

ANWEI communication Equipment Co.,Ltd

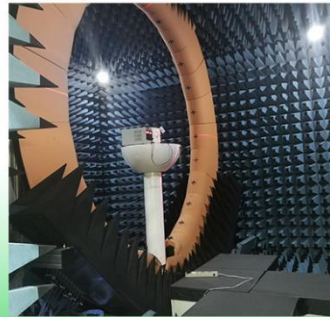
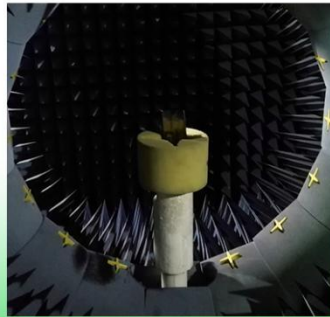
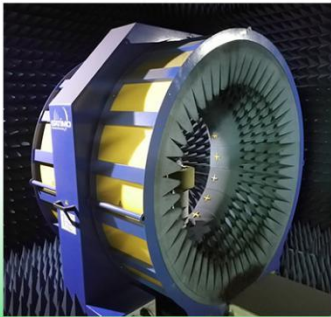
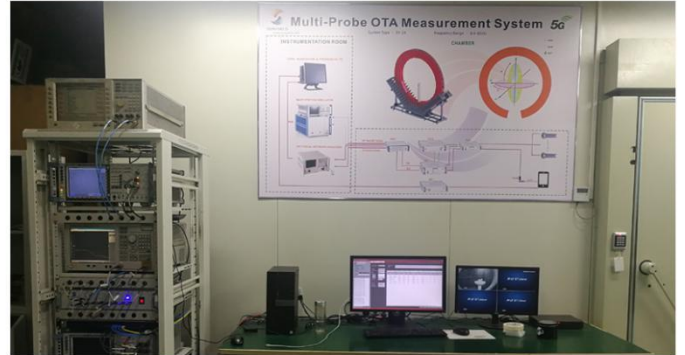
APPROVAL SHEET

Customer	Youmi	Specs	G3TAB
Part Number	AW006-G3-TAB-021-A0 AW006-G3-TAB-022-A0 AW006-G3-TAB-023-A0	Frequency Band	2G:GSM850/900/1800/1900 3G:W1/2/5/8 4G:LTE-B1/2/3/4/5/7/8/12/13/17/ 18/19/20/26/28A/B/66/71+TDD34/38/39/40/41
Color	Black	Edition	REV:A0
Salesperson	Mr.Xie	Design	ZHONG ZHI HUI
Structure	QIN YUN LIN	Confirm	
Date	2023/3/29	Signing Date	

Customer confirmation:

ANT Manufacturers: ANWEI communication Equipment Co.,Ltd
 Address:2nd Floor, East Block, Building 5, Yifenghua Innovation Industrial Park, Huaning Road, Dalang Street, Longhua District, Shenzhen City, Guangdong Province

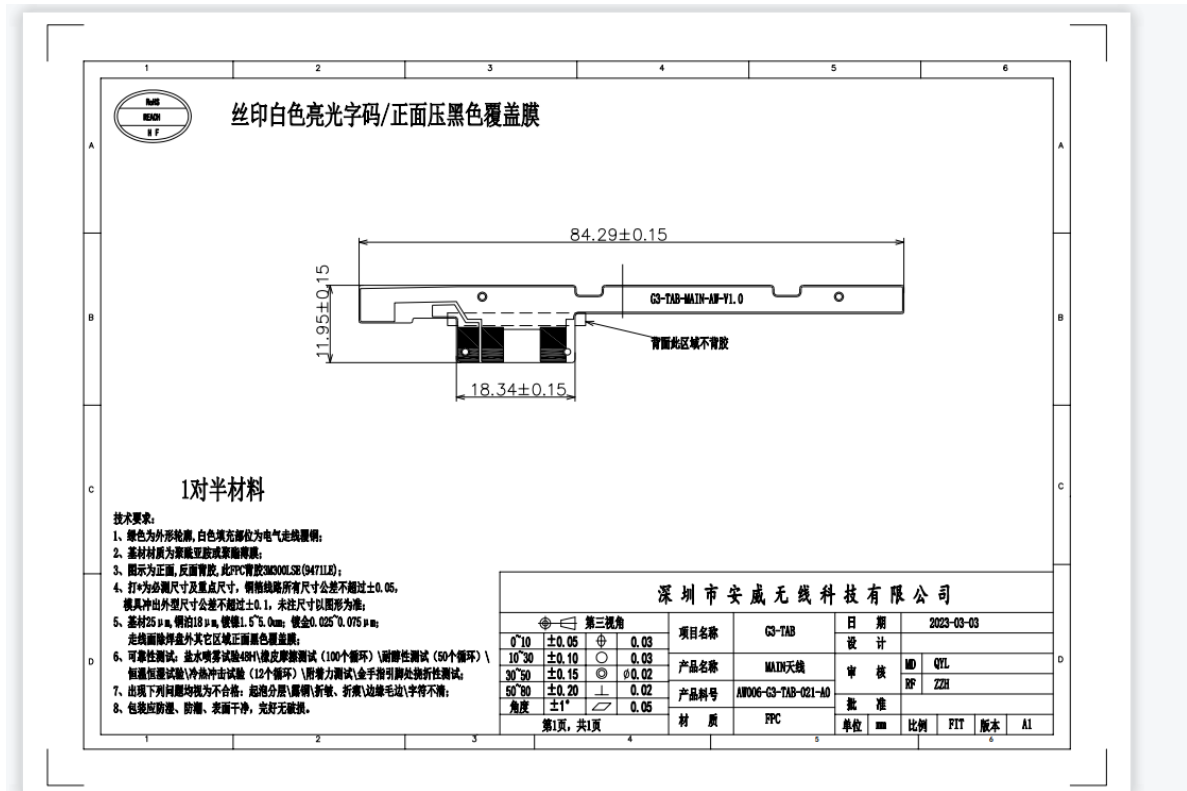
Project development environment



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！

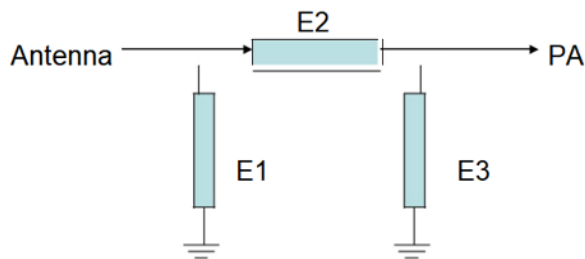
“质量第一，服务至上”是安威一直以来的发展宗旨

(Main antenna)



(Working frequency band): 647MHZ~960MHZ 1710~2690MHZ
 2G:GSM850/900/1800/1900
 3G:W1/2/5/8
 4G:LTE-B1/2/3/4/5/7/8/12/13/17/
 18/19/20/26/28A/B/66/71+TDD34/38/39/40/41

(Matcheing network):



Element	Value
E1, C101	12NH
E2, R100	0 Ω
E3, C100	NC

(DIV antenna)

丝印白色亮光字码/正面压黑色覆盖膜

40.43±0.15

12.79±0.15

8.09±0.1

背面此区域不覆胶

1对半材料

技术要求:

1. 绿色为外形轮廓, 白色填充部位为电气走线覆膜;
2. 基材材质为聚酰亚胺或聚酰亚胺膜;
3. 指示为正面, 反面覆胶, 此PCB背胶3000LSR(9471LE);
4. 打r为必须尺寸且量点尺寸, 铜线导线所有尺寸公差不得超过±0.05, 模具伸出外形尺寸公差不得超过±0.1, 未注尺寸以原形为准;
5. 基材25 μm, 铜箔18 μm, 铜厚1.5%~0.0mm, 镀金0.025~0.075 μm;
6. 总板面除焊盘外其它区域正面黑色覆盖膜;
7. 可靠性测试: 盐雾试验(48h)或耐腐蚀测试(100个循环) \ 耐弯折测试(50个循环) \ 耐冲击测试(12个循环) \ 耐着力测试(金手指引脚处做性能测试);
8. 出现下列问题时视为不合格: 起翘/分层/露铜/折痕/折痕/边缘毛边/字符不清;
9. 包装防静电、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	GS-TAB	日期	2023-03-03
0°10' ±0.05	产品名称	DIV天线	设计	
10°30' ±0.10	产品料号	AW006-GS-TAB-Q21-M0	审核	MD QTL
30°30' ±0.15	材质	PPC	批准	BF ZZB
50°30' ±0.20	单位	mm	比例	FIT
角度 ±1°	版本	A1		

第1页, 共1页

(Working frequency band): 647MHZ~960MHZ 1710~2690MHZ

2G:GSM850/900/1800/1900

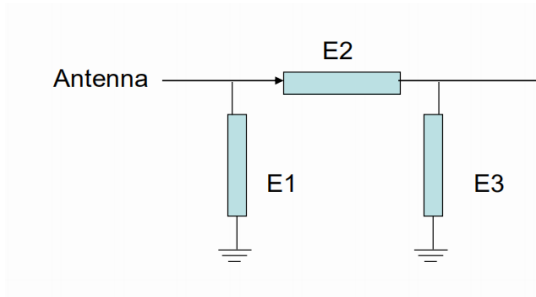
3G:W1/2/5/8

4G:LTE-B1/2/3/4/5/7/8/12/13/17/

18/19/20/26/28A/B/66/71+TDD34/38/39/40/41

Note: DIV antenna only RX

(Matcheing network)

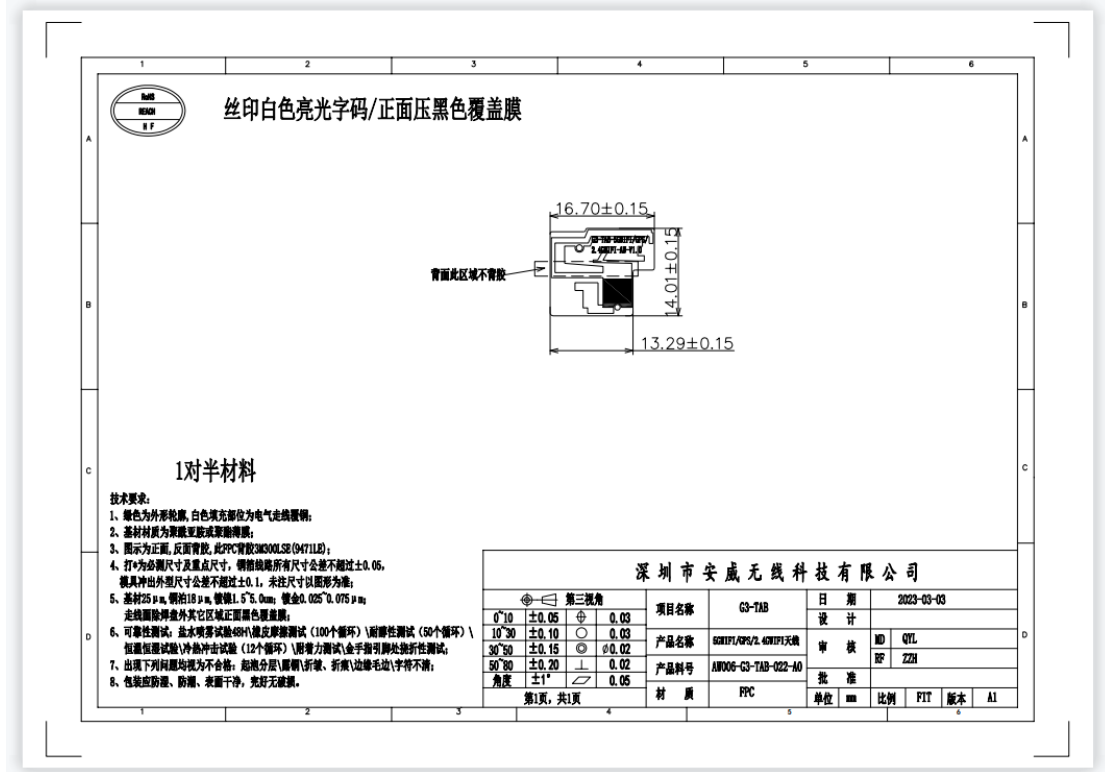


E1=NC

E2=0Ω

E3= NC

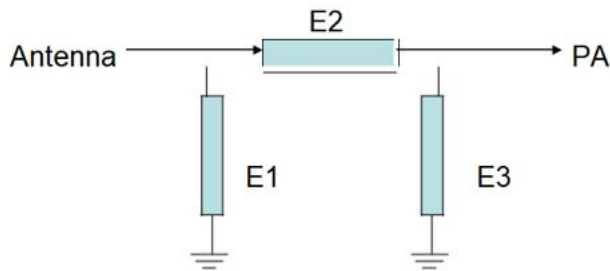
(GPS antenna) + (2.4G/5G WIFI/BT antenna)



(Working frequency band of GPS antenna) : 1559MHZ~1580MHZ

(Working frequency band of 5GWIFI antenna) : 2400~2500,5150MHZ~5850MHZ

(Matcheign network)



Element	Value
E1	NC
E2	0 Ω
E3	NC

ANWEI ANT TRP&TIS parameter Summary of G3TAB

BAND	Channel	TRP (dBm)	TIS (dBm)
FDD B1	L	18.24	
	M	18.45	
	H	18.45	-93.41
FDD B2	L	18.23	
	M	18.62	
	H	18.89	-94.20
FDD B3	L	17.53	
	M	17.00	
	H	17.81	-94.33
FDD B4	L	17.67	
	M	17.62	
	H	17.24	-94.70
FDD B5	L	17.39	
	M	18.04	
	H	18.60	-92.15
FDD B7	L	18.19	
	M	19.47	
	H	18.42	-94.57
FDD B8	L	18.31	
	M	18.02	
	H	17.55	-92.03
FDD B12	L	15.60	
	M	16.10	
	H	16.17	-92.09
FDD B13	L		
	M	17.32	-92.53
	H		

FDD B17	L	16.31	
	M	16.34	
	H	17.14	-92.09
FDD B18	L	16.96	
	M	18.04	
	H	18.15	-92.44
FDD B19	L	17.76	
	M	18.70	
	H	18.53	-92.42
FDD B20	L	18.56	
	M	19.99	
	H	18.73	-93.33
FDD B25	L	17.73	
	M	18.45	
	H	18.43	-94.59
FDD B26	L	16.25	
	M	16.51	
	H	17.69	-93.64
FDD B28A	L	16.97	
	M	16.52	
	H	16.73	-92.58
FDD B28B	L	16.74	
	M	17.45	
	H	17.48	-93.14
FDD B66	L	16.66	
	M	17.49	
	H	18.07	-94.53
	L	15.20	
	M	15.61	
	H	15.17	-90.78

FDD B71			
TDD B34	L	18.24	
	M	19.31	
	H	18.09	-93.80
TDD B38	L	18.67	
	M	18.87	
	H	18.19	-90.23
TDD B39	L	18.41	
	M	18.37	
	H	18.54	-92.42
TDD B40	L	16.40	
	M	16.78	
	H	16.95	-89.62
TDD B41	L		
	M	18.01	-90.88
	H		
WCDMA-B1	L	18.82	
	M	18.75	
	H	18.71	-106.58
WCDMA-B2	L	18.76	
	M	18.95	
	H	19.42	-106.85
WCDMA-B4	L	18.31	
	M	18.29	
	H	18.32	-106.08
WCDMA-B5	L	17.64	
	M	18.32	
	H	18.62	-105.14

WCDMA-B8	L	19.14	
	M	18.07	
	H	18.39	-104.26

	Channel	TRP (dBm)	TIS (dBm)
GSM850	L	25.72	
	M	26.49	
	H	26.86	-103.25
GSM900	L	26.35	
	M	25.93	
	H	25.52	-103.77
DCS1800	L	25.16	
	M	24.99	
	H	24.54	-105.63
PCS1900	L	24.05	
	M	24.44	
	H	25.40	-104.80
2.4G WIFI B 模 11M	L	14.54	-84.04
	M	14.58	-83.96
	H	14.34	-83.94
5 G WIFI A 模 54M	L	12.55	-72.58
	M	11.22	-71.72
	H	11.41	-72.19

(GPS Test)

YGPS

SATELLITES CNR SATELLITES LOC INFORMATION HDOP LOG GPS TEST MW STATUS

G:GPS R:GLN B:BD E:GAL Q:QZS L:LLS I:IRNSS S:SBAS

Average CNR
 3342/++++ 3268/++++ 3289/++++ 3303/++++ 3313/++++ 3344/++++ 3344/++++ 3344/++++

Show in single page

SVID	Fq	CNR	Elevation	Azimuth
3	L1	31.8	18.00	39.00
4	L1	0.0	11.00	88.00
6	L1	42.2	53.00	316.00
11	L1	22.8	0.00	0.00
14	L1	29.9	47.00	167.00
17	L1	35.4	53.00	45.00
19	L1	44.0	49.00	354.00
20	L1	33.5	22.00	214.00
70	L1	27.5	15.00	41.00
71	L1	28.9	39.00	91.00
72	L1	0.0	28.00	150.00
75	L1	21.4	18.00	187.00
76	L1	25.2	48.00	248.00
77	L1	0.0	29.00	309.00
87	L1	30.0	23.00	307.00
7	L1	27.3	85.00	58.00
8	L1	20.8	70.00	256.00
9	L1	0.0	5.00	201.00
11	L1	0.0	10.00	291.00
12	L1	33.1	42.00	334.00
13	L1	22.4	0.00	0.00
16	L1	0.0	4.00	184.00
21	L1	22.6	38.00	164.00
22	L1	38.5	46.00	89.00
35	L1	37.7	25.00	69.00
44	L1	0.0	50.00	7.00
2	L1	35.4	51.00	300.00
4	L1	0.0	12.00	73.00
34	L1	12.4	24.00	271.00
36	L1	43.0	52.00	332.00
3	L1	22.0	46.00	156.00

36%

(Efficiency of GPS antenna): 36%

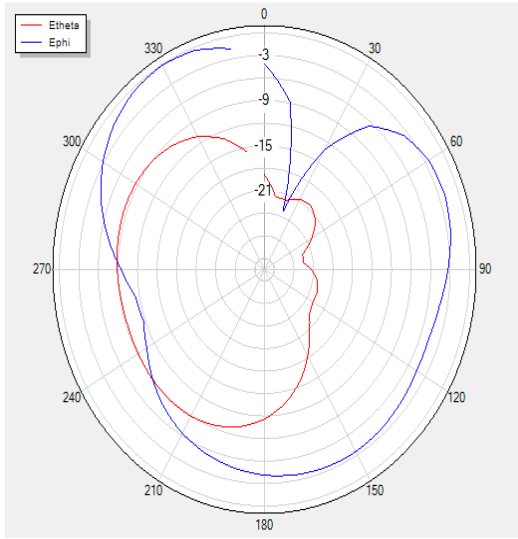
天线增益(Antenna gain)

Standard	Band	Frequency	Gain(dbi)
TDD_LTE	TDD_B34	2020	1.52
TDD_LTE	TDD_B38	2600	1.81
TDD_LTE	TDD_B39	1900	1.14
TDD_LTE	TDD_B40	2360	0.52
TDD_LTE	TDD_B41	2600	1.81
FDD_LTE	FDD_B1	1960	1.71
FDD_LTE	FDD_B2	1900	1.14
FDD_LTE	FDD_B3	1720	1.03
FDD_LTE	FDD_B4	1720	1.03
FDD_LTE	FDD_B5	820	-0.76
FDD_LTE	FDD_B7	2520	1.05
FDD_LTE	FDD_B8	900	-1.13
FDD_LTE	FDD_B12	711	-2.37
FDD_LTE	FDD_B13	782	-2.71
FDD_LTE	FDD_B17	711	-2.37
FDD_LTE	FDD_B18	820	-0.76
FDD_LTE	FDD_B19	820	-0.76
FDD_LTE	FDD_B20	820	-0.76
FDD_LTE	FDD_B25	1900	1.14
FDD_LTE	FDD_B26	820	-0.76
FDD_LTE	FDD_B28	711	-2.37
FDD_LTE	FDD_B66	1720	1.03
FDD_LTE	FDD_B71	693	-3.14
WCDMA	WCDMA_B1	1960	1.71
WCDMA	WCDMA_B2	1900	1.14
WCDMA	WCDMA_B4	1720	1.03

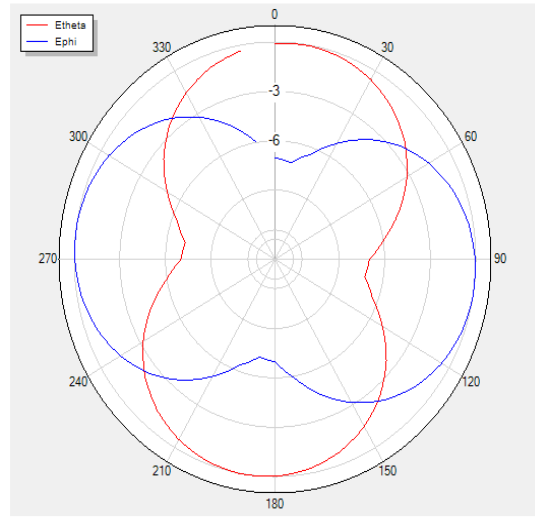
WCDMA	WCDMA_B5	820	-0.76
WCDMA	WCDMA_B8	900	-1.13
GSM	GSM850	820	-0.76
GSM	GSM900	900	-1.13
GSM	DCS1800	1720	1.03
GSM	PCS1900	1900	1.14
5GWIFI		5200	0.88
5GWIFI		5400	2.09
5GWIFI		5800	3.91
2.4GWIFI		2400	0.97
2.4GWIFI		2450	0.97
2.4GWIFI		2500	0.96
BT		2400	0.97
BT		2450	0.97
BT		2500	0.96
GPS		1575	-0.18

antenna PolarGraphs

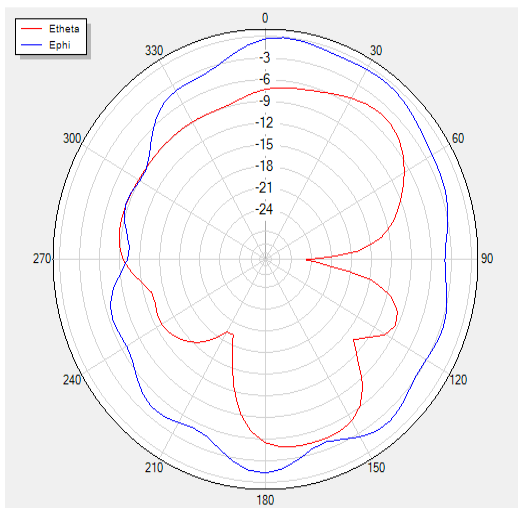
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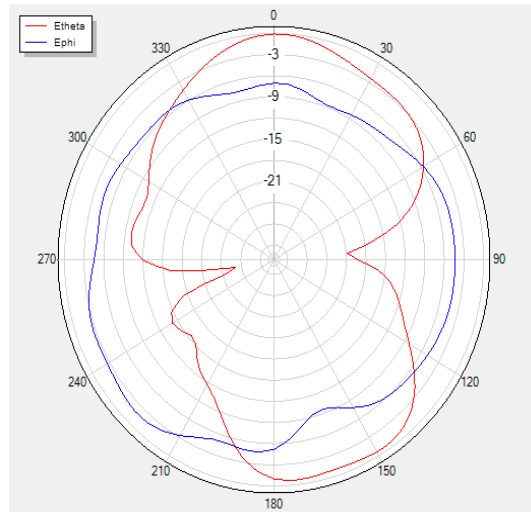
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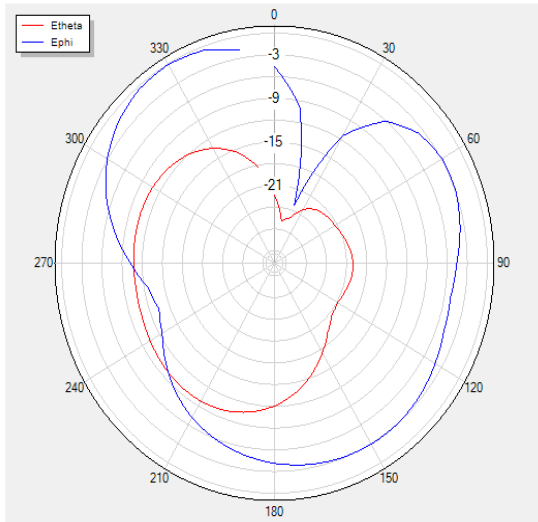
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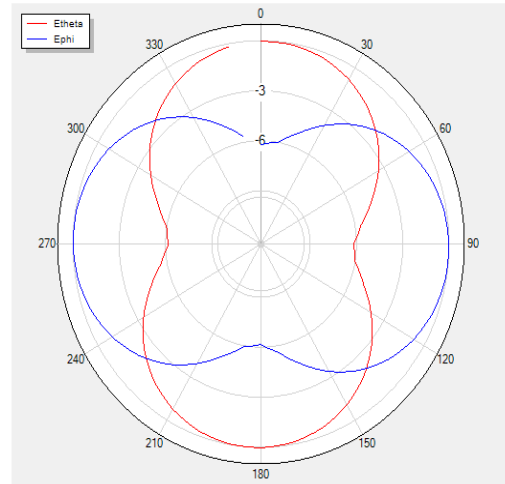
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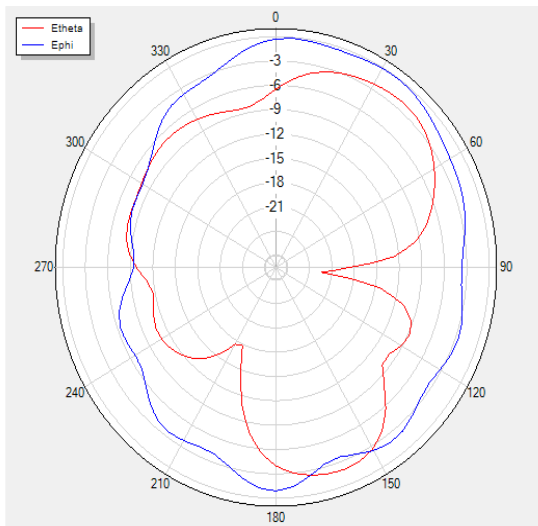
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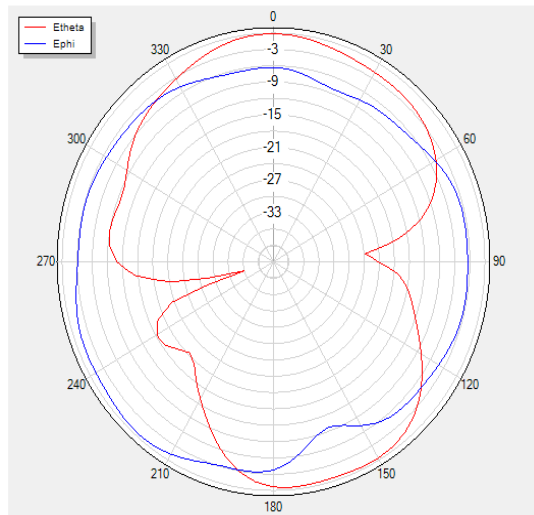
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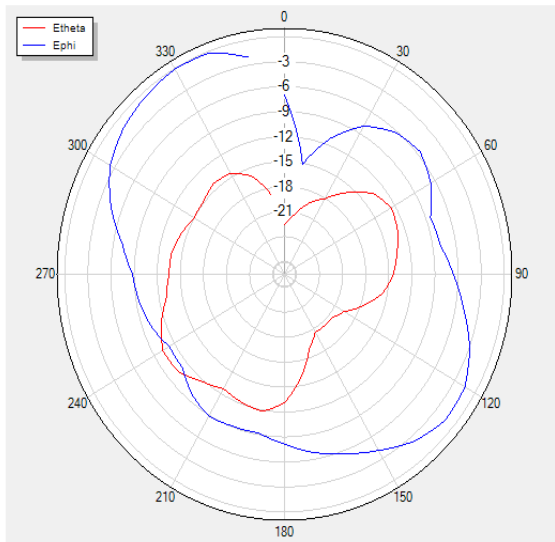
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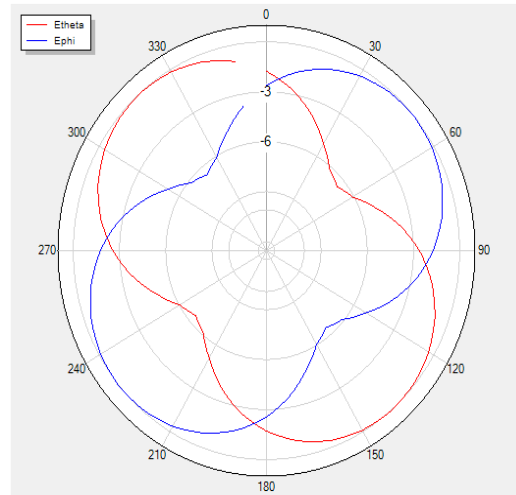
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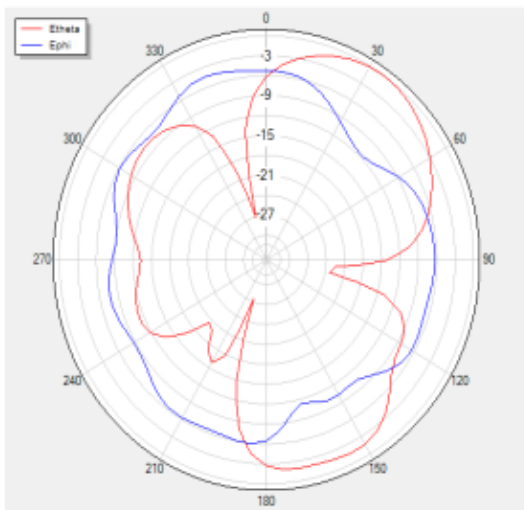
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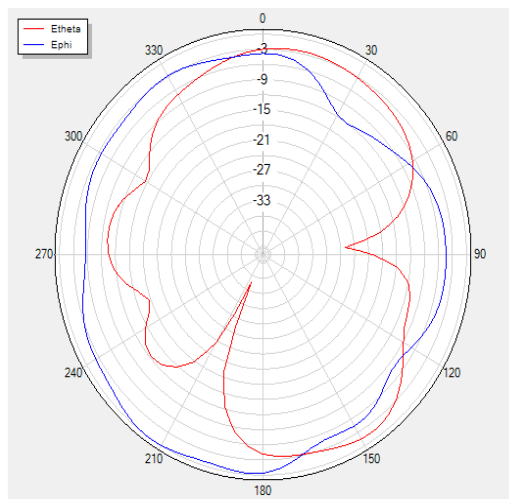
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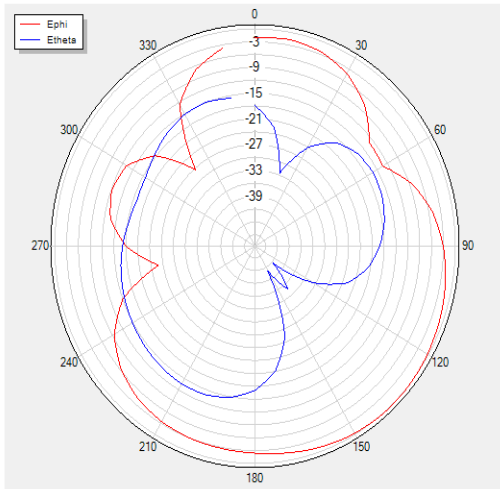
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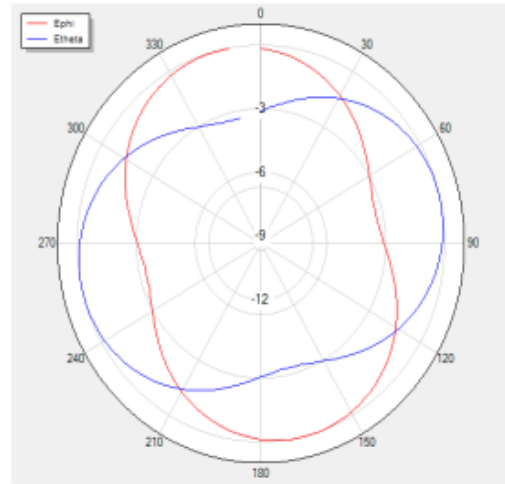
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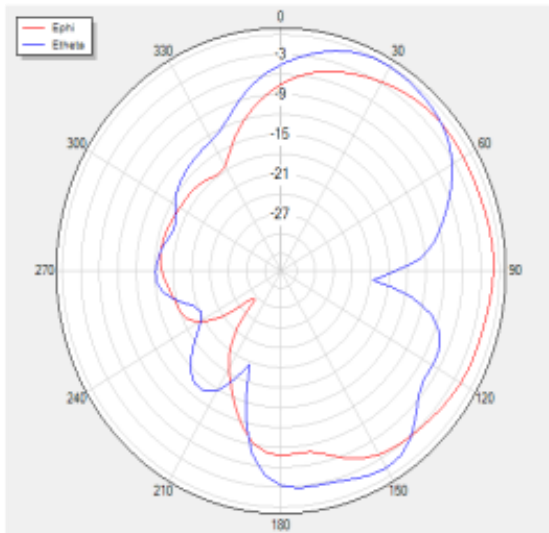
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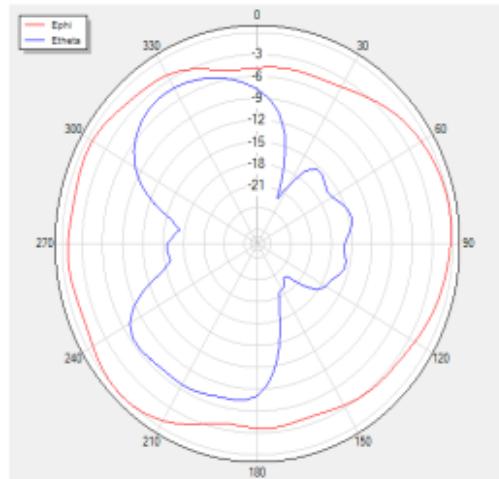
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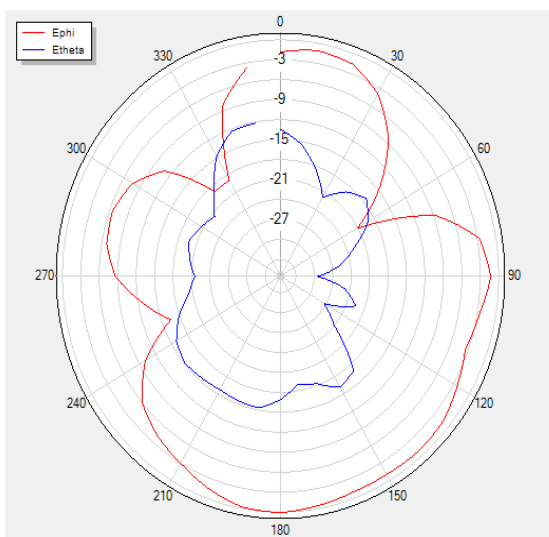
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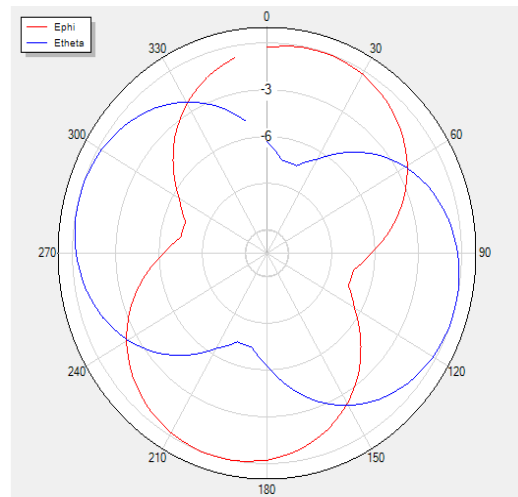
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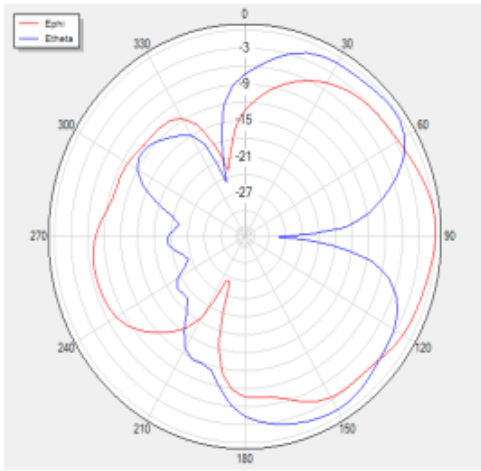
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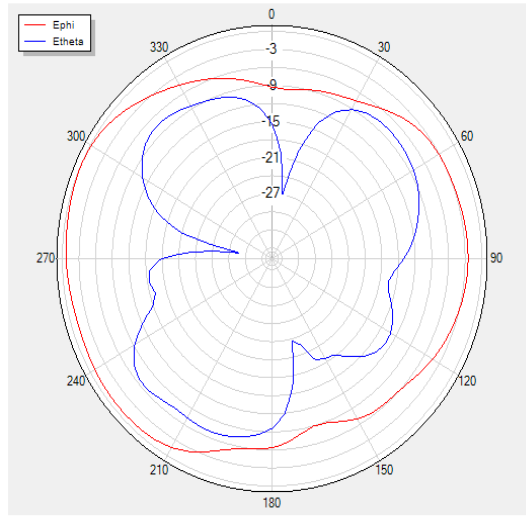
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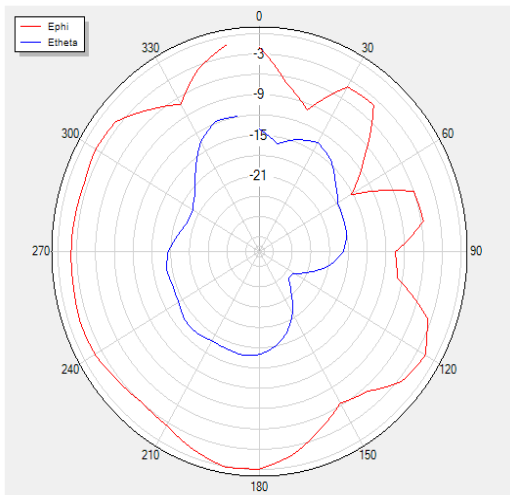
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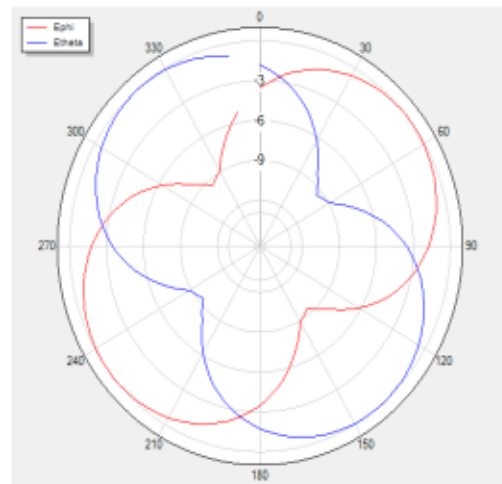
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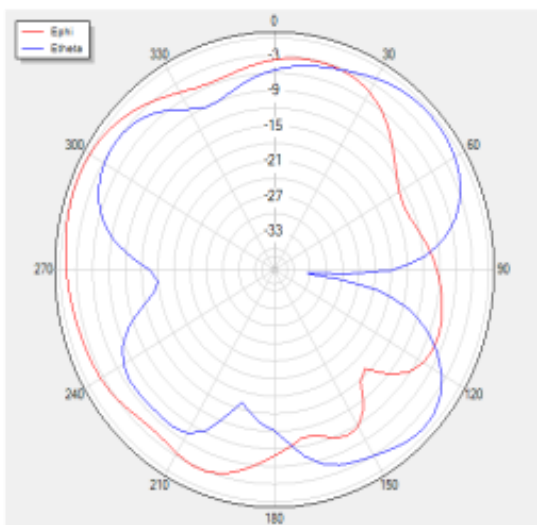
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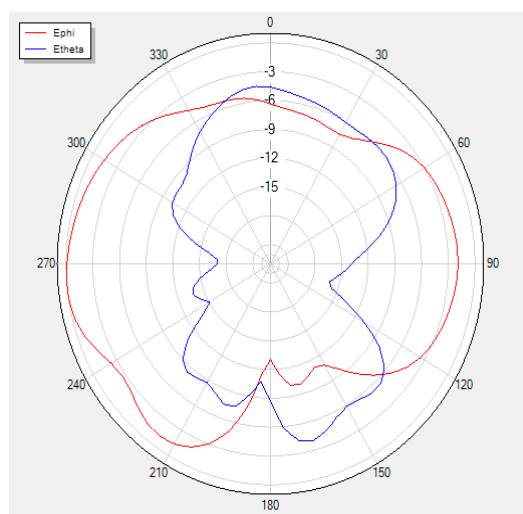
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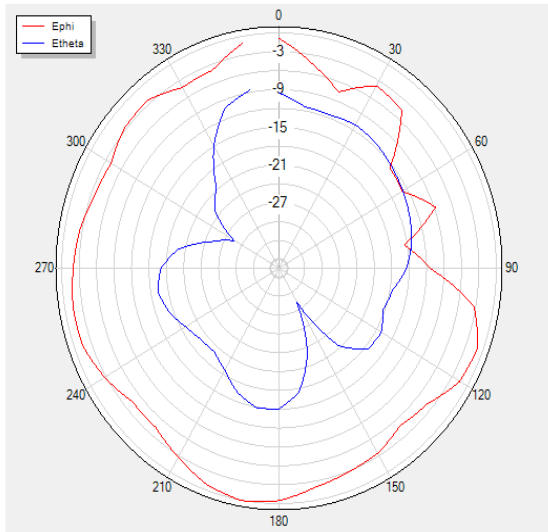
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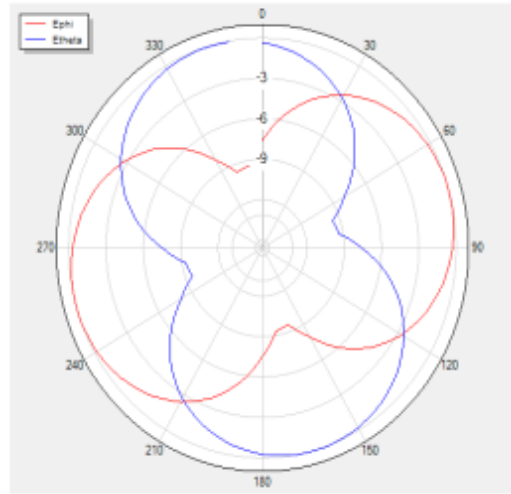
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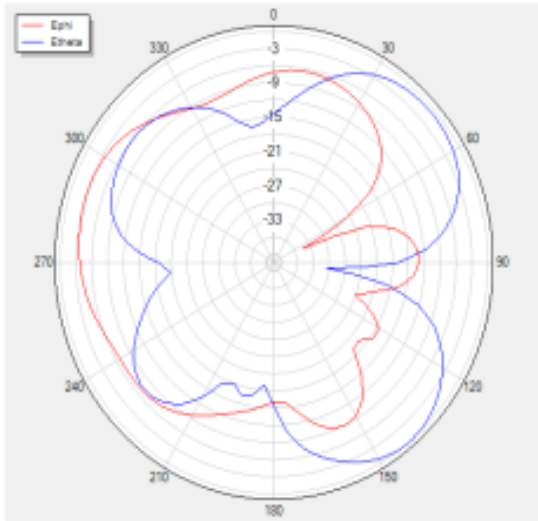
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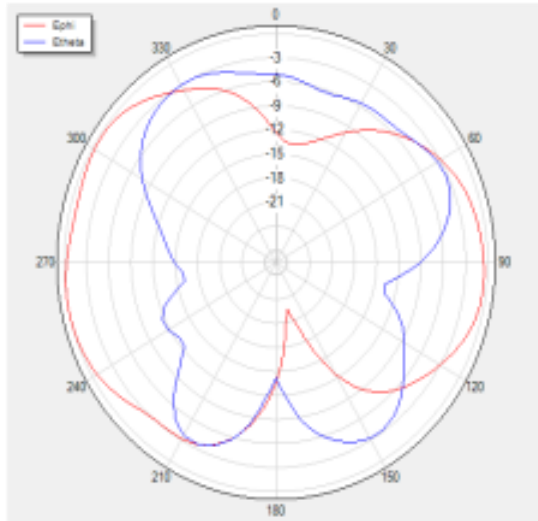
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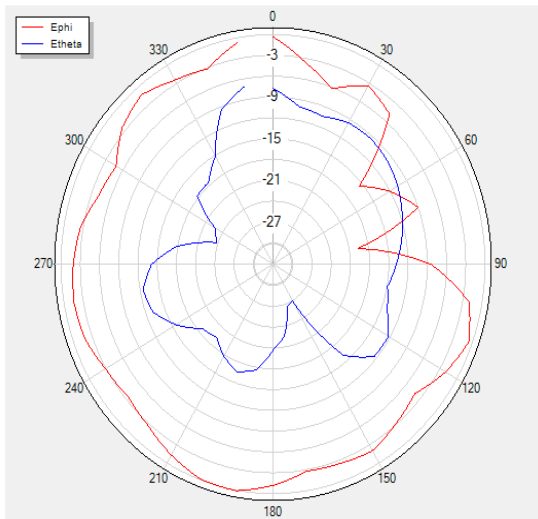
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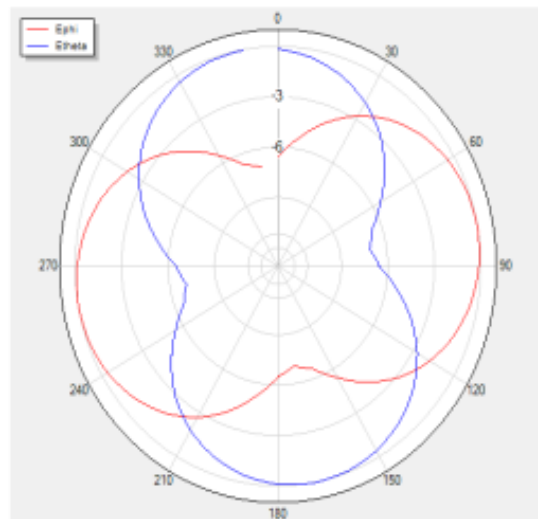
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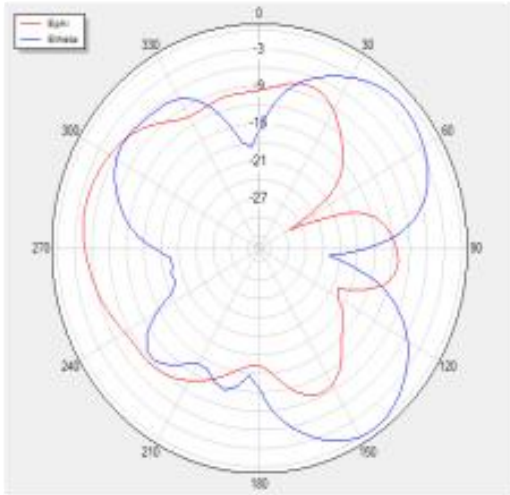
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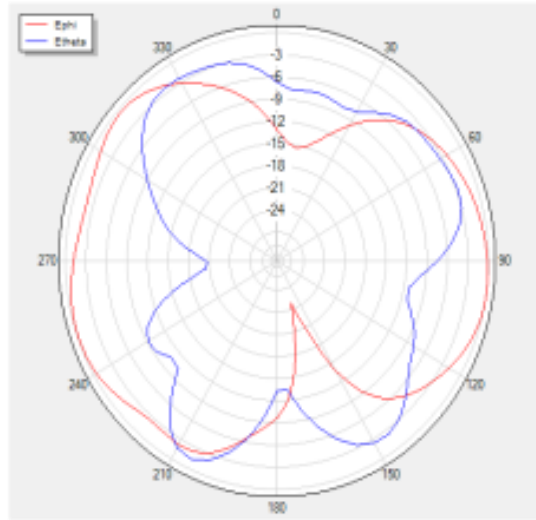
H Theta=0 freq=1960MHz



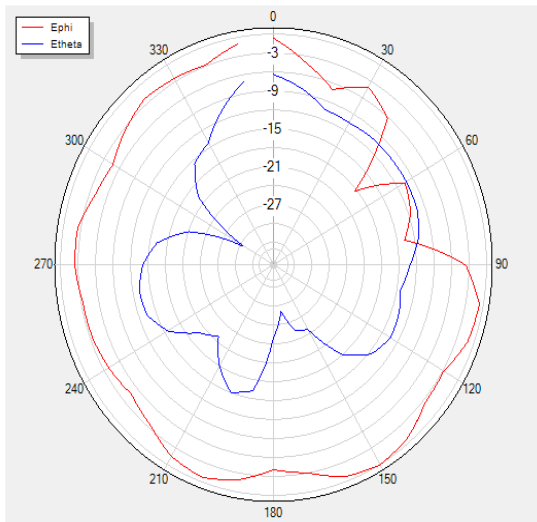
V Phi=90 freq=1960MHz



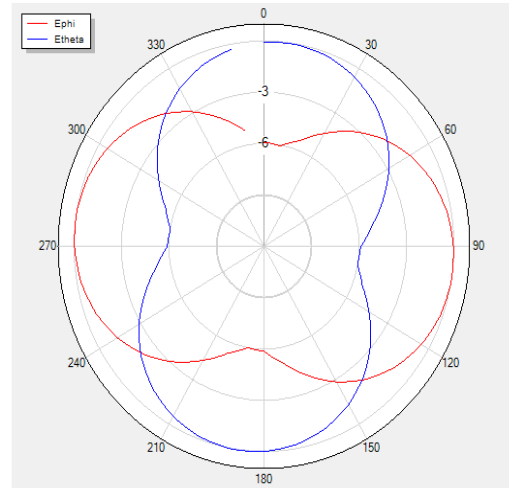
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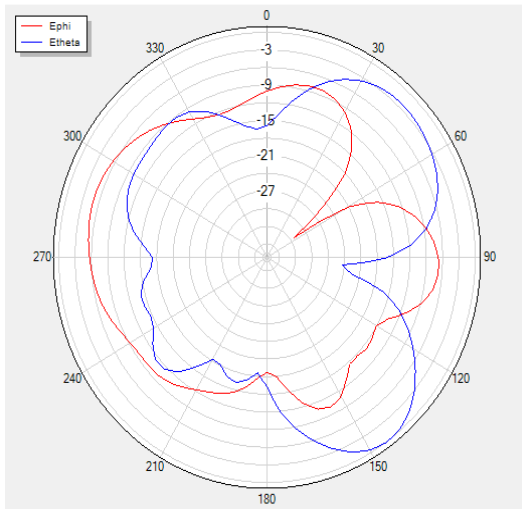
H Theta=90 freq=2020MHz



H Theta=0 freq=2020MHz



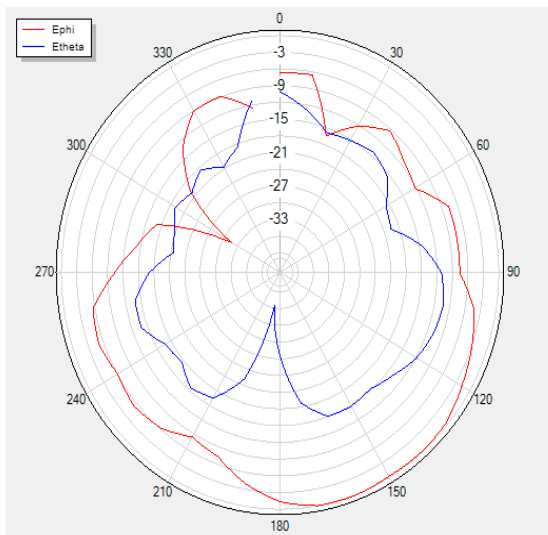
V Phi=90 freq=2020MHz



V Phi=0 freq=2020MHz



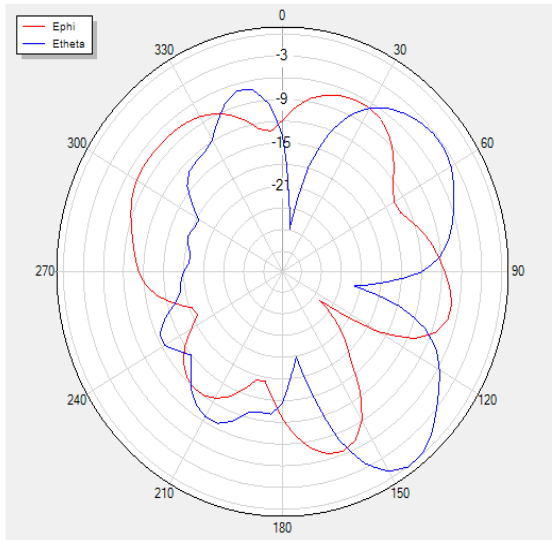
H Theta=90 freq=2360MHz



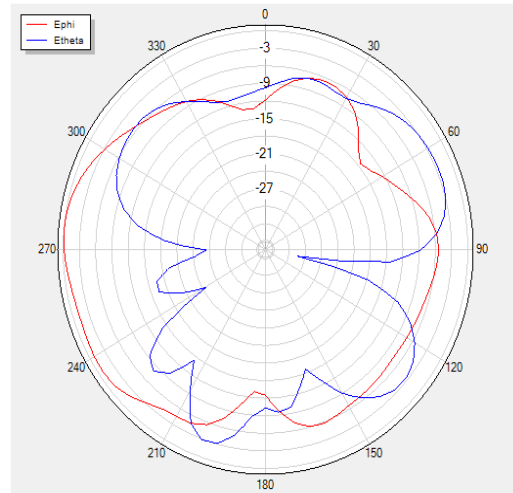
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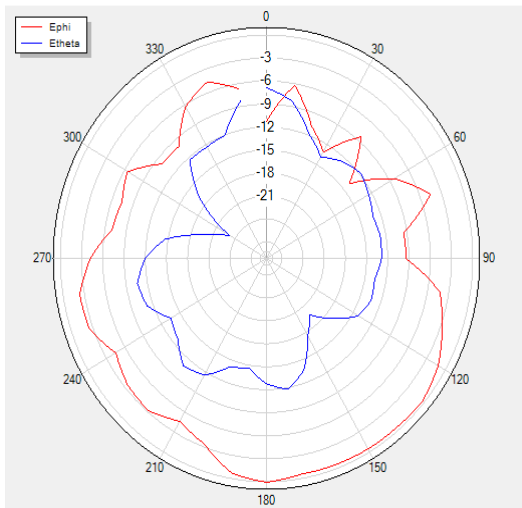
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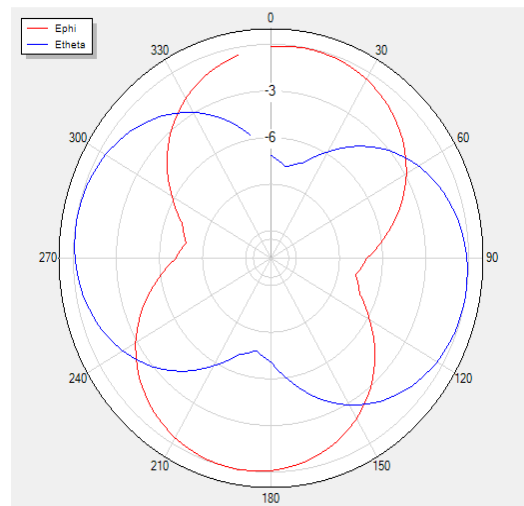
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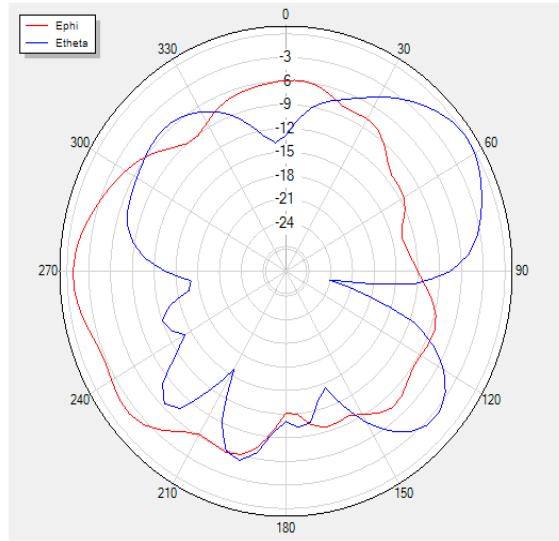
H Theta=90 freq=2520MHz



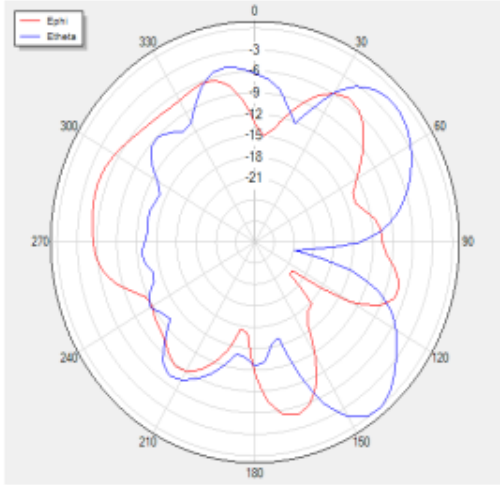
H Theta=0 freq=2520MHz



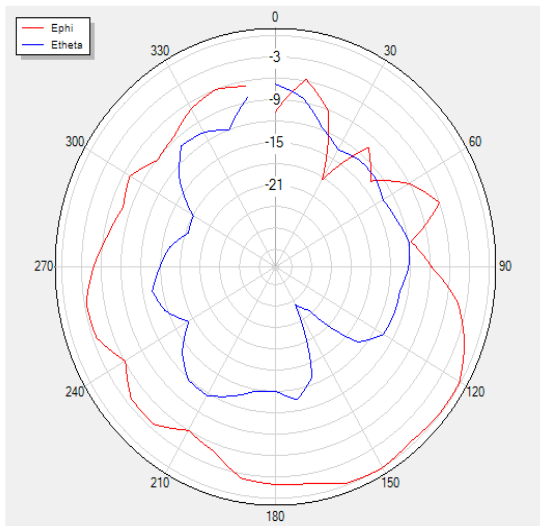
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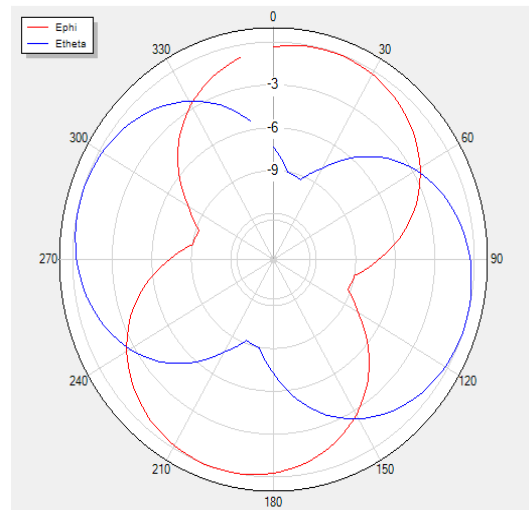
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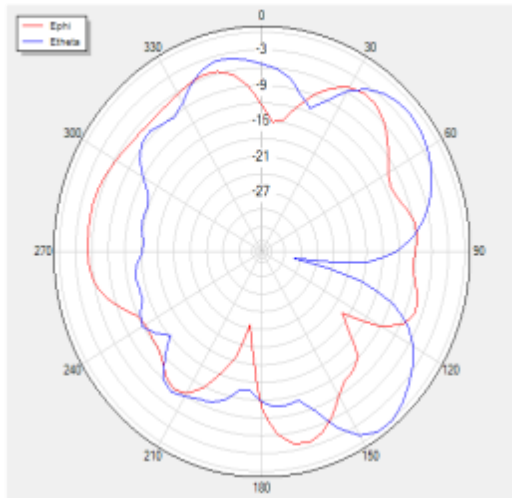
H Theta=90 freq=2600MHz



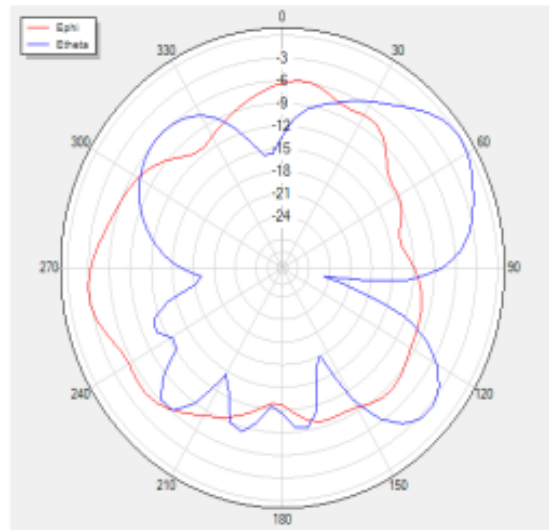
H Theta=0 freq=2600MHz



V Phi=90 freq=2600MHz

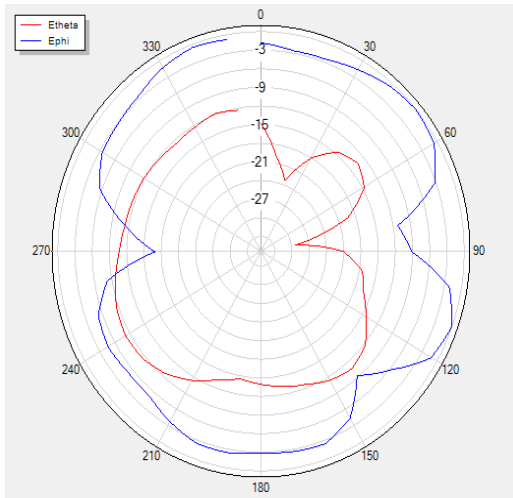


V Phi=0 freq=2600MHz

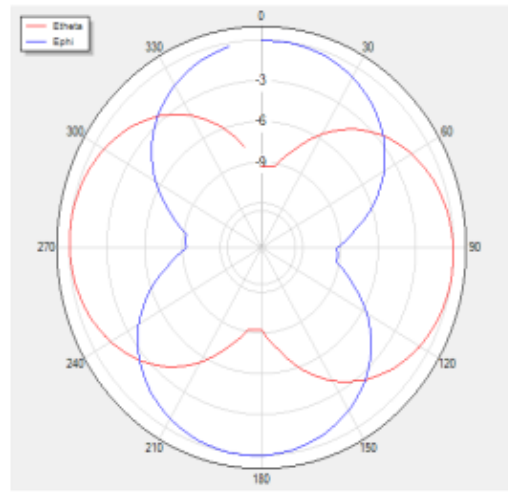


(GPS antenna) + (2.4G/5G WIFI/BT antenna) PolarGraphs

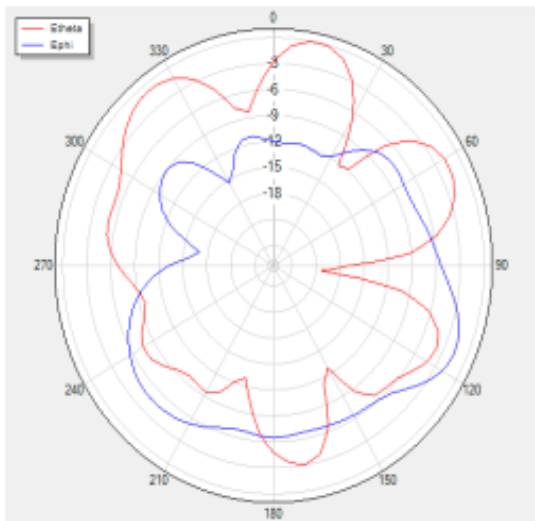
H Theta=90 freq=1575MHz



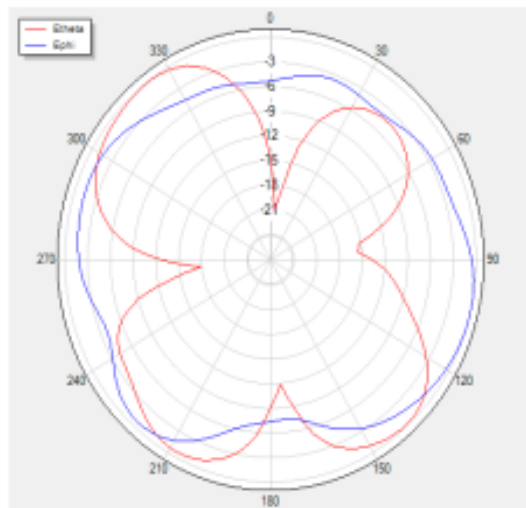
H Theta=0 freq=1575MHz



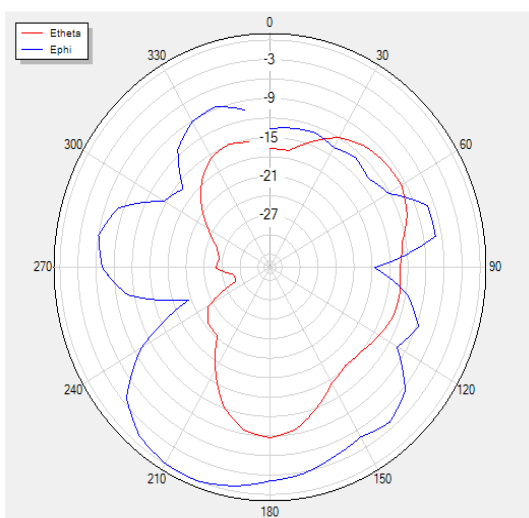
V Phi=90 freq=1575MHz



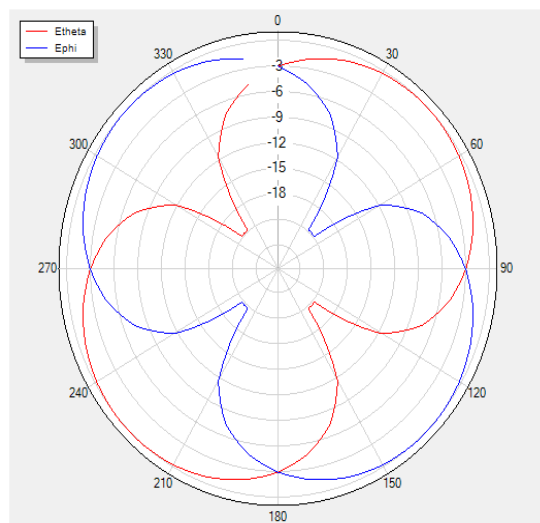
V Phi=0 freq=1575MHz



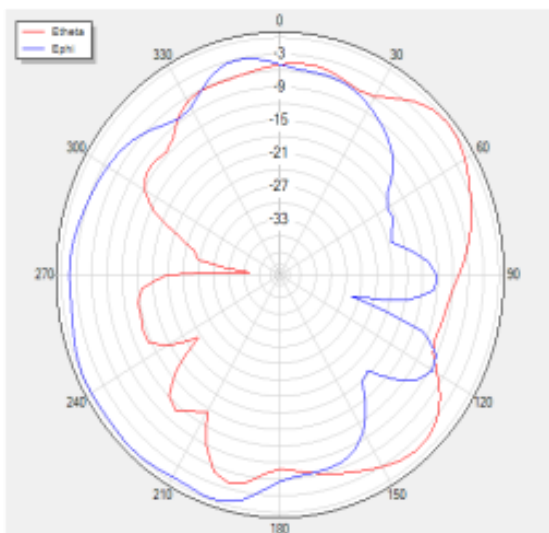
H Theta=90 freq=2400MHz



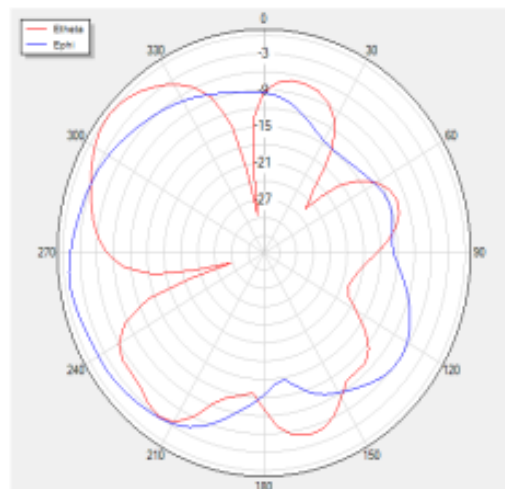
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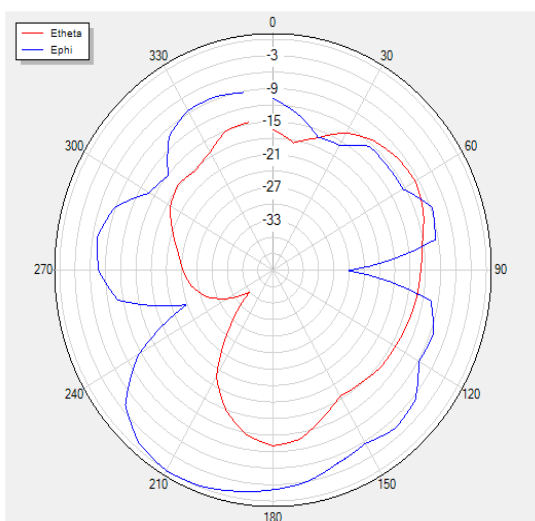
V Phi=90 freq=2400MHz



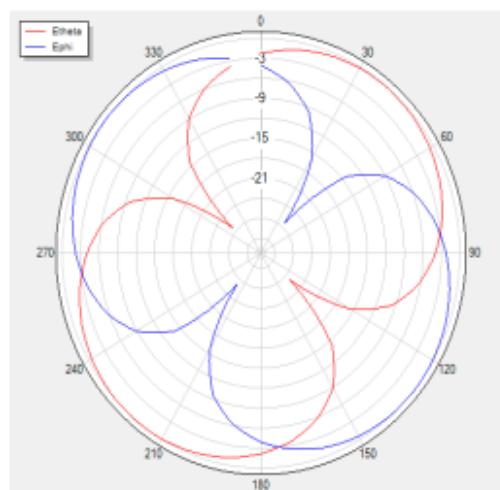
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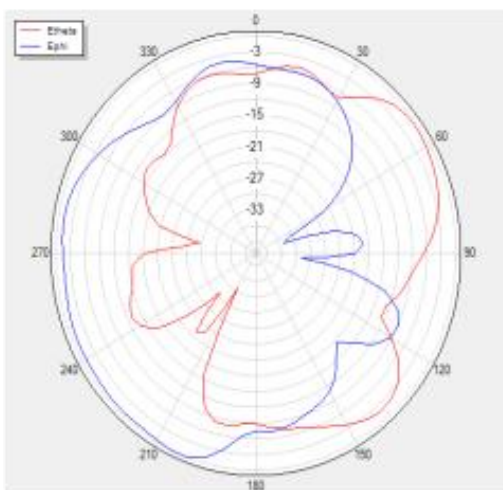
H Theta=90 freq=2450MHz



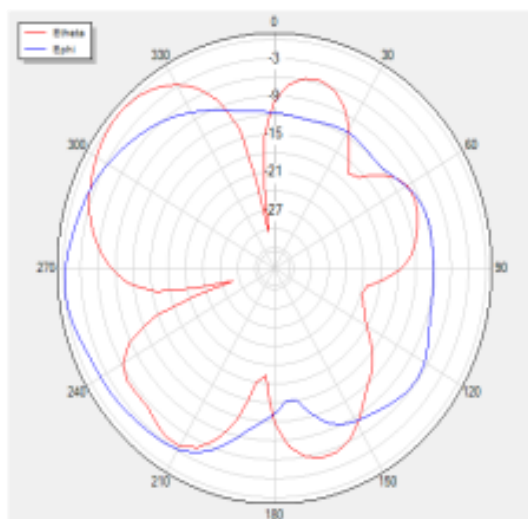
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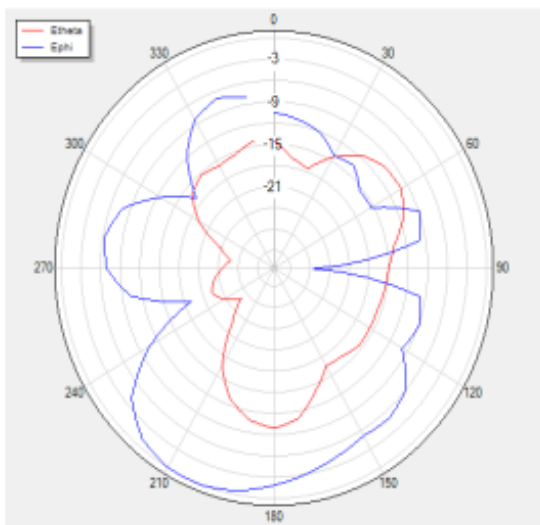
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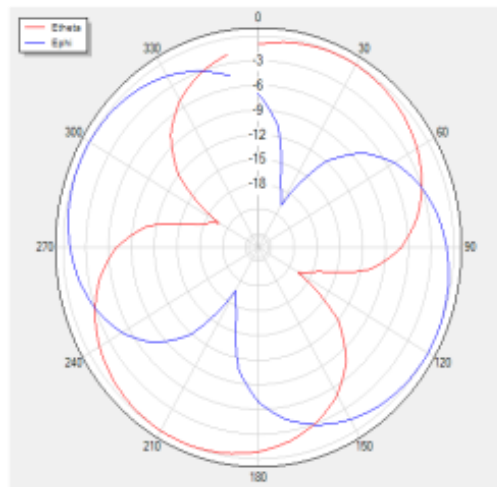
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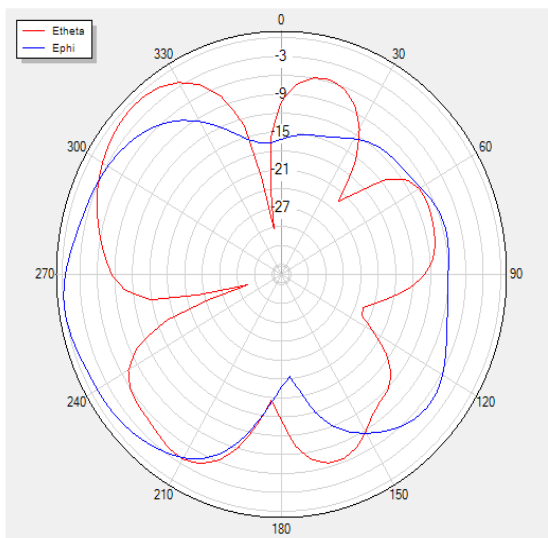
H Theta=90 freq=2500MHz



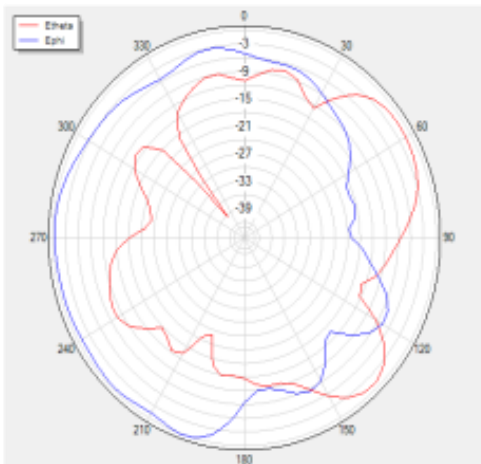
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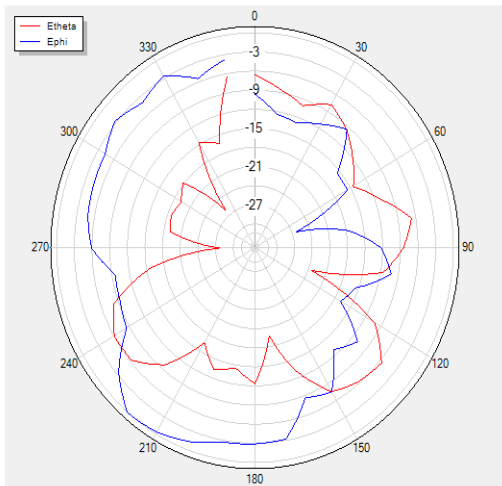
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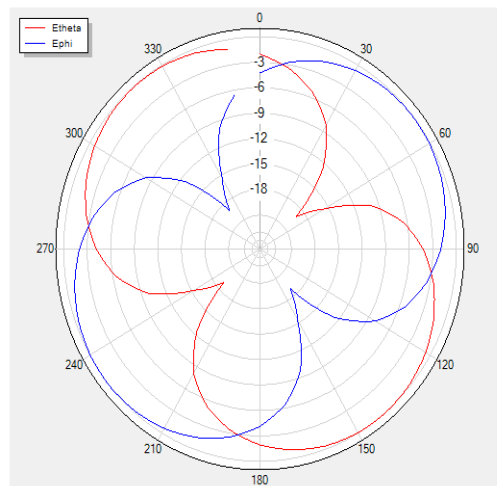
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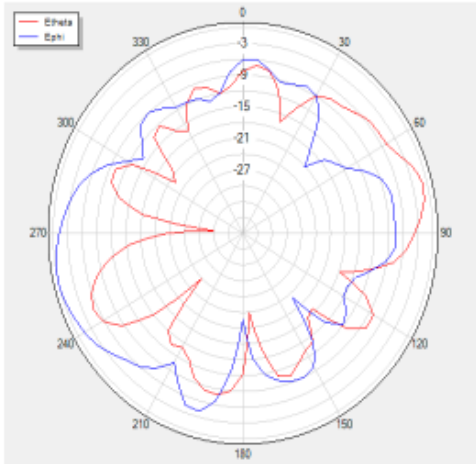
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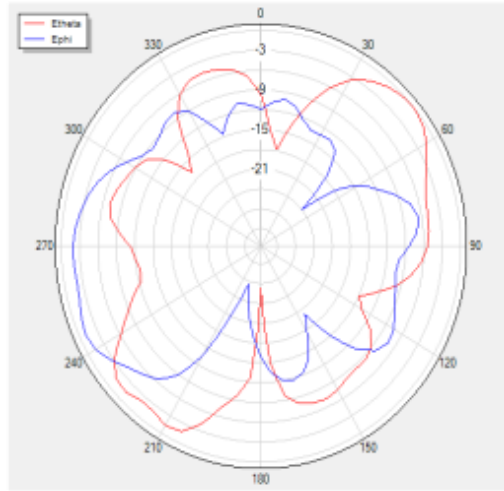
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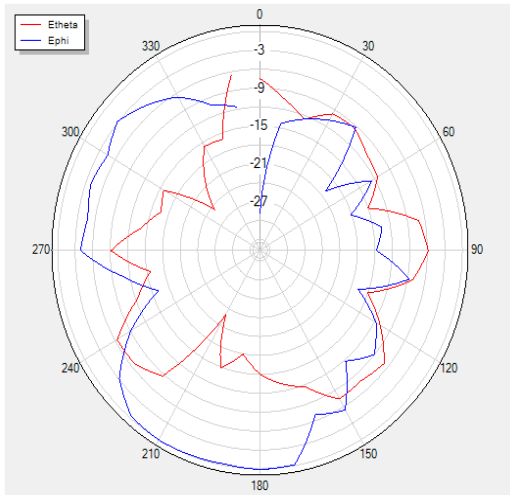
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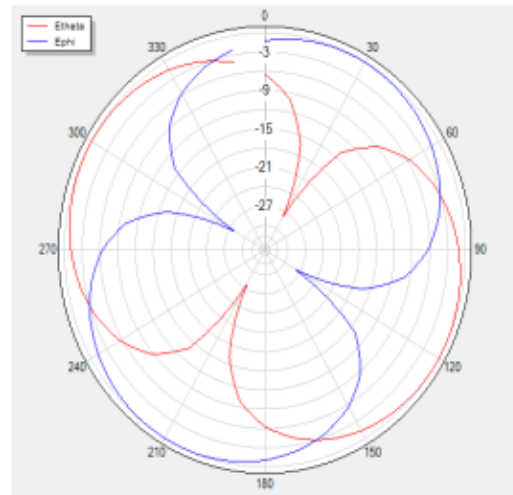
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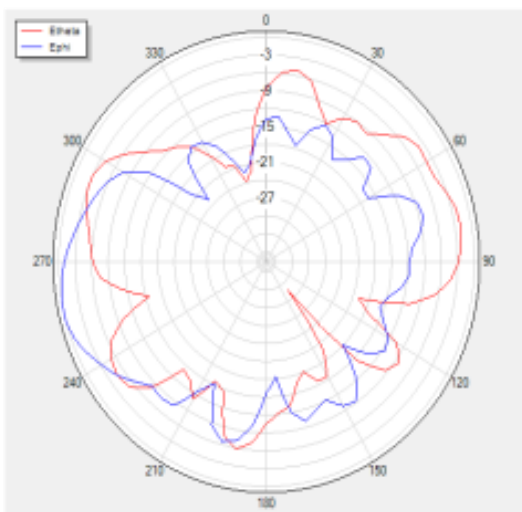
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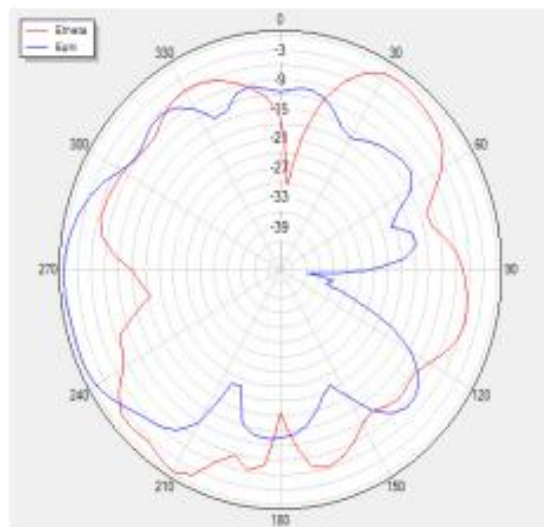
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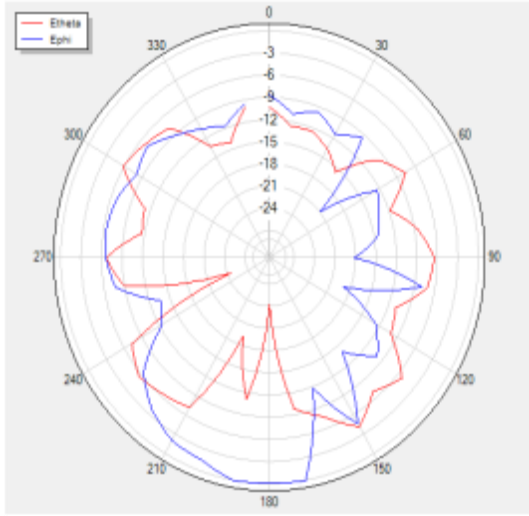
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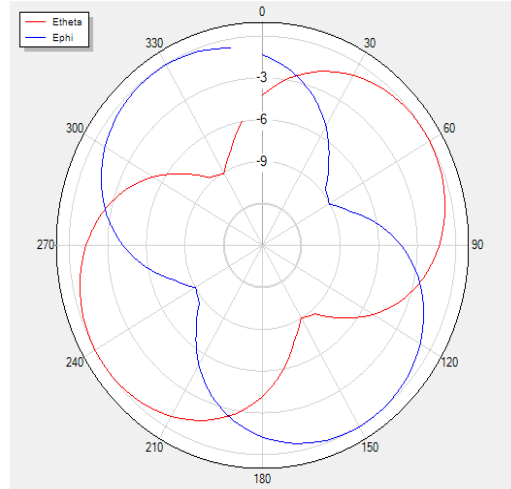
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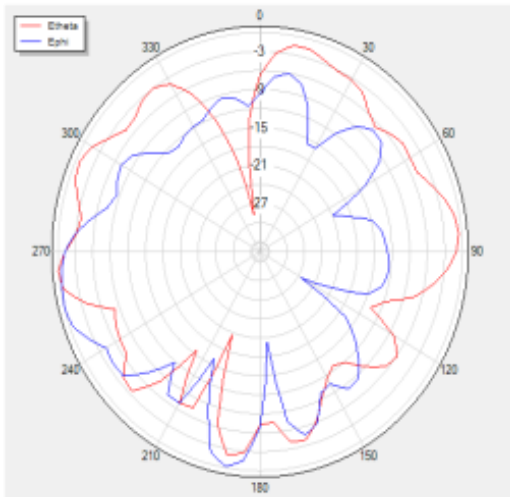
H Theta=90 freq=5800MHz



H Theta=0 freq=5800MHz



V Phi=90 freq=5800MHz



V Phi=0 freq=5800MHz

