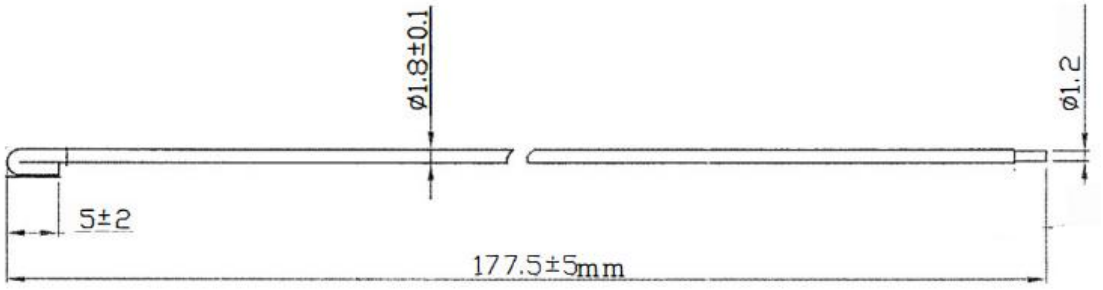
ANTENNA SPECIFICATION

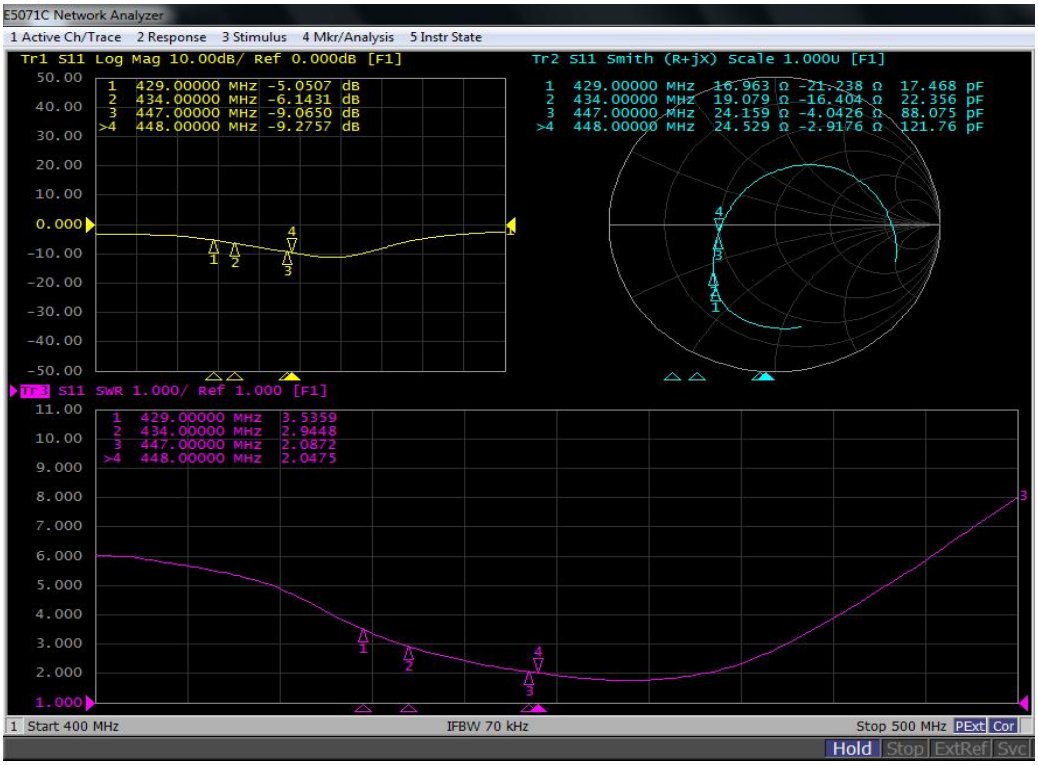
Product Name:	433.92MHz antenna
Product Model:	DC1066-01-27
Manufacturer:	Ningbo Dooya Mechanic & Electronic Technology Co., Ltd
Address:	No.168 Shengguang Road, Luotuo, Zhenhai, Ningbo, ZHEJIANG, China
Prepared Date:	2025/4/12
Prepared By:	胡海林 Hailin Hu
Checked By:	唐继光 Jiguang Tang
Approved By：	金超 Chao Jin

1. Antenna Plan



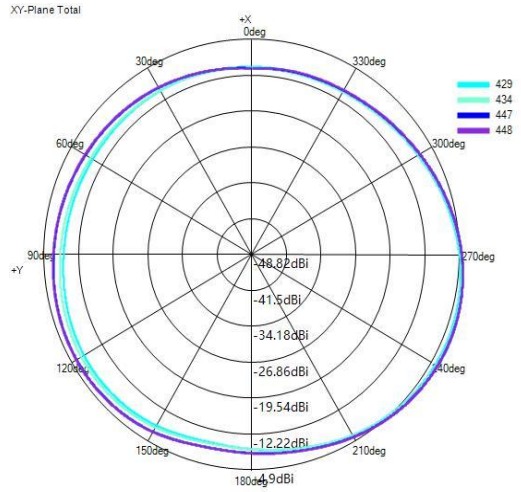
Frequency Range:	429 - 448 MHz
VSWR:	< 3.0
Maximum Gain:	-3.22 dBi
Polarization:	Vertical
Impedance:	50 Ω

2. 2D / 3D Test Data

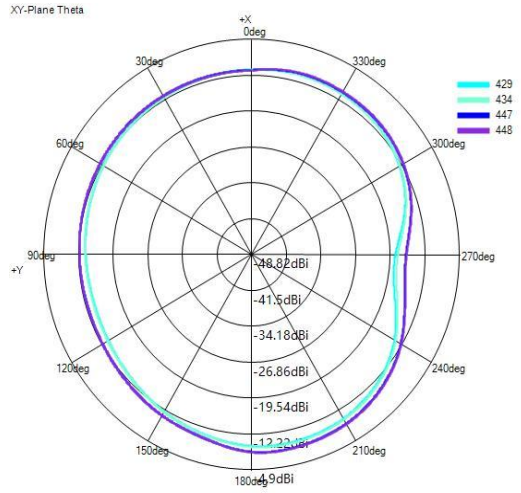


Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
429	-3.98	-7.78	16.66
434	-3.90	-7.50	17.80
447	-3.22	-6.62	21.77
448	-3.31	-6.55	22.15

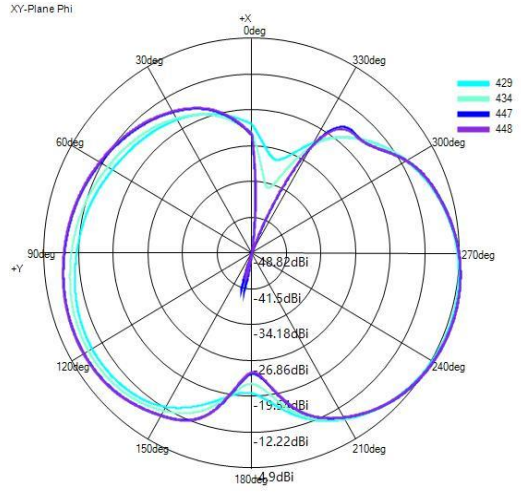
3. 2D Plot



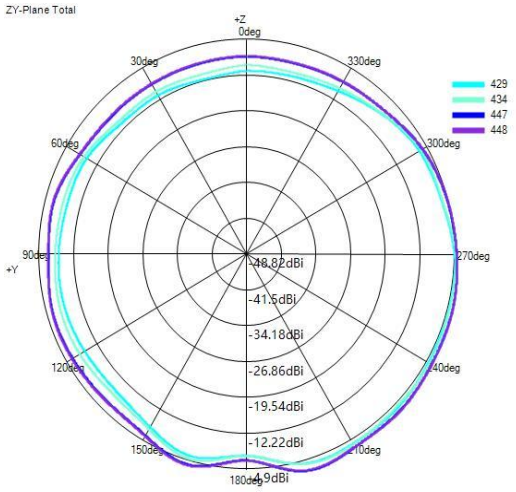
Freq.	Max.	Ave.	Min.
429MHz	-4.14	-7.32	-9.61
434MHz	-3.95	-7.12	-9.82
447MHz	-3.71	-6.61	-9.83
448MHz	-3.73	-6.58	-9.88



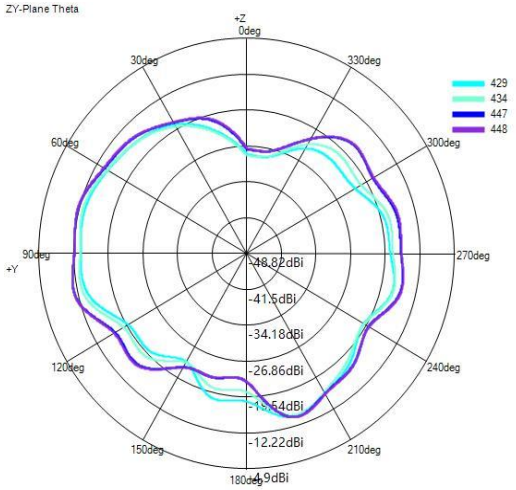
Freq.	Max.	Ave.	Min.
429MHz	-8.86	-10.95	-16.22
434MHz	-8.69	-10.88	-15.77
447MHz	-7.91	-10.21	-14.35
448MHz	-7.83	-10.16	-14.25



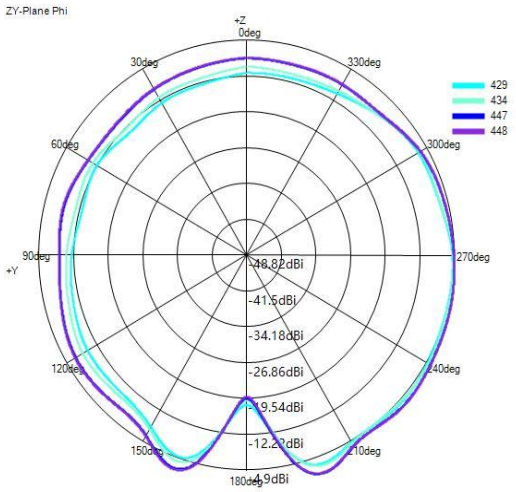
Freq.	Max.	Ave.	Min.
429MHz	-4.52	-9.79	-25.03
434MHz	-4.31	-9.49	-30.01
447MHz	-4.20	-9.10	-49.30
448MHz	-4.24	-9.09	-45.96



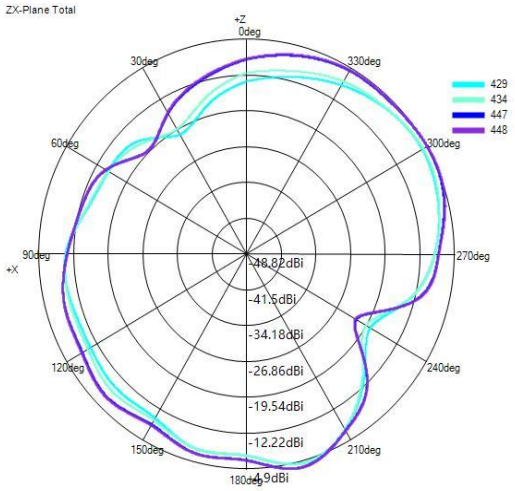
Freq.	Max.	Ave.	Min.
429MHz	-4.20	-7.13	-10.79
434MHz	-4.04	-6.77	-9.88
447MHz	-3.22	-5.81	-8.06
448MHz	-3.36	-5.75	-7.96



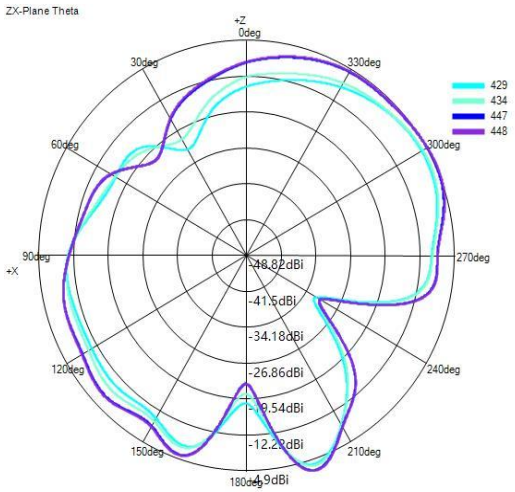
Freq.	Max.	Ave.	Min.
429MHz	-12.01	-15.90	-24.56
434MHz	-11.64	-15.66	-24.83
447MHz	-10.64	-14.53	-23.79
448MHz	-10.60	-14.44	-23.63



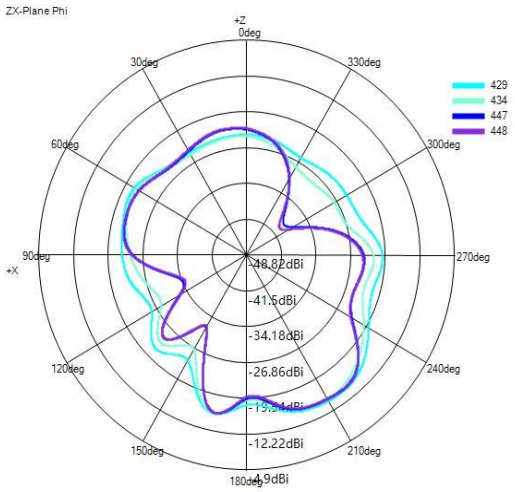
Freq.	Max.	Ave.	Min.
429MHz	-4.54	-7.74	-15.98
434MHz	-4.48	-7.37	-16.74
447MHz	-3.73	-6.43	-17.09
448MHz	-3.81	-6.38	-17.38



Freq.	Max.	Ave.	Min.
429MHz	-4.59	-9.35	-17.97
434MHz	-4.56	-9.06	-17.24
447MHz	-3.92	-7.93	-19.24
448MHz	-3.86	-7.83	-19.43

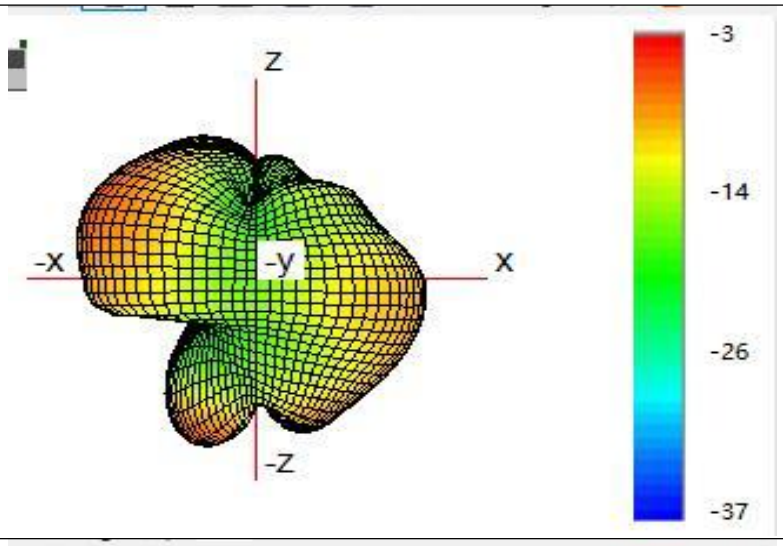
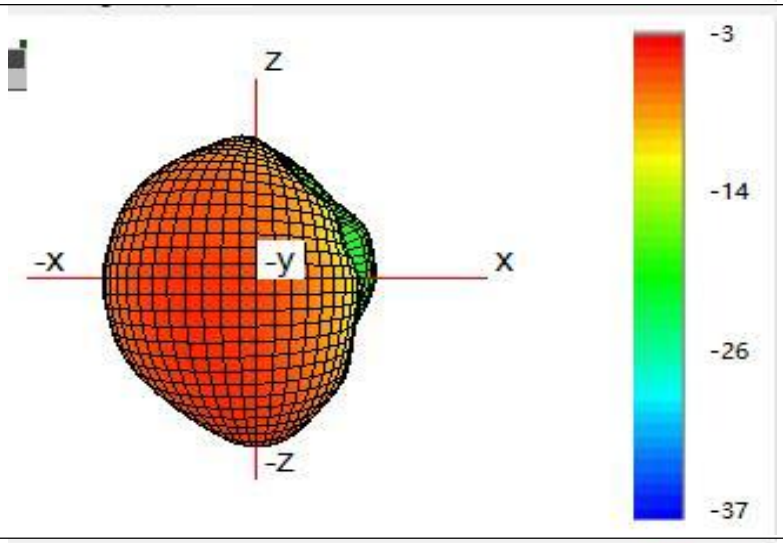
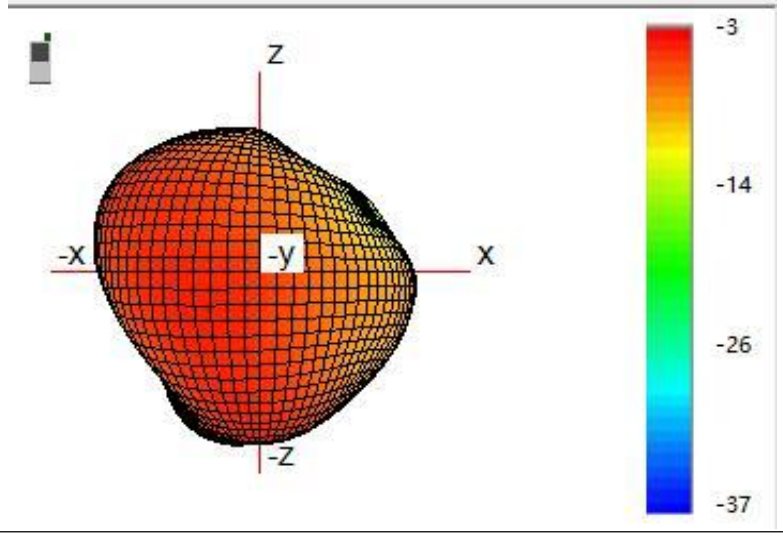


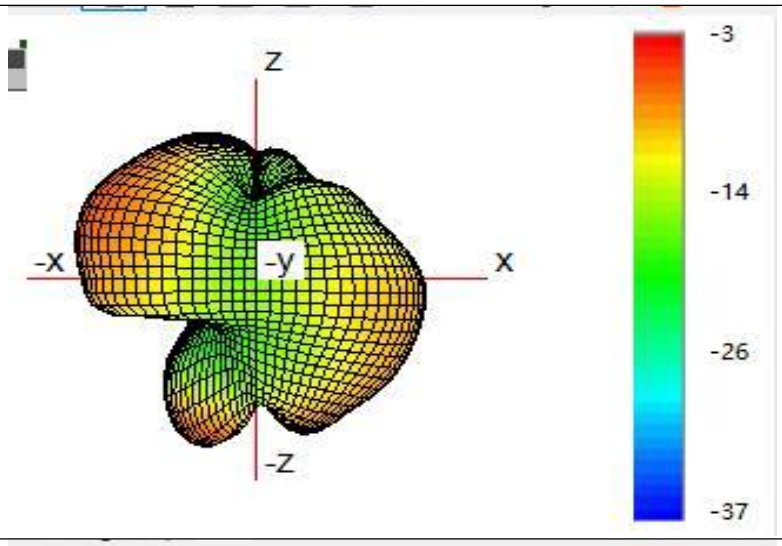
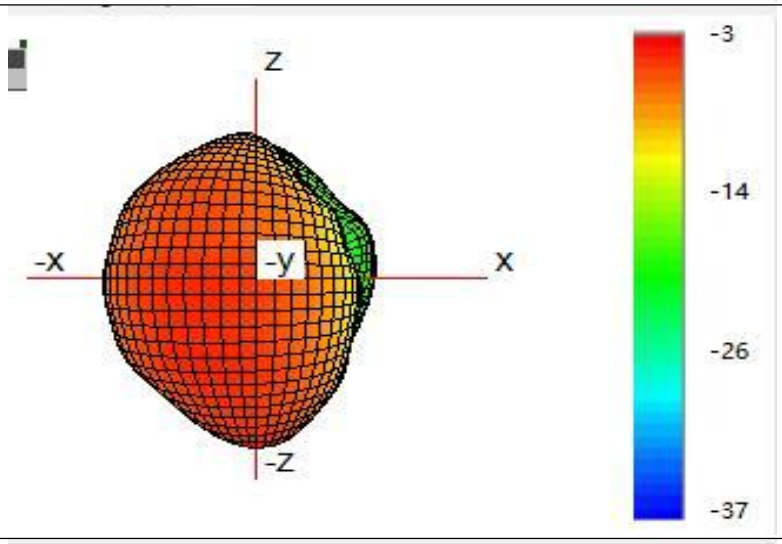
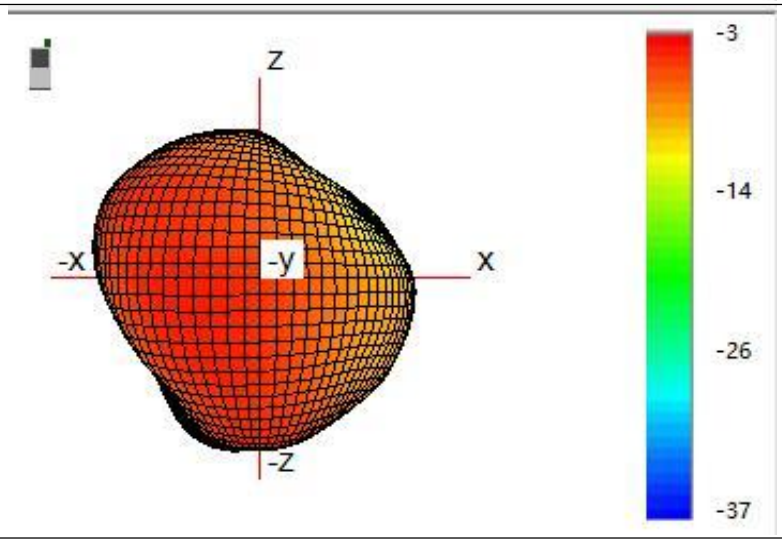
Freq.	Max.	Ave.	Min.
429MHz	-5.13	-9.94	-27.41
434MHz	-5.02	-9.49	-26.47
447MHz	-4.33	-8.23	-26.56
448MHz	-4.24	-8.12	-26.55



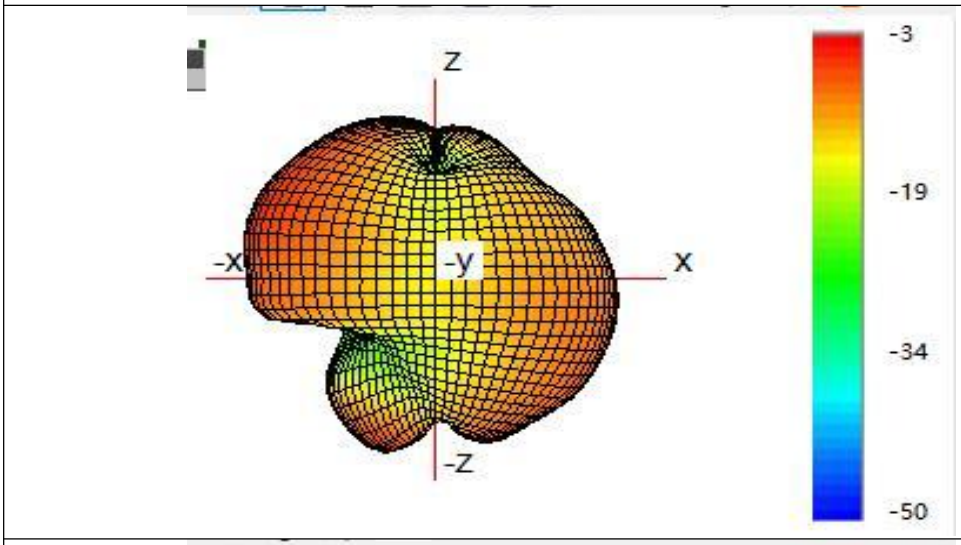
Freq.	Max.	Ave.	Min.
429MHz	-12.80	-18.30	-22.39
434MHz	-13.14	-19.26	-24.57
447MHz	-13.18	-19.67	-32.39
448MHz	-13.22	-19.68	-33.19

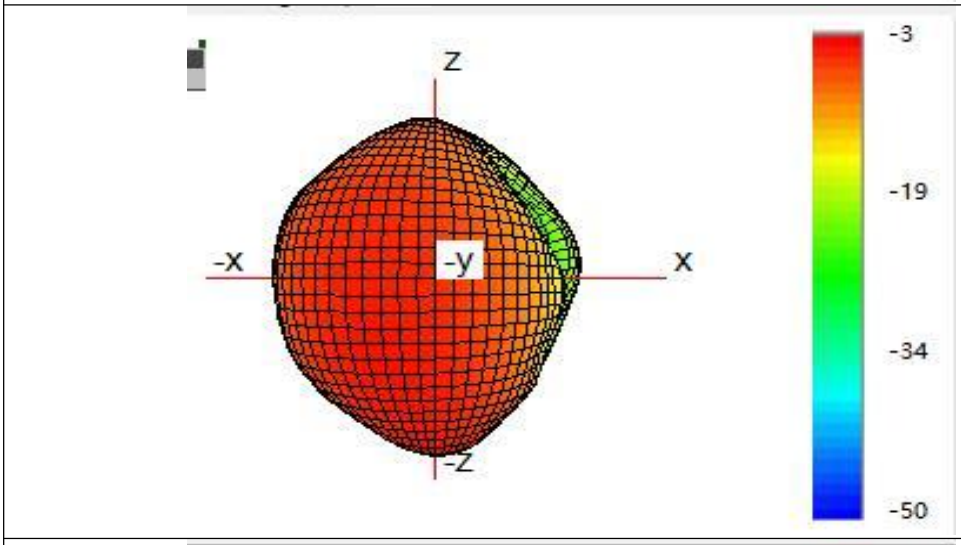
4. 3D Plot

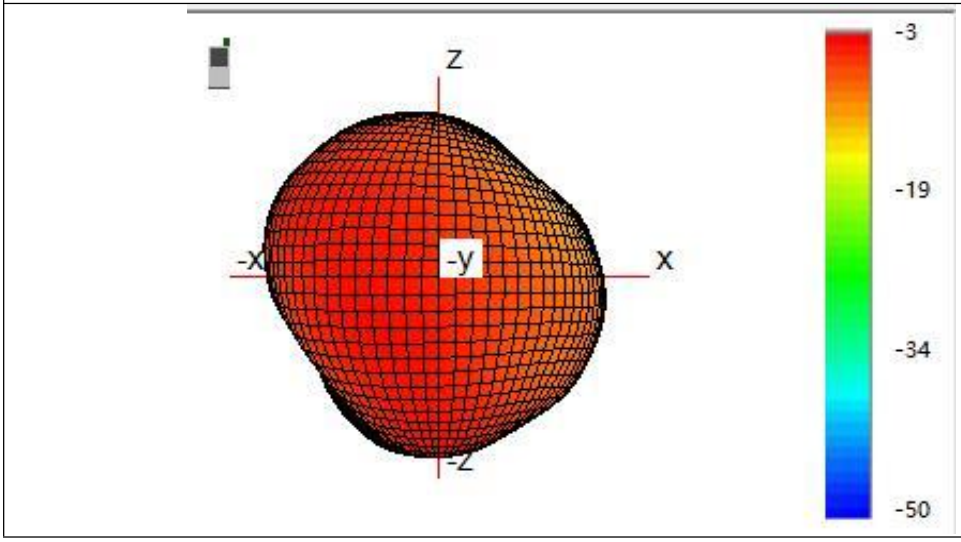
429MHz; Y-




434MHz; Y-
 Z -X -y X -Z -3 -14 -26 -37
 Z -X -y X -Z -3 -14 -26 -37
 Z -X -y X -Z -3 -14 -26 -37

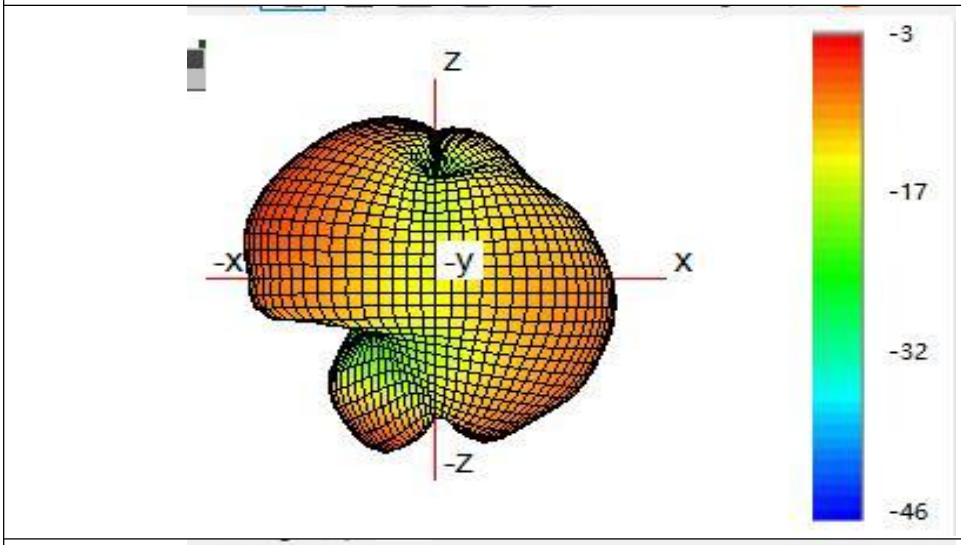
447MHz; Y-

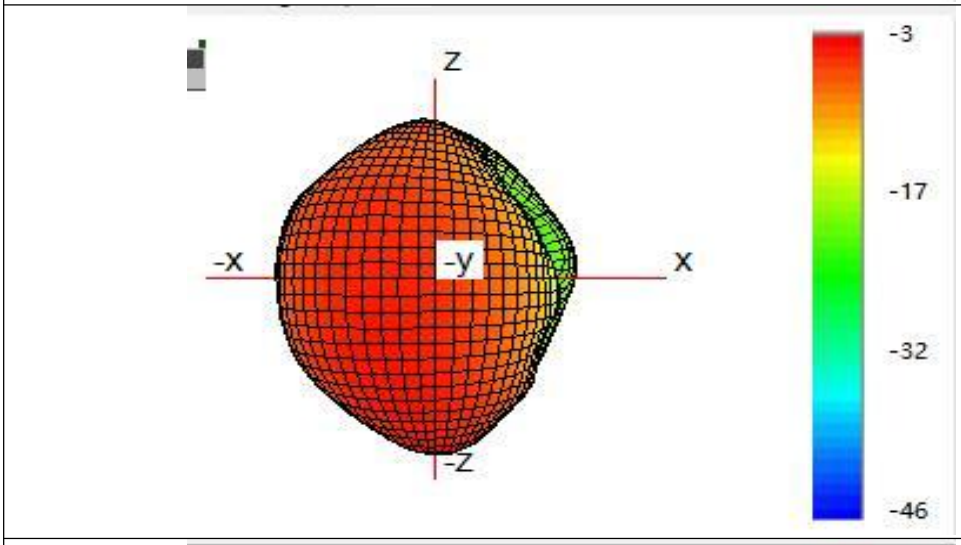


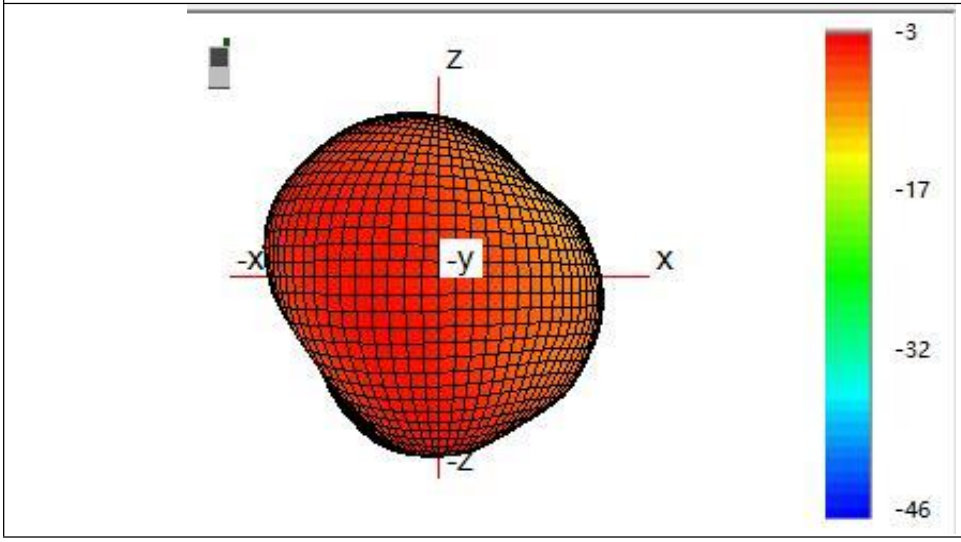




448MHz; Y-







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