

Antenna Specification

Antenna picture	Please refer to antenna photo text.
Antenna Type	Metal Antenna
Antenna Peak Gain	1.44 dBi
Operating Band	908 MHz ~ 920 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	Slickrock
DUT photo	Please refer to antenna photo text.
Test Date	2025.4.21
Test Conductor	O.Young

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	2025/1/9	2026/1/8
☐	Network Analyzer	Keysight	E5071C	MY46108051	2024/4/19	2025/4/18
☒	Anechoic Chamber	Sunyield	SY-16	SI1727	2024/4/28	2025/4/27
☐	Anechoic Chamber	General Test System	RayZone2800	CT10121244 B5079	2024/5/10	2025/5/9

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 (%)
904	1.21	-2.42	57.28
906	1.30	-2.32	58.58
908	1.44	-2.20	60.19
910	1.26	-2.01	62.97
912	1.34	-1.89	64.69
914	1.31	-1.88	64.83
916	1.15	-2.02	62.81
918	0.98	-2.20	60.30
920	0.89	-2.30	58.95
922	0.94	-2.26	59.45
924	0.96	-2.21	60.10

Radiation Pattern

Table 4 Product coordinates

Product Coordinates
Please refer to antenna photo text.

Table 5 3D radiation pattern

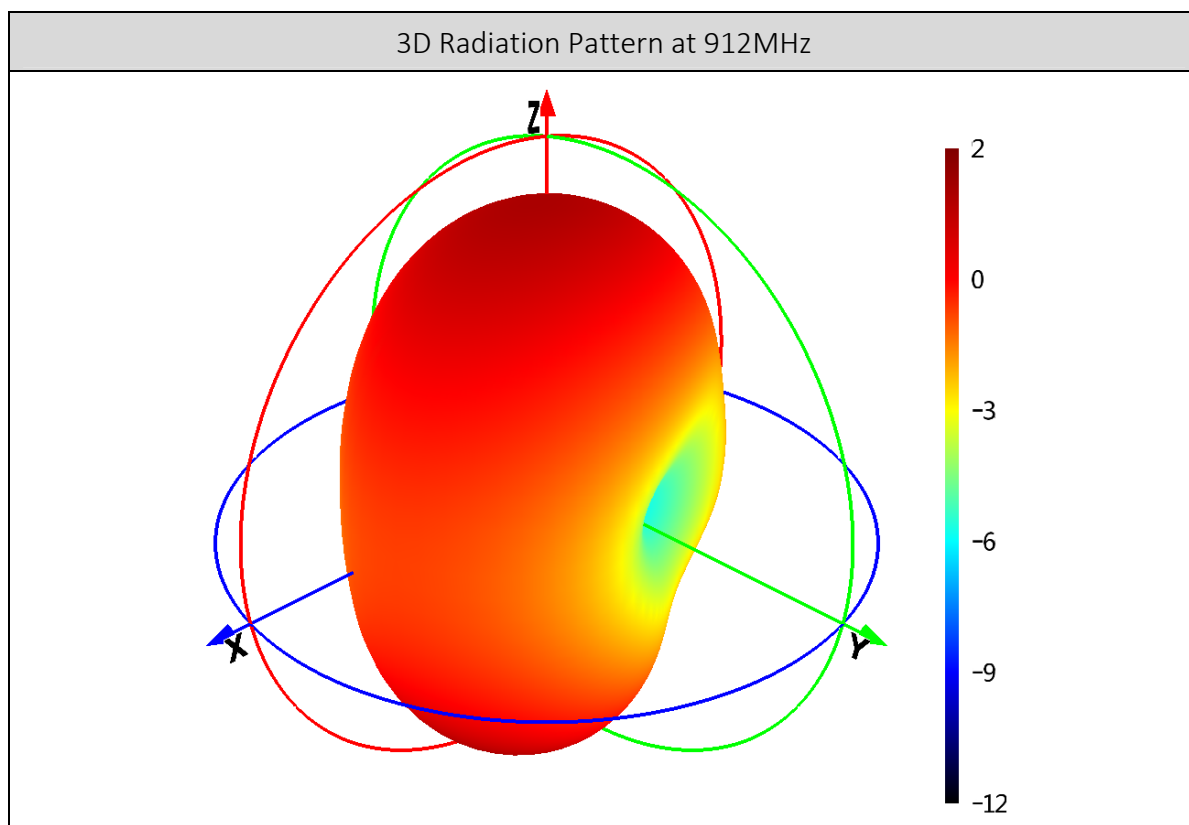


Table 6 Radiation pattern in XY Plane

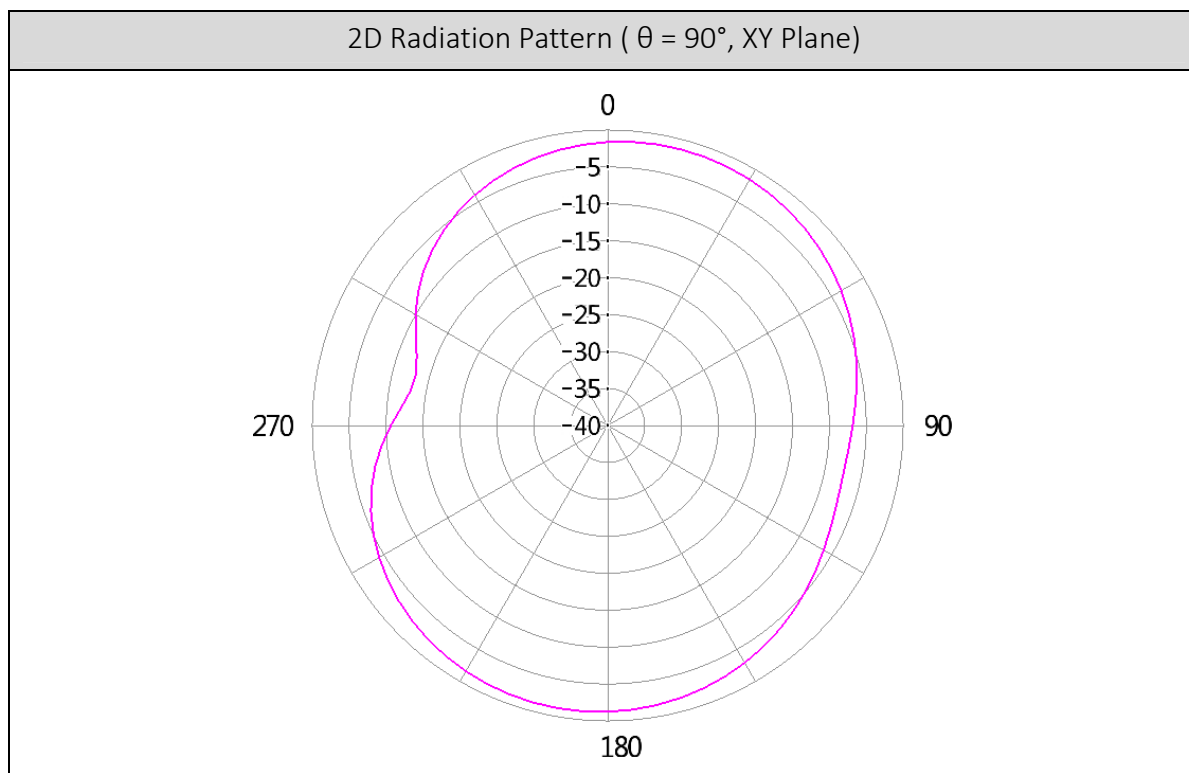


Table 7 Radiation pattern in XZ Plane

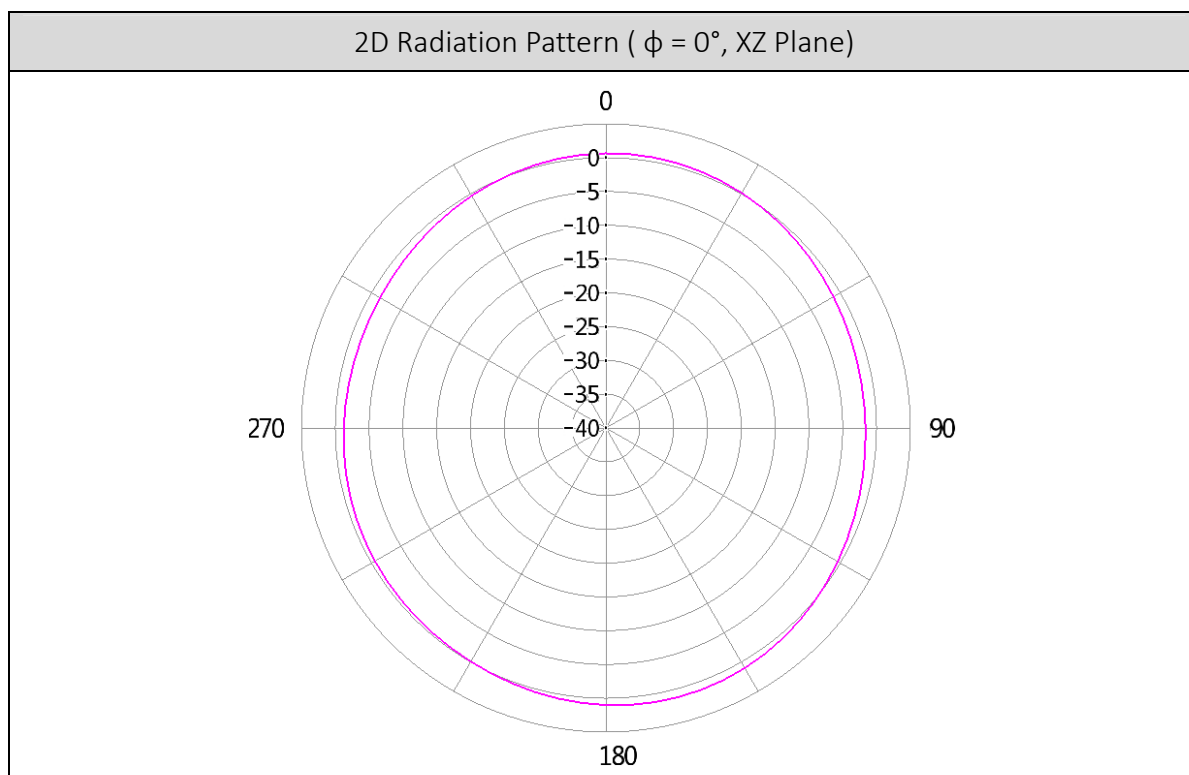


Table 8 Radiation pattern in YZ Plane

