

SPECIFICATION FOR APPROVAL

DESCRIBE: Anker Innovations Co., LTD (T8223)

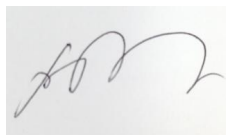
Customer NO:

PART NO: ATC1424-HY070B04RA

Antenna type: 2.4 WIFI-Ant FPC (Black)

DATE: 2024. 05. 30

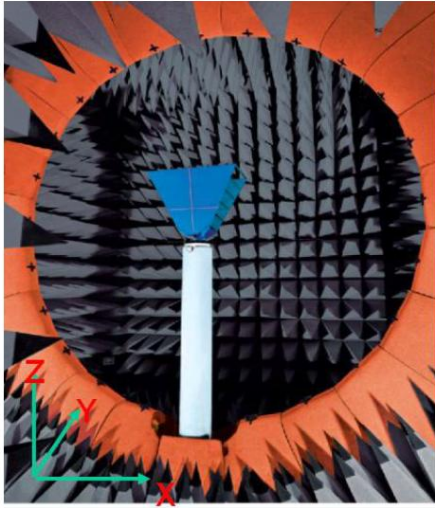
PROVIDER: AT&C TECHNOLOGIES(SHENZHEN) CO. LTD

Customer Admit	confirm	ID Department	Test department	Structure section	Quality department
Supplier Admit	confirm	confirm	Proofreading	To examine	Approval
		ziyehui	mo zhenwen	Xuliying	

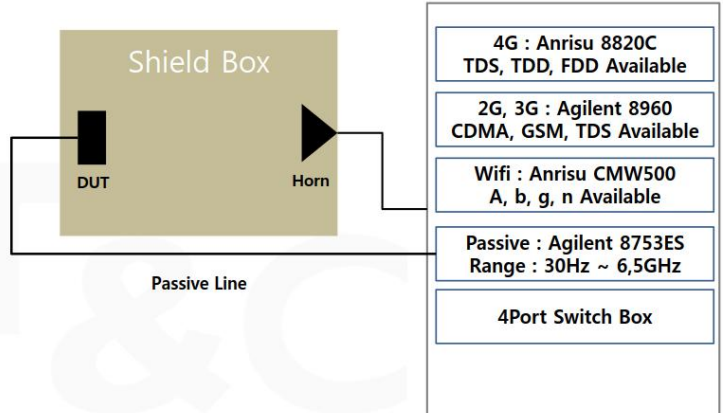
● Chamber System : Satimo 24L

● Measure System Diagram & Equipments

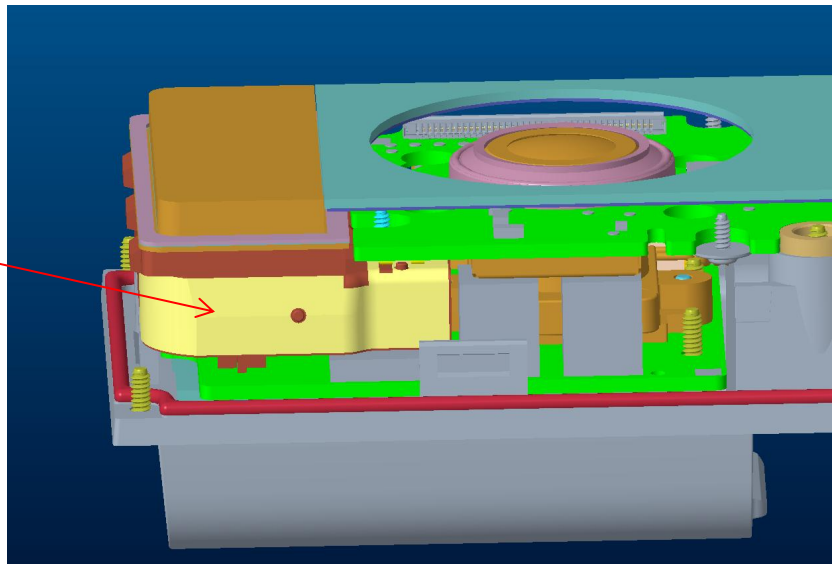
Confidential



[Fig.] Shield Box



WIFI ANT





BOM

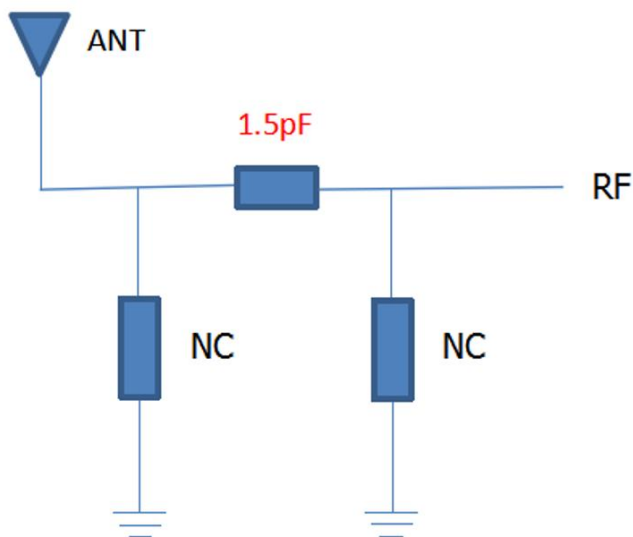
Customer	Anker	Written By	ZYH	Orig. Date	2024.05.30
part Number	ATC1424-HY070B04RA	Revised By	SHIN	Revised Date	2024.05.30
Description	WIFI-ANT	Approved By	HJ	Approved Date	2024.05.30

Customer number	ATC number	Part name
	ATC1424-HY070B04RA	pi+cu, 33. 5*10. 63, Black

Impedance Matching

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1. Wear a 1.5pf capacitor.

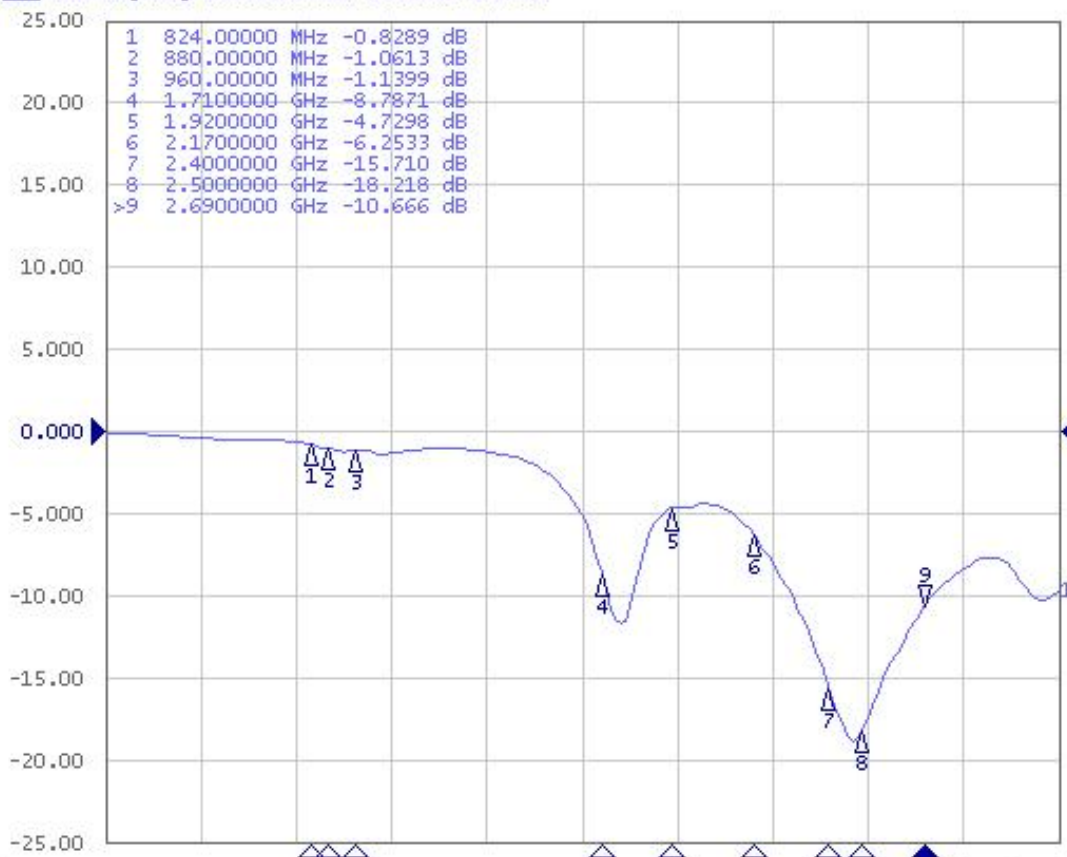


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1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]

1	824.00000 MHz	-0.8289 dB
2	880.00000 MHz	-1.0613 dB
3	960.00000 MHz	-1.1399 dB
4	1.7100000 GHz	-8.7871 dB
5	1.9200000 GHz	-4.7298 dB
6	2.1700000 GHz	-6.2533 dB
7	2.4000000 GHz	-15.710 dB
8	2.5000000 GHz	-18.218 dB
>9	2.6900000 GHz	-10.666 dB



1 Start 200 MHz

IFBW 70 kHz

Stop 3.1 GHz

Sim PExt C? !

Display

Allocate Channels

Num of Traces
3

Allocate Traces

Display Mem

Data -> Mem

Data Math
OFF

Equation Editor...

Equation
OFF

Edit Title Label

Antenna *Efficiency

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(2.4G) Passive Test Results

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max Gain (dBi)
2400	58.46%	-2.33	2.48
2410	59.12%	-2.28	2.64
2420	58.81%	-2.31	2.82
2430	57.97%	-2.37	2.79
2440	56.83%	-2.45	2.74
2450	56.89%	-2.45	2.76
2460	57.18%	-2.43	2.68
2470	58.63%	-2.32	2.63
2480	60.03%	-2.22	2.90
2490	61.70%	-2.10	3.29
2500	61.25%	-2.13	3.11
AVG:	58.81%	-2.31	2.80

2D Radiation Pattern

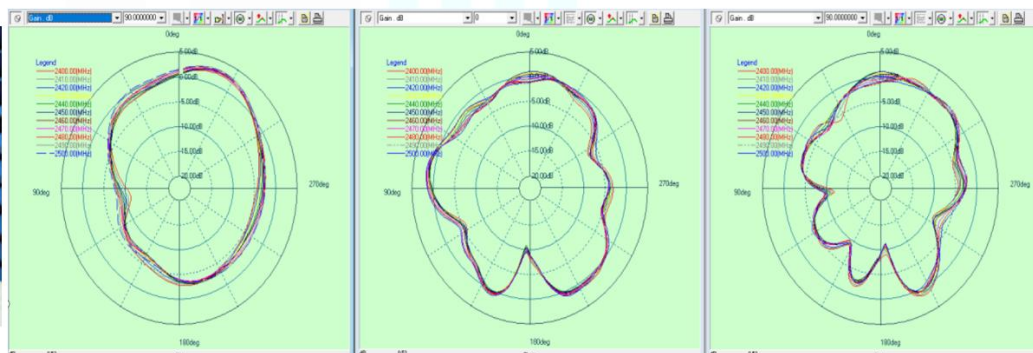
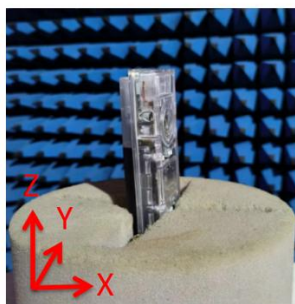
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1. Azimuth Pattern H-Plane : "H", X-Y plane
2. Elevation Pattern E1, E2-Plane) : "E1", "E2", X-Z plane(E1), Y-Z plane(E2)
3. It is a structure that supplements the distortion of the horizontal plane in the vertical plane and has a gentle sphere shape in three dimensions.

H

E1

E2

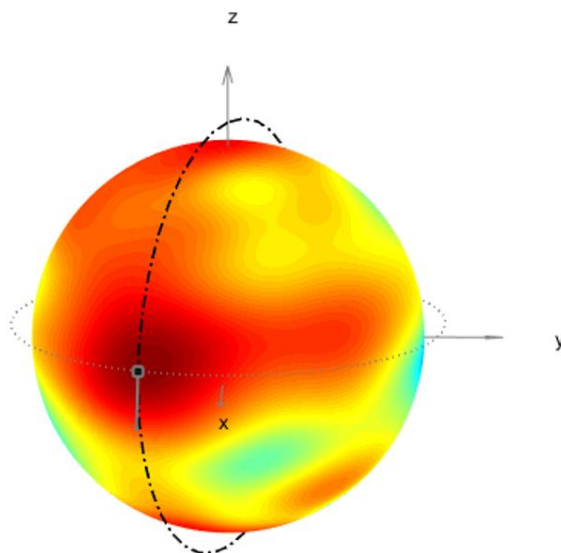
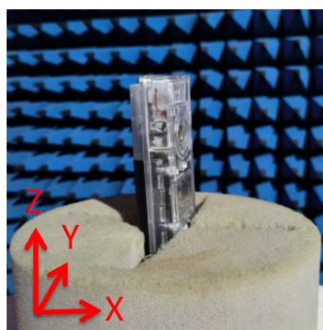


3D Radiation Pattern

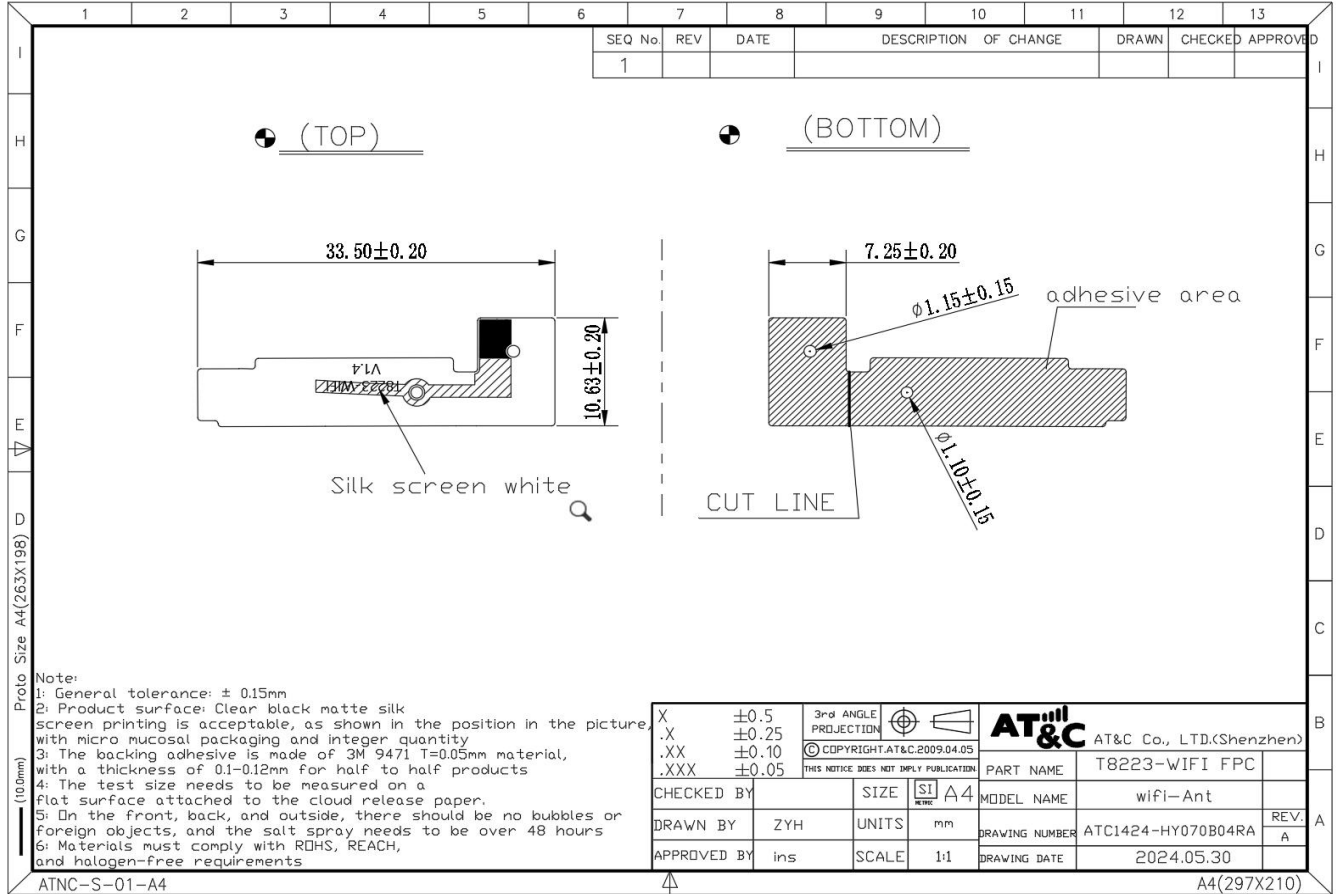
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1. This 3D Radiation Pattern shows the response of each angle antenna gain on the sphere.
2. The objects corresponding to the X-Y-Z axes are shown in the left picture.

2450MHz



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Size information					Measuring sample			% Tolerance		Handling opinions			
number	Dimension property	Dimension	Lower tolerance	Upper tolerance	1	2	3	Upper	Lower	determine	Supplier review comments	Customer review comments	Measuring tool
1	key point	33.5	-0.20	0.20	33.52	33.51	33.48			PASS			PJ
2	key point	10.63	-0.20	0.20	10.68	10.69	10.61			PASS			PJ
3	key point	1.1	-0.15	0.15	1.07	1.11	1.09			PASS			PJ

Salt spray test report

Customer Name:	Anker (T8223)	Specification and model:	ATC1424-HY070B04RA
Sample situation:	Sample quantity: 3PCS		
	Substrate: PI	Coating: Gold plating	
Test start and end time:	From 10:00 on April 9th, 2024 to 10:00 on April 11th, 2024, a total of 48 hour		
Test type:	☒ NSS	☐ ASS	☐ CASS
Test conditions:	Salt solution ratio: 5% ± 1%		PH: 6.5~7.2
	Temperature inside the box: 35 ° C		Relative humidity: 85% ± 2%
	Spray mode: ☒ Continuous ☐ Intermittent		Compressed air pressure: 1kg/cm ²
	Spray volume: 1.0 ~ 2.0ML/80CM ² /H		Test object placement angle: 30 degrees±10 degrees
	Test cycle: __ cycles		Spray time: 48 h
		Placement time: 2 hours	
Judgment criteria:	Appearance: intact and undamaged, with no significant changes. Coating: No oxidation, rust, discoloration, or corrosion spots. Screen printing: No shedding or bubbles.		
Test results:	Appearance after test: The appearance is intact and undamaged, with no significant changes. Coating: No peeling or rusting Surface spraying and screen printing: no peeling or bubbles.		
Explanation: 1. The salt spray test operation standard shall be executed in accordance with the national standard GB/T2423.17-2008 of the People's Republic of China 2. The criteria for determining test specimen results shall be in accordance with the national standard GB/T6461-02 of the People's Republic of China			
Tester: Zhang Luo		Reviewed by: Liang Houbo	

Packaging method

PE bag packaging, product emission neat, uniform quantity



Picture: Outer box "I" seal, QC PASS seal on the left side of the outer box, sealed without exposure.



PART LIST

The packing drawing is schematic diagram, which does not mean that the picture is the actual product and the actual shipment is the standard.

NO	DESCRIPTION	Q'TY	MATERIAL	REMARKS	REV.
1	ANTENNA	1/1000		N/A	A
2	PAD OUT	1/4	SW A골 5T	N/A	A
4	CARTOON BOX	-	SW A골 5T	N/A	A
5	PACKING TAPE	-	PP	N/A	A