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Report No.: 2404TW8602-U3
Report Version: 1.0
Issue Date: 2024-05-16

RF Exposure Evaluation Declaration

FCC ID: UV3NTW-17B
APPLICANT: AViTA Corporation
Application Type: Certification
Product: Touch Free Infrared Thermometer
Model No.: NT17B
Brand Name: AViTA
FCC Rule Part(s): Part 2.1093 (Portable)
Received Date: April 26, 2024

Reviewed By

:

Paddy Chen

(Paddy Chen)



Testing Laboratory
3261

Approved By

:

Chenz Ker

(Chenz Ker)

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2404TW8602-U3	1.0	Original Report	2024-05-16	

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	Touch Free Infrared Thermometer
Model No.	NT17B
Brand Name	AViTA
Bluetooth Specification	V4.2 BLE
Operating Frequency	2402~2480MHz
Modulation Type	GFSK

1.2. Antenna Description

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	AViTA	AViTA-BLEM01	Monopole	0dBi

2. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1. FCC Limits

According to FCC KDB 447498 Section 4.3 - General SAR test exclusion guidance

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}$$

where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
2. Power and distance are rounded to the nearest mW and mm before calculation
3. The result is rounded to one decimal place for comparison
4. The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

2.2. Test Result

Mode	Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	FCC SAR Test Exclusion Threshold (mW)
BLE	2402~2480	-2.19	0.60	3.0

So, this device can complies the SAR test exclusion.

_____ The End _____