



# **AX-28 WiFi Antenna Check Sheet**

**Model: RFDPA161500SBLB803**



**Revision History:**

| Version | Date       | Change Description |
|---------|------------|--------------------|
| 1.0     | 2022/09/27 | New Release        |
|         |            |                    |
|         |            |                    |
|         |            |                    |
|         |            |                    |
|         |            |                    |



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# AX-28 WiFi Antenna Check Sheet

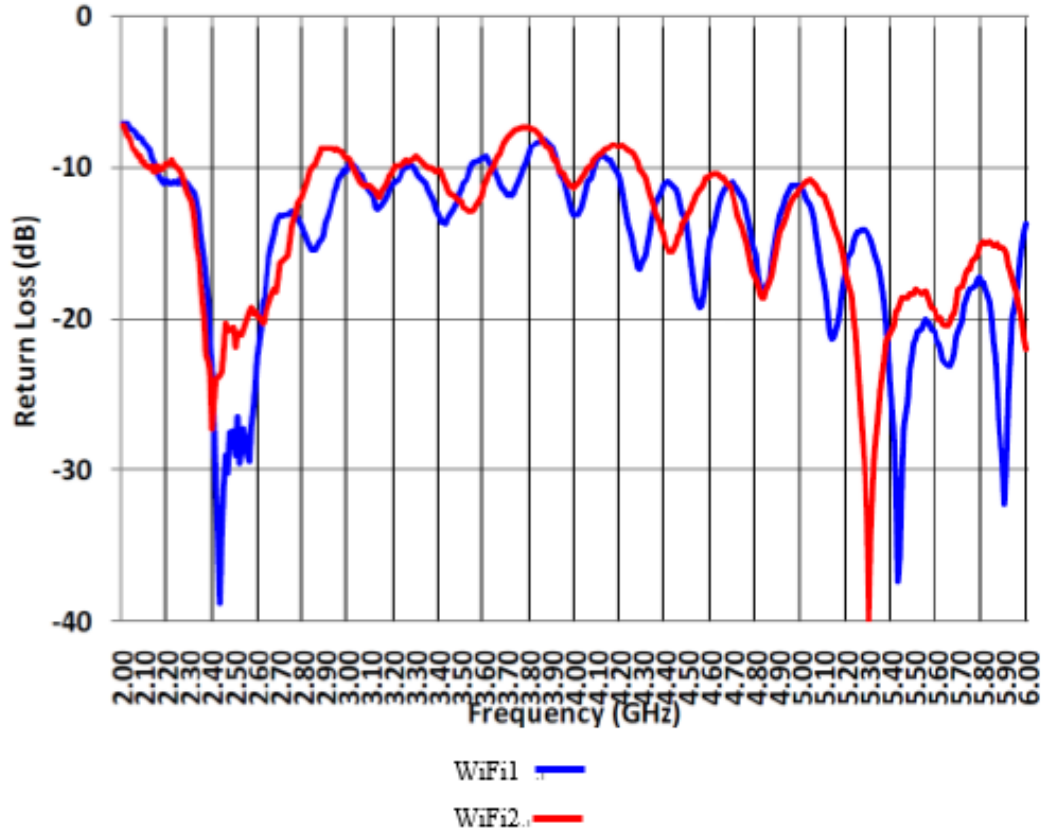
Date: 2023/07/19

## Antenna Specification

| Ant.   | Antenna Brand | Antenna. model     | Antenna type | Antenna Gain (dBi) | Frequency Range from MHz to MHz | Connector type   | Cable length (cm) | Cable Loss |
|--------|---------------|--------------------|--------------|--------------------|---------------------------------|------------------|-------------------|------------|
| WiFi 1 | PSA           | RFDPA161500SBLB803 | Dipole       | 4.33/5.02          | 2400-2500/<br>5150-5850         | Reverse SMA Plug | 28                |            |
| WiFi 2 | PSA           | RFDPA161500SBLB803 | Dipole       | 5.2/4.95           | 2400-2500/<br>5150-5850         | Reverse SMA Plug | 13.5              |            |

### Test Result:

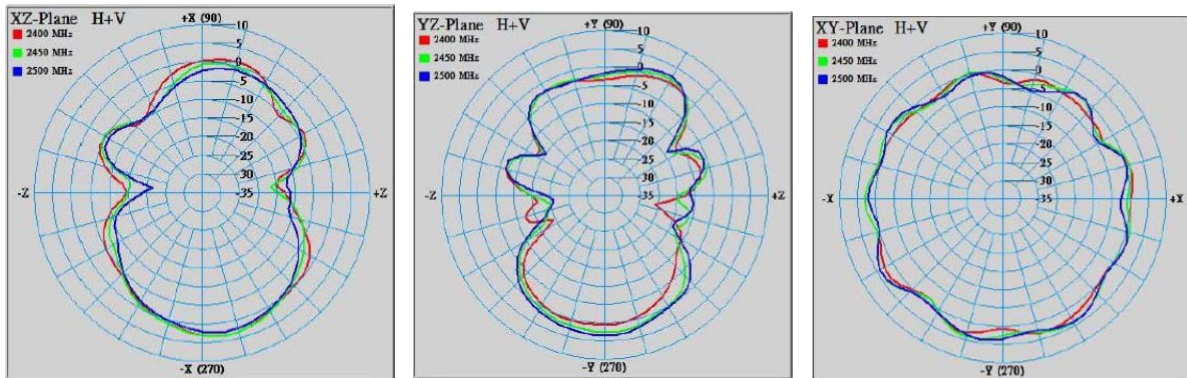
Return Loss



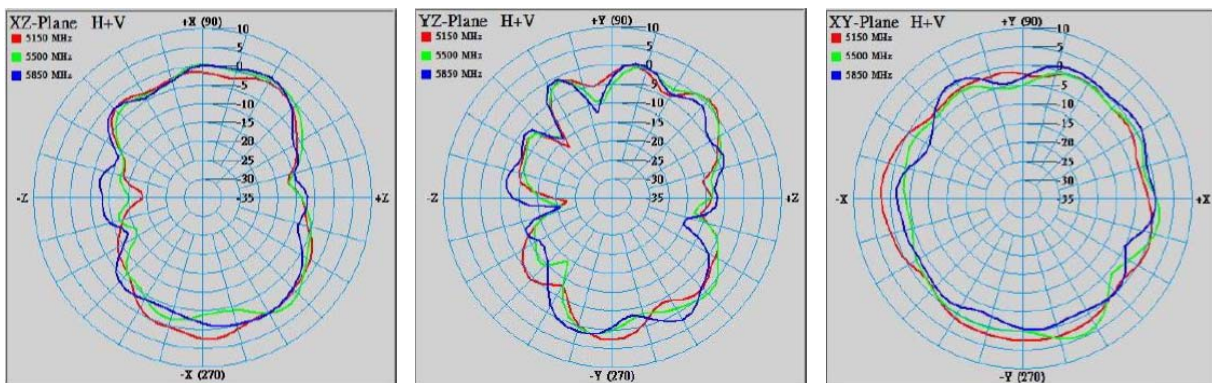
### 2D Radiation Patterns:



### WiFi1 @2G

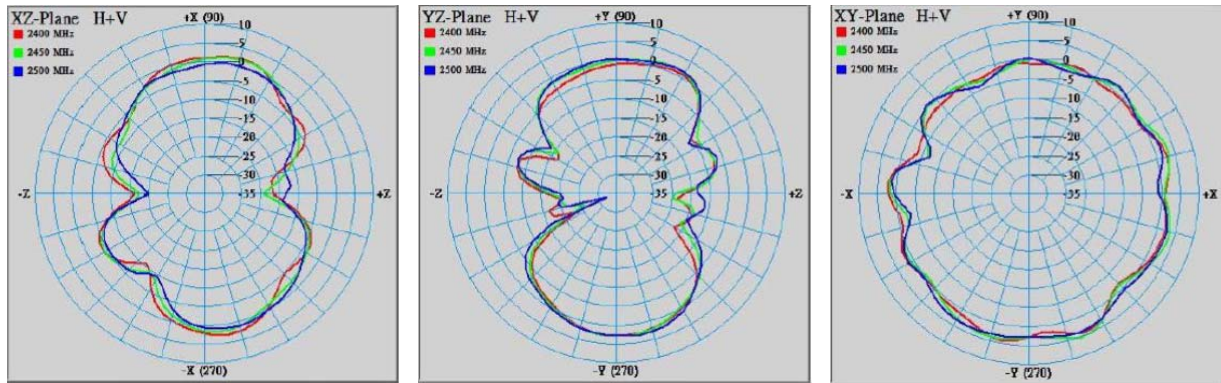


### WiFi1 @5G

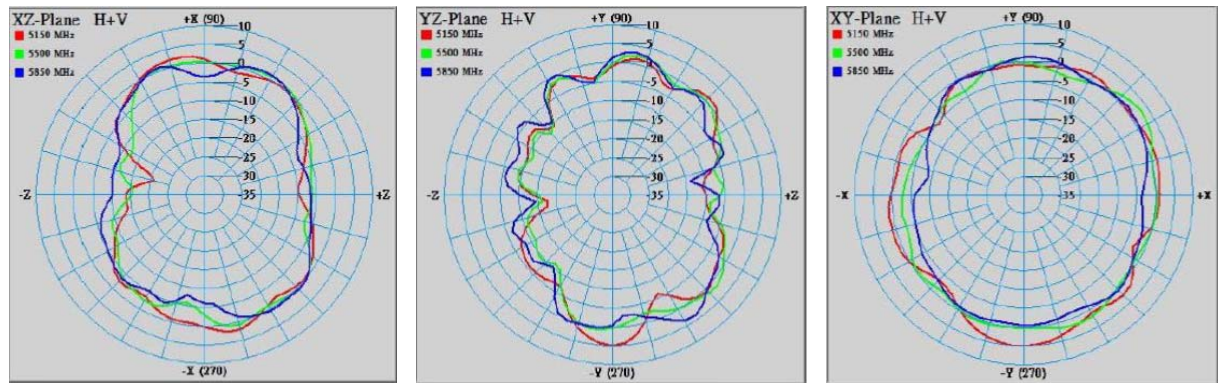




### WiFi2@2G



### WiFi2@5G



Antenna Gain Table:

| Frequency(MHz) | WiFi1(dBi)           | WiFi2(dBi)           |
|----------------|----------------------|----------------------|
| 2400           | 3.91                 | 4.5                  |
|                | Theta 60° / phi 64°  | Theta 260° / phi 84° |
| 2450           | 4.33                 | 5.2                  |
|                | Theta 256° / phi 90° | Theta 292° / phi 90° |
| 2500           | 4.26                 | 4.0                  |
|                | Theta 212° / phi 86° | Theta 292° / phi 92° |

| Frequency(MHz) | WiFi1(dBi)           | WiFi2(dBi)           |
|----------------|----------------------|----------------------|
| 5150           | 2.9                  | 4.95                 |
|                | Theta 64° / phi 78°  | Theta 270° / phi 90° |
| 5500           | 5.02                 | 3.33                 |
|                | Theta 294° / phi 92° | Theta 34° / phi 88°  |
| 5850           | 2.97                 | 4.06                 |
|                | Theta 284° / phi 58° | Theta 274° / phi 56° |



# AX-28 WiFi Antenna Check Sheet

Date: 2023/07/19

Antenna Vendor information:

Walsin Technology Corporation

Address: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan



Antenna Vendor : PSA

Test date: 2022/09/27

Test Engineer: Jason

Address of test site: 566-1, Ko-Shi Road , Yang-Mei, Tao-Yuan, 32668, Taiwan

Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : Keysight VNA E5063A

-Setup:

VNA RF port connect to DUT

Pattern Measurement:

-Chamber : Satimo SG24

-Test Program:SPM1.11

The antenna gain of the antenna model: RFDPA161500SBLB803 was measured by PSA.

Test instrument calibration information:

| Vendor   | Model      | Calibrated Date | Calibrated Until |
|----------|------------|-----------------|------------------|
| Keysight | VNA E5063A | 2022/03/17      | 2023/03/16       |





## Appendix

Antenna Vendor : PSA

Test date:2022/09/27

Test Engineer :Jason

Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : Keysight VNA E5063A

-Setup:

VNA RF port connect to DUT

Pattern Measurement:

-Chamber : Satimo SG24

-Test Program:SPM1.11