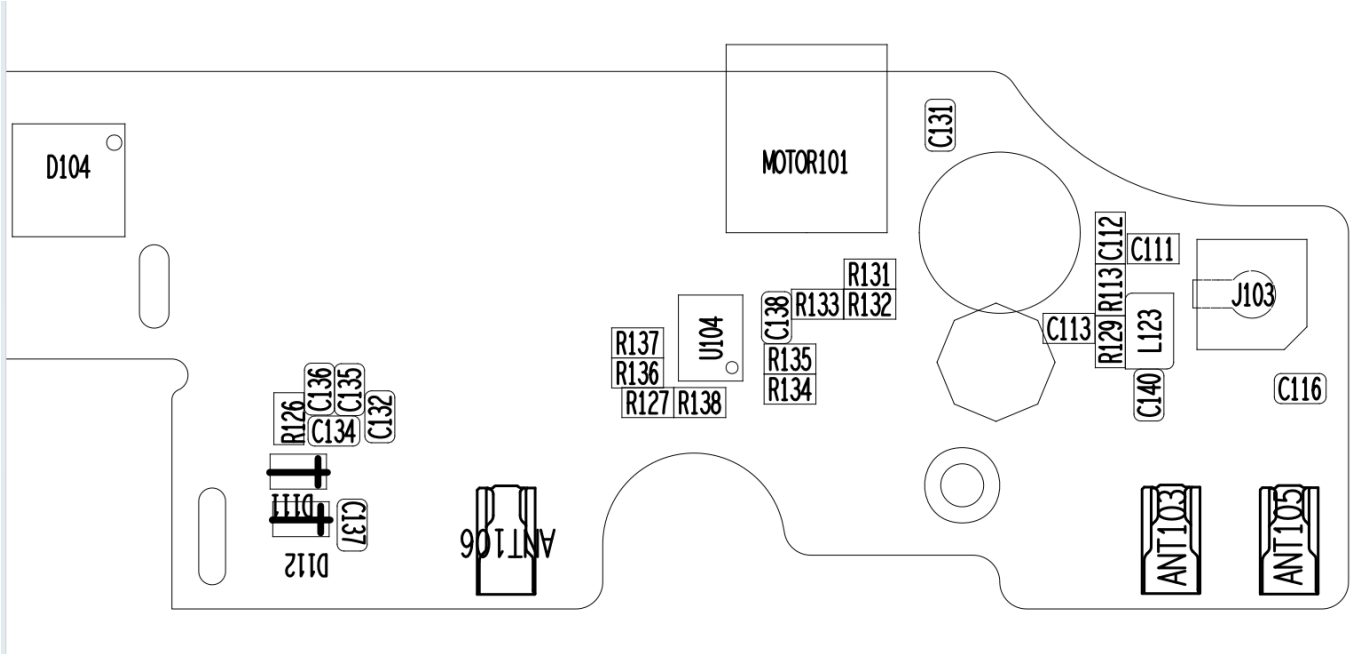


天线测试报告

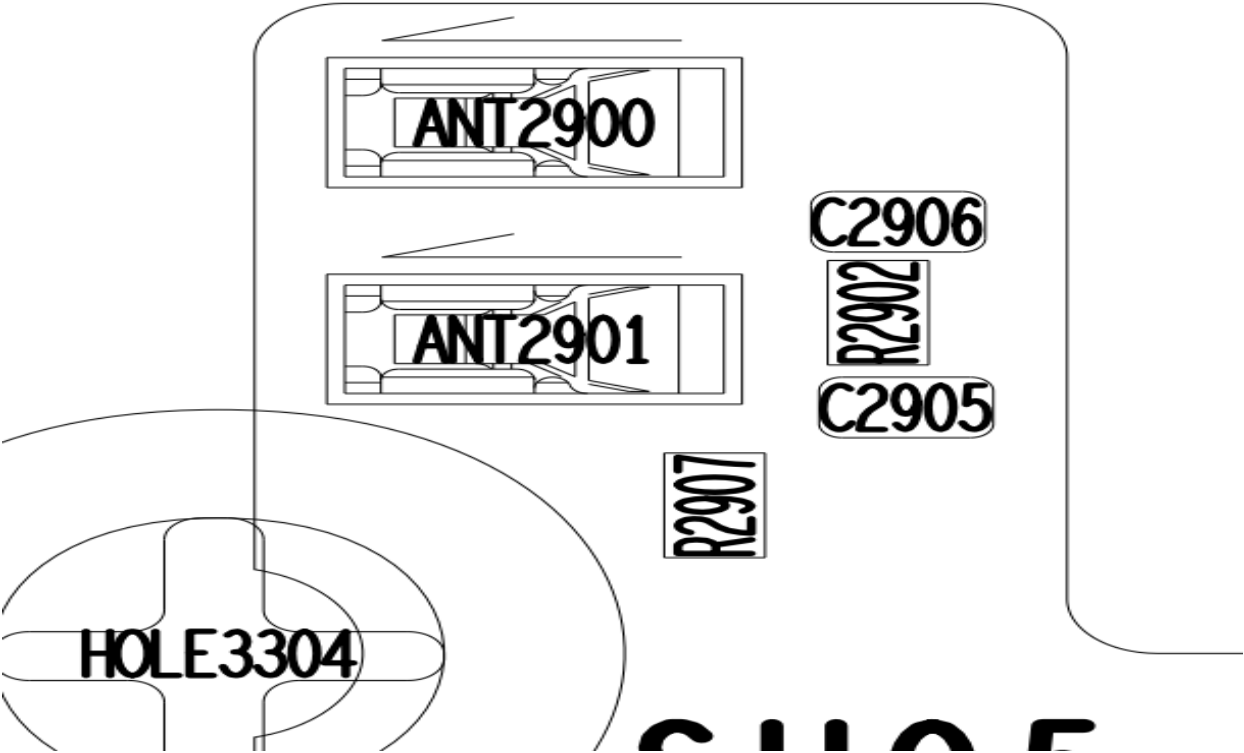
客户名称：小辣椒

项目名称：A61A

Matching circuit

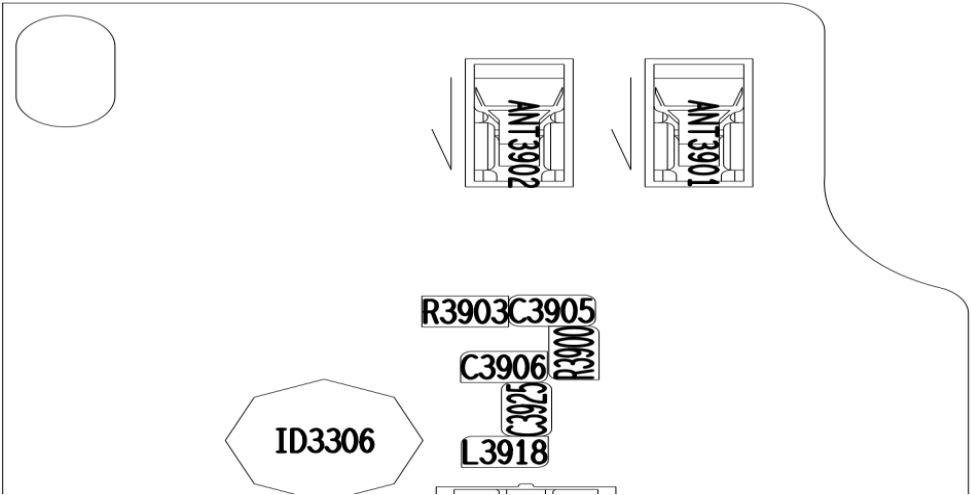


Main Antenna			
Element	Value		
C140	0Ω		
L123	NC		
R129	0Ω		
C113	12NH		
R113	0Ω		
C112	NC		
C111	0Ω		
C116	0Ω		
C	位号	匹配值	
RF1	R134	NC	DCS1800/1900+W2/4+FDD2/4/25/41/66TRX
RF2	R135	0 欧姆	GSM850/900+W5+FDD5/26TRX
RF3	R136	15NH	B12/17TRX
RF4	R137	33NH	FDD71



G/W/B Antenna	
Element	Value
C2906	NC
R2902	0Ω
C2905	NC

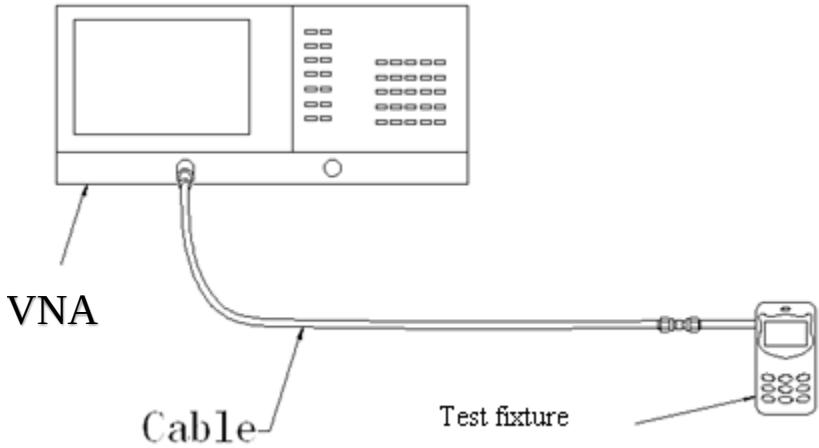
DIV



DIV Antenna	
Element	Value
R3903	0 欧姆
C3905	1PF
R3990	3.9NH
C3906	10NH
C3925	33PF
L3918	2.7NH

Antenna passive testing data

3.1 S11Description of the test method
Test the equipment: Vector network analyzer (Agilent E5071C)
Test methodology: Use a 50 ohm CABLE cable to export from the instrument test port, use the calibration piece to calibrate and connect the SMA connector of the test fixture, and record the return loss and standing wave ratio corresponding to the relevant frequency point.
Below is a schematic picture of the test:



MAIN VSWR

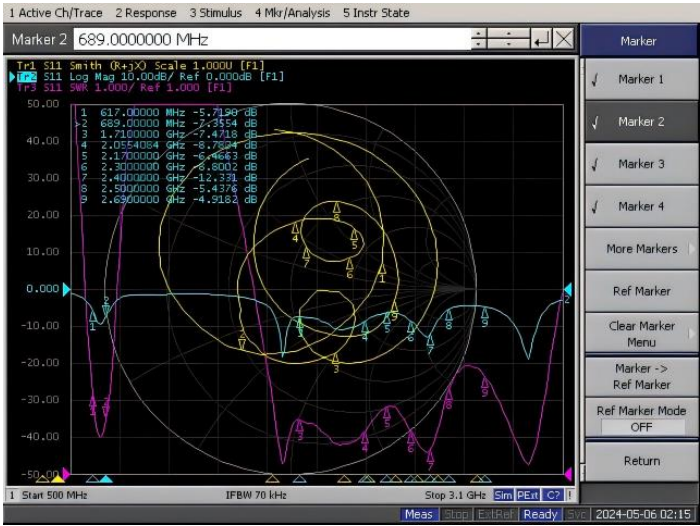
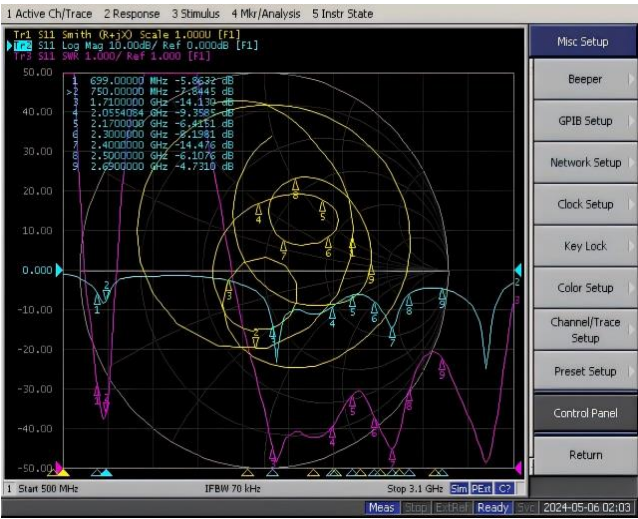
Antenna tuner works in RF1 channel

Antenna tuner works in RF2 channel



Antenna tuner works in RF3 channel

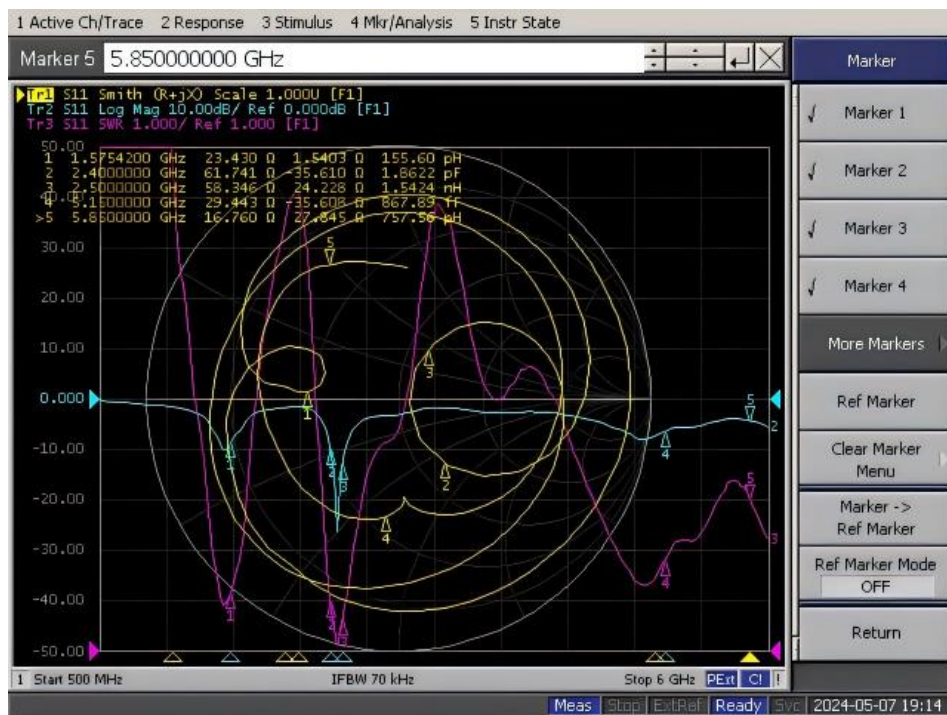
Antenna tuner works in RF4 channel



DIV VSWR



GWB VSWR

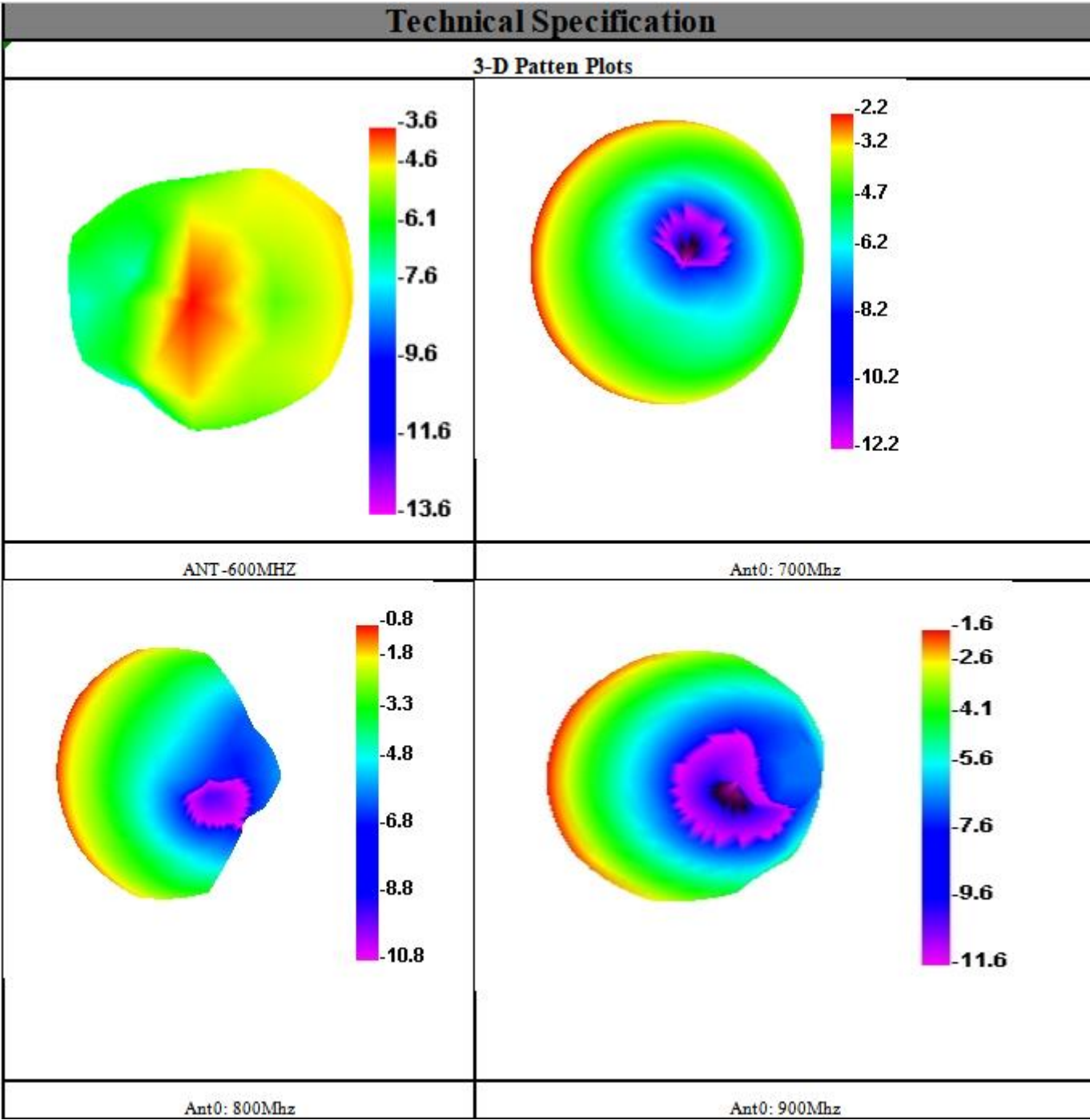


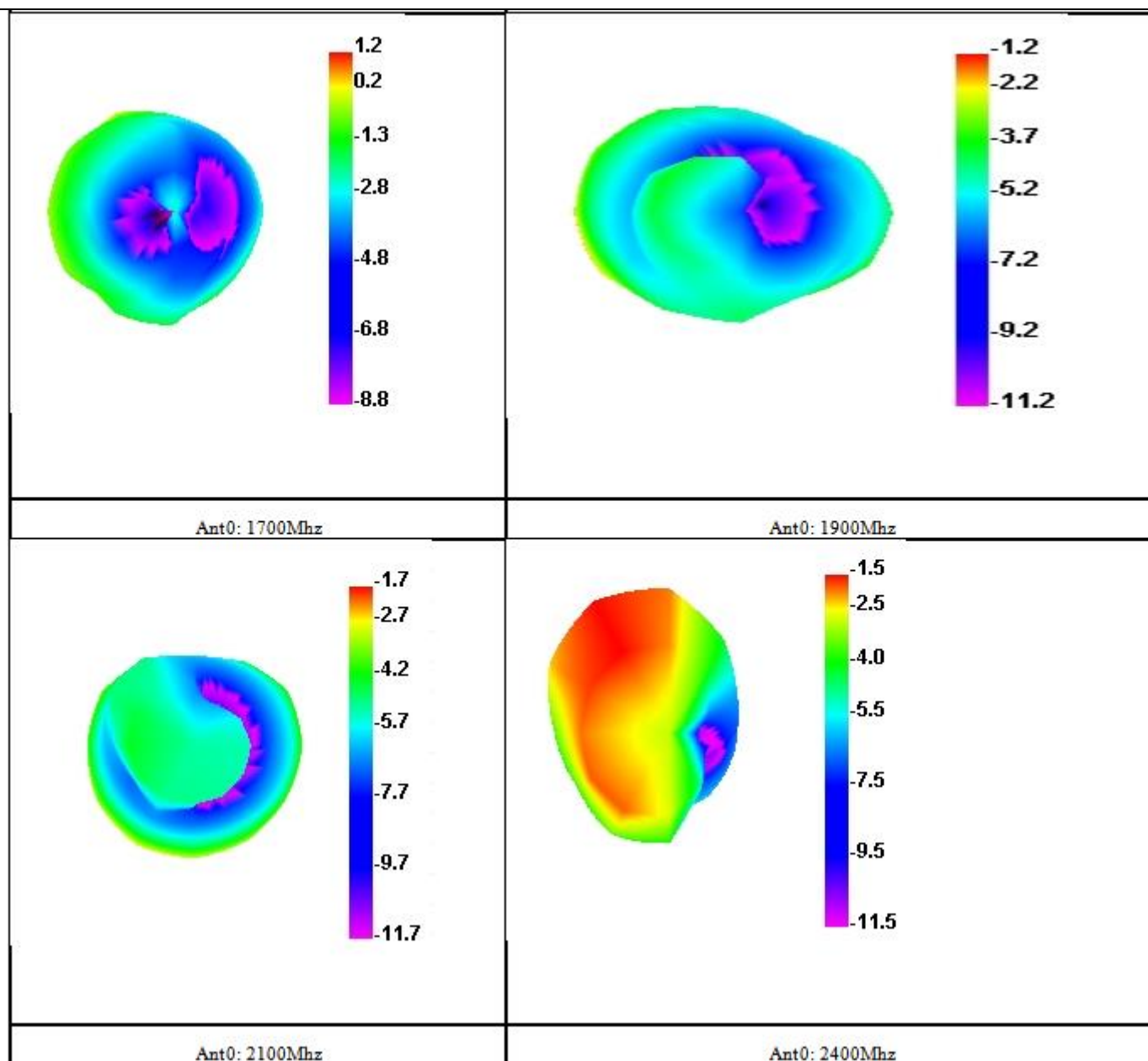
Antenna gain

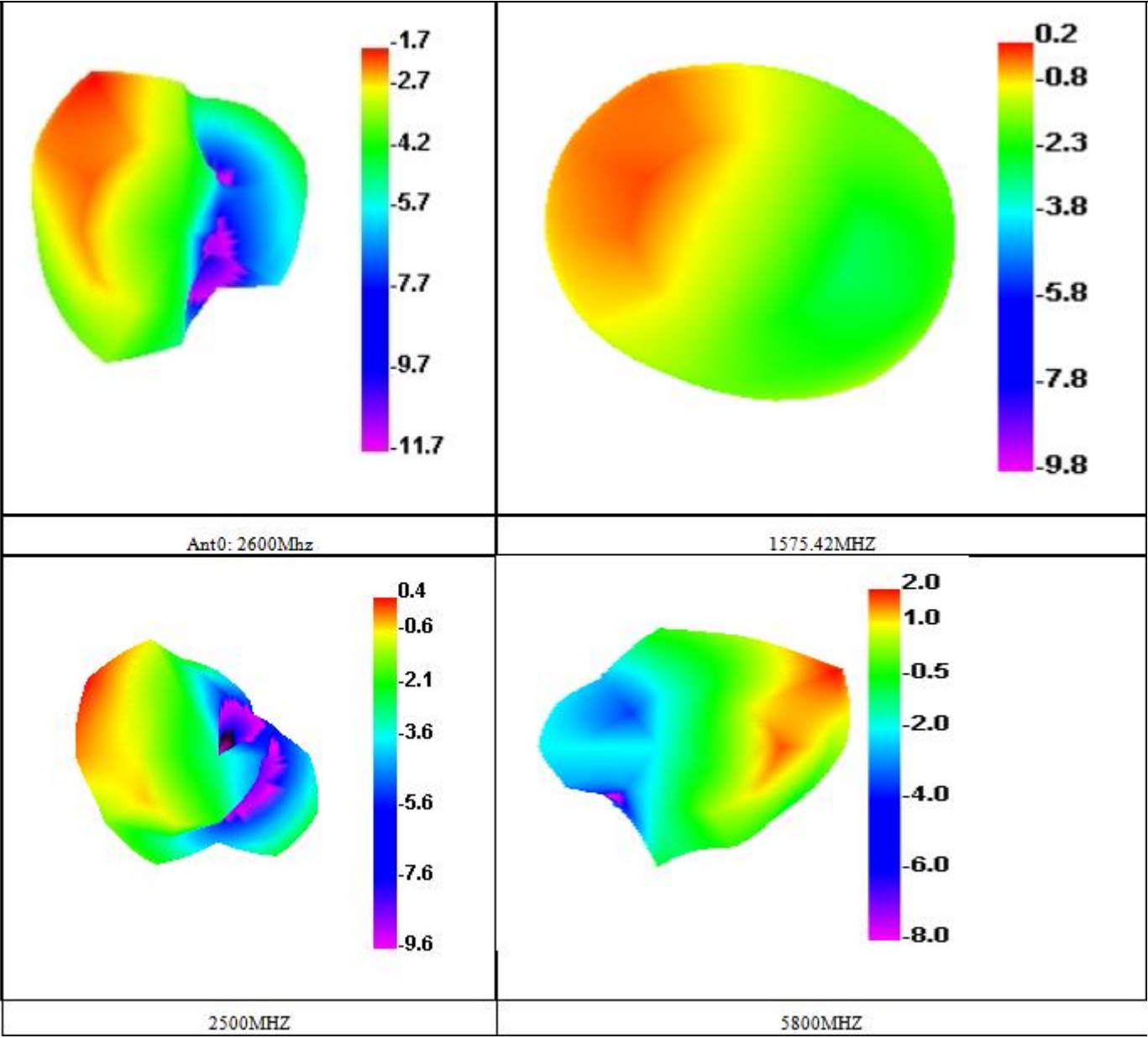
Band	Frequency	Gain	Band	Frequency	Gain
		(dBi)			(dBi)
GSM850	TX:824-849MHz	-1.12	LTE B5	TX:824-849MHz	-1.12
	RX:869-894MHz			RX:869-894MHz	
GSM900	TX:880-915MHz	-1.13	LTE B12	TX:700-716MHz	-1.28
	RX:925-960MHz			RX:729-746MHz	
DCS1800	TX:1710-1785MHz	0.15	LTE B25	TX:1850-1915MHz	0.44
	RX:1850-1880MHz			RX:1930-1995MHz	
PCS1900	TX:1850-1910MHz	0.31	LTE B26	TX:814-844MHz	1.13
	RX:1930-1990MHz			RX:864-889MHz	
WCDMA B2	TX:1845-1915MHz	0.31	LTE B41	TX:2496-2690MHz	-1.25
	RX:1925-1995MHz			RX:2496-2690MHz	
WCDMA B4	TX:1710-1785MHz	0.58	LTE B66	TX:1710-1785MHz	0.58
	RX:2110-2155MHz			RX:2110-2155MHz	
WCDMA B5	TX:824-849MHz	-1.12	LTE B71	TX:617-656MHz	-1.57
	RX:869-894MHz			RX:663-698MHz	
LTE B2	TX:1845-1915MHz	0.31			
	RX:1925-1995MHz				
LTE B4	TX:1710-1785MHz	0.58			
	RX:2110-2155MHz				

Band	Frequency	Gain
		(dBi)
wifi2.4G/BT	2.4GHz-2.4835GHz	1.11
WIFI5G	5.150GHz-5.350GHz	1.21
	5.725GHz-5.850GHz	
GPS	1.57542GHz	1.14

Radiation pattern







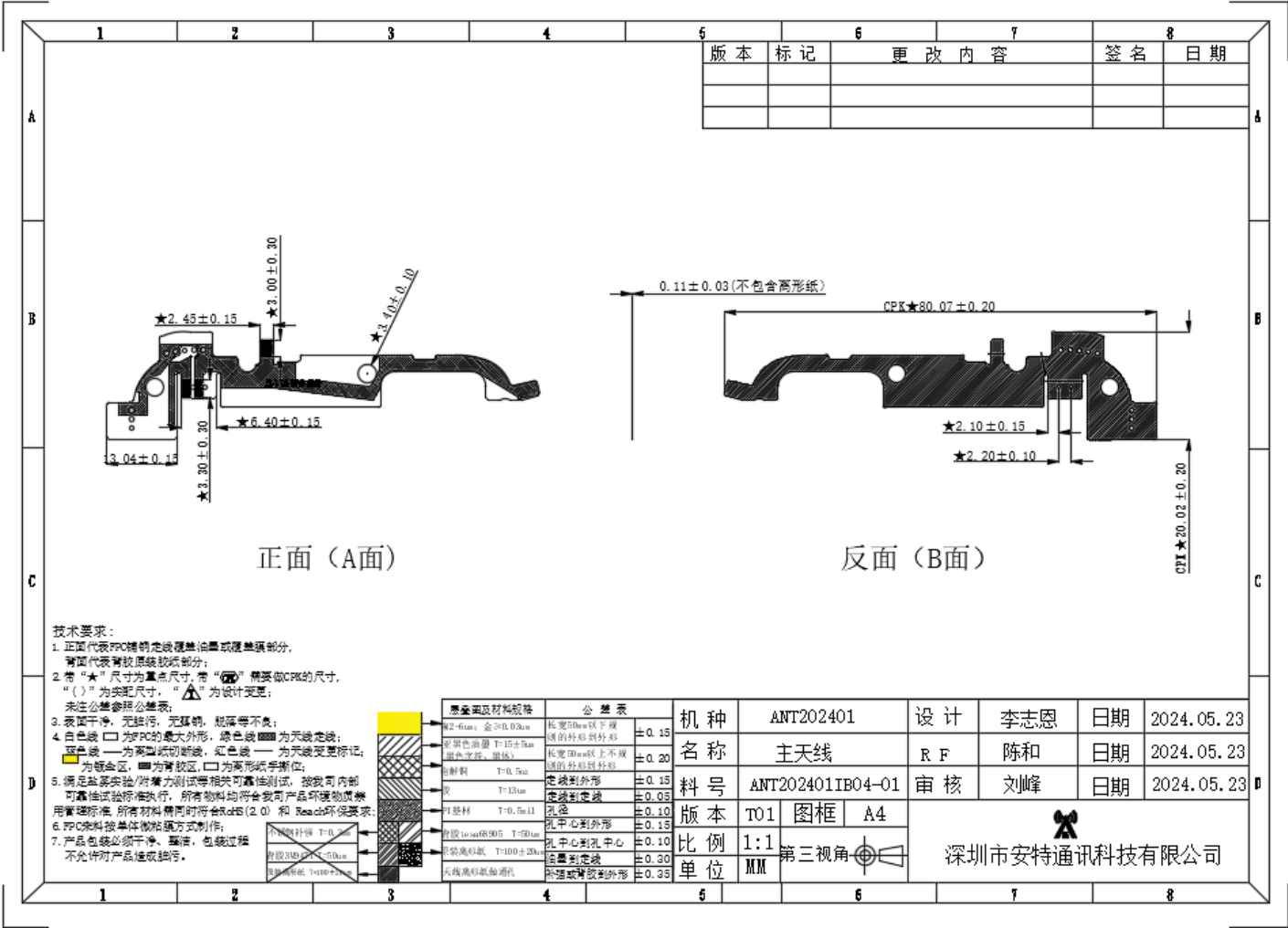
OTA Active test data

Measurement	Band	Total	Measurement	Band	Total
TRP	GSM850	26.62	TRP	FDD_B2(10MHz)	16.66
TRP	GSM850	26.68	TRP	FDD_B2(10MHz)	16.62
TRP	GSM850	26.66	TRP	FDD_B2(10MHz)	16.66
TIS(RSSI)	GSM850	-100.29	TIS(RSSI)	FDD_B2(10MHz)	-90.77
TRP	GSM900	26.85	TRP	FDD_B4(10MHz)	17.85
TRP	GSM900	24.96	TRP	FDD_B4(10MHz)	17.88
TRP	GSM900	23.07	TRP	FDD_B4(10MHz)	17.85
TIS(RSSI)	GSM900	-96.91	TIS(RSSI)	FDD_B4(10MHz)	-91.11
TRP	DCS1800	23.23	TRP	FDD_B5(10MHz)	16.66
TRP	DCS1800	23.11	TRP	FDD_B5(10MHz)	16.68
TRP	DCS1800	23.35	TRP	FDD_B5(10MHz)	16.86
TIS(RSSI)	DCS1800	-101.23	TIS(RSSI)	FDD_B5(10MHz)	-92.23
TRP	PCS1900	23.35	TRP	FDD_B25(10MHz)	16.11
TRP	PCS1900	24.11	TRP	FDD_B25(10MHz)	16.23
TRP	PCS1900	24.223	TRP	FDD_B25(10MHz)	16.01
TIS(RSSI)	PCS1900	-102.25	TIS(RSSI)	FDD_B26(10MHz)	-88.01
TRP	WCDMA_B2	16.7	TRP	FDD_B26(10MHz)	16.05
TRP	WCDMA_B2	17.2	TRP	FDD_B26(10MHz)	17.01
TRP	WCDMA_B2	17.2	TRP	FDD_B26(10MHz)	16.66
TIS(RSSI)	WCDMA_B2	-103.28	TIS(RSSI)	FDD_B26(10MHz)	-94.25
TRP	WCDMA_B4	17.93	TRP	FDD_B12(10MHz)	15.62
TRP	WCDMA_B4	17.52	TRP	FDD_B12(10MHz)	16.66
TRP	WCDMA_B4	17.69	TRP	FDD_B12(10MHz)	16.62
TIS(RSSI)	WCDMA_B4	-104.11	TIS(RSSI)	FDD_B12(10MHz)	-91.23
TRP	WCDMA_B5	15.62	TRP	FDD_B66(10MHz)	17.23
TRP	WCDMA_B5	15.25	TRP	FDD_B66(10MHz)	17.89
TRP	WCDMA_B5	16.11	TRP	FDD_B66(10MHz)	17.74
TIS(RSSI)	WCDMA_B5	-103.23	TIS(RSSI)	FDD_B66(10MHz)	-93.48
TRP	FDD_B41(20MHz)	14.69	TRP	FDD_B71(5MHz)	17.11
TRP	FDD_B41(20MHz)	15.11	TRP	FDD_B71(5MHz)	17.23
TRP	FDD_B41(10MHz)	14.52	TRP	FDD_B71(5MHz)	16.62
TIS(RSSI)	FDD_B41(20MHz)	-89.23	TIS(RSSI)	FDD_B71(5MHz)	-90.23

Measurement	Band	Channel	Total	Measurement	Band	Channel	Total
TRP	WIFI_B (11M)	1	10.23	TRP	WIFI_A (54M)	36	8.23
TRP	WIFI_B (11M)	6	10.11	TRP	WIFI_A (54M)	149	9.22
TRP	WIFI_B (11M)	11	10.23	TRP	WIFI_A (54M)	165	9.35
TIS(EIRP)	WIFI_B (11M)	1	-78.28	TIS(EIRP)	WIFI_A (54M)	165	-69.98
TIS(EIRP)	WIFI_B (11M)	6	-79.11	TIS(EIRP)	WIFI_A (54M)	36	-70.24
TIS(EIRP)	WIFI_B (11M)	11	-78.85	TIS(EIRP)	WIFI_A (54M)	149	-70.11

Engineering drawings

MAIN ANT:



DIV ANT:

