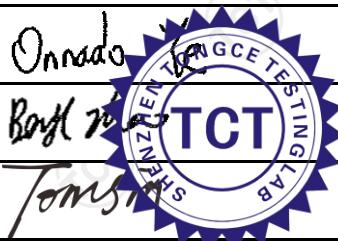


TEST REPORT

FCC ID.	2BN8F-VDT50-1
Test Report No.	TCT250613E046
Date of issue	Jun. 23, 2025
Testing laboratory	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name	NUMLAKE TECH LIMITED
Address	UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOK STREET TSIM SHA TSUI HONG KONG, China
Manufacturer's name	NUMLAKE TECH LIMITED
Address	UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOK STREET TSIM SHA TSUI HONG KONG, China
Standard(s)	FCC CFR Title 47 Part 1.1307
Product Name	Doorbell Camera
Trade Mark	N/A
Model/Type reference	T50, T20, P50, M50, P10, P20, P30, P60, P70, P90, V20, M20
Rating(s)	Rechargeable Li-ion Battery DC 3.7V
Date of receipt of test item	Jun. 13, 2025
Date (s) of performance of test	Jun. 13, 2025 ~ Jun. 23, 2025
Tested by (+signature)	Onnado YE
Check by (+signature)	Beryl ZHAO
Approved by (+signature) :	Tomsin



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1. General Product Information

1.1. EUT description

Product Name	Doorbell Camera
Model/Type reference.....	T50
Sample Number.....	TCT250613E014-0101
Operation Frequency	For BLE: 2402MHz~2480MHz For WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) For SRD: 433.92MHz
Modulation Type	For BLE: GFSK For WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing (OFDM) For SRD: FSK
Antenna Type	For BLE/WIFI: Internal Antenna For SRD: Spring Antenna
Antenna Gain	For BLE/WIFI: 1.65dBi For SRD: -1.74dBi
Rating(s)	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	T50	<input checked="" type="checkbox"/>
Other models	T20, P50, M50, P10, P20, P30, P60, P70, P90, V20, M20	<input type="checkbox"/>

Note: T50 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names, appearance and color. So the test data of T50 can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 3.7V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Transmitting Mode:	Keep the EUT in continuous transmitting by select channel

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098
SHENZHEN TONGCE TESTING LAB
Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01
SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict,

Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4. Limit

According to §1.1310, the limit is as follow,

TABLE 1 TO § 1.1310(e)(1)–LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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(i) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE

0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6

(ii) LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

*f = frequency in MHz. * = Plane-wave equivalent power density.*



5. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) **For BLE:** The maximum output power for antenna is 3.97dBm (2.49mW) at 2480MHz, 1.65dBi antenna gain (with 1.46 numeric antenna gain.)

For WIFI: The maximum output power for antenna is 17.30dBm (53.70mW) at 2462MHz, 1.65dBi antenna gain (with 1.46 numeric antenna gain.)

For SRD: The maximum output power for antenna is -30.87dBm (0.001mW) at 433.92MHz, -1.74dBi antenna gain (with 0.67 numeric antenna gain.)

Note: $E[\text{dB}\mu\text{V}/\text{m}] = 69.06$

computational formula

$$\text{EIRP}[\text{dBm}] = E[\text{dB}\mu\text{V}/\text{m}] + 20 \log (d[\text{m}]) - 104.77;$$

Conducted Power = EIRP-4.7;

Where E is the electric field strength in V/m; d is the measurement distance in meters (m)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation

$$\text{Given } E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$$

Where $E = \text{Field Strength in Volts / meter}$

$P = \text{Power in Watts}$

$G = \text{Numeric antenna gain}$

$d = \text{Distance in meters}$

$S = \text{Power Density in milliwatts / square centimeter}$

Substituting the MPE safe distance using $d=20\text{cm}$ into above equation.

Yields: $S=0.000199 \times P \times G$

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
BLE	3.97	2.49	1.46	0.0007234	1.00	PASS
WIFI	17.30	53.70	1.46	0.0156020	1.00	
SRD	-30.87	0.001	0.67	0.0000001	0.29	

Note: BLE/SRD Can be transmitted simultaneously, MPE calculate is as follow,
 $MPE=0.0007234/1.0+0.0000001/0.29=0.0007237 < 1$.

WIFI/SRD Can be transmitted simultaneously, MPE calculate is as follow,
 $MPE=0.0156020/1.0+0.0000001/0.29=0.0156023 < 1$.

*******END OF REPORT*******