

MPE Report

Report No.:STS2504103H02

Issued for

Nymi Inc.

82 Peter Street, Suite 500, Toronto, Ontario, M5V 2G5, Canada

Product Name: Nymi Band

Brand Name: Nymi

Model Name: Nymi Band 4.0

Series Model(s): N/A

FCC ID: 2ADLKBAND40

Test Standards: FCC 47CFR §2.1093

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TEST REPORT

Αp	plicant's	Name:	Nymi Inc.
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Manufacturer's Name.....: Nymi Inc.

Product Description

Product Name...... Nymi Band

Brand Name: Nymi

Model Name Nymi Band 4.0

Series Model(s)..... N/A

Test Standards FCC 47CFR §2.1093

447498 D04 Interim General RF Exposure Guidance v01

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Date of Test

Date of receipt of test item...... 16 Apr. 2025

Date (s) of performance of tests...... 16 Apr. 2025 ~ 14 May 2025

Date of Issue 14 May 2025

Test Result...... Pass

Testing Engineer : Aann 13 u

(Aaron Bu)

Technical Manager :

(Skylar Li)

Authorized Signatory: Turky

(Bovey Yang)



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Revision History

Rev.	Rev. Issue Date Report No.		Effect Page	Contents	
00	14 May 2025	STS2504103H02	ALL	Initial Issue	

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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Nymi Band				
Brand Name	Nymi				
Model Name	Nymi Band 4.0				
Series Model(s)	N/A				
Model Difference	N/A				
Product Description	The EUT is Nymi E Operation Frequency: Modulation Type: Antenna gain: Antenna Designation:	BLE:2402 – 2480 MHz NFC:13.56 MHz BLE:GFSK NFC:ASK BLE:2.5 dBi NFC:0 dBi BLE:SMD Chip Antenna NFC: Coil Antenna			
Power Rating	The other end of the	rinput with pogo pin magnetic charger cable. The charger cable with USB plug connector can std-certified wall adapter. Typ), 65mAh			
Adapter	N/A				
Battery	7 V ge: 4.4 V				
Hardware Version	V1				
Software Version	v0.0.4-13				

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



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2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

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(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R².

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For multiple RF sources: Multiple RF sources are exempt if:

- (A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- (B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.

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2.3 TEST RESULT

Tune up

RF Function	Tune Up Power (dBm)	Tune Up Power (dBm)
BLE	0±1	1

Mode	Detector	Power (dBuV/m) @3m	Power (dBm)	Turn up Power	
NFC	PK	65.52	-29.68	-30±1dBm	

Note: Power(dBm) = dBuV/m@3m -95.2

RF Function	Frequency (GHz)	Separation distance (cm)	Tune Up Power (dBm)	ANT Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Ratio	Result
BLE	2.48	0.5	1	2.5	3.5	1.35	1.365	2.717	0.502	Pass

RF Function	Frequency (GHz)	Separation distance (cm)	Tune Up Power (dBm)	Tune Up Power (mW)	Limit (mW)	Ratio	Result
NFC	0.01356	0.5	-29	0.001	1	0.001	Pass

Multiple transmission:

BLE+NFC=0.502+0.001=0.503<1

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements.

2. ERP = EIRP - 2.15

* * * * END OF THE REPORT * * * *