



深圳市正大信维通讯设备有限公司

Shenzhen Zhengdaxinwei Communication Equipment Co., Ltd

Product Acknowledgment Letter

APPROVAL

Customer Customer Shenzhen Binari Technology Co., Ltd.
CUSTOMER:

Product Name WIFI Antenna

DESCRIPTION:

ModelNumber WIFI Antenna Bluetooth/WIFI 2-in-1_2.4G/5.8G Dual Band
MODEL NO:

Customer Material Number 3.WTO3-1000-00-01
CUS PART NO:

Day Period 2026-05-18
D A T E:

Zhengda Xinyi Signature Seal

WorkCheng ENGINEERING DEPARTMENT	Product Quality Assurance Q C DEPARTMENT	Business Service SALES DEPARTMENT
Chen Shuai Xin	Deng Zheng Fang	Tian Hua Dong

Customer Acknowledgment Signature

WorkCheng ENGINEERING DEPARTMENT	Product Quality Assurance Q C DEPARTMENT	Business Service SALES DEPARTMENT

※ Customer Confirmation of Sample Attached Remarks:

Company Name: Shenzhen Zhengdaxinwei Communication Equipment Co., Ltd.

Company Address: No. 486, Zhangbei Road, Zhangbei Community, Longcheng Street, Longgang District, Shenzhen

Company Website:www.zidasvtx.com Contact Number:0 7 5 5 - 2 8 8 3 9 2 8 6

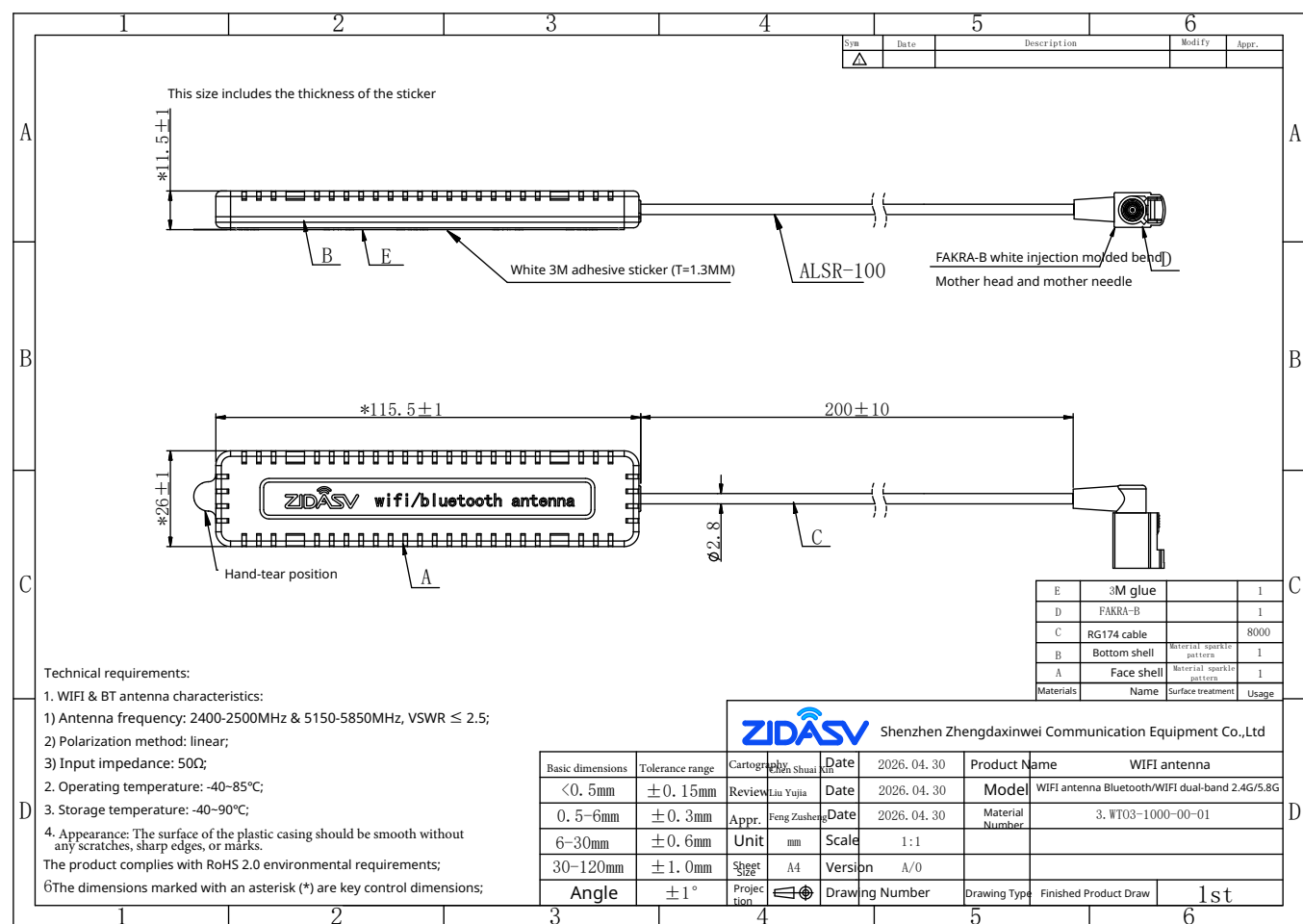
Company Fax:0 7 5 5 - 8 9 9 0 9 2 9 1

Email:luohao@zidasv.net

Description Record

[illegible]

1. Product size



2.Electrical Specification :

Model	WIFI&BT Antenna	Model	WIFI&BT Antenna
Main technical parameters		Main Technical Specifications	
Frequency range (MHz)	2400-2500MHz 5150-5850MHz	Frequency Range (MHz)	2400-2500MHz 5150-5850MHz
Voltage Standing Wave Ratio	≤ 2.5	VSWR	≤ 2.5
Gain (dBi)	3.0	Gain (dBi)	3.0
Input Impedance (Ω)	50	Input Impedance (Ω)	50
Polarization Form	Polarization Type	Polarization Type	linear
Connector Type	FAKRA	Connector Type	FAKRA
Working Temperature	-40°C~+85°C	Working Temperature	-40°C~+85°C
Storage Temperature	-40°C~+90°C	Storage Temperature	-40°C~+90°C

2-1. Frequency Band:

Frequency Band	MHz
WIFI&BT	2400-2500MHz&5150-5850MHz

2-2. Impedance

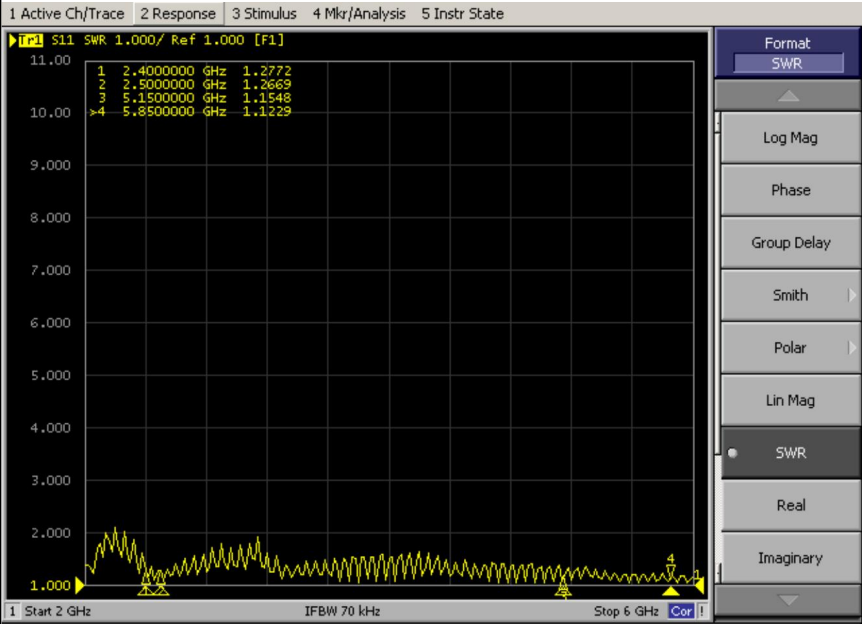
50 ohm nominal

2-3. VSWR

2-3-1.Measurement frequency points and VSWR value

Frequency (Unit MHz)	2400	2500	5150	5850
VSWR	1.27	1.26	1.15	1.12

2-3-2. VSWR

Frequency Band(MHz)	2400	2500	5150	5850
2-3-3. Typical Value:	≤2.5	≤2.5	≤2.5	≤2.5
2-3-4 Measuring Method	1. A 50 Ω coaxial cable is connected to the Antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm			
2-3-5 Picture				

2-4. Efficiency and Gain



This is the microwave anechoic chamber set up by our company in Shenzhen. This microwave anechoic chamber is part of a far-field measurement system, and the size of the chamber is 7.0 meters x 4.0 meters x 3.0 meters, with a quiet zone size of 15 centimeters x 15 centimeters x 15 centimeters.

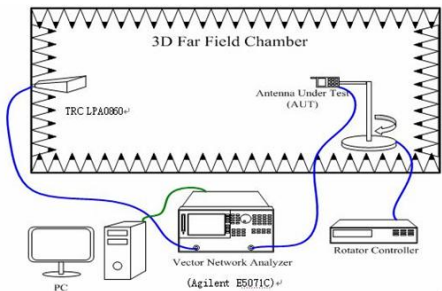


图 1. 微波暗室内仪器设置图

Figure 1 shows the instrument setup in the microwave anechoic chamber and the connection diagram of the network analyzer. The distance from the transmitting antenna to the antenna under test (AUT) is 3.3 meters, and the antenna under test is placed on a rotating platform. By controlling the angle of the turntable, approximate and more accurate measurements can be made for the antenna under test.

The antenna under test is placed on the rotating platform, and the 360-degree field strength data for each plane (ZY plane and ZX plane) is measured. The antenna under test is then replaced with a standard antenna to measure its 360-degree field strength data for gain standard value conversion. The gain value and radiation pattern of the antenna under test can be obtained through the conversion in Equation 1.

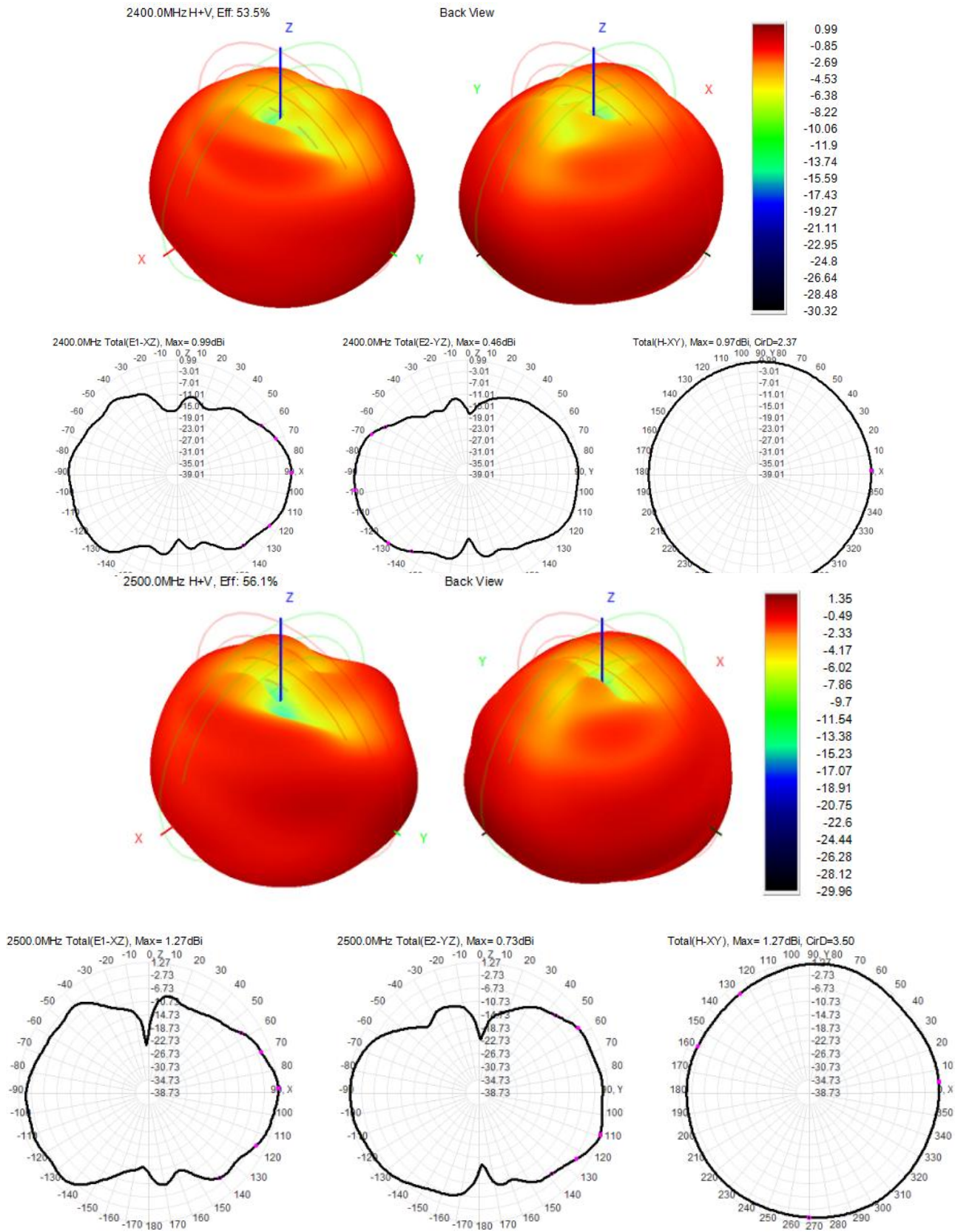
$$G_{AUT} = G_{stand} + P_{AUT} - P_{stand}$$

G_{AUT} : Gain of AUT
 G_{stand} : Gain of Standard Gain Antenna
 P_{AUT} : Measured Power of AUT
 P_{stand} : Measured Power of Standard Gain Antenna

2-4-1 Efficiency and Gain

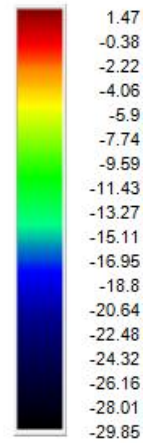
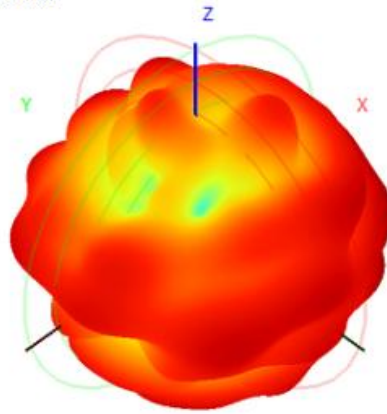
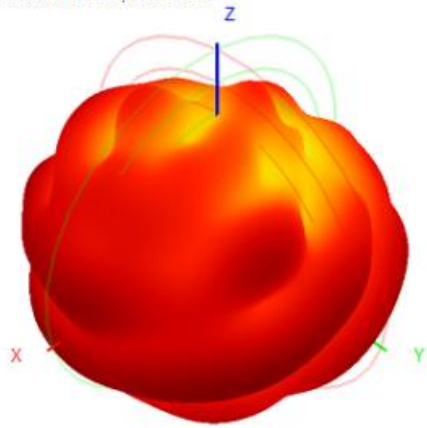
Frequency (MHz)	Gain (dBi)	Efficiency(%)	Frequency (MHz)	Gain (dBi)	Efficiency(%)
2400.0	0.99	53.53	5150.0	1.47	48.32
2410.0	1.57	60.59	5175.0	1.34	48.78
2420.0	1.73	63.55	5200.0	1.12	41.71
2430.0	1.27	57.97	5225.0	2.43	51.52
2440.0	1.19	56.64	5250.0	2.23	45.60
2450.0	1.23	57.34	5275.0	3.77	59.28
2460.0	1.29	57.03	5300.0	3.55	54.79
2470.0	1.57	58.75	5325.0	3.56	51.44
2480.0	1.95	63.61	5350.0	3.75	53.51
2490.0	1.86	63.00	5375.0	2.84	44.29
2500.0	1.35	56.07	5400.0	3.79	54.32
			5425.0	2.57	44.87
			5450.0	3.78	57.49
			5475.0	3.58	53.19
			5500.0	2.37	43.52
			5525.0	2.54	46.45
			5550.0	2.60	38.43
			5575.0	3.79	45.35
			5600.0	3.15	43.93
			5625.0	3.46	48.02
			5650.0	3.43	50.36
			5675.0	2.89	40.59
			5700.0	4.01	44.27
			5725.0	4.10	38.68
			5750.0	4.08	40.41
			5775.0	3.31	42.13
			5800.0	3.02	42.42
			5825.0	3.42	47.07
			5850.0	3.11	39.56

3. Radiation Pattern

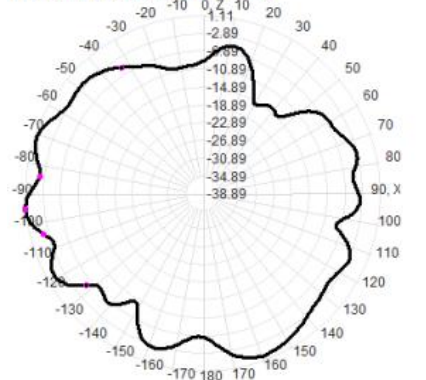


5150.0MHz H+V, Eff: 48.3%

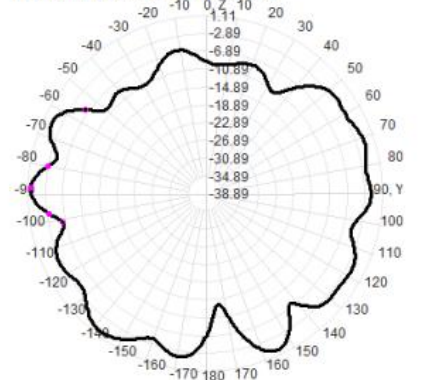
Back View



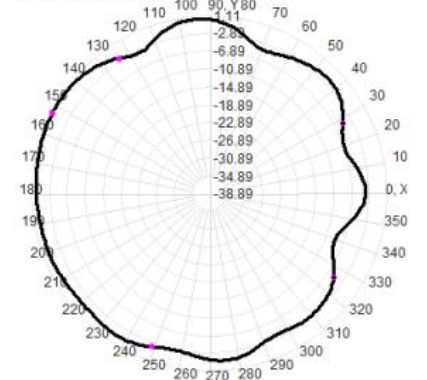
5150.0MHz Total(E1-XZ), Max= 1.11dBi



5150.0MHz Total(E2-YZ), Max= 0.33dBi

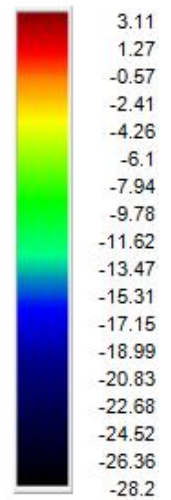
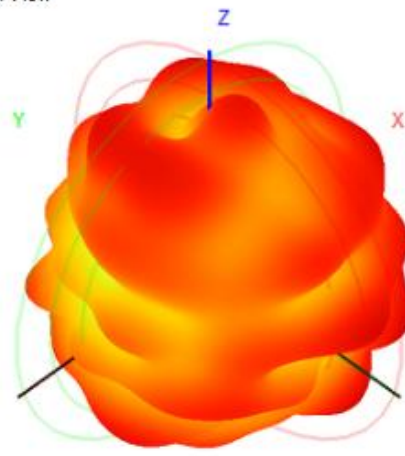
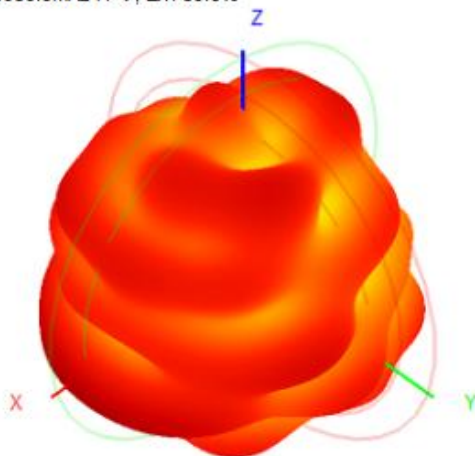


Total(H-XY), Max= 0.84dBi, CirD=9.90

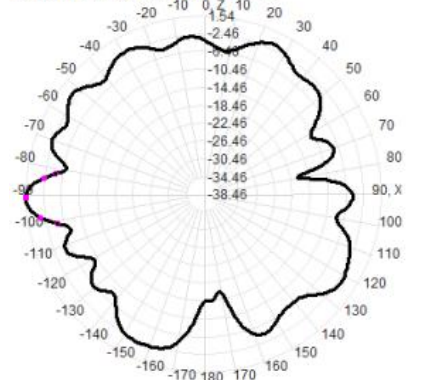


5850.0MHz H+V, Eff: 39.6%

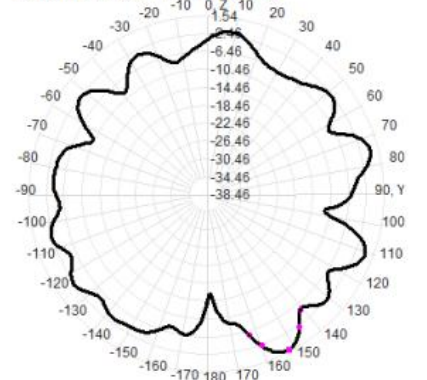
Back View



5850.0MHz Total(E1-XZ), Max= 1.54dBi



5850.0MHz Total(E2-YZ), Max= 0.81dBi



Total(H-XY), Max= 1.42dBi, CirD=9.23

