
Antenna Specifications

Model No. HS5100S-Woofer

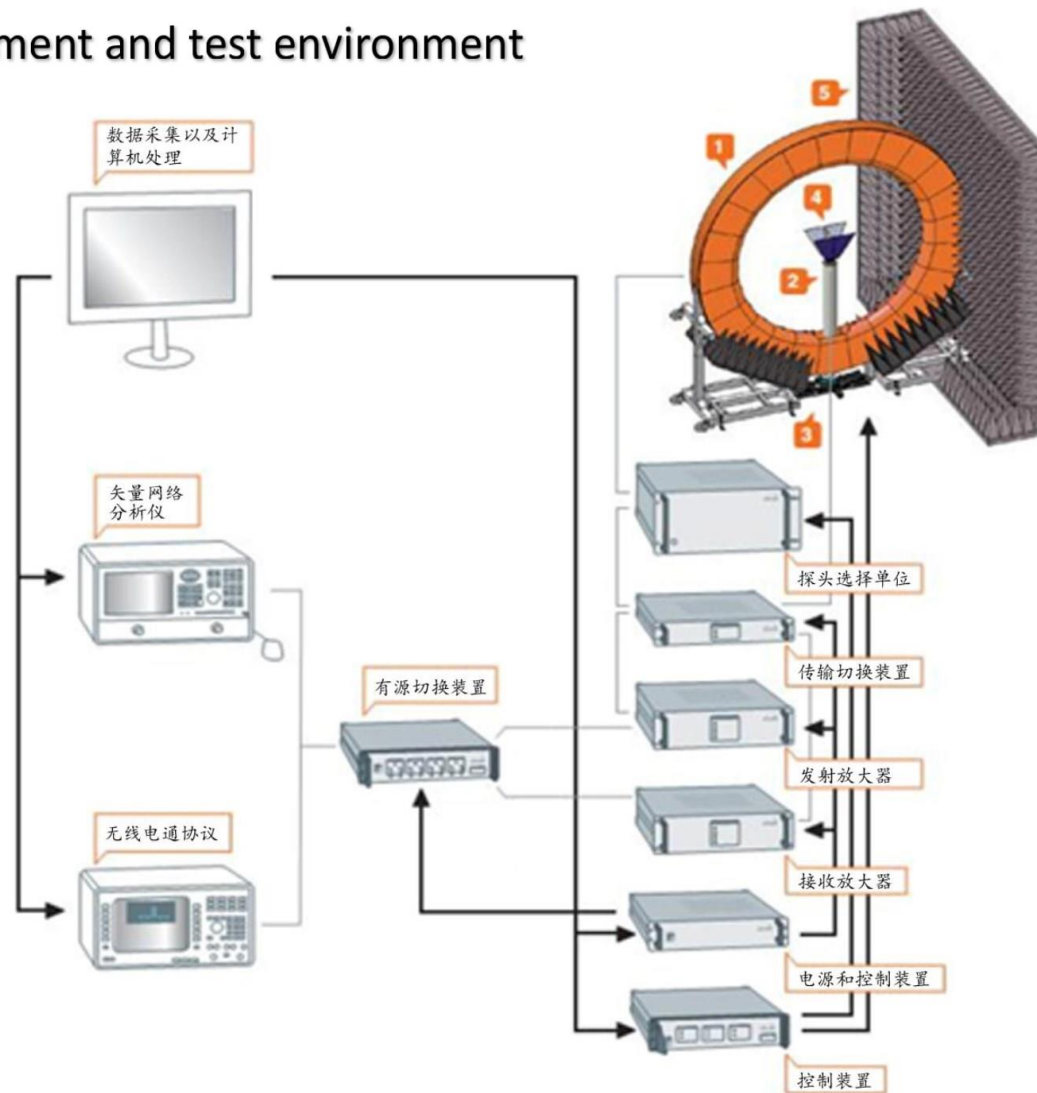
Manufacture: Eastech (Huizhou) Co., Ltd

Manufacture address :Building 6 (Unit 1 of 1/F and all units of 2/F to 8/F),
Meilonghu Intelligent Manufacturing Industrial Park (Phase II)
between Dongfong Village's junction with Chanjing Village of Xinxu,
No. 1, Xinglong Road, Xinxu, Huiyang, Huizhou City, 516226 Guangdong, P.R. China

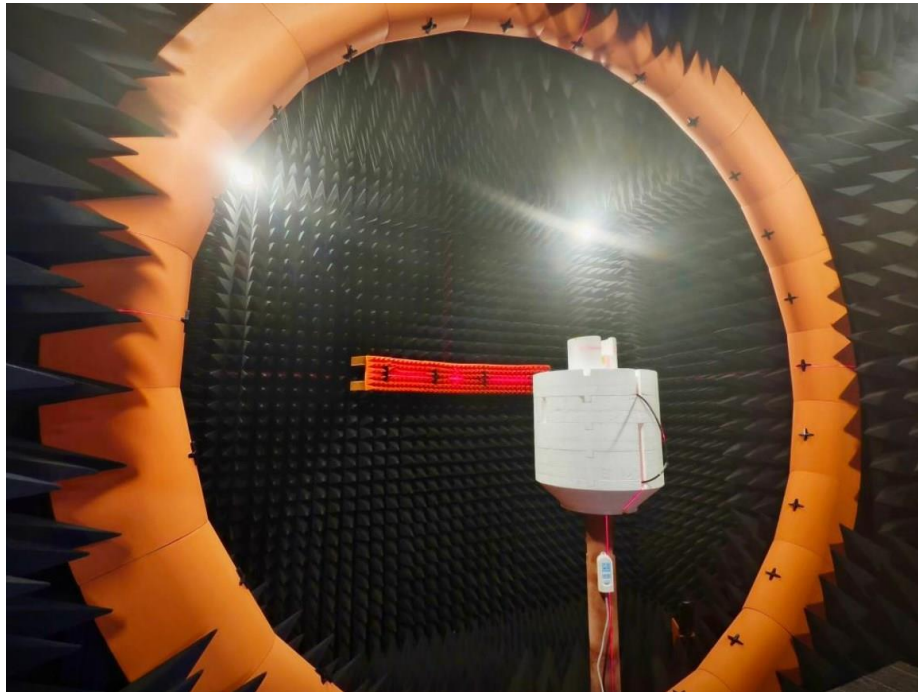
Tested BY: Xingxi Xia

Test data: 2026-5-22

Test equipment and test environment



Test equipment



Probe microwave anechoic chamber

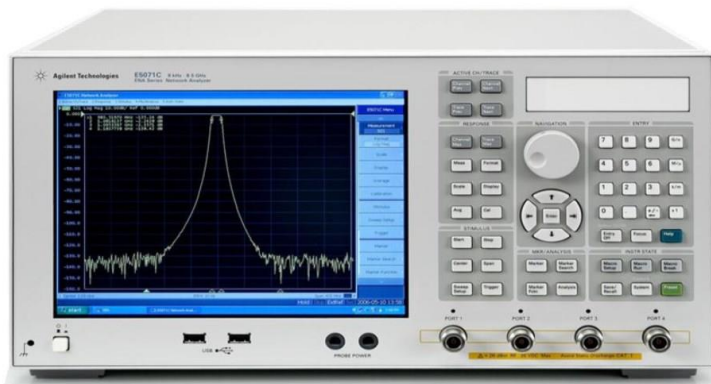


Frequency Range : 0.4GHz-12GHz

Main test indicators

- ◆ Passive indicators
- ◆ Gain ◆ Effectiveness
- ◆ 3D pattern
- Active indicator
- TRP total radiated power
- TIS total receiving sensitivity

Test equipment



Agilent E5071C Vector network analyzer

- Frequency Range : 300 kHz - 8.5GHz



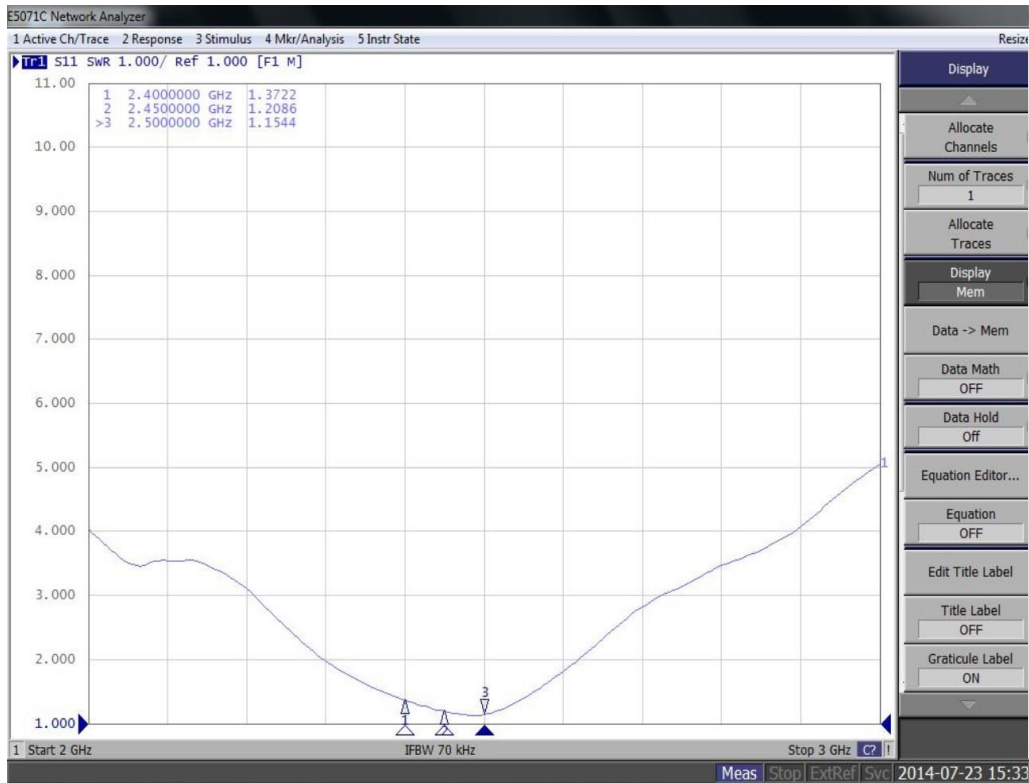
R&S CMW500 Broadband wireless communication tester

- GSM/3G/4G/e-MTC
- WIFI/ Bluetooth
- NB-IoT

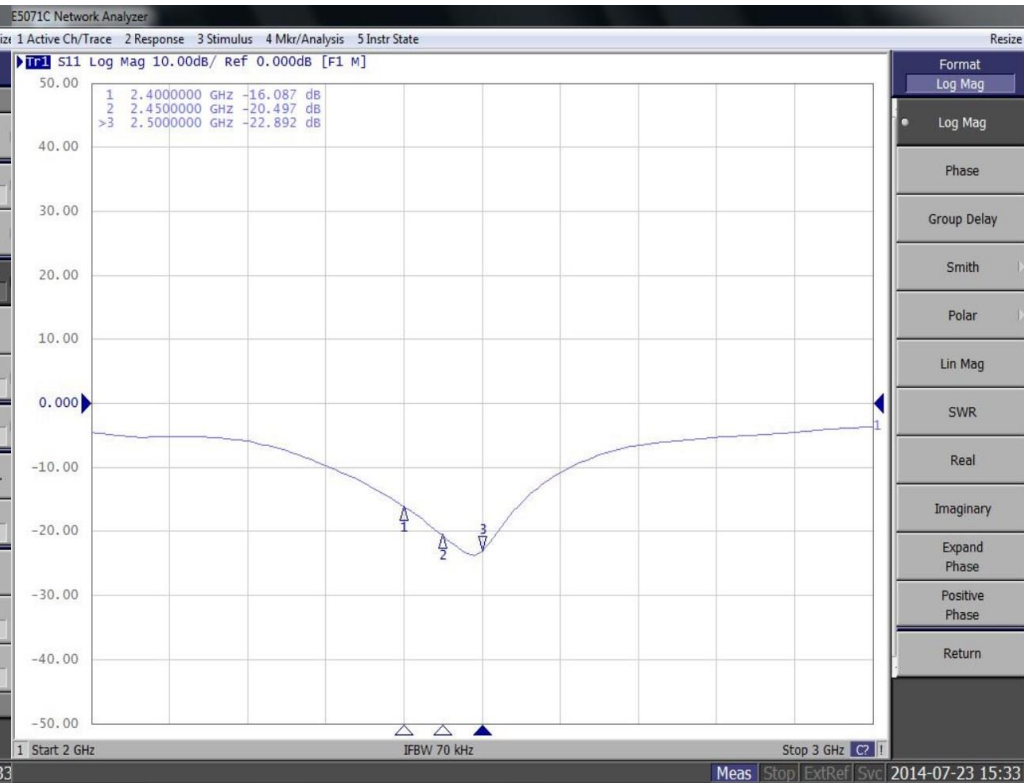
Antenna location and method



Antenna SWR



Antenna Return loss

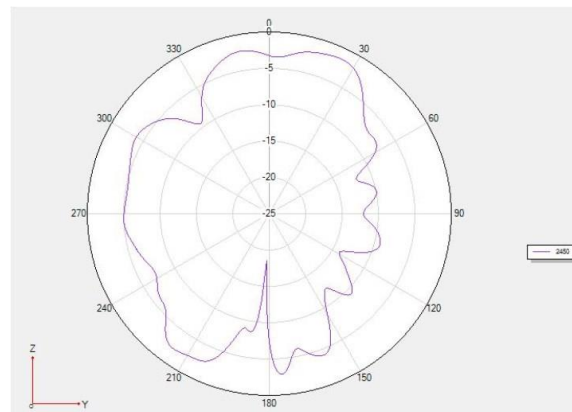
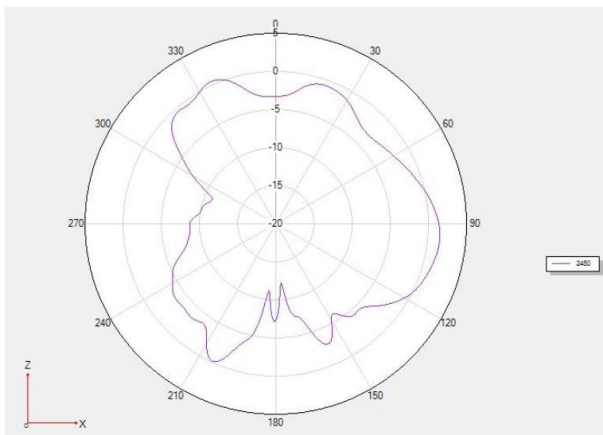


Antenna gain and efficiency

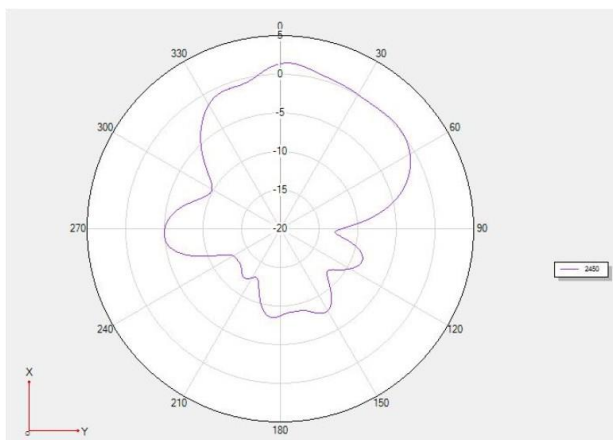
Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	44.98	1.49
2410	46.67	1.56
2420	48.08	1.81
2430	50.47	2.11
2440	52.84	2.12
2450	50.7	2.27
2460	49.66	2.26
2470	49.66	2
2480	47.32	1.68
2490	46.03	1.66
2500	45.92	1.97

Antenna Radiation Pattern

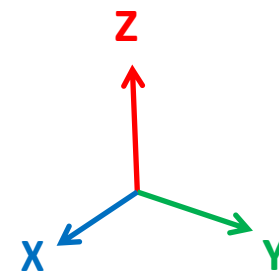
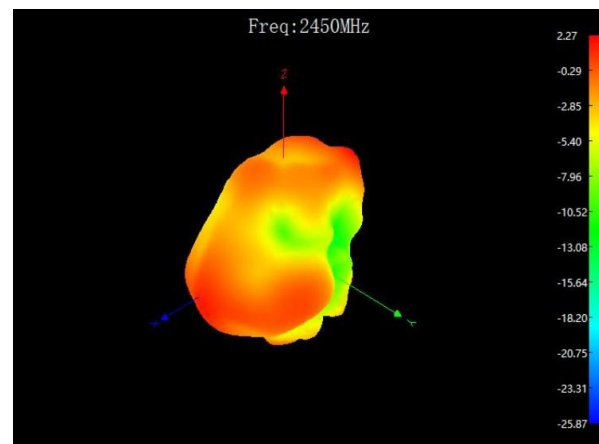
Phi 0 2D



Theta 90 2D



3D pattern



OTA Active data

OTAActive data			
(mode)	(channel)	TRP	TIS
Bluetooth	L(0)	8.29	-91.01
	M(39)	8.04	-92.23
	H(78)	6.66	-93.25

Antenna dimensions

