



RF Exposure Assessment

Product Tag-50X Name and address of the Sonitor Technologies AS applicant Drammensveien 288 0273 Oslo, Norway Sonitor Technologies AS Name and address of the Drammensveien 288 manufacturer 0273 Oslo, Norway Model Tag-M50X Rating Internal battery: 3V **Trademark** Sonitor **Additional information** Bluetooth Low Energy 2402-2480 MHz Evaluated according to FCC Part 1.1307(b) RF Exposure Assessment FCC KDB 447498 D01 v06 General RF Exposure Guidance Order number PRJ0072858 Issue date 2025-09-01 Name and address of the testing laboratory CAB Number: Nemko Scandinavia AS FCC: NO0001 Instituttveien 6 ISED: NO0470 2007 Kjeller, Norway ISED No: 2040D-1 www.nemko.com An accredited technical test executed under the Norwegian accreditation scheme Prepared by [Jan Gunnar Eriksen] Prepared by [] This report was originally distributed electronically with digital signatures. For more information, please contact Nemko Scandinavia AS.

Template version: B



Revision history

Exposure Assessment FCC Part 1.1307 REP088037 FCC ID: 2AD7T11124102301

IC: 20330-11124102301

Revision	Date	Comment	Sign
Α	2025-09-11	First Edition	JGER

GENERAL REMARKS

This report applies only to the sample(s) tested. It is the manufacturer's responsibility to ensure the additional production units of this product are manufactured with identical electrical and mechanical components. The manufacturer is solely responsible for any modifications to the product that could result in non-compliance with the relevant regulations.

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Exposure Evaluation

1.1 **EUT Technical Information**

Product	Tag used in real time location systems
Manufacturer	Sonitor Technologies AS
Model	Tag-M500, Tag-M501, Tag-M503
FCC ID	2AD7T11124102301
Hardware version	-
Software version	-
Frequency Range	2402 – 2480 MHz
Type of Power Supply	Internal Battery, 3V
Antenna Type	Integral
Number of Antennas	1
Output Power	2.9 mW
Type of Portable Device	Tag for communication with a gateway on Bluetooth Low Energy
Reference to RF Test Report	REP088039

1.2 **Evaluation Summary**

The EUT has been evaluated and found to be exempt from SAR Evaluation according to the Exemption Criteria in KDB 447498 D01 General RF Exposure Guidance v06, Clause 4.3 a):

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

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · $[\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, 30 where

• f(GHz) is the RF channel transmit frequency in GHz

Determination of Exemption for Single RF Sources							
Output Power, Conducted	@ 2402 MHz	2.9	mW	*)			
Output Power, Radiated	@ 2440 MHz	2.3	mW	**)			
Separation Distance d (mm)(valid for d ≤40 cm)	5	mm					
Frequency f (GHz) (valid for f≥300MHz and f≤6 GHz)	f (GHz)	2.48	GHz				
Formula above (2.9 / 5.0 x SQRT(2.48) [mW / mm x SQRT (GHz)]	0.9	≤ 3.0					
Test Exclusion Threshold for 1-g SAR	3.0						
Verdict:	EXEMP	TED					

Output Power and Field Strength values are from Nemko Test Report REP088039.

The evaluation is valid at the declared separation distance of 5mm.

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NOTE: *) Maximum measured value

**) Calculated from measured field strength using the method described in ANSI C63.10-2013 Annex G @ 3 meters distance