

Antenna Specification

Customer: Actions Microelectronics Co., Ltd.

Customer's part number: ANT-PCB-011

Product description: 2.4G/5G Dual Frequency Antenna

Manufacturer : Shenzhen RedbirdTek Technology Co., Ltd./銳博泰科技有限
公司

Manufacturer Address: 201, No.9 Building, Software Park, KeJiZhong Er Road,
GaoXinQu, NanShan, Shenzhen, China

Antenna Specification

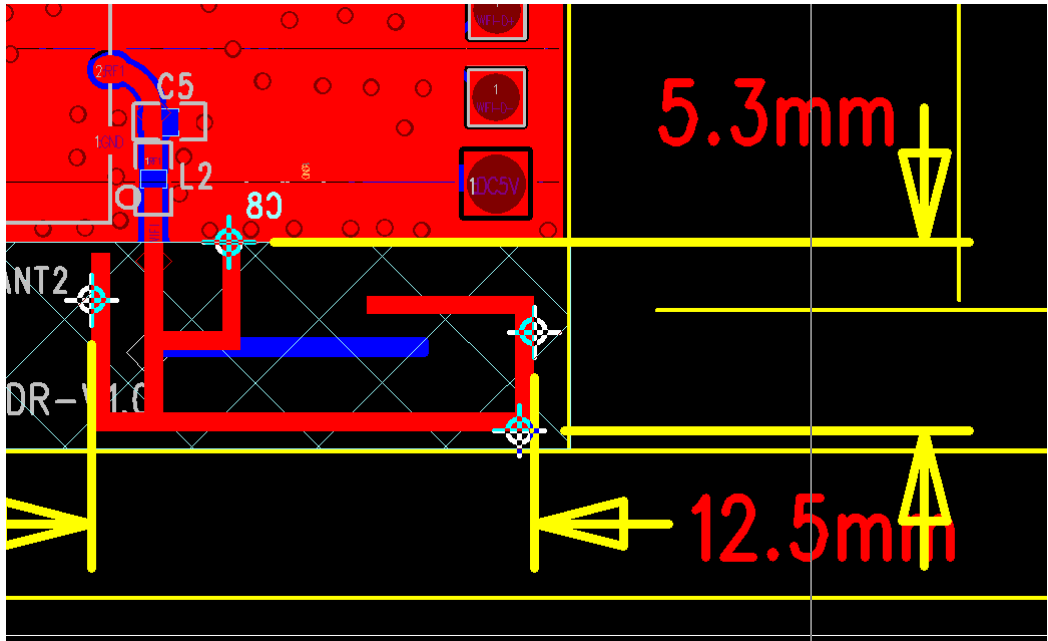
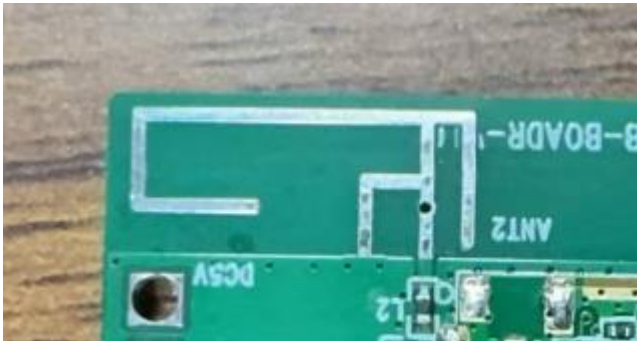
Electrical Properties

Feature	2.4/5G WIFI
Frequency (GHz)	2.4-2.5 ;5.1-5.85
VSWR	≤ 2.5
Gain(Peak) (dBi)	-0.8dBi@2.4g; 2dBi@5g;
Impedance (Ω)	50
Polarization	Linear
Antenna form	PIFA

Physical Properties

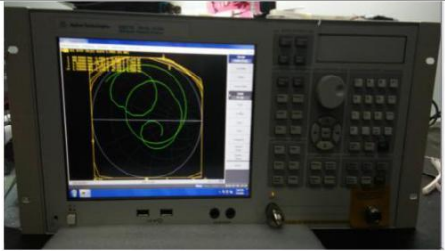
Feature	2.4/5G WIFI
SIZE	12.5x5.3mm ;
Material	PCB
Colour	
Type	
Model	
Operating Temperature	-40℃-65℃
Storage Temperature	-40℃-80℃

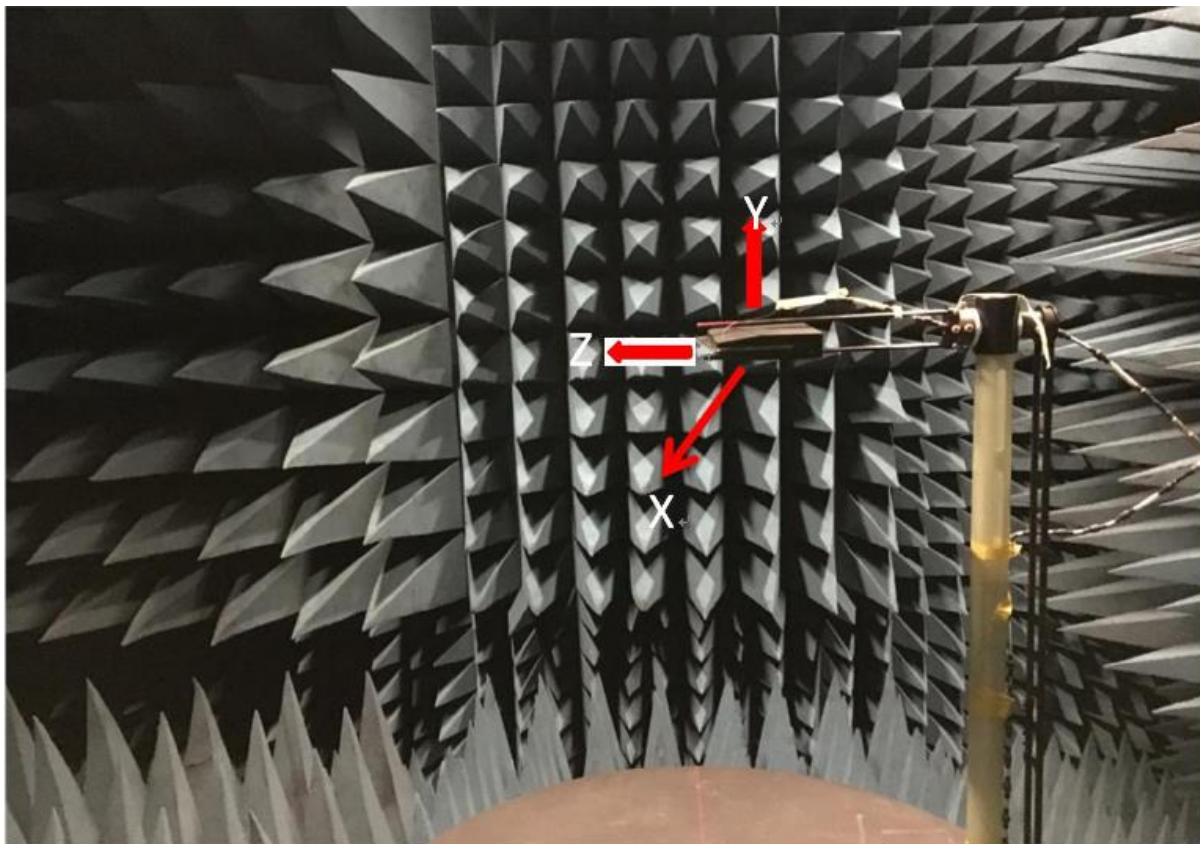
Antenna Assembly (2.4-5G)



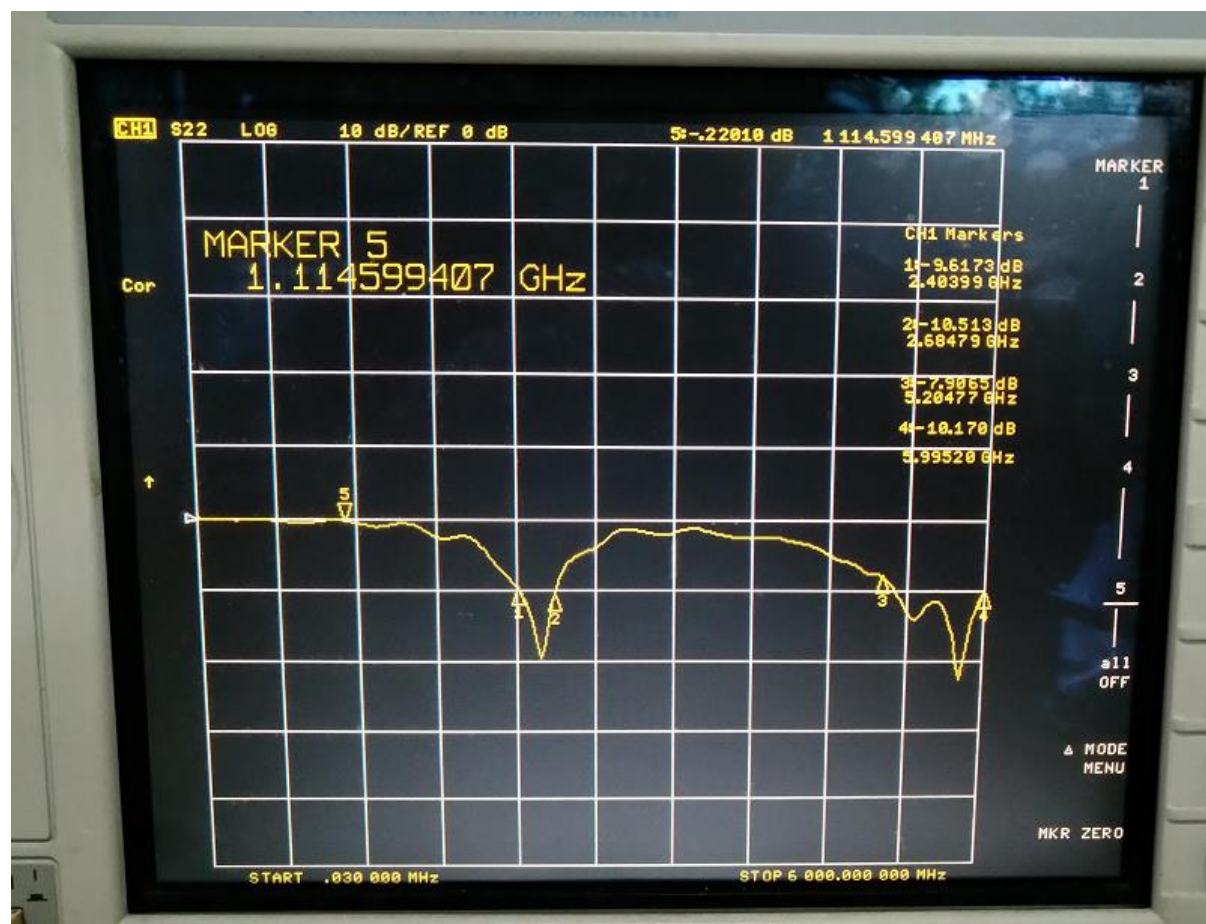
Test Report

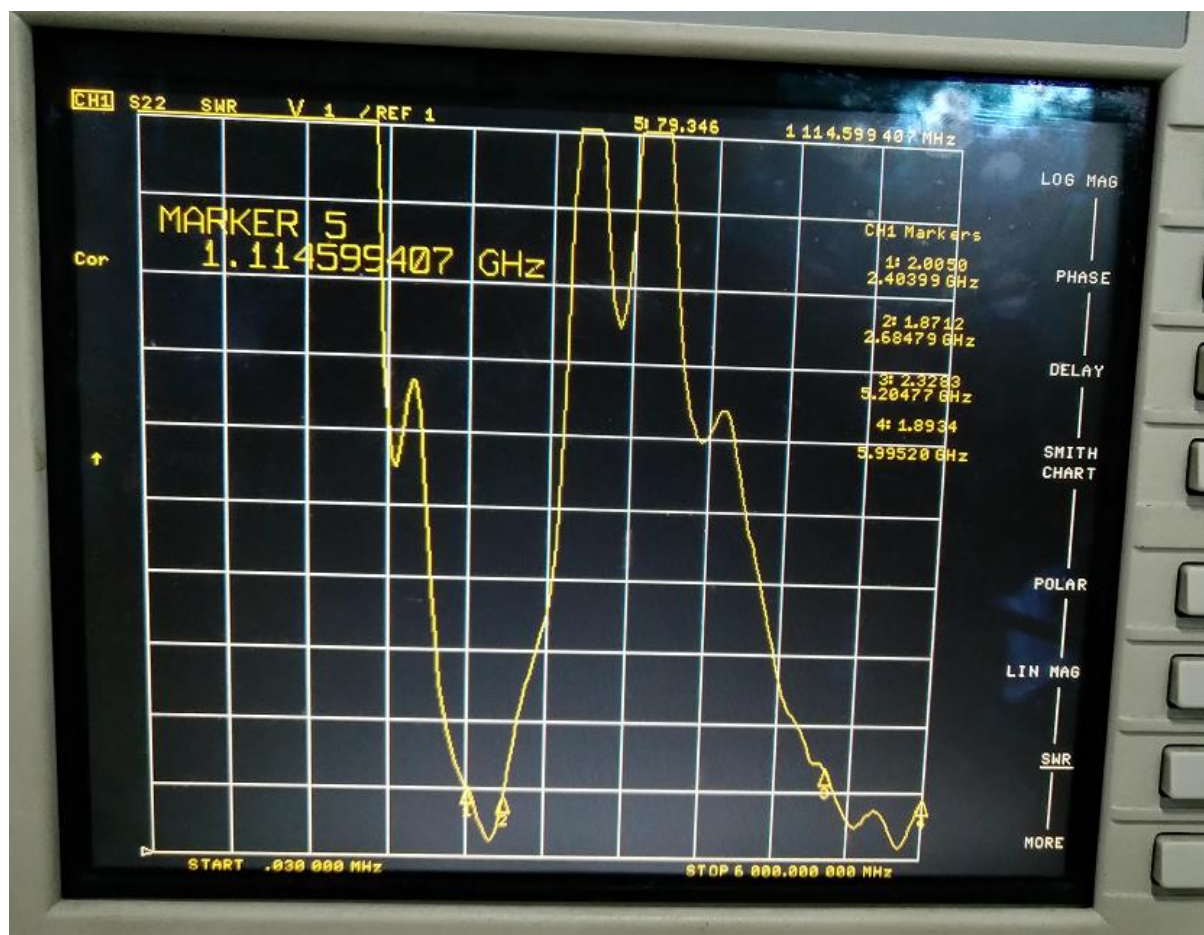
Test Equipment

Serial number	Device name	Euipment pictures	Test index	
1	Atenlab 3D			
2	Agilent E5071C			



Return Loss/VSWR/Smith chart (**2.4-5G**) :





Return Loss/VSWR/Smith chart (**2.4-5G**)

Freq (GHZ)	2.4	2.68	5.20	6
Return loss(dB)	-9.6	-10	-8	-10

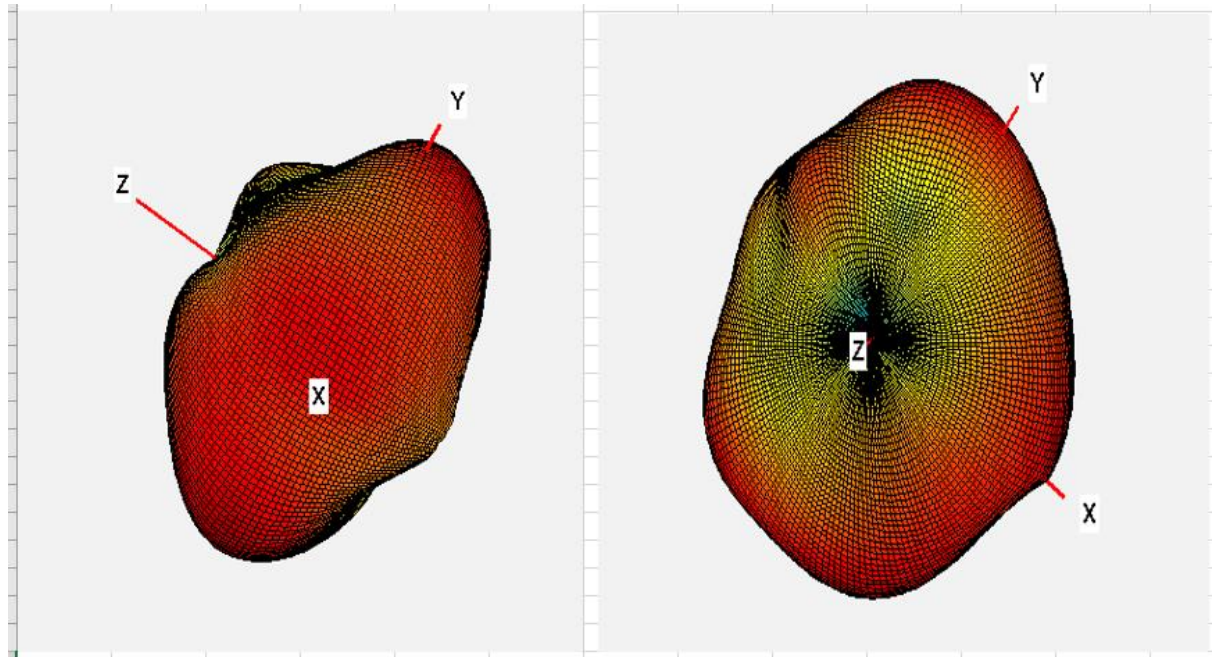
VSWR	2	1.87	2.32	1.89
------	---	------	------	------

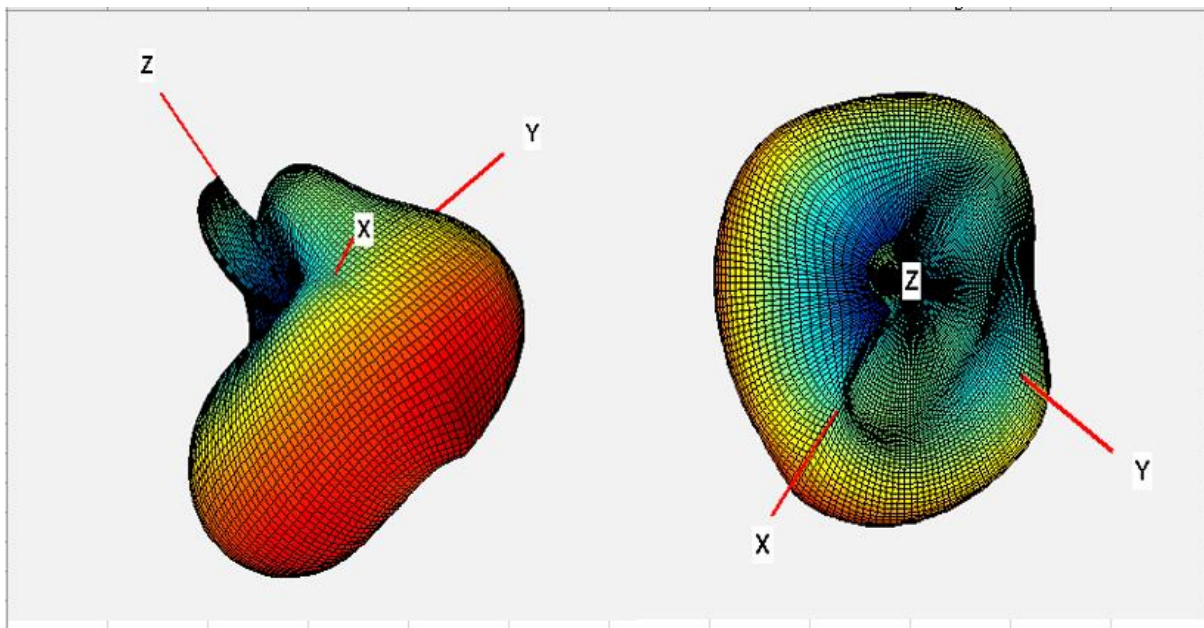
Antenna gain/Efficiency

Frequency(GHz)	2.4	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48
Efficiency(%)	28.84	29.51	29.72	32.06	32.58	34.36	36.73	37.15	36.56
Peak Gain(dBi)	-0.77	-0.8	-0.96	-0.83	-0.82	-0.93	-1.06	-1.06	-1.13

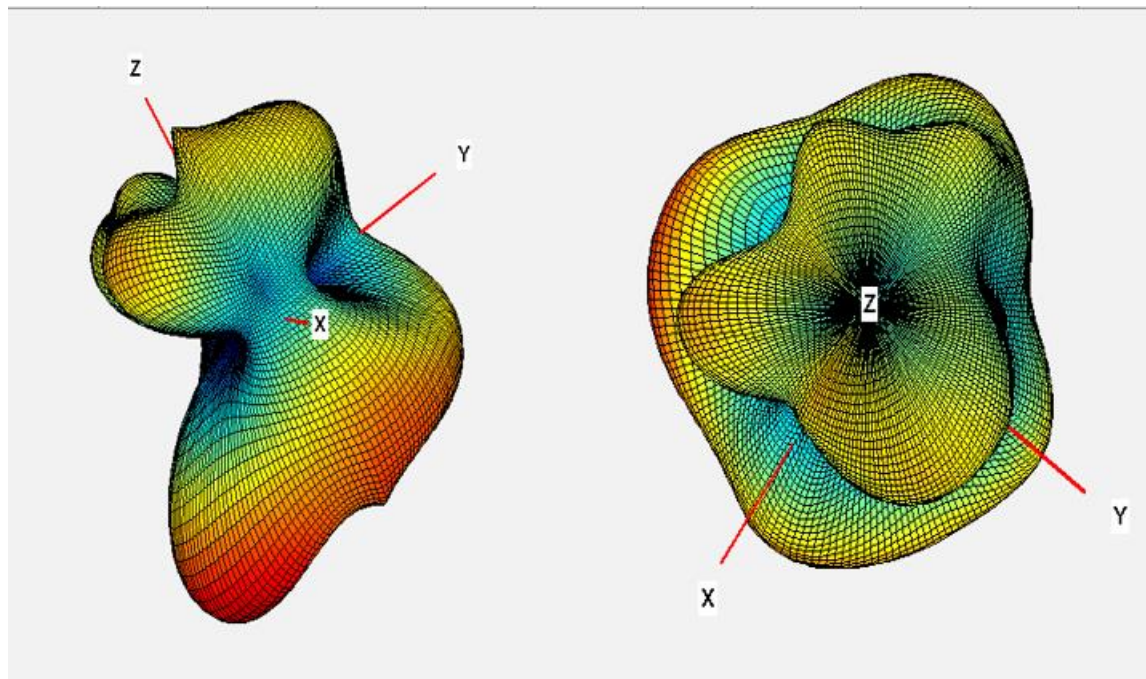
Frequency(GHz)	5	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8
Efficiency(%)	21.88	28.12	25.12	37.15	38.73	48.87	42.27	39.36	40.64
Peak Gain(dBi)	-0.71	0.6	0.39	1.48	0.26	0.32	1.16	2.00	1.76

2400

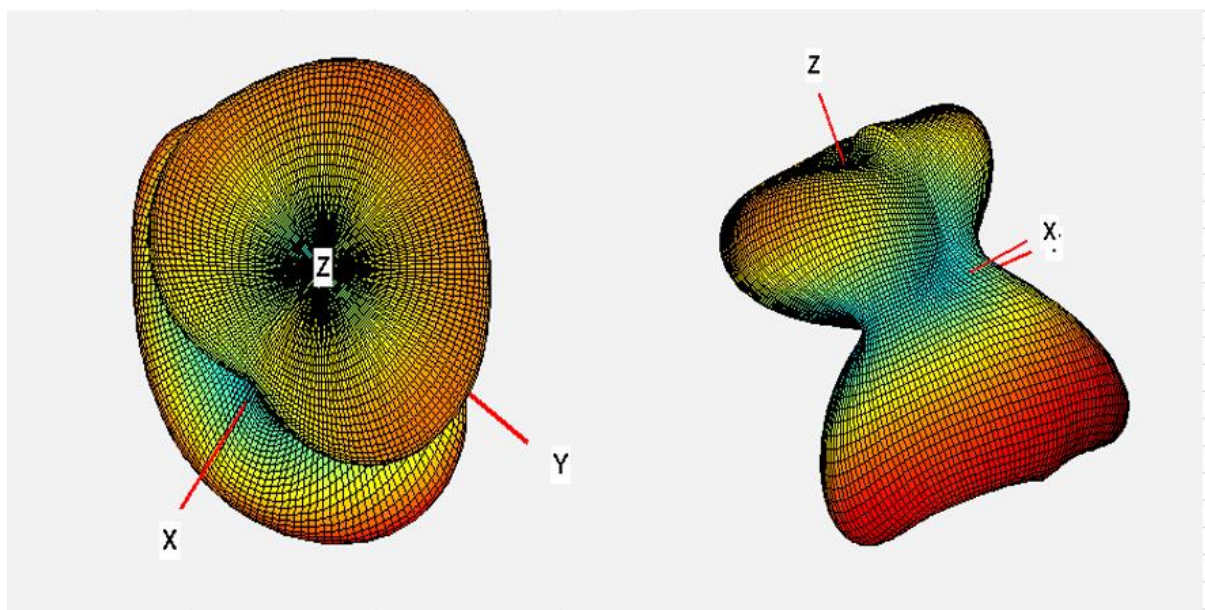




5250



5500



5800