

FCC RF EXPOSURE REPORT

For

Smart Cordless Vacuum & Washer

MODEL NUMBER: FW103200US

PROJECT NUMBER: 4790554902

REPORT NUMBER: 4790554902-5

FCC ID: 2AV7A-FS12

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Prepared for

Tineco Intelligent Technology Co., Ltd.

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	12/07/2022	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Company Name:	Tineco Intelligent Technology Co., Ltd.
Address:	No. 108 Shihu Road West, Wuzhong Zone, Suzhou, 215168 P.R.China
Factory Information Company Name: Address:	Tineco Intelligent Technology Co., Ltd.
EUT Description	No. 108 Shihu Road West, Wuzhong Zone, Suzhou, 215168 P.R.China
Product Name:	Smart Cordless Vacuum & Washer
Model Number:	FW103200US
Sample Number:	5487085
Data of Receipt Sample:	Dec.01, 2022
Date Tested:	Dec.01, 2022 –Dec.06, 2022

APPLICABLE STA	NDARDS
STANDARD	TEST RESULTS
FCC Guidelines for Human Exposure IEEE C95.1	Complies
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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06 and FCC Guidelines for Human Exposure IEEE C95.1.

3. FACILITIES AND ACCREDITATION

Test Location	UL-CCIC Company Limited, EMC&RF Lab
Address	No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122 ,China
Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056; CAB No.:CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.

Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty			
Output Power to Antenna	0.69 dB			
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.				

5. REQUIREMENT

<u>LIMIT</u>

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure					
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f2)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/150	30	
1500-100,000			1.0	30	
Note 1: f = frequency in MHz, * means Plane-wave equivalent power density					

Note 2: 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 cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

$S = PG/(4\pi R2)$

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

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



CALCULATED RESULTS

WIFI (Worst case)								
Mode	Frequency Range	Output I Ant	ower to Antenna Gain		Power Density	Limit	Verdict	
	(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	rendiet
11B	2412~2462	12.0	15.85	2	1.58	0.0050	1	Complies

Note:

- 1. The output power to antenna and antenna gain are from operation description document.
- 2. The minimum separation distance of the device is greater than 20 cm.
- 3. All the modes and channels had been tested, but only the worst data was recorded in the report.
- 4. The calculated result for the sample received is <Pass> according to < FCC Guidelines for Human Exposure IEEE C95.1> when <Accuracy Method> decision rule is applied.

END OF REPORT