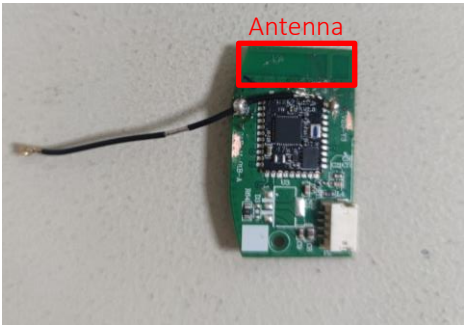


Antenna Specification

Antenna Picture	
Antenna Type	PCB Antenna
Antenna Peak Gain	2.6dBi
Operating Band	2400 MHz ~ 2483.5 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	P100mini Pro
DUT photo	
Report Date	2024-01-23

OTA measurement

Test System

The SY-16 OTA system is an anechoic chamber, which can measure antenna passive data such as antenna efficiency, antenna gain, and 2D&3D pattern. The coordinates and topology are shown as follows:

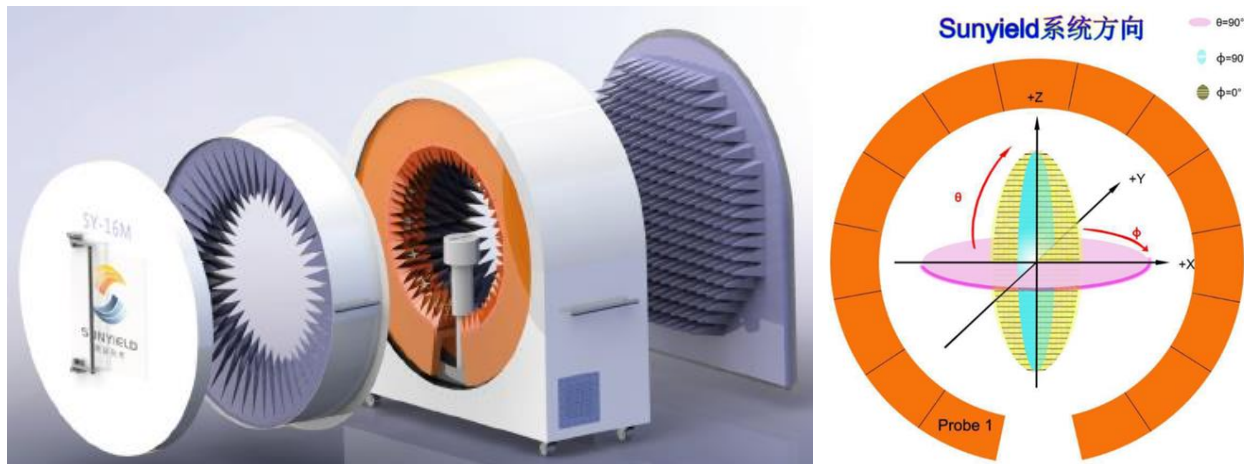


Figure 1 SY-16 OTA system

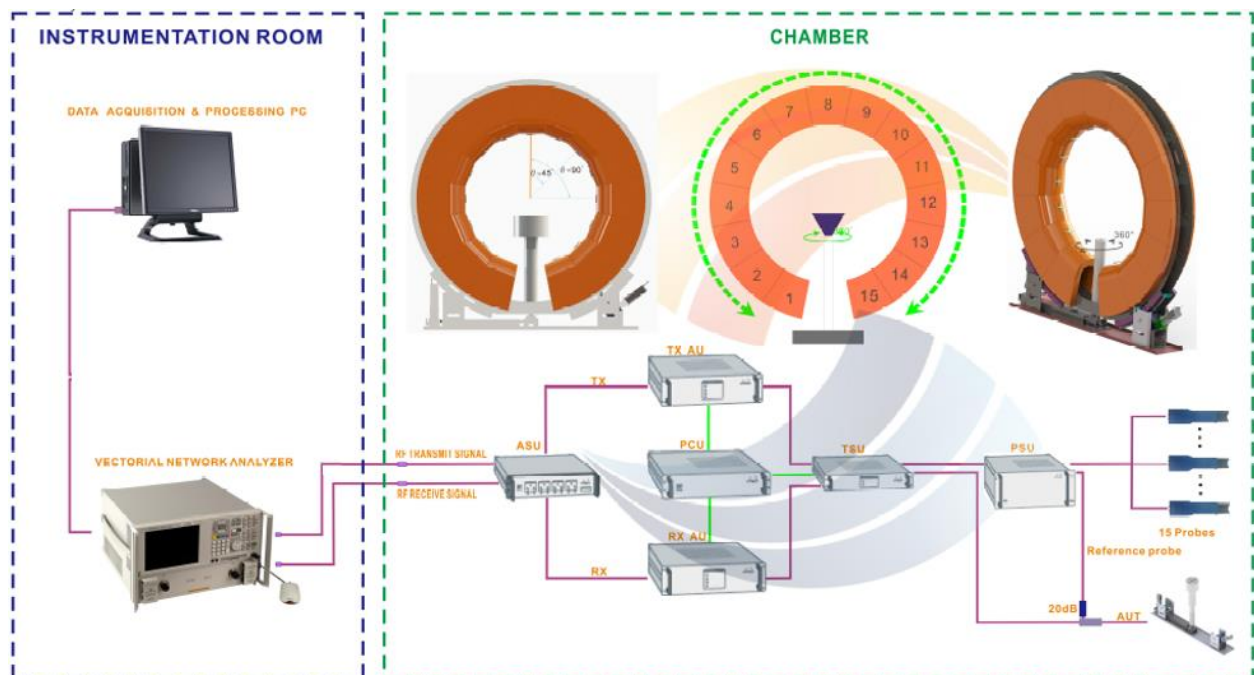


Figure 2 OTA measurement topology

Test Information

Test Conductor(s)	Xiu Weisong
Antenna Performance	Radiation Efficiency
Test Method	IEEE Standard Test Procedures for Antennas
Standard No.	ANSI/IEEE Std 149-2021
Test Software Being Used	PMS
Software Version	V2.8.5

Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Keysight	E5071C	MY46527808	2024/1/9	2025/1/8
Anechoic Chamber	Sunyield	SY-16	SI1727	2023/5/10	2024/5/9

Test Result

Efficiency and Gain

Table 1 Antenna Efficiency and Gain

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.65	-2.50	56.23
2410	1.66	-2.54	55.70
2420	1.72	-2.49	56.39
2430	1.82	-2.37	57.97
2440	2.06	-2.18	60.50
2450	2.30	-2.04	62.55
2460	2.33	-2.04	62.51
2470	2.39	-2.04	62.51
2480	2.60	-2.03	62.65
2490	2.56	-1.97	63.60
2500	2.59	-1.93	64.15

Radiation Pattern

Table 2 Product coordinates

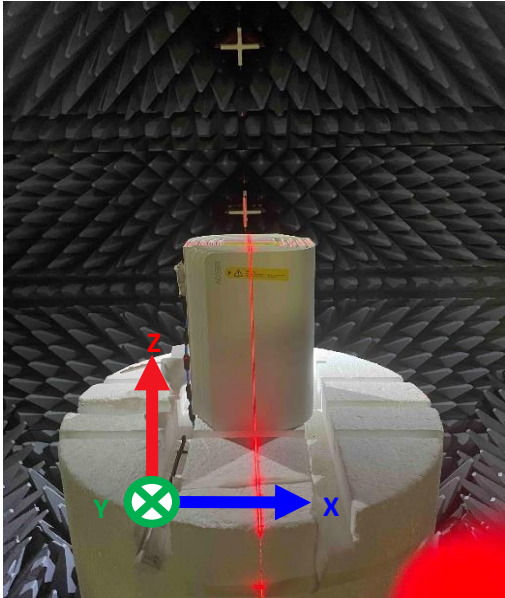
Product Coordinates	
	

Table 3 3D radiation pattern

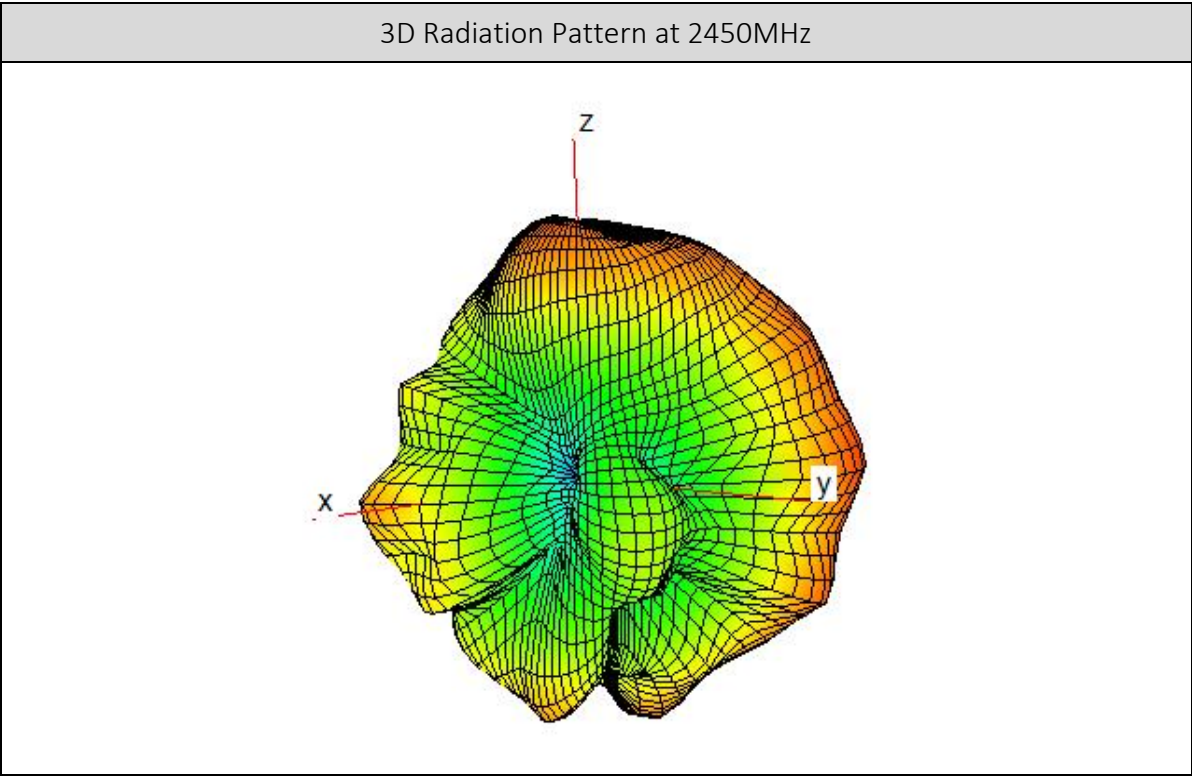


Table 4 Radiation pattern in XY Plane

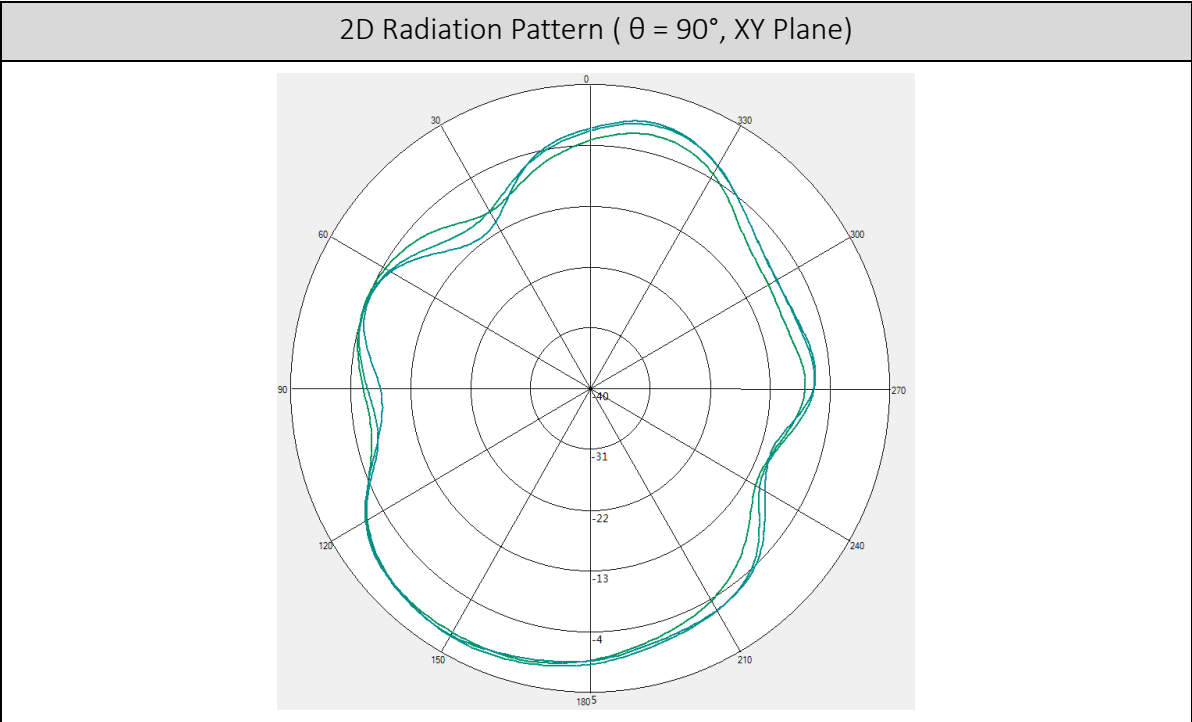


Table 5 Radiation pattern in XZ Plane

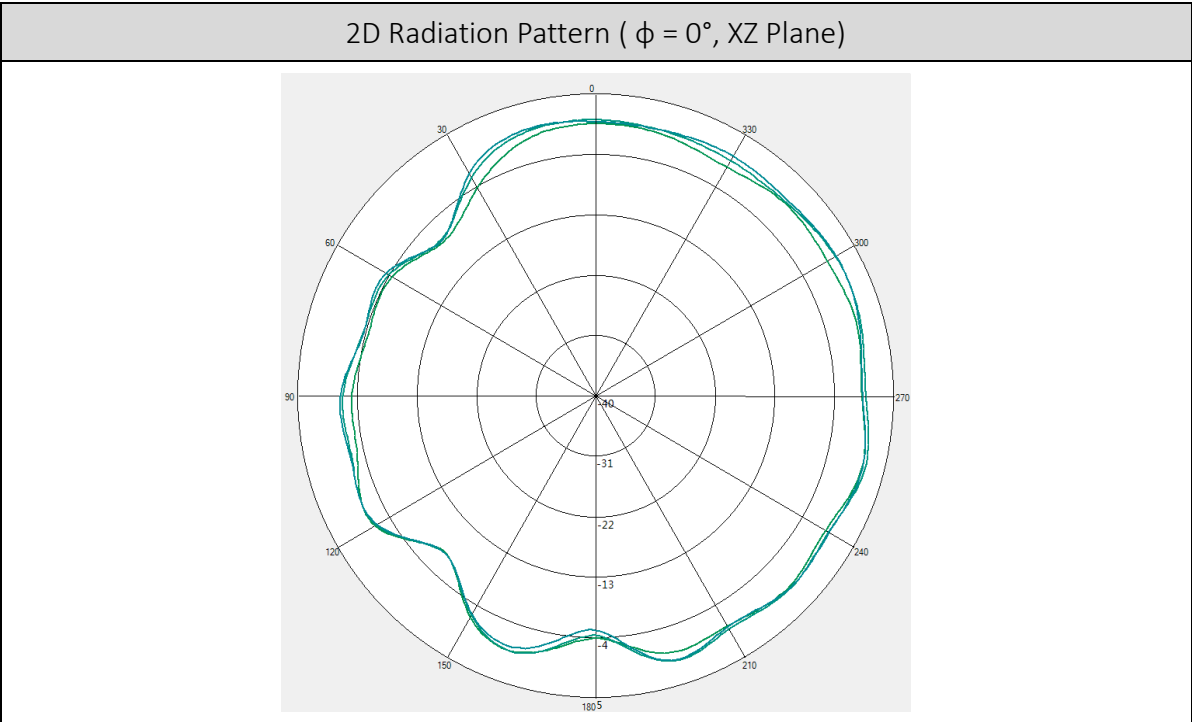


Table 6 Radiation pattern in YZ Plane

