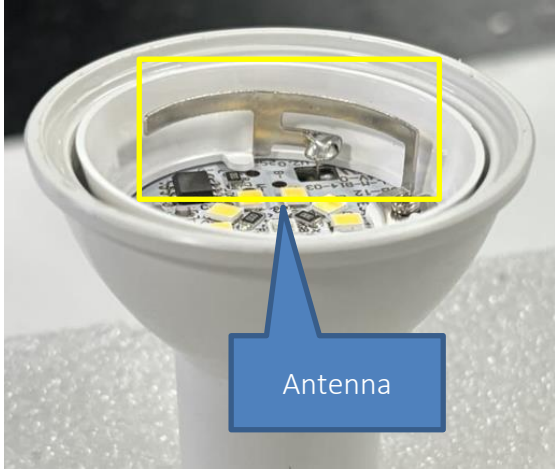


Antenna Specification

Antenna picture	
Antenna Type	Internal Metal Monopole Antenna
Antenna Peak Gain	-0.82 dBi
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	M071 B38 RGBTW 项目
DUT photo	
Test Date	2025-11-03
Test Conductor	Chen Meihua

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

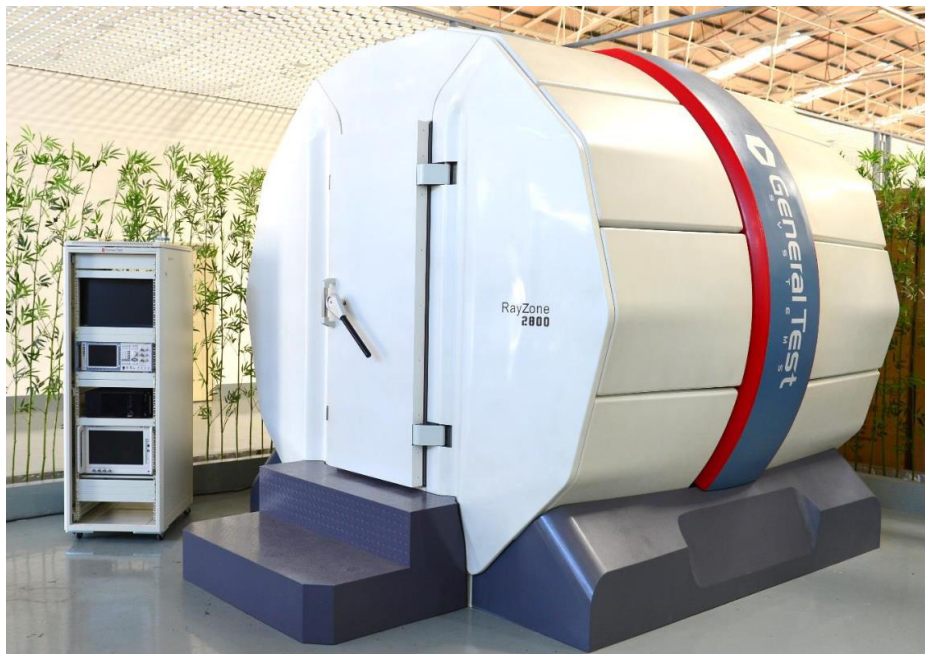


Figure 2 RayZone2800 OTA system

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	2025/4/19	2026/4/18
☒	Anechoic Chamber	Sunyield	SY-16	SI1727	2025/4/28	2026/4/27
☐	Anechoic Chamber	General Test System	RayZone2800	CT10121244 B5079	2025/5/10	2026/5/9

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	-1.66	-8.13	15.37
2410	-1.61	-8.16	15.28
2420	-1.39	-7.93	16.10
2430	-1.39	-7.89	16.27
2440	-1.33	-7.81	16.57
2450	-1.11	-7.73	16.85
2460	-0.95	-7.58	17.46
2470	-1.04	-7.57	17.52
2480	-0.92	-7.46	17.95
2490	-0.84	-7.38	18.27
2500	-0.82	-7.34	18.47

Radiation Pattern

Table 4 Product coordinates

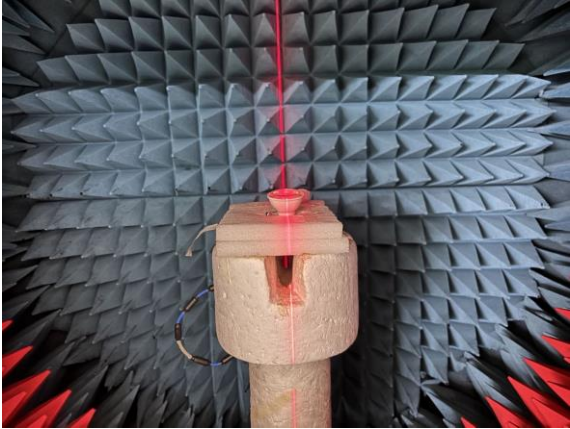
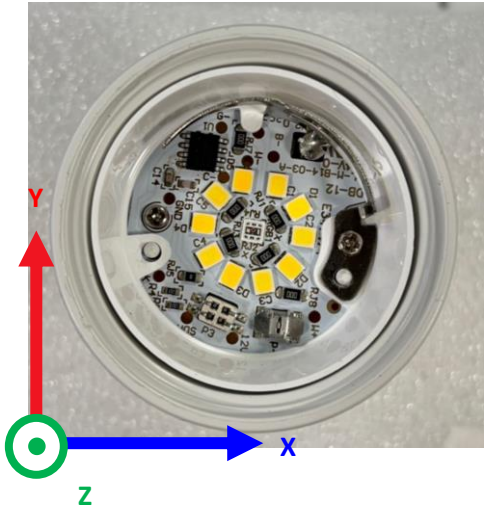
Product Coordinates	
	

Table 5 3D radiation pattern

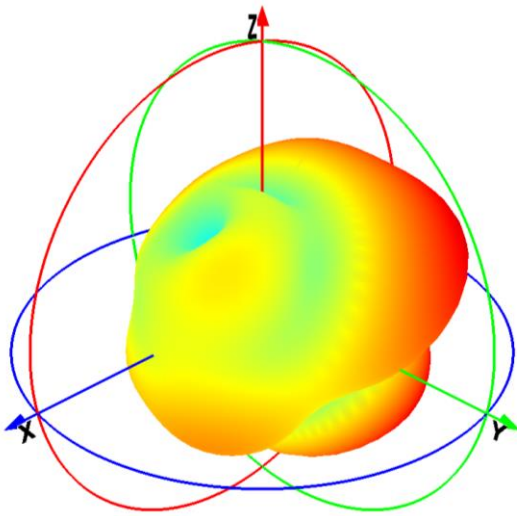
3D Radiation Pattern at 2450MHz


Table 6 Radiation pattern in XY Plane

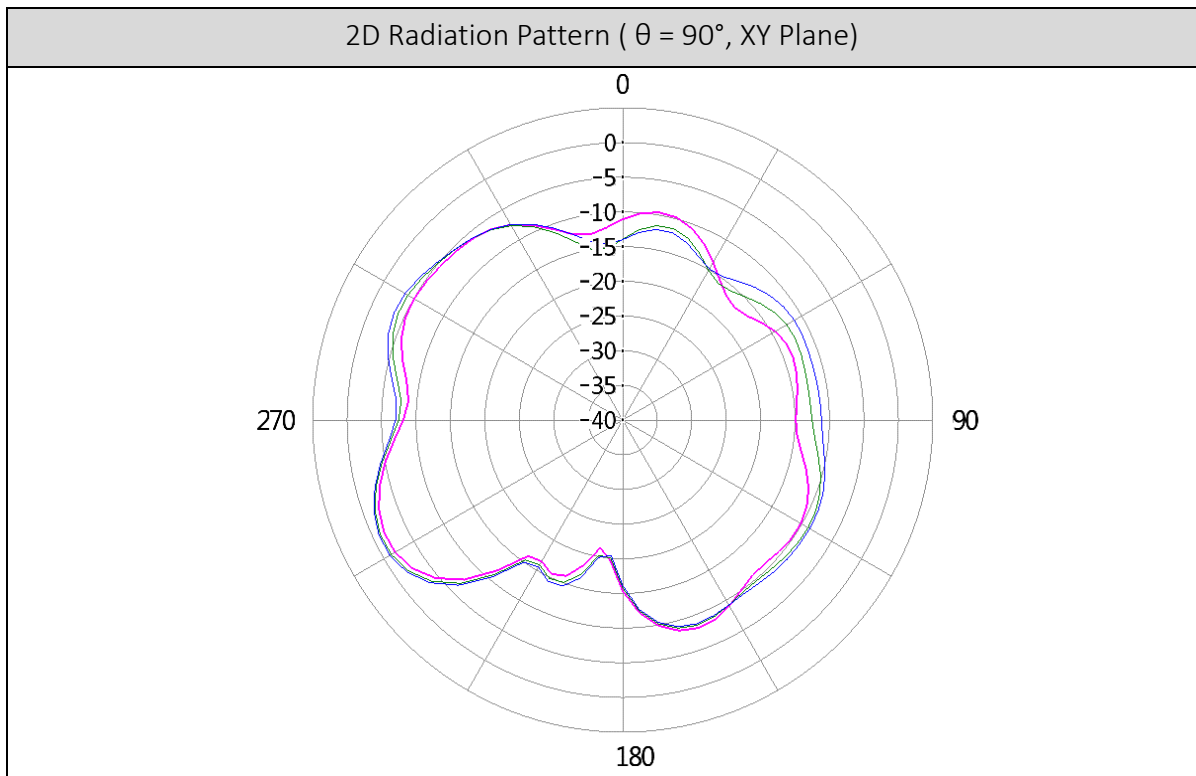


Table 7 Radiation pattern in XZ Plane

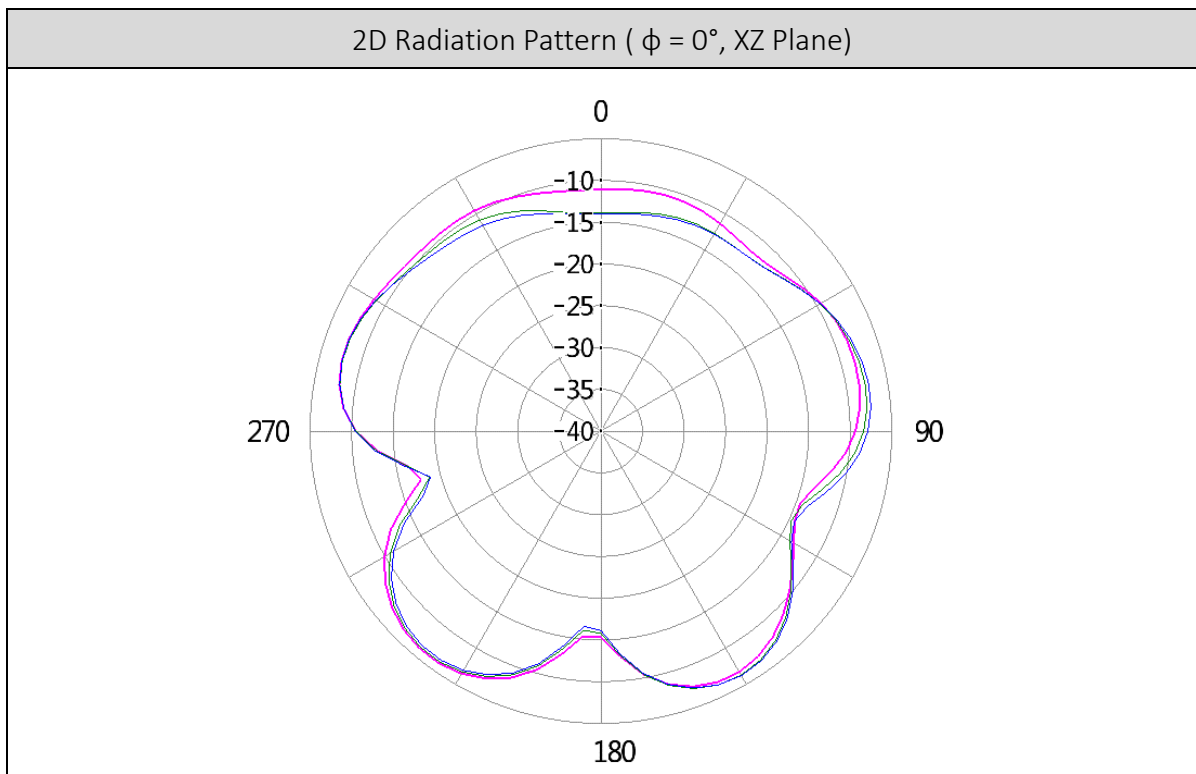
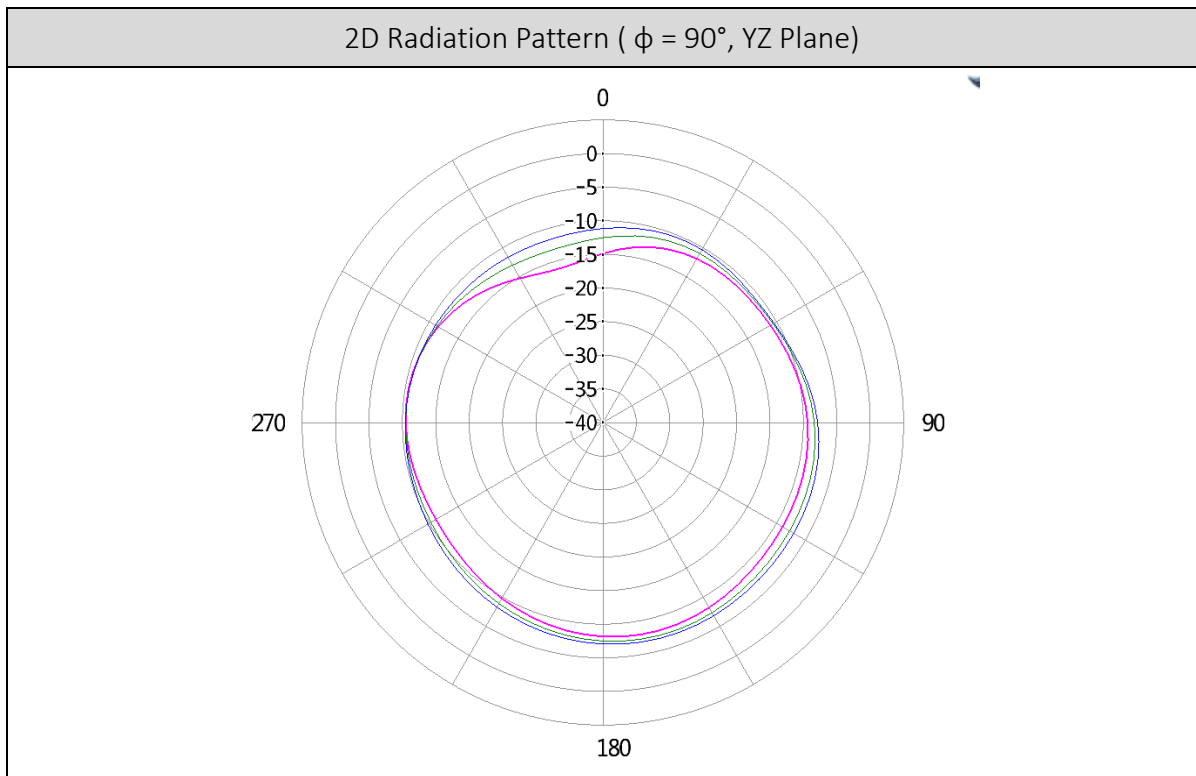


Table 8 Radiation pattern in YZ Plane

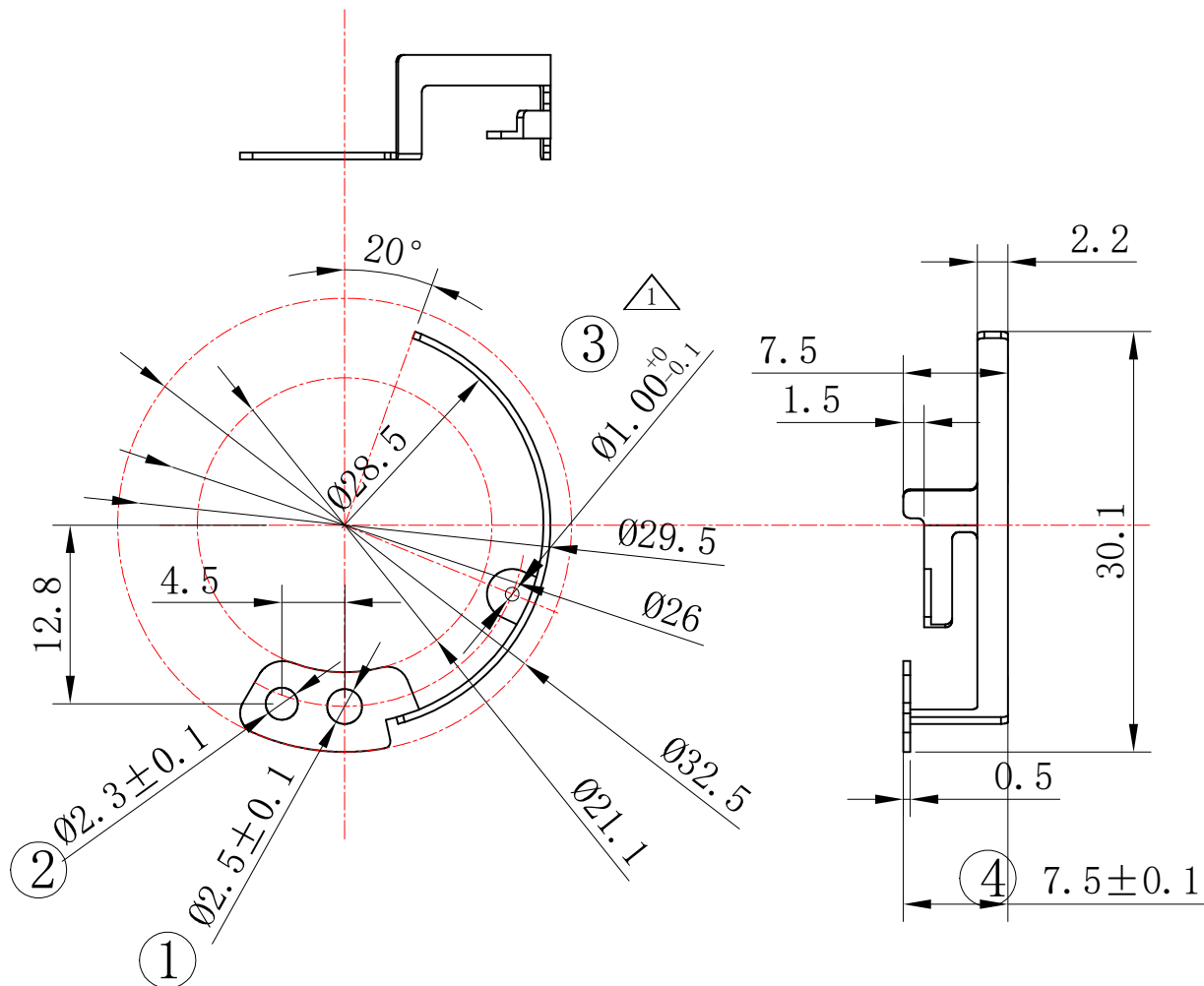


LDZ-3

表一

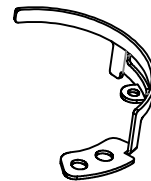
尺寸范围	0.5~6	6~30	30~120	120~300	300~1200
线性公差	±0.1	±0.2	±0.3	±0.4	±0.8

编号	变更理由	日期
1		
2		
3		



技术要求:

- 1、产品成型后不可有断裂、裂纹等不良,具体请参考IQC检验标准。
- 2、曲线按3D图加工,未标注尺寸参考3D及封样件。
- 3、未标注公差请参考表一。
- 4、标注序号的为重要制程管控尺寸,务必加工在公差范围内。
- 5、零件必须经过脱脂清洗去油处理。
- 6、成品不允许有毛刺等不良。
- 7、盐雾要求:中性盐雾48h。
- 8、产品镀可焊镍,需可焊锡。
- 9、产品外形不能有变形,翘曲等缺陷。



制图	杨玲	2022.12.30	涂敷		产品	天线_8ZC-M350ST-W4G-01-P-03A		
设计	杨玲	2022.12.30	材料	304不锈钢镀可焊镍	名称			
审核	林红滨	2022.12.30	单位	mm	ID	2430800013	图号	D1410013496
标准化			比例	2:1				
批准	蒋洪奎	2022.12.30	版本	V2.0				

表单编号: LA-IPD-T001-6B

保存期限: 永久