

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Client Name: OUQI

Project Name: P06

Frequency Band: GSM B2/3/5/8+WCDMA B1/2/4 /

5/8+FDD B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28

AB/66+TDD38/39/40/41

RF: FU LIANG CHENG (137 6016 7811)

1.Test Project

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

2. Test Equipment



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

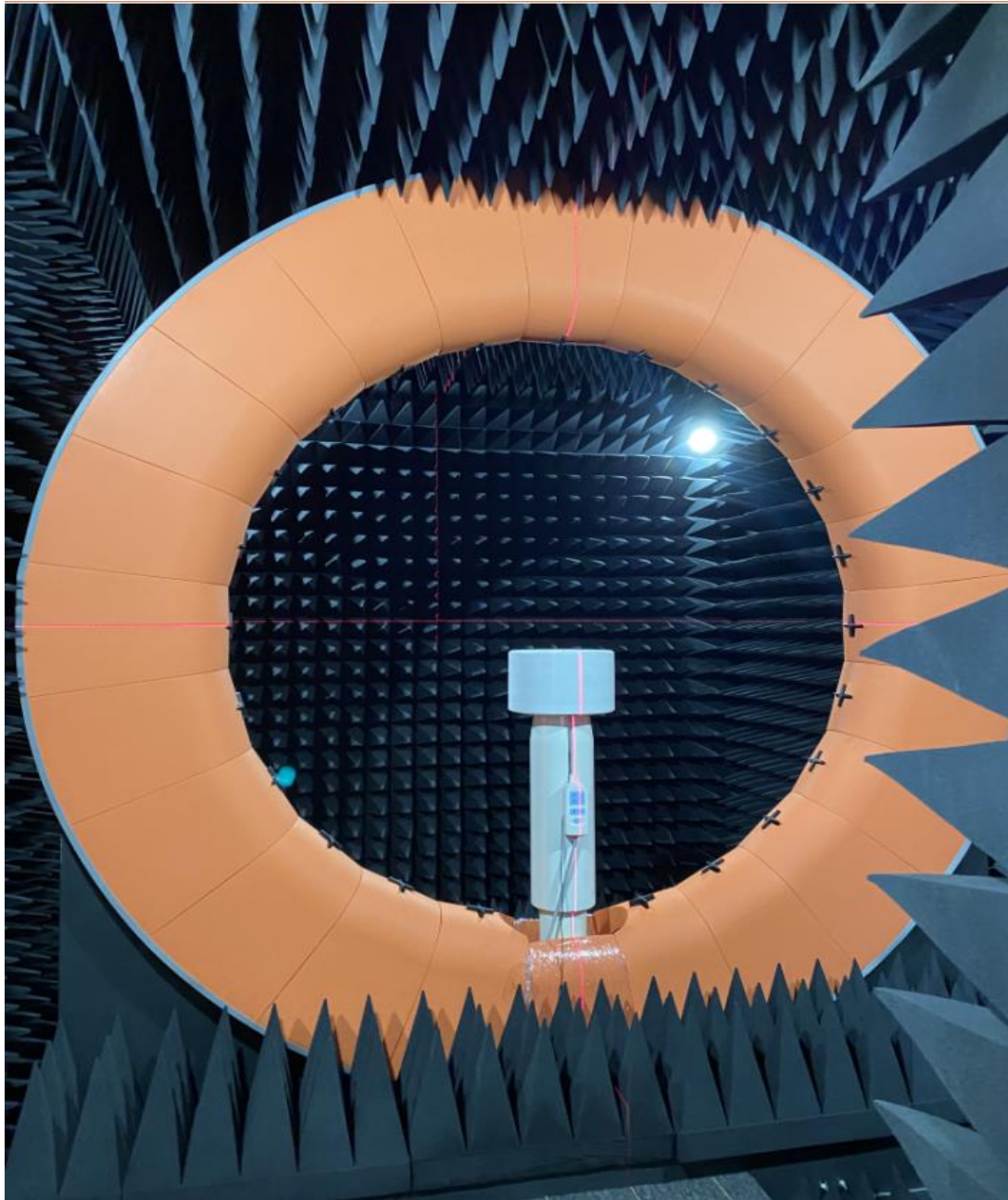


Agilent 8960 (2G/3G Test Equipment)



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

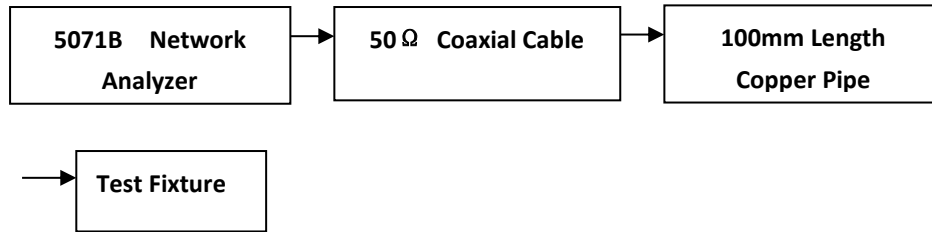
3. TestEnvironment



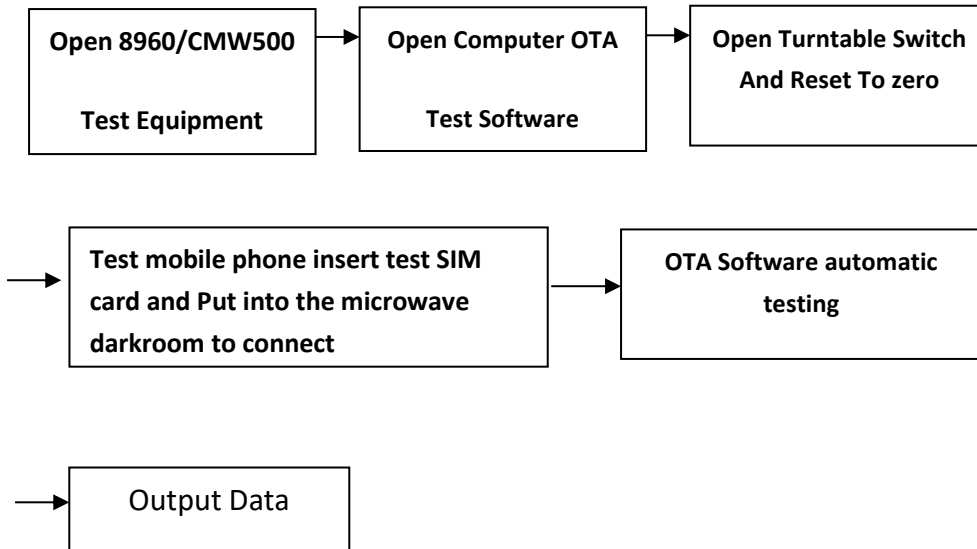
Microwave Anechoic Chamber

4. Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



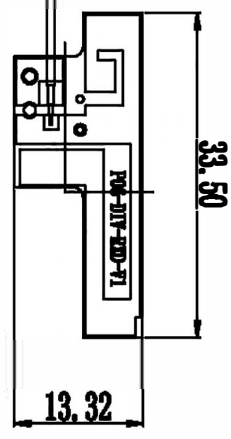
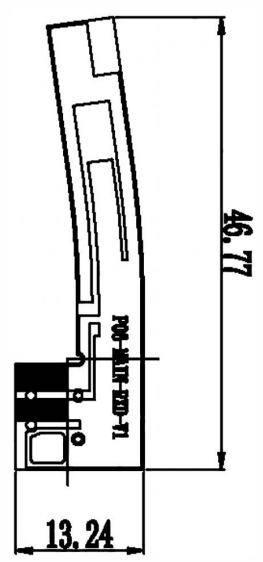
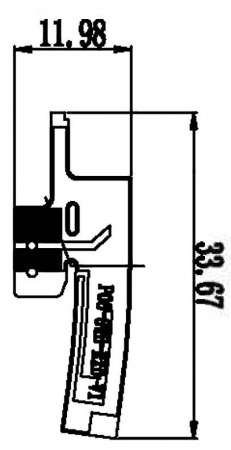
1

2

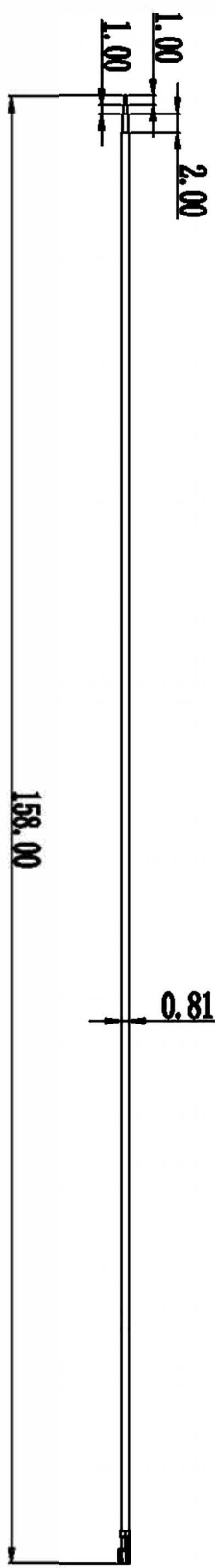
3

4

修改内容	修改者	修改日期



天线此方向端子口朝下



芯线与编织网需上锡

NOTES:

D

A

D


A

1

2

3

4

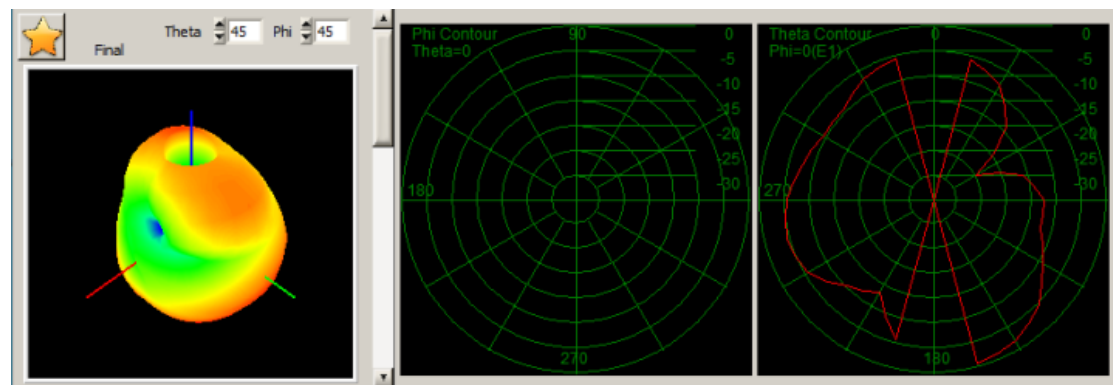
 单位: mm 公差: I .1 ±0.5 .II ±0.25 .III ±0.05 .IV ANGULAR ± 0.5°	名称: PO6-PC 设计: 材料: PI 表面处理: 颜色: 黑色/银白色 比例: 1:1 版本: A
审核: 确认:	设计: 审核: 确认:

6. Antenna Gain

Band	Max Gain	Efficiency
GSM850	-0.13	37%
GSM900	1.2	42%
DCS1800	0.03	35%
PCS1900	-0.05	34%
WCDMA2100	0.52	36%
WCDMA1900	-0.05	34%
WCDMA1700	0.03	35%
WCDMA850	-0.13	37%
WCDMA900	1.2	42%
BAND 1	0.52	36%
BAND 2	-0.05	34%
BAND 3	0.03	35%
BAND 4	0.03	35%
BAND 5	-0.13	37%
BAND 7	0.22	46%
BAND 8	1.2	42%
BAND 12	-0.13	23%
BAND 17	-0.13	23%
BAND 18	-0.13	37%
BAND 19	0.11	39%
BAND 20	-0.15	36%
BAND 25	0.03	35%
BAND 26	-0.13	37%
BAND 28	-0.13	23%
BAND 66	0.03	35%
BAND 38	0.2	43%
BAND 39	-0.05	34%
BAND 40	0.62	41%
BAND 41	0.2	43%
Bluetooth	0.33	40%
WIFI-2.4G	0.33	40%
WIFI-5.8G	0.24	32%
GPS	1.15	48%

7.3D Lobe Diagram (1)

GSM850



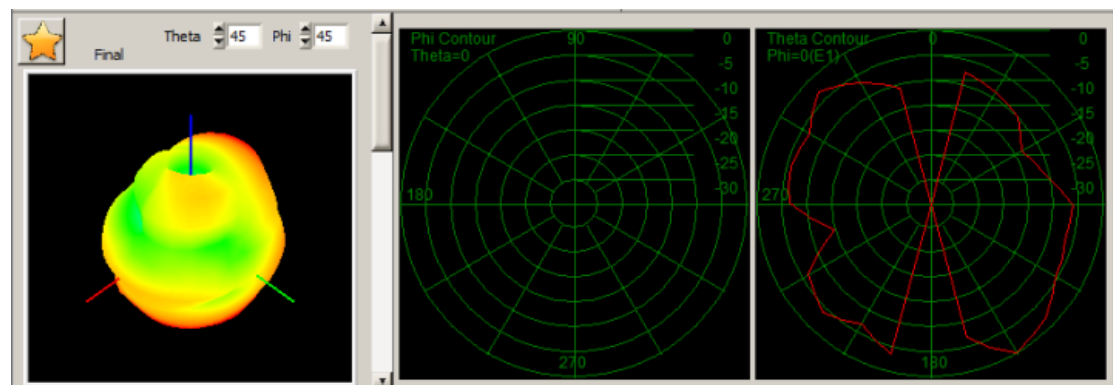
GSM900



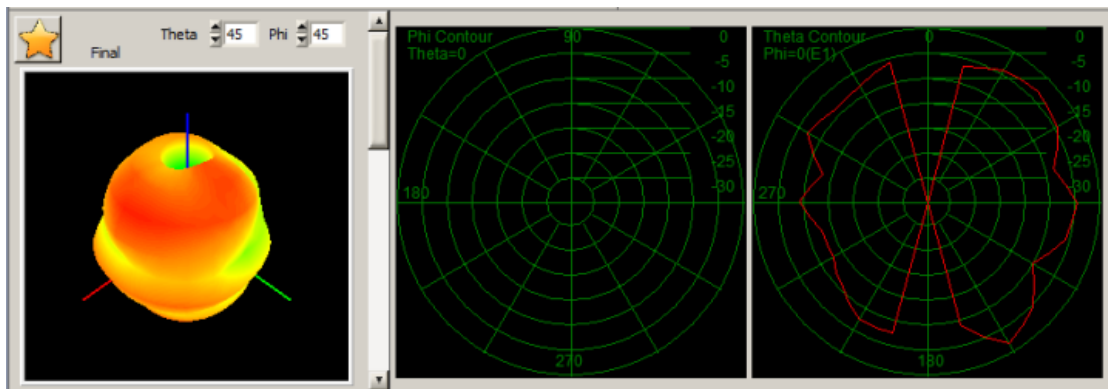
DSC1800



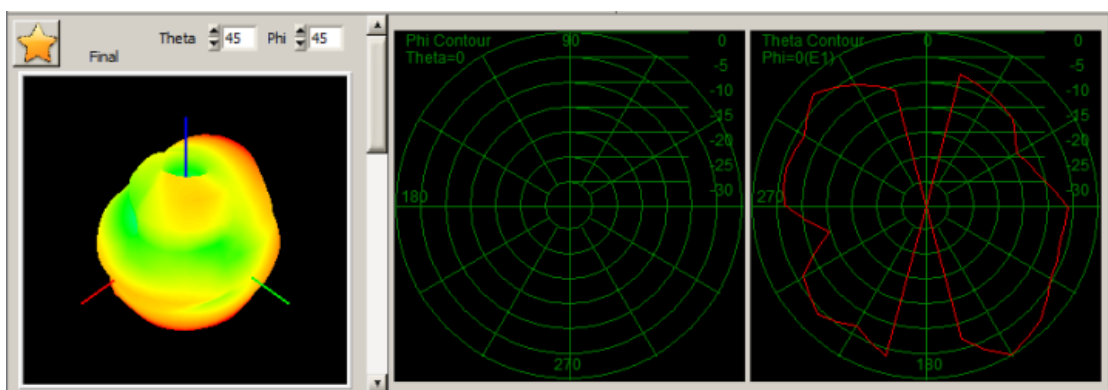
PCS1900



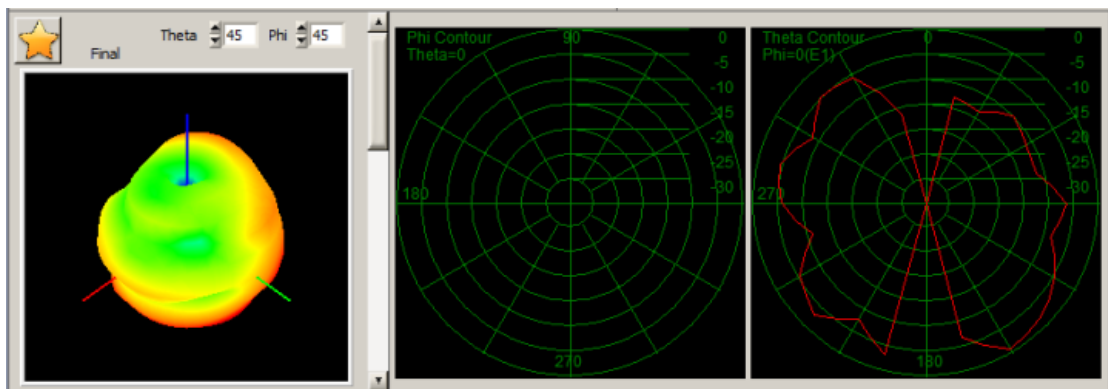
W2100



W1900



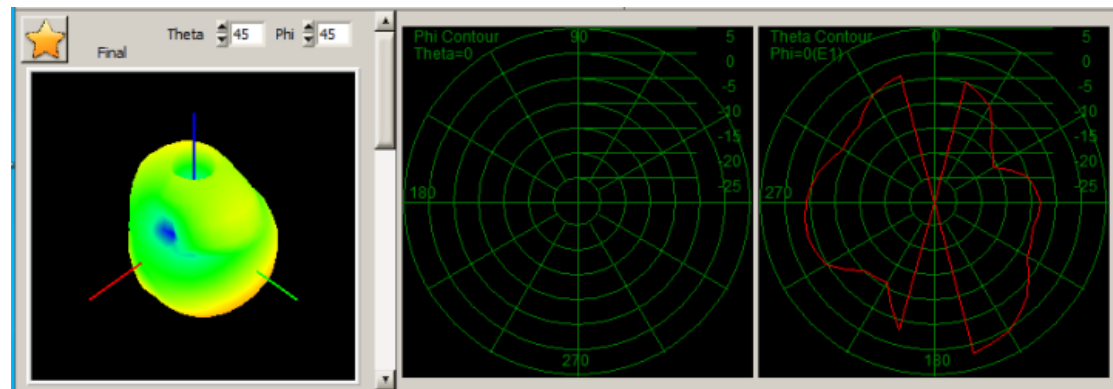
W1700



W850



W900



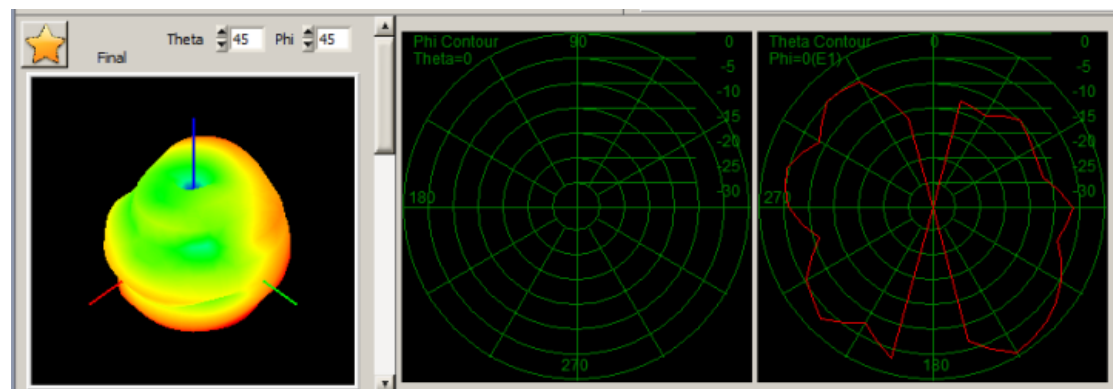
FDD-B1



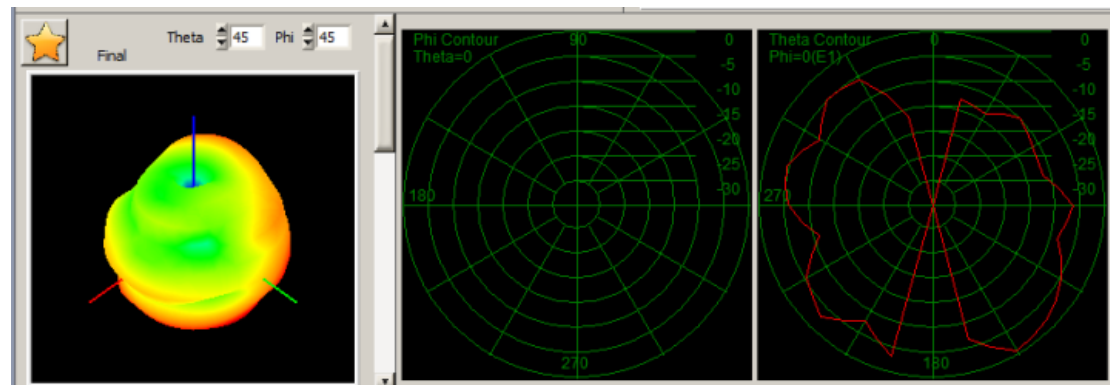
FDD-B2



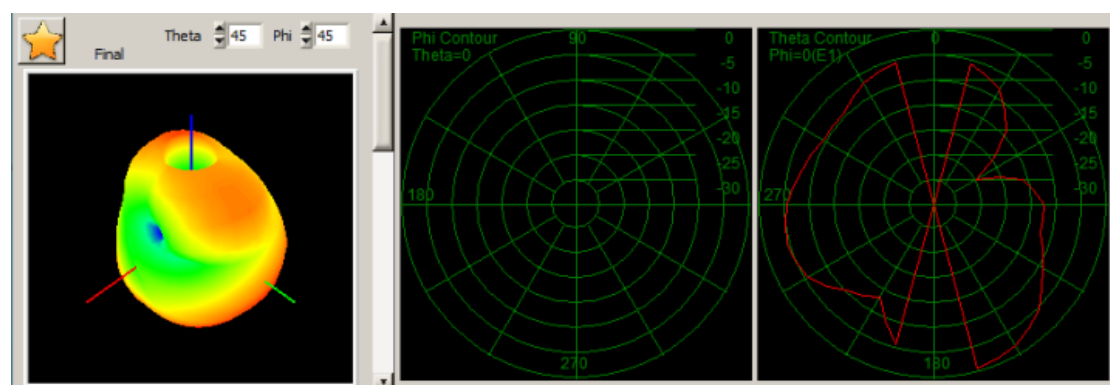
FDD-B3



FDD-B4



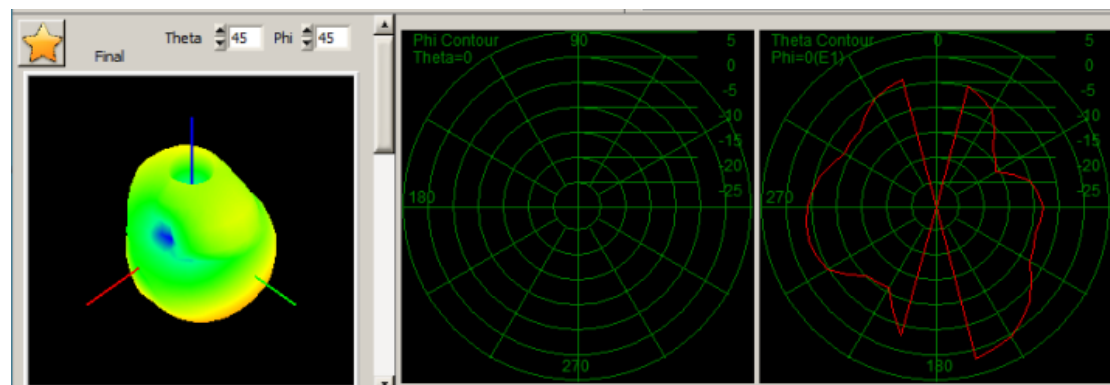
FDD-B5



FDD-B7



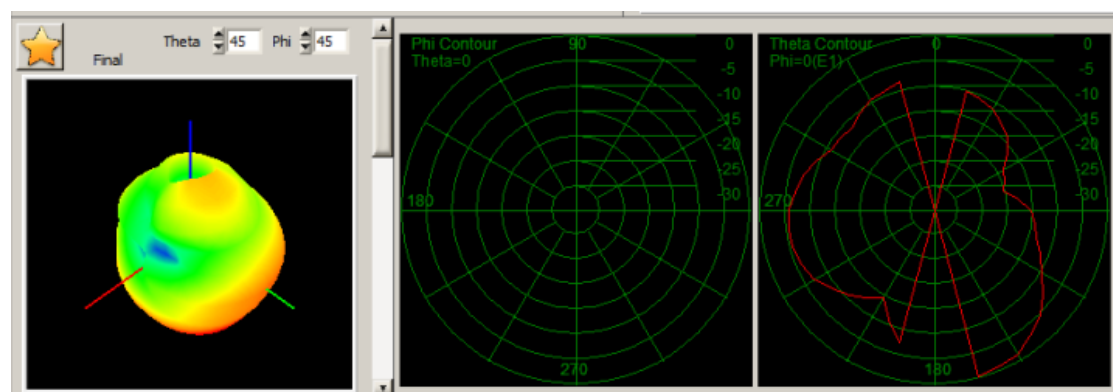
FDD-B8



FDD-B12



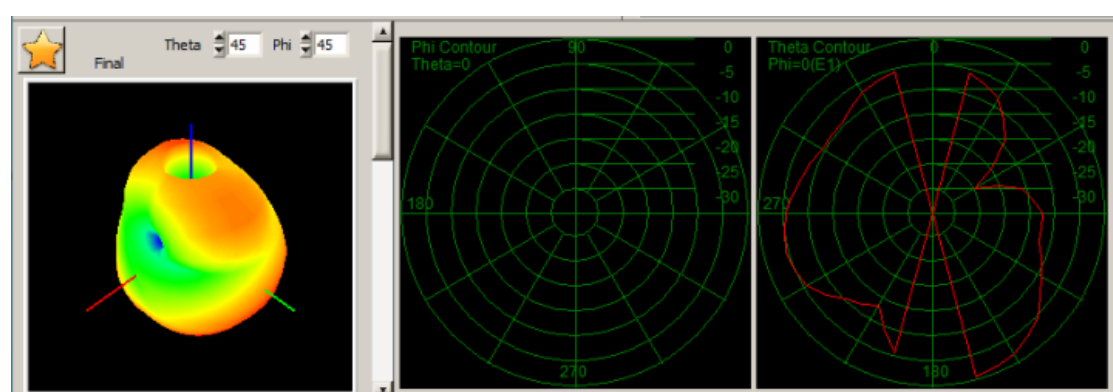
FDD-B17



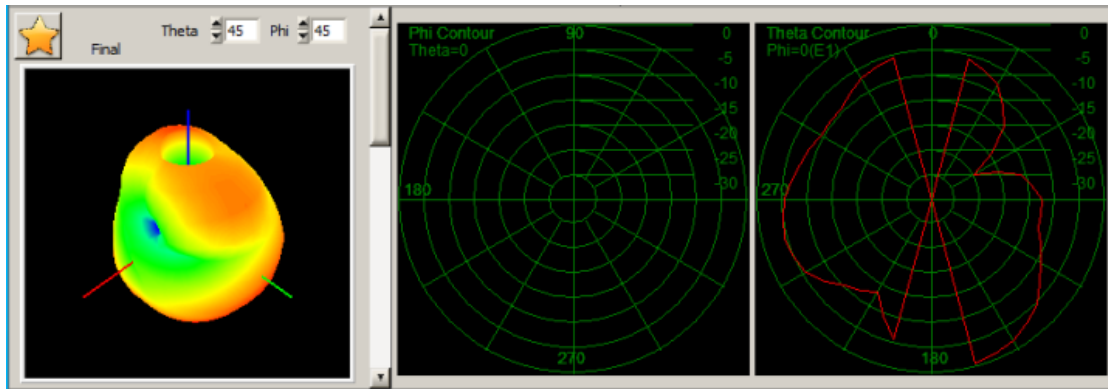
FDD-B18



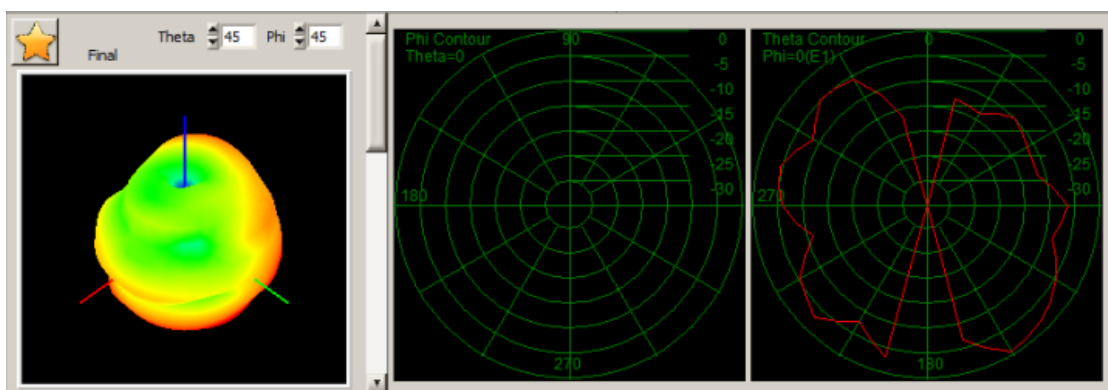
FDD-B19



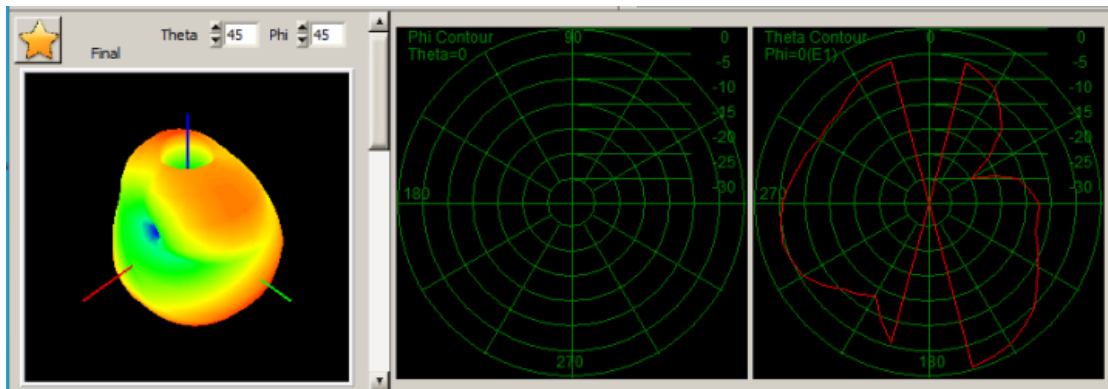
FDD-B20



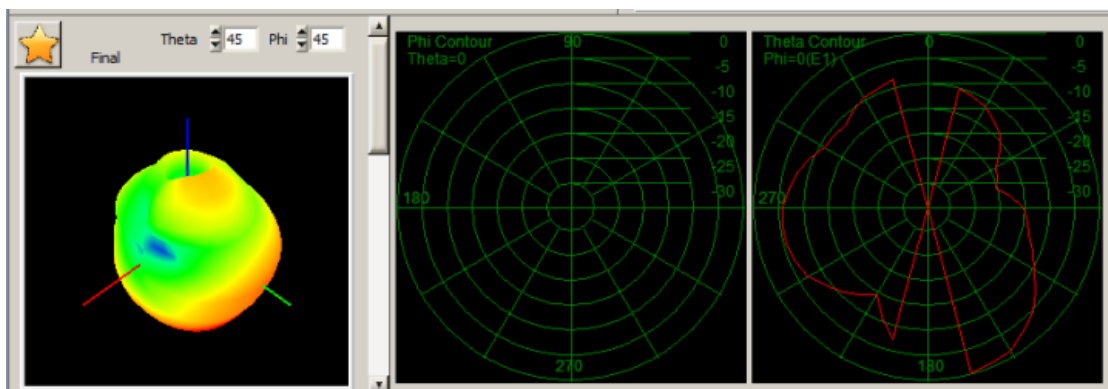
FDD-B25



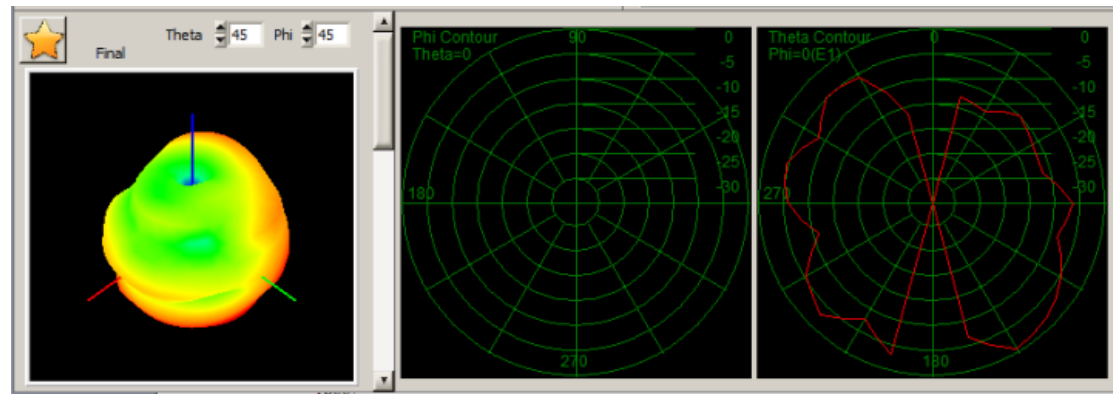
FDD-B26



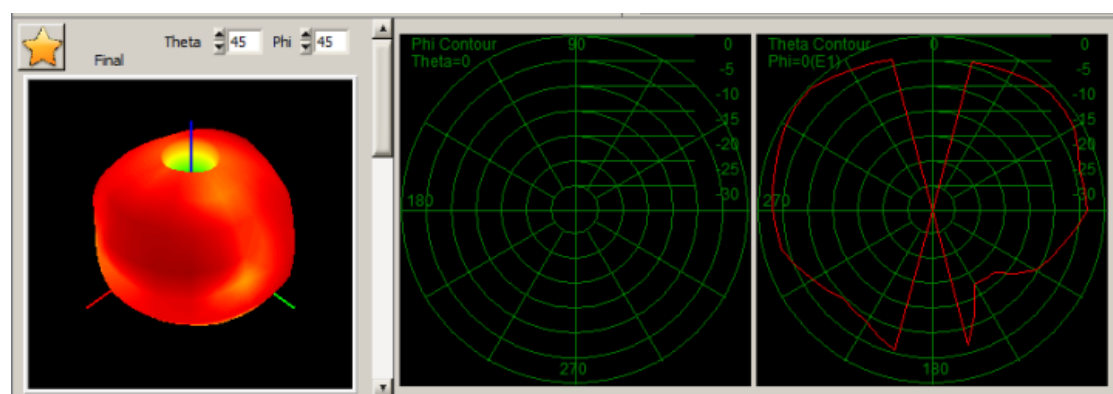
FDD-B28



FDD-B66



TDD-B38



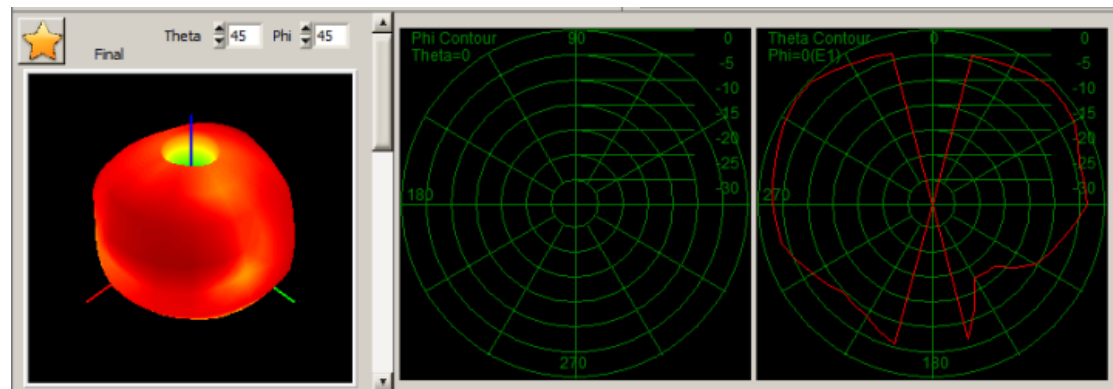
TDD-B39



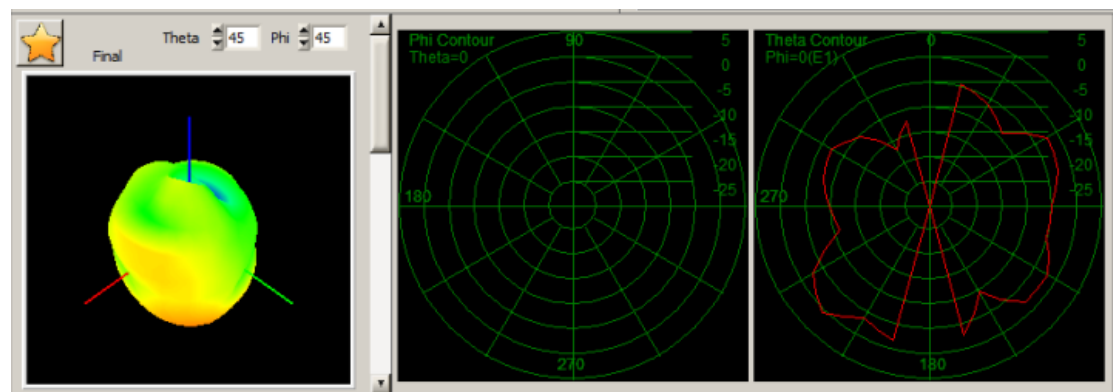
TDD-B40



TDD-B41



GPS



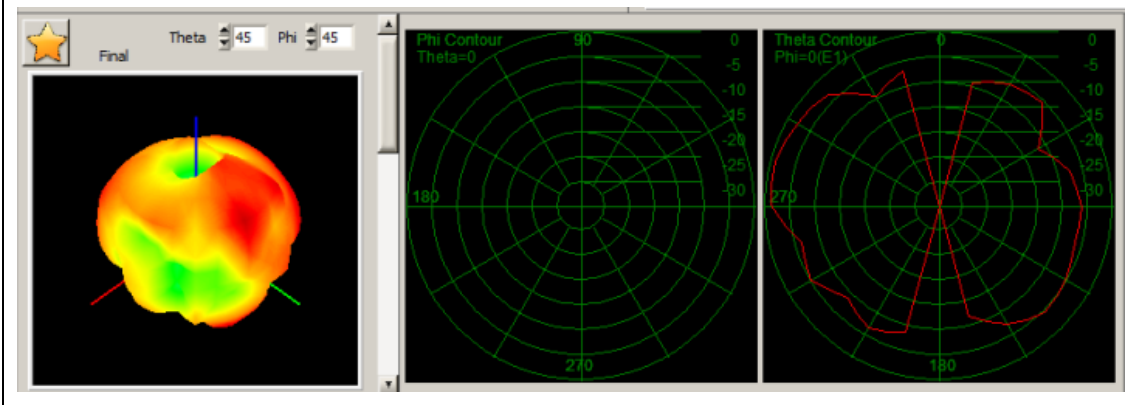
BT



2.4G-WIFI



5G-WIFI



8. Antenna OTA

FS-OTA									
BAND	GSM850			GSM900			DCS1800		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	27.3	27.5	27.8	27.8	28.1	28.5	24.8	25.2	25.5
TIS(dBm)	-103.3	-103.2	-103.0	-105.0	-104.5	-104.3	-103.3	-103.1	-102.6
BAND	PCS1900			WCDMA850			WCDMA900		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	25.1	25.0	24.8	18.2	18.5	18.8	19.2	19.2	19.2
TIS(dBm)	-103.2	-103.0	-102.7	-105.0	-104.8	-104.6	-105.6	-105.9	-104.8
BAND	WCDMA1700			WCDMA1900			WCDMA2100		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	17.2	17.6	18.1	18.6	18.9	18.5	17.8	17.6	17.2
TIS(dBm)	-105.1	-105.0	-104.6	-106.2	-106.0	-105.8	-105.8	-105.6	-105.3
BAND	TDD-B38			TDD-B39			TDD-B40		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	18.6	18.6	18.8	18.3	18.2	18.1	18.8	18.8	18.6
TIS(dBm)	-91.5	-91.3	-91.0	-90.3	-90.2	-89.8	-90.5	-90.3	-90.2

BAND	TDD-B41			FDD-B1			FDD-B2		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	18.8	18.6	18.5	18.6	18.2	18.0	18.0	17.8	17.6
TIS(dBm)	-90.5	-90.3	-90.2	-93.1	-93.0	-92.3	-91.5	-91.3	-91.1

FS-OTA									
BAND	FDD-B3			FDD-B4			FDD-B5		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	18.1	18.5	19.2	17.2	17.5	18.1	18.5	18.8	19.0
TIS(dBm)	-91.5	-91.1	-90.8	-92.5	-92.2	-91.8	-94.3	-94.2	-94.0
BAND	FDD-B7			FDD-B8			FDD-B12		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	18.6	18.6	18.7	19.3	19.5	19.5	17.0	17.1	17.1
TIS(dBm)	-94.3	-94.0	-93.9	-95.0	-94.8	-94.7	-92.1	-91.6	-91.3
BAND	FDD-B17			FDD-B18			FDD-B19		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	17.0	17.5	17.3	17.5	17.6	17.6	18.1	18.2	18.3
TIS(dBm)	-91.5	-91.3	-91.1	-93.6	-93.2	-93.0	-93.6	-93.3	-93.2
BAND	FDD-B20			FDD-B25			FDD-B26		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	18.2	18.3	18.7	18.0	18.1	18.3	18.1	18.5	18.8
TIS(dBm)	-93.1	-92.6	-92.2	-92.0	-91.3	-90.6	-93.9	-93.6	-93.3
BAND	FDD-B28A			FDD-B28B			FDD-B66		
CHANNEL	L	M	H	L	M	H	L	M	H
TRP(dBm)	16.8	17.1	17.2	17.3	17.6	17.3	17.3	17.6	18.1
TIS(dBm)	-92.2	-92.2	-92.3	-92.3	-92.1	-91.8	-92.1	-91.8	-91.6