

Antenna Datasheet

WA1616 Controller Ant

2023-07-15

Revision history

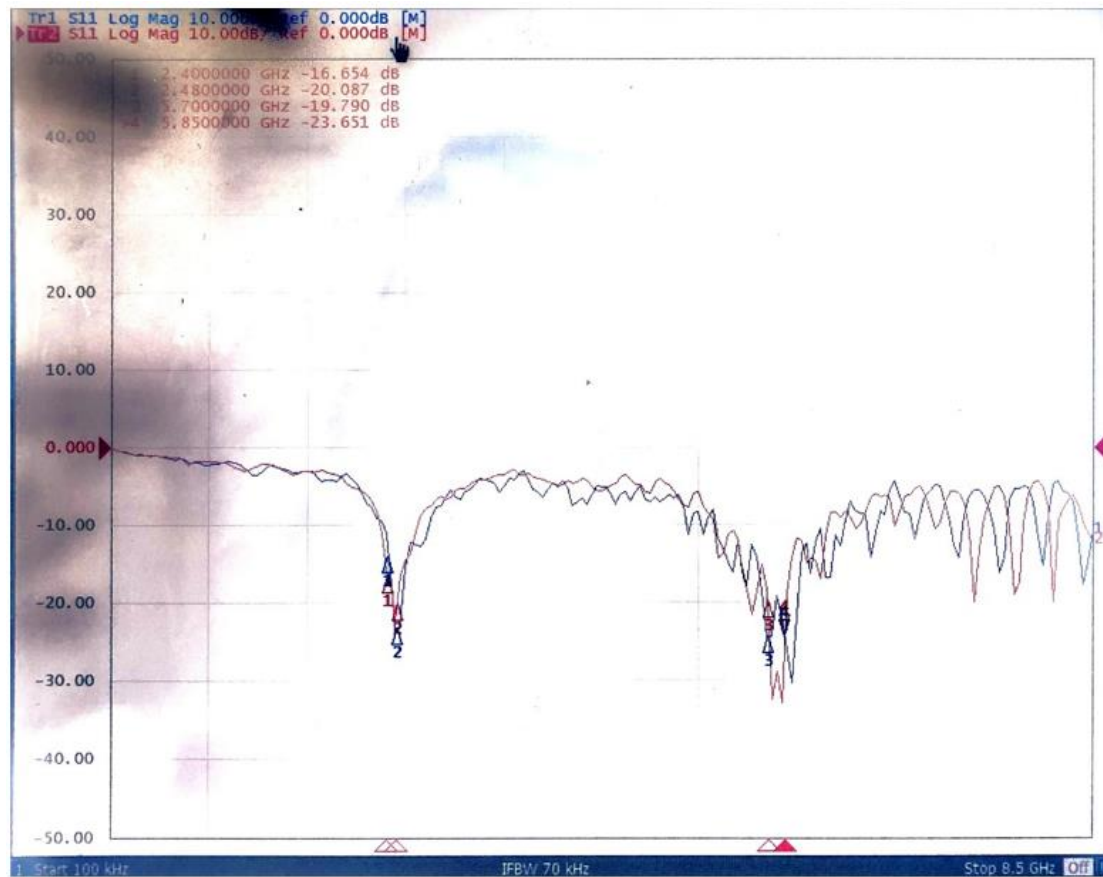
Version	Change notes	Modifier	Date
V1.0	First draft.	Dave.li	2023.07.15

Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<i>WA1616 Controller Ant</i>		
2	Brand	<i>SPECTA</i>		
3	Operation Frequency	<i>2.4~2.483GHz; 5.725~5.875GHz</i>		
4	Connector Type	<i>Ipex-1</i>		
5	Impedance	<i>50ohm</i>		
6	Gain	<i>3dBi@2.4~2.483GHz 4dBi@5.725~5.875GHz</i>		
7	Efficiency	<i>≥45%</i>		
8	VSWR	<i>≤2</i>		
9	Polarization type	<i>Linear</i>		
10	3dB Beamwidth	<i>Omnidirectional horizon</i>		
11	Weight	<i>/</i>		
12	Antenna type	<i>Integral Antenna</i>		
13	Manufacturer	<i>Shenzhen ZTX Communication Technology Co., LTD. Kunshan Innowave Communication Technology Co., Ltd.</i>		

2、 Antenna efficiency/Return Loss/VSWR



Frequency	Gain(dBi)R	Efficiency(%)R	Gain(dBi)L	Efficiency(%)L
2400MHz	2.05	65%	2.05	65%
2420MHz	3.00	67%	2.98	67%
2440 MHz	2.46	68%	2.46	68%
2450 MHz	2.25	68%	2.25	68%
2460 MHz	2.12	68%	2.12	68%
2480 MHz	2.00	66%	2.00	66%
5700 MHz	3.52	59%	3.52	59%
5750 MHz	3.47	59%	3.47	59%
5800 MHz	3.78	61%	3.78	61%

5850 MHz	4.00	63%	3.93	63%
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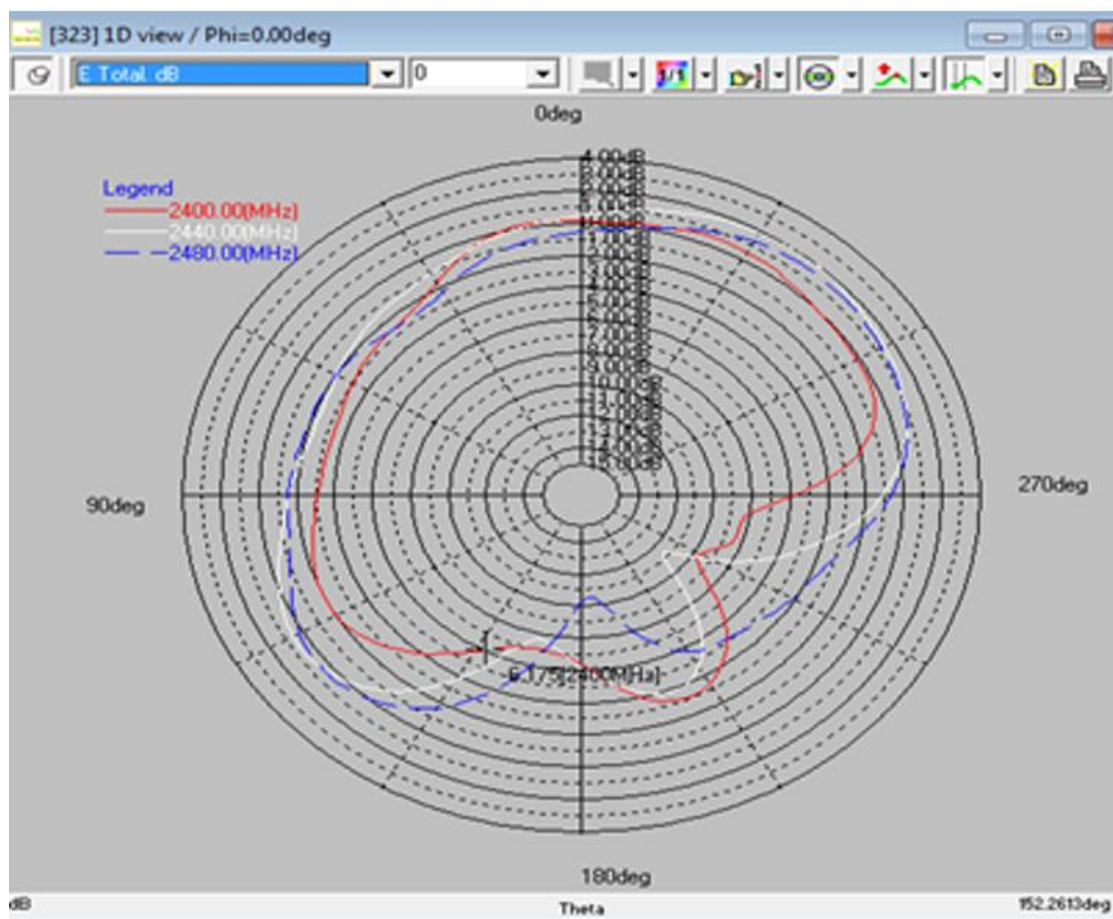
3、 Radiation Pattern

Test lab: Satimo SG24

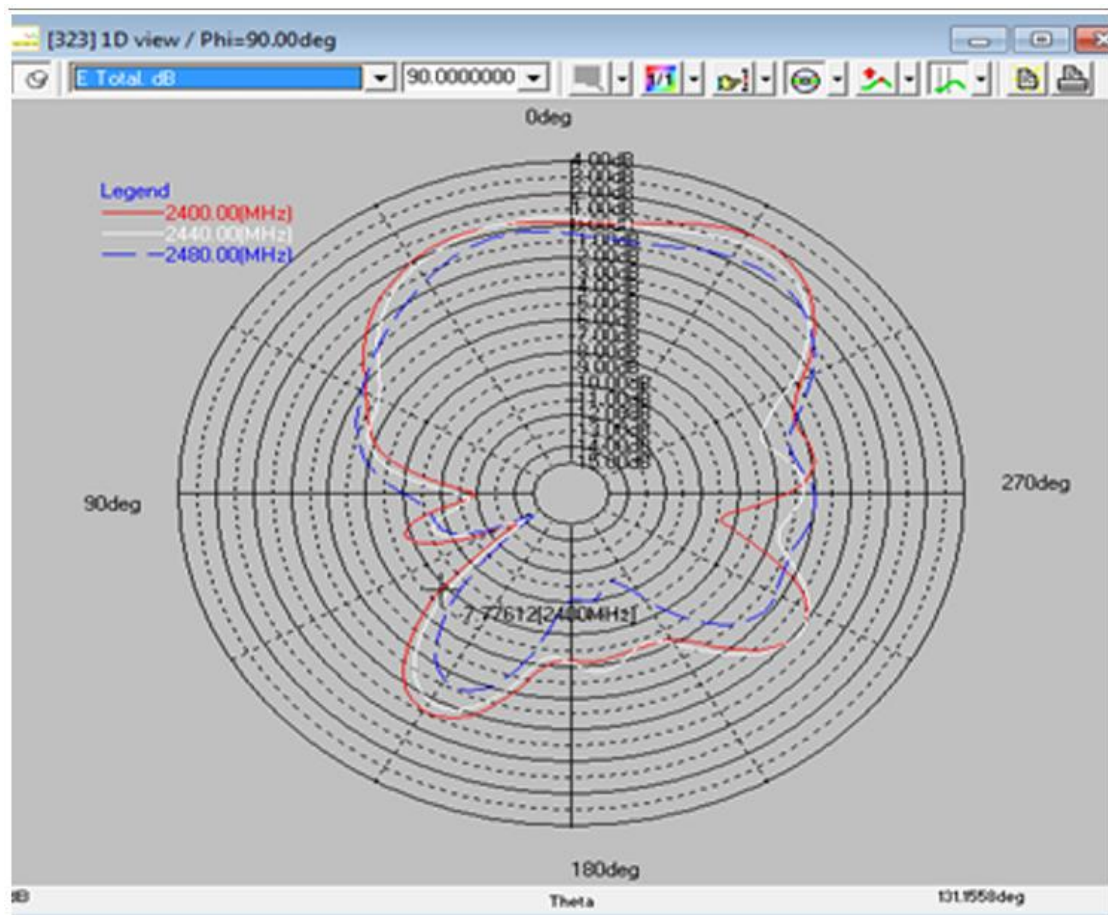
Test date: 2023/06/10

3.1 2.4G radiation pattern

Phi=0

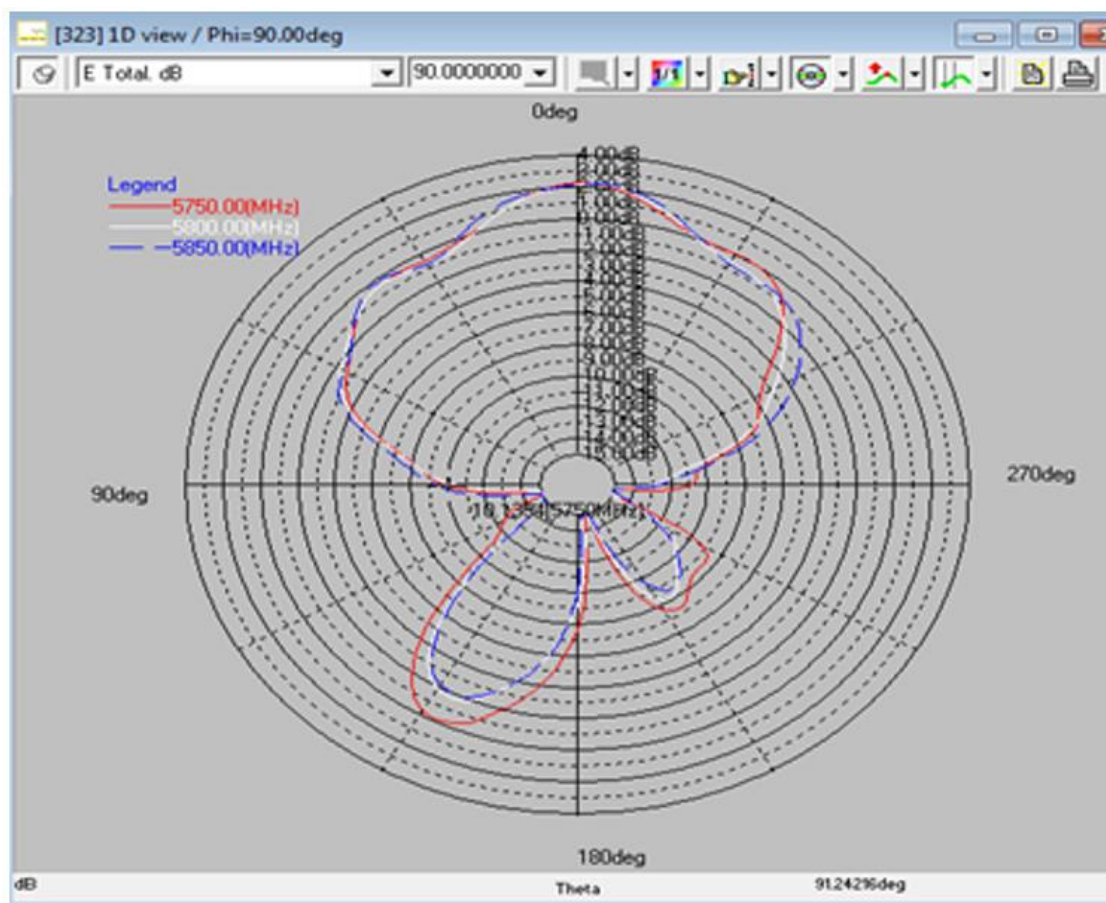


Phi=90

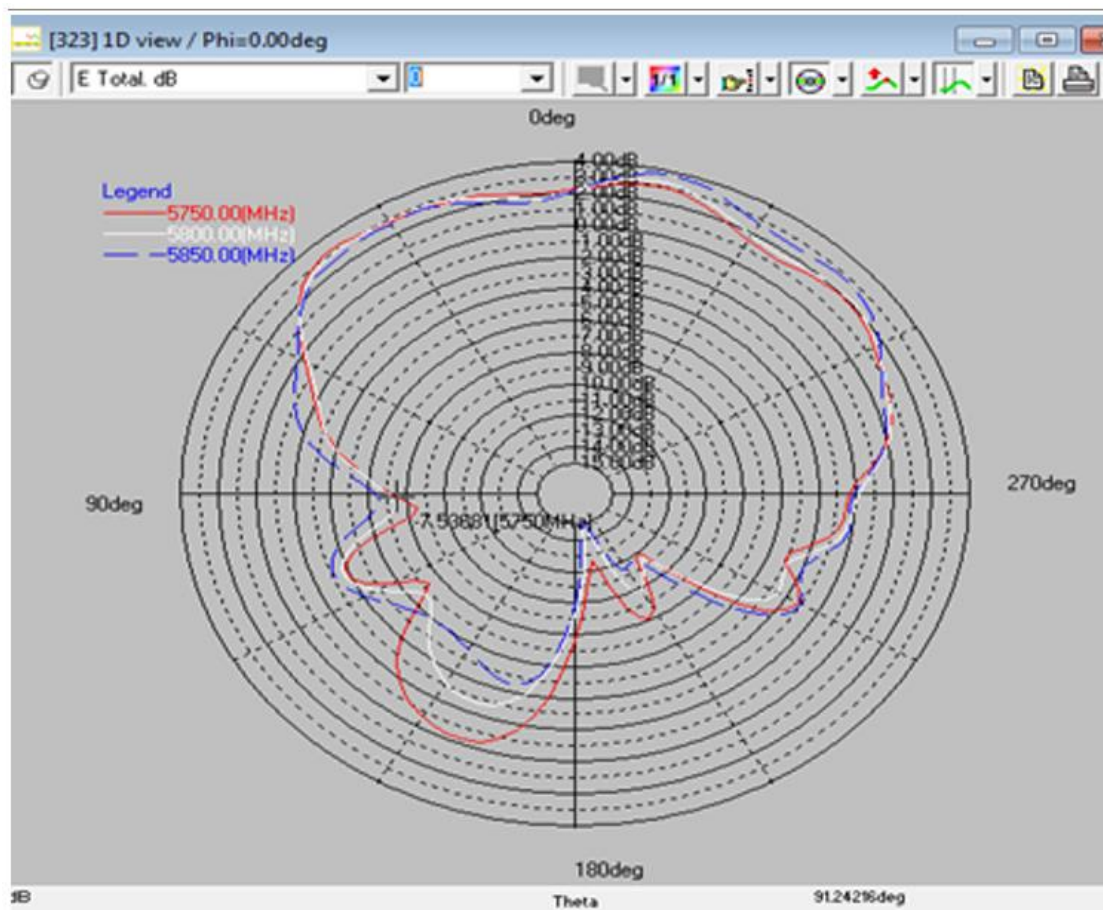


3.2 5.8G radiation pattern

Phi=0



$\Phi=90$



4、 Structure drawing

Please refer to antenna photo.