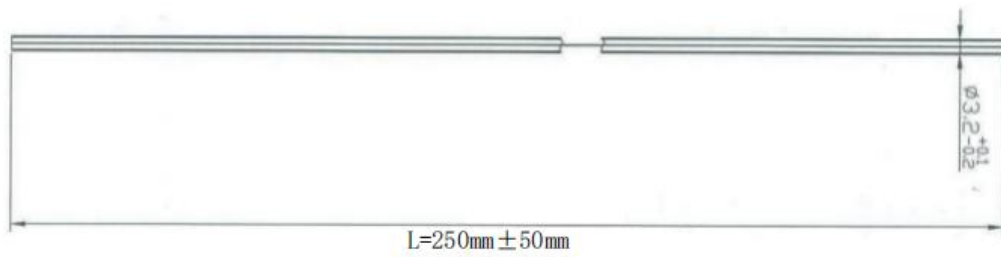


ANTENNA SPECIFICATION

Product Name:	433.92MHz antenna
Product Model:	H03RN-F
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

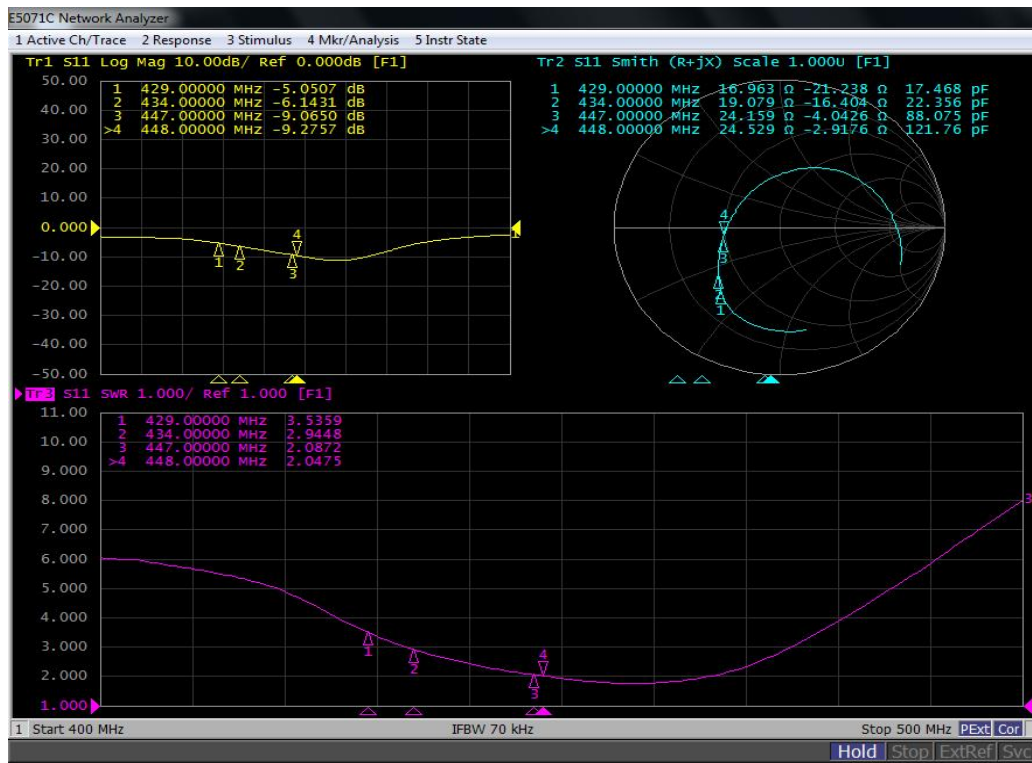


1. Antenna Plan



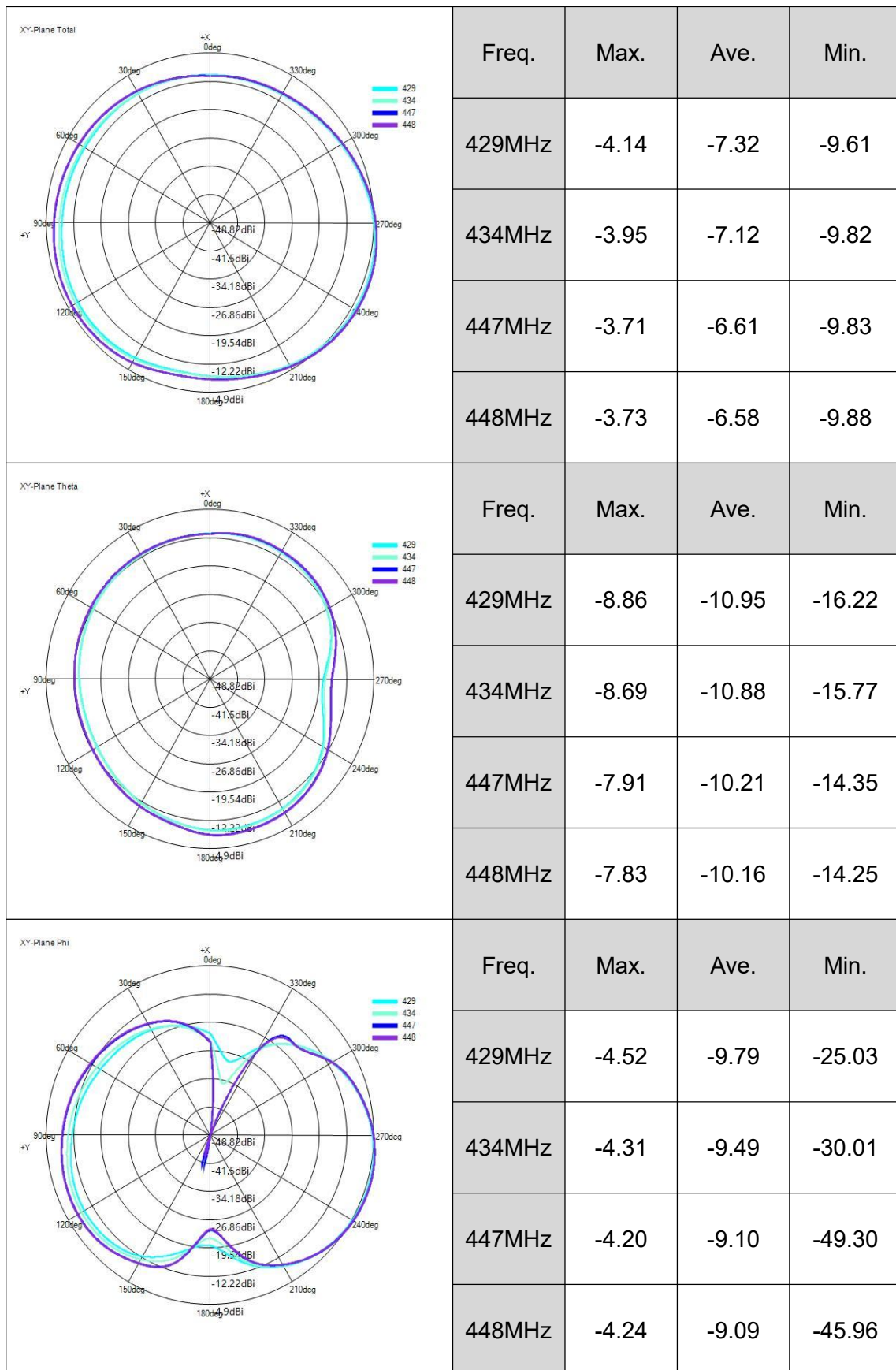
Frequency Range:	429 - 448 MHz
VSWR:	< 3.0
Maximum Gain:	-3.22 dBi
Polarization:	Vertical
Impedance:	50 Ω

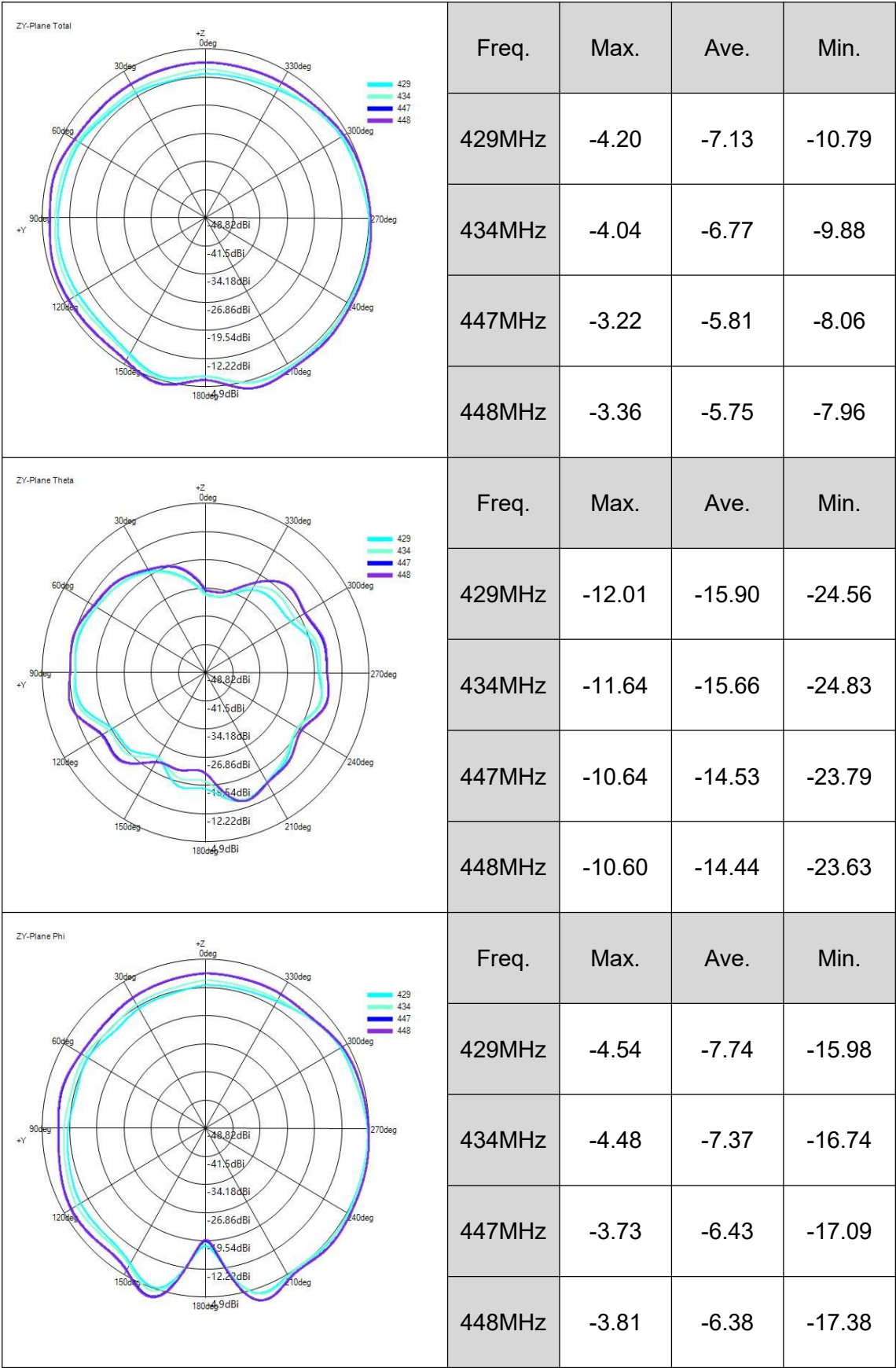
2. 2D / 3D Test Data

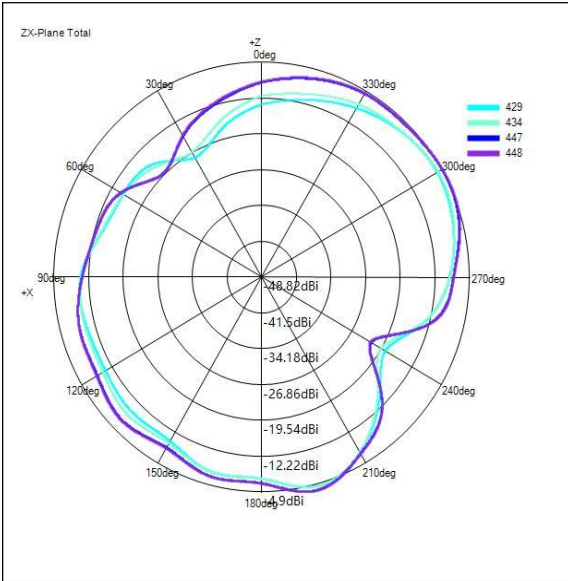


Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
429	-3.98	-7.78	16.66
434	-3.90	-7.50	17.80
447	-3.22	-6.62	21.77
448	-3.31	-6.55	22.15

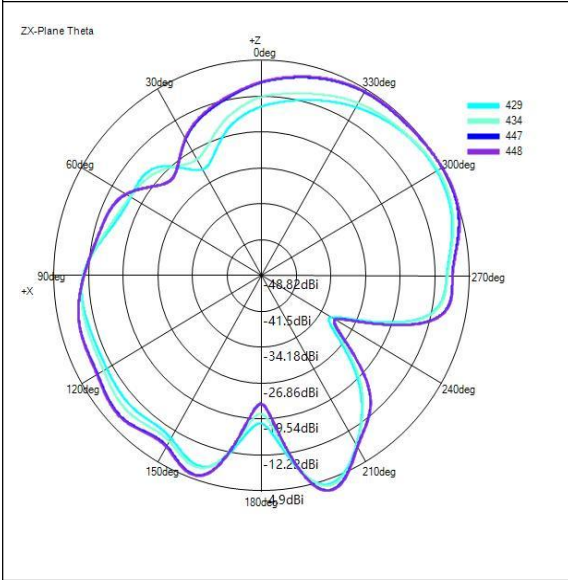
3. 2D Plot



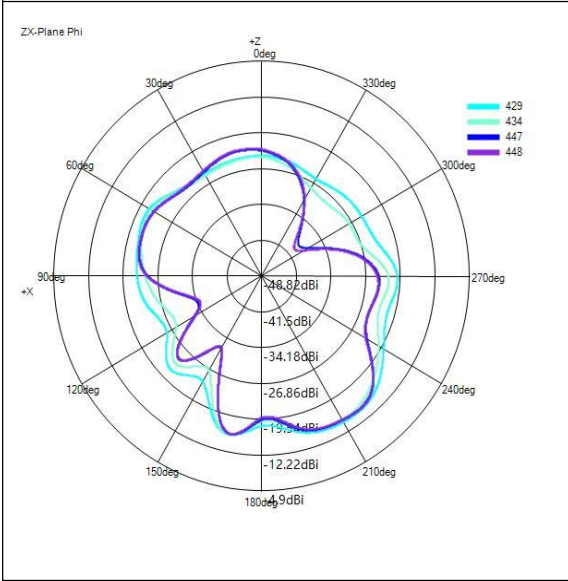




Freq.	Max.	Ave.	Min.
429MHz	-4.59	-9.35	-17.97
434MHz	-4.56	-9.06	-17.24
447MHz	-3.92	-7.93	-19.24
448MHz	-3.86	-7.83	-19.43



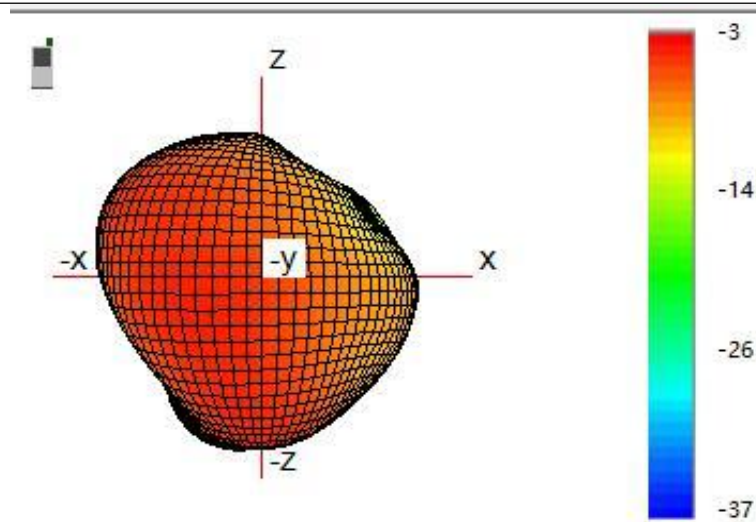
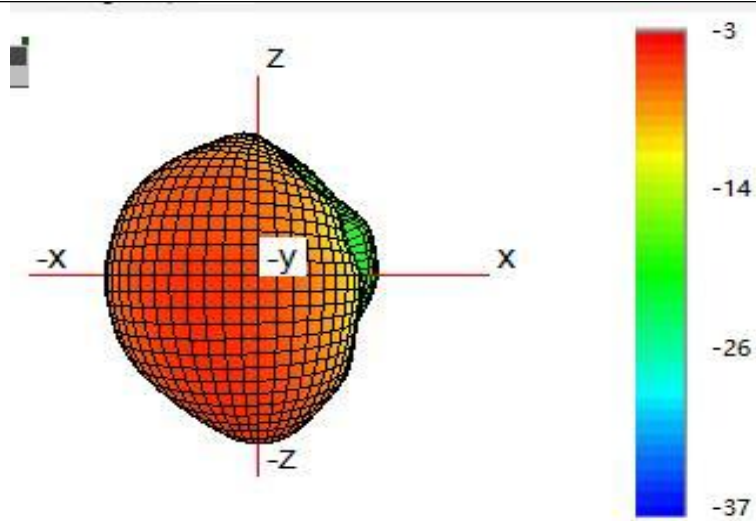
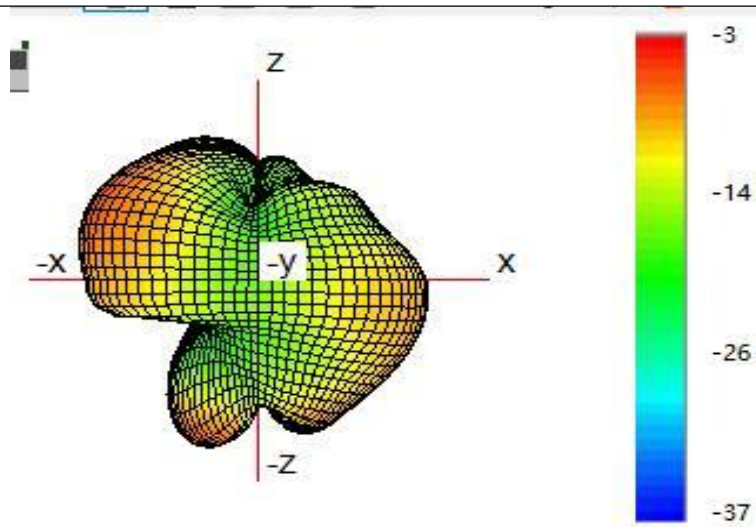
Freq.	Max.	Ave.	Min.
429MHz	-5.13	-9.94	-27.41
434MHz	-5.02	-9.49	-26.47
447MHz	-4.33	-8.23	-26.56
448MHz	-4.24	-8.12	-26.55



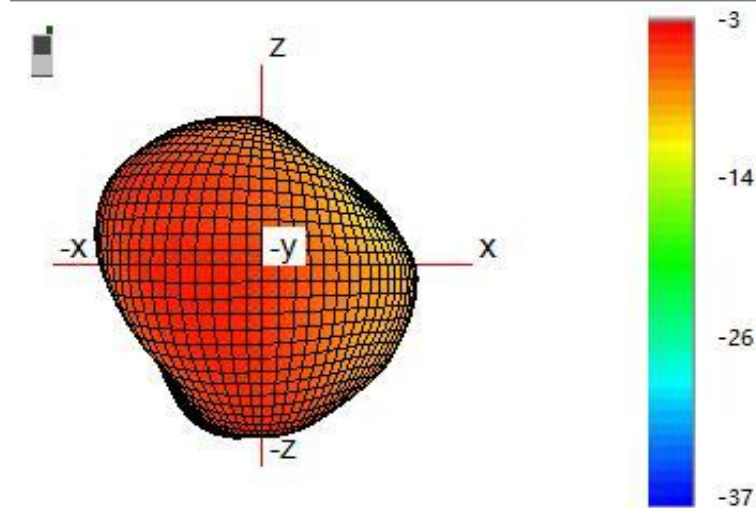
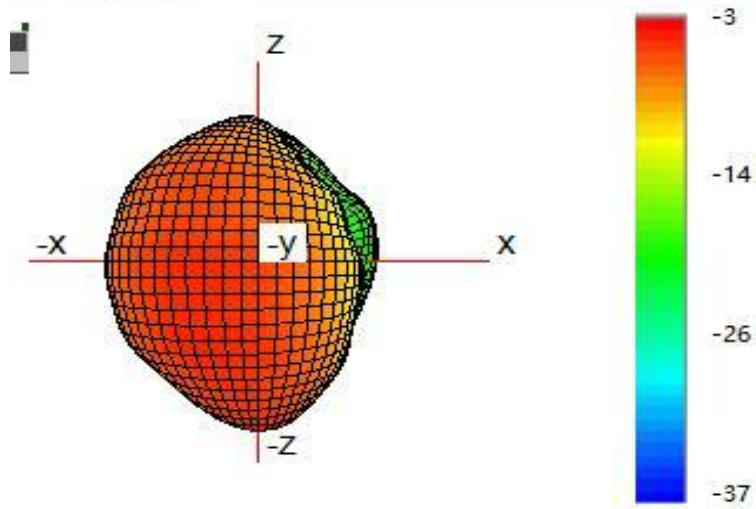
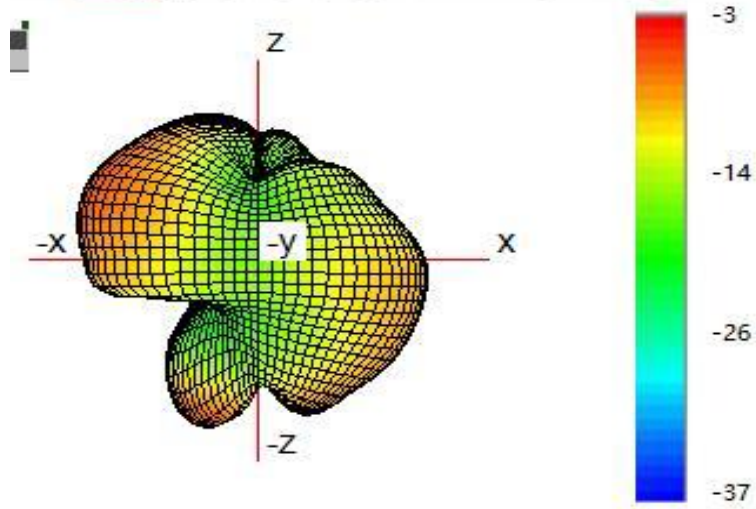
Freq.	Max.	Ave.	Min.
429MHz	-12.80	-18.30	-22.39
434MHz	-13.14	-19.26	-24.57
447MHz	-13.18	-19.67	-32.39
448MHz	-13.22	-19.68	-33.19

4. 3D Plot

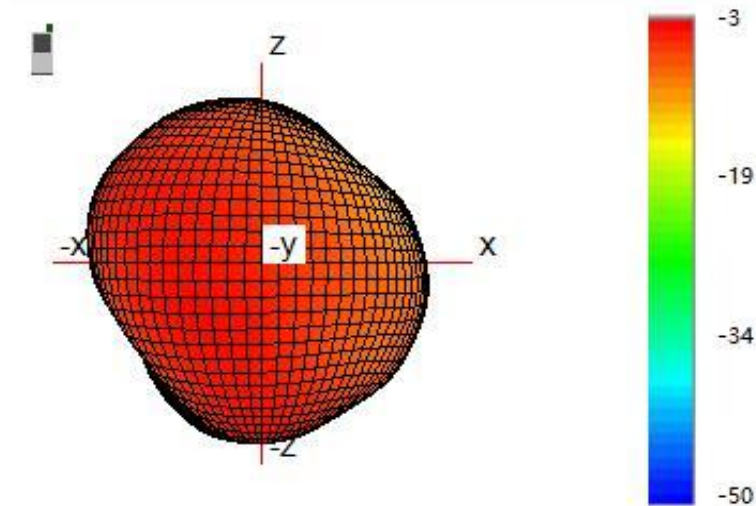
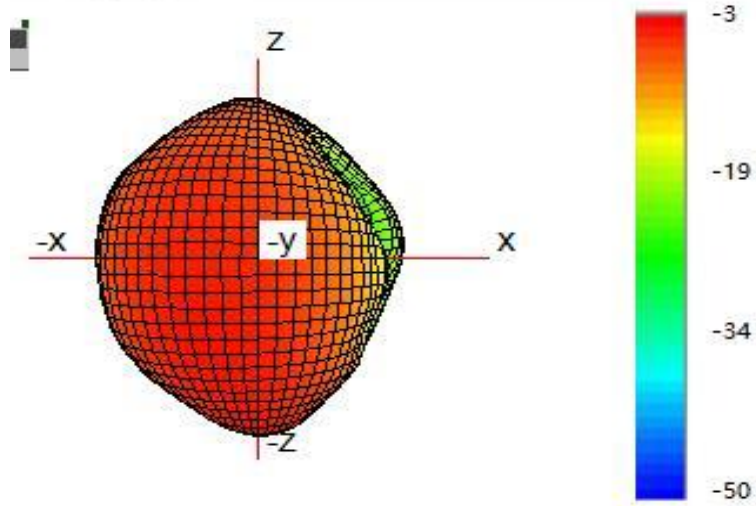
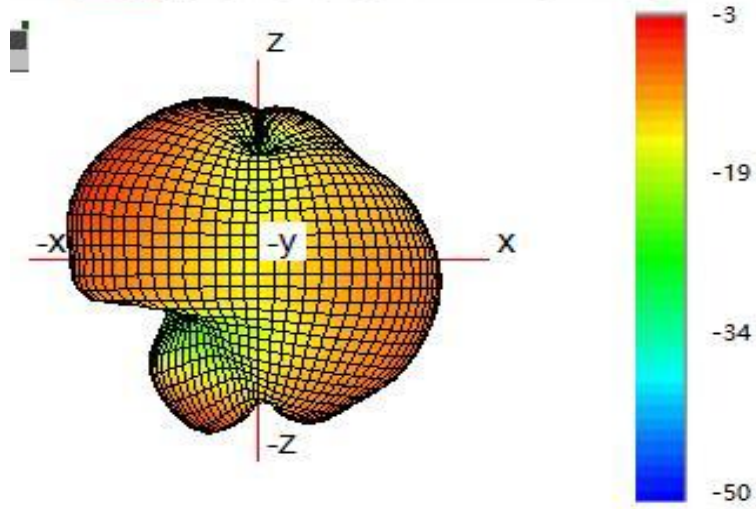
429MHz; Y-



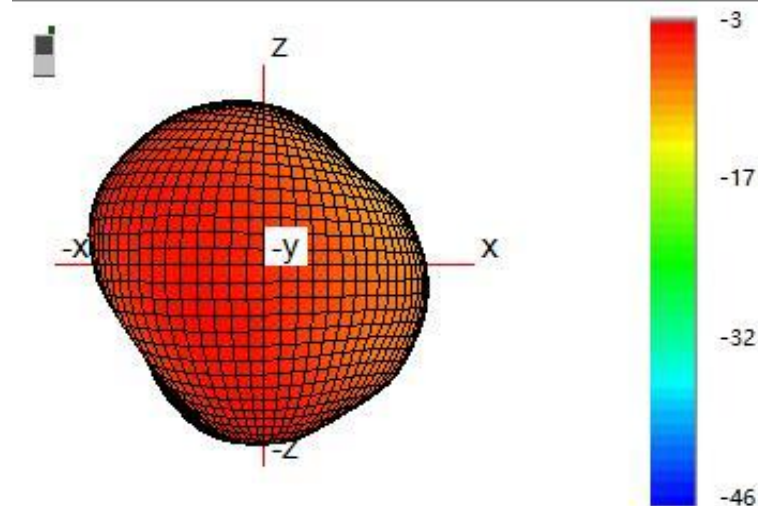
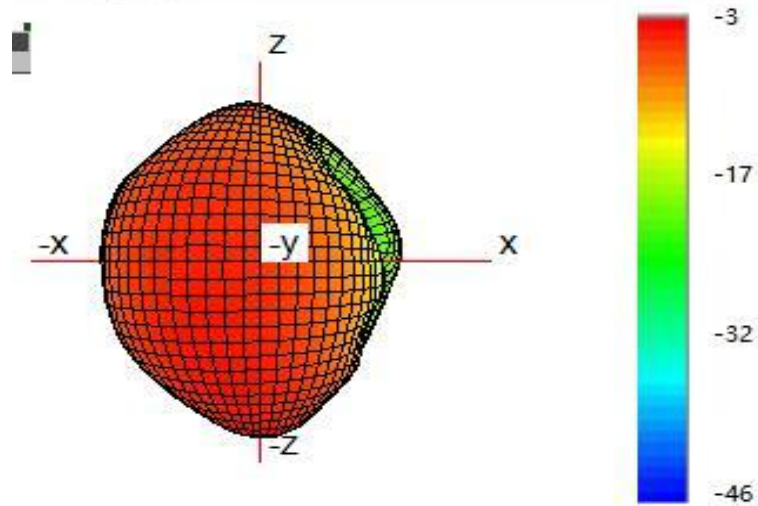
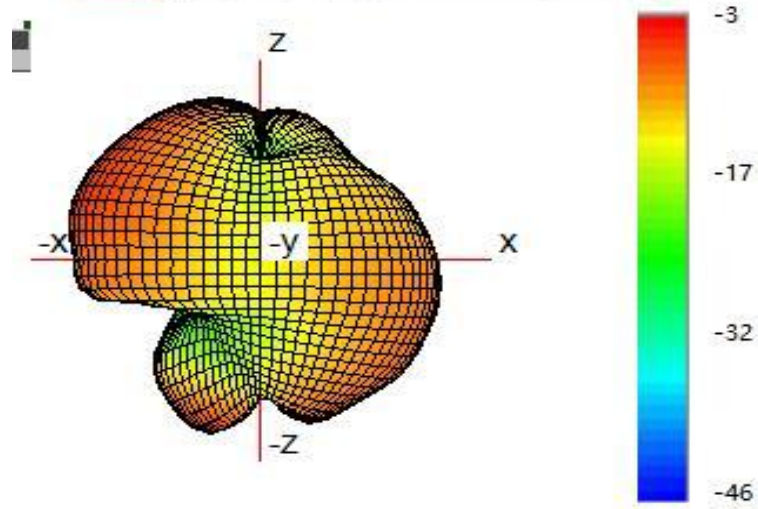
434MHz; Y-



447MHz; Y-



448MHz; Y-



---END---