
Antenna specifications

Electrical Characteristics Description

Model:	Matterhorn antenna		
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:	Matterhorn
		Manufacturer:	Anhui Huami Information Technology Co., Ltd.
		Frequency Range:	1170 MHz -1180 MHz 1570MHz-1580MHz 2400MHz-2483.5MHz
		Connector Type/ Maximum Gain	GNSS: -3.65dBi BT: -6.02dBi
		Antenna Type/ Pattern:	IFA/Coupling
		Antenna Size	See below pic
		Measurement:	NA

Dimensions Fig:

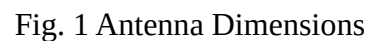


Fig. 1 Antenna Dimensions

Electrical Performance

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

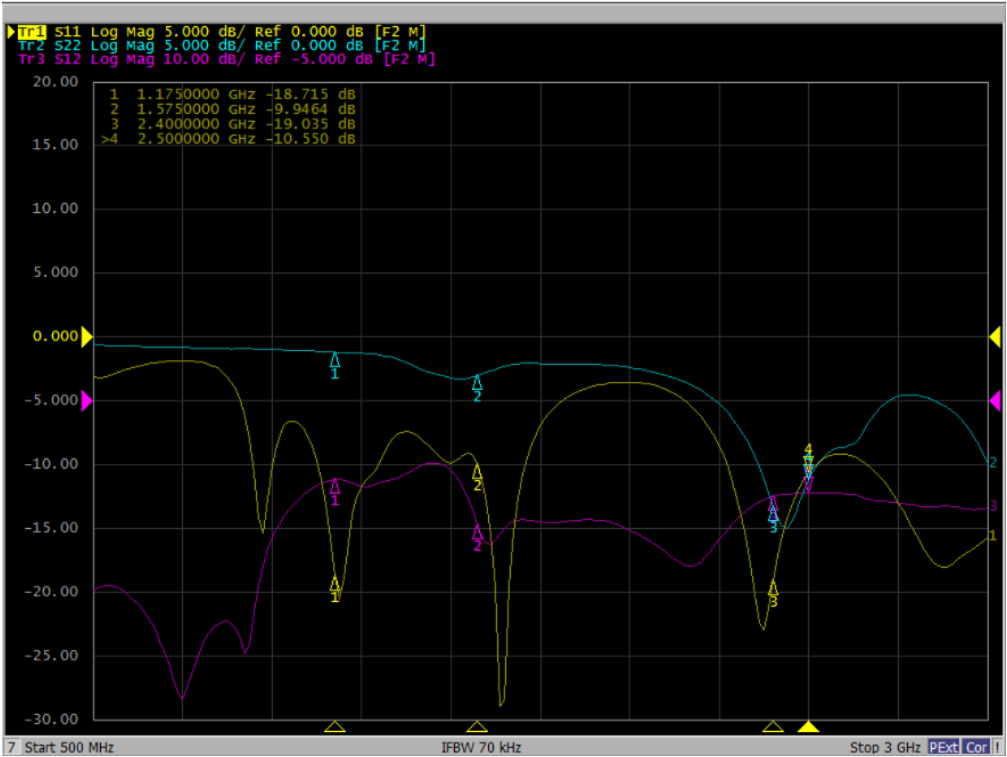


Fig. 2 S11 Parameter- BT test result

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	增益\dB _i	效率\%
1165	-14.95	-13.01	3.2
1175	-14.71	-12.95	3.38
1185	-14.5	-12.62	3.55
1565	-7.66	-3.92	17.15
1575	-7.46	-3.84	17.96
1585	-7.16	-3.65	19.21

BT			
频率\MHz	效率\dB	增益\dB _i	效率\%
2400	-8.61	-6.24	13.76
2410	-8.64	-6.14	13.67
2420	-8.69	-6.04	13.51
2430	-8.79	-6.04	13.2
2440	-8.85	-6.02	13.04
2450	-8.94	-6.02	12.77
2460	-9.04	-6.1	12.49
2470	-9.16	-6.2	12.13
2480	-9.24	-6.26	11.91
2490	-9.29	-6.26	11.78
2500	-9.37	-6.18	11.57

Table 1Max. Gain and Efficiency Vs. Frequency

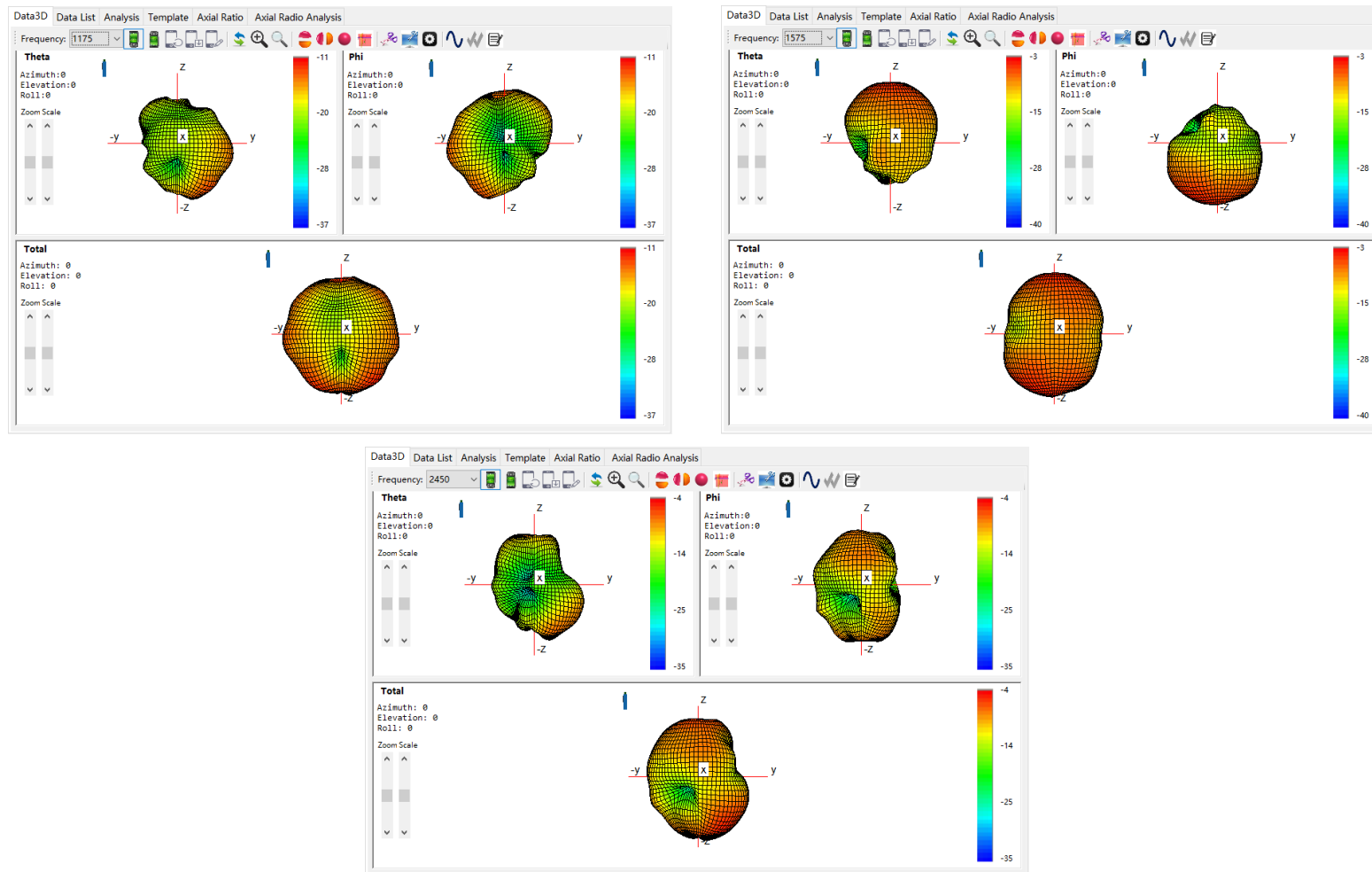


Fig. 4 antenna radiation pattern diagram