

Antenna Report



FCC ID:YHLBLU2KW

Heyuan Xunwei Communication Technology Co., Ltd

RF:Zhong YiMing

Date:2025.08.22

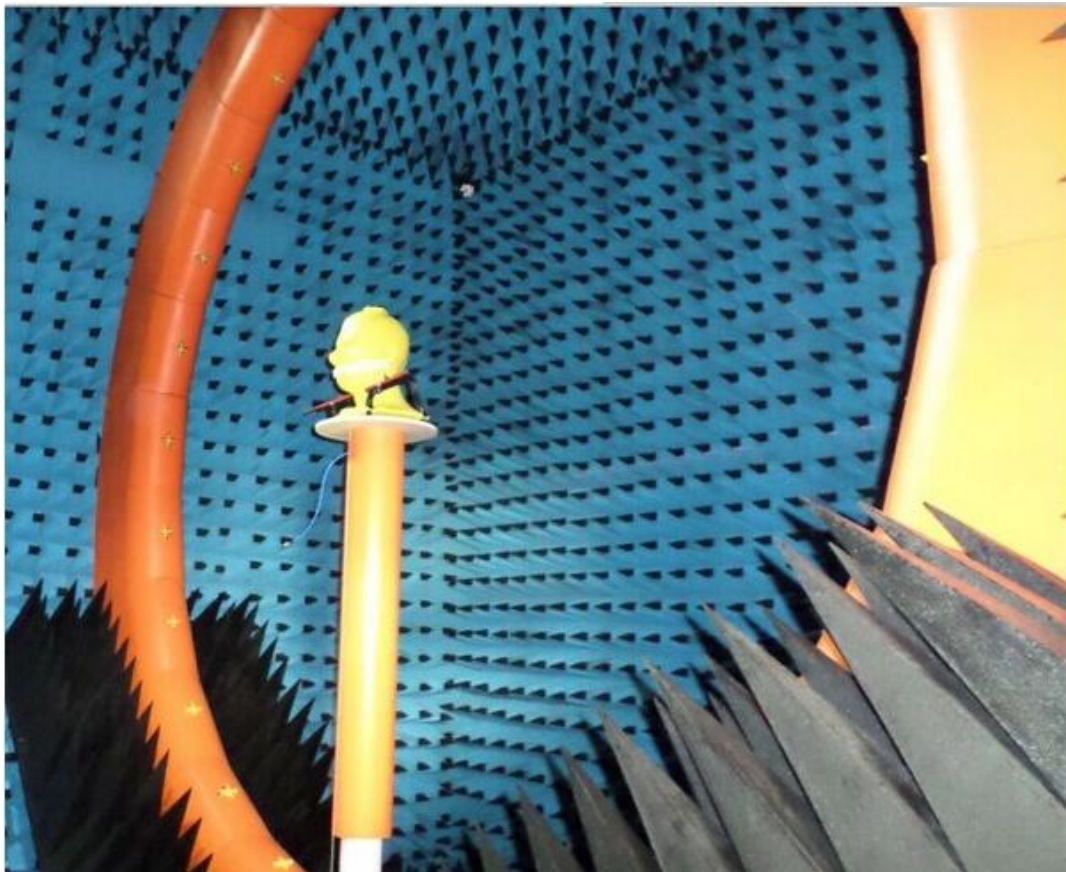
Office address: A316, Bldg. A, Languang Technology Bldg., No. 5 Xinx
Rd. W, Nanshan Dist., Shenzhen,

Test equipment

Wireless communications test set: CMW500

Network Analyzer: Agilent 5071B

Anechoic Chamber : SATIMO SG24

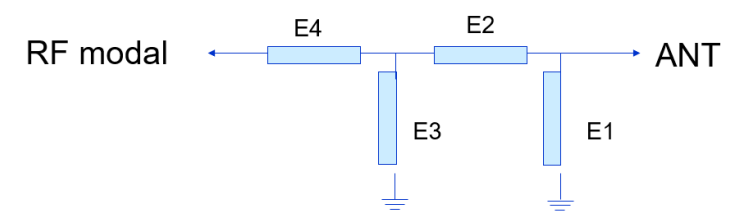


Antenna information

Customer	Boat of wealth
Antenna model	FPC
Antenna type	PIFA
Antenna band	GSM 850/1900 WCDMA B2/B4/B5 LTE-B2/B4/B5/B7/B12/B17/B66/B71

frequency range (MHz)	703–960	1710–2170	2490–2690
VSWR	<3.5	<3.5	<3.5

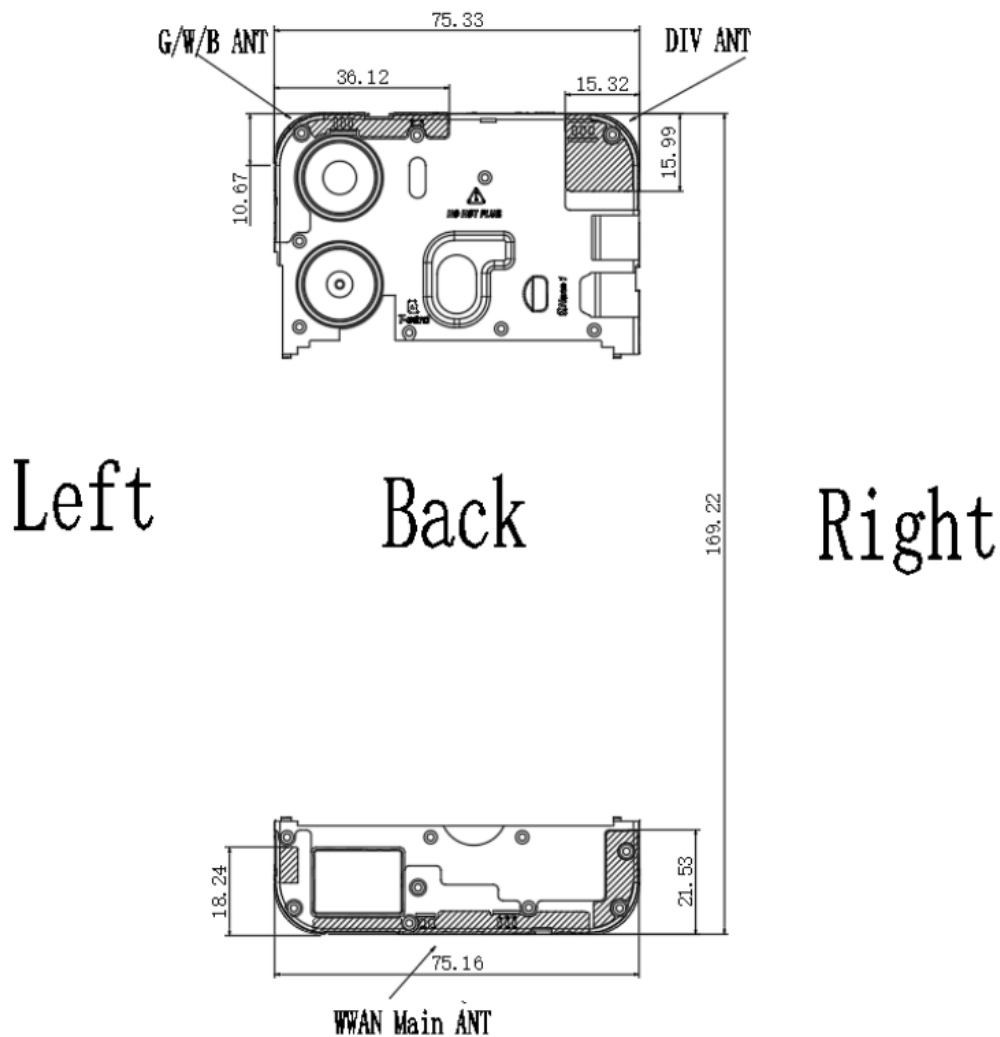
Matching circuit (No modification) :



Element	Value
E1	
E2	
E3	
E4	

Antenna Location

TOP



WWAN Main ANT

WWAN Main ANT:LTE B5/B12/B17/B28AB/B71+WCDMA B5/B8+GSM B5/B8 RX&TX

DIV ANT:LTE B2/B3/B4/B7/B66+WCDMA B1/B2/B4+GSM B2/B3 RX&TX

All of Implementation antenna

Main antenna(Antenna Label:A):

LTE B5/B12/B17/B28AB/B71 RX&TX / B2/B3/B4/B7/B66 RX

WCDMA B5/B8 RX&TX / B1/B2/B4 RX

GSM B5/B8 RX&TX / B2/B3/ RX

DIV antenna(Antenna Label:B):

LTE B5/B12/B17/B28AB/B71 RX / B2/B3/B4/B7/B66 RX&TX

WCDMA B5/B8 RX / B1/B2/B4 RX&TX

GSM B5/B8 RX / B2/B3/ RX&TX

WiFi/BT 2.4~2.5G/2412MHz~2472MHz& GPS: 1575.42 MHz ;

Antenna Max. Peak Gain:

EGSM900:-2.14dBi

GSM850: -2.12dBi

DCS1800: -0.83dBi

PCS1900: -0.55dBi

WCDMA2100: -0.87dBi

WCDMA1900: -0.52dBi

WCDMA850: -2.25dBi

WCDMA1700: -0.62dbi

WCDMA900: -2.05dbi

LTE-B2: -0.62dBi

LTE-B3: -0.71dBi

LTE-B4: -0.74dBi

LTE-B5: -2.29dBi

LTE-B12: -3.01dbi

LTE-B17: -2.97dbi

LTE-B28AB: -1.49dBi

LTE-B7: - 0.71dBi

LTE-B66: -0.64dBi

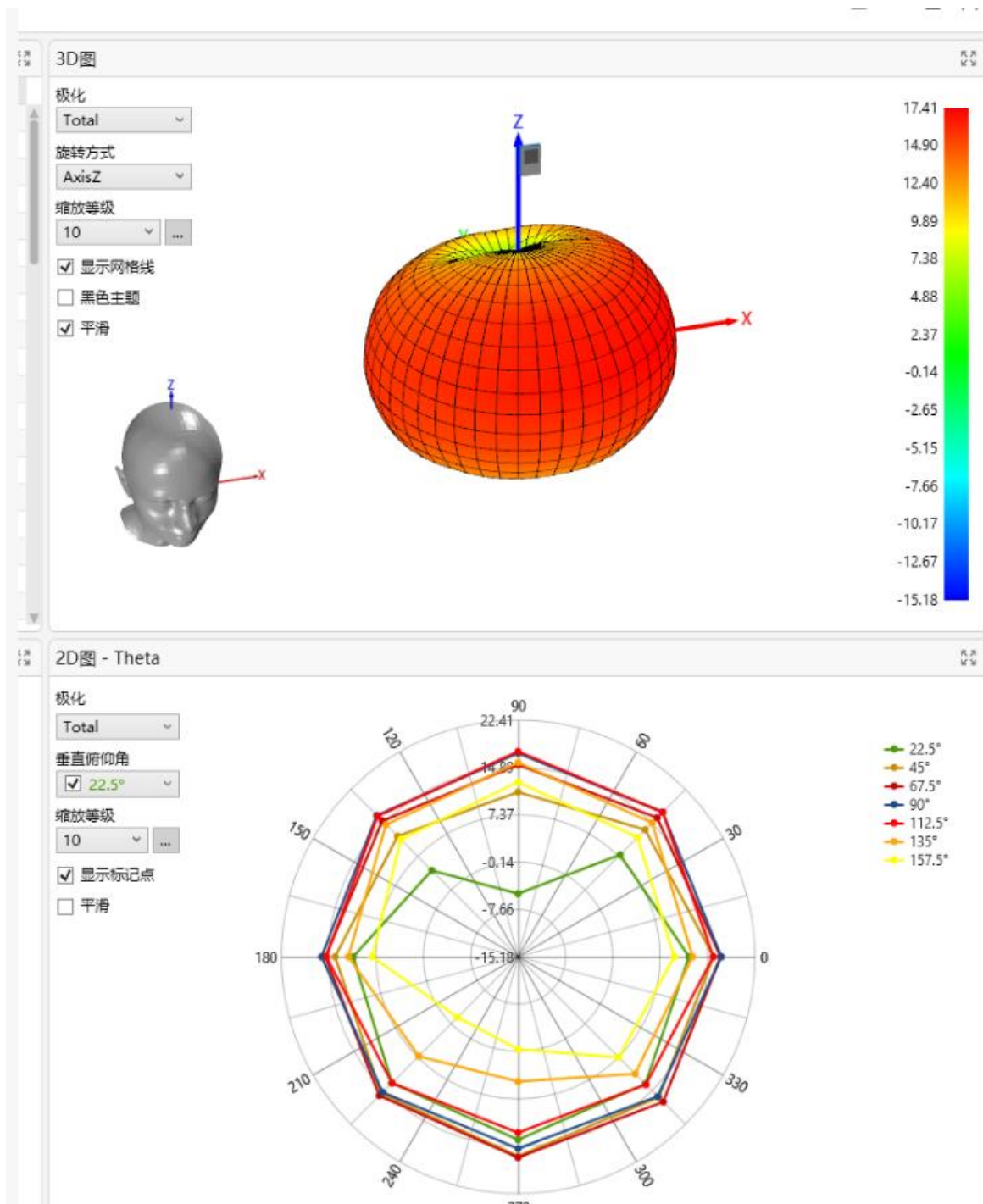
LTE-B71 :-3.36dbi

WIFI/BT: -0.65dBi

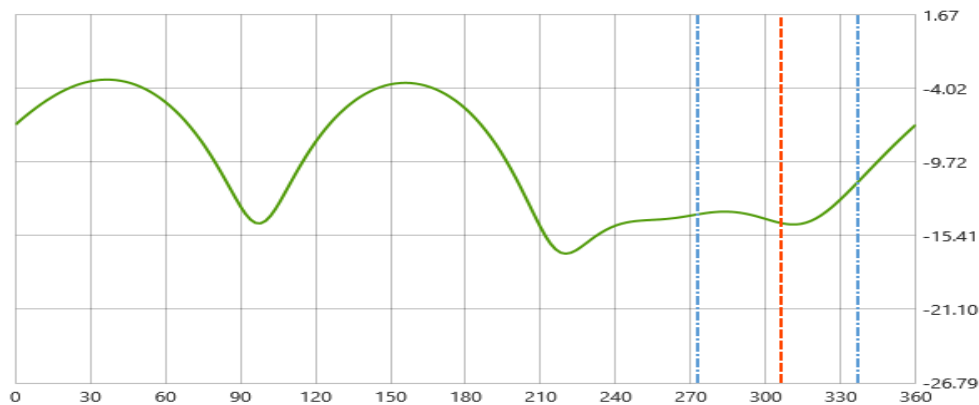
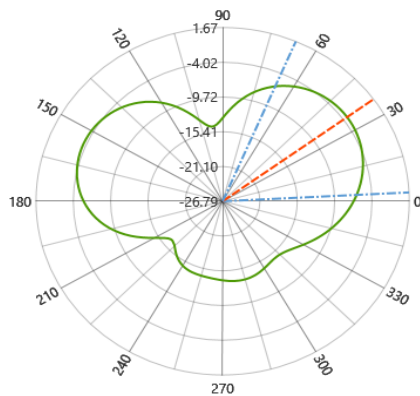
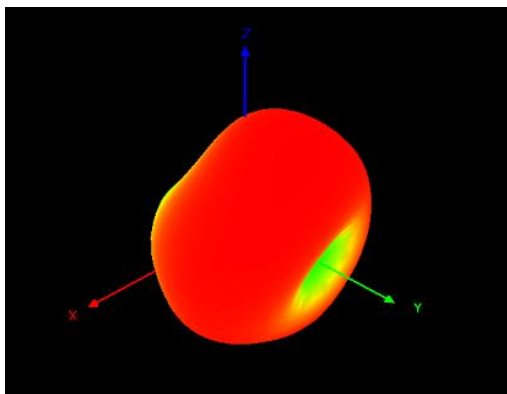
GPS: -0.79dBi

3. Antenna Pattern

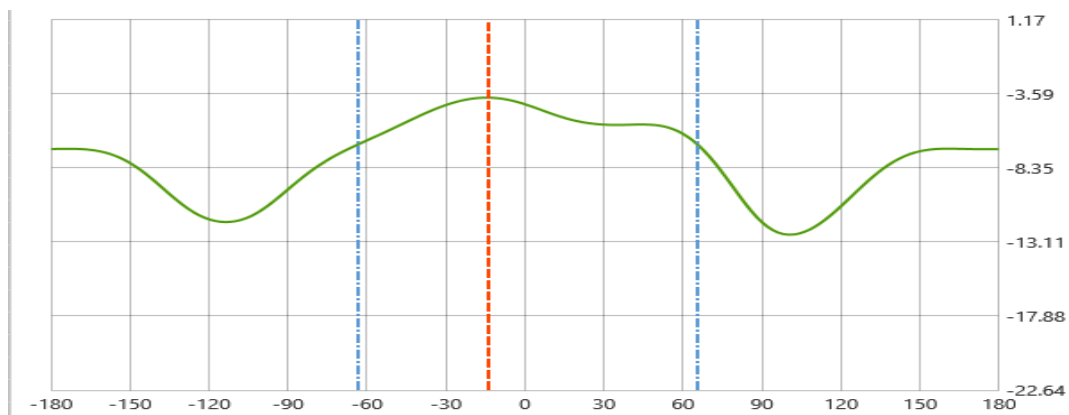
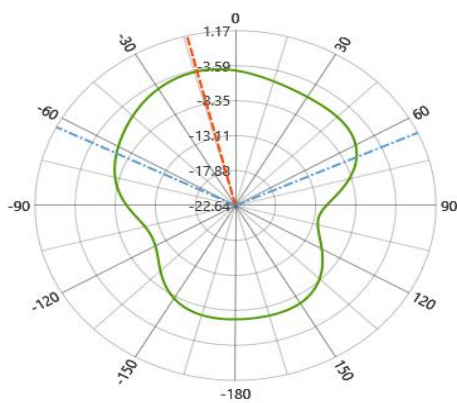
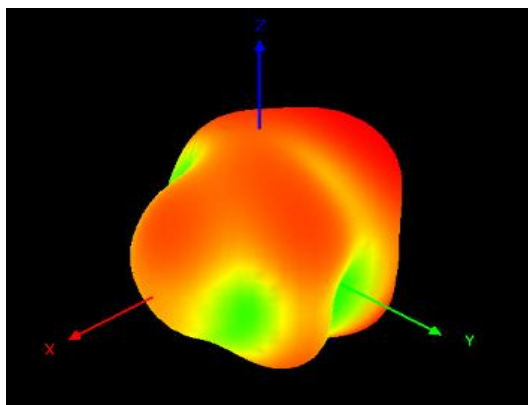
600MHZ~700MHZ



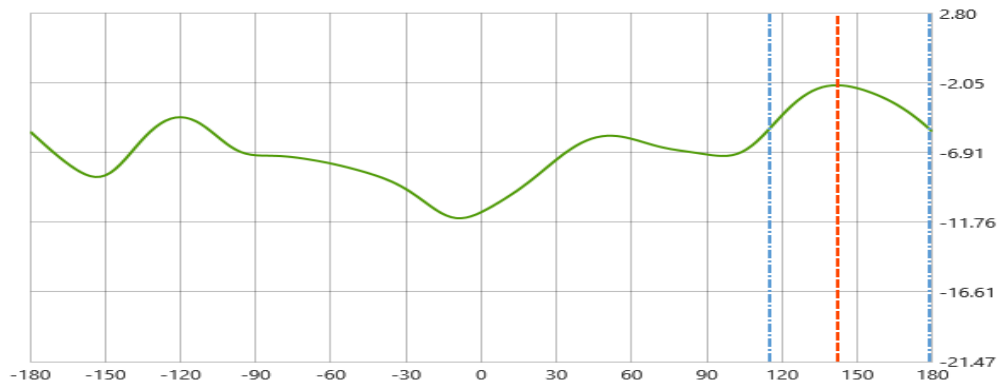
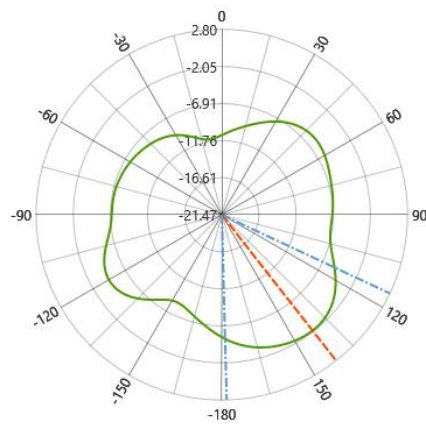
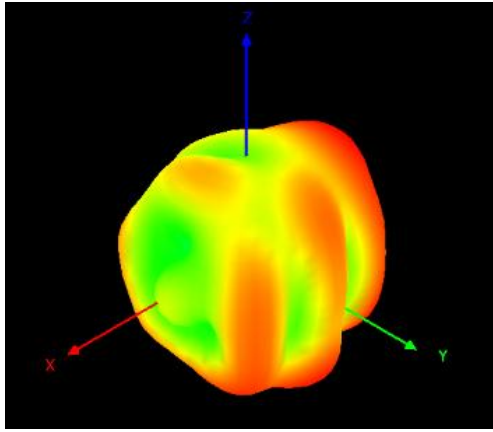
703MHZ~960MHZ



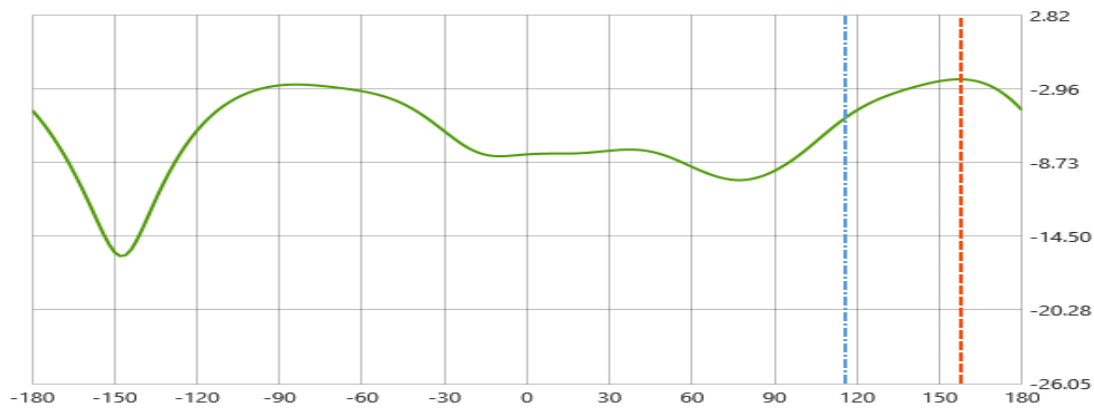
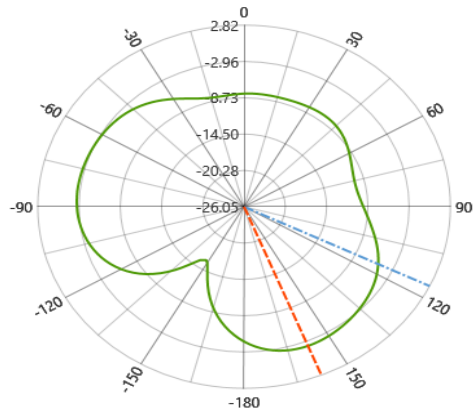
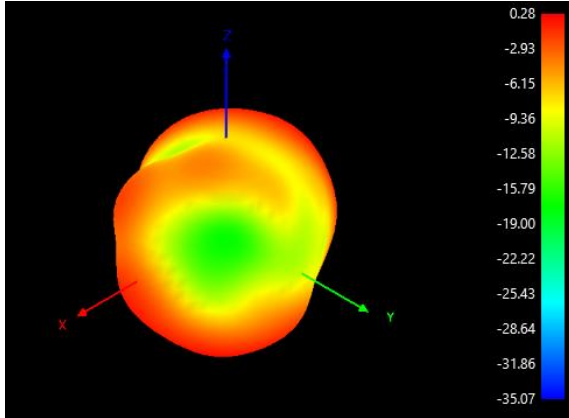
1710MHZ~2170MHZ



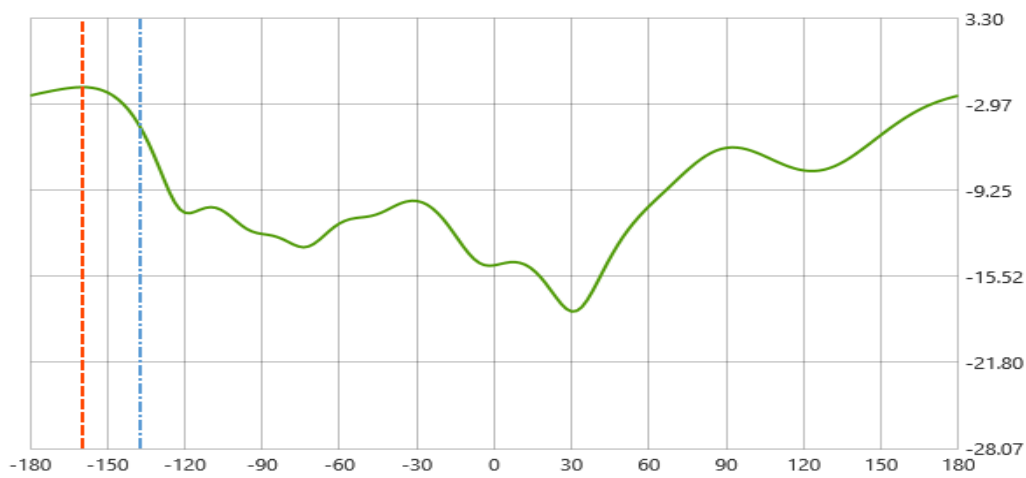
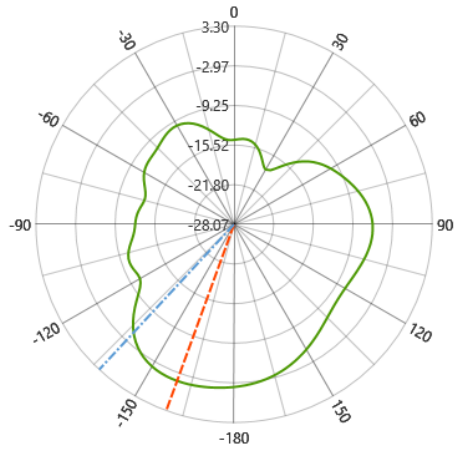
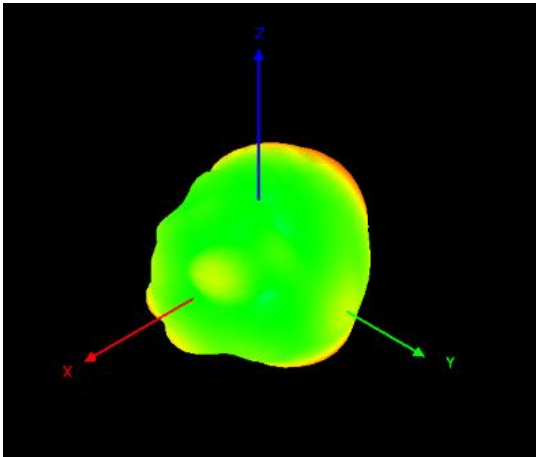
2500MHZ~2700MHZ



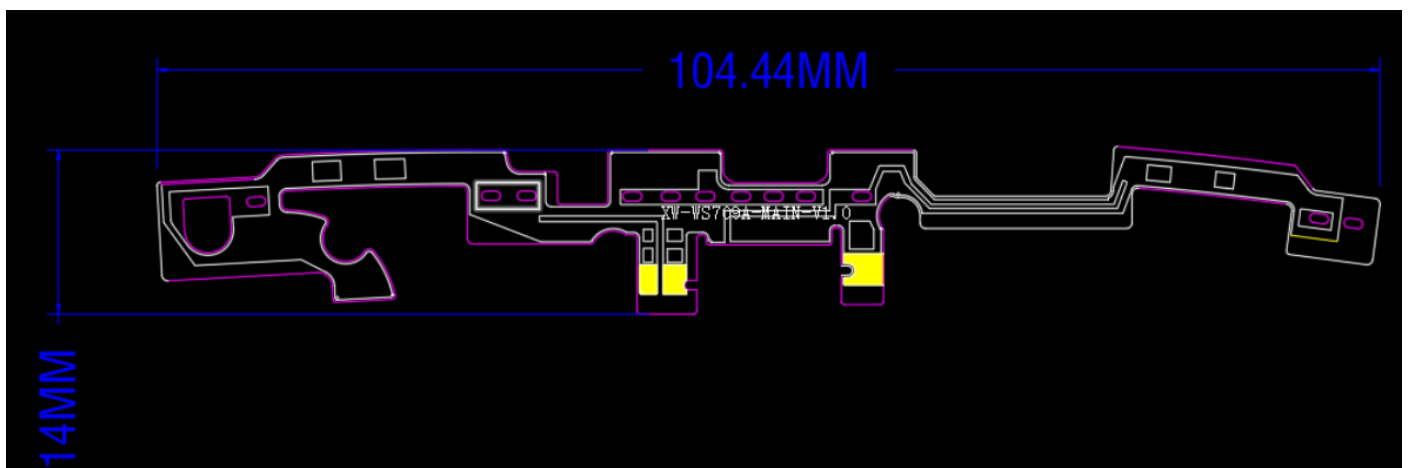
1550MHZ~1600MHZ (GPS)



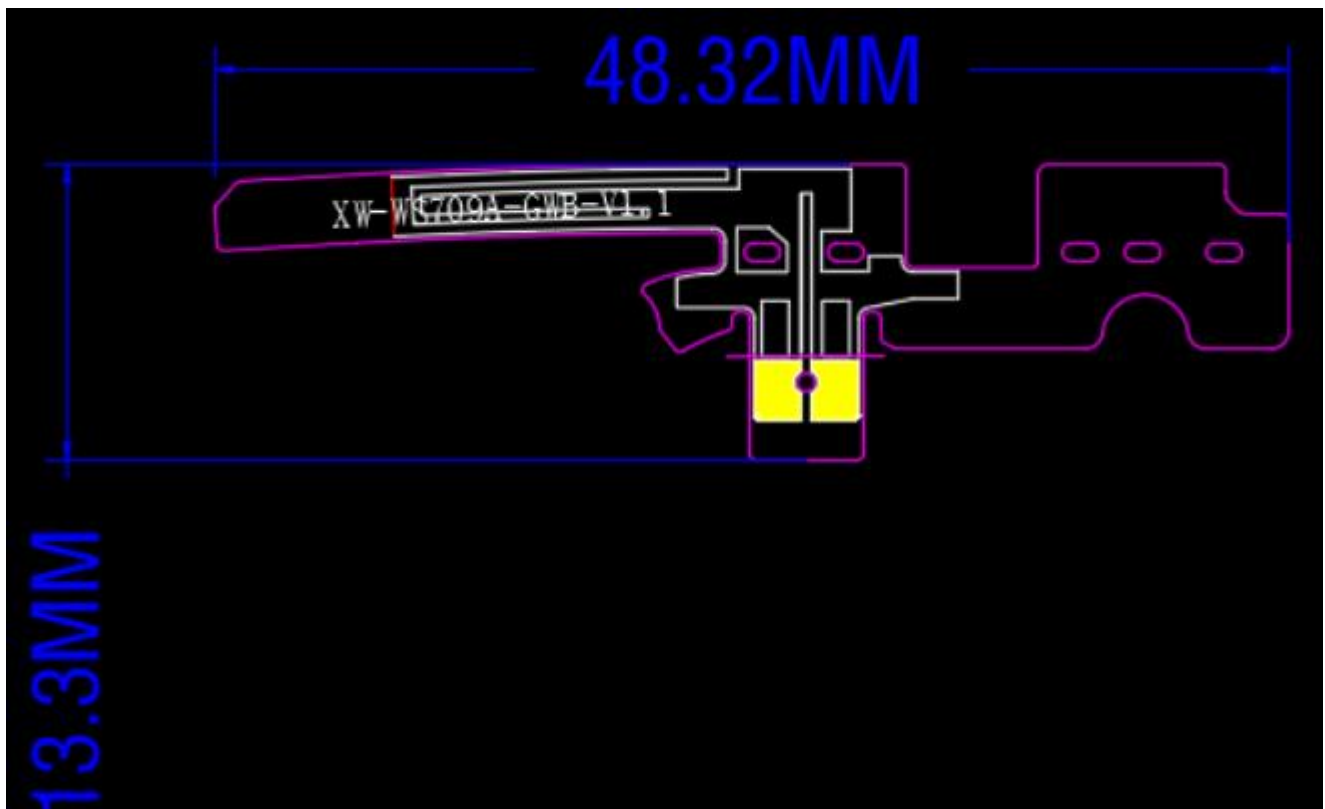
2400MHZ~2500MHZ (BT/WIFI 2.4G)



Dimensional drawing of main antenna



Dimensional drawing of GPS/WIFI/BT antenna



Dimensional drawing of diversity antenna

