ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Project Name： F110 Pro

Frequency Band:

GSM: B2/B3/B5/B8

WCDMA: B1/B2/B4/B5/B6/B8/B19

TDD: BB38/B40/B41

FDD: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28AB/66

NR: n1/3/5/8/20/28/38/41/77/78

DATE： 2025-04-07

ADDRESS： Room503-505,Building211,

Tairan IndustrialandTradePark,Chegongmiao,FutianDistrict,Shenzhen

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

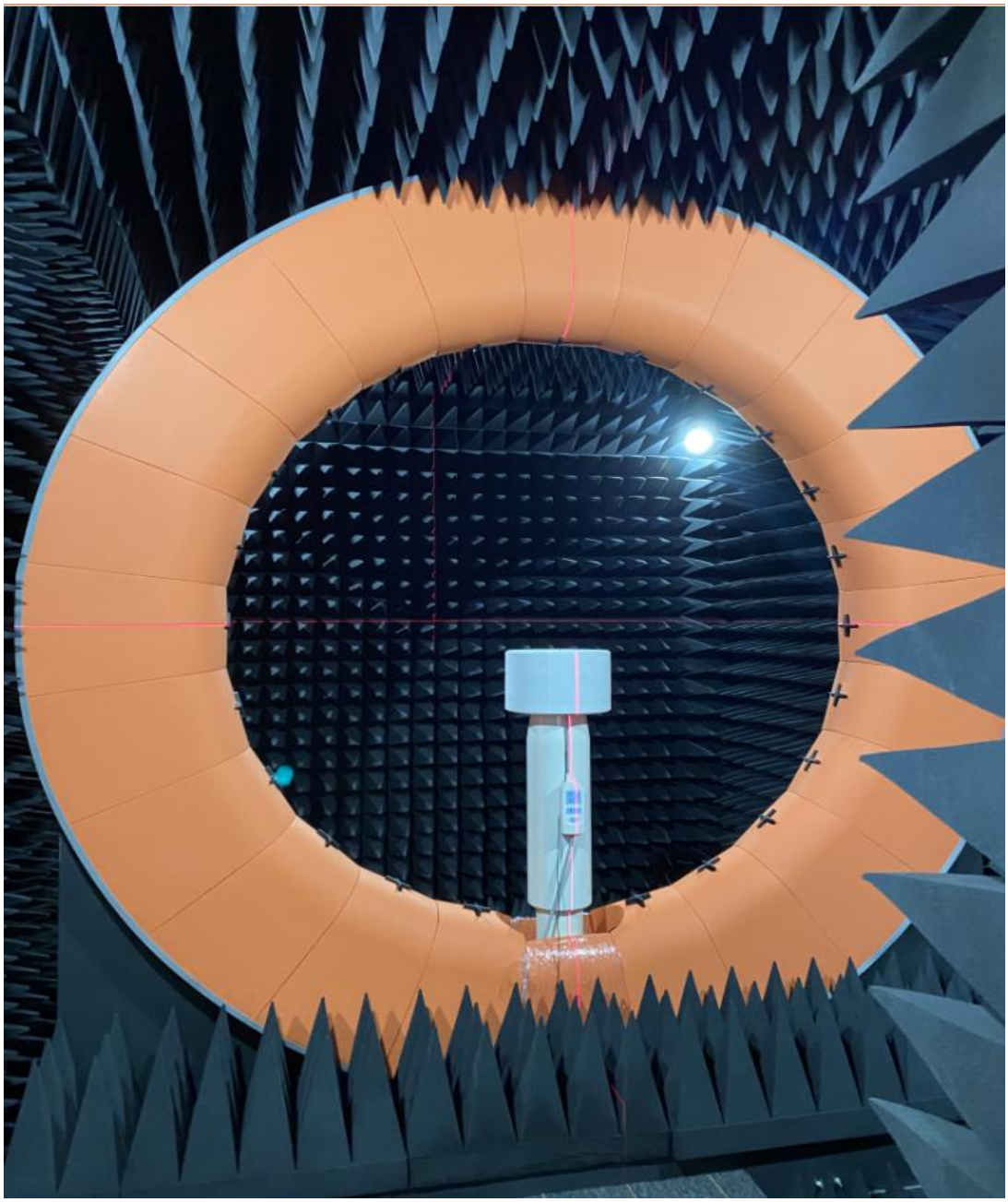
2.Test Equipment

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

Agilent 8960 （2G/3G Test Equipment）

CMW 500 （2G/3G/4GTest Equipment）

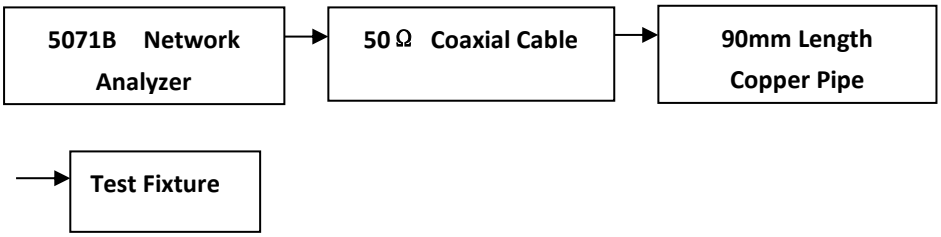
3. TestEnvironment



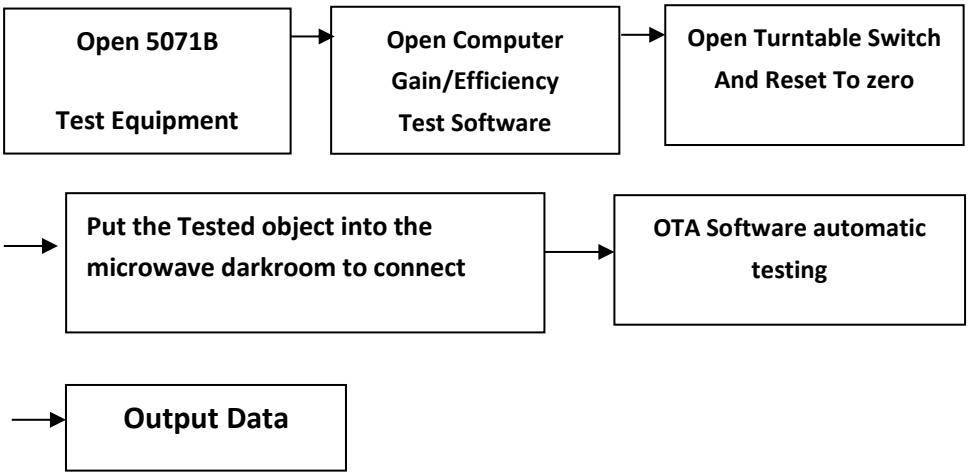
Microwave Anechoic Chamber

4.Test Steps

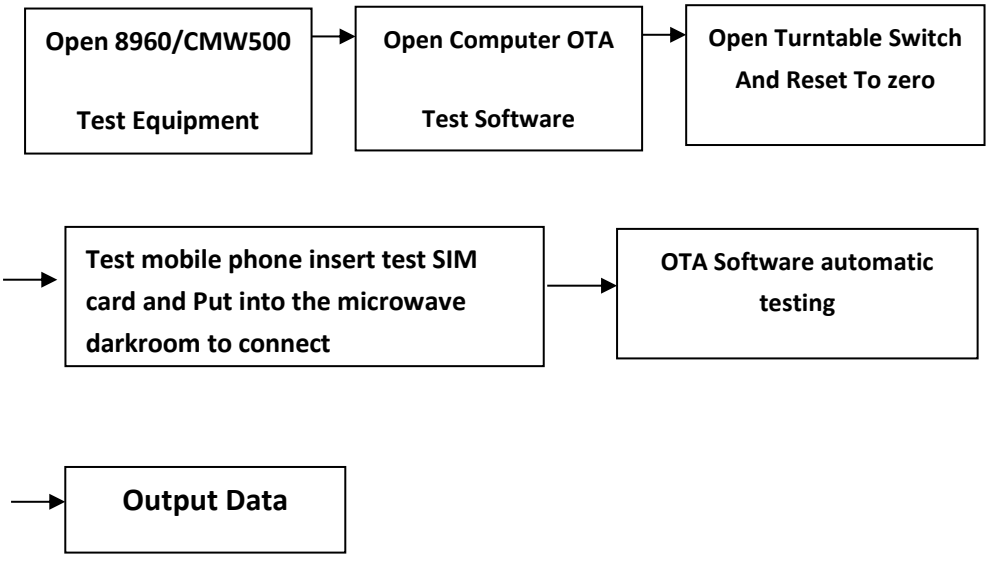
Passive VSWR/RL Test Steps:



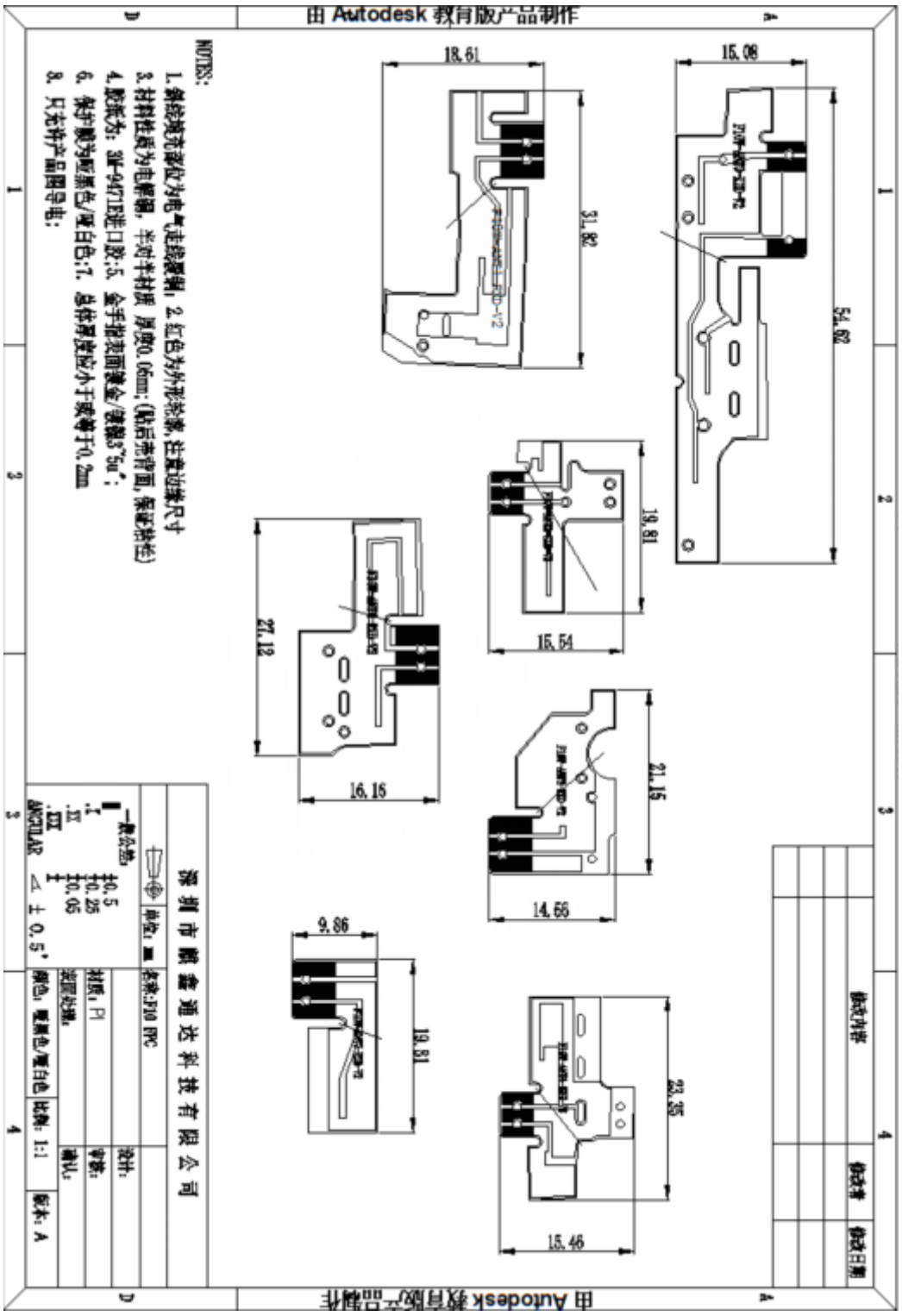
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps：

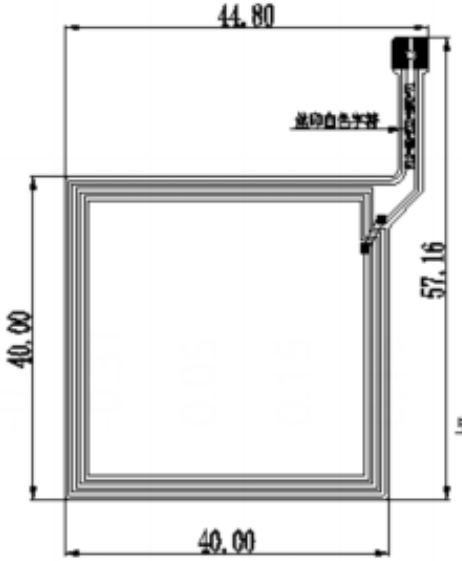


5. Antenna Dimensions

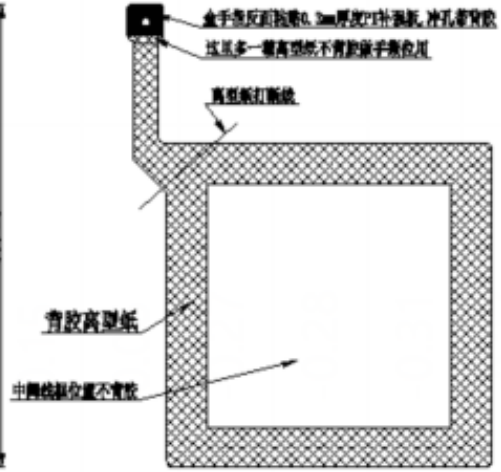


	修改内容	修改者	修改日期

样品正面



样品反面（背胶面）



铁氧体粘贴在NFC天线正面

NOTES:

1. 斜线填充部位为电气走线覆铜；2. 红色为外形轮廓，注意边缘尺寸
3. 材料性质为电解铜，半对半材质 厚度0.05mm；(贴后壳背面，保证粘性)
4. 胶纸为：3M-9471E进口胶；5. 金手指表面镀金/镀镍3"5u"；
6. 保护膜为哑黑色/哑白色；7. 总体厚度应小于或等于0.2mm
8. 只充许产品图导电；

深圳市麒鑫通达科技有限公司			
单位：mm	名称:F13 NFC		
一般公差:		设计:	
.X ±0.5	材质：PI	审核:	
.XX ±0.25	表面处理:	确认:	
.XXX ±0.05			
ANGULAR ∠ ± 0.5°	颜色：哑黑色/哑白色	比例：1:1	版本：A

由 Autodesk 教育版产品制作

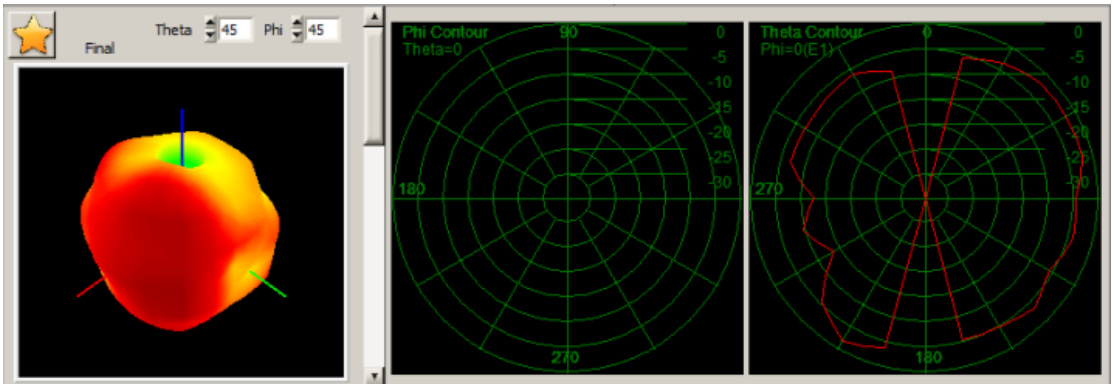
6.Antenna Gain

WIFI2.4G/BT												
2400-2500MHZ	Frequency ID	1	2	3	4	5	6	7	8	9	10	11
	Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
	Efficiency (%)	31.00	33.20	35.60	35.80	36.60	37.10	35.60	35.20	35.10	35.00	34.20
	Gain (dBi)	-0.40	-0.38	-0.19	-0.15	0.15	0.22	-0.16	-0.23	-0.25	-0.30	-0.35

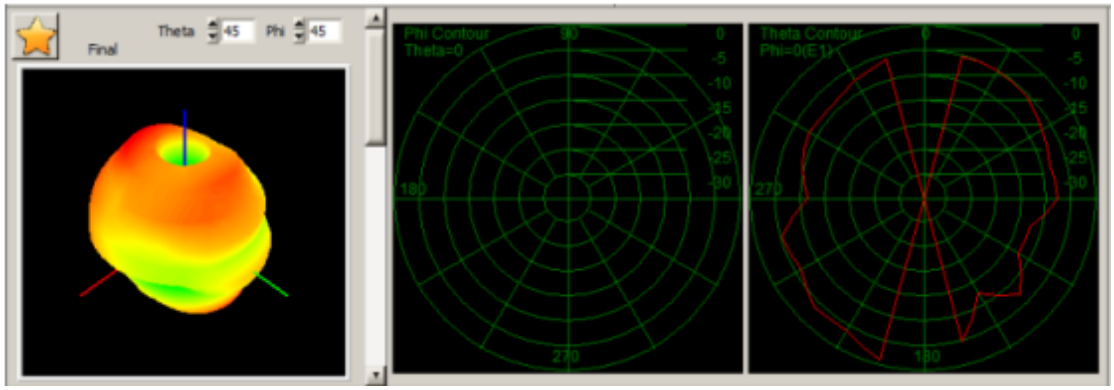
5.1-5.8GWiFi										
2400-2500MHZ	Frequency ID	1	2	3	4	5	6	7	8	9
	Frequency (MHz)	5000.0	5100.0	5200.0	5300.0	5400.0	5500.0	5600.0	5700.0	5800.0
	Efficiency (%)	35.10	36.20	35.10	34.00	35.30	34.80	34.40	29.50	27.60
	Gain (dBi)	-0.19	-0.12	-0.07	-0.21	0.22	0.40	-0.23	-0.82	0.03

7.3D Lobe Diagram

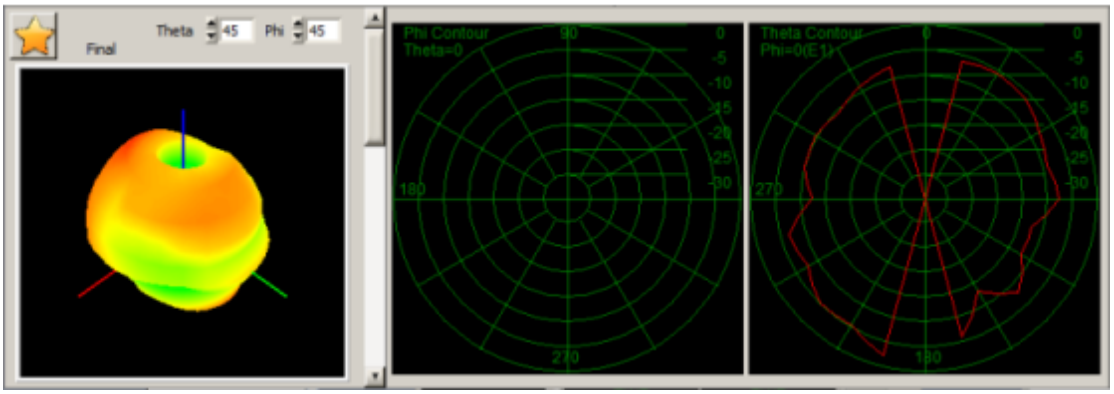
2.4G-WIFI



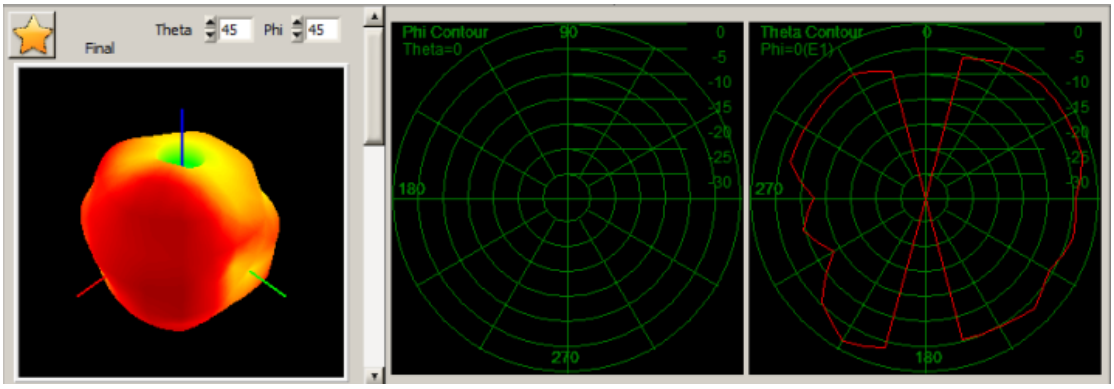
5.1G-WIFI



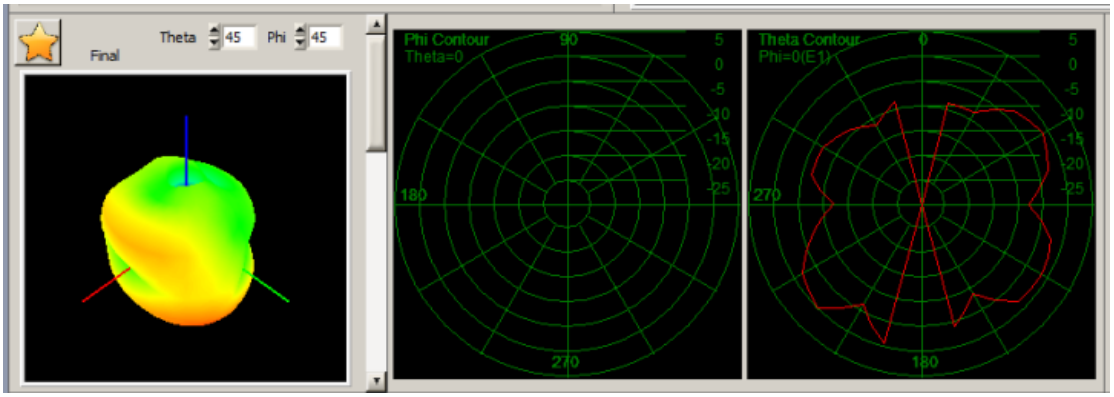
5.1G-WIFI



BT



GPS

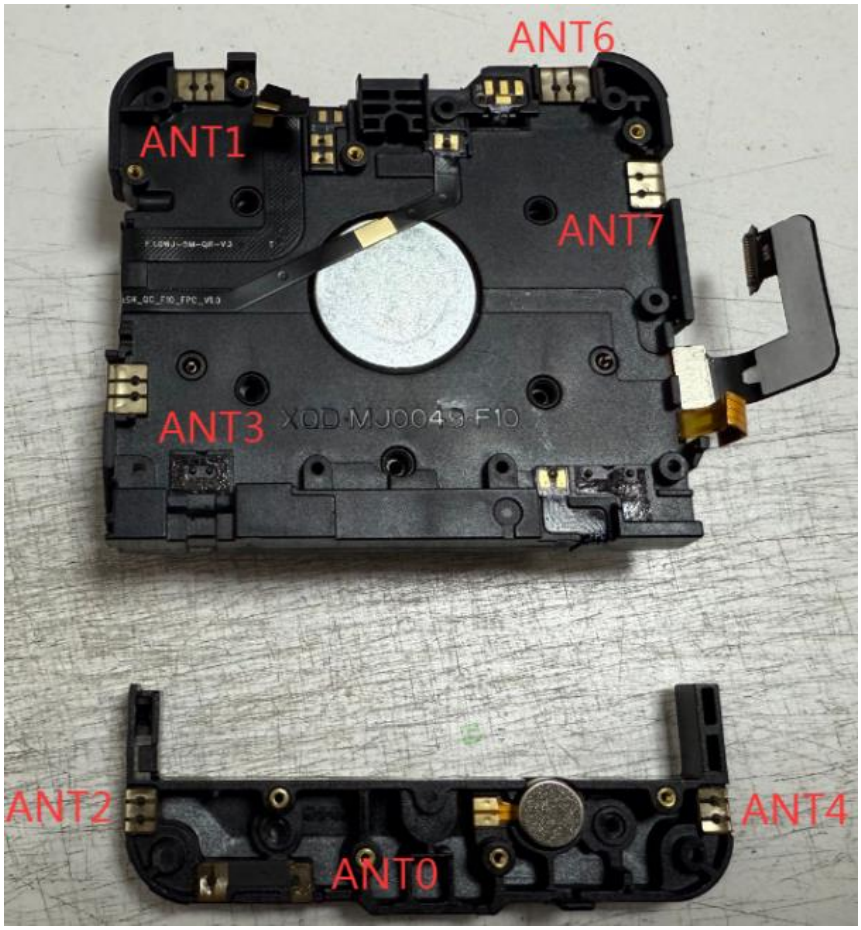


8.Antenna model and type

Band	Model	Type
BT	F10W-BWG	PIFA
2.4G WIFI	F10W-BWG	PIFA
5.1-5.8G WIFI	F10W-BWG	PIFA
GPS	F10W-BWG	PIFA
NFC	F10W-NFC	PIFA
Main Antenna	F10W-MAIN	PIFA
Diversity Antenna	F10W-LTE	PIFA

9. Antenna distribution map

GSM: B2/3/5/8 WCDMA: B1/2/4/5/6/8/19 TDD: 38/40/41 FDD: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28AB/66 5G: N1/2/3/5/8/20/28/71/38/41/77/78								
		ANT0	ANT1	ANT2	ANT3	ANT4	ANT6	ANT7
LB 1T2R	GSM: B5/8 WCDMA: B5/6/8/19 4G: FDD: 5/8/12/13/17/18/19/20/26/28AB 5G: N5/8/20/28/71	T_P	D与ANT0 DPDT	/	/	/	/	/
MHB 1T2R	GSM: B2/3 WCDMA: B1/2/4 4G: TDD: 40 4G: FDD: B1/2/3/4/7/25/66 5G: N1/2/3	T_P	D与ANT0 DPDT	/	/	/	/	/
MHB 4RX	FDD: B1/3/4/66	PRX	DRX	MIMO1	/	MIMO2	/	/
MHB 1T4R SRS	4G: TDD: 38/41 5G: N38/41	/	DRX	MIMO1	T_P	MIMO2	/	/
SUB6 1T4R SRS	5G: N77/N78	/	/	MIMO1	T_P	MIMO2	DRX	/
WCN		/	/	/	/	/	/	L1+BT+WIFI(2.4G/5G)


ANT6
ANT1
ANT7
ANT3
XQD MJ0049 F10
ANT2
ANT4
ANT0

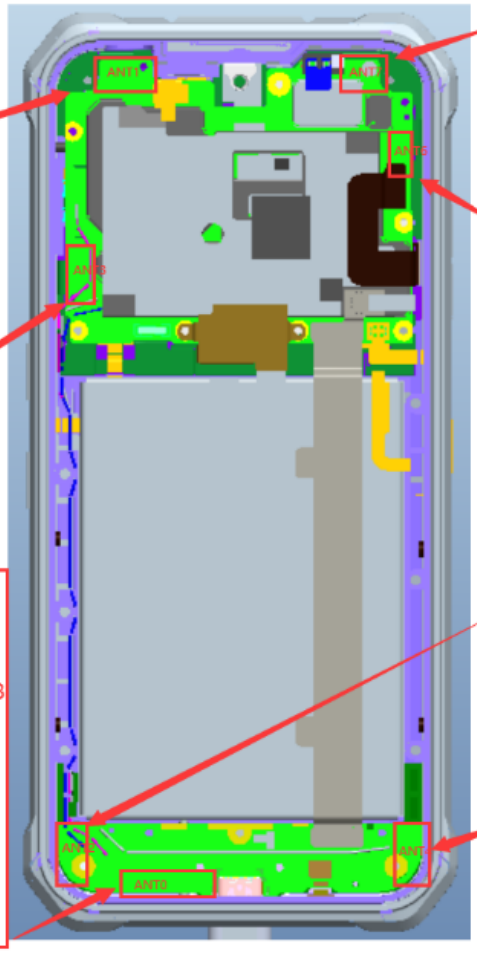
ANT1:TRX
GSM:B2/B3
WCDMA:B1/B2/B4
FDD:B1/B2/B3/B4/B7/B25/B66
TDD:B40
5G:N1/N2/N3

DRX:
GSM:B5/B8
WCDMA:B5/B6/B8/B19
FDD:B5/B8/B12/B13/B17/B28
5G:N5/N8/N28

ANT3:TRX
TDD:B38/B41
5G:N38/N41/N77/N78

ANT0:TRX
GSM:B5/B8
WCDMA:B5/B6/B8/B19
FDD:B5/B8/B12/B13/B17/B18/B19/B20/B26/B28
5G:N5/N8

DRX
GSM:B2/B3
WCDMA:B1/B2/B4
FDD:B1/B2/B3/B4/B7/B25/B66
TDD:B40/B41
5G:N1/N2/N3



ANT7:
(GPS-L1)+(BT-2.4G)+(WIFI-2.4G)
+(WIFI+5G)

ANT6:DRX
5G:N77/N78

ANT2:MIMO1
FDD:B1/B3/B4/B66
TDD:B38/B41
5G:N38/N41/N77/N78

ANT4:MIMO2
FDD:B1/B3/B4/B66
TDD:B38/B41
5G:N38/N41/N77/N78