



深圳市凯普深通讯科技有限公司

Shenzhen cape deep communication technology co., LTD

G50天线测试报告

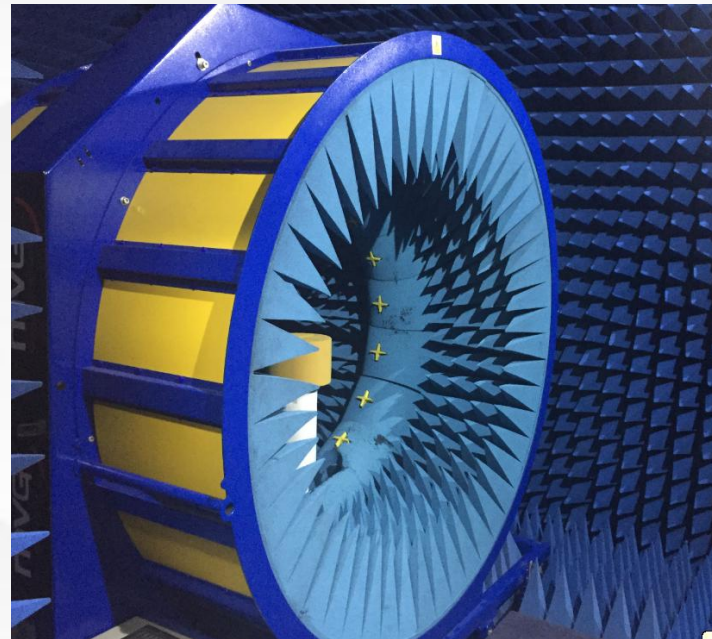
G50 Antenna Test Report



凯普深

实验室测试环境及设备

Laboratory testing environment and equipment



Test items	Testing equipment
S11、S12、VSWR、LOSS	Network analyzer E5071B 、 E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16 & GP7*4*3 Darkroom、 E5071B
TRP、TIS	Satimo SG16 & GP7*4*3 Darkroom、 8960 、 CMW500 、 MT8820C 、 E4438C 、



项目调试简介

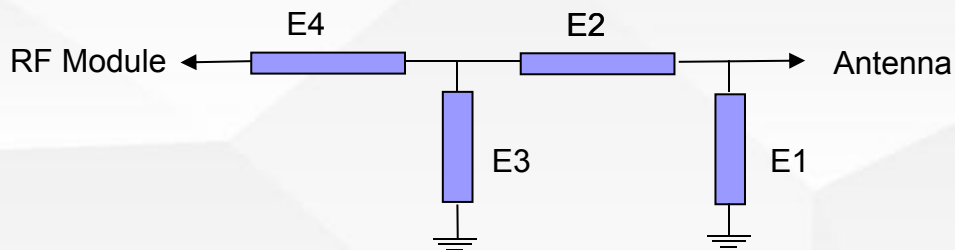
Project commissioning

		整机类型 Type of complete machine		
		频段信息 Frequency band	天线形式 antenna form	
天线及频段信息 information	天线 antenna	2400-2480M	monopole	
天线材质 material	wire(0.8 mm*20mm)			



BT天线匹配电路

BT antenna matching circuit



	Element	Value	
SMART WATCH	E1(0201)	2.4NH	
	E2(0201)	0 Ω	
	E3(0201)	N/C	



天线无源效率图 efficiency&gain

free Unblocking

Gain(dBi) : -2.99dB

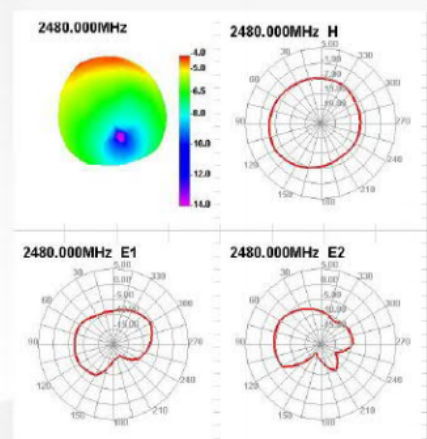
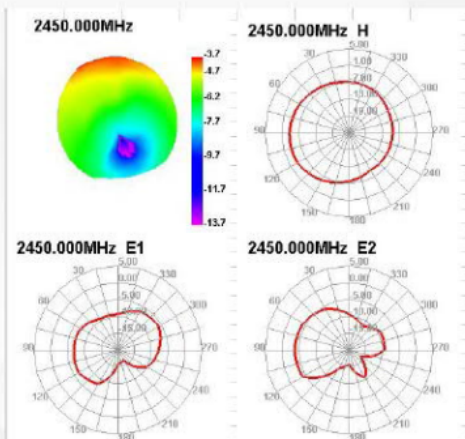
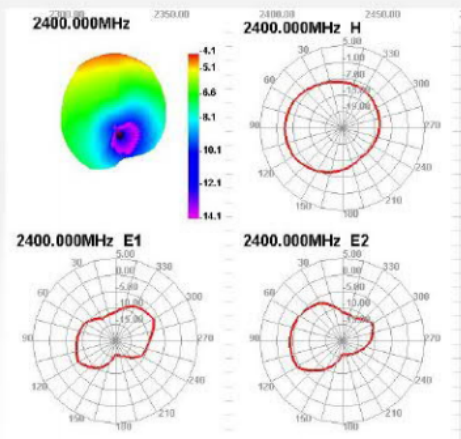
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	20.47	-6.89	-3.07
2410	18.49	-7.33	-3.67
2420	19.47	-7.11	-3.64
2430	20.77	-6.83	-3.4
2440	23.15	-6.35	-2.92
2450	23.73	-6.25	-2.99
2460	22.8	-6.42	-3.16
2470	21.08	-6.76	-3.45
2480	21.28	-6.72	-3.39
2490	22.7	-6.44	-3.06
2500	23.94	-6.21	-2.88



天线无源测试苹果图

Antenna passive testing 3D diagram

Free

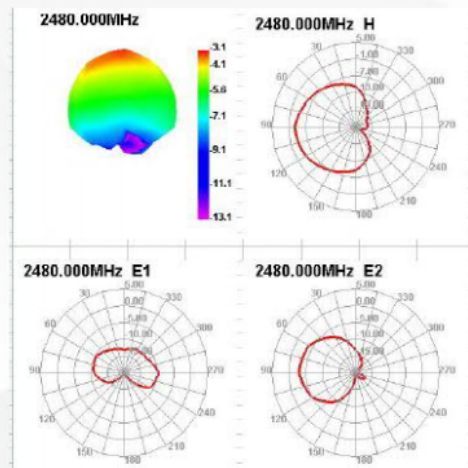
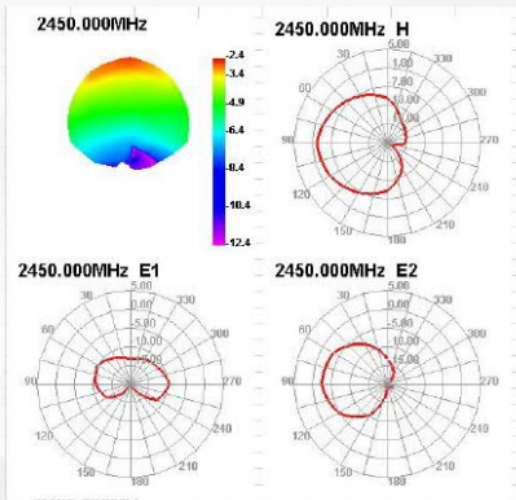
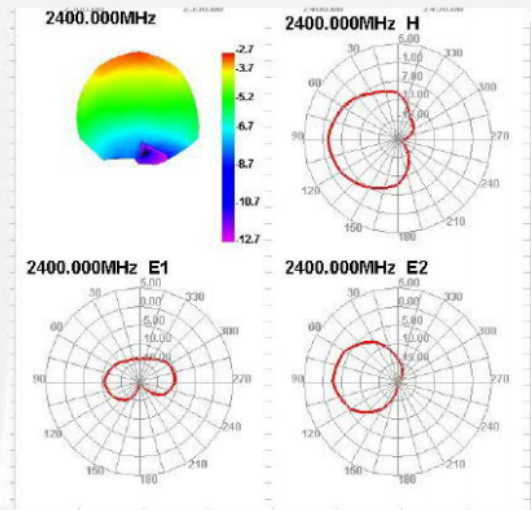




天线无源测试苹果图

Antenna passive testing 3D diagram

Manual mode





天线无源效率图 efficiency&gain

手模 Manual mode

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	5.25	-12.8	-6.53
2410	4.88	-13.12	-7.01
2420	5.27	-12.78	-6.78
2430	5.73	-12.42	-6.62
2440	6.49	-11.88	-6.21
2450	6.67	-11.76	-6.16
2460	6.51	-11.86	-6.39
2470	6.13	-12.13	-6.67
2480	6.31	-12	-6.67
2490	6.78	-11.69	-6.54
2500	7.15	-11.46	-6.36



天线尺寸 Antenna size

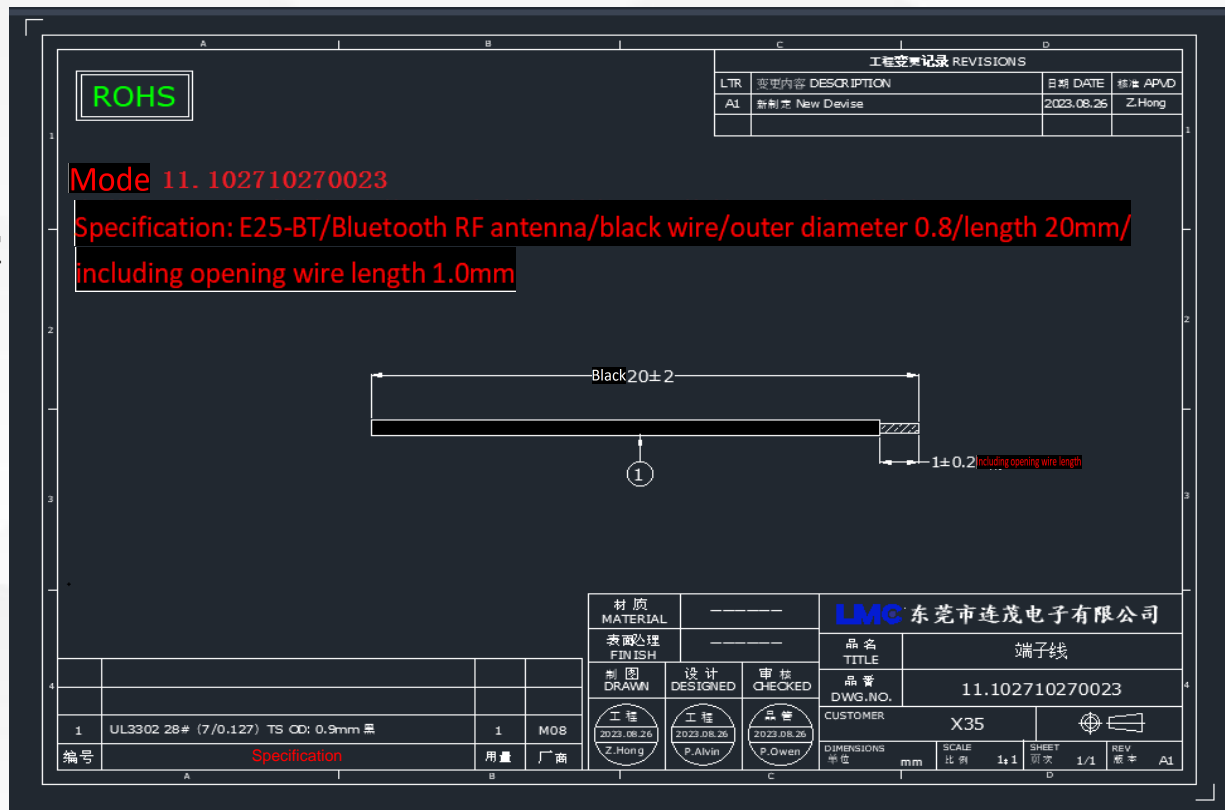
Antenna model 11.102710270023

Antenna manufacturer information :

东莞市连茂电子有限公司

DongGuang LMC Electronics Co., Ltd.

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天线摆放Antenna placement

