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Rtant Communications Co., Ltd

Antenna Commissioning & Test Report

Client: Sanjiang

Project: P2

Antenna Engineer: Jiang Wenxiang

Date: 2025-10-13

Version: V0.0

Project Leader: Jiang Lei

15899911229



Catalogue

1 . Project Debugging Overview

2 . Laboratory Test Environment and Equipment

3 . Antenna matching circuit

4. Darkroom coordinate labeling

5 . Antenna Placement

6 . Passive Data

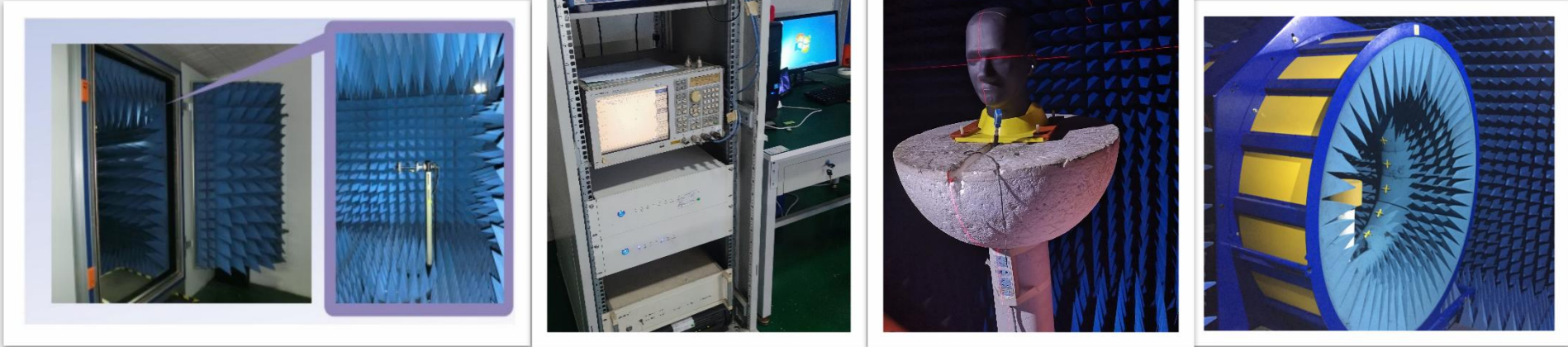
7 . Contact Details



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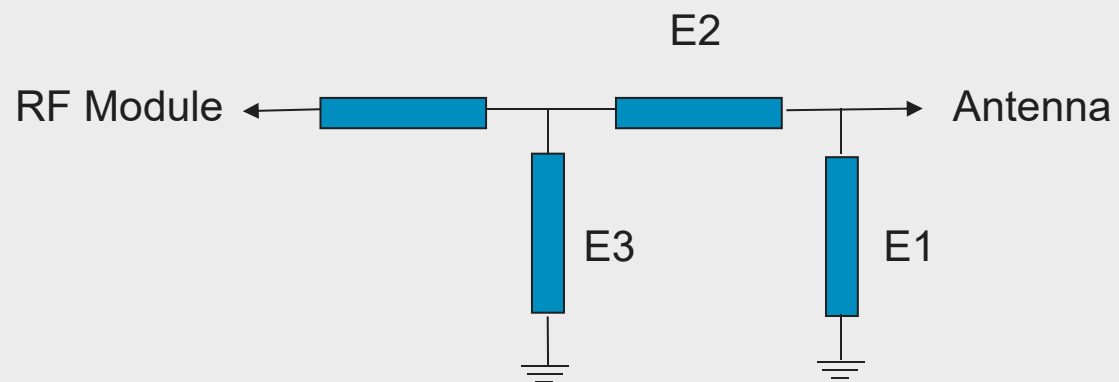


Machine type				
Antenna Types and Frequency Band Information	Antenna system	Band information	Antenna configuration	Match changes
	WIFI	2400-2500MHz/5150-5850MHz	FPC	Deny
Antenna description	φ1.13 Gray L = 95MM IPEX-1			
Antenna material	FPC			

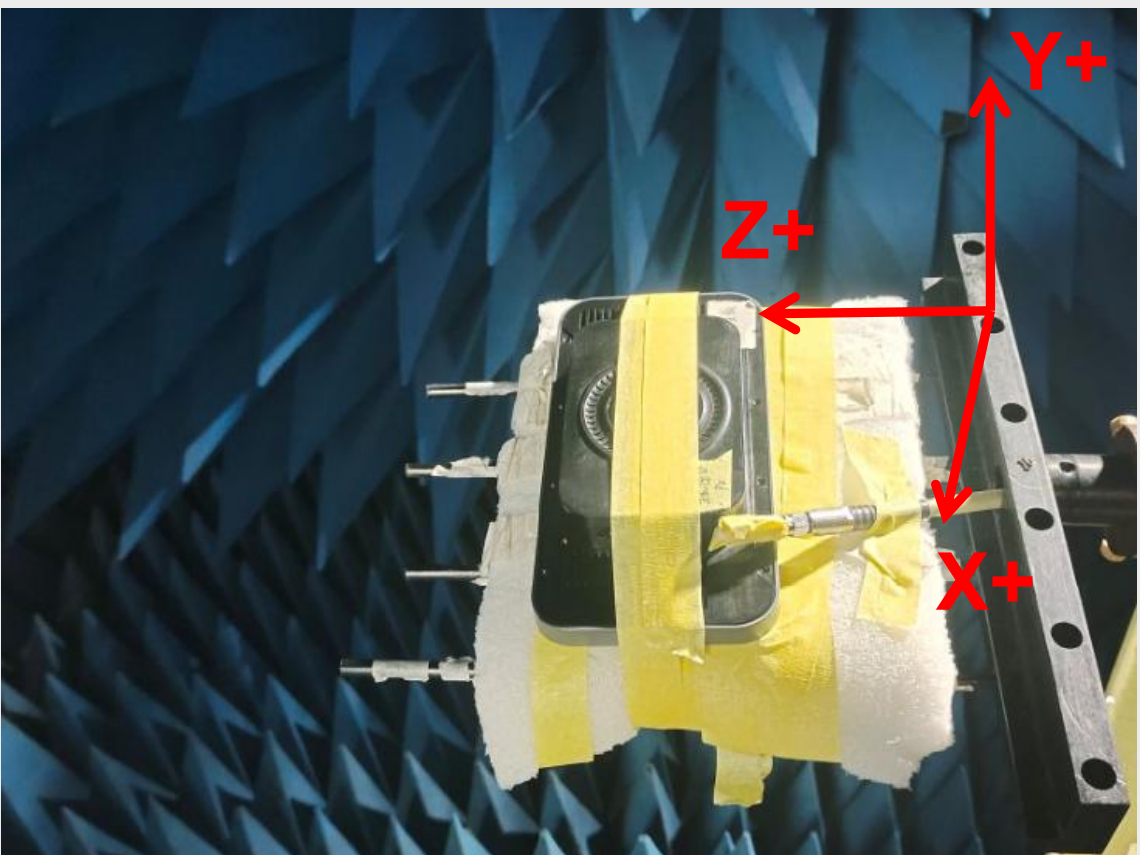


Test item	Testing facility
S11、 S12 、 VSWR 、 LOSS	Network analyzer E5071B, E8753D
Efficiency、 Gain、 3D Radiation Pattern	Satimo SG16 darkroom,Top 10 7*4*3 darkrooms in Taiwan, E5071B, second-generation head unit
TRP、 TIS	Satimo SG16 darkroom,Top 10 darkrooms in Taiwan, CMW500, second-generation head

Note: The equipment for debugging and testing in this project is marked in blue.



	Element	Value
	E1	Not have
	E2	0 euros
	E3	Not have

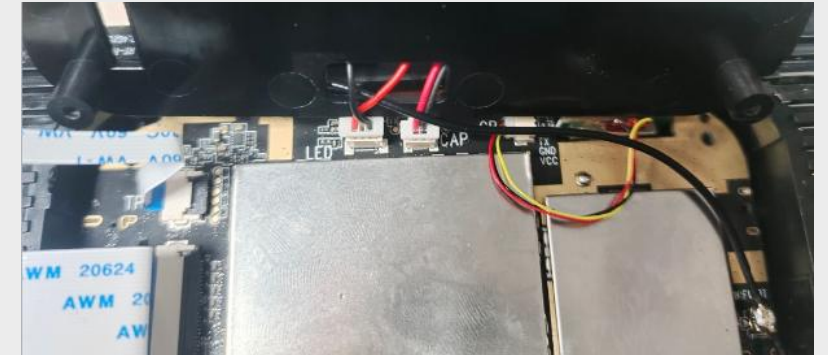
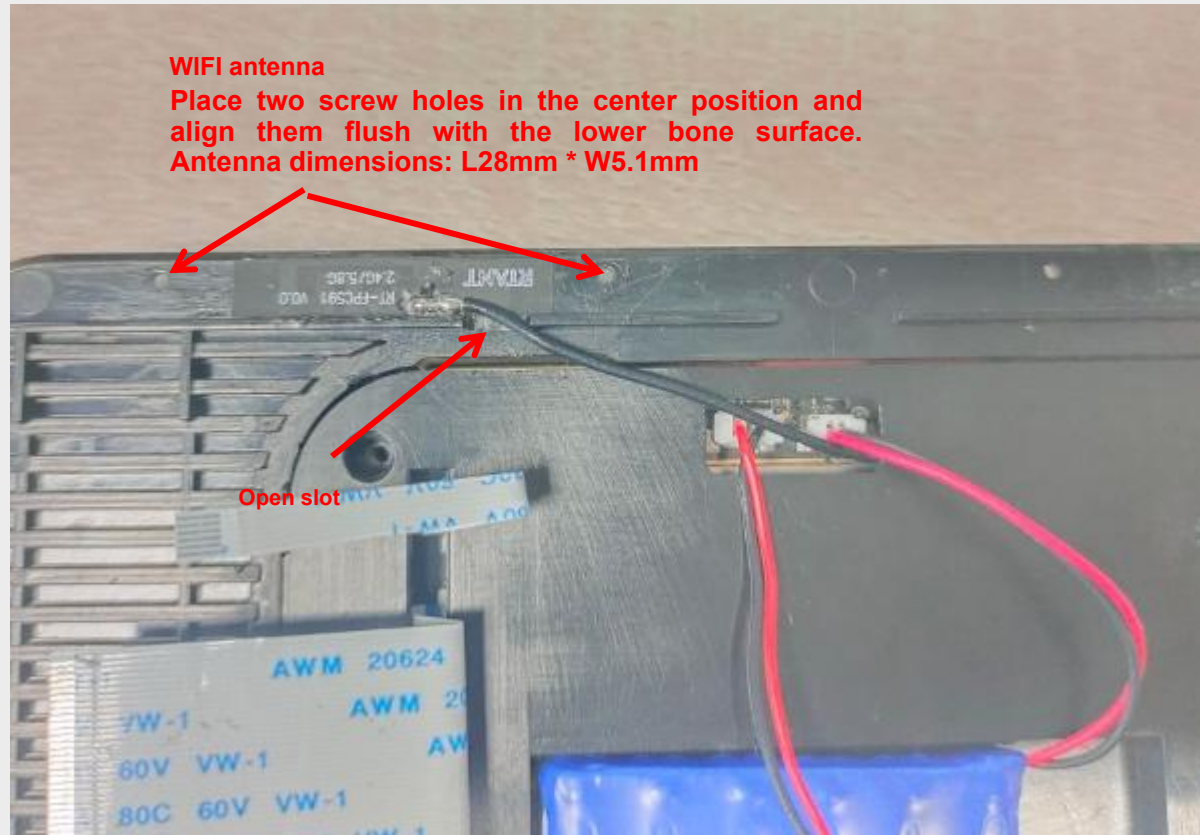




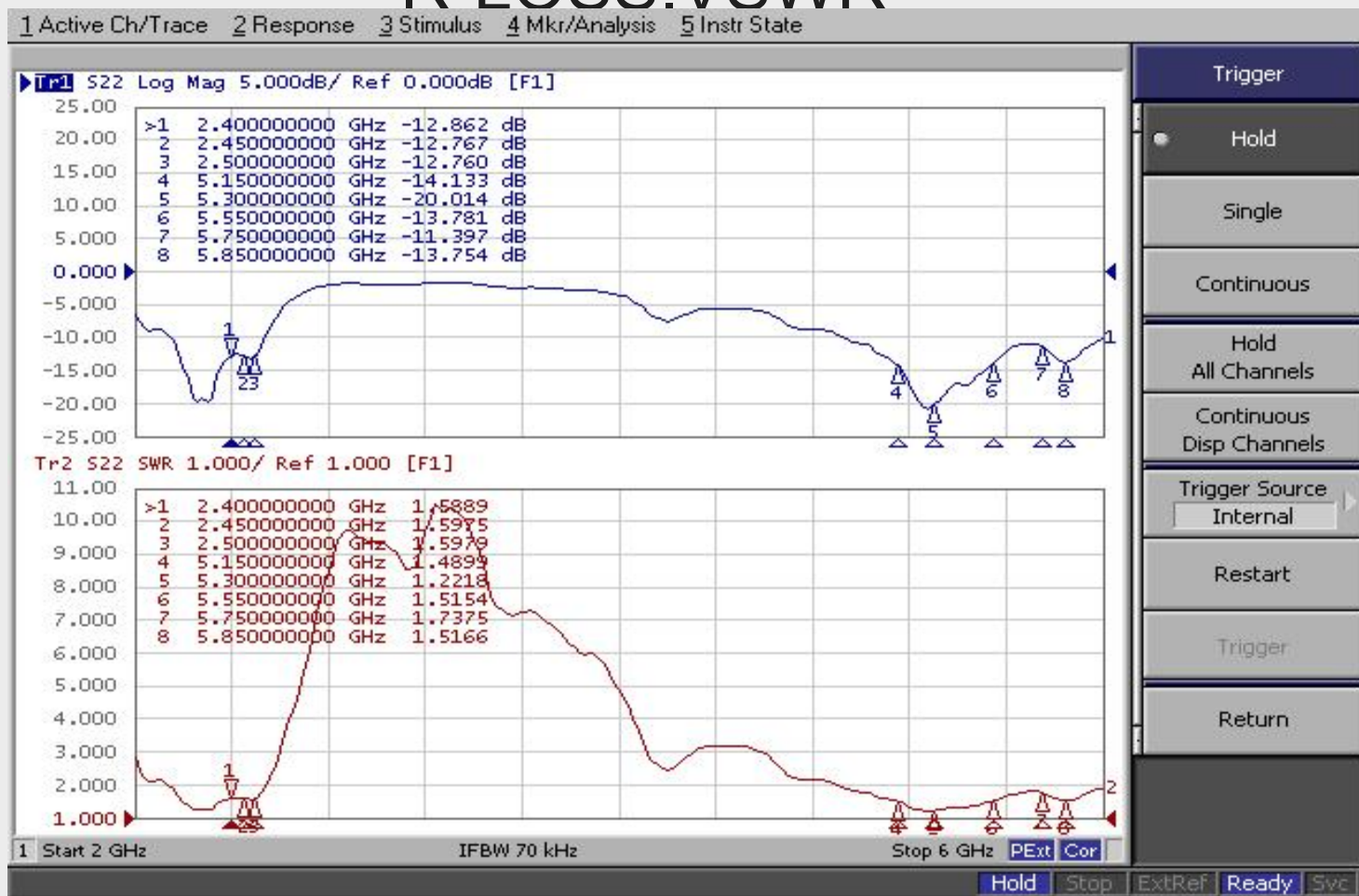
Five-day Antenna Placement Position



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R-LOSS.VSWR

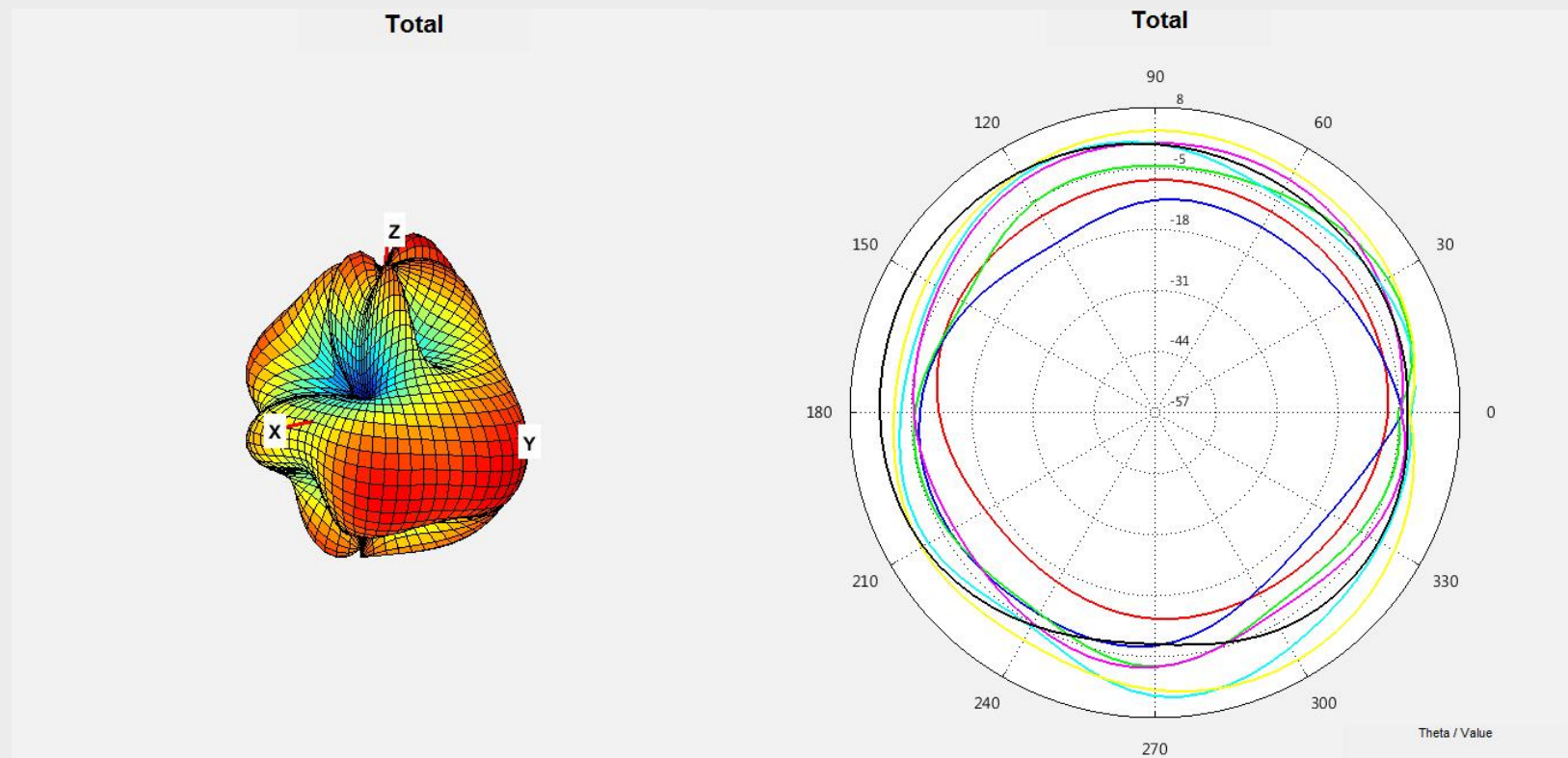




Effi / Gain

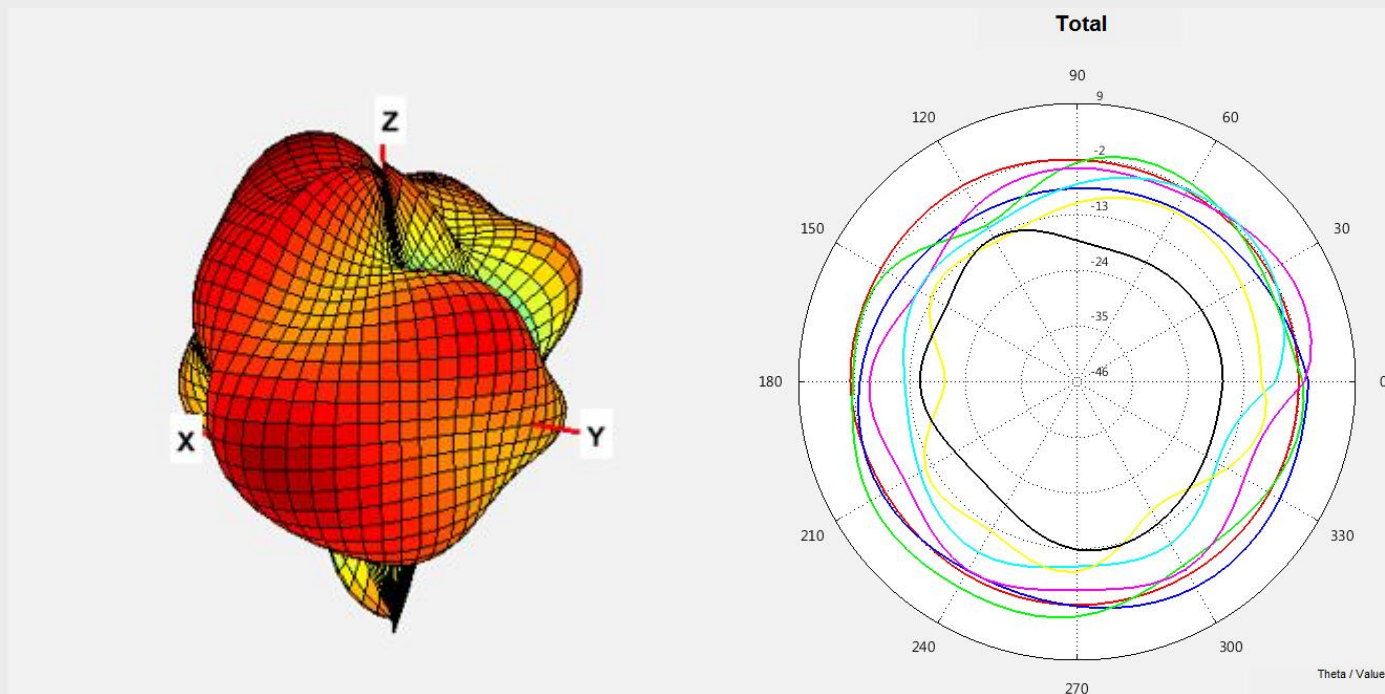
Frequency	2. 40GHz	2. 45GHz	2. 50GHz	5. 15GHz	5. 5GHz	5. 85GHz
Efficiency (%)	42. 18	43. 51	41. 29	41. 87	43. 19	42. 36
Gain (dBi)	1. 28	1. 34	1. 09	1. 12	1. 36	1. 27

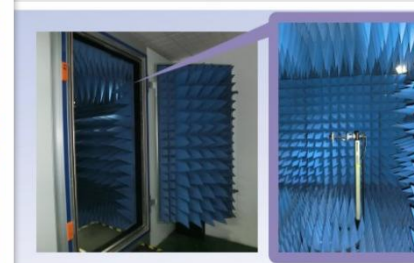
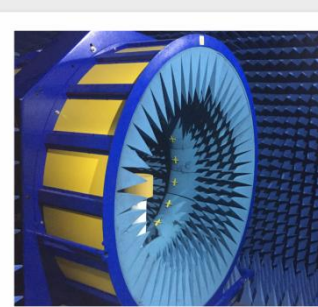
directional diagram 2450MHz



directional
diagram

5550MHz





Learn more <http://www.rtant.com>

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Thank you for your trust in Rtant