

Sample Certificate of Recognition

Document version number: A1

	client	Contract manufacturing	Material supplier
Name of partner:	Anker	Konecranes	Youbi
project name :	T8025	T8025	T8025
Material number:	32002000222	290000-019647	UB01C30F2D4917A
Material description:	2.4G FPC built-in antenna 1.13 black wire terminal L=33MM		
Date of acknowledgement:	2025-04-22	Version of the letter acknowledged	V1

Supplier confirmation	
research and development	character

Anker approval	
Smart research and development ZhiXin MD /HW /ID/ certification	Zhi Xin SQE

Signature explanation: 1. This letter of recognition shall be in at least 5 copies, one copy for anchor R&D and SQE respectively, one copy for material manufacturer and OEM

Keep two copies in the factory;

- 2. Anker Each owner signature shall be signed with the full English name of the company.*
- 3. First, send the electronic file to Anker's corresponding R&D and SQE for confirmation. After OK, send the paper file for signature and approval.*

Declaration

APPROVAL SHEET

CUSTOMER NAME: Anker

PRODUCT NAME: 2.4G FPC built-in antenna 1.13 black wire
terminal L=33MM

CUSTOMER P/N:

Youbi P/N: UB01C30F2D4917A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	 Yuefei.zhu	
APPROVED BY:		
DATE:	2025/04/22	

Catalogue

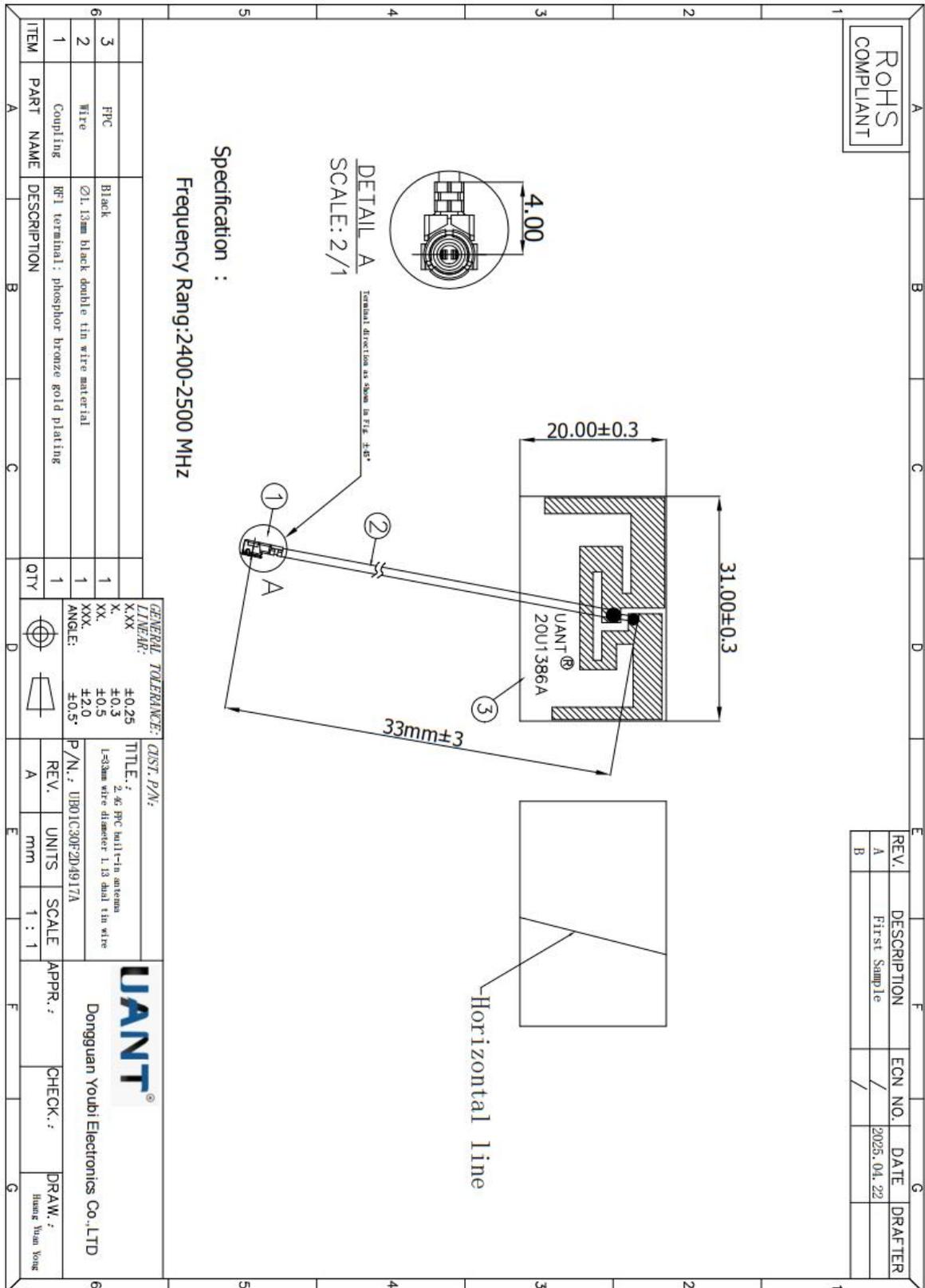
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1、Revision History

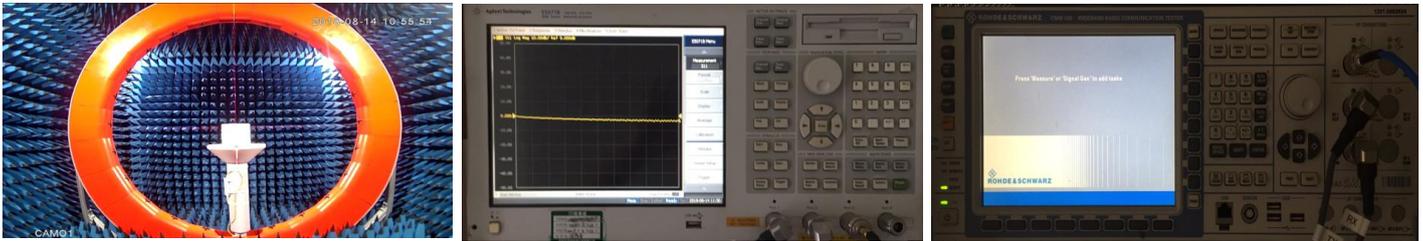
Version	Content Revision	Issued by	Date
A	Original version	lina	2025-04-22

2、2D Drawings



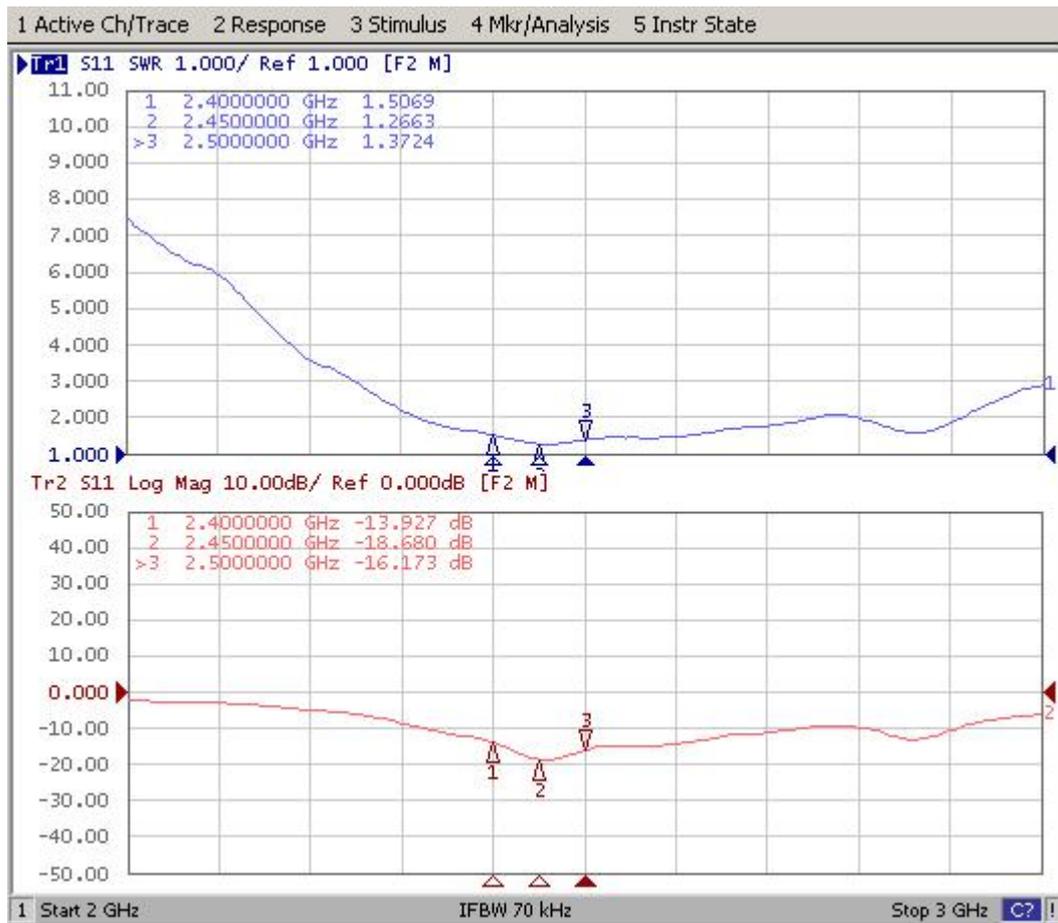
3、Test equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



4、Antenna S11

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-13.92	1.50
2450	-18.68	1.26
2500	-16.17	1.37



* Voltage Standing Wave Ratio(VSWR)

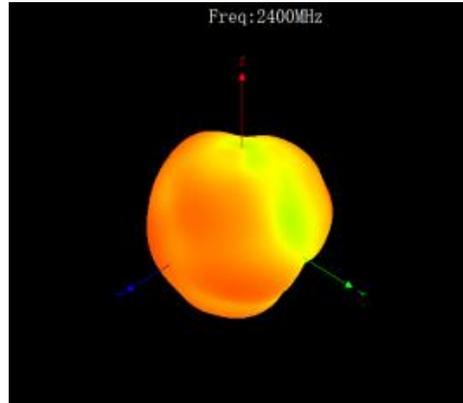
Return Loss(RL)

$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

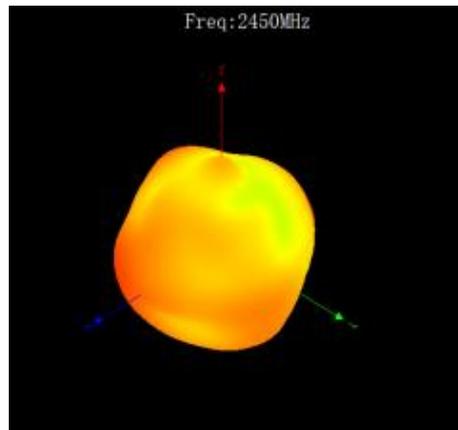
5、Antenna Efficiency&Gain

Frequency / MHz	Efficiency / %	Gain/ dBi
2400	72.28	3.13
2410	70.15	3.21
2420	72.95	3.12
2430	68.55	2.47
2440	69.5	2.48
2450	66.99	2.95
2460	62.09	2.31
2470	66.07	3.31
2480	64.86	2.89
2490	65.31	2.7
2500	66.68	2.97

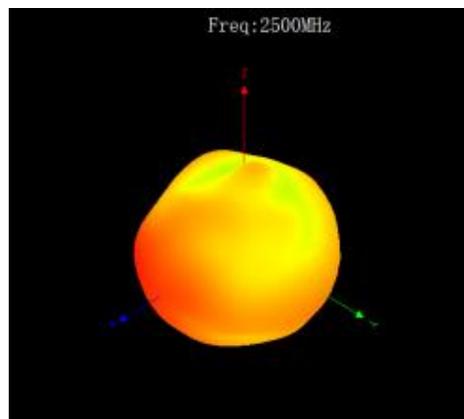
6、Antenna 2D/3D Radiation direction



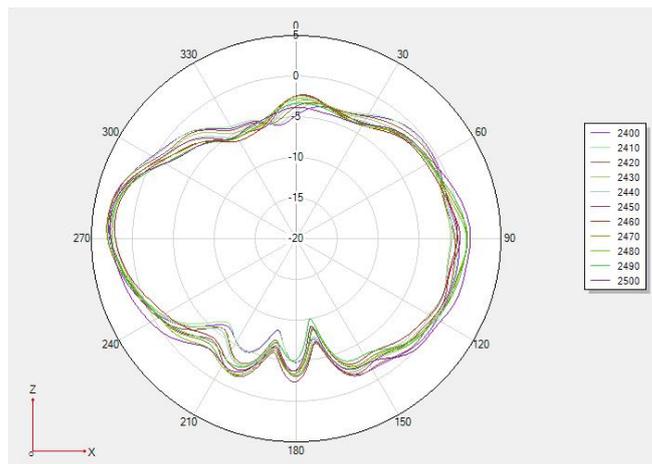
2400MHz



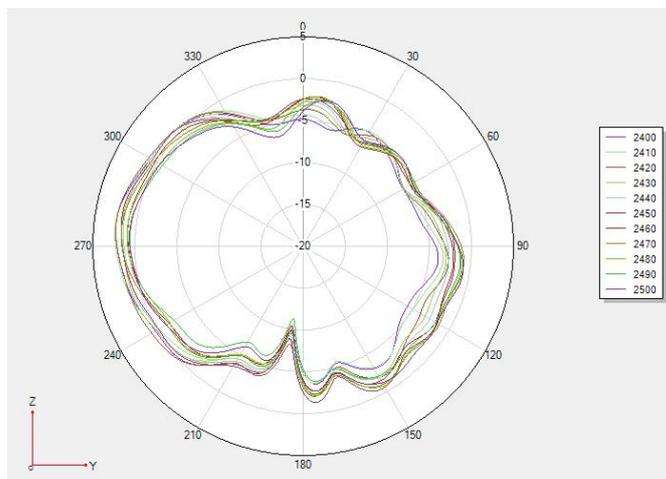
2450MHz



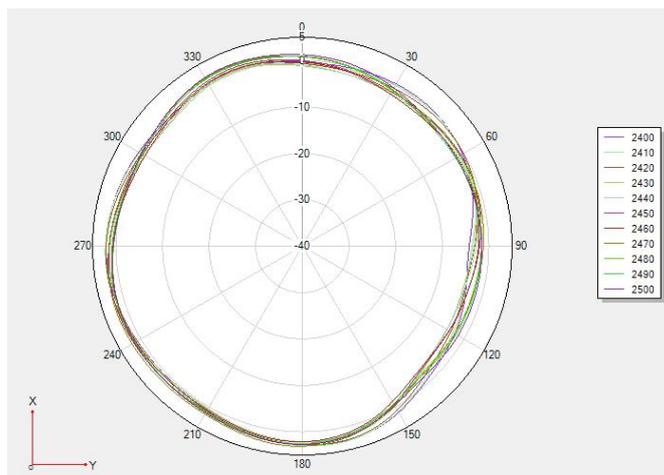
2500MH



Phi 0 2D



Phi 90 2D

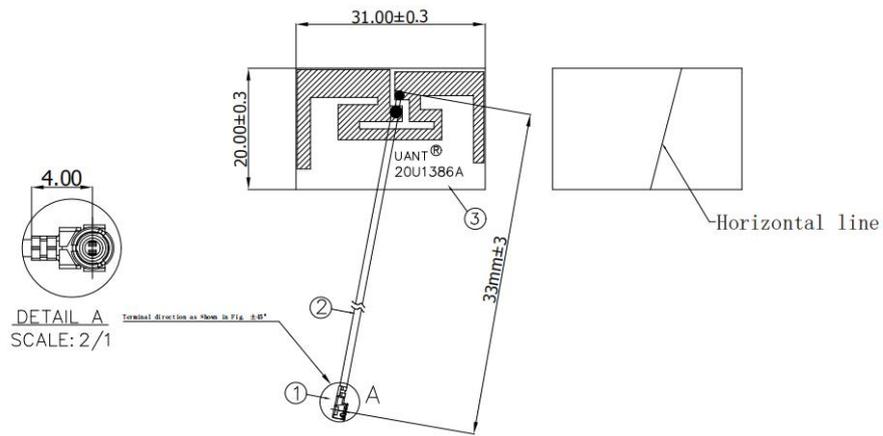


Theta 90 2D

7、 Full Size Test Report

Full dimensional inspection report

customer name	Anker	drawing number	V01
project name	External antenna	data unit	mm
Part code/material number	UB01C30F2D4917A	examination date	2025. 4. 22



order number	dimensional requirement	survey tools	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	judge	Customer comments, review comments
1	33±3	steel rule	33.0	33.02	33.02	33.0	33.03	OK	
2	31±0.3	callipers	31.02	31.03	31.03	31.02	31.01	OK	
3	20±0.3	callipers	20.03	20.03	20.02	20.04	20.02	OK	
4									

Approved: Huangtu Fang;

Reviewed: /;

Inspector: Lu Yingxin.