Antenna Test Report

Test Standard: GB/T9401-2008;ANSI/IEEE 149-1979

Manufacturer: Dongguan Qianhe Electronic Technology Co., Ltd.

Product Name: MINI EMMA NEO

Model: SA299C

Report No.: SSP24102808A

Tested Date: 2024-10-25

Issued Date: 2024-10-28

Tested By: William Liu (Engineer)

Approved By: Lahm Peng (Manager)

Prepared By:

Shenzhen ZRLK Testing Technology Co.,Ltd.

1F, No.35 Building,Changxing Technology Industrial Park,Yutang Street,

Guangming New District,Shenzhen City, Guangdong Province, China

Tel:+86-755-33019599 Fax.:+86-755-33019599 Website:www.zrlklab.com

1. General Information

1.1 Product Information

Manufacturer	
Manufacturer:	Dongguan Qianhe Electronic Technology Co., Ltd.
Address of Manufacturer:	Building 3,No.3, Chang'an Fengsheng Road, Chang'an Town, Dongguan, Guangdong,China

General Description of Antenna	
Product Name:	MINI EMMA NEO
Model No.:	SA299C
Frequency Range:	2400-2500MHz
Type of Antenna:	Chip Antenna
Antenna Gain:	-8.39dBi (Max.)
Impedance:	50 ohm

Antenna View

1.2 Test Methodology

All measurements contained in this report were conducted with standards IEEE 149-1979 for IEEE Standard Test Procedures for Antennas.

1.3 Test Facilities

Testing Lab: ShenzhenZRLK Testing Technology Co., Ltd.
All measurement facilities used to collect the measurement data are located at 1F, No. 35 Building,Changxing Technology Industrial Park. Yutang Street, Guangming New District, Shenzhen City, Guangdong Province, China

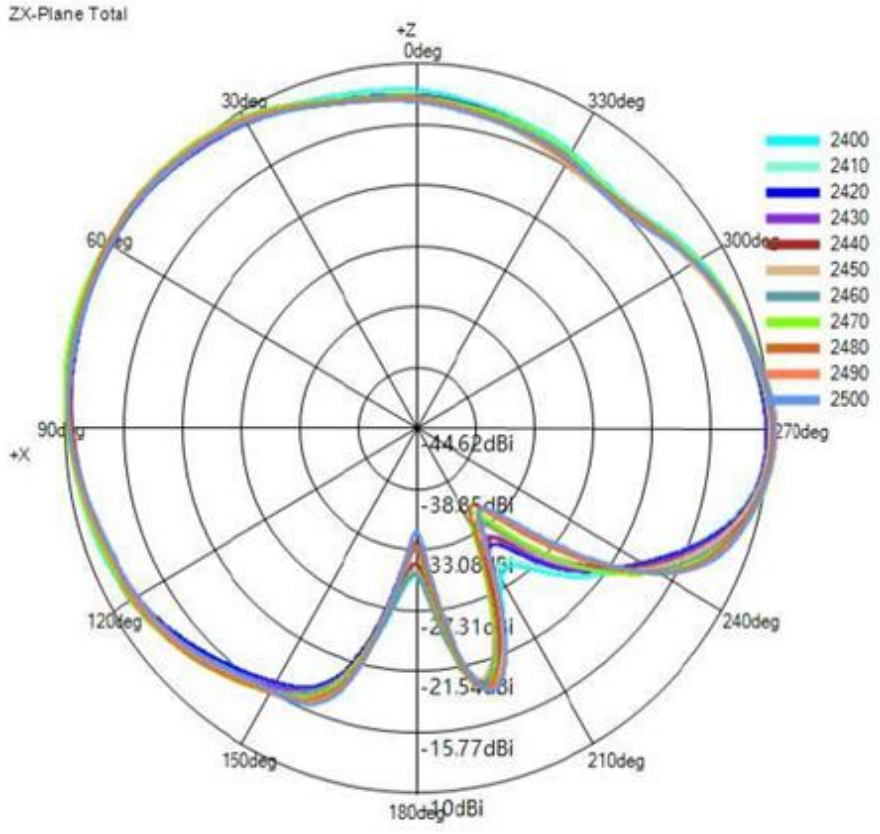
2. OTA Test

2.1 Gain

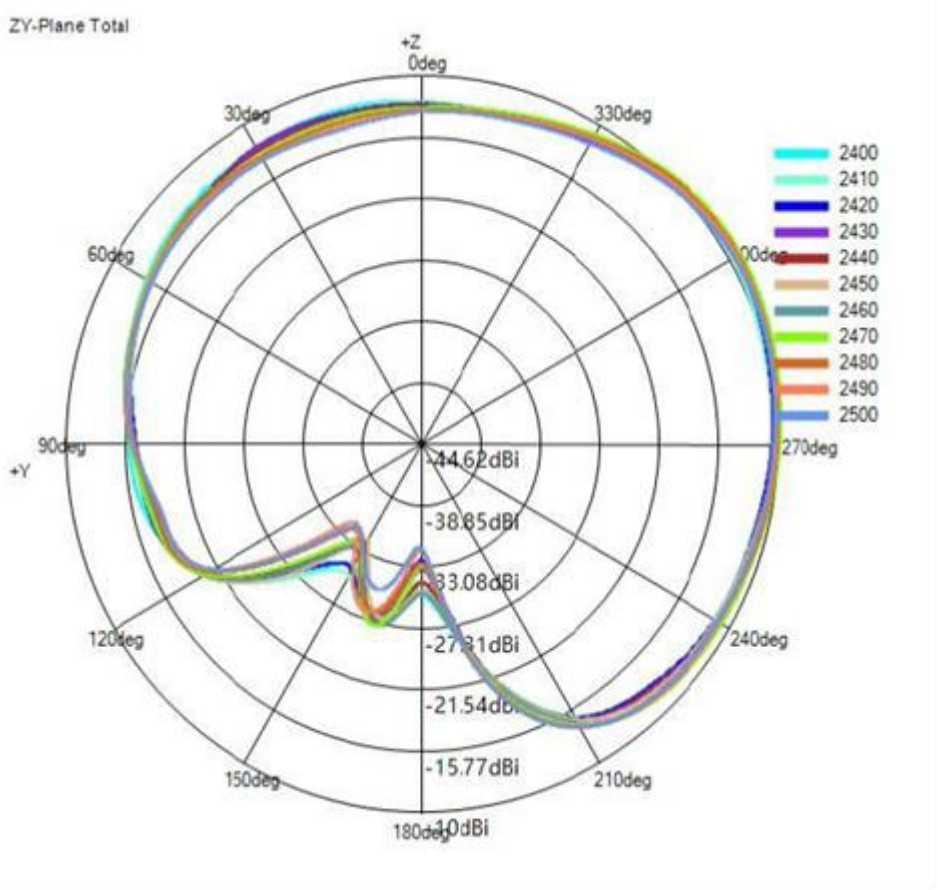
Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain/dBi	-8.95	-9.22	-9.09	-8.85	-8.67	-8.65	-8.50	-8.39	-8.48	-8.43	-8.59
Efficiency/%	5.94	5.76	5.70	5.84	5.92	5.89	6.21	6.43	6.12	6.00	5.88

2.2 Radiation Pattern View

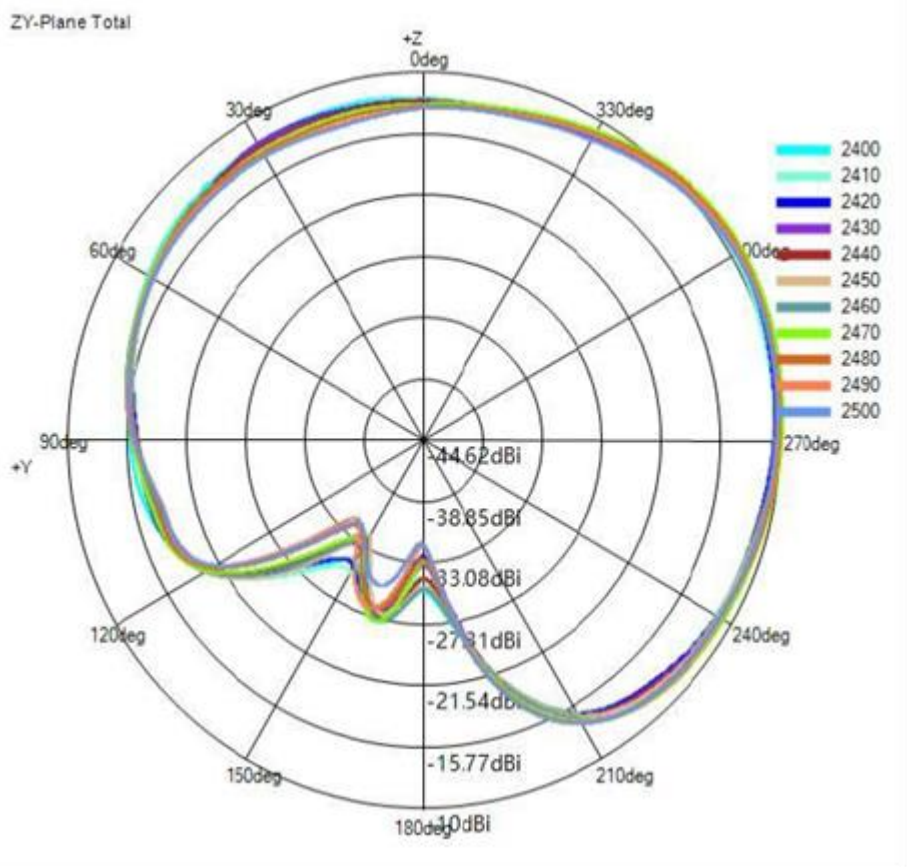
(1) X-Z Plane(unit:dBi):



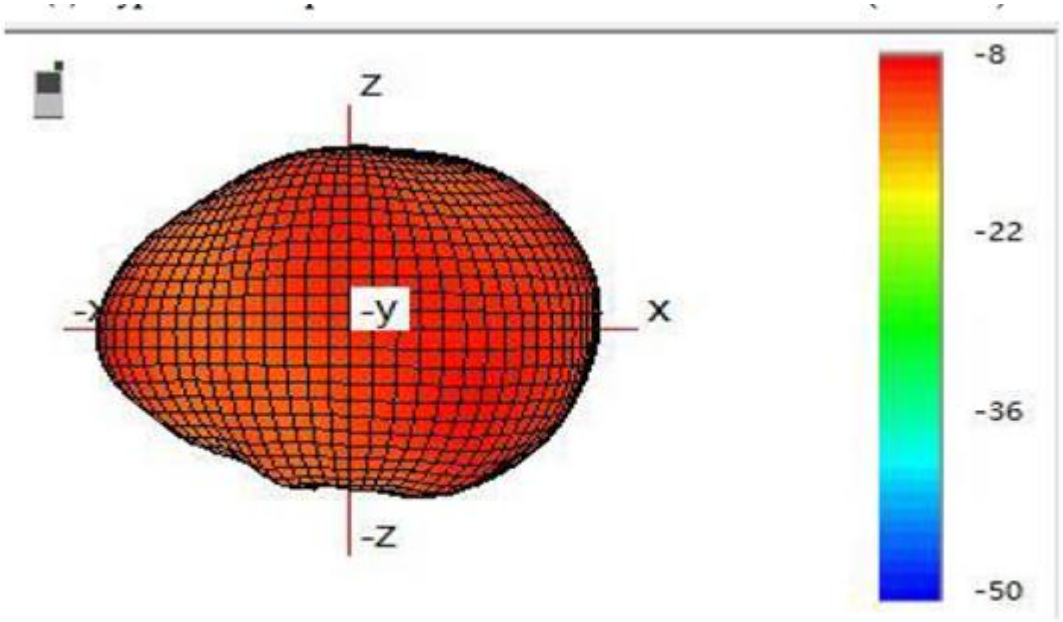
(2) Y-Z Plane(unit:dBi):



(3)X-Y Plane(unit:dBi):



(4) Typical Free Space 3D Radiation Pattern at2.47GHz(unit:dBi):



End