

RF Exposure Report

For

Applicant Name:

Address:

EUT Name:

Brand Name:

Model Number:

PHROZEN TECH CO., LTD. 3F., NO287, NIUPU RD., XIANGSHAN DIST., HSINCHU CITY 30091, TAIWAN Desktop 3D Printer

🕏 phrozen

Phrozen Sonic Mighty 14K Revo

Issued By

Company Name:

Address:

Report Number: Test Standards: FCC ID: Test Conclusion: Test Date: Date of Issue:

Prepared By:

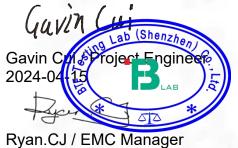
Date:

Approved By:

Date:

BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

BTF240110R01003 47 CFR Part 2 Subpart J Section 2.1091 2BCTP-14KREVO Pass 2024-02-28 to 2024-04-07 2024-04-15



2024-04-15

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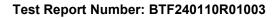
Revision History				
Version	Issue Date	Revisions Content		
R_V0	2024-04-07	Original		
Note:	Once the revision has	Once the revision has been made, then previous versions reports are invalid.		

Test Report Number: BTF240110R01003



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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Community, Songgang Street, Bao'an District, Shenzhen, China			
Phone Number:	+86-0755-23146130		
Fax Number:	+86-0755-23146130		

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.				
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China				
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China				
FCC Registration Number:	518915				
Designation Number:	CN1330				

1.3 Laboratory Condition

Ambient Temperature:	20°C to 25°C
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
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- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2. Product Information

2.1 Application Information

Company Name:	PHROZEN TECH CO., LTD.
Address:	3F., NO287, NIUPU RD., XIANGSHAN DIST., HSINCHU CITY 30091, TAIWAN

2.2 Manufacturer Information

Company Name:	PHROZEN TECH CO., LTD.
Address:	3F., NO287, NIUPU RD., XIANGSHAN DIST., HSINCHU CITY 30091, TAIWAN

2.3 Factory Information

Company Name:	DONGGUAN CITY PHROZEN TECH CO., LTD.
Address:	Room 601, No.28, Xinhong Road, Lincun, Tangxia Town, Dongguan City, Guangdong Province, China

2.4 General Description of Equipment under Test (EUT)

EUT Name	Desktop 3D Printer
Under Test Model Name Phrozen Sonic Mighty 14K Revo	
Hardware Version	PZPC2023V2

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3. Test Requirement

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	Electric field	Magnetic field strength	Power density	Averaging time	
(MHz)	strength(V/m)	(A/m)	(mW/cm ²) (minut		
	(A) Limits f	or Occupational/Controlled	Exposures		
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	
300-1500	-	-	f/300	6	
1500-100,000	-	-	5	6	
	(B) Limits for G	General Population/Uncontr	olled 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	
300–1500	-	-	f/1500	30	
1500-100,000	-	-	1.0	30	

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: Pd = (Pout*G)/(4*pi*r²)

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW, **G** = gain of antenna in linear scale; **Pi** = 3.1416, **R** = distance between observation point and center of the radiator in cm

3.1 Assessment Result

- ⊠ Passed
- Not Applicable

Frequency (MHz)	Туре	Conducted Power (dBm)	Maximum Tune- up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
2412	2.4G WIFI 802.11b	12.67	13.0	0.0063	1.0000	Pass
5230	5G WIFI 802.11n (HT40)	12.31	13.0	0.0063	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.





BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

www.btf-lab.com

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