

# RF Exposure Evaluation Report

**APPLICANT** : Barking Labs Corp.  
**EQUIPMENT** : Fi Mini  
**BRAND NAME** : Fi  
**MODEL NAME** : M1  
**FCC ID** : 2ARXN-M1  
**STANDARD** : 47 CFR Part 2.1093

The product evaluation date was started from Aug. 12, 2025 and completed on Aug. 12, 2025. We, Sporton International Inc. (Kunshan), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, and pass the limit. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.



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Approved by: Si Zhang

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People's Republic of China***



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**Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA572104	Rev. 01	Initial issue of report.	Aug. 15, 2025



## **1. Administration Data**

### **1.1. Testing Laboratory**

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-KS	CN1257	314309

Applicant	
Company Name	Barking Labs Corp.
Address	419 Lafayette St., Floor 2, New York, NY 10003

Manufacturer	
Company Name	Barking Labs Corp.
Address	419 Lafayette St., Floor 2, New York, NY 10003

## 2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Fi Mini
Brand Name	Fi
Model Name	M1
FCC ID	2ARXN-M1
Wireless Technology and Frequency Range	LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 13 : 777 MHz ~ 787 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	LTE: QPSK / 16QAM WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth LE
HW Version	1.0
SW Version	v4.18
EUT Stage	Identical Prototype

**Remark:**

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

**Comments and Explanations:**

1. 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.
2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

**3. Maximum RF average output tune up power among production units****<LTE >**

Mode		Maximum Average Power (dBm)
LTE	Band 4	25.00
	Band 13	25.00

**<2.4GHz WLAN >**

Mode		Maximum Average Power (dBm)
2.4GHz	802.11b	17.50
	802.11g	17.00
	802.11n-HT20	17.00

**<Bluetooth>**

Mode		Maximum Average Power (dBm)
Bluetooth LE		18.00



#### 4. RF Exposure Evaluation

##### General 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*  $\leq 50$  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  $\leq 7.5$  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

Wireless Interface	LTE Cat M1 Band 4	LTE Cat M1 Band 13	Wi-Fi	Bluetooth
Calculated Frequency (MHz)	1755	787	2462	2480
Maximum power (dBm)	25.00	25.00	17.50	18.00
Maximum power (mW)	316.23	316.23	56.23	63.1
Most conservative transmission duty cycle	0.75%	0.75%	1.10%	0.21%
duty factor adjusted maximum output power (mW)	2.37	2.37	0.62	0.13
Separation distance (mm)	< 5mm	< 5mm	< 5mm	< 5mm
exclusion threshold	0.63	0.42	0.19	0.04
SAR testing required?	No	No	No	No
Estimated SAR	0.084	0.056	0.026	0.005

#### 5. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Fi Mini
1.	WWAN + Bluetooth	Yes

##### Note:

- According to the EUT characteristic, WLAN 2.4GHz and WWAN/Bluetooth can not transmit simultaneously.
- According to the EUT characteristic, WWAN and Bluetooth can transmit simultaneously.

1	2	1+2
WWAN	Bluetooth	Summed
Estimated 1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)
0.084	0.005	0.089

#### 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 and and complied with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for 1g SAR and 4.0 W/kg for extremity SAR) specified in FCC 47 CFR part 2 (2.1093).

-----THE END-----