

Antenna Specifications

Model No. HS3100S-Bar

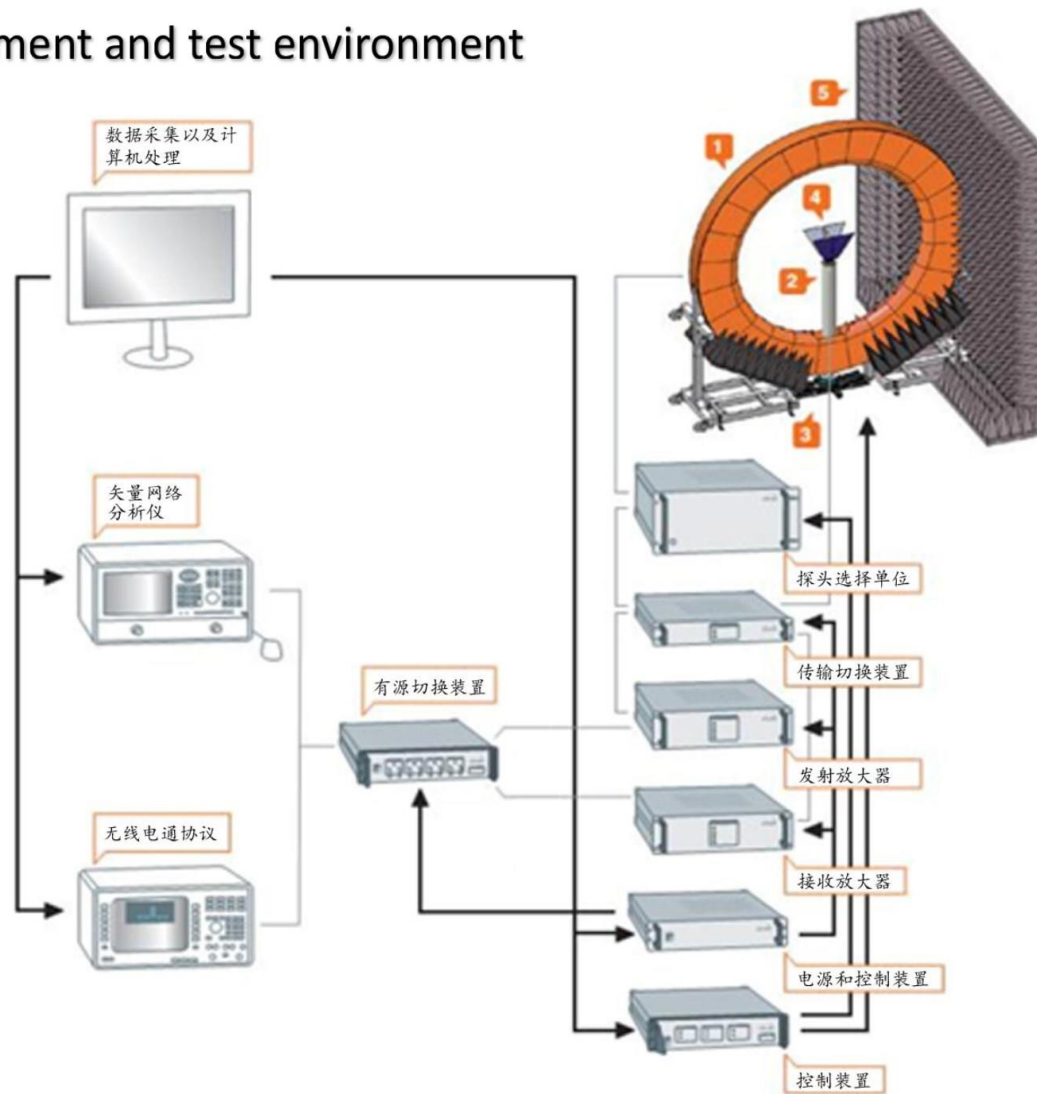
Manufacture: Eastech (Huizhou) Co., Ltd

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

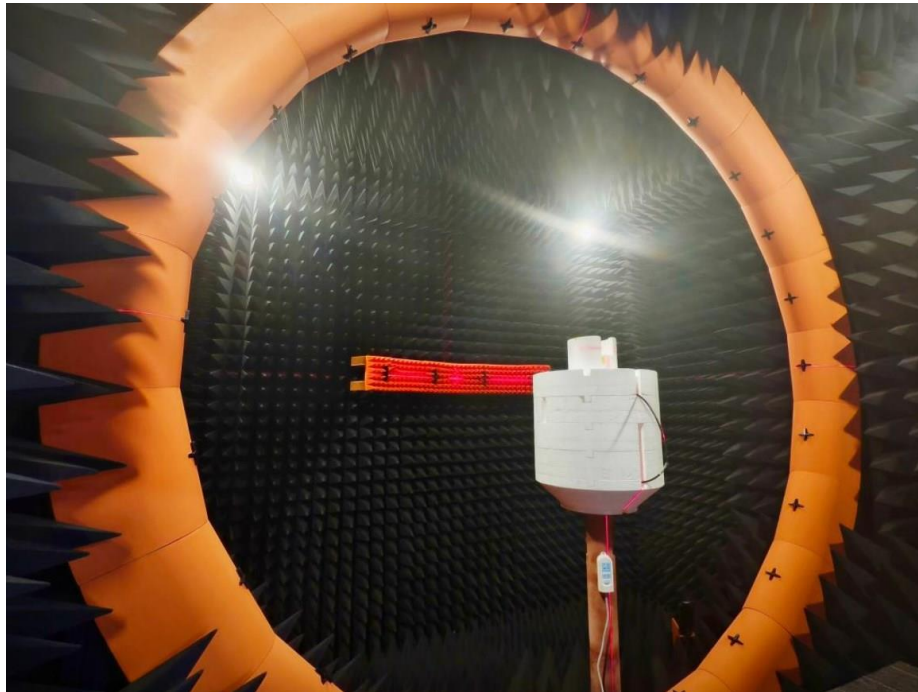
Tested BY: Xingxi Xia

Test data: 2026-5-22

Test equipment and test environment



Test equipment



Probe microwave anechoic chamber

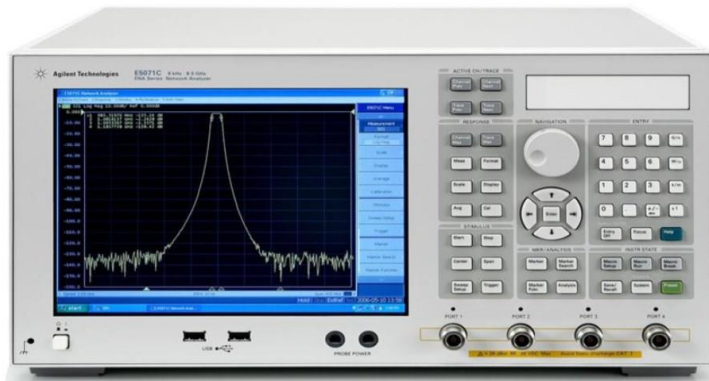


Frequency Range : 0.4GHz-12GHz

Main test indicators

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

Test equipment



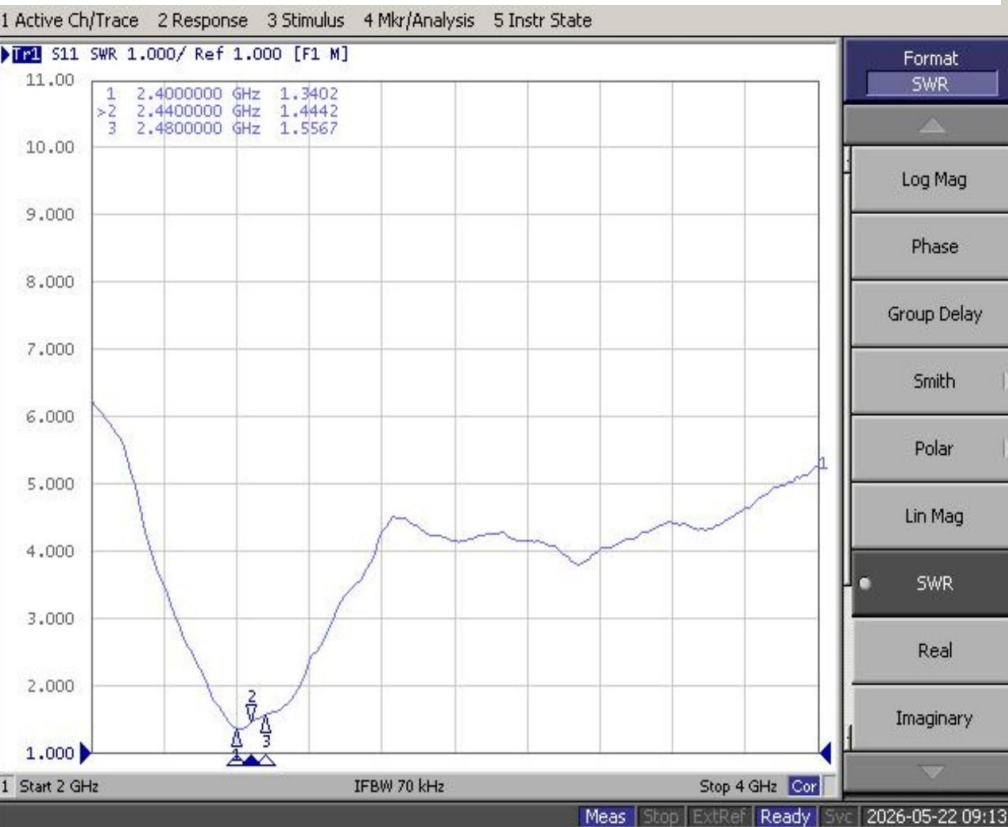
Frequency Range : 300 kHz - 8.5GHz



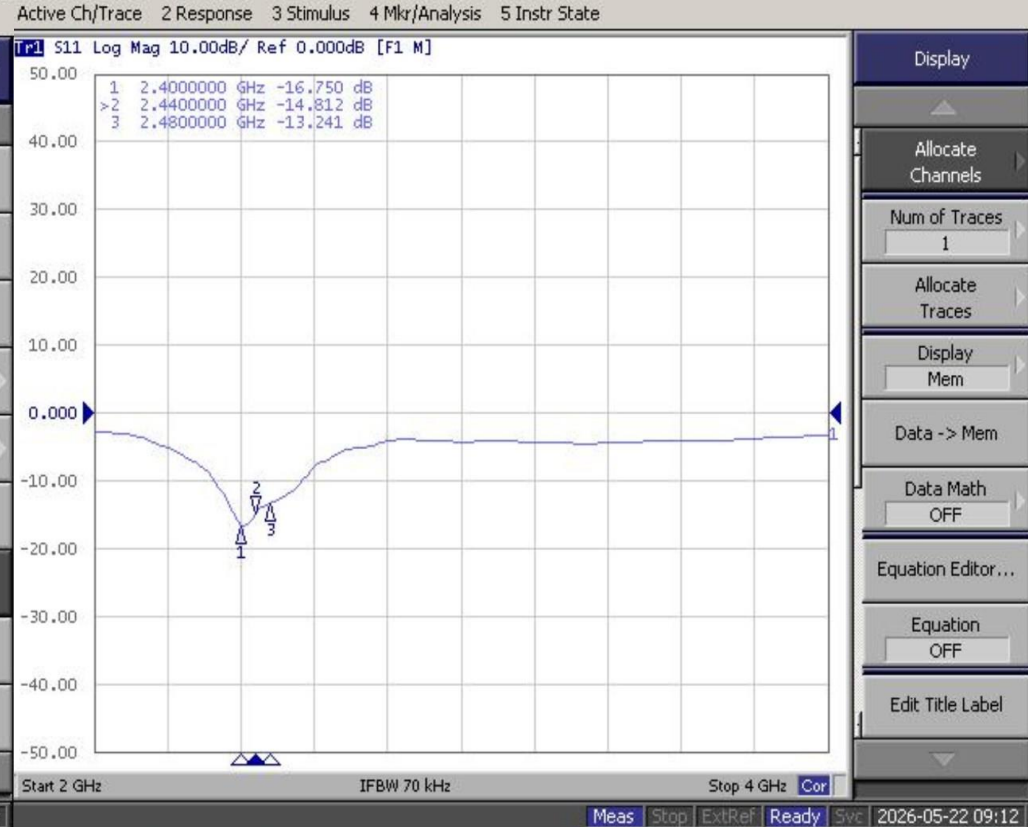
Agilent E5071C Vector network analyzer R&S CMW500
Broadband wireless communication tester

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

Antenna SWR



Antenna Return loss

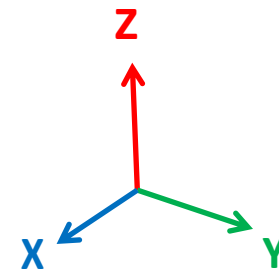
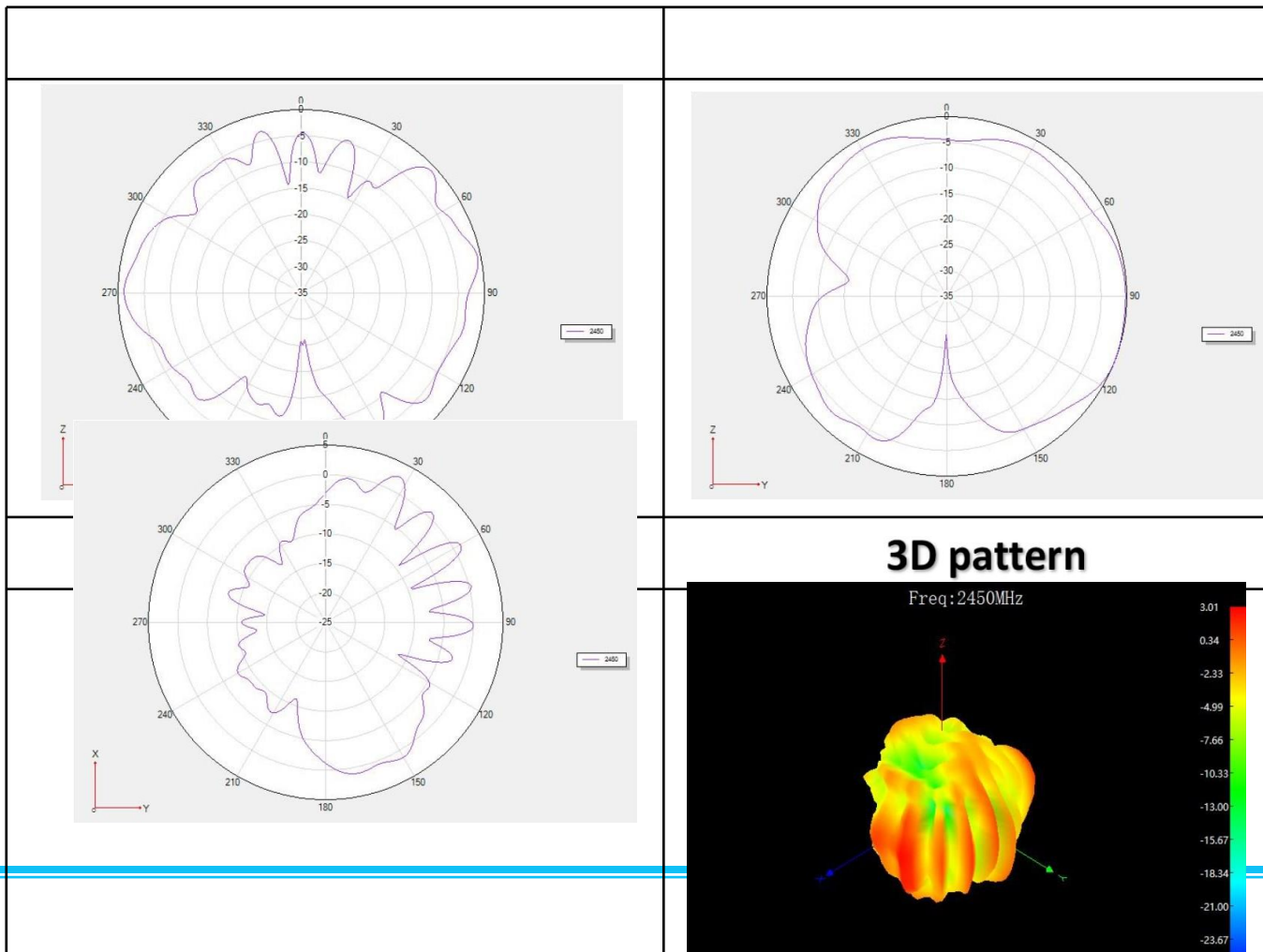


Antenna gain and efficiency

Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	39.36	2.15
2410	40.09	2.27
2420	40.64	2.36
2430	41.78	2.57
2440	43.45	2.73
2450	42.76	3.01
2460	41.59	2.77
2470	41.21	2.77
2480	39.63	2.88
2490	37.93	2.91
2500	37.15	3.15

Antenna Radiation Pattern

Phi 0 2D



OTA Active data

OTA Active data			
(mode)	(channel)	TRP	TIS
Bluetooth	L(0)	6.95	-88.4
	M(39)	6.6	-89.49
	H(78)	5.18	-90.69

Antenna dimensions

