

DJI Antenna Datasheet

ZV300-SDR antenna

2024-06-12



Revision history

Version	Change notes	Modifier	Date
V1.0	First	Riyao.guo	2024.06.12

DJI Antenna Datasheet

1、 Basic Specifications

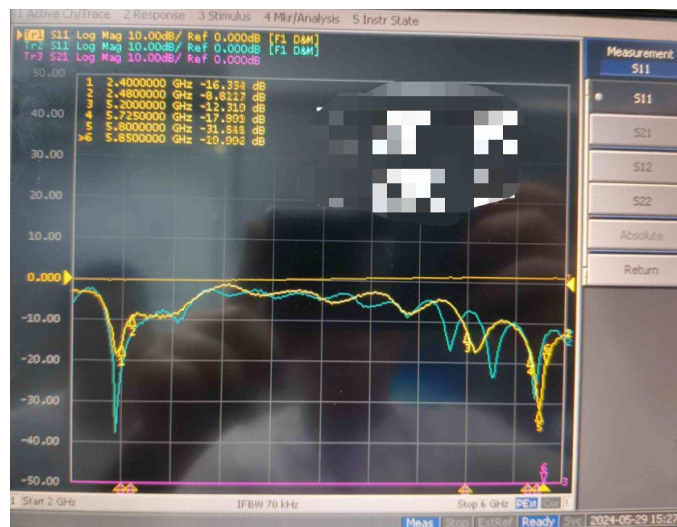
No.	Specification	Descriptions	Notes	
1	Antenna Name	ZV300 Ant		
2	Brand	DJI		
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz; 5.725~5.85GHz;		
4	Connector Type	Ipex-1		
5	Impedance	50ohm		
6	Gain	$\geq 1.5\text{dBi}$		
7	Efficiency	$\geq 45\%$		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional and Directional Radiation		
11	Model	ZV300 FPC antenna		
12	Antenna type	PCB and FPC pattern		
13	Manufacturer	Kunshan Innowave Communication Technology Co., Ltd. Address: No. 1689, Zizhu Road, Yushan Town, Kunshan City, Jiangsu		

		Province		
--	--	----------	--	--

2、 Antenna Return Loss/VSWR

2.1 SDR antenna return loss

Ant0 (blue) and Ant1 (Yellow)



Ant2 (blue) and Ant3 (Yellow)



3、 Antenna Gain

校准日期： 2024/05/16

测试方法： 近场转台测试

测试暗室型号： Satimo SG24

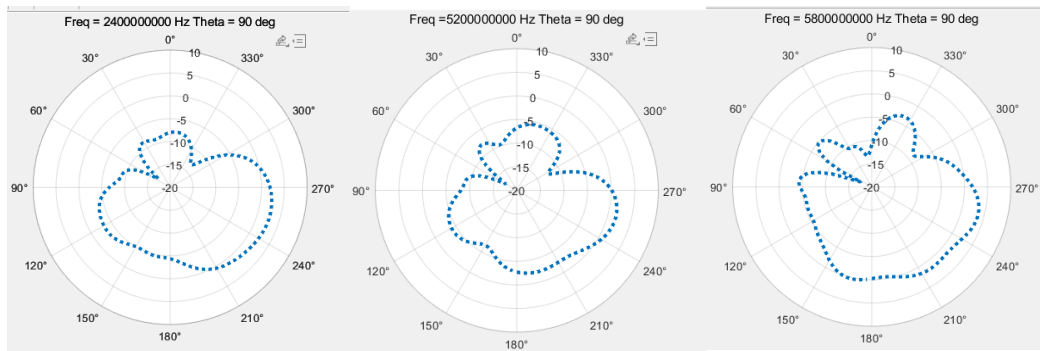
天线摆放位置参考坐标系：

Please refer to antenna location.

3.1 SDR

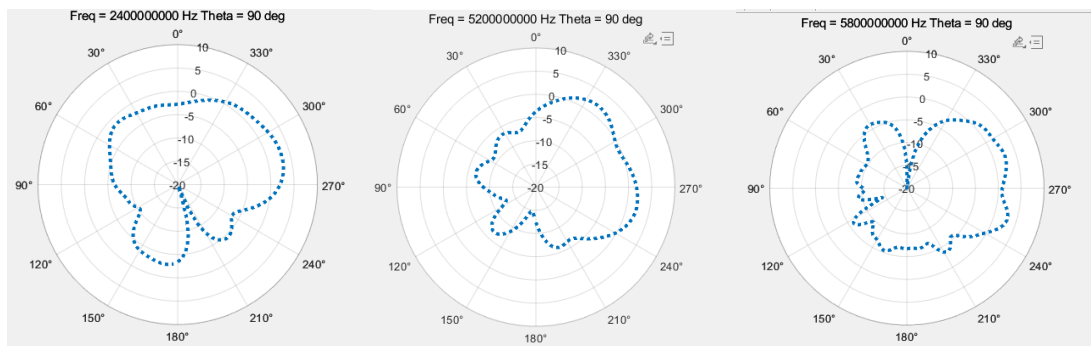
Ant 2

频点/GHz	效率	增益/dBi
2.4	58%	3.00
2.45	54%	2.15
2.48	55%	2.85
5.2	54%	3.50
5.725	57%	3.65
5.8	59%	4.00
5.85	58%	3.88



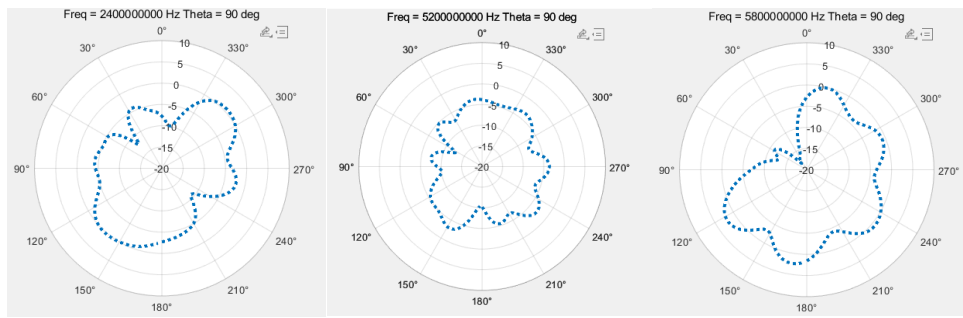
Ant 3

频点/GHz	效率	增益/dBi
2.4	67%	3.00
2.45	67%	2.35
2.48	68%	2.89
5.2	48%	3.50
5.725	64%	3.89
5.8	66%	4.00
5.85	63%	3.44



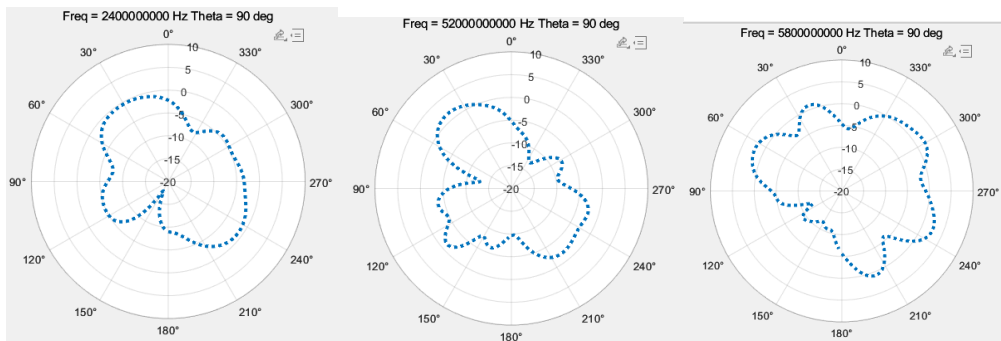
Ant 0 (右外置全向天线)

频点/GHz	效率	增益/dBi
2.4	64%	2.00
2.45	58%	1.85
2.48	57%	2.00
5.2	45%	1.50
5.725	59%	2.42
5.8	63%	2.50
5.85	59%	2.50



Ant 1 (左外置全向天线)

频点/GHz	效率	增益/dBi
2.4	66%	2.00
2.45	59%	1.88
2.48	59%	1.56
5.2	53%	1.50
5.725	67%	2.50
5.8	71%	2.50
5.85	67%	2.45



4、 Structure drawing

5.1 GFSK antenna

Model:ZV300 GFSK antenna

Antenna type: FPC pattern

Name of the antenna manufacturer: INPAQTECHNOLOGY(SUZHOU)
CO., LTD.

Address of the antenna manufacturer: No.802 kexingkexueyuan, Nanshan
District, Shenzhen, Guangdong Province



Website of the antenna manufacturer: www.inpaqgp.com

频点/GHz	效率	增益/dBi
2.4	66%	2.7

