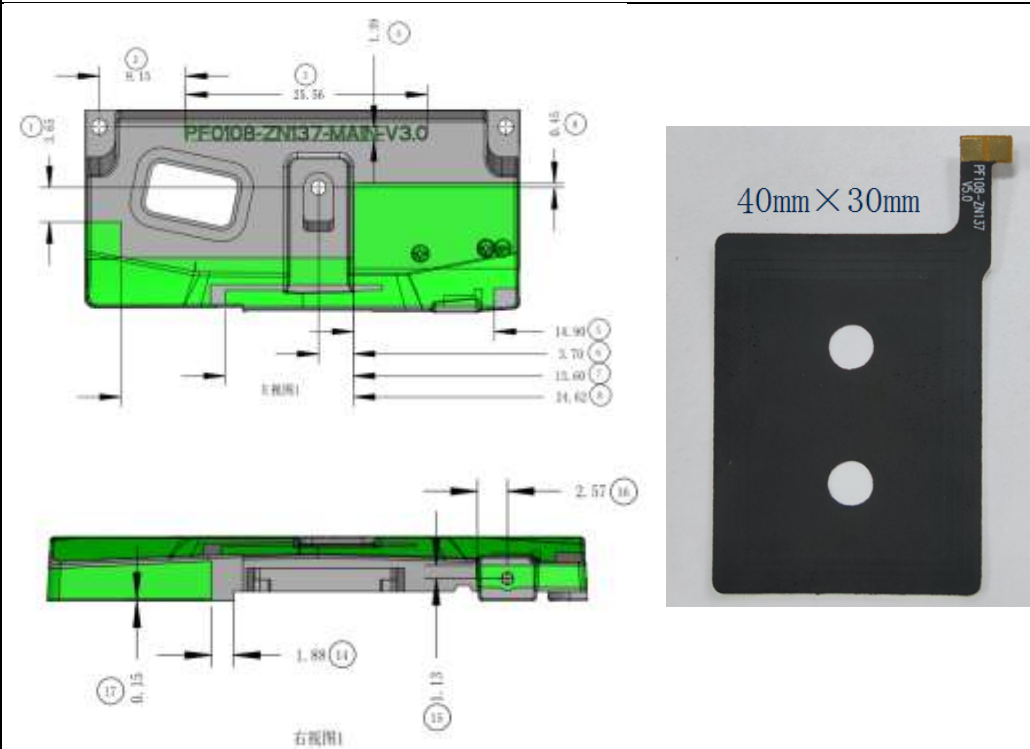


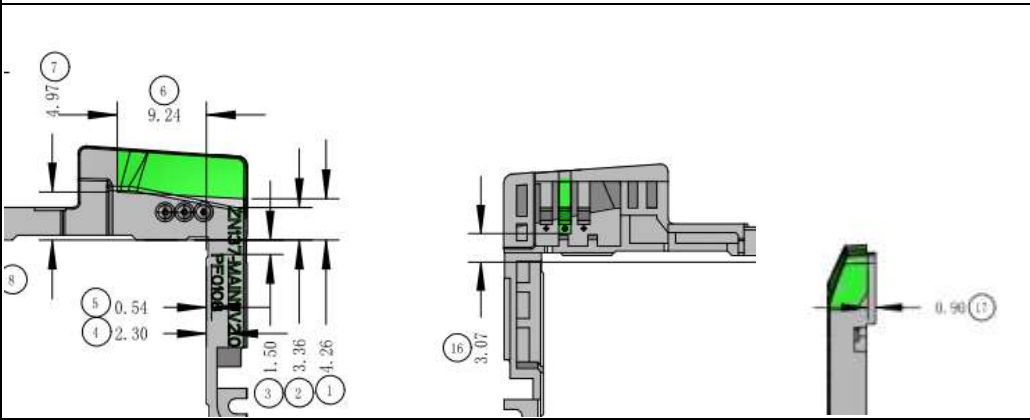
Technical Specification

AntennaMode	ZN137	Manufactured	Shenzhen PIPA antenna design Co.,LTD.
Address	Unit F/4F, buildingA, Junxiangda, Plada, Zhongshanyuan Road, Nanshan District, Shenzhen		

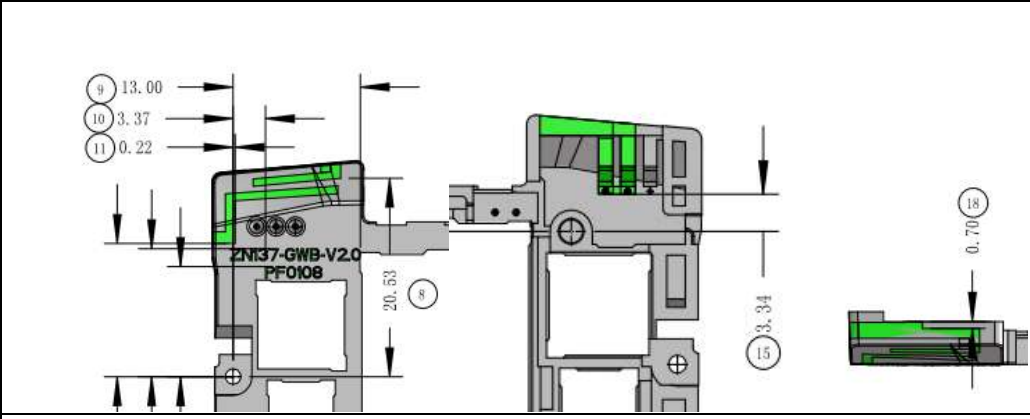
Size
&
Picture



Ant0-GSM/WDMA/LTE main: PIFA



Ant1- GSM/WDMA/LTE div: Monopole



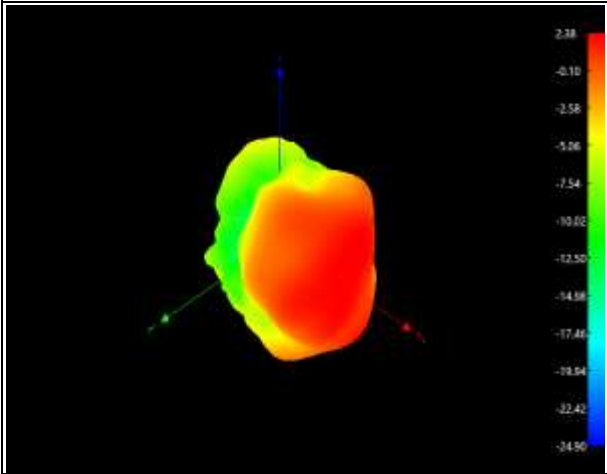
Ant2-GWB: PIFA

Technical Specification							
Band		Mode	Name	Frequency	Antenna Type	Antenna Max Gain	
GSM Band	☒ Band-5 GSM 850			824-894	PIFA	0.83	dBi
	☒ Band-8 GSM 900			880-960		0.72	
	☒ Band-3 DCS 1800			1710-1880		0.66	
	☒ Band-2 PCS 1900			1850-1990		0.72	
CDMA Band	☒ BC-0 800		800 MHz	815-894	PIFA	0.83	dBi
	☒ BC-1 1900		1900 MHz	1850-1990		0.69	
	☒ BC-10 800		Secondary 800 MHz	806-940		0.41	
UMTS Band	☒ Band-1 2100		IMT	1920-2170	PIFA	0.73	dBi
	☒ Band-2 1900		PCS A-F	1850-1990		0.53	
	☒ Band-4 1700/2100		AWS A-F	1710-2155		0.41	
	☒ Band-5 850		CLR	824-894		0.77	
	☒ Band-6 800		UMTS 800	830-885		0.2	
	☒ Band-8 900		E-GSM	880-960		0.1	
	☒ Band-19 800		LB 800	830-890		0.08	
LTE Band	☒ Band-1 2100	FDD	IMT	1920-2170	PIFA	0.11	dBi
	☒ Band-2 1900	FDD	PCS	1850-1990		0.17	
	☒ Band-3 1800	FDD	DCS	1710-1880		0.9	
	☒ Band-4 1700/2100	FDD	AWS	1710-2155		1.02	
	☒ Band-5 850	FDD	CLR	824-894		0.86	
	☒ Band-7 2600	FDD	IMT-E	2500-2690		0.67	
	☒ Band-8 900	FDD	EGSM	880-960		0.79	
	☒ Band-12 700	FDD	LSMH	699-746		0.73	
	☒ Band-13 700	FDD	USMH	746-787			
	☒ Band-17 700	FDD	LSMH	704-746		0.34	
	☒ Band-18 800	FDD	Lower 800	815-875		0.33	
	☒ Band-19 800	FDD	Upper 800	830-890		0.31	
	☒ Band-20 800	FDD	EUDD	791-862		0.29	
	☒ Band-25 1900	FDD	EPCS	1850-1995		0.23	
	☒ Band-26 850	FDD	ECLR	814-894		0.3	
	☒ Band-28 700	FDD	APT	703-803		0.28	
	☒ Band-34 2000	TDD	IMT	2010-2025		0.19	
	☒ Band-38 2600	TDD	IMT-E	2570-2620		0.28	
	☒ Band-39 1900	TDD	DCS-IMT Gap	1880-1920		0.9	
	☒ Band-40 2300	TDD	S-Band	2300-2400		0.9	
	☒ Band-41 2500	TDD	BRS	2496-2690		0.95	
	☒ Band-66 1700	FDD	ExtendedAWS	1710-2200		0.84	
	☐ Band-71 600	FDD	USDD	617-698			

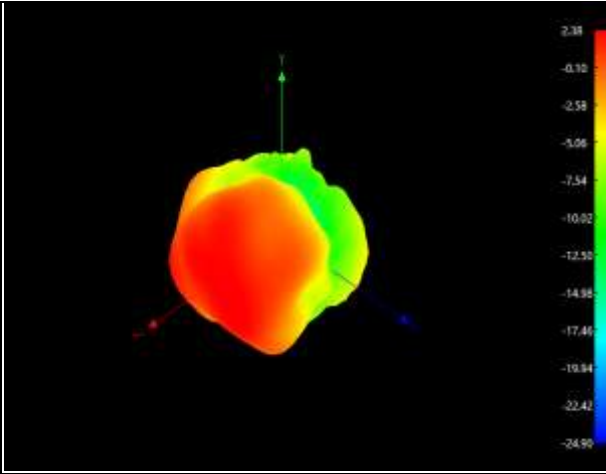
Technical Specification							
Band		Mode	Name	Frequency	Antenna Type	Antenna Max Gain	
NR	☒ n1 2100	FDD	IMT	1920-2170	PIFA		dBi
	☐ n2 1900	FDD	PCS	1850-1990			
	☒ n3 1800	FDD	DCS	1710-1880			
	☐ n5 850	FDD	CLR	824-894			
	☒ n7 2600	FDD	IMT-E	2500-2690			
	☐ n8 900	FDD	ExtendedGSM	880-960			
	☐ n12 700	FDD	Lower SMH	699-746			
	☐ n13 700	FDD	Upper SMH	746-787			
	☐ n20 800	FDD	Digital Dividend	791-862			
	☒ n28 700	FDD	APT	703-803			
	☒ n38 2600	TDD	IMT-E	2570-2620			
	☒ n41 2500	TDD	BRS	2496-2690			
	☐ n66 2100	FDD	Extended AWS	1710-2200			
	☐ n71 600	FDD	Digital Dividend	617-698			
	☒ n77 3700	TDD	C-Band	3300-4200			
	☒ n78 3500	TDD	C-Band	3300-3800			
	☒ n79 4700	TDD	C-Band	4400-5000			
WiFi	☒ 802.11b/g/n	2.4GHz	Wi-Fi 4	2401-2495	PIFA	0.63	dBi
	☒ 802.11a/n/ac/ax	5GHz	Wi-Fi 5/6	4910-5895		0.49	
	☐ 802.11ax	6GHz	Wi-Fi 6E	5925-7125			
WiFi MIMO	☐ 802.11b/g/n	2.4GHz	Wi-Fi 4	2401-2495	PIFA		dBi
	☐ 802.11a/n/ac/ax	5GHz	Wi-Fi 5/6	4910-5895			
	☐ 802.11ax	6GHz	Wi-Fi 6E	5925-7125			
BT	☒ Bluetooth			2400-2500	PIFA	0.71	dBi
GPS	☒ Gps L1 Band			1575.42	PIFA	0.38	dBi
	☐ Gps L2 Band			1227.6			
	☐ Gps L5 Band			1176.45			

Technical Specification

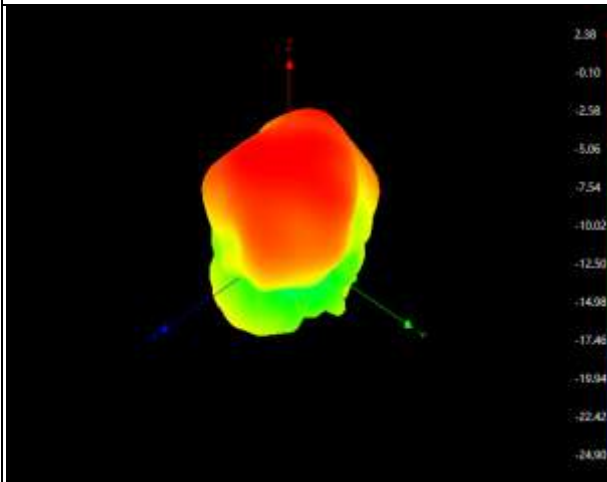
Ant0 3-D Patten Plots



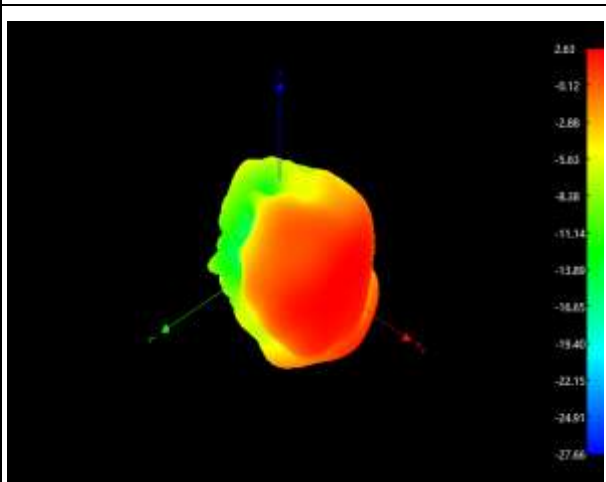
Ant0: 700Mhz



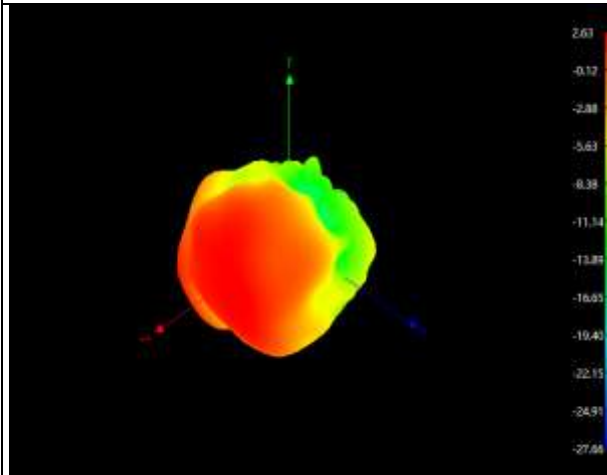
Ant0: 800Mhz



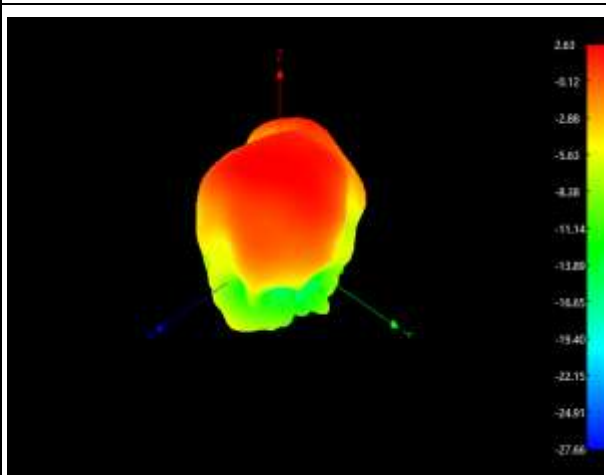
Ant0: 900Mhz



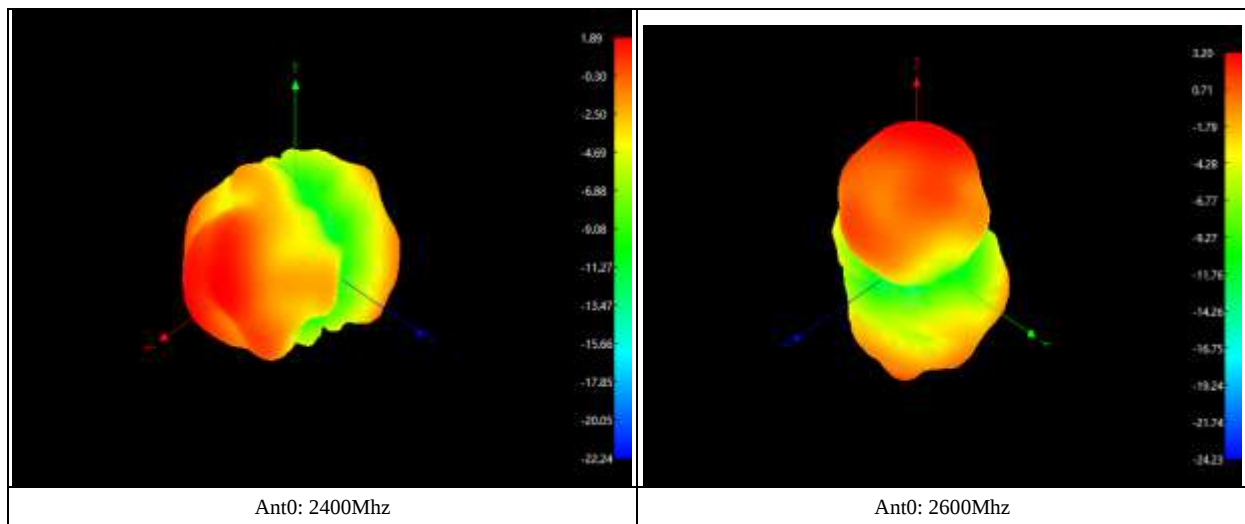
Ant0: 1700Mhz

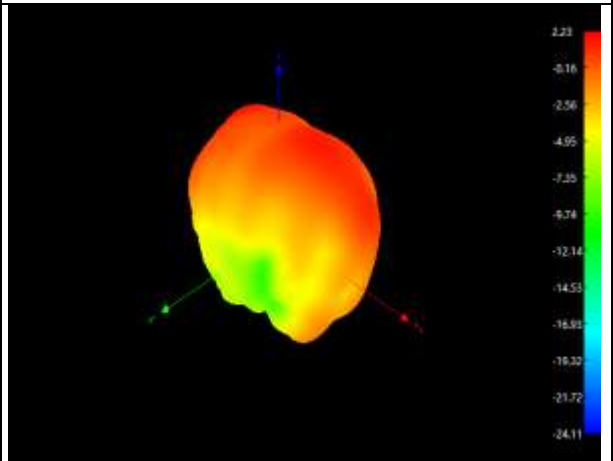


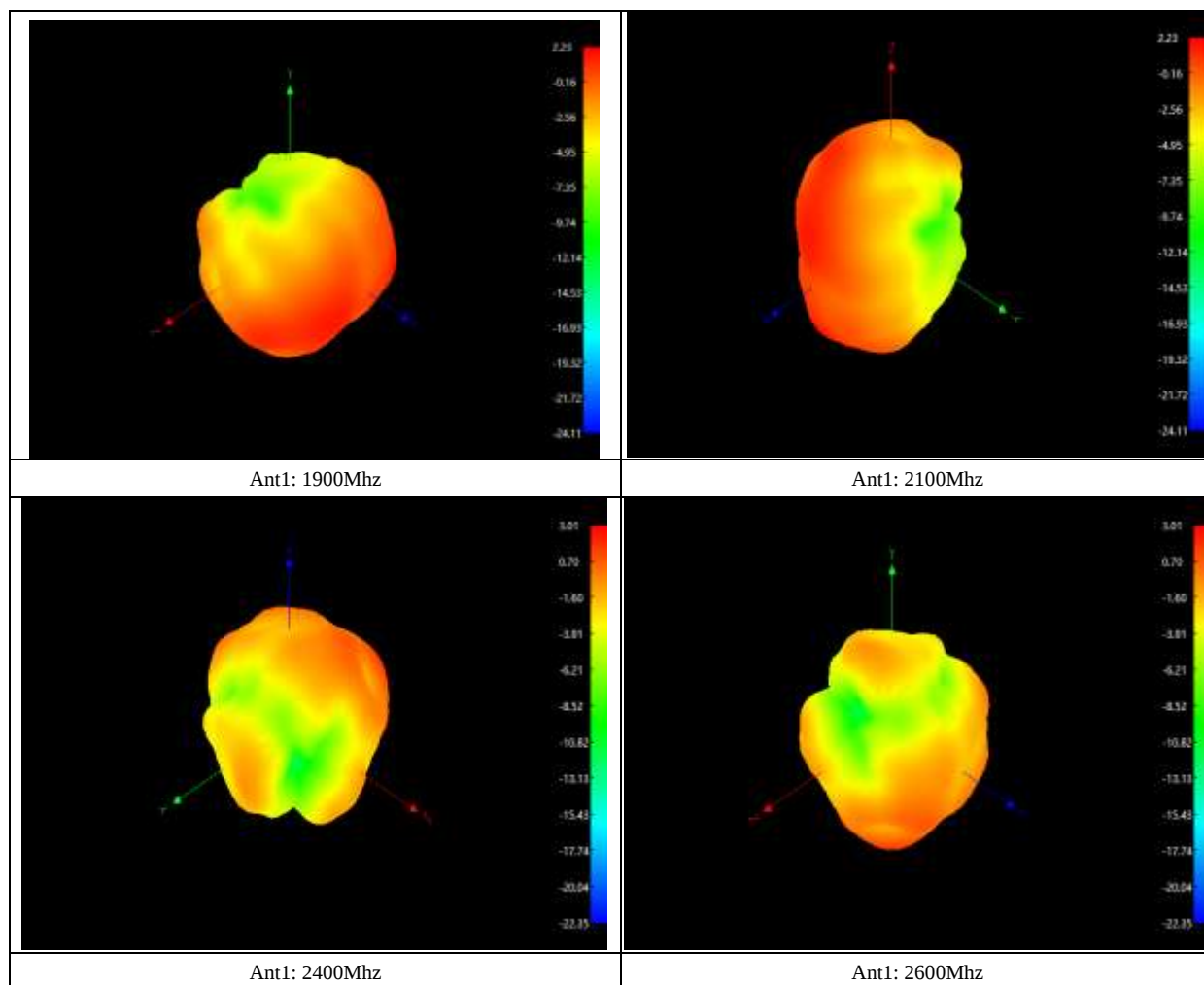
Ant0: 1900Mhz



Ant0: 2100Mhz

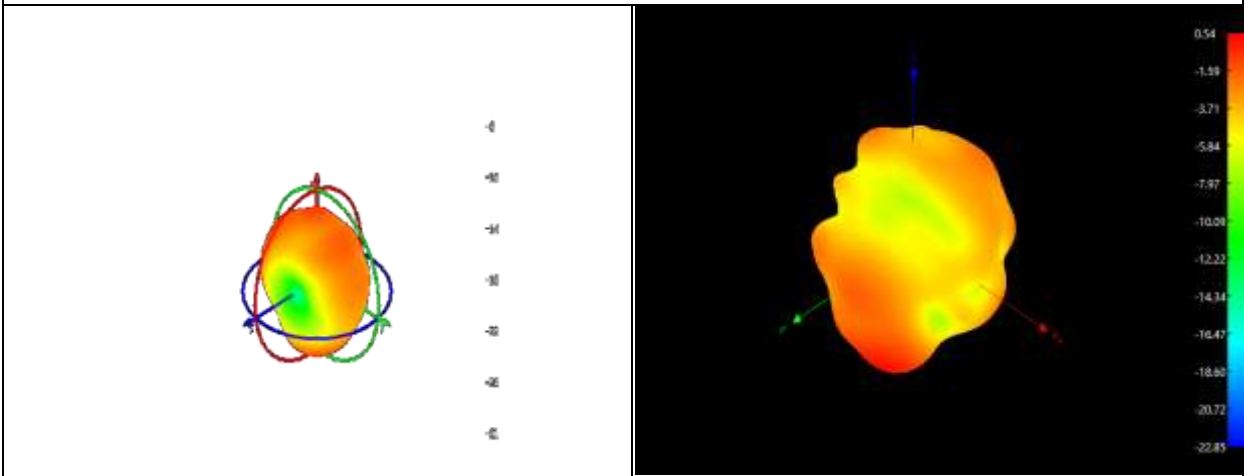


Technical Specification	
Ant1 3-D Patten Plots	
Ant1: 700Mhz	Ant1: 800Mhz
	
Ant1: 900Mhz	Ant1: 1700Mhz

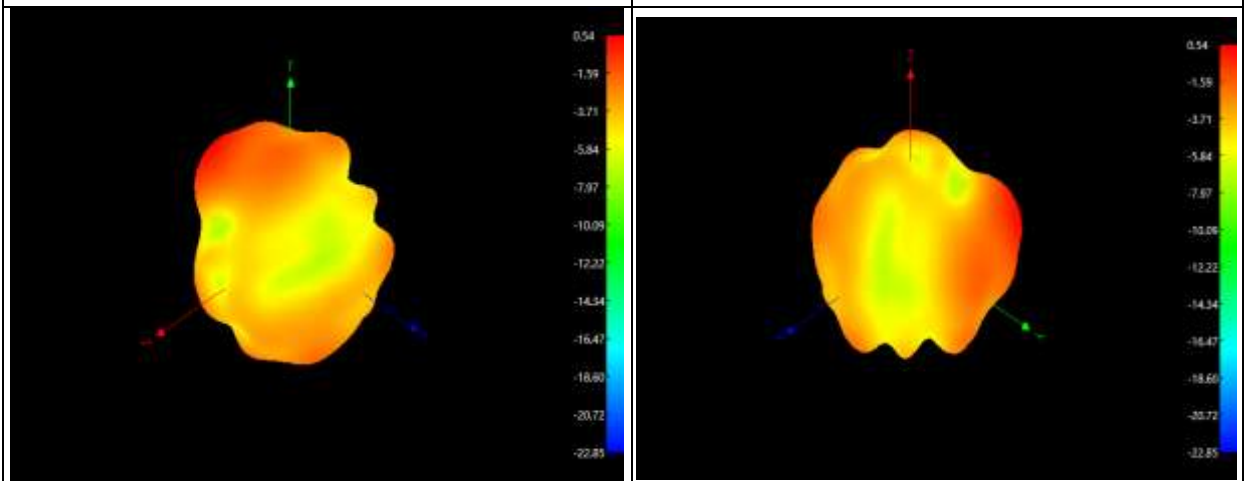


Technical Specification

Ant2 3-D Patten Plots



Ant7: 1575Mhz



Ant7: 2450Mhz

Ant7: 5500Mhz