
Antenna Test Report

Report No.: AGC14094221202PA01

PRODUCT DESIGNATION : BLE2DC
BRAND NAME : LINAK
MODEL NAME : BLE2DC
APPLICANT : LINAK A/S
DATE OF ISSUE : Dec. 15, 2022
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Dec. 15, 2022 | Valid | Initial release |

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1. PRODUCT INFORMATION

| General information | |
|------------------------------|---|
| Applicant | LINAK A/S |
| Address | Group Headquarters, Smedevænget 8, Guderup DK-6430 Nordborg, Denmark |
| Manufacturer | LINAK A/S |
| Address | Group Headquarters, Smedevænget 8, Guderup DK-6430 Nordborg, Denmark |
| Factory | SVI PUBLIC COMPANY LIMITED |
| Address | 141-142 Moo 5, Tiwanon Rd., Bangkadi, Muang, Pathumthani 12000 Thailand |
| Product Designation | BLE2DC |
| Brand Name | LINAK |
| Test Model | BLE2DC |
| Date of receipt of test item | Dec. 08, 2022 |
| Date of test | Dec. 08, 2022 to Dec. 14, 2022 |
| Report Template | AGCRT-ER-PA/V1.0 |
| Technical information | |
| Frequency Range | 2400-2500MHz |
| Test Frequencies | 2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz |
| Antenna Type | Integral Antenna |
| Dimensions | 40mm |
| Impedance | 50 Ω |
| Maximum test values | Gain: 1.223dBi; Efficiency: 33.362%; VSWR: 1.264:1 |

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd.
The test results of this report relate only to the tested sample identified in this report.

Prepared By



Alan Duan
(Project Engineer)

Dec. 15, 2022

Reviewed By



Calvin Liu
(Reviewer)

Dec. 15, 2022

Approved By



Max Zhang
(Authorized Officer)

Dec. 15, 2022

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2. TEST FACILITY

| | |
|------------------|--|
| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |

3. TEST EQUIPMENT LIST

| Equipment | Manufacturer | Model | Cal. Date | Cal. Due |
|----------------------------|--------------|---------------------|---------------|---------------|
| ANTENNA MEASUREMENT SYSTEM | ETS-Lindgren | AMS-8600 | Nov. 25, 2022 | Nov. 24, 2023 |
| Network Analyzer | R&S | 101443 | Oct. 14, 2021 | Oct. 15, 2022 |
| Network Analyzer | R&S | 101443 | Oct. 15, 2022 | Oct. 14, 2023 |
| Test software | ETS-Lindgren | EMQuest (Ver V1.12) | N/A | N/A |

4. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of VSWR, $U_c = \pm 1.5\text{dB}$
- Uncertainty of Gain, $U_c = \pm 0.8\text{dB}$

5. TEST SUMMARY LIST

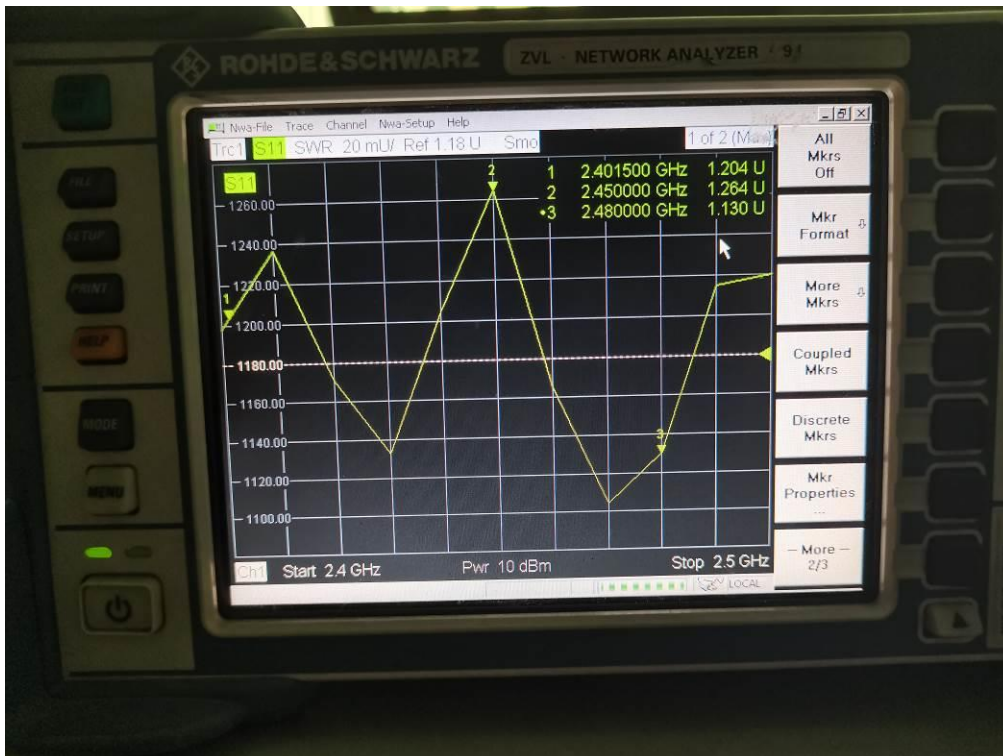
| NO. | Test item | Remark |
|-----|---------------------|--------|
| 1 | VSWR | -- |
| 2 | Gain and efficiency | -- |
| 3 | Radiation pattern | -- |

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7. TEST RESULTS

7.1. VSWR

| Frequency(MHz) | VSWR |
|----------------|---------|
| 2402 | 1.204:1 |
| 2450 | 1.264:1 |
| 2480 | 1.130:1 |



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7.2. GAIN AND EFFICIENCY

| Frequency(MHz) | Efficiency(dB) | Efficiency(%) | Gain(dBi) |
|----------------|----------------|---------------|-----------|
| 2400 | -4.767 | 33.362 | 1.223 |
| 2410 | -4.865 | 32.617 | 0.604 |
| 2420 | -5.034 | 31.370 | 0.261 |
| 2430 | -5.249 | 29.859 | 0.060 |
| 2440 | -5.867 | 25.899 | -0.613 |
| 2450 | -6.265 | 23.630 | -0.544 |
| 2460 | -6.272 | 23.592 | -0.151 |
| 2470 | -6.377 | 23.025 | -0.392 |
| 2480 | -6.586 | 21.945 | -0.658 |
| 2490 | -6.864 | 20.584 | -0.763 |
| 2500 | -6.928 | 20.284 | -0.414 |

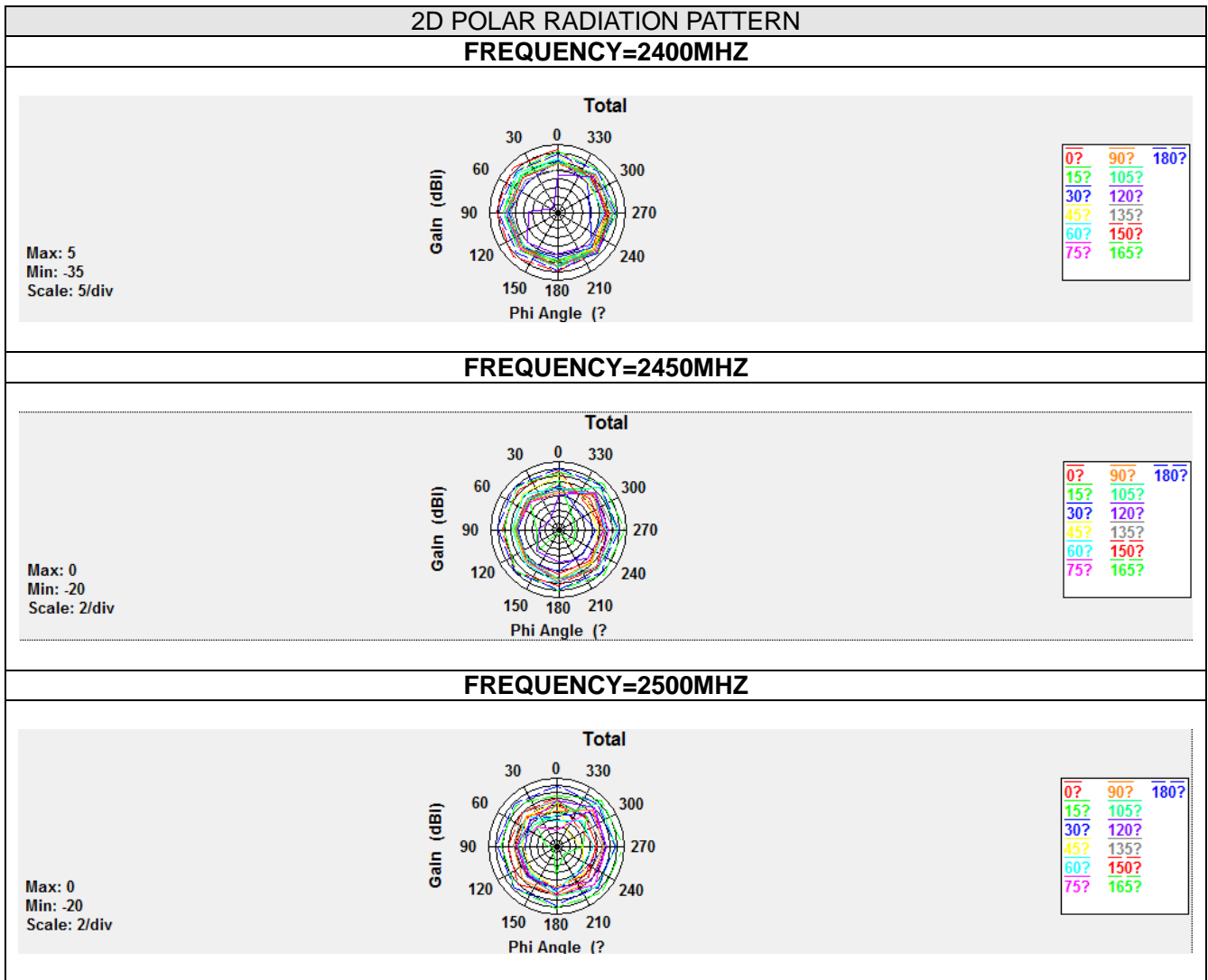
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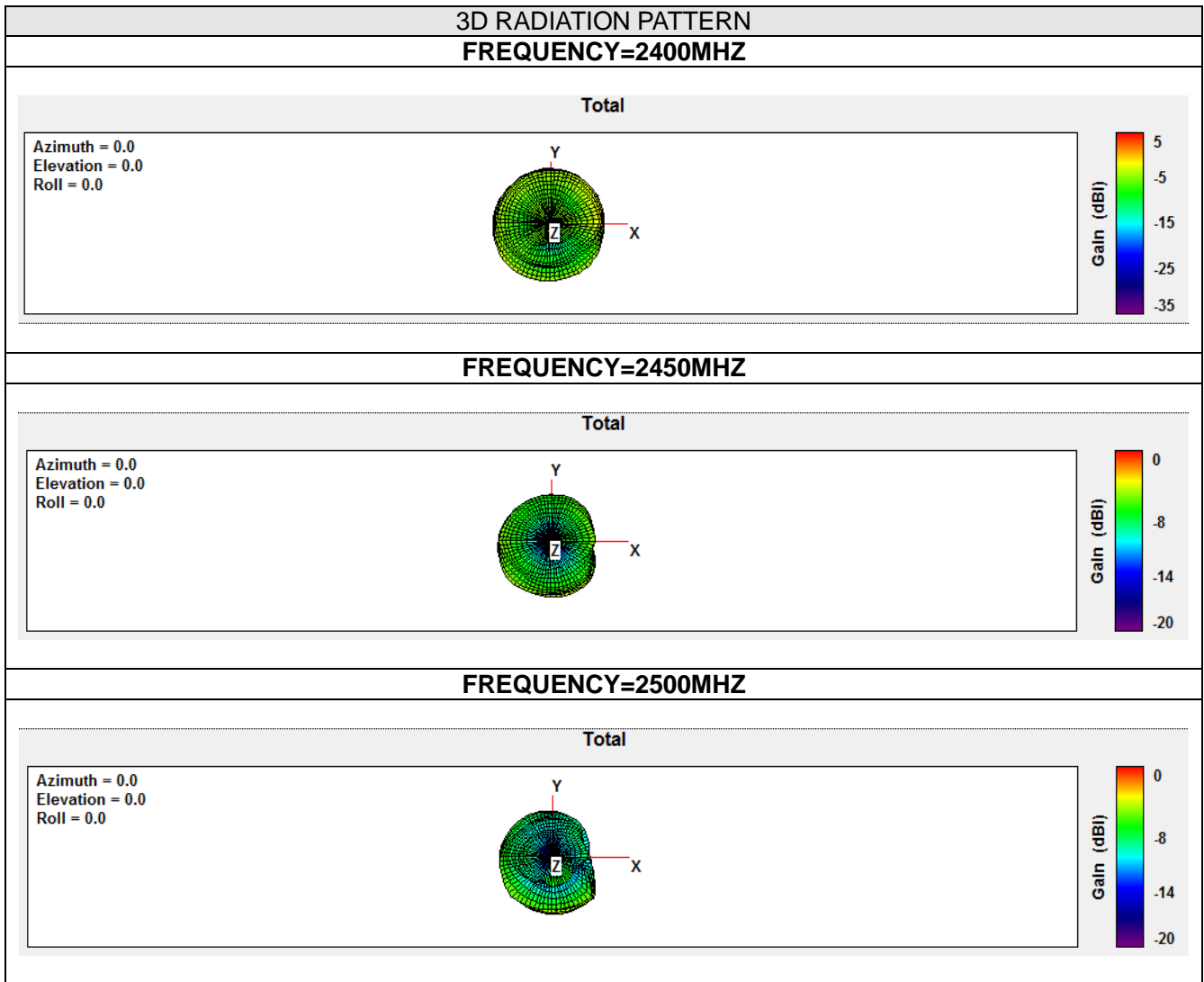
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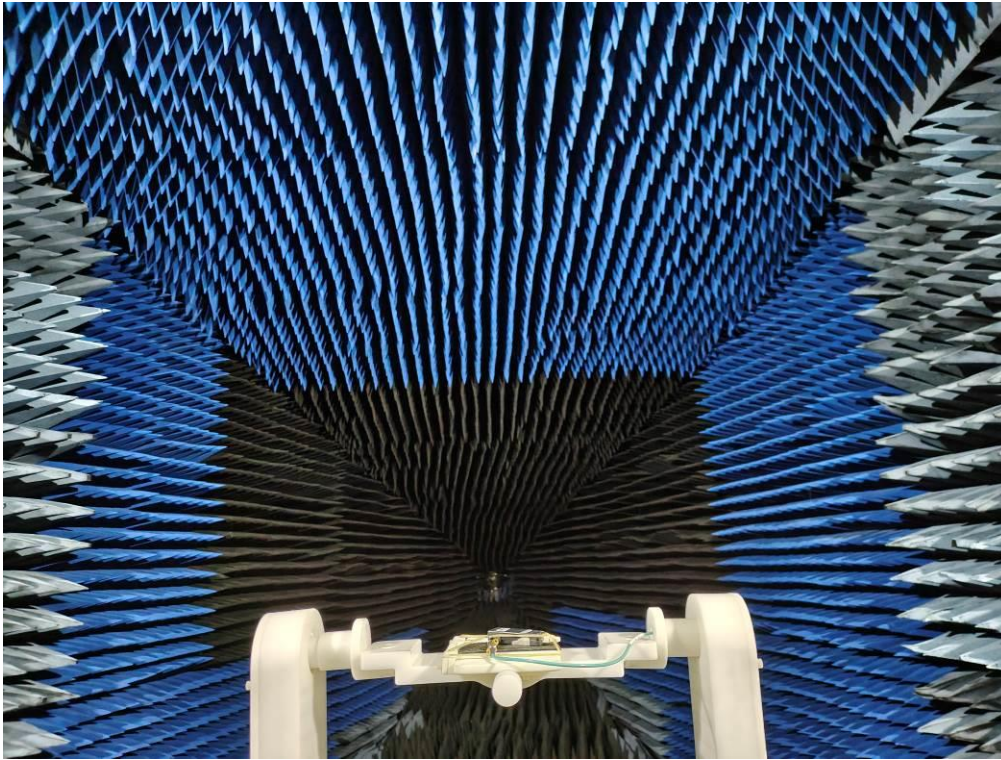
7.3. RADIATION PATTERN



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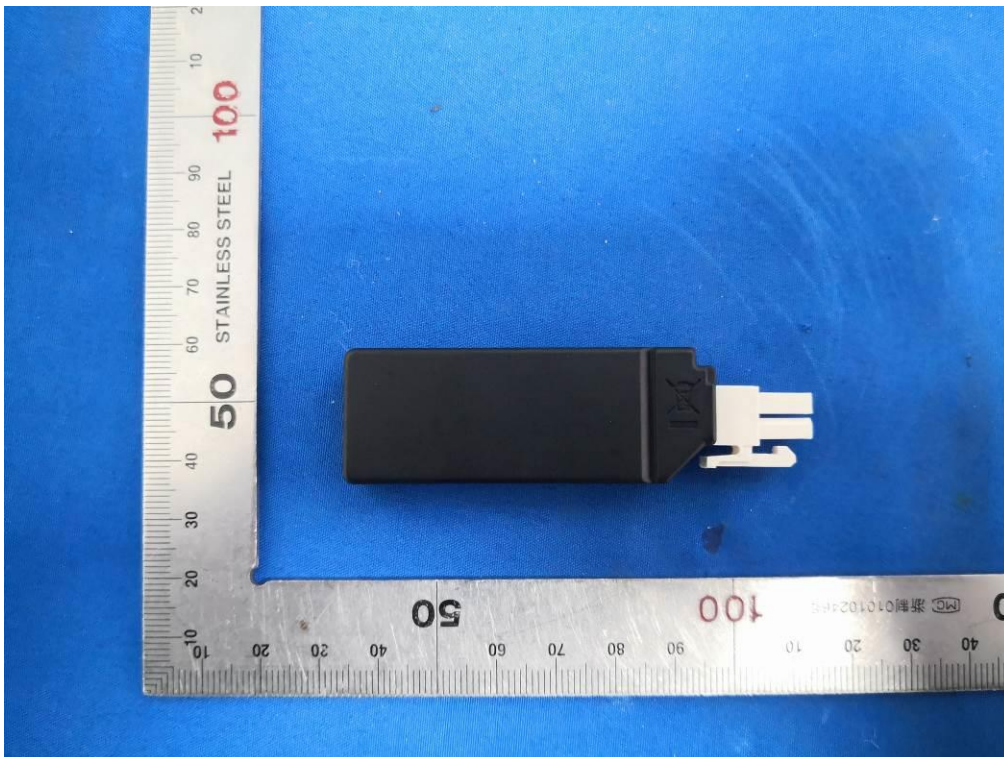
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

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APPENDIX B: PHOTOGRAPHS OF EUT
TOP VIEW OF EUT

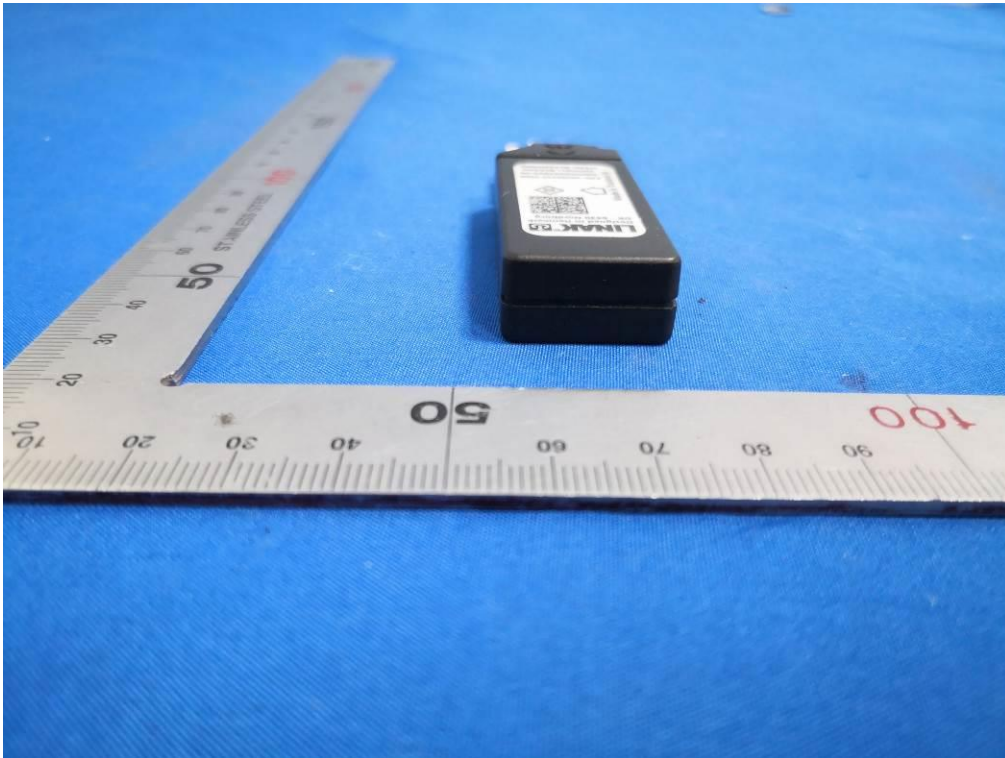


BOTTOM VIEW OF EUT

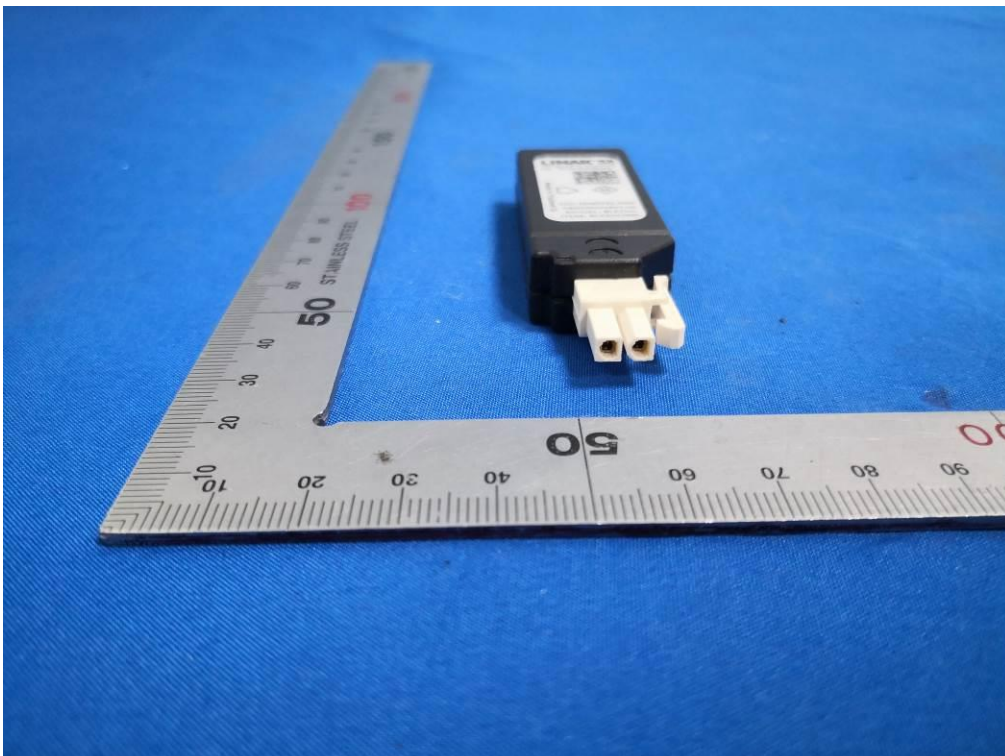


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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT

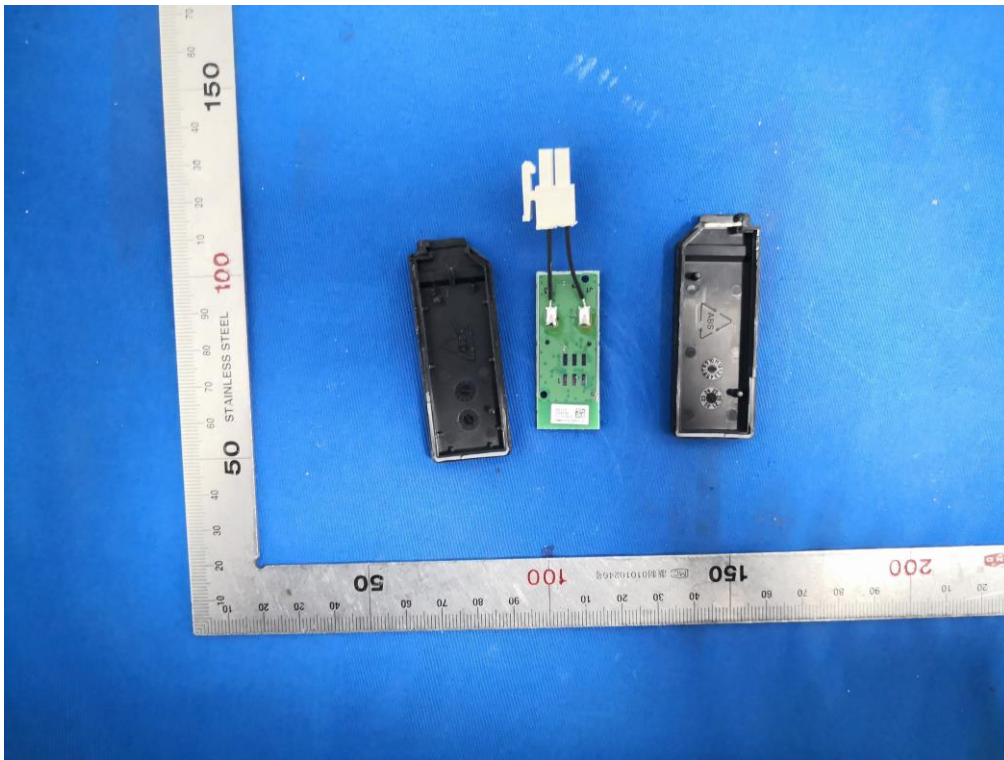


RIGHT VIEW OF EUT

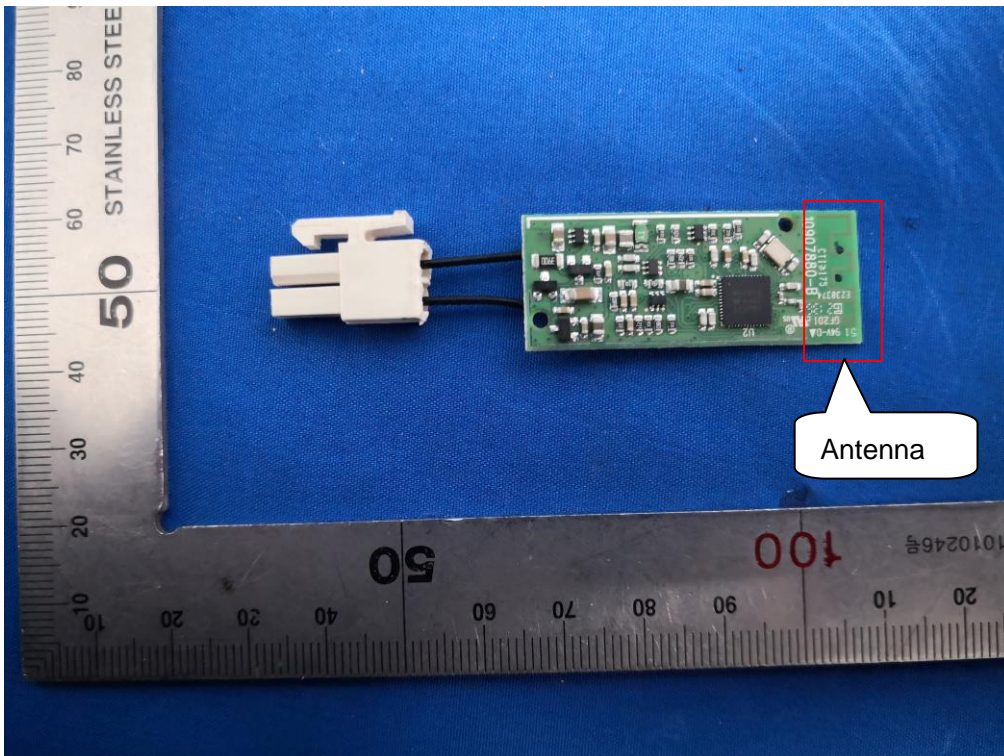


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OPEN VIEW OF EUT (FIGURE 1)

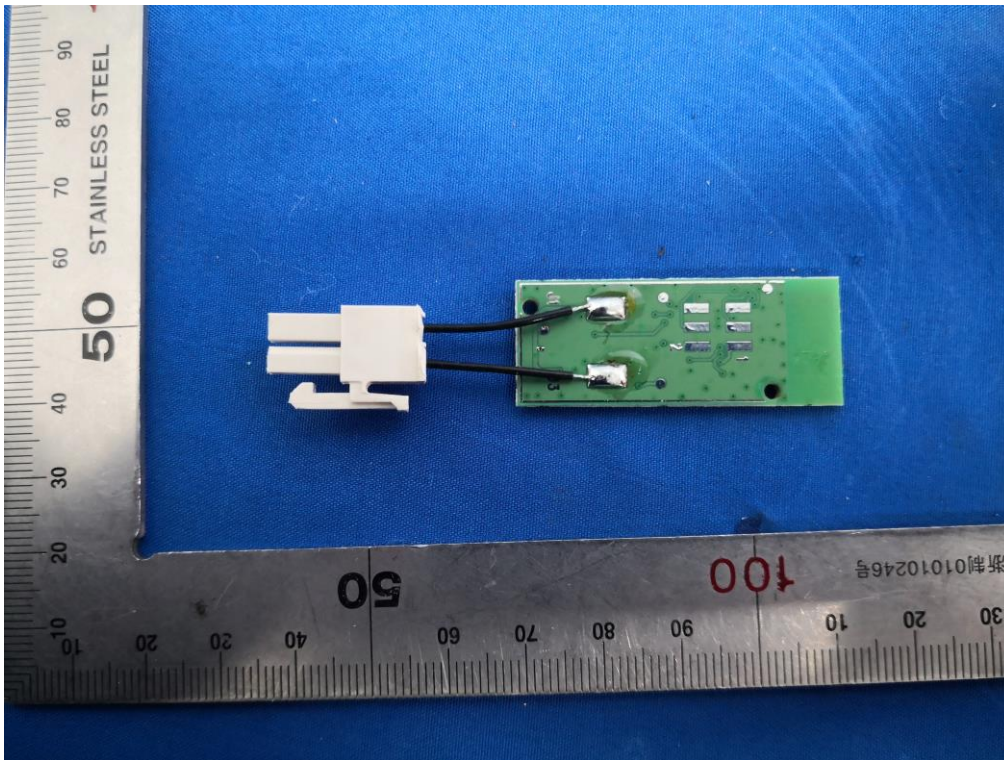


ANTENNA CLOSE-UP PHOTO-1



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INTERNAL VIEW OF EUT (FIGURE 1)



-----END OF REPORT-----

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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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