

Antenna Datasheet

RC antenna

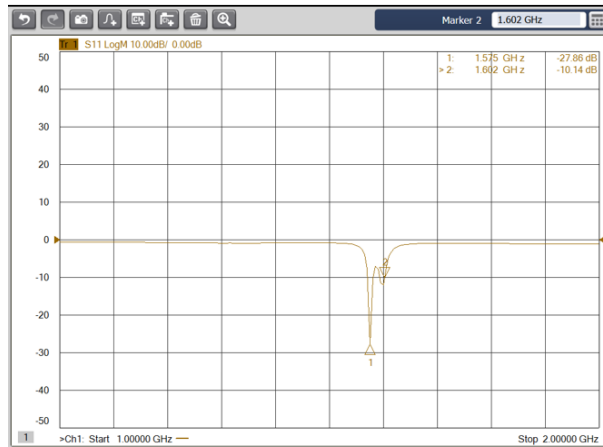
Antenna Datasheet

1、 Basic Specifications

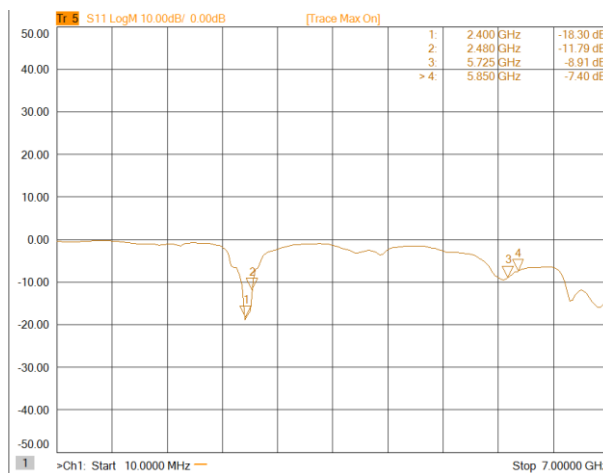
No.	Specification	Descriptions	Notes
1	Antenna Name	RC Ant	
2	Brand	N/A	
3	Operation Frequency	2.4~2.483GHz; 5.725~5.85GHz	
4	Connector Type	Ipex-1	
5	Impedance	50ohm	
6	Gain	2.5dBi@2.4~2.483GHz Wi-Fi/BT ANT 0 1.0dBi@5.15~5.25GHz Wi-Fi ANT 0&1 3dBi@5.725~5.875GHz Wi-Fi ANT 1 3dBi@2.4~2.483GHz SDR ANT 0 3.5dBi@5.725~5.875GHz SDR ANT 0 3dBi@2.4~2.483GHz SDR ANT 1 4dBi@5.725~5.875GHz SDR ANT 1 3dBi@2.4~2.483GHz SDR ANT 2 4.5dBi@5.725~5.875GHz SDR ANT 2 2dBi@2.4~2.483GHz SDR ANT 3 3.5dBi@5.725~5.875GHz SDR ANT 3	
7	Efficiency	$\geq 40\%$	
8	VSWR	≤ 2	
10	3dB Beamwidth	Omnidirectional horizon	
12	Antenna type	Dipole	

2、 Antenna Return Loss/VSWR

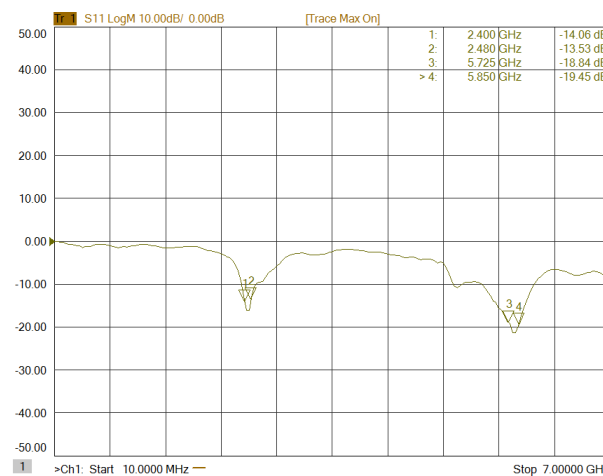
2.1 GNSS antenna return loss



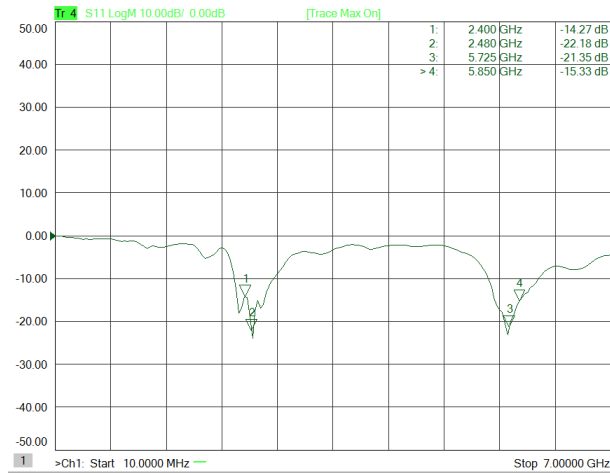
2.2 Wi-Fi/BT ANT



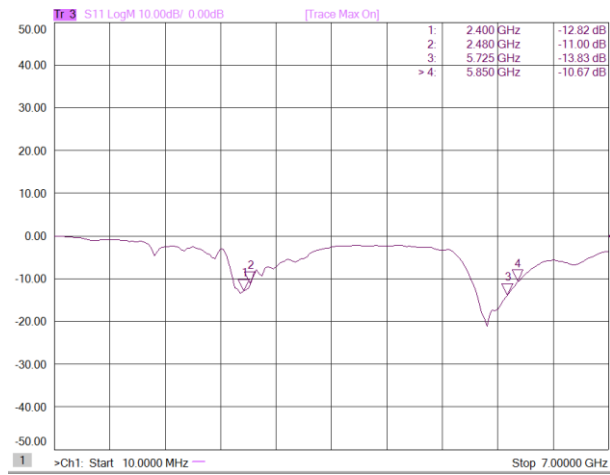
2.3 SDR ANT 0 return loss



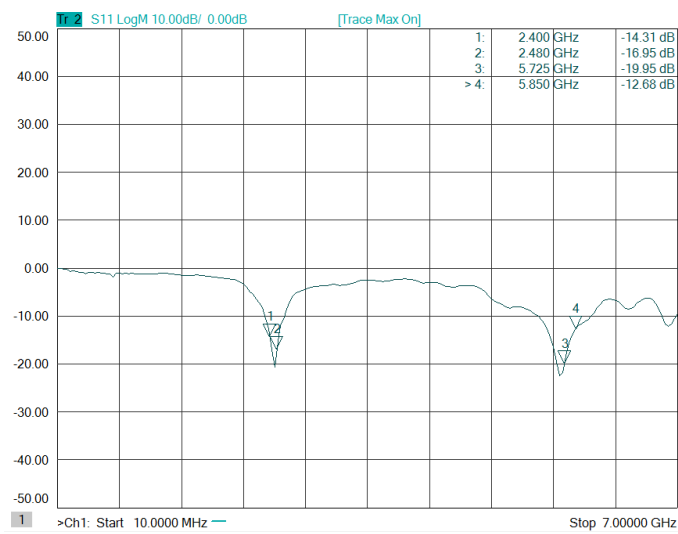
2.5 SDR ANT 1 return loss



2.6 SDR ANT 2 return loss



2.7 SDR ANT 3 return loss



3、 Antenna Gain

3.1 Wi-Fi antenna 0&1

Frequency	Efficiency	Gain(dBi)
2400MHz	36%	1.86
2420MHz	42%	2.50
2450MHz	47%	2.36
2470MHz	47%	2.37
5150MHz	21%	0.29
5175MHz	20%	0.15
5225MHz	16%	0.16
5250MHz	17%	1.00
5725MHz	34%	2.31
5775MHz	34%	2.55
5800MHz	35%	3.00
5850MHz	36%	2.94

3.2 SDR ANT 0

Frequency	Efficiency	Gain(dBi)
2400MHz	69%	2.67
2420MHz	71%	2.92
2450MHz	69%	3.00
2470MHz	69%	2.82
5725MHz	70%	3.45
5775MHz	70%	3.50
5800MHz	70%	3.34
5850MHz	65%	3.12

3.3 SDR ANT 1

Frequency	Efficiency	Gain(dBi)
2400MHz	73%	2.88
2420MHz	73%	3.00
2450MHz	71%	2.87
2470MHz	68%	2.86
5725MHz	66%	3.91
5775MHz	66%	3.76
5800MHz	66%	3.88
5850MHz	63%	4.00

3.4 SDR ANT 2

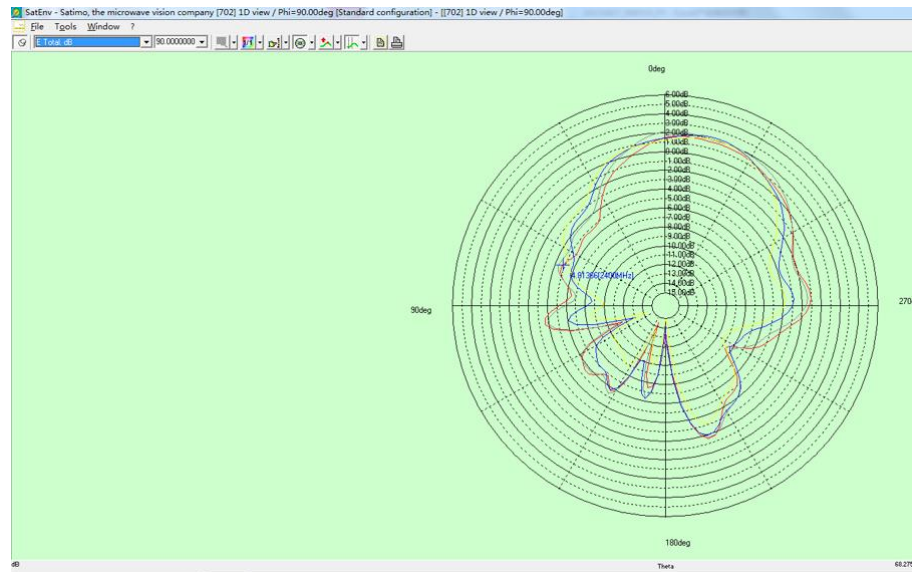
Frequency	Efficiency	Gain(dBi)
2400MHz	59%	2.57
2420MHz	57%	2.64
2450MHz	55%	2.77
2470MHz	52%	3.00
5725MHz	67%	4.50
5775MHz	64%	4.43
5800MHz	63%	4.31
5850MHz	58%	4.38

3.5 SDR ANT 3

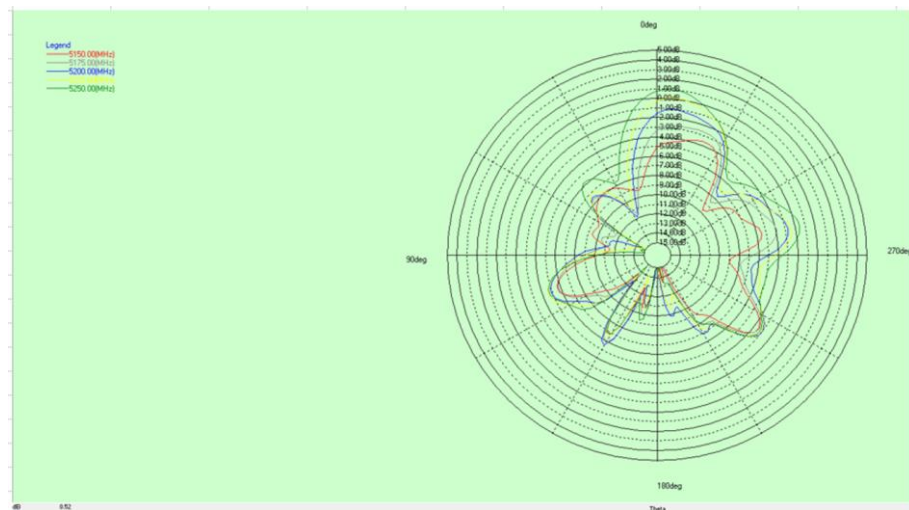
Frequency	Efficiency	Gain(dBi)
2400MHz	73%	1.95
2420MHz	76%	2.00
2450MHz	76%	1.80
2470MHz	72%	1.73
5725MHz	64%	3.50
5775MHz	63%	3.42
5800MHz	63%	3.41
5850MHz	58%	3.36

4、 Radiation Pattern

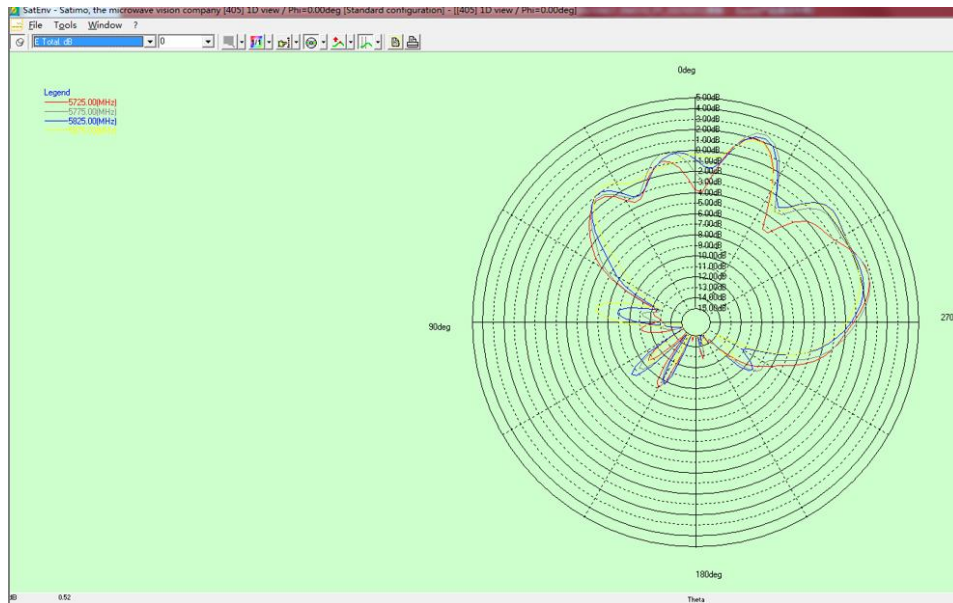
4.1 Wifi antenna 2.4G radiation pattern



4.1 Wifi antenna 5.1G radiation pattern

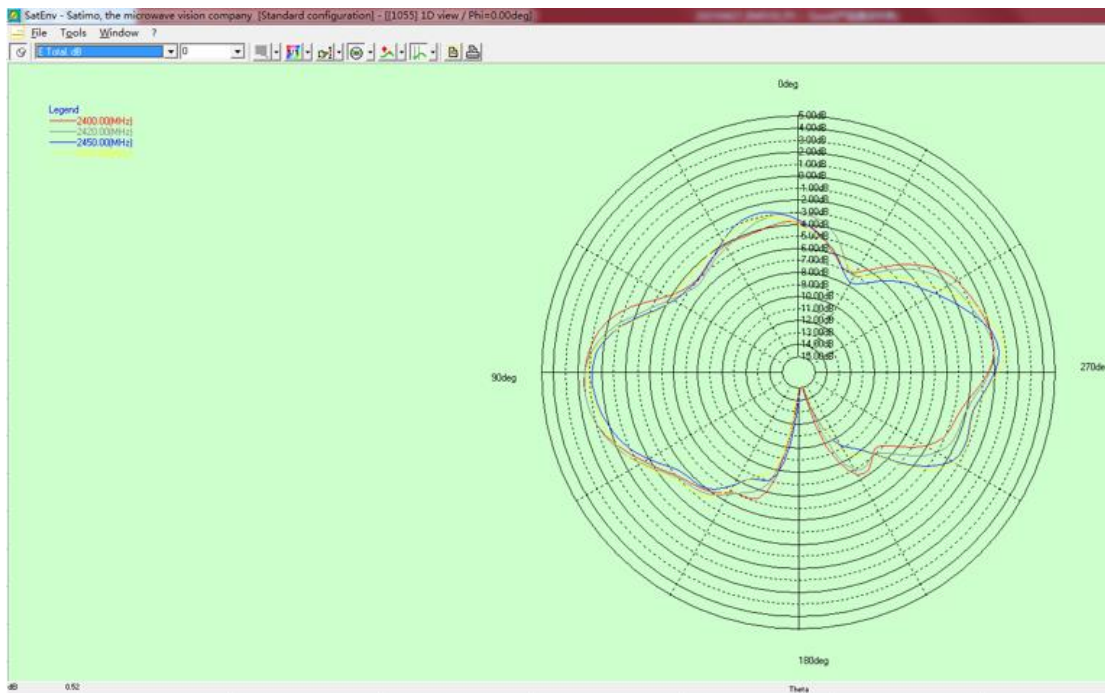


4.2 Wifi antenna 5.8G radiation pattern

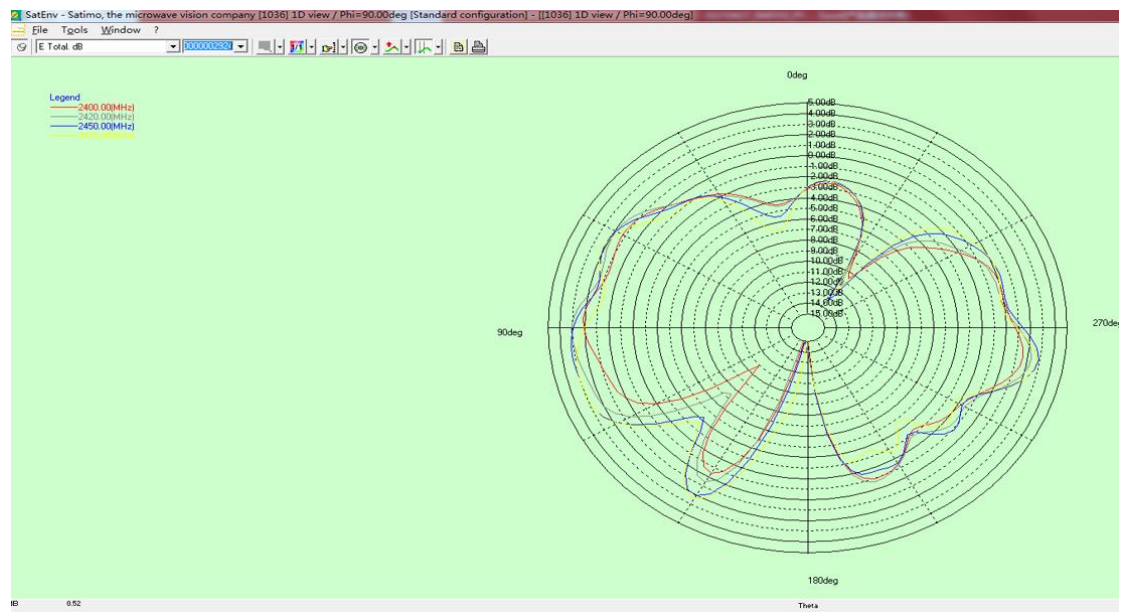


4.3 SDR ANT 0 2.4G radiation pattern

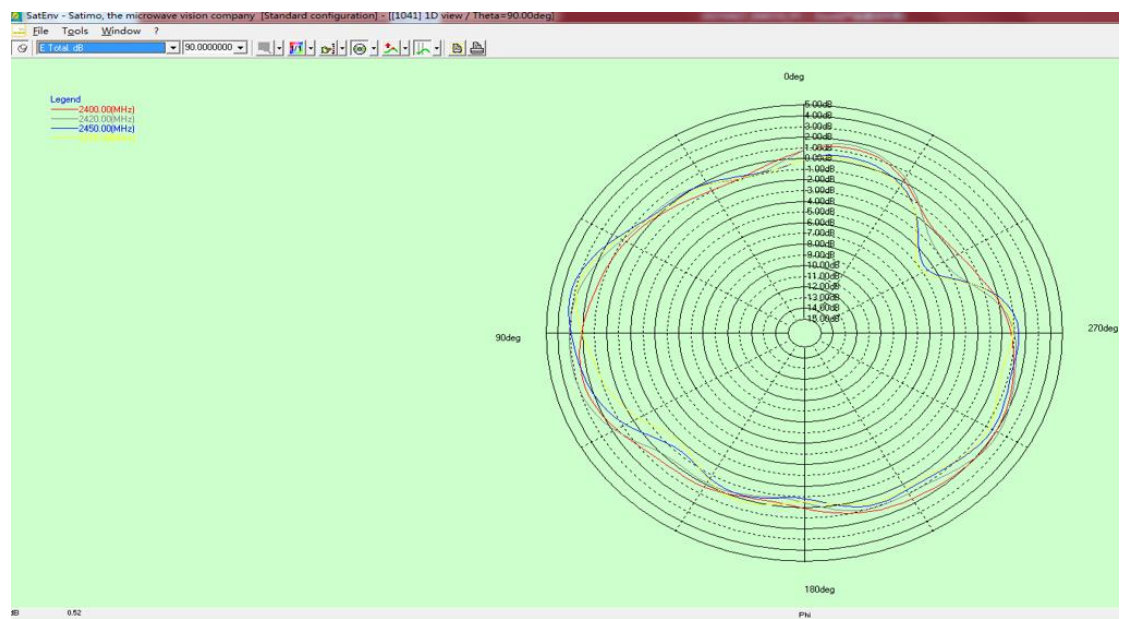
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Phi=90

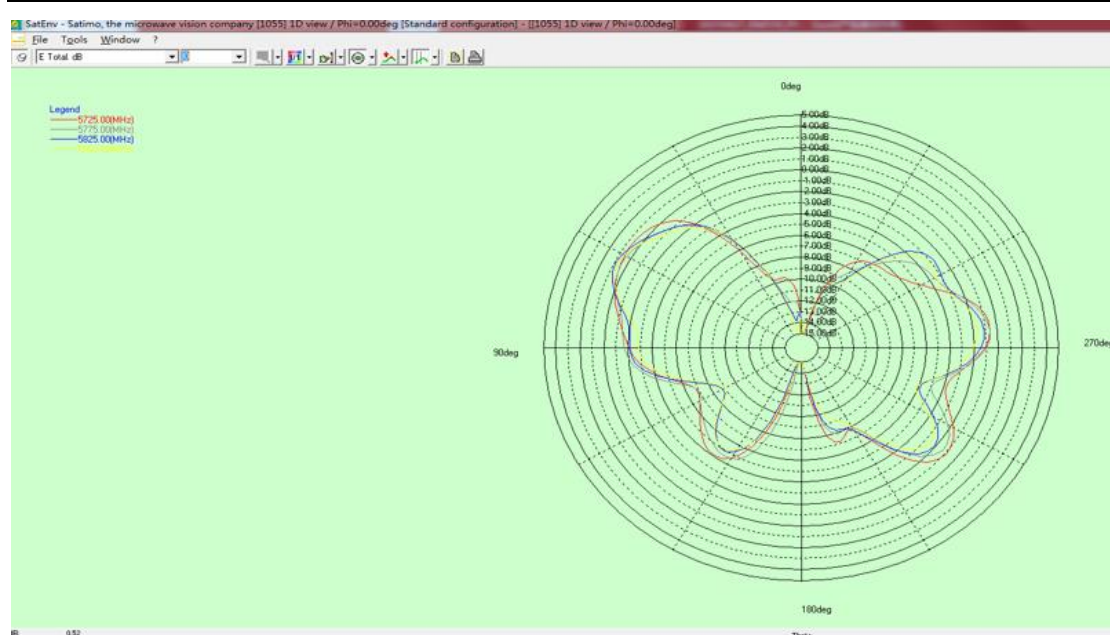


Theta=90

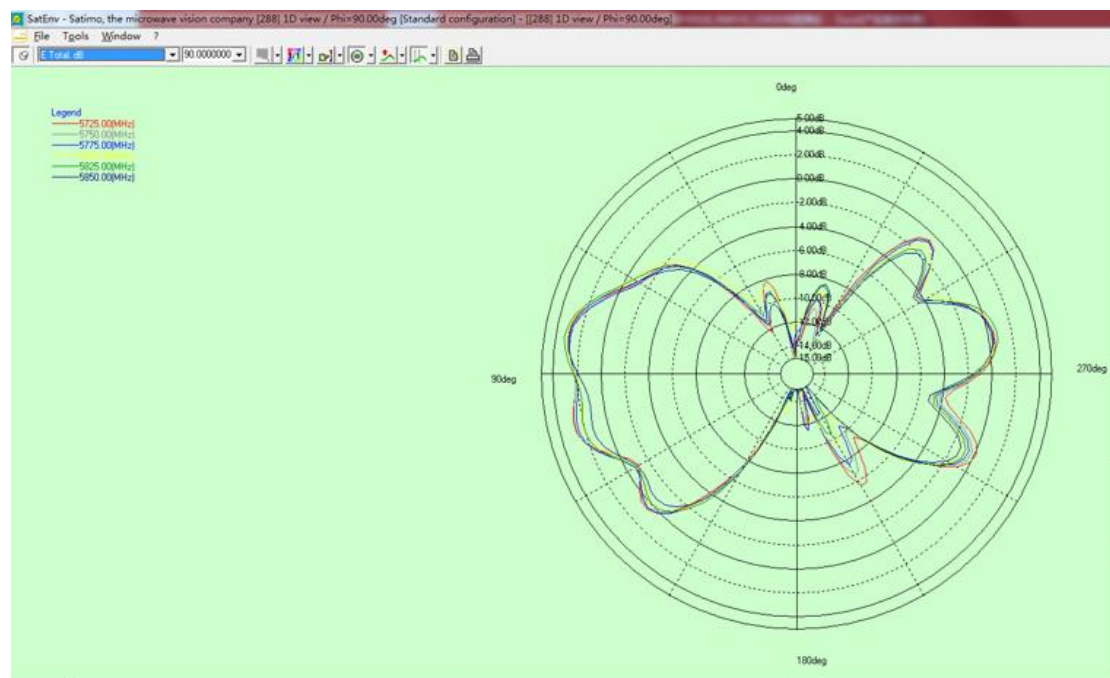


4.4 SDR ANT 0 5.8G radiation pattern

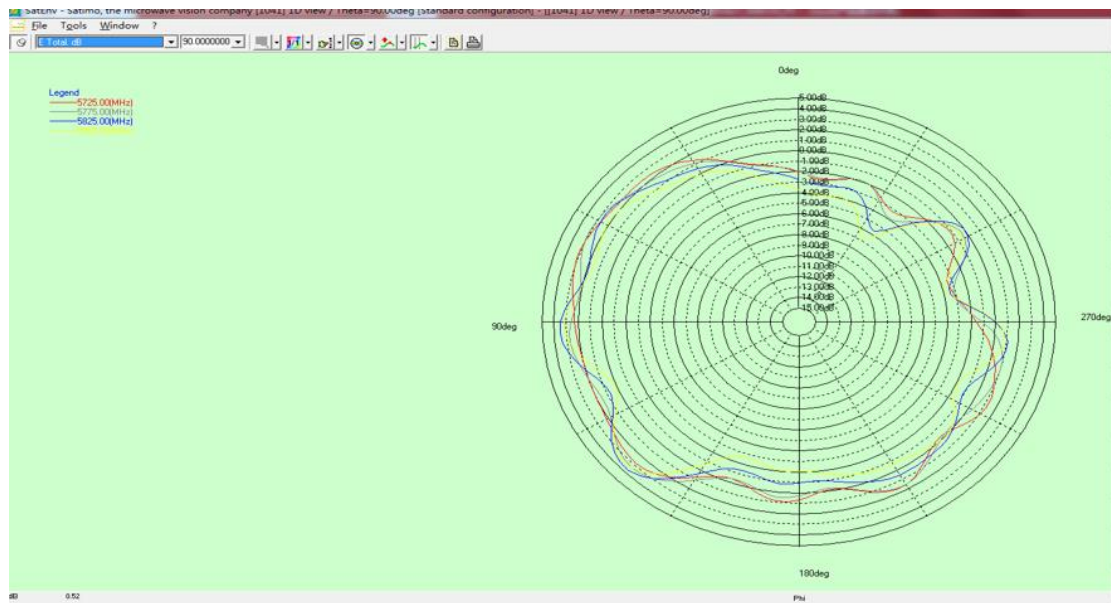
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Phi=90

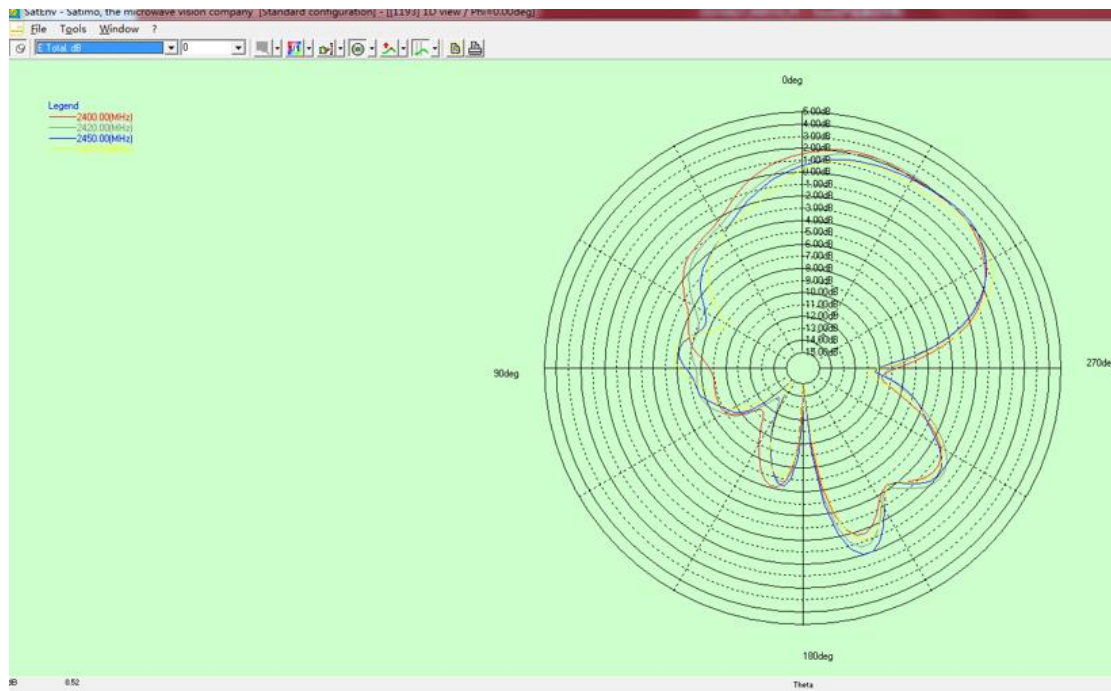


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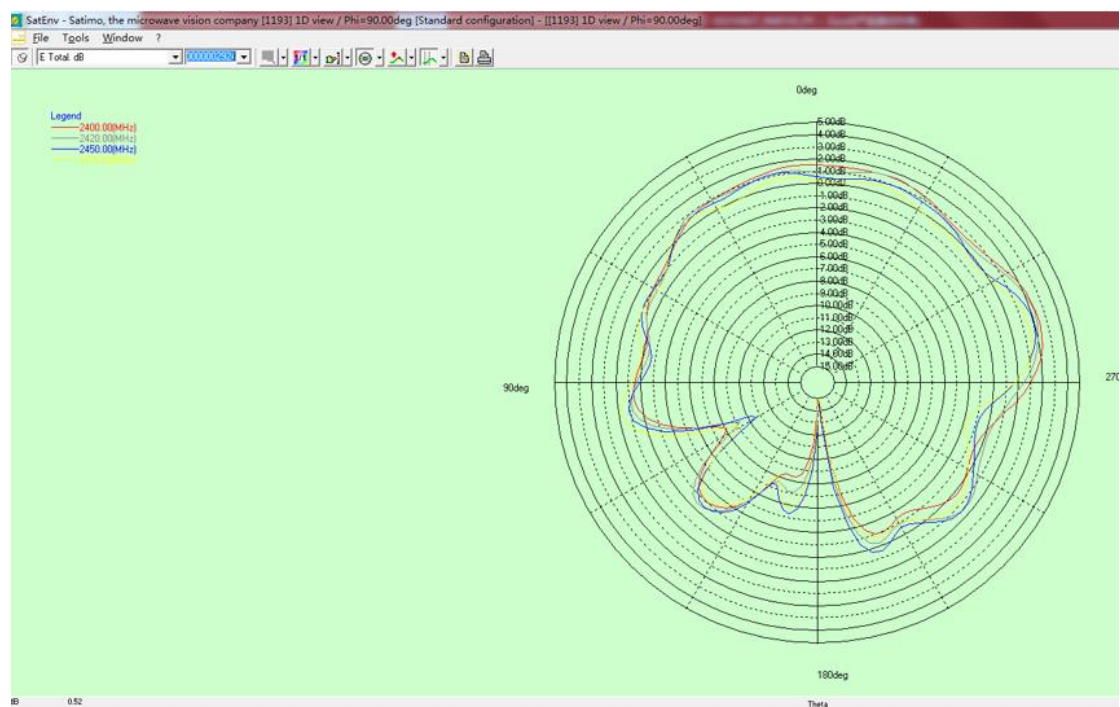


4.5 SDR ANT 1 2.4G radiation pattern

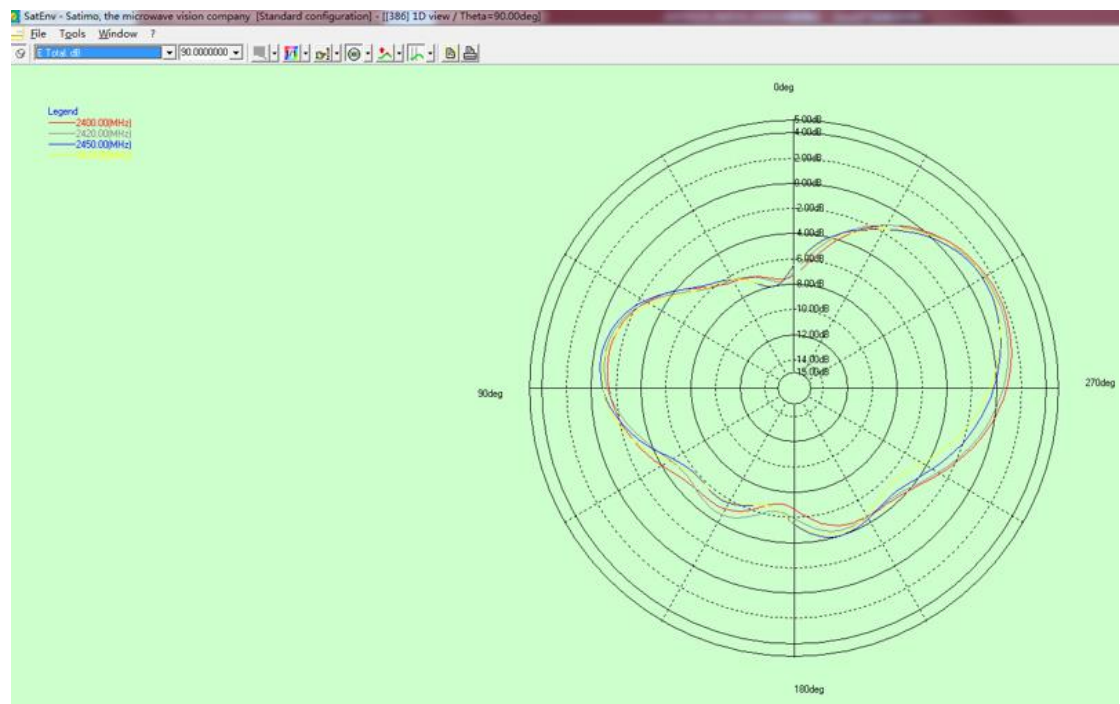
Phi=0



Phi=90

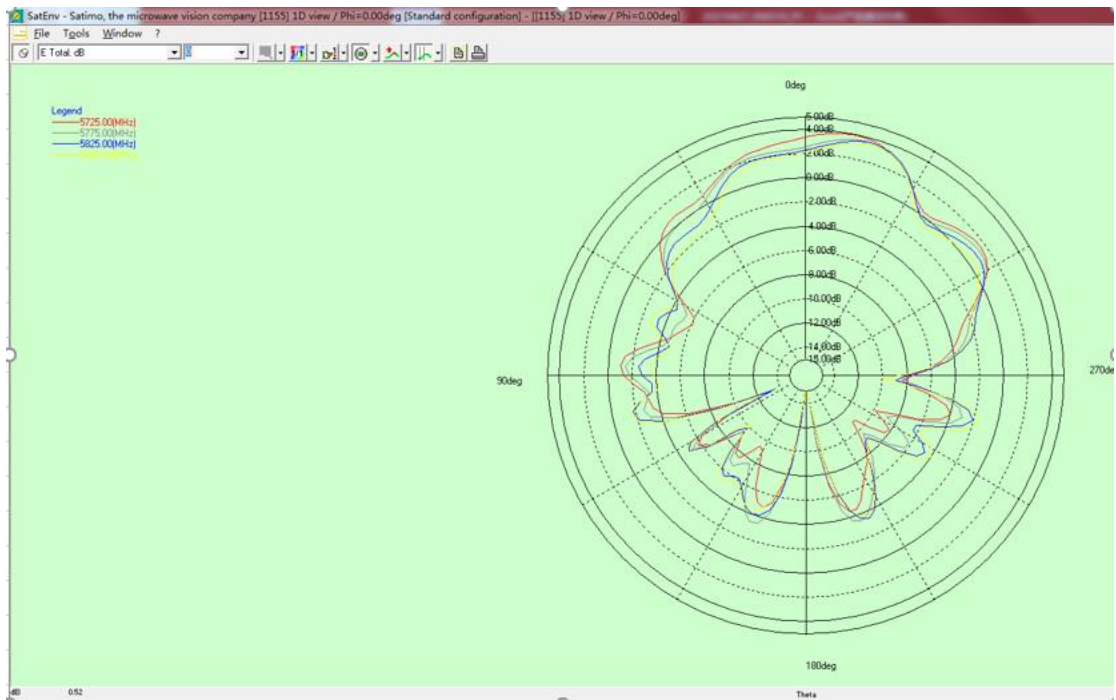


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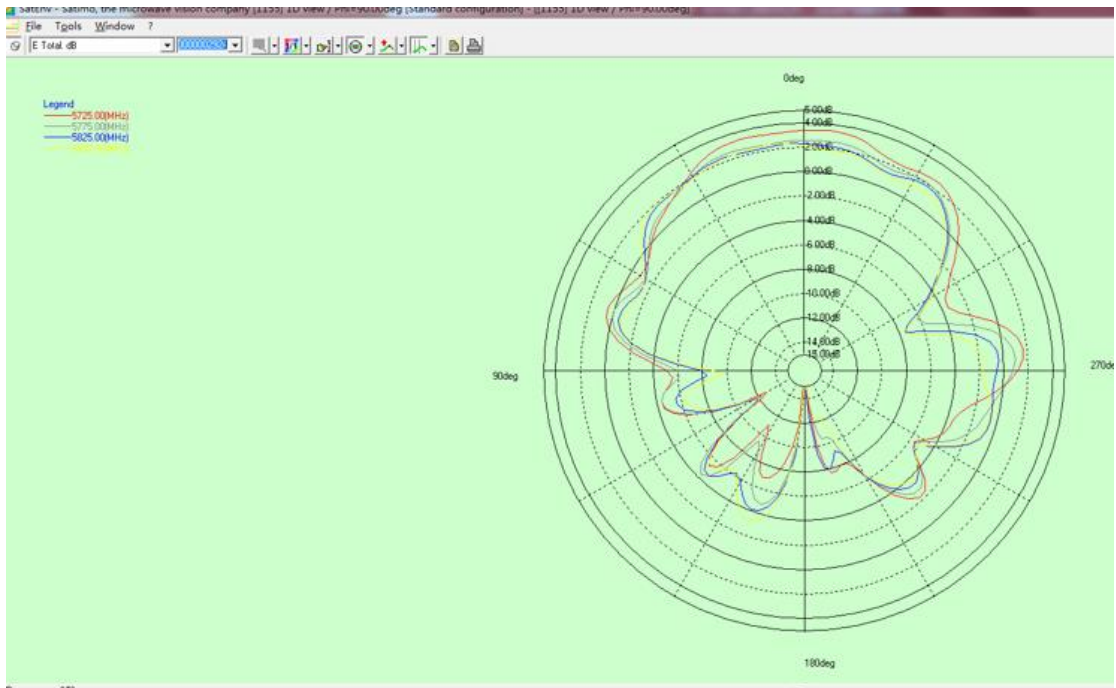


4.6 SDR ANT 1 5.8G radiation pattern

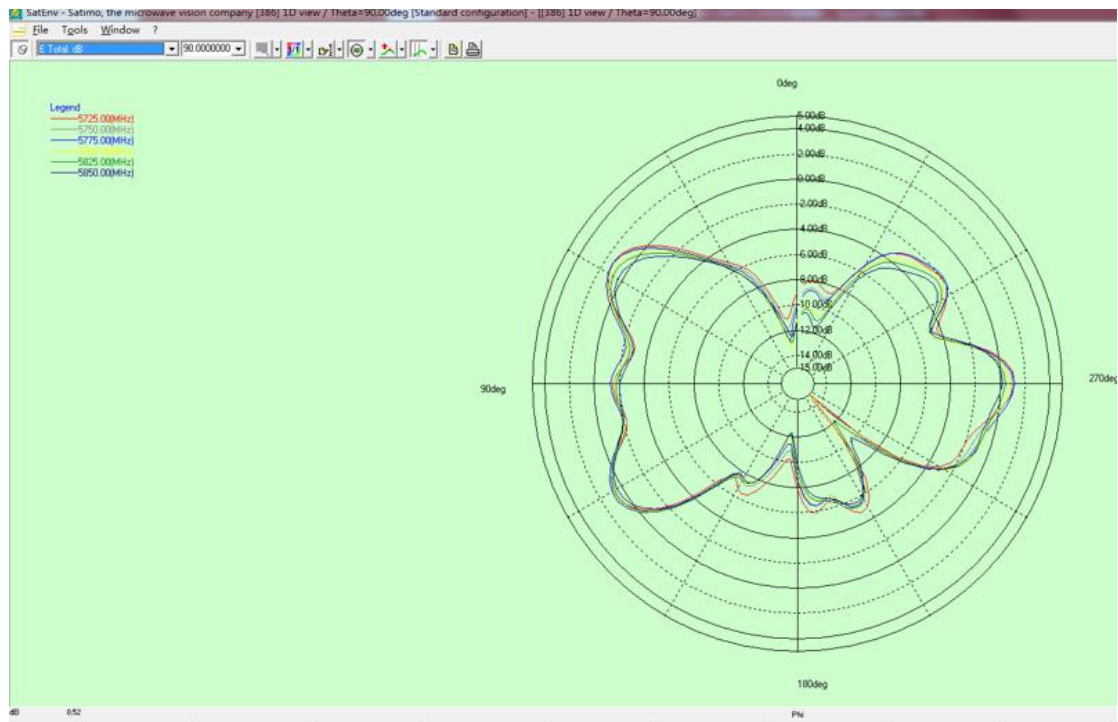
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Phi=90

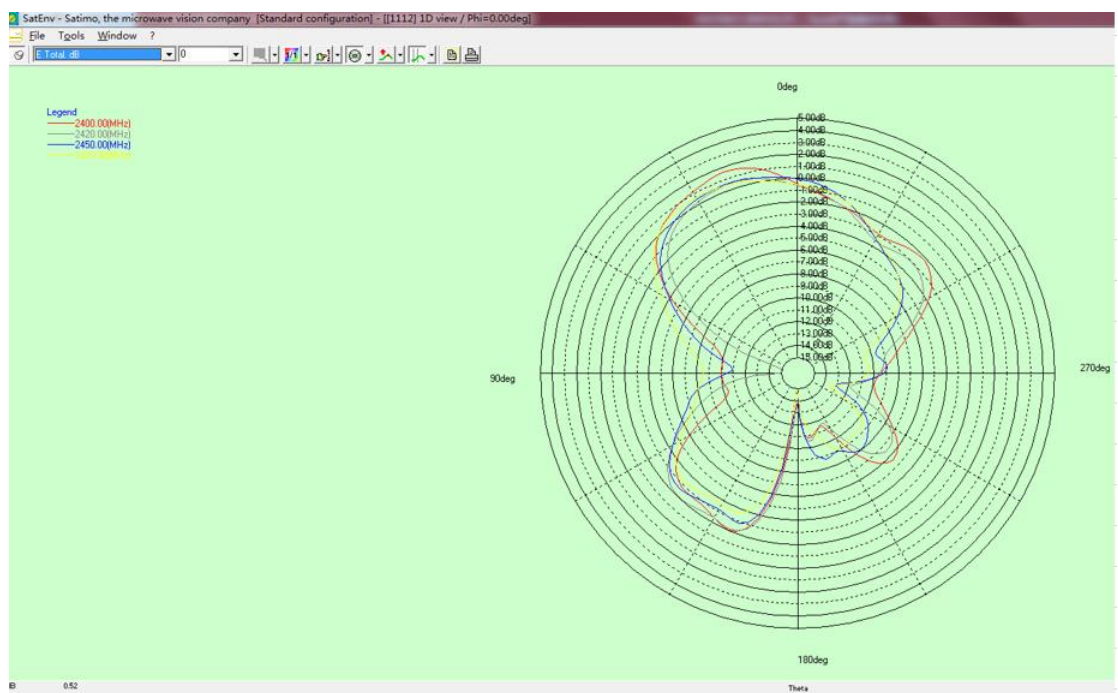


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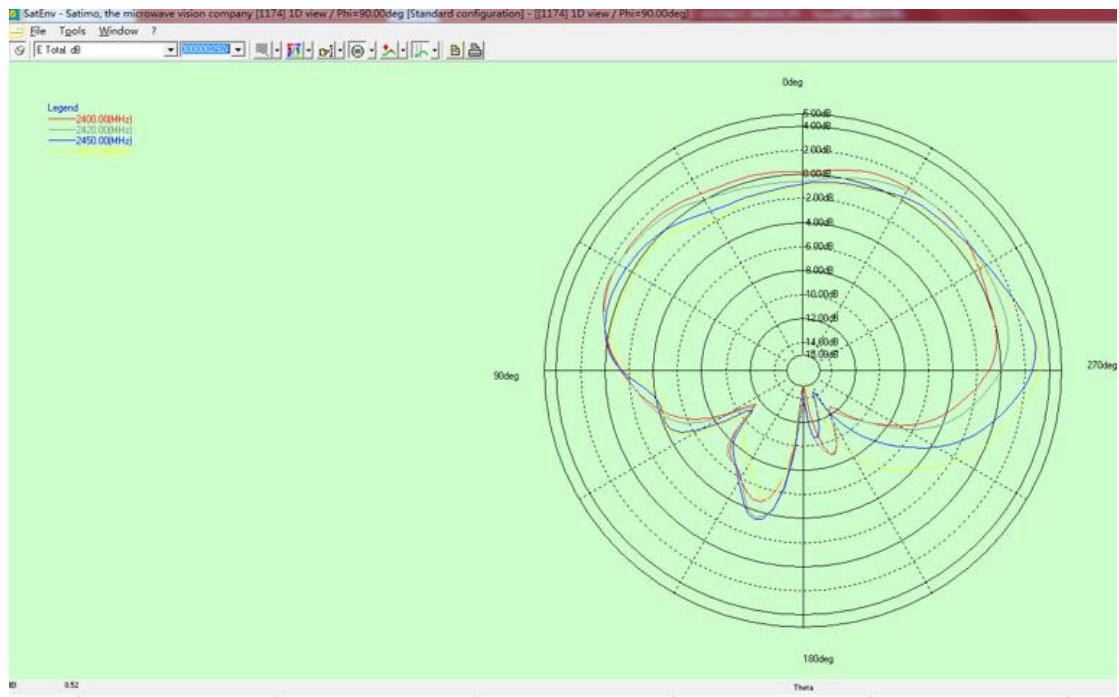


4.7 SDR ANT 2 2.4G radiation pattern

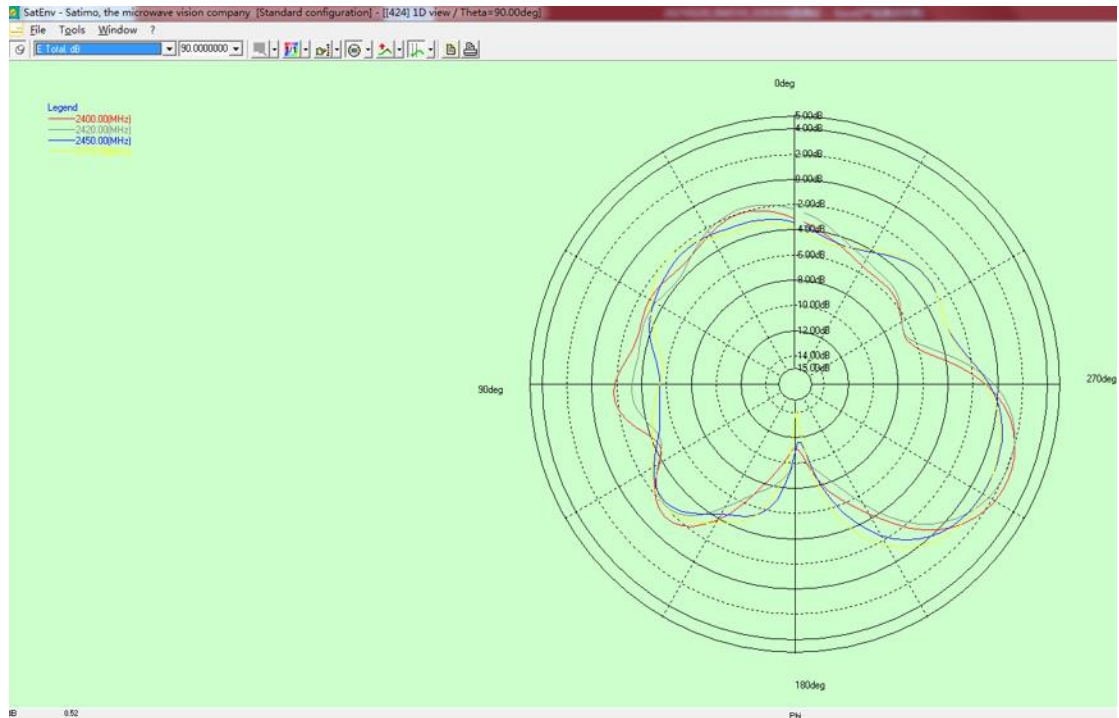
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Phi=90

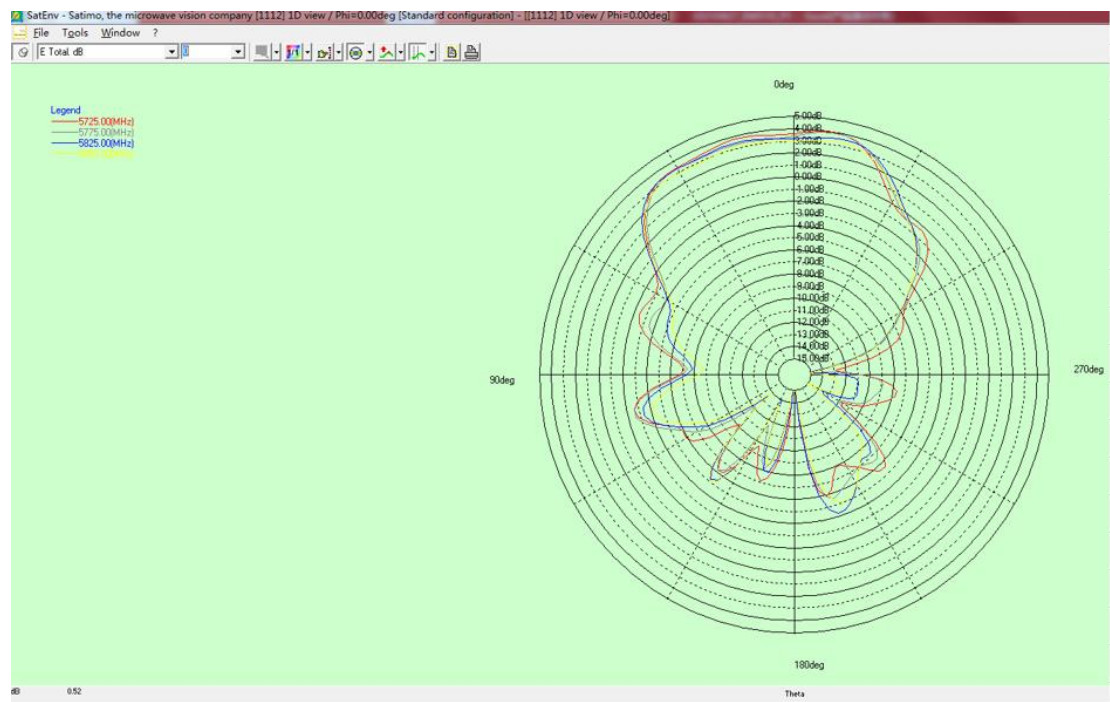


Theta=90

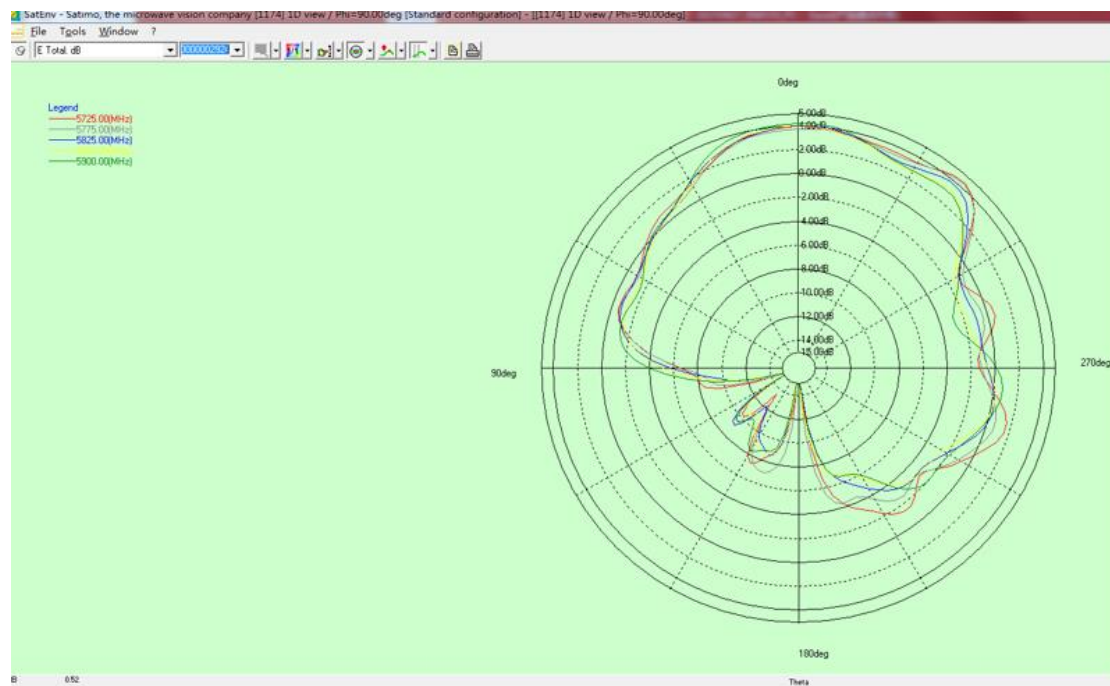


4.8 SDR ANT 2 5.8G radiation pattern

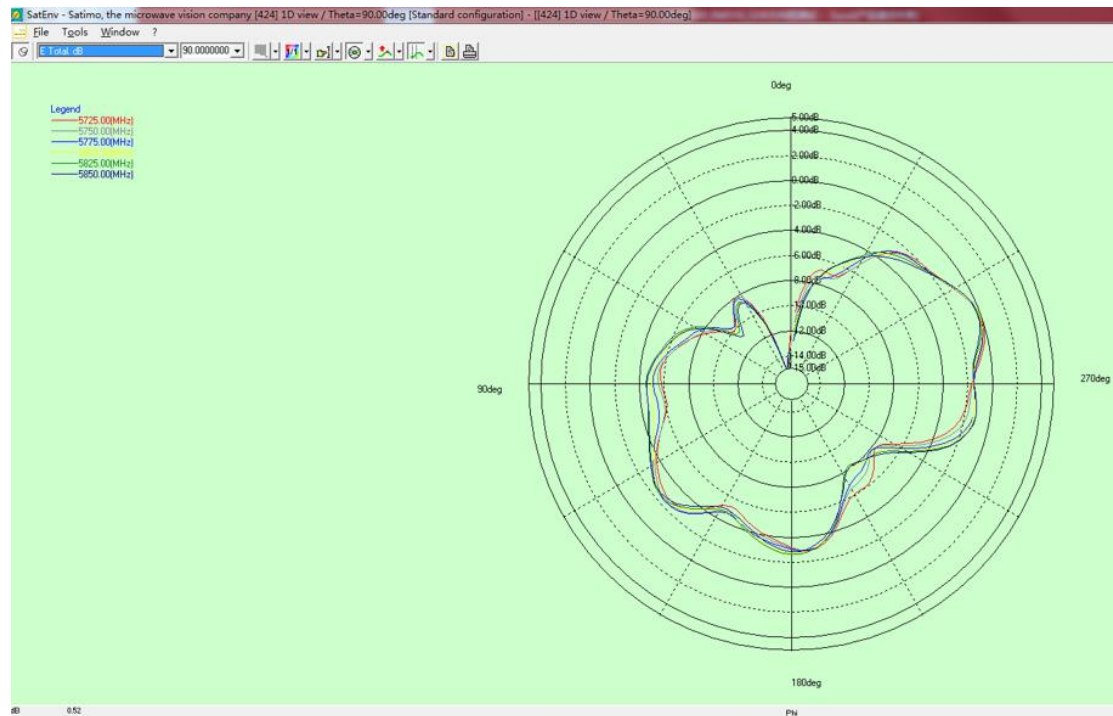
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Phi=90

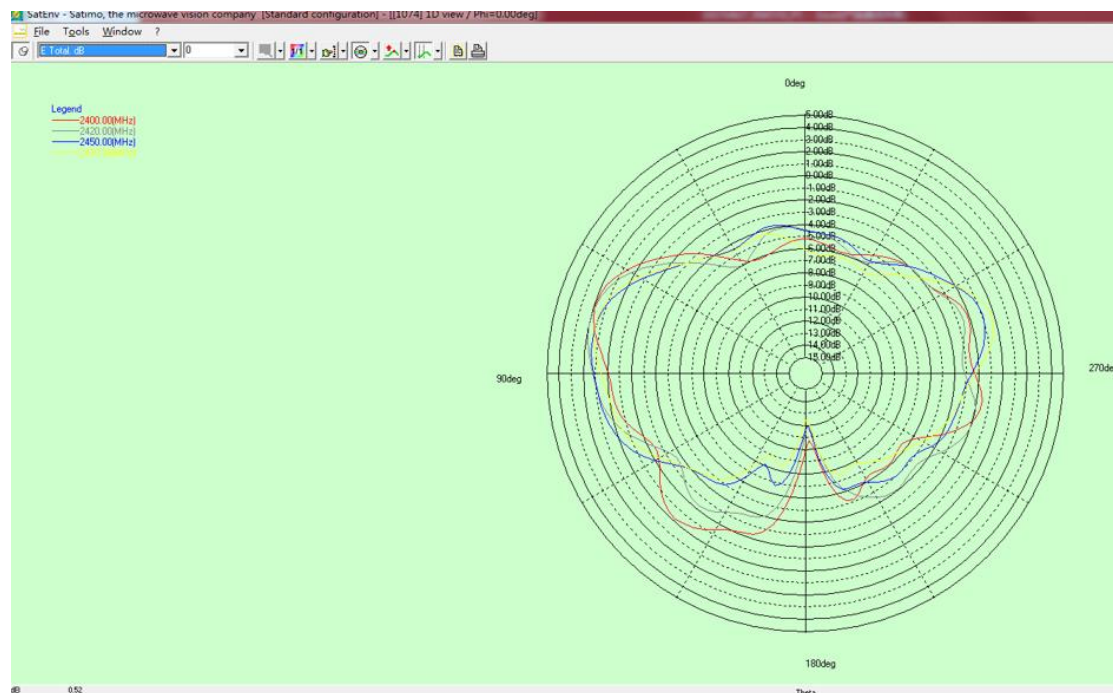


Theta=90

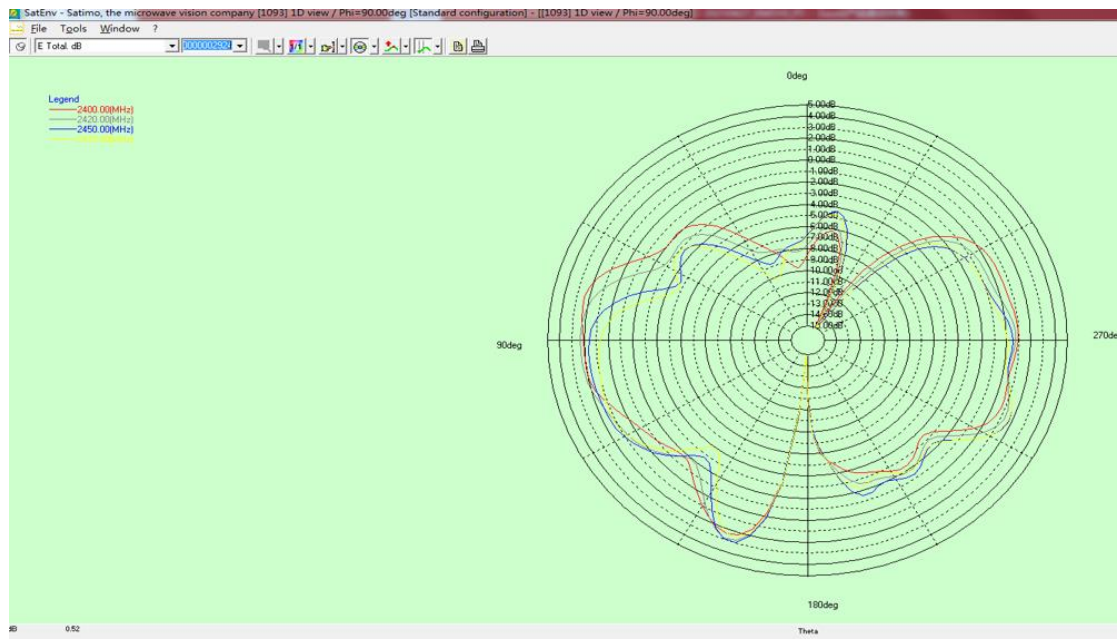


4.9 SDR ANT 3 2.4G radiation pattern

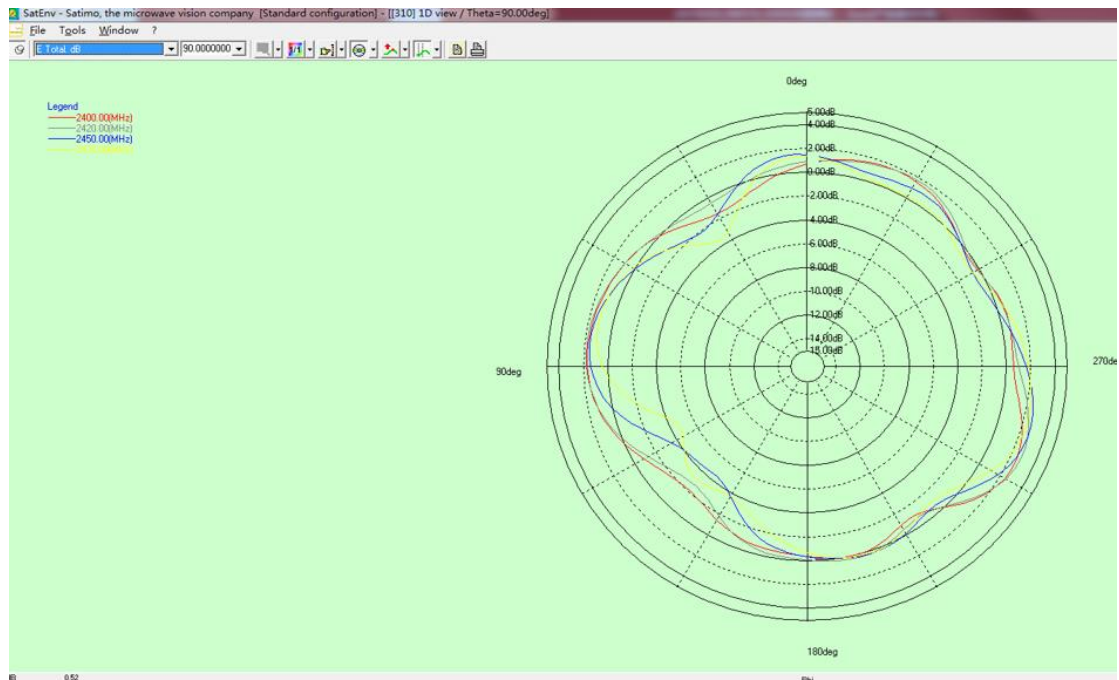
Phi=0



Phi=90

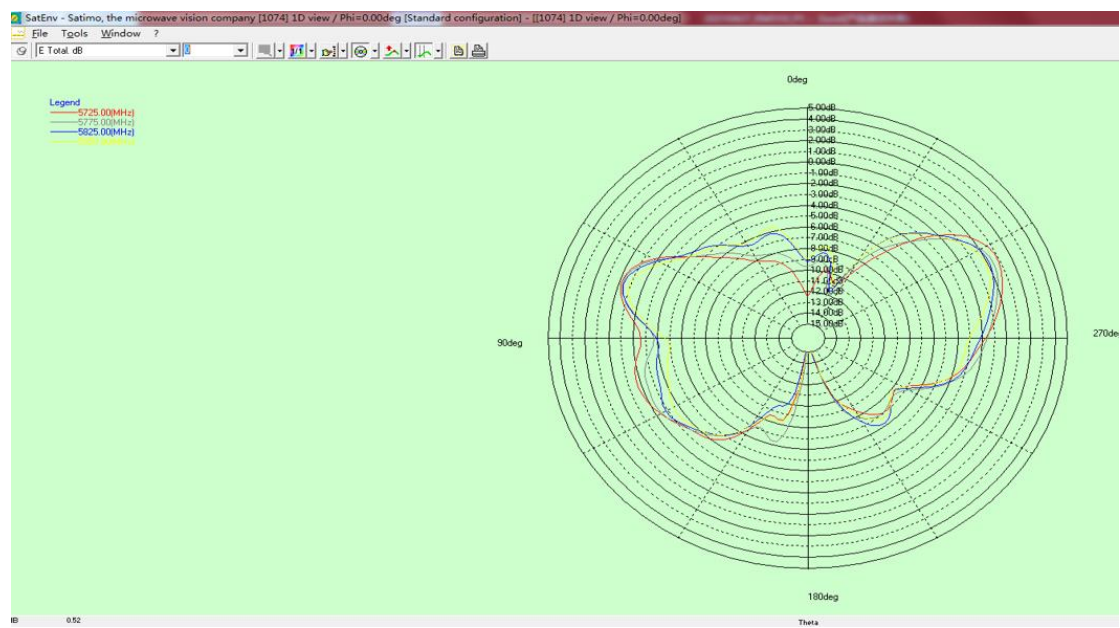


Theta=90

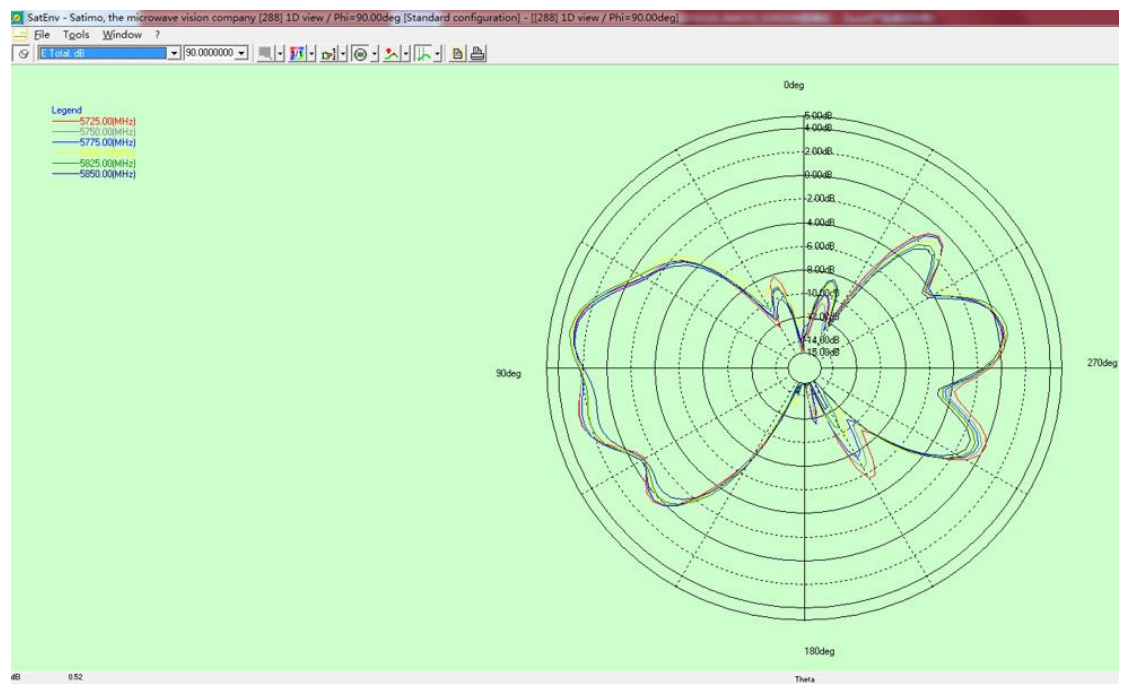


4.10 SDR ANT 3 5.8G radiation pattern

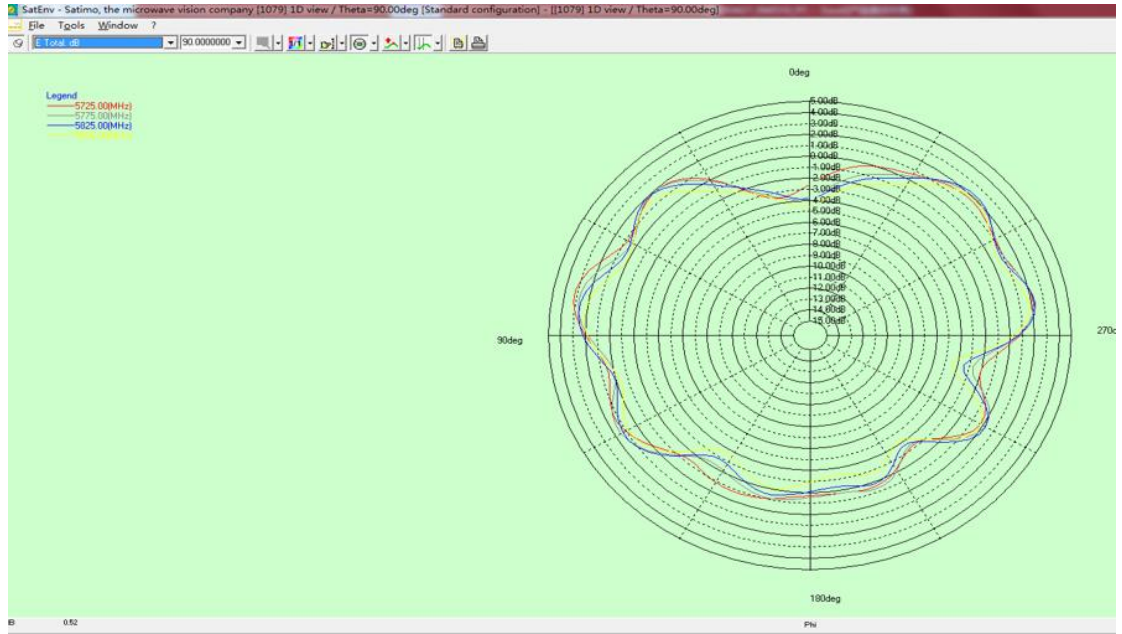
Phi=0



Phi=90

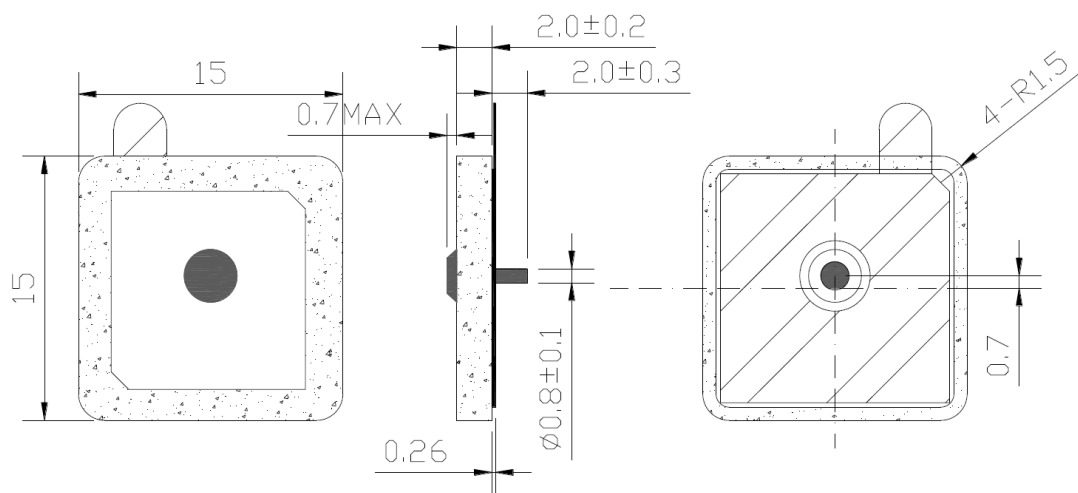


Theta=90



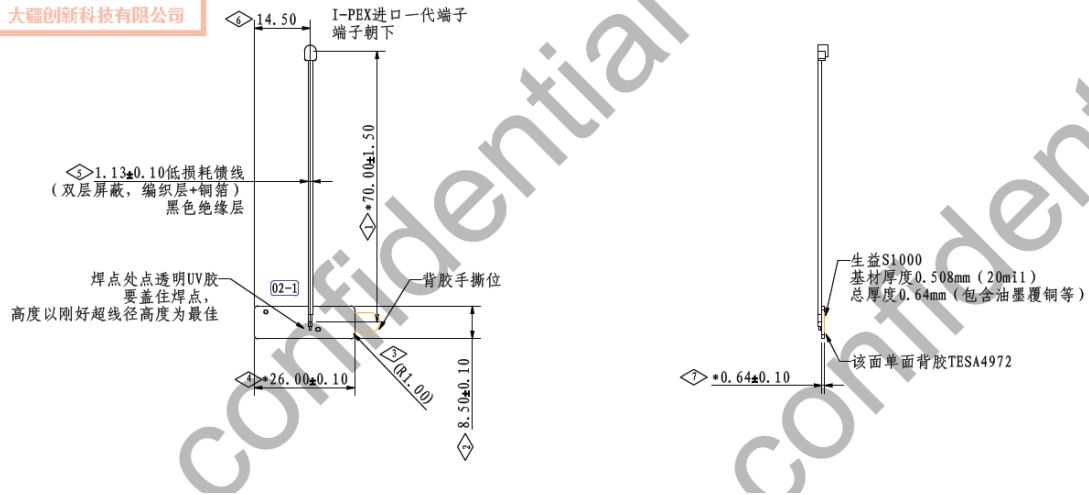
5、 Structure drawing

5.1 GNSS antenna 2D



5.2 Wi-Fi ANT0

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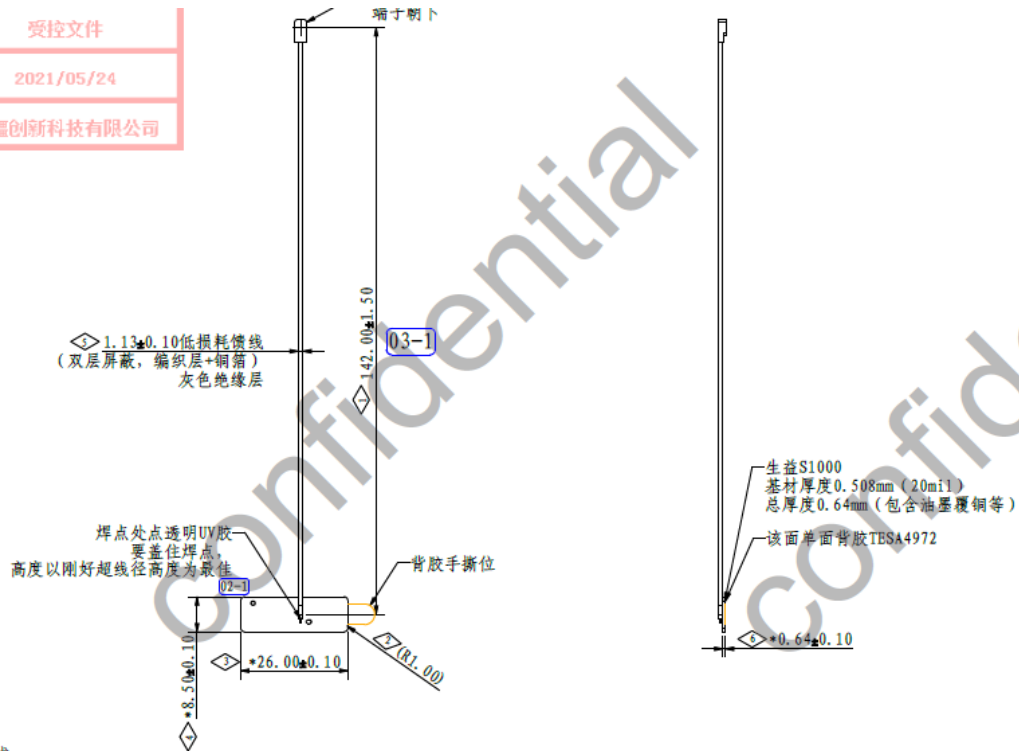


5.3 Wi-Fi ANT1

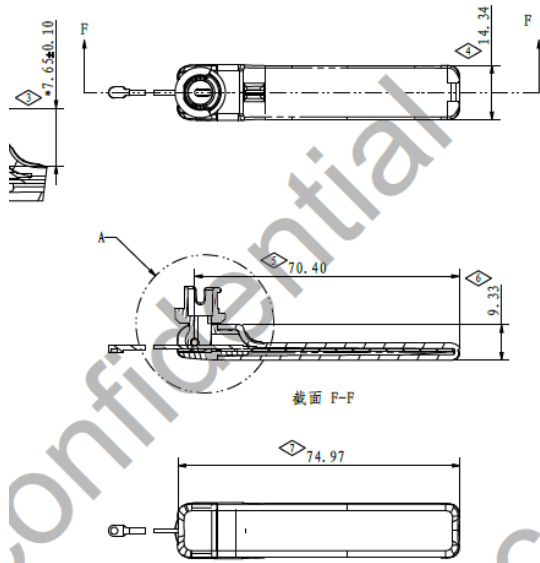
受控文件

2021/05/24

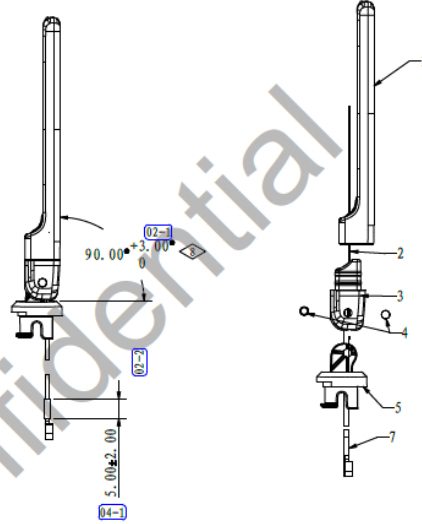
大疆创新科技有限公司



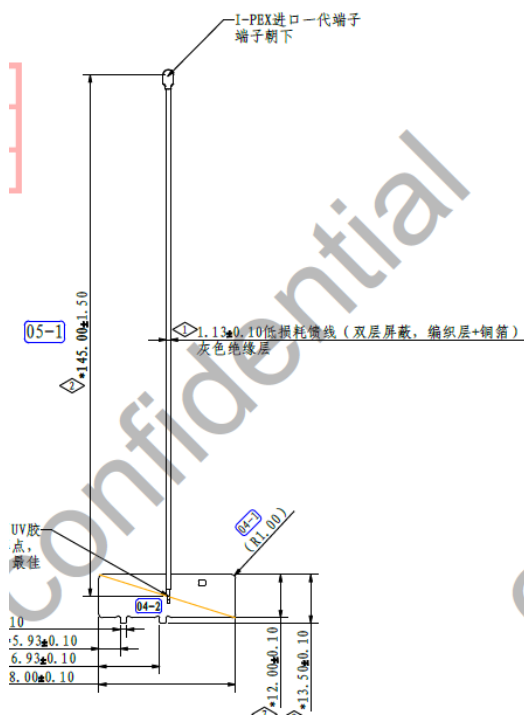
5.3 SDR ANT 0 2D



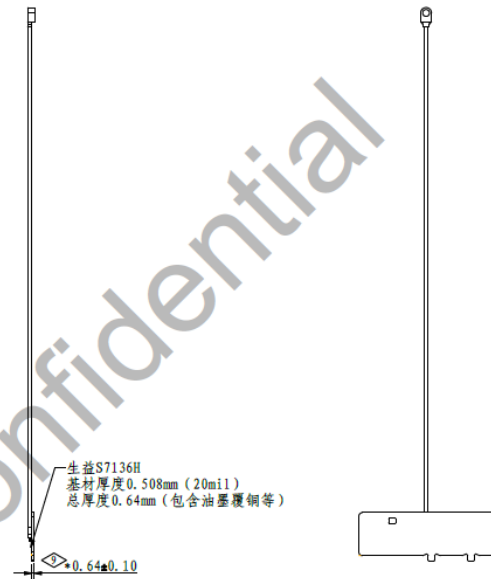
装配后, 自由状态下,



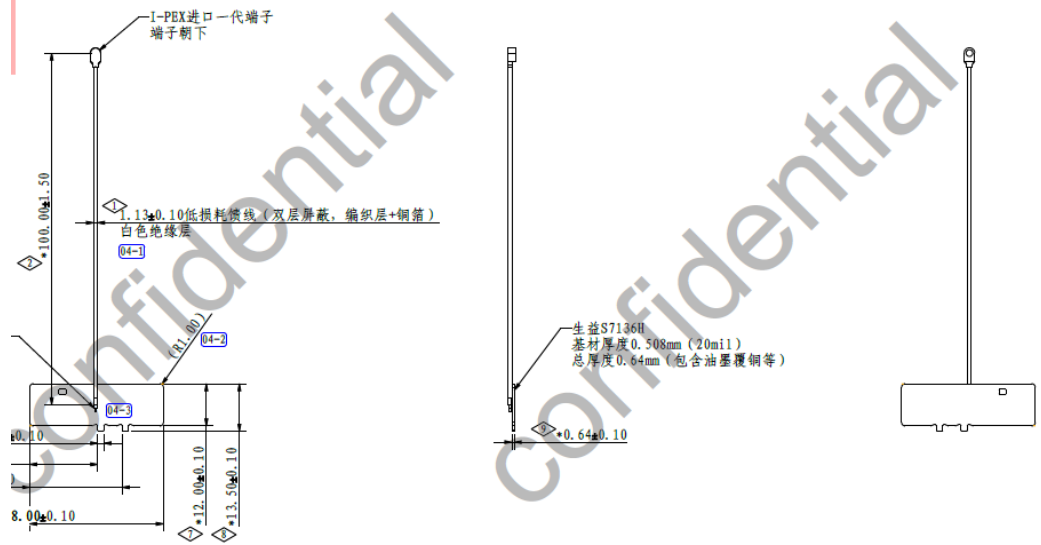
5.4 SDR ANT 1 2D



05] x1 $05-1$ (B1) 线长缩短到145mm. 10055607 20



5.5 SDR ANT 2 2D



5.6 SDR ANT 3 2D

