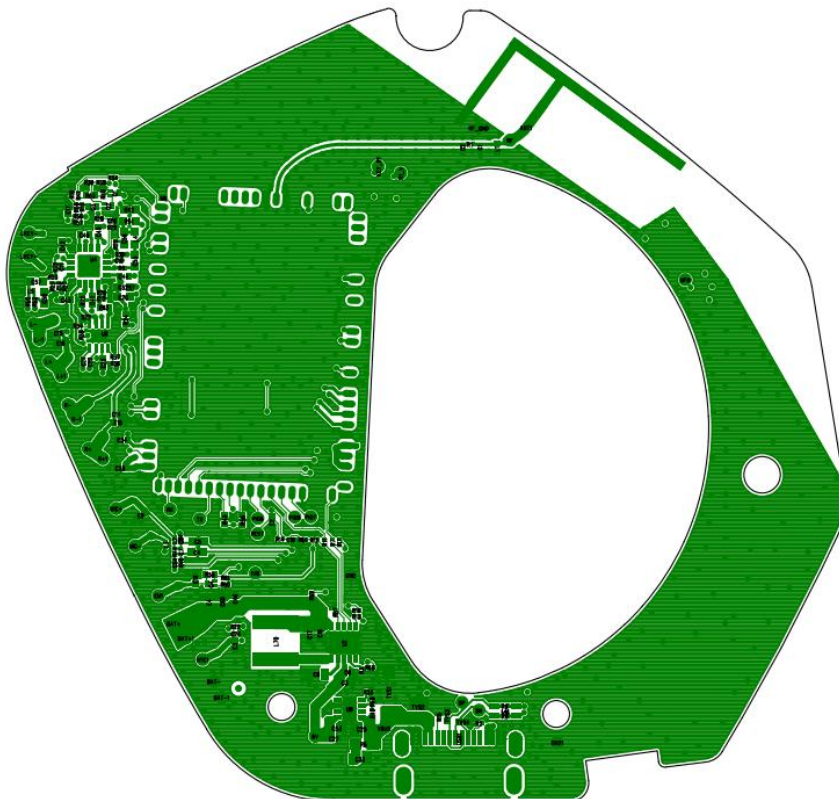
Address:No.8 Jinghu Road, Xinya Street, Huadu Reg, Guangzhou, China

天线规格书

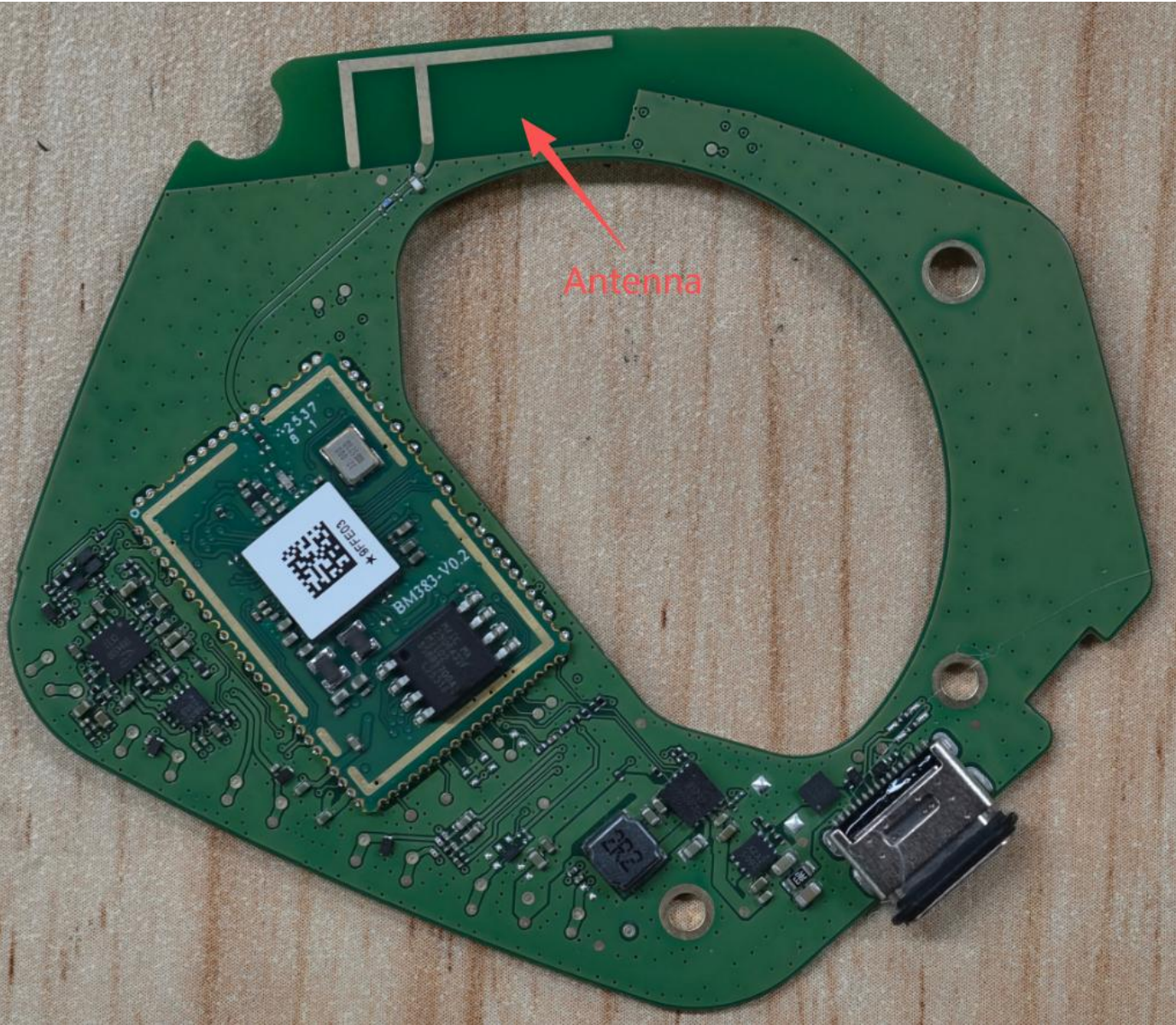
antenna specification

电性能Electrical properties	
频率范围frequency(MHz)	2400-2480MHz
阻抗Impedance(Ω)	50
电压驻波比VSWR	≤ 2
峰值增益Peak Gain (dBi)	≤ 3.14 dBi
辐射方向Radiation	全向天线Omni-directional
极化方式Polarization	线极化Linear
物理性能Physical properties	
天线类型Antenna type	板载天线printed antenna
工作温度Operating temp.	-40--+85 °C
存储温度/湿度Storage Temp/Humidity	25 $\pm$ 5 °C

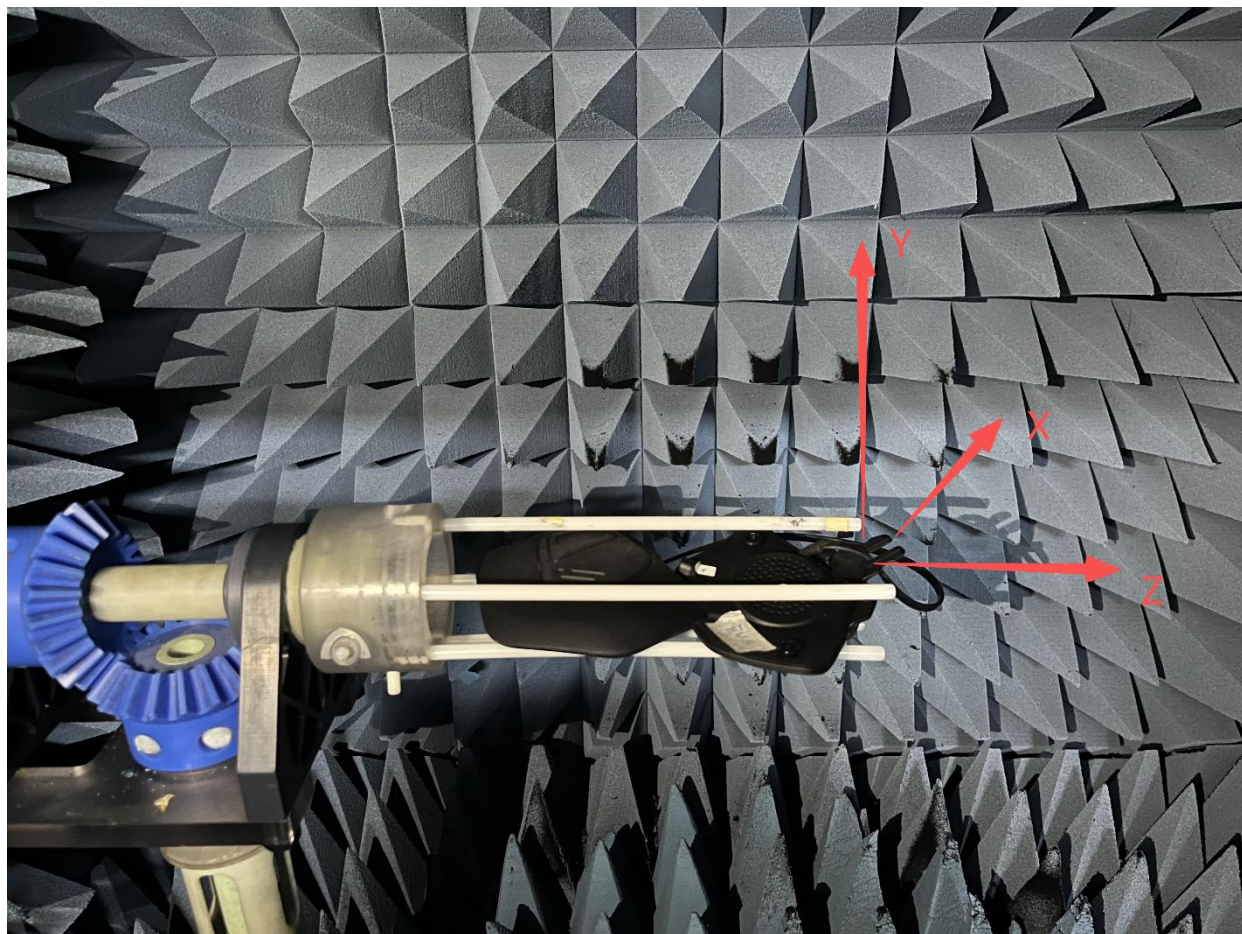
天线图纸Antenna drawings



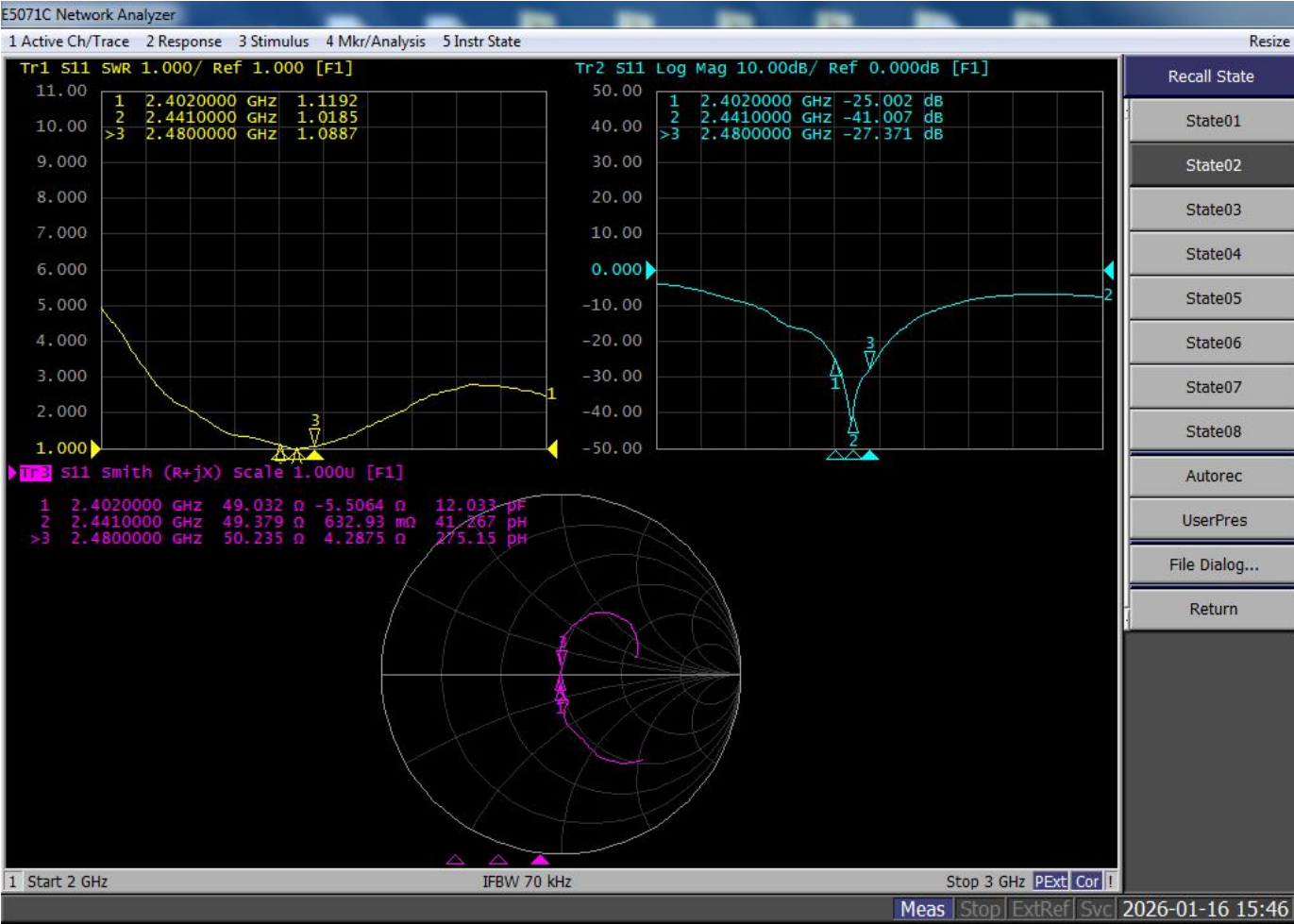
整机及天线位置Assembly& Antenna location



暗室及坐标Chamber & Coordinates



天线S参数 S11 parameters

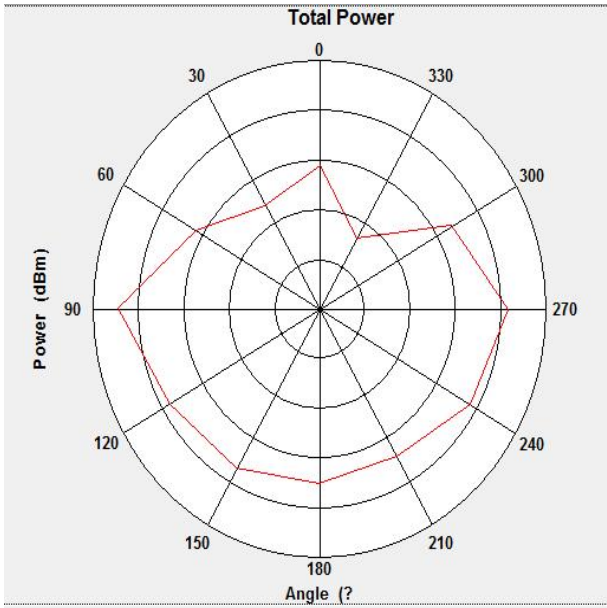
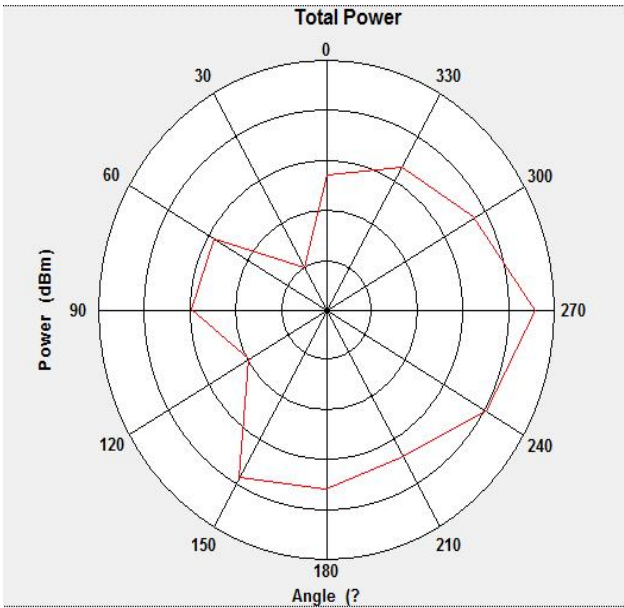
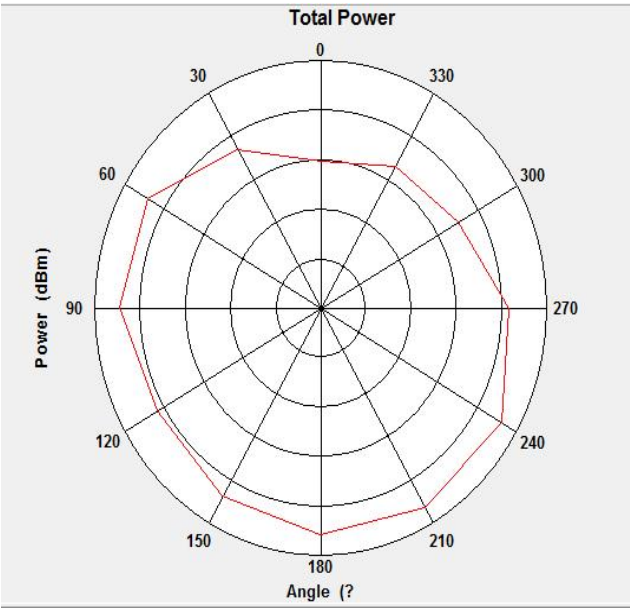
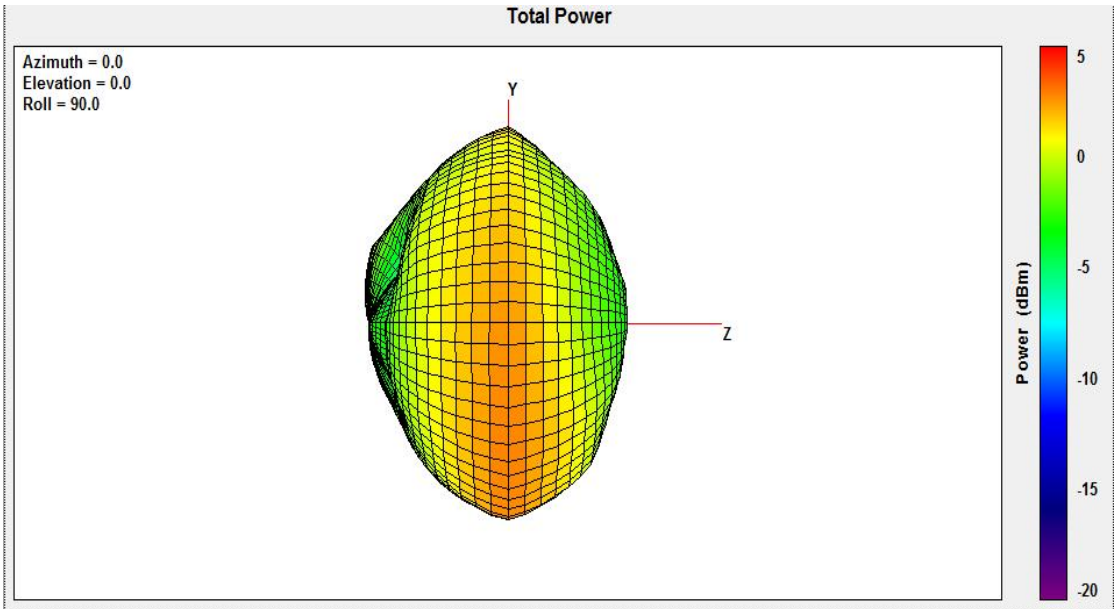


天线效率及增益 Efficiency & Peak Gain

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	72.05	-1.42	3.10
2410	72.35	-1.41	2.81
2420	73.27	-1.35	2.78
2430	73.78	-1.32	2.94
2440	75.83	-1.20	3.14
2450	75.83	-1.20	3.04
2460	75.81	-1.20	3.01
2470	75.80	-1.20	2.97
2480	75.42	-1.23	3.13

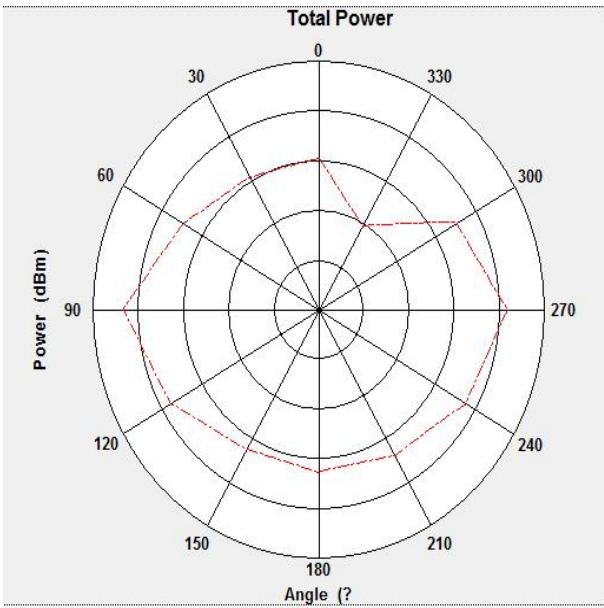
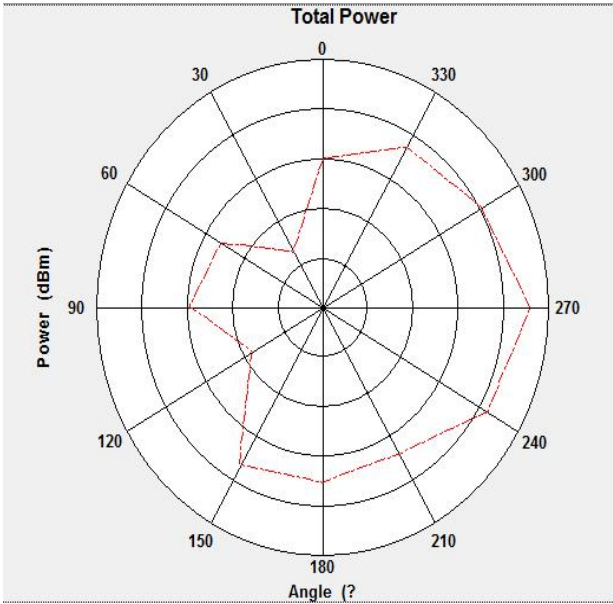
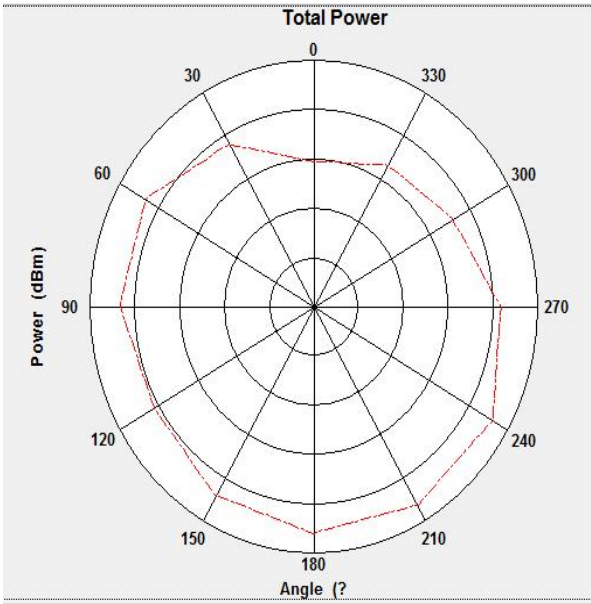
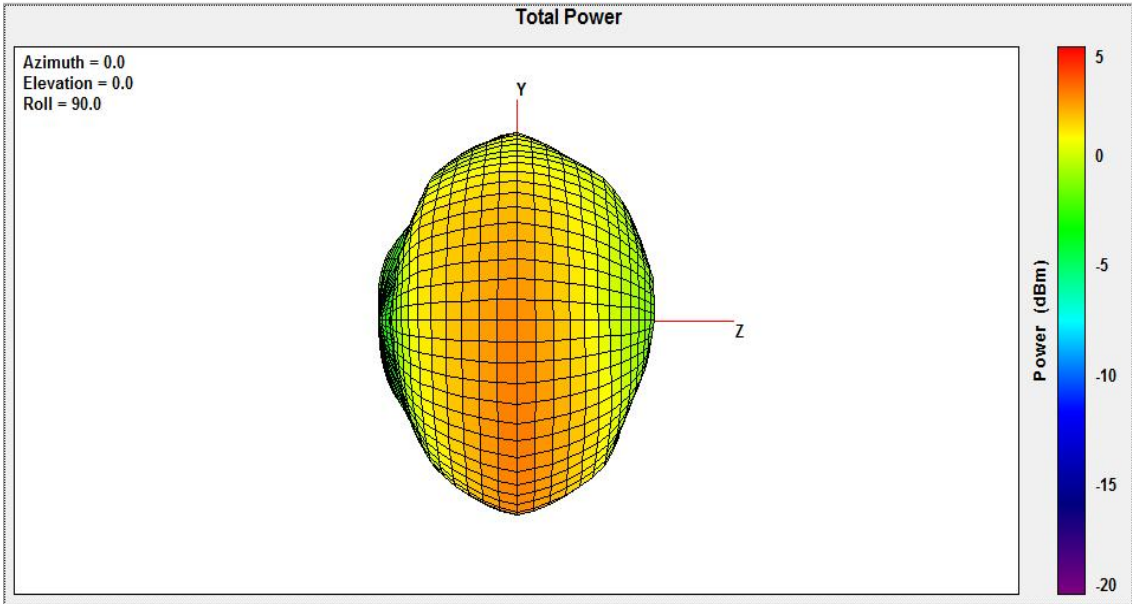
天线辐射方向图Radiation pattern

2400MHz



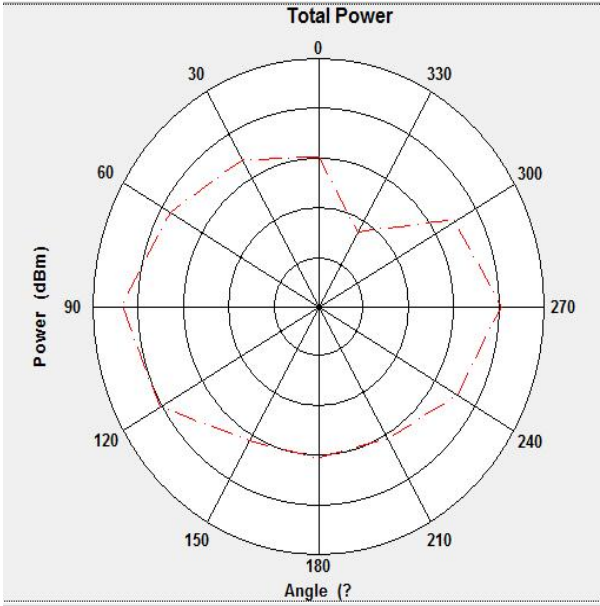
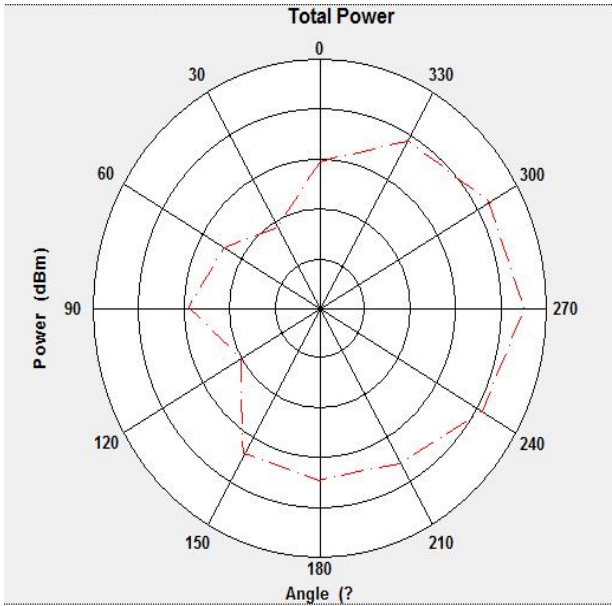
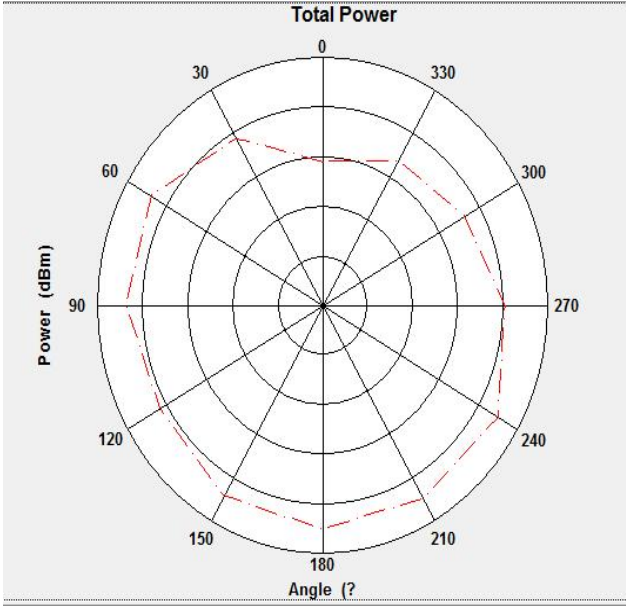
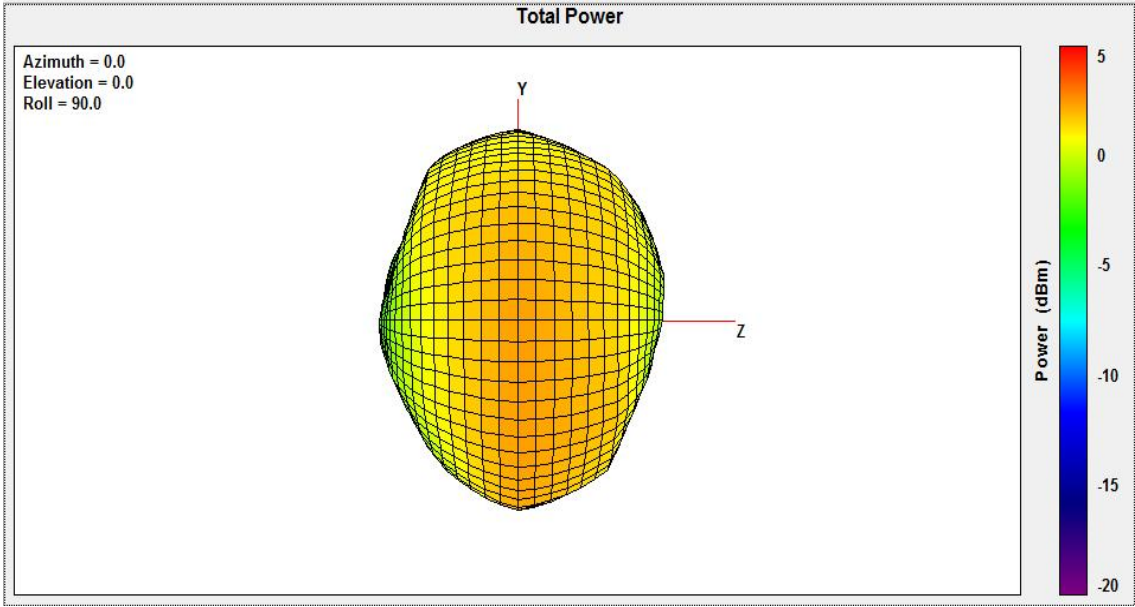
天线辐射方向图Radiation pattern

2440MHz



天线辐射方向图Radiation pattern

2480MHz



谢谢

thanks