



RF EXPOSURE REPORT

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|-----------------------------|---|--|
| Applicant | : | HANSHOW TECHNOLOGY CO., LTD. |
| Address | : | The 1st Floor Podium and Floor 4 of Building 1, Floor 7 of Building 5, Jiaxing Photovoltaic Technology Innovation Park, No.1288, Kanghe Road, Xiuzhou District, Jiaxing City, Zhejiang Prov. |
| Equipment under Test | : | electronic shelf label |
| Model No. | : | Lumina Slim-3150D1-N, Lumina Slim-3150D2-N |
| Trade Mark | : | Hanshow |
| FCC ID | : | 2AYMH-LUMINAS-3150A |
| Manufacturer | : | HANSHOW TECHNOLOGY CO., LTD. |
| Address | : | The 1st Floor Podium and Floor 4 of Building 1, Floor 7 of Building 5, Jiaxing Photovoltaic Technology Innovation Park, No.1288, Kanghe Road, Xiuzhou District, Jiaxing City, Zhejiang Prov. |
| Report No. | : | DDT-B25061317-5E04 |
| Issue Date | : | Jul. 21, 2025 |
| Issued By | : | Tianjin Dongdian Testing Service Co., Ltd. |
| Address | : | Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China. Tel: +86-22-58038033, E-mail: ddt@dgddt.com, http://www.ddttest.com |



REPORT

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TEST REPORT DECLARE

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Standard Used: Code of Federal Regulations 47 Subchapter A, Part 1, Subpart 1 §1.1310

We Declare:

The equipment described above is assessed by Tianjin Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

| | | | |
|-------------------------|--------------------|----------------------|-------------------------------|
| Report No: | DDT-B25061317-5E04 | | |
| Date of Receipt: | Jul. 03, 2025 | Date of Test: | Jul. 03, 2025 ~ Jul. 21, 2025 |

Prepared By:

Sunny Zhang

Sunny Zhang/Engineer

Approved By:

Aaron Zhang

Aaron Zhang/Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

| Rev. | Revisions | Issue Date | Revised By |
|------|---------------|---------------|------------|
| --- | Initial issue | Jul. 21, 2025 | |
| | | | |

1. General information

1.1. Description of Equipment

| | | |
|--------------------------|---|--|
| EUT* Name | : | electronic shelf label |
| Model Number | : | Lumina Slim-3150D1-N, Lumina Slim-3150D2-N |
| EUT function description | : | Please reference user manual of this device |
| Power Supply | : | DC 5V by USB |
| Radio Specification | : | 2.4G SRD |
| Operation Frequency | : | 2402 MHz - 2480 MHz |
| Modulation | : | GFSK |
| Data Rate | : | 500k bps |
| Antenna Type | : | PCB antenna 1, maximum PK gain: 2.33 dBi PCB antenna 2, maximum PK gain: 2.33 dBi PCB antenna 3, maximum PK gain: 2.33 dBi |
| Exposure category | : | General population/uncontrolled environment |
| Device Type | : | Mobile Device |

1.2. Assess laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, <http://www.ddttest.com>, Email: ddt@dqddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2. RF Exposure Evaluation

2.1. Requirement

According 1.1307(b)(3)(i)

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

2.2. Estimation result

According ANSI C63.10-2020, Convert the electric field strength to an equivalent EIRP using the following relationship:

$$\text{EIRP} = E + 20\log(d) - 104.8$$

where

E is the electric field strength in $\text{dB}\mu\text{V}/\text{m}$

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

2.4G SRD

| Mode | Frequency (MHz) | Maximum PK Field Strength ($\text{dB}\mu\text{V}/\text{m}$) | EIRP (dBm) |
|-----------|-----------------|---|------------|
| GFSK Ant1 | 2402 | 89.74 | -5.49 |
| GFSK Ant1 | 2441 | 89.29 | -5.94 |
| GFSK Ant1 | 2480 | 87.82 | -7.41 |
| GFSK Ant2 | 2402 | 90.83 | -4.40 |
| GFSK Ant2 | 2441 | 91.01 | -4.22 |
| GFSK Ant2 | 2480 | 90.63 | -4.60 |
| GFSK Ant3 | 2402 | 92.40 | -2.83 |
| GFSK Ant3 | 2441 | 91.15 | -4.08 |
| GFSK Ant3 | 2480 | 91.81 | -3.42 |

Max turn-up EIRP is $-2.5\text{dBm} = 0.56\text{mW} < 1\text{mW}$

Note: The 2.4G SRD not support MIMO.

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

END OF REPORT