

Antenna specifications

Electrical Characteristics Description

Model:	Atlas 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:	Atlas antenna
		Manufacturer:	Anhui Huami Information Technology Co., Ltd.
		Address:	Room 401-1, Building H8, Hefei Innovation Industrial Park Phase II, No.2800, Chuangxin Road, High-tech Zone, Hefei City, Anhui Pilot Free Trade Zone, China
		Frequency Range:	1170 MHz -1180 MHz 1570MHz-1580MHz 2400MHz-2483.5MHz
		Connector Type/ Maximum Gain	GNSS: -8.63dBi BT: -5.75dBi
		Antenna Type/ Pattern:	Metal
		Measurement:	NA

Dimensions

Dimensions Fig:

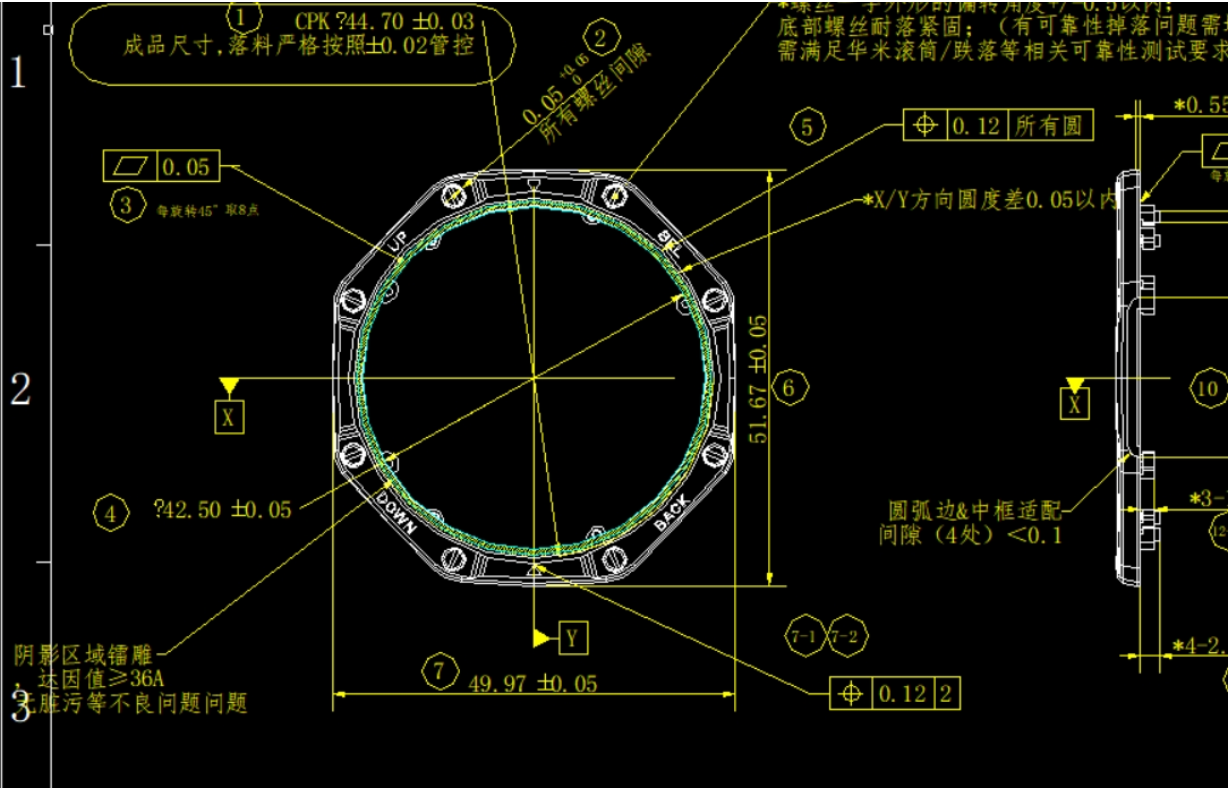
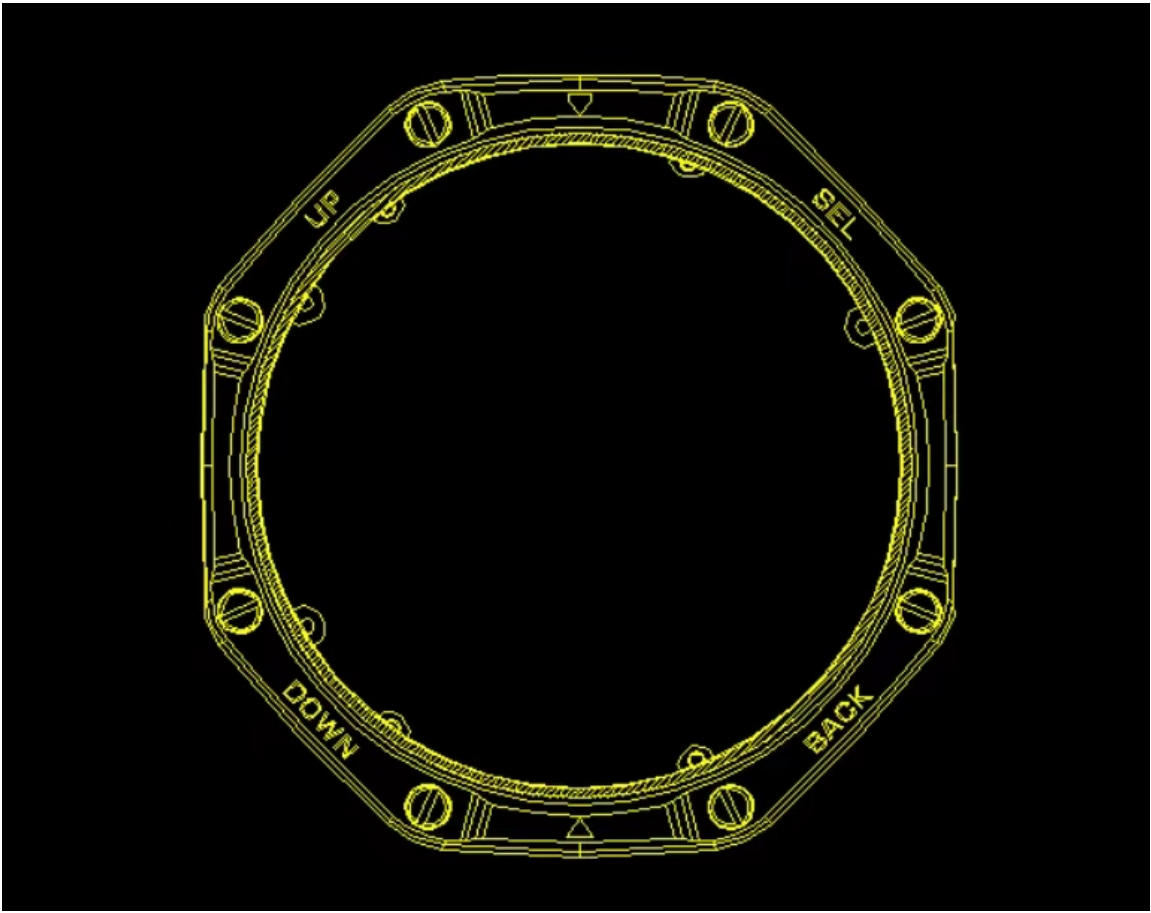


Fig. 1 Antenna Dimensions



Electrical Performance

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

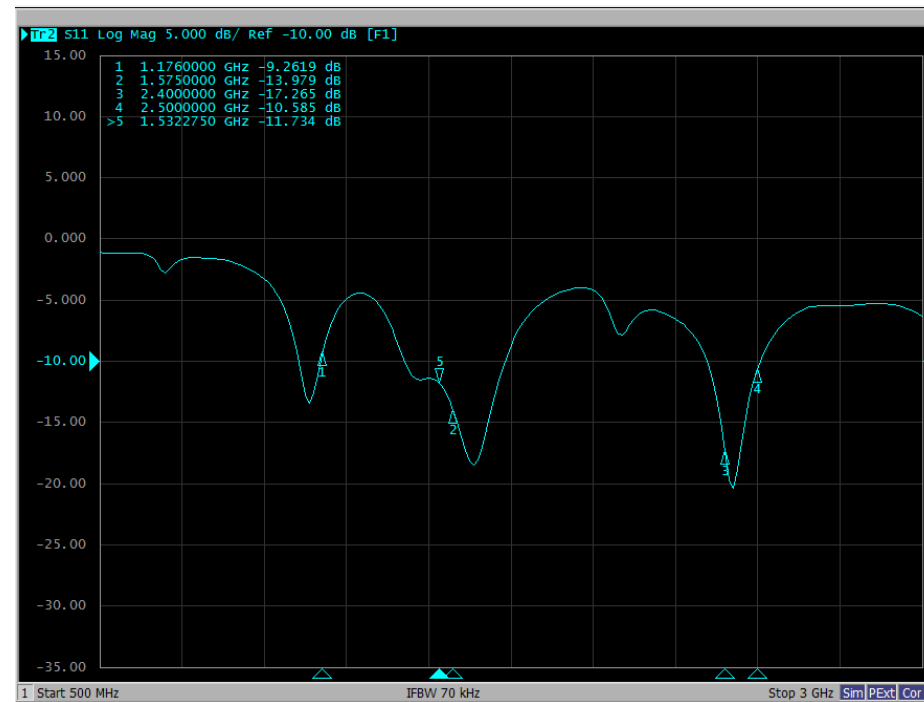


Fig. 2 S11 Parameter- GPS&BT test result

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	Eff\dB	Gain\dB	Eff\%
1165	-15.34	-14.98	2.93
1175	-15.57	-15.46	2.77
1185	-15.83	-16	2.61
1565	-14.15	-9.39	3.85
1575	-13.86	-9.21	4.11
1585	-13.57	-9.07	4.39
1595	-13.29	-8.94	4.69
1605	-13	-8.77	5.01
1615	-12.74	-8.63	5.32

BT			
频率\MHz	Eff\dB	Gain\dB	Eff\%
2400	-10.51	-5.75	8.89
2410	-10.49	-5.85	8.93
2420	-10.5	-5.97	8.92
2430	-10.58	-6.16	8.76
2440	-10.66	-6.35	8.59
2450	-10.79	-6.58	8.33
2460	-10.99	-6.74	7.95
2470	-11.22	-7.05	7.55
2480	-11.43	-7.29	7.2
2490	-11.63	-7.57	6.87
2500	-11.86	-7.81	6.52

Table 1Max. Gain and Efficiency Vs. Frequency

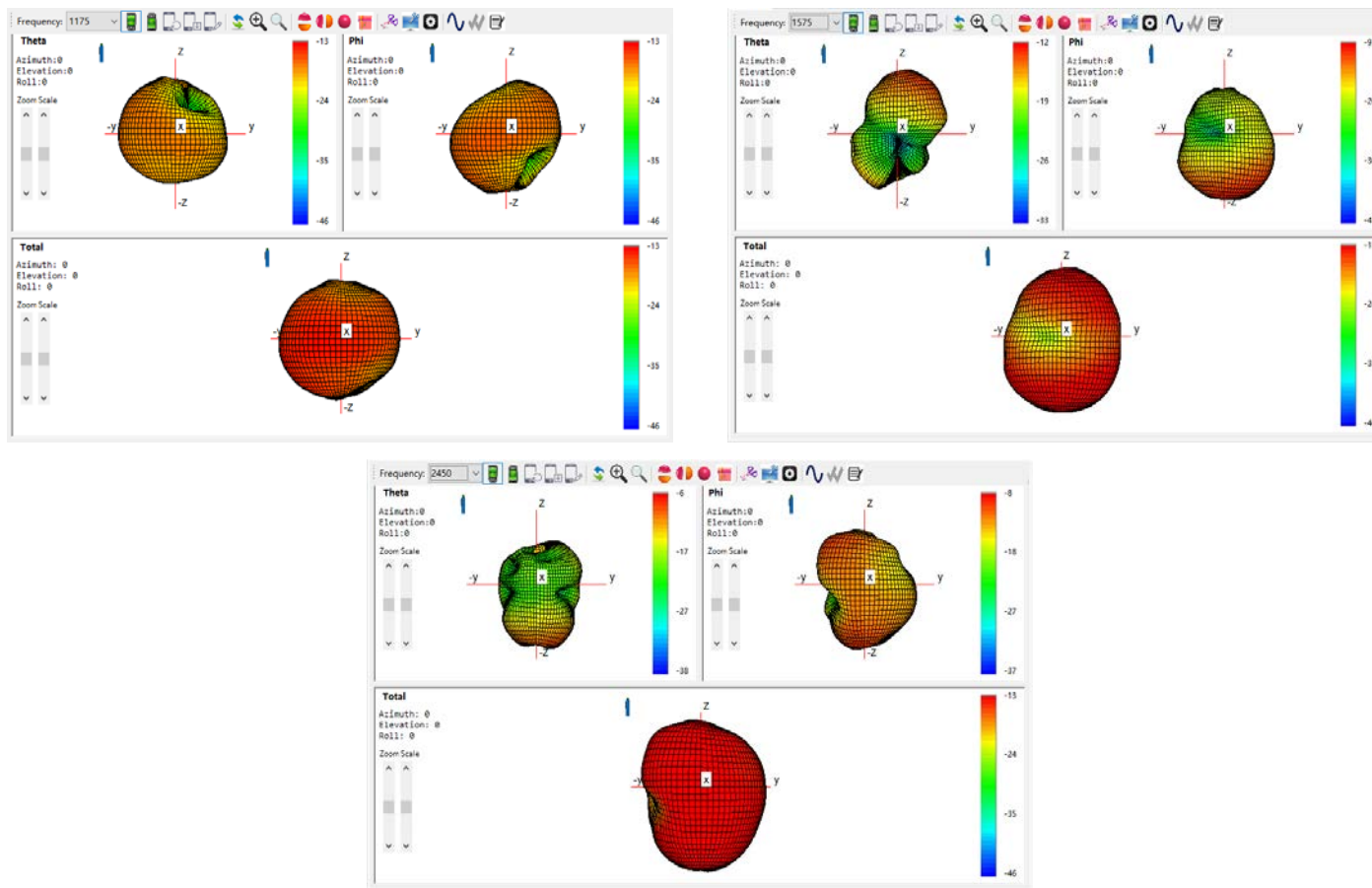


Fig. 4 antenna radiation pattern diagram