

ANWEI commnuication Equipment Co.,Ltd

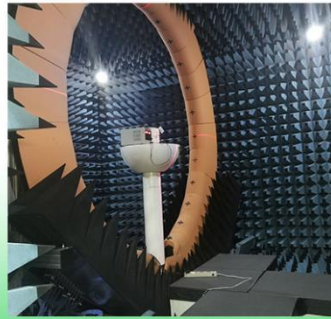
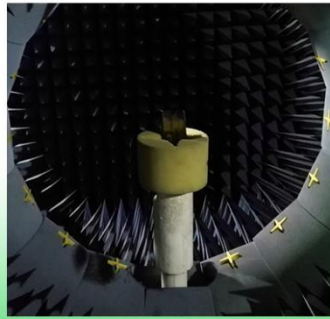
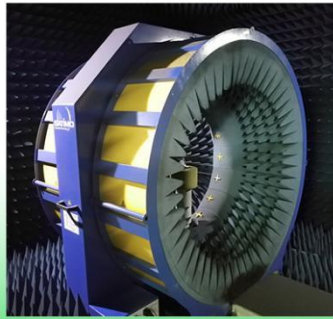
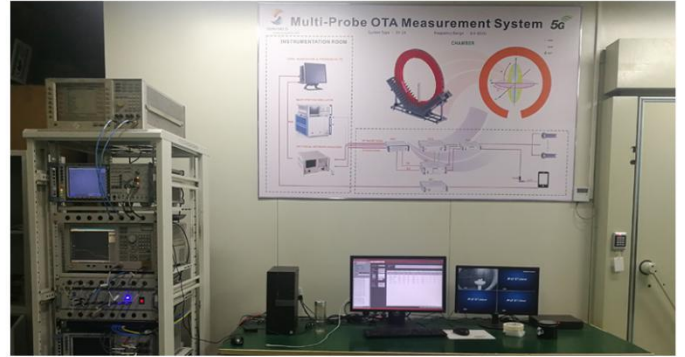
APPROVAL SHEET

Customer	Youmi	Specs	S69 PRO
Part Number		Frequency Band	2G:GSM850/900/1800/1900 3G:WCDMA-B2/4/5/8 4G:LTE-B2/4/5/7/12/25/26/28A/28B/40/41/66/ /71 5G:N2/5/7/25/28/40/41/66/71/77/78
Color	Black	Edition	REV:A0
Salesperson	Mr.Xie	Design	Zong Zhi Hui
Structure	Qin Yun Lin	Confirm	
Date	2025/05/14	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

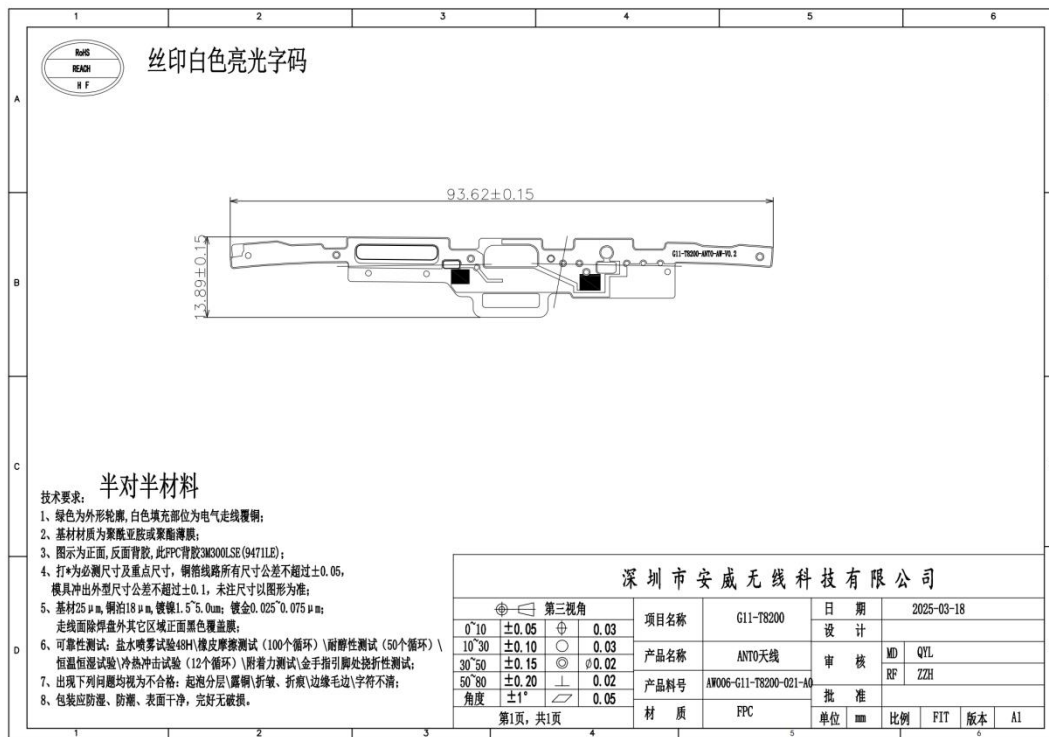
Project development environment



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

(antenna 0)



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

2G:GSM850/900

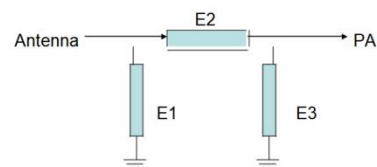
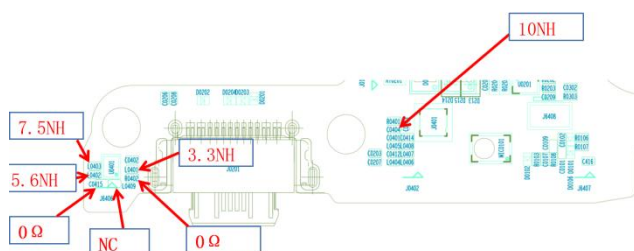
3G:WCDMA-B5/8

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

5G:N5/28/71

(Matcheing network):

ANT0天线匹配电路



ANT0:天线开关协议: 2025-03-14 S67L(V5版)TRX

RF1:GSM850/900+WCDMA-B5/8+LTE-B5/26+N5

RF2:

RF3:LTE-B12/28A/28B+N28

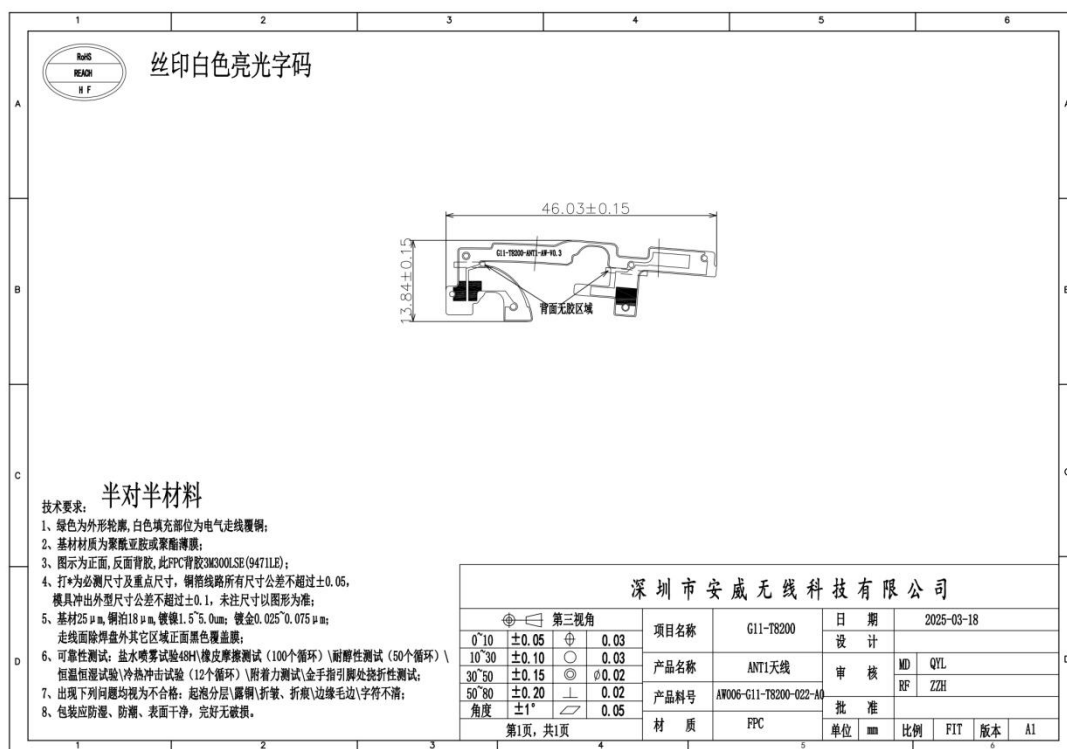
RF4:LTE-B71+N71

ANT1: DCS1800/PCS1900+WCDMA-B2/4+LTE-B2/4/7/25/66+N2/7/25/40/41/66

ANT4:N77/78

Element	Value
E1	10NH
E2	0Ω
E3	NC

(antenna 1)



(Working frequency band): 1710~2690MHZ TRX

2G:GSM1800/1900

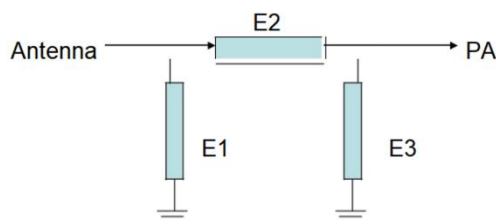
3G:WCDMA-B2/4

4G:LTE-B2/4/7/25/40/41/66

5G:N2/7/25/40/41/66

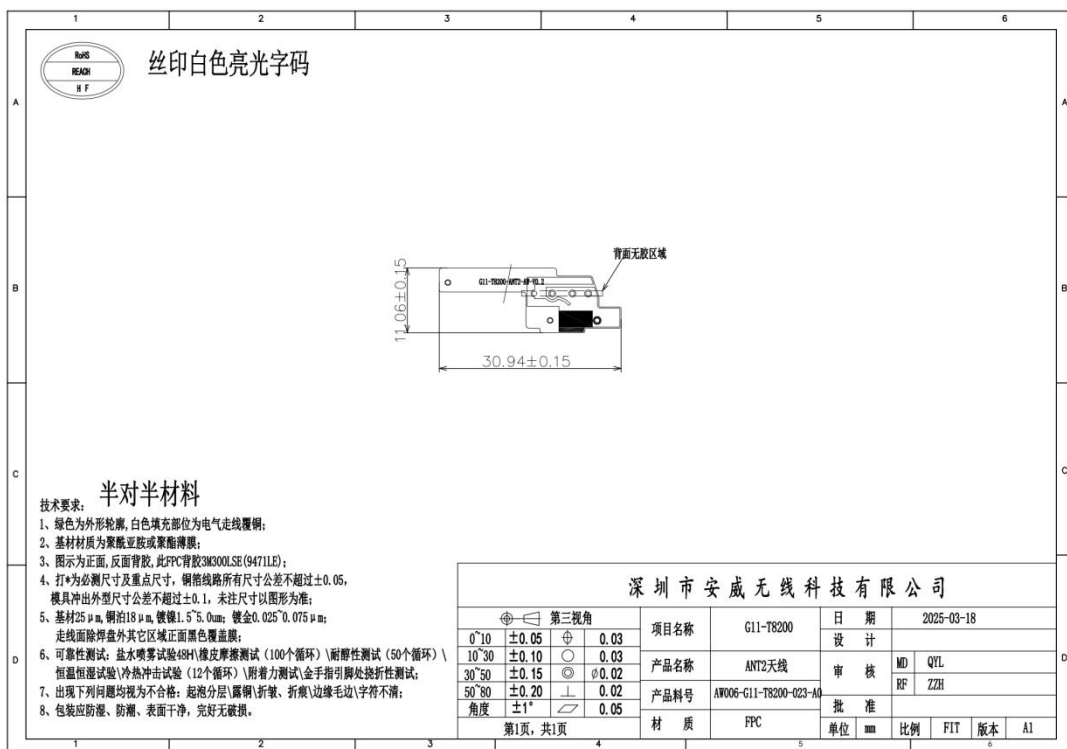
(Matching network):

ANT1匹配电路



Element	Value
E1	
E2	
E3	
E4	
E5	

(MIMO antenna 2)



(Working frequency band): 1710~2690MHZ RX 3300~4200MHZ RX

2G:GSM1800/1900

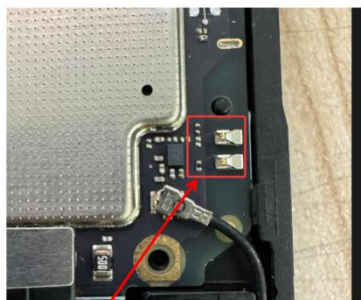
3G:WCDMA-B2/4

4G:LTE-B2/4/7/25/40/41/66

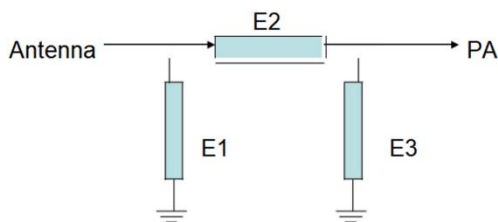
5G:N2/7/25/66/40/41/77/78

(Matcheing network):

ANT2匹配电路

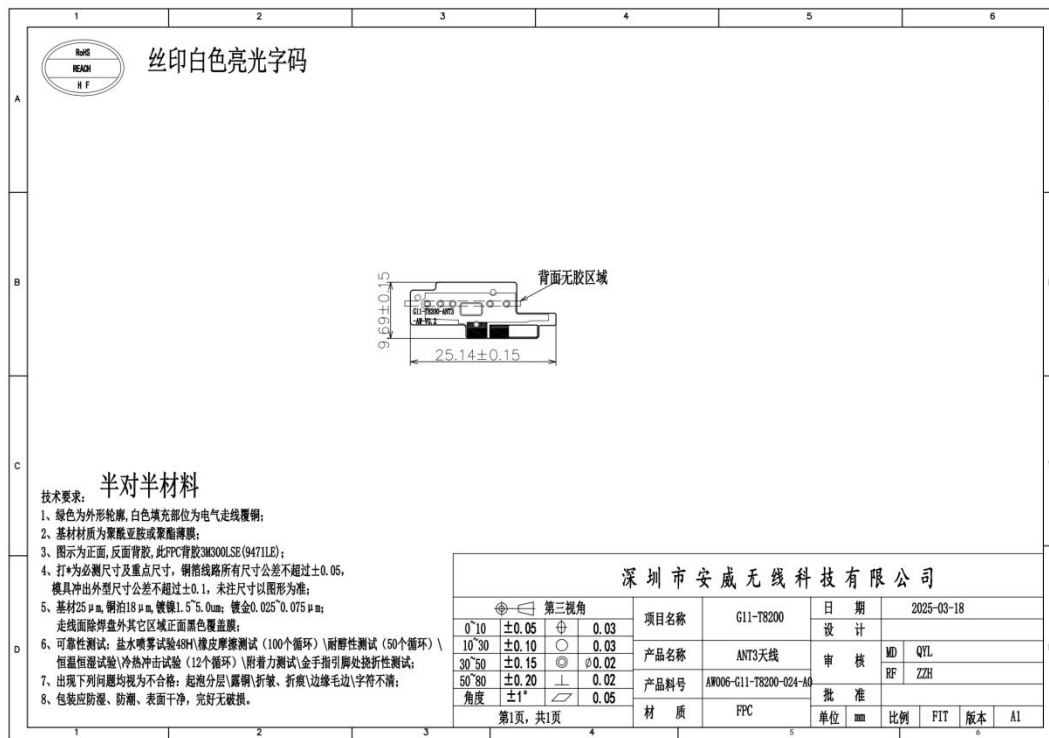


保持主板原匹配状态



Element	Value
E1	
E2	
E3	
E4	
E5	

(MIMO antenna 3)



(Working frequency band): 1710~2690MHZ RX 3300~4200MHZ RX

2G:GSM1800/1900

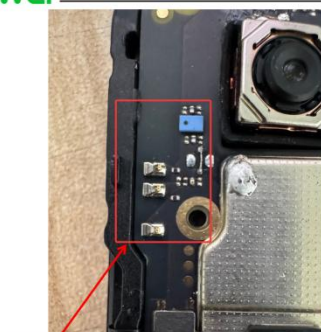
3G:WCDMA-B2/4

4G:LTE-B2/4/7/25/40/41/66

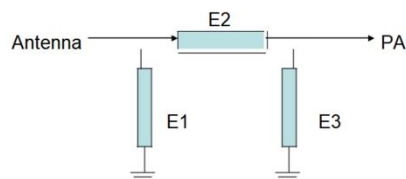
5G:N2/7/25/66/40/41/77/78

(Matcheing network):

ANT3匹配电路

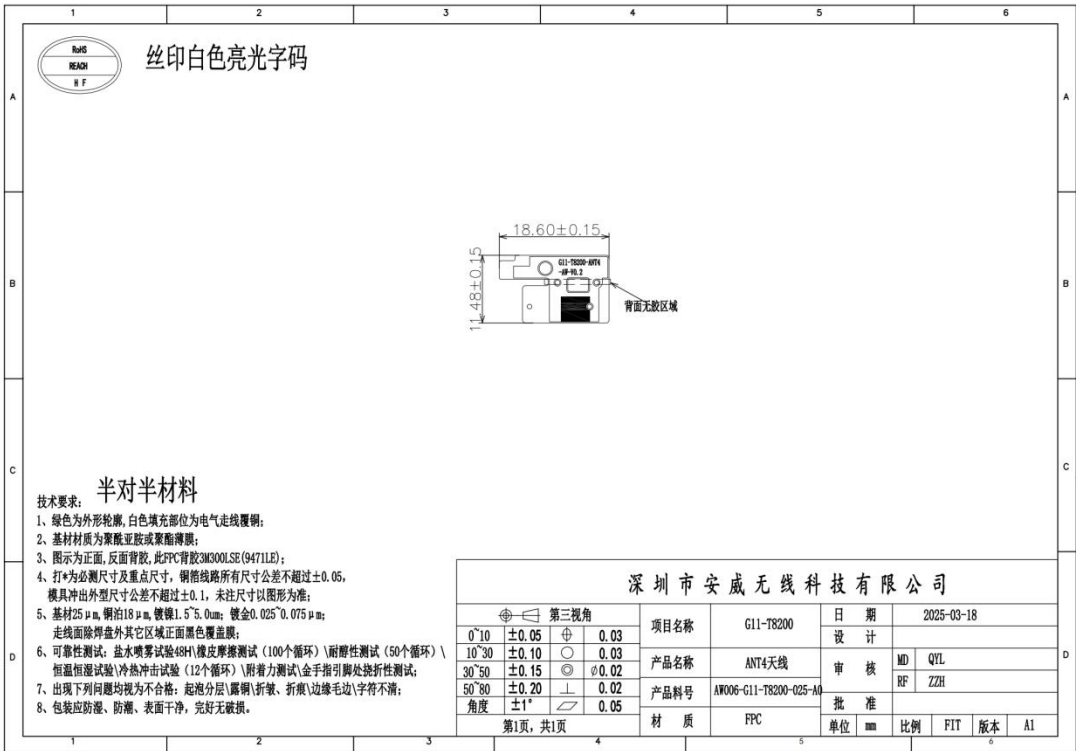


保持主板原匹配状态



Element	Value
E1	
E2	
E3	
E4	
E5	

(antenna 4)



(Working frequency band): 1710~2690MHZ RX 3300~4200MHZ TRX

2G:GSM1800/1900

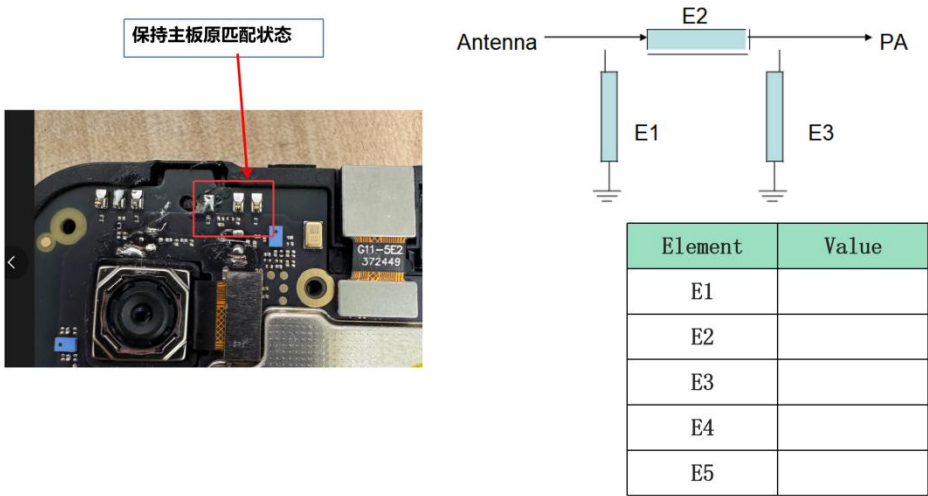
3G:WCDMA-B2/4

4G:LTE-B2/4/7/25/40/41/66

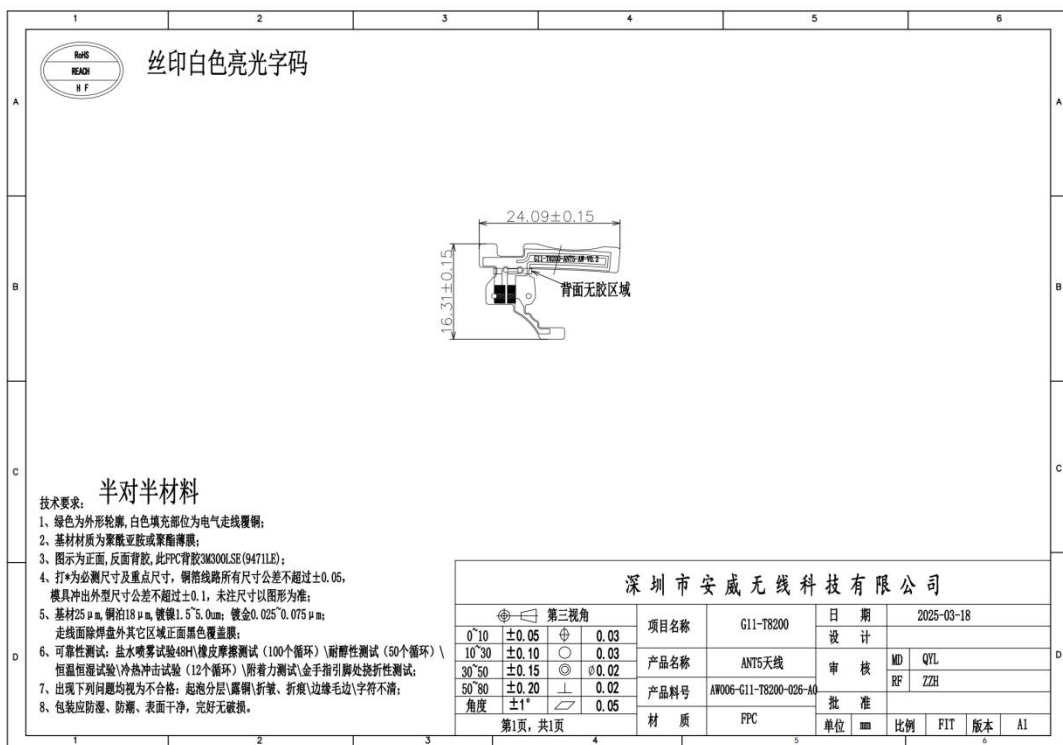
5G:N2/7/25/66/40/41/77/78

(Matcheing network):

ANT4匹配电路



ANT5 (GPS L1 antenna) + (2.4G/5G WIFI/BT antenna)



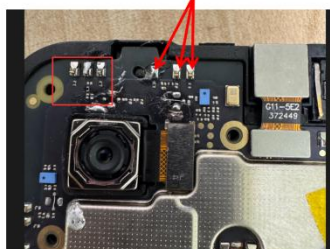
(Working frequency band of GPS antenna) : 1575.42MHZ

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

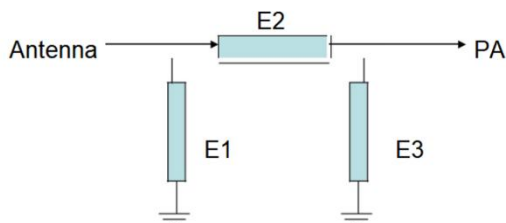
(Matcheing network):

ANT5天线匹配电路

三合一要用3个弹脚, 不能取消!!!

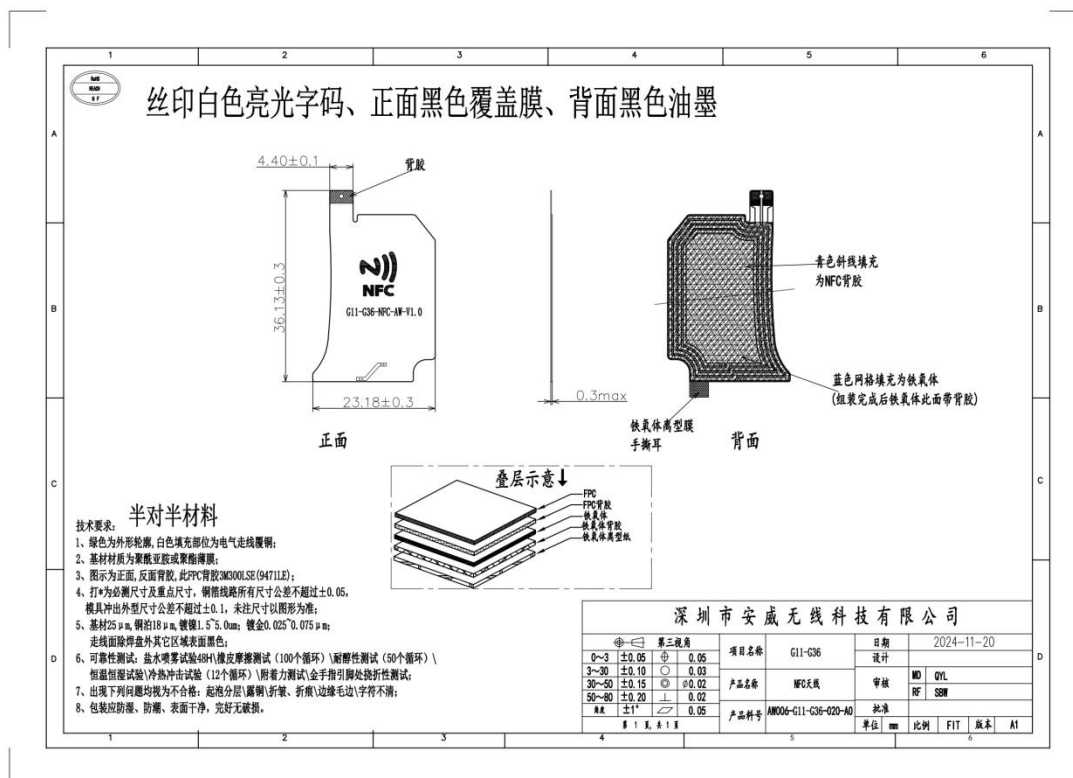


原状态匹配



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

(NFC antenna)



ANWEI ANT TRP&TIS parameter Summary of S69 PRO

BAND	Channel	TRP (dBm)	TIS (dBm)
5G N2 (10M)	L	18.70	
	M	18.66	
	H	18.50	-90.25
5G N5 (10M)	L	16.25	
	M	16.36	
	H	16.05	-88.04
5G N7 (10M)	L	15.21	
	M	15.30	
	H	15.09	-88.85
5G N25 (10M)	L	17.69	
	M	17.85	
	H	18.30	-90.59
5G N28 (10M)	L	16.35	
	M	16.45	
	H	16.06	-88.05
5G N66 (10M)	L	18.25	
	M	17.89	
	H	17.94	-90.51
5G N71 (10M)	L	14.56	
	M	14.68	
	H	15.25	-89.22
5G N77 (100M)	L	19.10	
	M	18.25	
	H	18.91	-84.05
5G N78 (100M)	L	19.56	
	M	18.25	
	H	18.73	-82.80

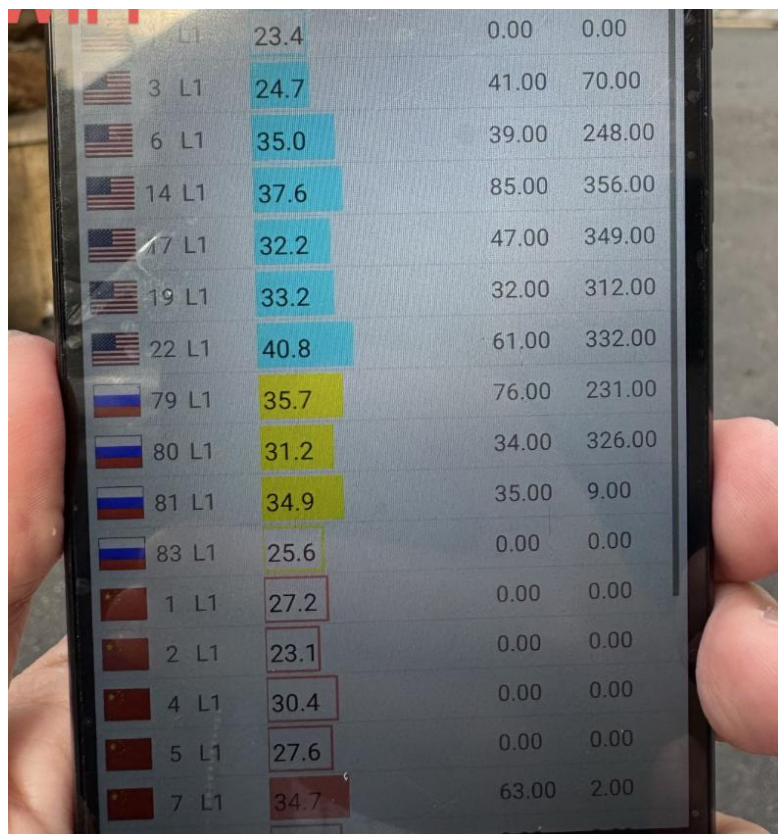
5G N40 (10M)	L	16.61	
	M	17.59	
	H	17.82	-90.10
5G N41 (10M)	L	15.51	
	M	15.30	
	H	14.90	-88.33

BAND	Channel	TRP (dBm)	TIS (dBm)
FDD B2	L	19.90	
	M	19.05	
	H	18.36	-91.03
FDD B4	L	19.74	
	M	19.13	
	H	19.76	-90.89
FDD B5	L	15.85	
	M	15.90	
	H	16.20	-85.09
FDD B7	L	15.65	
	M	15.10	
	H	14.72	-90.70
FDD B12	L	16.62	
	M	16.83	
	H	16.32	-87.43
FDD B25	L	18.18	
	M	17.46	
	H	16.72	-92.88
FDD B26	L	15.00	
	M	15.39	
	H	15.48	-89.11
FDD B28A	L	17.56	
	M	17.46	
	H	16.73	-88.21
FDD B28B	L	16.85	
	M	16.79	
	H	16.82	-88.47
FDD B66	L	18.65	
	M	18.14	
	H	18.23	-92.33

FDD B71	L	14.75	
	M	14.25	
	H	15.51	-89.02
TDD B40	L	16.25	
	M	18.10	
	H	18.20	-90.50
TDD B41	L	15.25	
	M	13.63	
	H	13.25	-88.91
WCDMA-B2	L	18.60	
	M	17.99	
	H	17.28	-103.29
WCDMA-B4	L	18.17	
	M	17.75	
	H	18.82	-103.52
WCDMA-B5	L	15.07	
	M	15.12	
	H	15.65	-101.79
WCDMA-B8	L	14.22	
	M	13.16	
	H	10.00	-101.90

	Channel	TRP (dBm)	TIS (dBm)
GSM850	L	23.85	
	M	24.50	
	H	25.34	-100.55
GSM900	L	22.69	
	M	21.35	
	H	19.77	-101.57
DCS1800	L	26.37	
	M	25.48	
	H	25.75	-102.19
PCS1900	L	25.62	
	M	25.69	
	H	25.18	-103.57
2.4G WIFI B 模 11M	L	14.03	-82.60
	M	12.91	-82.73
	H	14.84	-82.11
5 G WIFI A 模 54M	L	5.04	-67.42
	M	7.01	-71.17
	H	8.55	-70.26

(GPS Test)



Country	Satellite ID	Frequency	C/N0 (dB-Hz)	Position (Lat, Lon)
USA	1	L1	23.4	0.00, 0.00
USA	3	L1	24.7	41.00, 70.00
USA	6	L1	35.0	39.00, 248.00
USA	14	L1	37.6	85.00, 356.00
USA	17	L1	32.2	47.00, 349.00
USA	19	L1	33.2	32.00, 312.00
USA	22	L1	40.8	61.00, 332.00
Russia	79	L1	35.7	76.00, 231.00
Russia	80	L1	31.2	34.00, 326.00
Russia	81	L1	34.9	35.00, 9.00
Russia	83	L1	25.6	0.00, 0.00
China	1	L1	27.2	0.00, 0.00
China	2	L1	23.1	0.00, 0.00
China	4	L1	30.4	0.00, 0.00
China	5	L1	27.6	0.00, 0.00
China	7	L1	34.7	63.00, 2.00

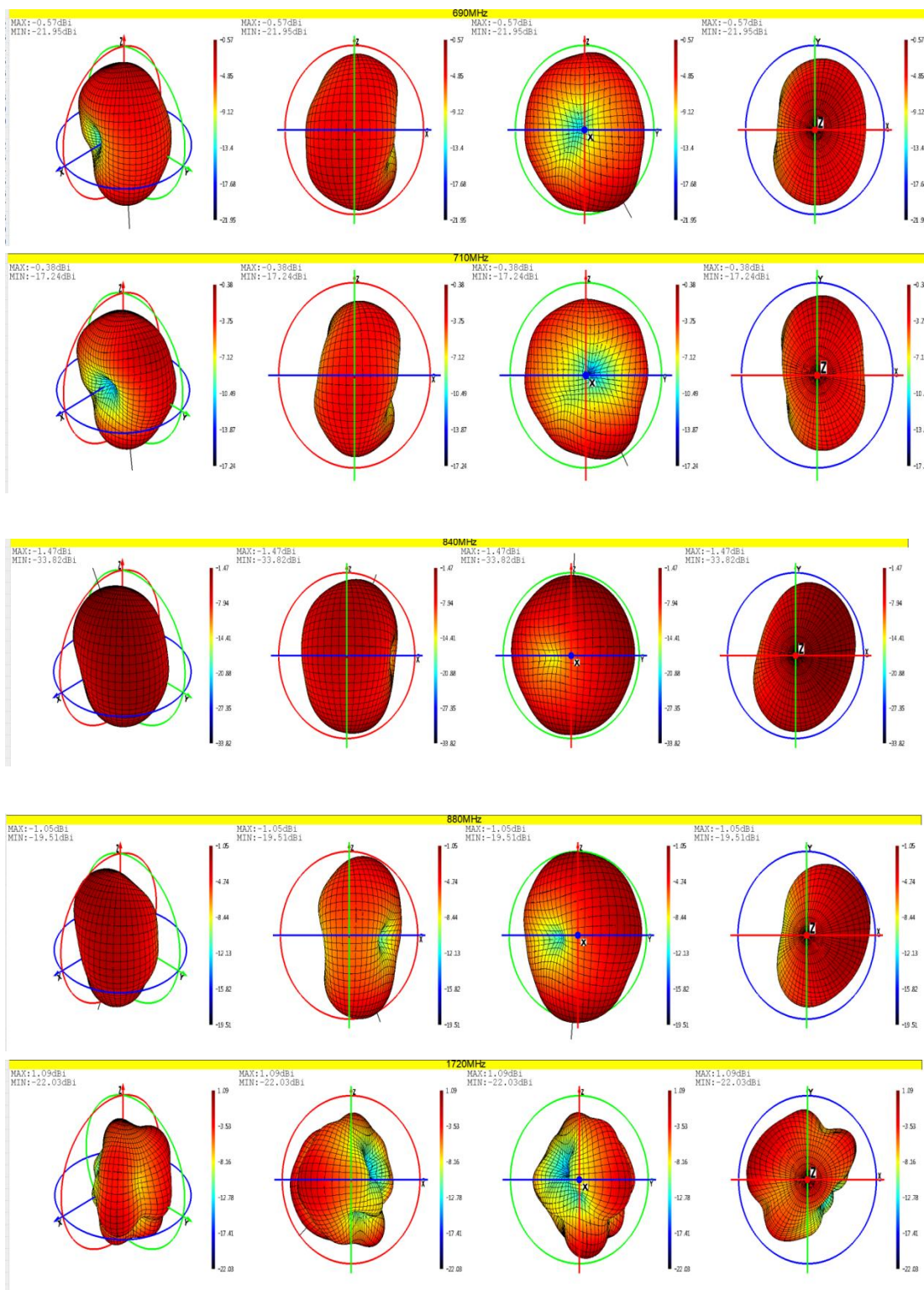
(Efficiency of GPS antenna): 33.38%

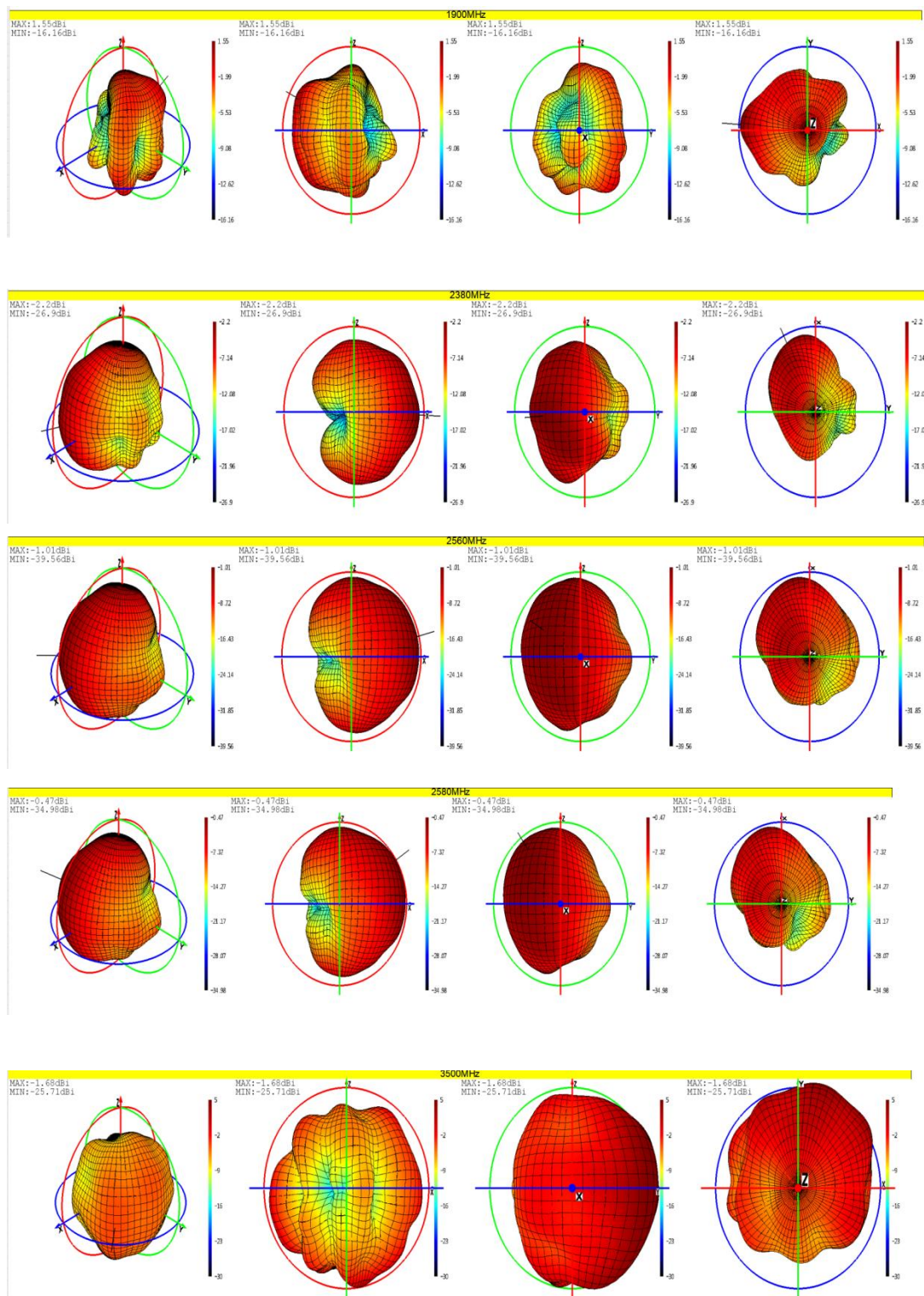
天线增益(Antenna gain)

Standard	Band	Frequency	Gain(dbi)
5G NR	N2	1900	1.55
5G NR	N5	840	-1.47
5G NR	N7	2560	-1.01
5G NR	N25	1900	1.55
5G NR	N28	710	-0.38
5G NR	N40	2380	-2.20
5G NR	N41	2580	-0.47
5G NR	N66	1720	1.09
5G NR	N71	690	-0.57
5G NR	N77	3500	-1.68

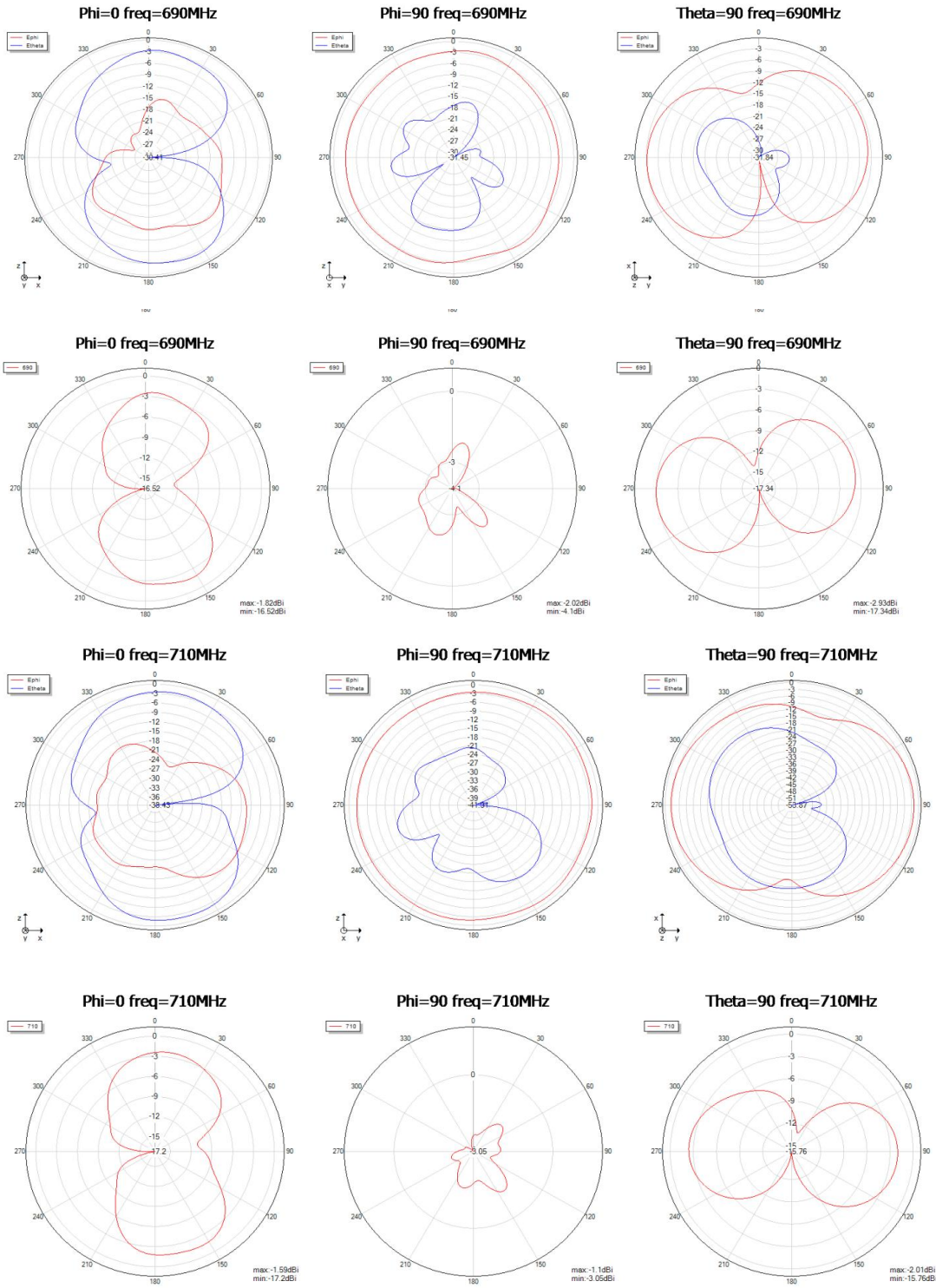
5G NR	N78	3500	-1.68
FDD_LTE	FDD_B2	1900	1.55
FDD_LTE	FDD_B4	1720	1.09
FDD_LTE	FDD_B5	840	-1.47
FDD_LTE	FDD_B7	2560	-1.01
FDD_LTE	FDD_B12	710	-0.38
FDD_LTE	FDD_B25	1900	1.55
FDD_LTE	FDD_B26	840	-1.47
FDD_LTE	FDD_B28	710	-0.38
TDD_LTE	TDD_B40	2380	-2.20
TDD_LTE	TDD_B41	2580	-0.47
FDD_LTE	FDD_B66	1720	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
WCDMA	WCDMA_B8	880	-1.05
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

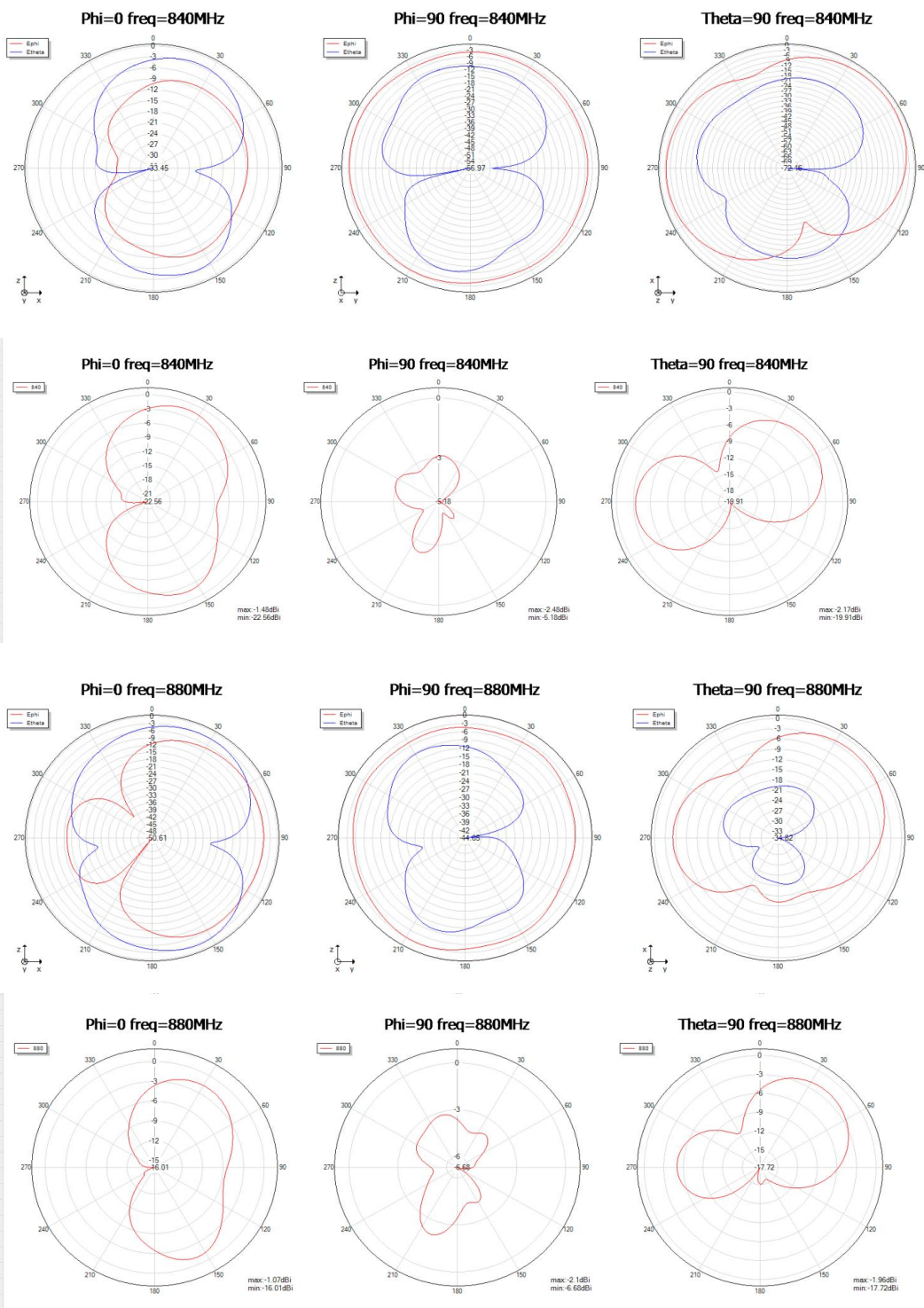
MIMO antenna apple map

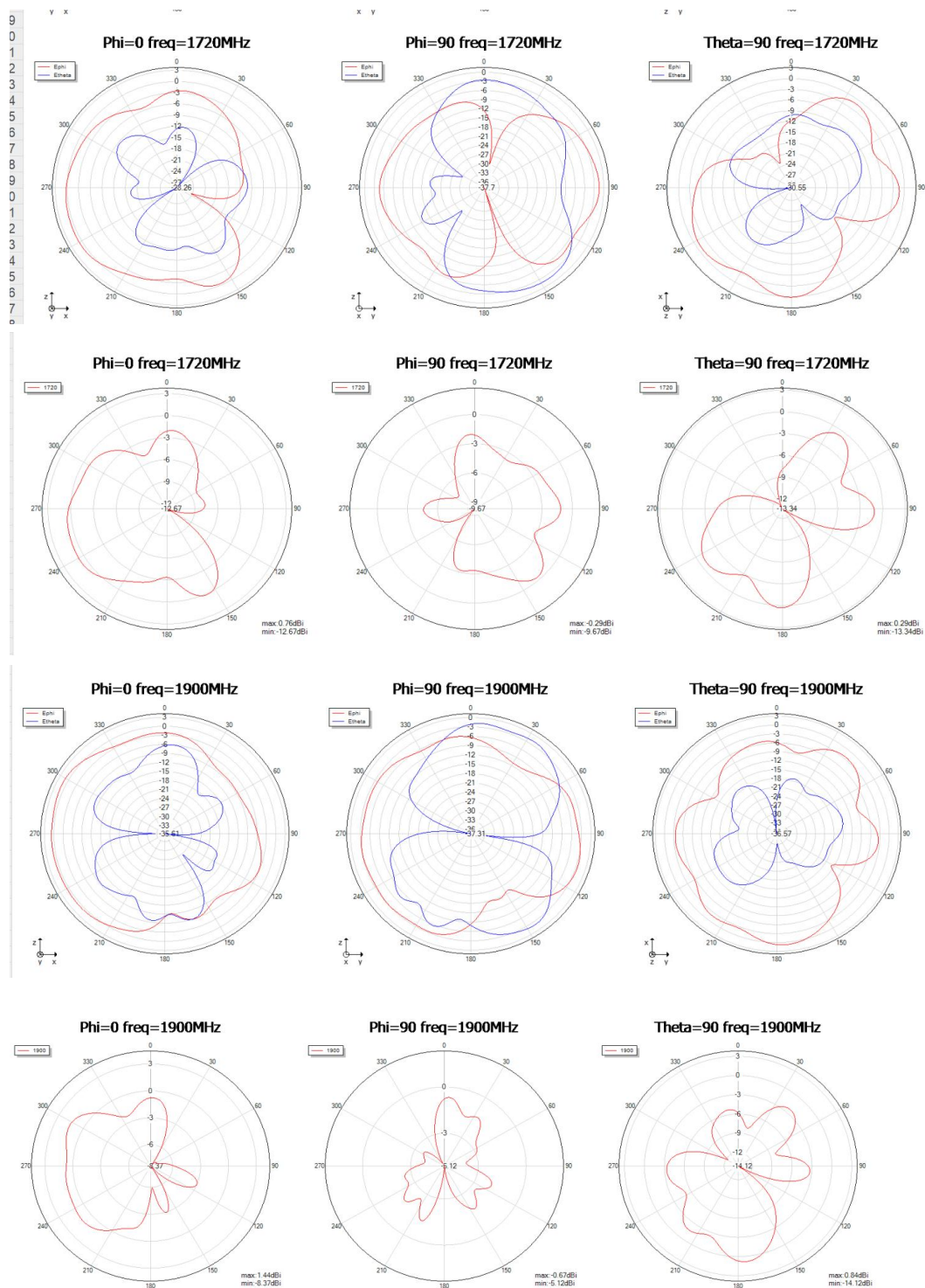


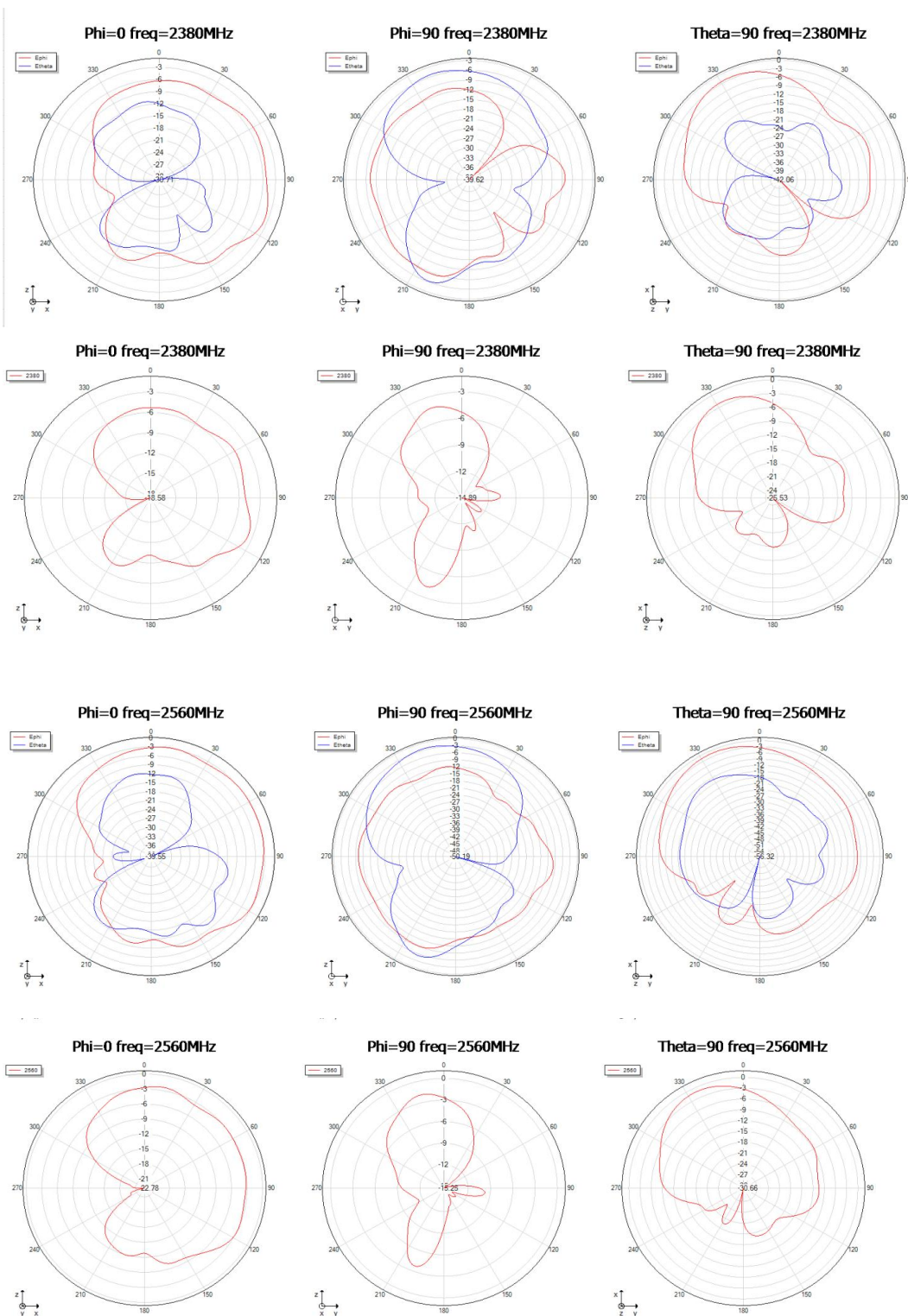


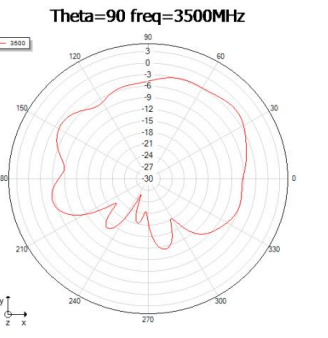
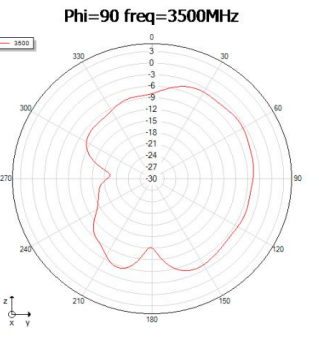
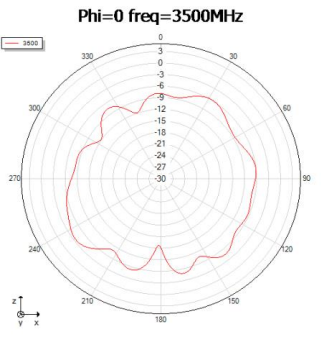
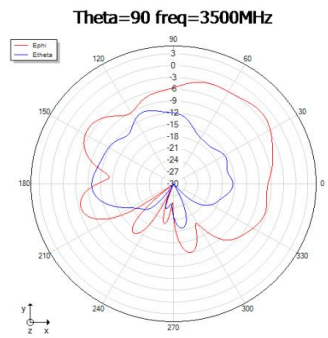
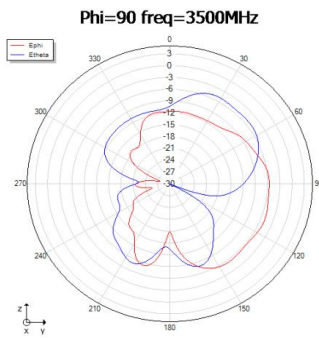
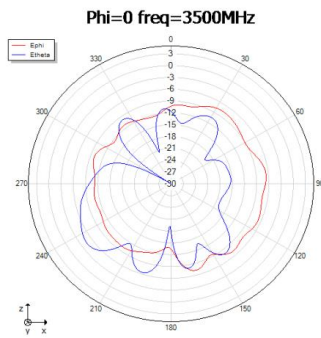
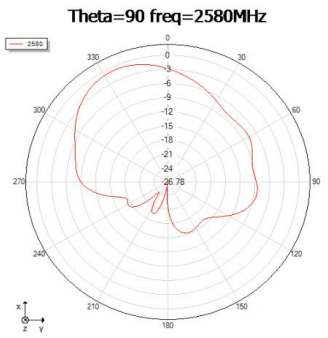
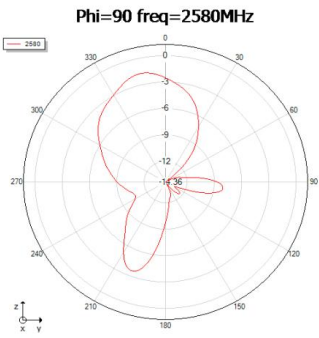
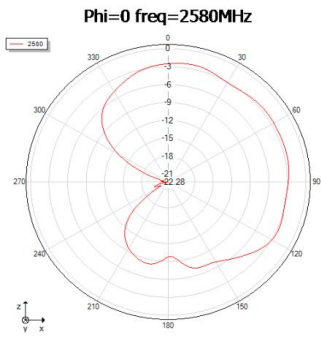
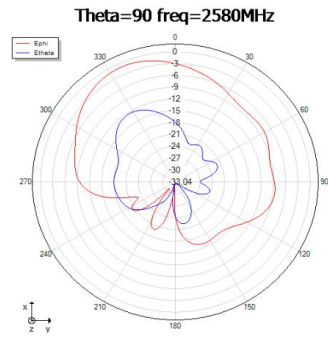
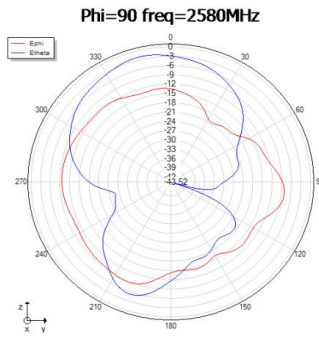
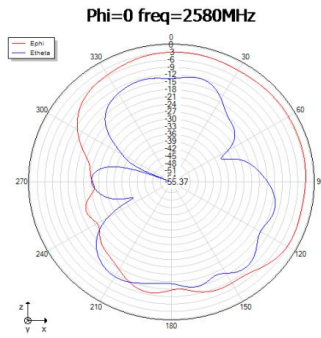
(MIMO antenna) PolarGraphs/EtotalGraphs





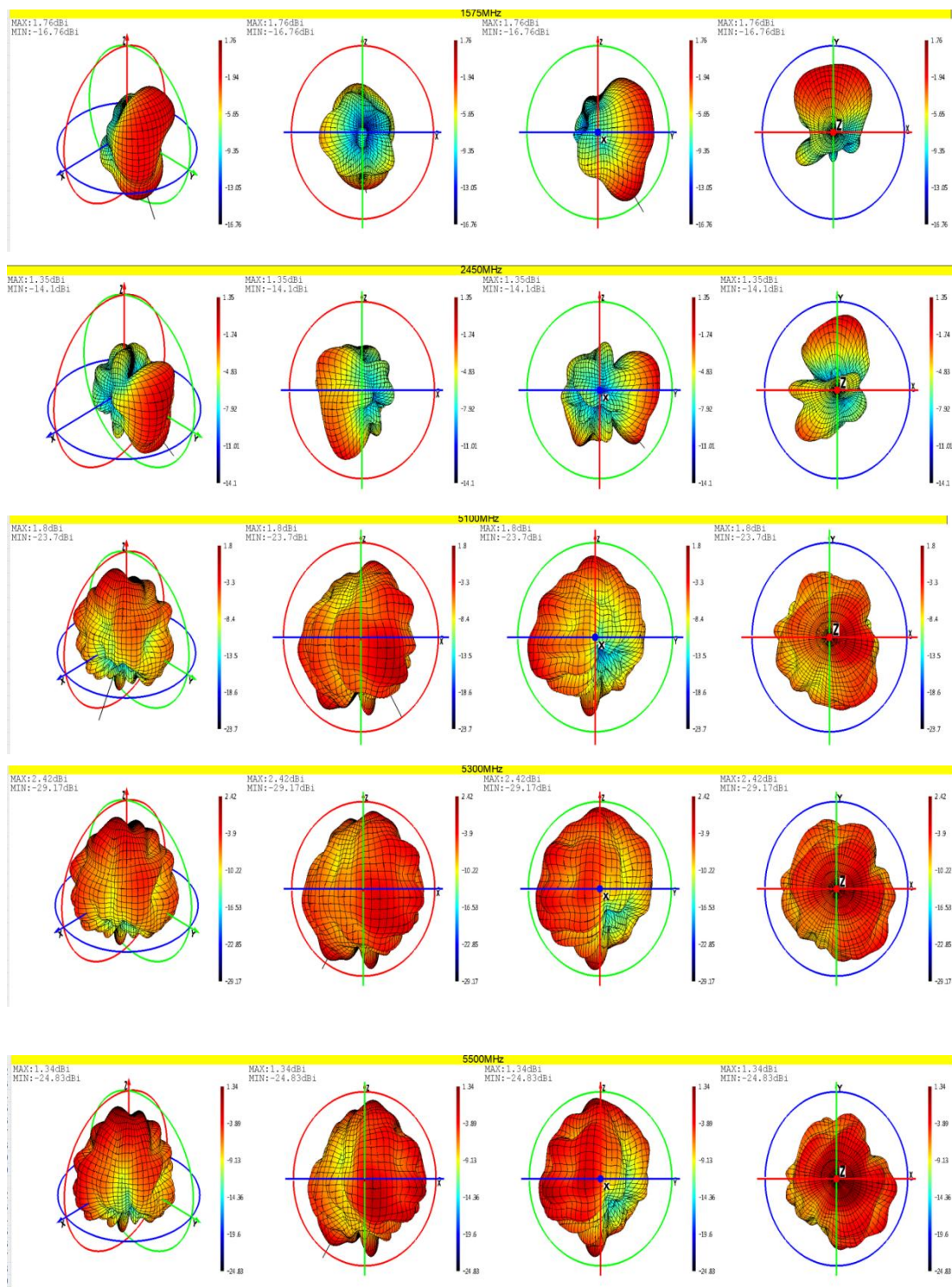


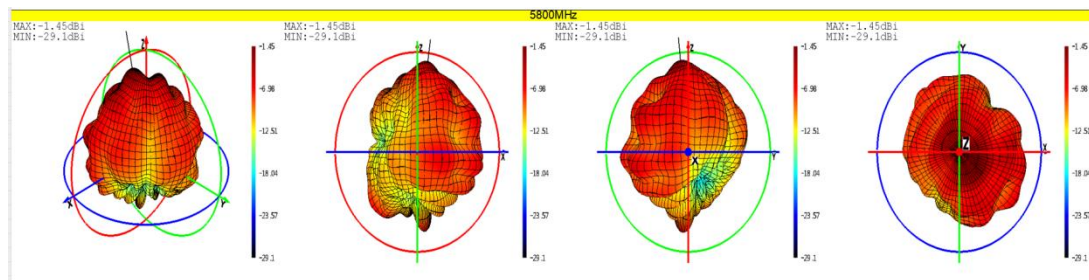




(GPS antenna) + (2.4G/5G WIFI/BT antenna) apple

Map





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

PolarGraphs/EtotalGraphs

