

Prüfbericht-Nr.: Test report no.:	CN23XBFF 001	Auftrags-Nr.: Order no.:	180256997	Seite 1 von 3 Page 1 of 3
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2023.02.17	
Auftraggeber: Client:	Shenzhen LYF Intelligence Co., Ltd. NO.501 Building 1, Shenzhen Software Park Yuehai Street, Nanshan District, Shenzhen City, Guangdong P.R. China			
Prüfgegenstand: Test item:	Robotic mower			
Bezeichnung / Typ-Nr.: Identification / Type no.:	N1000, N2000			
Auftrags-Inhalt: Order content:	TÜV Rheinland – FCC & ISED Service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 2.1091		RSS-102 Issue 5	
Wareneingangsdatum: Date of sample receipt:	2023.05.22	Refer to Photo Documentation		
Prüfmuster-Nr.: Test sample no.:	A003478075			
Prüfzeitraum: Testing period:	2023.06.12 - 2023.07.25			
Ort der Prüfung: Place of testing:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2023.10.30			Ausstelldatum: Issue date: 2023.10.30	
Stellung / Position:	Keda Zhou/PE	Stellung / Position:	Feng Liang//Authorizer	
Sonstiges / Other:	FCC ID: 2BAQQNOVABOT001 ISED: 30447-NOVABOT001			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend 4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory 4 = sufficient N/A = not applicable	5 = poor N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Radio Frequency Exposure Compliance

1. FCC Electromagnetic Fields

Result:

Pass

Test Specification

Test standard : FCC 47 CFR Part 2.1091
CFR47 FCC Part 1.1310

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.

MPE Calculation:

The power Density (mW / CM^2) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

S=power density (mW / CM^2)

P=power input to the antenna (mW)

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

R=distance to the center of radiation of the antenna (CM)

Mode	Max Power (dBm)	Max e.i.r.p. (mW)	Distance (cm)	Power Density (mW/ cm ²)	Power Density Limit (mW/ cm ²)	Verdict
A	6.95	4.95	20	0.00098	1.0	Pass
B	17.47	55.85	20	0.011	1.0	Pass

Remark: Data comes from report CN23XAMH 001.

Conclusion:

EUT is compliance with the FCC RF exposure.

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2. IC Electromagnetic Fields

Result:

Pass

Test Specification

Test standard : RSS-102 Issue 5

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

At or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

RF exposure evaluation exempted power: 2.67W

MPE Calculation:

Mode	Max Power (dBm)	Max e.i.r.p. (mW)	Distance (cm)	Exemption Limits maximum e.i.r.p (W)	Verdict
A	6.95	4.95	20	2.67	Pass
B	17.47	55.85	20	2.67	Pass

Remark: Data comes from report CN23XAMH 001.

Conclusion:

EUT is compliance with the IC RF exposure.

-- The END --