

Antena Test Report

Customer name: Greatwall

Project name: A2369/A2470/A2770

Part description: WIFI antenna, dual band 2.4/5.8G built-in

(shrapnel: 40×20.1×0.4) - gray - 1.37 line - 4 generation terminal

Supplier: Suzhou Cowin Antenna Electronics Co., Ltd.

ADD:No. 156, Gangpu Middle Road, Zhangpu Town, Kunshan City,

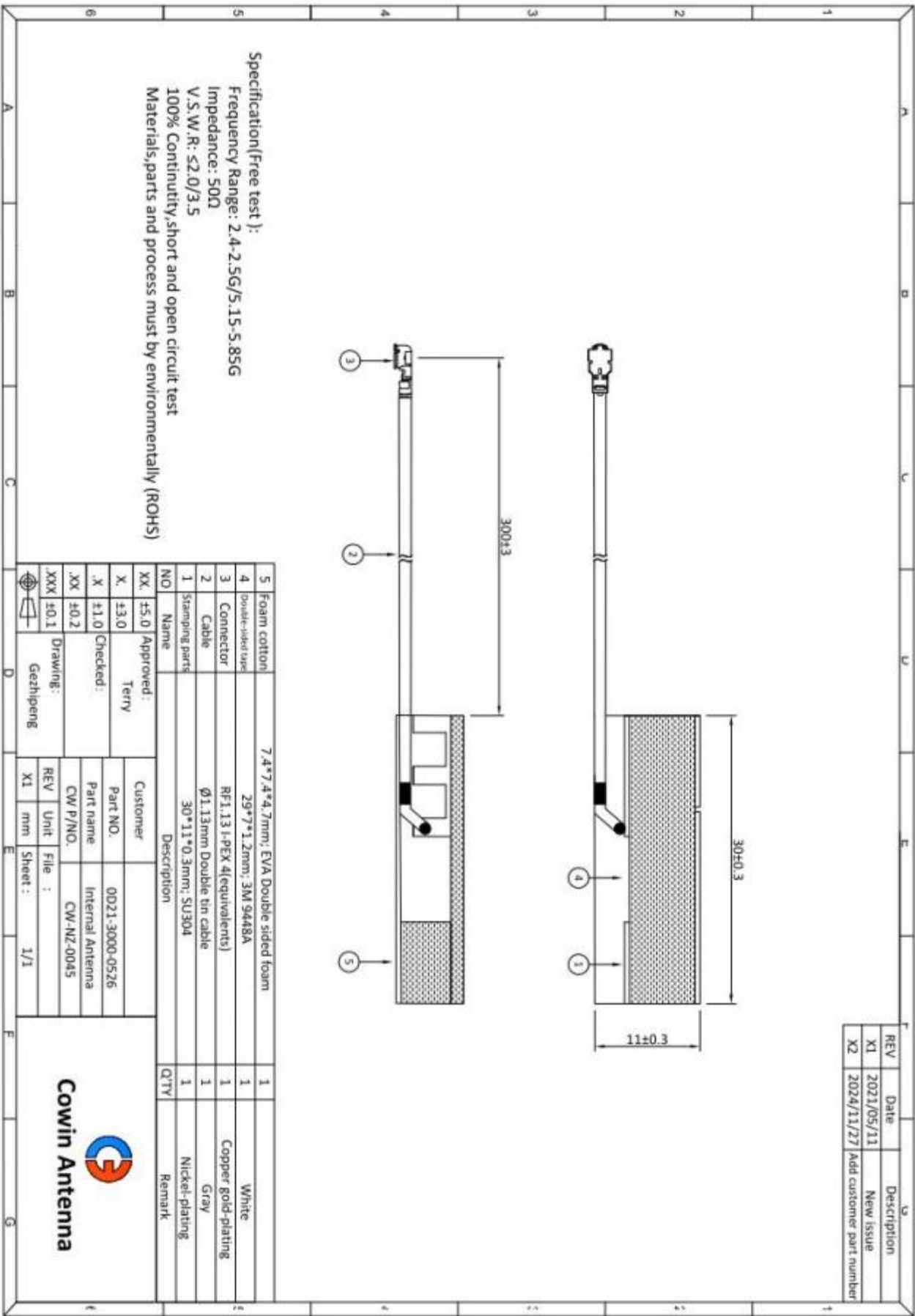
Jiangsu Province

TEL:0512-57382973

FAX:0512-57382973

EMAIL:peter@cowin-antenna.com

1. Product drawing

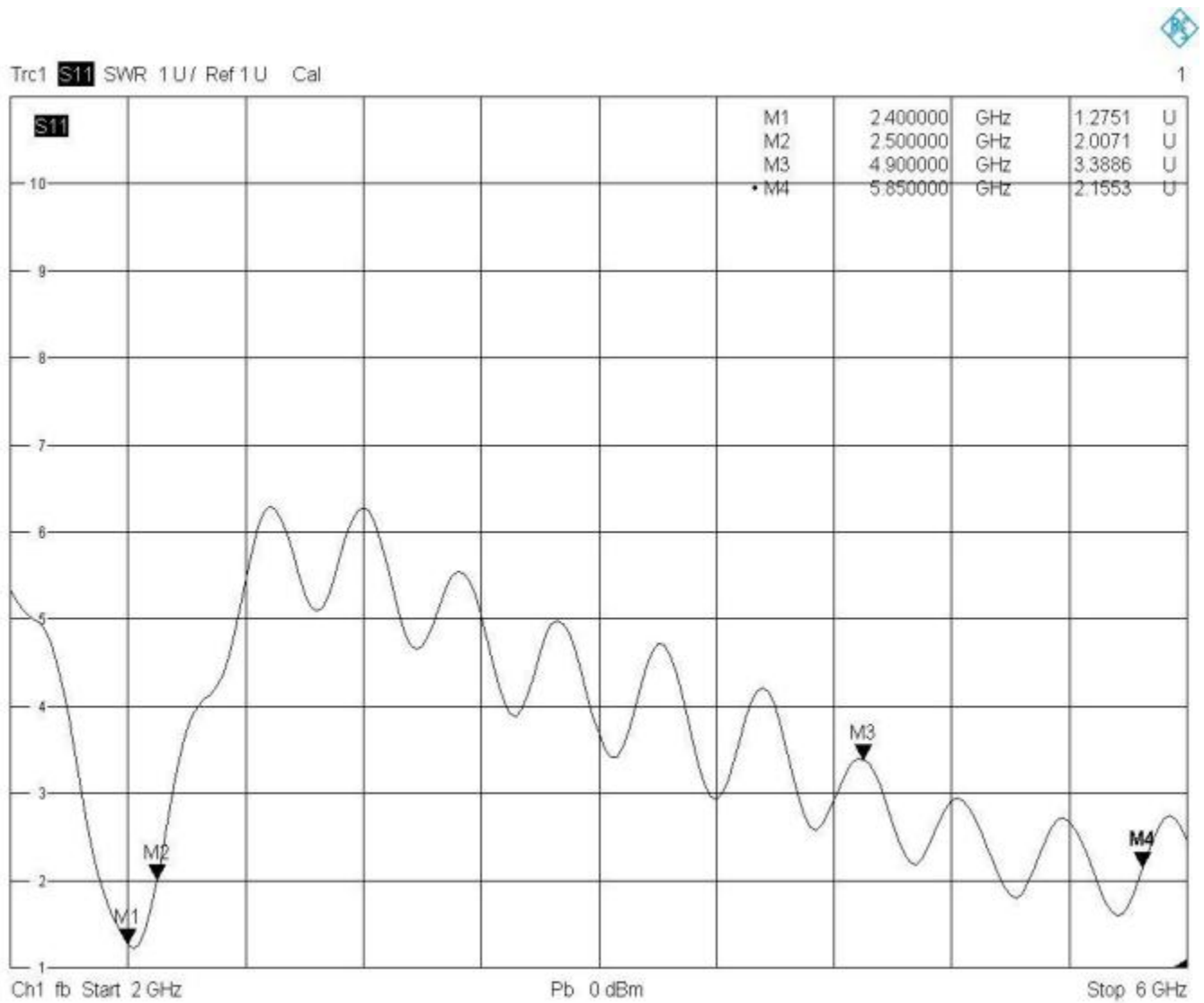


2. Performance parameter table)

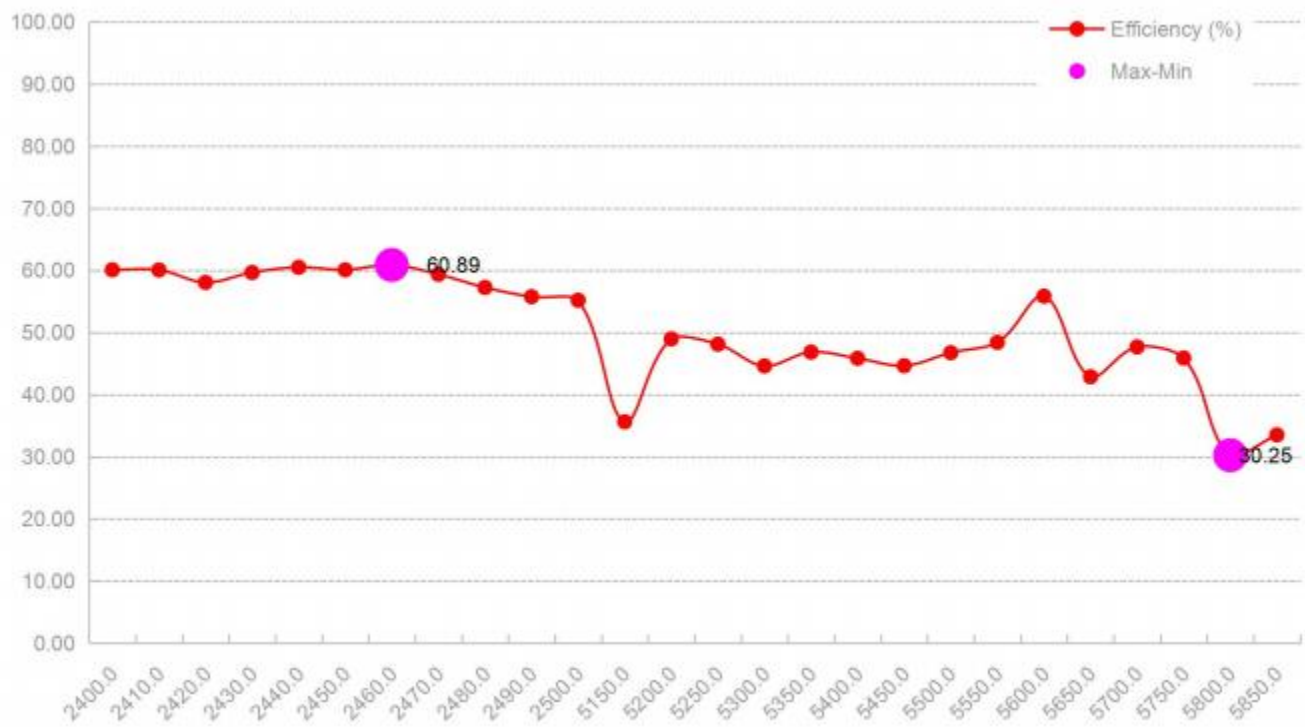
Sample photo	
	
A.Electrical Characteristics	
Frequency	2.4-2.5G/5.15-5.85G
V.S.W.R	$\leq 2.0/3.5$
Peak Gain	3.00/5.22 dBi
Impedance	50 Ohm
Radiation	全向（Omni-directional）
Polarization	线极化（Linear）
Admitted Power	$<10W$
B.Material & Mechanical Characteristics	
Internal structure	SU304
External structure	N/A
Cable Type	RF 1.13 Gray
Connector Type	IPEX MHF4
C.Environmental Characteristics	
Operation Temperature	- 40 ℃ + 80 °C
Storage Temperature	- 40 ℃ + 80 °C
Antenna Storage life	10 year

3. Electrical performance test

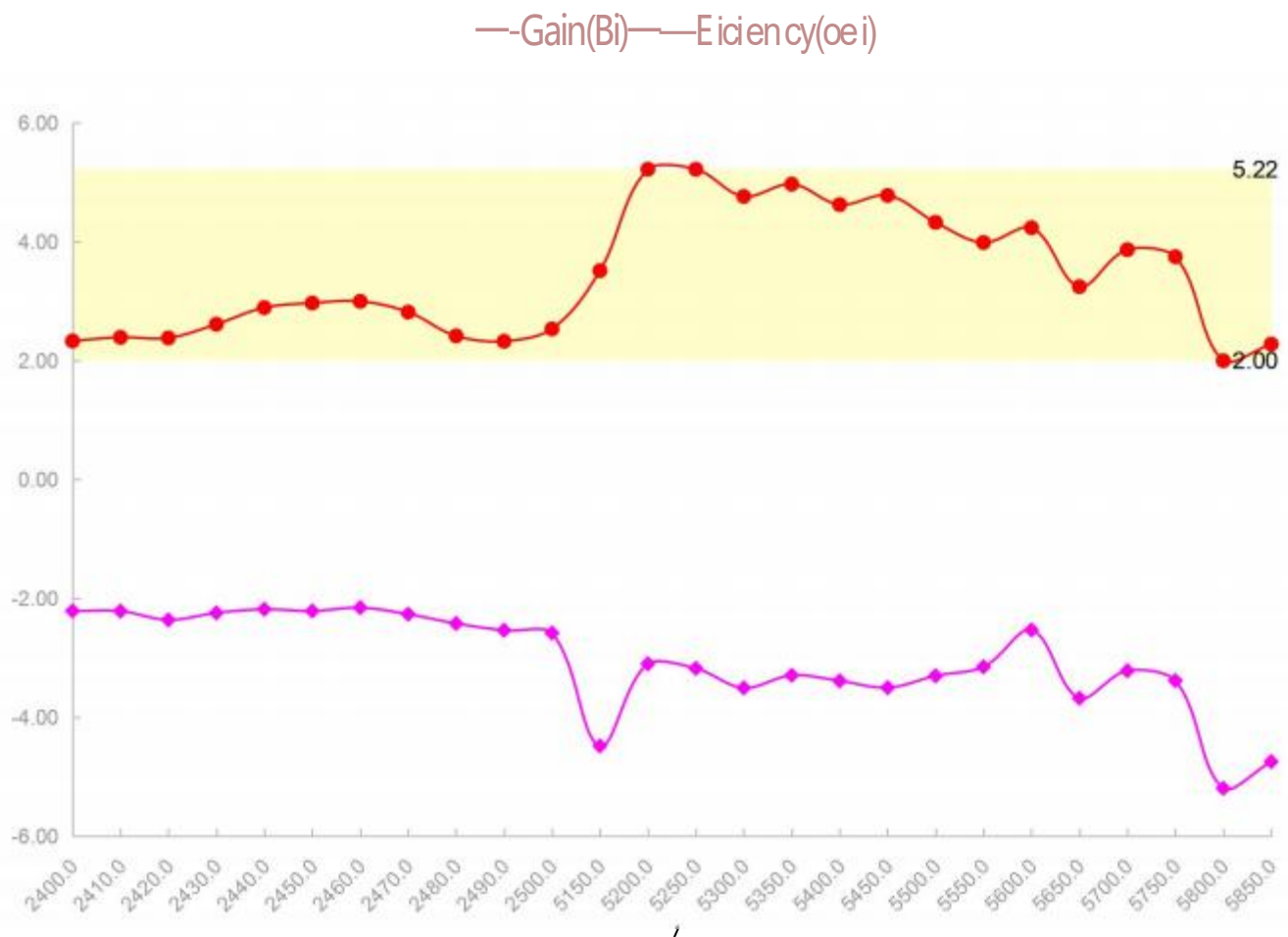
3.1 VSWR



3.2 Efficiency



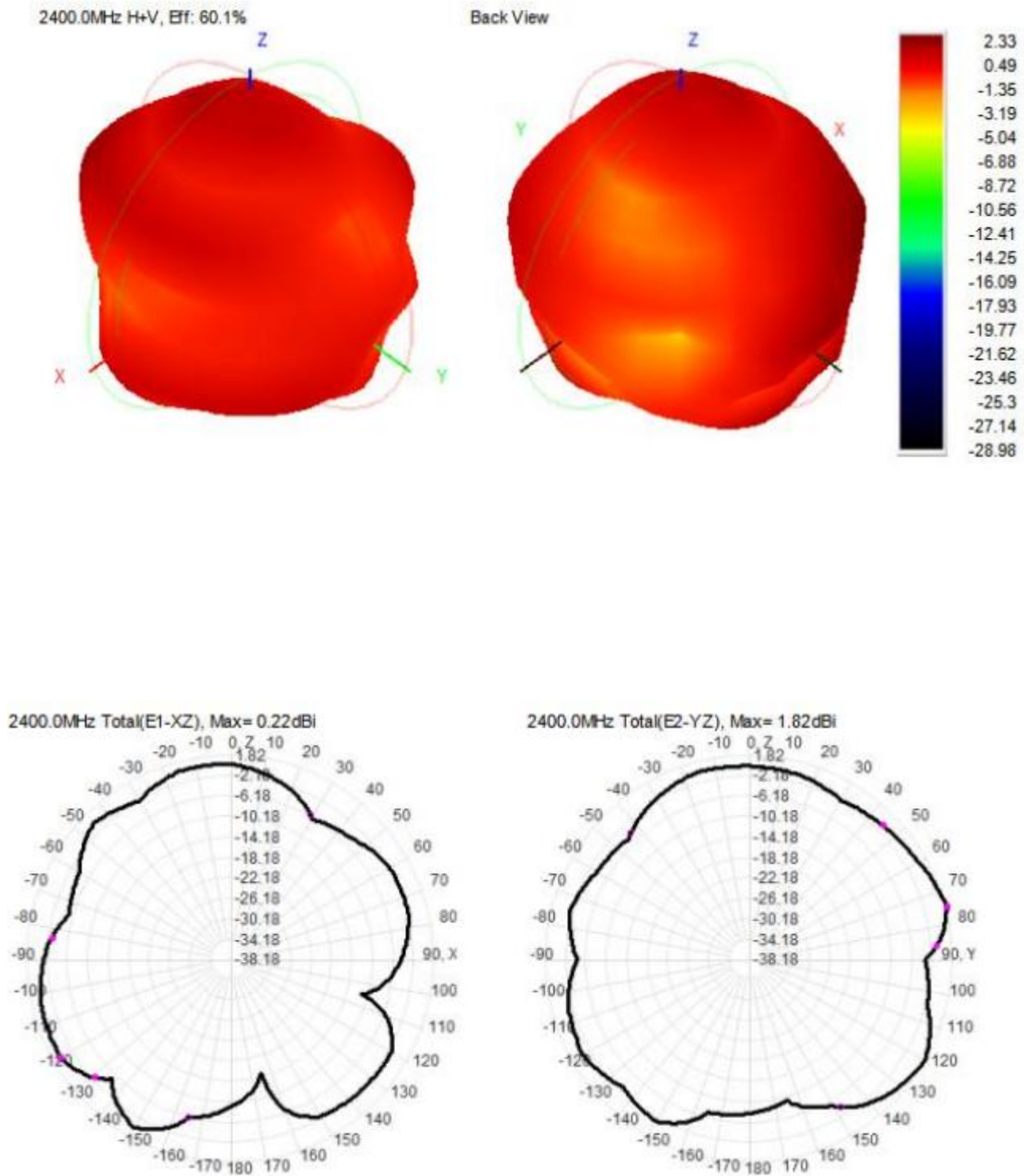
3.3 Peak gain



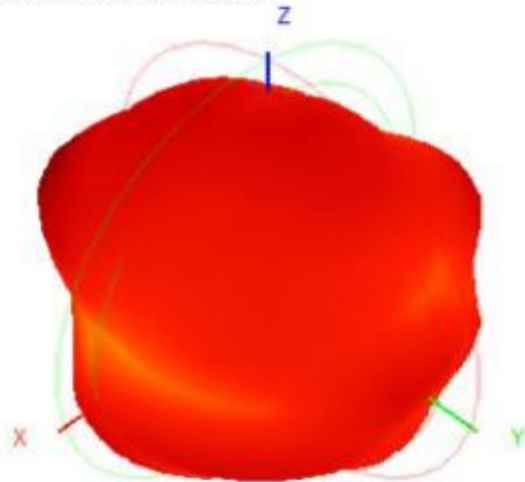
3.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.33	60.12
2410.0	2.39	60.09
2420.0	2.38	58.08
2430.0	2.61	59.68
2440.0	2.89	60.52
2450.0	2.97	60.11
2460.0	3.00	60.89
2470.0	2.82	59.38
2480.0	2.62	57.27
2490.0	2.33	55.79
2500.0	2.53	55.21
5150.0	3.51	36.65
5200.0	5.12	48.99
5250.0	5.22	48.13
5300.0	4.76	44.64
5350.0	4.97	46.86
5400.0	4.62	45.87
5450.0	4.78	44.67
5500.0	4.33	46.77
5550.0	3.99	48.42
5600.0	4.24	55.87
5650.0	3.24	42.90
5700.0	3.87	47.70
5750.0	3.75	45.91
5800.0	2.20	30.25
5850.0	2.00	33.64

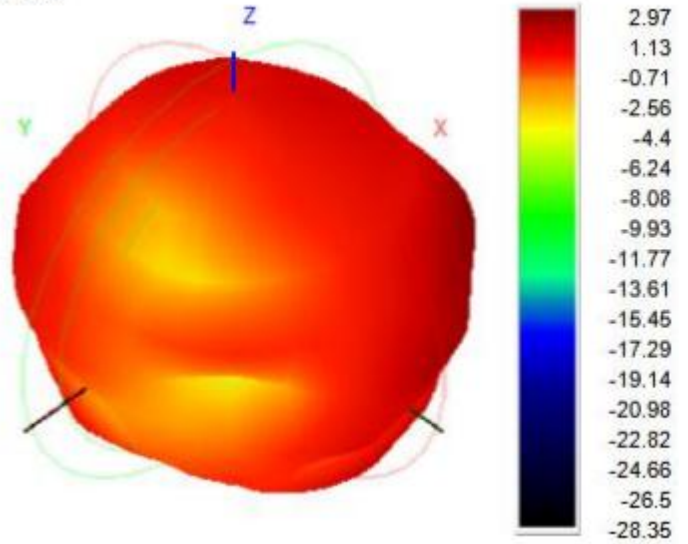
3.5 3D&2D Radiation Patterns



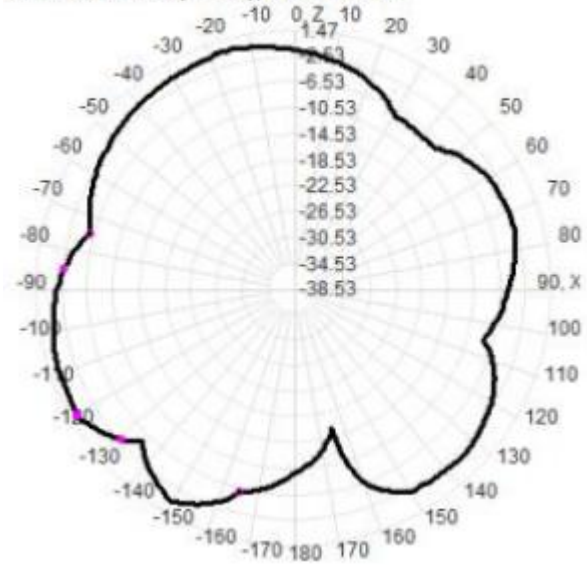
2450.0MHz H+V, Eff: 60.1%



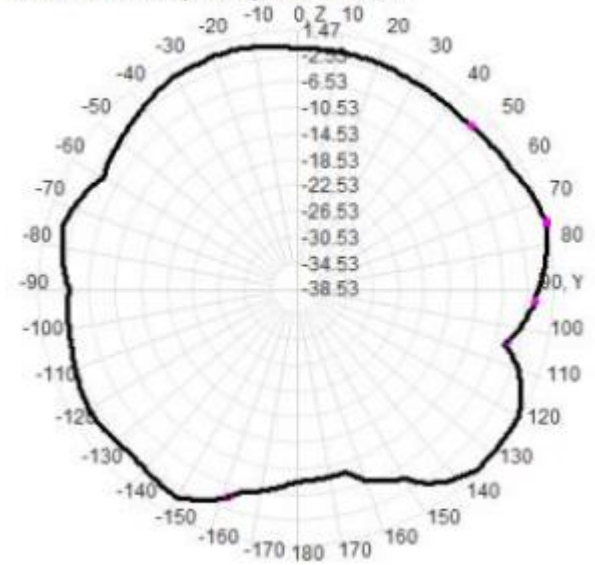
Back View



2450.0MHz Total(E1-XZ), Max= 0.21dBi

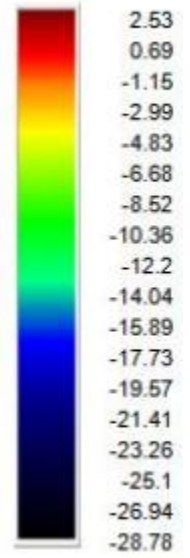
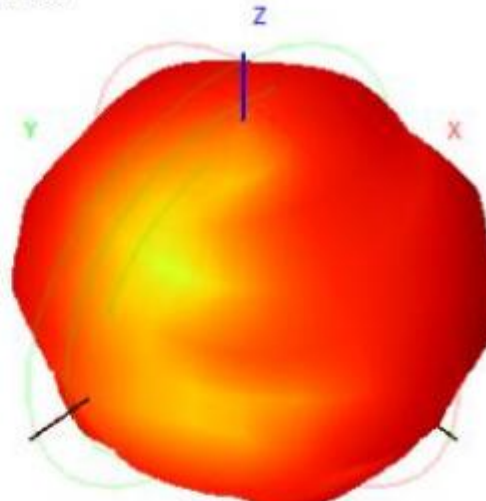
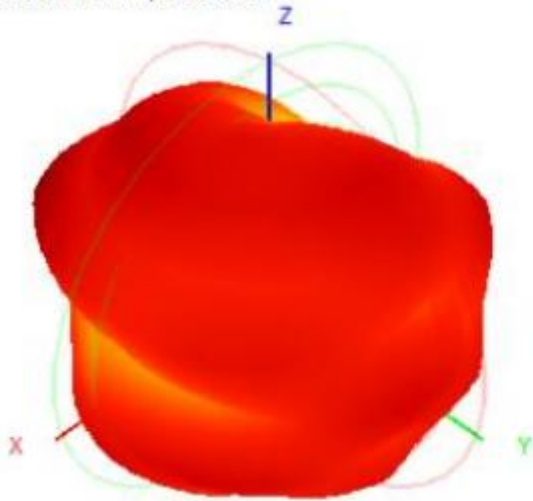


2450.0MHz Total(E2-YZ), Max= 1.47dBi

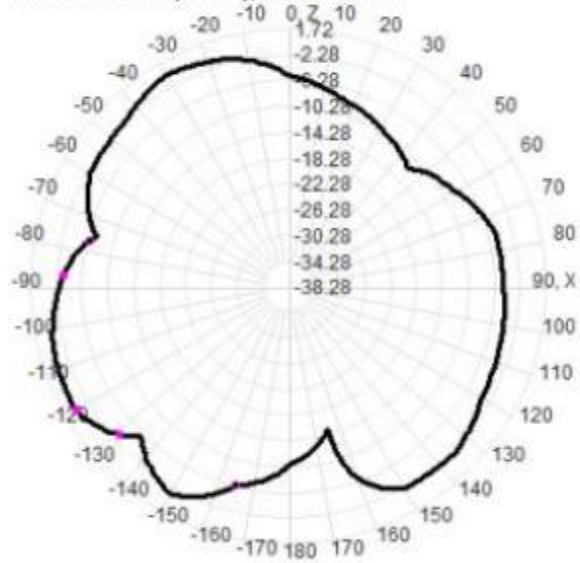


2500.0MHz H+V, Eff: 55.2%

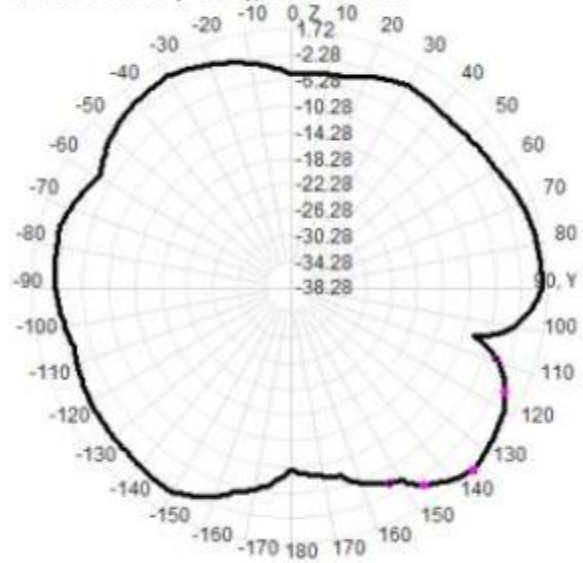
Back View



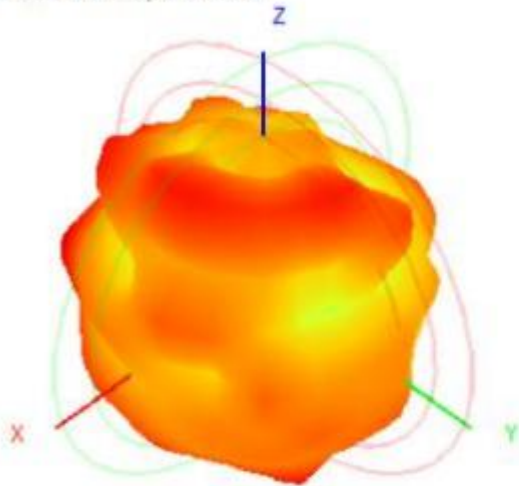
2500.0MHz Total(E1-XZ), Max= -0.27dBi



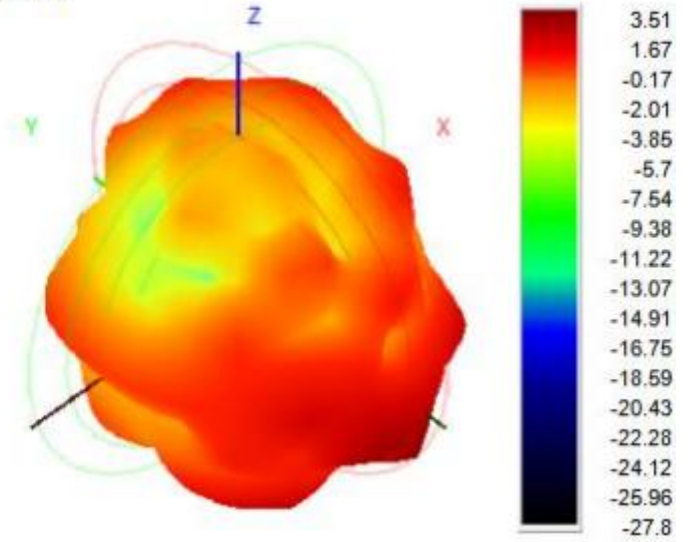
2500.0MHz Total(E2-YZ), Max= 1.72dBi



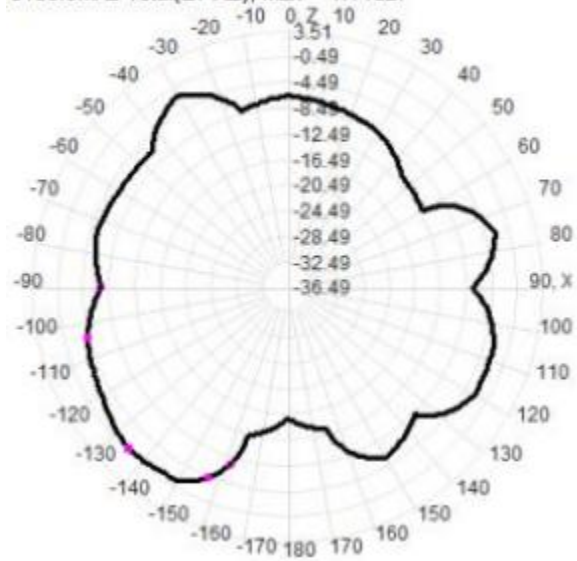
5150.0MHz H+V, Eff: 35.6%



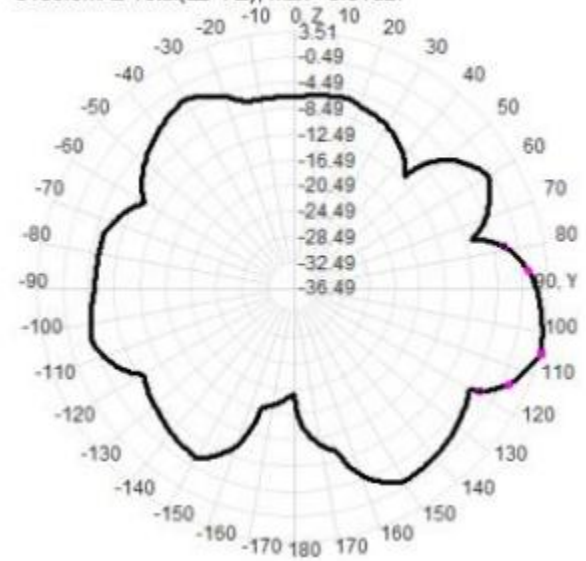
Back View



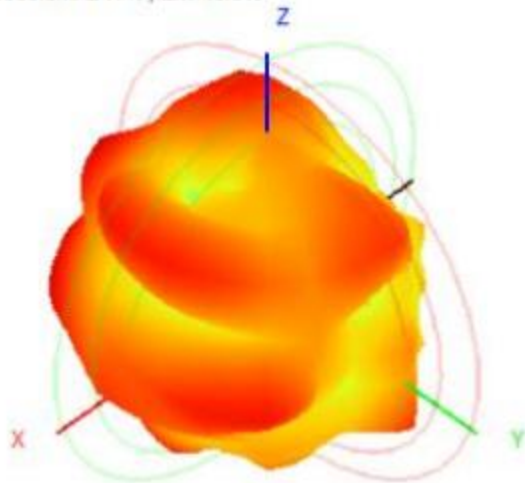
5150.0MHz Total(E1-XZ), Max=-1.14dBi



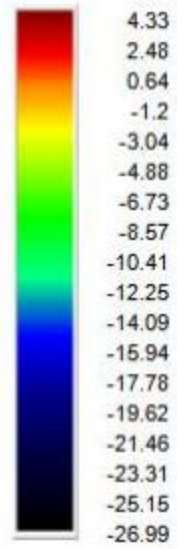
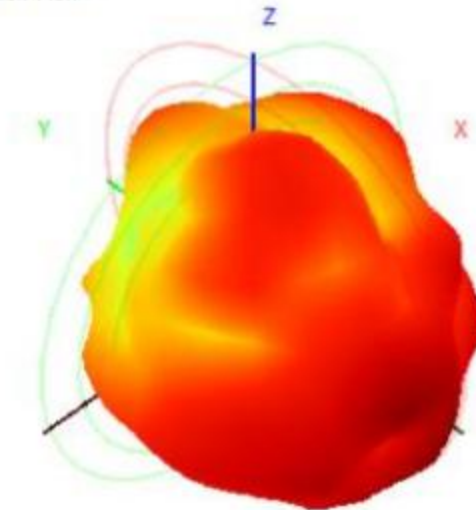
5150.0MHz Total(E2-YZ), Max= 3.51dBi



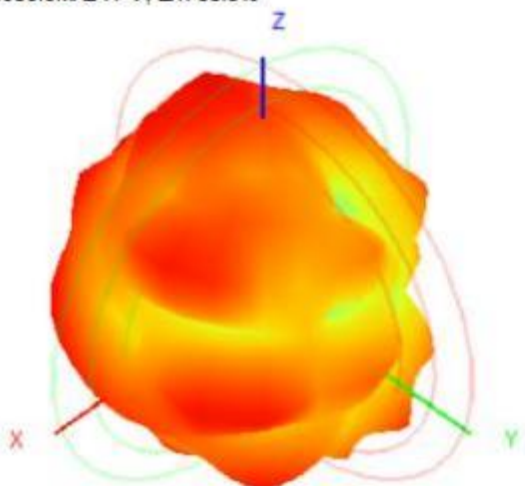
5500.0MHz H+V, Eff: 46.8%



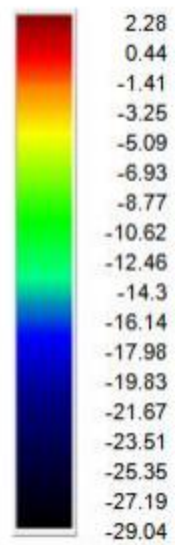
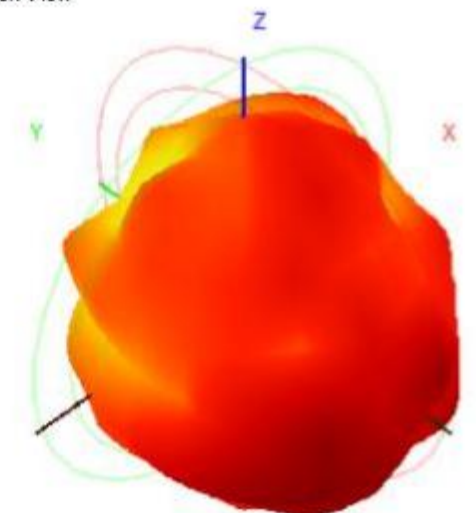
Back View



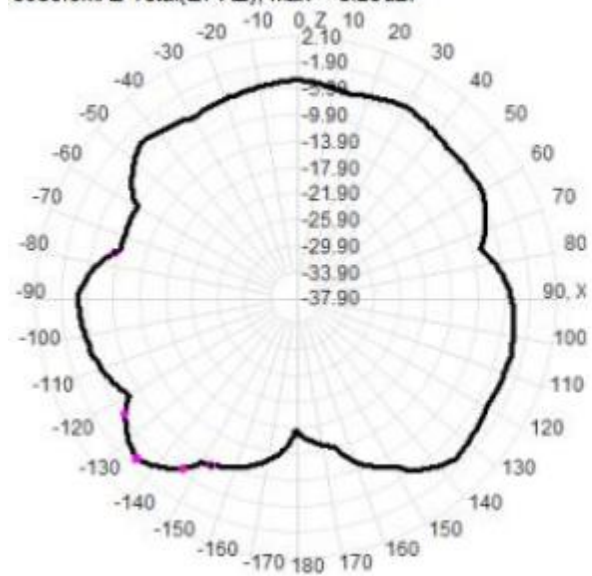
5850.0MHz H+V, Eff: 33.5%



Back View



5850.0MHz Total(E1-XZ), Max= -3.29dBi



5850.0MHz Total(E2-YZ), Max= 1.58dBi

