

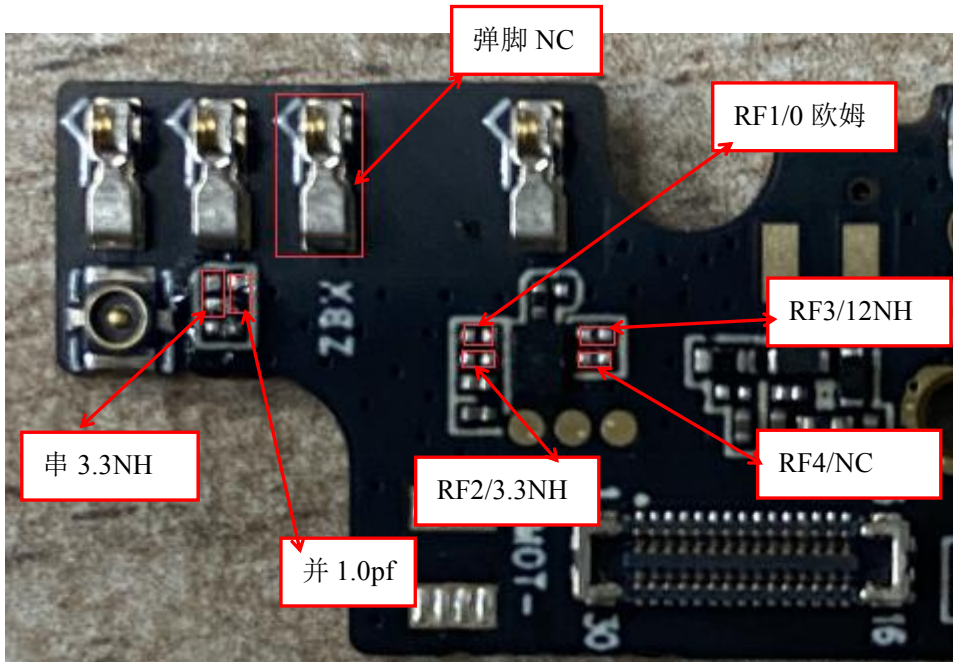
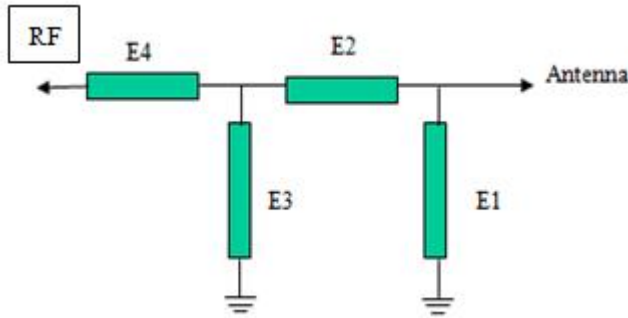
Antenna testing report



Bands	G4P/W900/2100/1900/900/850/ LTE/2/3/4/5/7/12/17/28	Mode	FPC
Antenna type	PIFA	date	2022/11/1

Main antenna matching circuit

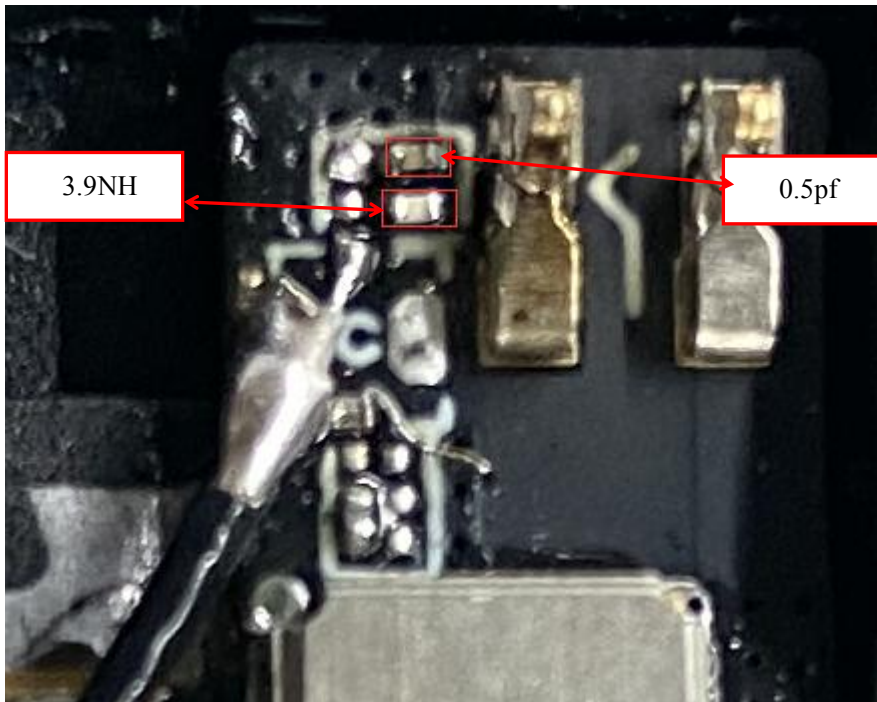
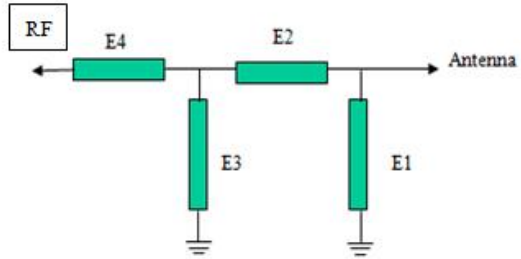
Element	E1	E2	E3	E4
Value	并 1.0pf	3.3NH	NC	



A85B1	
RF1/0 欧姆	GSM900/WCDMA900/LTE-Band7
RF2/3. 3NH	GSM850/WCDMA850/LTE-Band5
RF3/12NH	DCS1800/PCS1900/WCDMA2100/WCDMA1900/LTE-Band2 Band3 Band4 Band12 Band17 Band28

Diversity antenna matching circuit

Element	E1	E2	E3	E4
Value	并 0.5pf	串 3.9NH		



The main antenna transmits data

Band	Channel	功率(dBm)	灵敏度(dBm)	Band	Channel	功率(dBm)	灵敏度(dBm)
GSM900	L	32.1		DCS1800	L	28.9	
	M	32.2			M	29.2	
	H	32.2	-109.5		H	29.6	-108.5
GSM850	L	32.0		PCS1900	L	29.2	
	M	32.1			M	29.5	
	H	32.0	-110.0		H	29.7	-108.5
W2100	L	21.5		W900	L	21.6	
	M	21.6			M	21.8	
	H	21.9	-110.5		H	21.7	-108.0
W1900	L	23.0		W850	L	22.7	
	M	23.0			M	22.7	
	H	23.0			H	22.7	
LTE-B2	L	23.0		LTE-B12	L	22.3	
	M	22.9			M	22.4	
	H	22.9	-98.8		H	22.2	-97.0
LTE-B3	L	22.8		LTE-B17	L	22.2	
	M	22.8			M	22.2	
	H	22.9	-97.5		H	22.3	-98.0
LTE-B4	L	22.8		LTE-B28	L	22.4	
	M	22.7			M	22.4	
	H	22.7	-97.2		H	22.4	-100.5
LTE-B5	L	22.0		LTE-B7	L	22.7	
	M	22.0			M	22.8	
	H	22.1	-100.5		H	22.8	-98.4

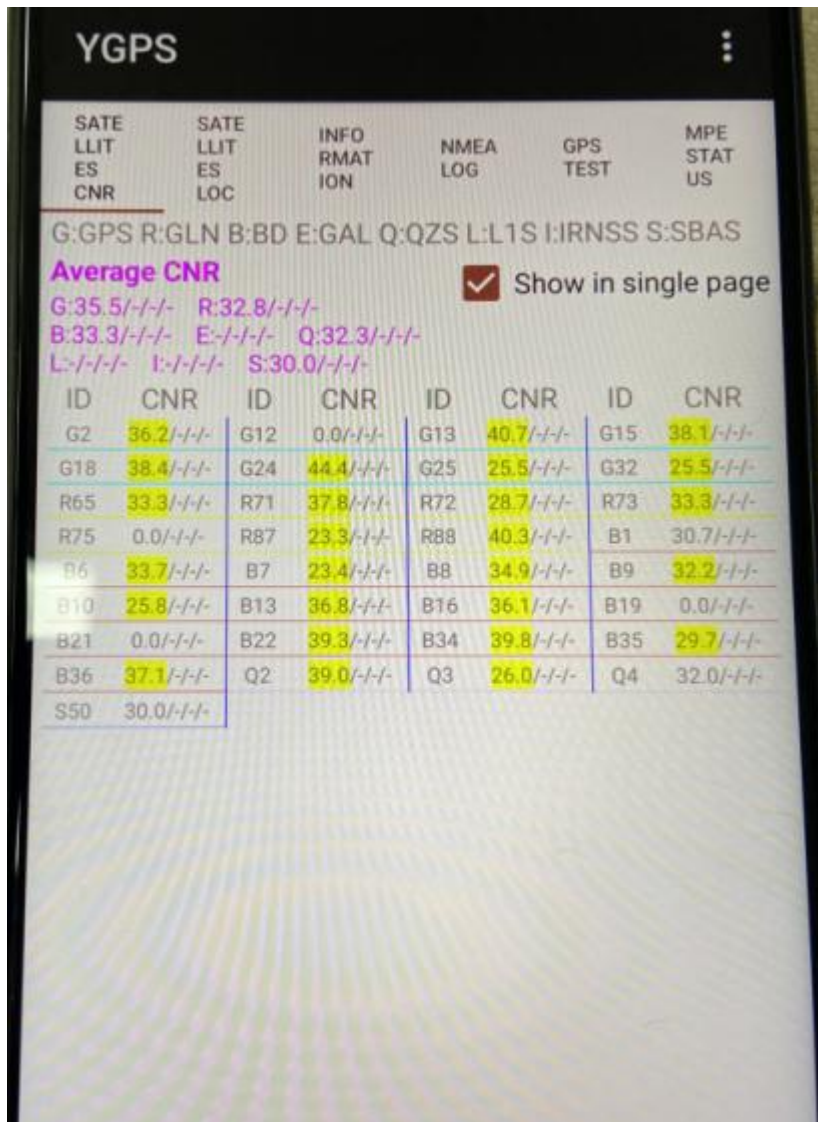
Main antenna OTA

Band	Channel	TRP (dBm)	TIS (dBm)	Band	Channel	TRP (dBm)	TIS (dBm)
GSM900	L	25.0		DCS1800	L	23.8	
	M	25.2			M	24.3	
	H	25.0	-100.0		H	24.3	-102.1
GSM850	L	24.0		PCS1900	L	24.1	
	M	24.0			M	24.2	
	H	24.0	-102.0		H	24.0	-102.0
W2100	L	16.2		W900	L	16.3	
	M	15.8			M	15.5	
	H	15.7	-103.5		H	15.0	-102.0
W1900	L	16.0		W850	L	16.1	
	M	16.1			M	16.0	
	H	16.2	-104.1		H	16.1	-103.8
LTE-B2	L	16.8		LTE-B12	L	15.0	
	M	16.6			M	15.2	
	H	16.0	-92.9		H	15.3	-91.0
LTE-B3	L	14.5		LTE-B17	L	15.1	
	M	15.6			M	15.1	
	H	16.2	-90.2		H	15.1	-90.1
LTE-B4	L	14.3		LTE-B28	L	15.0	
	M	15.0			M	15.1	
	H	15.6	-92.8		H	15.3	-91.5
LTE-B5	L	15.5		LTE-B7	L	15.5	
	M	15.6			M	15.5	
	H	15.8	-91.2		H	15.5	-92.5
GSM900		灭屏	亮屏	DCS1800		灭屏	亮屏
	L	-106.5	-103.0		L	-109.0	-108.0
	M	-105.0	-102.0		M	-110.0	-109.5
	H	-104.0	-101.0		H	-108.5	-108.0
GSM850	L	-107.0	-101.0	PCS1900	L	-107.5	-107.0
	M	-106.5	-101.5		M	-107.5	-105.5
	H	-105.5	-101.0		H	-107.5	-107.0

WIFI OTA

Band	Channel	TRP(dBm)	TIS(dBm)	Band	Channel	TRP(dBm)	TIS(dBm)
2.4G(B 模) 11M	1			5G(A 模)54M	36		
	7				64		
	13				165		

GPS

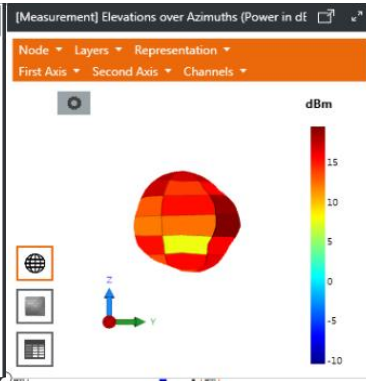


Antenna apple diagram

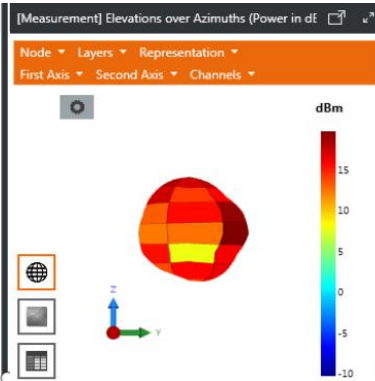
LTE-Band2



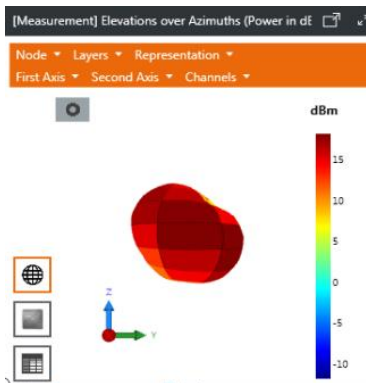
LTE-Band3



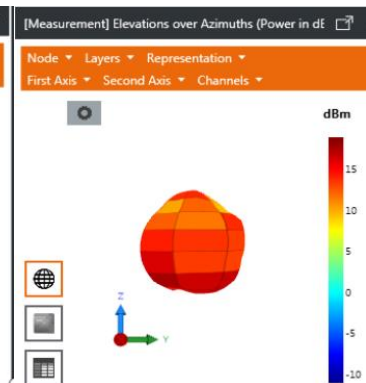
LTE-Band4



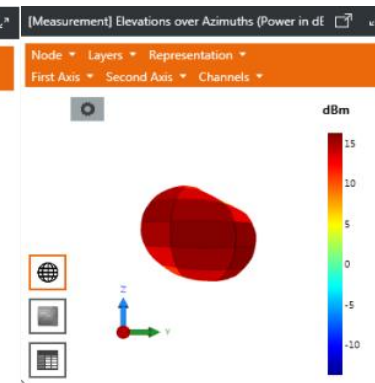
LTE-Band5



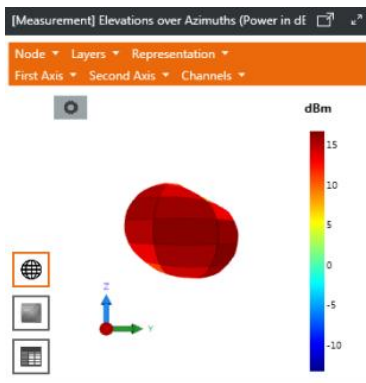
LTE-Band7



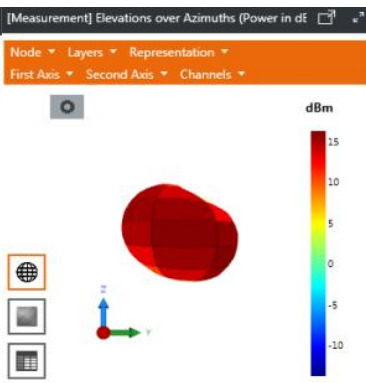
LTE-Band12



LTE-Band17



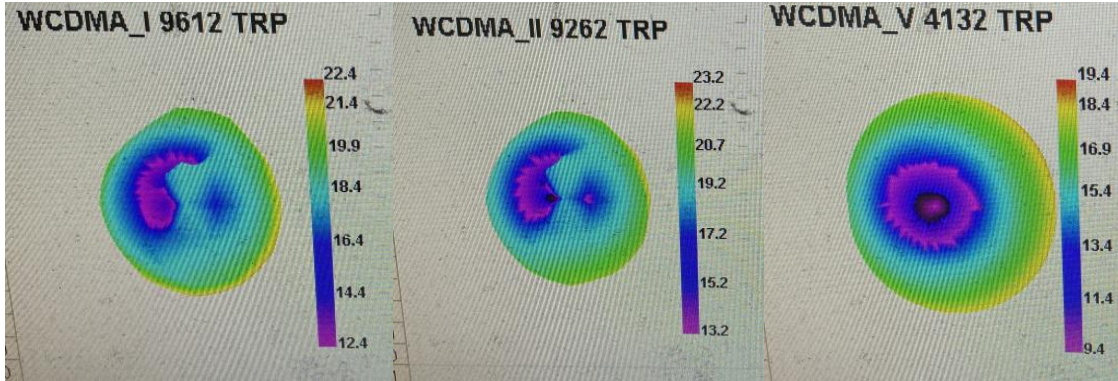
LTE-Band28



WCDMA-2100

WCDMA-1900

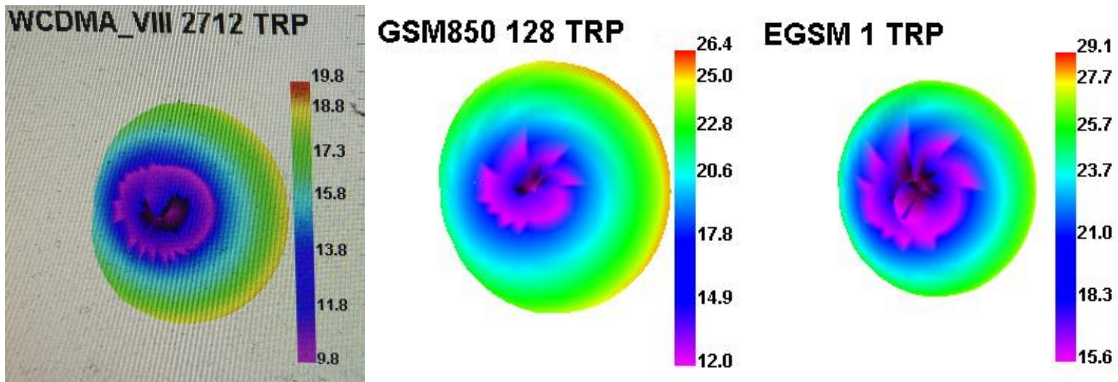
WCDMA-850



WCDMA-900

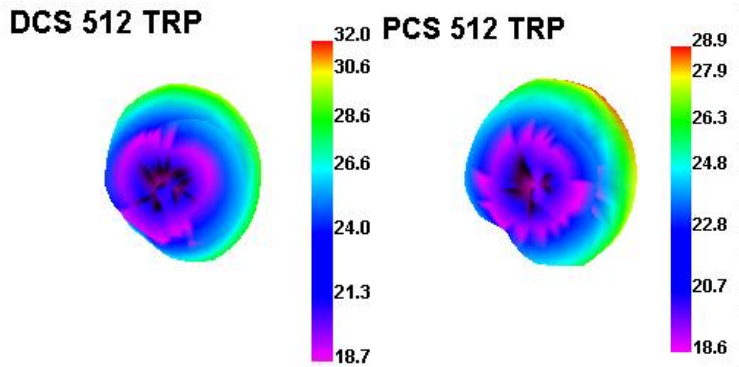
GSM850

GSM900



DCS1800

PCS1900



Antenna Gain

Frequency (MHz)	Gain (dBi)
LTE-B28A/28B/12/17 (698MHz~805MHz)	-1.6
850/W5/LTE-B5 (824MHz~894MHz)	-1.6
900/W8/LTE-B8 (880MHz~960MHz)	-1.0
1800/LTE-B3/B2/B4 (1710MHz~2179MHz)	-1.4
1900/W2/LTE-B2 (1850MHz~1990MHz)	-1.4
LTE-B7 (2500MHz~2690MHz)	-0.9
BT/WIFI2.4 (2400MHz~2500MHz)	-1.0
WIFI-5G (5150MHz~5850MHz)	0.9

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