
Antenna specifications

Electrical Characteristics Description

Model:	Makalu antenna		
Manufacturer:	Anhui Huami Information Technology Co., Ltd		
Address of Manufacturer:	Room 401-1, Building H8, Hefei Innovation Industrial Park Phase II, No.2800, Chuangxin Road, High-tech Zone, Hefei City, China (Anhui) Pilot Free Trade Zone		
Transmitter Frequency:	2400MHz-2483.5MHz		
Receiver Frequency:	1170 MHz -1180 MHz、 1570MHz-1580MHz、 2400MHz-2483.5MHz		
Antenna information:	Antenna Name	Model(s)/Type(s)	
	RF Antenna Assembly	Model/Part Number:	Makalu antenna
		Manufacturer:	Anhui Huami Information Technology Co., Ltd.
		Frequency Range:	1170 MHz -1180 MHz 1570MHz-1580MHz

			2400MHz-2483.5MHz
		Connector Type/ Maximum Gain	GNSS: -4.84dBi BT: -4.49dBi
		Antenna Type/ Pattern:	Antenna Dimension refer to External Photos for KSCR2509002164AT
		Measurement:	NA

Electrical Performance

S11 parameter-GPS L1 test result as Fig.2.

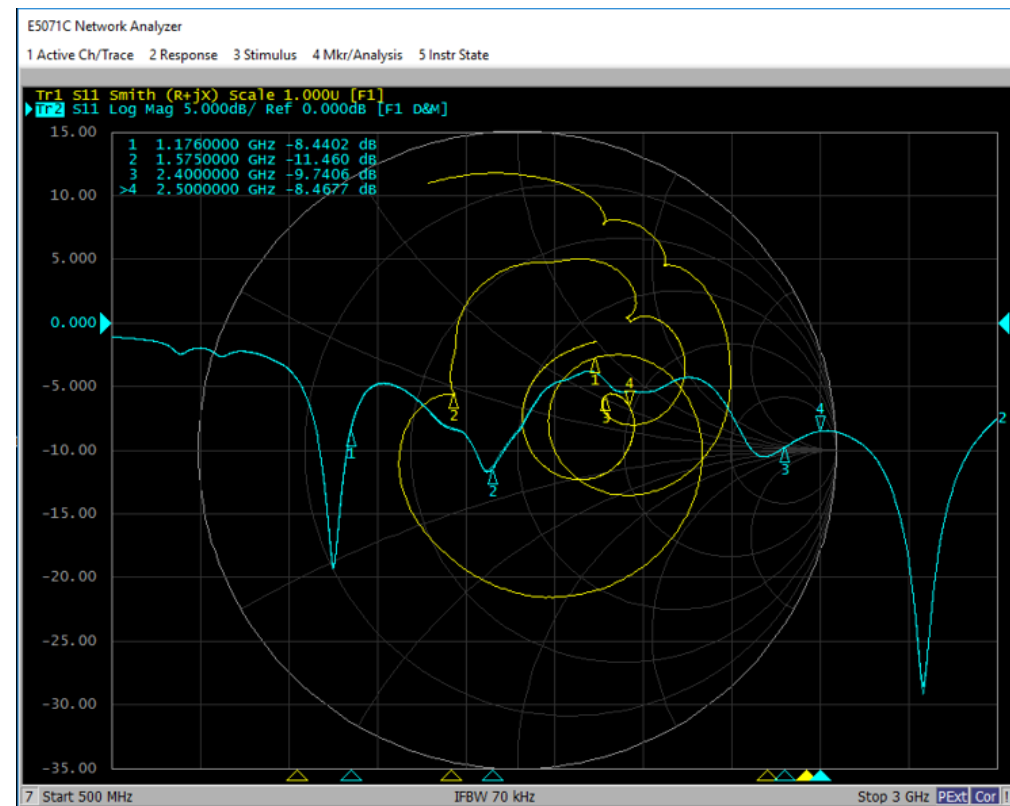


Fig. 1 S11 Parameter- GPS&BT test result

Table 1 shows the emission efficiency and the maximum gain of the antenna at different frequencies changes. The antenna radiation pattern diagram show in Fig.4.

GPS			
频率\MHz	效率\dB	Gain\dB	效率\%
1165	-16.58	-10.31	2.2
1175	-16.86	-10.66	2.06
1185	-17.08	-10.94	1.96
1565	-9.7	-5.49	10.71
1575	-9.65	-5.17	10.84
1585	-9.67	-5.02	10.79
1595	-9.73	-4.91	10.63
1605	-9.82	-4.84	10.42

BT			
频率\MHz	效率\dB	Gain\dB	效率\%
2400	-9.75	-4.49	10.59
2410	-9.82	-4.64	10.43
2420	-9.88	-4.73	10.28
2430	-9.95	-4.87	10.11
2440	-9.99	-4.98	10.02
2450	-10.02	-5.06	9.96
2460	-10.11	-5.3	9.75
2470	-10.2	-5.47	9.56
2480	-10.22	-5.67	9.51
2490	-10.26	-5.73	9.42
2500	-10.31	-6.02	9.31

Table 2: Max. Gain and Efficiency Vs. Frequency

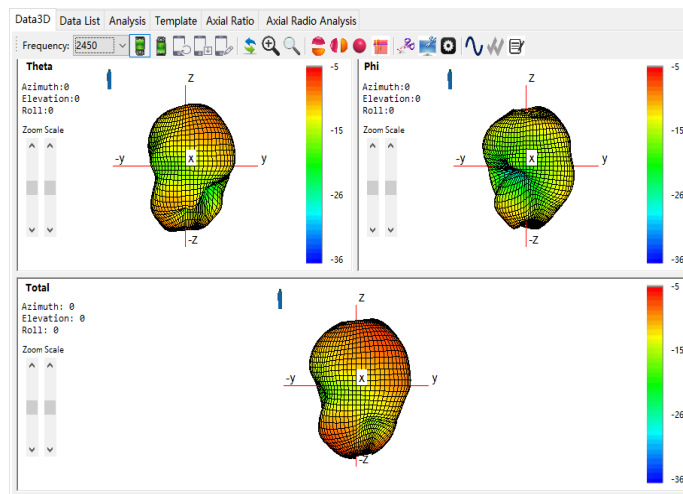
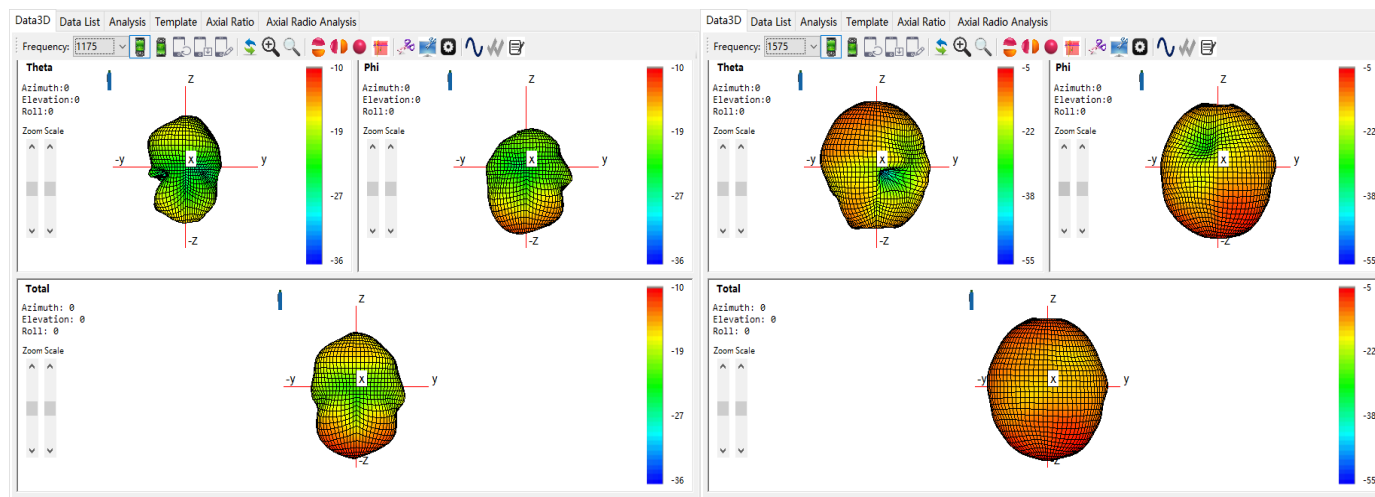


Fig. 2 antenna radiation pattern diagram