

RF Exposure Evaluation Report

Product : Nextiles Smart Module
Trade mark : NEXILES
Model/Type reference : Gen2.5-A
Serial Model : /
Report Number : EED39O80793605
FCC ID : 2A8GBNX-SM-GEN2
Date of Issue : September 28, 2022

Test Standards	Result
☒ 47 CFR Part 1.1307	PASS
☒ 47 CFR Part 1.1310	
☒ 47 CFR Part 2.1093(portable devices)	
☒ 447498 D01 General RF Exposure Guidance v06	

Prepared for:

Nextiles, Inc.**19 Morris Ave. Bldg. 128 Brooklyn, NY11205**

Prepared by:

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1	EED39O80793605	First report



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1. General Information

1.1. Client Information

Applicant:	Nextiles, Inc.
Address of Applicant:	19 Morris Ave. Bldg. 128 Brooklyn, NY11205
Manufacturer:	Ningbo High-tech Zone LADDER Science Co., Ltd
Address of Manufacturer:	3/F, Building #1, Zone B, No.428 Dongqing Road, High-tech Zone, Ningbo City, Zhejiang Province
Factory:	Ningbo High-tech Zone LADDER Science Co., Ltd
Address of Factory:	3/F, Building #1, Zone B, No.428 Dongqing Road, High-tech Zone, Ningbo City, Zhejiang Province

1.2. General Description of EUT

Product Name:	Nextiles Smart Module
Model No.(EUT):	Gen2.5-A
Trade Mark:	NEXTILES
EUT Supports Radios application:	Bluetooth V5.0 BLE
Power Supply:	DC 3.7V
Sample Received Date:	Jun 6, 2022
Sample tested Date:	Aug 3, 2022 to Aug 9, 2022

1.3. Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth LE5.0
Modulation Technique:	DSSS
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	portable device
Test Software of EUT:	putty TOOL (manufacturer declare)
Antenna Type:	FPC Antenna
Antenna Gain ^① :	0.34dBi
Test Voltage:	DC 3.7V

Note: 1 The antenna gain is provided by the client and we Centre Testing International (Suzhou) CO., LTD. test lab is not responsible for the accuracy of the antenna gain information.

2. SAR Evaluation

2.1. RF Exposure Compliance Requirement

2.1.1. Limits

According to KDB447498 D01: 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, 24 where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below
- If the test separation distance (antenna-user) is < 5 mm, 5 mm is used for excluded SAR calculation

2.1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.1.3. EUT RF Exposure Evaluation

Wireless Interface		Bluetooth
Tune-up Maximum power (dBm)		6
Tune-up Maximum rated power (mW)		3.98
Body	Antenna to user (mm)	5
	Frequency (GHz)	2.402
	Test result	1.23
	SAR exclusion threshold	3

Per KDB 447498 D01v06 exclusion thresholds is $1.23 < 3$, RF exposure evaluation is not required.

*** End of Report ***

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