

FCC SAR Exclusion Report

Product name : MONIMOTO 7
Applicant : UAB MONIMOTO
FCC ID : 2AU3KMM7E1

Test report No. : 210200012 002 FCC RF exposure



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Laboratory information

Accreditation

Telefication complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2017. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number L021 and is granted on 30 November 1990 by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

Telefication is designated by the FCC as an Accredited Test Firm for compliance testing of equipment subject to Certification under Parts 15 & 18. The Designation number is: NL0001.

Telefication is a Wireless Device Testing laboratory recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

The Industry Canada registration number for the 3 meter test chamber of Telefication is: 4173A-1.

Telefication is a registered Conformity Assessment body (CAB) under the Japan-EC MRA (Agreement on Mutual Recognition between Japan and the European Community). The registration number is: 201.

Documentation

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at Telefication Netherlands.

Testing Location

Test Site	Kiwa Telefication BV
Test Site location	Wilmersdorf 50 7327 AC Apeldoorn The Netherlands Tel. +31 88998 3393
Test Site FCC	NL0001



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Revision History

Version	Date	Remarks	By
v1.00	08-06-2021	Release version	K.K.



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1 General Description

1.1 Applicant

Client name:	UAB Monimoto
Address	Sauletekio al. 15 L10224, Vilnius, Lithuania
Telephone:	+370 67266478
E-mail:	info@monimoto.com
Contact name:	Rolandas Dranseika

1.2 Manufacturer

Manufacturer name:	UAB Monimoto
Address:	Sauletekio al. 15 L10224, Vilnius, Lithuania
Telephone:	+370 67266478
E-mail:	info@monimoto.com
Contact name:	Rolandas Dranseika

1.3 Tested Equipment Under Test (EUT)

Product name:	MONIMOTO 7
Brand name:	UAB MONIMOTO
Product type:	GPS tracker
FCC ID:	2AU3KMM7E1
Software version:	2.0.0.0
Hardware version:	04

1.4 SAR Measurement Evaluation

1.4.1 Maximum Output Power

The maximum conducted power is shown as below.

Mode	Output power (dBm)
Bluetooth LE	-8.24
LTE	23

BLE value taken from 210200012 001 Telefication report and LTE value taken from the datasheet.

1.4.2 SAR Testing Exclusions, Mobile use

Calculation method of RF Safety Distance:

$$PD = \frac{P_{out} * G}{4\pi r^2}$$

Where:

PD = Power Density in mW/cm^2

Pout = Output power in mW

G = Gain of antenna

R = Distance between observation point and centre of the radiator in cm

Antenna

Technology	BLE	LTE
Antenna type	SMD Antenna	SMD Antenna
Antenna gain	4.9dBi	5dBi

Calculation results

Technology	Frequency (MHz)	Max power (mW)	Antenna gain (numeric)	Distance (cm)	Power density (mW/cm ²)	Limit (mW/cm ²)
BLE	2440	0.15	3.09	20	0.000092	1
LTE	835	199.5	3.16	20	0.125	0.55

1.5 Summary

Since the SAR testing for all device orientations apply SAR test exclusion per KDB 447498, SAR testing for this device is not required.