

Report No.: FA9N1110



FCC RADIO EXPOSURE TEST REPORT

FCC ID : 2ACZPSA1000

Equipment : SHARP ALIGN

Brand Name : JACKCO

: SA-1000 Model Name

: Jackco Transnational Inc. Applicant

642 S. Duggan Ave. Azusa, CA.91702

Manufacturer : J-MEX Inc.

B2, 3F, No. 1, Li-Hsin 1st Road, SBIP Hsin Chu, 300

Taiwan

: 47 CFR Part 2.1091 Standard

The product was received on Nov. 13, 2019, and testing was started from Nov. 14, 2019 and completed on Nov. 19, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

TEL: 886-3-656-9065 FAX - 886-3-656-9085

Report Template No.: CB-A1_1 Ver1.0

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: Feb. 26, 2020 Issued Date

Report Version : 01

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History of this test report

Report No.: FA9N1110

Report No.	Version	Description	Issued Date
FA9N1110	01	Initial issue of report	Feb. 26, 2020

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Wendy Pan

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1 General Description

1.1 EUT General Information

RF General Information							
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type				
Bluetooth	2400-2483.5	2402-2478	LE: GFSK				

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1.2 Testing Location

	Testing Location								
	HWA YA ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.								
	TEL: 886-3-327-3456 FAX: 886-3-327-0973								
\boxtimes	JHUBEI	ADD :	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.						
		TEL :	886-3-656-9065 FAX : 886-3-656-9085						

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

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2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
0.3-3.0	614	1.63 (100)*		6
3.0-30	1842 / f	4.89 / f (900 / f)*		6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

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(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Power Density (S) Strength (H) (A/m) (mW/ cm²)		Averaging Time E ², H ² or S (minutes)
0.3-1.34	614	1.63 (100)*		30
1.34-30	824/f	2.19/f (180/f)*		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; *Plane-wave equivalent power density

2.2 PE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E (V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $Pd (W/m^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

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2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
2.4G;BT-LE	0.00	-2.83	-2.83	0.50	-2.33	0.00058	20	0.00012	1.00000

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Note: The above antenna gain was declared by manufacturer.



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