

RF EXPOSURE REPORT

Reference No.....	:	WTN25X11292056W002
FCC ID	:	VYYDM25TEMTV00
Applicant	:	NINGBO DOOYA MECHANIC & ELECTRONIC TECHNOLOGY CO., LTD.
Address	:	No.168 Shengguang Road, Luotuo, Zhenhai, Ningbo, ZHEJIANG, China
Manufacturer	:	The same as Applicant
Address	:	The same as Applicant
Product Name	:	Tubular Motor
Model No.....	:	DM25TE/MT-1.5/32
Standards	:	FCC Rule Part 1.1307 KDB 447498 D04
Date of Receipt sample	:	2025-11-06
Date of Test.....	:	2025-11-11 to 2026-07-12
Date of Issue	:	2026-07-24
Report Form No.	:	WTX_Part 1_1307W
Result.....	:	Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

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Tested by:

Approved by:

GuoLa Wang

Gala Wang/Project Engineer

Jason Su

Jason Su/Manager

1 General Information

General Description of EUT	
Product Name:	Tubular Motor
Trade Name:	/
Model No.:	DM25TE/MT-1.5/32
Adding Model(s):	/
Rated Voltage:	AC 100-240V
Power Adaptor :	/
Equipment Type:	Mobile device

Technical Characteristics of EUT	
Frequency Range:	433.92MHz
Max. Field Strength:	433.92MHz: 81.35dBuV/m(3m)
Data Rate:	/
Modulation:	2GFSK
Antenna Type:	Line Antenna
Antenna Gain:	0dBi

2 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

3 RF Exposure Exemption

According to §1.1307(b)(3) and KDB 447498 D04 Interim General RF Exposure Guidance v01, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

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Option A: FCC Rule Part 1.1307 (b)(3)(i)(A): The available maximum time-averaged power is no more than 1mW, regardless of separation distance.

Option B: FCC Rule Part 1.1307 (b)(3)(i)(B): 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. 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);

Option C: FCC Rule Part 1.1307 (b)(3)(i)(C): The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters.

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$
1.34-30	$3,450 R^2/f^2$
30-300	$3.83 R^2$
300-1,500	$0.0128 R^2 f$
1,500-100,000	$19.2 R^2$

For Multiple RF sources: FCC Rule Part 1.1307(b)(3)(ii):

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required).

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(B) In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

4 Calculated Result

Radio Access Technology	Prediction Frequency (MHz)	Output Power (dBm)	Antenna Gain (dBi)	Duty Cycle (%)	Tune-Up Time-Averaged Power (dBm)	ERP (dBm)
SRD	433.92	-13.91	0	100	-13.00	-15.15
Bluetooth LE	2402	6.60	1.60	100	7.00	6.45
Thread	2405	6.62	1.60	100	7.00	6.45

Frequency (MHz)	Option	Min. Distance (cm)	Max. Power (dBm) (mW)		Exposure Limit (mW)	Ratio	Result Pass/Fail
433.92	C	20.00	-15.15	0.03	222.17	0.01	Pass
2402	C	20.00	6.45	4.42	768.00	0.01	Pass
2405	C	20.00	6.45	4.42	768.00	0.01	Pass

Note: 1. Time-Averaged Power=Output Power * Duty Cycle; ERP= Time-Averaged Power+ Antenna gain-2.15dB

2. Option A, B and C refers as clause 1.2.

3. For option B, Max (time-averaged power, effective radiated power (ERP)) converts to Max. Power. For option C, ERP converts to Max. Power;

4. For option B, P_{th} (mW) converts to Exposure Limit (mW); For option C, ERP (W) converts to Exposure Limit (mW).

5. Ratio= Tune-Up ERP (mW)/ Exposure Limit (mW)

Mode for Simultaneous Multi-band Transmission:

Radio Access Technology	Ratio 1	Ratio 2	Simultaneous Ratio	Limit	Result Pass/Fail
SRD + 2.4G	0.01	0.01	0.02	1	Pass

Note:

For BLE & Thread Module (FCC ID: VYYHRN71; the issue date: 06/24/2026)

Bluetooth LE Maximum peak output power (dBm):6.60; Antenna Gain (dBi):1.6

Thread Maximum peak output power (dBm):6.62; Antenna Gain (dBi):1.6

Result: Pass