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RF Exposure Evaluation Report

Product : RingConn Gen 2 Air Smart Ring

Trade mark : RingConn

Model/Type reference : See section 3.2

Serial Number : N/A

Report Number : EED32R80006502 FCC ID : 2A854JZRCA-02 Date of Issue : Feb. 21, 2025

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

KDB 447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

Shenzhen Ninenovo Technology Limited Room 1403, Building 2, Chongwen Park, Nanshan Zhiyuan, No.3370, Liuxian Avenue, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China

Prepared by:

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Check No.: 6613020125









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1 Version

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| |

| 10.7 | 16.4 | 1.60 | 16.4 | ~ / |
|-------------|---------------|------|-------------|------|
| Version No. | Date | | Description | |
| 00 | Feb. 21, 2025 | | Original | |
| | | (3) | | |
| (| | (65) | (6,2) | (0,) |













































































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3 General Information

3.1 Client Information

| Applicant: | Shenzhen Ninenovo Technology Limited | | |
|--------------------------|---|--|--|
| Address of Applicant: | Room 1403, Building 2, Chongwen Park, Nanshan Zhiyuan, No.3370, Liuxian Avenue, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China | | |
| Manufacturer: | Shenzhen Ninenovo Technology Limited | | |
| Address of Manufacturer: | Room 1403, Building 2, Chongwen Park, Nanshan Zhiyuan, No.3370, Liuxian Avenue, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China | | |
| Factory: | Shenzhen Ninenovo Technology Limited | | |
| Address of Factory: | Room 1403, Building 2, Chongwen Park, Nanshan Zhiyuan, No.3370, Liuxian Avenue, Fuguang Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China | | |

3.2 General Description of EUT

| Product Name: | (P) | RingConn Gen 2 Air Smart Ring | | |
|--|-----|--|--|--|
| Model No.: | | RCA-02, RCA-02-6, RCA-02-7, RCA-02-8, RCA-02-9, RCA-02-10, | | |
| RCA-02-11, RCA-02-12, RCA-02-13, RCA-02-14 | | | | |
| Test Model No.: | | RCA-02-08 | | |
| Trade mark: | | RingConn | | |

3.3 Product Specification subjective to this standard

| Frequency Range: | 2402MHz~2480MHz | (*) | / 2 |
|-----------------------|--------------------------------|-------|------------|
| Modulation Type: | GFSK | (277) | (20) |
| Test Power Grade: | Default | | |
| Test Software of EUT: | sscom5.13.1.exe | | |
| Antenna Type: | Ceramic Antenna | | |
| Antenna Gain: | 2.5dBi | | |
| Power Supply: | Battery: DC 3.85V | 7 | (0.) |
| Sample Received Date: | Jan. 06, 2025 | | |
| Sample tested Date: | Jan. 06, 2025 to Feb. 13, 2025 | | |

Remark:

Model No.: RCA-02, RCA-02-6, RCA-02-7, RCA-02-8, RCA-02-9, RCA-02-10, RCA-02-11, RCA-02-12, RCA-02-13, RCA-02-14

Only the model RCA-02-08 was tested. The PCB of different models are consistent, only the shell size is different. The differences between different models are shown in the table below:

| Model | inner diameter | Smart Ring colour | | | |
|----------|----------------|---------------------------|--|--|--|
| RCA-02 | 19.0×6.8mm | Dune Gold, Galaxy Silver. | | | |
| RCA-02-6 | 16.5×6.8mm | Dune Gold, Galaxy Silver. | | | |
| RCA-02-7 | 17.4×6.8mm | Dune Gold, Galaxy Silver. | | | |
| RCA-02-8 | 18.2×6.8mm | Dune Gold, Galaxy Silver. | | | |

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com









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| RCA-02-9 | 19.0×6.8mm | Dune Gold, Galaxy Silver. |
|-----------|------------|---------------------------|
| RCA-02-10 | 19.9×6.8mm | Dune Gold, Galaxy Silver. |
| RCA-02-11 | 20.7×6.8mm | Dune Gold, Galaxy Silver. |
| RCA-02-12 | 21.5×6.8mm | Dune Gold, Galaxy Silver. |
| RCA-02-13 | 22.3×6.8mm | Dune Gold, Galaxy Silver. |
| RCA-02-14 | 23.1×6.8mm | Dune Gold, Galaxy Silver. |
| | | |



















































































3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None

3.7 Other Information Requested by the Customer





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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

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

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

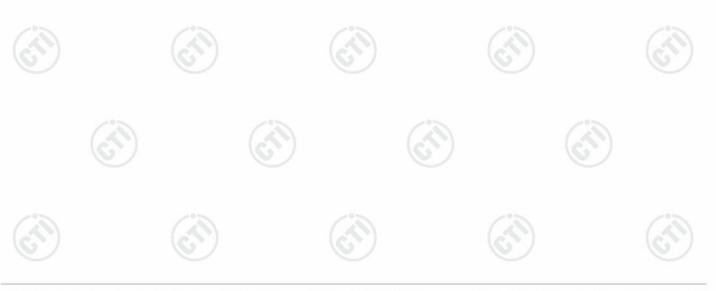
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.





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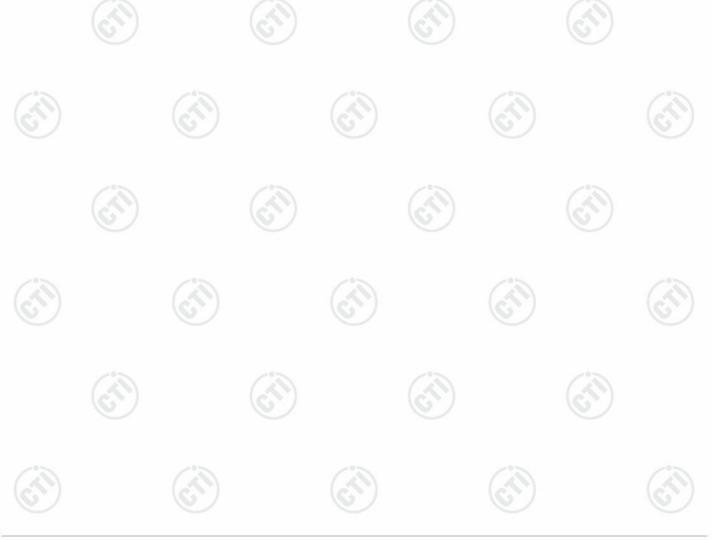
4.1.3 EUT RF Exposure Evaluation

For Stand alone:

| 100 | Frequency (MHz) | Estimation distance (cm) | Max. Conducted Output power (dBm) | Antenna Gain (dBi) | ERP (dBm) | ERP (mW) | Limit (mW) | MPE ratio | Result |
|-----|--------------------|--------------------------|-----------------------------------|--------------------------|--------------|-------------|---------------|--------------|--------|
| | 2402 | 0.5 | -3.67 | 2.50 | -3.32 | 0.4656 | 2.7877 | 0.1670 | Pass |

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) 95.23;
- $4ERP(mW) = 10^{(ERP (dBm)/10)};$
- ⑤The estimation distance is 0.5cm;
- ©The test data please refer to the report of EED32R80006501 and only the worst case data was recorded in the report.





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Statement

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full;

