

EASYSING MICS 天线调试测试报告

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Antenna Model: FM103-TX



深圳市南斗星科技有限公司

专业的天线整体解决方案供应商

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一、天线图片

项目天线

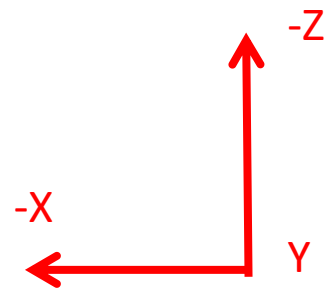
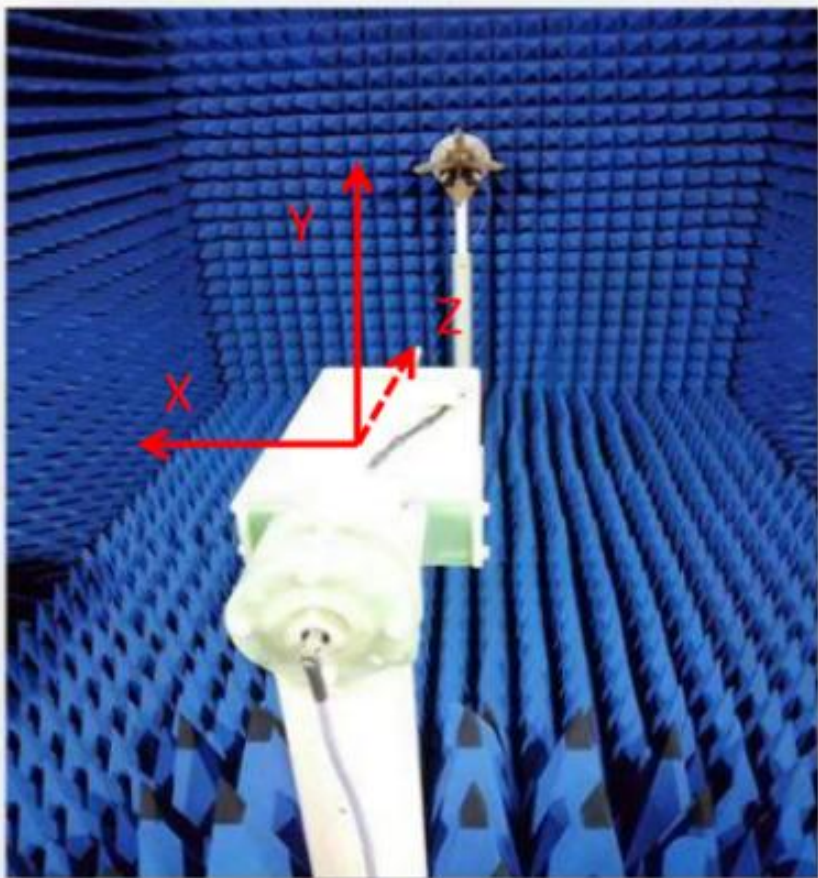


二、匹配变更

串位变更为4.3nH.其他匹配保持不变



三、暗室图片及转轴定义

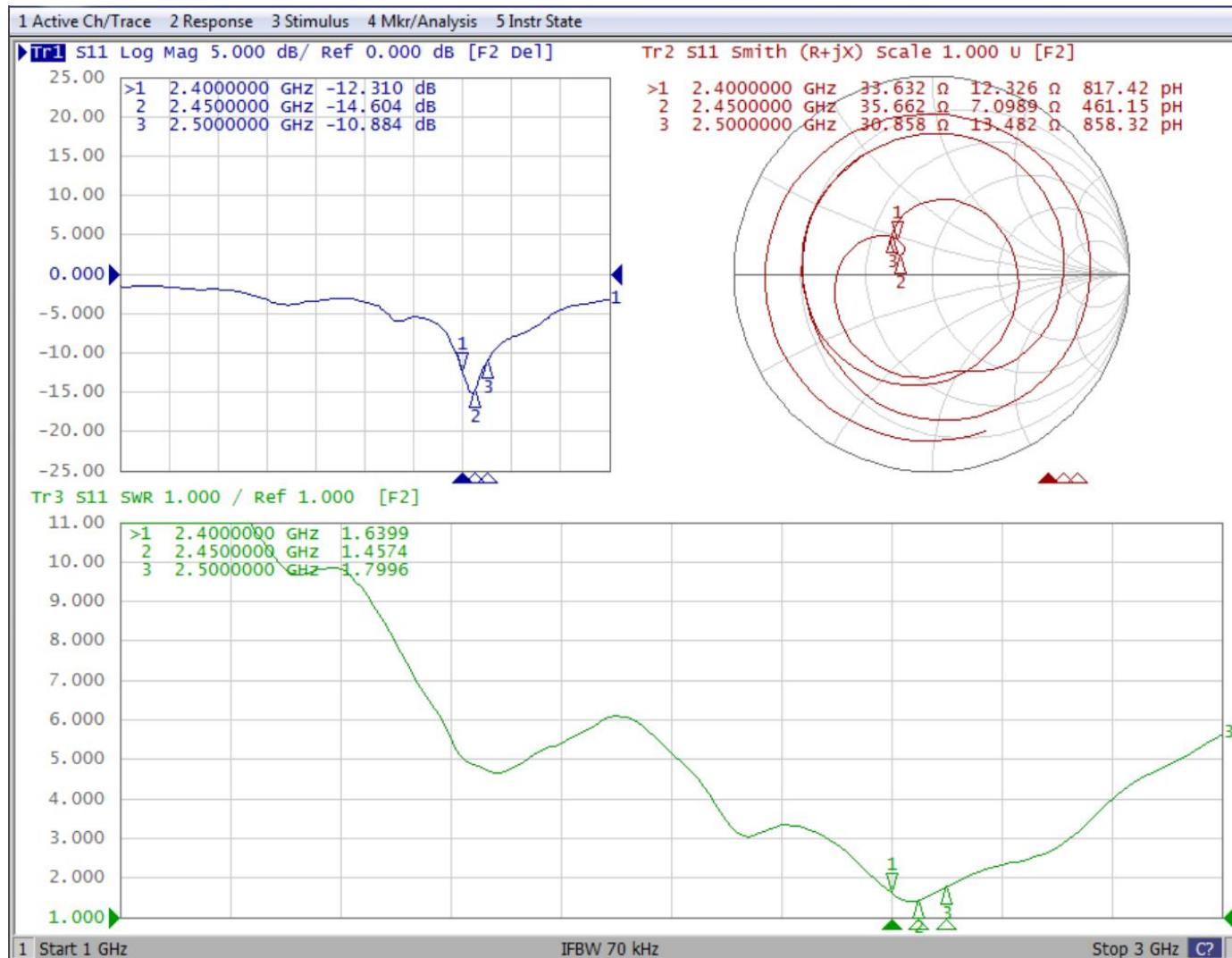


H 面: XOY轴;
E1面: XOZ轴;
E2面: YOZ轴;



四、天线测试无源参数_ANT

ANT_S11:



ANT_效率与增益:

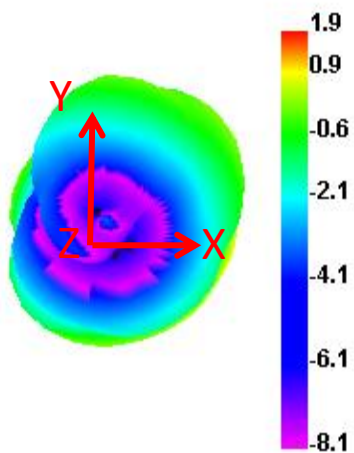
Freq (MHz)	Effi (%)	Gain (dBi)
2400	52.31	1.85
2410	51.17	1.69
2420	53.09	1.65
2430	54.91	1.69
2440	54.39	1.56
2450	54.11	1.64
2460	54.46	1.68
2470	55.02	1.75
2480	54.91	1.72
2490	55.48	1.78
2500	55.67	1.82

avg. 54.14

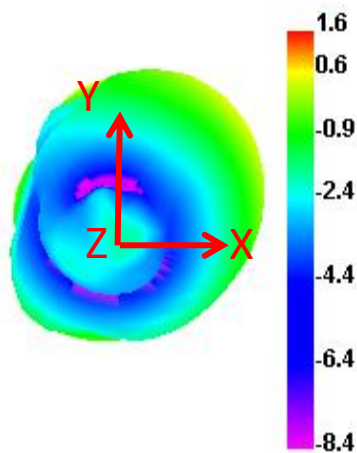


ANT_场型图3D:

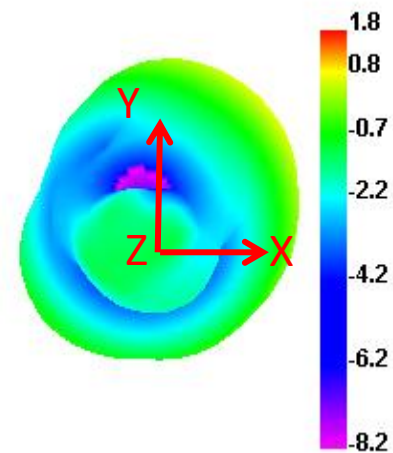
2400.000MHz



2450.000MHz



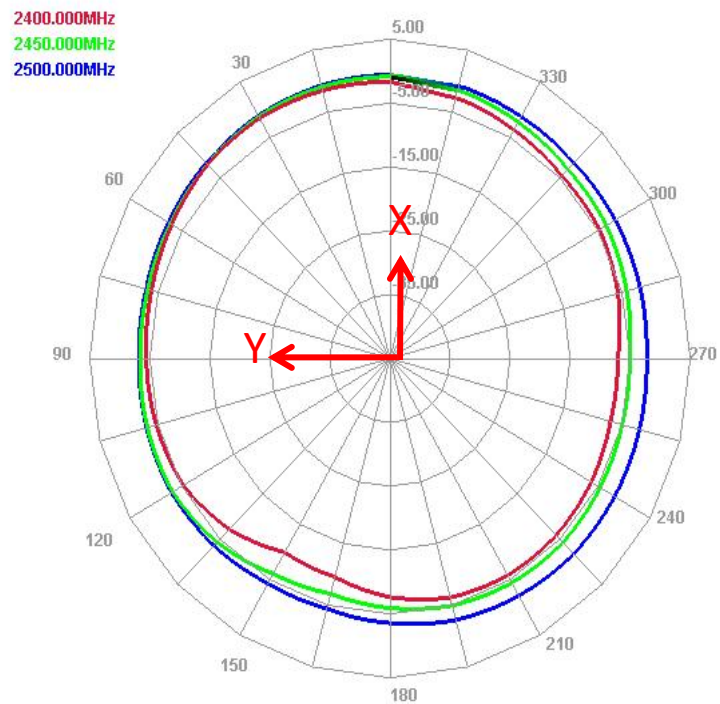
2500.000MHz



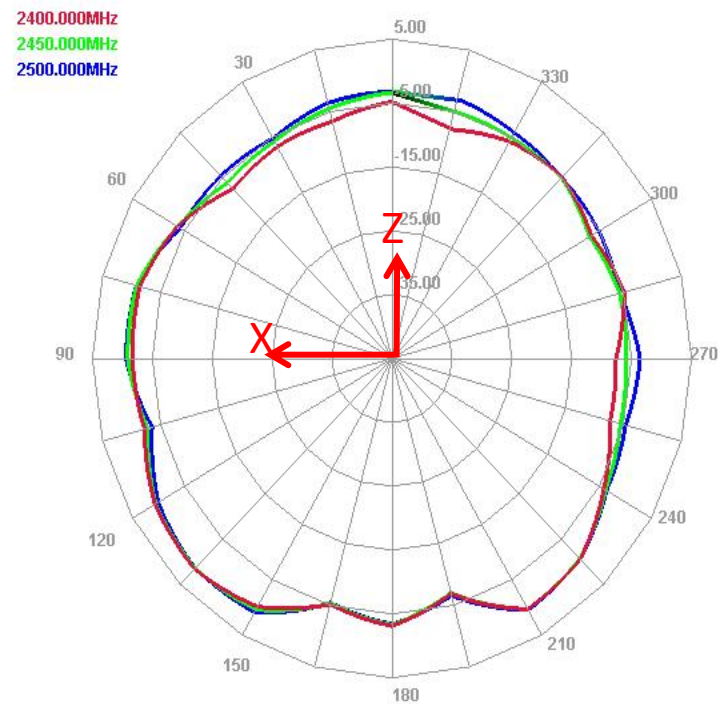


ANT_场型图2D:

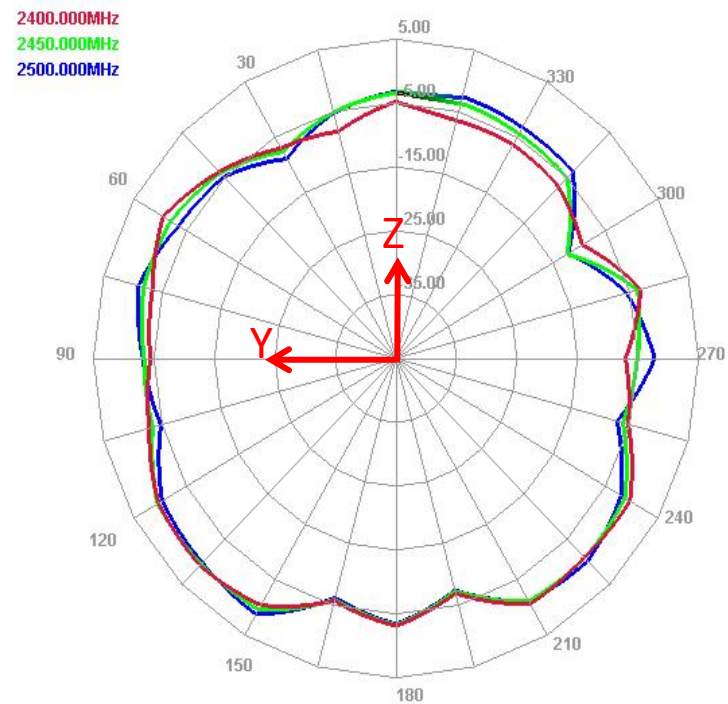
Horizontal



E1 Face



E2 Face





五、OTA数据

样机		FM103-TX		FM054-TX	
SRD	信道	TRP	TIS	TRP	TIS
	0	9.31	-89.06	9.79	-90.09
	39	8.78	-88.69	8.92	-89.66
	78	8.09	-88.01	8.66	-88.63



六、总结

1, 无源参数如下:

Antenna	
	天线无源参数
	2400~2500MHz
VSWR	<2
天线效率 Avg. Effi (%)	54%
Peak Gain (dBi)	1.85

2, RF板端Π型匹配有做变更.详情见P.4



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Thank you

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