



Antenna Test report

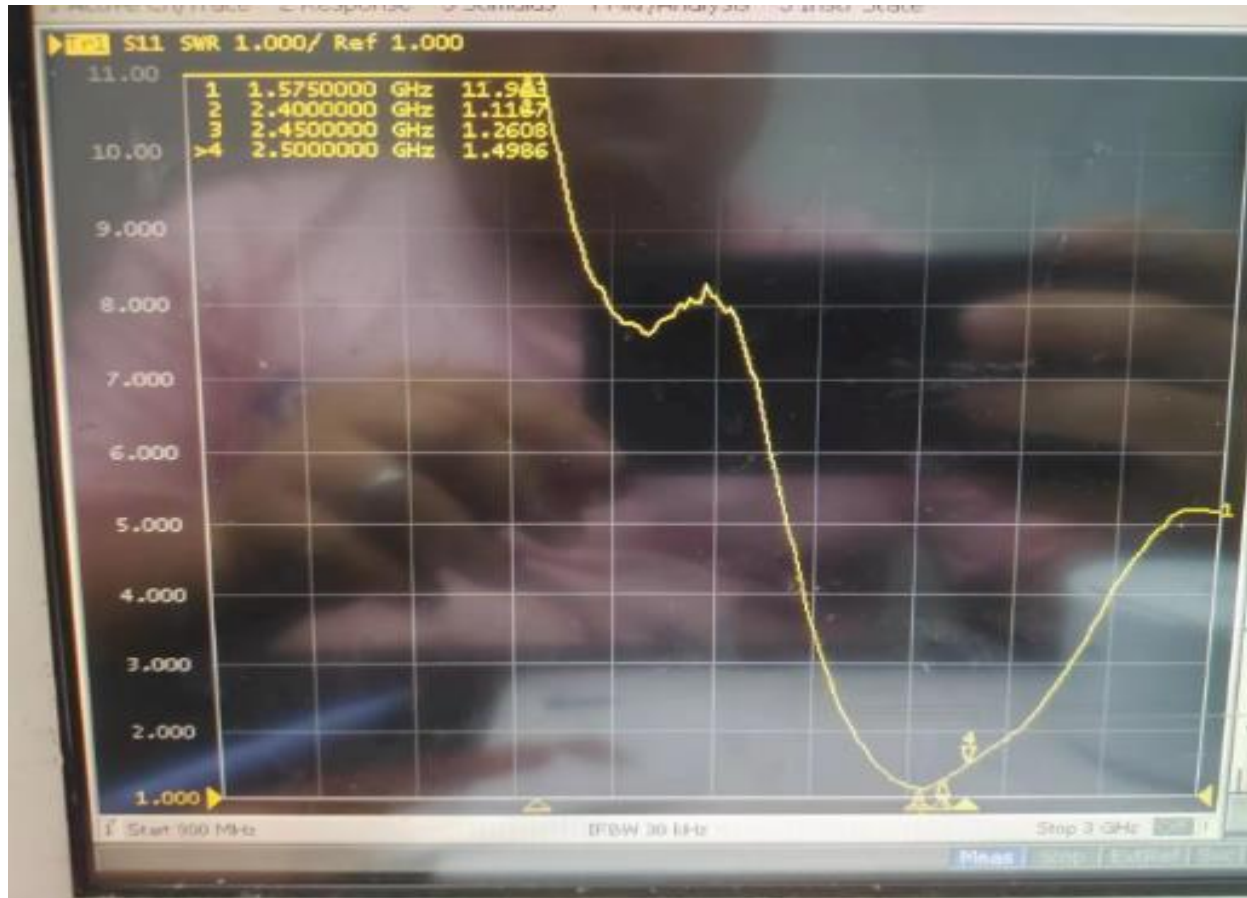


Electrical Characteristics	Frequency		Antenna Type	Antenna form	Design area	
			PCB Antenn	PIFA	Main board	
	BT	2400-2450MHz				
	WIFI	2.4G				

2 Antenna active test data

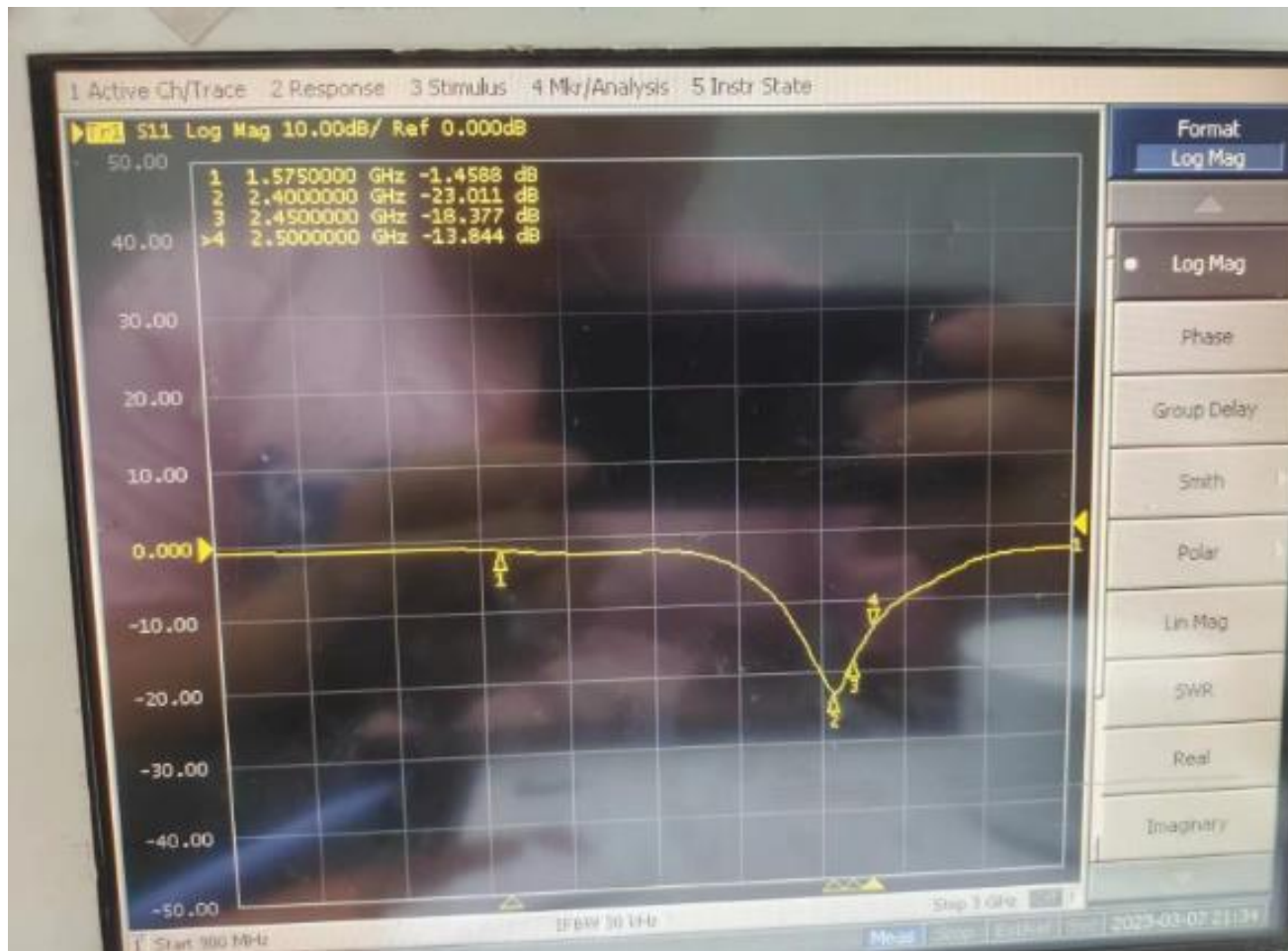
Passive Test For WIFI2.4							
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)
2400	60.04	-2.22	2.46	0.31	29.489	30.547	2.46
2410	57.24	-2.42	2.4	0.25	28.503	28.736	2.4
2420	54.09	-2.67	2.32	0.17	27.418	26.667	2.32
2430	52	-2.84	2.32	0.17	27.014	24.99	2.32
2440	52.98	-2.76	2.54	0.39	27.584	25.399	2.54
2450	54.48	-2.64	2.82	0.67	28.95	25.531	2.82
2460	53.41	-2.72	2.76	0.61	28.65	24.757	2.76
2470	55.7	-2.54	2.93	0.78	30.238	25.464	2.93
2480	54.75	-2.62	2.89	0.74	29.953	24.797	2.89
2490	56.45	-2.48	2.97	0.82	31.237	25.215	2.97
2500	57.37	-2.41	2.88	0.73	31.835	25.534	2.88

3.1 SWR



$\text{SWR} < 1.5$

3.2 SWR

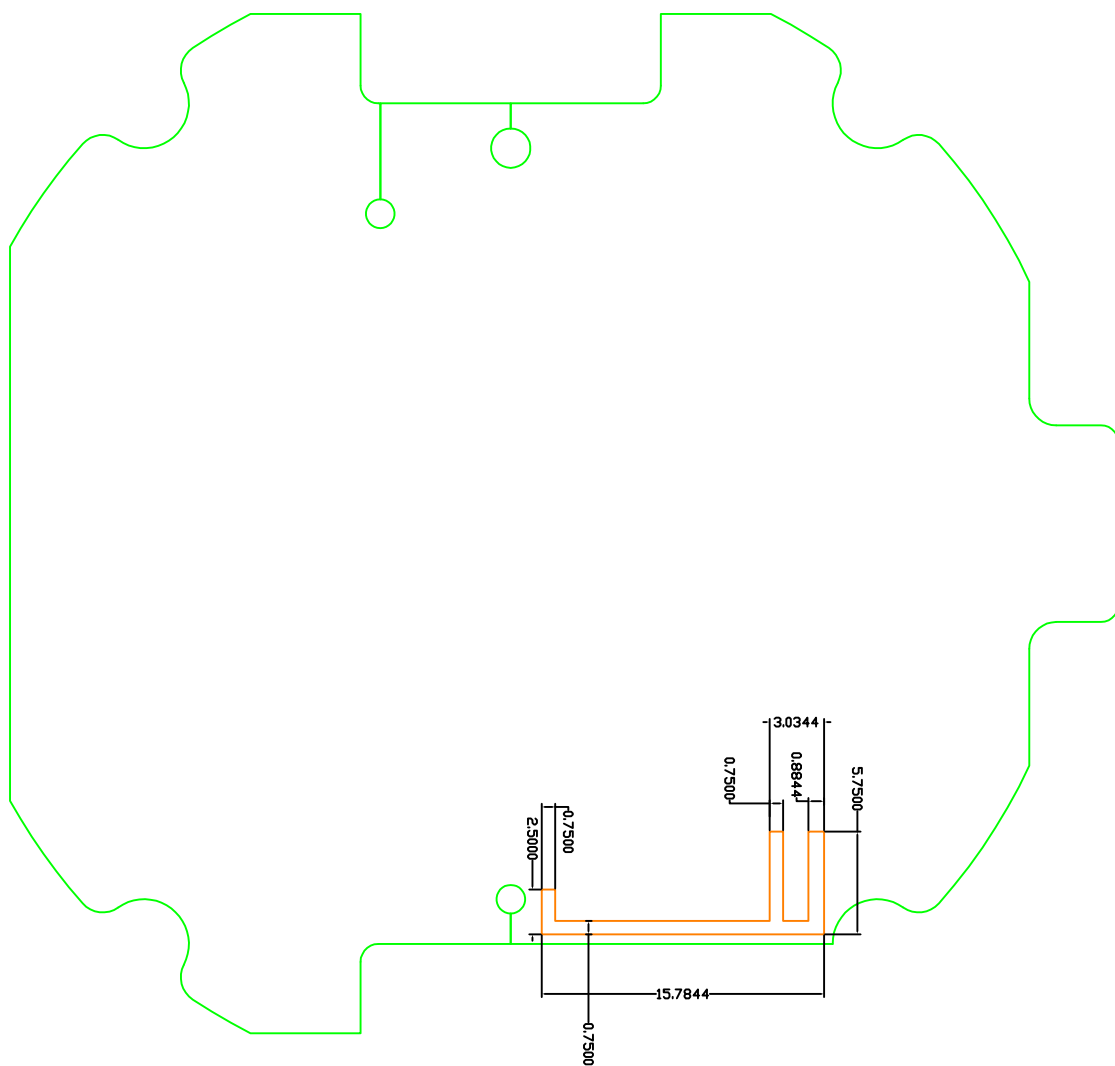


3.3 SWR

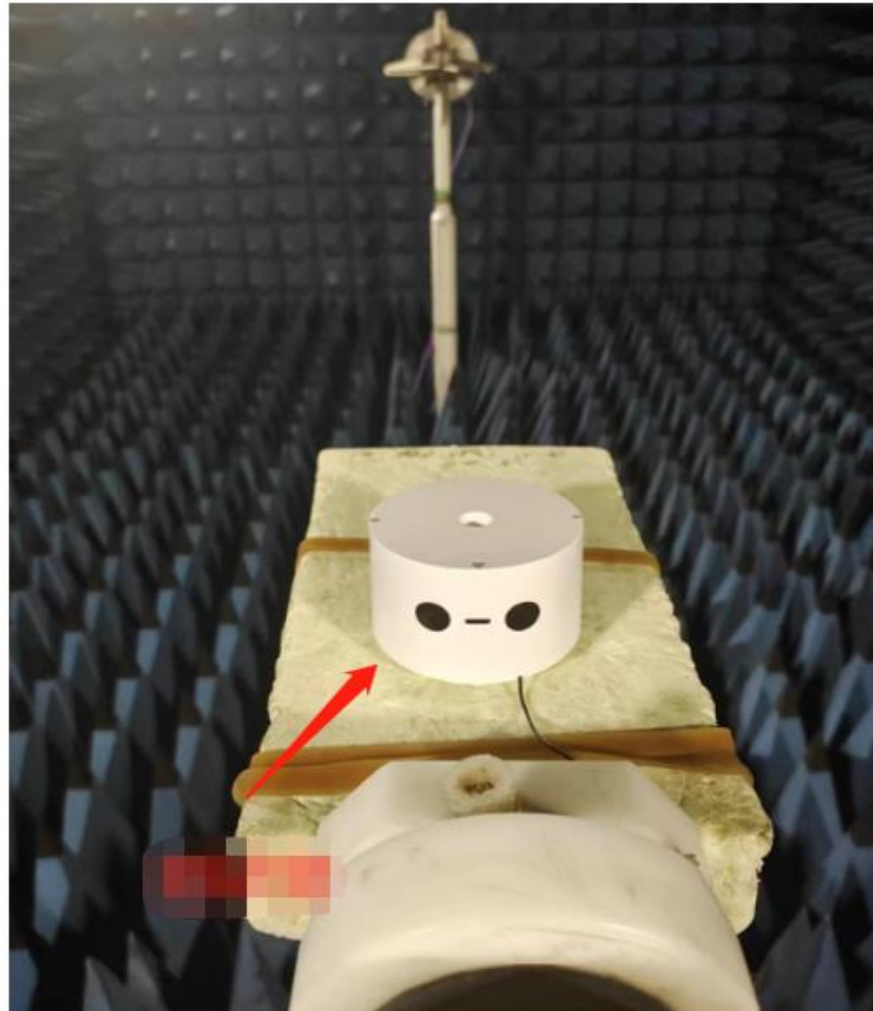


4 Antenna pattern

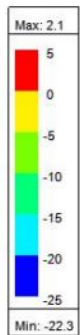




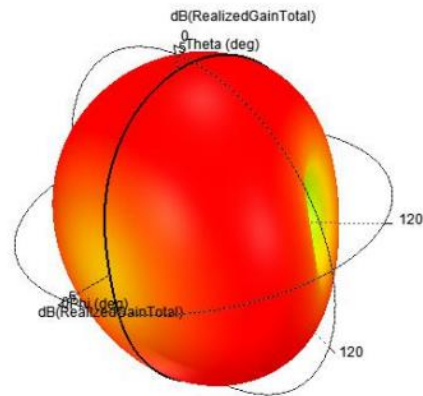
5 Antenna assembly drawing



6 Antenna 3D



Realized Gain Plot 1



ANSYS

Maker: ESPRESSIF

Add:#101, Block 2, 690 Bibo Road, Pudong, Shanghai China