

Approval Sheet

Customer : 美商定誼

Project Name : DT312RP

Customer P/N : 27-312-720070

P/N : AJDP1J-B0117

Product Description : WiFi main antenna
MHF-4 / RF1.13_200mm_Black

Issue Date : 2024 / 07 / 10

Reversion : A

Customer Approved	Anjie Approved

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1. Specification

- . Product Number: AJDP1J-B0117
- . Version : 1.0
- . Model Name : DT312RP

Electrical Characteristics

- . Frequency (MHz) : 2400-2500MHz / 5150-7125MHz
- . S.W.R. : $\leq$ 2.0 / 3.0
- . Efficiency (dB): > -4 / -5
- . Peak Gain : 1.8 / 2.9 dBi
- . Impedance : 50 ohm
- . Polarization : Linear

Mechanical Characteristics

- . Material : PCB
- . Cable : RF 1.13
- . Connector : MHF-4
- . Color : Black
- . Material : RoHS 2011/65/EU

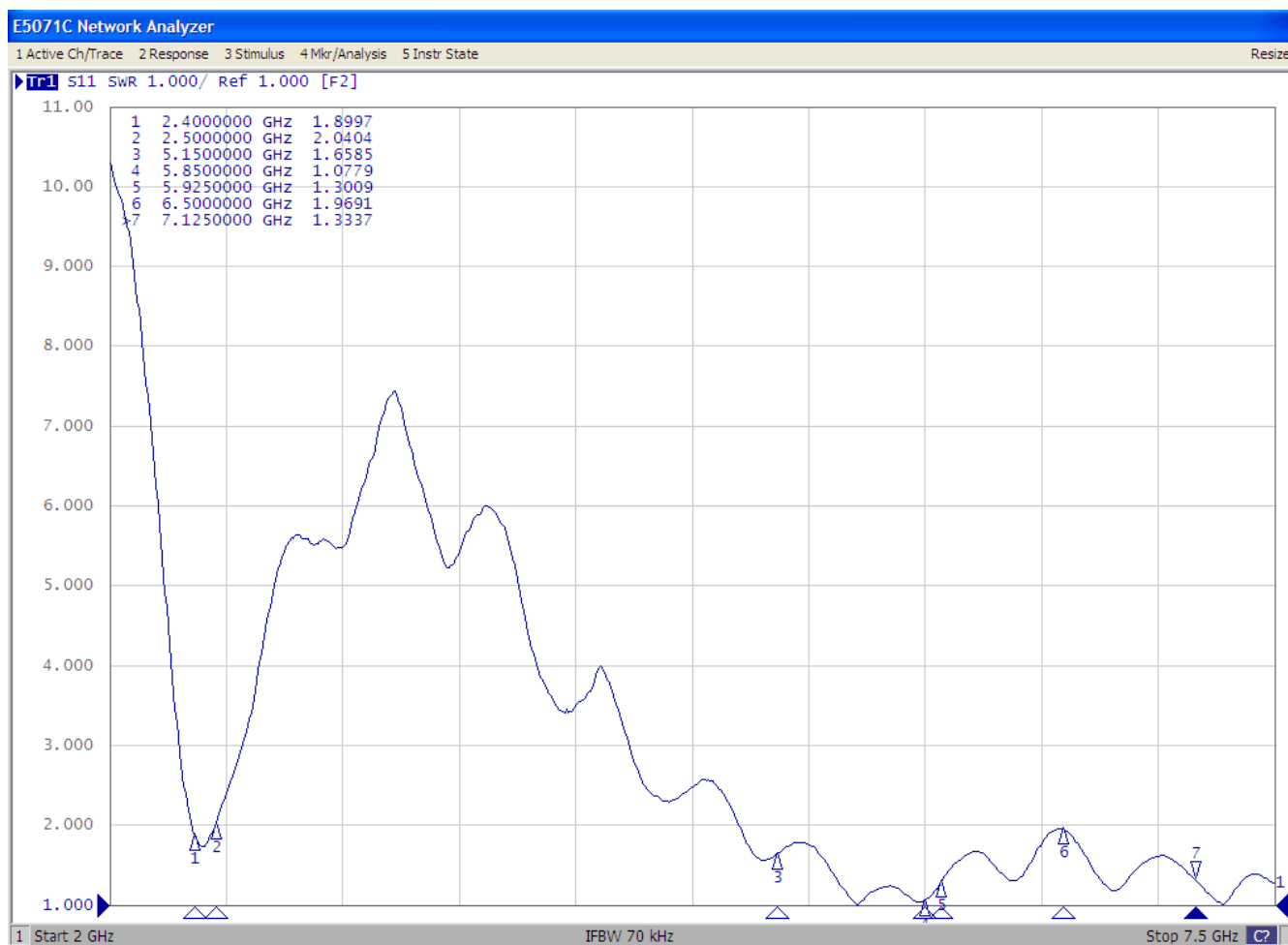
with IEC 62321:2008 Method

Environmental Condition

- . Operation Temperature : -30 ~ +60 °C
- . Storage Temperature : -40 ~ +85 °C

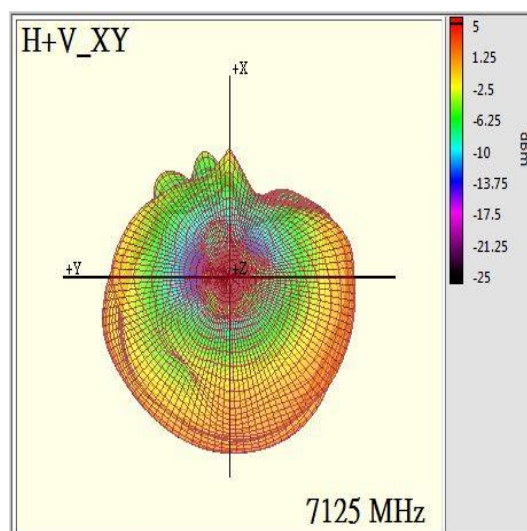
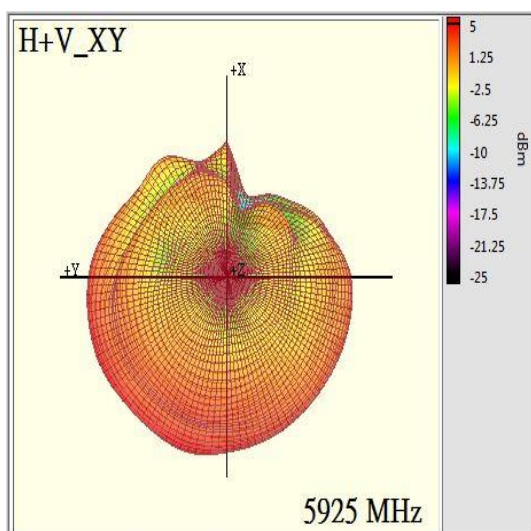
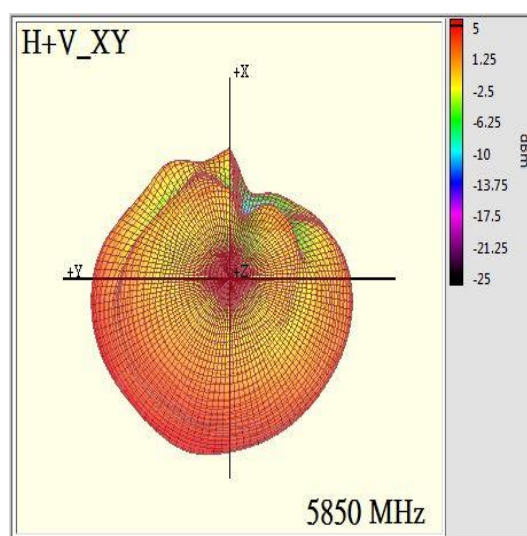
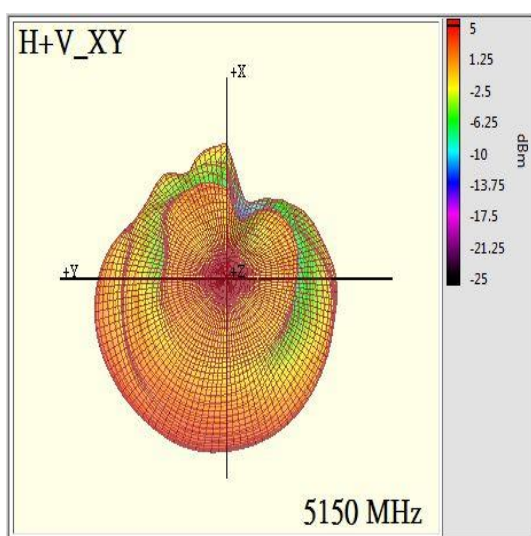
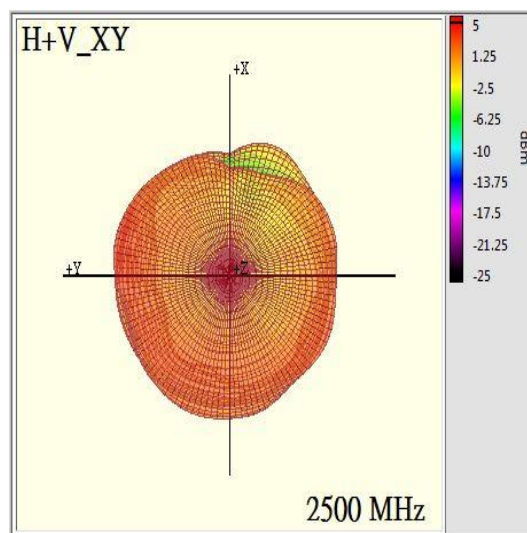
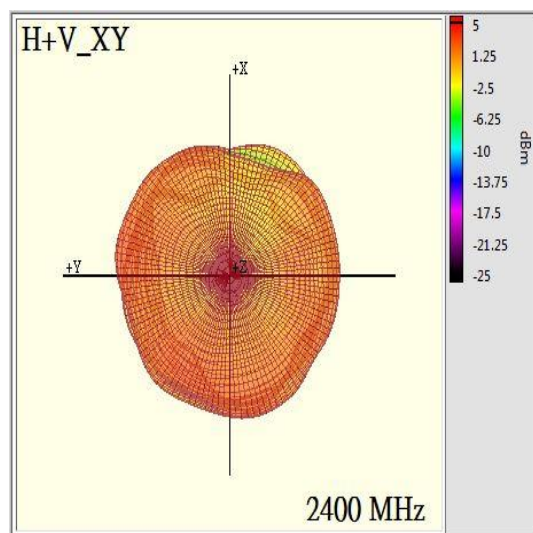
2.1 S Parameter Test

S.W.R. Test Data



3. Antenna Gain Test

3.1 Antenna Radiation Pattern

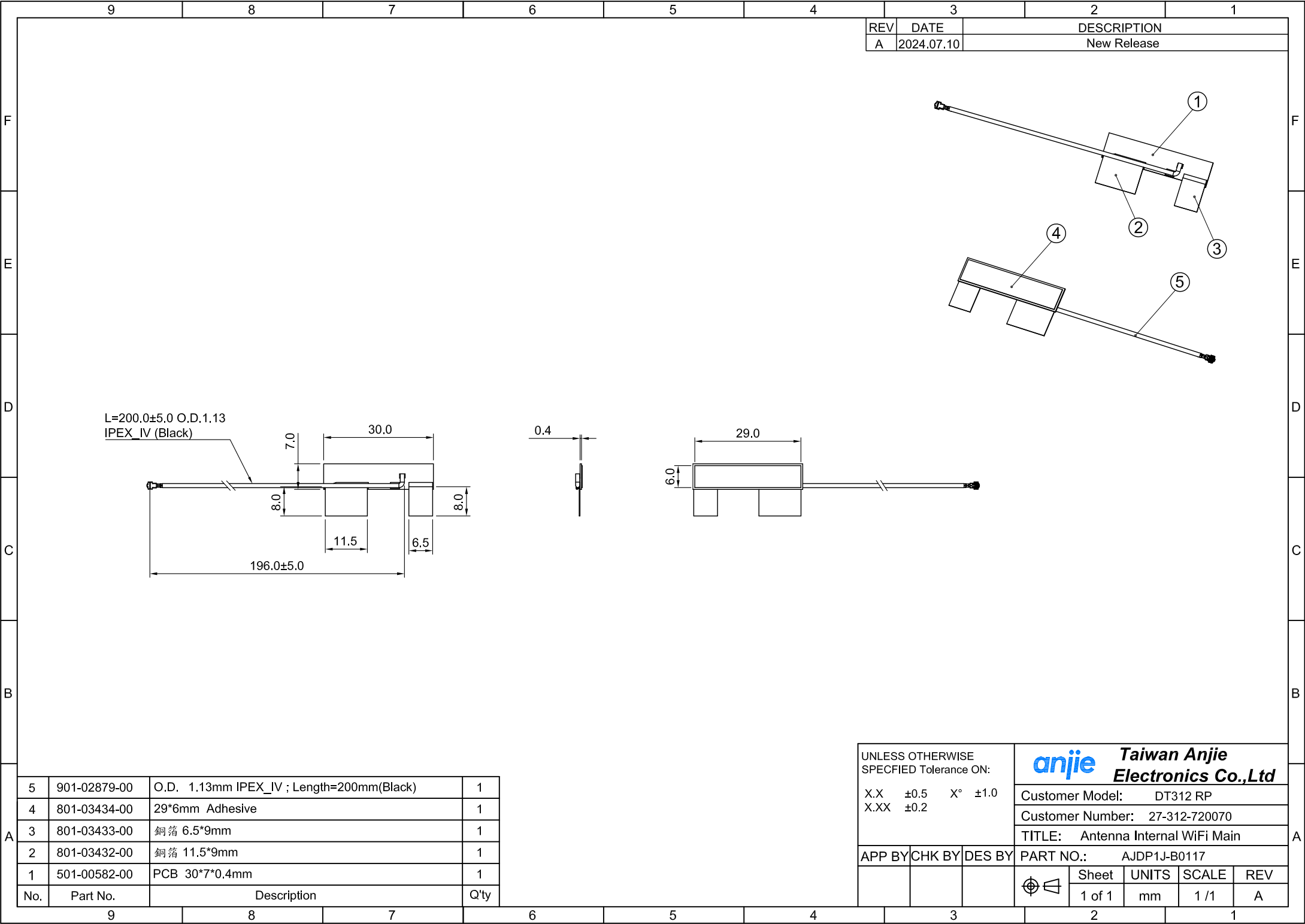


3. Antenna Gain Test

3.2 Gain and Efficiency Test Data

Frequency Band (MHz)		Efficiency (dB)	Peak Gain (dBi)
802.11b/g/n	2400	-3.4	1.8
	2450	-3.3	1.8
	2500	-3.3	1.8
WiFi 6 802.11a/ac/ax	5150	-2.3	2.9
	5250	-2.4	2.6
	5350	-2.5	2.4
	5470	-2.7	2.1
	5600	-2.4	2.5
	5725	-1.5	2.2
	5785	-1.7	2.9
	5800	-1.9	2.8
	5850	-2.0	2.9
WiFi 6E 802.11ac/ax	5925	-2.4	2.5
	6175	-2.6	2.4
	6425	-3.2	2.7
	6525	-3.2	2.6
	6700	-2.9	2.8
	6875	-3.1	2.5
	7000	-3.1	1.7
	7125	-2.9	2.2

4. Mechanical Drawing / Dimension / Layout



REV	DATE	DESCRIPTION
A	2024.07.10	New Release

5	901-02879-00	O.D. 1.13mm IPEX_IV ; Length=200mm(Black)	1
4	801-03434-00	29*6mm Adhesive	1
3	801-03433-00	銅箔 6.5*9mm	1
2	801-03432-00	銅箔 11.5*9mm	1
1	501-00582-00	PCB 30*7*0.4mm	1
No.	Part No.	Description	Q'ty

UNLESS OTHERWISE SPECIFIED Tolerance ON: X.X ±0.5 X° ±1.0 X.XX ±0.2			anjie Taiwan Anjie Electronics Co.,Ltd				
			Customer Model: DT312 RP				
			Customer Number: 27-312-720070				
			TITLE: Antenna Internal WiFi Main				
APP BY	CHK BY	DES BY	PART NO.: AJDP1J-B0117				
				Sheet	UNITS	SCALE	REV
				1 of 1	mm	1 / 1	A