

DJI Antenna Datasheet

WA345 SRD Antenna

2024-04-20

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	WA345 Ant 0/1		
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	1 dBi@2.4~2.483GHz srd 1 dBi@5.15~5.25GHz srd 2dBi@5.725~5.875GHz srd		
7	Efficiency	$\geq 40\%$ SRD		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	Dipole		

2、 Antenna Return Loss/VSWR

2.1 SRD antenna return loss

Freq/GHz	2.4	2.48	5.2	5.725	5.85
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S11/dB	-8.6	-10.3	-15	-11.3	-12
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3、 Antenna Gain

Calibration date: 2024/04/20

Test method: Near field turntable test

Test darkroom model: Satimo SG24 antenna placement

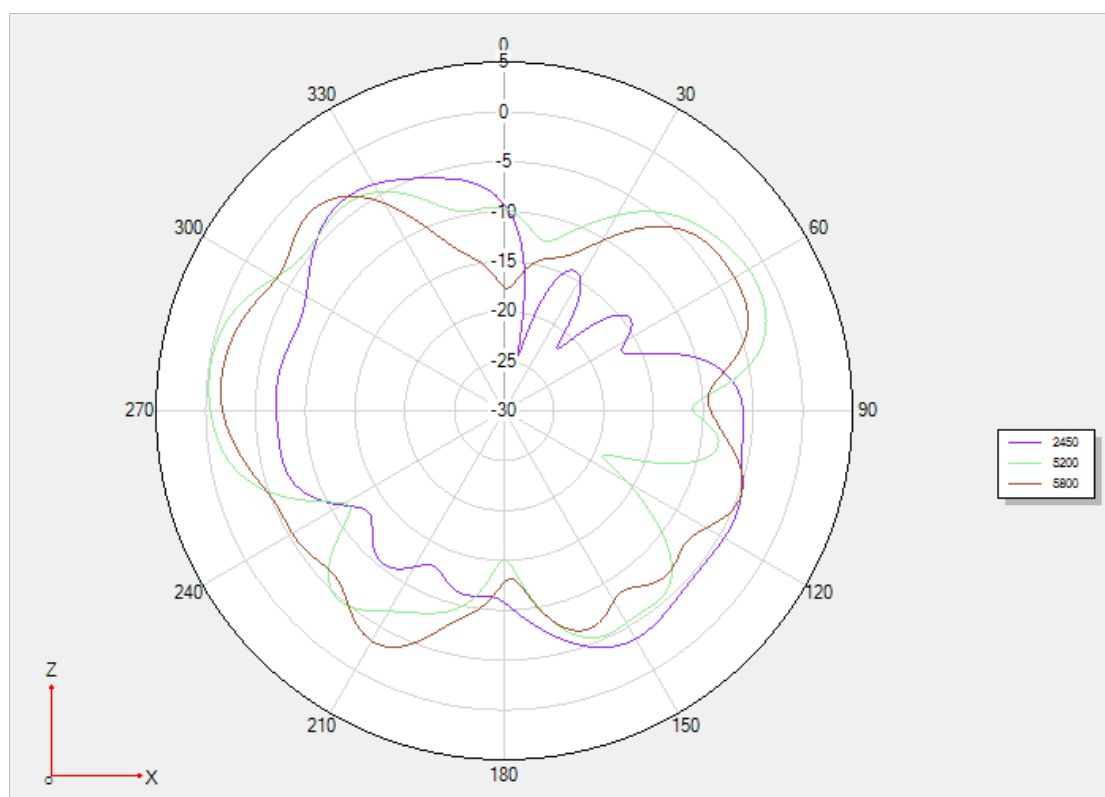
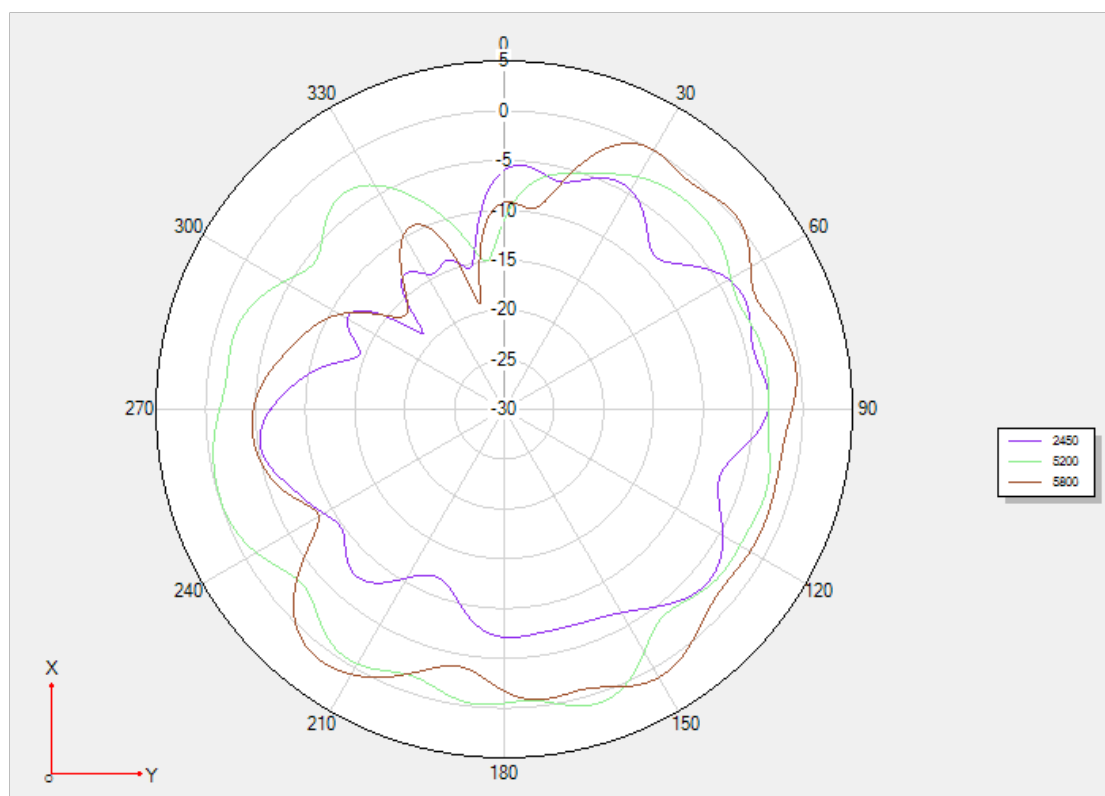
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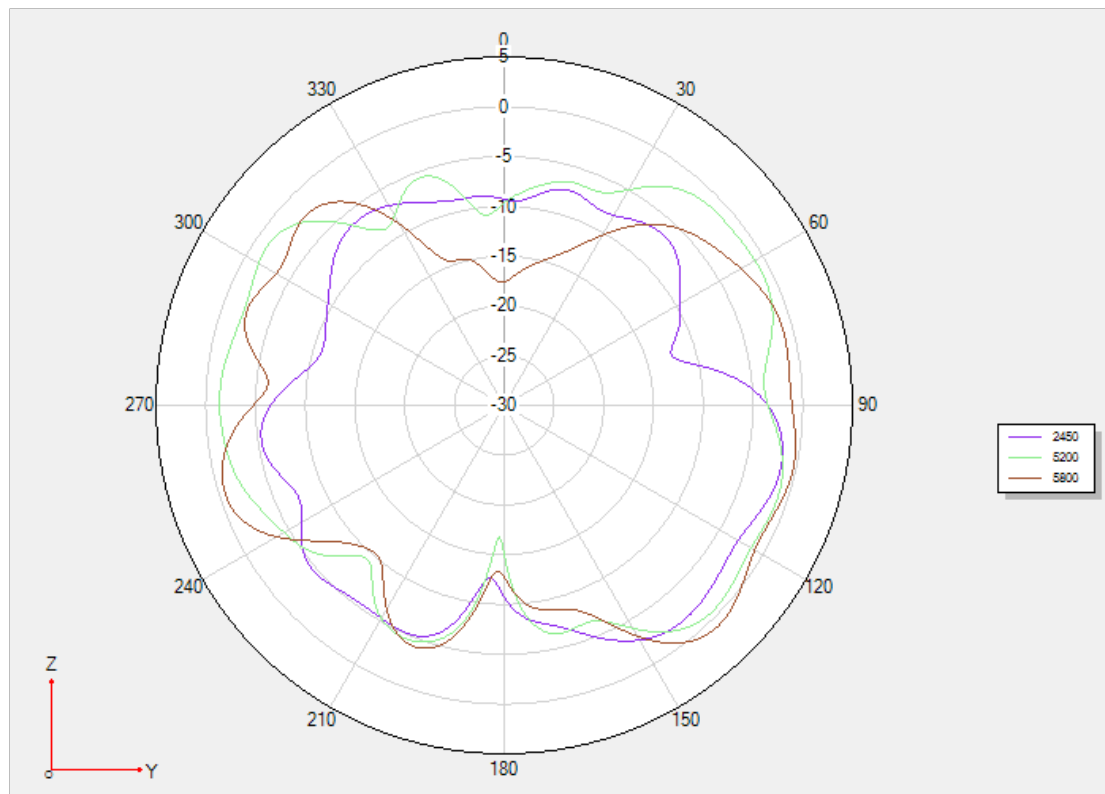
3.1 srd

Frequency	E Total. dB(dB)	Efficiency(%)
2400MHz	1.1	41
2440MHz	0.9	45
2480MHz	1	43
5150MHz	1	45
5205MHz	1.1	50
5250MHz	1.1	55
5730MHz	2.1	52
5800MHz	2	53
5850MHz	2	54

4、 Radiation Pattern

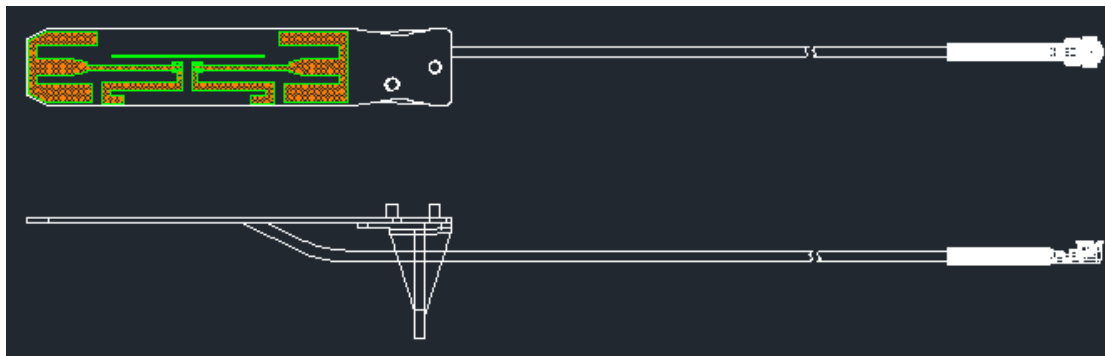
4.1 srd antenna 2.4/5.2/5.8G radiation pattern





5、 Structure drawing

5.1 SRD antenna



Name of the antenna manufacturer: INPAQ Technology Suzhou CO.Ltd

Address of the antenna manufacturer: No.5 Chunqiu Road, Xiangcheng

Dsitric,Suzhou, Jiangsu Province

Website of the antenna manufacturer: www.inpaq.com

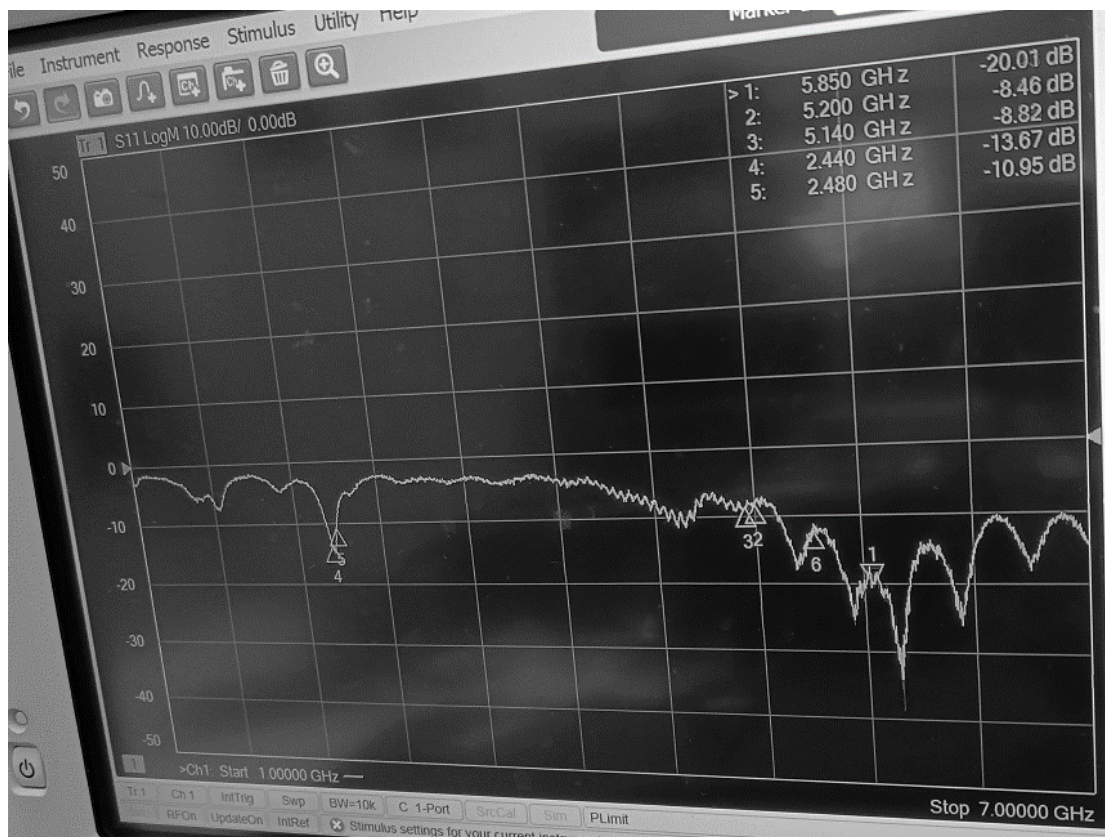
6、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	WA345 Ant 2/5		
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	1 dBi@2.4~2.483GHz srd 0.5 dBi@5.15~5.25GHz srd 1.5dBi@5.725~5.875GHz srd		
7	Efficiency	$\geq 40\%$ SRD		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	Dipole		

7、 Antenna Return Loss/VSWR

2.1 SRD antenna return loss

Freq/GHz	2.4	2.48	5.2	5.725	5.85
S11/dB	-13	-11	-8.3	-15.3	-20



8、 Antenna Gain

校准日期： 2024/04/20

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： Calibration date: 2024/04/20

Test method: Near field turntable test

Test darkroom model: Satimo SG24 antenna

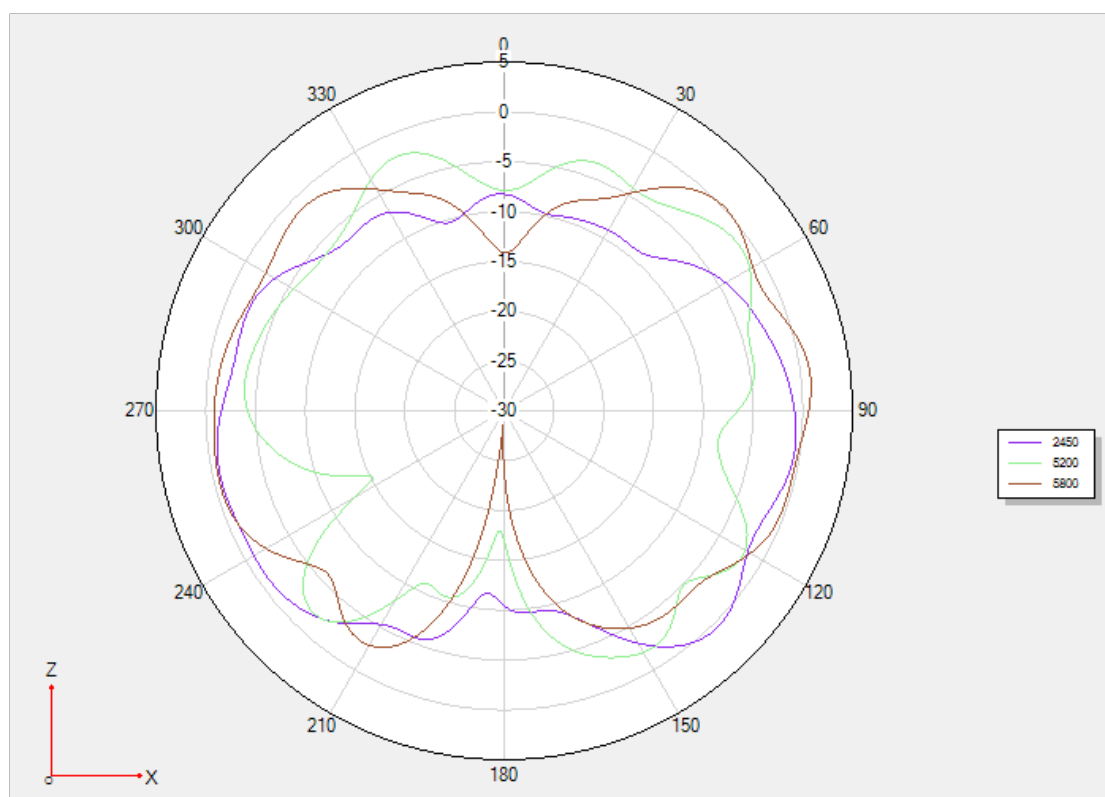
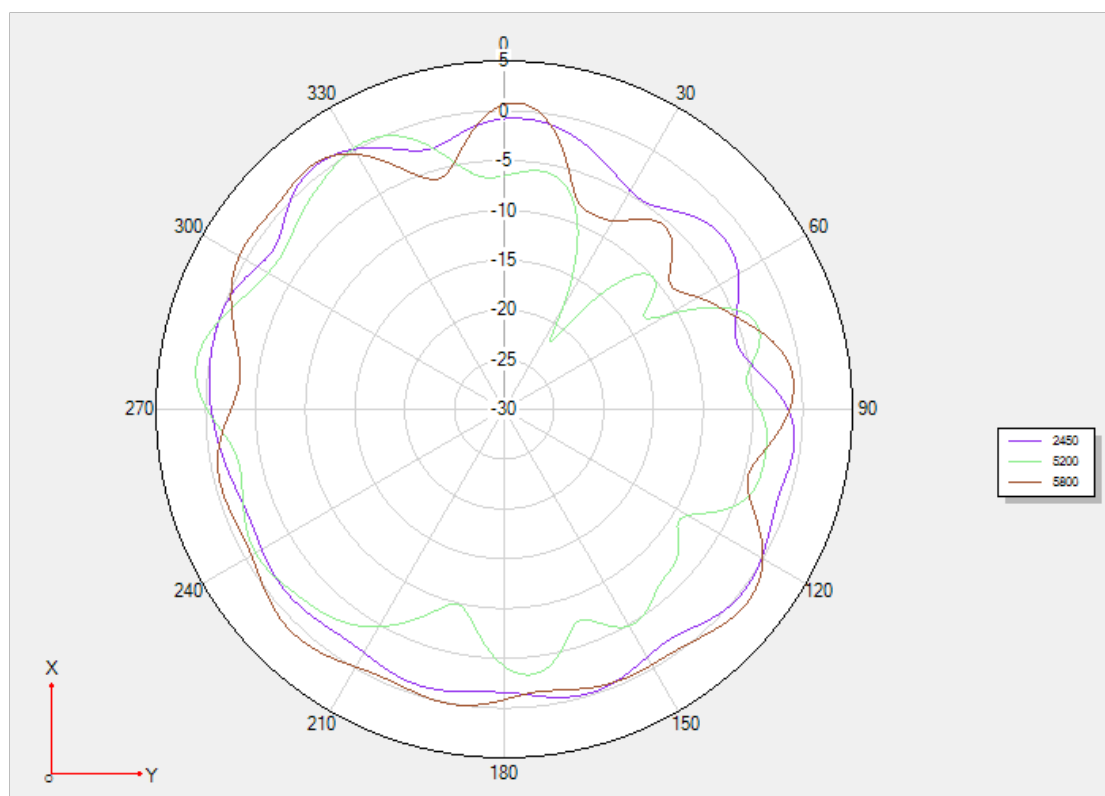
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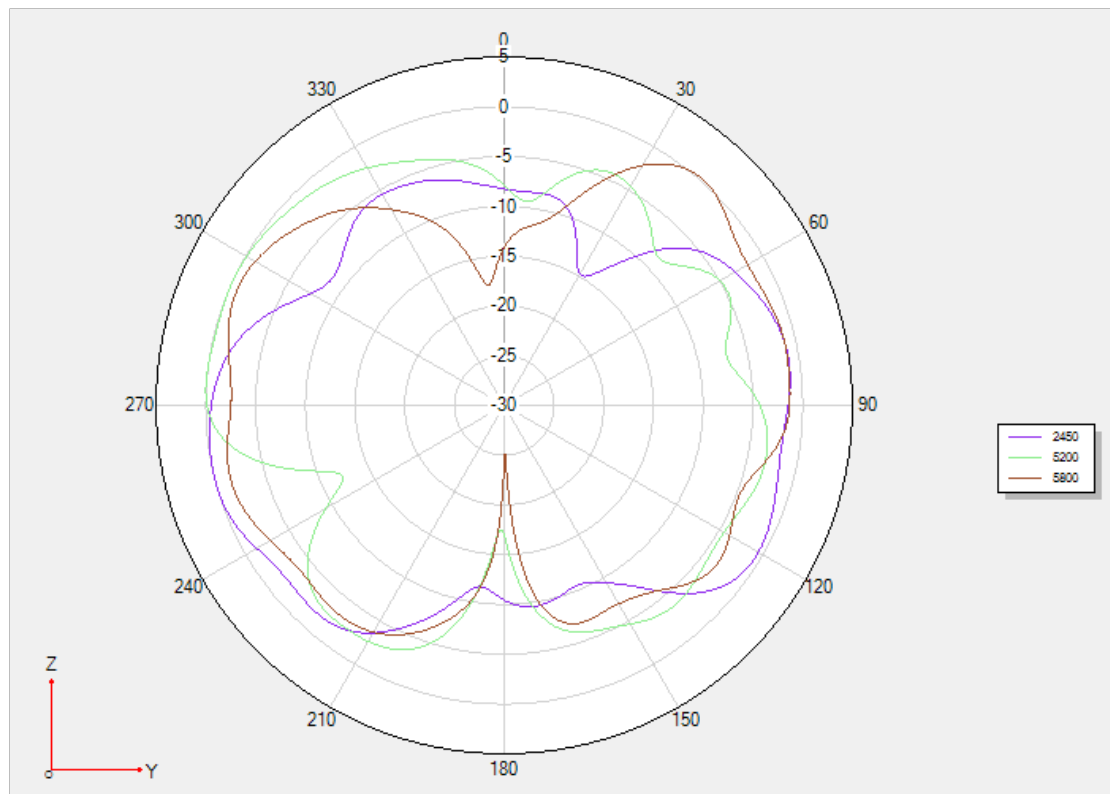
3.1 srd

Frequency	E Total. dB(dB)	Efficiency(%)
2400MHz	1.1	51
2440MHz	1.0	60
2480MHz	1.0	54
5150MHz	0.4	42
5205MHz	0.5	43
5250MHz	0.5	45
5730MHz	1.5	60
5800MHz	1.5	65
5850MHz	1.4	63

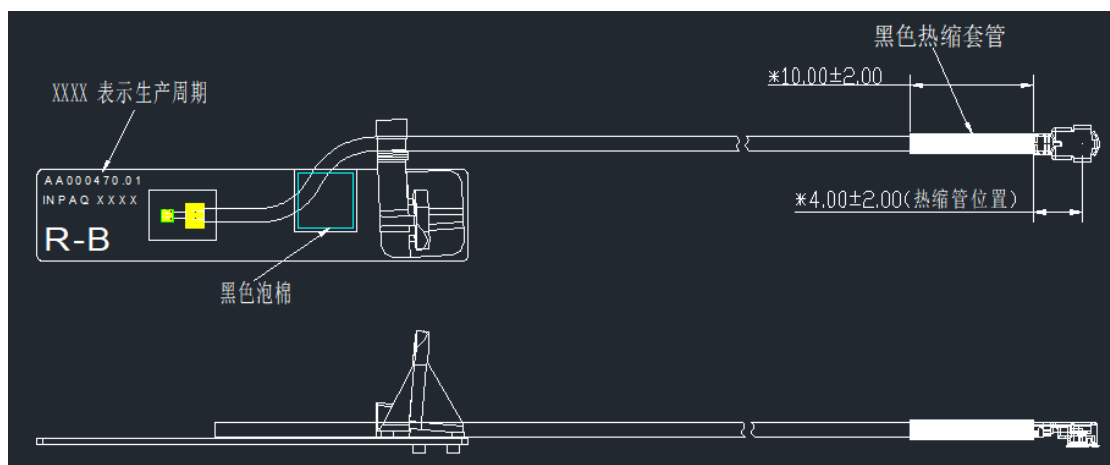
9、 Radiation Pattern

4.1 srd antenna 2.4/5.2/5.8G radiation pattern





10、 Structure drawing



Name of the antenna manufacturer: INPAQ Technology Suzhou CO.Ltd

Address of the antenna manufacturer: No.5 Chunqiu Road, Xiangcheng
District, Suzhou, Jiangsu Province

Website of the antenna manufacturer: www.inpaq.com



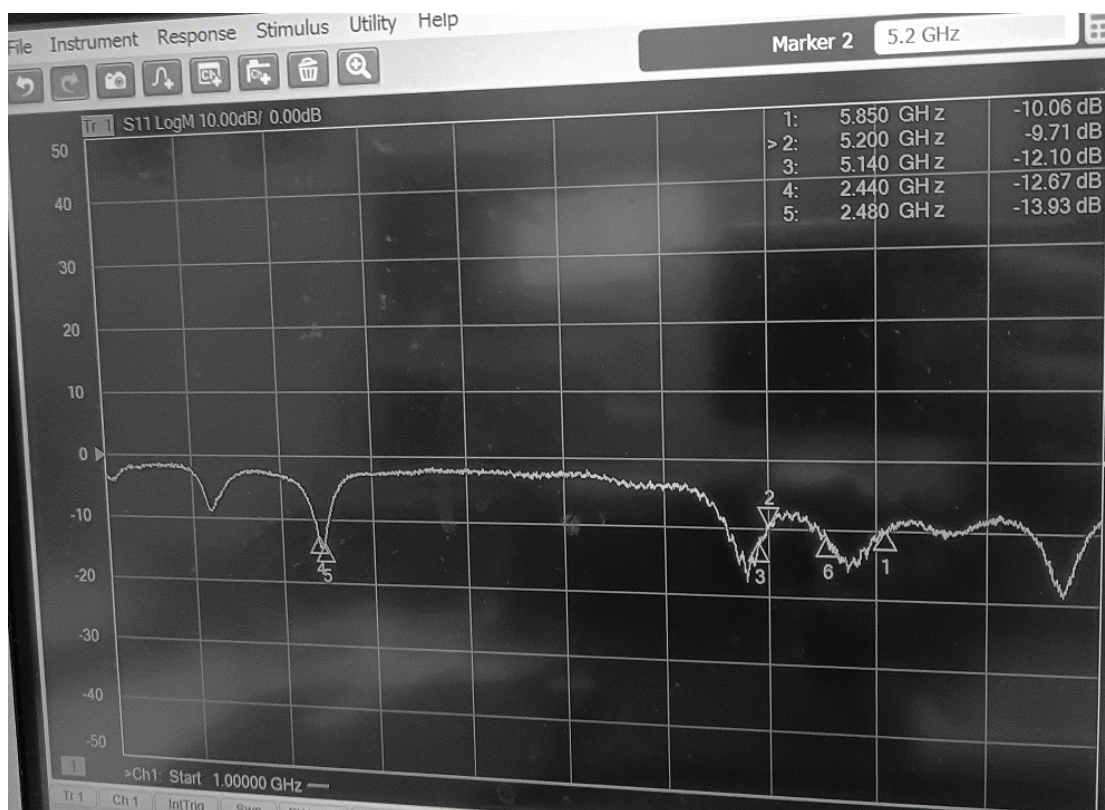
11、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	WA345 Ant 6/7		
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	1.5 dBi@2.4~2.483GHz srd 2.5 dBi@5.15~5.25GHz srd 3 dBi@5.725~5.875GHz srd		
7	Efficiency	$\geq 45\%$ SRD		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	Dipole		

12、 Antenna Return Loss/VSWR

2.1 SRD antenna return loss

Freq/GHz	2.4	2.48	5.2	5.725	5.85
S11/dB	-12	-14	-9.8	-14	-10



13、Antenna Gain

calibration date: 2024/04/20

Test method: Near field turntable test

Test darkroom model: Satimo SG24 antenna

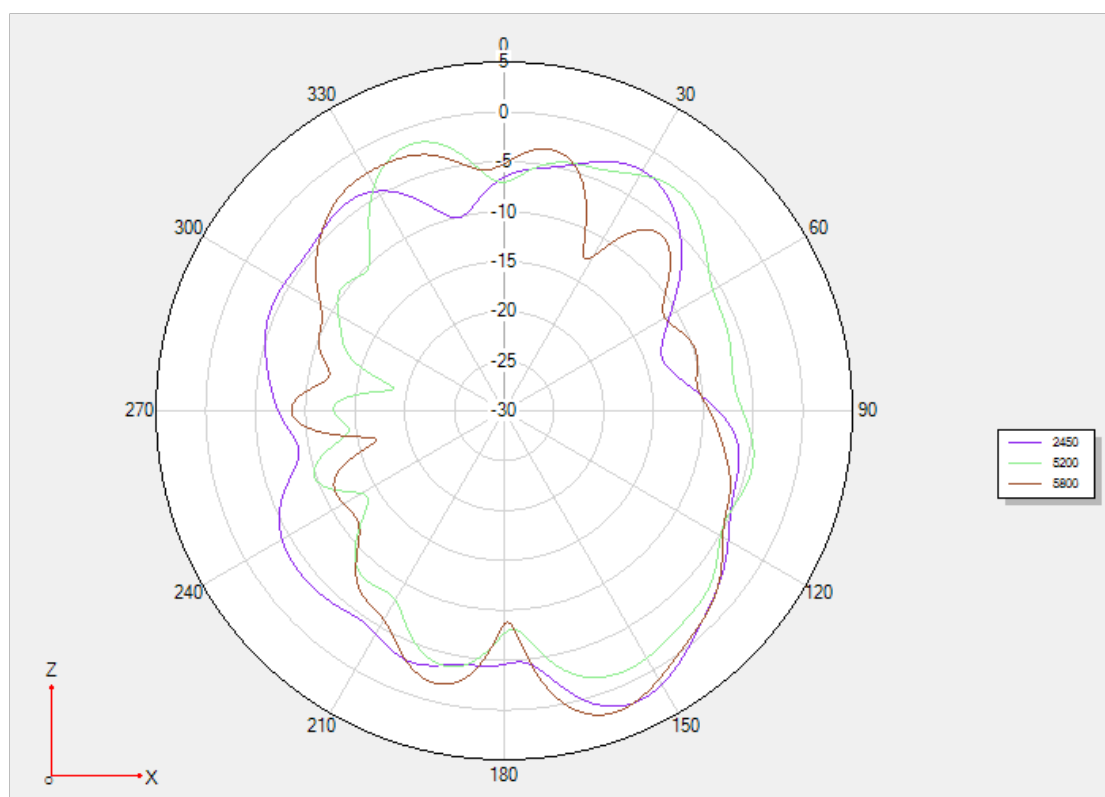
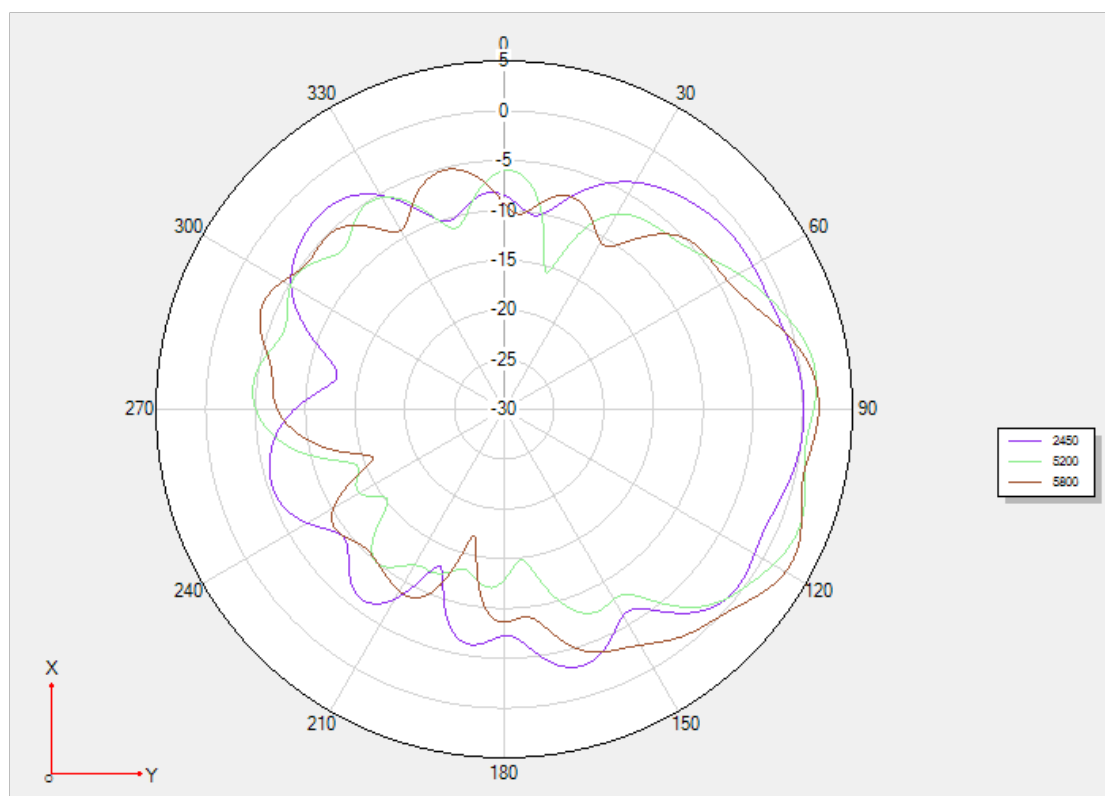
placement reference coordinate system:

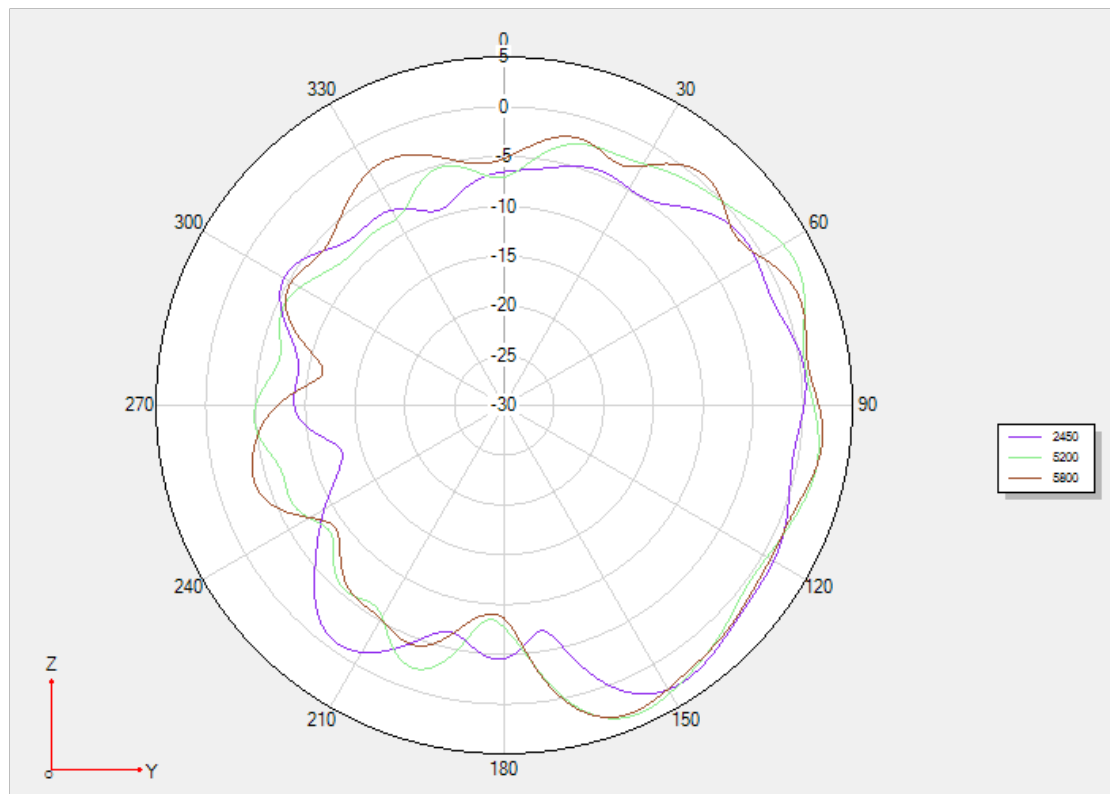
3.1 srd

Frequency	E Total. dB(dB)	Efficiency(%)
2400MHz	1.5	52
2440MHz	1.3	51
2480MHz	1.2	46
5150MHz	2.5	40
5205MHz	2.4	50
5250MHz	2.5	52
5730MHz	3.0	65
5800MHz	3.0	55
5850MHz	2.6	50

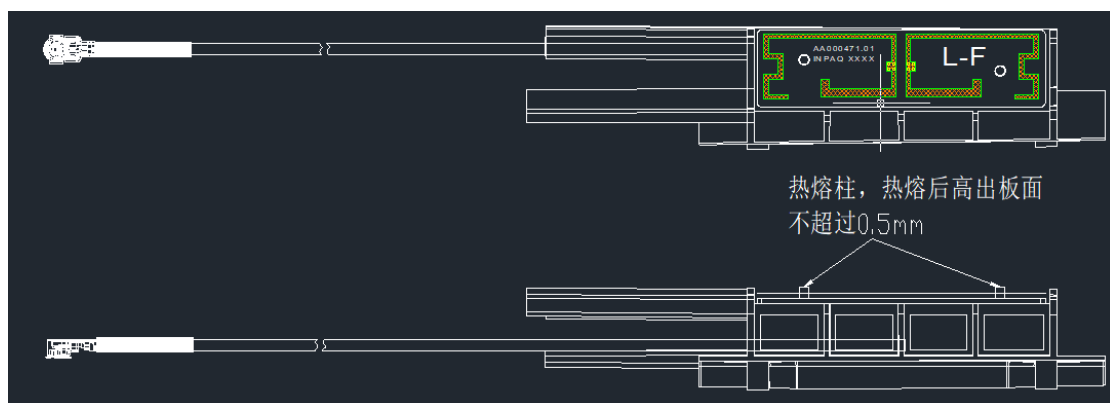
14、 Radiation Pattern

4.1 srd antenna 2.4/5.2/5.8G radiation pattern





15、 Structure drawing



Name of the antenna manufacturer: INPAQ Technology Suzhou CO.Ltd

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District, Suzhou, Jiangsu Province

Website of the antenna manufacturer: www.inpaq.com

16、 Basic Specifications



No.	Specification	Descriptions	Notes	
1	Antenna Name	WA345 Ant 3/4		
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	1 dBi@2.4~2.483GHz srd 2.5 dBi@5.15~5.25GHz srd 3 dBi@5.725~5.875GHz srd		
7	Efficiency	$\geq 50\%$ SRD		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	Dipole		

17、 Antenna Return Loss/VSWR

2.1 SRD antenna return loss

Freq/GHz	2.4	2.48	5.2	5.725	5.85
S11/dB	-12	-11	-9.3	-14	-7.3



18、 Antenna Gain

Calibration date: 2024/04/20

Test method: Near field turntable test

Test darkroom model: Satimo SG24 antenna

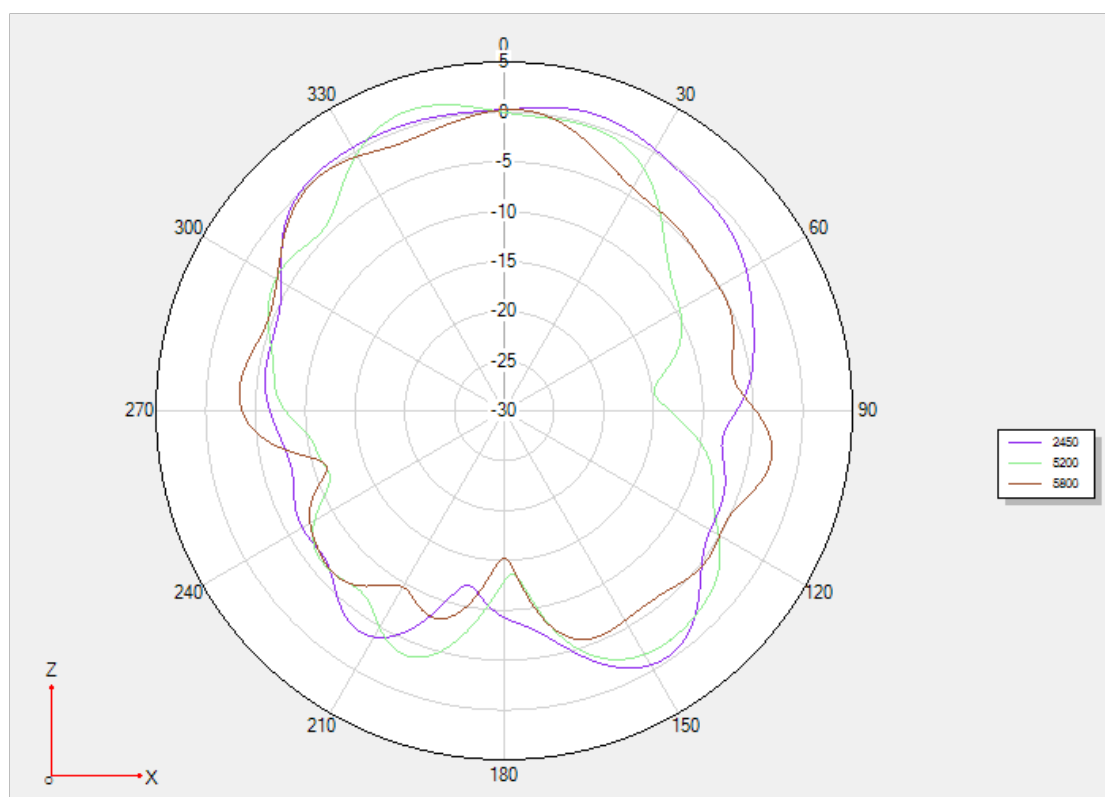
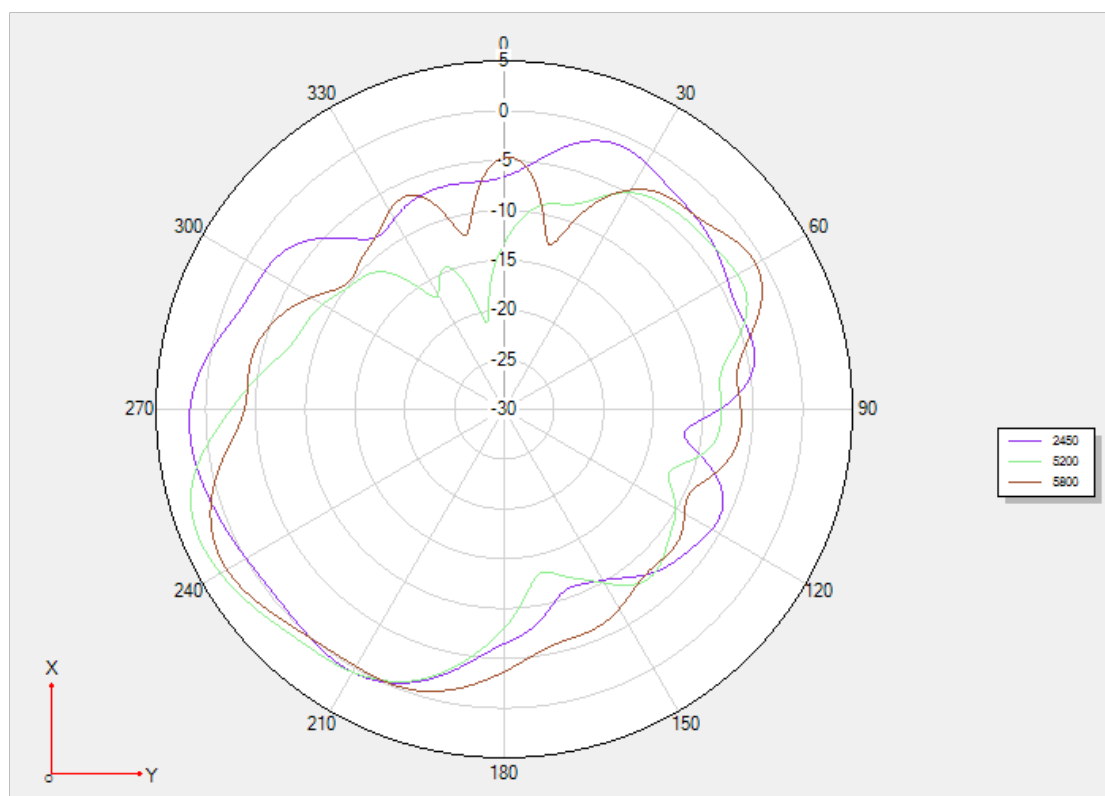
placement reference coordinate system:

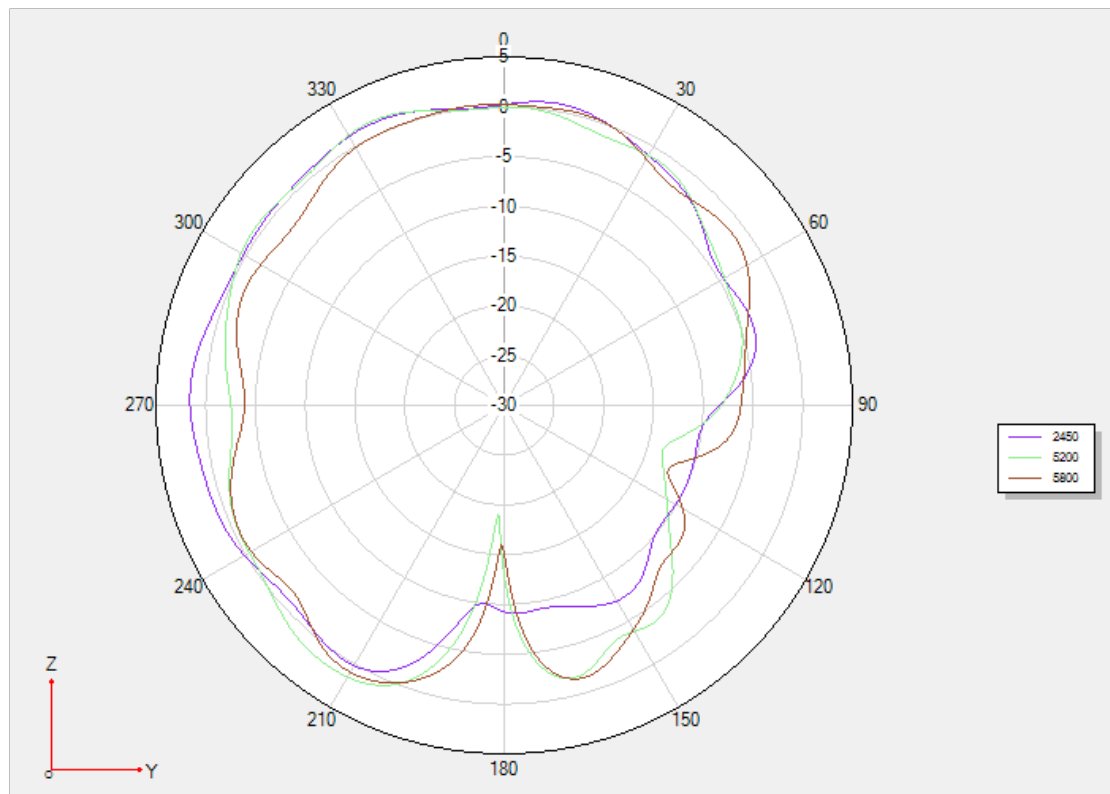
3.1 srd

Frequency	E Total. dB(dB)	Efficiency()
2400MHz	1.0	54
2440MHz	1.1	60
2480MHz	1.1	58
5150MHz	2.5	60
5205MHz	2.4	62
5250MHz	2.4	60
5730MHz	2.8	62
5800MHz	3	63
5850MHz	2.6	60

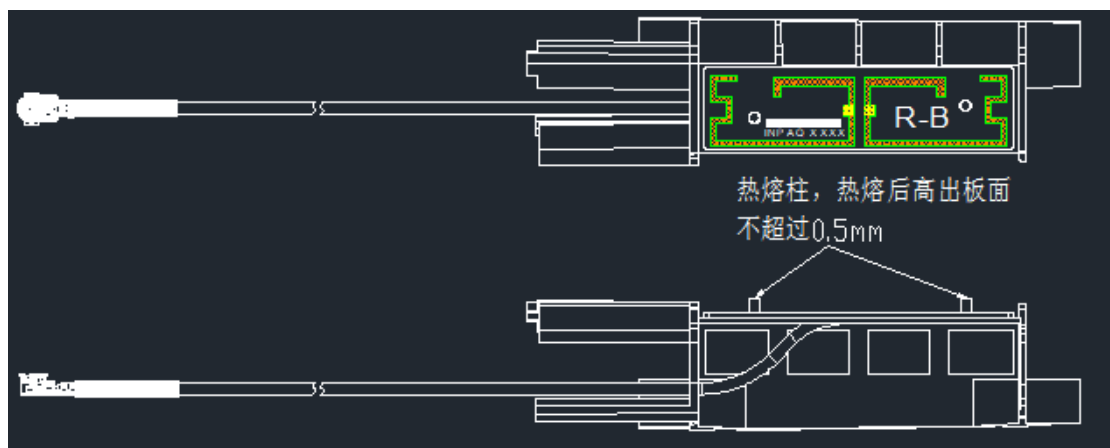
19、 Radiation Pattern

4.1 srd antenna 2.4/5.2/5.8G radiation pattern





20、 Structure drawing



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