
Antenna Specifications

Model No. HS5100S-Surround

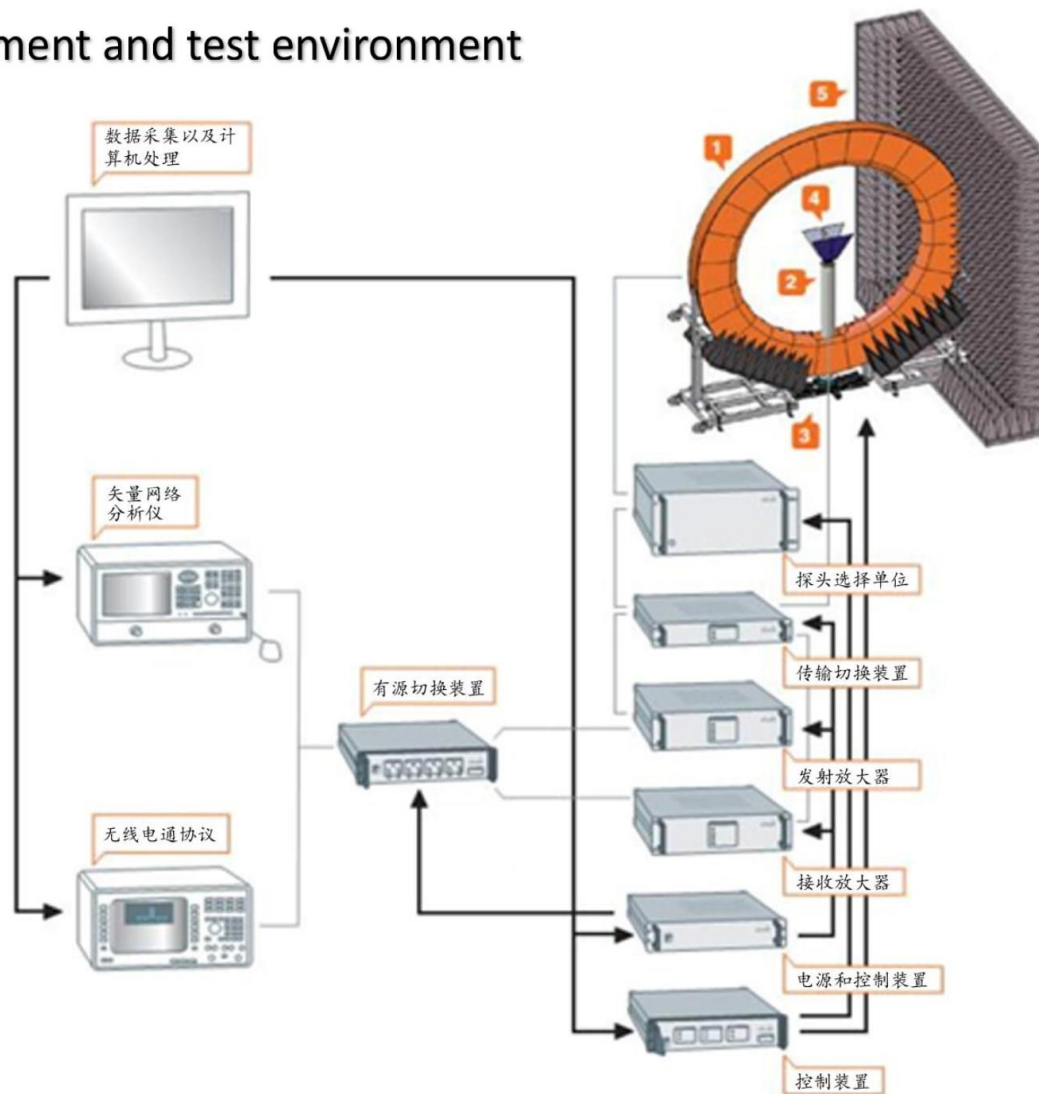
Manufacture Name: Eastech (Huizhou) Co., Ltd

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

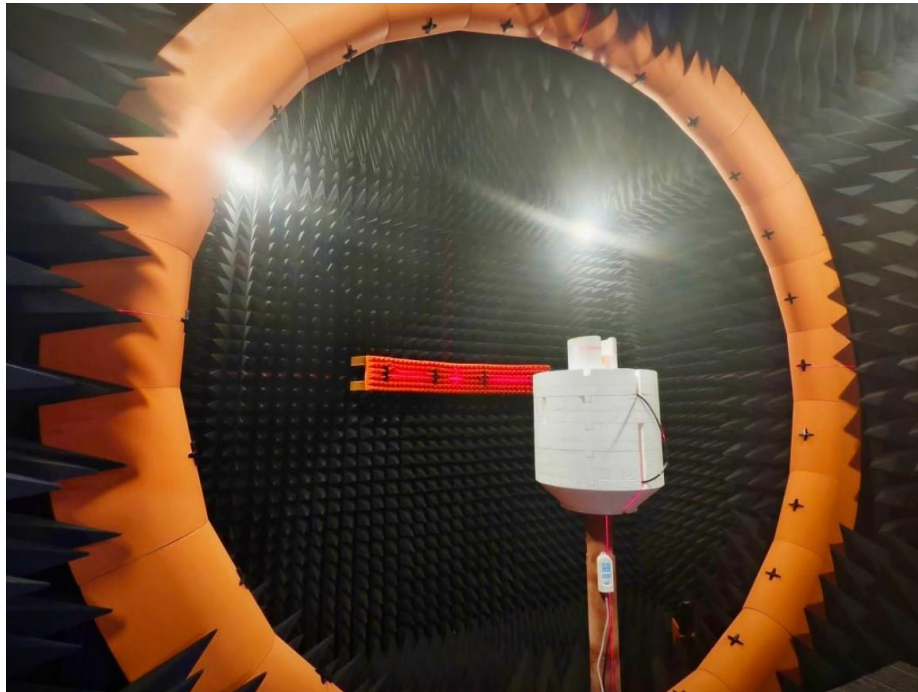
Tested BY: Xingxi Xia

Test data: 2026-5-22

Test equipment and test environment



Test equipment



Probe microwave anechoic chamber

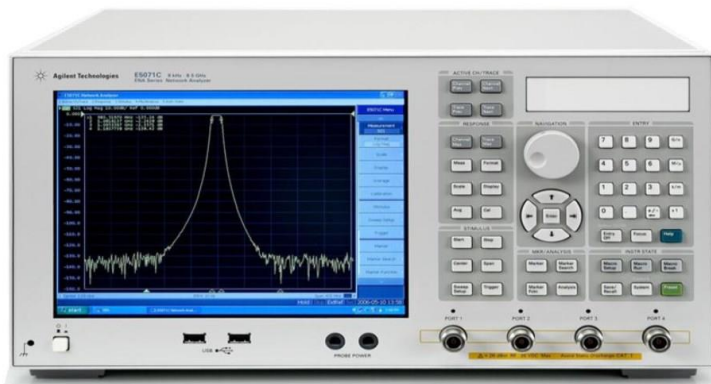


Frequency Range : 0.4GHz-12GHz

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

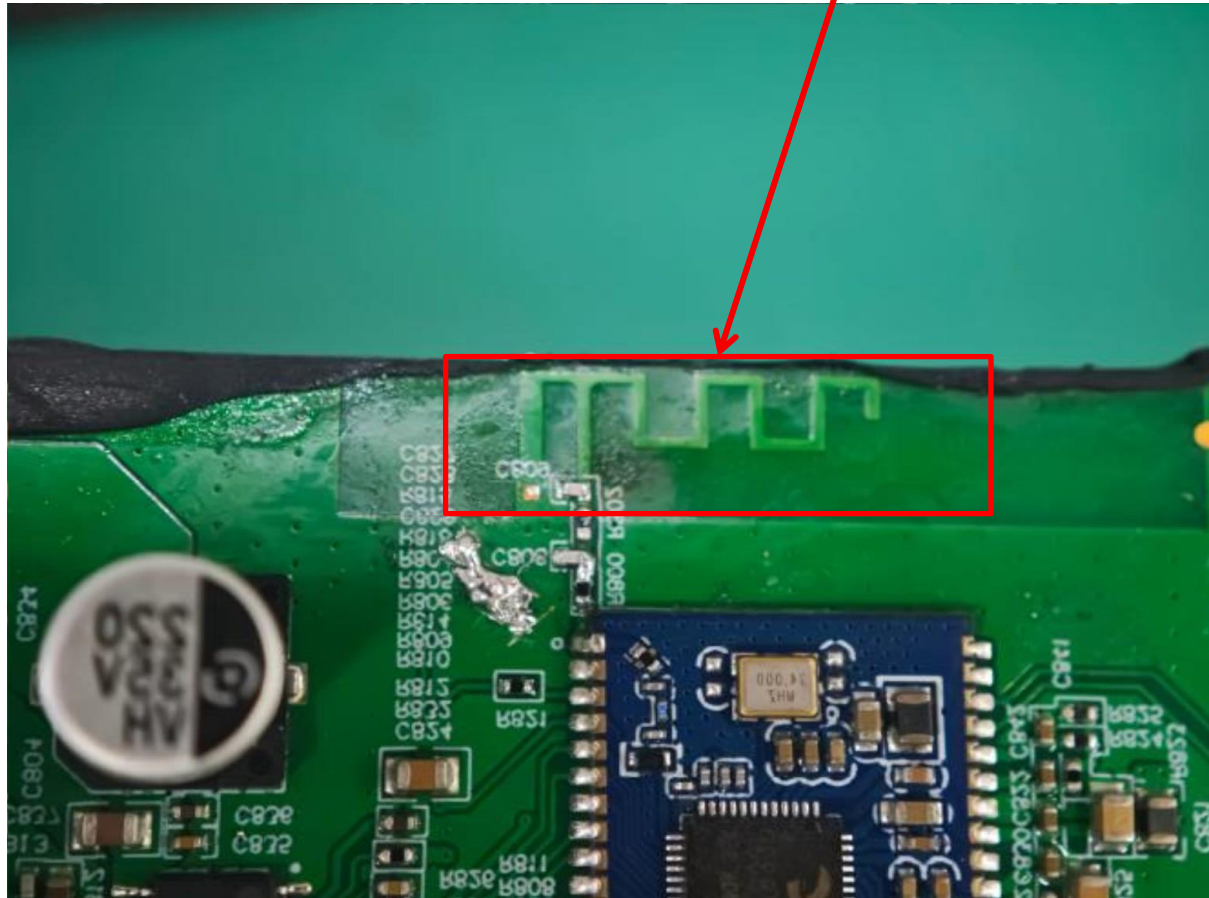


R&S CMW500 Broadband wireless communication tester

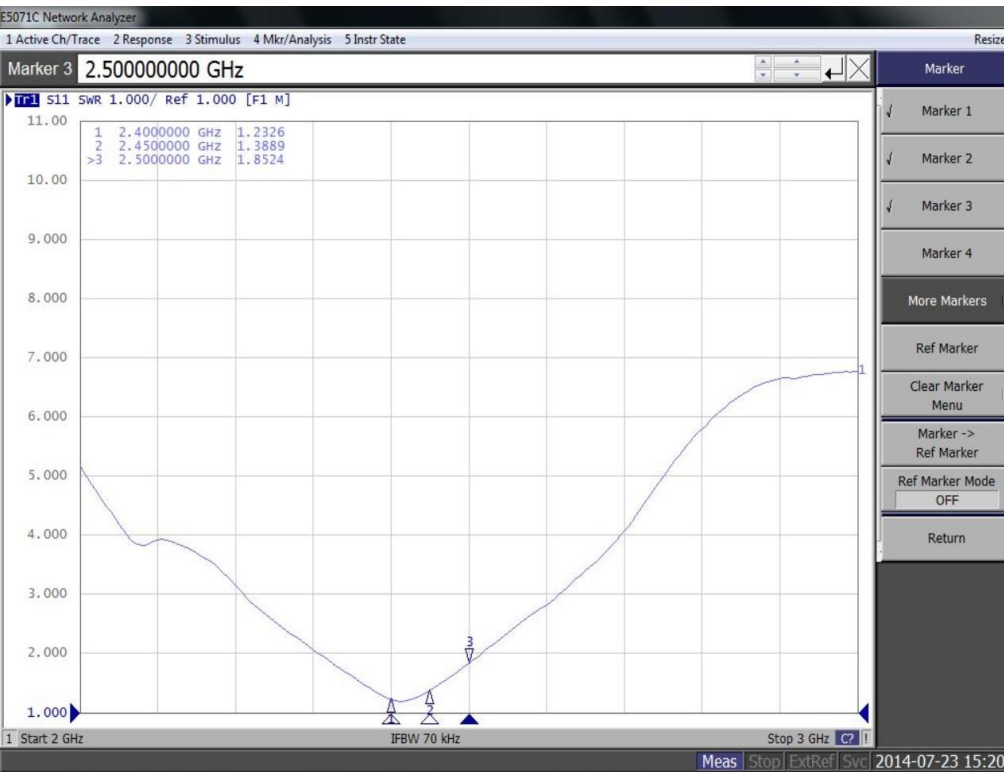
- GSM/3G/4G/e-MTC
- WIFI/ Bluetooth
- NB-IoT

Passive antenna data

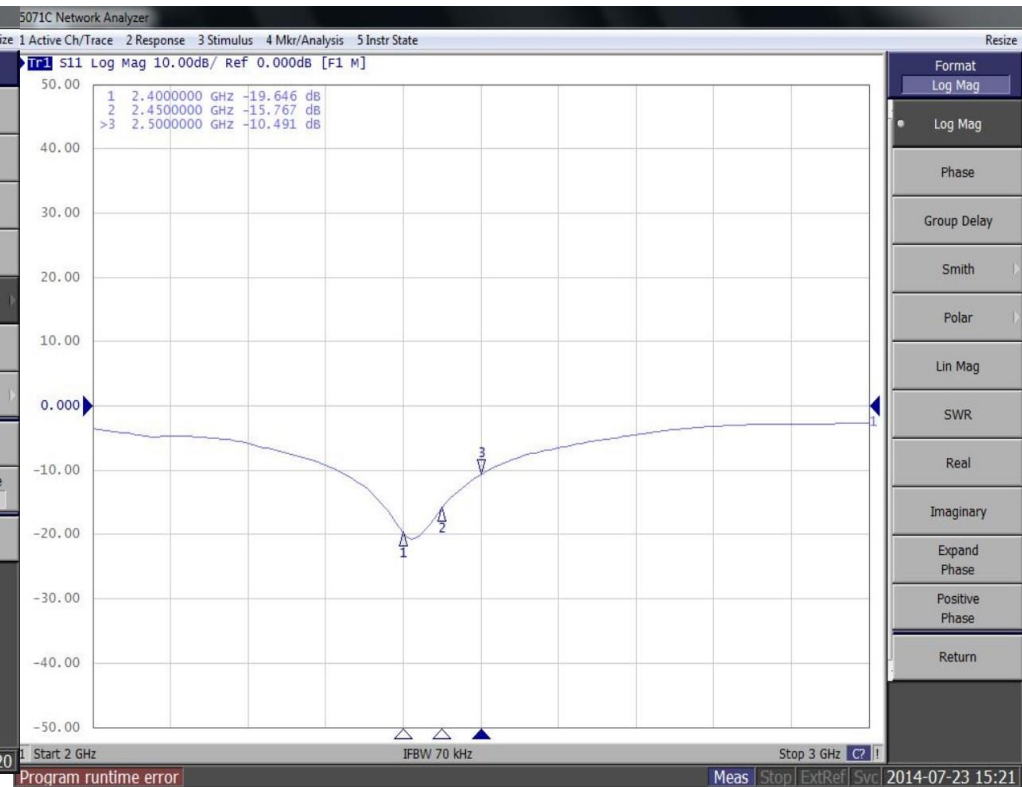
Antenna location and method



Antenna SWR



Antenna Return loss

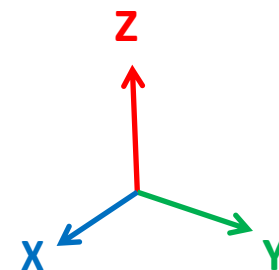
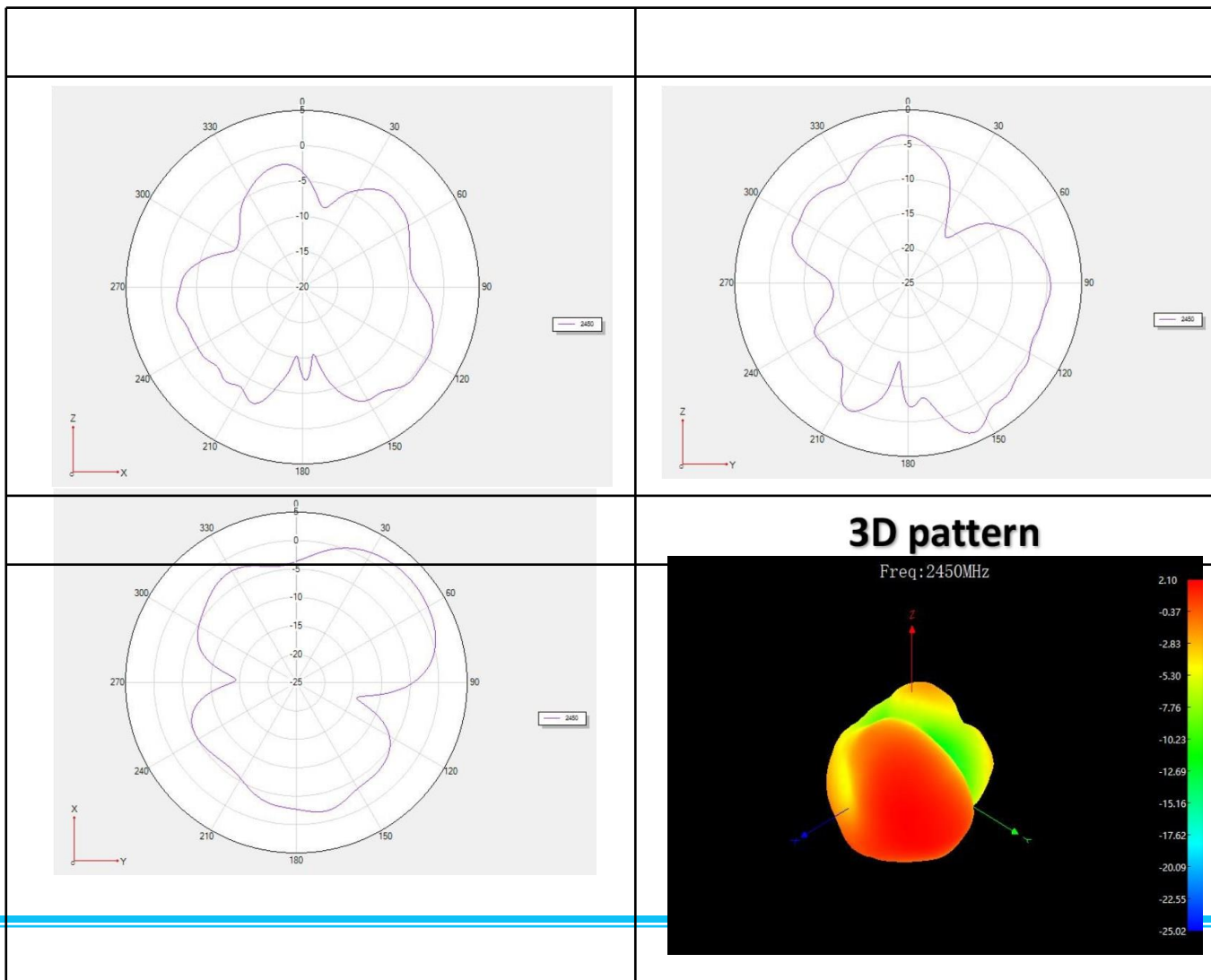


Antenna gain and efficiency

Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	53.33	1.12
2410	53.83	1.02
2420	53.58	1.26
2430	55.59	1.92
2440	56.89	2.33
2450	54.83	2.1
2460	51.52	1.61
2470	50.47	1.37
2480	47.64	0.97
2490	44.87	0.83
2500	43.45	0.96

Antenna Radiation Pattern

Phi 0 2D



OTA Active data

OTAActive data			
(mode)	(channel)	TRP	TIS
Bluetooth	L(0)	8.14	-92.34
	M(39)	8.06	-92.63
	H(78)	6.18	-92.01

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Antenna dimensions

