



RF Exposure Evaluation Declaration

Report No.: S202304215278E11

Issue Date: 11-02-2023

Applicant: Suzhou Performance Information Technology Co., Ltd.

Address: 2F, Building 4th No.99 Gangtian Road, Suzhou
Industrial Park Jiangsu Province, P.R.China

FCC ID: 2BB6ATEKHOME

Application Type: Certification

Product: Multifunctional Clock Bluetooth Speaker Charger

Model No.: TEKHOME ONXYZ

FCC Classification: Digital Transmission System (DTS)
Spread Spectrum Transmitter (DSS)

FCC Rule Part(s): CFR 47, FCC Part 2.1091 Radio frequency radiation
exposure evaluation: mobile devices.

Item Receipt date: Apr 20,2023

Test Date: Nov 23~ Dec 19, 2022

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The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

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The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S202304215278E11	Rev. 01	/	11-02-2023

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Multifunctional Clock Bluetooth Speaker Charger
Model Name:	TEKHOME ONXYZ
Additional Model:	TEKHOME ONXYZ Pro, TEKHOME ONXYZ Plus, TEKHOME ONXYZ1, TEKHOME ONXYZ1 Pro
Trade Mark:	  Tekism Dynamics  
Power Supply Rating:	Input: 20V==3.25A Adapter1: Model: A869-200325C-US1 Input: 100-240V~ 50/60Hz 1.7A Output: DC 5V 3A 15.0W/9V 3A 27.0W/12V 3A 36.0W/15V 3A 45.0W/20V 3.25A 65.0W 3.3-21V 3.25A 65.0W Max Adapter2: Model: PSD67-C Input: 100-240V~ 50/60Hz 1.6A Output: DC 5V 3A/9V 3A/12V 3A/15V 3A/20V 3.35A Pps:3.3-21.0V 3.0A 67.0W Max
Bluetooth Version:	4.0

1.2. Product Specification Subjective to this Report

Bluetooth Frequency	2402~2480MHz
Bluetooth Version	4.0
Type of modulation	BLE:GFSK BT: GFSK, $\pi/4$ DQPSK
Data Rate	BLE:1Mbps BT:1Mbps(GFSK), 2Mbps($\pi/4$ DQPSK)
Antenna Type:	PCB Antenna
Antenna Gain:	-0.05dBi

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	f/1500	6
1500-100,000	--	--	1	30

f= Frequency in MHz

Calculation Formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.2. Test Result of RF Exposure Evaluation

Product Name:	Multifunctional Clock Bluetooth Speaker Charger
Test Item:	RF Exposure Evaluation

Mode	Frequency (MHz)	Maximum Conducted OutputPower (dBm)	Antenna Gain (dBi)	PG		MPE (mW/cm ²)	MPE Limits (mW/cm ²)
				(dBm)	(mW)		
BT	2402 - 2480	0.59	-0.05	0.54	1.132	0.00022	1.00
BLE	2402 - 2480	-0.32	-0.05	-0.37	0.918	0.00018	1.00

Remark: MPE use distance is 20cm from manufacturer declaration of user manual.

CONCULISON:

The Max Power Density at R (20 cm) = $0.00022\text{mW/cm}^2 < 1\text{mW/cm}^2$.

So the EUT complies with the requirement.

_____ The End _____