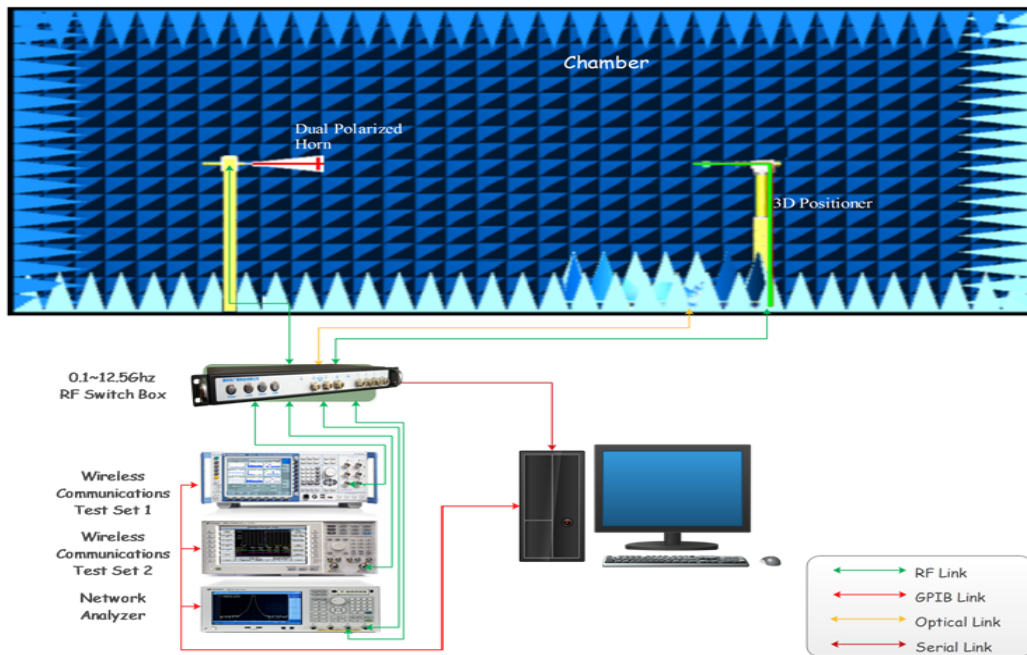




# WS681 antenna report

<b>Test Address</b>	Shenzhen3Good Wireless Communications CO.,LTD Room501,Jinfulai Building,No.49-1,Dabao Road,Baoan District,Shenzhen
<b>Test Date</b>	May 5(th), 2023
<b>Test Instrument</b>	vector network analyzer -Agilent Technologies E5071B

## Facility description Measurement procedure

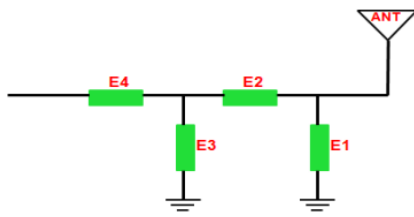




**Antenna information**

Customer	Boat of wealth
Antenna Model	WS681A
Antenna Type	PIFA Antenna

**Matching circuits**



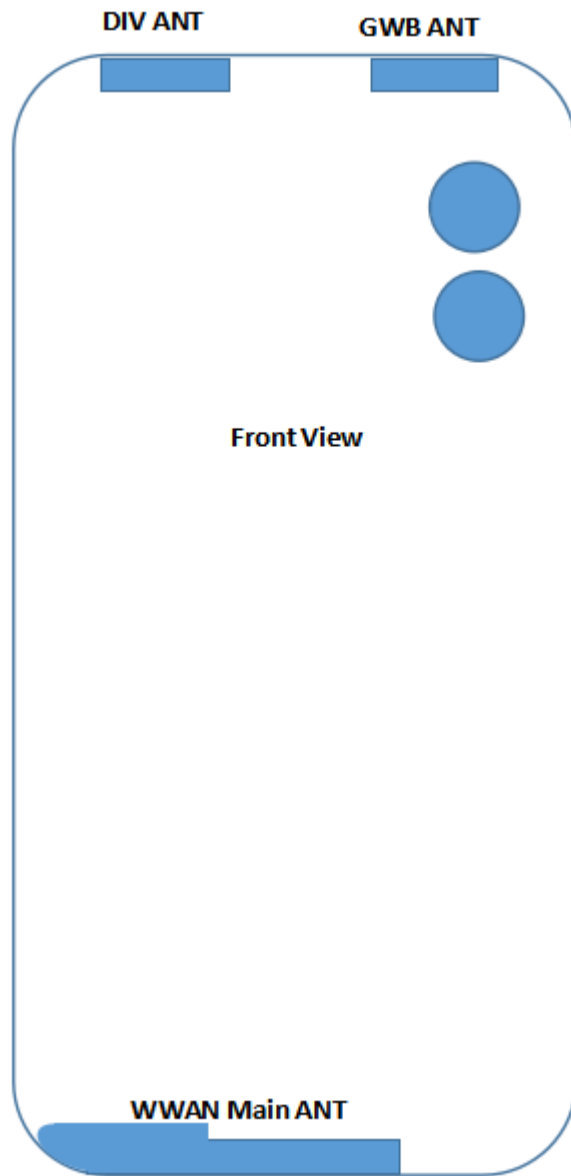
Main Antenna		Aux Antenna	
Element	Value	Element	Value
E1(0402)		E1(0402)	
E2(0402)		E2(0402)	
E3(0402)		E3(0402)	
E4(0402)			

**Passive performance figure**

Frequency(MHZ)	617~960	1710~2690
VSWR	<3.5	<3.5



**Antenna position picture**





All of Implementation antenna

Main antenna(Antenna Label:A):

LTE B5/B7/B12/B17/B28AB/B71 RX&TX

B1/B2/B3/B4/RX

WCDMA B5/B8 RX&TX

B1/B2/B4 RX

GSM B5/B8 RX&TX

B2/B3 RX

DIV antenna(Antenna Label:B):

LTE B1/B2/B3/B4/B66 RX&TX

WCDMA B2/B4 RX&TX

GSM B2/B3 RX&TX

WiFi-B/BT 2.4~2.5GHZ/WIFI-A5150~5850MHZ& GPS: 1575.42 MHz ;

Antenna Max. Peak Gain:

EGSM900:-0.8dBi

GSM850: -0.4dBi

DCS1800: -0.9dBi

PCS1900: -0.3dBi

WCDMA2100: -1.5dBi

WCDMA1900:-0.3dBi

WCDMA1700: -0.9dBi

WCDMA900: -0.8dBi

WCDMA850: -0.4dBi

LTE-B1: -1.5dBi

LTE-B2: -0.3dBi

LTE-B3: -0.9dBi

LTE-B4: -0.9dBi

LTE-B5: -0.4dBi

LTE-B7: -0.4dBi

LTE-B12: -0.7dBi

LTE-B17: -0.7dBi

LTE-B28: -0.7dBi

LTE-B66: -0.9dBi

LTE-B71:- 2.6dBi

WIFI-2.4G/BT:0.6dBi

WIFI-5G:-1.32dBi

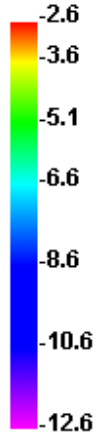
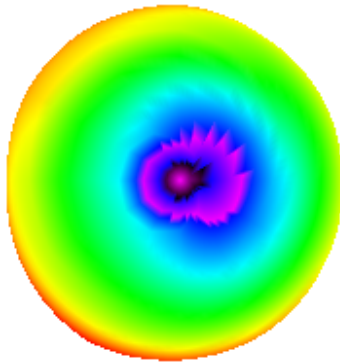
GPS:1.3dBi



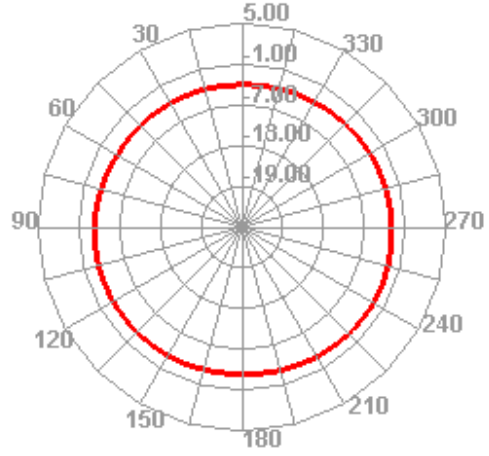
3-D Patten Plots

Main ANT:

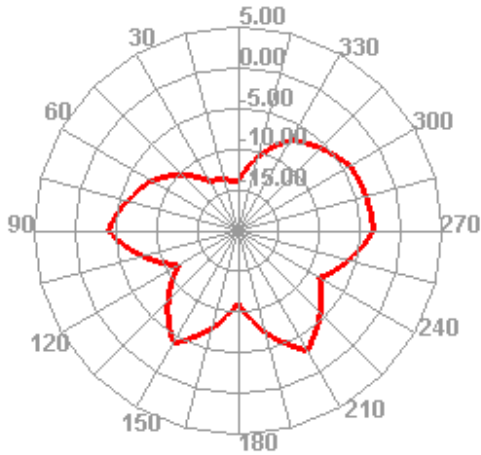
660.000MHz



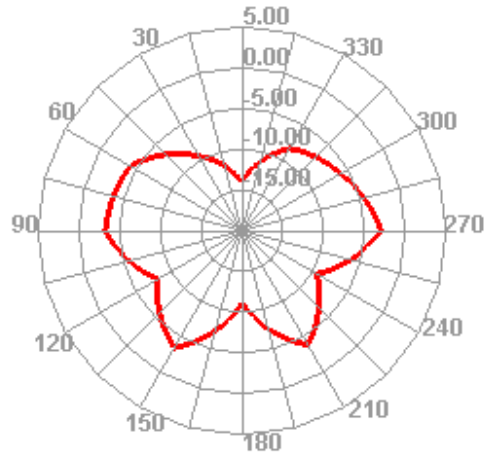
660.000MHz H



660.000MHz E1

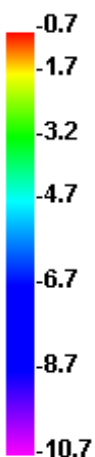
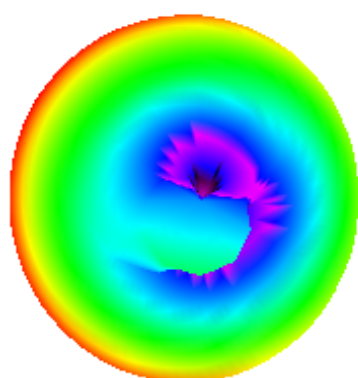


660.000MHz E2

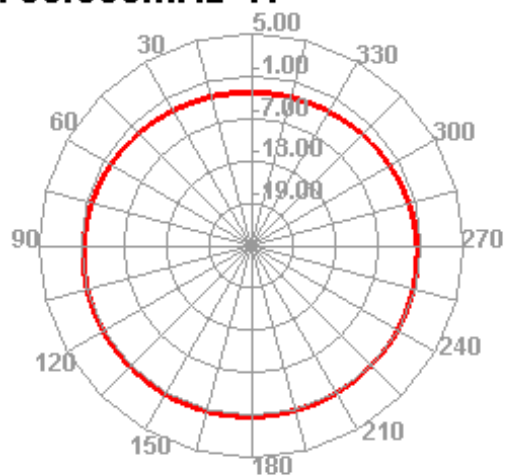




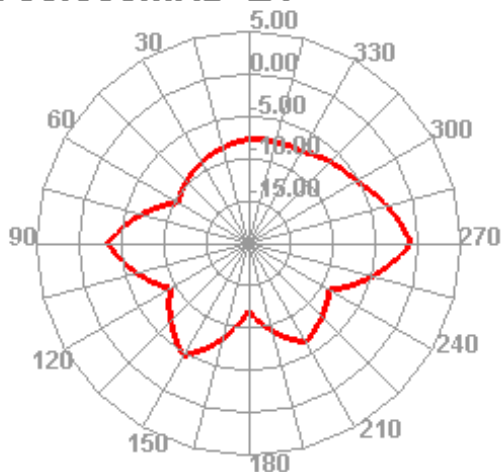
730.000MHz



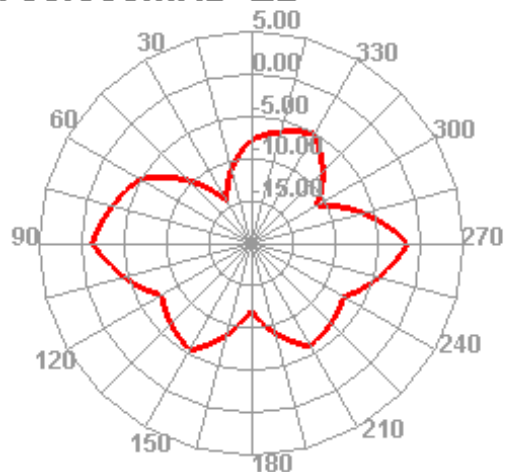
730.000MHz H



730.000MHz E1

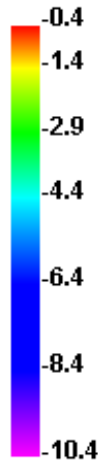
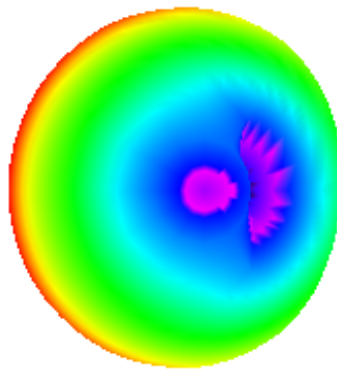


730.000MHz E2

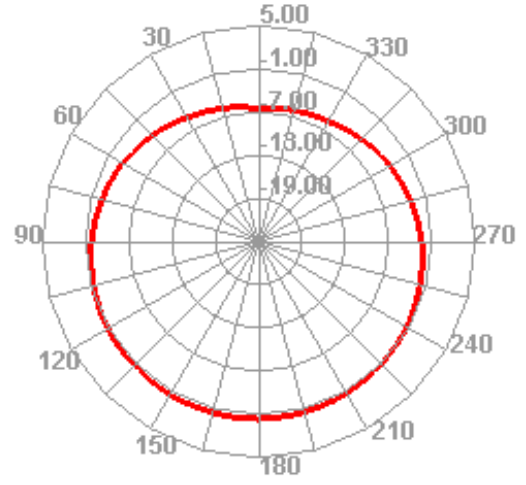




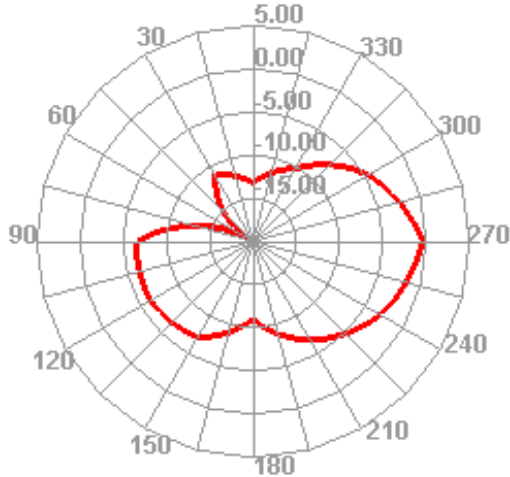
850.000MHz



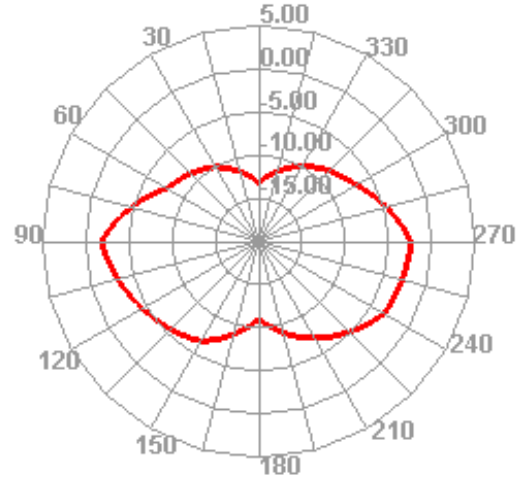
850.000MHz H



850.000MHz E1

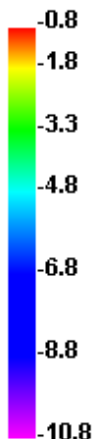
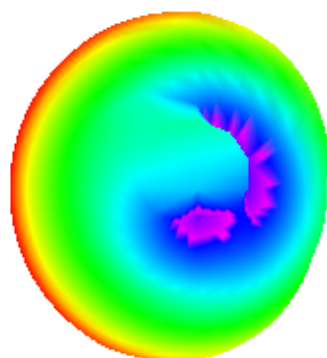


850.000MHz E2

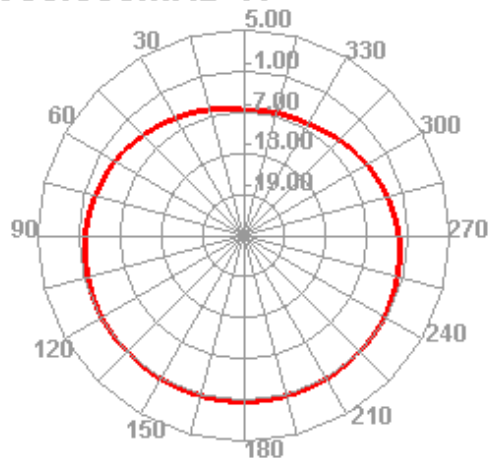




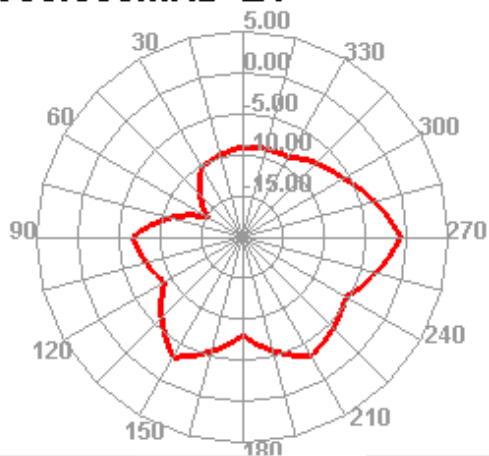
900.000MHz



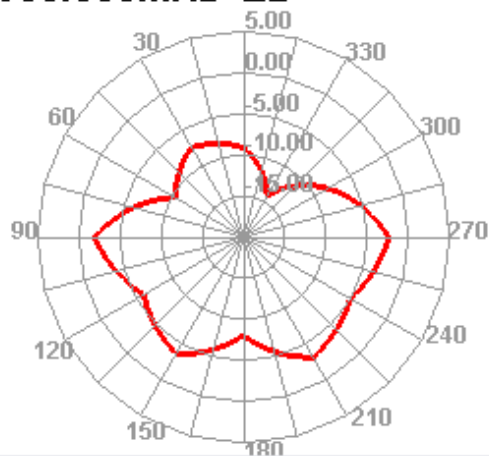
900.000MHz H



900.000MHz E1



900.000MHz E2

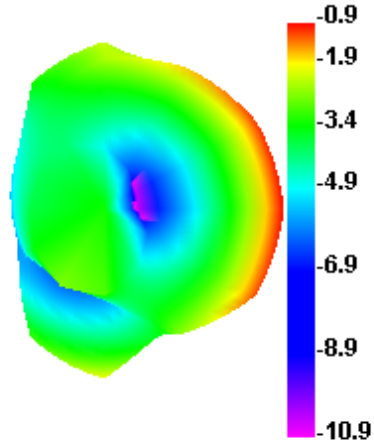




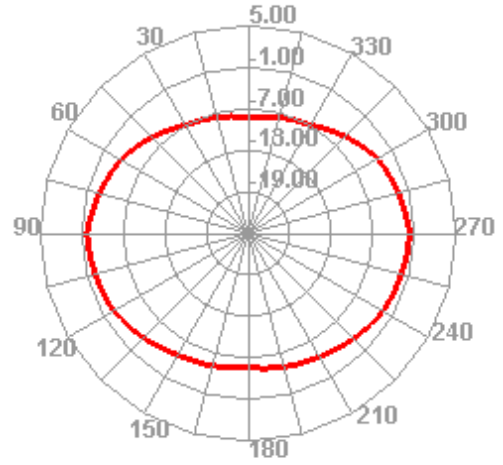


DIV ANT:

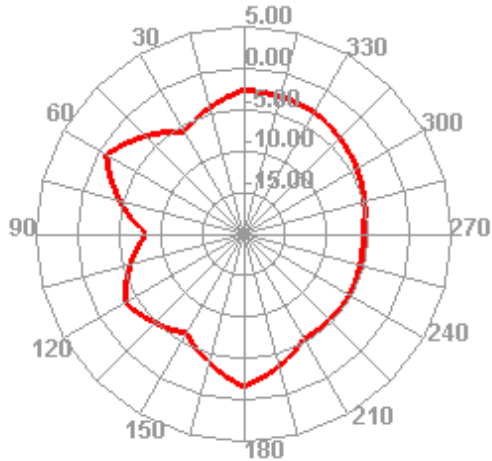
1800.000MHz



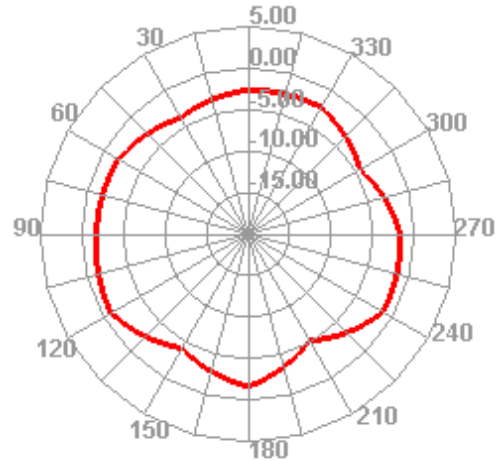
1800.000MHz H



1800.000MHz E1

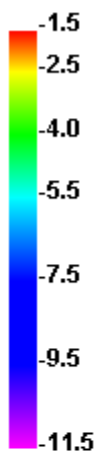
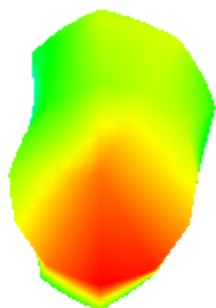


1800.000MHz E2

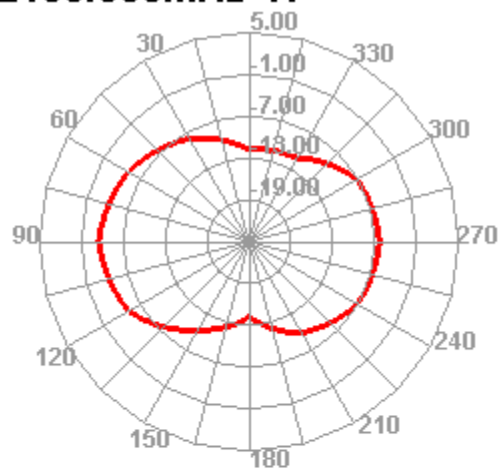




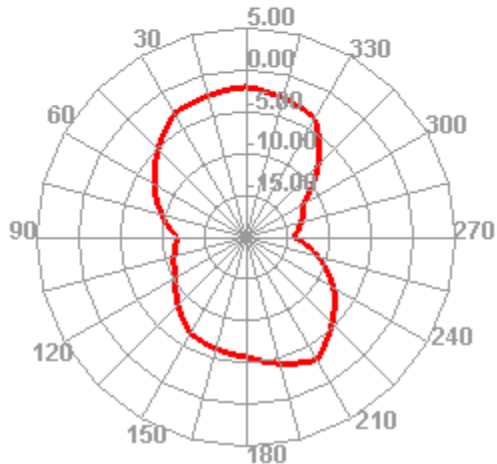
2100.000MHz



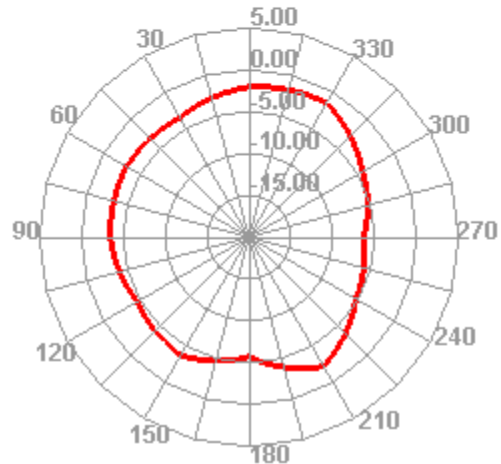
2100.000MHz H



2100.000MHz E1

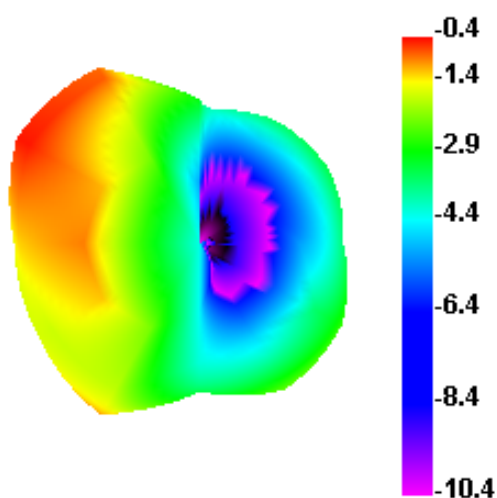


2100.000MHz E2

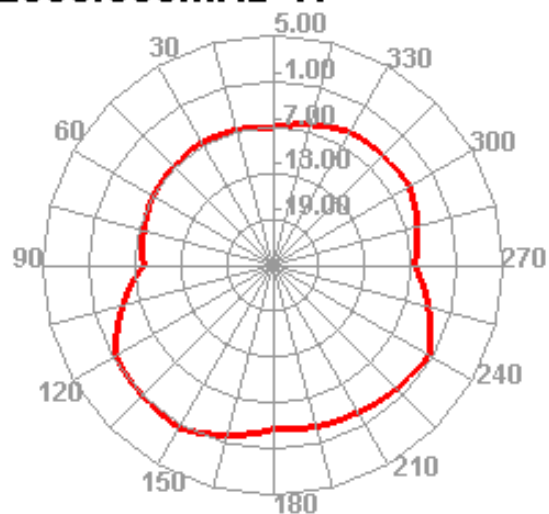




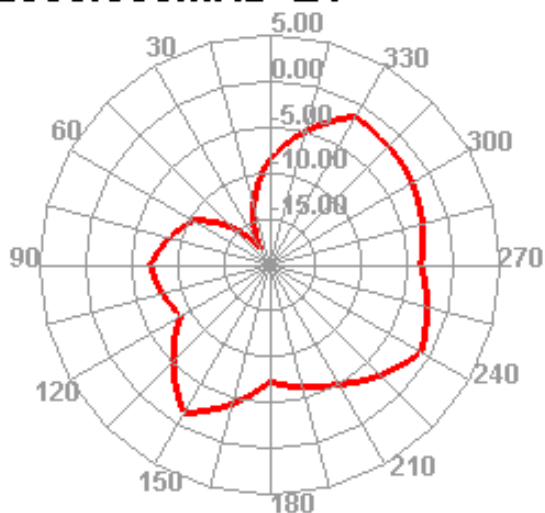
2500.000MHz



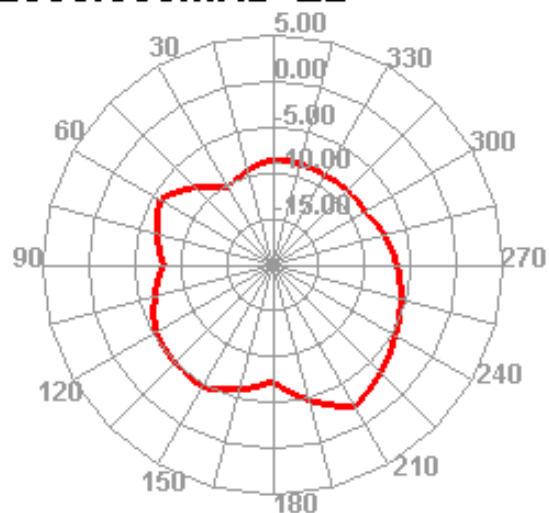
2500.000MHz H



2500.000MHz E1

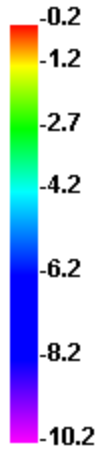
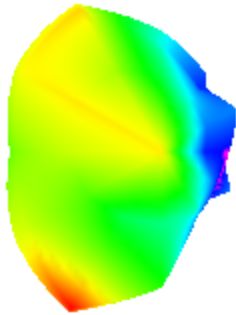


2500.000MHz E2

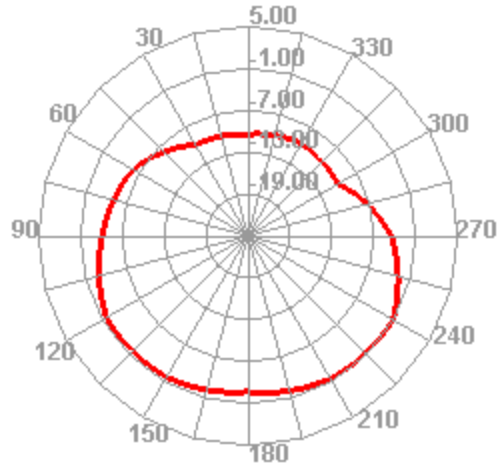




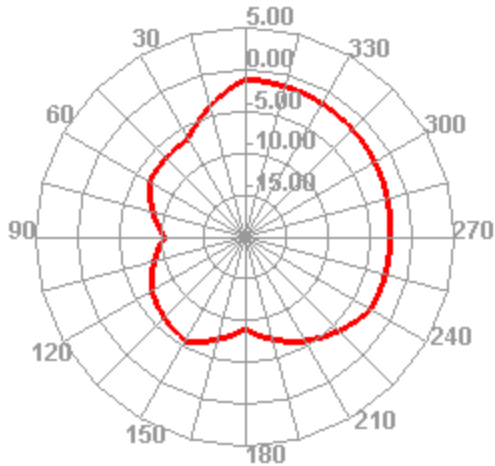
2700.000MHz



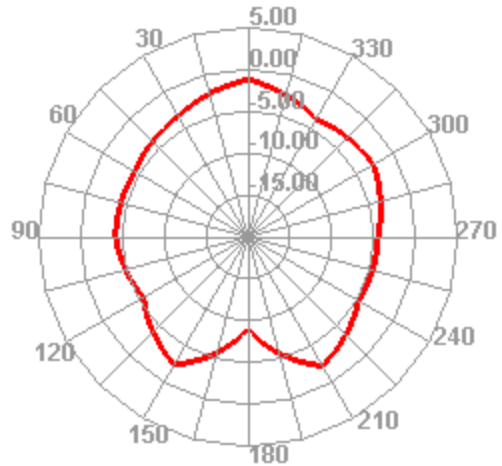
2700.000MHz H



2700.000MHz E1



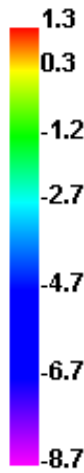
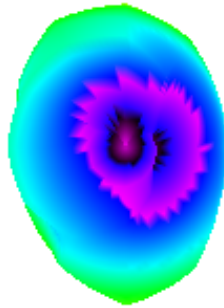
2700.000MHz E2



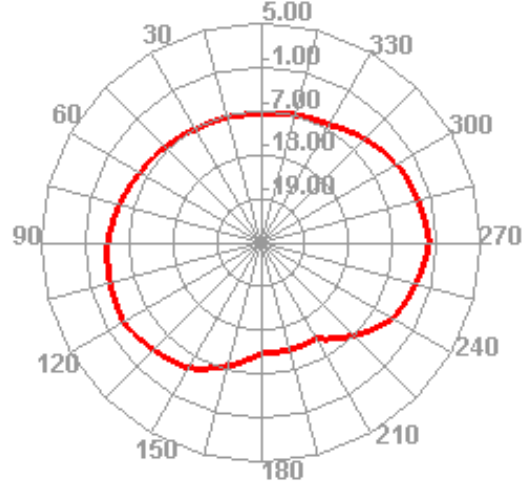


GWB ANT:

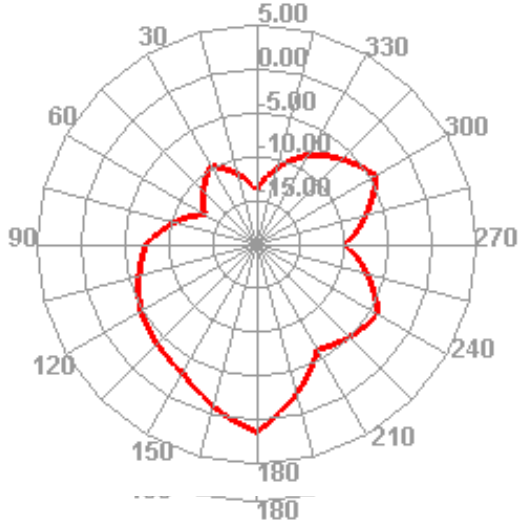
1575.000MHz



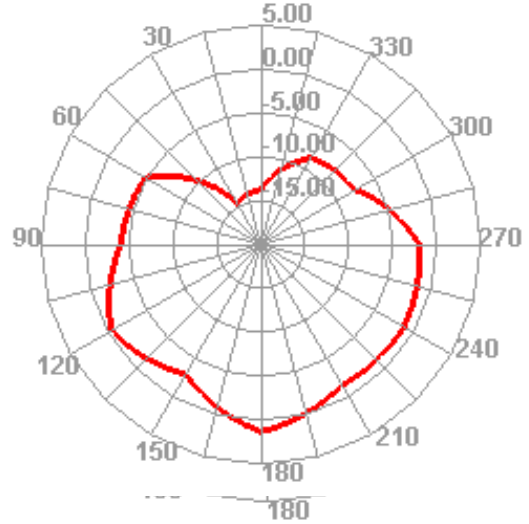
1575.000MHz H



1575.000MHz E1

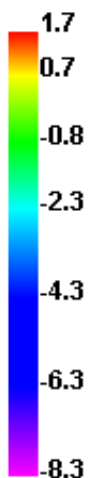
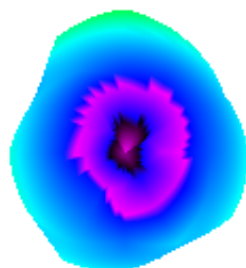


1575.000MHz E2

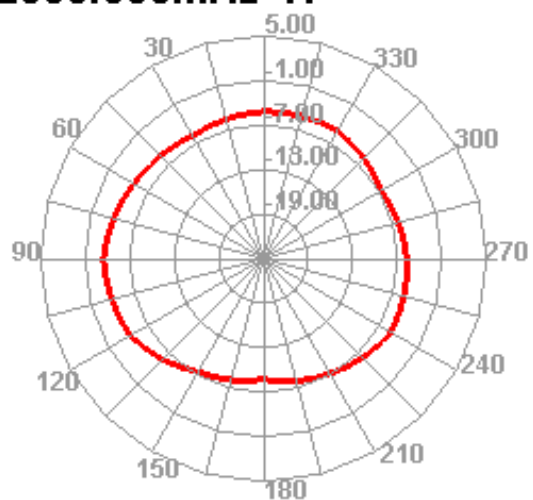




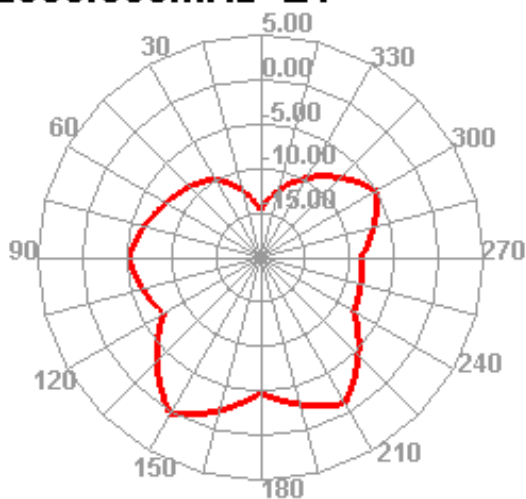
2500.000MHz



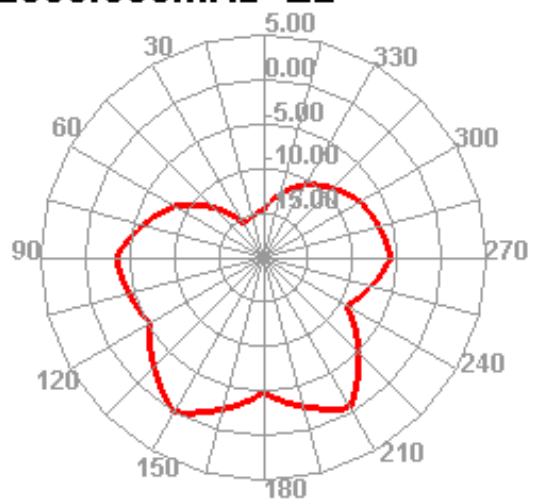
2500.000MHz H



2500.000MHz E1

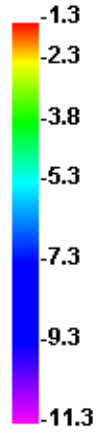
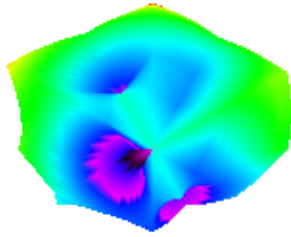


2500.000MHz E2

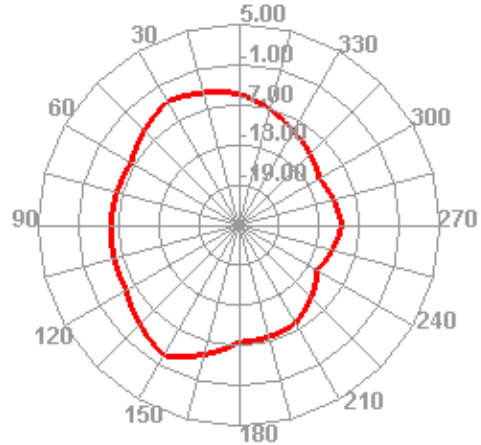




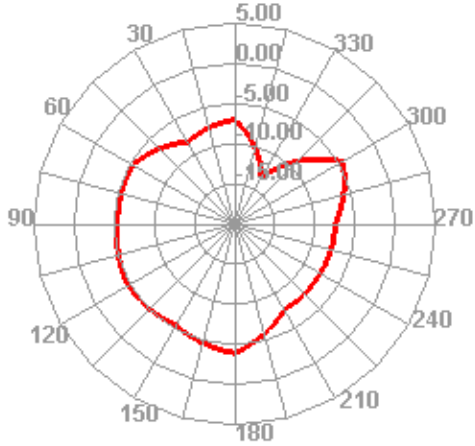
5180.000MHz



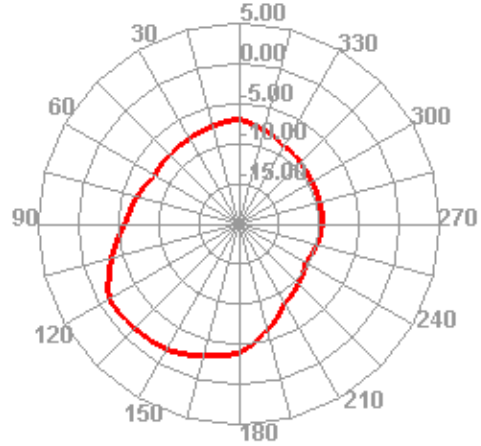
5180.000MHz H



5180.000MHz E1

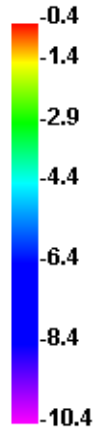
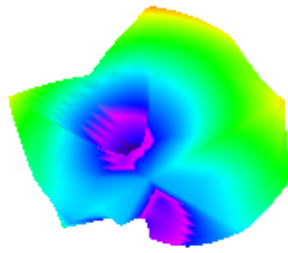


5180.000MHz E2

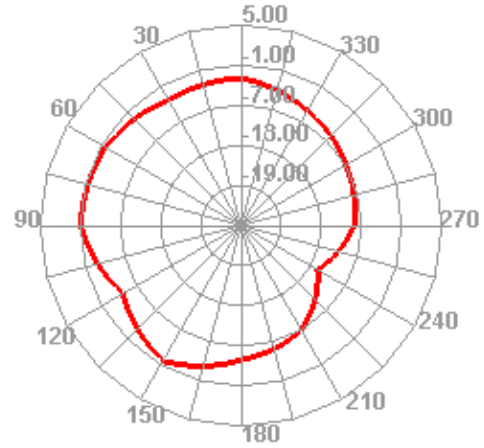




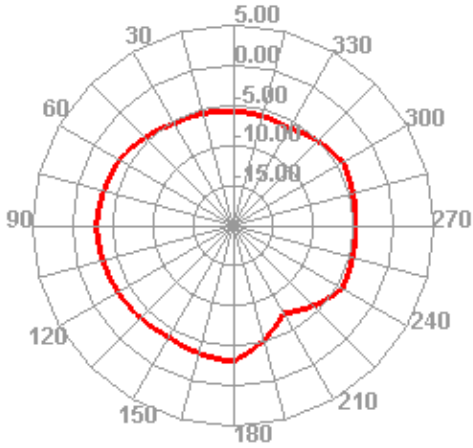
5500.000MHz



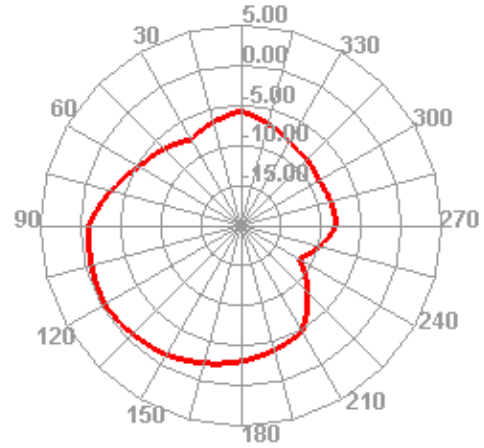
5500.000MHz H



5500.000MHz E1



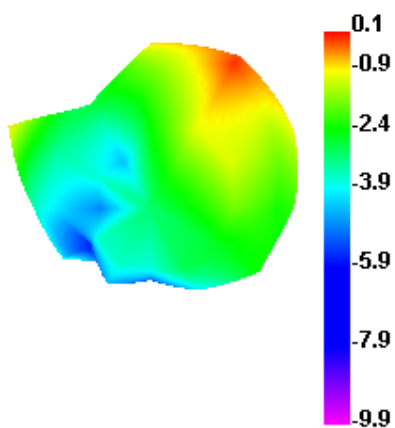
5500.000MHz E2



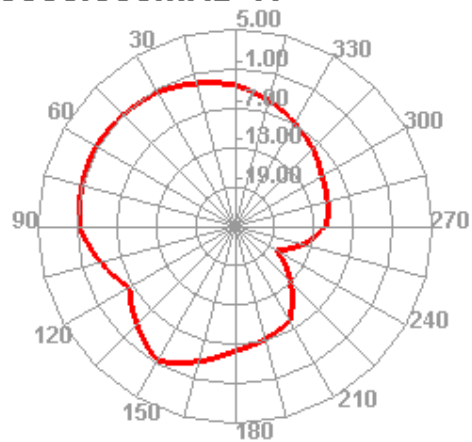




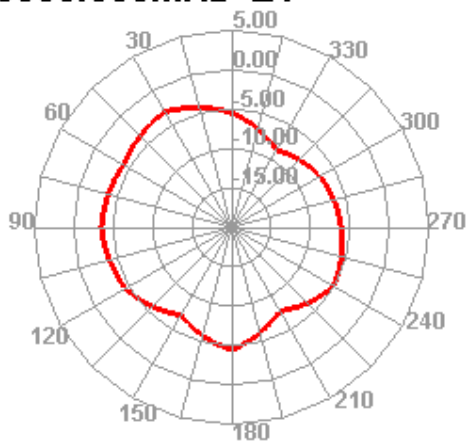
5850.000MHz



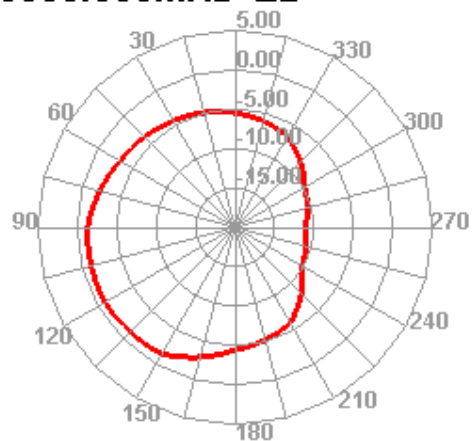
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



test engineer: *Xico hu*