

TEST REPORT

Product Name : Robotic Pool Cleaner
TYP C1, Talosbo C1, C1, **C1 (** be single or
Model Number : multiple digits by any alphabets and
punctuation marks denoting different model
number, brands and appearance shape)
FCC ID : 2BN5V-C1

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Date of sample receipt : Feb 03, 2026
Date(s) of Tests : Feb 03, 2026 to Mar 04, 2026
Date of issue : Mar 05, 2026

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1. TEST RESULT CERTIFICATION

Applicant : Nanjing Toua Robot Technology Co.,Ltd
Address : Room 501, No. 69, Shang Qinhuai Street, Jiangning District, Nanjing City, Jiangsu Province, China
Manufacturer : Nanjing Toua Robot Technology Co.,Ltd
Address : Room 501, No. 69, Shang Qinhuai Street, Jiangning District, Nanjing City, Jiangsu Province, China
Factory : Anhui Toua Robot Co.,Ltd.
Address : Building 4#, No.29, Runzhou Road, Danyang Town, Bowang District, Maanshan, Anhui Province, P.R.China
EUT : Robotic Pool Cleaner
Model Name : TYP C1, Talosbo C1, C1, **C1 (** be single or multiple digits by any alphabets and punctuation marks denoting different model number, brands and appearance shape)
Trademark : N/A

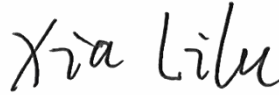
Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1091	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1091.
The test results of this report relate only to the tested sample identified in this report

Date of Test : Feb 03, 2026 to Mar 04, 2026

Prepared by : 
Yu Xiaolan /Editor

Reviewer : 
Xia Lili/Supervisor

Approve & Authorized Signer : 
Wang Li/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2602030159W00304R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Robotic Pool Cleaner
Model Number:	TYP C1, Talosbo C1, C1, **C1 (** be single or multiple digits by any alphabets and punctuation marks denoting different model number, brands and appearance shape) (Note: These models are the same, except for the model number, brands and appearance shape. TYP C1 was selected for full test.)
Sample:	2#
Device Type:	BT/BLE 2.4G WIFI
Data Rate:	802.11b 802.11g 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth) 1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation 1Mbps for GFSK modulation
Modulation:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2412-2462MHz for 802.11b/g/n(HT20); 2422-2452MHz for 802.11n(HT40); 2402-2480MHz
Number of Channels:	11 channels for 802.11b/g/n(HT20); 7 Channels for 802.11n(HT40); BT: 79 channels BLE:40 channels
Transmit Power Max:	BT:2.26 dBm(0.001683 W) BLE:-2.29 dBm(0.000590 W) 2.4G WIFI:15.47 dBm(0.035237 W)
Antenna Type:	PCB Antenna
Antenna Gain:	2.33 dBi
Power supply:	DC 22V from adapter Adapter:Model:FY0632202500U INPUT:100-240V~ 50/60Hz 1.8A Output: 22.0V= 2.5A DC 19.2V built-in battery
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R =20, distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

Antenna gain:
2.4G: 2.33 dBi

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain		(mW/cm2)	(mW/cm2)
				(dBm)	(mW)	(dBi)	Numeric		
2412	11B	14.42	14±1	15	31.623	2.33	1.71	0.0108	1
2437		14.27	14±1	15	31.623	2.33	1.71	0.0108	1
2462		15.47	15±1	16	39.811	2.33	1.71	0.0135	1
2412	11G	11.73	11±1	12	15.849	2.33	1.71	0.0054	1
2437		11.77	11±1	12	15.849	2.33	1.71	0.0054	1
2462		13.41	13±1	14	25.119	2.33	1.71	0.0085	1
2412	11N20SISO	11.69	11±1	12	15.849	2.33	1.71	0.0054	1
2437		11.62	11±1	12	15.849	2.33	1.71	0.0054	1
2462		13.24	13±1	14	25.119	2.33	1.71	0.0085	1
2422	11N40SISO	10.81	10±1	11	12.589	2.33	1.71	0.0043	1
2437		11.15	11±1	12	15.849	2.33	1.71	0.0054	1
2452		11.82	11±1	12	15.849	2.33	1.71	0.0054	1

Antenna gain:
BT/BLE: 2.33 dBi

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain		(mW/cm2)	(mW/cm2)
				(dBm)	(mW)	(dBi)	Numeric		
2402	GFSK	-1.56	-1±1	0	1.000	2.33	1.71	0.0003	1
2441		-1.69	-1±1	0	1.000	2.33	1.71	0.0003	1
2480		-0.12	0±1	1	1.259	2.33	1.71	0.0004	1
2402	π/4-DQPSK	0.62	0±1	1	1.259	2.33	1.71	0.0004	1
2441		0.55	0±1	1	1.259	2.33	1.71	0.0004	1
2480		1.93	2±1	3	1.995	2.33	1.71	0.0007	1
2402	8-DPSK	0.89	1±1	2	1.585	2.33	1.71	0.0005	1
2441		0.87	1±1	2	1.585	2.33	1.71	0.0005	1
2480		2.26	2±1	3	1.995	2.33	1.71	0.0007	1
2402	GFSK (1M)	-2.29	-2±1	-1	0.794	2.33	1.71	0.0003	1
2440		-3.24	-3±1	-2	0.631	2.33	1.71	0.0002	1
2480		-2.87	-2±1	-1	0.794	2.33	1.71	0.0003	1

According to KDB 447498, no stand-alone required for WIFI/BT/BLE antenna, and no simultaneous SAR measurement is required.

*** End of Report ***