

产品规格书

PRODUCT SPECIFICATION

Customer: Shenzhen Ruichi Technology Co., Ltd

Room 1518-1519, Unit 1, Building 3, Phase II, Xinghe Costco Global Business Center,
Longtang Community, Minzhi Subdistrict, Longhua District, Shenzhen, China

Customer's part number: RDMCTMZT-RF01

Product description: PCB ANT

Issue Date: 2024-12-30

1、产品技术指标 (SPECIFICATIONS)

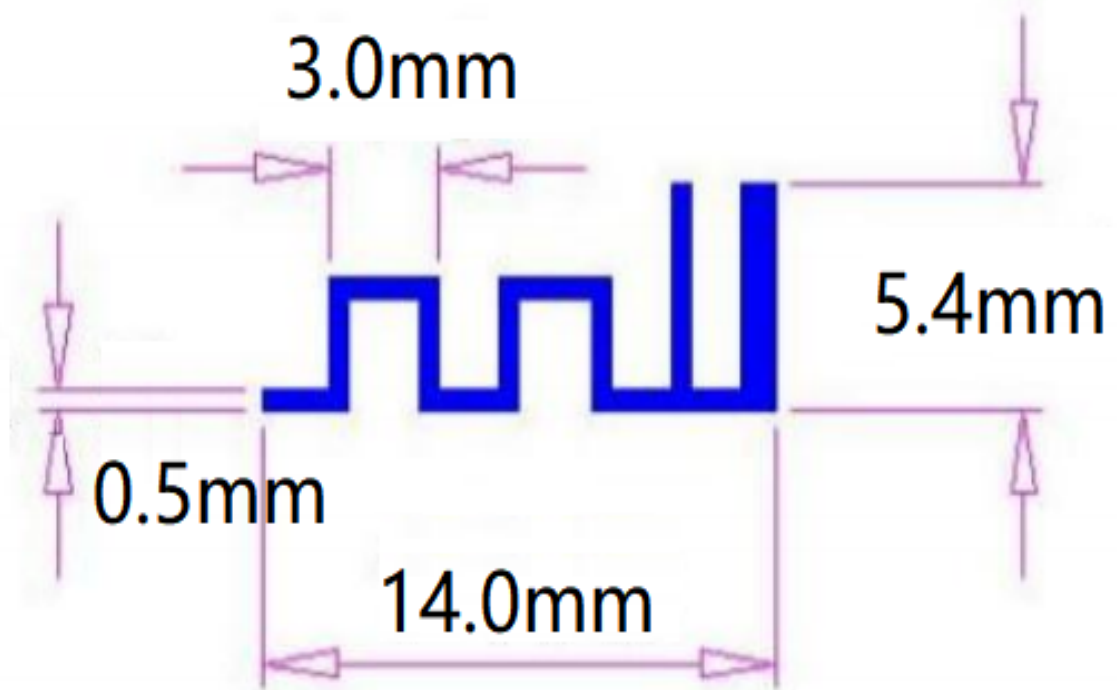
2、产品图片 (PICTURE)

3、驻波图 (VSWR)

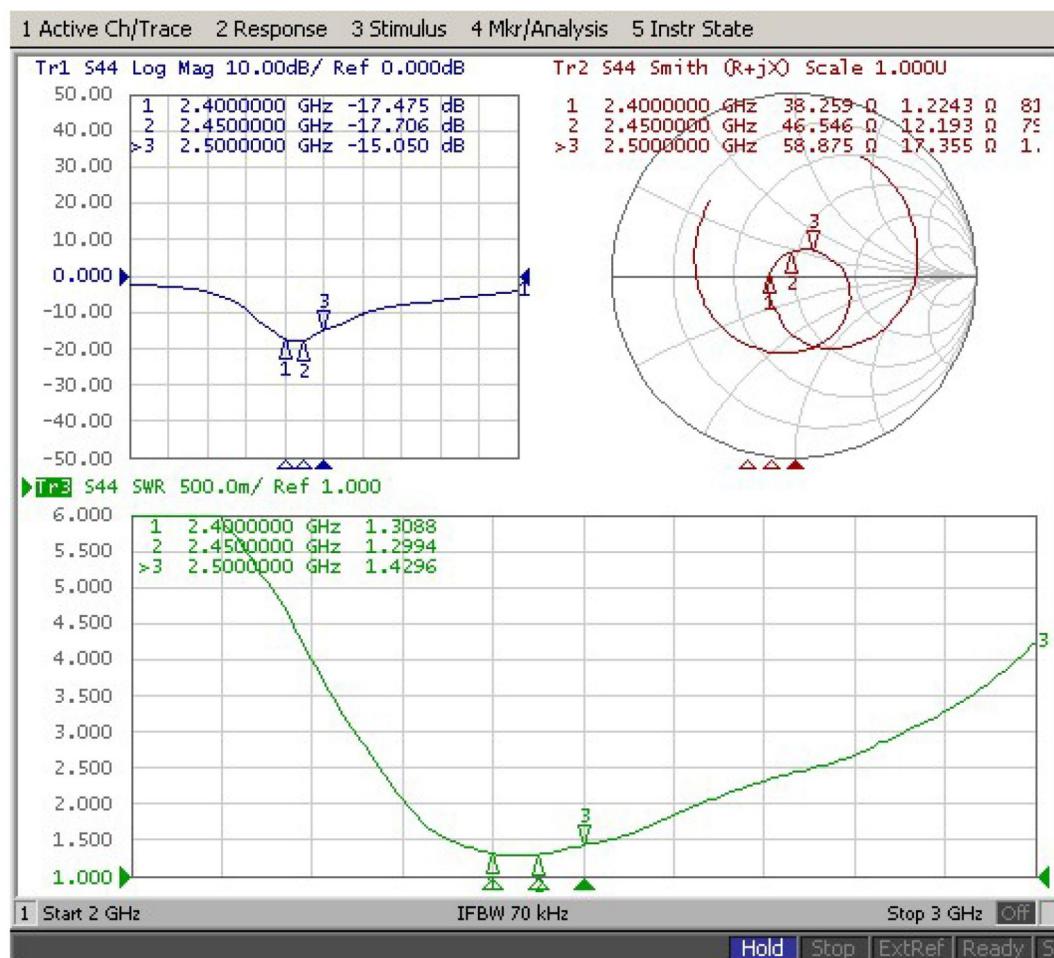
1、产品技术指标（SPECIFICATIONS）

Electrical technical parameters			
Electrical performance indicators		Electrical Specifications	
frequency range	2400-2500MHz	Frequency Range	2400-2500MHz
VSWR	<1.92	VSWR	<1.92
input impedance	50 Ω	Input Impedance	50 Ω
direction	omnidirectional	Direction	All
gain	3.31 dBi	Gain	3.31 dBi
Mechanical indicators		Mechanical Specifications	
interface form	OPEN	Input connector	OPEN
Operating Temperature	-20℃~+70℃	Working Temperature	-20℃~+70℃
Operating Humidity	20%~80%	Working Humidity	20%~80%

2、产品图片（PICTURE）

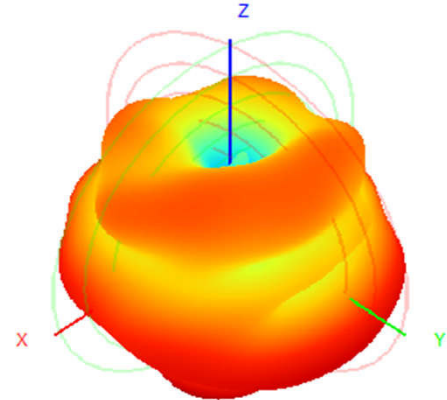


3、驻波图（VSWR）

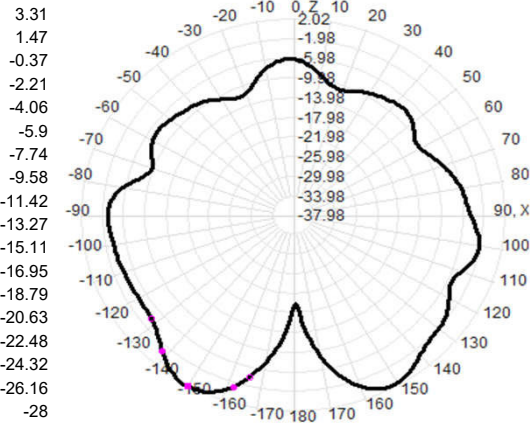
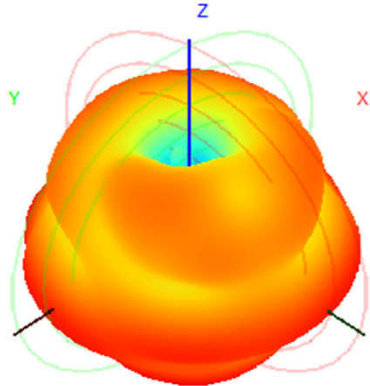


Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-3.36	-3.57	-3.74	-4.03	-4.17	-4.11	-4.24	-4.33	-4.24	-4.15	-3.93
Gain (dBi)	3.31	3.15	3.12	2.98	3.00	3.20	3.14	3.04	3.07	3.08	3.21
Efficiency (%)	46.11	43.91	42.30	39.55	38.26	38.78	37.65	36.90	37.67	38.49	40.48
Directivity (dB)	6.68	6.72	6.86	7.00	7.17	7.32	7.39	7.37	7.31	7.22	7.14
Peak Gain Position (Theta)	144.00	144.00	144.00	144.00	144.00	144.00	145.00	145.00	146.00	146.00	146.00
Peak Gain Position (Phi)	24.00	26.00	27.00	28.00	30.00	30.00	29.00	29.00	28.00	28.00	28.00
Efficiency ThetaPol (%)	41.95	39.80	38.17	35.54	34.32	34.80	33.83	33.16	33.88	34.65	36.47
Efficiency PhiPol (%)	4.16	4.11	4.13	4.01	3.94	3.98	3.82	3.74	3.78	3.84	4.01
Upper Hem. Efficiency (%)	11.21	10.30	9.41	8.51	7.96	7.88	7.67	7.66	8.02	8.39	8.91
Lower Hem. Efficiency (%)	34.90	33.61	32.90	31.05	30.30	30.90	29.98	29.24	29.65	30.09	31.57

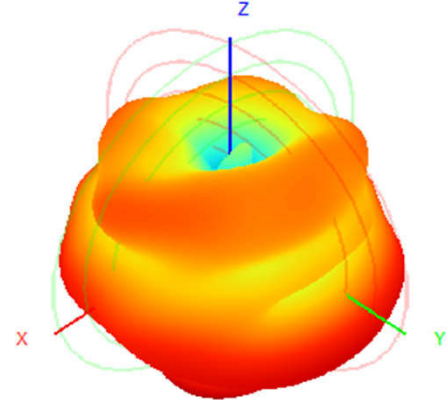
2400.0MHz H+V, Eff: 46.1%



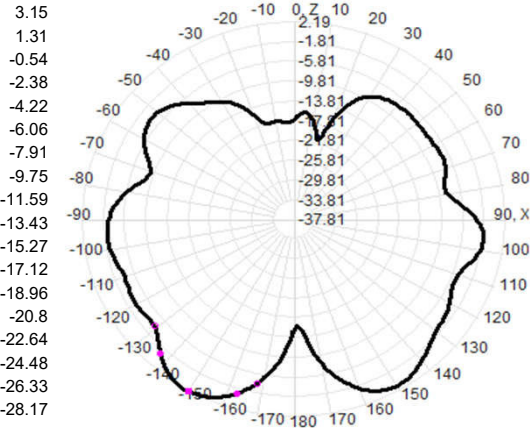
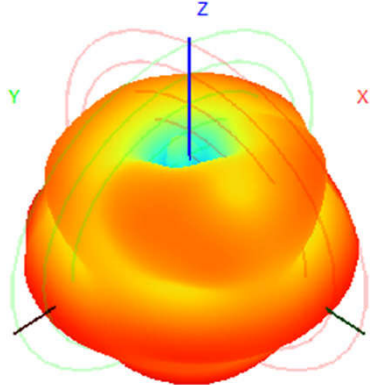
Back View



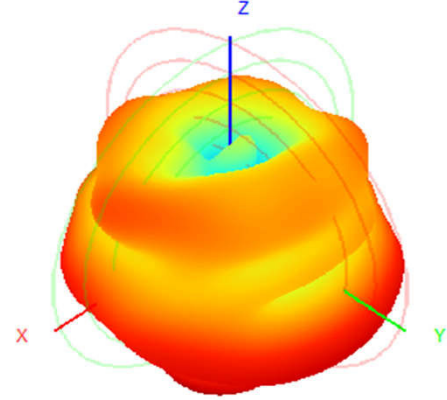
2410.0MHz H+V, Eff: 43.9%



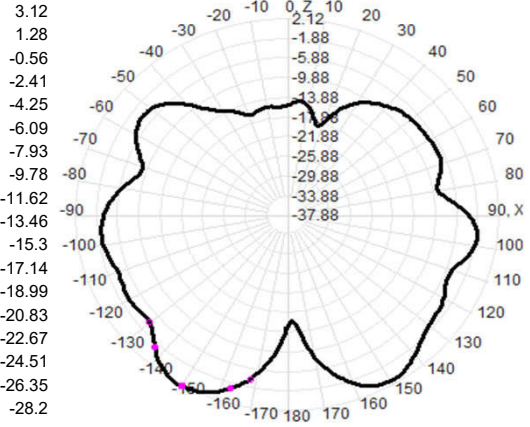
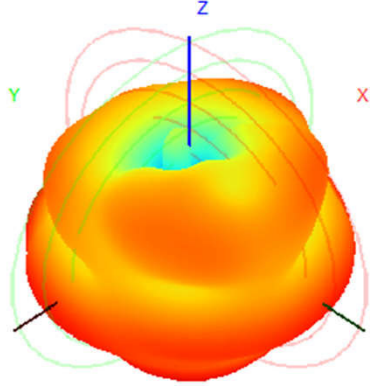
Back View



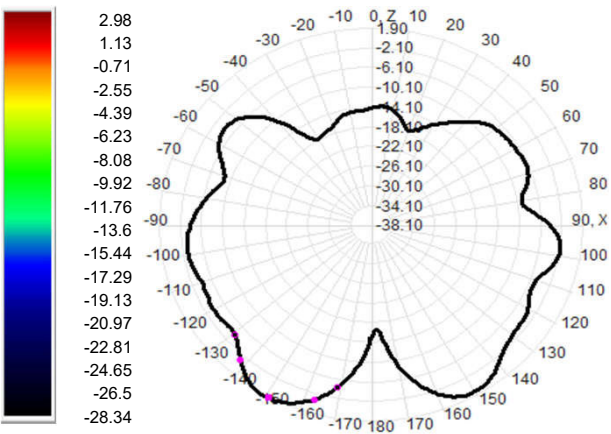
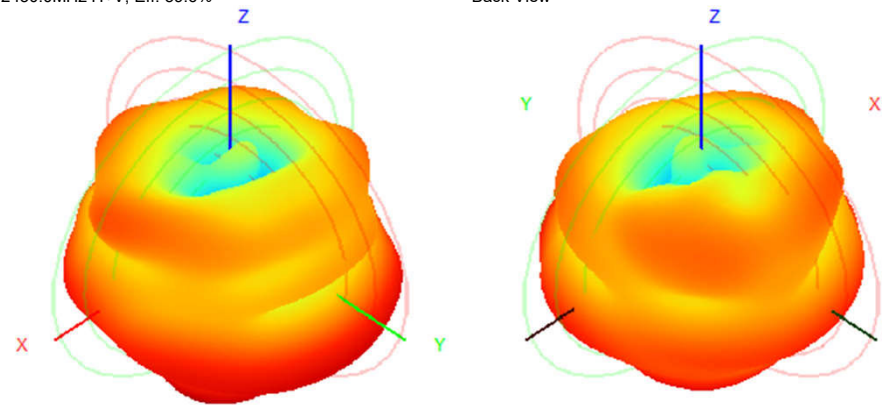
2420.0MHz H+V, Eff: 42.3%



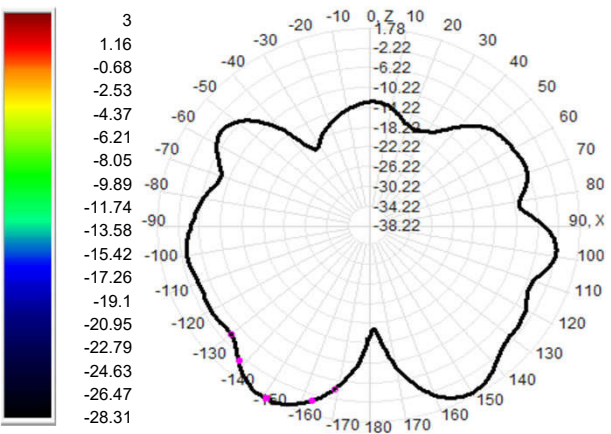
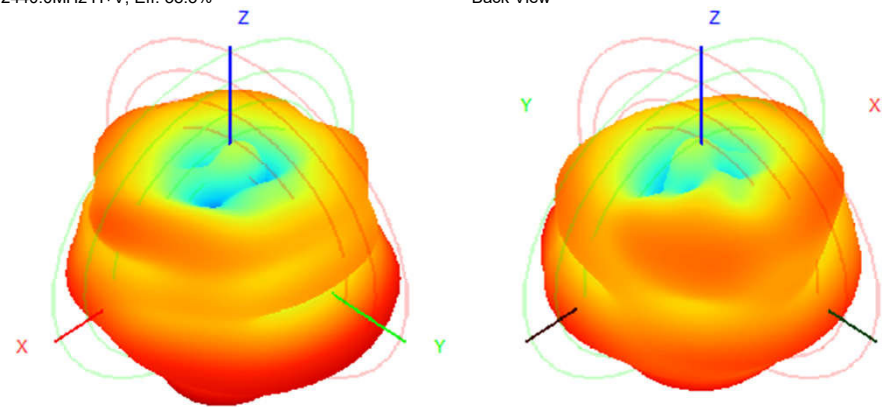
Back View



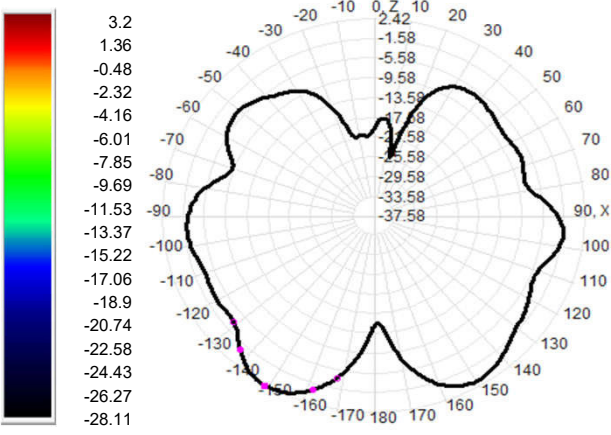
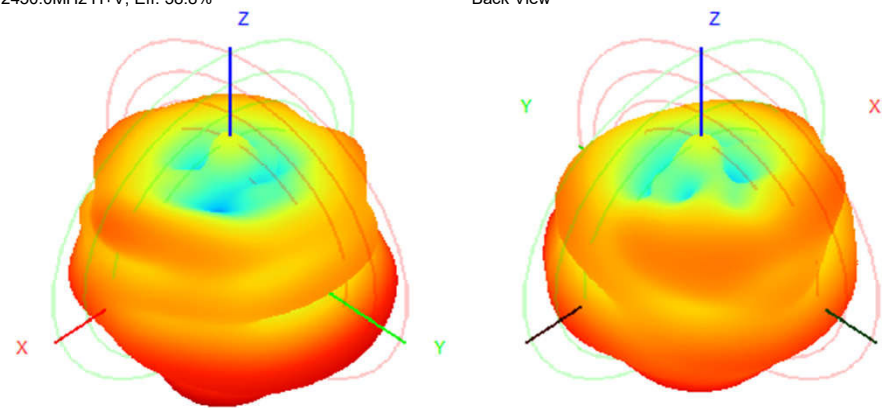
2430.0MHz H+V, Eff: 39.6%



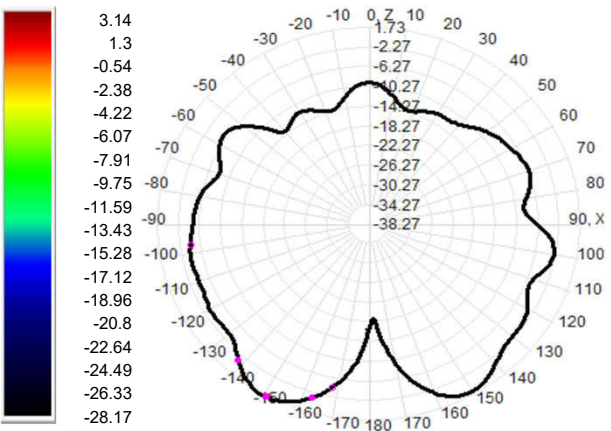
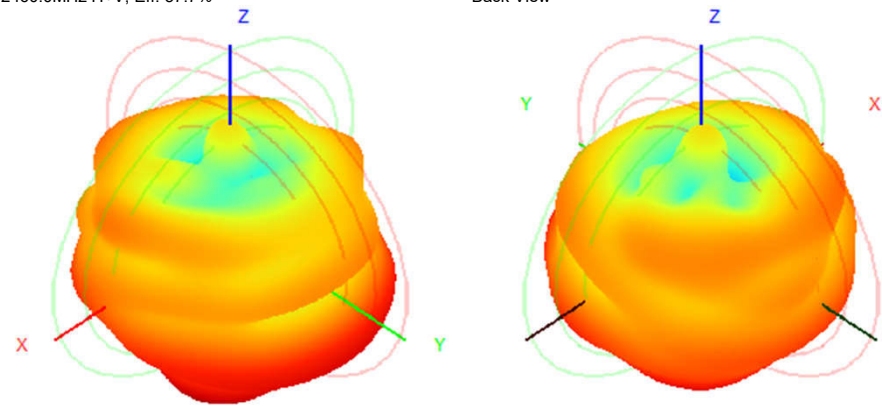
2440.0MHz H+V, Eff: 38.3%



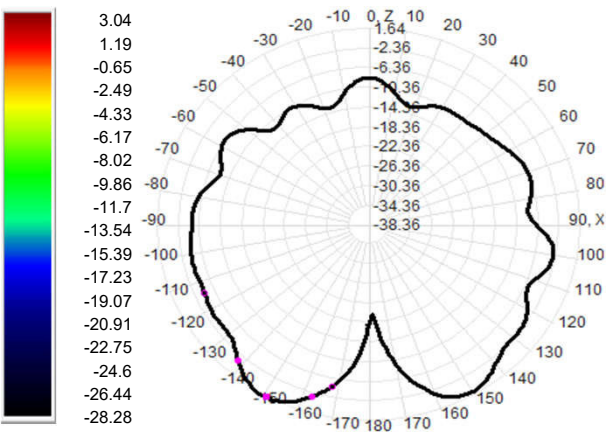
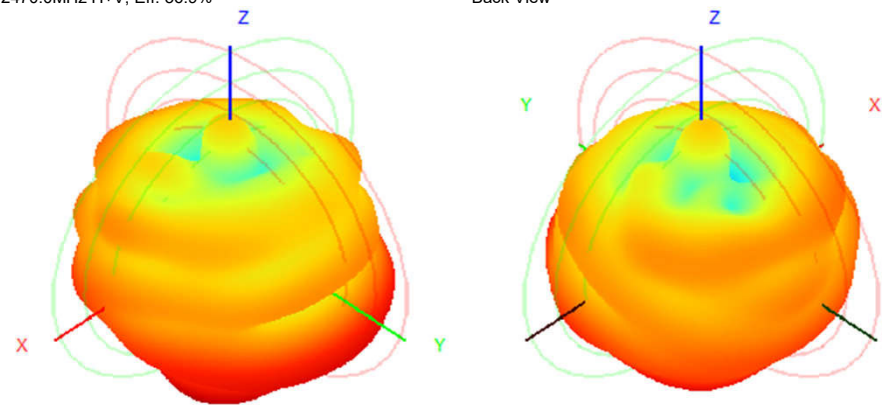
2450.0MHz H+V, Eff: 38.8%



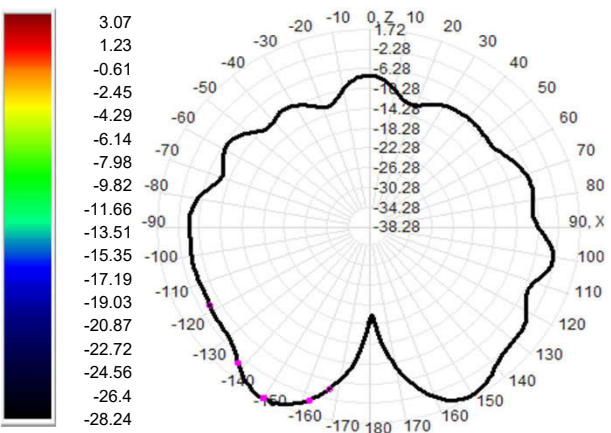
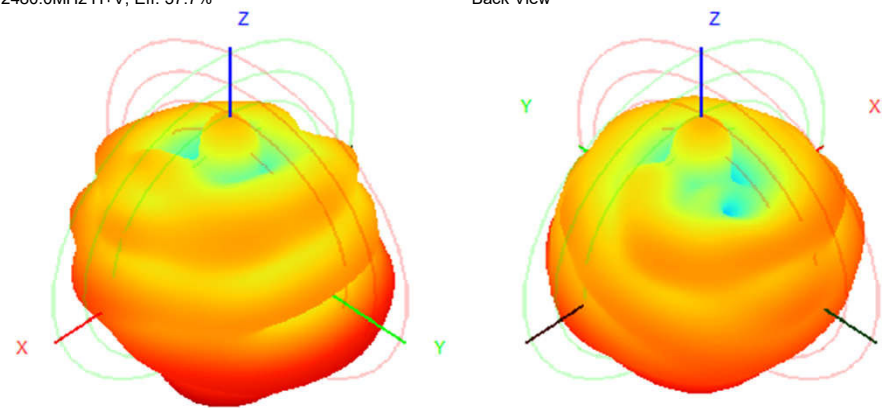
2460.0MHz H+V, Eff: 37.7%



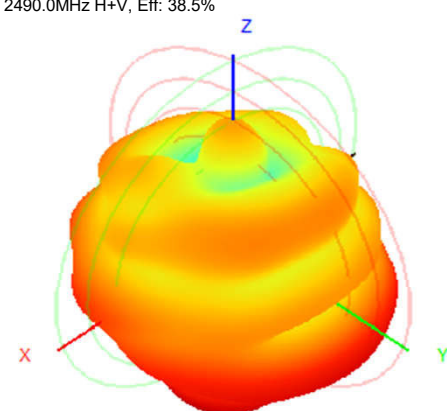
2470.0MHz H+V, Eff: 36.9%



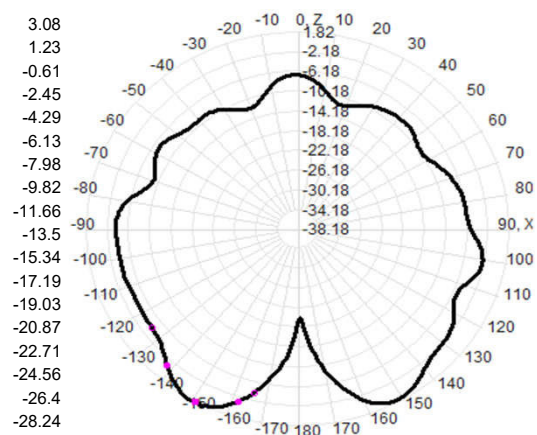
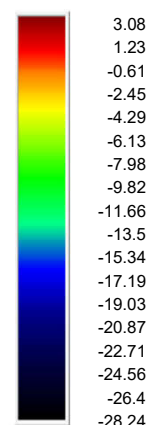
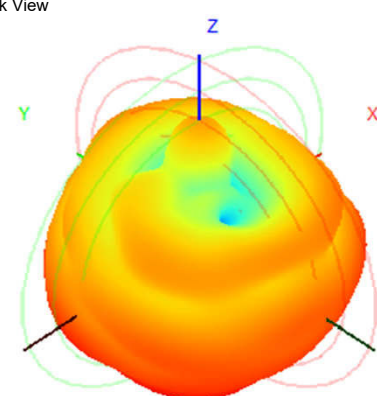
2480.0MHz H+V, Eff: 37.7%



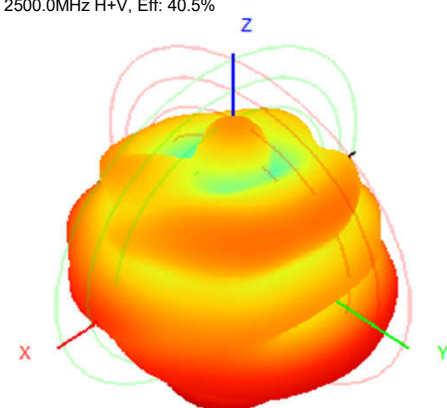
2490.0MHz H+V, Eff: 38.5%



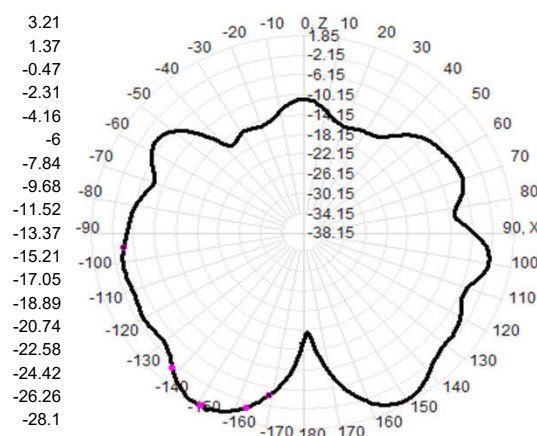
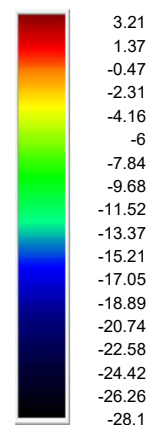
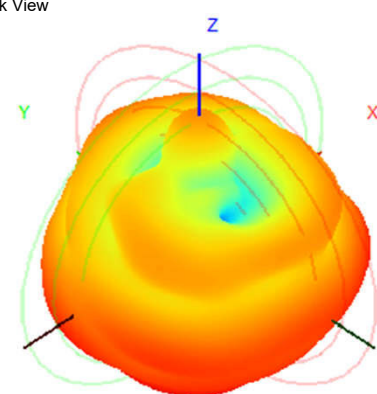
Back View



2500.0MHz H+V, Eff: 40.5%



Back View



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