



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUOA2502000026AT01  
Rev.: 01  
Page: 1 of 17

# ANTENNA PASSIVE TEST REPORT

Application No. SUOA2502000026AT  
Applicant Backbone Labs, Inc.  
Manufacturer The Antenna Company International N.V.  
Type Name N/A  
Model No. AC10267-01A  
Standards ANSI/IEEE Std 149-2021  
Date Initial Sample(s) Received 2025-02-25  
Testing Start Date 2025-02-26  
Testing Finish Date 2025-02-26  
Report Issue Date 2025-03-07

\*In the configuration tested, the EUT complied with the standards specified above.

Leno Shi

Prepared by: Leno Shi/ Project  
Manager

Caleb Gao

Approved by: Caleb Gao/  
Technical Manager (Title)

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Revision History

| Revision | Issue Date | Description                 |
|----------|------------|-----------------------------|
| 01       | 2025-03-07 | The Final Version of Report |

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### 1 General Information

#### 1.1 Testing Laboratory

Identification of the Responsible Test Laboratory

|          |                                                                                                                        |
|----------|------------------------------------------------------------------------------------------------------------------------|
| Test Lab | SGS-CSTC Standards Technical Service ( Suzhou ) Co., Ltd.                                                              |
| Address  | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Contact  | Caleb Gao                                                                                                              |
| Tel.     | +86 13621559335                                                                                                        |
| Fax      | N/A                                                                                                                    |
| E-mail   | Caleb.Gao@sgs.com                                                                                                      |

#### 1.2 Details of Applicant

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Applicant's Name    | Backbone Labs, Inc.                                       |
| Applicant's Address | 1815 NW 169th Place, Suite 4020, Beaverton, OR 97006, USA |
| Contact             | Sydney Newton                                             |
| Tel.                | +86 15034003165                                           |
| Fax                 | N/A                                                       |
| E-mail              | sydney@playbackbone.com                                   |

#### 1.3 Details of Manufacturer

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| Manufacturer's Name    | The Antenna Company International N.V.                              |
| Manufacturer's Address | High Tech Campus Building HTC-29 5656 AE, Eindhoven The Netherlands |
| Contact                | N/A                                                                 |
| Tel.                   | N/A                                                                 |
| Fax                    | N/A                                                                 |
| E-mail                 | N/A                                                                 |

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## 1.4 Description of EUT(s)

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Device Description:                       | Antenna                                |
| Device type:                              | N/A                                    |
| Device Manufacturer:                      | The Antenna Company International N.V. |
| Device Model:                             | AC10268-01A                            |
| Hardware Version:                         | 0.4.0                                  |
| Software Version:                         | 0.9.3                                  |
| IMEI:                                     | N/A                                    |
| Air Interface Supported                   | N/A                                    |
| Air Interface Tested Device Power Class:  | N/A                                    |
| Antenna Dimension:                        | 32mm (L) x 6mm (W) x 0.2mm (H)         |
| Antenna type:                             | FPC Antenna                            |
| Configuration of Primary Mechanical Mode: | N/A                                    |

## 1.5 Test Procedure

Testing is performed according to **ANSI/IEEE Std 149-2021**.

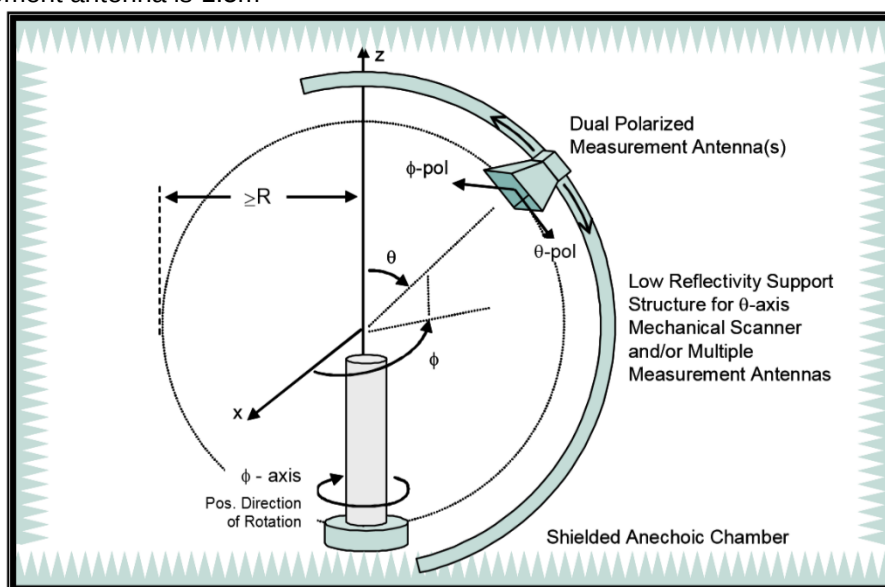
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## 2 Measurement System Information

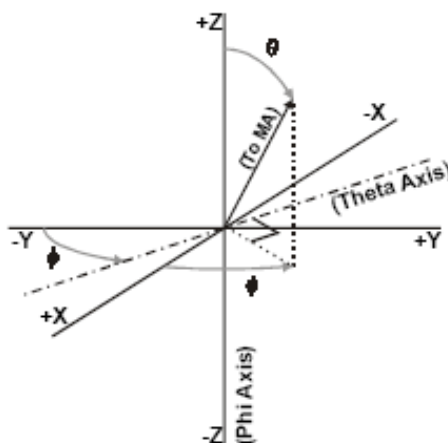
### 2.1 Test Configuration

Conical-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1.5m



### 2.2 Test Measurement

Spherical coordinate system



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### 3 Equipment List

| Inventory No. | Equipment                           | Manufacturer     | Model No.                               | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|------------------|-----------------------------------------|------------------|----------------------|
| SUWI-01-06-01 | Network Analyzer                    | R&S              | ZNB8<br>S/N 103535                      | 2025-01-16       | 2026-01-15           |
| SUWI-02-06-01 | Switch Control System               | R&S              | OSP 130<br>S/N 100358                   | N/A              | N/A                  |
| SUWI-02-07-01 | Test Software                       | ETS-Lindgren L.P | EMQuest™ REV 1.14<br>Build 31654        | N/A              | N/A                  |
| SUWI-04-04-01 | Full Anechoic Wireless Test chamber | ETS-Lindgren L.P | ETS-Lindgren AMS- 8923<br>CT000596-1149 | 2024-05-08       | 2027-05-07           |

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## 4 Measurement Uncertainty

| Item                                                  | 617-698MHz (dB) | 699-798MHz (dB) | 814-894MHz (dB) | 1695-1780MHz (dB) | 1850-2020MHz (dB) | 2300-2800MHz (dB) | 3300-3800MHz (dB) | 5150-5925MHz (dB) |
|-------------------------------------------------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Gain                                                  | 0.75            | 0.9             | 0.74            | 0.84              | 0.83              | 0.9               | 0.84              | 0.86              |
| Efficiency                                            | 0.75            | 0.9             | 0.74            | 0.84              | 0.83              | 0.9               | 0.84              | 0.86              |
| Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2 |                 |                 |                 |                   |                   |                   |                   |                   |

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## 5 Test Result(s)

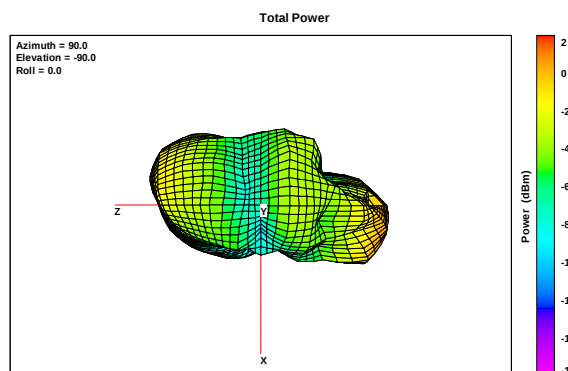
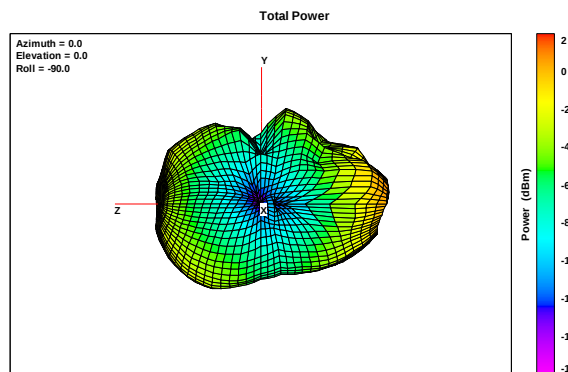
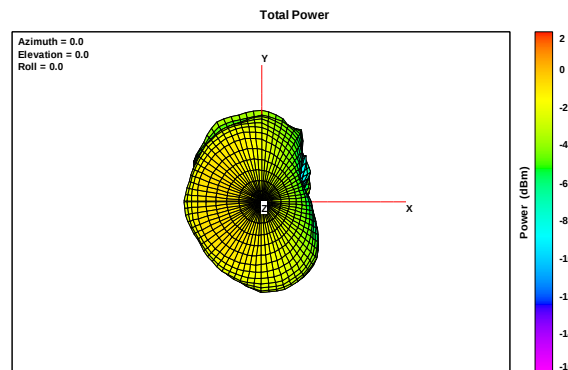
| Frequency(MHz) | Gain(dBi) | Efficiency(%) |
|----------------|-----------|---------------|
| 2400           | 1.00      | 31.90         |
| 2410           | 0.98      | 31.69         |
| 2420           | 1.21      | 32.47         |
| 2430           | 1.53      | 32.45         |
| 2440           | 1.48      | 31.28         |
| 2450           | 1.05      | 30.96         |
| 2460           | 0.83      | 31.98         |
| 2470           | 0.74      | 31.98         |
| 2480           | 0.91      | 31.35         |
| 2490           | 1.15      | 32.87         |
| 2500           | 1.37      | 33.63         |

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## 6 Antenna Pattern

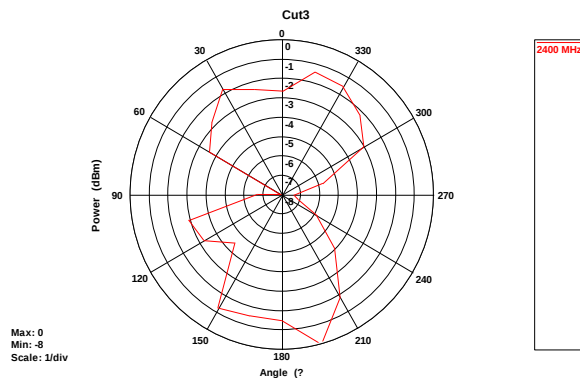
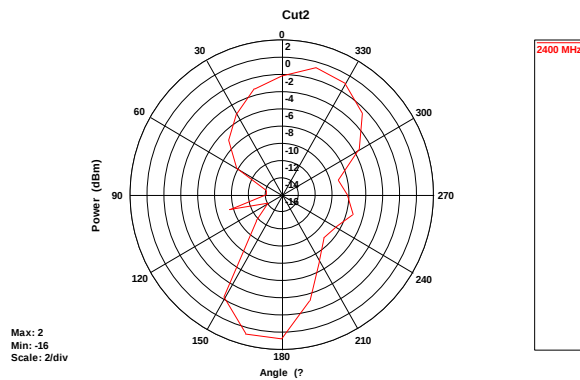
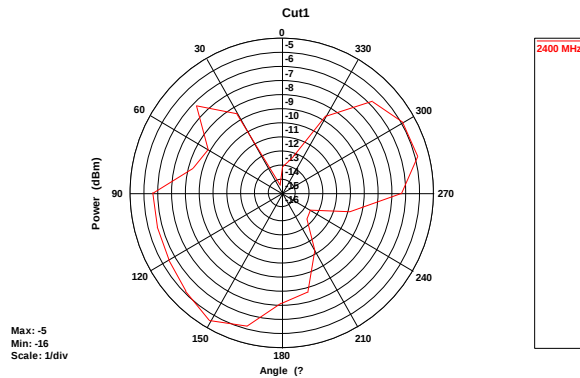
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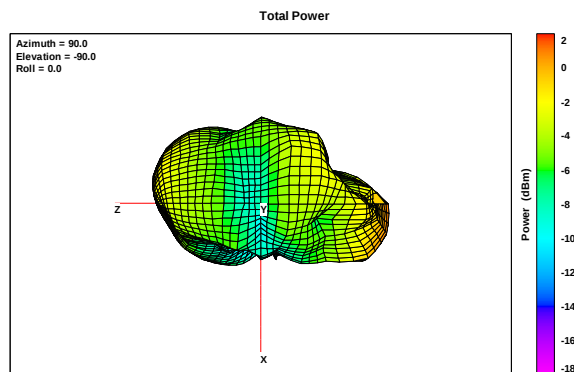
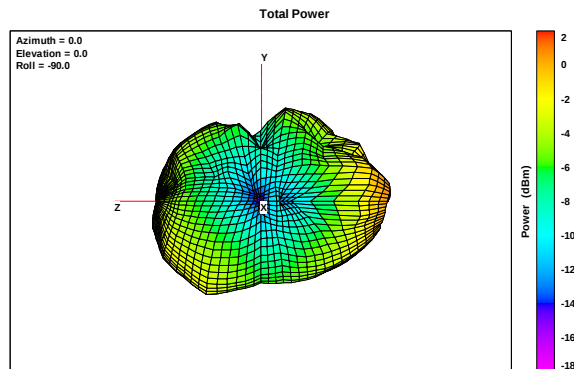
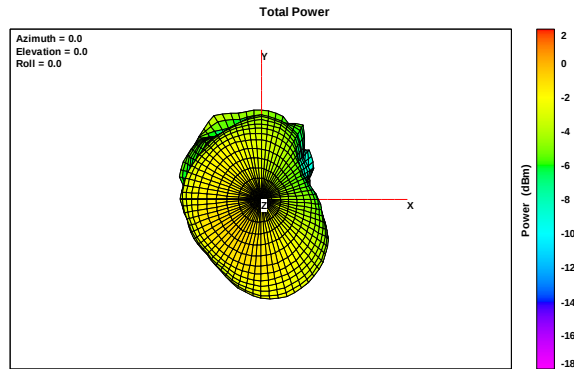
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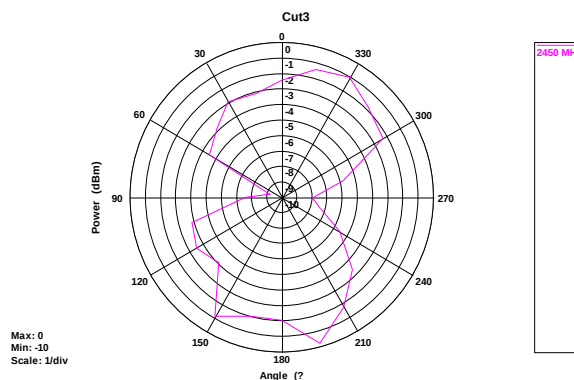
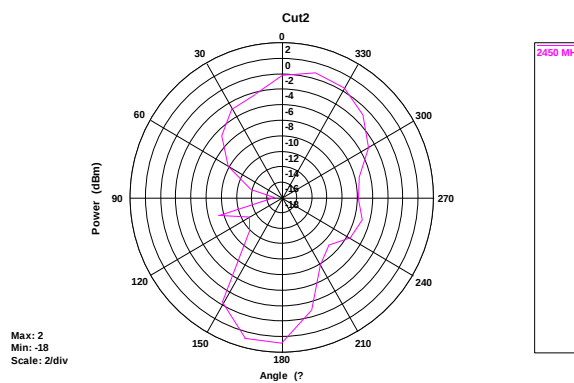
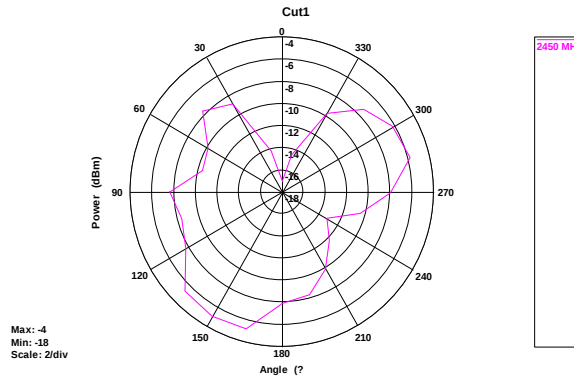
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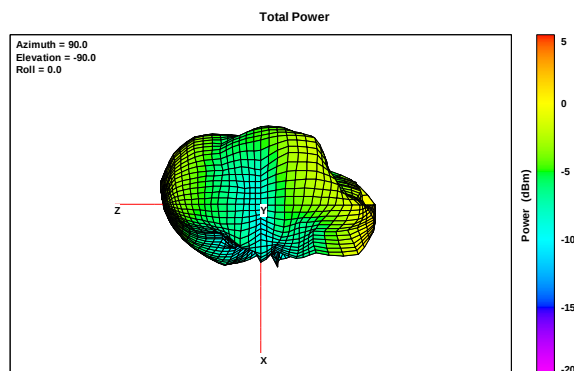
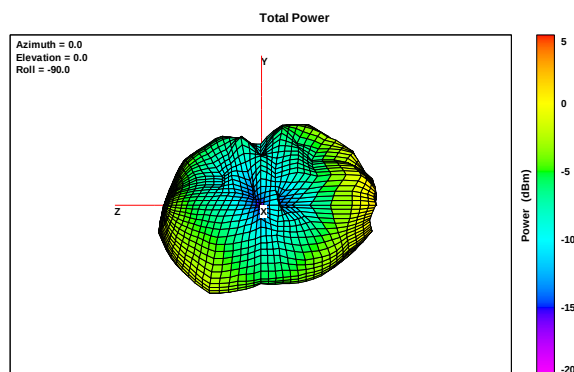
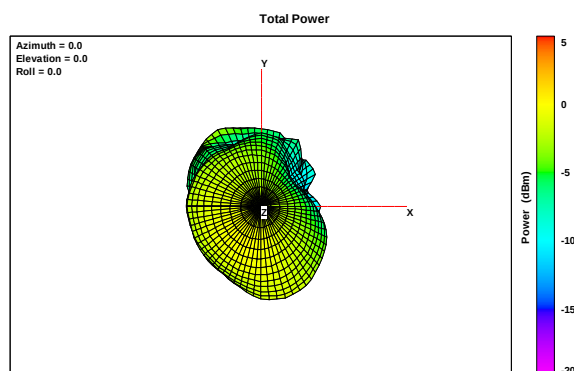
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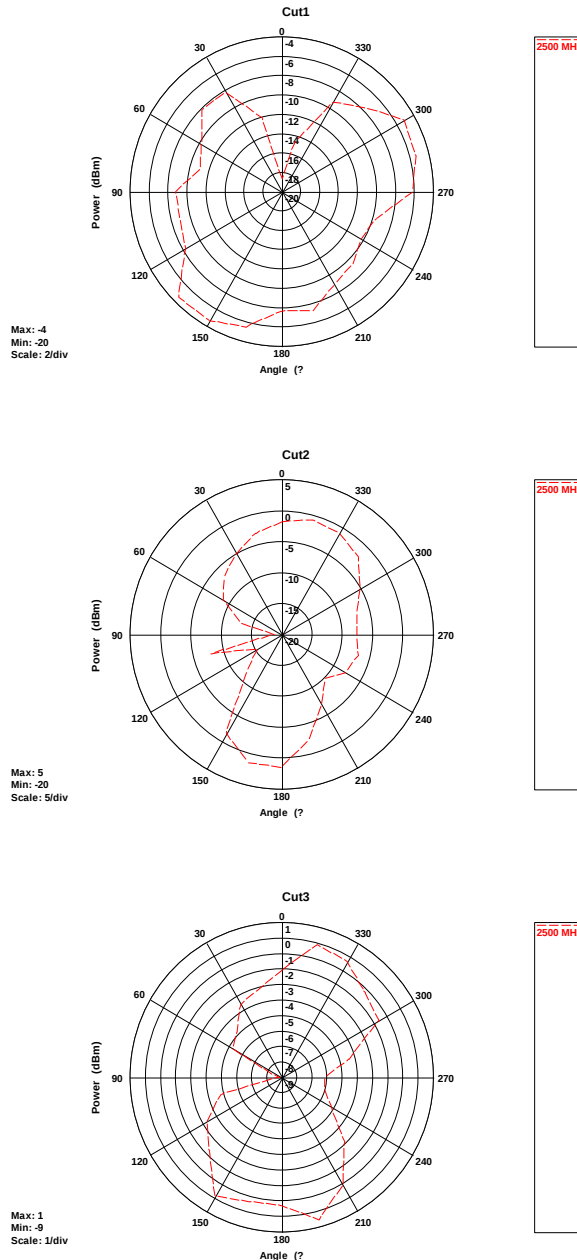
### 2500MHz / 3D Pattern



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### 2500MHz / 2D Pattern



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### 7 EUT and Test Configuration



EUT antenna location



EUT

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View of Free Space Configuration

---End of Report---

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