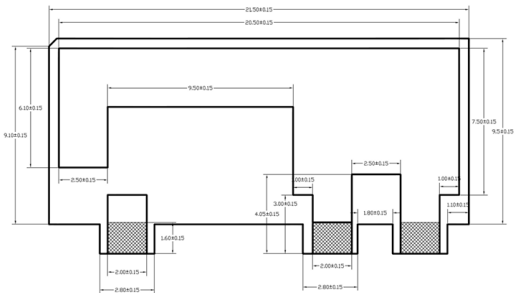


Antenna Specification

Antenna picture	
Antenna Type	Internal inverted F PCB antenna
Antenna Peak Gain	0.52 dBi @ 2.4G
Operating Band	2400 MHz ~ 2500 MHz
Test laboratory name and Address	IoT Antenna Test Laboratory, 3 / A,LEEDARSON LIGHTING CO., LTD. Xingtai Industrial Park, Changtai Economic Development Zone, Zhangzhou, 363900, China
Antenna Manufacturer	LEEDARSON LIGHTING CO., LTD.
Model name	A667-B
DUT photo	N/A
Test Date	2026-04-10
Test Conductor	Shangqing Wei

OTA measurement

Test System

The SY-16 OTA system and RayZone2800 OTA system are anechoic chambers, which can measure antenna passive data such as antenna efficiency, antenna gain, and 2D&3D pattern. The systems are shown as follows:



Figure 1 SY-16 OTA system

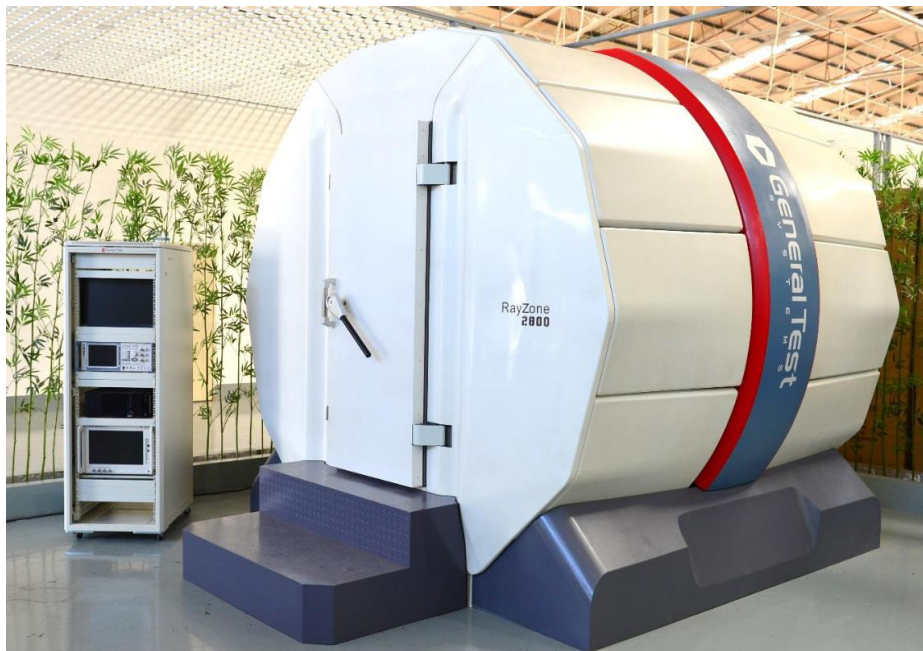


Figure 2 RayZone2800 OTA system

Equipment List

Table 1 Equipment List

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
☒	Network Analyzer	Keysight	E5071C	MY46527808	2026/1/9	2027/1/8
☐	Network Analyzer	Keysight	E5071C	MY46108051	2026/4/19	2027/4/18
☒	Anechoic Chamber	Sunyield	SY-16	SI1727	2026/4/28	2027/4/27
☐	Anechoic Chamber	General Test System	RayZone2800	CT10121244 B5079	2026/5/10	2027/5/9

Test Method

Table 2 Test Method

Name	Antenna Performance			
Parameter	Radiation Efficiency			
Test Method	IEEE Standard Test Procedures for Antennas			
Standard No.	ANSI/IEEE Std 149-2021			
Test Software	PMS-V2.8.5	☒	MaxSign-V1.4.3	☐

Test Result

Efficiency and Gain

Table 3 Antenna Efficiency and Gain

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	0.45	-4.18	38.2
2410	0.52	-4.24	37.71
2420	0.33	-4.3	37.18
2430	0.34	-3.95	40.28
2440	0.37	-3.95	40.29
2450	0.12	-4	39.81
2460	-0.02	-4.16	38.34
2470	-0.28	-4.03	39.49
2480	-0.35	-4.26	37.53
2490	-0.4	-4.55	35.1
2500	-0.55	-4.75	33.5

Radiation Pattern

Table 4 Product coordinates

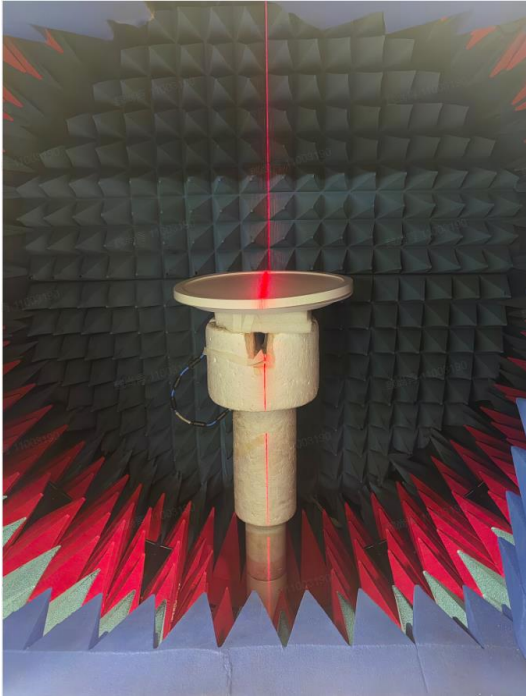
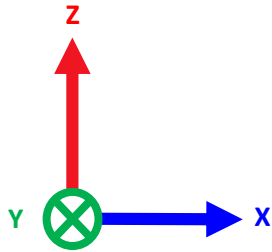
Product Coordinates	
	

Table 5 3D radiation pattern @ 2450 MHz

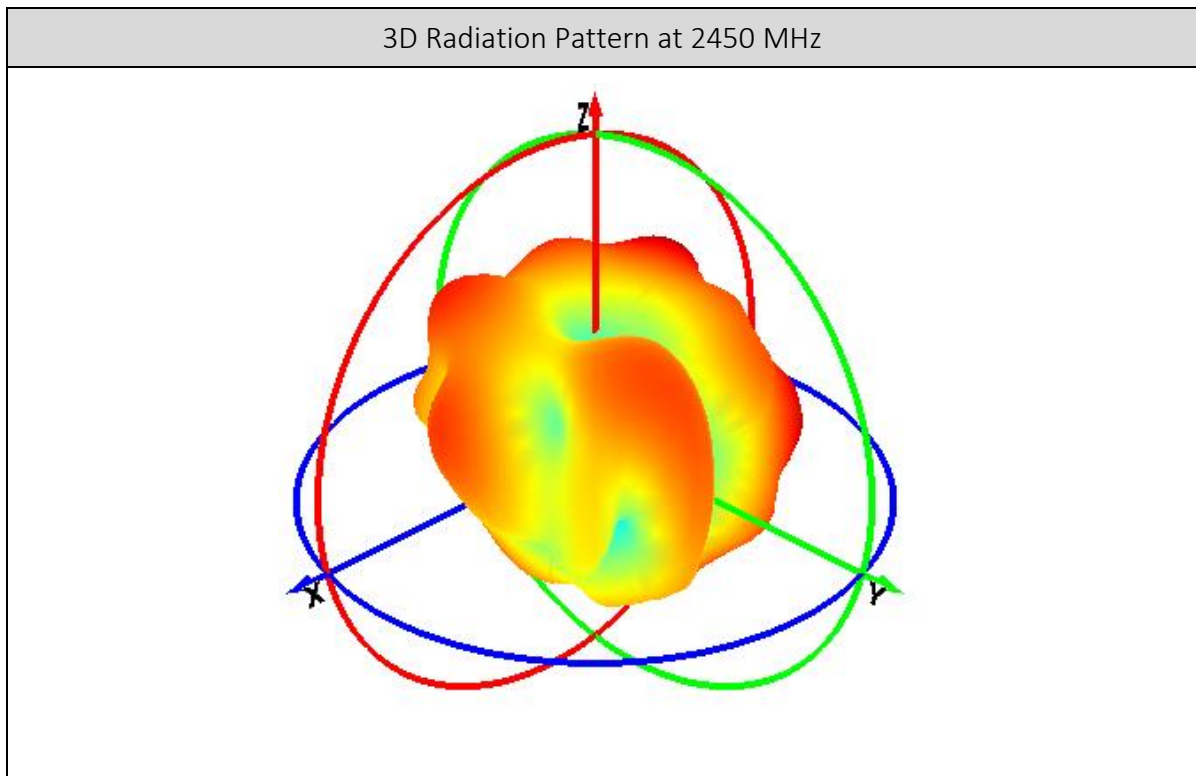


Table 6 Radiation pattern in XY Plane

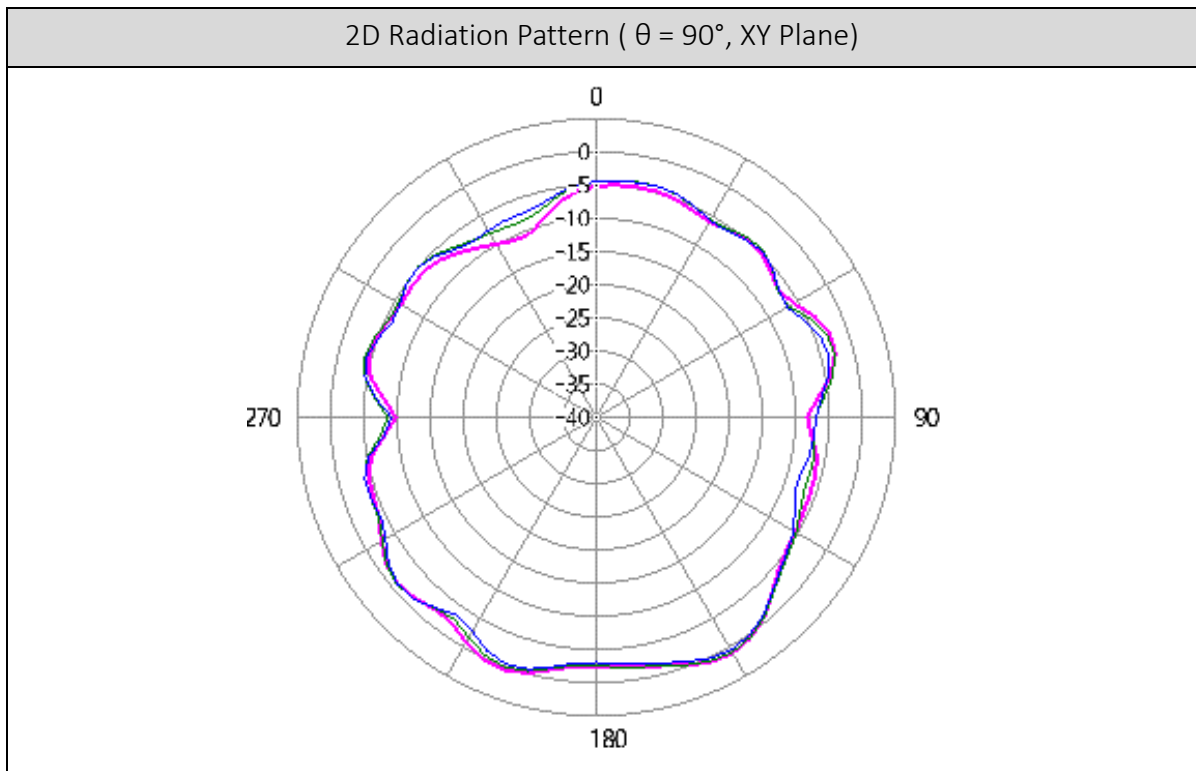


Table 7 Radiation pattern in XZ Plane

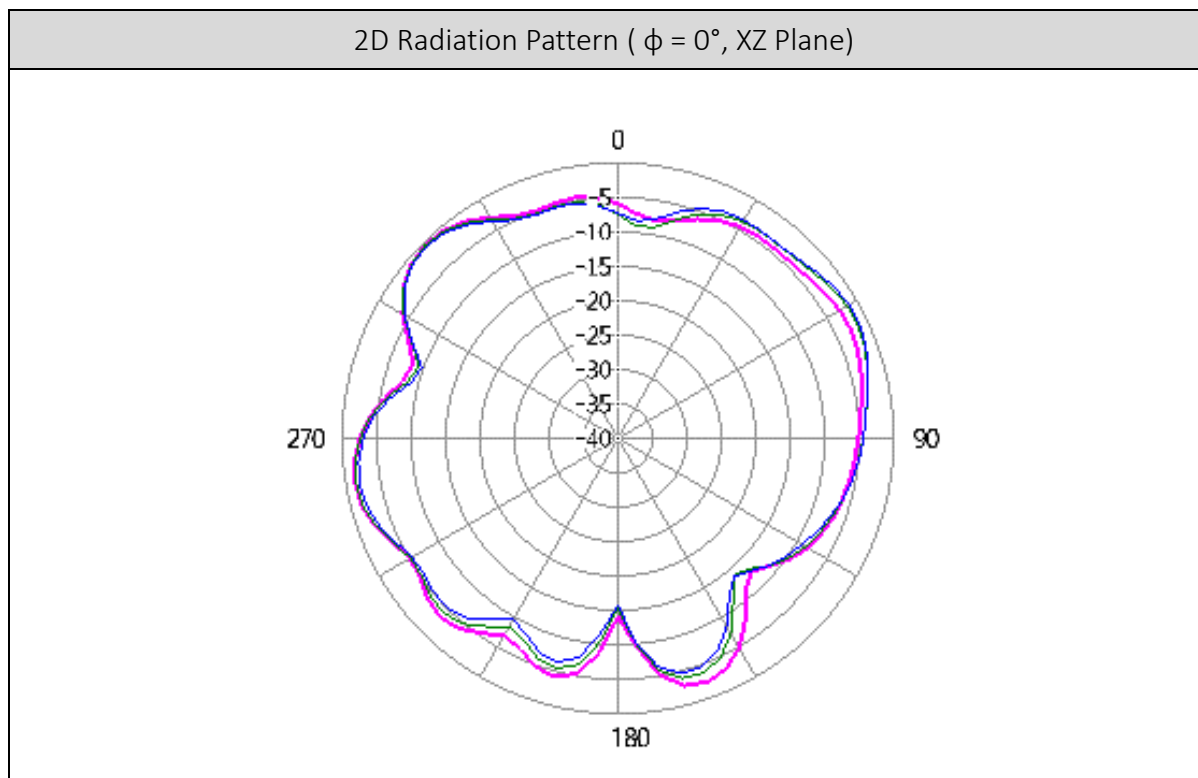


Table 8 Radiation pattern in YZ Plane

