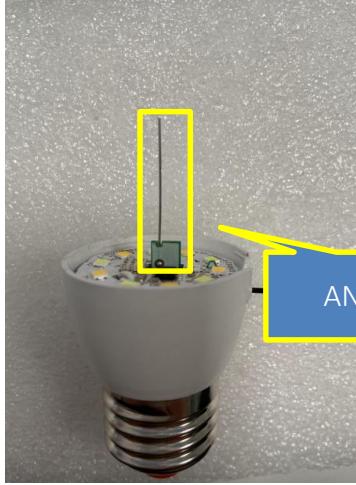


Antenna Information

Antenna picture	
Antenna Type	Internal monopole antenna
Antenna Peak Gain	-0.35dBi
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	13aSA-C806ST-A1G
DUT photo	
Report Date	2023-06-13

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:

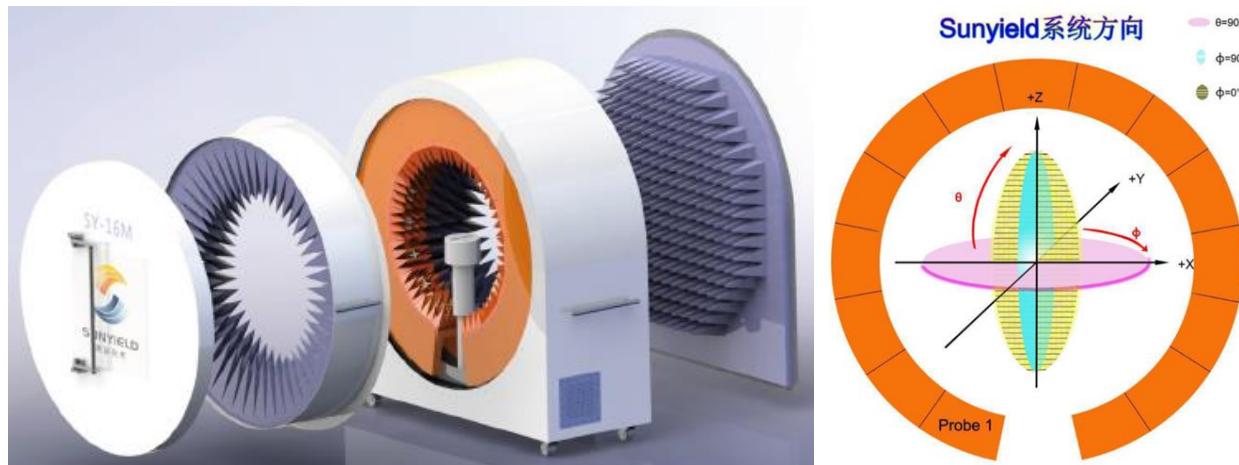


Figure 1 SY-16 OTA system

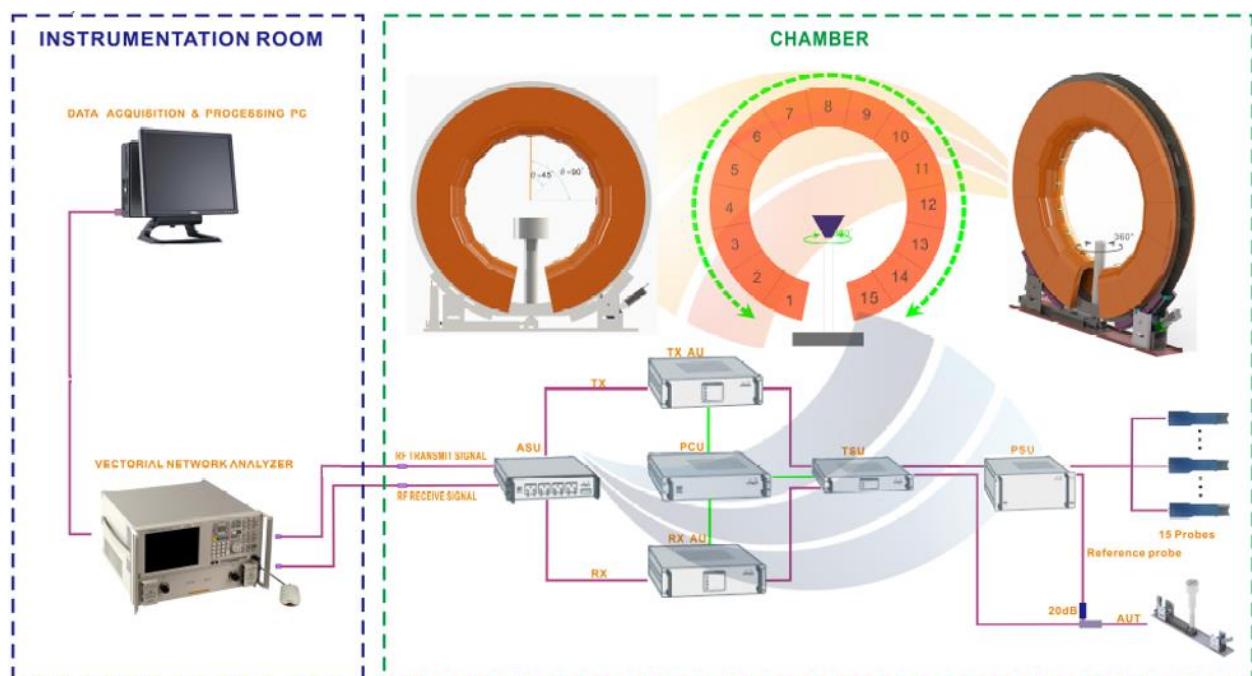


Figure 2 OTA measurement topology

Test Result

Efficiency and Gain

Table 1 Antenna Efficiency and Gain

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-0.96	-5.30	29.54
2410	-0.80	-5.26	29.78
2420	-0.79	-5.31	29.44
2430	-0.62	-5.12	30.79
2440	-0.35	-4.82	32.94
2450	-0.39	-4.98	31.76
2460	-0.35	-4.95	32.01
2470	-0.37	-4.73	33.66
2480	-0.36	-4.58	34.85
2490	-0.42	-4.54	35.14
2500	-0.38	-4.41	36.23

Radiation Pattern

Table 2 Product coordinates

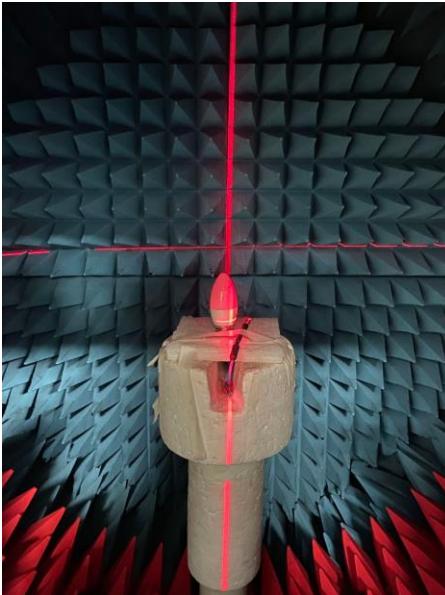
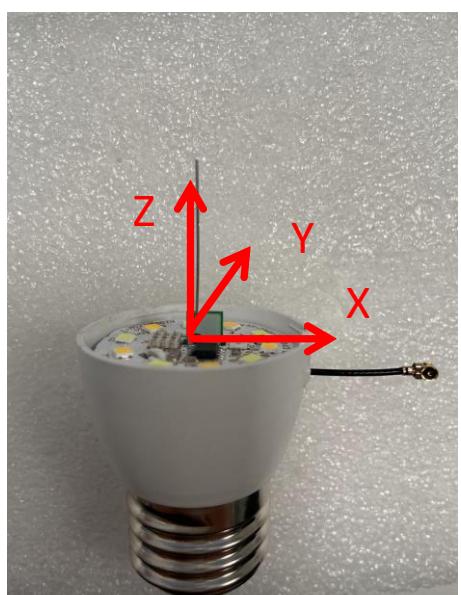
Product Coordinates
 

Table 3 3D radiation pattern

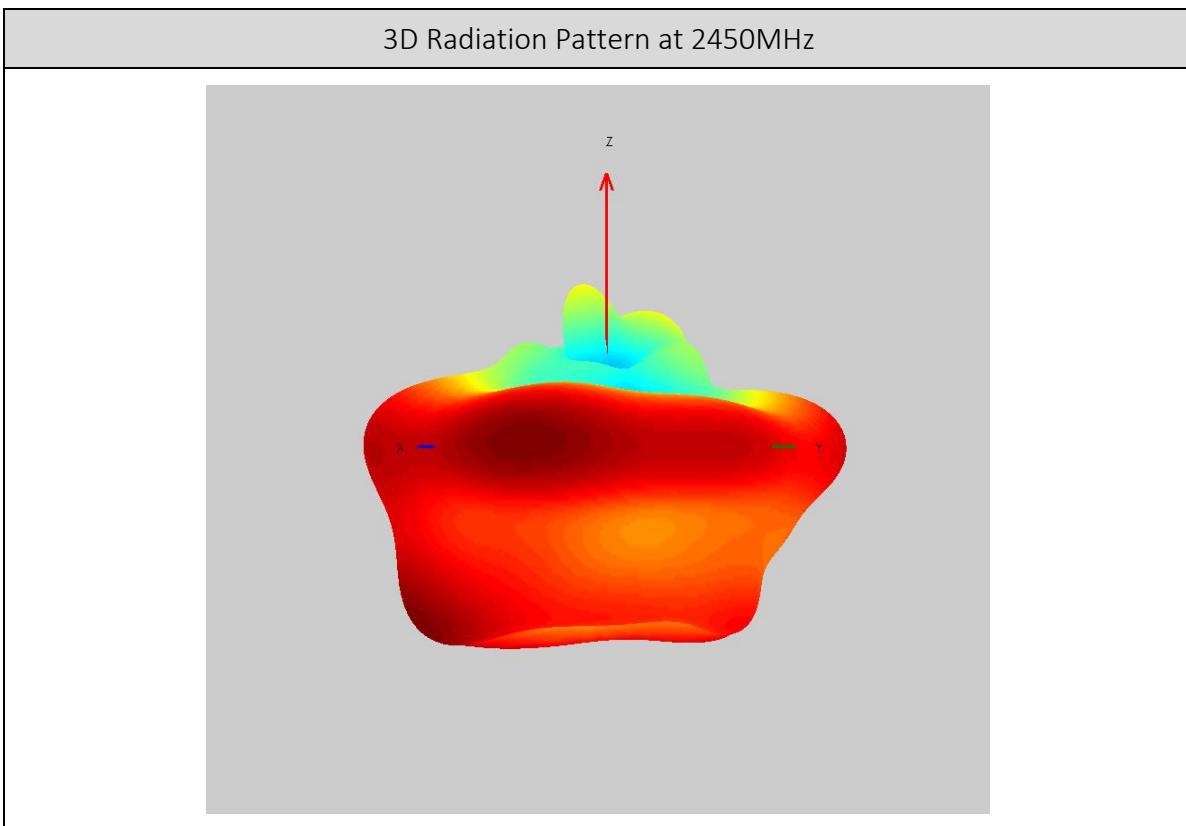


Table 4 Radiation pattern in XY Plane

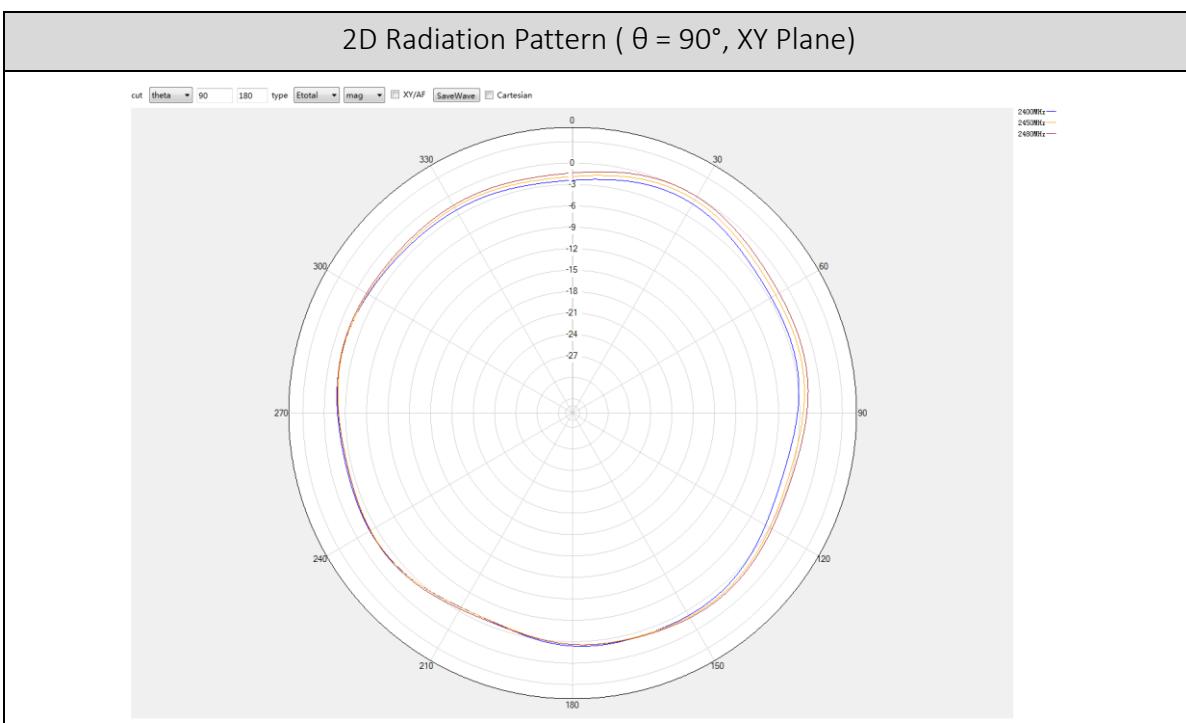


Table 5 Radiation pattern in XZ Plane

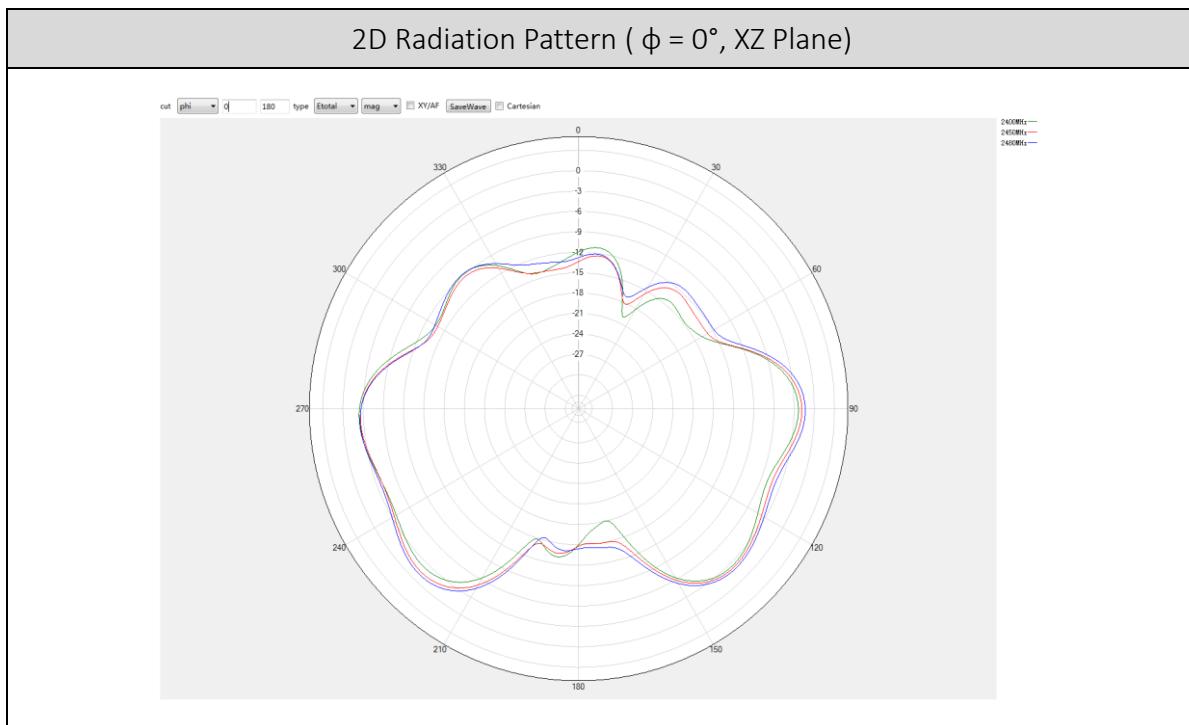


Table 6 Radiation pattern in YZ Plane

