

Ecovacs Home Service Robotics Co., Ltd.

MPE ASSESSMENT REPORT

Report Type:

FCC Part §2.1091 and §1.1307(b) assessment report

Model:

ZJ2576, ZJ2576-Y, ZJ2633, ZJ2633-Y

REPORT NUMBER:

2605B1819SHA-003

ISSUE DATE:

July 8, 2026

DOCUMENT CONTROL NUMBER:

TTRFFCCMPE-01_V1 © 2018 Intertek



Applicant: Ecovacs Home Service Robotics Co., Ltd.
No.518 Songwei Road,Wusongjiang industry Park, Guoxiang Street,
Wuzhong District, Suzhou, Jiangsu, China.

Manufacturer: Same as applicant

Factory 1: Ecovacs Home Service Robotics Co., Ltd.
No.518 Songwei Road, Wusongjiang industry Park, Guoxiang
Street, Wuzhong District, Suzhou, Jiangsu, China.

Factory 2: Competition Team Technology (Vietnam) Co.Ltd.
Lot CN-05, Dong Mai Industrial Zone, Dong Mai ward, Quang Ninh
province, Vietnam

FCC ID: 2A64B-ZJ2576

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06
FCC Part2.1091, FCC Part1.1307(b)

PREPARED BY:



Project Engineer
Eric Li

REVIEWED BY:



Reviewer
Wakeyou Wang

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Revision History

Report No.	Version	Description	Issued Date
2605B1819SHA-003	Rev. 01	Initial issue of report	July 8, 2026

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Floor Cleaning Robot
Type/Model:	ZJ2576, ZJ2576-Y, ZJ2633, ZJ2633-Y
Description of EUT:	The EUT is a Floor Cleaning Robot, it supports Bluetooth and WIFI functions. There are four models, High-spec series model numbers: ZJ2576, ZJ2576-Y Standard-spec series model numbers: ZJ2633, ZJ2633-Y The two model ranges (with -Y and without -Y) are distinguished solely by naming, with identical configurations. The only difference between high-spec and standard-spec versions lies in the fan accessory; all other structures, spare parts and performance parameters are fully consistent, with no other differentiating features. We tested ZJ2576 as representative and listed the worst results in this report.
Rating:	Rated Input: 20V 1.5A
Brand Name:	  
EUT type:	☐ Table top ☒ Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	A260607-001-002
Sample received date:	2026.6.7
Date of test:	2026.6.7~2026.6.23

1.2 Technical Specification

Frequency Band:	2402MHz to 2480MHz
Support Standards:	Bluetooth Low Energy
Type of Modulation:	GFSK
Channel Number:	40
Data Rate	1Mbps
Channel Separation:	2MHz
Antenna Information:	PCB Antenna, gain is 1.10dBi

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40, IEEE 802.11ax-HT20,
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)

TEST REPORT

	IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Channel Number:	11 Channels for 802.11b, 802.11g, 802.11n(HT20), 802.11ax20 7 Channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna:	PCB Antenna, 1.10dBi

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^4	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	-
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	-
0,8-3 kHz	$250/f$	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	$0,73/f$	$0,92/f$	-
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

TEST REPORT

2.2 Assessment Results

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 2605B1819SHA-001 and 2605B1819SHA-002:

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Mode	Frequency band	Max Power	Antenna Gain	R	S	Limits
	(MHz)	dBm	dBi	(cm)	(mW/cm2)	(mW/cm2)
Bluetooth	2402-2480	2.48	1.10	20	0.0005	1
WIFI	2412-2462	17.47	1.10	20	0.0143	1

Note: 1 mW/cm2 from 1.310 Table 1

This product doesn't support simultaneously transmitting; therefore, the MPE requirement is deemed to be satisfied without test.

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations closer than this distance are not recommended.

***** END *****