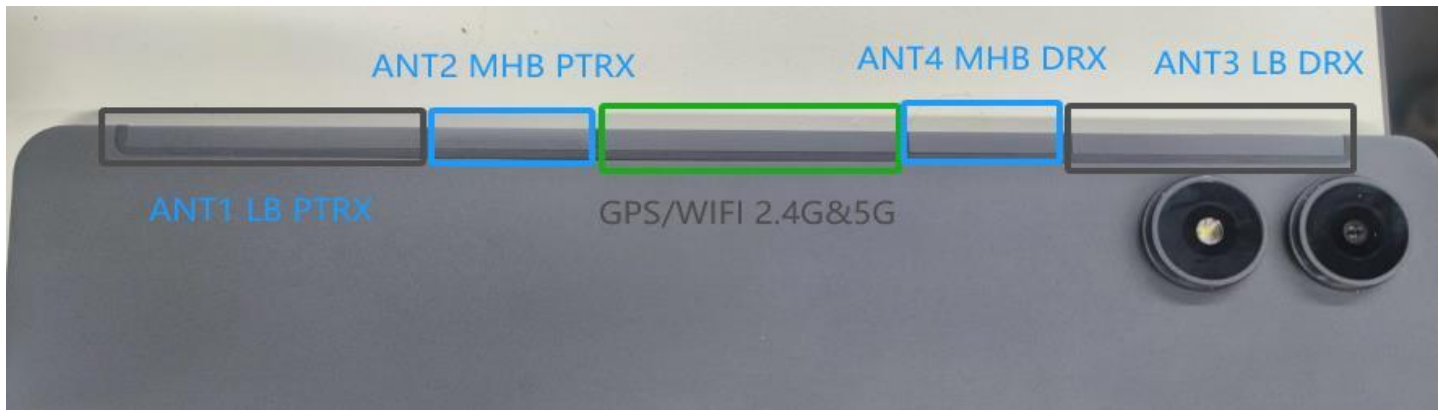


Antenna Specifications

1. Antenna type

Antenna	frequency domain	Antenna type	housing manufacturer
ANT1 LBPTRX	700-960Mhz	IFA	Shenzhen Kaisheng hardware Plastic products Co., LTD
ANT2 MHB PTRX	1700-2700Mhz	LOOP	
ANT3 LB DRX	700-960Mhz	IFA	
ANT4 MHB DRX	1700-2700Mhz	LOOP	
GPS/WIFI (2.4G)	1. 575Ghz, 2. 4G-2.48GHZ	IFA	
5G WiFi	5.0-5.8Ghz	LOOP	

2. Picture1 Antenna Location Map

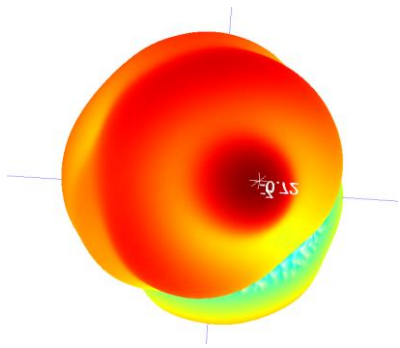
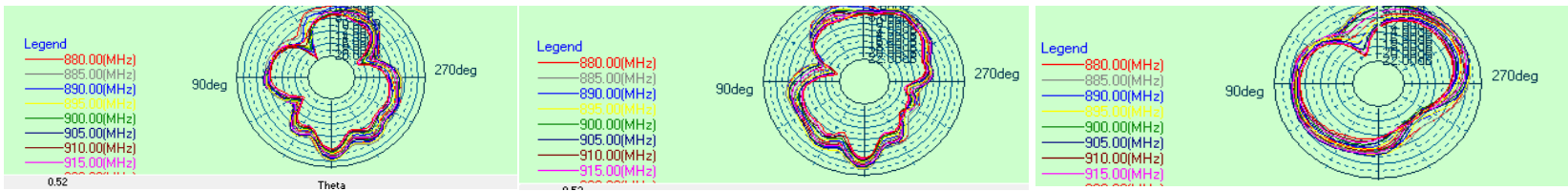


3. Antenna Gain

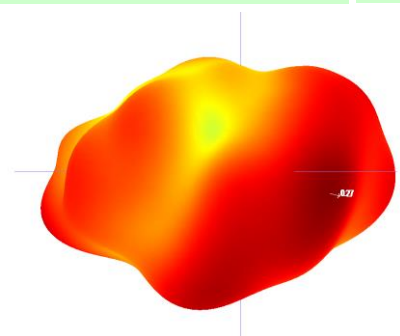
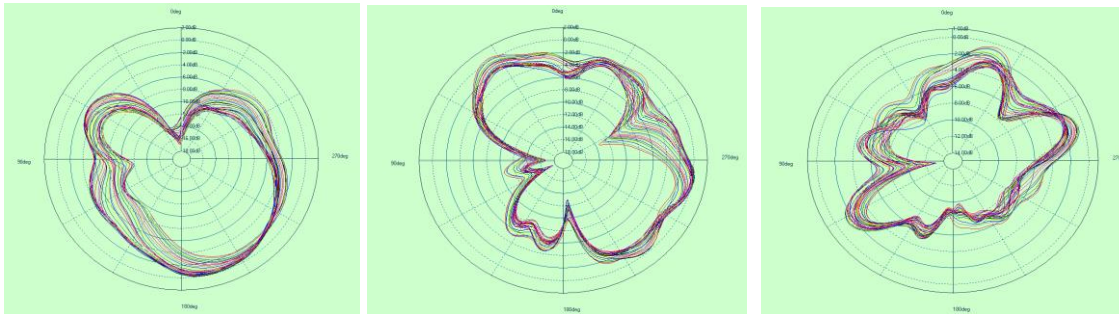
2G	CH	Gain(dBi)	2G	CH	Gain(dBi)
GSM850	128	0.29	DCS1800	512	0.27
	190	0.29		698	0.27
	251	0.29		885	0.27
EGSM900	1	0.75	PCS1900	512	0.16
	62	0.75		661	0.16
	124	0.75		810	0.16
3G	CH	Gain(dBi)	3G	CH	Gain(dBi)
WCDMA1	9612	0.66	WCDMA5	4132	0.29
	9750	0.66		4183	0.29
	9888	0.66		4233	0.29
WCDMA2	9262	0.16	WCDMA8	2712	0.75
	9400	0.16		2788	0.75
	9538	0.16		2863	0.75
4G	CH	Gain(dBi)	4G	CH	Gain(dBi)
FDD-B1(10M)	18050	0.66	FDD-B26(10M)	26715	0.29
	18300	0.66		26865	0.29
	18550	0.66		27015	0.29
FDD-B2(10M)	18650	0.16	FDD-B28A (10M)	27260	0.59
	18900	0.16		27360	0.59
	19150	0.16		27460	0.59
FDD-B3(10M)	19250	0.27	FDD-B28B (10M)	27410	0.59
	19575	0.27		27510	0.59
	19900	0.27		27610	0.59

FDD-B4(10M)	20000	0.27	FDD-B66 (10M)	132022	0.27
	20175	0.27		132322	0.27
	20350	0.27		132622	0.27
FDD-B5(10M)	20450	0.29	TDD-B38(20M)	37850	1.58
	20525	0.29		38000	1.58
	20600	0.29		38150	1.58
FDD-B7(10M)	20850	1.58	TDD-B39(20M)	38350	0.66
	21100	1.58		38450	0.66
	21350	1.58		38550	0.66
FDD-B8(10M)	21500	0.75	TDD-B40(20M)	38750	1
	21625	0.75		39150	1
	21750	0.75		39550	1
FDD-B20(10M)	24200	0.29	TDD-B41(20M)	40340	1
	24300	0.29		40620	1
	24400	0.29		41140	1
WiFi	CH	Gain(dBi)	WIFI	CH	Gain(dBi)
wifi a (54M)	36	1.83	wifi B (11M)	1	2.5
	149	1.83		7	2.5
	165	1.83		13	2.5
GPS			BT	0	-0.5
	1	1.9		39	-0.5
				78	-0.5

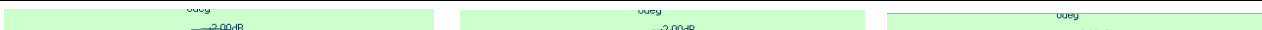
4. 3D Graphs

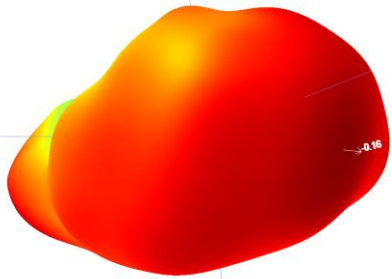
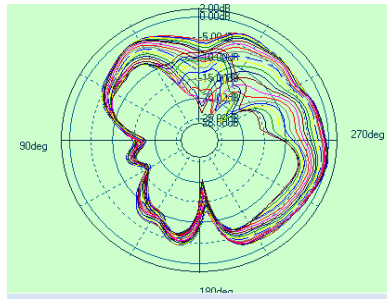
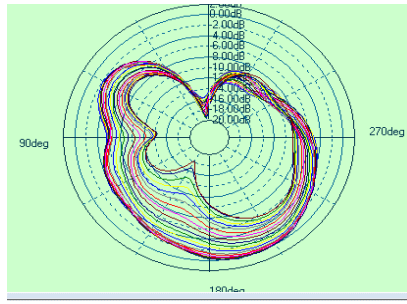
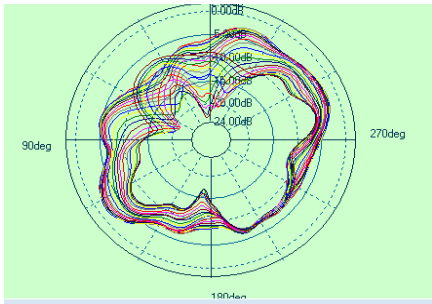


1700-1800M

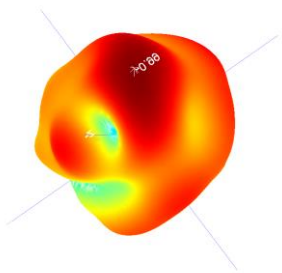
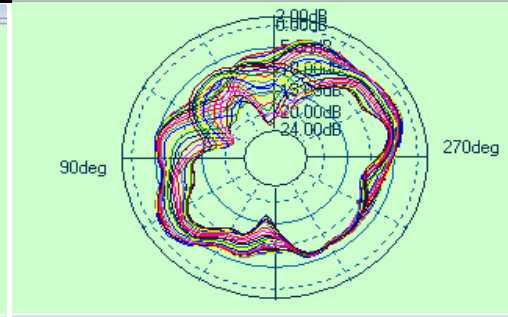
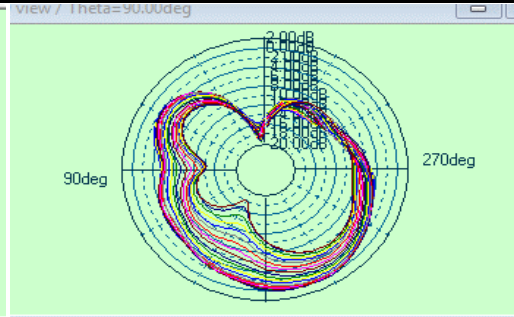
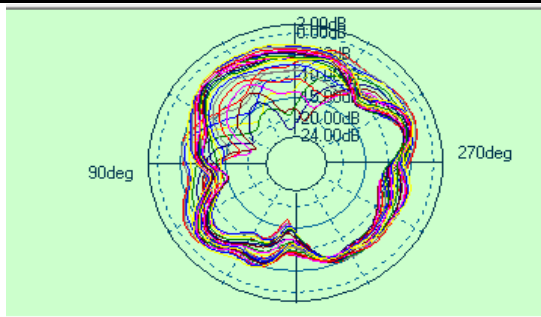


1850-1990MHz



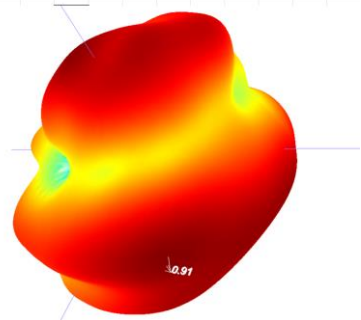
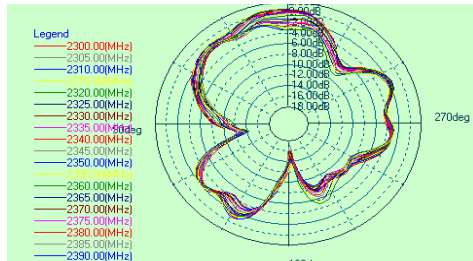
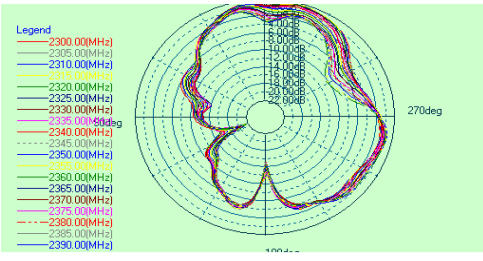
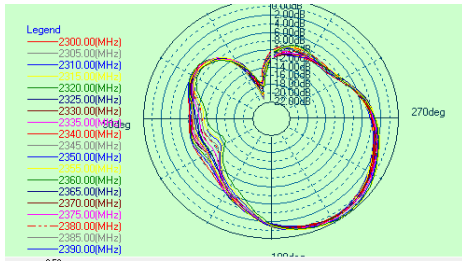


1920-2170MHz

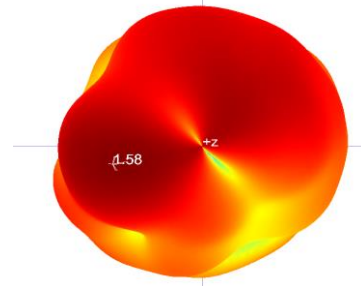
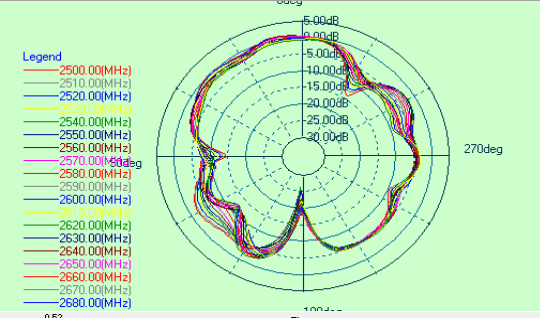
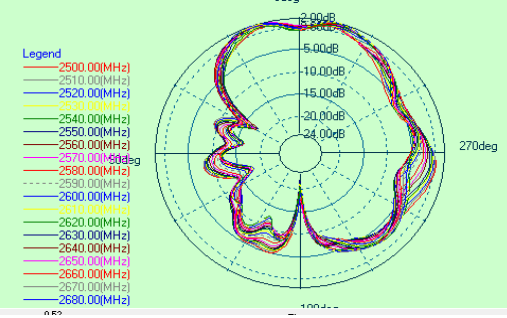
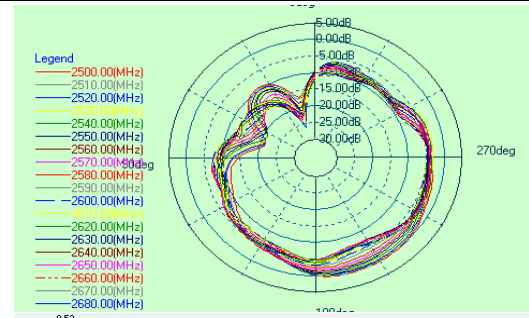


2300-2400MHz

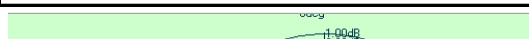


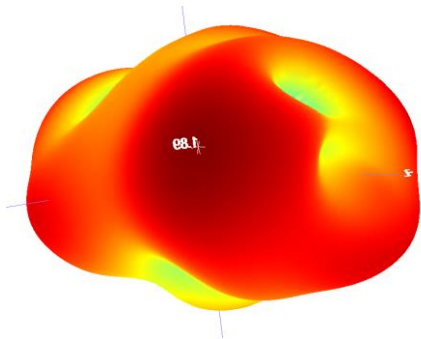
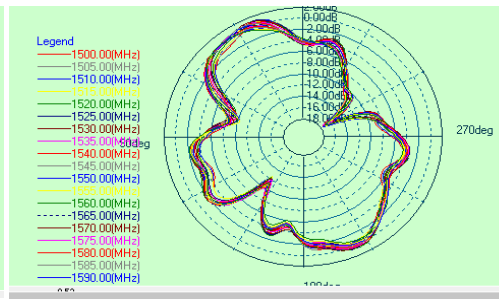
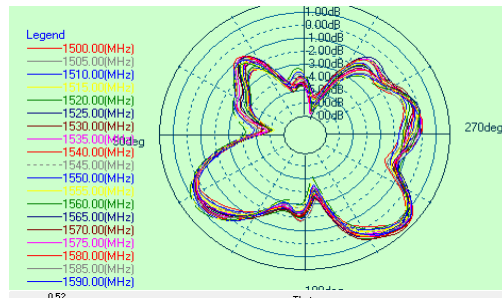
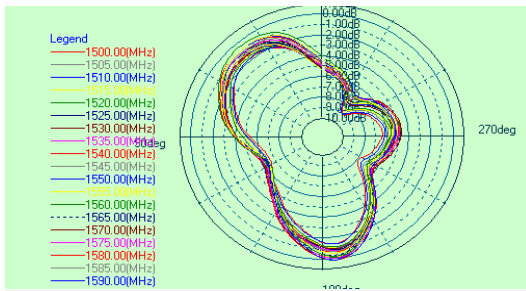


2500-2700MHz

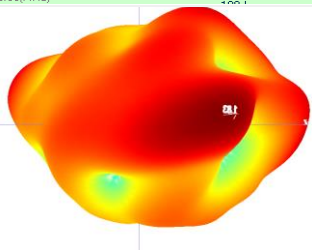
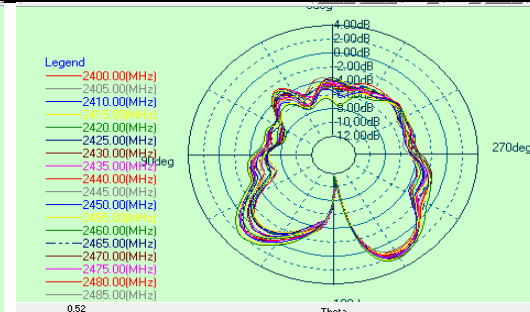
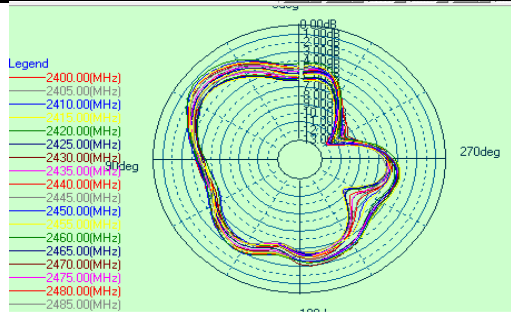
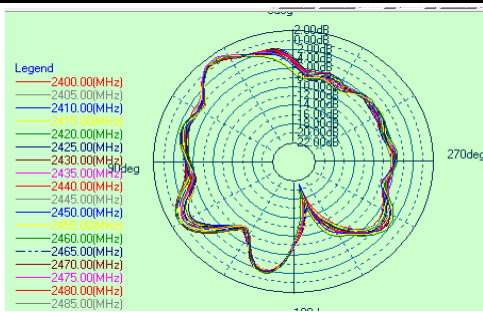


1575.42MHz

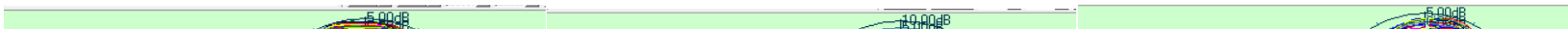


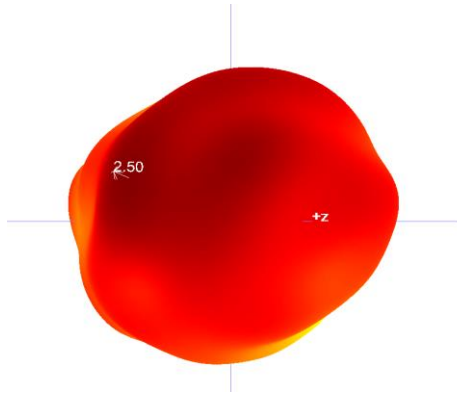
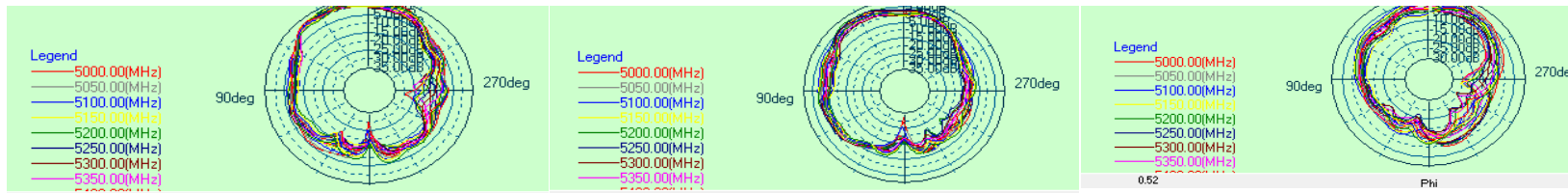


WiFi 2.4GHz/BT



5G WiFi



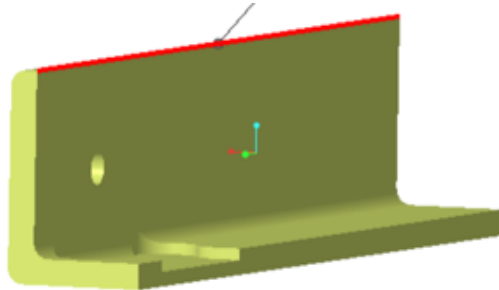


5. Antenna size

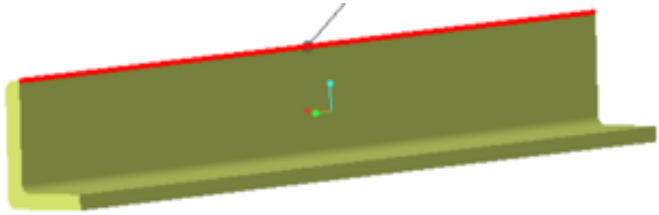
ANT3 LB DRX: 51*4.35*6.55mm



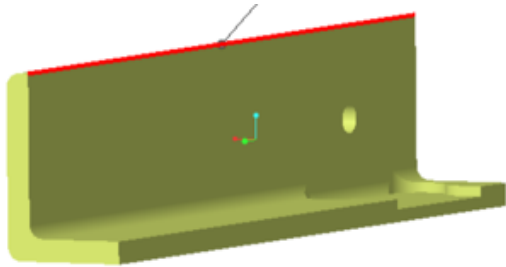
ANT2 MHB PTRX: 28.1*4.35*6.55mm



ANT1 LB PTRX: 53.1*4.35*6.55mm



ANT4 MHB DRX: 28.1*4.35*6.55mm



GPS&wifi (2.4g&5g): 51.1*4.35*6.55mm

