

ANWEI commnuication Equipment Co.,Ltd

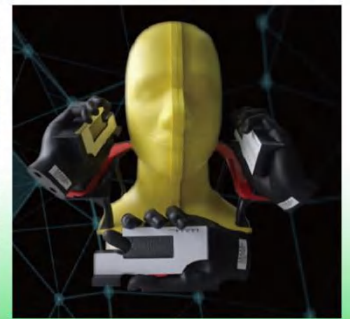
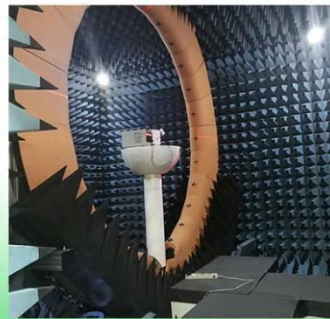
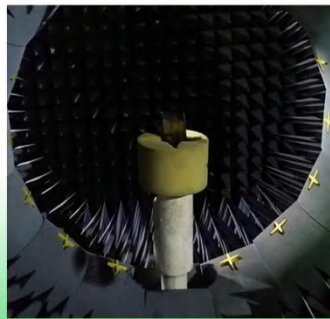
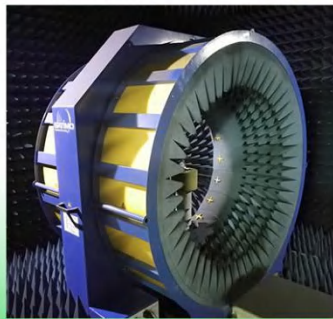
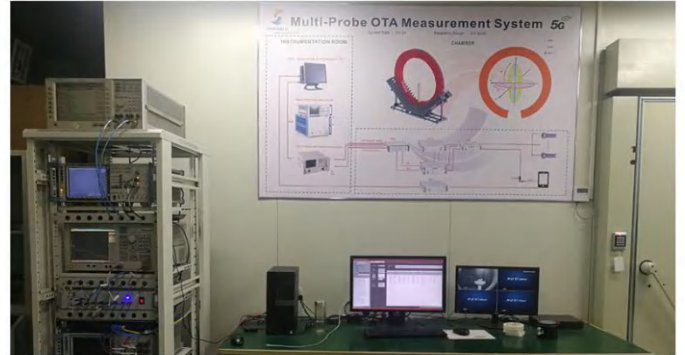
APPROVAL SHEET

Customer	Youmi	Specs	C69M PRO
Part Number		Frequency Band	2G:GSM850/900/1800/1900 3G:WCDMA-B2/4/5 4G:LTE-B2/4/5/7/12/17/25/26/28A/28B/66/71
Color	Black	Edition	REV:A0
Salesperson	Mr.Xie	Design	Zong Zhi Hui
Structure	Qin Yun Lin	Confirm	
Date	2025/02/15	Signing Date	

Customer confirmation:

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

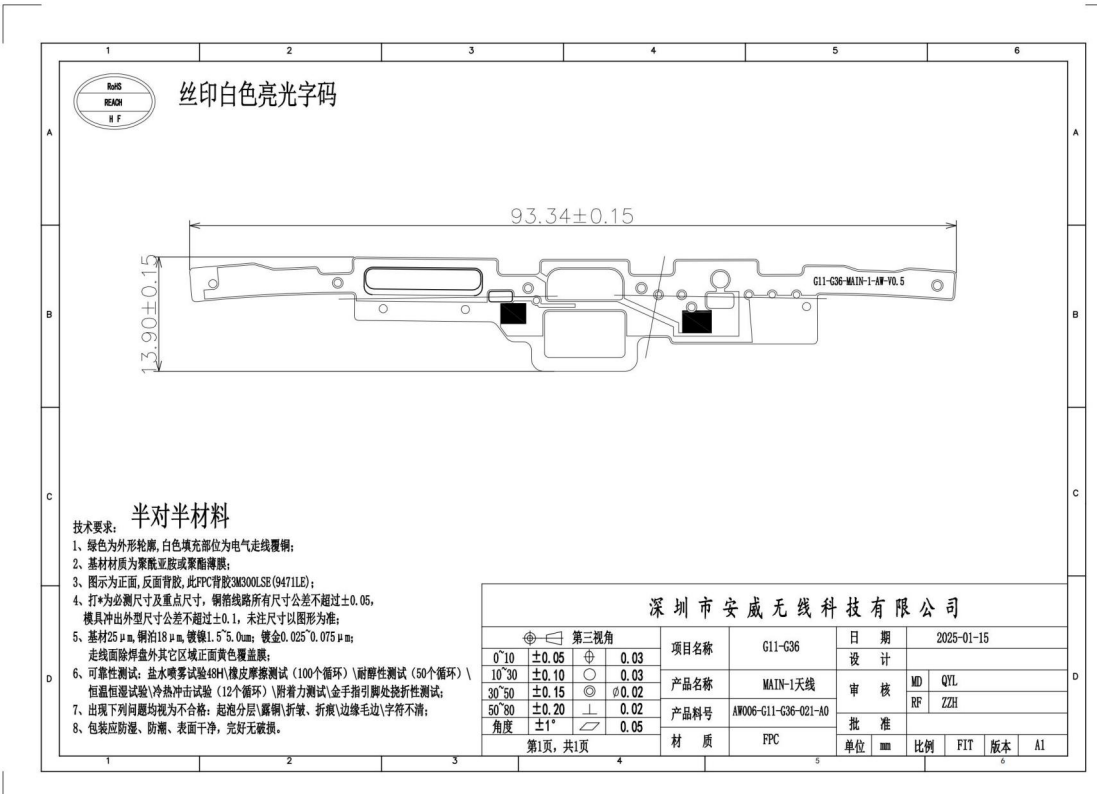
Project development environment



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

(MIMO antenna 0)



Working frequency band): 600MHZ~960MHZ (TRX)

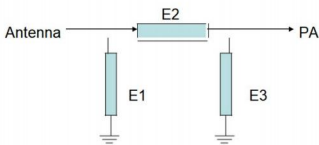
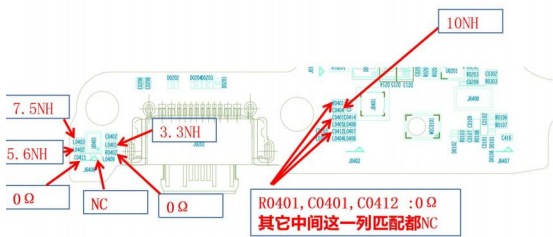
2G:GSM850/900

3G:WCDMA-B5

4G:LTE-B5/12/17/26/28A/28B/71

(Matcheing network):

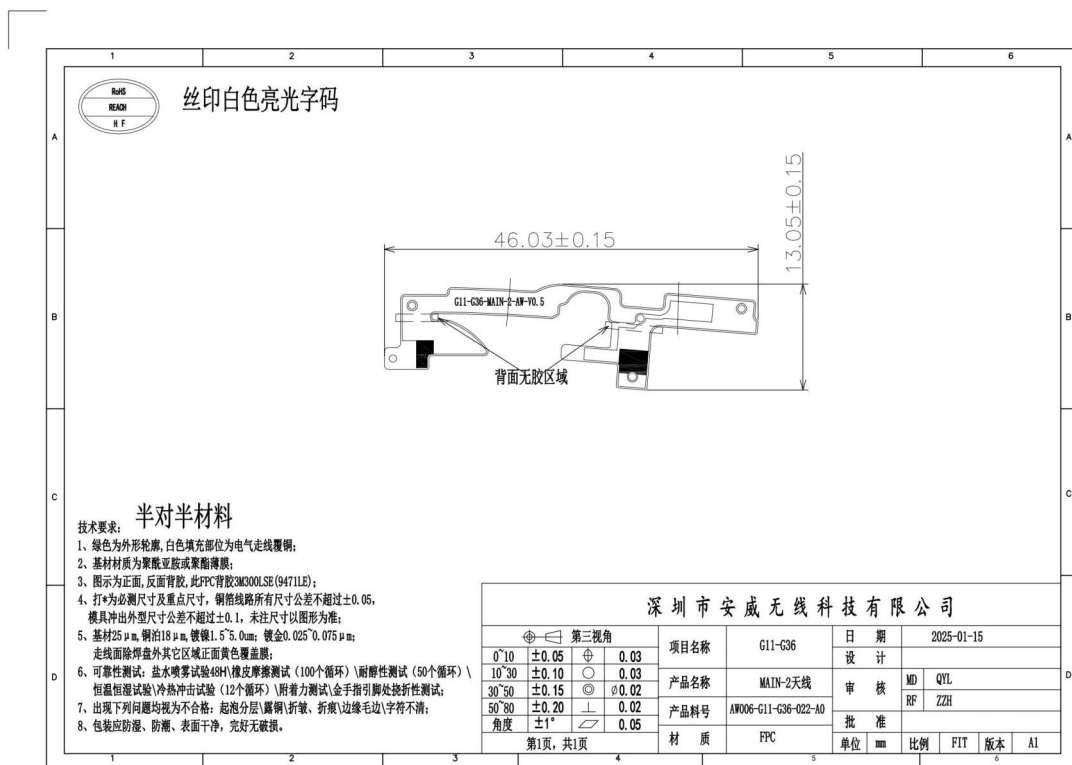
主天线匹配电路



Element	Value
E1	10NH
E2	0 Ω
E3	NC

天线开关协议: 2025-02-15 V1版
 RF1:GSM850/900+WCDMA-B5+LTE-B5/26
 RF2:NC
 RF3:LTE-B12/17/28A/28B
 RF4:LTE-B71
 分集: DCS1800/PCS1900+WCDMA-B2/4+LTE-B2/4/25/66

(MIMO antenna 1)



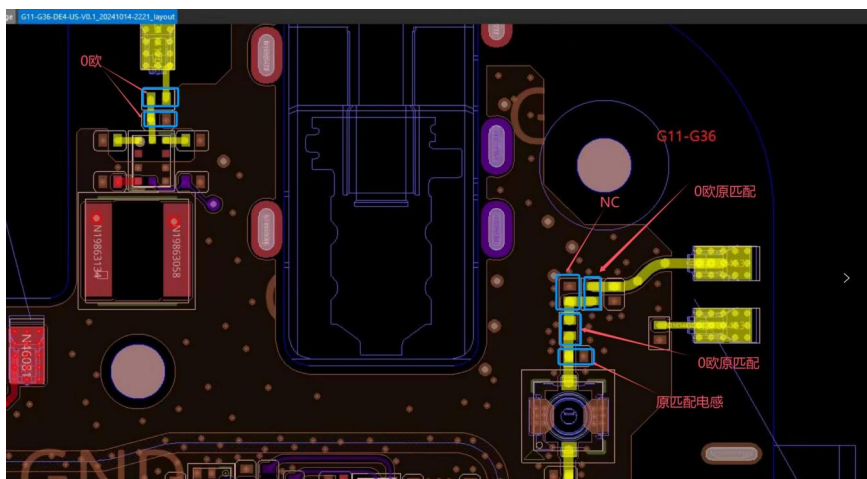
(Working frequency band): 1710~2690MHZ (TRX)

2G:GSM1800/1900

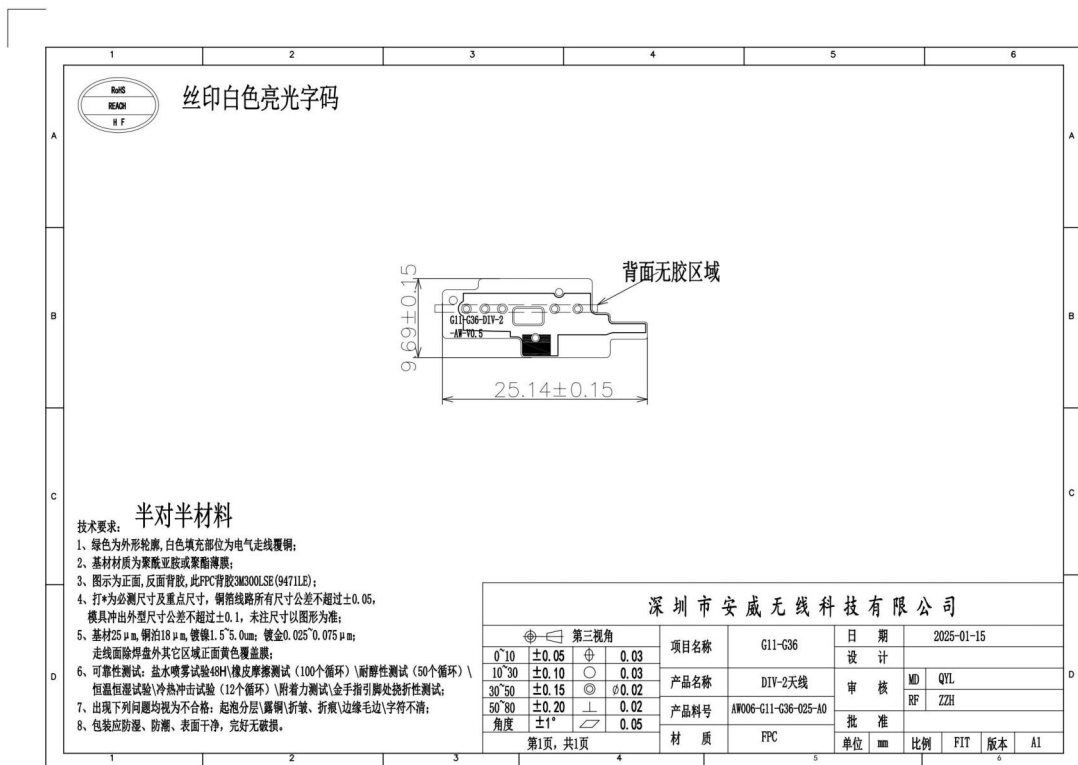
3G:WCDMA-B2/4

4G:LTE-B2/4/7/25/66

(Matcheing network):



(MIMO antenna 2)



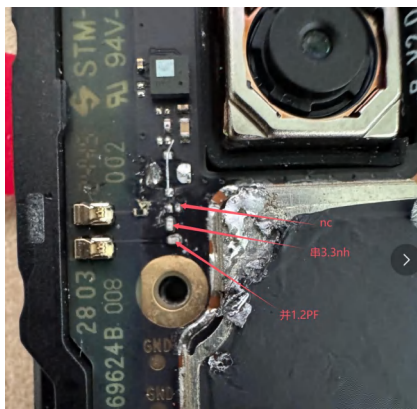
(Working frequency band): 1710~2690MHZ (RX)

2G:GSM1800/1900

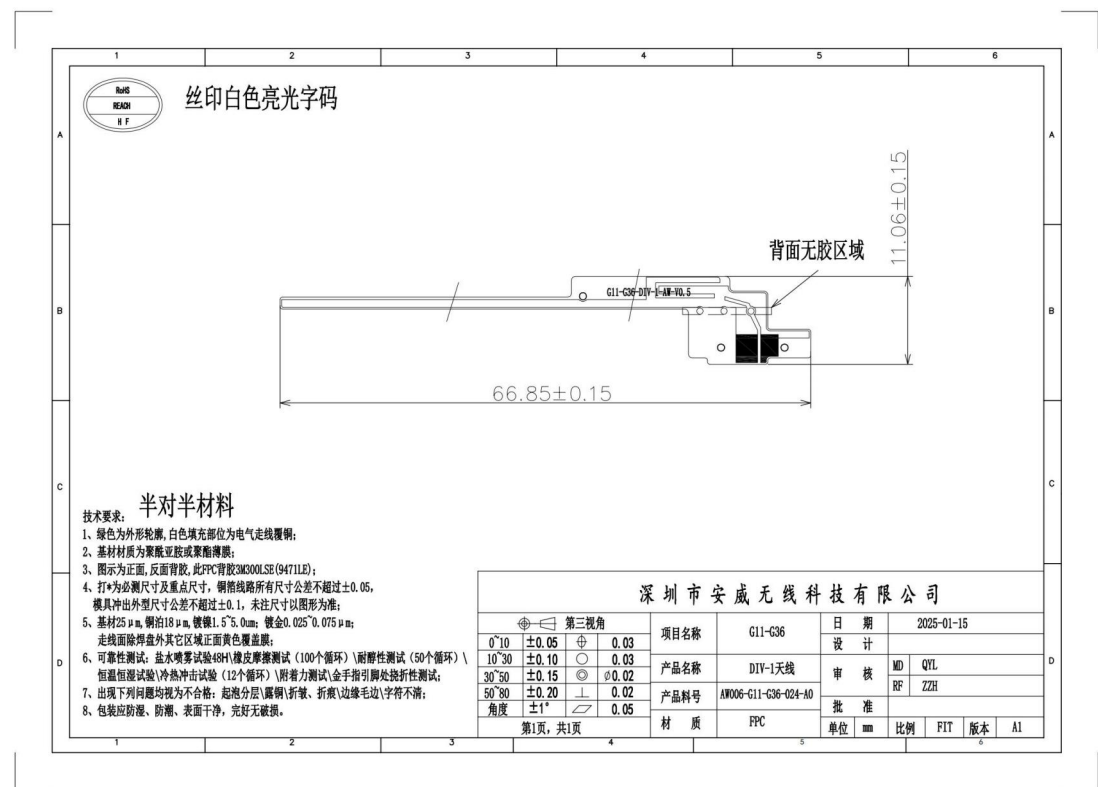
3G:WCDMA-B2/4

4G:LTE-B2/4/7/25/66

(Matcheing network):



(MIMO antenna 3)



(Working frequency band): 600MHZ~960MHZ (RX)

2G:GSM850/900

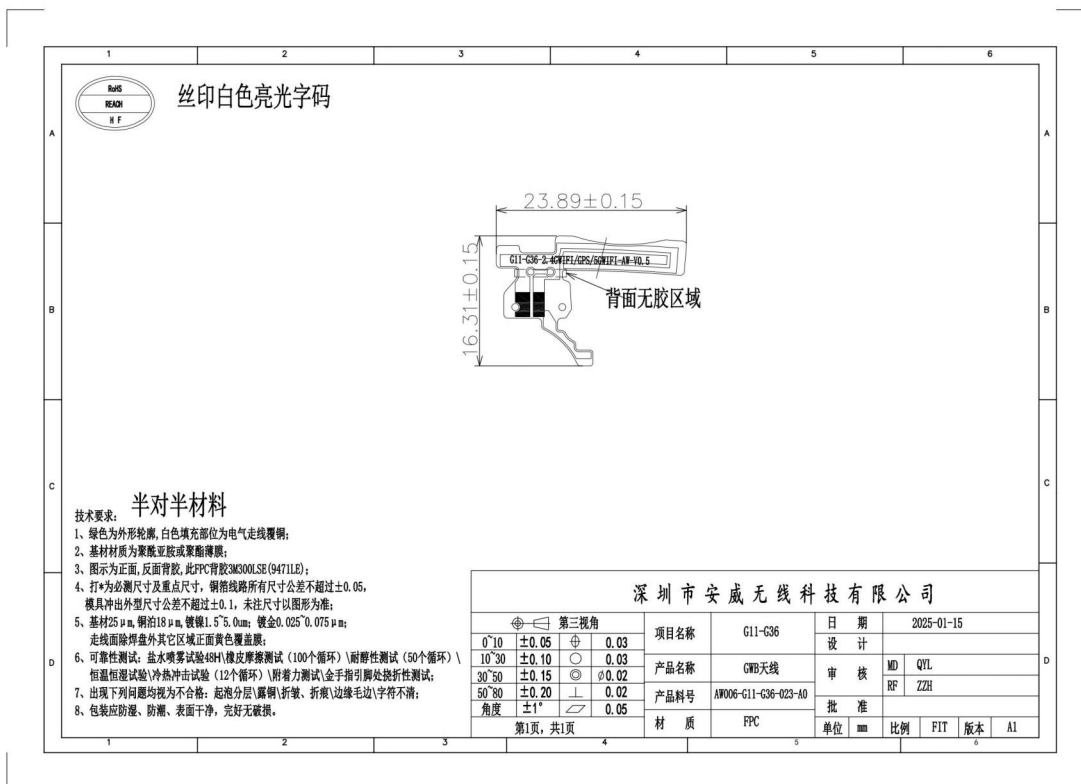
3G:WCDMA-B5

4G:LTE-B5/12/17/26/28A/28B/71

(Matcheing network):



(GPS L1 antenna) + (2.4G/5G WIFI/BT antenna)

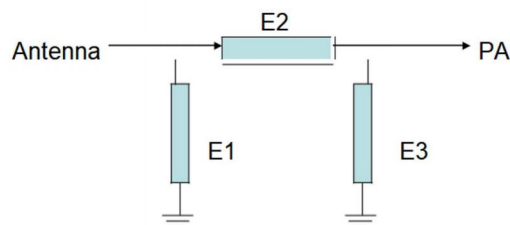


(Working frequency band of GPS antenna) : 1575.42MHZ

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

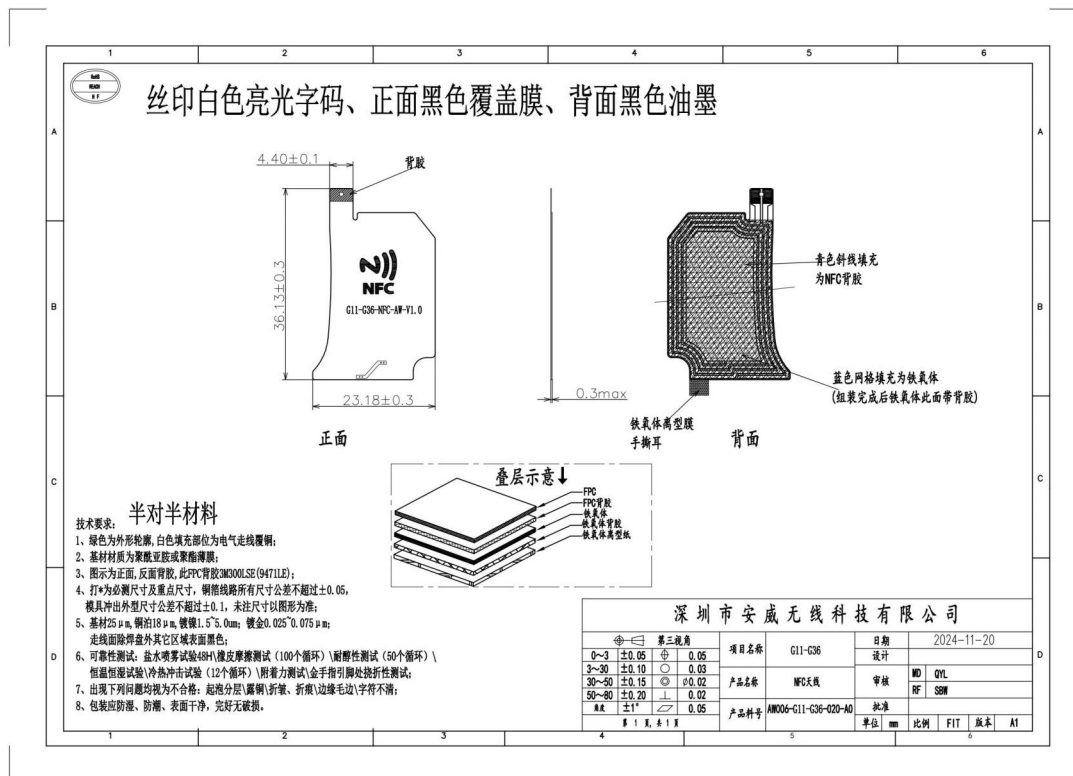
(Matcheing network)

GPS/WIFI/BT天线匹配电路



Element	Value
E1	NC
E2	0Ω
E3	原匹配
E4	NC

(NFC antenna)



ANWEI ANT TRP&TIS parameter Summary of C69M PRO

BAND	Channel	TRP (dBm)	TIS (dBm)
FDD B2	L	19.08	
	M	18.86	
	H	18.54	-93.14
FDD B4	L	19.50	
	M	17.90	
	H	17.92	-90.63
FDD B5	L	16.46	
	M	16.30	
	H	15.93	-87.99
FDD B7	L	16.92	
	M	15.83	
	H	15.54	-87.31
FDD B12	L	14.34	
	M	14.24	
	H	14.48	-91.72
FDD B17	L	14.24	
	M	15.34	
	H	15.45	-92.24
FDD B25	L	15.09	
	M	17.62	
	H	17.55	-92.84
FDD B26	L	15.05	
	M	15.18	
	H	15.57	-89.57
FDD B28A	L	16.31	
	M	16.48	
	H	16.20	-91.88
FDD B28B	L	16.77	
	M	16.62	

	H	15.97	-90.97
FDD B66	L	17.32	
	M	17.30	
	H	17.18	-88.20
FDD B71	L	14.62	
	M	14.43	
	H	14.88	-91.69
WCDMA-B2	L	18.30	
	M	18.55	
	H	18.02	-104.48
WCDMA-B4	L	17.59	
	M	17.32	
	H	17.07	-104.05
WCDMA-B5	L	14.70	
	M	16.01	
	H	16.65	-103.09

	Channel	TRP (dBm)	TIS (dBm)
GSM850	L	25.60	
	M	26.13	
	H	25.66	-101.50
GSM900	L	19.93	
	M	18.95	
	H	19.10	-98.68
DCS1800	L	26.19	
	M	25.54	
	H	25.89	-103.31
PCS1900	L	25.65	
	M	25.10	
	H	24.63	-105.05

2.4G WIFI B 模 11M	L	12.49	-81.25
	M	11.79	-81.62
	H	12.92	-81.86
5 G WIFI A 模 54M	L	10.59	-72.22
	M	9.84	-73.54
	H	9.92	-70.81

(GPS Test)



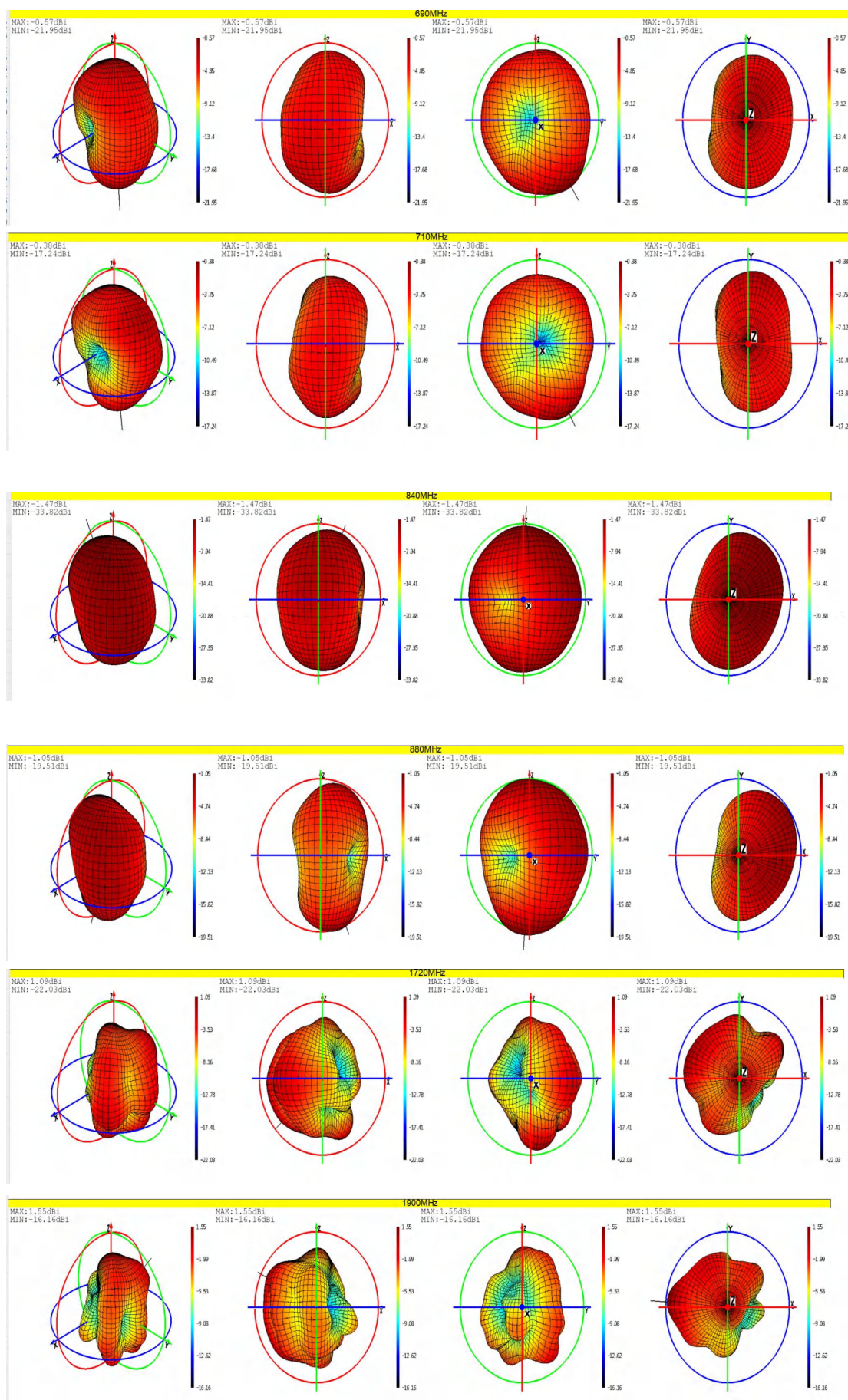
	L1	23.4	0.00	0.00
3	L1	24.7	41.00	70.00
6	L1	35.0	39.00	248.00
14	L1	37.6	85.00	356.00
17	L1	32.2	47.00	349.00
19	L1	33.2	32.00	312.00
22	L1	40.8	61.00	332.00
79	L1	35.7	76.00	231.00
80	L1	31.2	34.00	326.00
81	L1	34.9	35.00	9.00
83	L1	25.6	0.00	0.00
1	L1	27.2	0.00	0.00
2	L1	23.1	0.00	0.00
4	L1	30.4	0.00	0.00
5	L1	27.6	0.00	0.00
7	L1	34.7	63.00	2.00

(Efficiency of GPS antenna): 33.38%

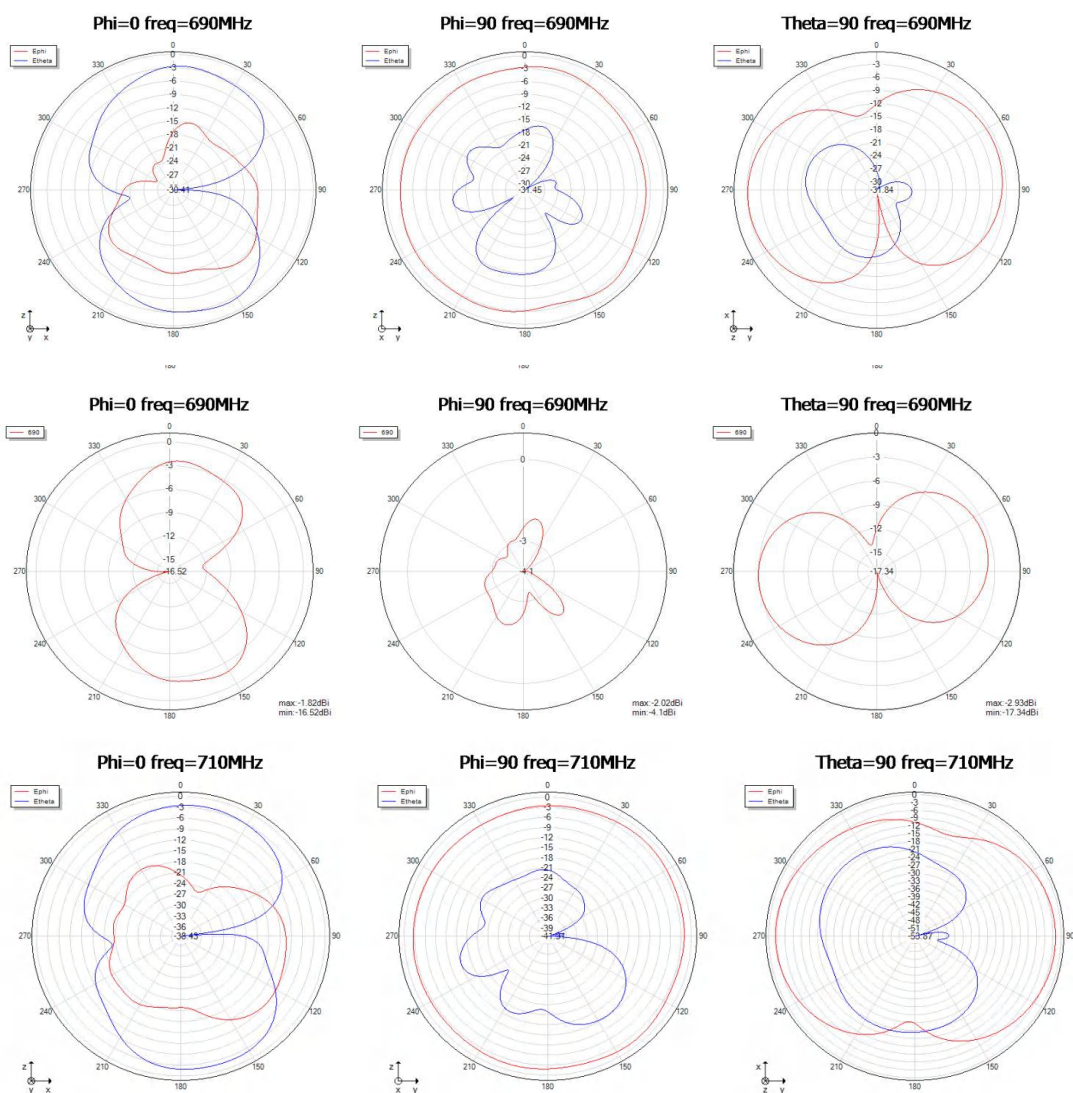
天线增益(Antenna gain)

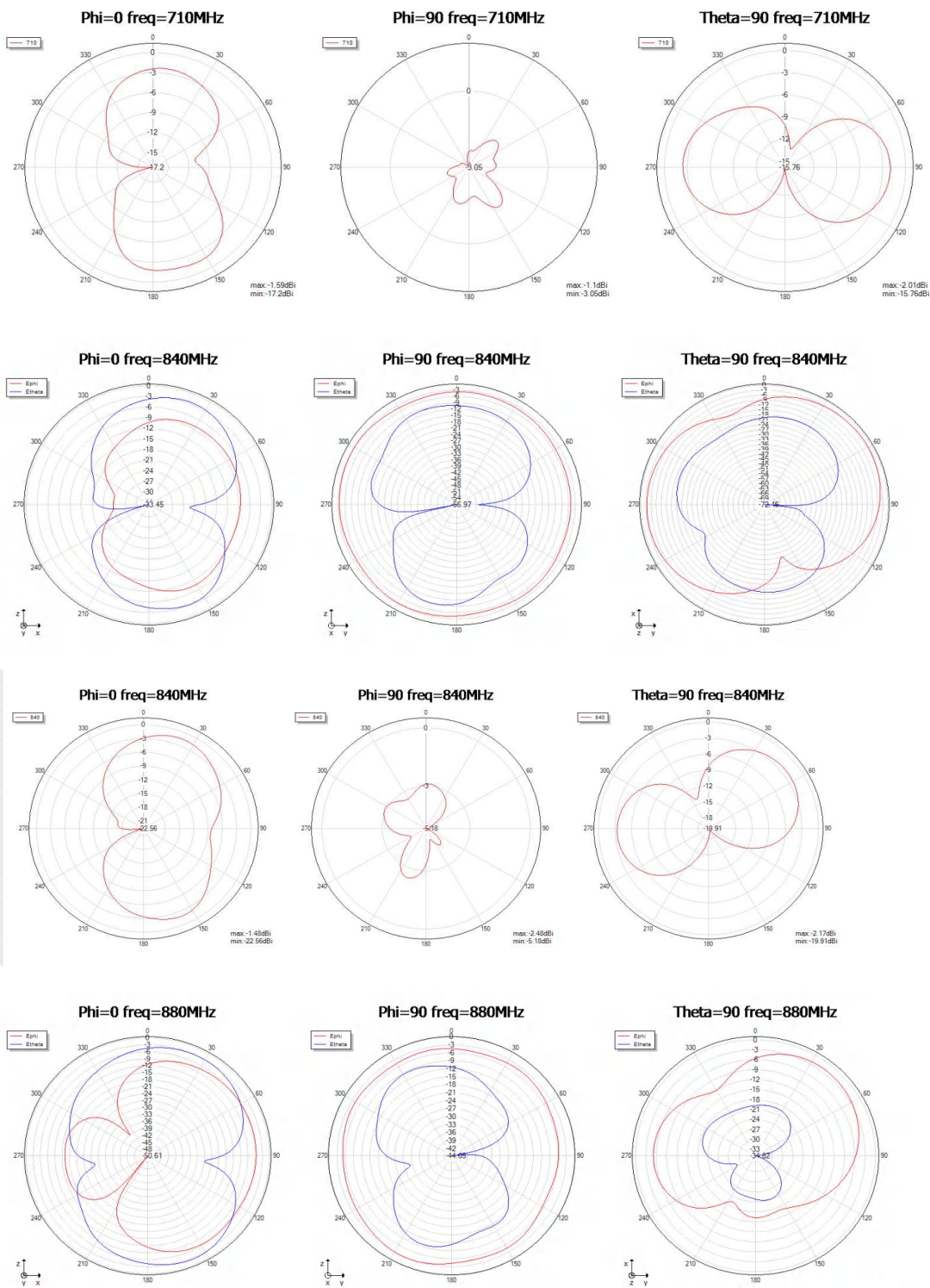
Standard	Band	Frequency	Gain(dbi)
FDD_LTE	FDD_B2	1900	1.55
FDD_LTE	FDD_B4	1720	1.09
FDD_LTE	FDD_B5	840	-1.47
FDD_LTE	FDD_B7	2540	-2.55
FDD_LTE	FDD_B12	710	-0.38
FDD_LTE	FDD_B17	710	-0.38
FDD_LTE	FDD_B25	1900	1.55
FDD_LTE	FDD_B26	840	-1.47
FDD_LTE	FDD_B28	710	-0.38
FDD_LTE	FDD_B66	1720	1.09
FDD_LTE	FDD_B71	690	-0.57
WCDMA	WCDMA_B2	1900	1.55
WCDMA	WCDMA_B4	1720	1.09
WCDMA	WCDMA_B5	840	-1.47
GSM	GSM850	840	-1.47
GSM	GSM900	880	-1.05
GSM	DCS1800	1720	1.09
GSM	PCS1900	1900	1.55
2.4G WIFI		2450	1.35
5G WIFI		5100	1.80
5G WIFI		5300	2.42
5G WIFI		5500	1.34
5G WIFI		5800	-1.45
GPS	L1	1575	1.76
BT		2450	1.35
NFC		13.56	0.5
FM		108	0.8

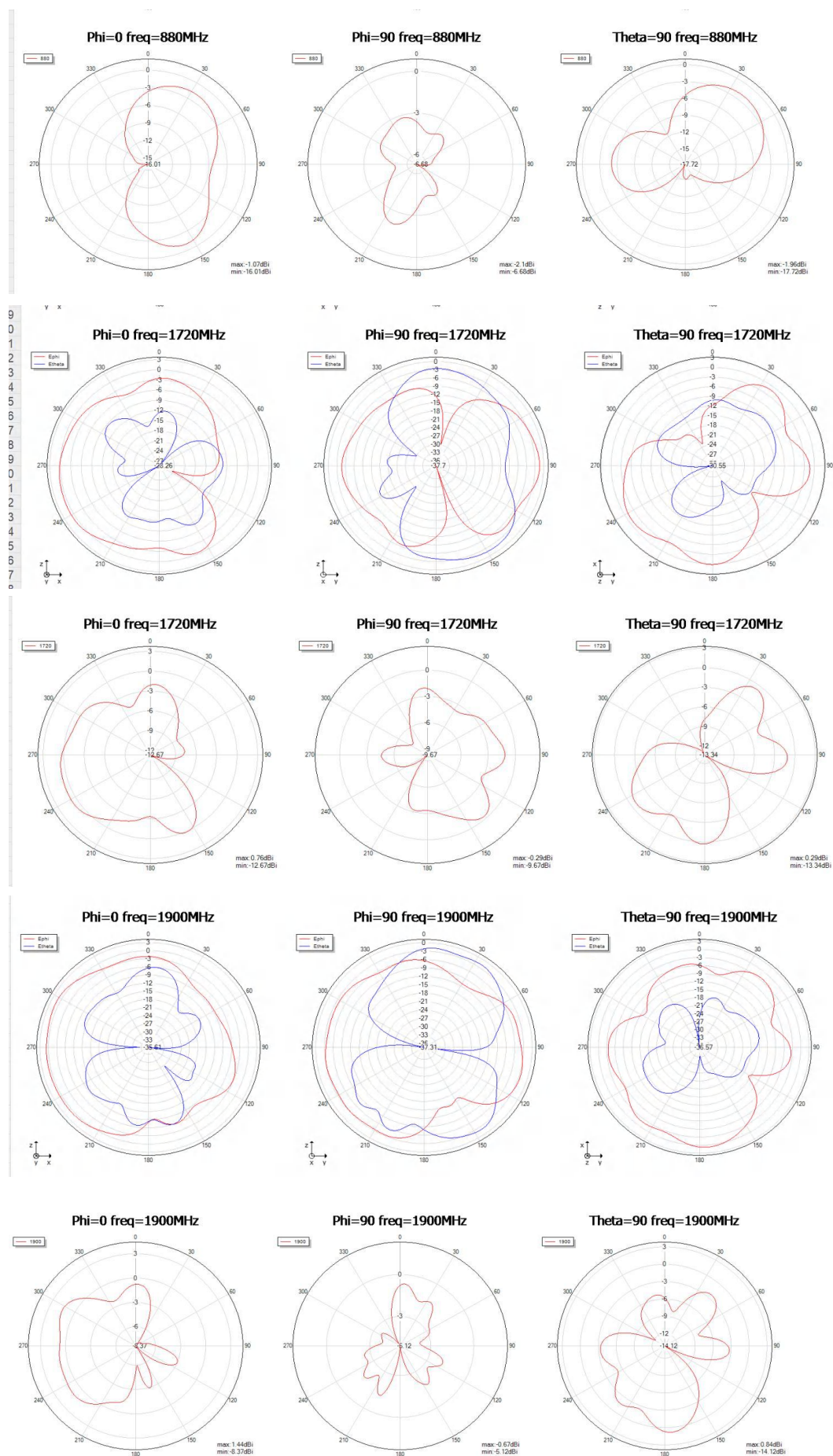
MIMO antenna apple map

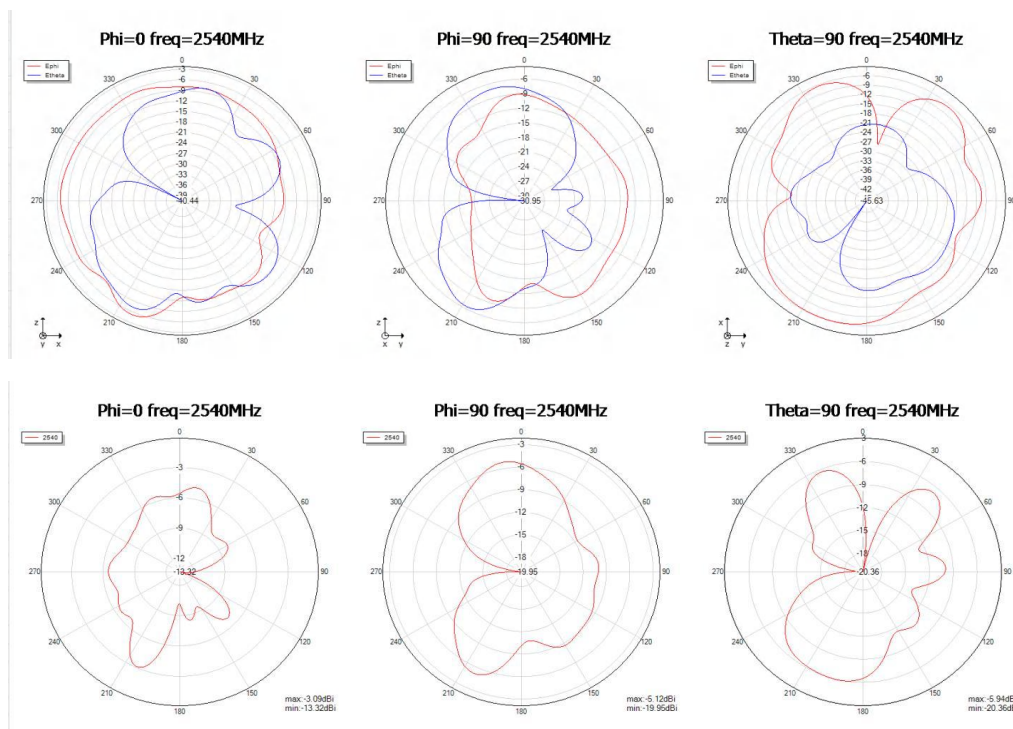


(MIMO antenna) PolarGraphs/EtotalGraphs



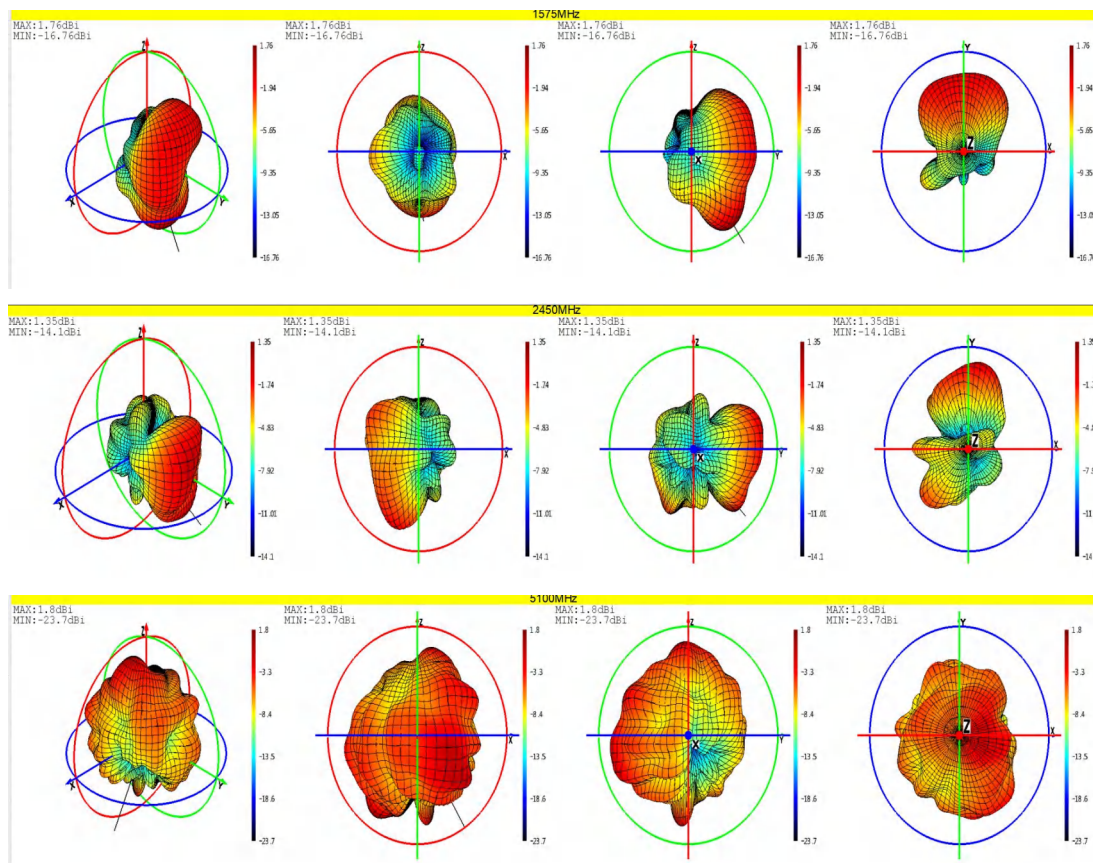


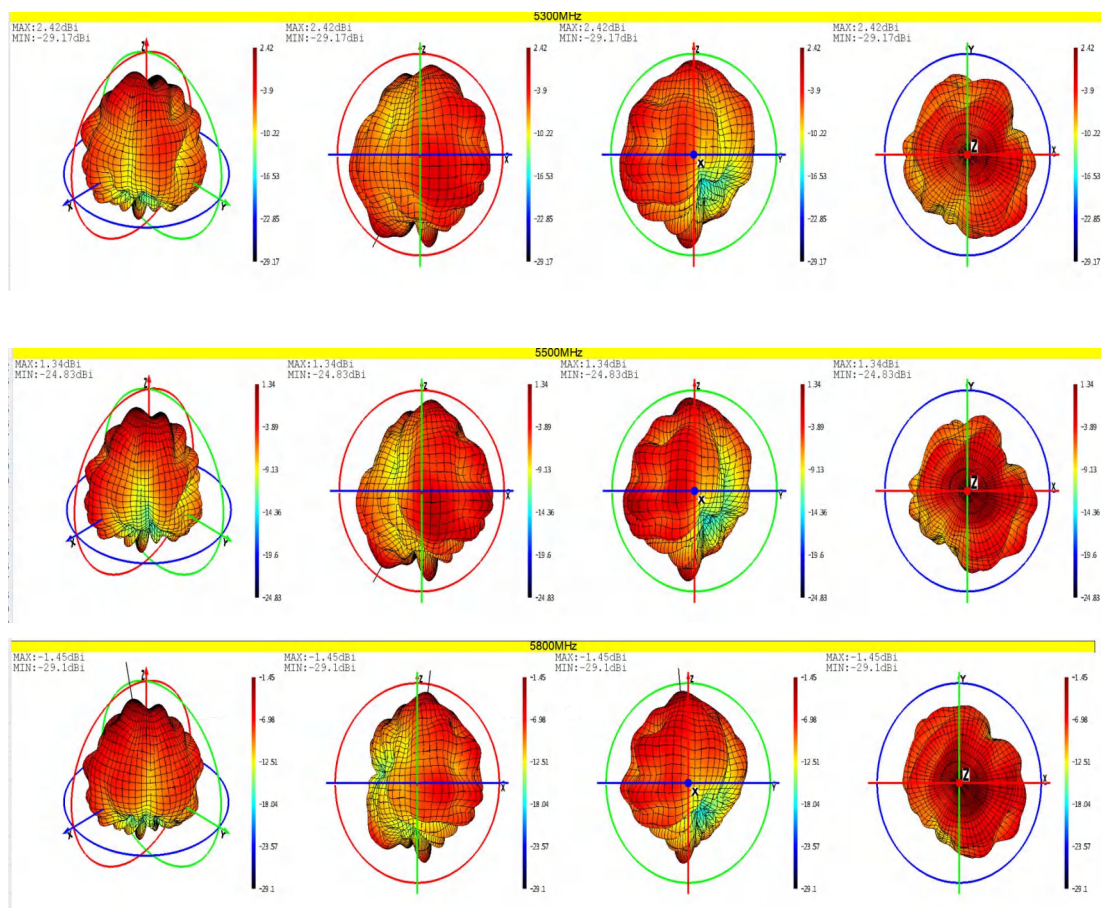




(GPS antenna) + (2.4G/5G WIFI/BT antenna) apple

Map





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

PolarGraphs/EtotalGraphs

