

YONG CHENG INTERNATIONAL(OTA)

E3



艾创力测试报告

Antenna Test Report

◆ 日期 2023年9月08日

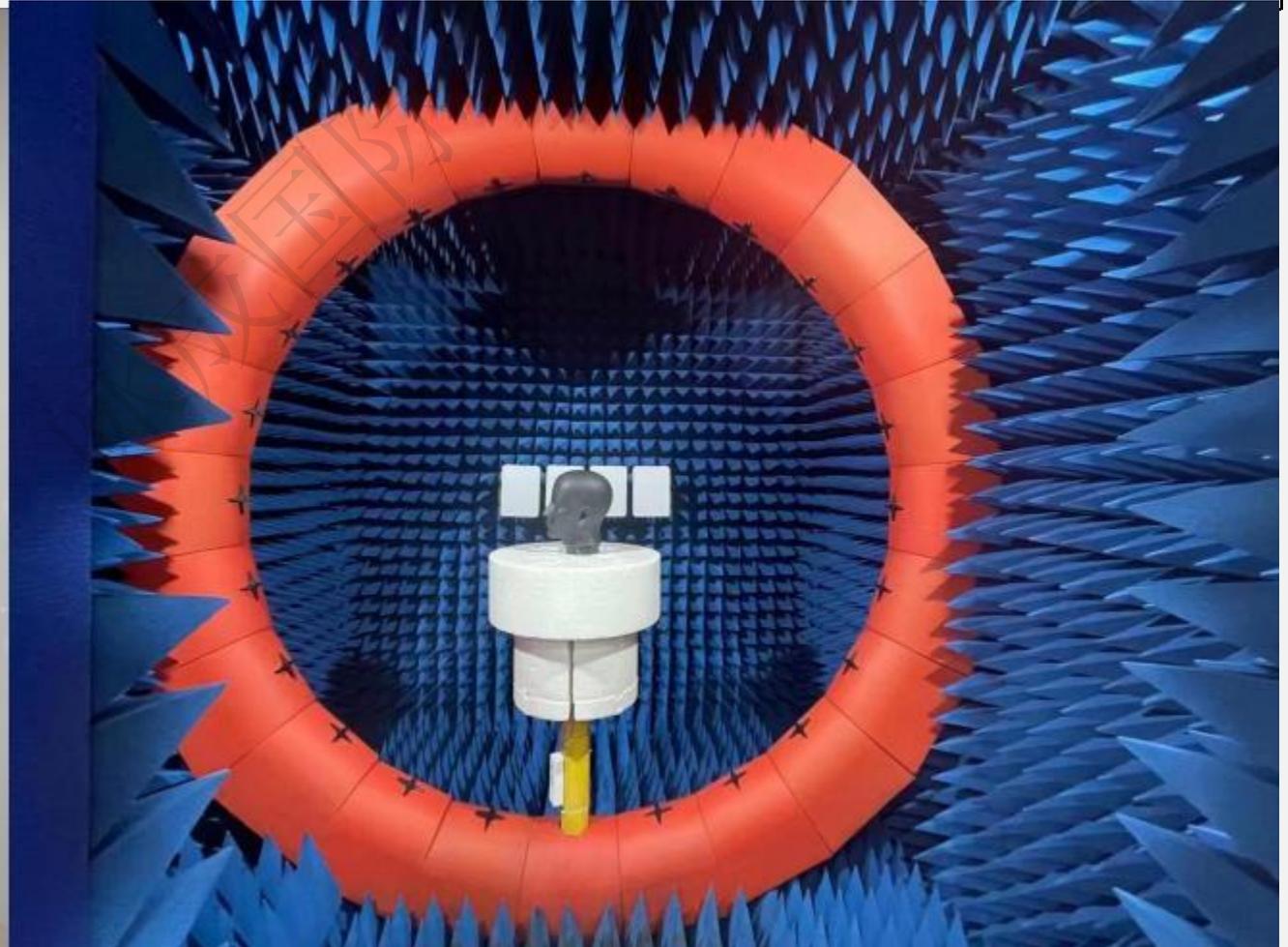
测试项目	
1	匹配参数
2	网分调试天线S参数
3	微波暗室测试OTA有源数据
4	微波暗室测试天线效率场型
5	拉距测试
6	装配事项
7	调试总结



Customer	艾创力	Project name	E3
frequency band	2400MHZ-2500MHZ	engineer:	CK
Date	2023/09/08	phone:	13530576606

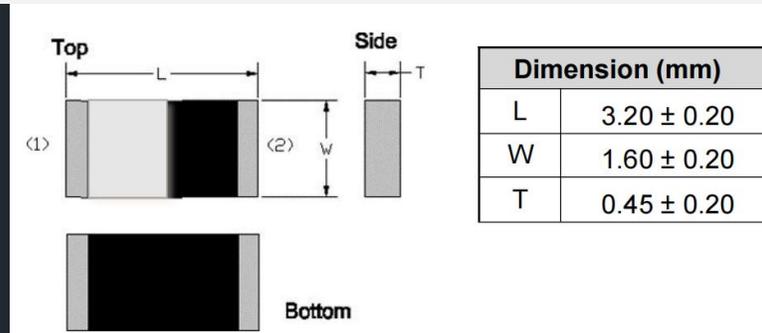
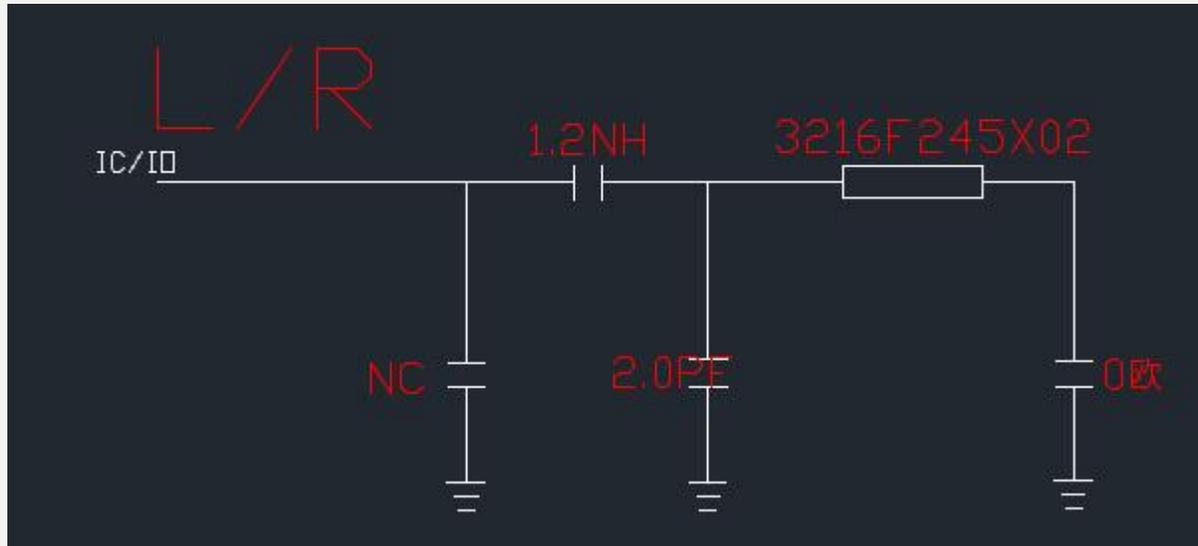
1.测试工具

矢量网络分析仪&综测仪	Agilent Technologies E5071B & R&s CMW500
暗室	Atenlab M3
测试工程师	CK
温度	25°C
湿度	65% (RH)



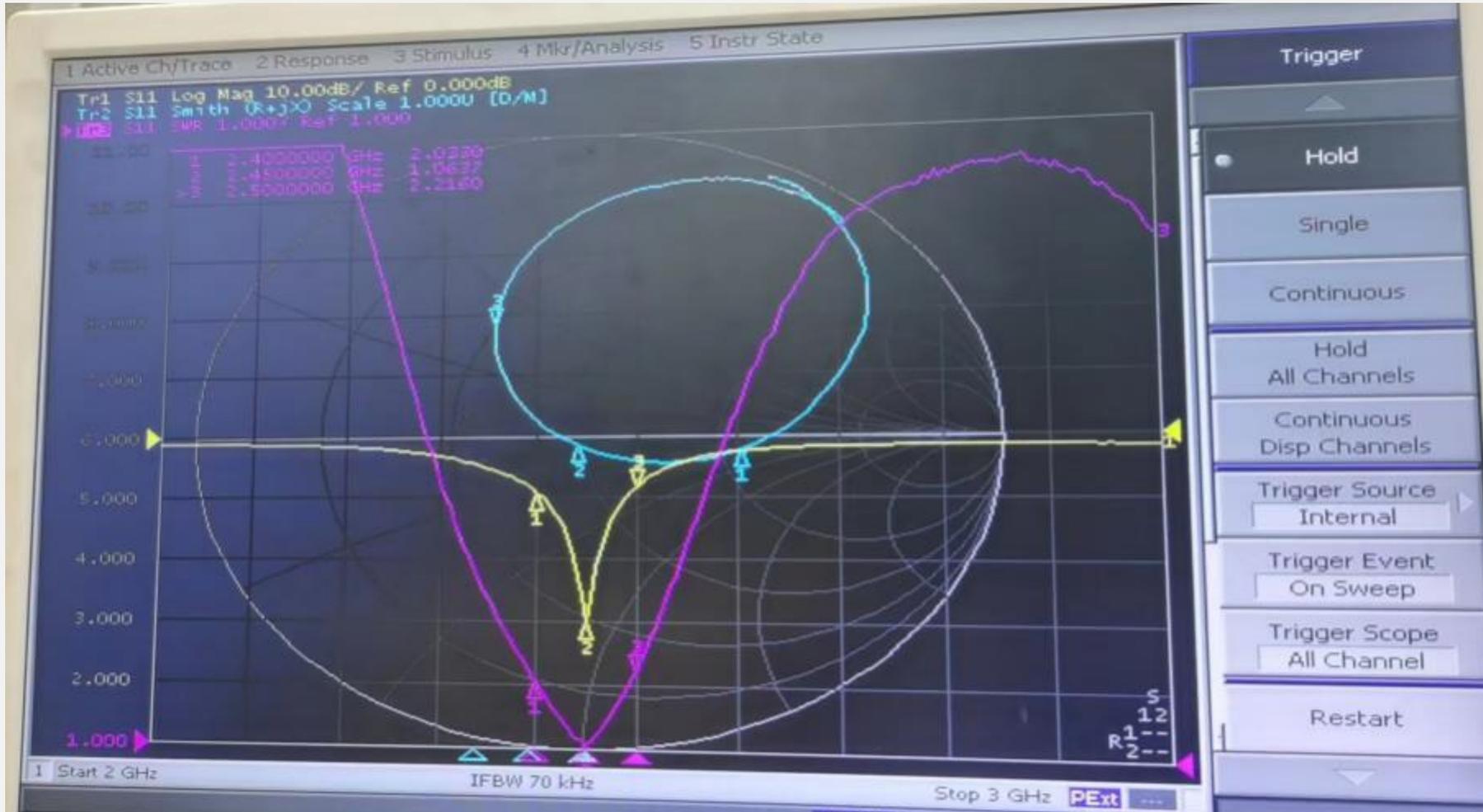


天线无源匹配： 天线型号： 3216F245X02（咏成国际）





S11, SWR, smith chart:



Antenna efficiency gain

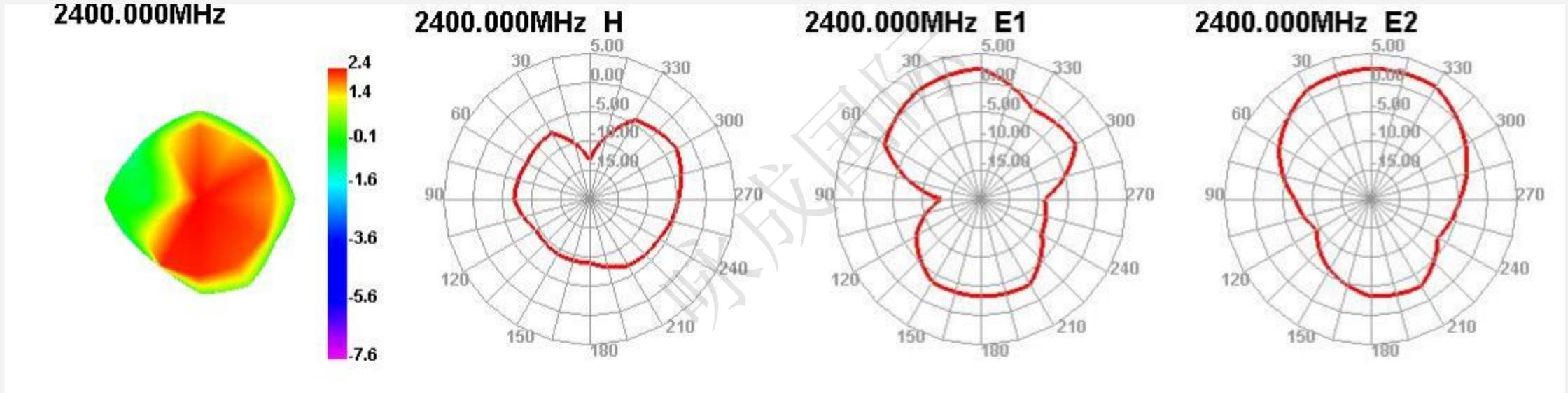
天线效率与增益图

L/R

Passive Test For BT2.4				
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	39.04	-4.09	0.52	-1.63
2410	39.11	-4.08	0.73	-1.42
2420	35.33	-4.52	0.47	-1.68
2430	39.98	-3.98	1.14	-1.01
2440	37.5	-4.26	0.98	-1.17
2450	44.14	-3.55	1.69	-0.46
2460	39.63	-4.02	1.17	-0.98
2470	38.25	-4.17	0.95	-1.2
2480	49.71	-3.04	2.06	-0.09
2490	41.14	-3.86	1.2	-0.95
2500	43.15	-3.65	1.32	-0.83

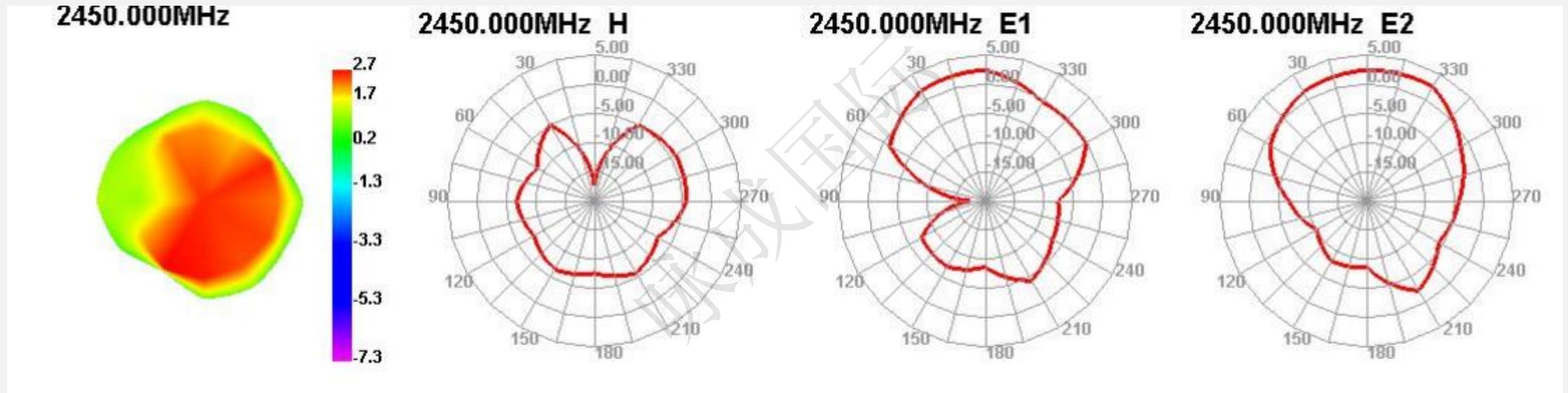


Antenna radiation pattern 2400.00MHz



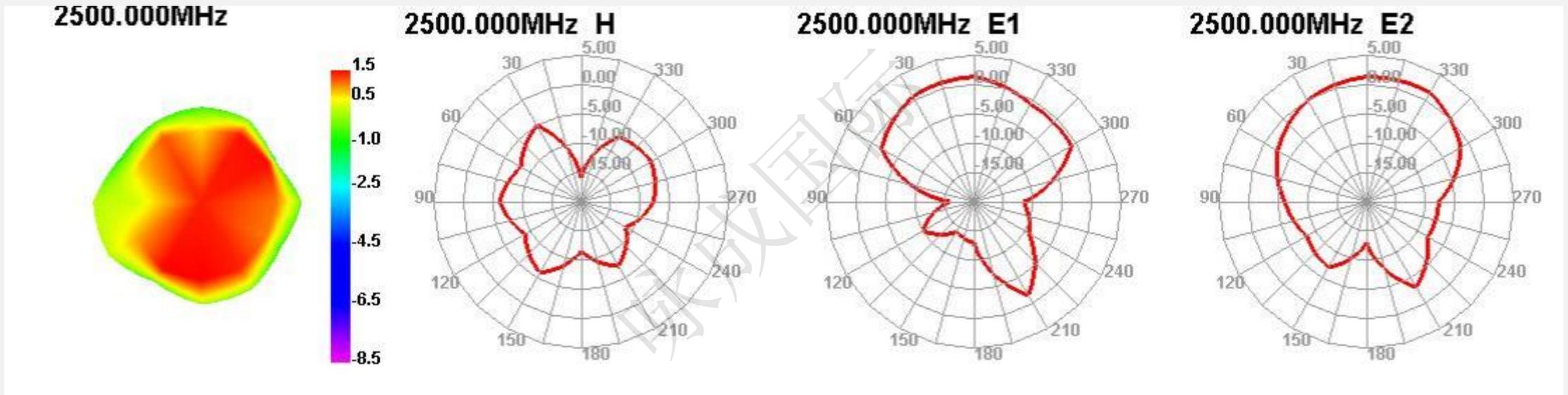


Antenna radiation pattern 2450.00MHz





Antenna radiation pattern 2500.00MHZ



Antenna active test data

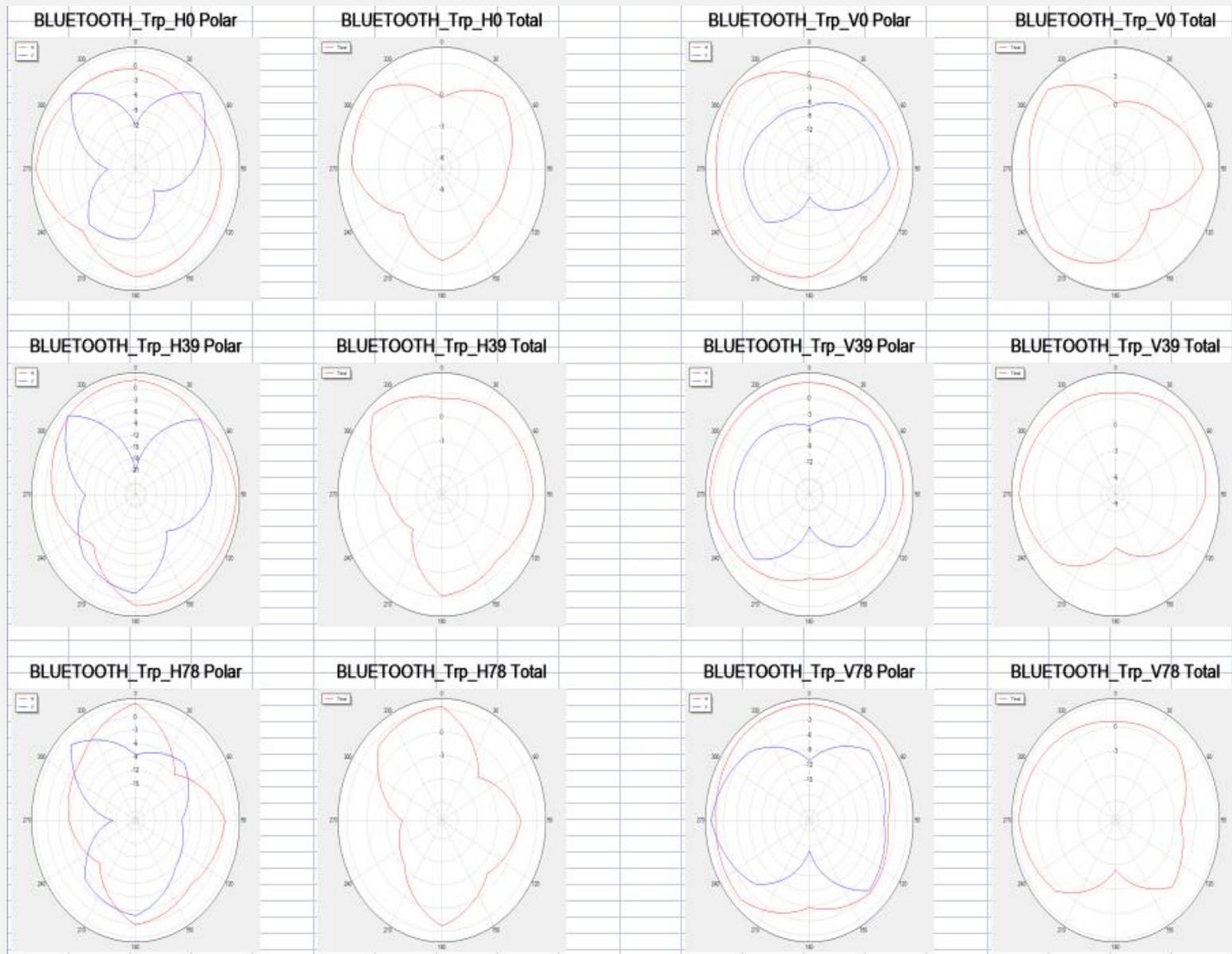
ANT EIRP&EIS parameter Summary

频段frequency band	BT 2.4G (R)			BT 2.4G (L)		
信道route	0	39	78	0	39	78
TRP (dBm)	1.62	1.45	1.25	1.12	1.28	1.77
TIS (dBm)	-83.15	-83.58	-81.45	-83.54	-83.29	-81.14

#R-TRP的天线方向图



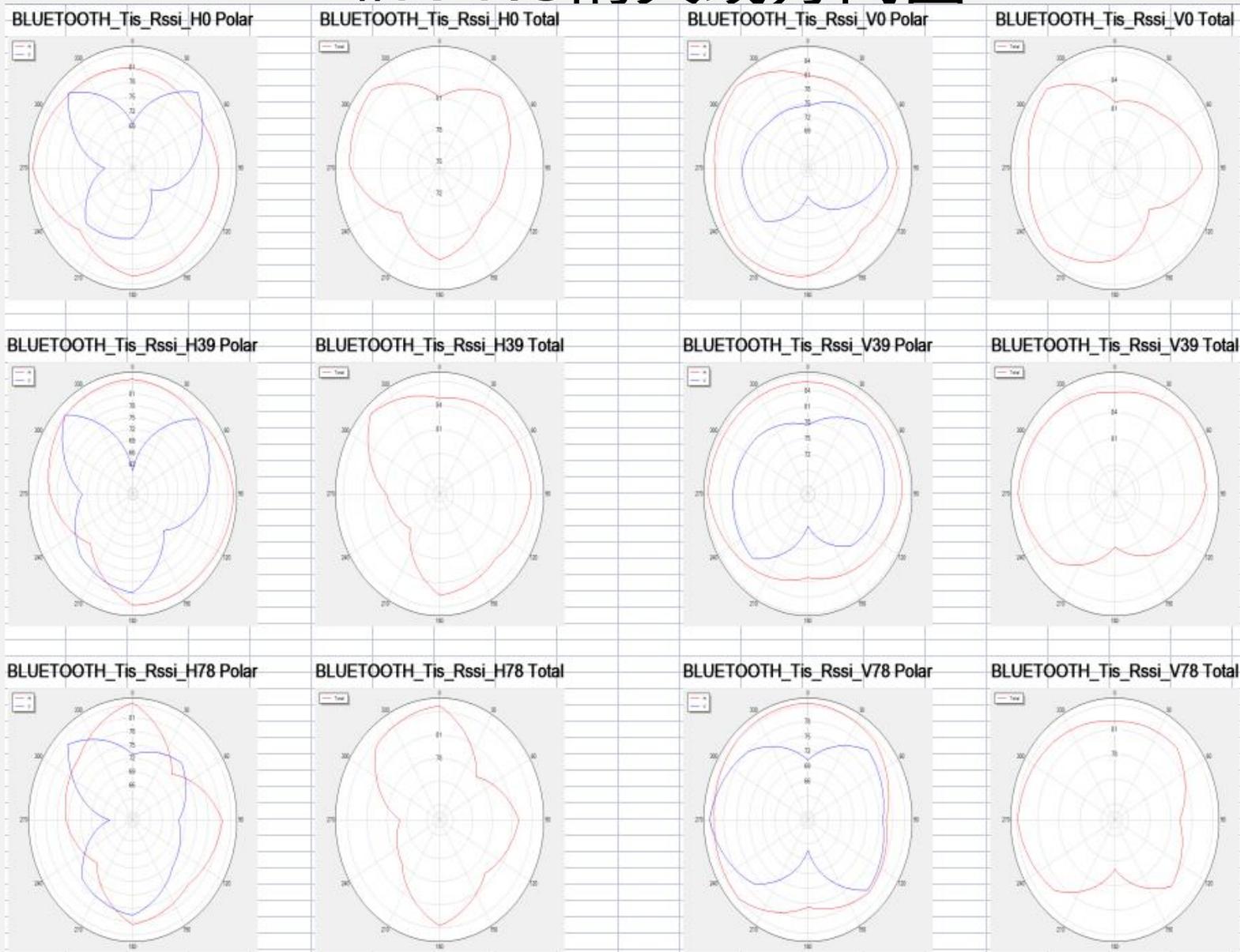
#-R



#R-TIS的天线方向图

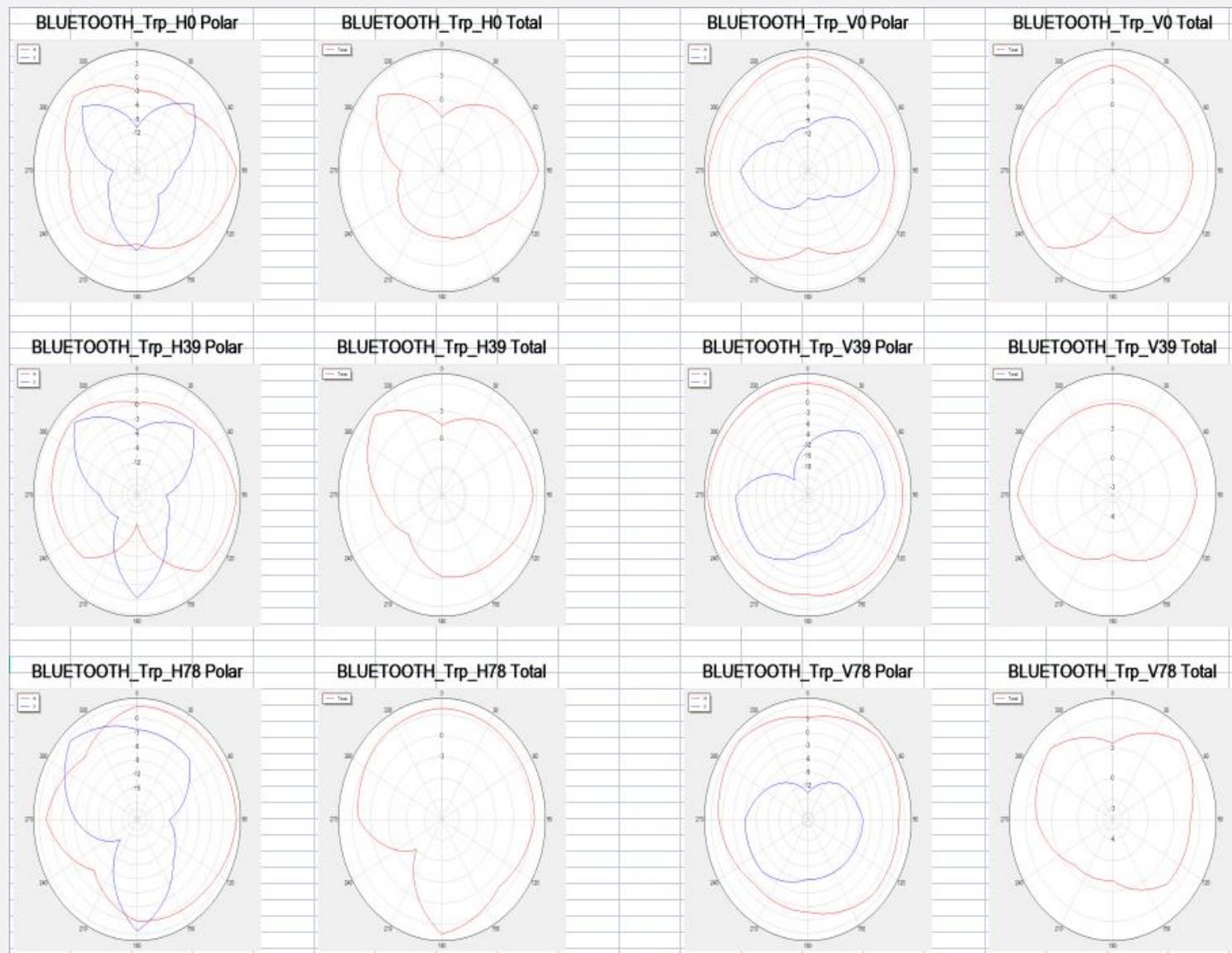


#-R



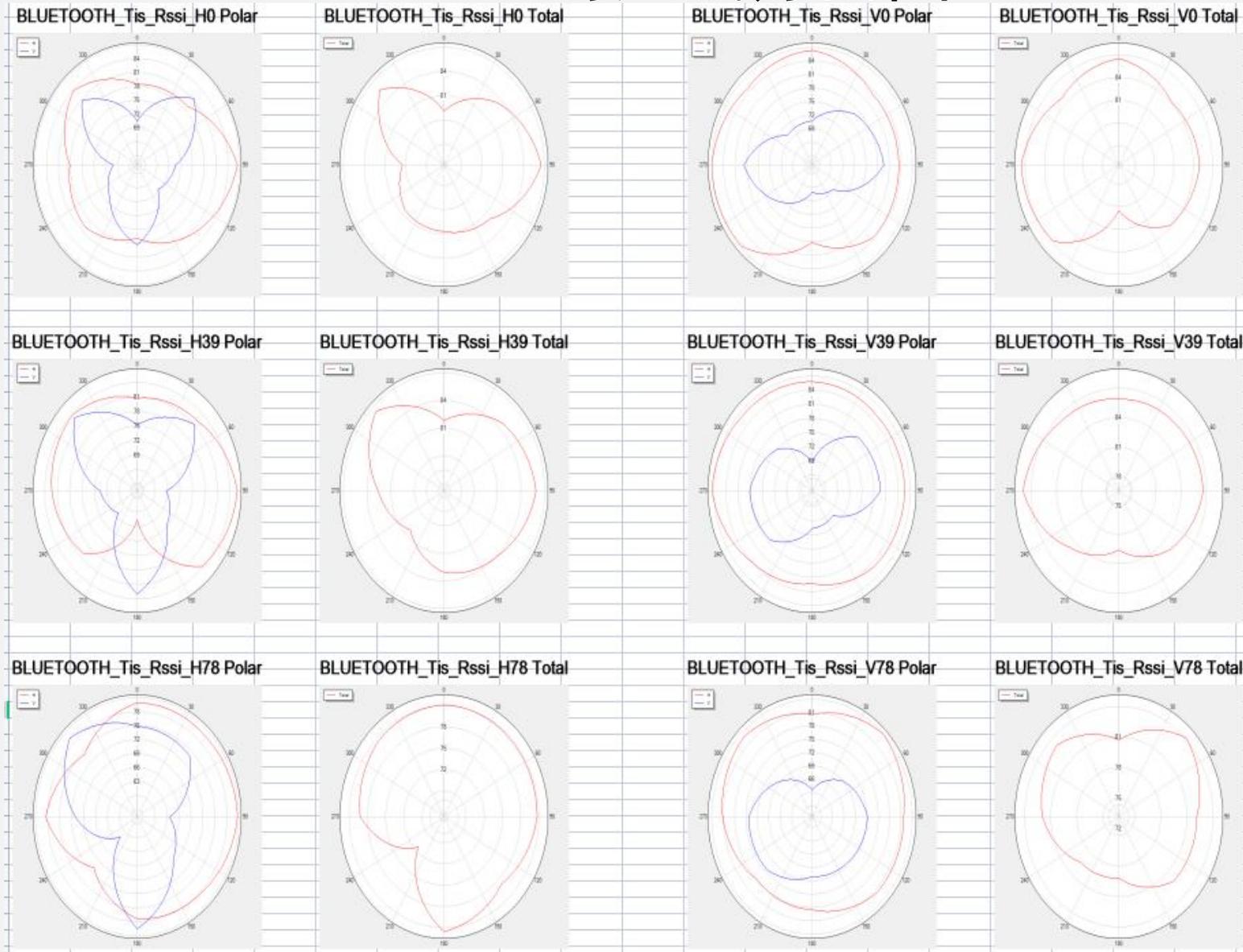
#L-TRP的天线方向图

► #L



#L-TIS的天线方向图

▶ #-L



拉距测试

a. 环境/手机

测试项目	测试吾耳	口袋测试要求(请叙述以下项目测试距离)		备注
苹果5手机		右前	OK	苹果5公园草地 测试10米+
	双手吾耳OK	左前	OK	
		右后	OK	
		左后	OK	

组装方式

咏成国际

Thank you for watching

Wish you enjoy your life

咏成国际

2023-5-12