

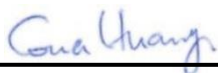
RF Exposure Evaluation Report

FCC ID : X8WBT840X
Equipment : Bluetooth 5.0 Module
Brand Name : Fanstel
Model Name : BT840X, BT840XE
Applicant : Fanstel Corporation, Taipei
10F-10, No. 79, Sec. 1, Hsin Tai Wu Rd.,
Hsi-Chih, New Taipei City 221 Taiwan
Manufacturer : Fanstel Corporation, Taipei
10F-10, No. 79, Sec. 1, Hsin Tai Wu Rd.,
Hsi-Chih, New Taipei City 221 Taiwan
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.

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



Approved by: Cona Huang / Deputy Manager



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5O0801-01	Rev. 01	Initial issue of report	Mar. 16, 2026

1. General Information

1.1 Description of Device Under Test (DUT)

Product Feature & Specification	
FCC ID	X8WBT840X
EUT Type	Bluetooth 5.0 Module
Brand Name	Fanstel
Model Name	BT840X, BT840XE
Wireless Technology and Frequency Range	Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	Bluetooth LE
HW Version	EV
SW Version	BT840X_Radio test
EUT Stage	Identical Prototype

Host information	
Brand Name	Zebra
Model Name	ZQ630

2. Maximum RF output power among production units

Mode	Maximum Average power(dBm)
Bluetooth LE	-5.16

3. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds	Limit of Thresholds	SAR Testing
-5.16	0.3	5	2.48	0.09	3	No

Note:

- 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
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, the SAR testing is not required for Bluetooth operation, and the device will be integrated into Zebra ZQ630 host, FCC ID: I28-WYSBHVDXP, Sporton Report No.: FA0D2423-06, the host highest Sim-Tx 1g SAR is 0.84W/kg plus Bluetooth estimated 1g SAR 0.4W/kg still < 1g SAR 1.6W/kg.