



深圳市鑫尔盛科技有限公司

Shenzhen xinersheng Technology Co., Ltd

Passive Antenna Test Report

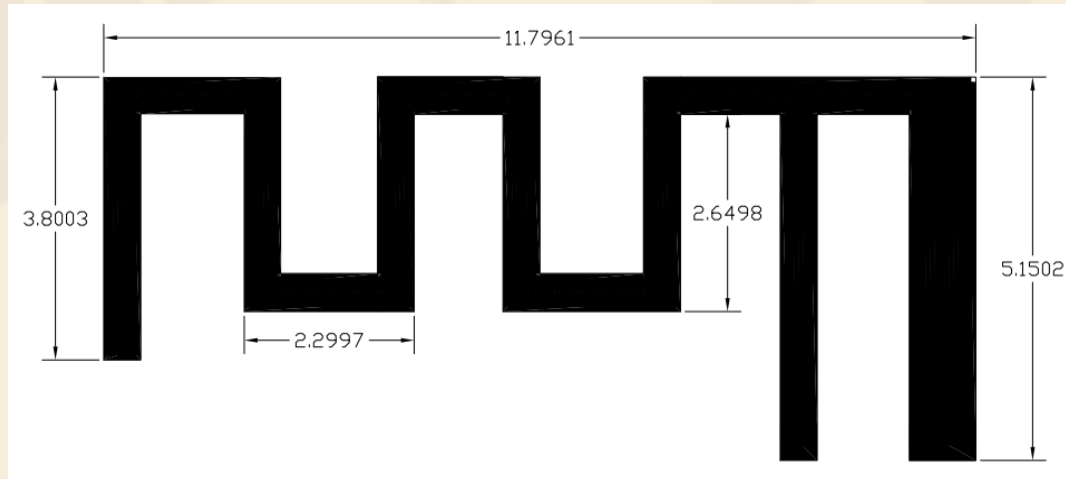
Engineering: Fang Zhili
Date: 2024-05-27



1. Multi-probe RF antenna test system



2. Antenna size



Unit: mm

3. Antenna passive test data:

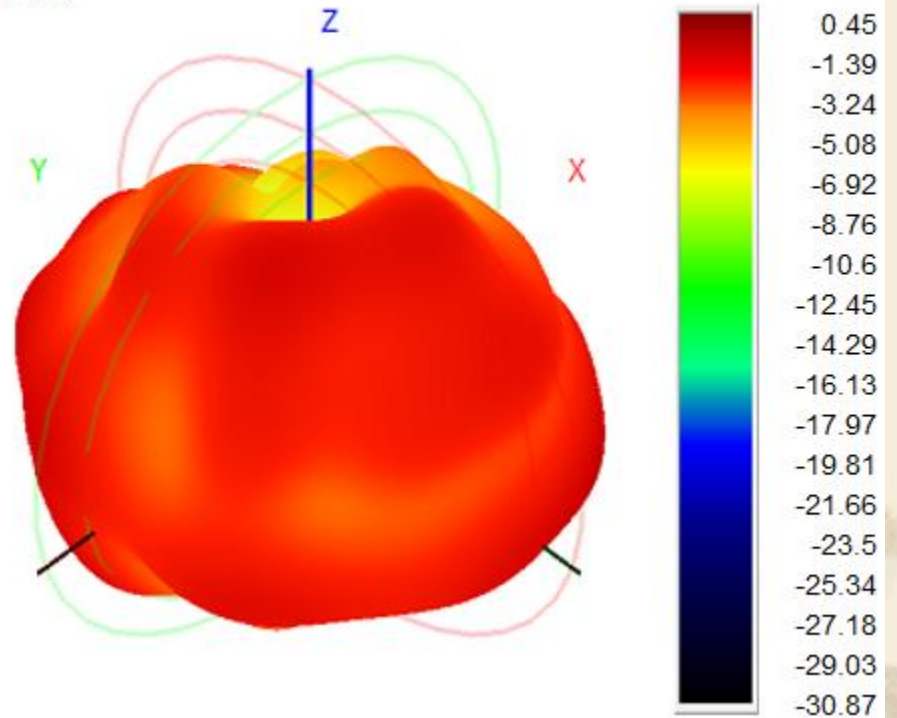
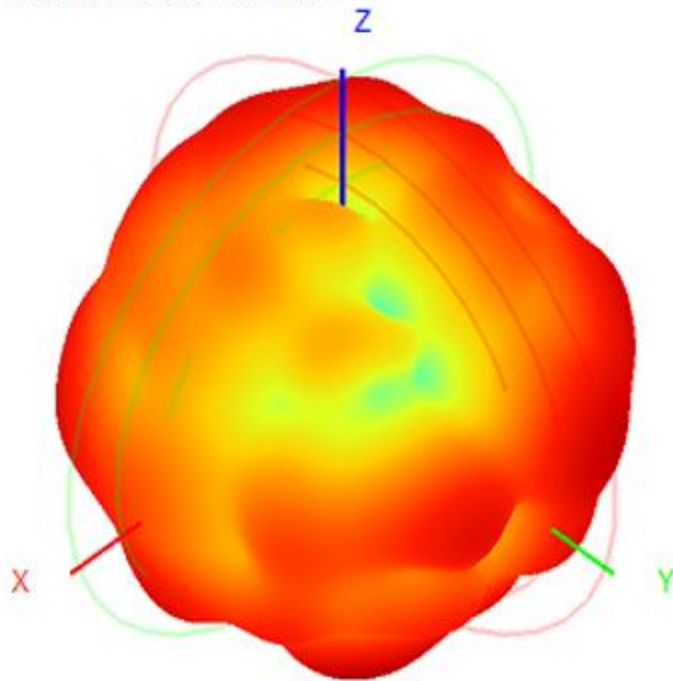
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-5.19	-4.96	-4.70	-4.61	-4.77	-4.56	-4.54	-4.44	-4.32	-4.32	-4.30
Gain (dBi)	0.45	0.42	0.26	-0.25	-0.26	-0.03	-0.07	-0.09	-0.43	-0.30	-0.09
Efficiency (%)	30.27	31.88	33.88	34.60	33.33	35.03	35.18	35.94	36.95	36.97	37.16
Directivity (dB)	5.64	5.39	4.96	4.36	4.51	4.52	4.47	4.35	3.89	4.02	4.21
Peak Gain Position (Theta)	144.00	145.00	145.00	141.00	89.00	88.00	88.00	88.00	75.00	74.00	140.00
Peak Gain Position (Phi)	49.00	49.00	49.00	128.00	329.00	330.00	330.00	330.00	152.00	148.00	125.00
Efficiency ThetaPol (%)	15.74	16.88	17.59	17.37	16.49	17.43	17.49	17.51	17.70	18.04	19.04
Efficiency PhiPol (%)	14.53	15.00	16.29	17.23	16.84	17.60	17.69	18.44	19.25	18.93	18.13
Upper Hem. Efficiency (%)	12.64	14.14	16.03	17.17	16.97	18.02	18.00	17.92	17.78	17.05	16.33
Lower Hem. Efficiency (%)	17.63	17.74	17.85	17.44	16.36	17.01	17.18	18.02	19.18	19.92	20.83

4. Antenna 3D

2400M

2400.0MHz Total, Eff: 30.3%

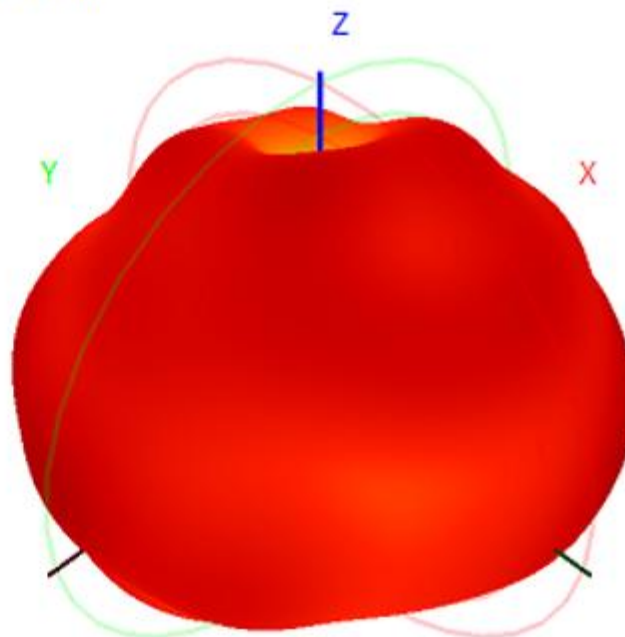
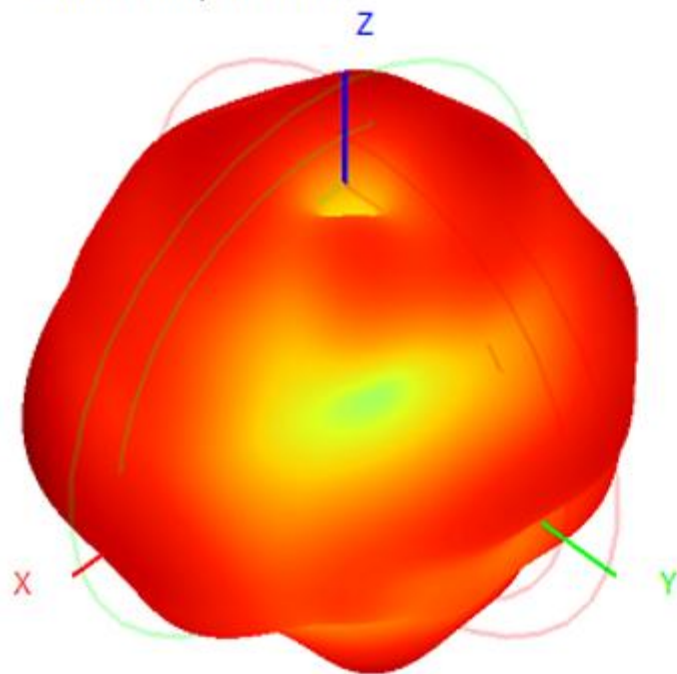
Back View



2450M

2450.0MHz Total, Eff: 35.0%

Back View



2500M

2500.0MHz Total, Eff: 37.2%

Back View

