Antenna specification

Heyuan Xunwei Communication Technology Co., Ltd

RF: Qiudazhong

Date: 2023.10.27

Office address: Zone M, 8/F, Building 1, Baisha Xinxing Industrial Park, No. 3011, Shahe West Road, Nanshan District, Shenzhen

Contents：

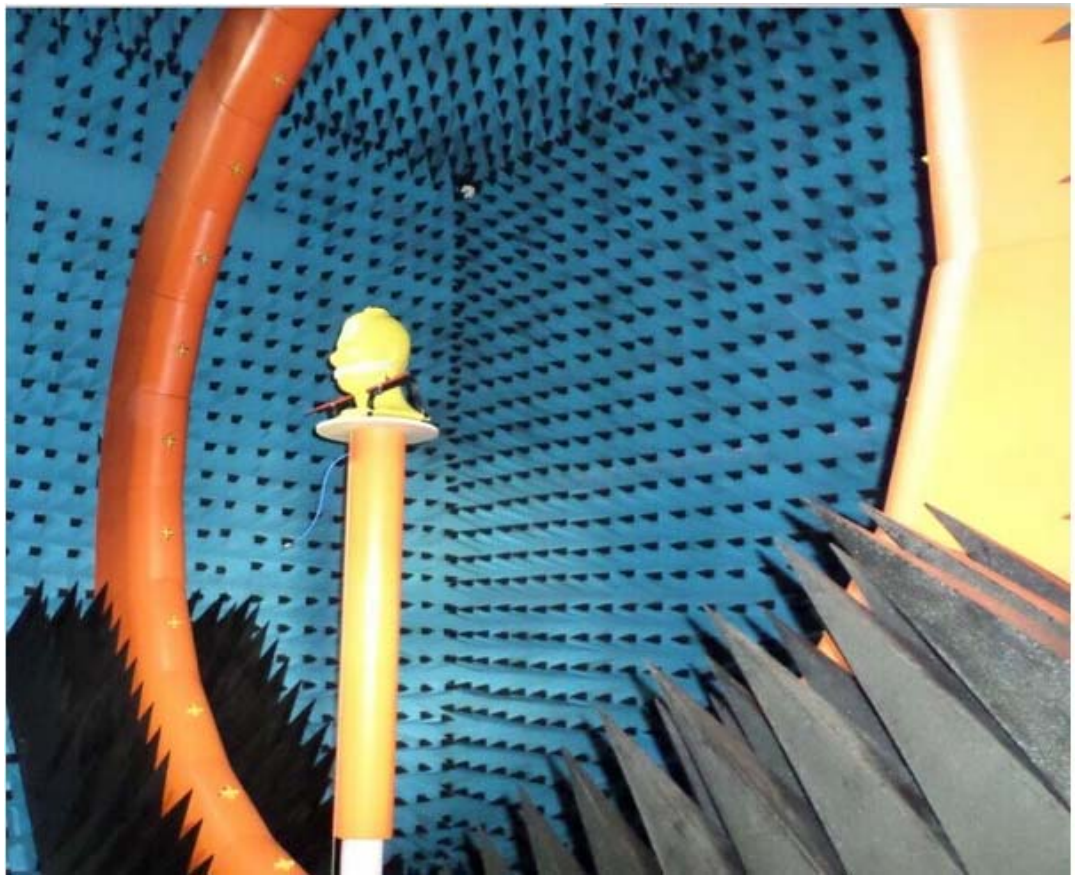
Test equipment
 Modal information
 Matching circuit
 Active performance
test data

Test equipment

Wireless communications test set: CMW500

Network Analyzer: Agilent 5071B

Anechoic Chamber : SATIMO SG24

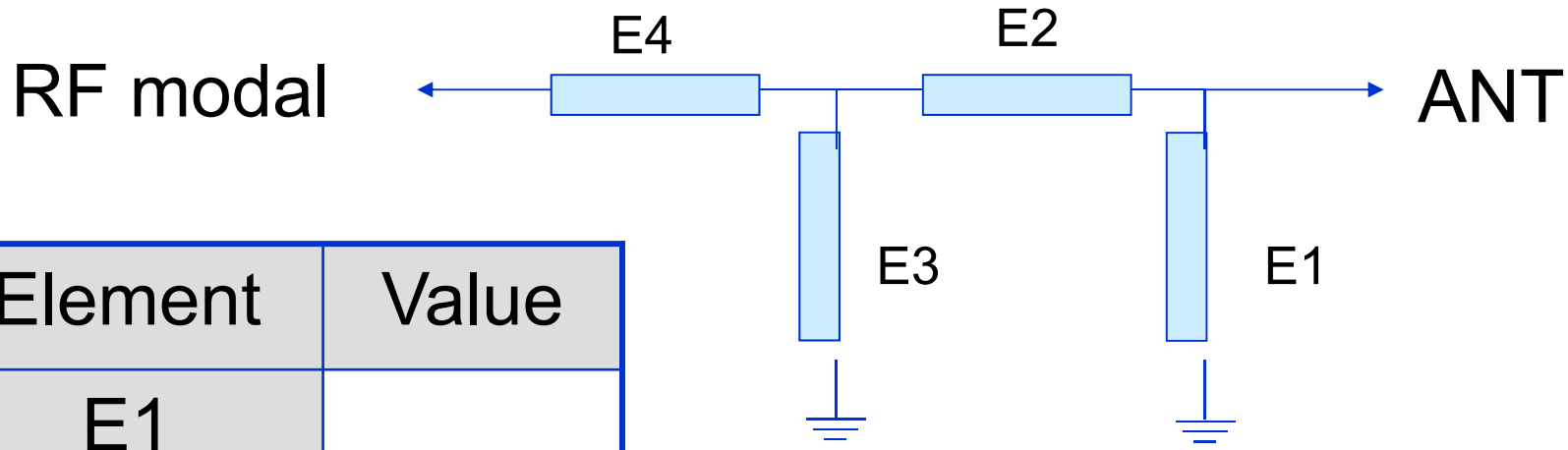


Antenna information

Customer	Boat of wealth
Antenna model	FPC
Antenna type	PIFA
Antenna band	GSM:900/1800/850/1900 WCDMA:B2/B4/B5 LTE:B2/B4/B5/B8/B12/B66/B71

frequency range (MHz)	617-960	1710-2170	2490-2690
VSWR	<3.5	<3.5	<3.5

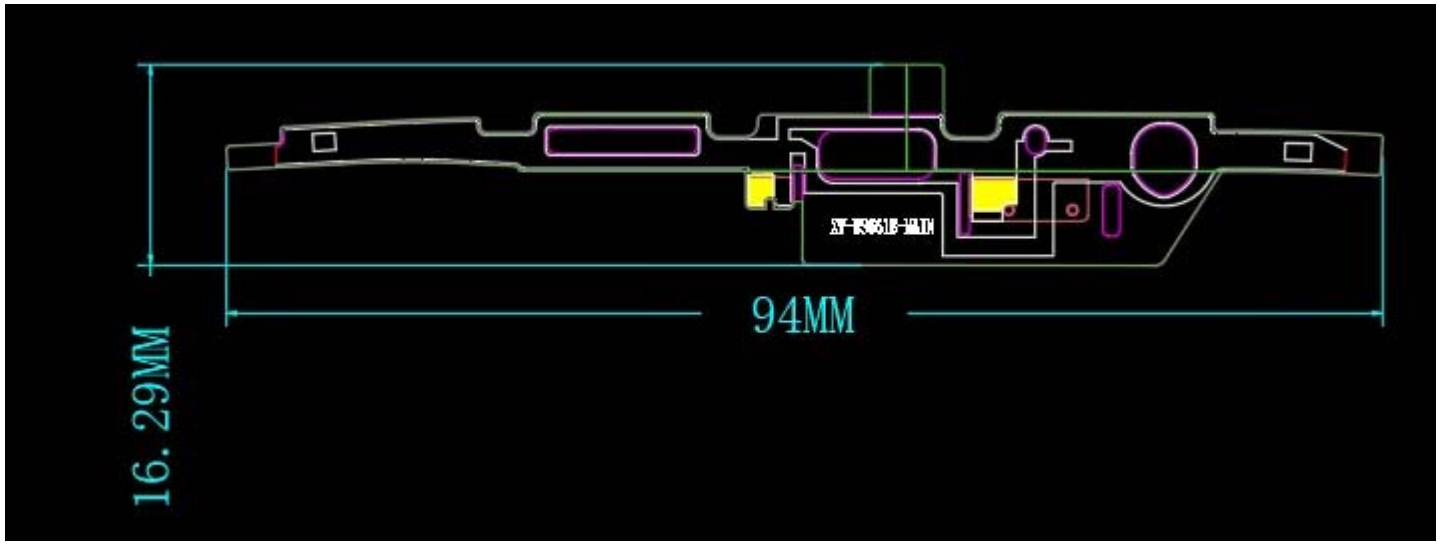
Matching circuit（No modification）



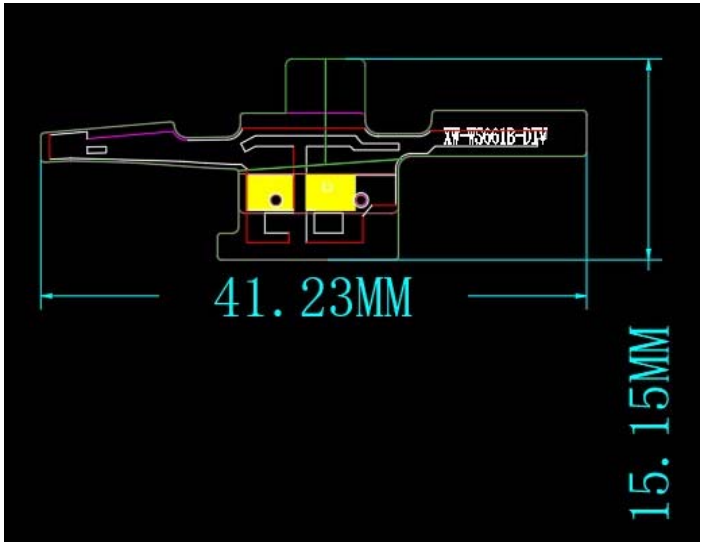
Element	Value
E1	
E2	
E3	
E4	

Antenna dimension drawing

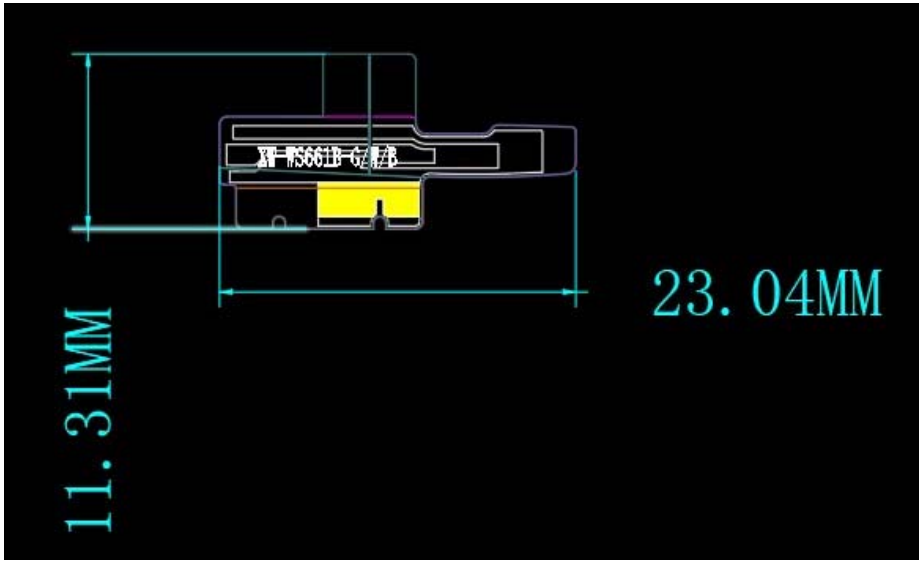
WWAN Main ANT（XW-WS661B-MAIN）



DIV ANT （XW-WS661B-DIV）

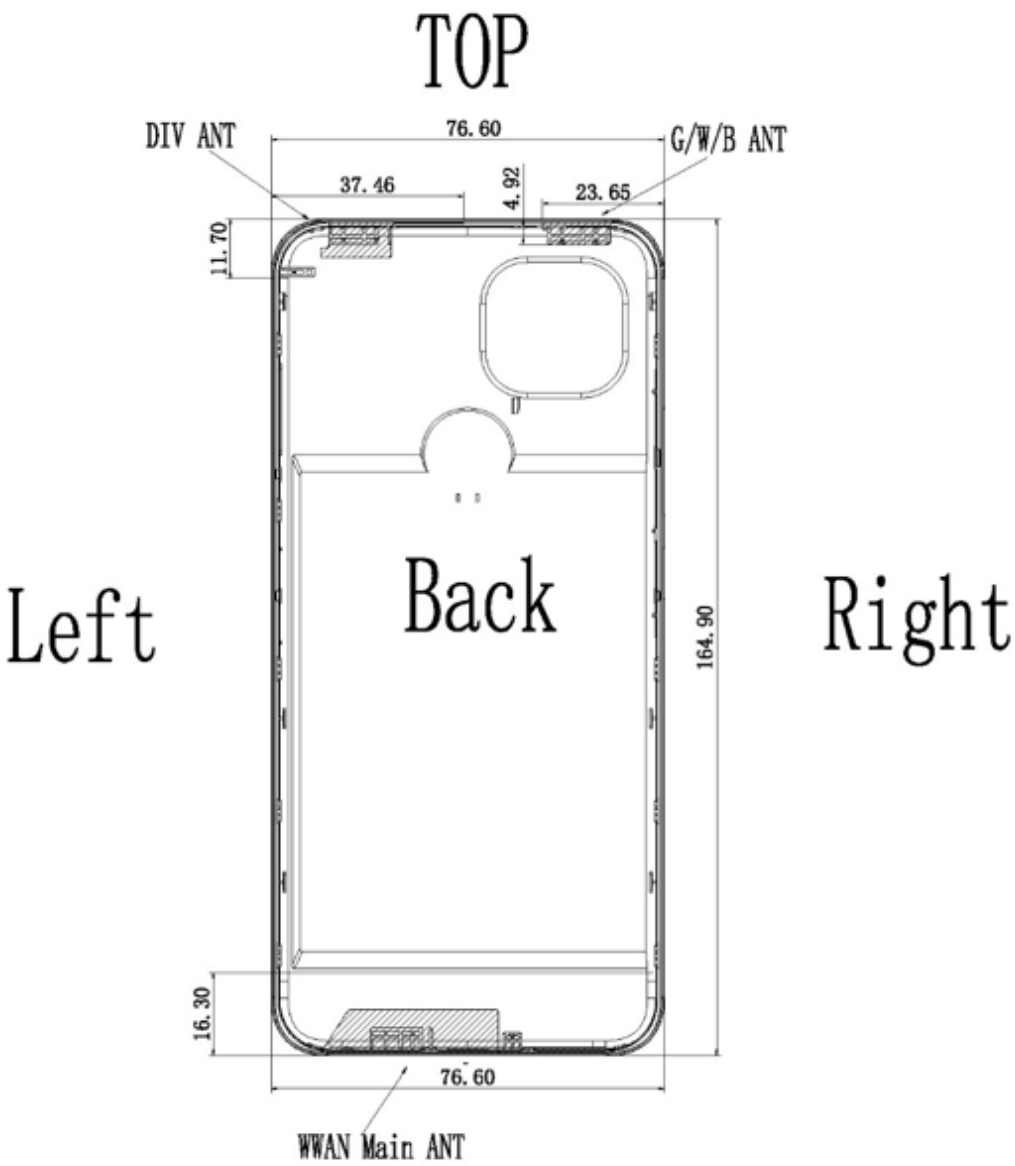


（XW-WS661B-MAIN） （XW-WS661B-G/W/B）



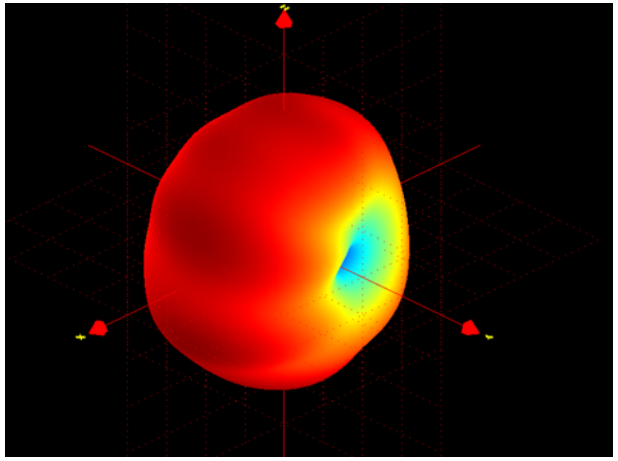
LTE Antenna gain

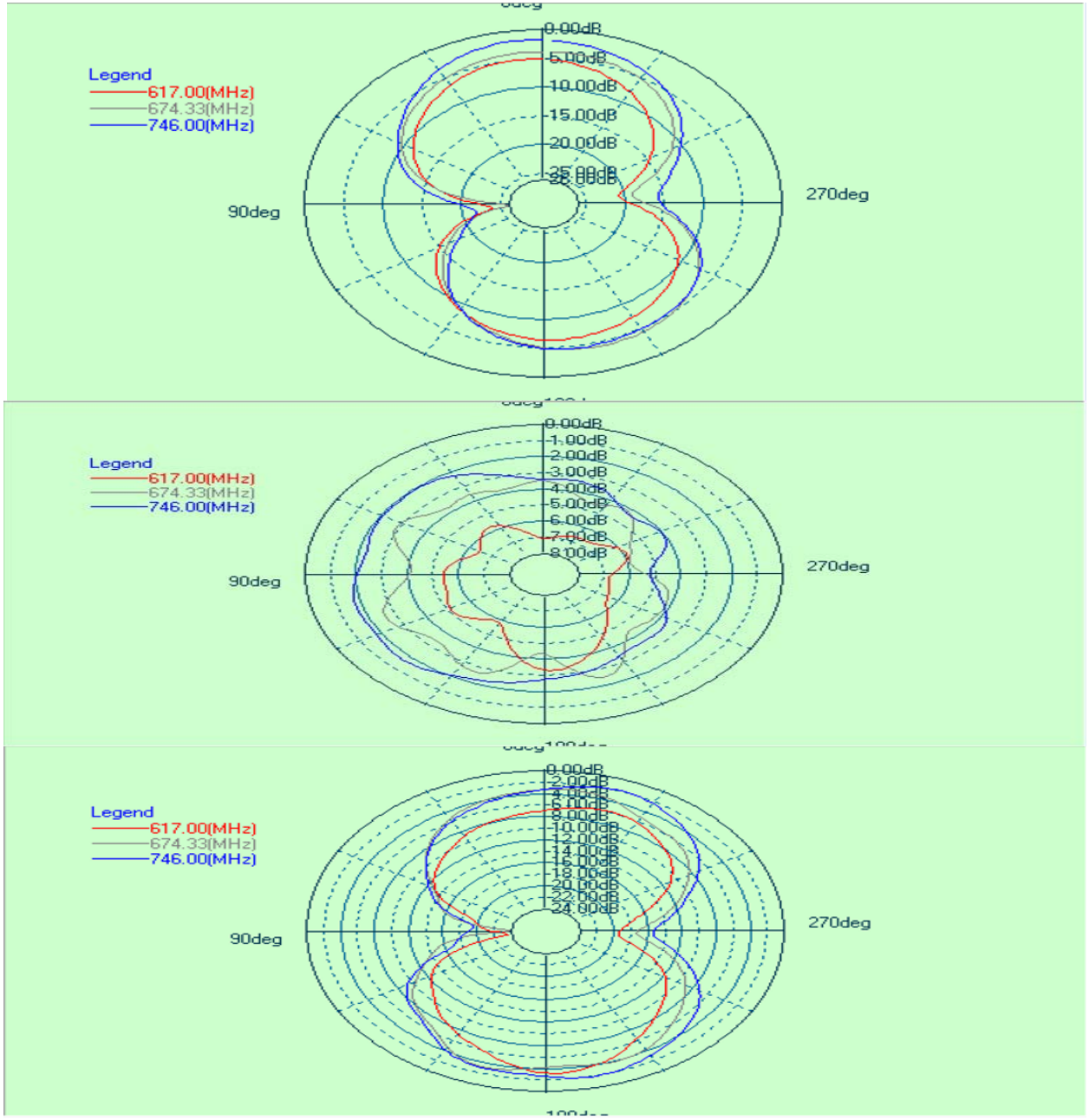
All of Implementation antenna
Main antenna(Antenna Label:A):
LTE FDD B8/B5/B12/B71 RX&TX ,
WCDMA W5 RX&TX
GSM B5/B8 RX&TX
DIV antenna(Antenna Label:B):
LTE FDD B2/B4/B66 RX&TX
WCDMA B2/B4 RX&TX
GSM B2/B3 RX&TX
WiFi/BT 2.4G 2412MHz~2472MHz& GPS: 1570 MHz~1620 MHz ;
Antenna Max. Peak Gain:
EGSM900:-1.32dBi
GSM850: -1.21dBi
DCS1800: -0.71dBi
PCS1900: -0.67dBi
WCDMA-B2: -0.72dBi
WCDMA-B4: -0.81dBi
WCDMA-B5: -1.21dBi
LTE-B2: -0.72dBi
LTE-B4: -0.81dBi
LTE-B5: -1.21dBi
LTE-B8: -1.32dBi
LTE-B12: -1.21dBi
LTE-B66: -0.97dBi
LTE-B71: -1.34dBi
WIFI/BT: -0.33dBi



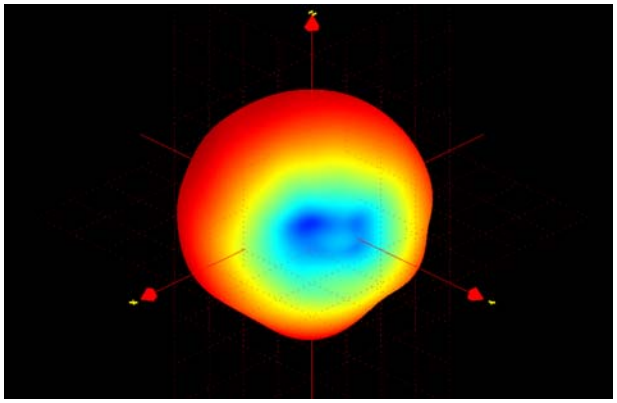
WWAN Main ANT:GB5/B8 LB8/B5/B12/B71 WB5 Tx/Rx
DIV ANT:GB2/B3 LB2/B4/B66 WB2/B4 RX&TX

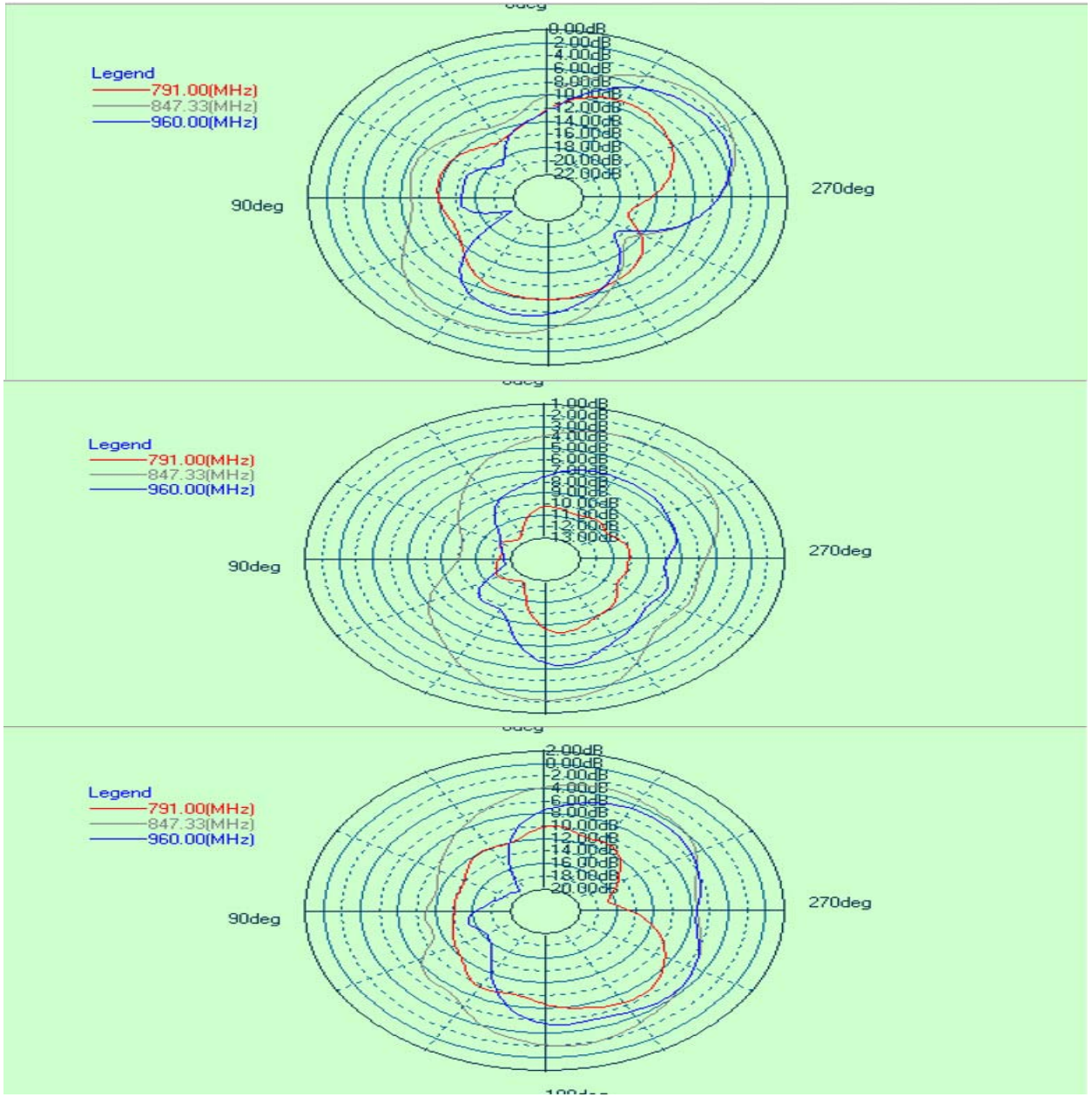
2.3 Main antenna Peak Gain(617~746M)



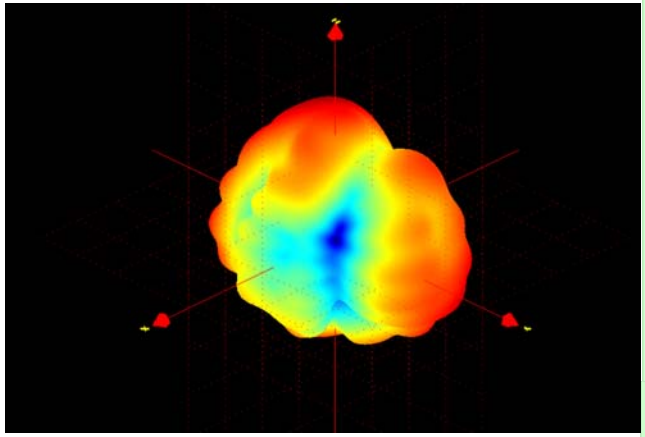


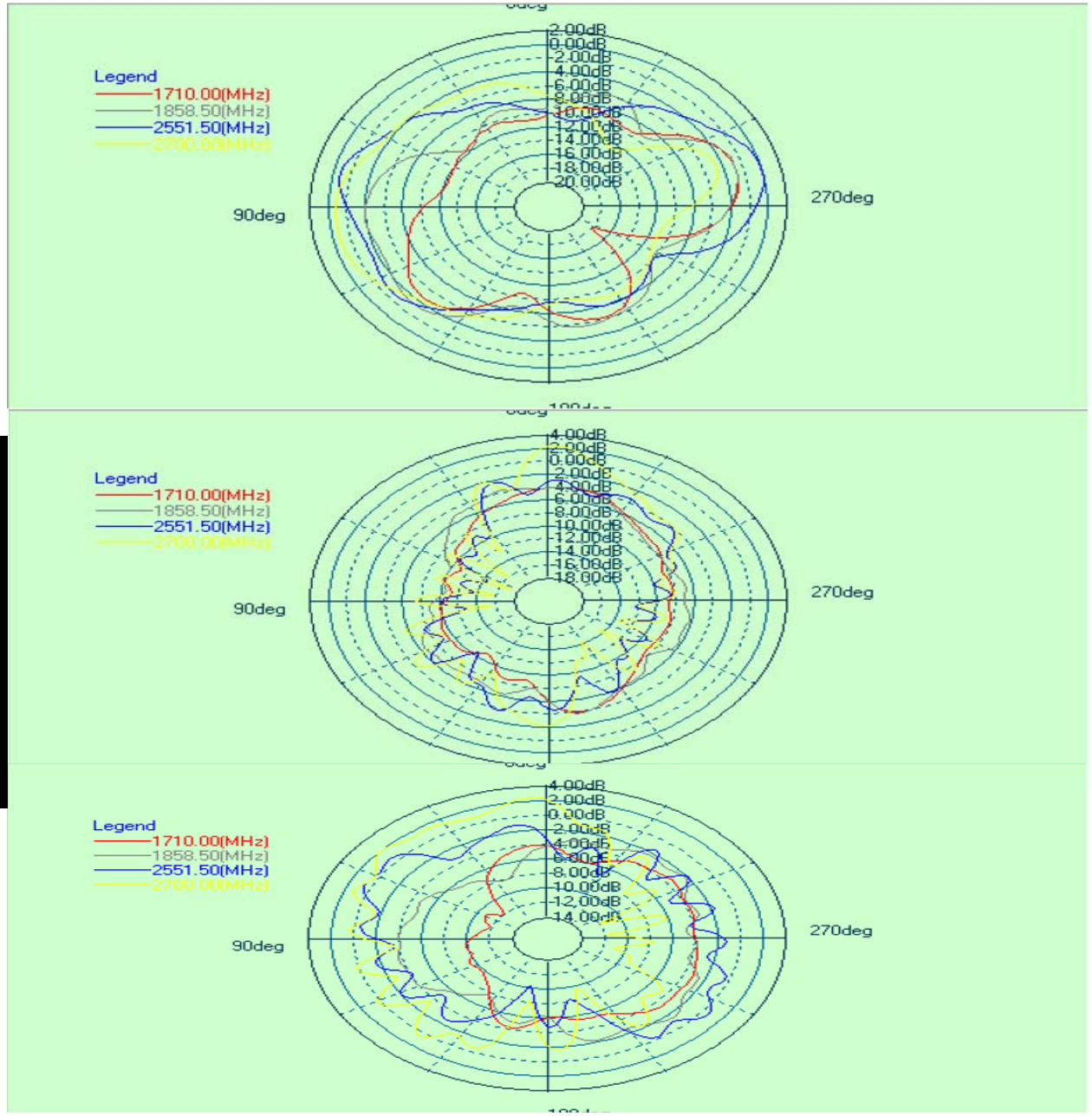
2.3 Main antenna Peak Gain(791~960M)



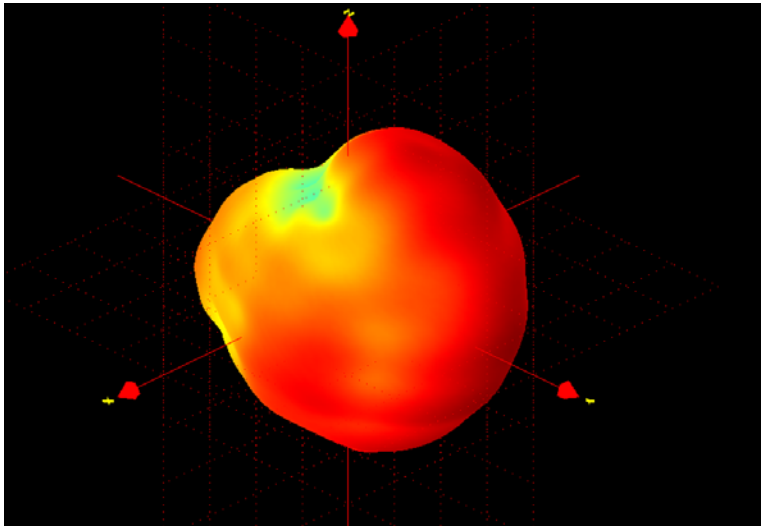


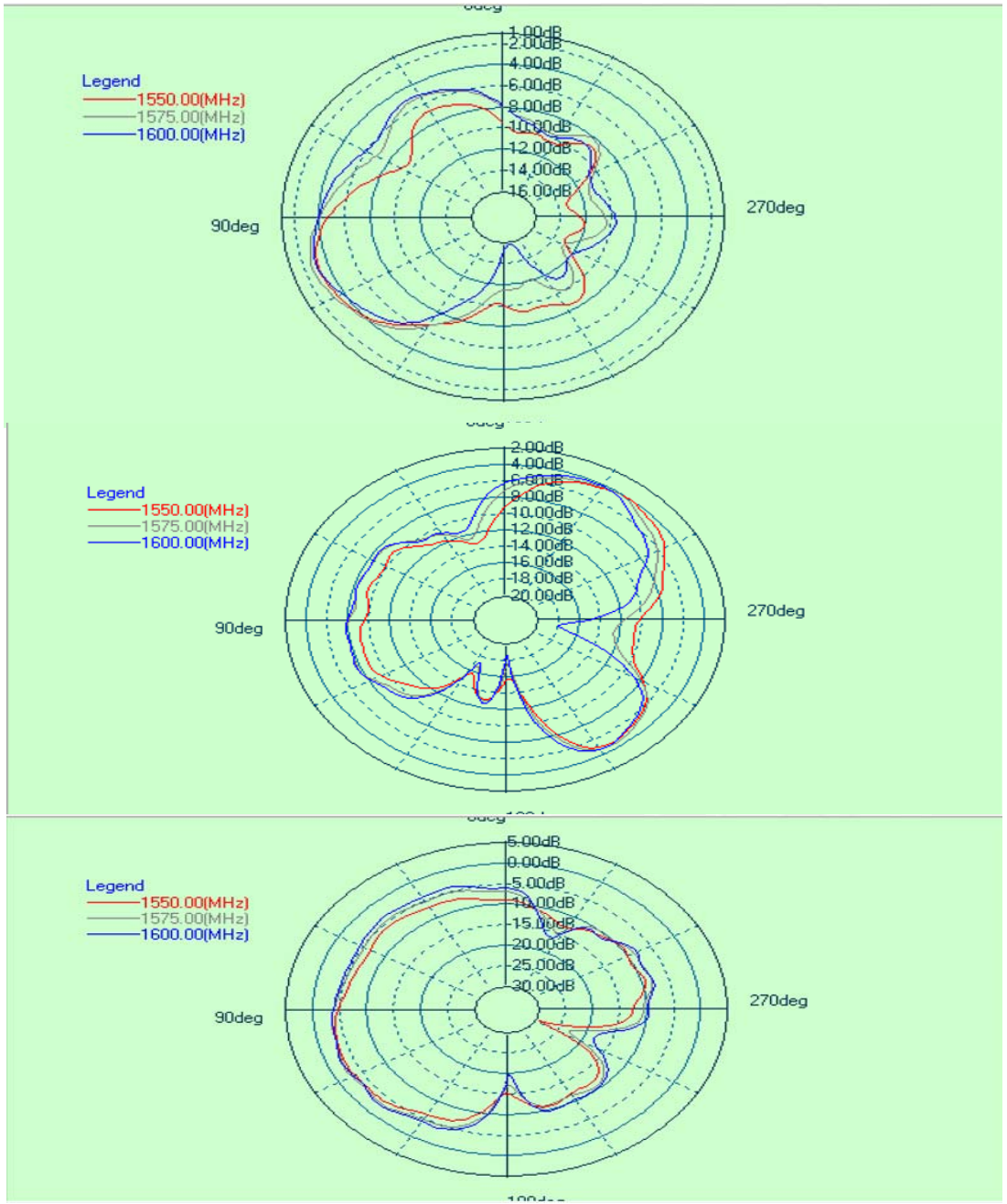
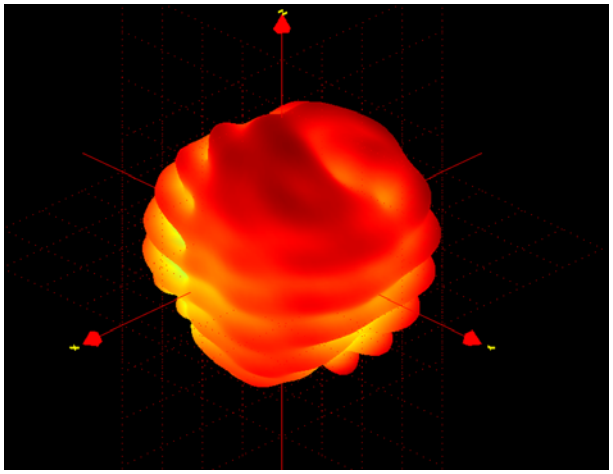
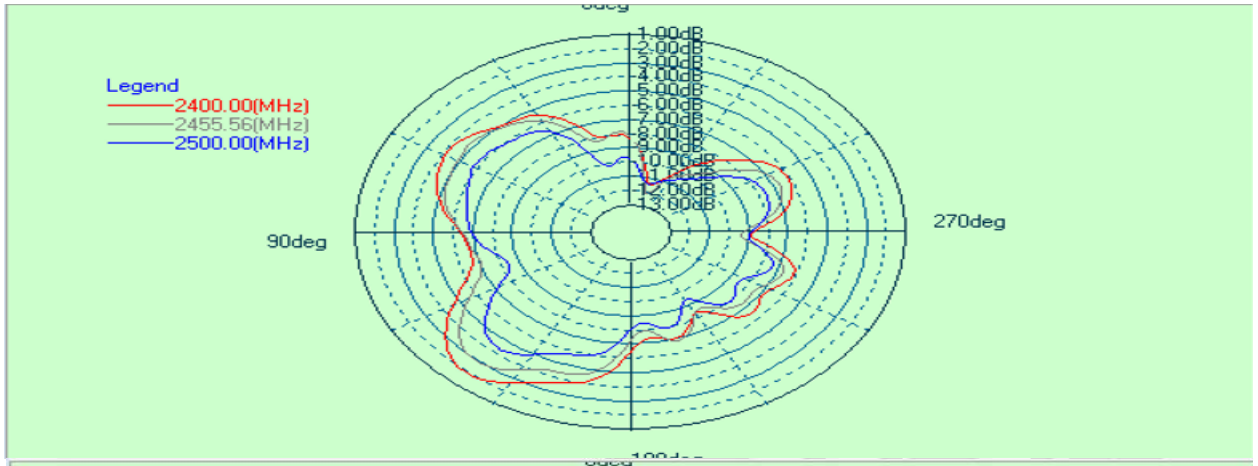
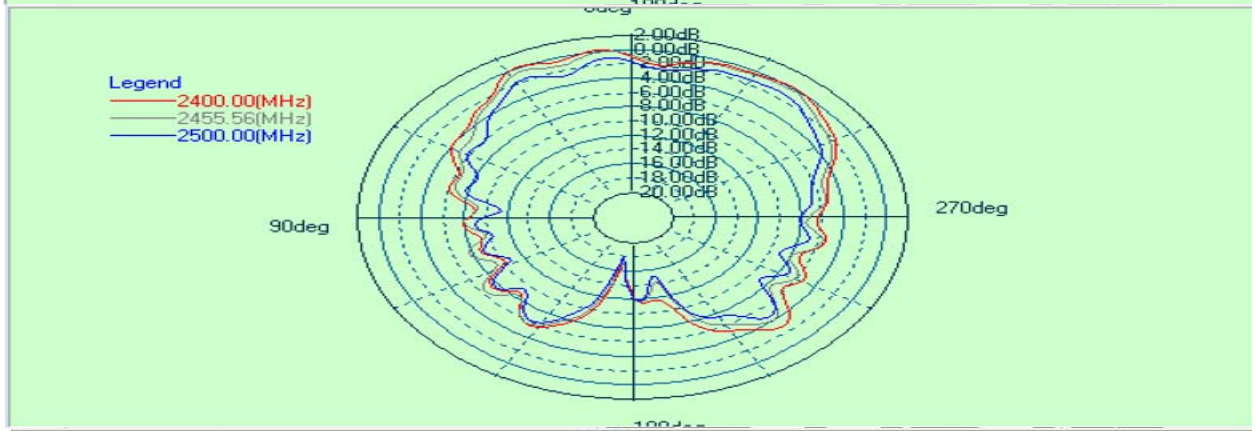
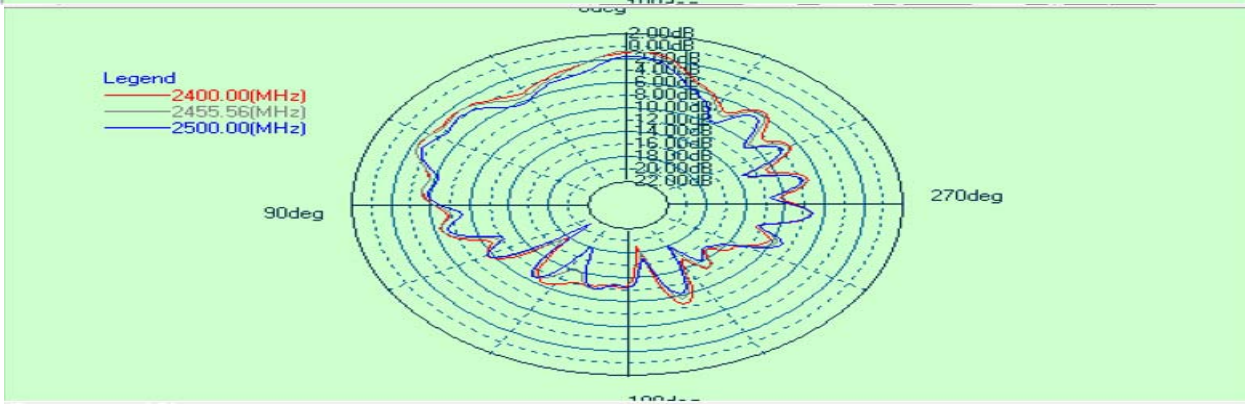
2.3 DIV antenna Peak Gain(1710~2700M)





2.3 G/W/B antenna Peak Gain(1575M)





2.3 G/W/B antenna Peak Gain(2400-2500M)