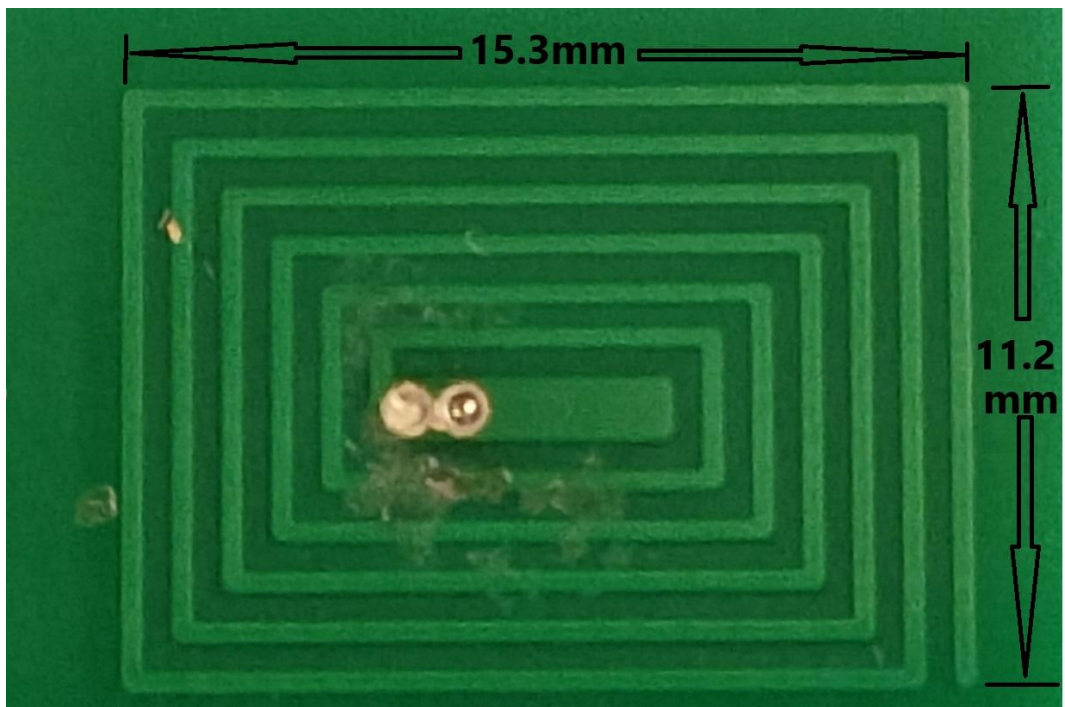


1. Antenna Description

Equipment	Amplifier
Antenna plate	Internal antenna
Market name/Model name	X2BT, X4BT
Manufacture	SPIRIT "LLC"
Antenna Max. Gain	0dBi
Frequency Range	2402-2480MHz
Connect Type	Integer antenna

2. Picture of antenna



3. Test Setup

3.1 Microwave chamber diagram

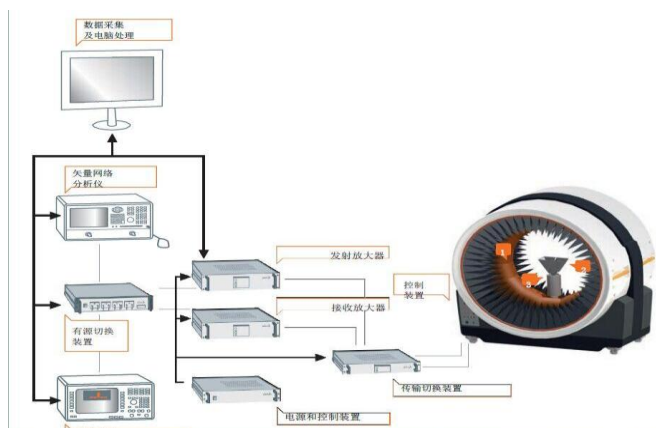


Figure 1 Wiring diagram of assembly test for microwave chamber system

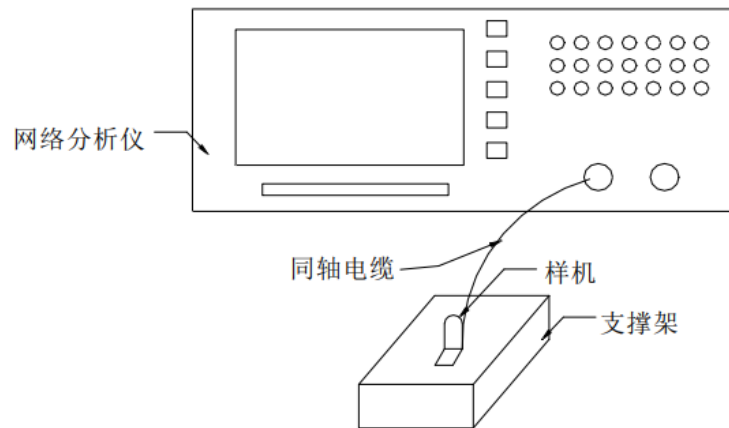


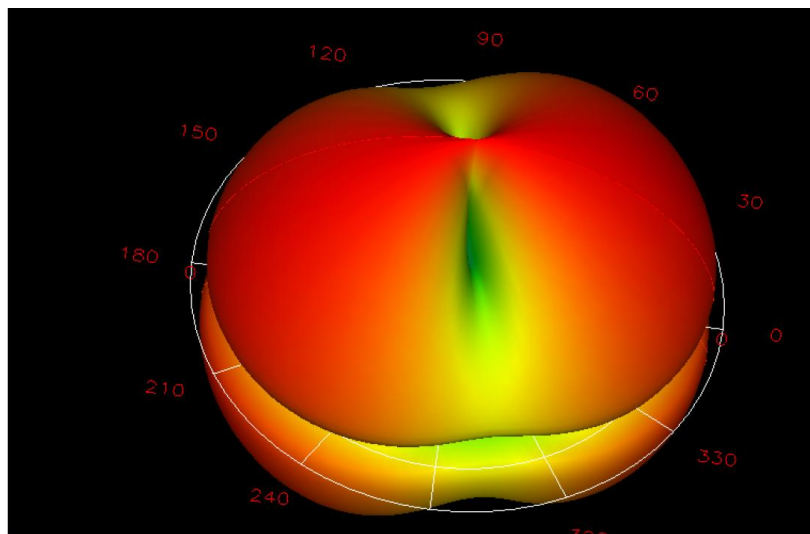
Figure 2 ANT static test connection method

4. Antenna Radiation Pattern

Radiation pattern--2.402GHz

Total Average Gain: -0.12dBi

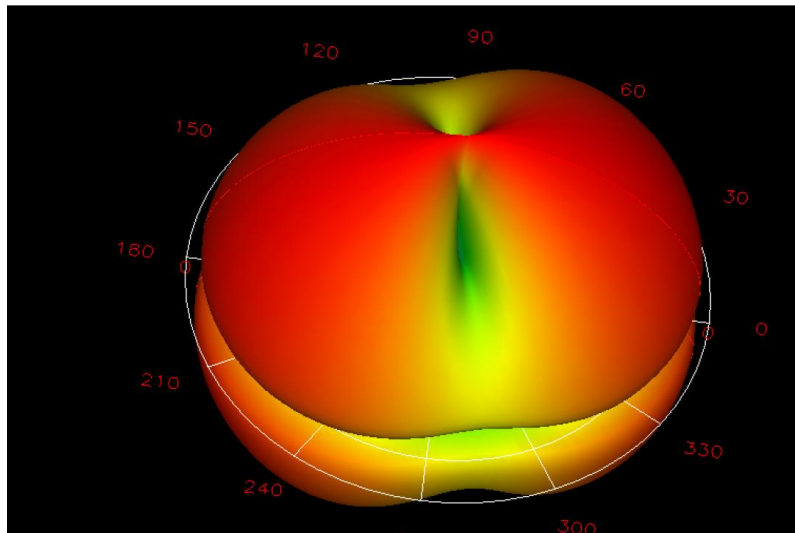
Phi	0	45	90	135	180	235	270	315
Gain	-0.12	-0.30	-0.22	-1.11	-0.37	-0.24	-0.32	-0.21



Radiation pattern--2.441GHz

Total Average Gain: 0.0dBi

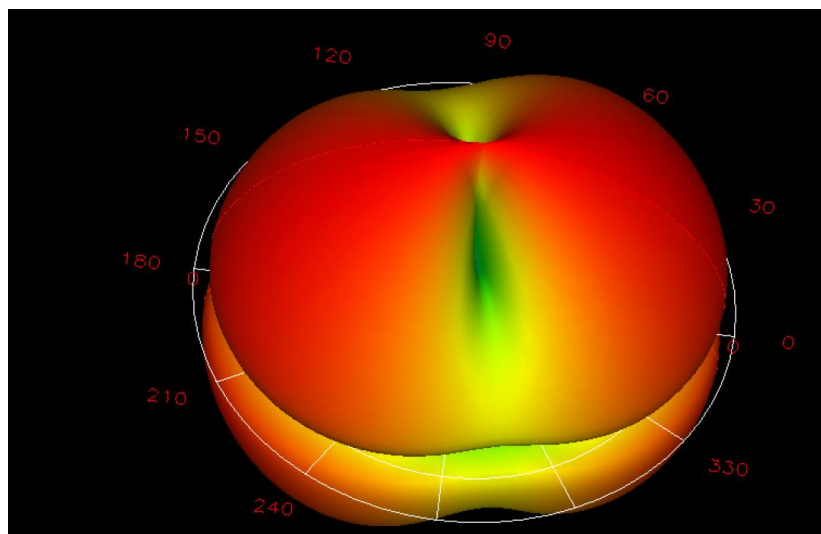
Phi	0	45	90	135	180	235	270	315
Gain	-0.15	-1	-0.36	0	-0.08	-0.27	-0.32	-0.15



Radiation pattern--2.480GHz

Total Average Gain: -0.17dBi

Phi	0	45	90	135	180	235	270	315
Gain	-0.17	-0.25	-1.10	-2.12	-1.09	-0.81	-0.30	-0.18



photo

