

Shenzhen Branch

Report No.: ZEWM2304000479OA01

Rev.00

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# ANTENNA PASSIVE TEST REPORT

Application No. ZEWM2304000479OA **Applicant** Ember Technologies, Inc Manufacturer Ember Technologies, Inc

**Product Name Baby Bottle** 

Model No. **BB23** 

**Standards** ANSI/IEEE Std 149-2008

Date Initial Sample(s) Received 2023.04.18 **Testing Start Date** 2023.04.18 **Testing Finish Date** 2023.04.18 **Report Issue Date** 2023.05.17

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Yuanyu Luo

Prepared by

Max. Huang

Ervin Li





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# **Revision Version**

| Report No.         | Version | Date       | Memo                       |
|--------------------|---------|------------|----------------------------|
| ZEWM2304000479OA01 | 00      | 2023.05.17 | Initial creation of report |



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#### 1 **General Information**

#### 1.1 Testing Laboratory

| U        |  |
|----------|--|
| Test Lab | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen   |
| Test Lab | Branch   |
| Address  | No. 1 Workshop, M-10, Middle section, Science & Technology |
| Address  | Park, Nanshan District, Shenzhen, Guangdong, China 518057  |
| Contact  | Ervin Li   |
| Tal      | .00.4000000004   |
| Tel.     | +86 18823369694  |
| Fax      | +86-755-25328600   |
|          |  |
| E-mail   | Ervin.Li@sgs.com   |
|          |  |

### 1.2 Details of Applicant

| Applicant's Name    | Ember Technologies, Inc                   |
|---------------------|---|
| Applicant's Address | 1 Baxter Way, Thousand Oaks, CA 91362 USA |
| Contact             | Wajiha Saqib                              |
| Tel.                | +1 832 566 5934                           |
| Fax                 | N/A                                       |
| E-mail              | Wajiha.saqib@ember.com                    |

#### 1.3 Details of Manufacturer

| Manufacturer's Name    | Ember Technologies, Inc.                  |
|------------------------|---|
| Manufacturer's Address | 1 Baxter Way, Thousand Oaks, CA 91362 USA |
| Contact                | Wajiha Saqib                              |
| Tel.                   | +1 832 566 5934                           |
| Fax                    | N/A                                       |
| E-mail                 | Wajiha.saqib@ember.com                    |



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### 1.4 General Description of EUT

| Device Description:  | Baby Bottle             |  |
|----------------------|-------------------------|--|
| Device Manufacturer: | Ember Technologies, Inc |  |
| Device Model:        | BB23                    |  |
| Hardware Version:    | N/A                     |  |
| Software Version:    | N/A                     |  |

#### 1.5 Test Procedure

Testing is performed according to the ANSI/IEEE Std 149-2008.





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### 1.6 Test Specification

| Identity               | Document Title                             |  |
|------------------------|--|--|
| ANSI/IEEE Std 149-2008 | IEEE Standard Test Procedures for Antennas |  |

### 1.7 Laboratory Environment

| Temperature       | Min. =19°C → Max. = 25°C |  |  |
|-------------------|--------------------------|--|--|
| Relative humidity | Min. =40% · Max. =72%    |  |  |
| Shield effect     | 0.7-6GHz > 100dB         |  |  |
| Ground resistance | <0.5Ω                    |  |  |





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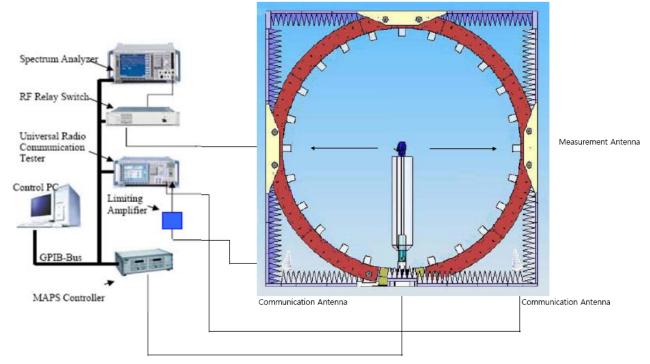
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#### **OTA Measurements System Configuration** 2

### 2.1 Test Configuration

Great-Circle-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 5m



F-1. OTA Measurement System Configuration





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#### **Test Equipment List** 3

| Type of Equipment                         | Model Number               | Manufacture       | Calibration Date | Valid Period |
|---|----------------------------|-------------------|------------------|--------------|
| Network Analyzer                          | E5071C<br>S/N MY46523591   | Keysight          | 2023/2/16        | 2024/2/15    |
| Quad-Ridge Horn Antenna<br>700 MHz-10 GHz | EMCO 3164-08<br>S/N 161915 | ETS-Lindgren L.P. | N/A              | N/A          |
| MAPS Controller                           | EMCENTER<br>S/N 160485     | ETS-Lindgren L.P. | N/A              | N/A          |





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4 **Measurement Uncertainty** 

|   | J                  |  |
|---|--------------------|--|
| Item  | 2400-2500 MHz (dB) |  |
| Gain  | 0.88               |  |
| Efficiency  | 0.88               |  |
| Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2 |                    |  |





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#### **Test Results** 5

| Free Space         |                    |                   |            |  |
|--------------------|--------------------|-------------------|------------|--|
| Frequency<br>(MHz) | Efficiency<br>(dB) | Efficiency<br>(%) | Gain (dBi) |  |
| 2350               | -4.24              | 37.67             | 3.30       |  |
| 2355               | -4.28              | 37.36             | 3.16       |  |
| 2360               | -4.17              | 38.29             | 3.33       |  |
| 2365               | -4.32              | 36.94             | 3.12       |  |
| 2370               | -4.46              | 35.81             | 2.99       |  |
| 2375               | -4.61              | 34.59             | 2.79       |  |
| 2380               | -4.63              | 34.40             | 2.80       |  |
| 2385               | -4.69              | 33.95             | 2.75       |  |
| 2390               | -4.73              | 33.63             | 2.66       |  |
| 2395               | -4.65              | 34.31             | 2.80       |  |
| 2400               | -4.70              | 33.85             | 2.69       |  |
| 2402               | -4.67              | 34.10             | 2.80       |  |
| 2405               | -4.64              | 34.35             | 2.81       |  |
| 2410               | -4.68              | 34.00             | 2.79       |  |
| 2415               | -4.71              | 33.78             | 2.76       |  |
| 2420               | -4.86              | 32.64             | 2.58       |  |
| 2425               | -4.90              | 32.36             | 2.57       |  |
| 2430               | -5.00              | 31.62             | 2.48       |  |
| 2435               | -4.96              | 31.94             | 2.56       |  |
| 2440               | -4.88              | 32.48             | 2.63       |  |
| 2441               | -4.89              | 32.44             | 2.63       |  |
| 2445               | -4.88              | 32.54             | 2.58       |  |
| 2450               | -4.90              | 32.35             | 2.50       |  |
| 2455               | -4.94              | 32.07             | 2.44       |  |
| 2460               | -5.02              | 31.51             | 2.48       |  |



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| 2465 | -5.01 | 31.52 | 0.40 |
|------|-------|-------|------|
|      | 0.01  | 31.32 | 2.49 |
| 2470 | -5.11 | 30.80 | 2.35 |
| 2475 | -5.09 | 30.98 | 2.32 |
| 2480 | -5.21 | 30.15 | 2.22 |
| 2482 | -5.20 | 30.21 | 2.13 |
| 2485 | -5.16 | 30.48 | 2.21 |
| 2490 | -5.06 | 31.22 | 2.45 |
| 2495 | -4.80 | 33.13 | 2.65 |
| 2500 | -4.62 | 34.53 | 2.98 |
| 2505 | -4.61 | 34.62 | 3.15 |
| 2510 | -4.62 | 34.53 | 3.17 |
| 2515 | -4.81 | 33.01 | 2.99 |
| 2520 | -4.89 | 32.47 | 2.82 |
| 2525 | -4.99 | 31.68 | 2.67 |
| 2530 | -5.00 | 31.59 | 2.58 |
| 2535 | -5.05 | 31.29 | 2.51 |
| 2540 | -5.07 | 31.15 | 2.39 |
| 2545 | -4.92 | 32.20 | 2.65 |
| 2550 | -4.93 | 32.15 | 2.58 |
| 2555 | -4.81 | 33.03 | 2.81 |
| 2560 | -4.86 | 32.64 | 2.71 |
| 2565 | -4.82 | 32.94 | 2.74 |
| 2570 | -4.84 | 32.81 | 2.78 |
| 2575 | -4.78 | 33.26 | 2.73 |
| 2580 | -4.64 | 34.34 | 2.93 |



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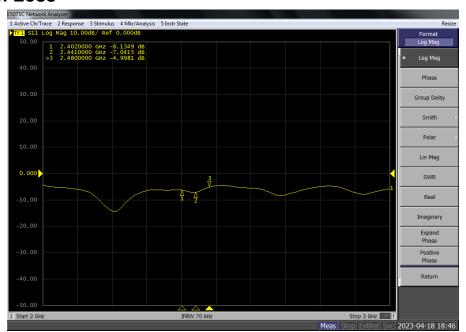
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#### **Pattern Plots**

#### 6.1 Return Loss



Free Space





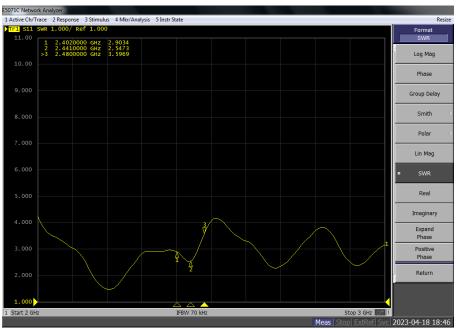
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#### **6.2 VSWR**



Free Space





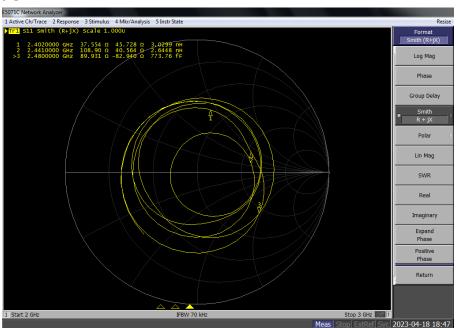
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#### 6.3 Stimulus



Free Space





Max: 5

Min: -35

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2402 MHz

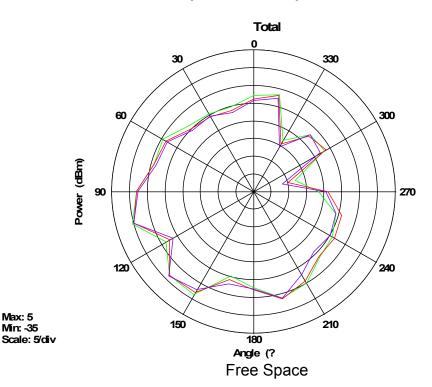
2441 MHz 2480 MH

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#### 2-D Antenna Pattern(Theta=90°) 7





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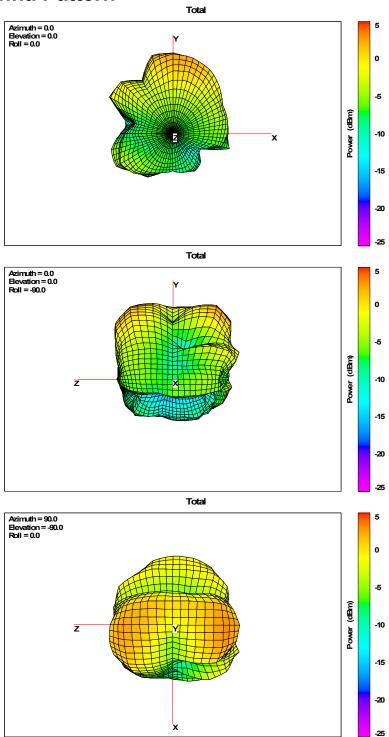
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#### 8 3-D Antenna Pattern



Free Space



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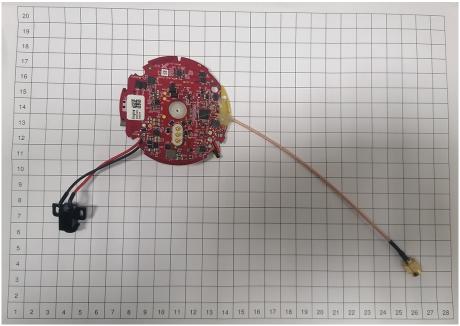
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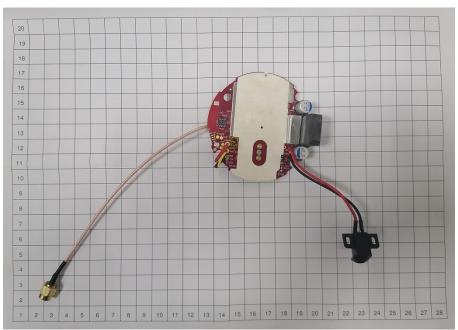
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#### The EUT and Test Configuration 9



Front Side EUT



**Back Side EUT** 



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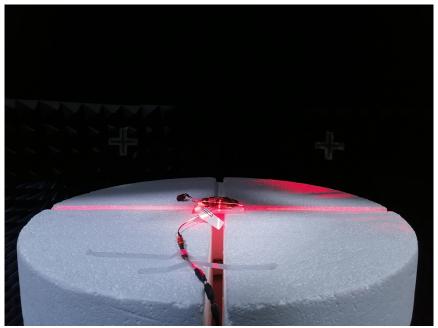


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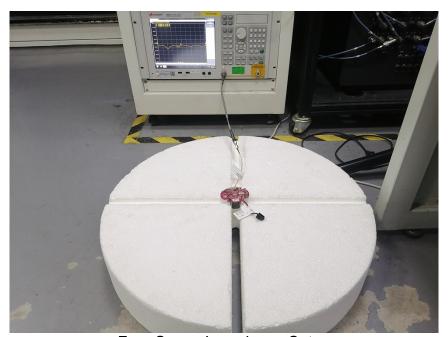
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Free Space View



Free Space Impedance Setup

---END---



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