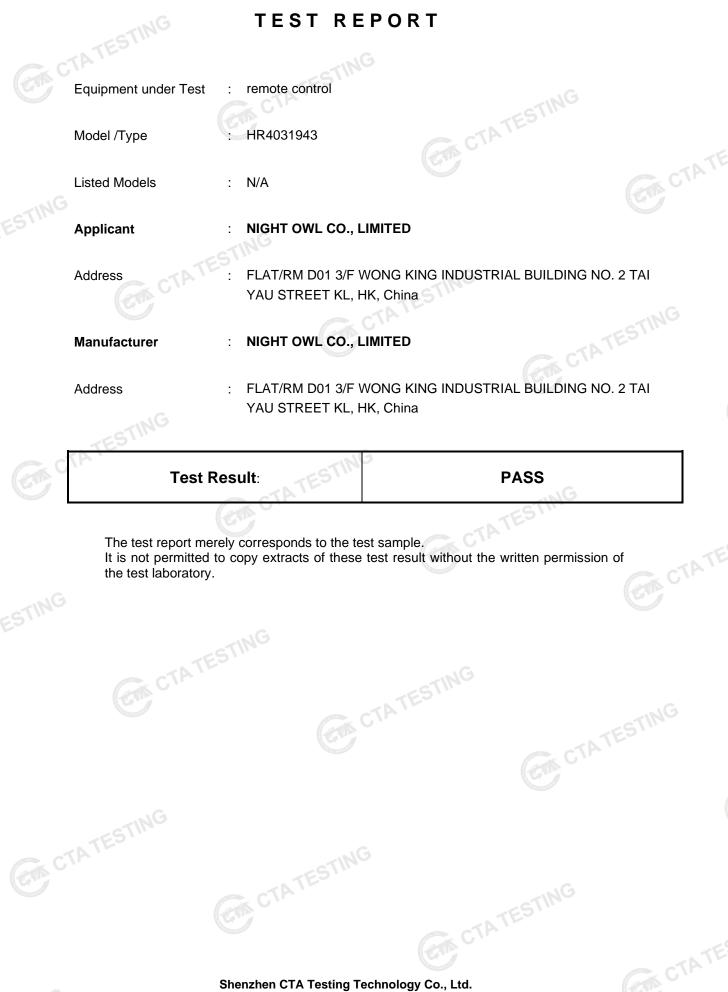


## Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TING RF	Exposure evaluation
Report Reference No	CTA25042700902
FCC ID :	2BPBL-RCHR4031943
Compiled by	TATES TOPM (MD)
(position+printed name+signature):	File administrators Zoey Cao
Supervised by	Styles and the second s
(position+printed name+signature):	Project Engineer Ace Chai
Approved by	approved
(position+printed name+signature):	RF Manager Eric Wang
Date of issue	May 08, 2025
Testing Laboratory Name:	Shenzhen CTA Testing Technology Co., Ltd.
Address	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China
Applicant's name:	NIGHT OWL CO., LIMITED
Address:	FLAT/RM D01 3/F WONG KING INDUSTRIAL BUILDING NO. 2 TAI YAU STREET KL, HK, China
	47CFR §1.1310
Standard	47CFR §2.1093
TATES	KDB447498 D01 General RF Exposure Guidance v06
CTA Testing Technology Co., Ltd. is a CTA Testing Technology Co., Ltd. take	<b>Co., Ltd. All rights reserved.</b> whole or in part for non-commercial purpses as long as the Shenzhen cknowledged as copyright owner and source of the material. Shenzhen as no responsibility for and will not assume liability for damages on of the reproduced material due to its placement and context.
Test item description:	remote control
Manufacturer	NIGHT OWL CO., LIMITED
Trade Mark	N/A
Model/Type reference	HR4031943
Rating	DC 3.0V From battery
Result	PASS
6.7	PASS CTATESTING

Shenzhen CTA Testing Technology Co., Ltd.



#### Report No.: CTA25042700902

## Contents

	Contents	
1	TEST STANDARDS	4
2	SUMMARY	5
	2.1 General Remarks	5
	2.2 Product Description	5
	2.3 Special Accessories	
	2.4 Modifications	
3	TEST ENVIRONMENT	
	3.1 Address of the test laboratory	
	3.2 Test Facility	
	3.3 Statement of the measurement uncertainty	
4	Test limit	
	4.1 Requirement	
-ESTIN	4.2 Conducted Power Results	
TATES	4.3 Manufacturing tolerance	
GVP	4.4 Evaluation Result	
× 1	4.5 Simultaneous Transmission for SAR Exclusion	
5		
C C	-ES	
	GA CTATLE GA CTA	TESTING

Shenzhen CTA Testing Technology Co., Ltd.

CTATESTING

#### 1 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures. FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits. FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

Shenzhen CTA Testing Technology Co., Ltd.

#### 2.1 **General Remarks**

Date of receipt of test sample	: <	Apr. 27, 2025		
	5			
Testing commenced on	:	Apr. 27, 2025		
			C'L	
Testing concluded on	:	May 08, 2025	(CTA)	

## 2.2 Product Description

Testing concluded on	: May 08, 2025
2.2 Product Descript	tion
Product Name:	remote control
Model/Type reference:	HR4031943
Power supply:	DC 3.0V From battery
Hardware version:	V1.0
Software version:	V1.0 CV
Testing sample ID:	CTA250427009-1# (Engineer sample) CTA250427009-2# (Normal sample)
Bluetooth BLE	
Supported type:	Bluetooth low Energy
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2 MHz
Antenna type:	PCB antenna
Antenna gain:	0 dBi

#### 2.3 **Special Accessories**

The following is the EUT test of the auxiliary equipment provided by the laboratory:

	Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by	C
TESTING	/	/	/	/	/	/	
CTATE	24 Modi						
	2.4 Modi	fications					

#### Modifications 2.4

No modifications were implemented to meet testing criteria.

#### Shenzhen CTA Testing Technology Co., Ltd.

## 3 TEST ENVIRONMENT

## 3.1 Address of the test laboratory

#### Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

### 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: **FCC-Registration No.: 517856 Designation Number: CN1318** 

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

#### A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

#### 3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

	Test	Range	Measurement Uncertainty	Notes	
ſ	Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
Ī	Radiated Emission	30~1000MHz	4.06 dB	(1)	
Ī	Radiated Emission	1~18GHz 5	5.14 dB	(1)	
Ī	Radiated Emission	18-40GHz	5.38 dB	(1)	NG
Ī	Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	STIN
Ī	Output Peak power	30MHz~18GHz	0.55 dB	(1)	1E-
Ī	Power spectral density	/	0.57 dB	(1)	
	Spectrum bandwidth	/	1.1%	(1)	
Ī	Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
	Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
P	Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	
L	GA CTA	TEC	CTATEST	NG	

#### Shenzhen CTA Testing Technology Co., Ltd.

#### 4.1 Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 " [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f}$  (GHz)]  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR, where:

- f (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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$ mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

## Conducted Power Results

Туре	Channel	Output power (dBm)
CINCIN	00	-3.74
GFSK 1Mbps	19 19	-4.05
	39	-4.09

#### 4.3 Manufacturing tolerance

	GFSK (Peak)						
	Channel	Channel 00	Channel 19	Channel 39			
	Target (dBm)	-4.0	-4.0	-4.0			
c <sup>1</sup>	Tolerance ±(dB)	1.0	ົງ 1.0	1.0			
		CTATES !!		ATESTING			

Shenzhen CTA Testing Technology Co., Ltd.

## 4.4 Evaluation Result

TATE						
Evaluation Res	sults	1	ES'"			
Band/Mode	f (GHz)	Antenna Distance (mm)	(includin	ut power g tune-up ance)	SAR Test Exclusion Threshold	SAR Test Exclusion
		(1111)	dBm	mW	Theshold	
BLE	2.450	5	-3	0.5012	0.1569<3.0	Yes

# CTATESTING4.5 Simultaneous Transmission for SAR Exclusion

#### 5 Conclusion

GA CTATESTING The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01v06

Shenzhen CTA Testing Technology Co., Ltd.