

SPECIFICATION FOR APPROVAL

DESCRIBE: HY Innovations Co., LTD (T85P1)

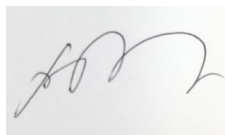
Customer NO:

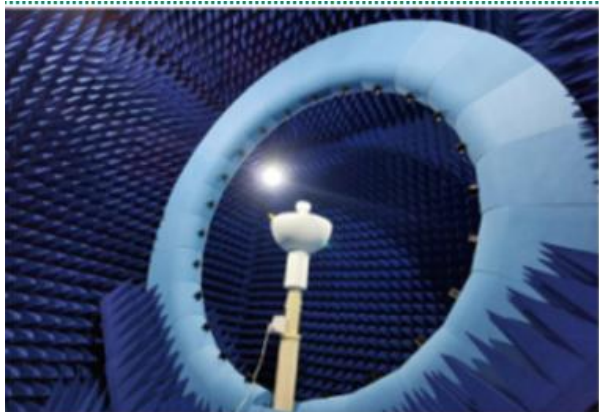
PART NO: ATC1479-HY091B70RA

Antenna type: MCX female joint flange fixed+antenna component

DATE: 2025.02.27

PROVIDER: AT&C Technology (Shenzhen) Co.
201, Building C, Chuangwei Innovation Valley, No.1 Tangtou Road, Shiyao Street, Bao'an District, Shenzhen, China

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



We have RF equipments as below

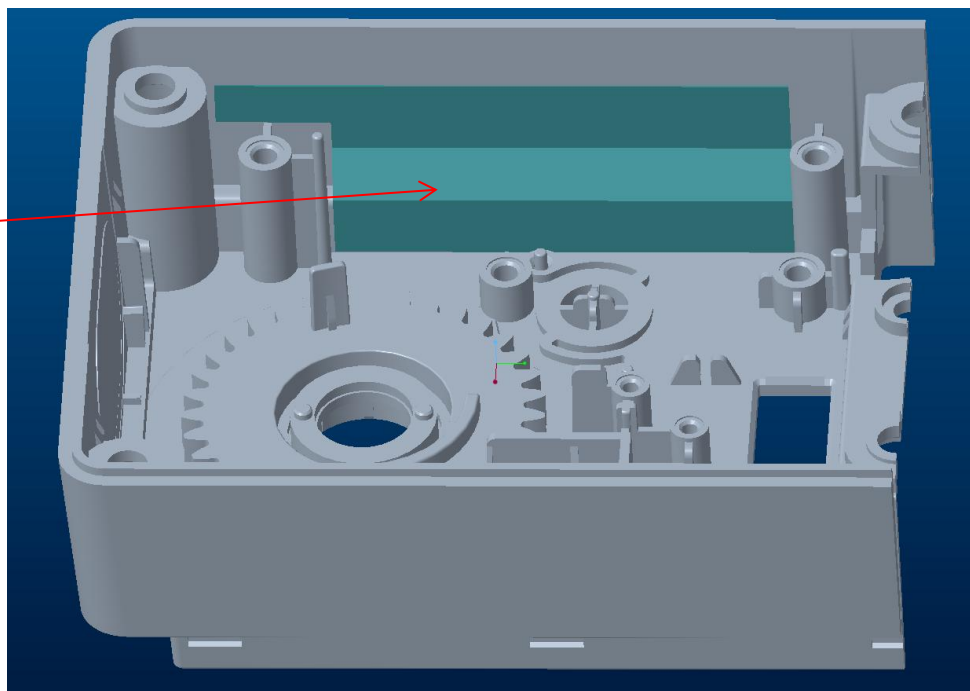
Anechoic Chambe

- Satimo 1ea
- SY24 1ea
- SAR 1ea
- KSS 2ea

Measurement

- 2G, 3G, 4G
- GPS
- Wifi
- Bluetooth(3.0) OTA
- NFC & WPC

WIFI ANT





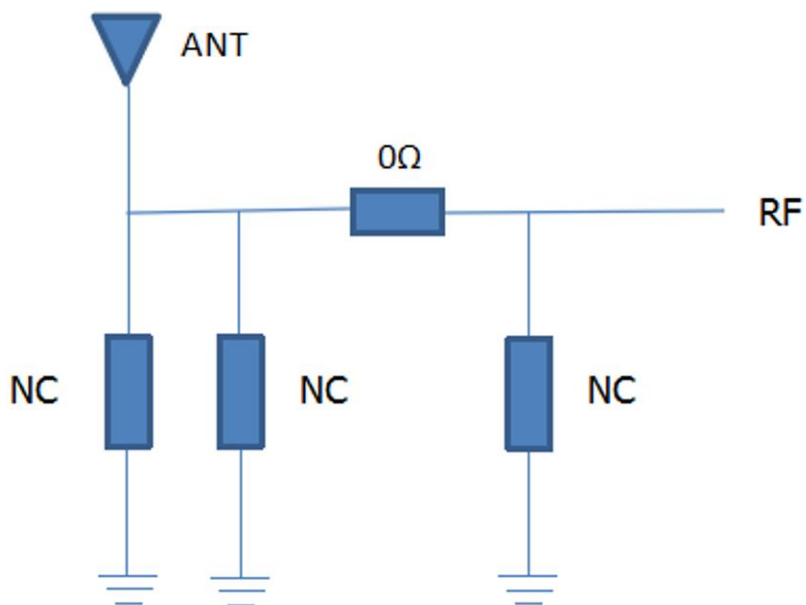
BOM

Customer	HY	Written By	ZYH	Orig. Date	2025.02.27
Part Number	ATC1479-HY091B70RA	Revised By	SHIN	Revised Date	2025.02.27
Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2025.02.27

Customer P/N	Part P/N	Part Name	Part description
	ATC1479-HY091B70RA	WIFI Ant	FPC matte black/black wire length 73mm with MCX female connector

Customer	HY	Written By	ZYH	Orig. Date	2025.02.27
Part Number	ATC1479-HY091B70RA	Revised By	SHIN	Revised Date	2025.02.27
Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2025.02.27

1. No changes made



Customer	HY	Written By	ZYH	Orig. Date	2025.02.27
Part Number	ATC1479-HY091B70RA	Revised By	SHIN	Revised Date	2025.02.27
Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2025.02.27





Antenna *Efficiency

Customer	HY	Written By	ZYH	Orig. Date	2025.02.27
Part Number	ATC1479-HY091B70RA	Revised By	SHIN	Revised Date	2025.02.27
Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2025.02.27

(2.4G) Passive Test Results

Frequency	Efficiency	Gain. dBi
2400	58.21%	2.52
2410	58.71%	2.40
2420	59.53%	2.13
2430	59.19%	2.31
2440	57.87%	2.32
2450	57.53%	2.58
2460	57.71%	2.11
2470	57.83%	2.38
2480	57.50%	2.45
2490	58.84%	2.38
2500	56.96%	2.08

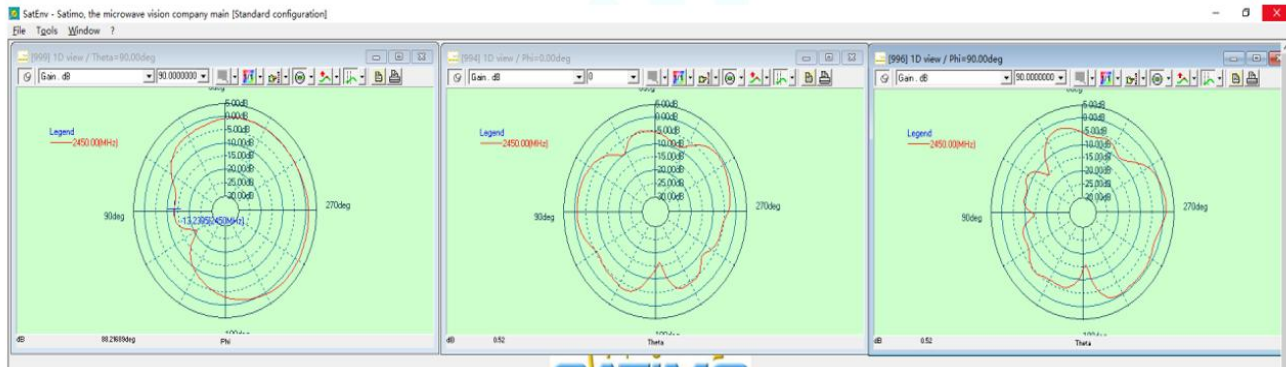
Customer	HY	Written By	ZYH	Orig. Date	2025.02.27
Part Number	ATC1479-HY091B70RA	Revised By	SHIN	Revised Date	2025.02.27
Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2025.02.27



H

E1

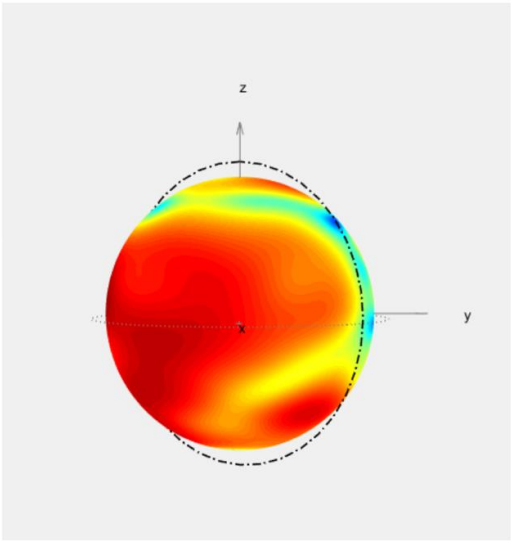
E2



Customer	HY	Written By	ZYH	Orig. Date	2025.02.27
Part Number	ATC1479-HY091B70RA	Revised By	SHIN	Revised Date	2025.02.27
Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2025.02.27



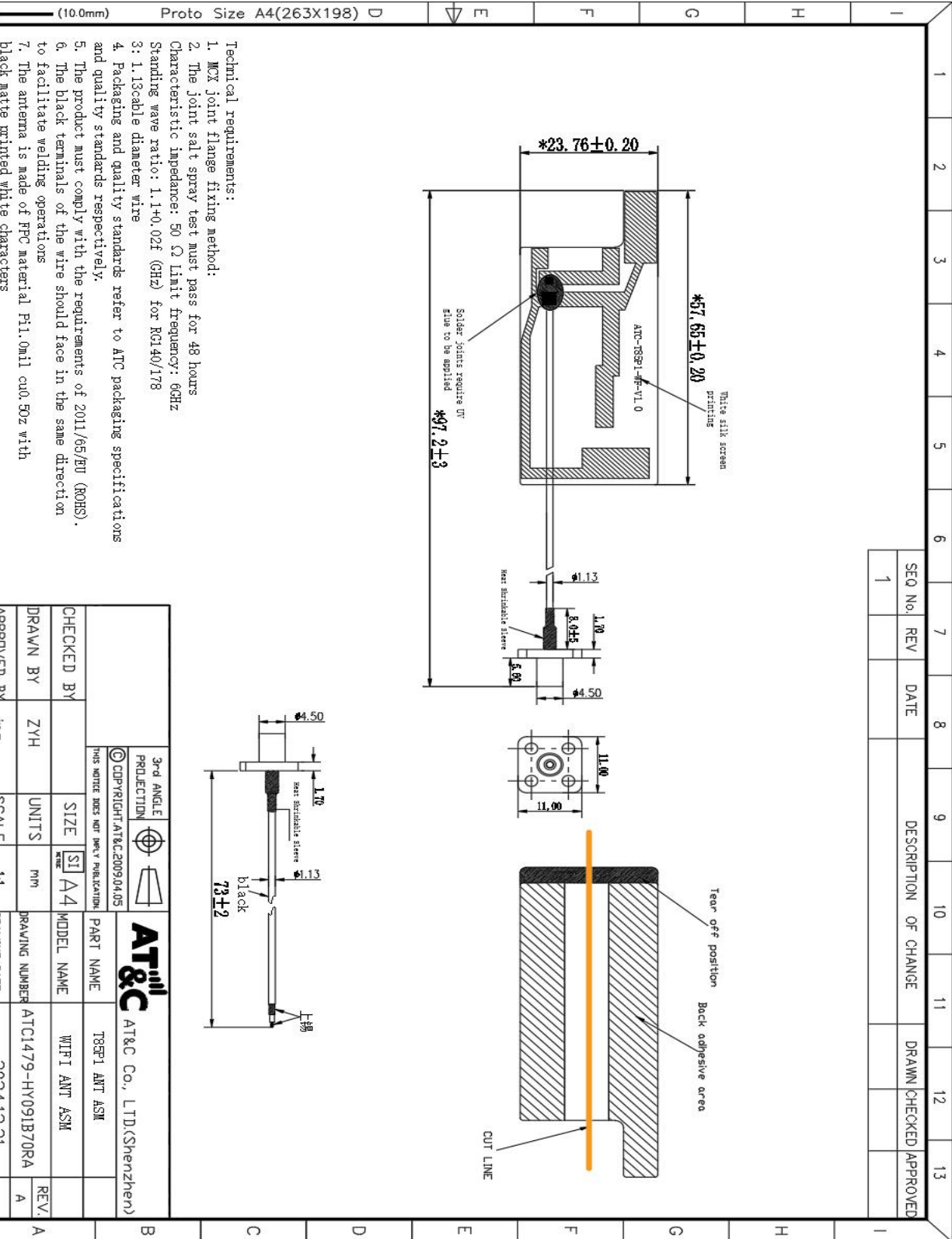
2450MHz



ATNC-S-01-A4



A4(297X210)



- Technical requirements:
1. MCX joint flange fixing method:
 2. The joint salt spray test must pass for 48 hours
 - Characteristic impedance: 50 Ω limit frequency: 6GHz
 - Standing wave ratio: 1.1+0.02f (GHz) for R0140/178
 - 3: 1.13cable diameter wire
 4. Packaging and quality standards refer to ATC packaging specifications and quality standards respectively.
 5. The product must comply with the requirements of 2011/65/EU (RoHS).
 6. The black terminals of the wire should face in the same direction to facilitate welding operations
 7. The antenna is made of PPC material P1.0mil cu0.50z with black matte printed white characters

3rd ANGLE PROJECTION			
AT&C AT&C Co., LTD.(Shenzhen)			
© CIPRIGHT AT&C 2009.04.05		PART NAME	
THIS NOTICE DOES NOT RELY PUBLICATION			
T8P1 ANT ASM		WIFI ANT ASM	
MODEL NAME		REV.	
SIZE		A	
SI		mm	
UNITS		DRAWING NUMBER	
ZVH		ATC1479-HY091B70RA	
DRAWN BY		SCALE	
APPROVED BY		2024.12.31	



Full Size Test Report

Customer	HY	Written By	ZYH	Orig. Date	2025.02.27
Part Number	ATC1479-HY091B70RA	Revised By	SHIN	Revised Date	2025.02.27
Description	2.4G WIFI ANT	Approved By	HJ	Approved Date	2025.02.27

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	30.75	-0.2	0.2	30.78	30.8	30.76			PASS			PJ
2	key point	33.47	-0.2	0.2	33.48	33.50	33.45			PASS			PJ
3	key point	59.35	-3	3	59.5	56	59.5			PASS			PJ



Salt spray test report

Customer Name	HY (T85P1)	Specification and	ATC1479-HY091B70RA
Sample situation	Sample quantity: 3PCS		
	Substrate: PI		Coating: Au
Test start and end time	48 hours from 10:00 on December 26, 2024 to 10:00 on December 28, 2024		
Test type	<input checked="" type="checkbox"/> NSS	<input type="checkbox"/> ASS	<input type="checkbox"/> 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: <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Compressed air pressure: 1kg/cm ²
	Spray volume: 1.0 ~ 2.0ML/80CM2/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/T2423.1 7-2008 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