RF Exposure Evaluation

FCC ID	:	OHBRTC1020
Applicant	:	AAEON Technology Inc.
Application Type	:	Certification
Product	:	Rugged Tablet
Model No.	:	RTC-1020
Series Model No.	:	x RTC-1020x(x – Where x may be any combination of alphanumeric characters or “-” or blank)
Brand Name	:	AAEON Technology Inc.
FCC Rule Part(s)	:	Part 2.1091 (Mobile)
Received Date	:	March 22, 2023

Tested By : Fran Chen
(Fran Chen)

Reviewed By : Paddy Chen
(Paddy Chen)

Approved By : Chenz Ker
(Chenz Ker)

Testing Laboratory
3261

The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2303TW3804-U3	1.0	Original Report	2023-06-28	

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General Information

Applicant	AAEON Technology Inc.
Applicant Address	5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien Dist., New Taipei City, 231, Taiwan R.O.C.
Manufacturer	AAEON Technology Inc.
Manufacturer Address	5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien Dist., New Taipei City, 231, Taiwan R.O.C.
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
Test Device Serial No.	N/A ☐ Production ☒ Pre-Production ☐ Engineering

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

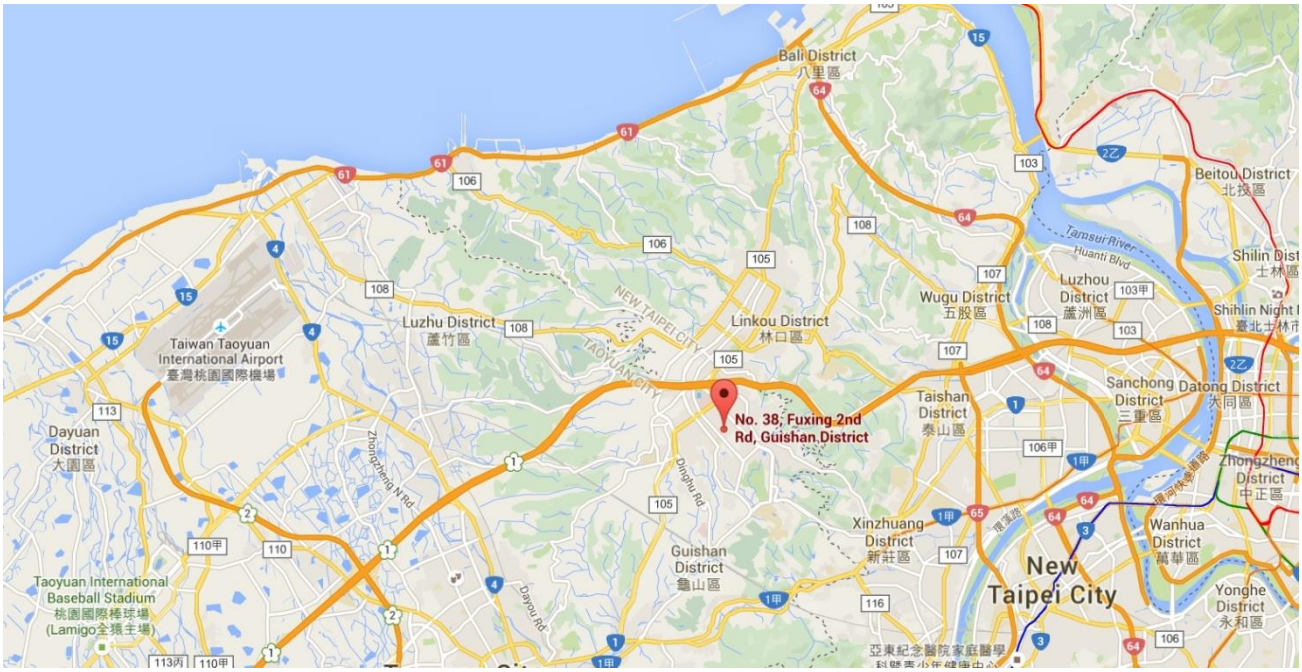
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	Rugged Tablet
Model No.	RTC-1020
Series Model No.	x RTC-1020x(x – Where x may be any combination of alphanumeric characters or “-” or blank)
Brand Name	AAEON Technology Inc.
Supports Radios Spec.	**WPAN:** Bluetooth Dual Mode: V5.1 RFID 13.56MHz **WLAN:** 2.4G: 802.11b/g/n-20/n-40 5G: 802.11a/n-20/ac-20/n-40/ac-40/ac-80, Band 1,2,3,4 **WWAN:** 3G: Band 2, 5 4G: Band 2,4,5,7,17,41 **GNSS:** GPS, GLONASS, Galileo, BeiDou
Accessory	
Power Adapter	MFR: FSP Model No: FSP065-RBBN3 Input: AC 100-240Vac,1.5A 50-60Hz Output: DC 19.0V, 3.42A 65.0w Cable Out: Non-shielding, 1.8m with Core*1

Note:

1. Model Difference: The difference of models only for marketing different, the other hardware was the same. (declared by the manufacturer)
2. The test was performed base on RTC-1020.

2.2. Description of Available Antennas

Antenna Type	Loop Antenna

3. RF Exposure Evaluation

3.1. Limits

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.
The 1 mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph § 1.1307(b)(3)(ii)(A).
The 1 mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

3.2. Test Result of RF Exposure Evaluation

Product	Smart touch panel tablet
Test Item	RF Exposure Evaluation

Mode	Frequency Band (MHz)	EIRP Output Power (dBm)	EIRP Output Power (mW)	SAR Test Exclusion Limit (mW)
NFC	13.56	-46.09	0.0000246	1

So, this device can complies the SAR test exclusion.

Note:
Output power reference the following report: NFC report number is 2303TW3804-U2

The End