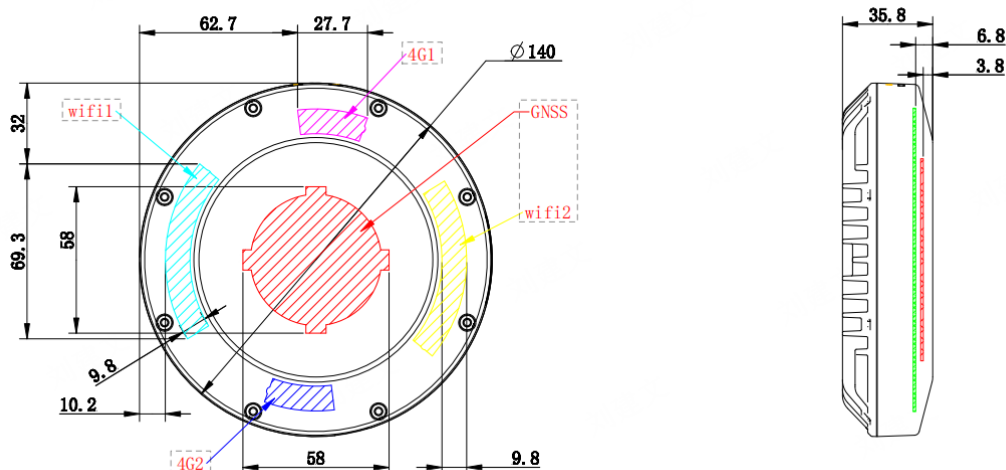


1, Antenna Type and Size 天线类型及天线尺寸

Antenna Type: PCB

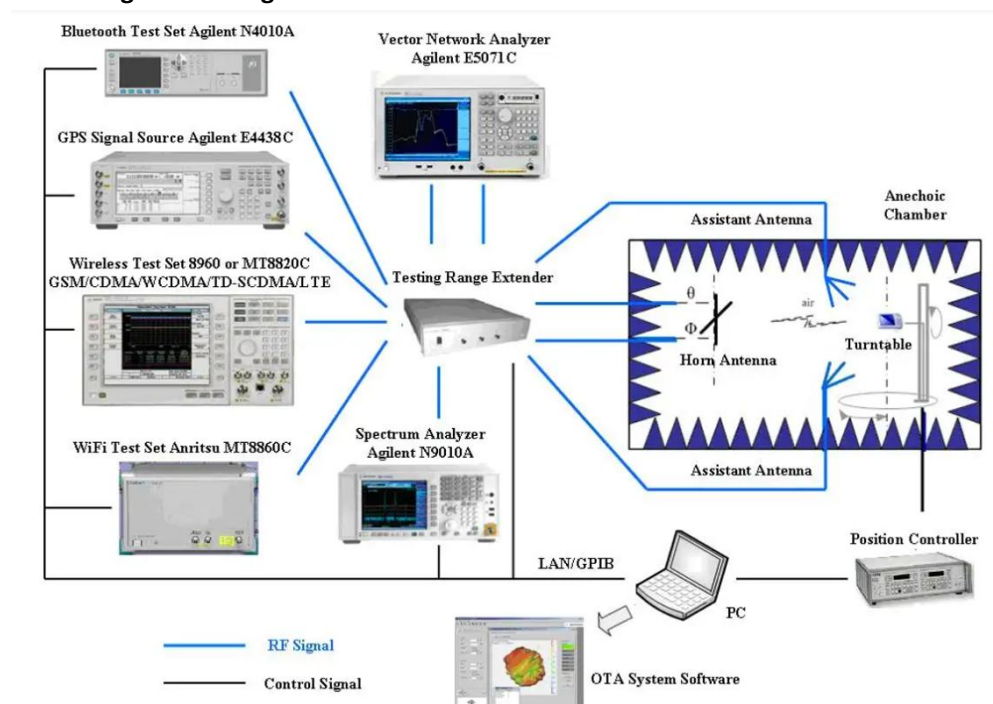
Size



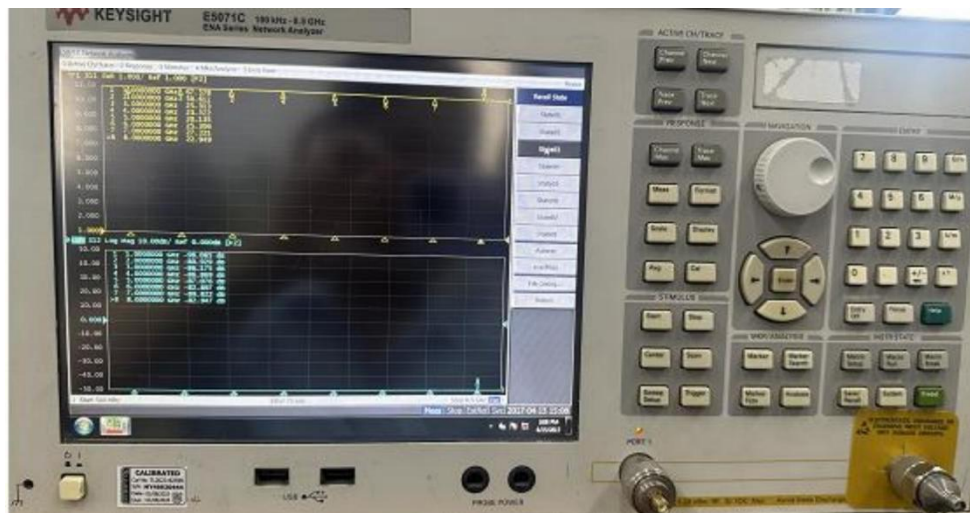
2, Testing Methods and Testing Standards

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-2011

Test configuration diagram:



testing software : Keysight PathWave VNA A.19.55.14



3, Instrument List and Calibration Date

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	XAG20200510	2025.9.11	2026.9.10

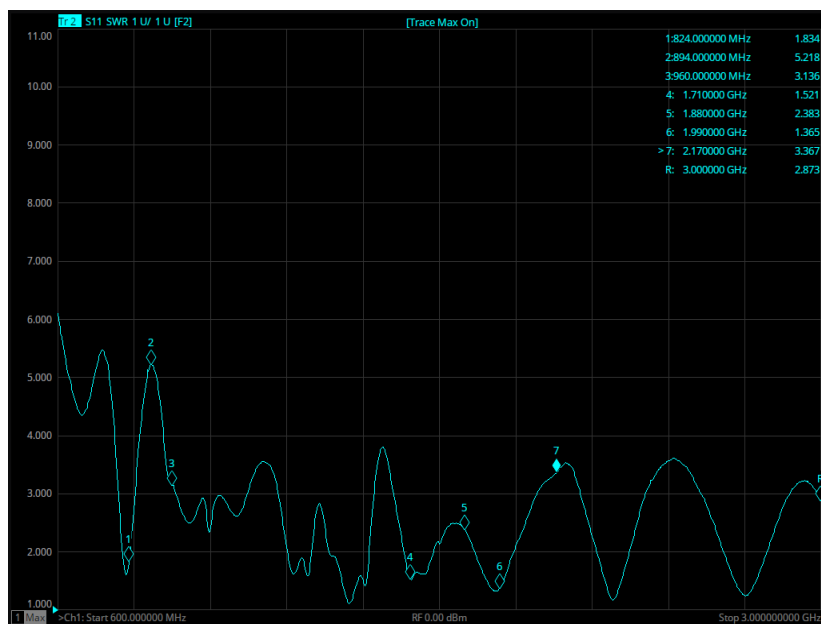
4, Test Subject and Time Information

Drawer	Checker	Approver	Test data	Testing Company
Cai huiping	Wu Yi	Deng Haibo	2025.3.15	Haiheng Technology, Inc

Testing Company Address: Room209, 2F, No.51 Jinghai East Rd, Shatou South District, Changan Town, Dongguan City, Guangdong, China

1. LTE Antenna

1.1 VSWR



1.2 Radiation pattern and Test data

Frequency ID	1	2	3	4	5	6	7	8	9	10
Frequency(MHz)	820	900	960	1720	1740	1820	1880	1940	2020	2180
Gain(dBi)	-4.25	-11.05	-12.11	-1.31	-1.07	-1.54	-1.47	-1.19	-1.53	-1.61
Efficiency(%)	18.24	3.42	2.73	27.48	26.06	28.05	26.18	26.12	21.38	14.83

Frequency(MHz)	3D Pattern	Vertical Pattern	Horizontal Pattern
820			
900			
960			
1720			

