

RF Exposure Evaluation Report

FCC ID : 2AXXJMG-MAM1-1
Equipment : Makalu Wireless Dongle
Brand Name : Makalu
Model Name : MG-MAM1-1-DONGLE
Applicant : 360 Service Agency GmbH
Rosastrasse 4, 79098 Freiburg, Germany
Manufacturer : 360 Service Agency GmbH
Rosastrasse 4, 79098 Freiburg, Germany
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1093

The product was received on Mar. 16, 2021, and testing was started from Mar. 16, 2021 and completed on Mar. 24, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB447498 D01 General RF Exposure Guidance v06 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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Photographs of EUT V01

1. General Description

1.1 Information

1.1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
SRD 2.4GHz	2400-2483.5	2406-2478	GFSK

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Makalu	MG-MAM1-1-DONGLE	PCB	N/A	-1.8788

Note 1: The EUT has one antenna.

For SRD 2.4GHz function:

For SRD 2.4G mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

1.2 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory		
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)	
	TEL: 886-3-327-3456	FAX: 886-3-327-0973
Test site Designation No. TW1190 with FCC.		

2. RF Exposure Evaluation

2.1 Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2 SAR evaluation

- Per FCC KDB 447498 D01 v06, 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
 - $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

Max. Power (dBm)	Tolerance (dB)	Tune-up Max. Power (dBm) (mW)		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
1.00	0.5	1.5	1.41	5	2.406	0.44

- Per FCC KDB 447498 D01 v06 exclusion thresholds is $0.44 < 7.5$, RF exposure evaluation is not required.

————THE END————