

Bauer Hockey, LLC

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

1062222

REPORT NUMBER:

250400525HAN-002

ISSUE DATE:

May 15, 2025

DOCUMENT CONTROL NUMBER:

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TEST REPORT

Applicant: Bauer Hockey, LLC
100 Domain Drive, Exeter, New Hampshire 03833, USA

Manufacturer: Bauer Hockey, LLC
100 Domain Drive, Exeter, New Hampshire 03833, USA

Factory: Shandong Xinlongsheng Rail Transit Co., Ltd.
No. 197 Shuangyuan Road, Jihongtan Street, Chengyang District, Qingdao
City, Shandong Province, China

FCC ID: 2BD6O-1062222A

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06

FCC Part 2.1091, FCC Part 1.1307(b)

PREPARED BY:**REVIEWED BY:**

Project Engineer
Offa Zhou

Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
250400525HAN-002	Rev. 01	Initial issue of report	May 15, 2025

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Skate Sharpening Machine
Type/Model:	1062222
Description of EUT:	The EUT covered in the report is skate sharpening machine. RFID card reader is incorporated in model for process control.
Rating:	Unit: 24VDC, Max. 144W Adaptor: Input: 100-240V~, 50/60Hz, 2.5A Output: 24VDC, 6A, 144W
EUT type:	<input checked="" type="checkbox"/> Tabletop <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Serial numbers:	1250207-03-002
Sample received date:	February 7, 2025
Date of test:	February 7, 2025 ~ April 24, 2025

1.2 Technical Specification

Frequency Range:	13.56 MHz ~ 13.56 MHz
Modulation:	ASK
Antenna gain:	PCB antenna

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 : CNAS Accreditation Lab
recognized, certified, Registration No. CNAS L21189
or accredited by these FCC Accredited Lab
organizations Designation Number: CN0175
IC Registration Lab
CAB identifier.: CN0014
VCCI Registration Lab
Member No: 3598 (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

Note: Limit for 13.56MHz is 60.77 V/m

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**

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/cm²

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 250400525HAN-001:

$$75.50\text{dBuV/m at } 3\text{m, @}20\text{cm} = @3\text{m} + 20\log(3/0.2) = 99.02\text{dBuV/m} = 0.0893\text{V/m} < 60.77 \text{ V/m}$$

The power for 2.4GHz Wi-Fi and BT module refers to certificate of FCC ID: 2AC7Z-ESPS3WROOM1.

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 Range	EIRP	Antenna Gain	R	S	Limits
	(mW)	(dBi)	(cm)	(mW/cm ²)	(mW/cm ²)
WIFI 2.412-2.462 GHz	359.7	3.26	20	0.233	1
BLE 2.402-2.480 GHz	10.9	3.26	20	0.007	1

Note: 1 mW/cm² from 1.310 Table 1.

RFID, WIFI and BLE can transmit simultaneously, so the maximum rate of MPE is,
 $0.0893/60.77 + 0.233/1 + 0.007/1 = 0.24 < 1.0$

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*****