

Xiamen Sunnyway Plastic Company Limited

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
11024

REPORT NUMBER:
220601669SHA-002

ISSUE DATE:
October 25, 2022

DOCUMENT CONTROL NUMBER:
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TEST REPORT

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Report no.: 220601669SHA-002

Applicant: Xiamen Sunnyway Plastic Company Limited
Floor1-2, Building #2 No 1 Dong Ren Road Ji Mei District, Xiamen, Fujian, China

Manufacturer: Xiamen Sunnyway Plastic Company Limited
Floor1-2, Building #2 No 1 Dong Ren Road Ji Mei District, Xiamen, Fujian, China

Factory: Xiamen Sunnyway Plastic Company Limited
Floor1-2, Building #2 No 1 Dong Ren Road Ji Mei District, Xiamen, Fujian, China

FCC ID: 2A8AI-1024

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 Part2.1093 FCC Part1.1307(b)

PREPARED BY:

Scout Gong
Project Engineer

REVIEWED BY:

Eric Li
Reviewer

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TEST REPORT**Revision History**

Report No.	Version	Description	Issued Date
220601669SHA-002	Rev. 01	Initial issue of report	October 25, 2022

TEST REPORT**1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

Product name:	Digital Speed Measurement
Type/Model:	11024
Description of EUT:	The EUT is a digital speed measurement with 433.944 MHz wireless module. The EUT can transmit 433.944MHz signal to the receiver device. The worst data were listed in this report.
Rating:	3V DC
EUT type:	<input checked="" type="checkbox"/> Tabletop <input type="checkbox"/> Floor standing
Brand name:	/
Software Version:	/
Hardware Version:	/
Sample received date:	Aug 18, 2022
Date of test:	Aug 18, 2022, to Aug 30, 2022

TEST REPORT**1.2 Technical Specification**

Operation Frequency:	433.944MHz
Type of Modulation:	ASK
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Channel Number:	1
Antenna Designation:	Integral PCB antenna, non-user removable
Gain of Antenna:	0dBi max (Declared by manufacture)

TEST REPORT**1.3 Description of Test Facility**

Name:	Intertek Testing Services Shanghai
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 L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab Registration code No.: 2042B-1
	VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT**2 MPE Assessment****Test result:** Pass**2.1 MPE Assessment Limit****Mobile device exposure for standalone operations:**

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

Note: Limit for 433.944MHz is 0.289 (mW/cm²)

TEST REPORT**2.2 Assessment Results**

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

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

Where S = power density in mW/cm²

P = Radiated transmit power in mW

R = distance (cm)

As we can see from the test report 220601669SHA-001:

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	Field Strength	Max Power	P	S	Limits
	(MHz)	dBuV/m	dBm	mW	(mW/cm ²)	(mW/cm ²)
-	433.944	57.40	-37.83	0.0001648	0.000000003	0.289

Note: Limit for 433.944MHz is 0.289 (mW/cm²)

For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v06

TEST REPORT**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 at closer than this distance is not recommended.

***** END *****