

MPE TEST REPORT

Applicant Positec Technology (China) Co., Ltd.
FCC ID 2ASC3RBT202503
Product Robotic Lawnmower
Brand WORX
Model WR310, WR310.1, WR320, WR320.1
Report No. EFTA25060257-IE-06-M2V3
Issue Date December 1, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 §1.1310, §2.1091**. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.



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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	November 13, 2025
Rev.1	Updated data. Updated information.	November 14, 2025
Rev.2	Updated information.	November 24, 2025
Rev.3	Updated data. Updated information.	December 1, 2025
Note: This revised report (Report No.: EFTA25060257-IE-06-M2V3) supersedes and replaces the previously issued report (Report No.: EFTA25060257-IE-06-M2V2). Please discard or destroy the previously issued report and dispose of it accordingly.		

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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Description of Equipment Under Test

Client Information

Applicant	Positec Technology (China) Co., Ltd.
Applicant address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China
Manufacturer	Positec Technology (China) Co., Ltd.
Manufacturer address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China

General Technologies

EUT Description			
Model	WR310, WR310.1, WR320, WR320.1		
Lab internal SN	EFTA25060257-IE-06/S01		
Hardware Version	PLB100.1.11		
Software Version	V3.40		
Frequency	Band	TX (MHz)	RX (MHz)
	Wi-Fi 2.4GHz	2412 ~ 2462	2412 ~ 2462
	NearLink SLE	2400 ~ 2483.5	2400 ~ 2483.5
	Bluetooth (Low Energy)	2400 ~ 2483.5	2400 ~ 2483.5
Date of Sample Received	June 16, 2025		
EUT Accessory			
Adapter	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3752; WA3752. *		
Battery 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3674		
Battery 2	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3675		
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

This report is a variant of Report EFTA25060257-IE-06-M1V2.

The differences between variant and original is as below, and the detailed product change description please refers to the Difference Declaration Letter:

Description		FCC ID	IC	Manual adjustment knob	4G Module	GNSS	Battery Pack	Adapter	HW Version	SW Version
WR340	Configuration 1	2ASC3RBT202501	24992-RBT202501	N	Y	UM960E	5AH--W A3675	5A--WA3805	PLH100.1.12	3.44B5 4
WR310	Configuration 2	2ASC3RBT202503	24992-RBT202503	Y	N	UM960E or LG290P	4AH--W A3674	3A--WA3752	PLB100.1.11	V3.40
WR310.1	Configuration 3	2ASC3RBT202503	24992-RBT202503	N			4AH--W A3674	3A--WA3752	PLB100.1.11	V3.40
WR320	Configuration 4	2ASC3RBT202503	24992-RBT202503	N			5AH--W A3675	3A--WA3752	PLB100.1.11	V3.40
WR320.1	Configuration 5	2ASC3RBT202503	24992-RBT202503	N			5AH--W A3675	3A--WA3752	PLB100.1.11	V3.40

All evaluation data and results of WiFi/NearLink SLE/Bluetooth LE in this report are derived from Report EFTA25060257-IE-06-M1V2.

3 Maximum Tune up and Antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by

Numeric gain (G)= $10^{(\text{antenna gain}/10)}$

Band	Maximum Tune up Tolerance		Antenna Gain (dBi)	Numeric Gain
	(dBm)	(mW)		
Wi-Fi 2.4GHz	23.00	199.53	4.50	2.82
NearLink SLE	21.00	125.89	4.50	2.82
Bluetooth LE	16.00	39.81	4.50	2.82

4 MPE Limit

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(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.*

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The maximum permissible exposure for 300~1500 MHz is f/1500, for 1500~100,000MHz is 1.0. So

Band	The Maximum Permissible Exposure (mW/cm ²)
Wi-Fi 2.4GHz	1.000
NearLink SLE	1.000
Bluetooth LE	1.000

5 RF Exposure Evaluation Result

RF exposure evaluation method is based on KDB 447498 D01, this calculation is based on the conducted power, maximum power and antenna gain with provides the minimum separation distance. The formula shown below is from OET Bulletin 65 Edition 97-01 Per KDB 447498 D01:

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

Where: S = power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	Maximum Tune up (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	PG (mW)	Result (mW/cm ²)	Limit Value (mW/cm ²)	The MPE Ratio
Wi-Fi 2.4GHz	23.000	4.500	27.500	562.341	0.112	1.000	0.112
NearLink SLE	21.000	4.500	25.500	354.813	0.071	1.000	0.071
Bluetooth LE	16.000	4.500	20.500	112.202	0.022	1.000	0.022
Note: R = 20cm $\pi = 3.1416$ The MPE Ratio = Mac Result ÷ Limit Value							

This device does not support transmit simultaneously.

So, the limit is kept.

Note: For this device, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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