

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

project: N66M1

Band:

GSM--B2/5

WCDMA--B2/5

LTE--B2/3/4/5/13/66

NR--N7/41/71/78

Design Engineer: Fu (137 6016 7811)

date: 2026-7-1

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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)

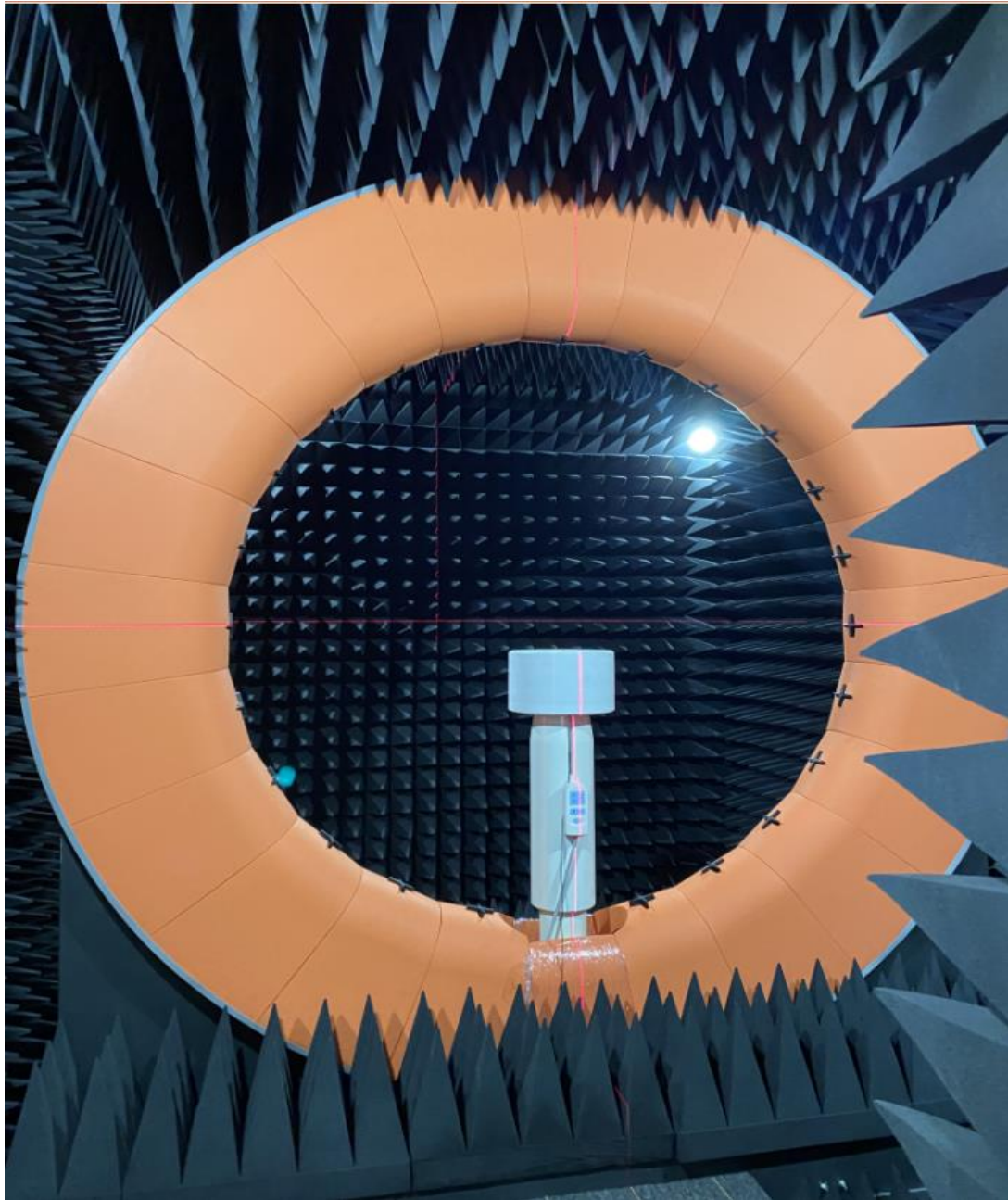


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

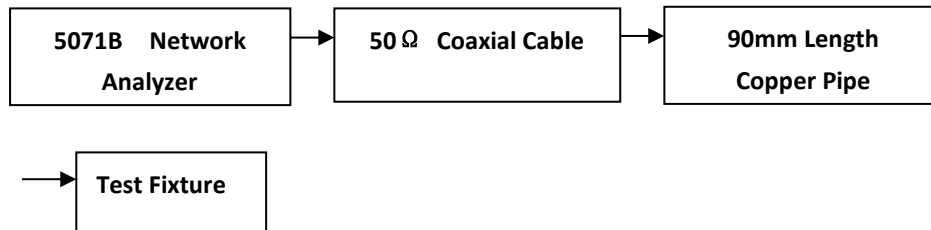
3. TestEnvironment



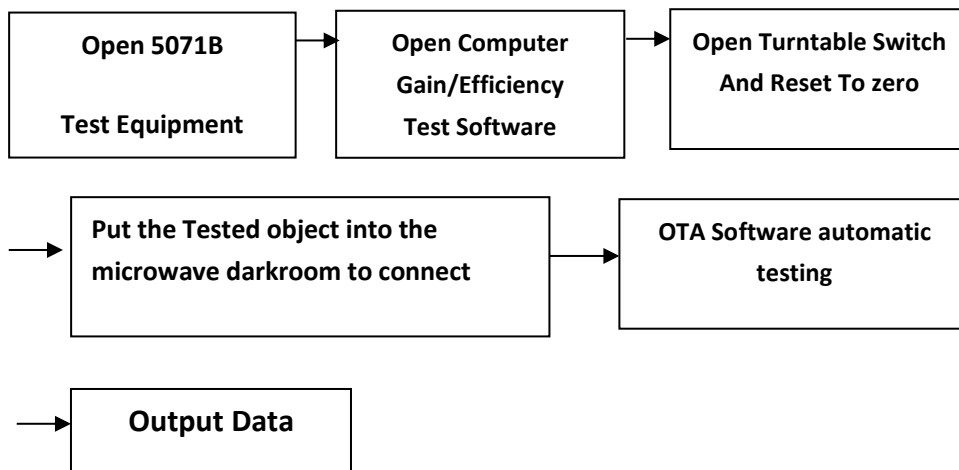
Microwave Anechoic Chamber

4.Test Steps

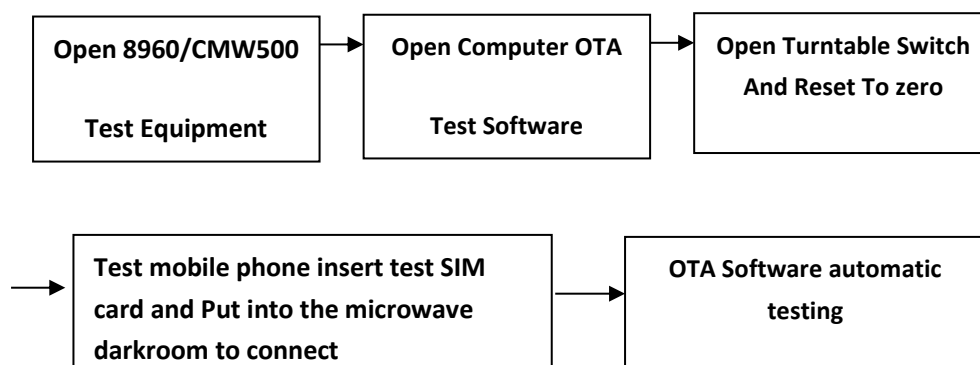
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



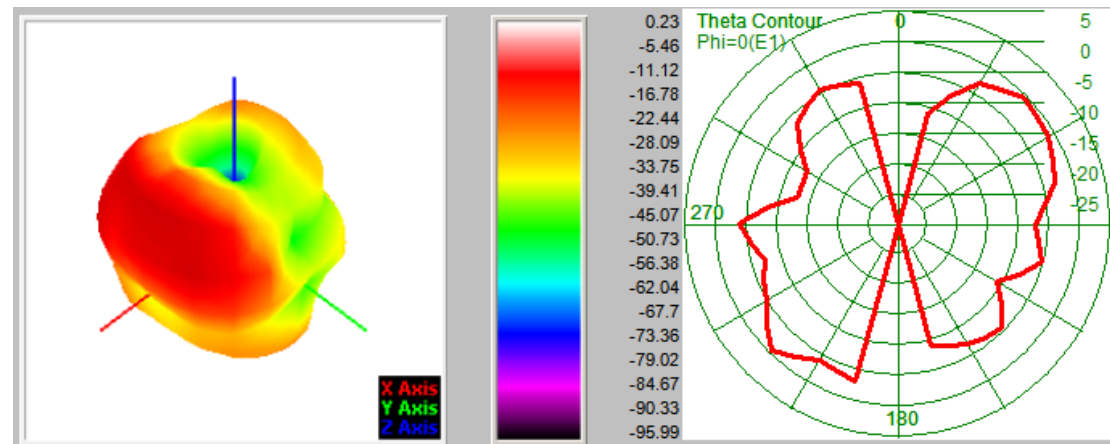
5. Antenna Gain(dBi)

Band	Max Gain	Band	Max Gain
GSM850(824-894MHz)	-1.68	NR7(2500-2690MHz)	0.52
PCS1900(1850-1990MHz)	0.23	NR71(617-698MHz)	-3.26
WCDMA2(1850-1990MHz)	0.23	NR41(2496-2690MHz)	0.52
WCDMA5(824-894MHz)	-1.68	NR78(3300-3800MHz)	1.11
LTE-B2(1850-1990MHz)	0.23		
LTE-B3(1710-1880MHz)	-0.15		
LTE-B4(1710-2155MHz)	-0.15		
LTE-B5(824-894MHz)	-1.68		
LTE-B13(746-787MHz)	-2.54		
LTE-B66(1710-2200MHz)	-0.15		

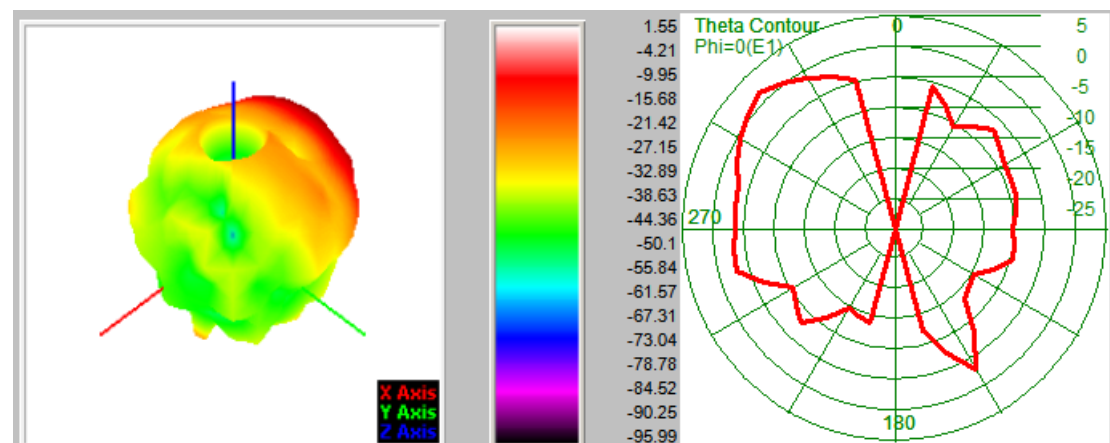
L1/BT/WIFI2.4G/WIFI5.2-5.8G	
Band	Max Gain
Bluetooth(2402-2480)	0.23
WIFI-2.4G(2412-2484)	0.23
WIFI-5.1(5150-5350)	1.55
WIFI-5.8(5725-5850)	1.26
GPS-L1(1575.42)	-0.19

6.3D Lobe Diagram

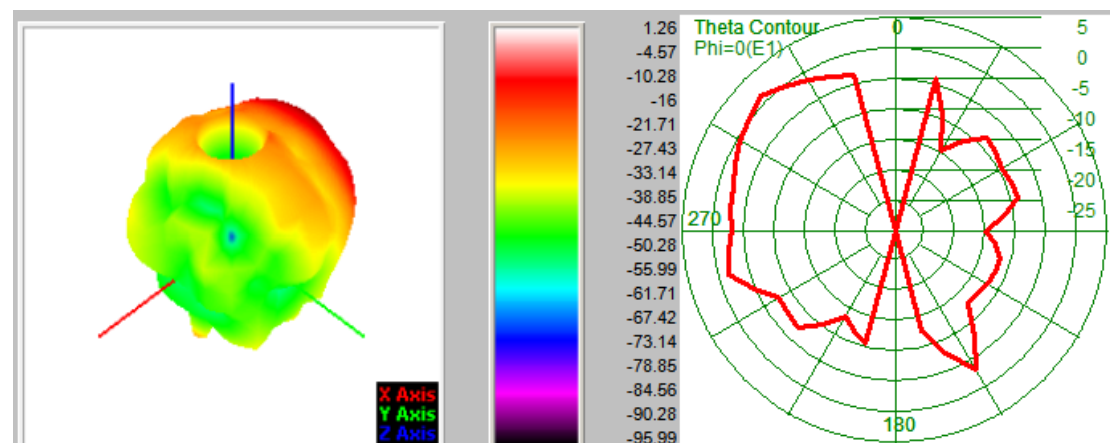
2.4GWIFI



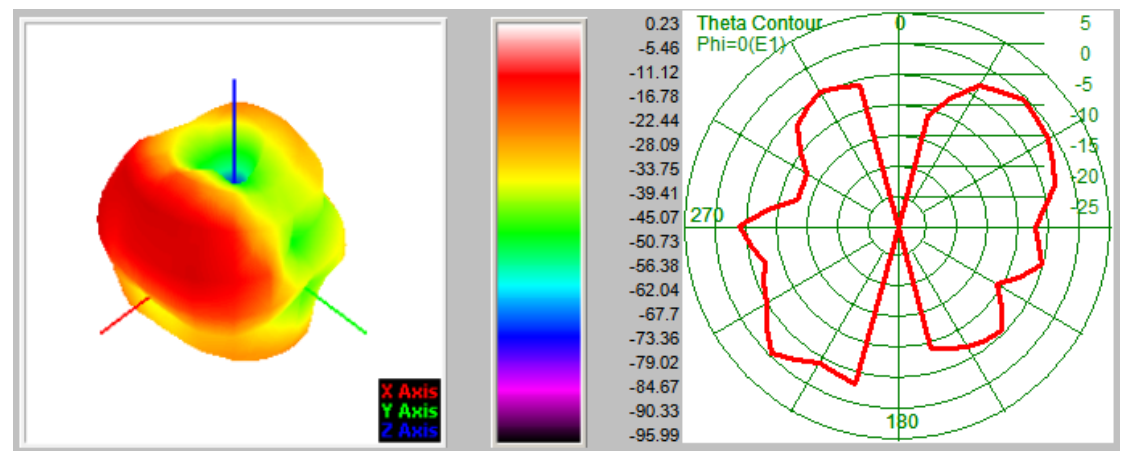
5.1GWIFI



5.8GWIFI

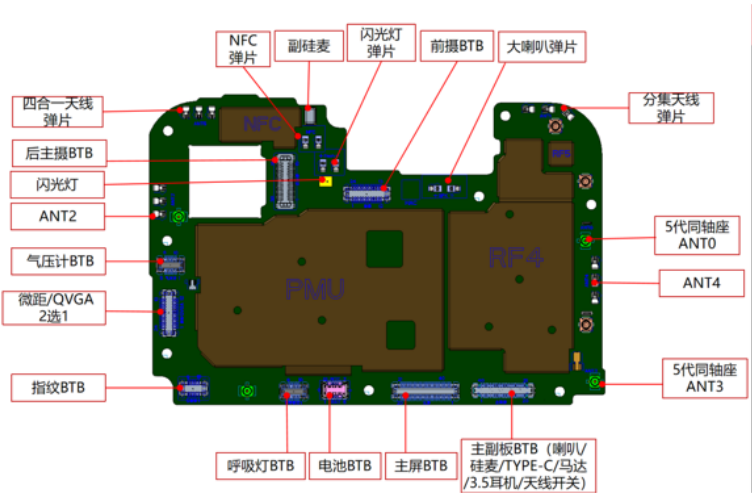


BT



7.Antenna frequency band distribution

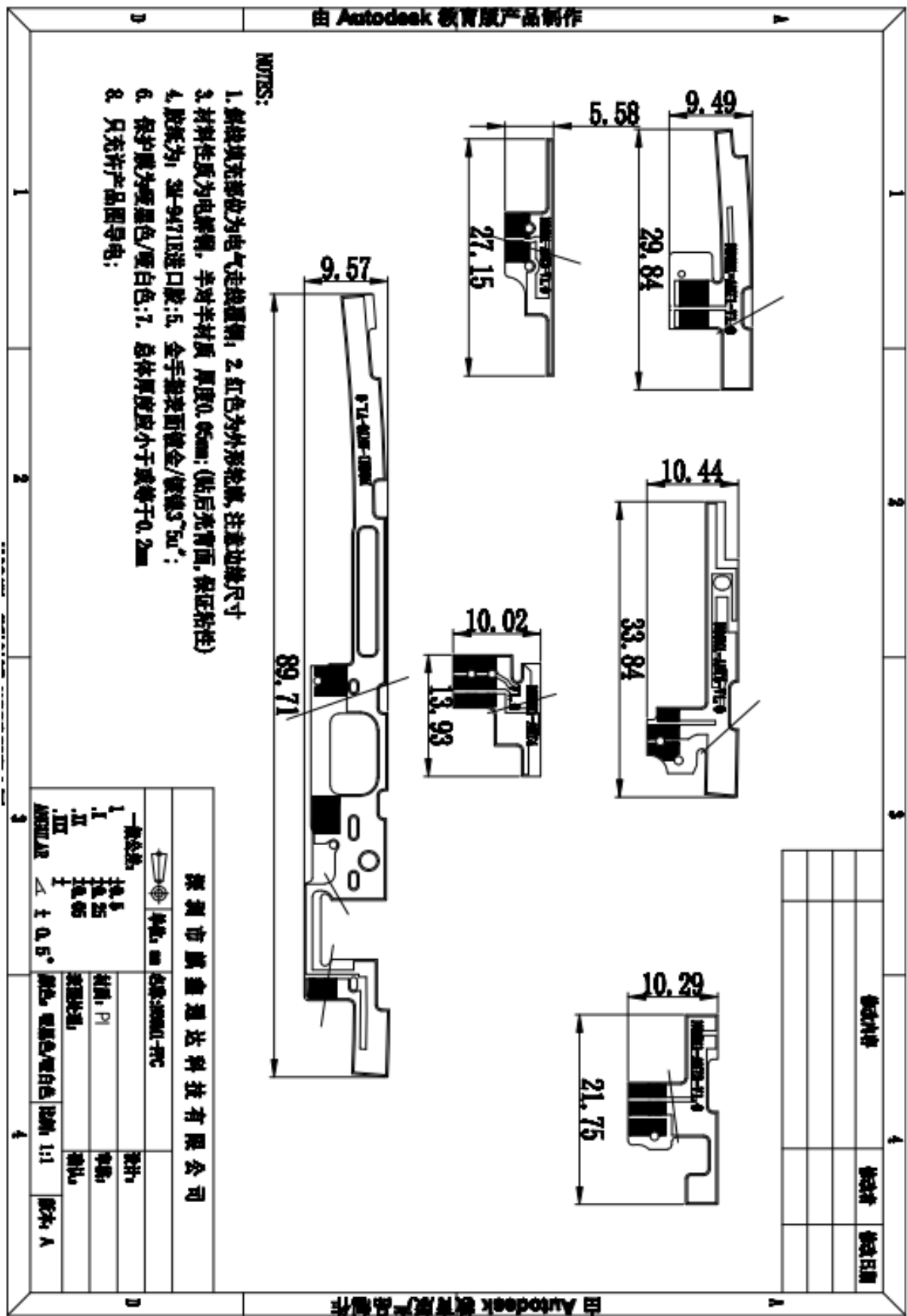
美版B	Band	ANT0	ANT1	ANT2	ANT3	ANT4	ANT5
LMHB 1T2R	GSM:850/900/1800/1900 WCDMA:B1/2/4/5/8 LTE-FDD:B1/2/3/4/5/7/13/20/28ab/66 LTE-TDD:B38/40/41F NR:N1/2/3/7/20/28/40/66/71	TX-PRX	DRX与ANT0DPDT	/	/	/	/
HB 1T4R	NR:n38/41F	/	DRX(SRS1)	PRX2(SRS2)	TX-PRX	DRX2(SRS3)	
UHB 1T4R	NR:n78	/	DRX(SRS1)	PRX2(SRS2)	TX-PRX	DRX2(SRS3)	
WCN	WIFI2.4G+5G/GPS L1+BT	/	/	/	/	/	TRX



8. Antenna distribution diagram



9. Antenna drawing



10.Introduction to Antenna Information

N66M1	
Antenna type and frequency band	ANT0 --PIFA ANT1 --PIFA ANT2 --PIFA ANT3 --PIFA ANT4 --PIFA ANT5 --PIFA
Antenna materia	FPC