



深圳市安威无线科技有限公司

行业领先的一站式通信射频天线解决方案制造商

S181 天线报告

客户：云基

安威射频：吴希

手机号：13751118278

报告版次：2025.12.25

携手共进 共创未来

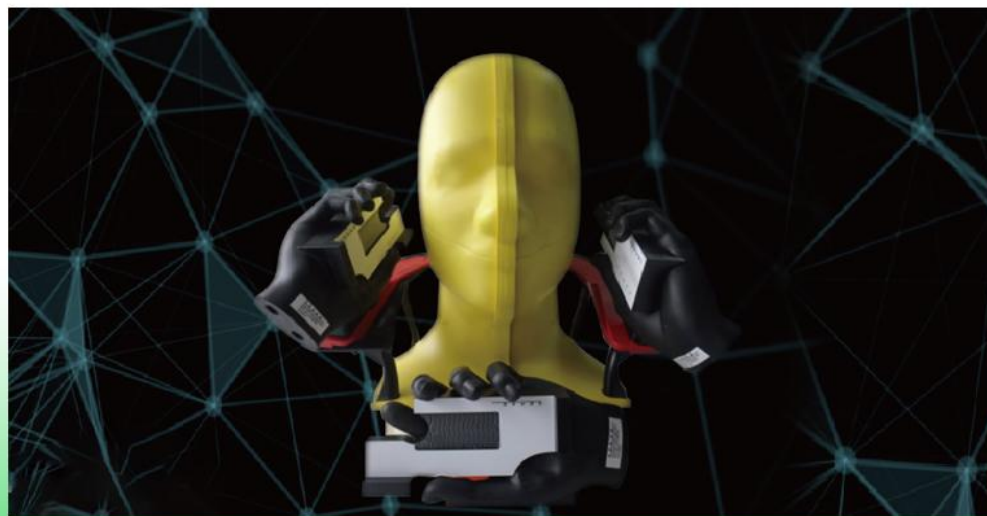
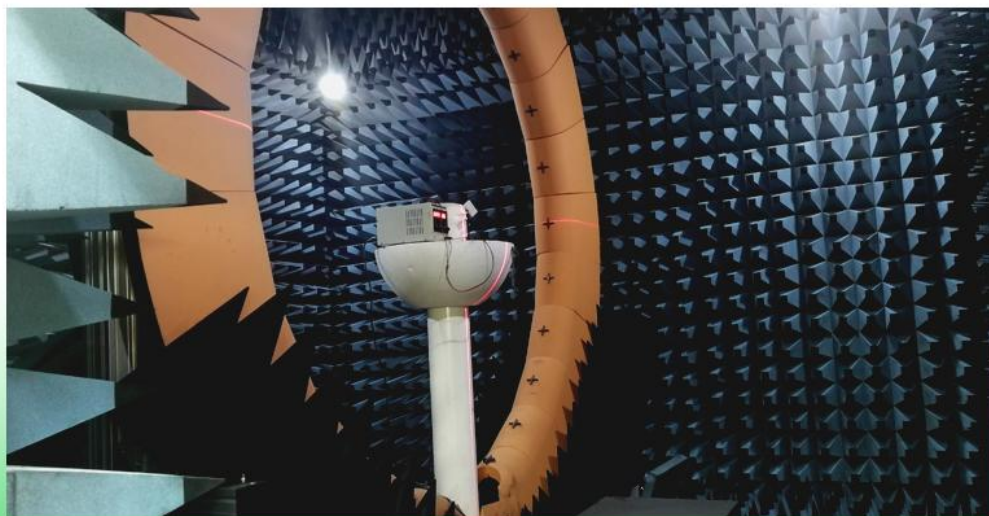
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报告版本提要

版本	日期	内容概况
V1	2025. 8. 22	初步调试报告(更新NFC测试数据) 链接: https://pan.baidu.com/s/18C8AmReC_NLp170aB_-Q_g?pwd=jrw4 提取码: jrw4
V2	2025. 9. 4	初步调试报告(更新亮屏测试数据)
V3	2025. 10. 13	EVT试产机器测试报告
V4	2025. 10. 14	EVT试产优化测试测试报告
V5	2025. 10. 23	二供屏天线测试测试报告
V6	2025. 11. 19	改天线轮巡测试报告 链接: https://pan.baidu.com/s/1YKXEAWMVoKd9zWsRBNYfSg 提取码: cmc6
V6	2025. 12. 25	DVT试产机器测试报告

项目开发环境

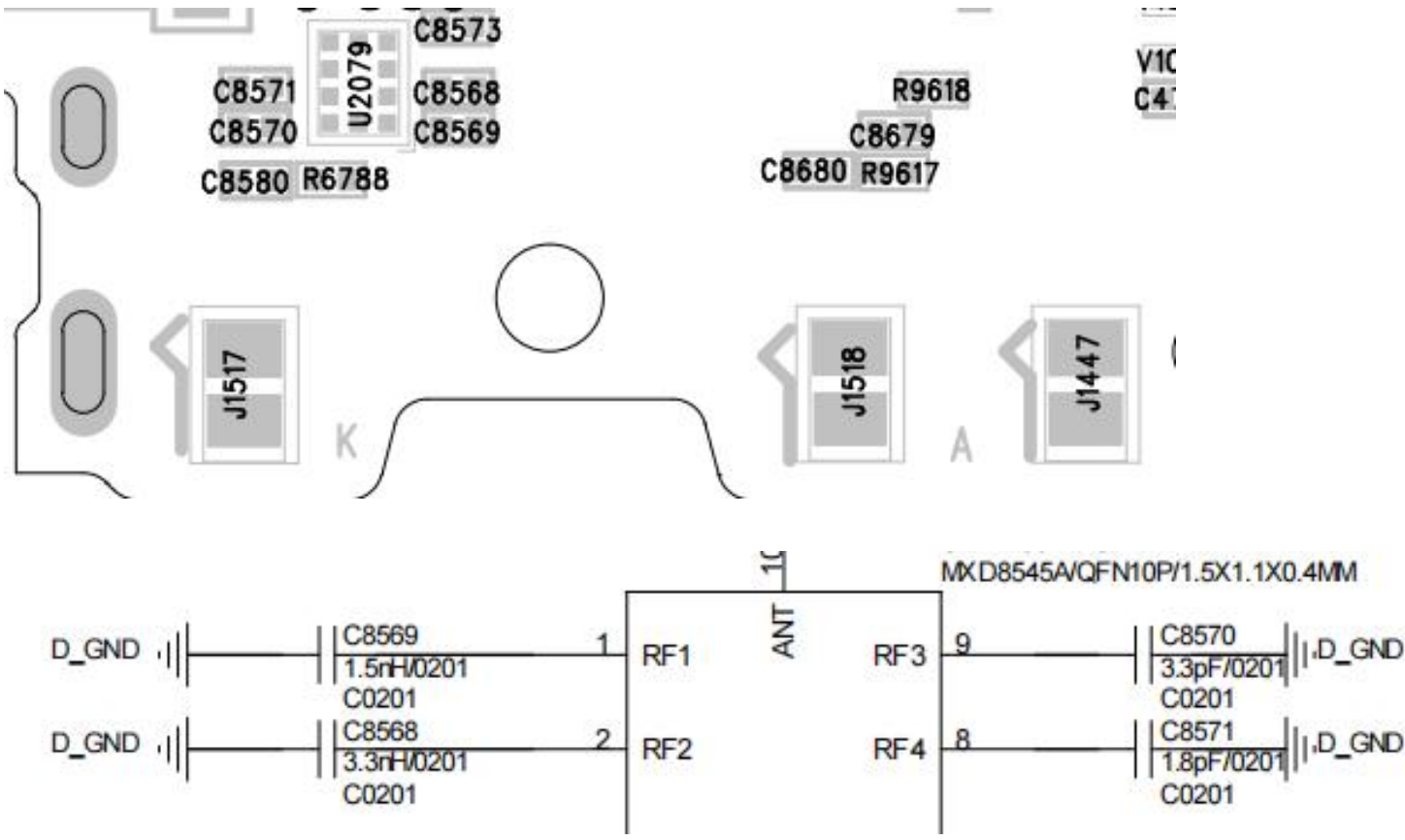


安威无线一直都是您值得信赖且优秀的合作伙伴，我们为您提供全方位一站式的产品以及技术服务！

“质量第一，服务至上”是安威一直以来的发展宗旨

携手共进 共创未来

小板匹配与逻辑：DVT试产无改动



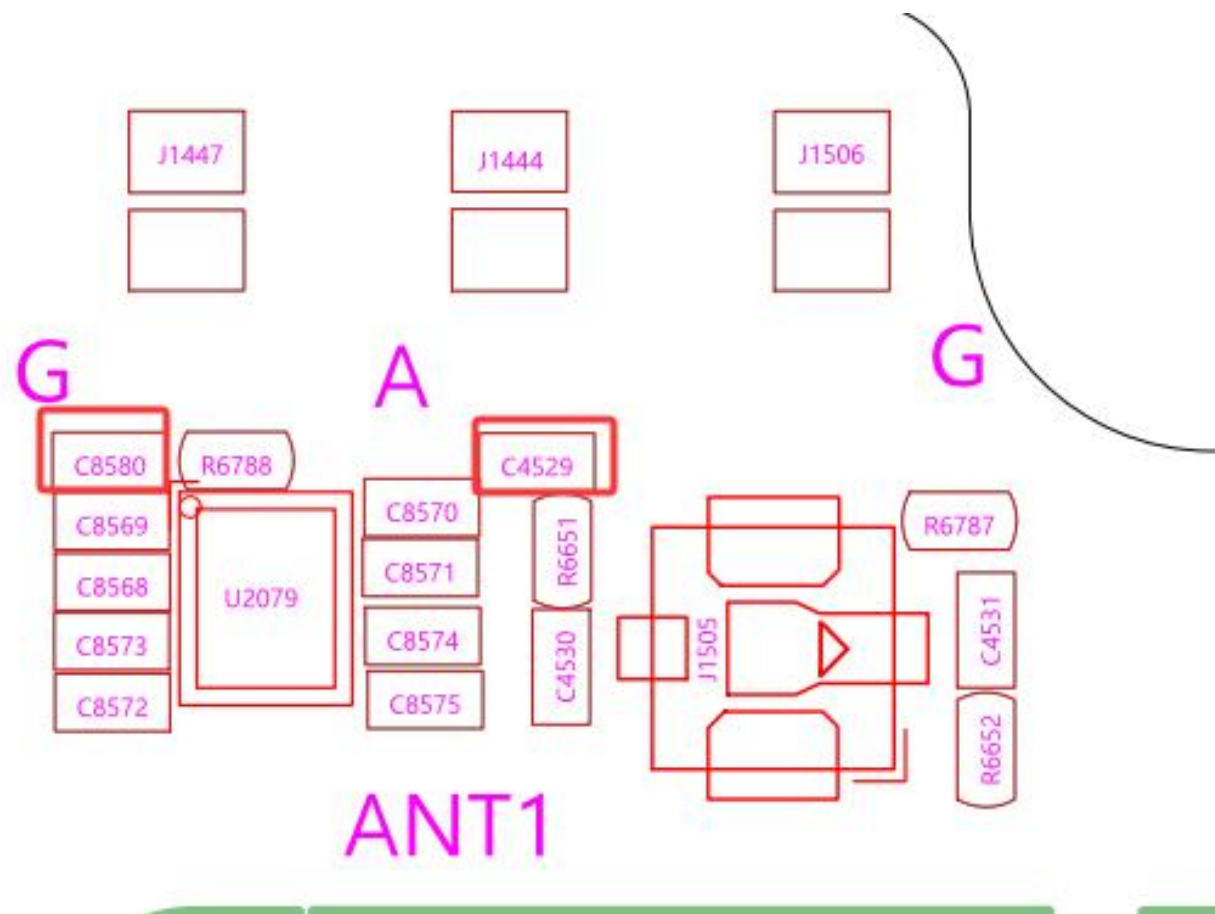
匹配修改如下：

- C8569:0欧
- C8568:5.6NH
- C8570:18NH电感
- C8571:27MH电感
- C8680:7.5NH电感

- RF1: (0欧) GSMB8 WCDMA:B8
LTE:8 NR:N8
- RF2; (5.6NH电感) GSMB5 WCDMA:B5/B6/B19 LTE:B5/B20/B18/B19/B26 NR:N5/N20/N26
- RF3: (18NH电感) LTE:12/13/17/28 NR:N12/N28
- RF4: (27NH电感) LTE:71 NR:N71 (TRX)



ANT1 DPDT逻辑： DVT试产无改动



匹配修改如下：

C4529:1.2PF电容

C8580:0欧

TRX

GSMB2/3 WCDMA:B1/B2/B4

LTE:1/2/3/4/7/25/66

N1/N2/N3/N7/N25/N66/N34/N38/N39/N40/N41

主天线暗室数据

EVT人头手数据

	Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)	
GSM 850	128	20.21			W 1	LOW	14.28		
	190	21.14				medium	14.34		
	251	21.21	-97.64			high	14.51	-100.3	
GSM 900	1	20.21			W 2	LOW	13.43		
	62	21.34				medium	13.54		
	124	21.12	-98.4			high	13.34	-99.54	
DCS 1800	512	22.04			W 4	LOW	13.17		
	698	21.75				medium	13.30		
	885	21.57	-100.0			high	13.24	-99.5	
PCS 1900	512	22.21			W 5	LOW	11.24		
	661	22.34				medium	11.07		
	810	22.24	-99.5			high	11.62	-97.2	
					W 6	LOW	11.22		
						medium	11.34		
						high	12.02	-97.5	
					W 8	LOW	11.2		
						medium	11.17		
						high	12.77	-97.5	
					W 19	LOW	11.16		
						medium	11.25		
						high	11.47	-97.04	

主天线暗室数据 EVT人头手数据

	Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)	
FDD B1	LOW	15.3			FDD B17	LOW	11.31			FDD B13	LOW			
	medium	15.28				medium	12.31				medium	12.24	-86.29	
	high	15.1	-87.2			high	12.04	-86.25			high			
FDD B2	LOW	14.63			FDD B18	LOW	11.86			FDD B66	LOW	14.17		
	medium	14.64				medium	12.46				medium	14.46		
	high	15.13	-86.54			high	12.34	-87.0			high	14.31	-88	
FDD B3	LOW	15.77			FDD B19	LOW	12.36			FDD B71	LOW	10.24		
	medium	15.18				medium	12.11				medium	10.76		
	high	15.42	-86.24			high	12.32	-86.01			high	10.29	-85.76	
FDD B4	LOW	14.52			FDD B20	LOW	12.76			TDD B34	LOW	15.59		
	medium	14.2				medium	12.35				medium	15.94		
	high	1305	-86.2			high	12.42	-85.2			high	16.1	-87.2	
FDD B5	LOW	11.28			FDD B25	LOW	15.05			TDD B38	LOW	16.28		
	medium	11.14				medium	14.37				medium	16.23		
	high	11.43	-85.67			high	14.13	-86.34			high	16.48	-87.5	
FDD B7	LOW	14.3			FDD B26	LOW	11.95			TDD B39	LOW	15.4		
	medium	15.32				medium	11.76				medium	15.29		
	high	14.56	-87.2			high	12.2	-86.0			high	15.12	-86.2	
FDD B8	LOW	11.65			FDD B28A	LOW	11.65			TDD B40	LOW	14.12		
	medium	11.59				medium	11.45				medium	14.98		
	high	11.24	-86.01			high	11.25	-86.0			high	14.53	-87.3	
FDD B12	LOW	11.57			FDD B28B	LOW	11.59			TDD B41	LOW	15.69		
	medium	11.61				medium	11.42				medium	16.35	-87.04	
	high	11.77	-85.5			high	11.56	-86.42			high	16.06		

主天线暗室数据

EVT人头手数据

	Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)	
NR N1	LOW	15.42			NR N25	LOW	14.46			NR N40	LOW	14.19		
	medium	15.34				medium	14.45				medium	15.52		
	high	15.31	-87.0			high	14.2	-86.4			high	15.19	-86.69	
NR N2	LOW	14.52			NR N26	LOW	11.21			NR N41	LOW	15.09		
	medium	14.04				medium	11.34				medium	15.34		
	high	14.34	-87.2			high	11.64	-85.32			high	15.04	-84.64	
NR N3	LOW	13.4			NR N28	LOW	12.24			NR N77	LOW	16.24		
	medium	14.54				medium	12.31				medium	15.43		
	high	14.31	-87.2			high	12.24	-85.0			high	15.43	-85.46	
NR N5	LOW	11.21			NR N66	LOW	14.42			NR N78	LOW	16.25		
	medium	11.14				medium	14.24				medium	15.21		
	high	11.31	-86.07			high	14.21	-87.5			high	15.04	-85.52	
NR N7	LOW	15.21			NR N71	LOW	10.45			NR N48	LOW	14.34		
	medium	15.10				medium	11.04				medium	14.31		
	high	15.21	-87.36			high	11.21	-85.59			high	14.20	-86.89	
NR N8	LOW	11.3			NR N34	LOW	14.34							
	medium	11.09				medium	14.05							
	high	11.21	-86.0			high	14.21	-87.0						
NR N12	LOW	10.83			NR N38	LOW	15.42							
	medium	11.31				medium	14.32							
	high	11.13	-86.1			high	14.97	-87.1						
NR N20	LOW	11.25			NR N39	LOW	14.64							
	medium	11.41				medium	14.25							
	high	11.31	-86.31			high	14.09	-87.0						

主天线暗室数据

	Channel	TRP (dBm)	TIS (dBm)	亮		Channel	TRP (dBm)	TIS (dBm)	亮
GSM 850	128	25.70		-101.6	W 1	LOW	17.54		-102.2
	190	26.16				medium	17.34		
	251	26.34	-102.5			high	17.86	-103.0	
GSM 900	1	25.57		-101.0	W 2	LOW	17.95		102.0
	62	26.34				medium	17.34		
	124	26.40	-102.5			high	18.15	-103.2	
DCS 1800	512	24.34		-102.2	W 4	LOW	18.24		-102.
	698	24.50				medium	17.60		
	885	25.34	-103.0			high	17.52	-103.0	
PCS 1900	512	25.27		-102.0	W 5	LOW	15.70		-101.5
	661	25.33				medium	16.24		
	810	24.53	-103.0			high	16.17	-102.5	
					W 6	LOW	15.77		-101
						medium	15.57		
						high	15.31	-102.56	
					W 8	LOW	15.57		-101.0
						medium	16.27		
						high	16.30	-102.5	
					W 19	LOW	16.28		-101.0
						medium	16.19		
						high	16.20	-102.6	

主天线暗室数据

	Channel	TRP (dBm)	TIS (dBm)	亮		Channel	TRP (dBm)	TIS (dBm)	亮		Channel	TRP (dBm)	TIS (dBm)	亮
FDD B1	LOW	17.17		-89.5	FDD B17	LOW	15.39		-87.0	FDD B13	LOW			-87.5
	medium	17.61				medium	15.19				medium	16.04	-89.0	
	high	17.55	-91.5			high	15.53	-89.6			high			
FDD B2	LOW	17.14		-90.2	FDD B18	LOW	16.09		-87.2	FDD B66	LOW	17.34		-89.0
	medium	17.59				medium	16.08				medium	17.04		
	high	17.11	-91.5			high	16.05	-90.5			high	16.29	-90.6	
FDD B3	LOW	18.36		-90.2	FDD B19	LOW	16.06		-87.4	FDD B71	LOW	15.04		-87.1
	medium	18.14				medium	16.32				medium	15.01		
	high	18.24	-91.4			high	16.52	-90.0			high	15.01	-89.2	
FDD B4	LOW	17.85		-90.0	FDD B20	LOW	16.31		-87.5	TDD B34	LOW	18.09		-89.0
	medium	17.03				medium	16.57				medium	18.19		
	high	17.06	-91.3			high	16.08	-90.3			high	18.16	-90.0	
FDD B5	LOW	16.07		-87.5	FDD B25	LOW	16.25		-88	TDD B38	LOW	17.49		-88.0
	medium	16.26				medium	17.03				medium	17.15		
	high	16.15	-90.6			high	17.1	-90.0			high	17.05	-90.2	
FDD B7	LOW	17.51		-90.0	FDD B26	LOW	16.16		-87.2	TDD B39	LOW	17.98		-89
	medium	18.02				medium	16.03				medium	17.91		
	high	17.41	-91.5			high	16.13	-90.5			high	18.05	-90.5	
FDD B8	LOW	16.09		-88.0	FDD B28A	LOW	15.29		-87.	TDD B40	LOW	17.31		-87.2
	medium	16.13				medium	15.32				medium	17.47		
	high	16.13	-90.5			high	15.49	-90.5			high	17.04	-89.04	
FDD B12	LOW	15.29		-87.4	FDD B28B	LOW	15.57		-87.35	TDD B41	LOW	17.47		-88.5
	medium	15.06				medium	15.28				medium	17.24		
	high	15.37	-90.0			high	15.87	-89.5			high	18.08	-90.34	

主天线暗室数据

	Channel	TRP (dBm)	TIS (dBm)	亮		Channel	TRP (dBm)	TIS (dBm)	亮		Channel	TRP (dBm)	TIS (dBm)	亮	
NR N1	LOW	17.19		-90.2	NR N25	LOW	16.46		-86.56	NR N40	LOW	17.04		-88.0	
	medium	17.29				medium	16.94				medium	18.21			
	high	16.85	-91.0			high	16.25	-89.54			high	18.43	-90.7		
NR N2	LOW	16.2		-89.5	NR N26	LOW	16.07		-87.2	NR N41	LOW	18.48		-84.2	
	medium	17.16				medium	16.06				medium	18.24			
	high	17.28	-91.2			high	16.16	-90.12			high	18.51	-85.2		
NR N3	LOW	16.57		-88.3	NR N28	LOW	15.26		-86.40	NR N77	LOW	19.27		-86.0	
	medium	17.04				medium	15.18				medium	19.5			
	high	17.31	-89.5			high	15.34	-89.2			high	18.36	-87.0		
NR N5	LOW	16.21		-87.0	NR N66	LOW	17.51		-86.53	NR N78	LOW	19.43		-86.1	
	medium	16.17				medium	17.03				medium	19.68			
	high	16.03	-90.4			high	16.51	-89.14			high	18.05	-87.0		
NR N7	LOW	16.2		-88.0	NR N71	LOW	15.12		-87.0	NR N48	LOW	16.64		-88.0	
	medium	17.37				medium	15.56				medium	17.24			
	high	17.43	-90.5			high	15.26	-90.64			high	17.34	-90.5		
NR N8	LOW	16.16		-86.5	NR N34	LOW	16.46		-87.35						
	medium	16.09				medium	16.28								
	high	16.23	-89.0			high	16.14	-89.5							
NR N12	LOW	15.05		-86.4	NR N38	LOW	17.58		-87.40						
	medium	15.28				medium	17.86								
	high	15.15	-89.5			high	17.09	-89.0							
NR N20	LOW	16.08		-86.6	NR N39	LOW	16.42		-87.3						
	medium	16.21				medium	16.08								
	high	15.74	-89.0			high	16.26	-89.5							

GPS测试结果

Average CNR

G:31.3/-/29.0/-/-/- R:36.5/-/-/-/-/- B:30.8/-/-/34.0/-/-
E:32.8/-/-/-/-/- Q:39.5/-/39.3/-/-/- L:-/-/-/-/-/- I:-/-/-/-/-/-
S:-/-/-/-/-/-

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SVID	Fq	CNR	Elevation	Azimuth
 1 L1		42.9	70.00	60.00
 1 L1C		41.3	70.00	60.00
 2 L1		37.4	37.00	38.00
 7 L1		35.4	56.00	211.00
 14 L1		23.1	0.00	0.00
 14 L1C		16.8	0.00	0.00
 17 L1		17.1	0.00	0.00
 19 L1		30.6	15.00	266.00
 30 L1		32.6	56.00	267.00
 76 L1		0.0	32.00	131.00
 77 L1		0.0	72.00	70.00
 78 L1		0.0	30.00	337.00
 87 L1		34.3	34.00	19.00
 88 L1		38.8	64.00	268.00

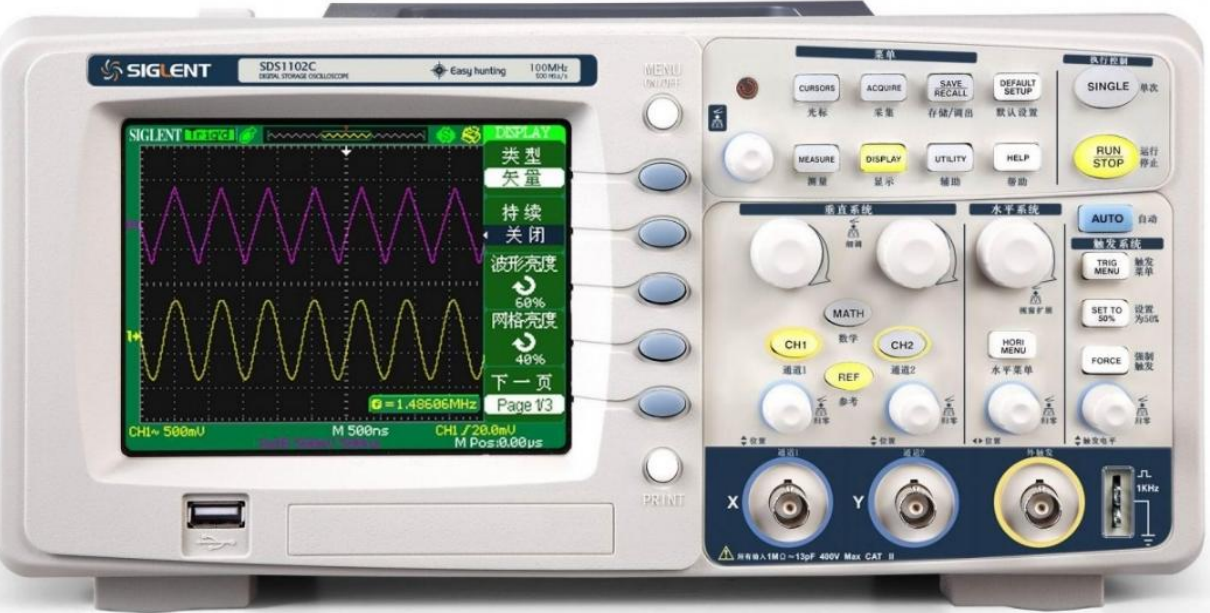
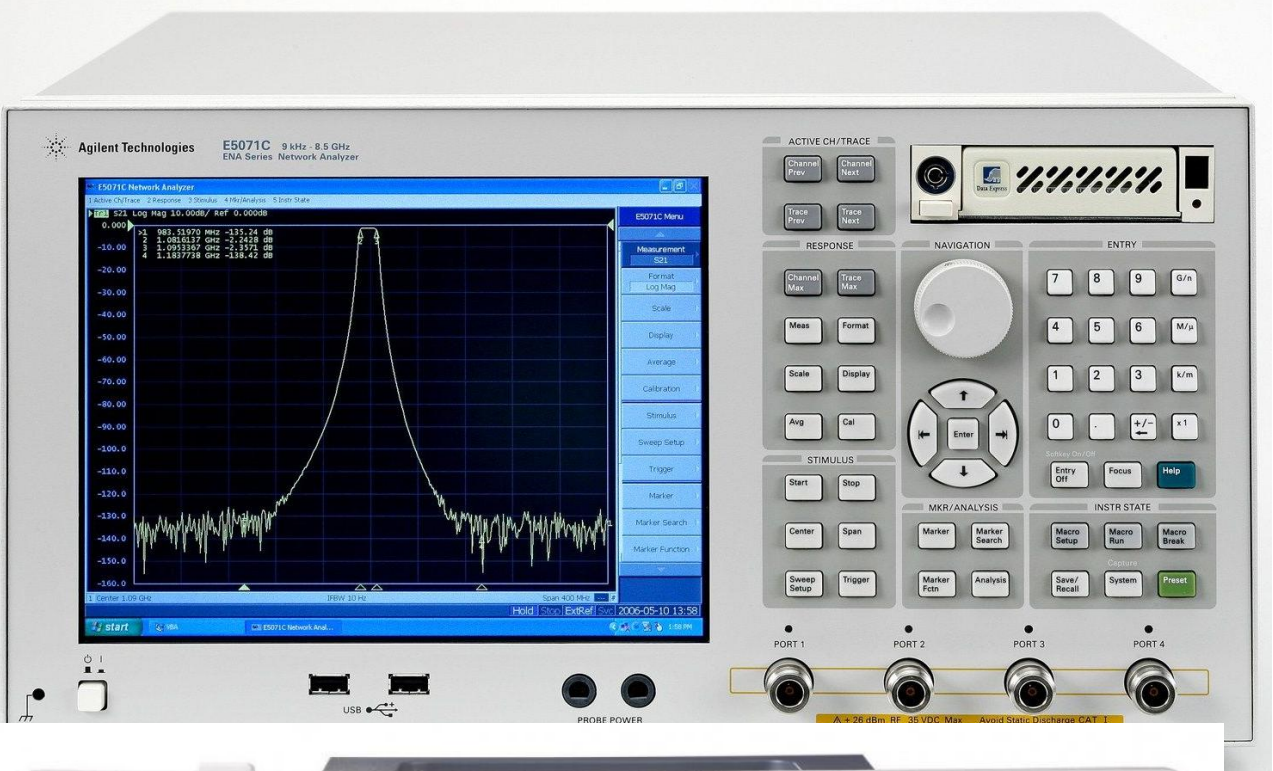
 WIFI测试效果:

BAND	2.4GWIFI			5.G WIFI		
CHANNEL	low	medium	high	low	medium	high
TRP (dBm)	11.85	11.68	11.72	10.57	10.47	10.60
TIS (dBm)	-80.54	-80.60	-80.346	-70.56	-70.55	-70.67

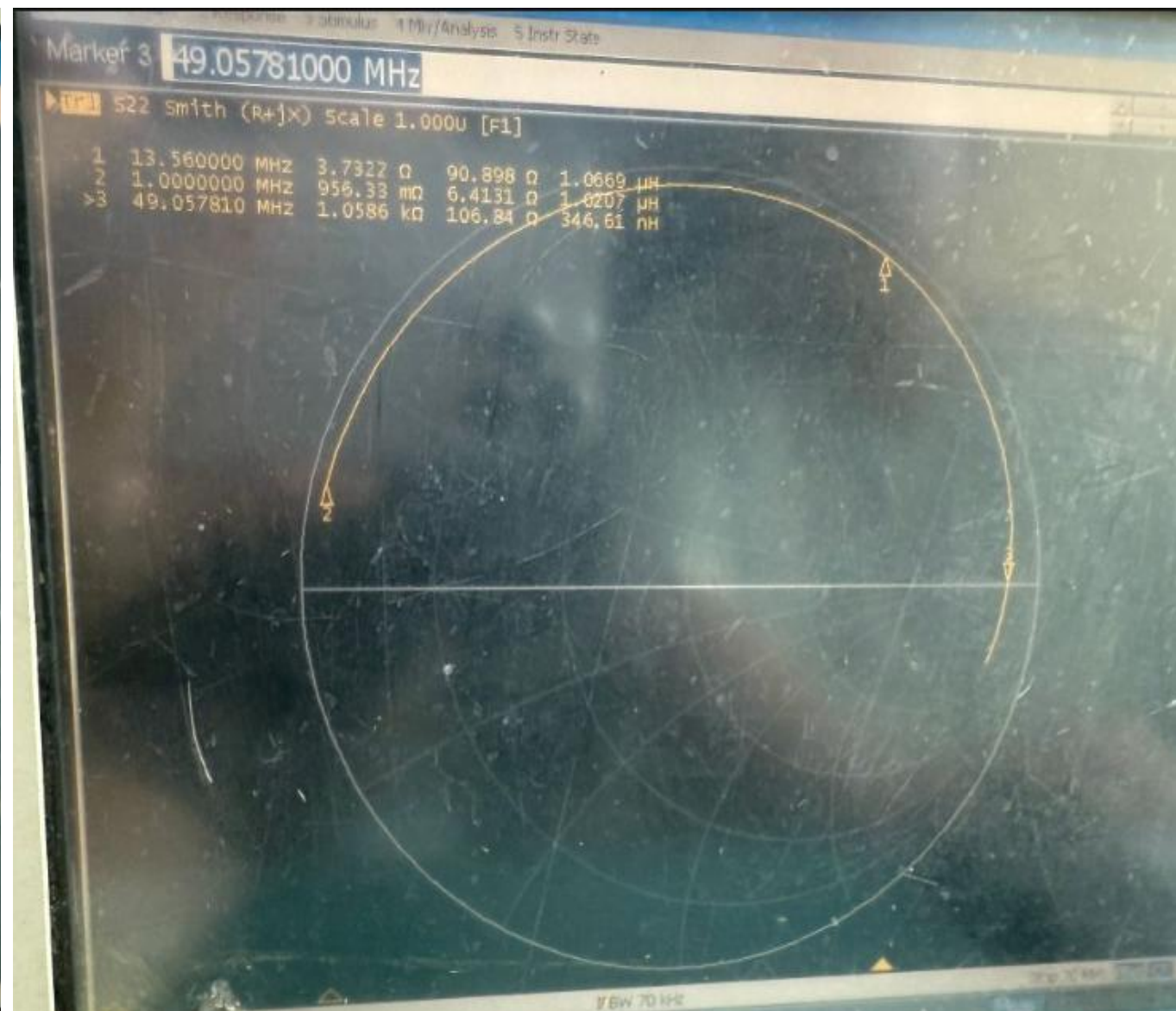
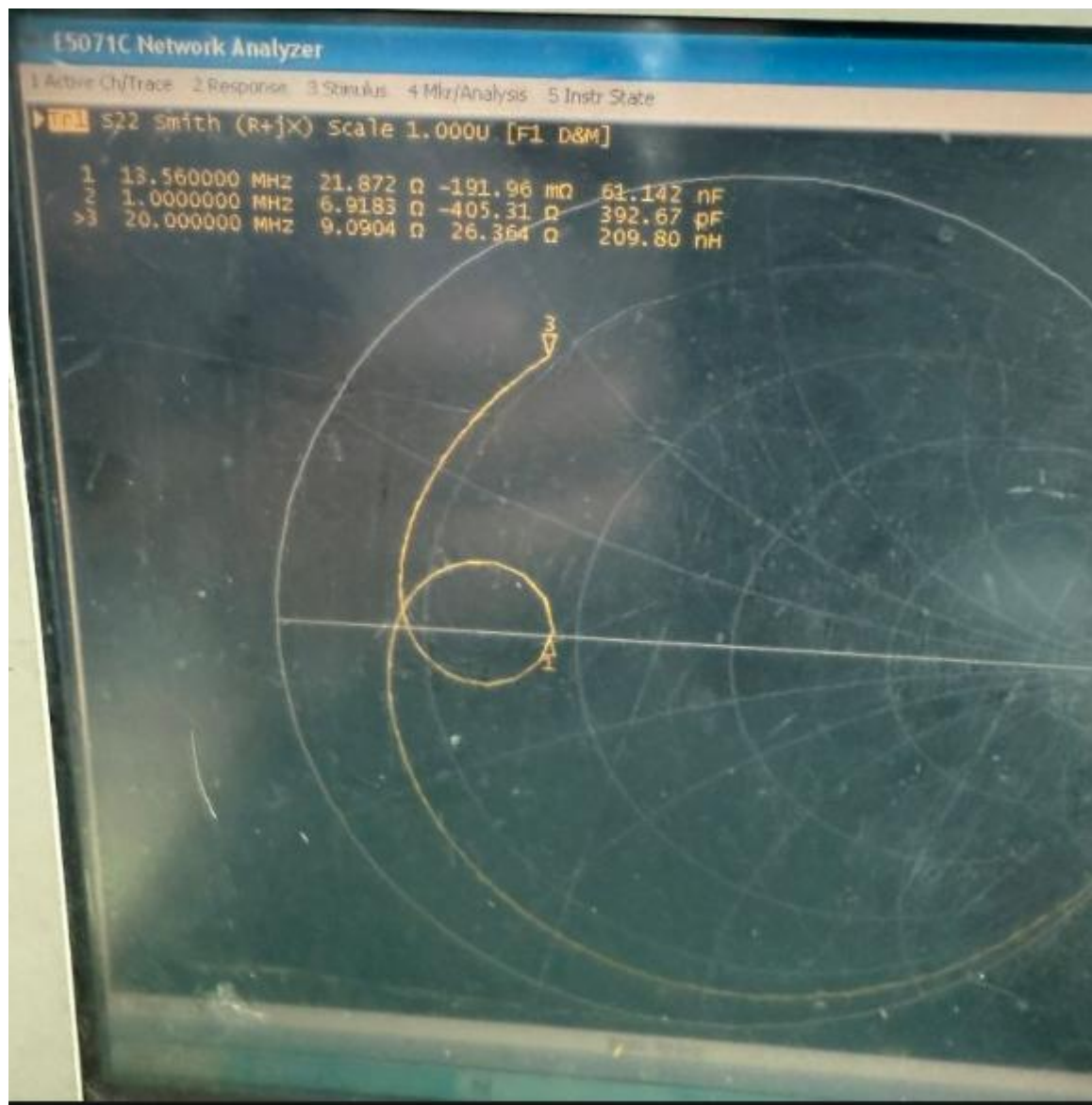
 BT测试效果：

BAND	BT		
CHANNEL	low	medium	high
TRP (dBm)	4. 21	4. 18	4. 30
TIS (dBm)	-85. 37	-85. 18	-85. 24

一. NFC调试设备



二. NFC无源调试 本体参数

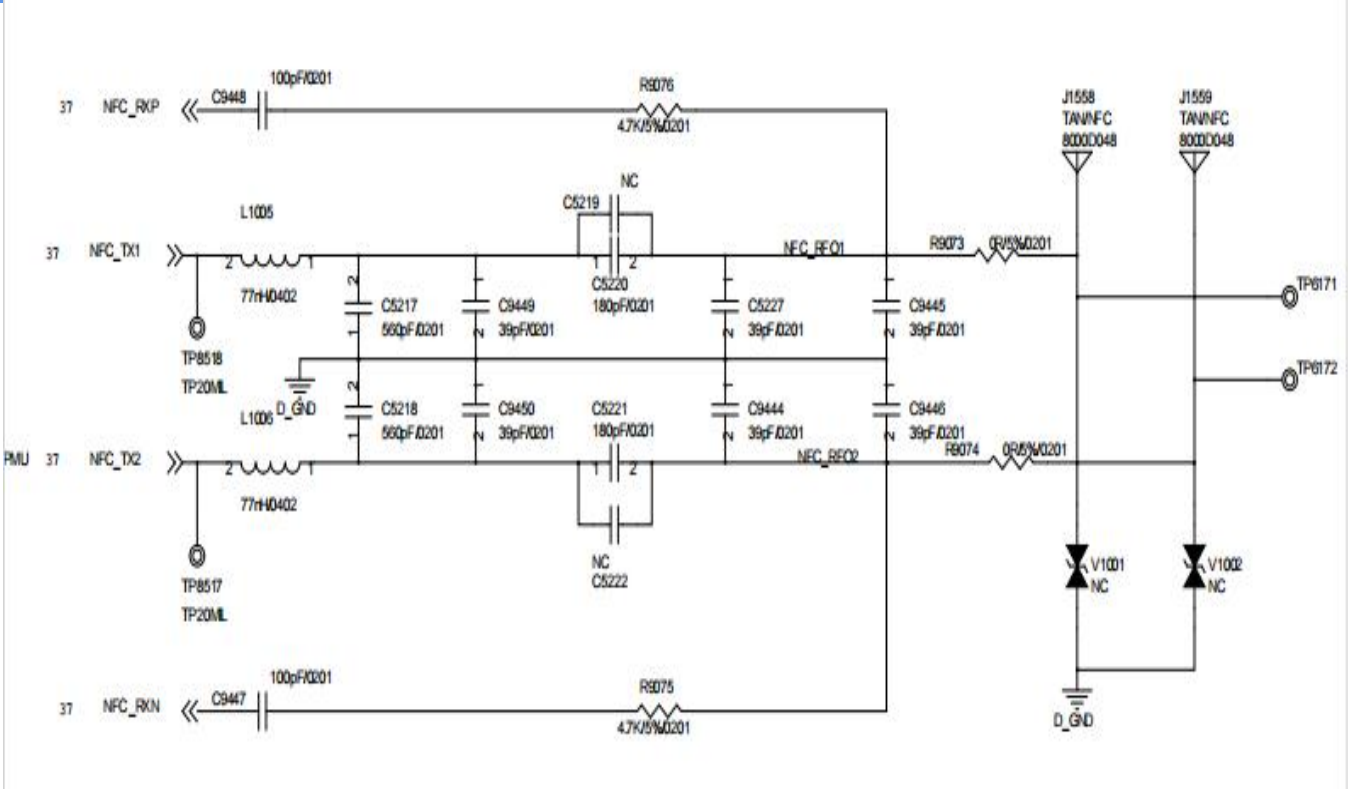
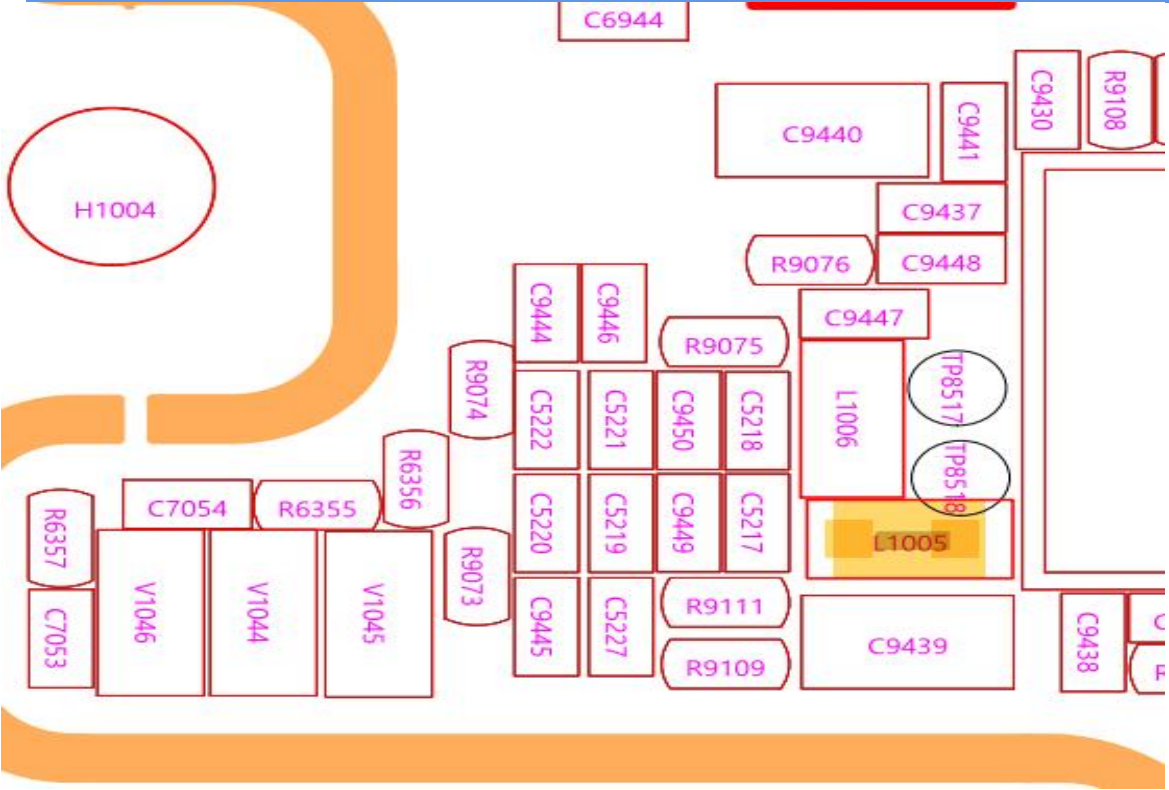


三. Q值

Step 2	1 st Iteration: Measurement of Antenna parameter L_a, R_s, R_p, f_{ra}				Series C
	Antenna:	linear view	unit	annotation	
	$L_a = 1.100E-06$		[H]	equivalent inductance at f=1MHz	
	$R_s = 9.560E-01$		[Ω]	equivalent resistance at f=1MHz	
	$R_p = 1.059E+03$		[Ω]	equivalent resistance at self resonance frequency	
	$f_{ra} = 4.906E+07$		[Hz]	self resonance frequency of the antenna	
	$R_p(13.56MHz) = 2.014E+03$		[Ω]	Skin effect included	
	$R_a = 5.318$		[Ω]		
	$C_a = 9.568E-12$		[F]		
	$Q_a = 17.622$				
	$R_Q = -1.097$		[Ω]	Resistance for a Q_a -value of 30	

四. NFC匹配调试

DVT试产未改动



注意：需要修改的匹配参数如下表（备注：试产未改动）

位号	调整后	备注
L1006/L1005	160NH电感	封装：0402，品牌：村田，误差 5% 50V
C5221 C5219	68PF电容	封装：0201，品牌：村田，误差 5% 50V
C5220 C5222	NC	封装：0201，品牌：村田，误差 5% 50V
C9446 C5227	100PF电容	封装：0201，品牌：村田，误差 5% 50V
C9444 C9445	82PF电容	封装：0201，品牌：村田，误差 5% 50V
C9450 C9449	100PF电容	封装：0201，品牌：村田，误差 5% 50V

五. NFC读卡距离

卡类型	距离 (cm)	天线材质
T  1 (Topaz-512)	3.5	FPC+铁氧体
T  2 (Mifare-Ultralight)	3.0	
T  3 (Sony-Felica)	2.5	
T  4 (Mifare-Desfire)	2.0	
T  5 (ISO15693)	3.5	
卡模拟	4.0	



六. 产品分析与总结

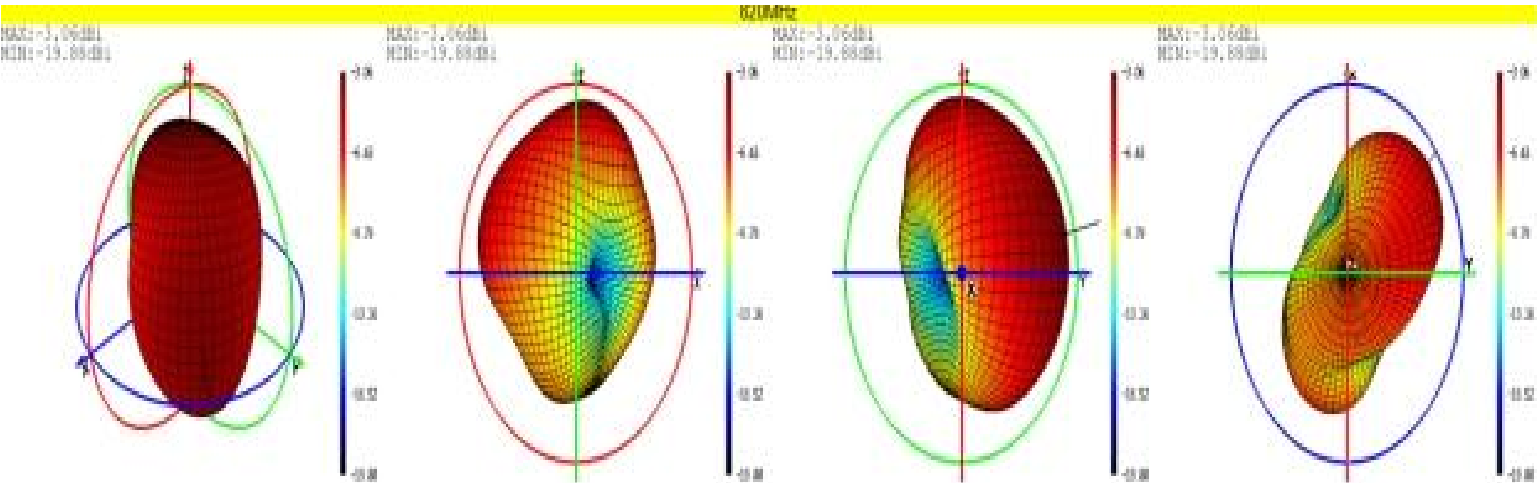
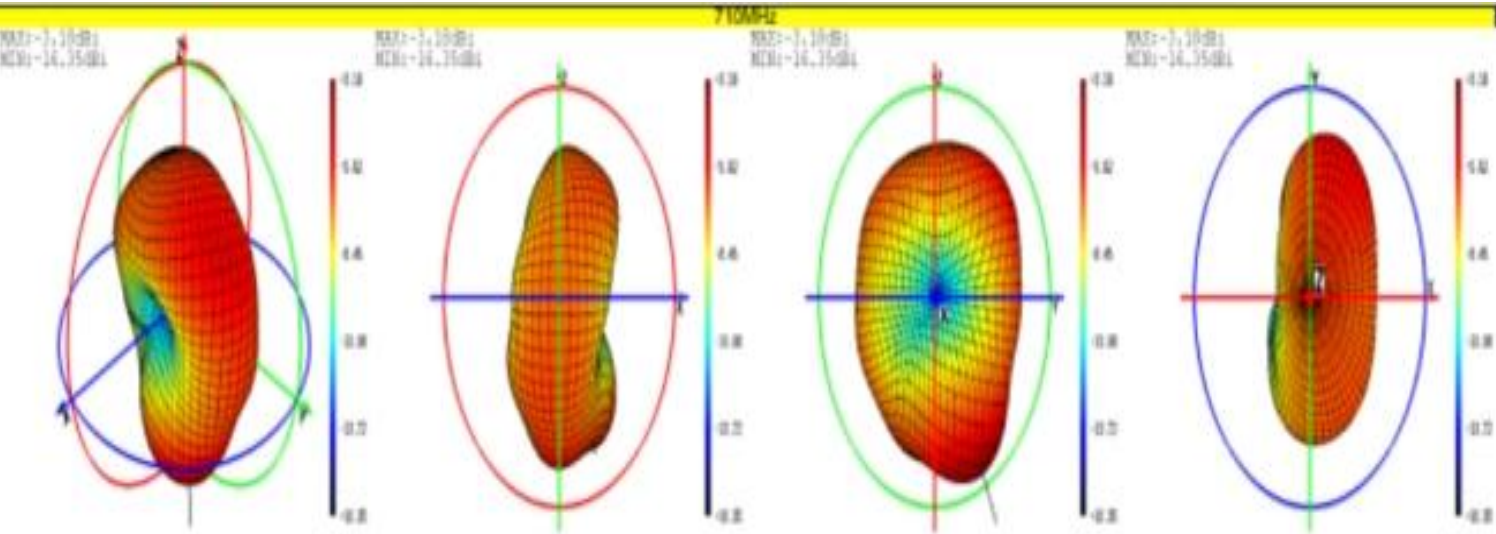
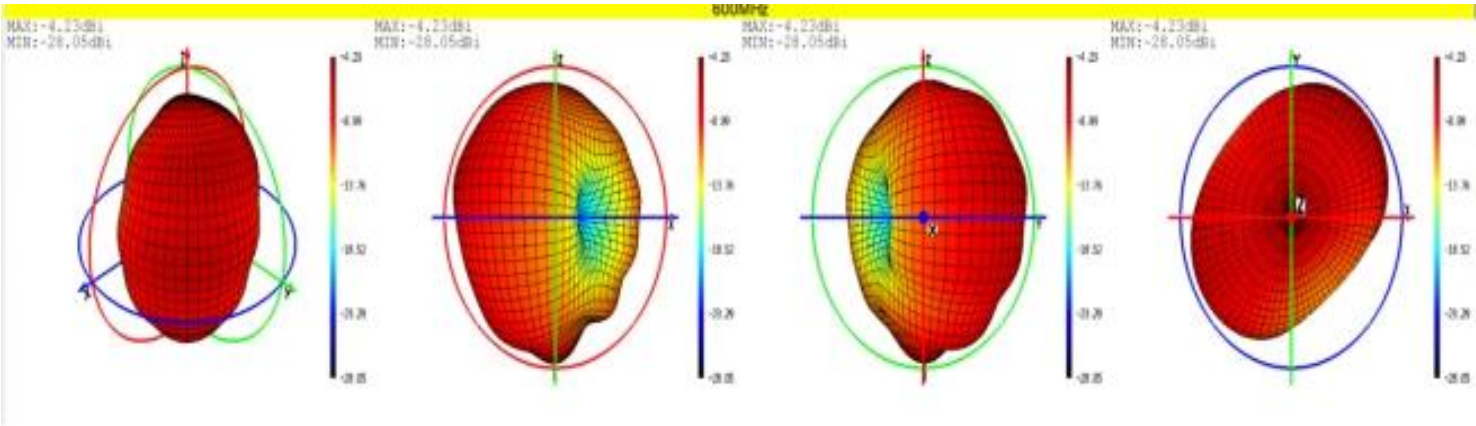
- 4.1、读卡距离跟卡片的兼容性有关，以上距离只针对测试卡片
- 4.2、电容的精度建议采用高些的

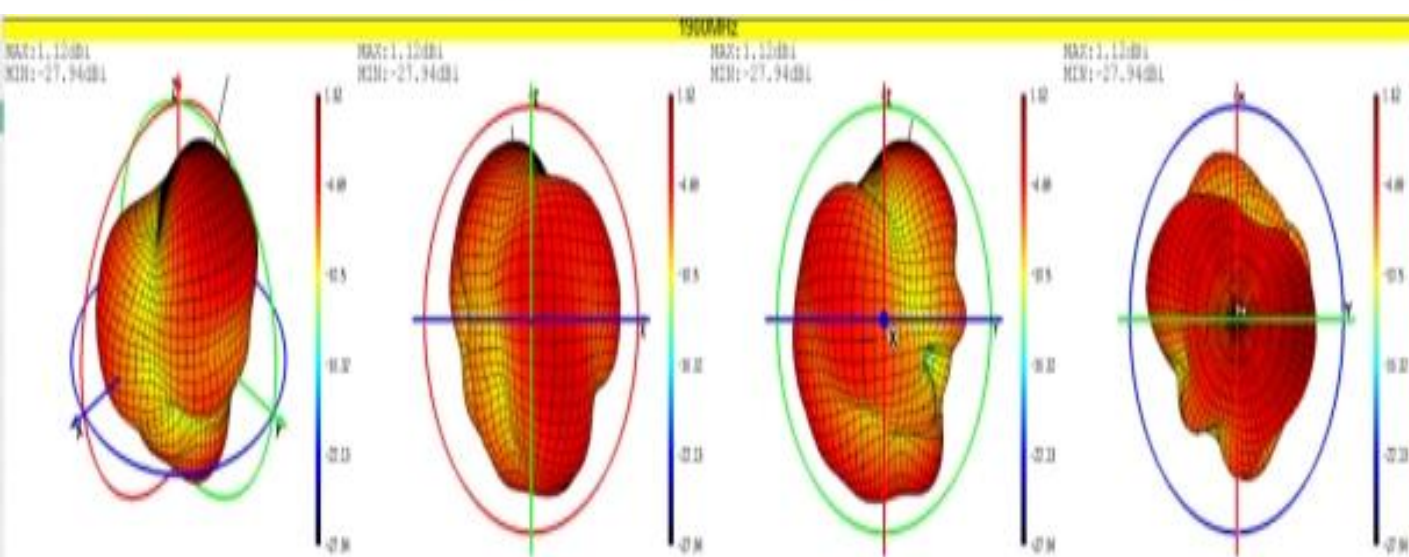
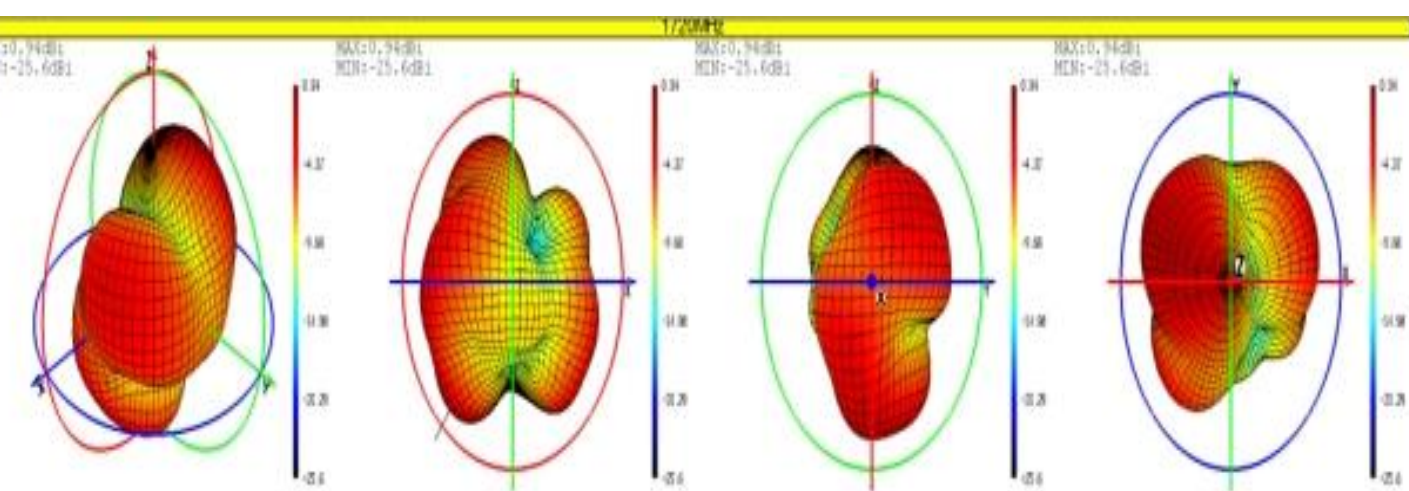
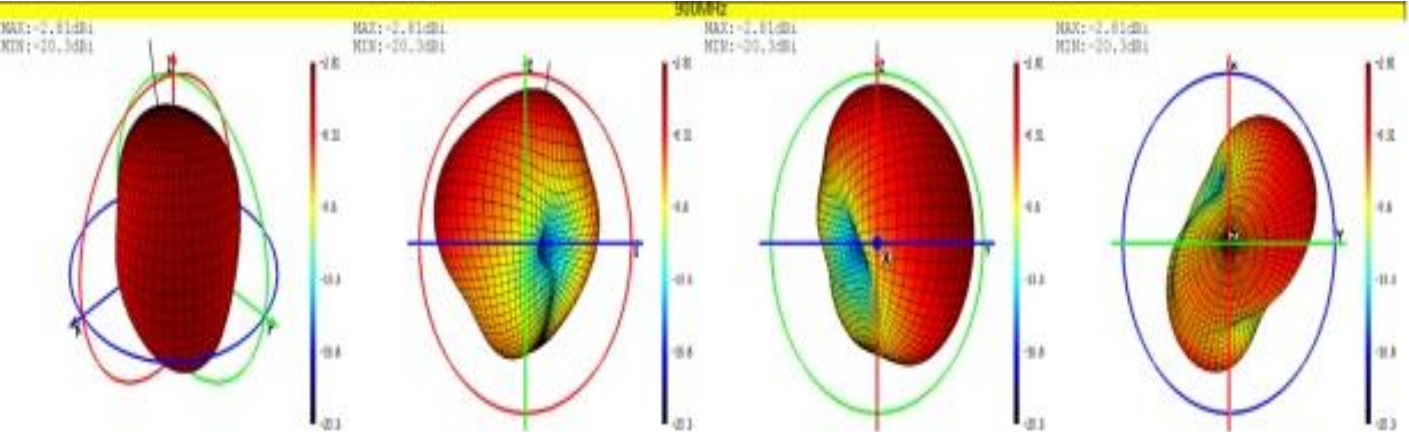


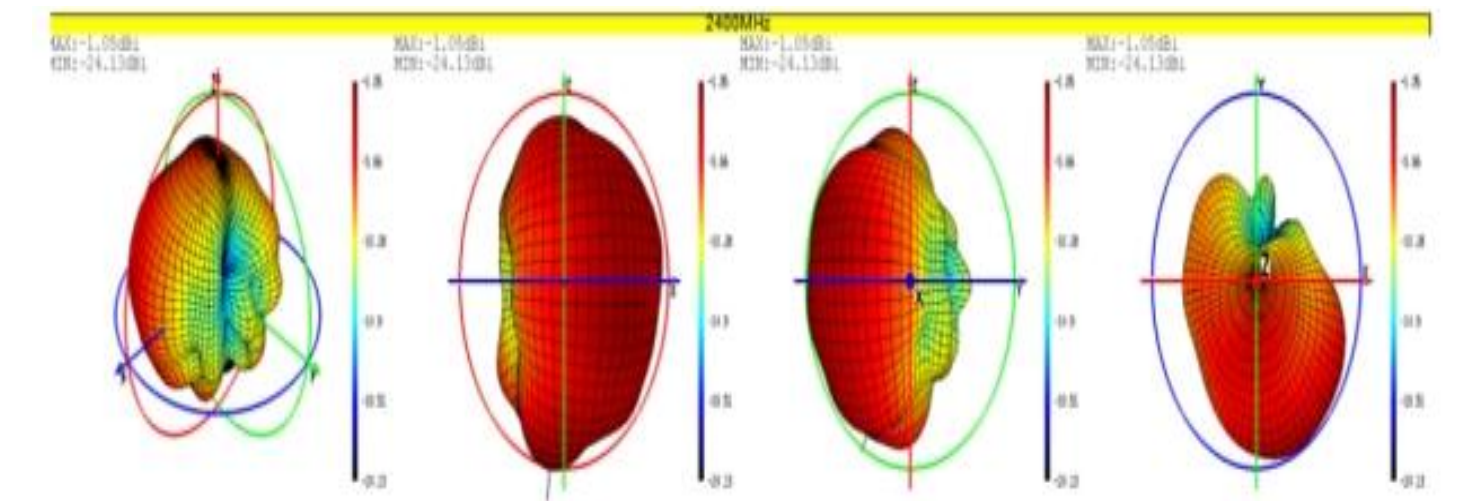
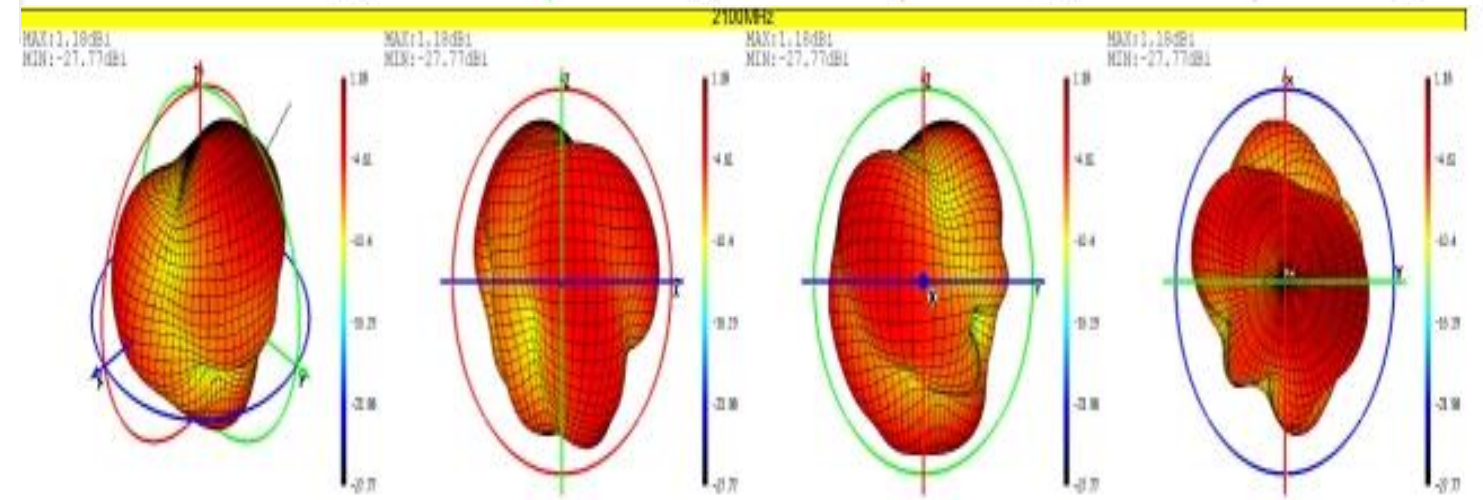
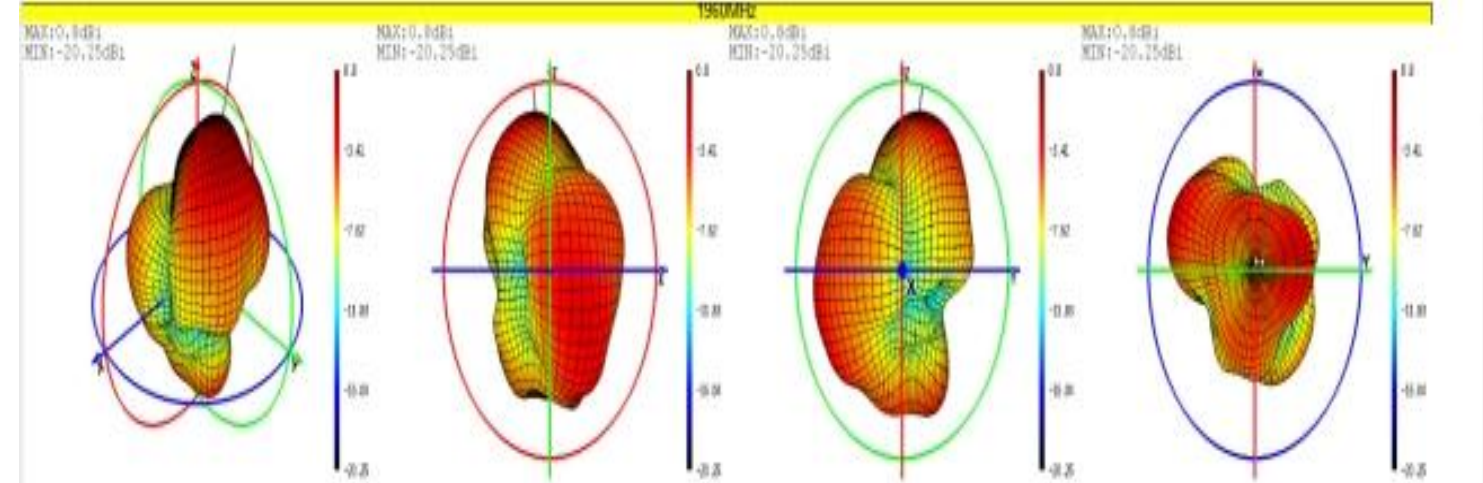
天线增益(Antenna gain)

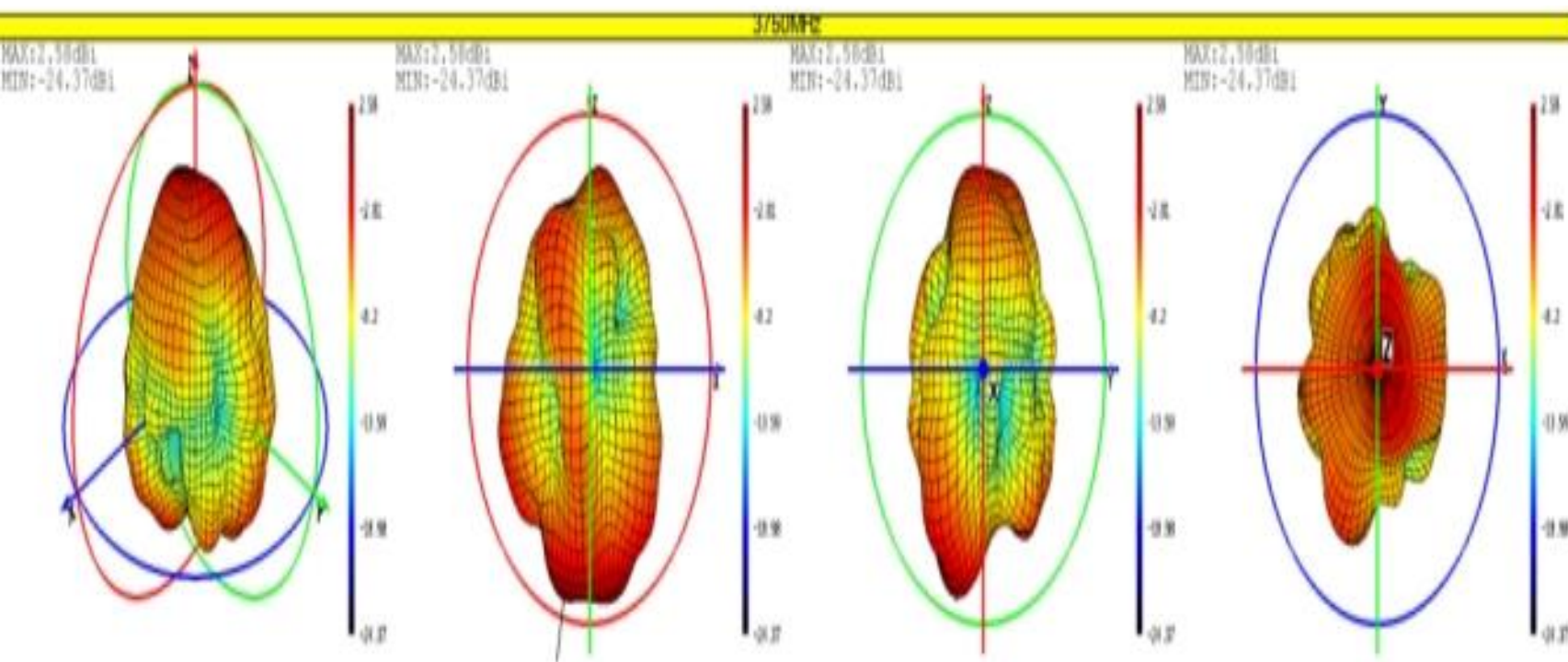
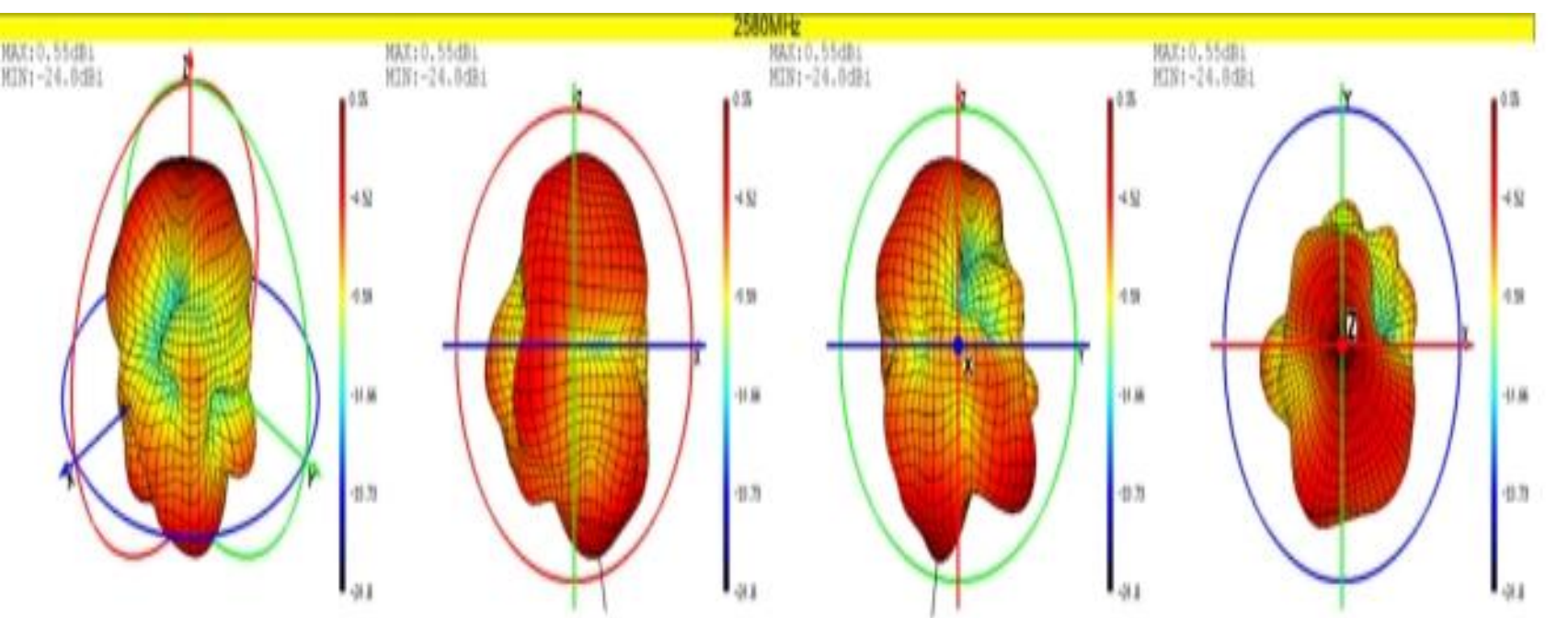
Standard	Band (LTE)	Band(NR)	Gain(dbi)			
TDD_LTE	TDD_B34	NR -N34	1.12	WCDMA	WCDMA_B1	1.18
TDD_LTE	TDD_B38	NR -N38	0.55	WCDMA	WCDMA_B2	1.12
TDD_LTE	TDD_B39	NR -N39	1.12	WCDMA	WCDMA_B4	0.94
TDD_LTE	TDD_B40	NR -N40	-1.05			
TDD_LTE	TDD_B41	NR -N41	0.55	WCDMA	WCDMA_B5	-3.06
FDD_LTE	FDD_B1	NR -N1	1.18	WCDMA	WCDMA_B8	-2.81
FDD_LTE	FDD_B2	NR -N2	1.12	WCDMA	WCDMA_B6	-3.06
FDD_LTE	FDD_B3	NR -N3	0.94			
FDD_LTE	FDD_B4		0.94	WCDMA	WCDMA_B19	-3.06
FDD_LTE	FDD_B5	NR -N5	-3.06	GSM	GSM850	-3.06
FDD_LTE	FDD_B7	NR -N7	0.55	GSM	GSM900	-2.81
FDD_LTE	FDD_B8	NR -N8	-2.81	GSM	DCS1800	0.94
FDD_LTE	FDD_B12	NR -N12	-3.18	GSM	PCS1900	1.12
FDD_LTE	FDD_B13		-3.18			
FDD_LTE	FDD_B17		-3.18	NR	NR -N77	2.58
FDD_LTE	FDD_B18		-3.06	NR	NR -N78	2.58
FDD_LTE	FDD_B19		-3.06			
FDD_LTE	FDD_B20	NR -N20	-3.06	2.4G WIFI		1.83
FDD_LTE	FDD_B25	NR -N25		5G WIFI		0.45
FDD_LTE	FDD_B26	NR -N26	-3.06	GPS	L1	2.51
FDD_LTE	FDD_B28	NR -N28	-3.18	BT		1.83
FDD_LTE	FDD_B66	NR -N66	0.94	NFC		0.5
FDD_LTE	FDD_B71	NR -N71	-4.23			

MIMO antenna apple map



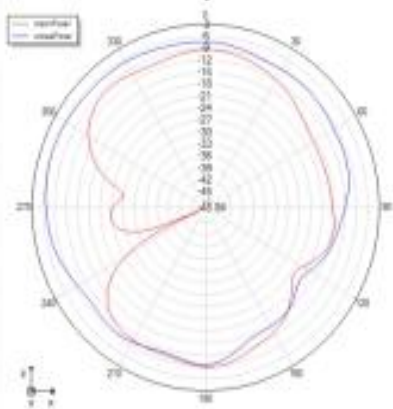




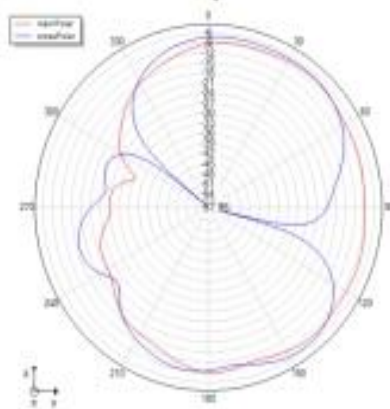


PolarGraphs/EtotalGraphs

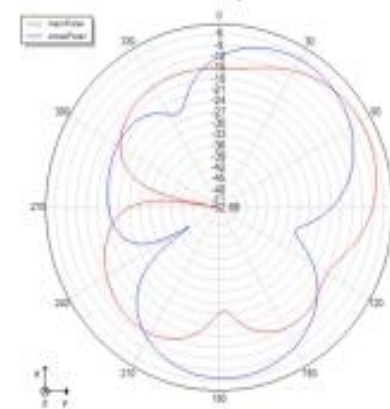
Phi=0 freq=720MHz



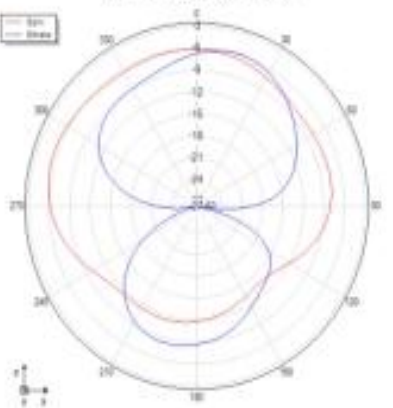
Phi=90 freq=720MHz



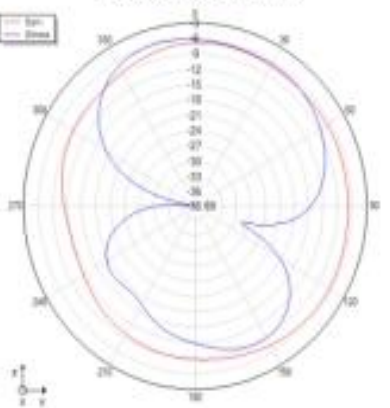
Theta=90 freq=720MHz



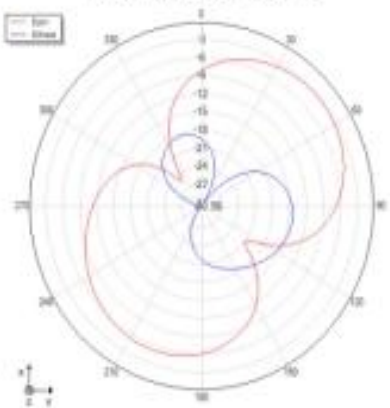
Phi=0 freq=820MHz



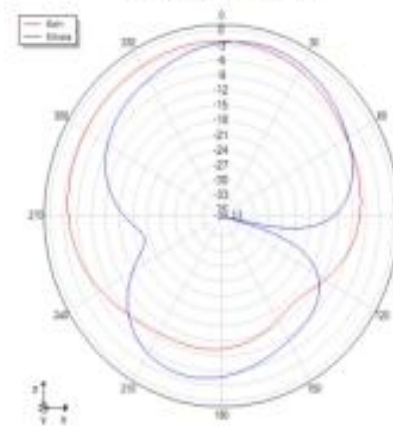
Phi=90 freq=820MHz



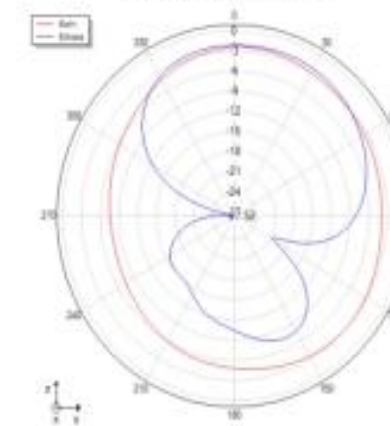
Theta=90 freq=820MHz



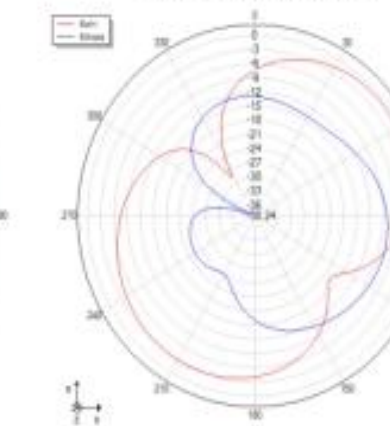
Phi=0 freq=900MHz



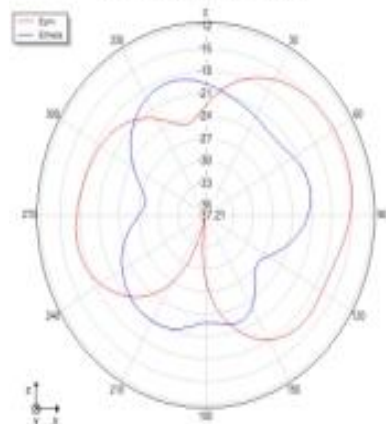
Phi=90 freq=900MHz



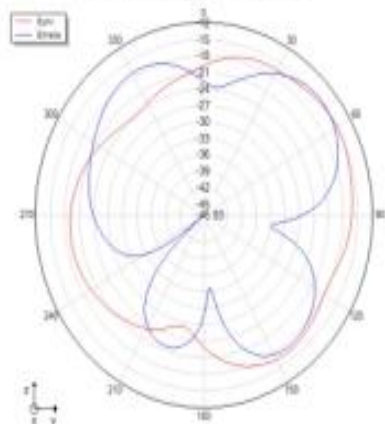
Theta=90 freq=900MHz



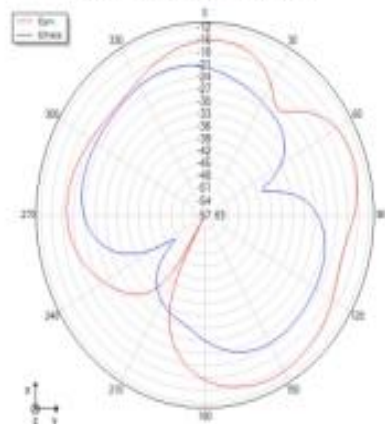
Phi=0 freq=1710MHz



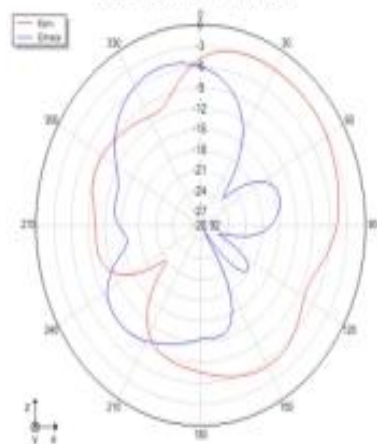
Phi=90 freq=1710MHz



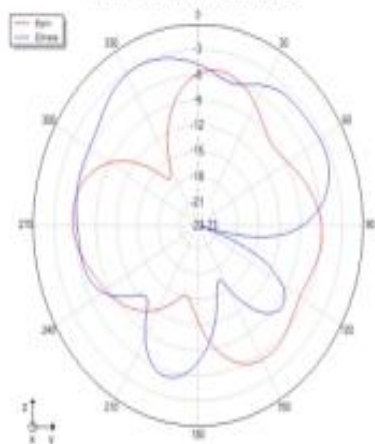
Theta=90 freq=1710MHz



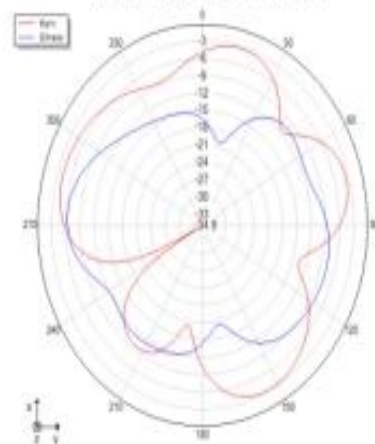
Phi=0 freq=1880MHz



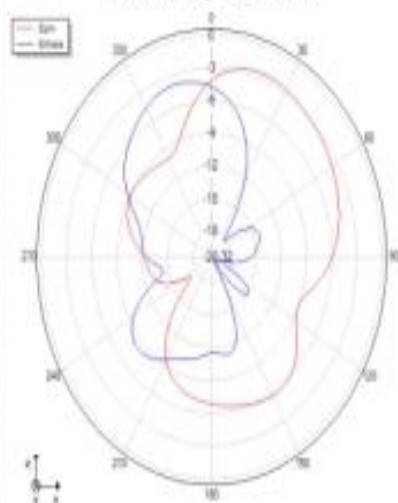
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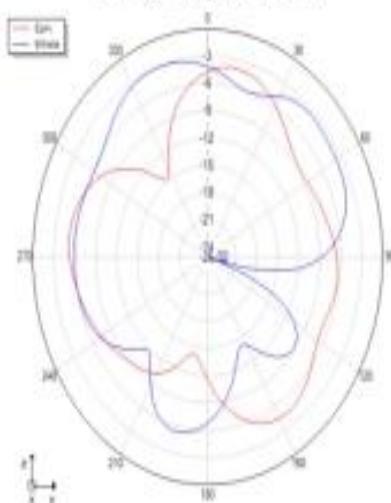
Theta=90 freq=1880MHz



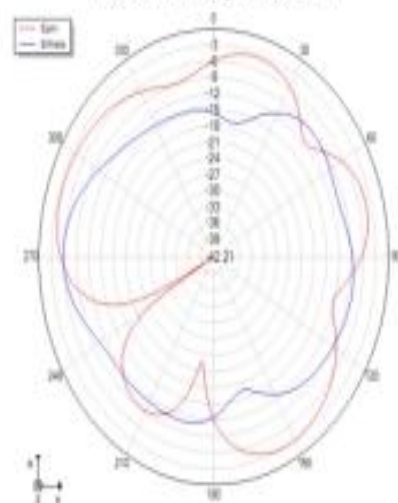
Phi=0 freq=1900MHz



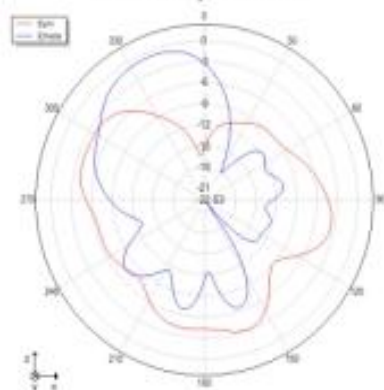
Phi=90 freq=1900MHz



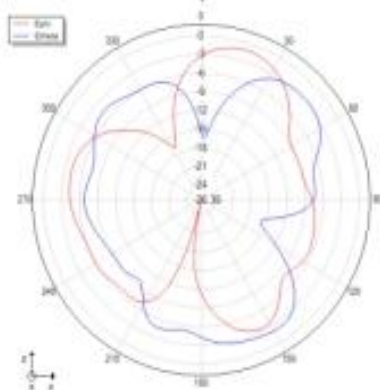
Theta=90 freq=1900MHz



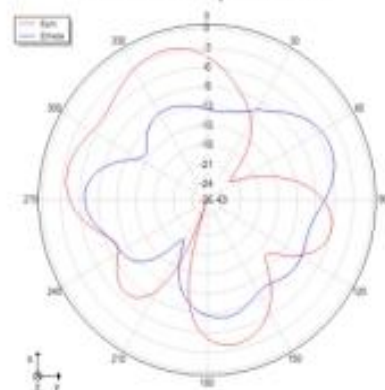
Phi=0 freq=2100MHz



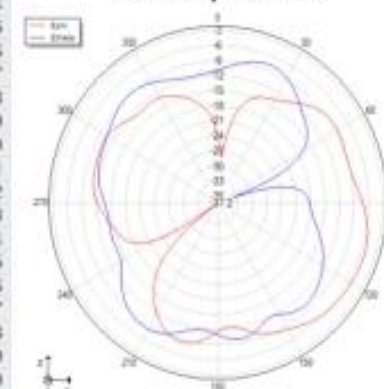
Phi=90 freq=2100MHz



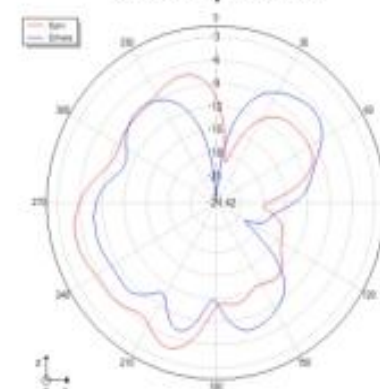
Theta=90 freq=2100MHz



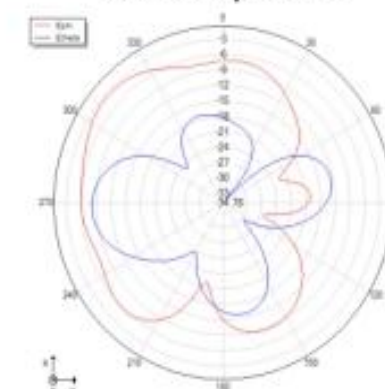
Phi=0 freq=2300MHz



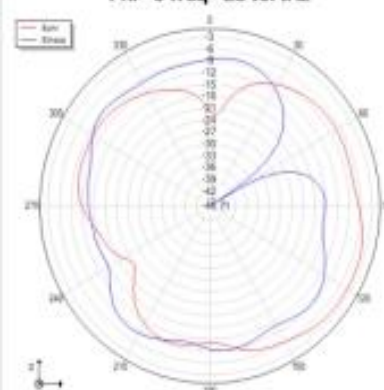
Phi=90 freq=2300MHz



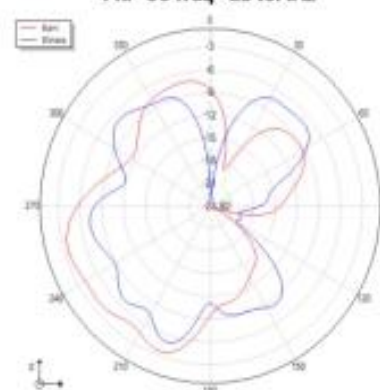
Theta=90 freq=2300MHz



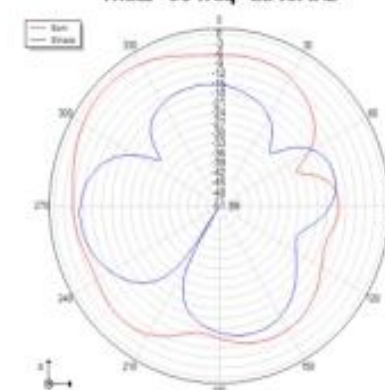
Phi=0 freq=2340MHz



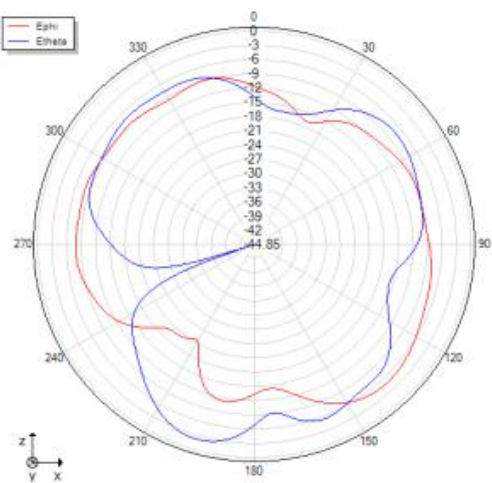
Phi=90 freq=2340MHz



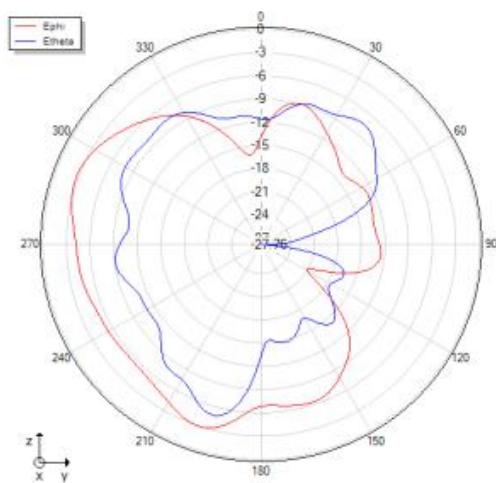
Theta=90 freq=2340MHz



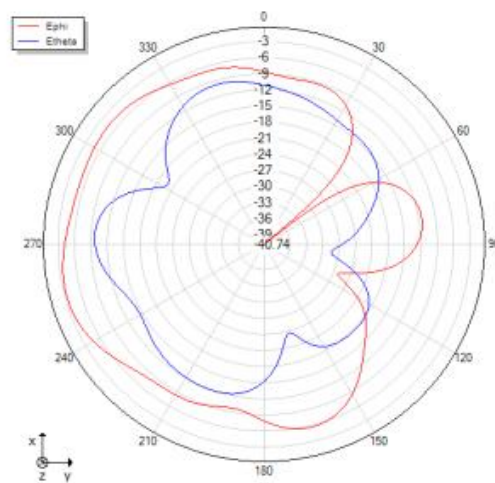
Phi=0 freq=2580MHz



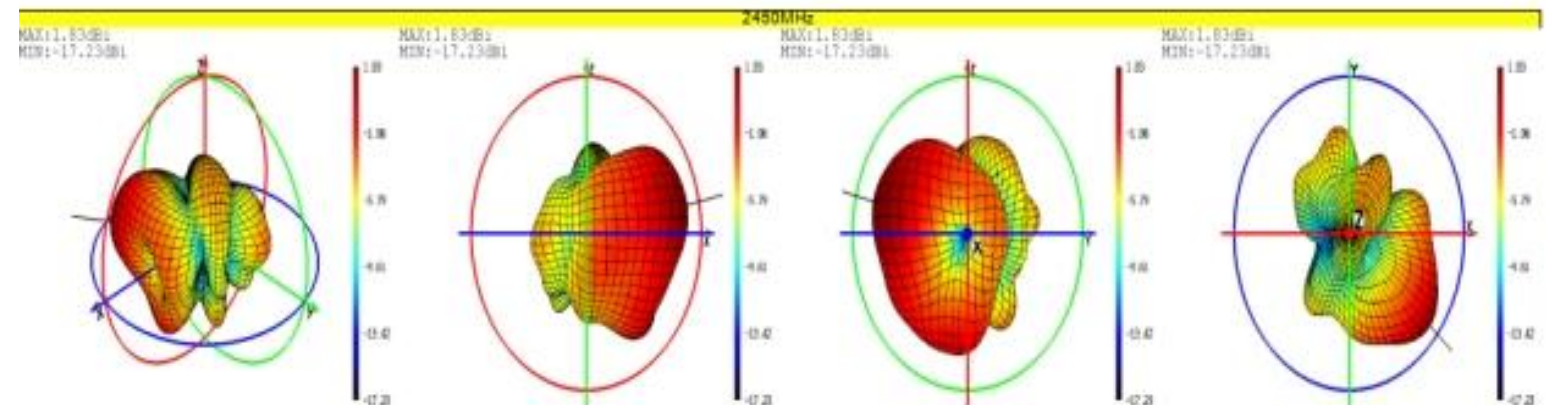
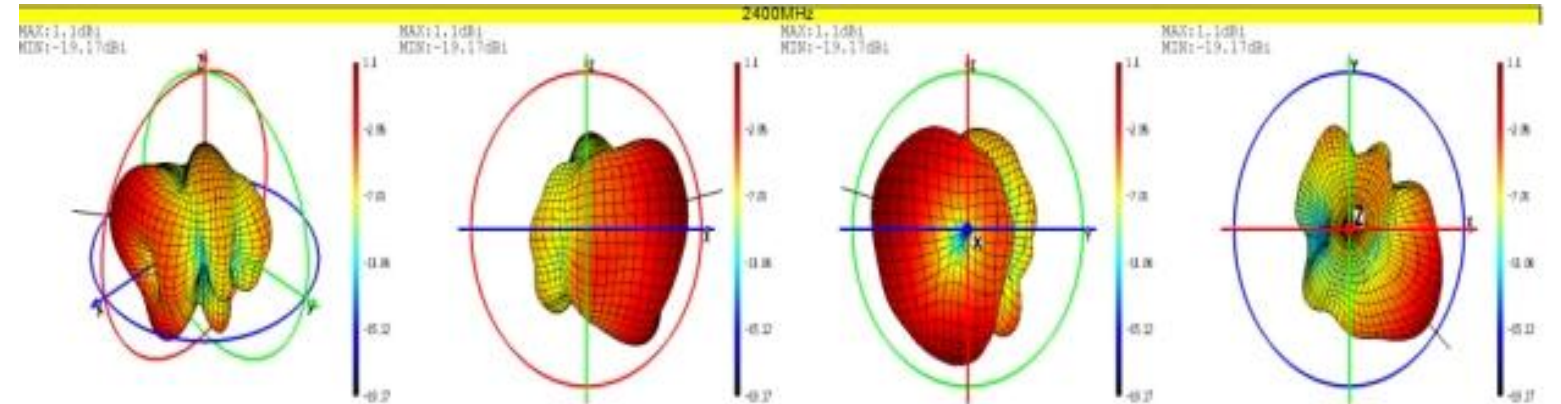
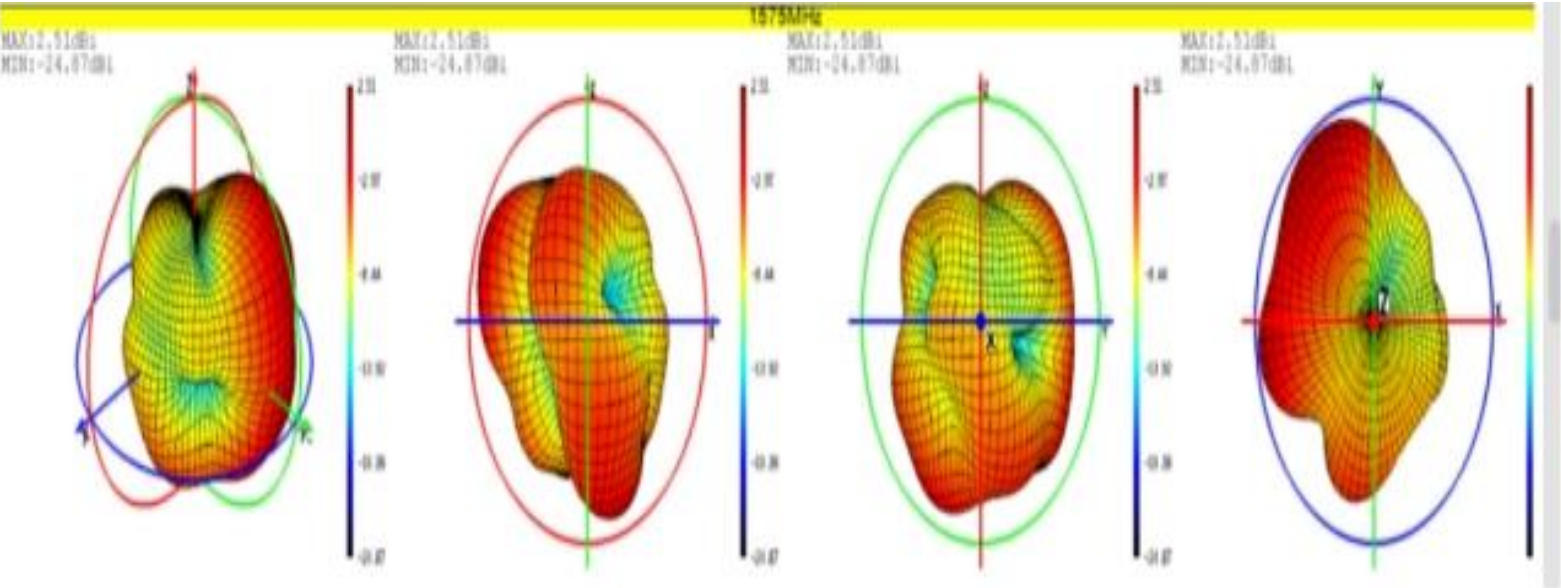
Phi=90 freq=2580MHz

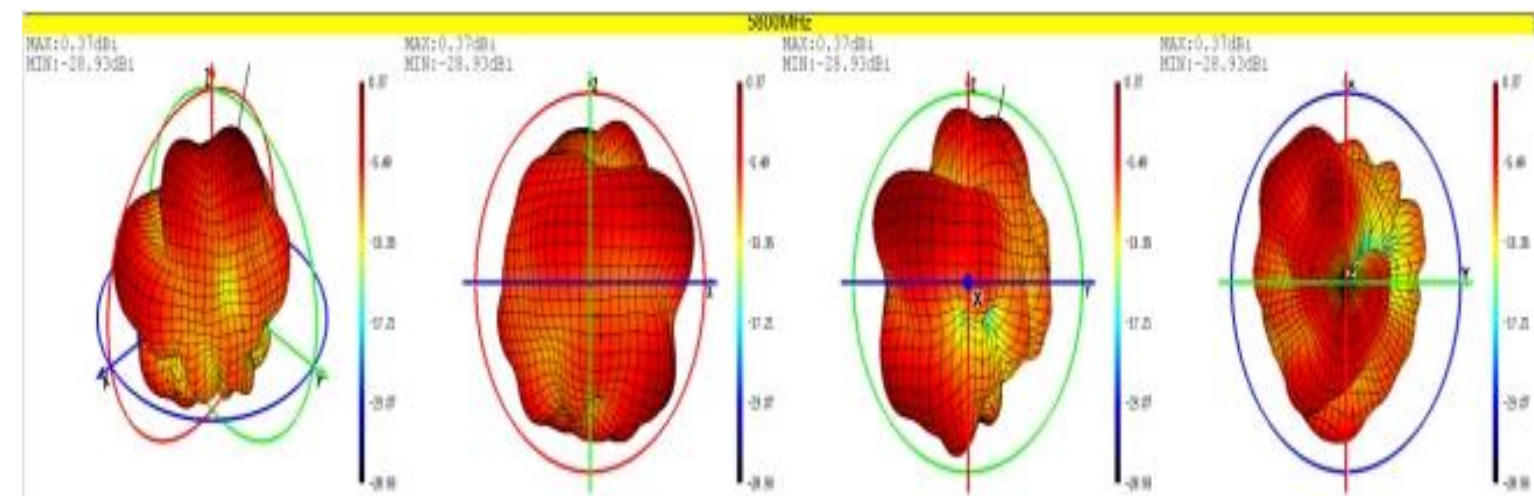
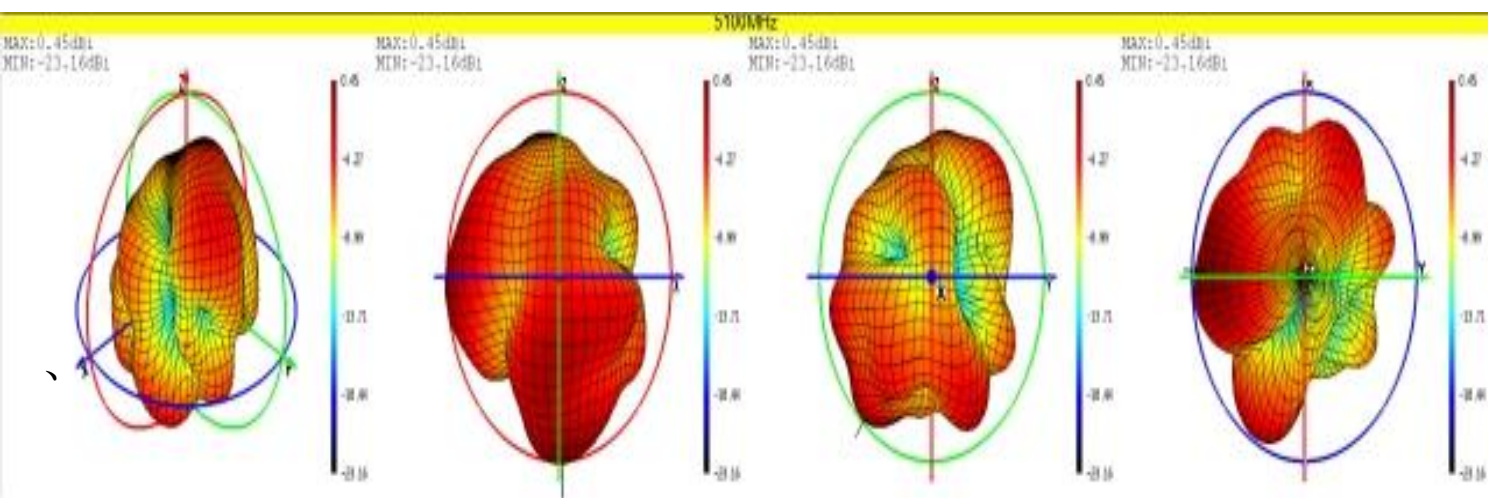
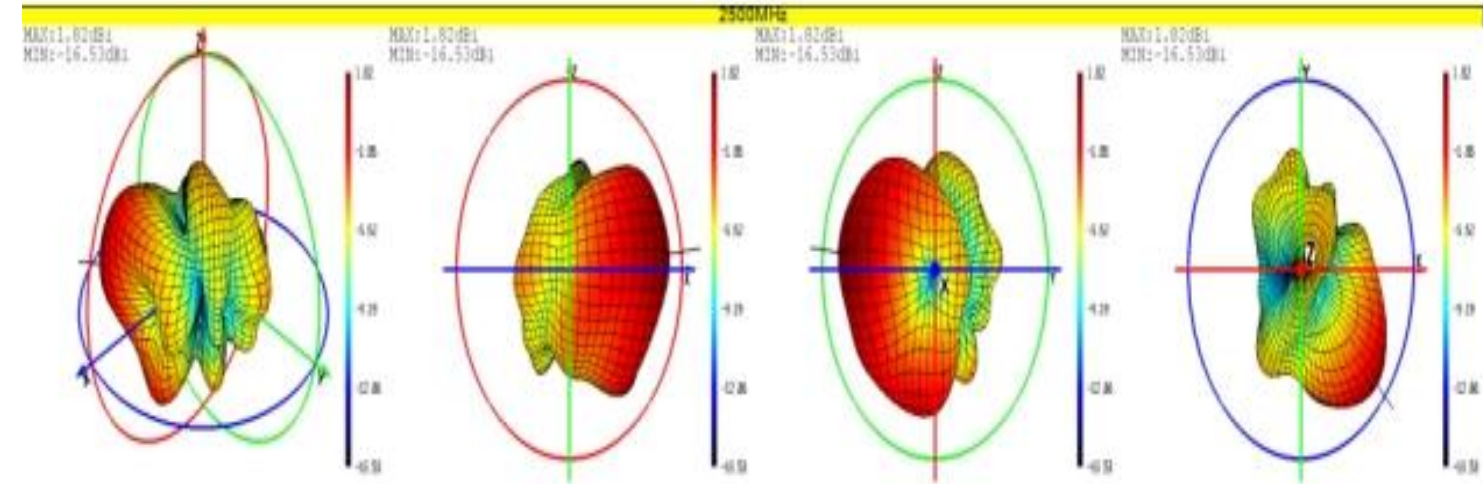


Theta=90 freq=2580MHz



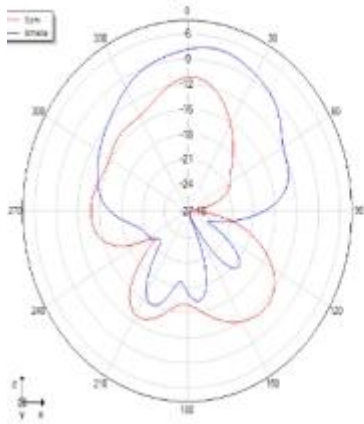
(GPS antenna) + (2.4G/5G WIFI/BT antenna) apple Map



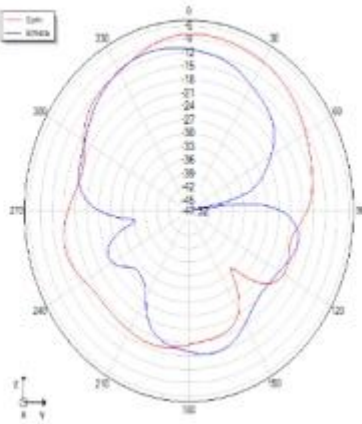


(GPS antenna) + (2.4G/5G WIFI/BT antenna) PolarGraphs/EtotalGraphs

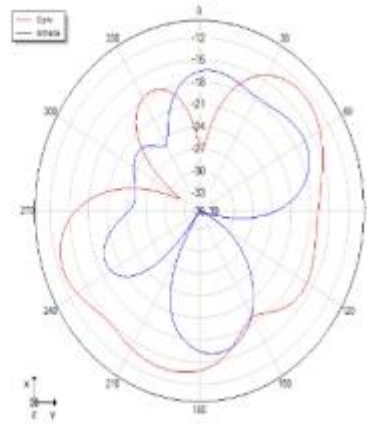
Phi=0 freq=1575MHz



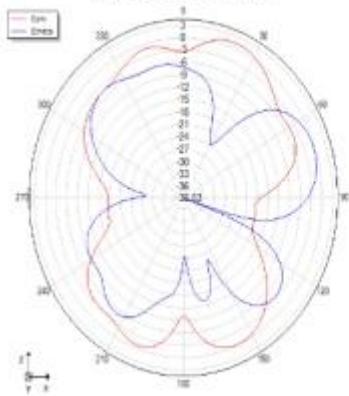
Phi=90 freq=1575MHz



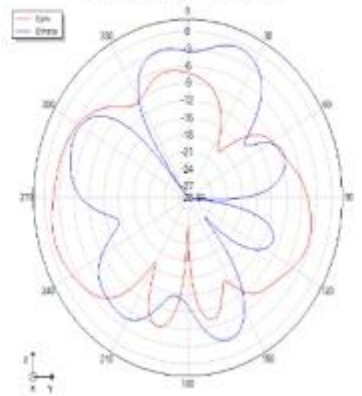
Theta=90 freq=1575MHz



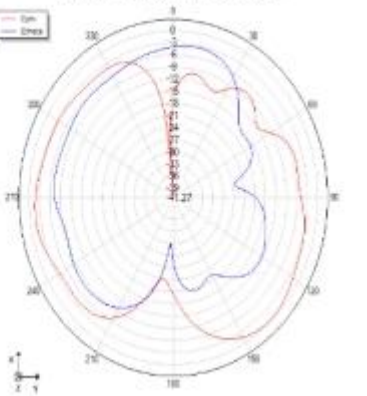
Phi=0 freq=2400MHz



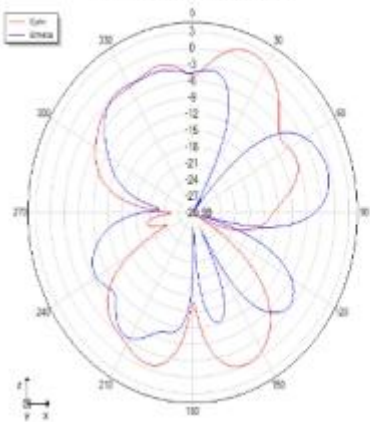
Phi=90 freq=2400MHz



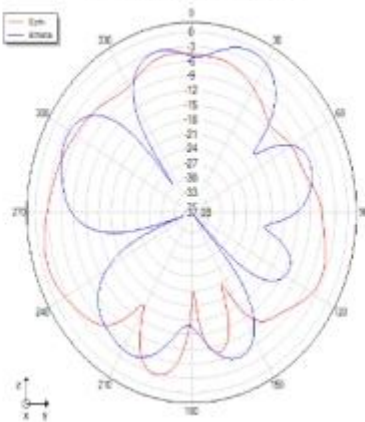
Theta=90 freq=2400MHz



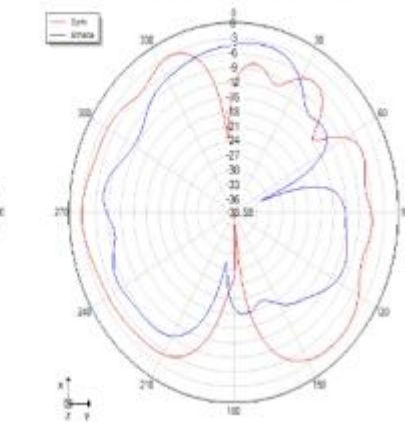
Phi=0 freq=2500MHz



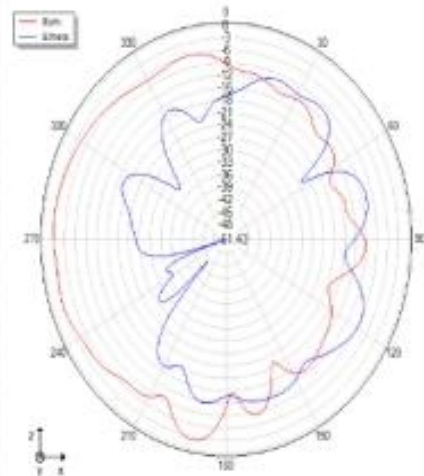
Phi=90 freq=2500MHz



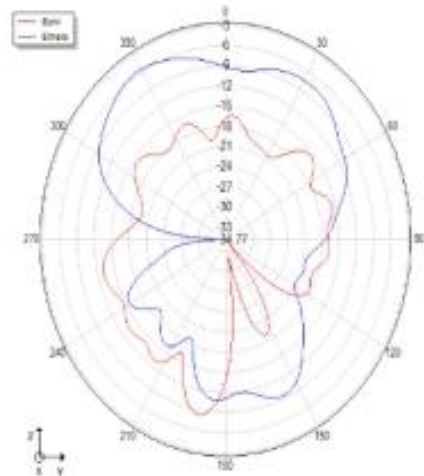
Theta=90 freq=2500MHz



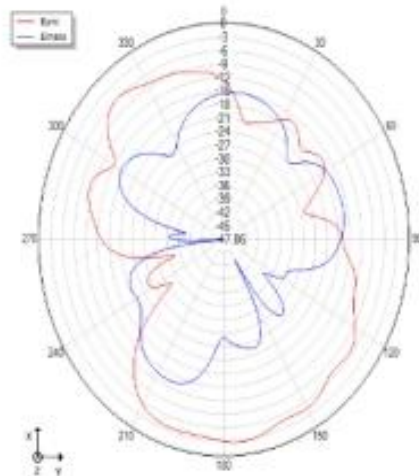
Phi=0 freq=5100MHz



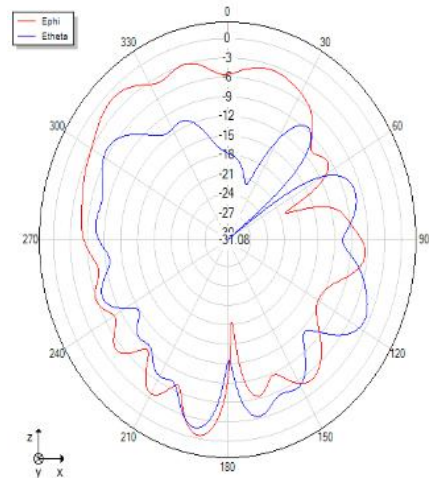
Phi=90 freq=5100MHz



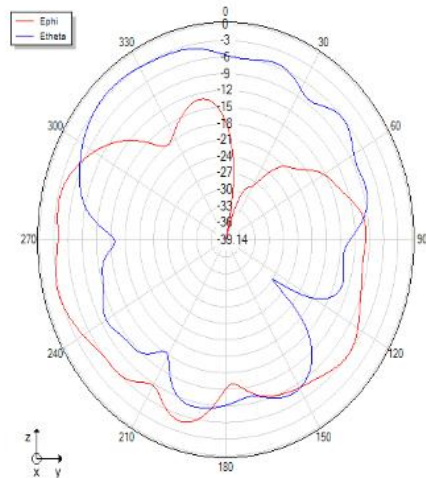
Theta=90 freq=5100MHz



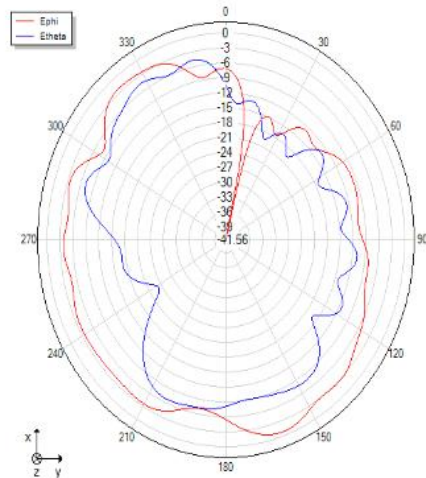
Phi=0 freq=5800MHz



Phi=90 freq=5800MHz



Theta=90 freq=5800MHz

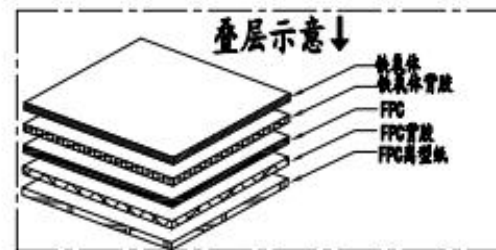
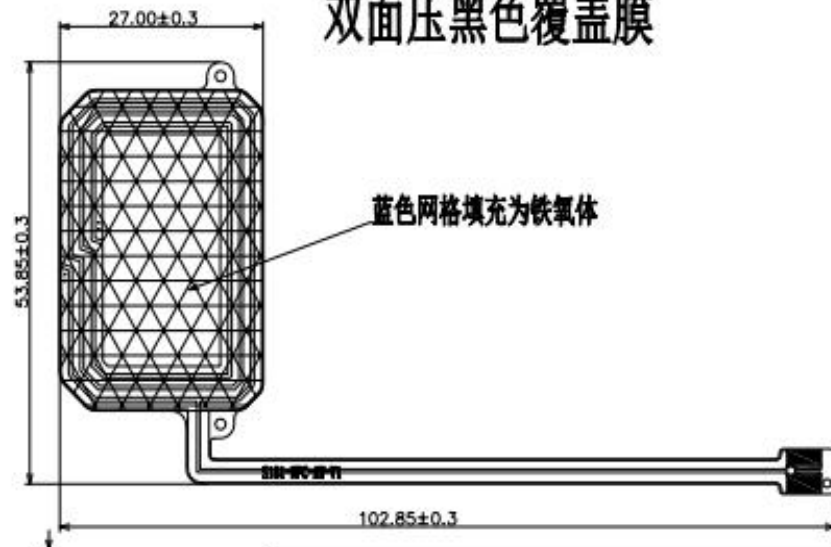




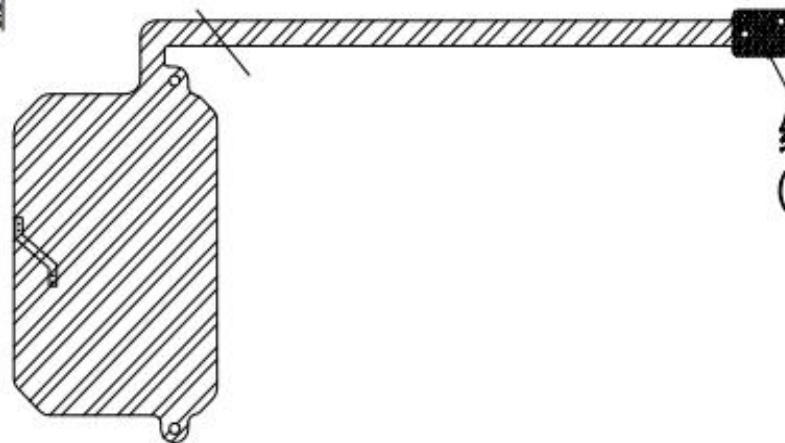
丝印白色亮光字码

双面压黑色覆盖膜

正面



背面



红色网格填充为钢片补强
(SUS304 T=0.2mm)

镀金 $\geq 2U''$ ——转接版本

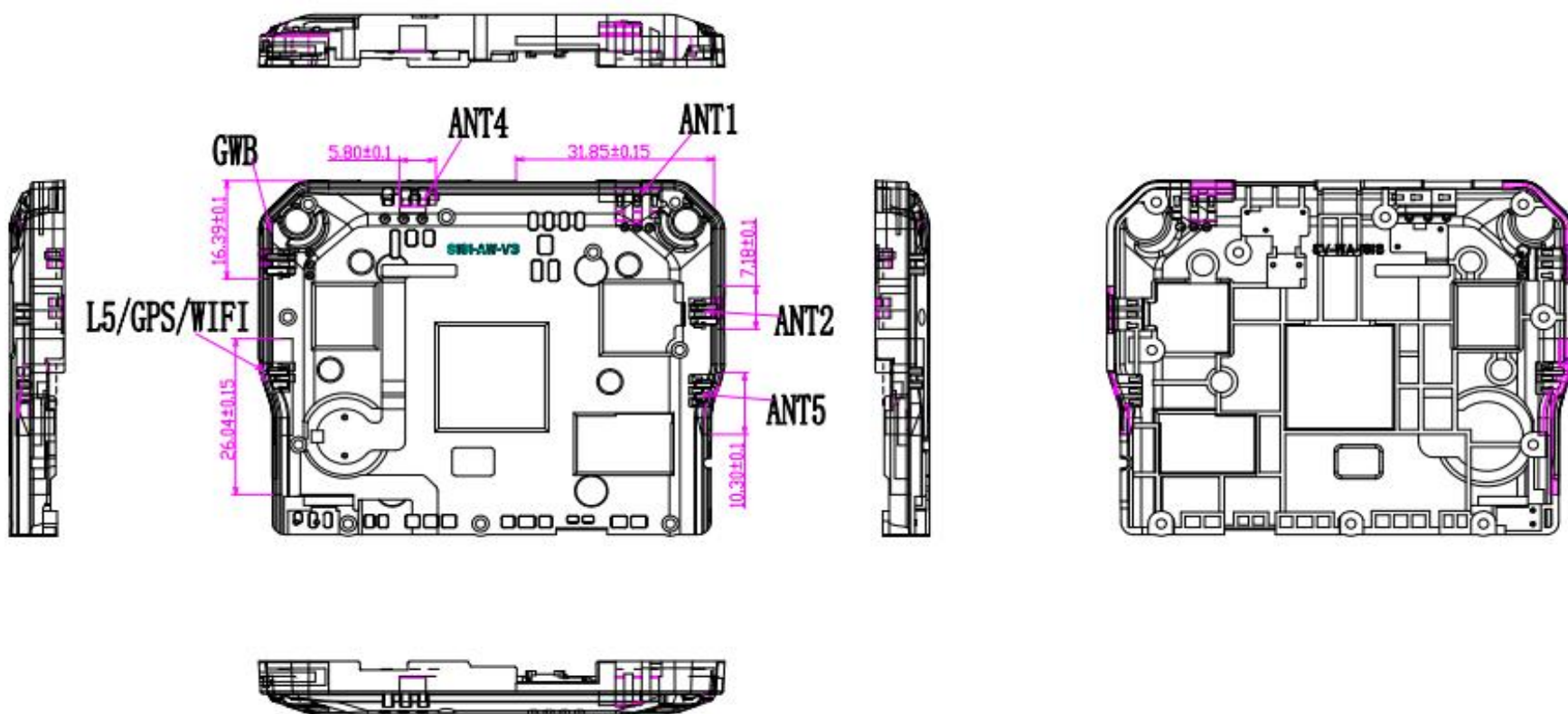
技术要求:

半对半材料

- 1、绿色为外形轮廓,白色填充部位为电气走线覆铜;
- 2、基材材质为聚酰亚胺或聚酯薄膜;
- 3、图示为正面,反面背胶,此FPC背胶3M300LSE(9471LE);
- 4、打*为必测尺寸及重点尺寸,铜箔线路所有尺寸公差不得超过 ± 0.05 ,
模具冲出外型尺寸公差不得超过 ± 0.15 ,未注尺寸以图形为准;
- 5、基材 $25\mu m$,铜箔 $18\mu m$,电镀 $2-6\mu m$;镀金 $2U''$;
走线面除焊盘外其它区域表面亚光黑色;
- 6、可靠性测试:盐水喷雾试验48H\橡皮摩擦测试(100个循环)\耐醇性测试(50个循环)\
恒温恒湿试验\冷热冲击试验(12个循环)\附着力测试\金手指引脚处挠折性测试;
- 7、出现下列问题均视为不合格:起泡分层\露铜\折皱、折痕\边缘毛边\字符不清;
- 8、包装应防湿、防潮、表面干净,完好无破损。

深圳市安威无线科技有限公司

第三视角				项目名称	S181	日 期		2025-07-23			
0°~10	±0.05	⊕	0.03			设 计					
10°~30	±0.10	○	0.03	产品名称	NFC天线	审 核	MD	QYL			
30°~50	±0.15	◎	0.02				RF	WX			
50°~80	±0.20	⊥	0.02	产品料号	AW006-S181-020-A0	批 准					
角度	±1°	▱	0.05								
第1页, 共1页				材 质	FPC	单位	mm	比例	FIT	版本	A1

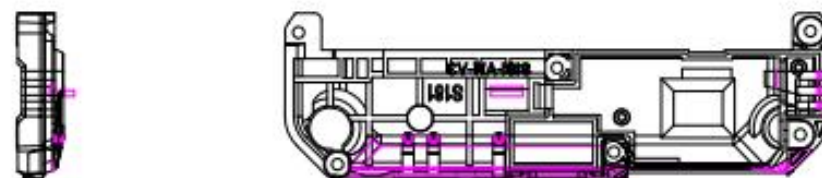
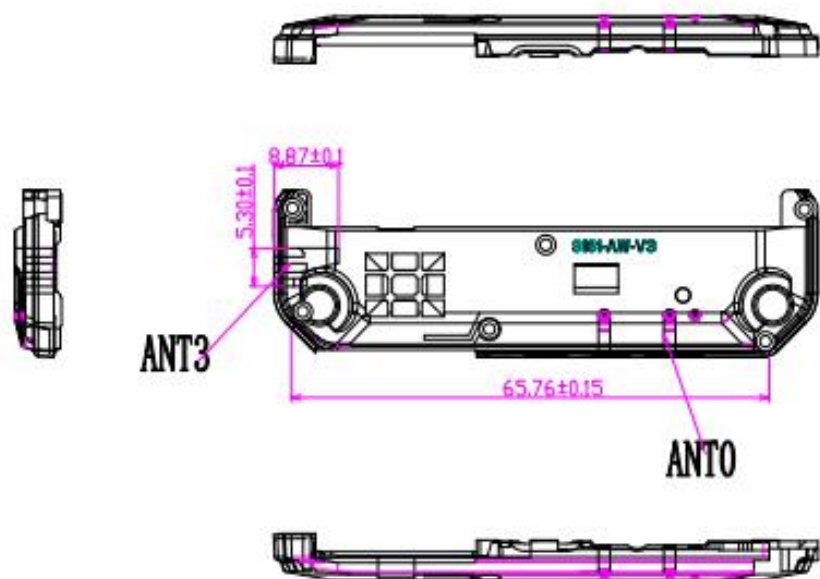


技术要求:

1. 化镀后LDS天线不可出现开裂,脱落
溢镀,漏铜,漏镀等不良 (Cu: 8-12um, Ni: 2-6um)
厚度测绘点随机测试;
2. 产品需要做可靠性测试(百格, 48小时盐雾测试);
4. 制品外观质量应符合我司外观检验标准要求,
(化镀后, 产品表面不允许出现收缩和变形);
5. 成品需要过网分全检, 检测数据需要存档可查;
6. 带*的尺寸是重要尺寸, 是QC必检验尺寸,
未注尺寸请查看2D/3D电子图档, 线路公差按 $\pm 0.1\text{mm}$ 管控;
7. 出货包装方式: 吸塑盘摆盘出货;
8. 标带  的尺寸需要做CPK, CPK值 ≥ 1.33 。
9. 环保要求: ROHS2.0/HF。

深圳市安威无线科技有限公司

第三视角				项目名称	S181	日期		2025-10-22			
0~3	±0.05		±0.05			设计					
3~30	±0.10		±0.05	产品名称	LDS天线组件	审核	MD	QYL			
30~50	±0.15		±0.05					RF			WX
50~80	±0.20		±0.05	产品料号	AW006-S181-022-A0	批准					
角度	±1°		±0.05				单位	mm	比例	FIT	版本
第 1 页, 共 1 页											



1. 化镀后LDS天线不可出现开裂,脱落
溢镀,漏铜,漏镀等不良(Cu: 8-12um, Ni: 2-6um)
厚度测绘点随机测试;
2. 产品需要做可靠性测试(百格, 48小时盐雾测试);
4. 制品外观质量应符合我司外观检验标准要求,
(化镀后, 产品表面不允许出现收缩和变形);
5. 成品需要过网分全检,检测数据需要存档可查;
6. 带*的尺寸是重要尺寸,是QC必检验尺寸,
未注尺寸请查看2D/3D电子图档,线路公差按 $\pm 0.1\text{mm}$ 管控;
7. 出货包装方式:吸塑盘摆盘出货;
8. 标带 的尺寸需要做CPK, CPK值 ≥ 1.33 。
9. 环保要求: ROHS2.0/HF。

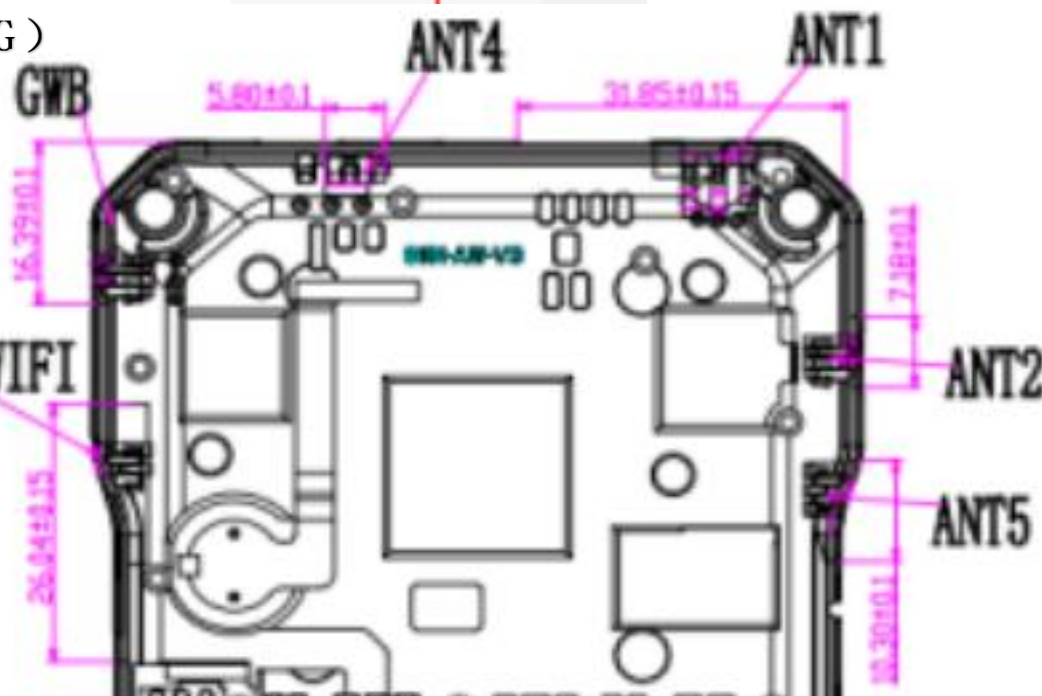
深圳市安威无线科技有限公司										
 第三视角				项目名称	S181	日期		2025-10-22		
0~3	±0.05		±0.05			设计				
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50~80	±0.20		±0.05			产品料号	AM006-S181-021-A0	批准		
角度	±1°		±0.05	单位				mm	比例	FIT
第 1 页, 共 1 页										

WIFI0 (2.4+5G)
GPS L1
BT

WIFI1 (2.4+5G)
GPS L5

L5/GPS/WIFI

ANT4:N77/78 DRX



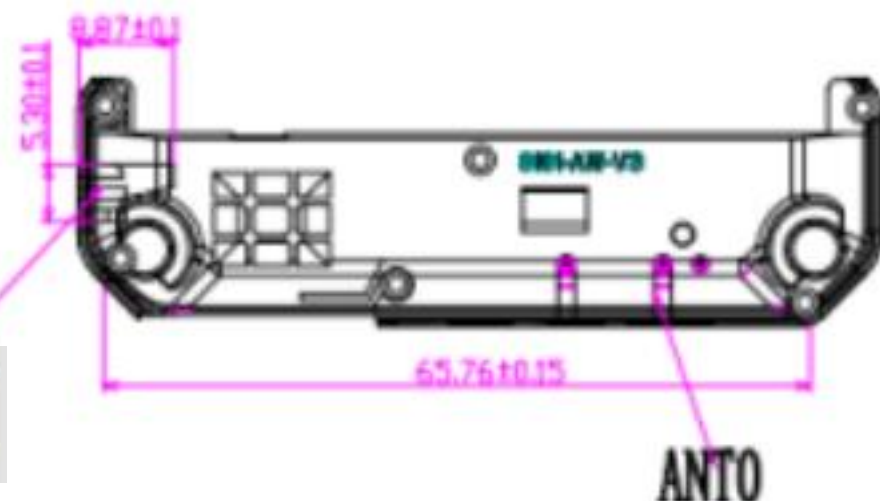
ANT1:TRX

GSMB2/3 WCDMA:B1/B2/B4
LTE:1/2/3/4/7/25/66
N1/N2/N3/N7/N25/N66/N34
/N38/N39/N40/N41

ANT2:N77/78 TRX

ANT5:
N77/78 MIMO+MHB1700-2700Mhz

ANT3



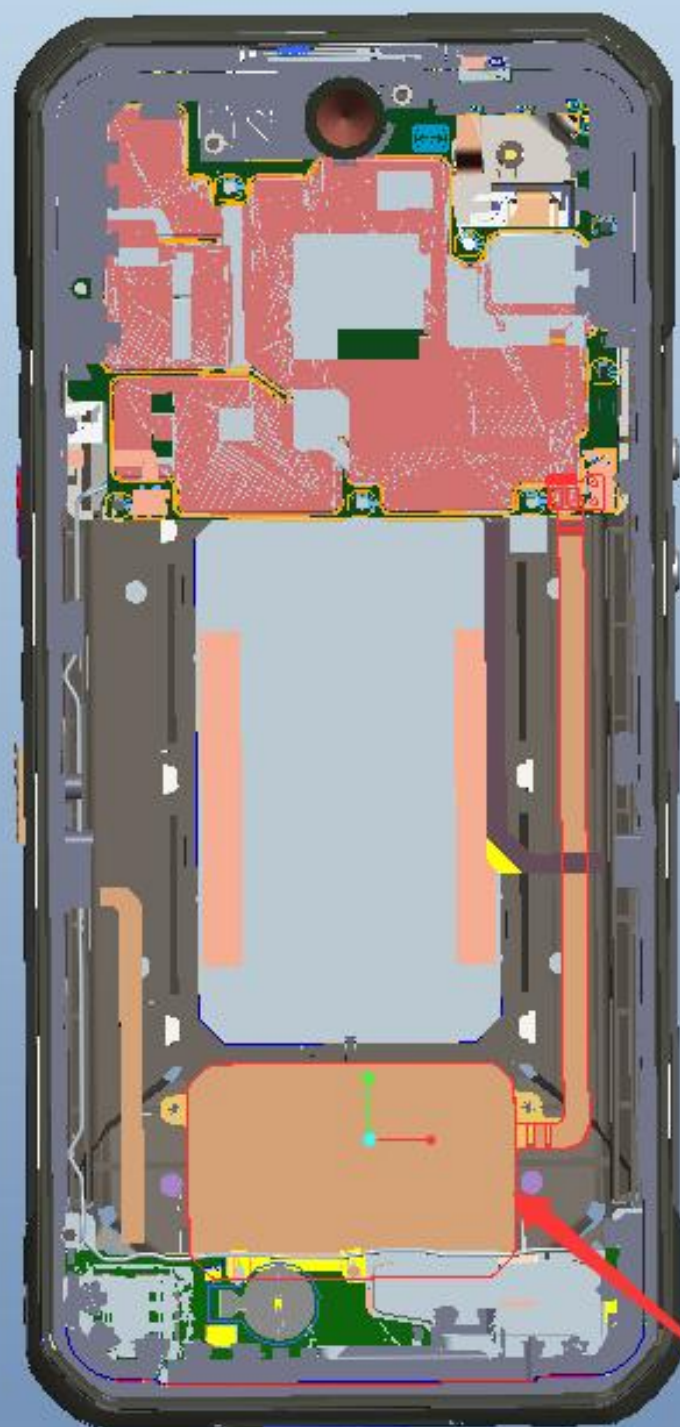
ANT3:副板端(五代同轴座)
N77/78 MIMO+MHB1700-2700Mhz

ANT0:GSMB8 WCDMA:B8
LTE:8 NR:N8

GSMB5 WCDMA:B5/B6/B19
LTE:B5/B20/B18/B19/B26 NR:N5/N20/N26

LTE:12/13/17/28 NR:N12/N28
LTE:71 NR:N71

(TRX)



NFC



深圳市安威无线科技有限公司

行业领先的一站式通信射频天线解决方案制造商

The End

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携手共进 共创未来