

MPE TEST REPORT

Applicant	TAKAYA Corporation
FCC ID	MK4IN-M-RST
Product	HYBRID Resetter
Model	IN-M-RST
Report No.	R2311A1307-M1V1
Issue Date	April 9, 2024

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 1.1307**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	March 4, 2024
Rev.1	Update information.	April 9, 2024
Note: This revised report (Report No.: R2311A1307-M1V1) supersedes and replaces the previously issued report (Report No.: R2311A1307-M1). Please discard or destroy the previously issued report and dispose of it accordingly.		

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Description of Equipment Under Test

Client Information

Applicant	TAKAYA Corporation
Applicant address	661-1 Ibara-cho,Ibara-shi,Okayama, Japan
Manufacturer	Hangzhou Century Co., Ltd.
Manufacturer address	528 Xingqi Road,Yuhang Economic Development Area, Hangzhou, P.R.China

General Technologies

EUT Description	
Model	IN-M-RST
SN	23000296
Hardware Version	19044P01-PWB-V11
Software Version	19044S01-V14
Date of Testing	December 13, 2023 ~ December 25, 2023
Date of Sample Received	December 4, 2023
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.	

3 Test Result

According to Human Exposure to Radiofrequency Electromagnetic Fields and Reassessment of FCC Radiofrequency Exposure Limits and Policies and § 1.1307(b)(3)(i)(A):

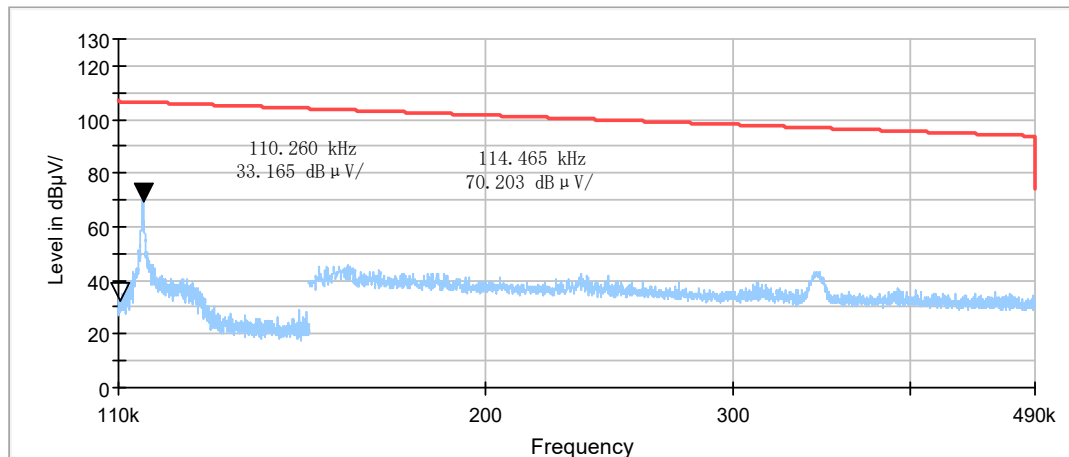
1-mW Blanket Exemption.

For extremely low-power fixed, mobile, and portable RF sources, the Commission adopted a blanket RF exposure evaluation exemption for a single transmitter operating with up to 1 mW of time-averaged available (matched conducted) power, irrespective of the separation distance from the human body. The 1-mW exemption is independent of service type and covers the full frequency range from 100kHz to 100GHz.

So

Frequency (kHz)	Limit (mW)
114.3	1

A symbol ($\text{dB}\mu\text{V}/$) in the test plot below means (dB $\mu\text{V}/\text{m}$)



110 kHz ~ 490 kHz

Carrier Frequency (MHz)	Max.E-field strength @ 3m (dB $\mu\text{V}/\text{m}$)
114.3 kHz	70.203

$$\text{EIRP}[\text{dBm}] = \text{E}[\text{dB}\mu\text{V}/\text{m}] - 95.2 = -24.997\text{dBm}$$

$$\text{Gain} = 0 \text{ dBi}$$

So

$$\text{Maximum Output Power} = \text{EIRP} - \text{Gain} = -24.997 \text{ dBm}$$

Carrier Frequency (MHz)	Max output power (dBm)	Max output power (mW)	P _{max} (mW)	Conclusion
114.3 kHz	-24.997	0.003164463	1	Pass

Note: For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

*****END OF REPORT *****