

# Antenna YE0038AA Datasheet

## **Antenna Services**

Version: 0.2

Date: 2024-06-03

Status: Preliminary



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# **About the Document**

# **Revision History**

Version	Date	Author	Note
-	2024-06-03	Aria CHU	Creation of the document
0.2	2020-06-03	Aria CHU	First official release

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## 1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

## 2 Product Features

- Wi-Fi
- High efficiency
- Excellent performance

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## 3 Product Specifications

Passive Electrical Specifications				
Frequency Range	2.4–2.5 GHz, 5.15–5.85 GHz			
Input Impendence	50 Ω			
VOMP	2.4GHz: ≤ 2.0,			
VSWR	5GHz: ≤ 2.8			
Peak Gain	2.4GHz: ≤ 0.73dBi,			
reak Galli	5GHz: ≤1.14dBi			
Polarization Type	Linear			
Antenna Type	Dipole			

Mechanical Specifications				
Antenna Size	195 mm x Ф 13 mm			
Casing	ABS			
Connector Type	SMA Male (Center Pin)			
Working Temperature	-40 °C to +85 °C			
Radome Color	Black			
IP Rating	IP55			

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## 4 Overall Performance

#### 4.1. Test Environment

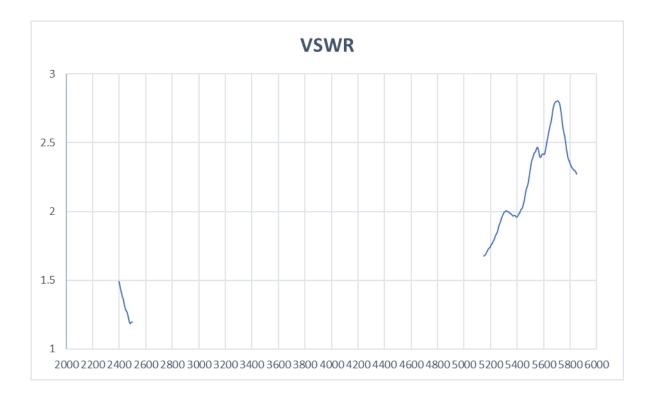
- Network Analyzer: Keysight E5071C (Device number: QTB6331E; Calibration date: 2023-12-27; Due date: 2025-06-26)
- Chamber: OTA RayZone 2800 GTS (Device number: QTA0709; Calibration date: 2023-07-14; Due date: 2024-07-13)
- Testing Software: Libra
- Test Engineer: Aria CHU
- Manufacturer: Quectel Wireless Solutions (Changzhou) Co., Ltd.
   Address: No.8 Nanhu West Road, Wujin District, Changzhou City, Jiangsu Province, China

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## 4.2. Data

## VSWR

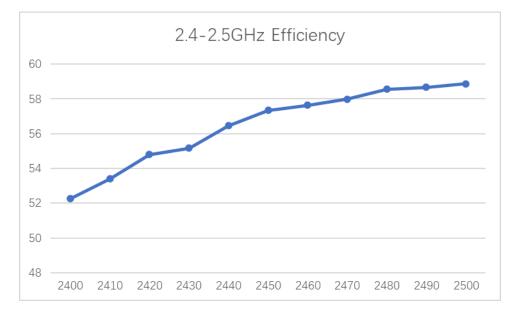


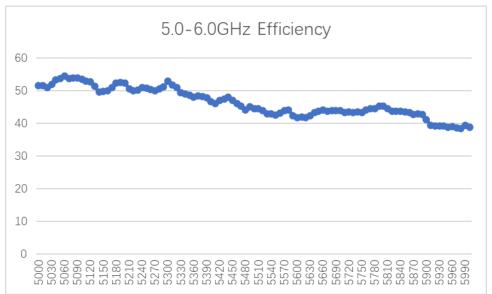
Frequency (MHz)	2400	2500	5150	5850
VSWR	1.49	1.19	1.67	2.27

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## Efficiency



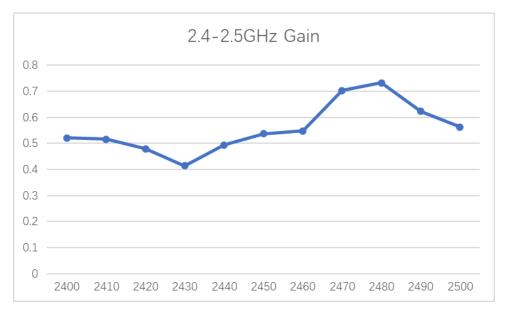


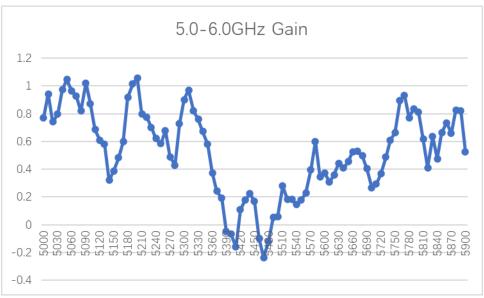
Frequency (MHz)	2400	2500	5150	5850
Efficiency (%)	52.26	59.64	49.76	43.45

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#### Gain





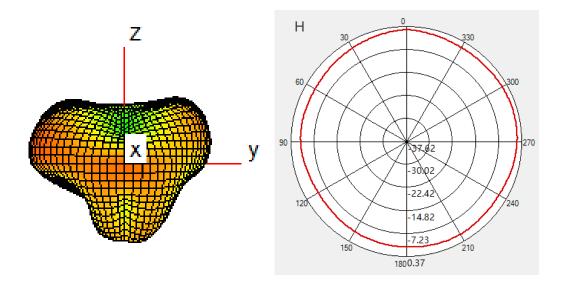
Frequency	2400-2483.5	5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz
(MHz)					
Peak Gain	0.73	1.14	1.00	0.60	0.95
(dBi)					

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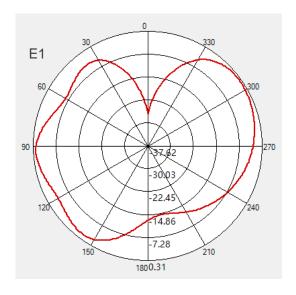
## 4.3. Radiation Pattern

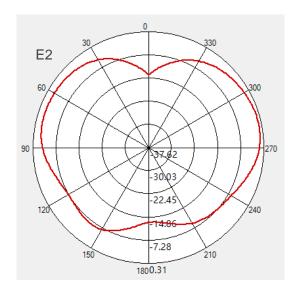
#### 2400 MHz



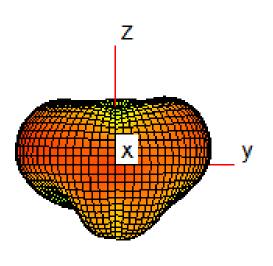
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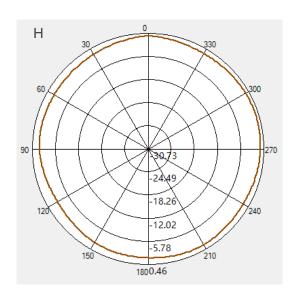


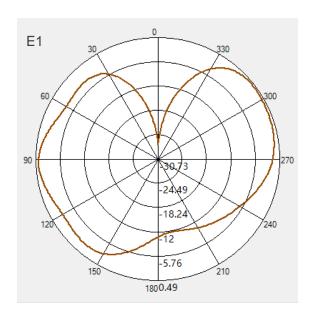


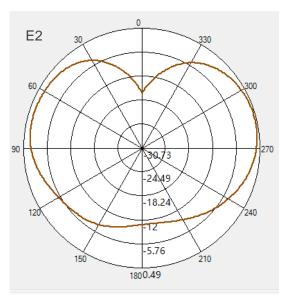


#### 2500 MHz





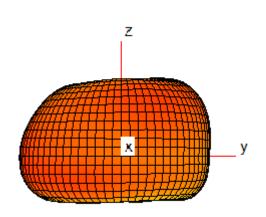


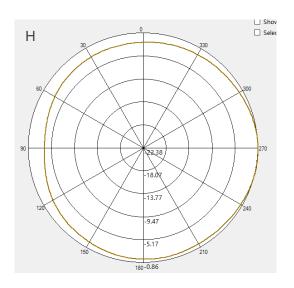


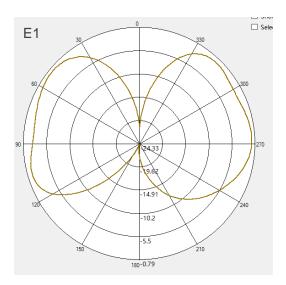
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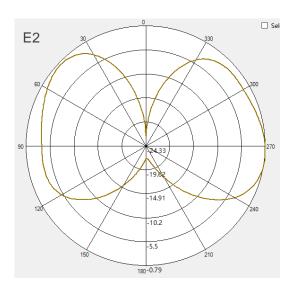


#### 5180 MHz

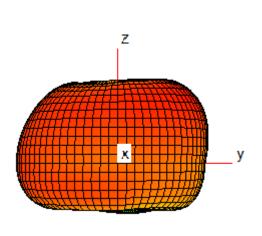


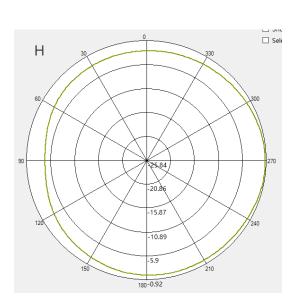






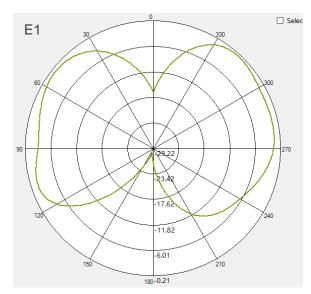
5300 MHz

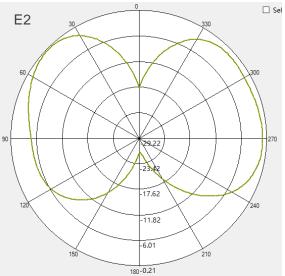




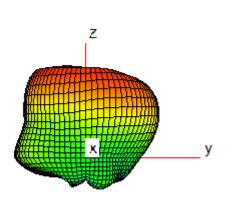
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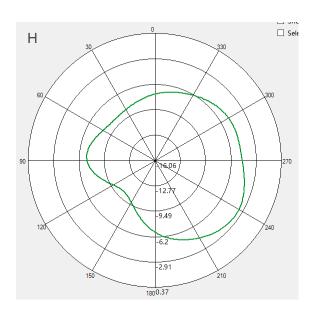


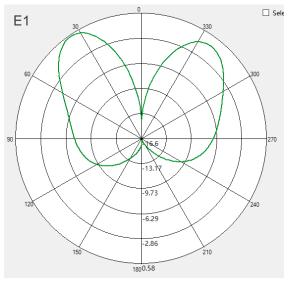


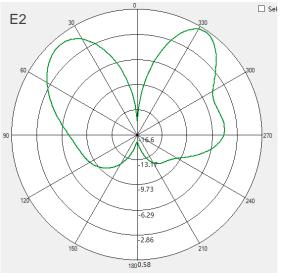


5725 MHz





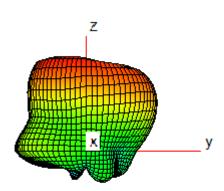


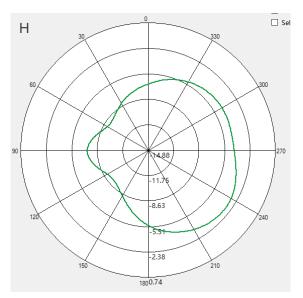


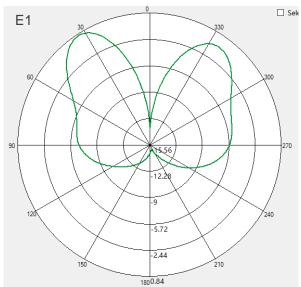
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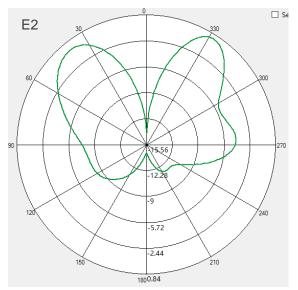


## 5750 MHz









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