

Antenna Sample Datasheet

customer:	Shenzhen Xinyuedong Technology Co., Ltd.
entry name:	XYD8501C
Material category:	BT/WIFI-ANT
Antenna Type	PIFA
Antenna Material	FPC
edition:	A3
Date:	2026. 5. 8

Antenna manufacturer:Hongji Wireless Communication (Shenzhen) Co.,
LTD

<http://www.honant.com.cn>

Address:12 / F, West Block B, Building 8, Huaqiang Creative Industry
Park, Sightseeing Road, Guangming District, Shenzhen

Contents

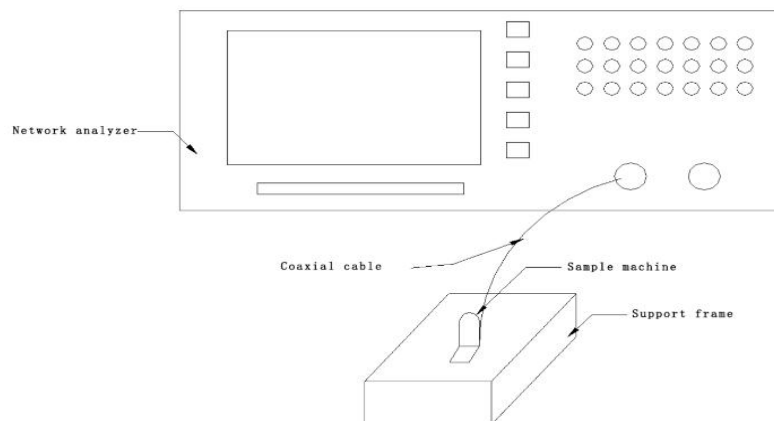
1: Antenna test equipment.....	1
2: Passive test report.....	3
3: Structural drawing.....	5
4: Antenna diagram.....	6

1: Antenna test equipment

List of meters: Agilent 5071B;

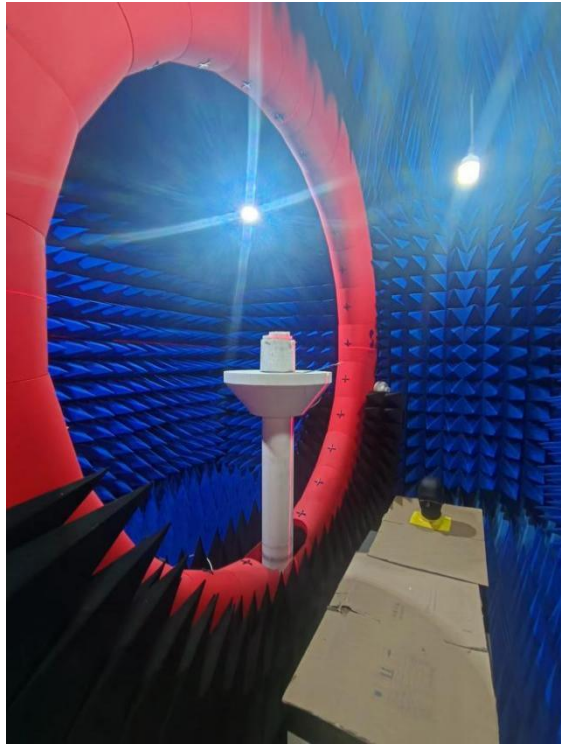


1.1The principle diagram of the ETS anechoic chamber



Picture1.Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



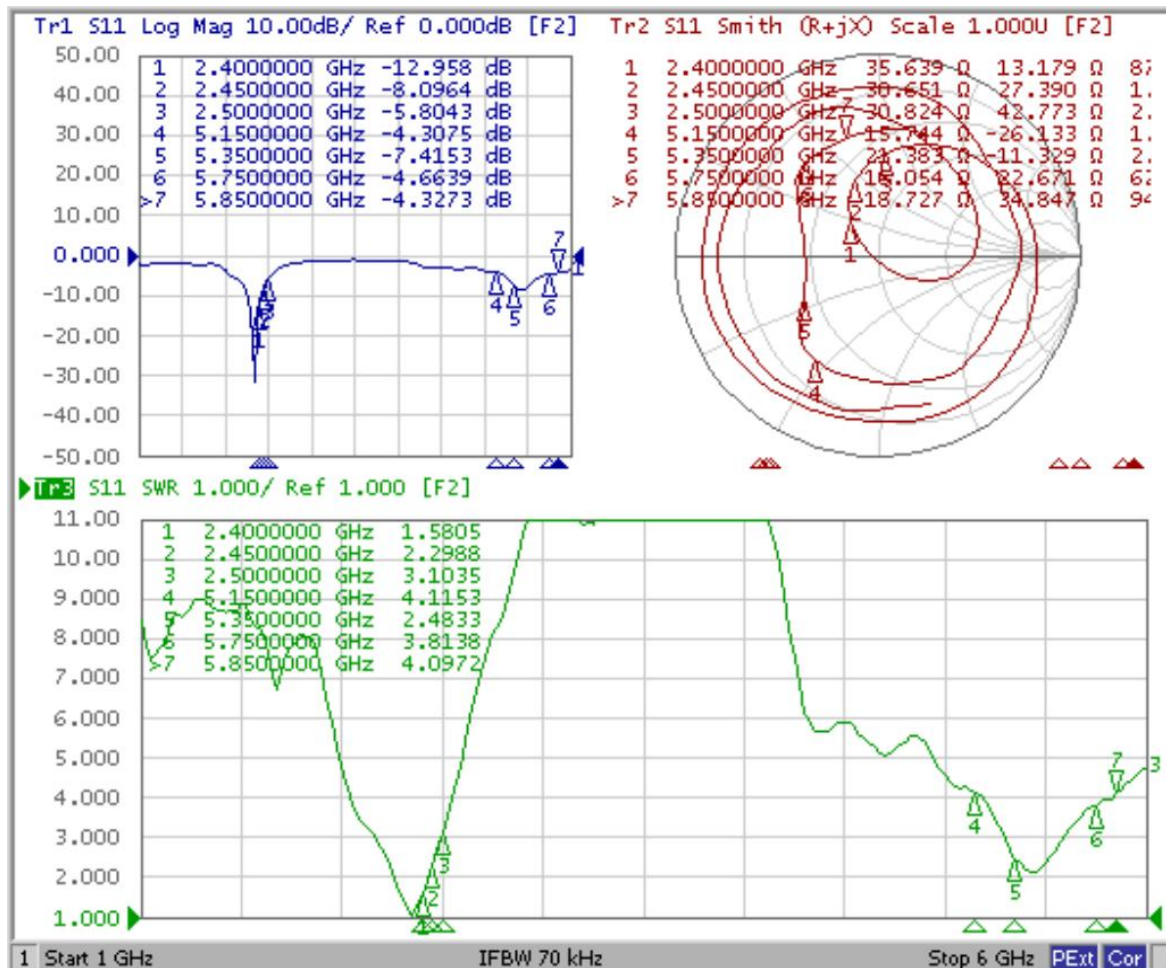
Inside the ETS anechoic chamber



Test Machine

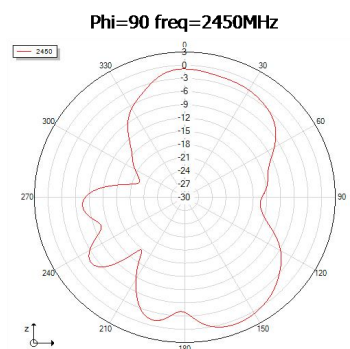
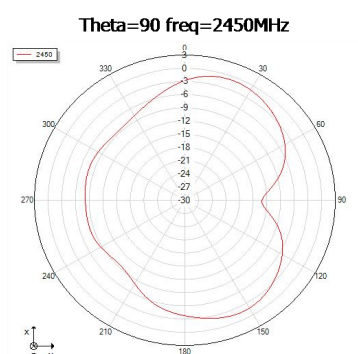
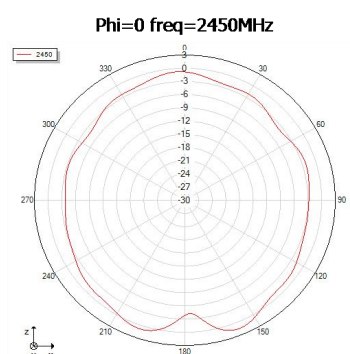
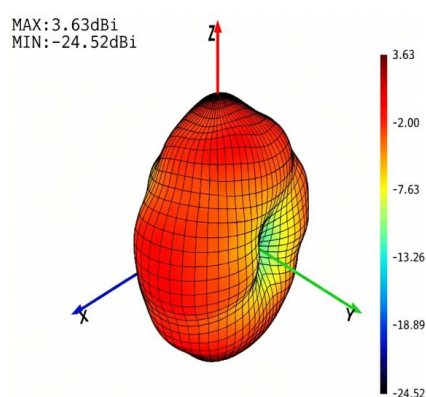
2: Passive test report

2.1: antenna S11 parameters



2.2: Passive efficiency of BT antenna

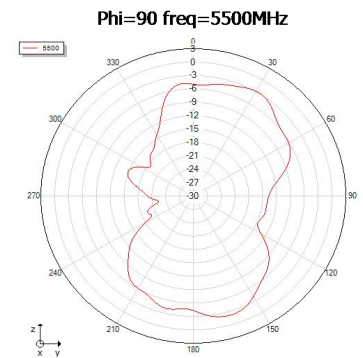
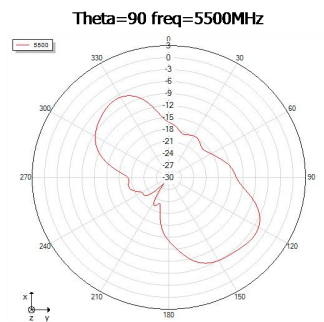
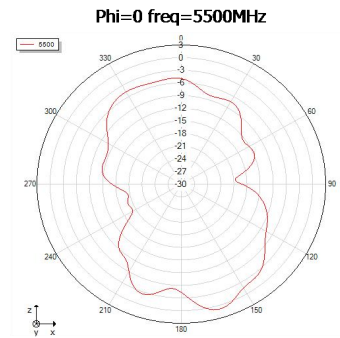
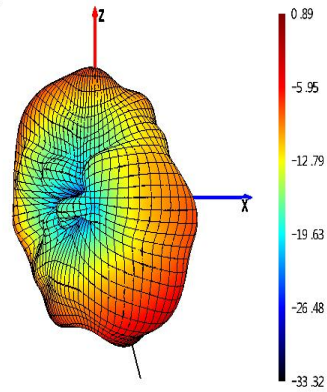
频点 MHz	增益(dBi)	效率(dB)	效率 (%)
2400	3.74	-4.95	31.99
2410	3.89	-5.15	30.55
2420	3.98	-5.25	29.85
2430	3.8	-5.35	29.14
2440	3.45	-5.45	28.44
2450	3.63	-5.65	27.11
2460	3.82	-5.55	27.74
2470	3.41	-5.5	28.18
2480	3.48	-5.53	27.98



2.3: Passive efficiency of WIFI antenna

频点 MHz	增益(dBi)	效率(dB)	效率 (%)
5150	-2.91	-5.32	29.34
5200	-2.79	-5.18	30.24
5250	-2.79	-4.99	31.46
5300	-2.22	-4.83	32.87
5350	-1.91	-4.56	34.94
5400	-1.02	-4.41	36.24
5450	-0.65	-4.23	37.80
5500	0.89	-4.24	37.65
5550	1.48	-4.01	39.74
5600	1.81	-4.08	39.08
5650	1.99	-4.55	35.08
5700	2.16	-4.80	33.10
5750	2.75	-5.06	31.20
5800	2.94	-4.84	32.80
5850	2.62	-4.18	38.20

MAX:0.89dBi
 MIN:-33.32dBi



3: Structural drawing

