

RF Exposure Evaluation Report

Applicant: Remote Tech LLC

Address of Applicant: 310 ALDER RD, DOVER DE 19904 USA

Product Name: Smart Key

Model No.: RT-HD094B

Brand Name: /

FCC ID: 2AOKM-HD09B

Test Standards: FCC CFR Title 47 Part 2 (§2.1093)
KDB 447498 D01 General RF Exposure Guidance v06

Date of Sample Receipt: Aug. 19, 2026

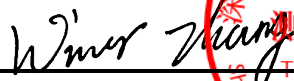
Date of Test: Aug. 20 to 27, 2026

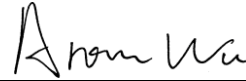
Date of Report Issue:
Aug. 28, 2026

Prepared By:

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Report Revision History

Rev.	Issue Date	Description
V00	Aug. 28, 2026	Initial Release



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1 Laboratory Introduction

1.1 Laboratory Location

Company Name:	Shenzhen Acote Technology Co., Ltd.
Address of Laboratory:	Room 719, Excellence Times Building, No. 27, Xinqiao 3rd Road, Xinqiao Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong Province, China.
	101, F1, building 15, zhongda 365, Xincheng Road No.9, Songshanhu, Dongguan, Guangdong, China.
Website:	www.acotelabs.com
Email:	Service@acotelabs.com
Tel.:	+86-0755-2788 9963

1.2 Laboratory Facility

Our company's laboratory facilities have received accreditation, certification, or authorization from the following organizations:

- **FCC - Designation No.: CN1450**
Shenzhen Acote Technology Co., Ltd. has been certified by the FCC (Federal Communications Commission) as a testing laboratory. Test Firm Registration Number: **832670**.
- **ISED - CAB Identifier: CN0202**
Shenzhen Acote Technology Co., Ltd. is registered with ISED (Innovation, Science and Economic Development Canada) as a Conformity Assessment Body (CAB) for radio equipment testing.
- **A2LA - Accreditation Number: 7697.01**
Shenzhen Acote Technology Co., Ltd. has been accredited by A2LA (American Association for Laboratory Accreditation) in compliance with the internationally recognized standard ISO/IEC 17025:2017, "General Requirements for the Competence of Testing and Calibration Laboratories."

1.3 Announcement

Shenzhen Acote Technology Co., Ltd. tested the equipment in accordance with the requirements set forth in the test standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by Shenzhen Acote Technology Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Shenzhen Acote Technology Co., Ltd. will constitute fraud and shall nullify the document.

1.4 Disclaimer

For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

2 Equipment Under Test Information

2.1 Application Information

Applicant:	Remote Tech LLC
Address of Applicant:	310 ALDER RD, DOVER DE 19904 USA
Manufacturer:	Remote Tech LLC
Address of Manufacturer:	310 ALDER RD, DOVER DE 19904 USA

2.2 Product Information

Product Name:	Smart Key
Model No.:	RT-HD094B
Models of Product Family:	/
Description of Model Differentiation:	/

2.3 EUT Technical Parameters

Operation Frequency:	433.92MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-12.88 dBi (declared by applicant)
Power Supply:	DC 3V (CR2032 Battery)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3 Test Information

3.1 Test Methodology

The tests documented in this report were performed in accordance with:

- KDB 447498 D01 General RF Exposure Guidance v06

3.2 Additions to, Deviations, or Exclusions from the Method

None

3.3 Test Mode

TM 1:	Keep the EUT in continuously transmitting mode
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3.4 Worst-case

This RF exposure assessment is based on the maximum EIRP derived from worst-case engineering measurements across all modulation types at various data rates.

4 Technical requirements specification

4.1 Limits

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

4.2 Result

According to the calculation formula of power:

$$\text{EIRP} = P \cdot G = (E \cdot d)^2 / 30, \text{ So } P = (E \cdot d)^2 / (30 \cdot G).$$

Where:

P = transmitter output power in watts,

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator (unitless)

E = electric field strength in V/m

d = measurement distance in meters (m)

So, $P = (E \cdot d)^2 / (30 \cdot G)$

Freq. (MHz)	Max. Field Strength@3m (dBuV/m)	Max. Field Strength@3m (V/m)	ANT Gain (dBi)	ANT Gain (numeric)	Distance (m)	Output Power (mW)
433.92	77.81	0.007771	-12.88	0.051523	3	0.351658

Thus, Worse case below:

Freq. (MHz)	Max. Output Power (mW)	Min Test Distance (mm)	Result	Limit of 10-g SAR Test Exclusion Thresholds
433.92	0.351658	5	0.046329	7.5

4.3 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

----- End of Report -----