

WM630 SDR Ant Datasheet

DJI Confidential

ANT Engineer:

Freeman.deng(SDR)

Antenna Datasheet

1 Basic Specifications

No.	Specification	Descriptions	Notes
1	Antenna Name	WM630 SDR Ant	Only sale for DJI
2	Brand	DJI	
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz; 5.725~5.85GHz;	
4	Connector Type	SMA	
5	Impedance	50ohm	
6	Gain	2dBi@2.4~2.483GHz 2dBi @5.15~5.25GHz; 2.5dBi @5.725~5.85GHz	
7	Efficiency	≥50%	
8	VSWR	≤2.5	
9	Polarization type	Linear	
10	3dB Beamwidth	Omnidirectional	
11	Manufacturer	Shenzhen ZTX Communication Technology Co., LTD. No.34 Shilong Road, Bao'an District, Shenzhen, China	

2 Antenna Return Loss/VSWR



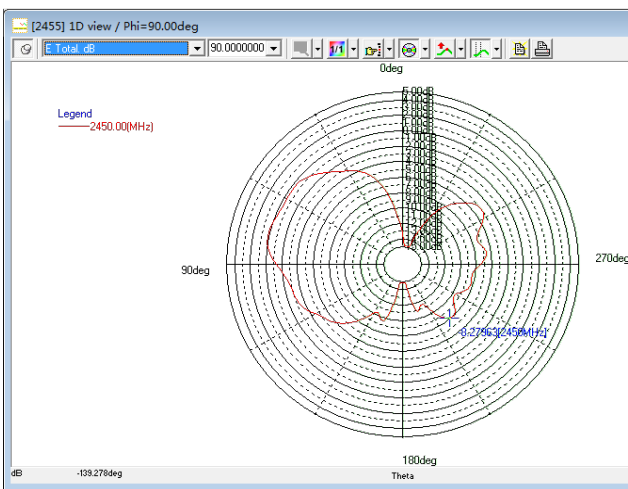
3 Antenna Gain

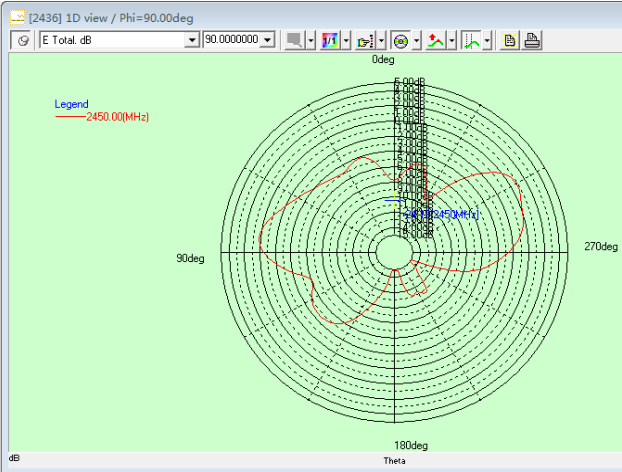
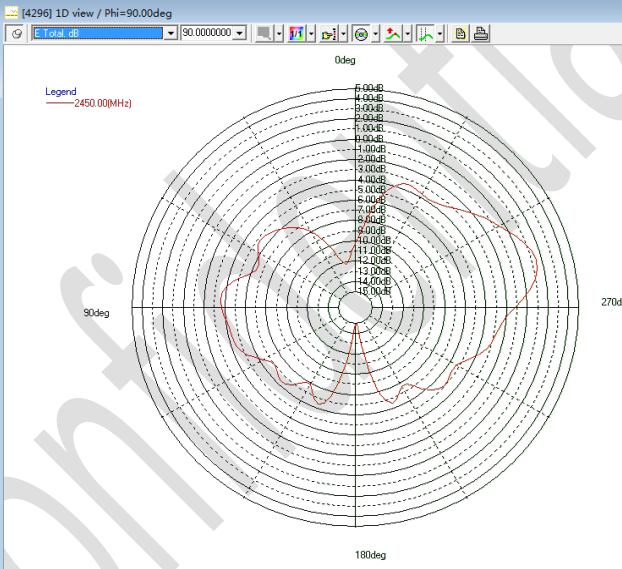
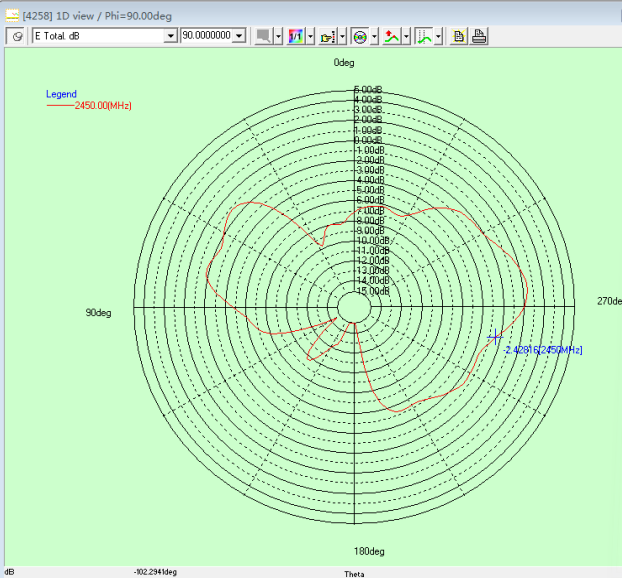
Frequency	Efficiency	Gain(dBi)
2400MHz	58%	1.92143
2410MHz	59%	2.01237
2420MHz	54%	1.86028
2450MHz	59%	1.90777
2470MHz	52%	1.96167
2480MHz	53%	1.87167

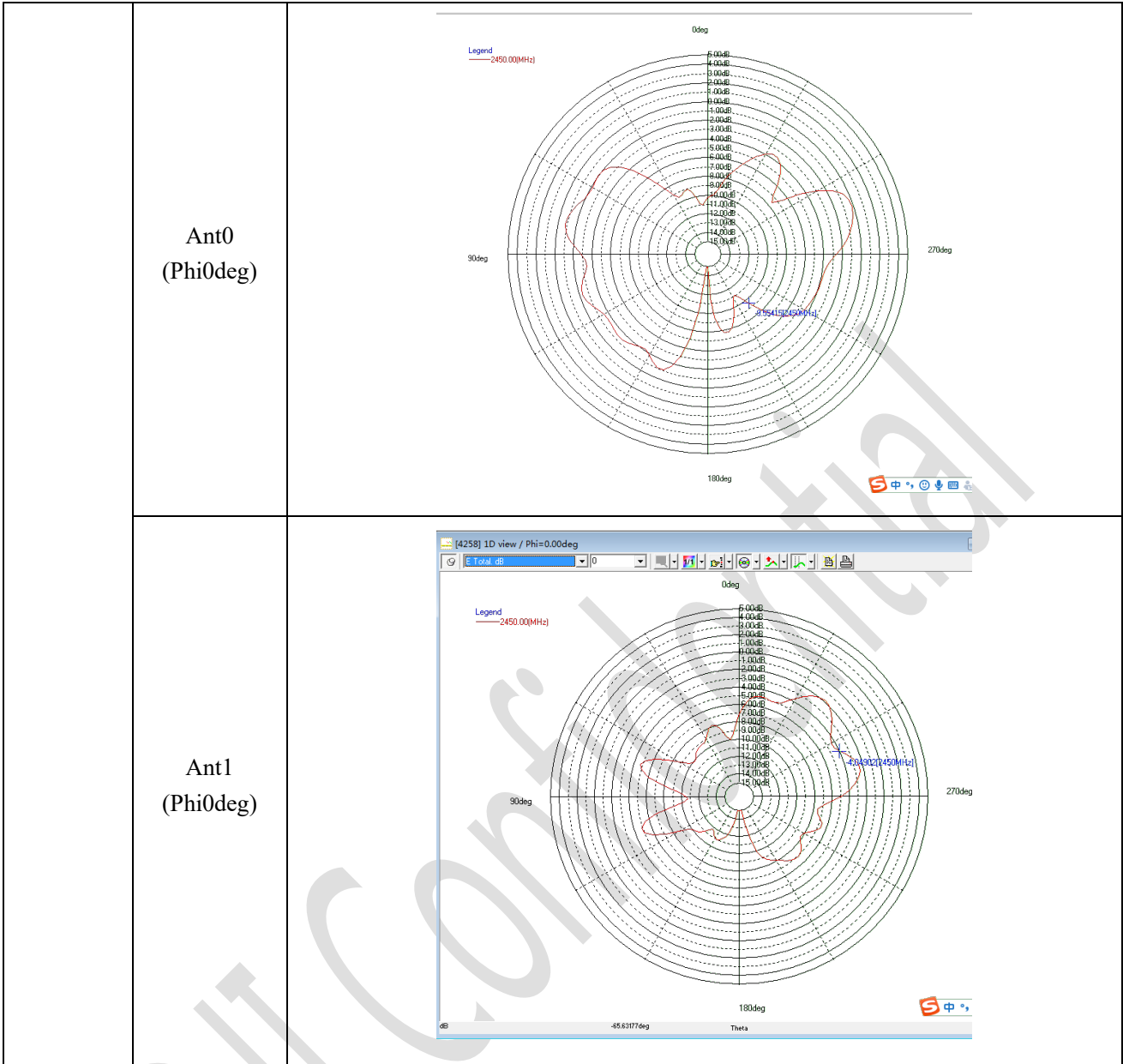
Frequency	Efficiency	Gain(dBi)
5145MHz	33%	1.72534
5175MHz	35%	1.84122
5205MHz	32%	2.04267
5235MHz	28%	1.54286
5265MHz	31%	1.60078

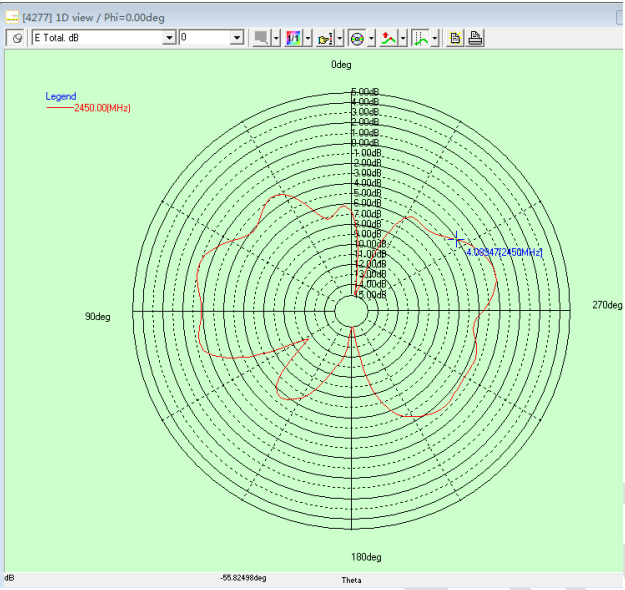
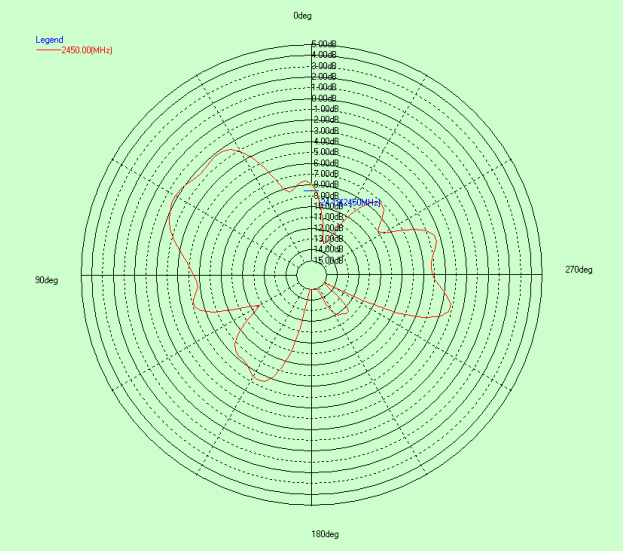
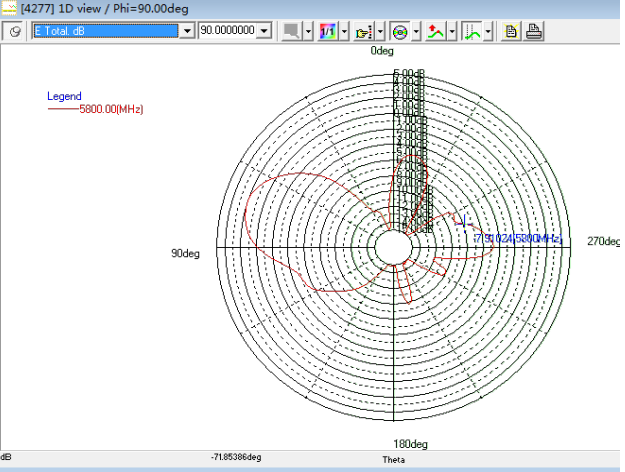
Frequency	Efficiency	Gain(dBi)
5725MHz	57%	2.55116
5775MHz	59%	2.49269
5800MHz	56%	2.43893
5825MHz	59%	2.42121
5850MHz	54%	2.43672

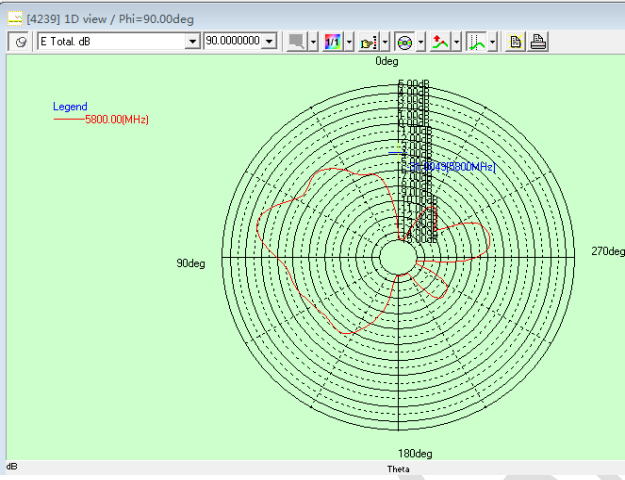
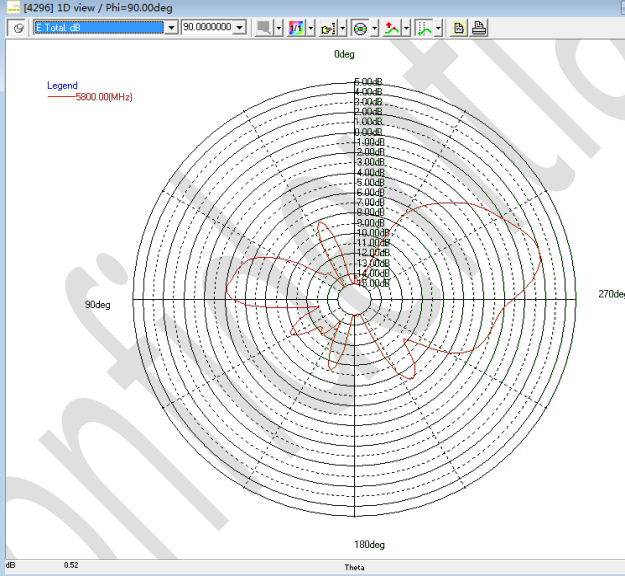
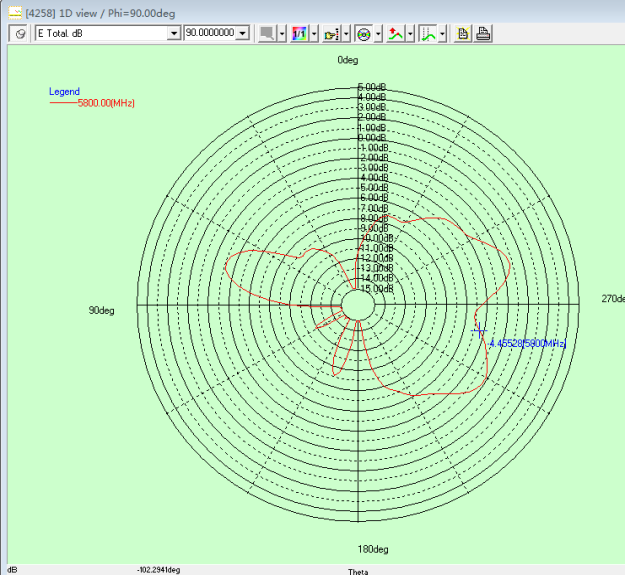
4 Radiation Pattern

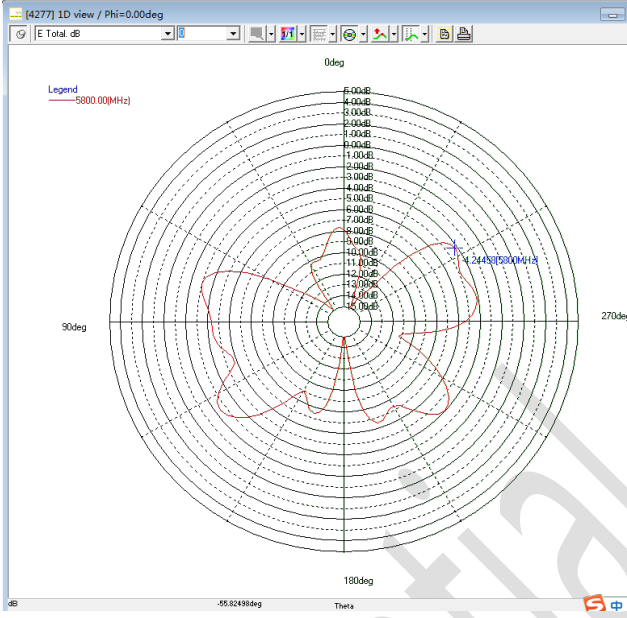
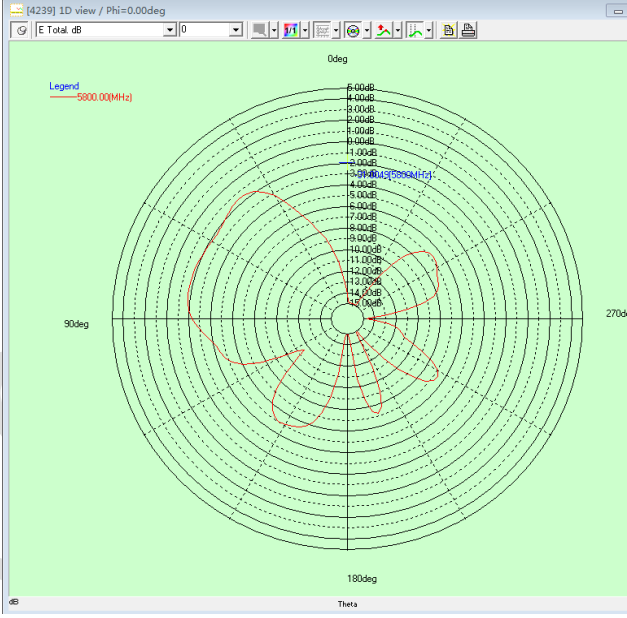
Frequency	Tangent	Direction
2450MHz	Ant0 (Phi90deg)	

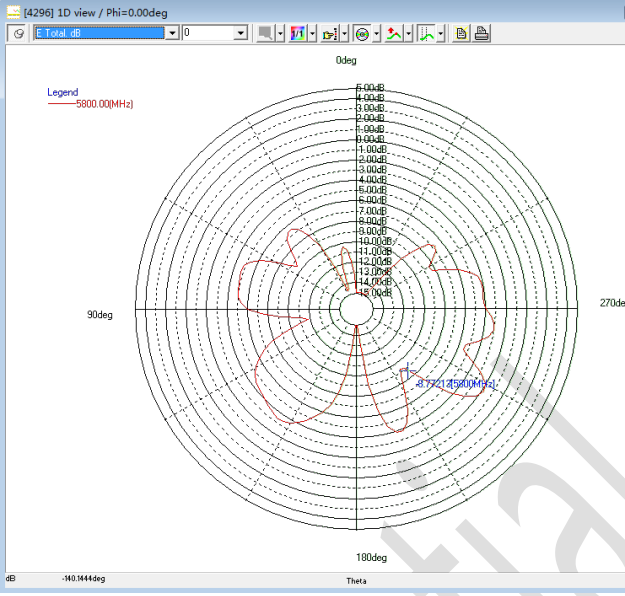
<p>Ant1(Phi90deg)</p>	 <p>[2436] 1D view / Phi=90.00deg E Total: dB 90.0000000 Legend: 2450.00(MHz) Theta: 0deg, 90deg, 180deg, 270deg</p>
<p>Ant2(Phi90deg)</p>	 <p>[4296] 1D view / Phi=90.00deg E Total: dB 90.0000000 Legend: 2450.00(MHz) Theta: 0deg, 90deg, 180deg, 270deg</p>
<p>Ant3(Phi90deg)</p>	 <p>[4258] 1D view / Phi=90.00deg E Total: dB 90.0000000 Legend: 2450.00(MHz) Theta: 0deg, 90deg, 180deg, 270deg</p>



	<p>Ant2 (Phi0deg)</p>	
<p>2450MHz</p>	<p>Ant3 (Phi0deg)</p>	
<p>5800MHz</p>	<p>Ant0 (Phi90deg)</p>	

<p>Ant1(Phi90 deg)</p>	
<p>Ant2(Phi90 deg)</p>	
<p>Ant3(Phi90 deg)</p>	

<p>Ant0(Phi0deg)</p>	 <p>Legend: 5800.00(MHz)</p> <p>0deg</p> <p>15.00dB</p> <p>14.00dB</p> <p>13.00dB</p> <p>12.00dB</p> <p>11.00dB</p> <p>10.00dB</p> <p>9.00dB</p> <p>8.00dB</p> <p>7.00dB</p> <p>6.00dB</p> <p>5.00dB</p> <p>4.00dB</p> <p>3.00dB</p> <p>2.00dB</p> <p>1.00dB</p> <p>0.00dB</p> <p>90deg</p> <p>270deg</p> <p>180deg</p> <p>Theta</p> <p>dB</p> <p>55.82498deg</p>
<p>Ant1(Phi0deg)</p>	 <p>Legend: 5800.00(MHz)</p> <p>0deg</p> <p>15.00dB</p> <p>14.00dB</p> <p>13.00dB</p> <p>12.00dB</p> <p>11.00dB</p> <p>10.00dB</p> <p>9.00dB</p> <p>8.00dB</p> <p>7.00dB</p> <p>6.00dB</p> <p>5.00dB</p> <p>4.00dB</p> <p>3.00dB</p> <p>2.00dB</p> <p>1.00dB</p> <p>0.00dB</p> <p>90deg</p> <p>270deg</p> <p>180deg</p> <p>Theta</p> <p>dB</p>

	<p>Ant2(Phi0deg)</p>	
<p>5800MHz</p>	<p>Ant3(Phi0deg)</p>	