RF Exposure Evaluation Report

FCC ID	:	**XRAFB421**
Equipment	:	**Wireless Activity Tracker**
Brand Name	:	**Fitbit**
Model Name	:	**FB421**
Applicant	:	**Fitbit, Inc. 199 Fremont Street, 14th Floor, San Francisco, CA 94105 USA**
Manufacturer	:	**Fitbit, Inc. 199 Fremont Street, 14th Floor, San Francisco, CA 94105 USA**
Standard	:	**47 CFR Part 2.1093**

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1093 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No.TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

Approved by: Cona Huang / Deputy Manager

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

Table of Contents

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA120111-01	Rev. 01	Initial issue of report	May 31, 2021

1. General Information

1.1 Description of Device Under Test (DUT)

Product Feature & Specification	
FCC ID	XRAFB421
DUT Type	Wireless Activity Tracker
Brand Name	Fitbit
Model Name	FB421
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56MHz
Mode	Bluetooth LE NFC: ASK
DUT Stage	Identical Prototype

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

2. Maximum RF output power among production units

Mode	Maximum Output Power (dBm)
Bluetooth LE	8

3. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
8	6.31	5	2.48	1.99

Note:

1. Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

   [(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation
   - The result is rounded to one decimal place for comparison

Conclusion: Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 1.99 which is <= 3, SAR testing is not required.