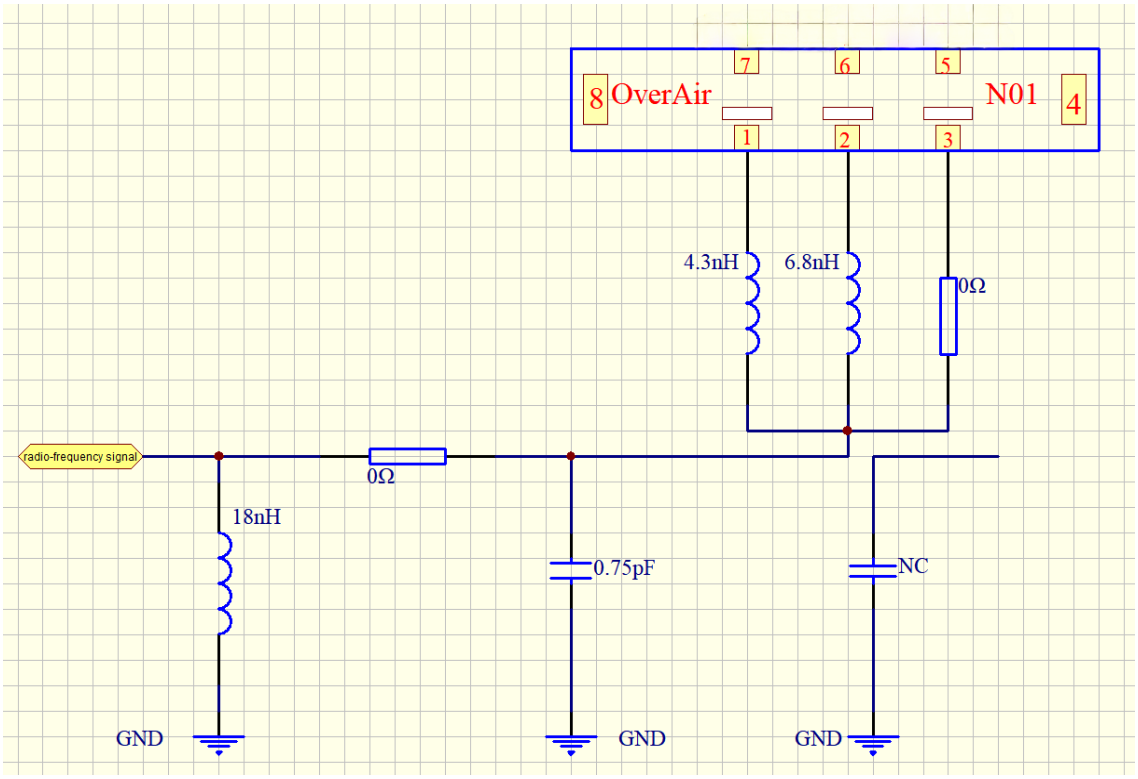
2026

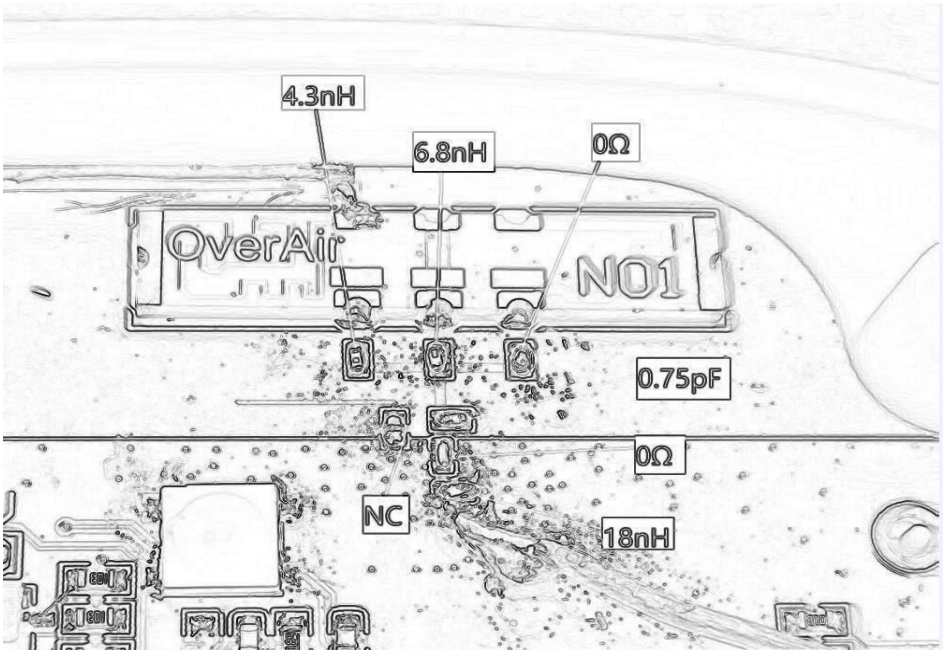
YT Innovations LLC
209-34 Northern Blvd PMC 1001, Bayside, New York, United States, 11361

Model:MS300

Match debugging data

The matching schematic diagram of the antenna after debugging



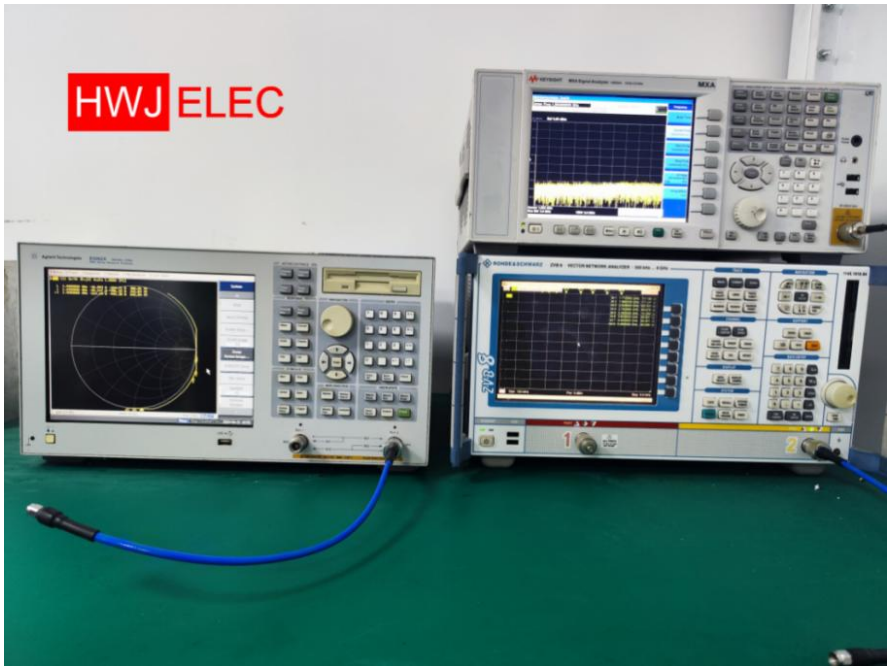


Note: The peripheral device values of the RF chip reference design requirements should be used in accordance with the reference design of the chip manufacturer. The above antenna matching devices are independent of each other and cannot be replaced

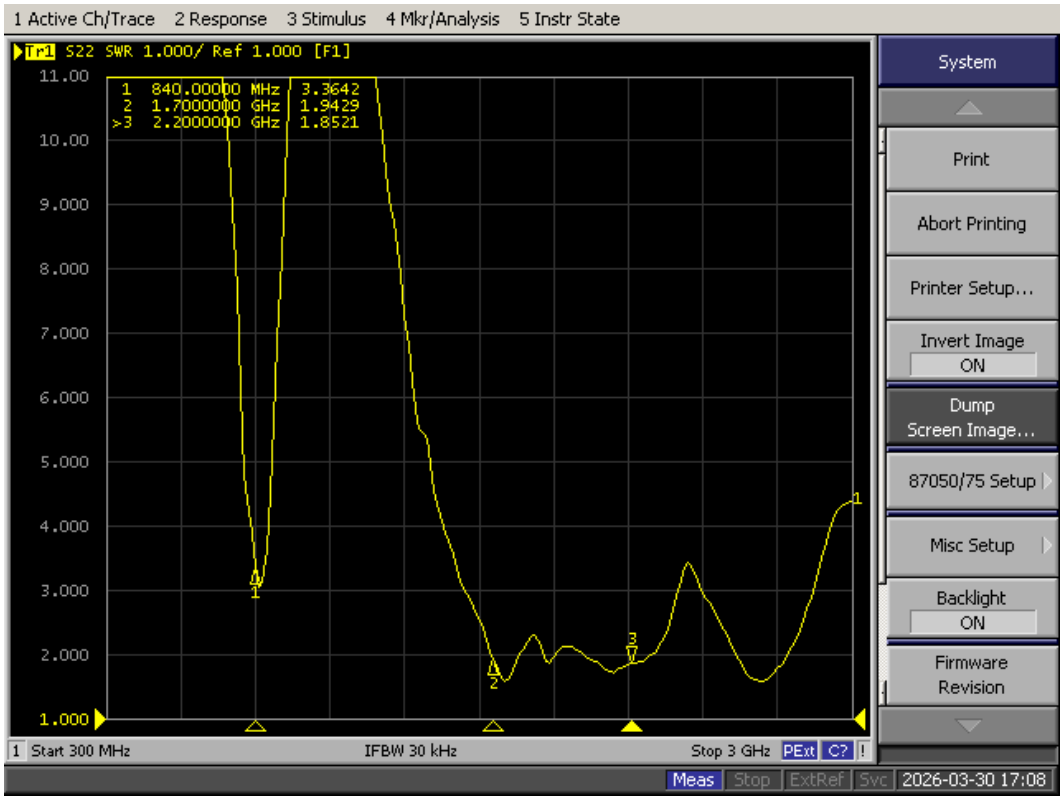
Device model

0.75pF	0402CGR75C500NT	FH
4.3nH	SDCL1005C4N3STDF	Sunlord
6.8nH	SDCL1005C6N8JTDF	Sunlord
18nH	SDCL1005C18NJTDF	Sunlord

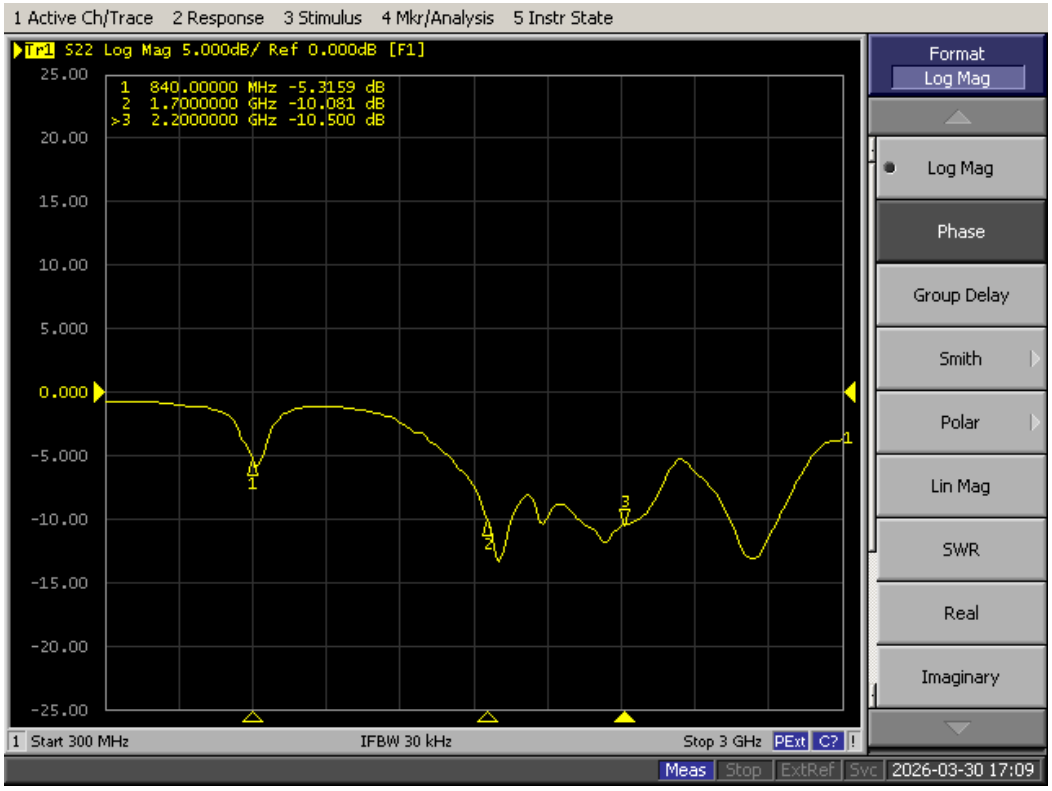
parameter testing



antenna standing wave ratio

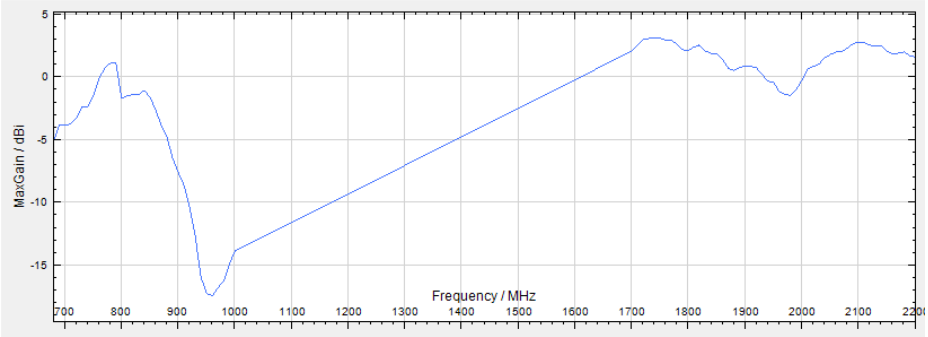


RL (return loss)

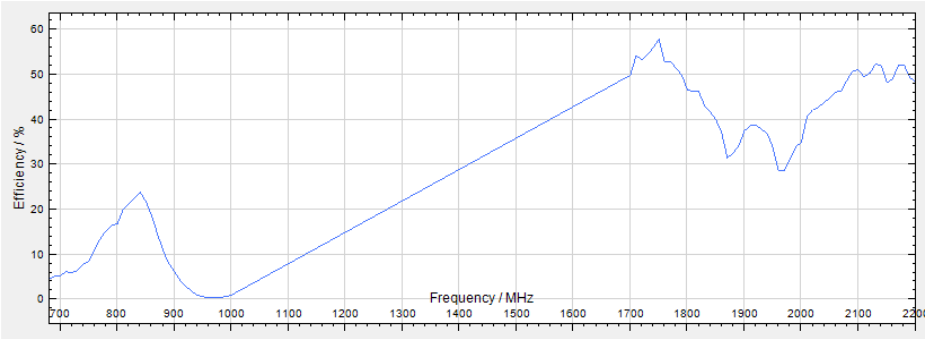


3D microwave anechoic chamber test

Gain graph

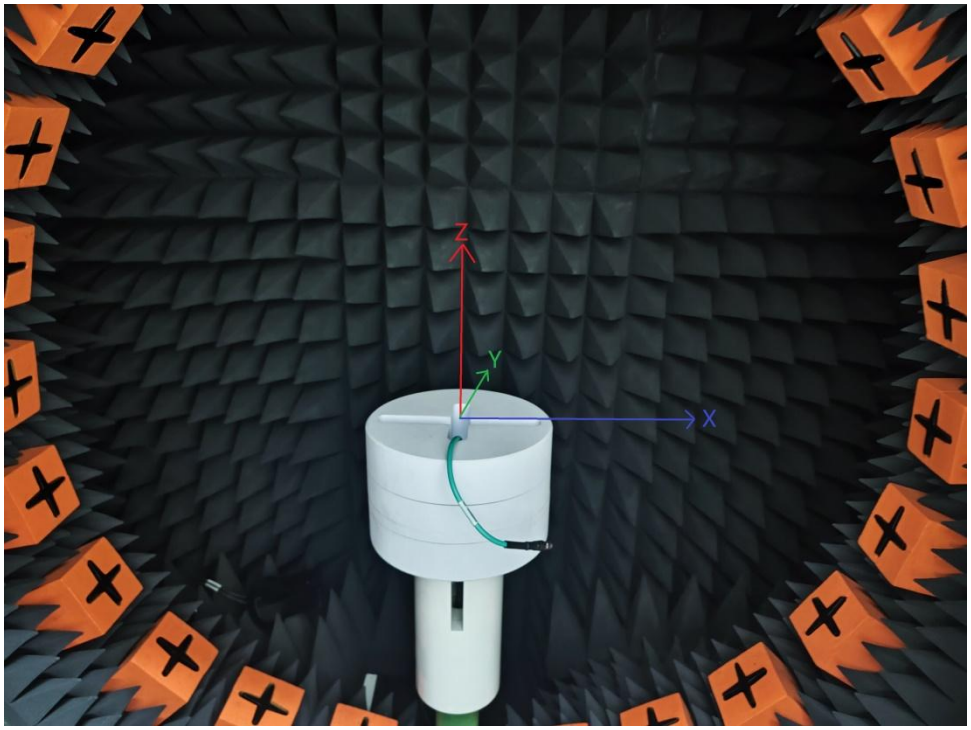


efficiency diagram

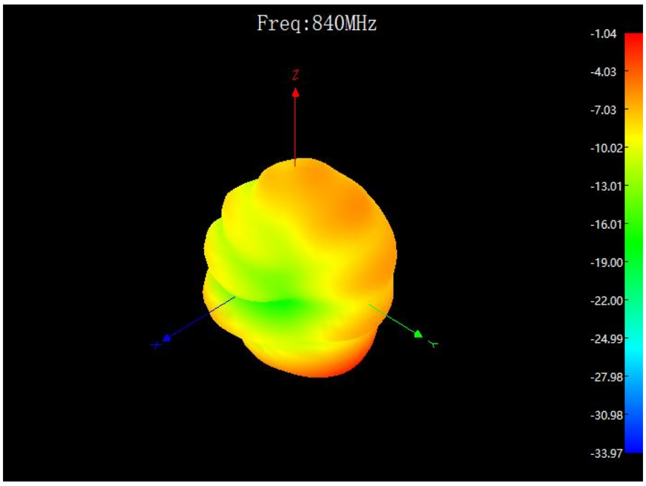


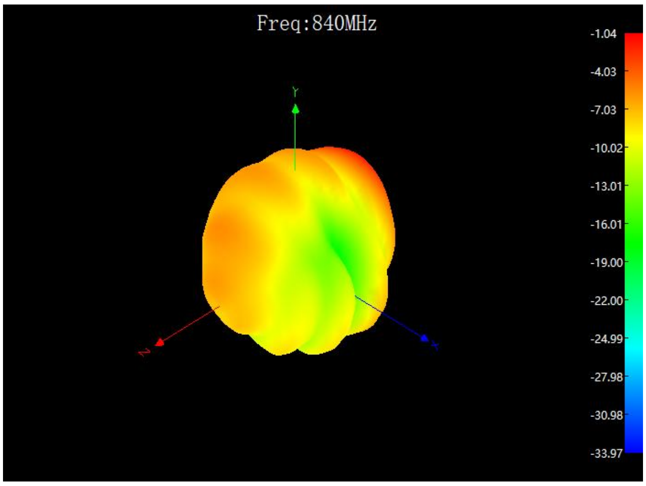
Frequency	Gain
B2	1.84
B4	3.16
B5	-1.04
B12	-2.34
B66	3.16

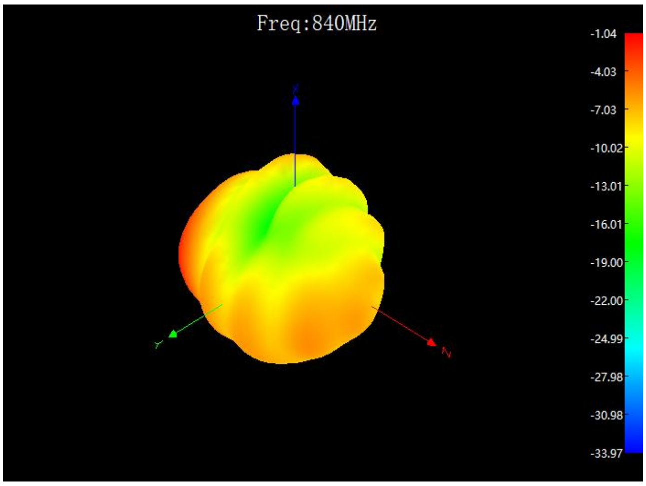
Schematic diagram of the direction of the darkroom



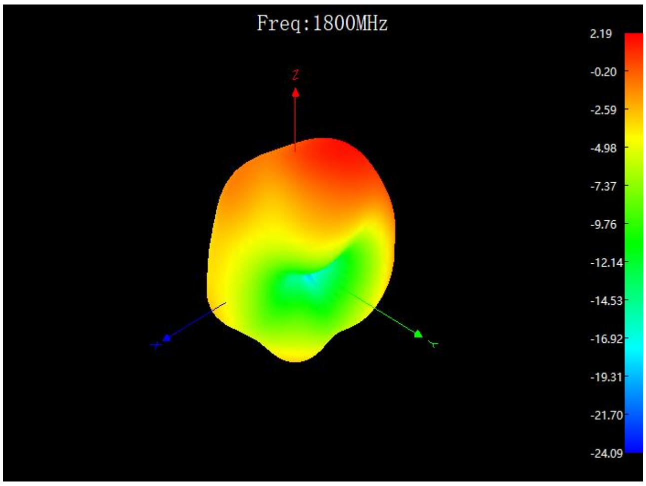
840MHz

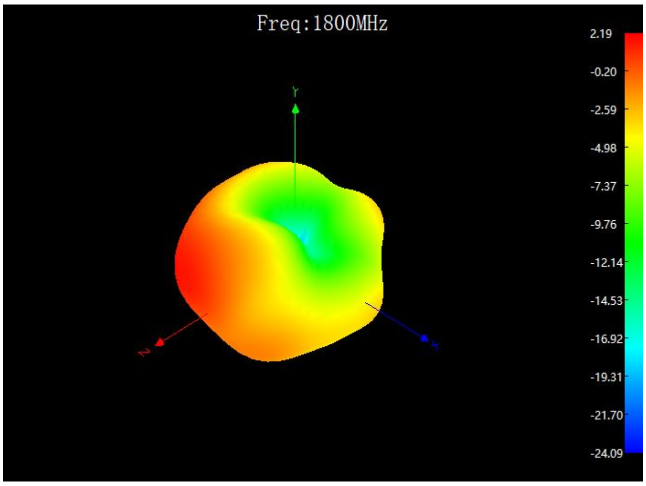

Freq:840MHz
-1.04
-4.03
-7.03
-10.02
-13.01
-16.01
-19.00
-22.00
-24.99
-27.98
-30.98
-33.97
Z
X
Y

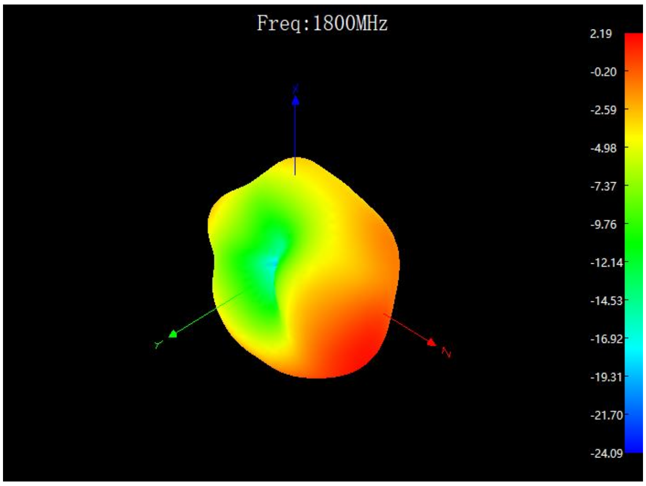

Freq:840MHz
-1.04
-4.03
-7.03
-10.02
-13.01
-16.01
-19.00
-22.00
-24.99
-27.98
-30.98
-33.97
Y
Z
X


Freq:840MHz
-1.04
-4.03
-7.03
-10.02
-13.01
-16.01
-19.00
-22.00
-24.99
-27.98
-30.98
-33.97
X
Y
Z

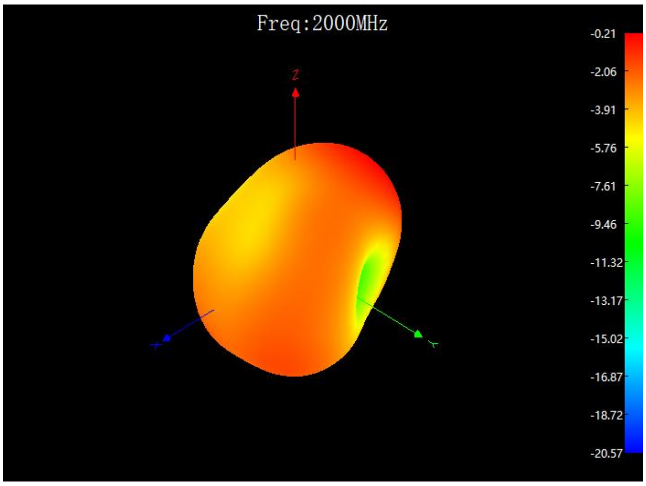
1800MHz

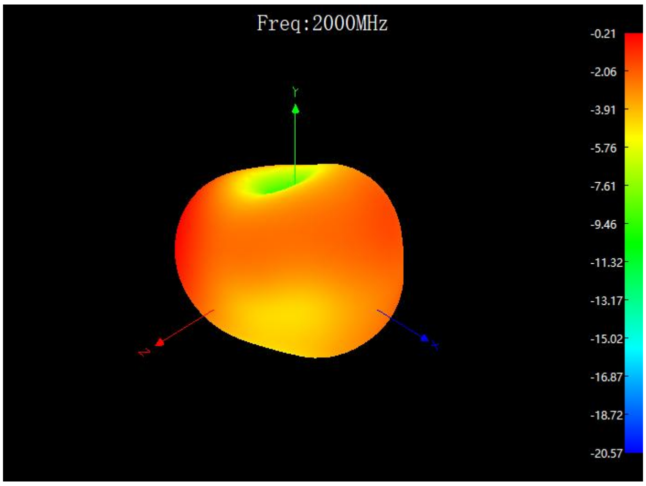

Freq:1800MHz
Z
Y
2.19
-0.20
-2.59
-4.98
-7.37
-9.76
-12.14
-14.53
-16.92
-19.31
-21.70
-24.09

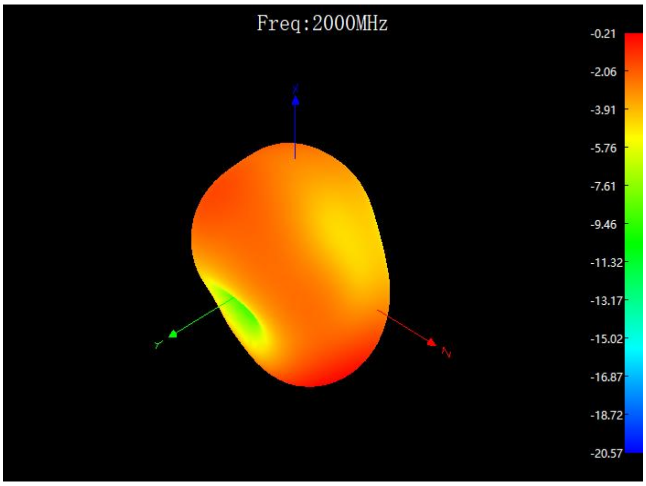

Freq:1800MHz
Y
Z
2.19
-0.20
-2.59
-4.98
-7.37
-9.76
-12.14
-14.53
-16.92
-19.31
-21.70
-24.09


Freq:1800MHz
Y
Z
2.19
-0.20
-2.59
-4.98
-7.37
-9.76
-12.14
-14.53
-16.92
-19.31
-21.70
-24.09

2000MHz


Freq:2000MHz
-0.21
-2.06
-3.91
-5.76
-7.61
-9.46
-11.32
-13.17
-15.02
-16.87
-18.72
-20.57


Freq:2000MHz
-0.21
-2.06
-3.91
-5.76
-7.61
-9.46
-11.32
-13.17
-15.02
-16.87
-18.72
-20.57


Freq:2000MHz
-0.21
-2.06
-3.91
-5.76
-7.61
-9.46
-11.32
-13.17
-15.02
-16.87
-18.72
-20.57