

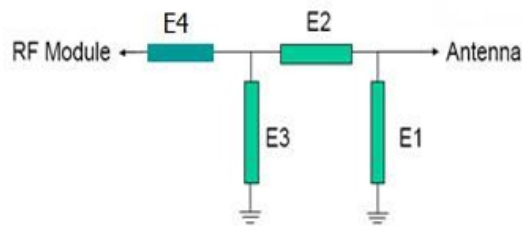
2.4G/5G WIFI/BT

Main antenna:

DK054U		
RF1	OR (Tags:C205)	GSM:900/1900 LTE-FDD:B1/B2/B7/B8 LTE_TDD:B40/B41 WCDMA:B1/B2/B8
RF2	10nH (Tags:C206)	FDD-LTE:B28A/28B/B12/B17
RF3	6.2nH (Tags:C201)	LTE-FDD:/B3/B4/B5/B19/B20/B26/B66 GSM:850/1800 WCDMA:B4/B5
RF4	9.1nH (Tags:C202)	LTE-FDD:B13

Main antenna:

0201 Spec		
Element	Value	PCB Tags
E1	18NH	L201
E2	0 Ω	C209
E3	NC	L202
E4	0 Ω	C210
E5	NC	R207
E6	0 Ω	R201
E7	0 Ω	R206

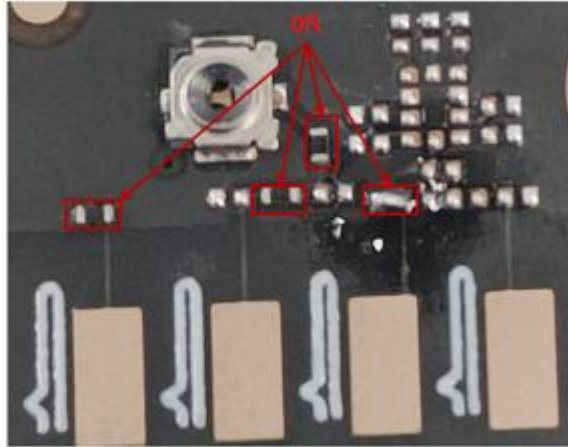
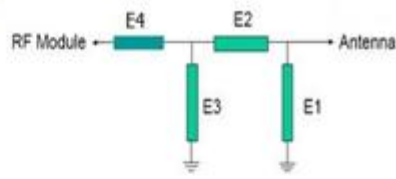




天线匹配电路

Diversity antenna:

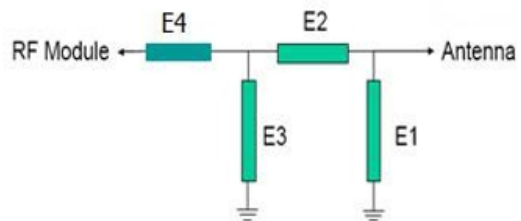
0201 Spec		
Element	Value	PCB Tags
E1	无	
E2	0 Ω	
E3	无	
E4	0 Ω	



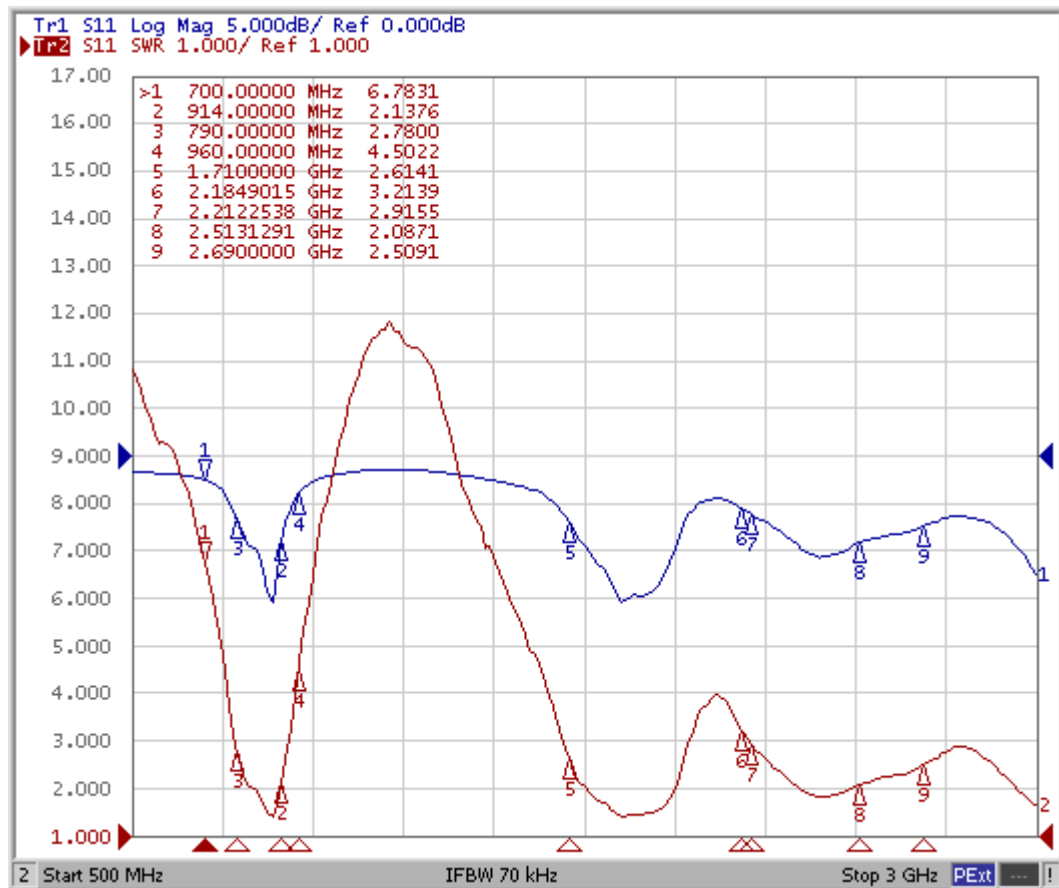
深圳市信必诺通讯科技有限公司

W&B&G antenna:

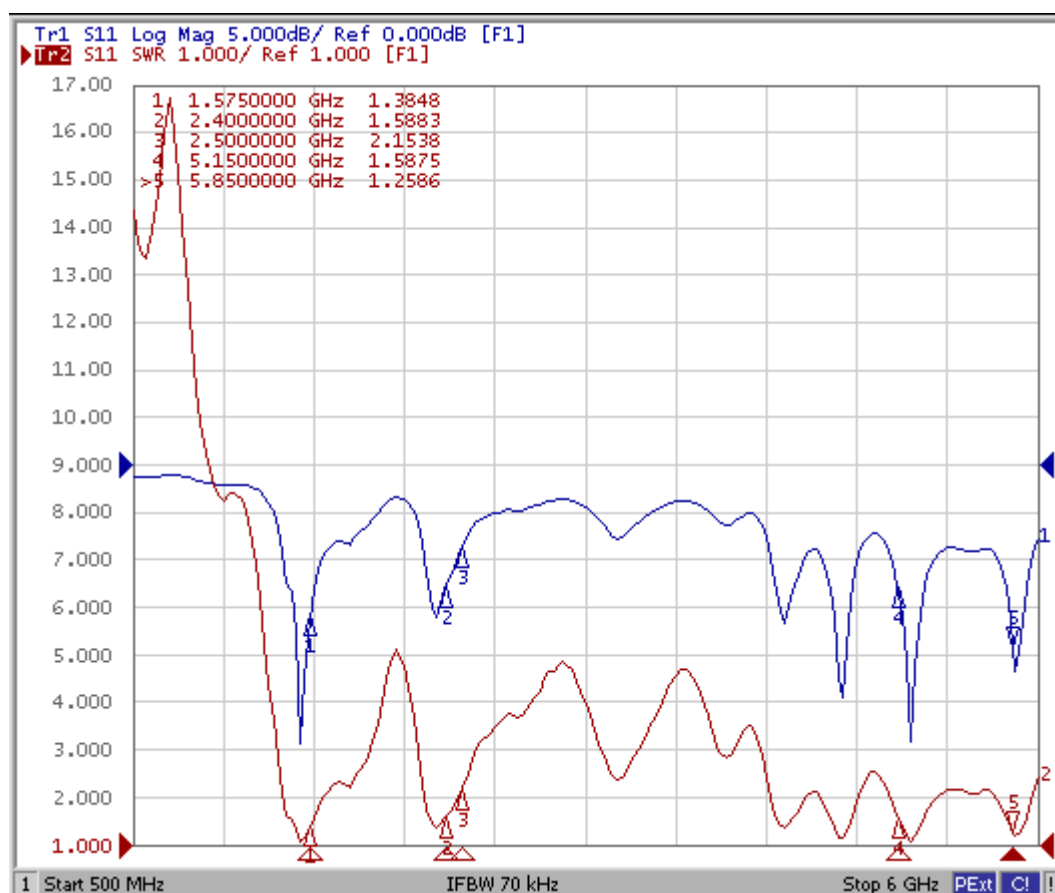
0201 Spec		
Element	Value	PCB Tags
E1	The match does not change	
E2		
E3		
E4		



Passive main antenna :



GPS/Wifi/BT antenna :



Diversity antenna:



Antenna gain:

Frequency (MHZ)	Average Gain(dBi)	Peak Gain(dBi)
GSM850	-7.81	-4.23
GSM900	-7.05	-3.63
DCS1800	-4.64	1.19
PCS1900	-4.58	1.24
WCDMA B1	-4.52	1.36
WCDMA B2	-4.38	1.45
WCDMA B4	-4.15	1.28
WCDMA B5	-7.61	-3.88
WCDMA B8	-7.25	-3.34
LTE B1	-5.04	1.41
LTE B2	-4.87	1.47
LTE B3	-4.59	1.23
LTE B4	-4.05	1.19
LTE B5	-7.52	-3.73
LTE B7	-3.46	1.45
LTE B8	-7.17	-2.99
LTE B12	-8.42	-5.47
LTE B13	-8.57	-5.21
LTE B17	-8.04	-5.86
LTE B19	-7.03	-4.39
LTE B20	-7.17	-4.15

LTE B26	-6.96	-3.57
LTE B28	-8.63	-5.09
LTE B66	-4.63	1.28
LTE B40	-4.11	1.73
LTE B41	-4.35	1.58
GPS	-3.92	1.56
WIFI 2.4G/BT	-4.23	1.42
WIFI 5.8G	-5.85	2.64

Main antenna OTA:

Band	Channel	TRP	TIS
GSM 850	128	23.0	
	190	22.9	
	251	23.1	-100.7
EGSM900	1	24.8	
	62	25.1	
	124	25.2	-99.5
DCS1800	512	24.1	
	698	23.6	
	885	23.1	-101.6
PCS1900	512	24.9	
	661	25.0	
	810	25.1	-103.3
WCDMA Band 1	10562	15.9	
	10700	15.0	
	10838	14.5	-102.9
WCDMA Band 2	9662	16.4	
	9800	16.5	
	9938	16.6	-103.1
WCDMA Band 4	1538	16.0	
	1675	16.2	
	1736	16.1	-103.5
WCDMA Band 5	4357	15.6	
	4400	15.7	
	4458	16.0	-102.8
WCDMA Band 8	2937	15.5	
	3013	15.8	

	3088	15.9	-102.4
LTE Band	Channel	TRP	TIS
B1	50	18.1	
	300	17.6	
	550	17.0	-93.1
B2	650	18.6	
	900	18.7	
	1150	17.8	-92.7
B3	1250	16.1	
	1575	17.5	
	1900	18.3	-92.7
B4	2000	17.2	
	2175	17.7	
	2350	17.9	-93.5
B5	2450	16.0	
	2525	15.6	
	2600	16.0	-92.0
B7	2800	16.1	
	3100	16.0	
	3400	15.0	-93.7
B8	3500	16.5	
	3625	16.1	
	3750	15.8	-89.4
B12	5060	15.7	
	5095	15.8	
	5130	16.8	-91.2
B13			
	5230	16.9	-92.2

B17	5780	15.4	
	5790	15.9	
	5800	16.1	-90.0
B19	6050	15.3	
	6075	15.1	
	6100	15.2	-92.3
B20	6200	15.8	
	6300	15.9	
	6400	15.0	-92.0
B26	8740	16.8	
	8865	15.6	
	8990	16.8	-91.6
B28A	9310	16.2	
	9360	15.6	
	9460	15.4	-91.0
B28B	9410	15.8	
	9510	15.6	
	9560	16.3	-90.1
B40	38750	17.9	
	39150	18.7	
	39550	18.5	-92.5
B41			
	40620	14.0	-90.7
B66	66486	16.3	
	66886	17.0	
	67286	17.4	-91.8

WIFI OTA:

WIFI OTA				
	Band	Channel	TRP	TIS
2.4G	b (11M)	1	12.8	
		6	13.7	
		13	15.2	-83.8
	g (54M)	1	11.7	
		6	12.8	
		13	14.9	-72.6
	n (MCS7)	1	11.5	
		6	12.9	
		13	14.8	-67.4
5G	a (54M)	36	11.5	
		56	11.6	
		165	10.8	-71.6
	n (MCS7)	36	10.7	
		56	10.8	
		165	9.9	-66.5
	AC(MCS7)	36	10.6	
		56	10.8	
		165	9.8	-66.3

GPS Test:

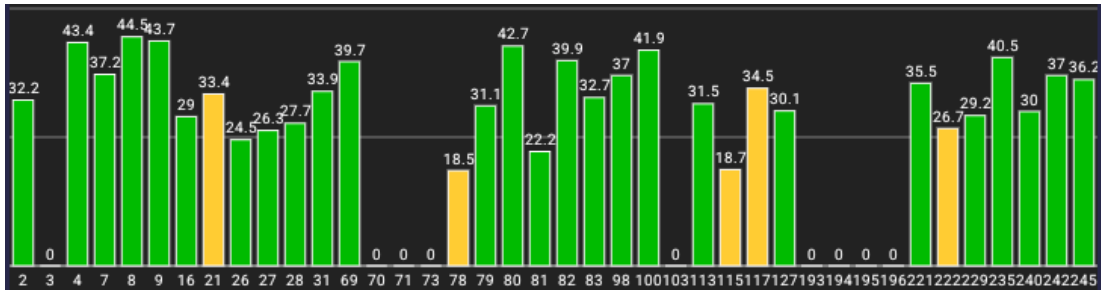
Measured site:Ping'an Rd

Weather:Sunny

Max S/N :44.5

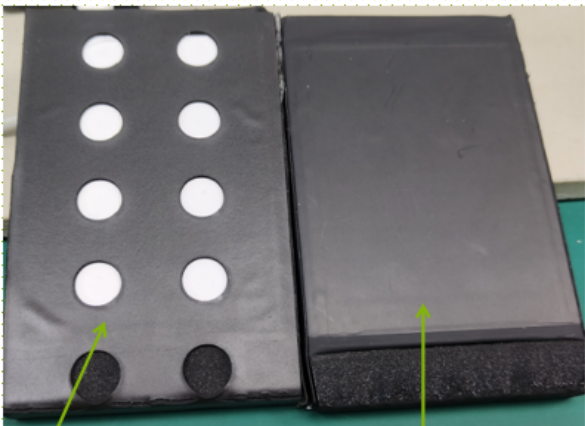
Stars:31

Positioning time:46s



NFC Test:

NFC Reading distance(mm)	
卡1	46
卡2	49
卡3	36
卡4	18

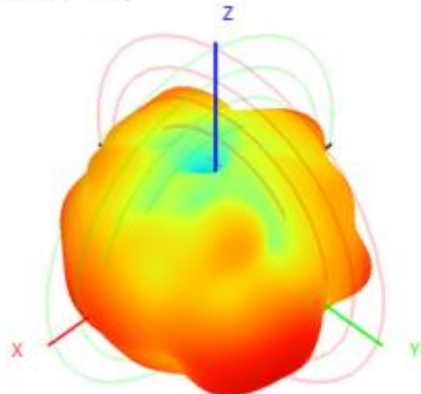


The reading distance of the black foam on the back of the battery is normal.

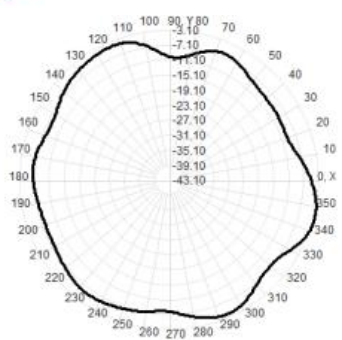
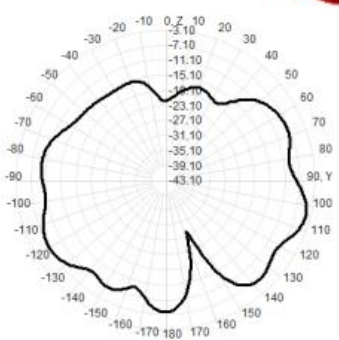
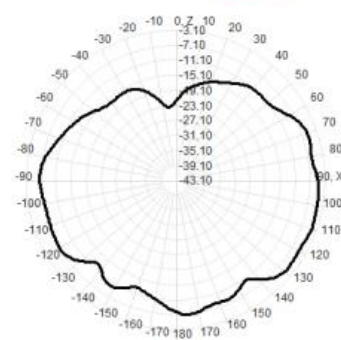
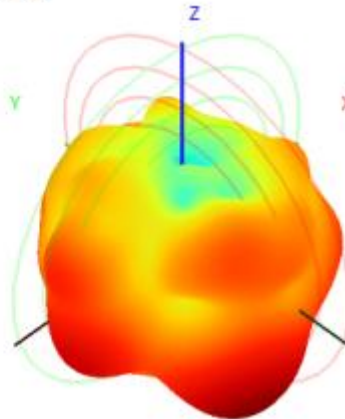
The reading distance of the card without black foam on the back of the battery is abnormal.

3D Pattern:

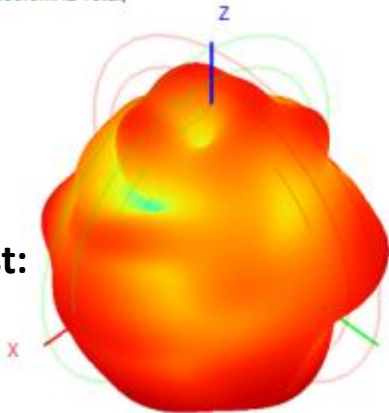
750.0MHz Total,



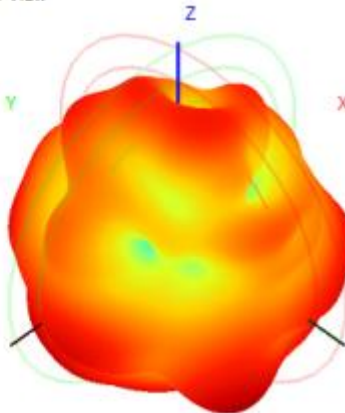
Back View



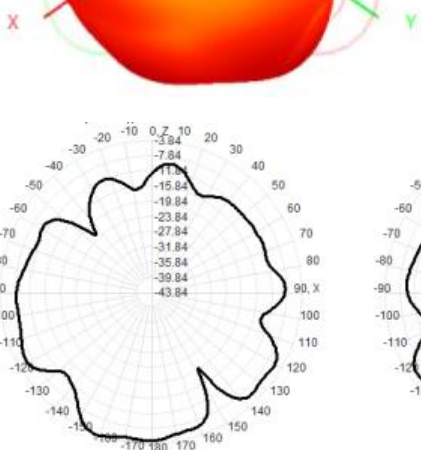
750.0MHz Total,



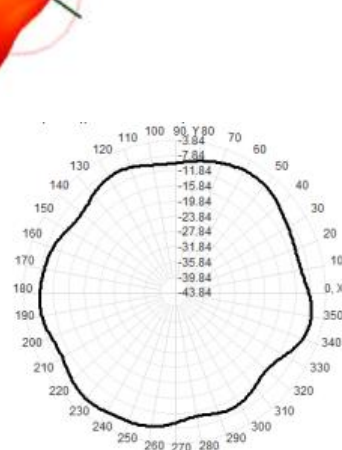
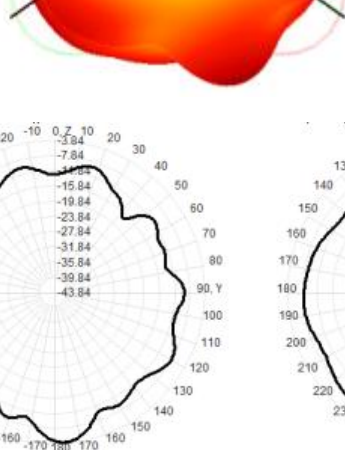
Back View



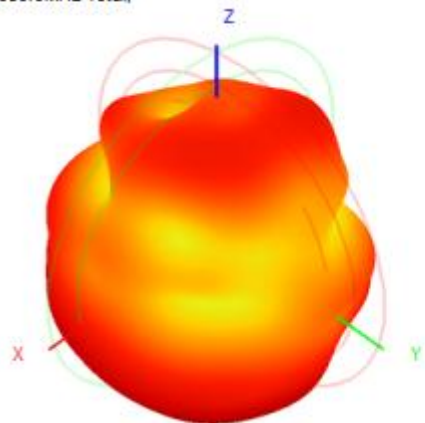
GPS Test:



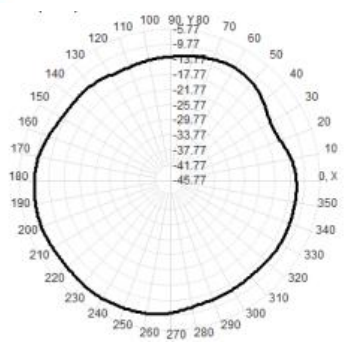
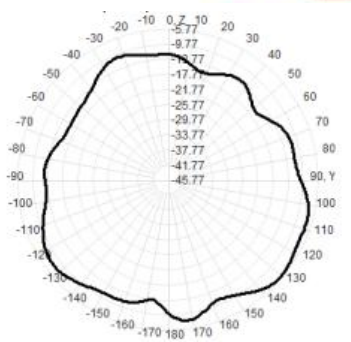
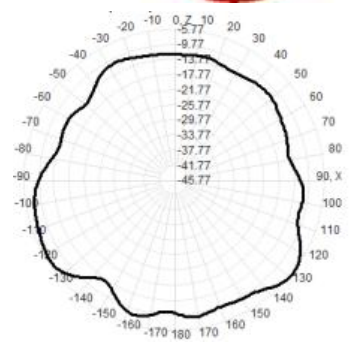
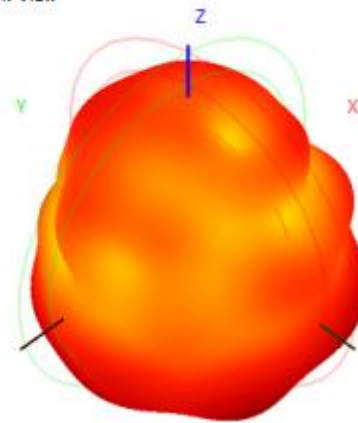
Back View



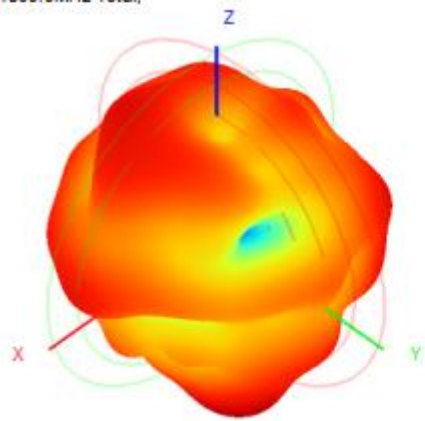
950.0MHz Total,



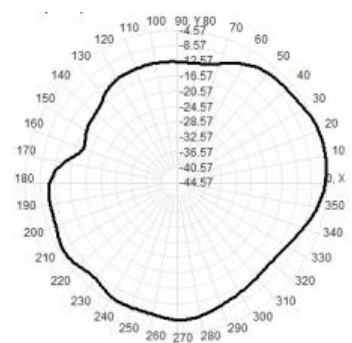
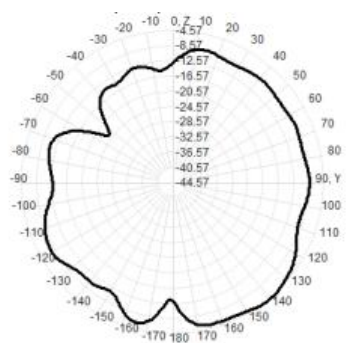
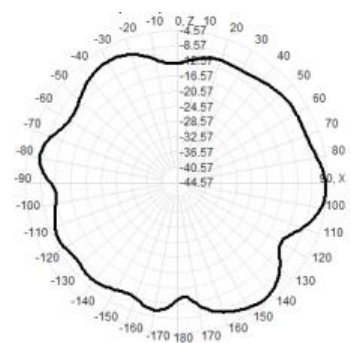
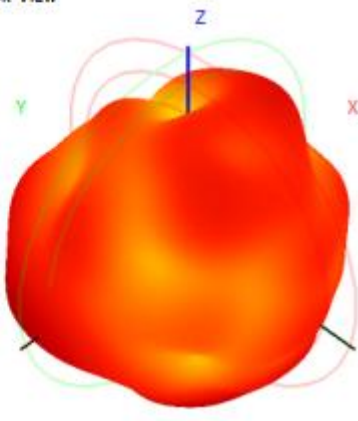
Back View



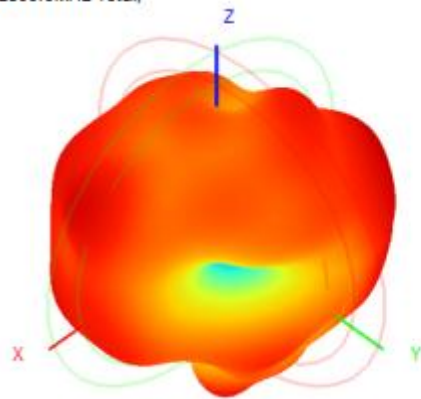
1800.0MHz Total,



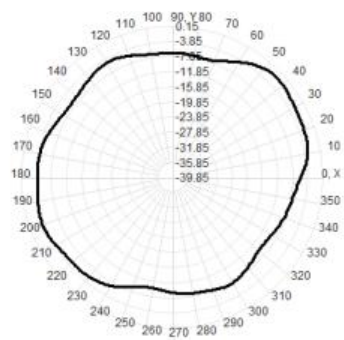
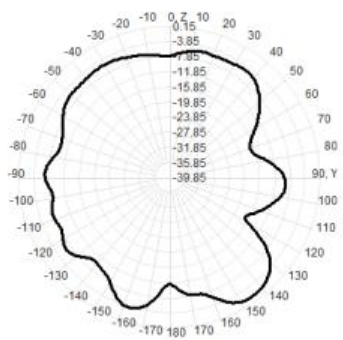
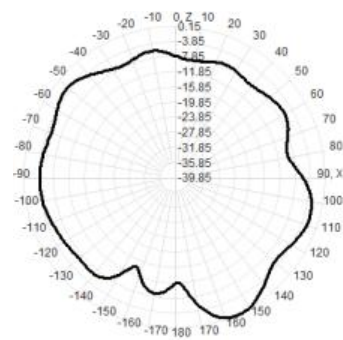
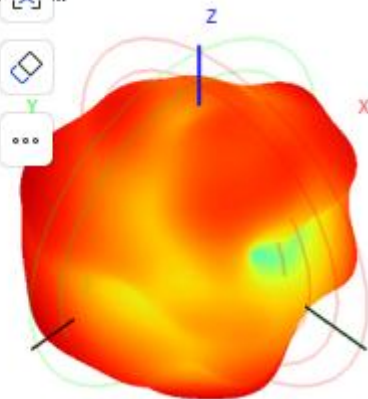
Back View



2300.0MHz Total,

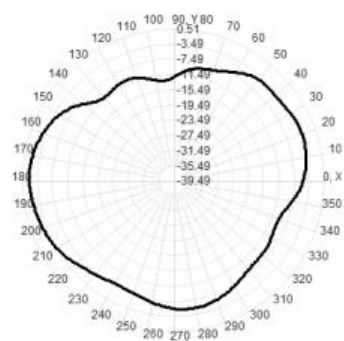
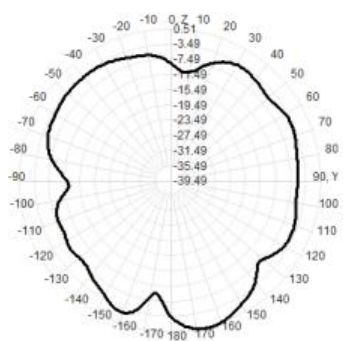
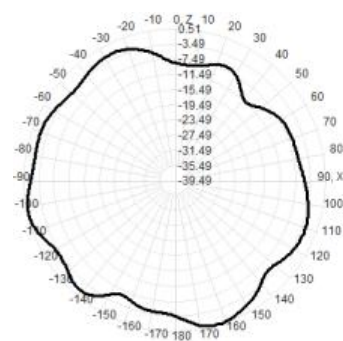
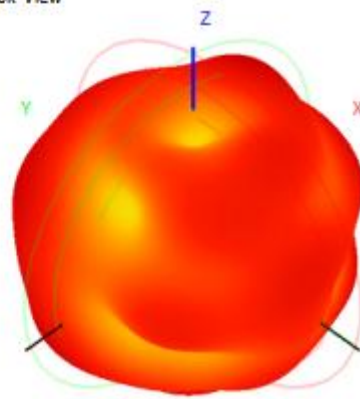
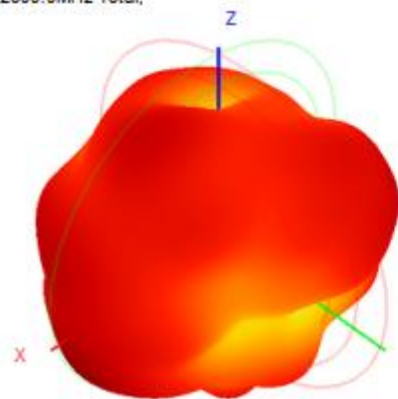


Back View

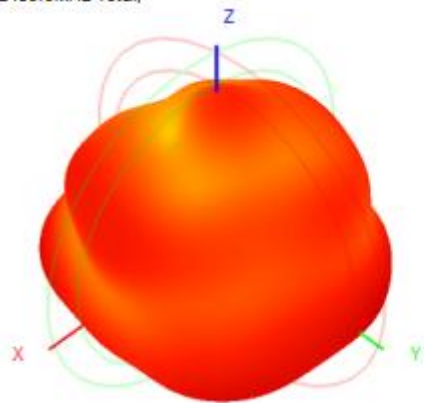


2600.0MHz Total,

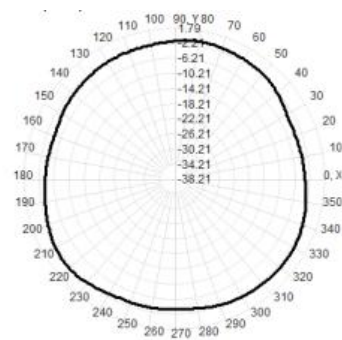
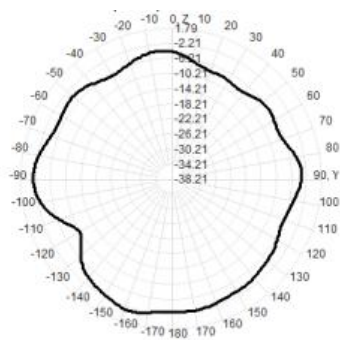
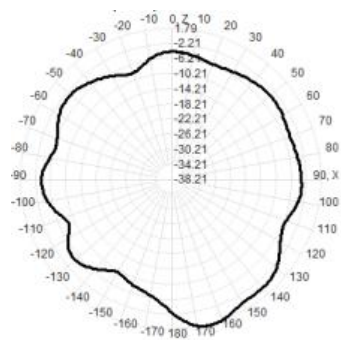
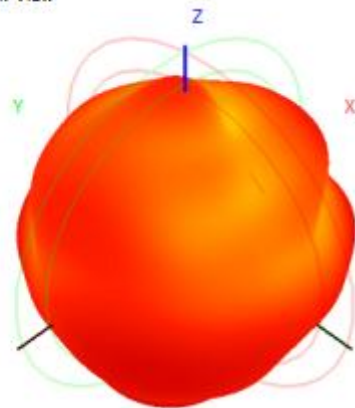
Back View



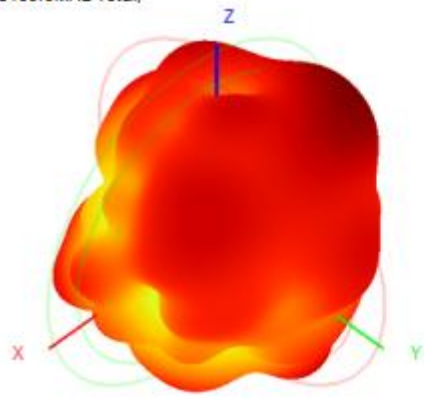
2450.0MHz Total,



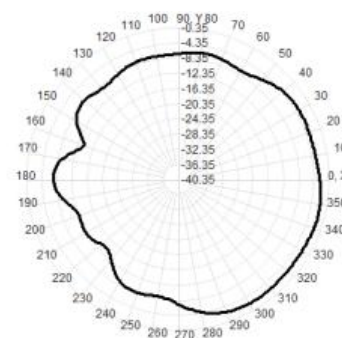
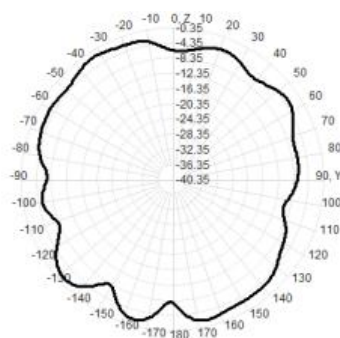
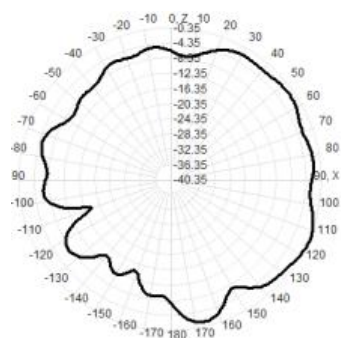
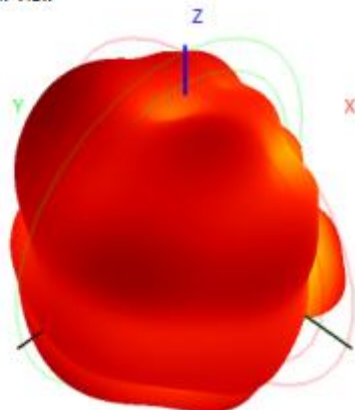
Back View



5160.0MHz Total,

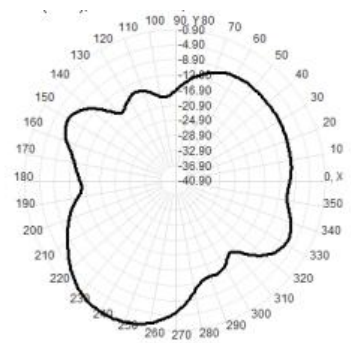
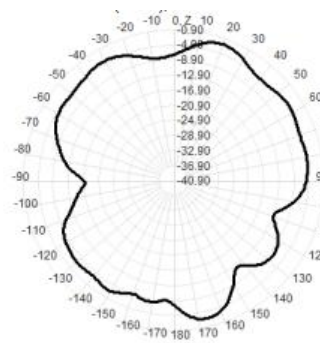
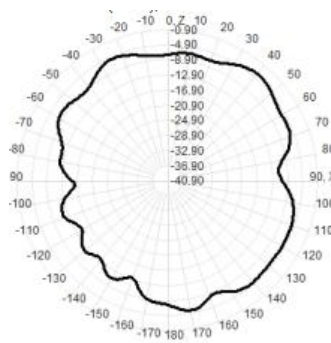
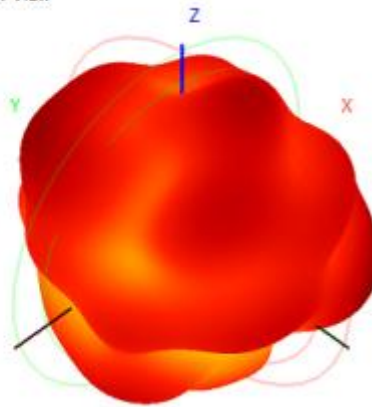
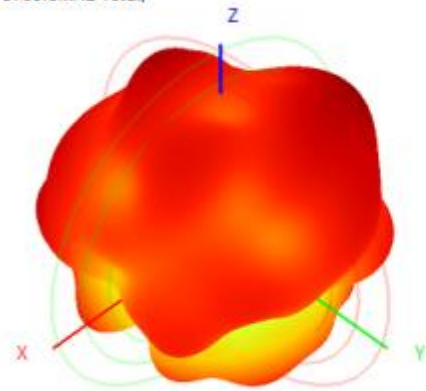


Back View



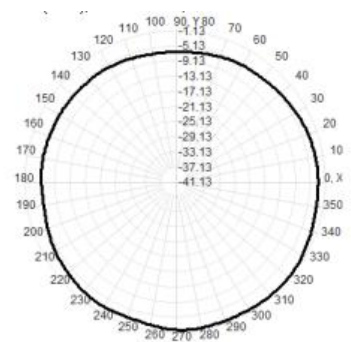
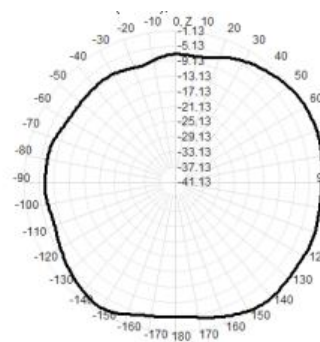
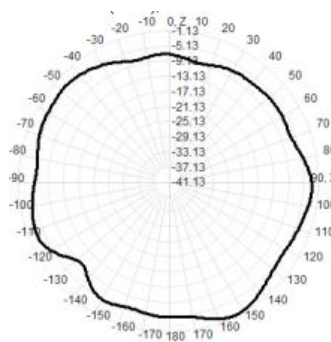
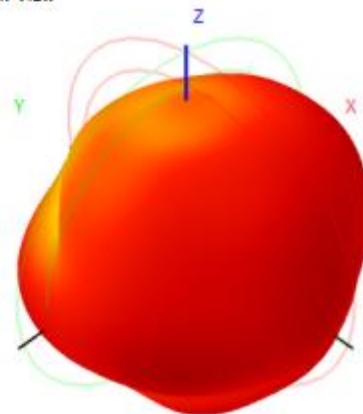
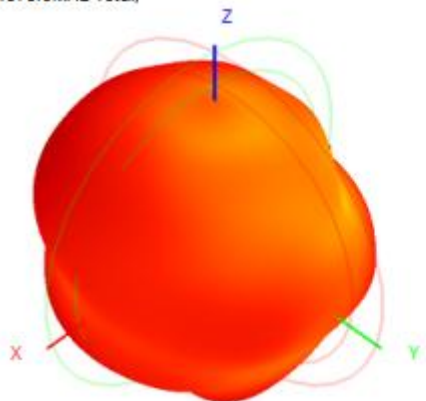
5760.0MHz Total,

Back View

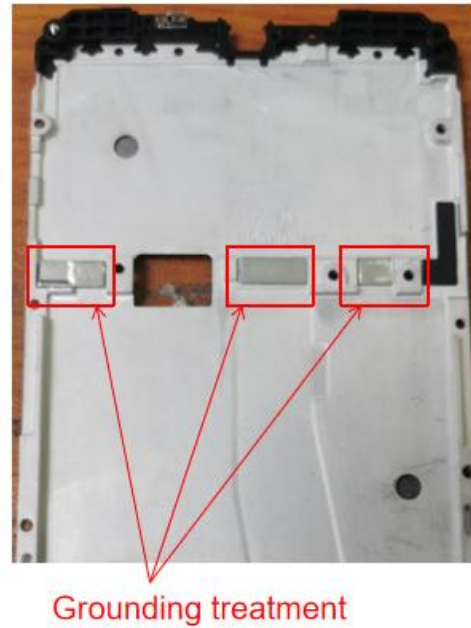
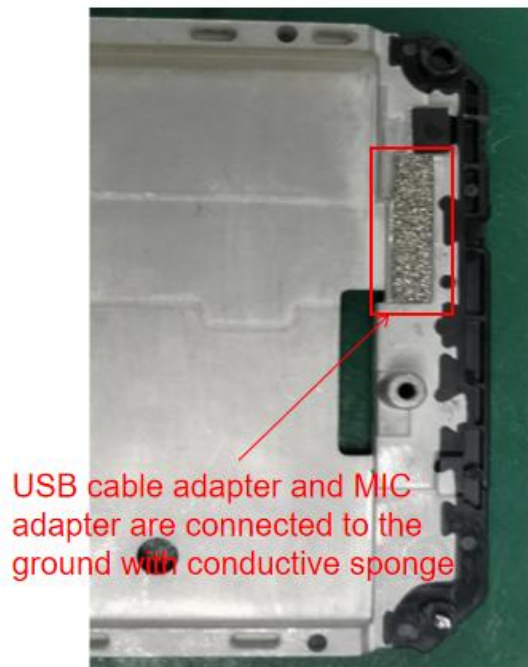


1575.0MHz Total,

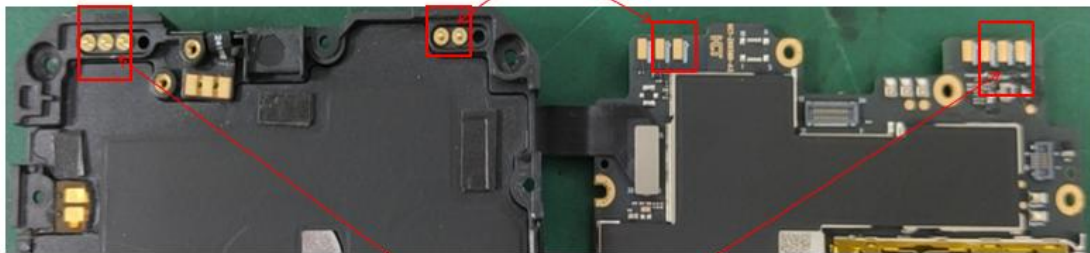
Back View

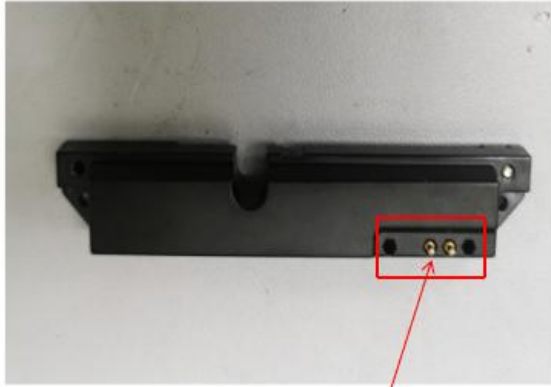


Environmental treatment

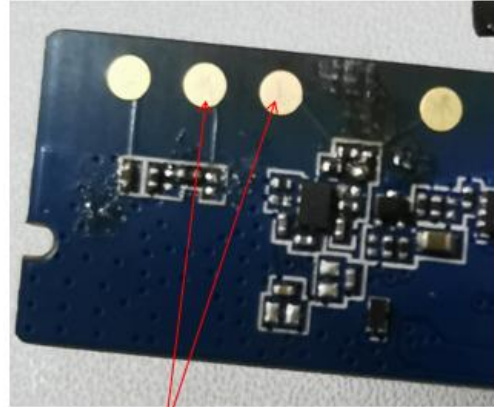


Three-in-one antenna shrapnel, such as inside the red frame.





The main antenna feeds the shrapnel, as in the red box.



These two feeds are currently used, and the redundant sites are reserved for the first time.



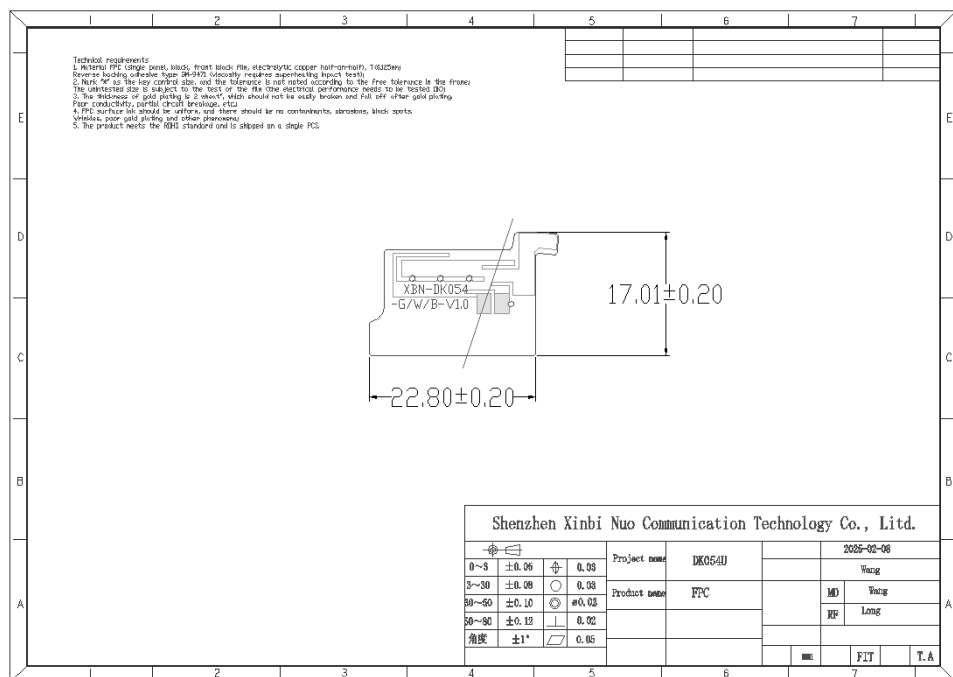
The speaker is grounded with a conductive sponge and the motherboard.

Increase the grounding of the conductive sponge with the whole machine.

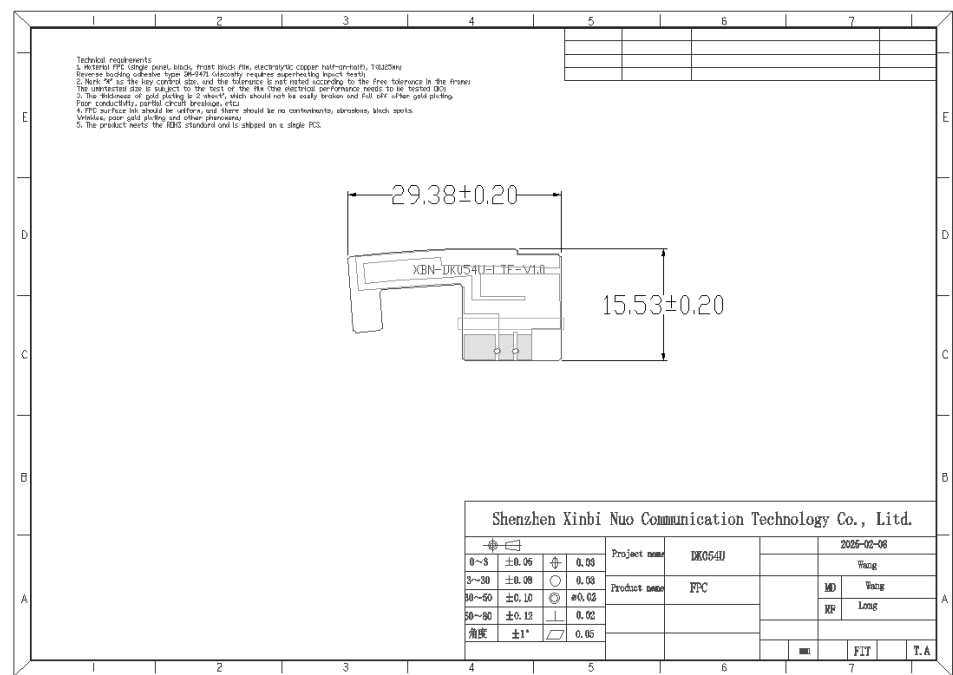


Conductor for display cable arrangement
Wrap the electric cloth to the ground.

GWB antenna unit:mm



AUX antenna unit:mm



Main antenna unit:mm

