

Xiamen Rongji Precision Technology Co., Ltd

MPE ASSESSMENT REPORT

Report Type:

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

Model:

TC012/TC512/TC012A/CSTE01

REPORT NUMBER:

2411B2506SHA-002

ISSUE DATE:

July 7, 2025

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TEST REPORT

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Report no.: 2411B2506SHA-002

Applicant: Xiamen Rongji Precision Technology Co., Ltd
76 Zhaihou North Road, Haicang District, Xiamen

Manufacturer: Xiamen Rongji Precision Technology Co., Ltd
76 Zhaihou North Road, Haicang District, Xiamen

Manufacturer Site: Xiamen Rongji Precision Technology Co., Ltd
76 Zhaihou North Road, Haicang District, Xiamen

Product Name: Smart Toilet

Type/Model: TC012/TC512/TC012A/CSTE01

FCC ID: 2AZ8KRJTC012

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
Dylan Tang

REVIEWED BY:

Reviewer
Wakeyou Wang

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TEST REPORT**Revision History**

Report No.	Version	Description	Issued Date
2411B2506SHA-002	Rev. 01	Initial issue of report	June 27, 2025
2411B2506SHA-002	Rev. 02	The frequency range has been modified	July 7, 2025

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

Product name:	Smart Toilet
Type/Model:	TC012/TC512/TC012A/CSTE01
Description of EUT:	The EUT is a Smart Toilet that supports 24G function, the five models are the same, except for the different pump flushing system and flush. So choose TC512 to test as representative..
Rating:	AC 120V, 60Hz, 1050W MAX
Category of EUT:	Class B
EUT type:	<input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing
Product Marketing Name:	TC012/TC512/TC012A/CSTE01
HVIN:	TC012/TC512/TC012A/CSTE01
Software Version:	V1.0
Hardware Version:	MA03L
Sample received date:	December 10, 2024
Date of test:	December 10, 2024 ~ March 09, 2025

1.2 Technical Specification

Frequency Range:	24030MHz ~ 24230MHz
Type of Modulation:	GFSK
Channel Number:	1
Antenna Information:	Patch Antenna Arrays

TEST REPORT**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 Registration No.: R-14243, G-10845, C-14723, T-12252
	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

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/cm^2

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 2411B2506SHA-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.

Frequency band	Fundamental Radiated Emission	Maximum EIRP	R	S	Limits
(MHz)	(dBuV/m)	dBm	(cm)	(mW/cm ²)	(mW/cm ²)
24000 ~ 24250	94.24	-0.96	20	0.00016	1

Note: 1 mW/cm^2 from 1.310 Table 1.

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*****