

深圳市麒鑫通达科技有限公司

天线测试数据报告

项目: S6901

GSM: B2/B3/B5/B8

WCDMA: B1/B2/B4/B5/B8

TDD: B38/B39/B40/B41

FDD: B1/B2/B3/B4/B5/B7/B8/B12/B17/B18/B19/B20/B25/B26/B28AB/B66/

工程: 熊工 (187 1893 6792)

日期: 2025-05-09

1. Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2/3/4/5G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: SP9500/CMW500/8960 Test Environment: Anechoic Chamber

2. Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)



Agilent 8960 (2G/3G Test Equipment)

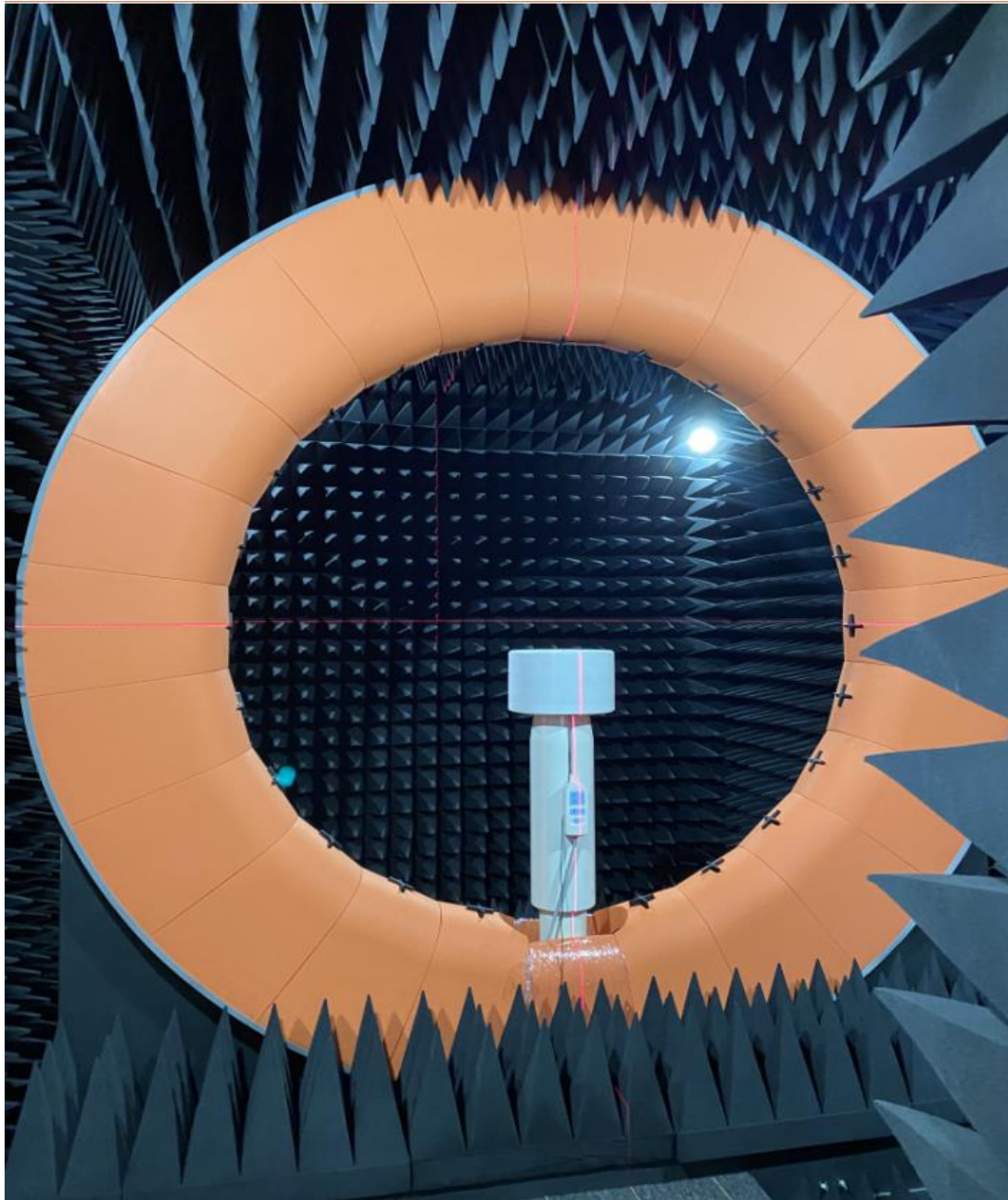


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

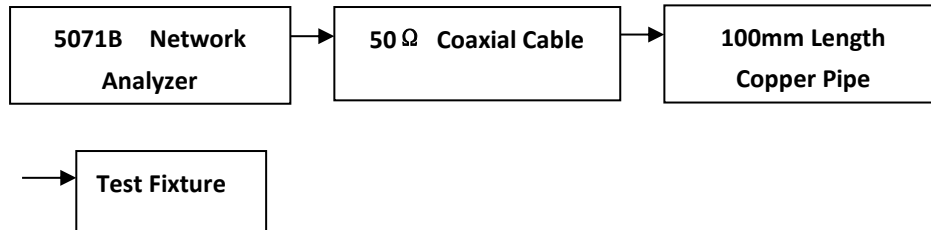
3. TestEnvironment



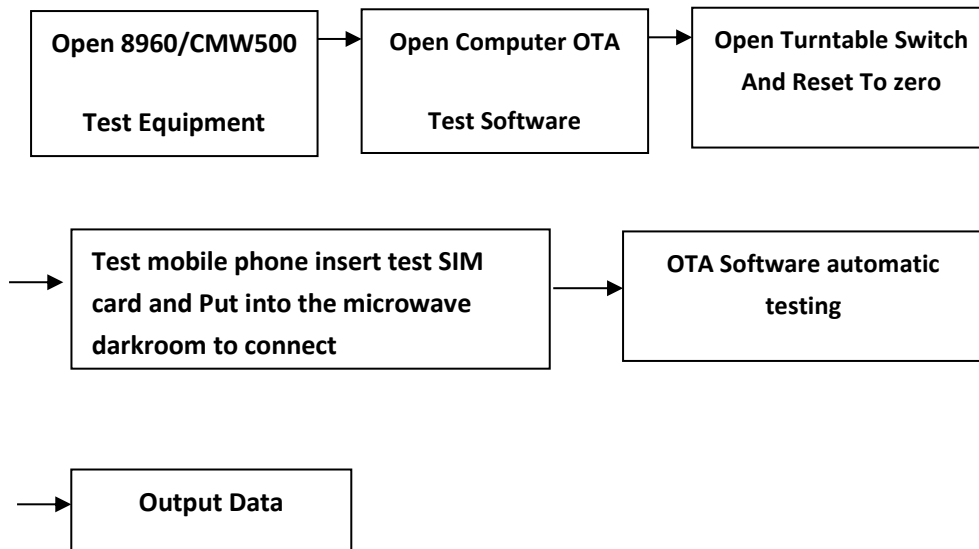
Microwave Anechoic Chamber

4.Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Gain

MAIN ANTENNA (PIFA): 2G/3G/4G

Band	Max Gain(dBi)	Band	Max Gain(dBi)
GSM850	-0.87	LTE-B5	-0.87
GSM900	-0.71	LTE-B8	-0.71
DCS1800	0.85	LTE-B12	-1.22
PCS1900	0.47	LTE-B17	-1.25
WCDMA1	-0.17	LTE-B18	-0.87
WCDMA2	0.47	LTE-B19	-0.89
WCDMA4	0.54	LTE-B20	-0.87
WCDMA5	-0.87	LTE-B25	0.47
WCDMA8	-0.71	LTE-B26	-0.87
LTE-B1	-0.17	LTE-B28	-1.33
LTE-B2	0.47	LTE-B66	0.58
LTE-B3	0.85	LTE-B39	0.85
LTE-B4	0.54		

DIV ANTENNA (PIFA): 4G

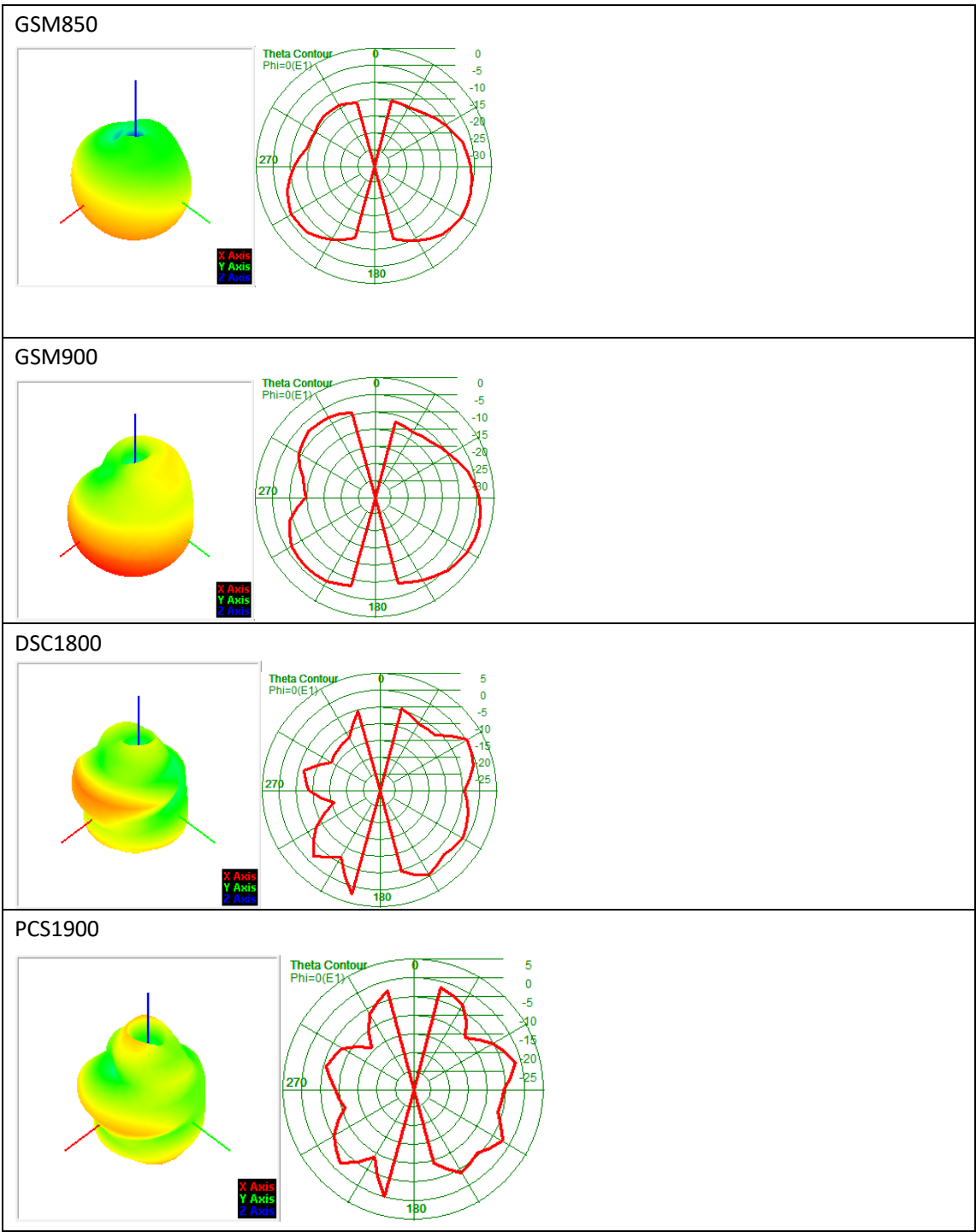
Band	Max Gain(dBi)
LTE-B7	-0.47
LTE-B38	-0.78
LTE-B40	-0.58
LTE-B41	-0.79

GPS/WIFI/BT ANTENNA (PIFA): L1/2.4G/WIFI/5G/WIFI/BT

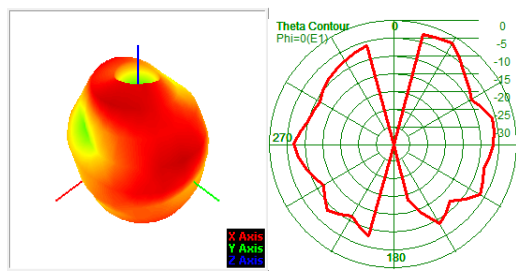
Band	Max Gain(dBi)
GPS	-0.31
Bluetooth	-0.13
WIFI-2.4G	-0.13
WIFI-5.1G	-0.38
WIFI-5.8G	-0.50

6.3D Lobe Diagram

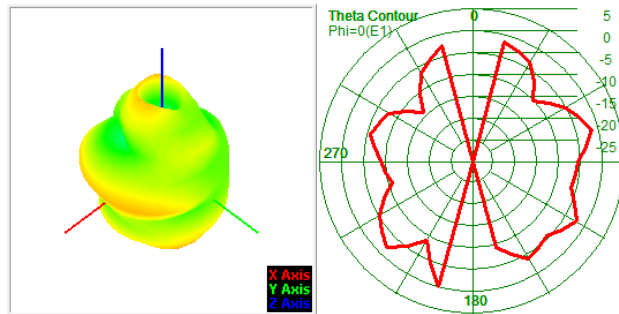
MAIN ANTENNA (PIFA):2G/3G/4G



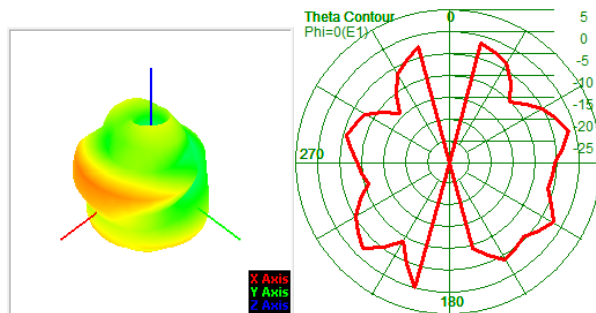
W1



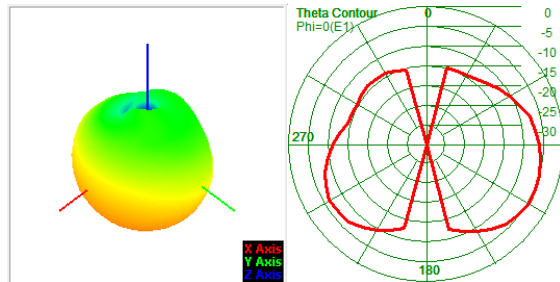
W2



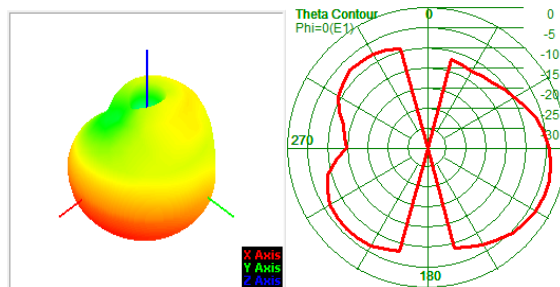
W4



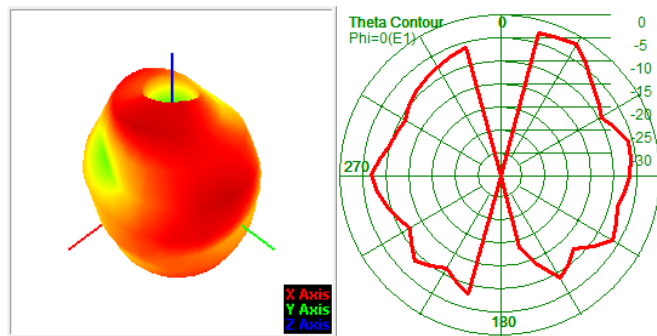
W5



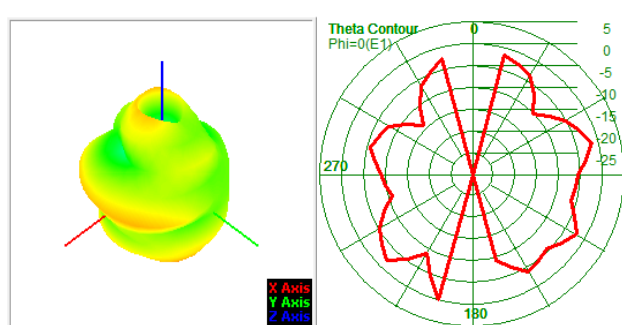
W8



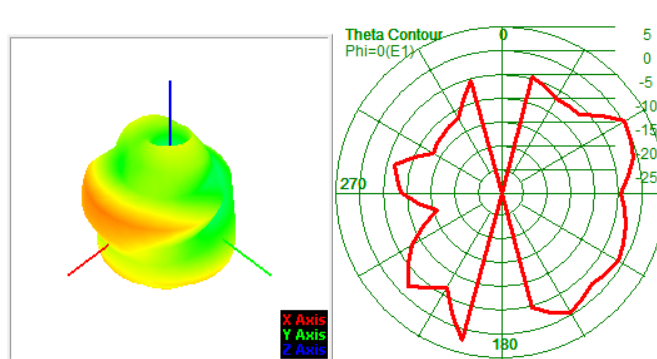
FDD-B1



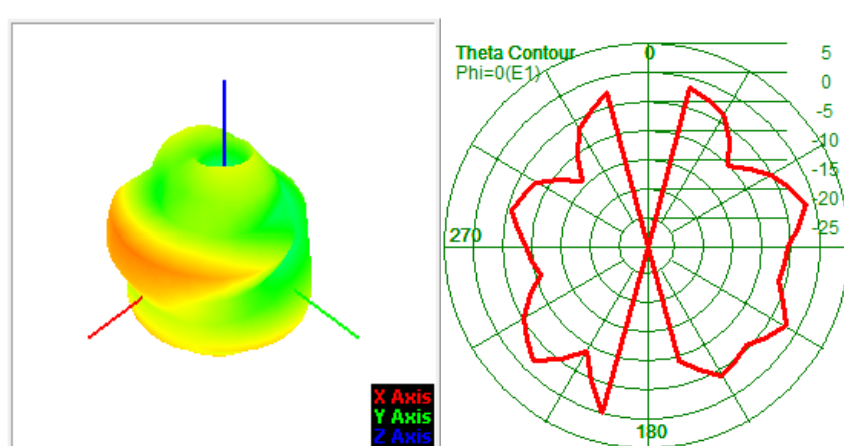
FDD-B2



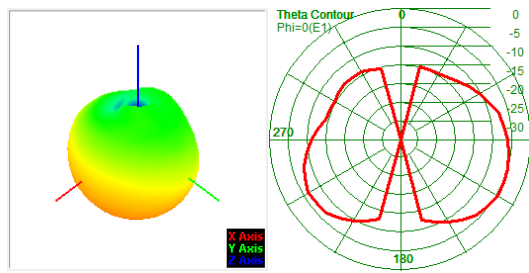
FDD-B3



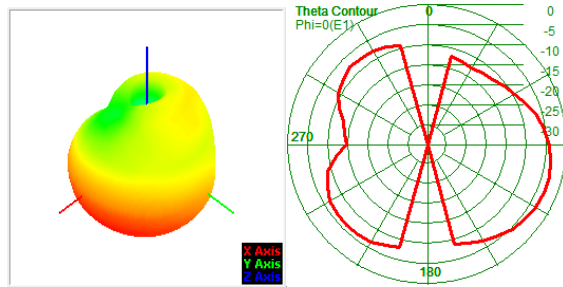
FDD-B4



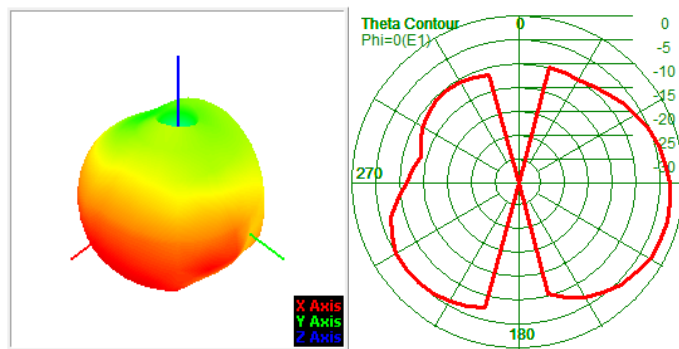
FDD-B5



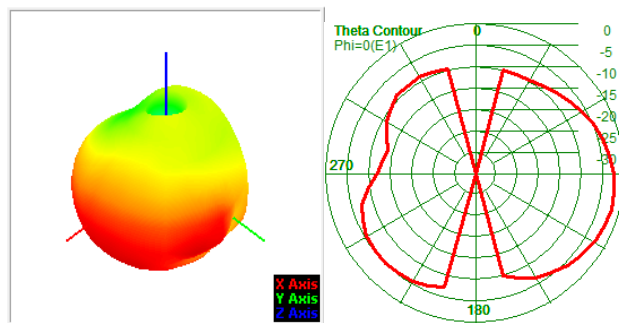
FDD-B8



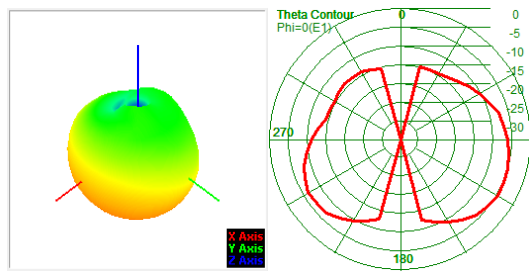
FDD-B12



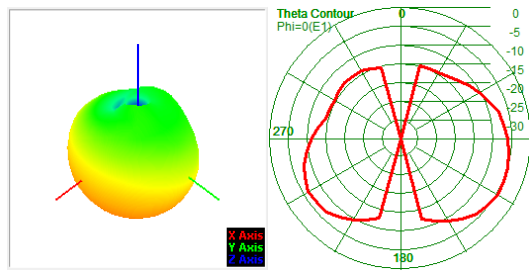
FDD-B17



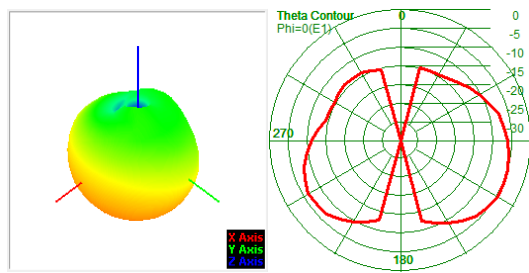
FDD-B18



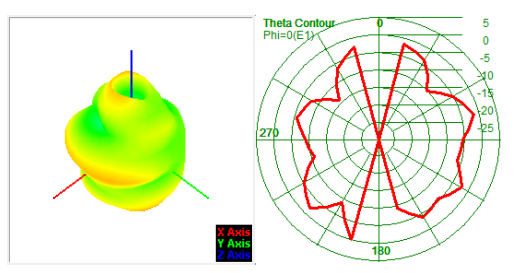
FDD-B19



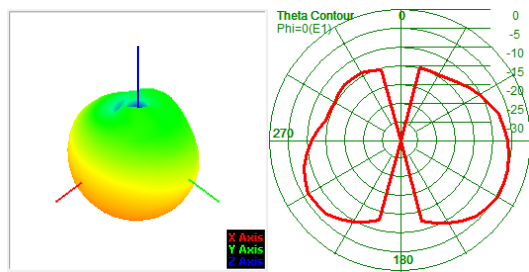
FDD-B20



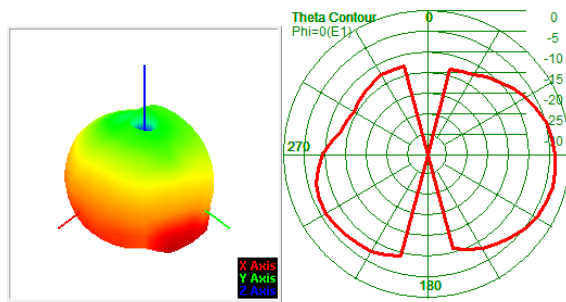
FDD-B25



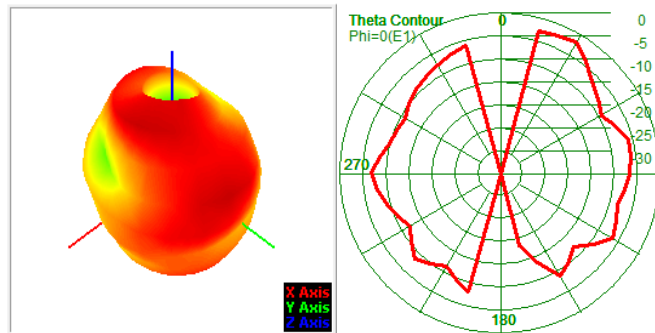
FDD-B26



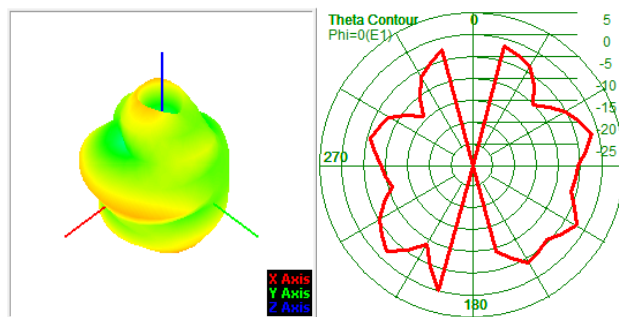
FDD-B28



FDD-B66

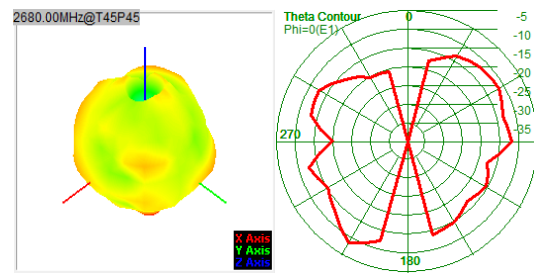


TDD-B39

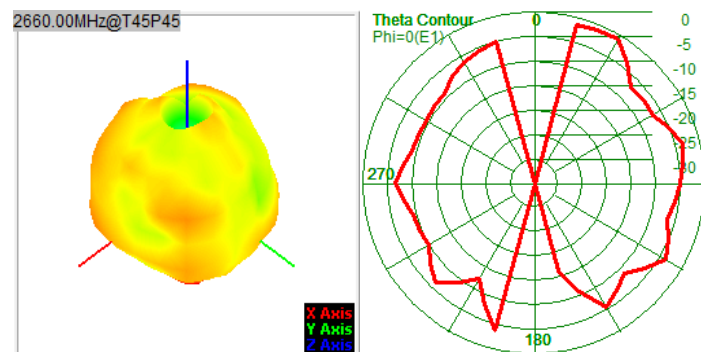


DIV ANTENNA (PIFA): 4G

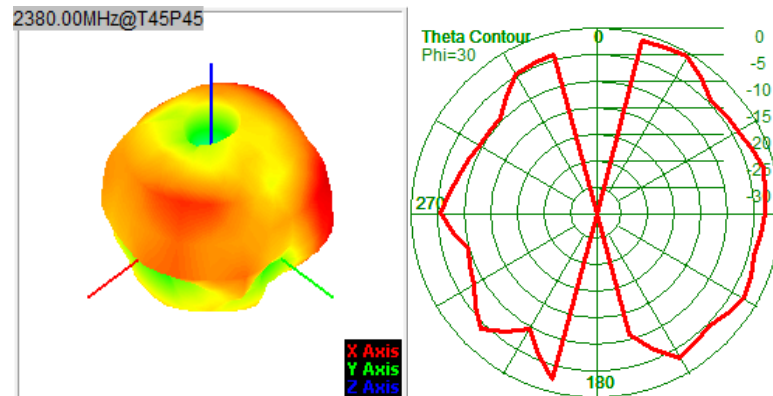
FDD-B7



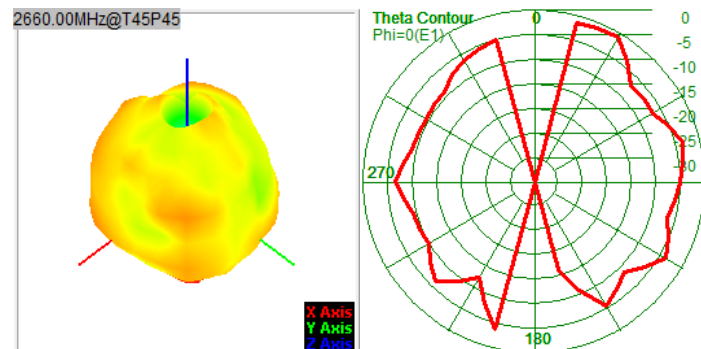
TDD-B38



TDD-B40

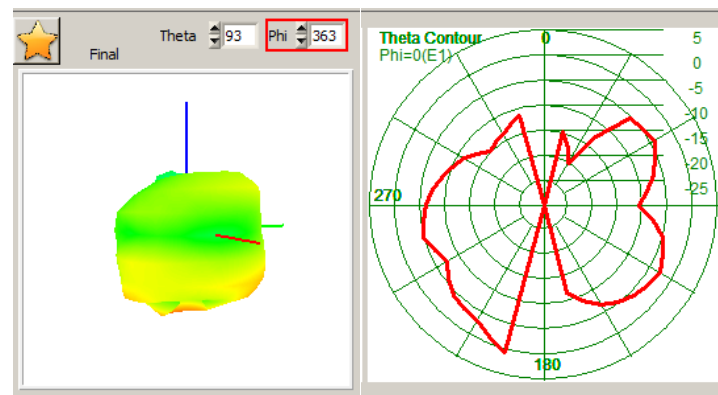


TDD-B41

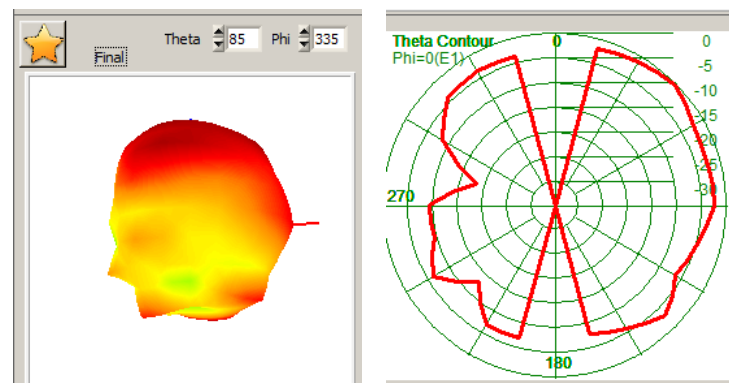


GPS/WIFI/BT ANTENNA (PIFA):L1/2.4GWIFI/5GWIFI/BT

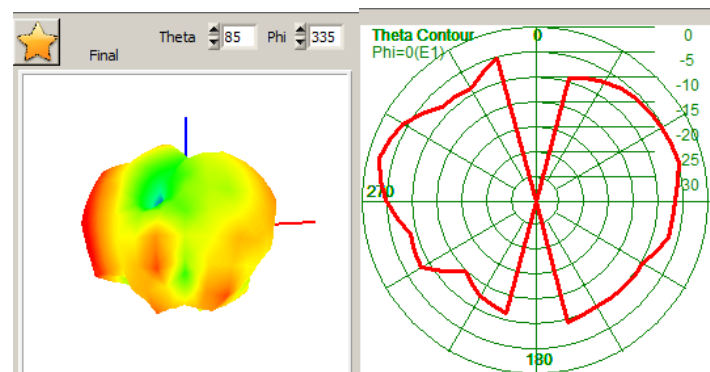
GPS



BT/WIFI-2.4



5.8G-WIFI



8.Introduction to Antenna Information

S6901	
Antenna type and frequency band	MAIN ANTENNA(PIFA):2G/3G/4G DIV ANTENNA(PIFA): 4G GPS/WIFI/BT ANTENNA(PIFA):L1/2.4GWIFI/5G WIFI/BT
Antenna materia	FPC

