

FCC RF EXPOSURE REPORT

CERTIFICATION TEST REPORT

For

Smart Wi-Fi BLE Module

MODEL NUMBER: MR2EHKB

FCC ID: 2AMUU-MWA05

REPORT NUMBER: 4790702536-RF-1

ISSUE DATE: April 23, 2023

Prepared for

Chengdu Meross Technology Co., Ltd.

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 23, 2023	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Chengdu Meross Technology Co., Ltd.

Address: Floor 3, Building A5, Shijicheng Road No 1129, Gaoxin, Free Trade

Trial Zone, Chengdu, Sichuan, China.

Manufacturer Information

Company Name: Chengdu Meross Technology Co., Ltd.

Address: Floor 3, Building A5, Shijicheng Road No 1129, Gaoxin, Free Trade

Trial Zone, Chengdu, Sichuan, China.

EUT Information

Operations Manager

EUT Name: Smart Wi-Fi BLE Module

Model: MR2EHKB
Sample Received Date: April 6, 2023
Sample Status: Normal
Sample ID: 5766640

Date of Tested: April 6, 2023 to April 20, 2023

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
FCC 47CFR§2.1091	PASS			
KDB 447498 D01V06				

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Delcaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
Approditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Accreditation Certificate	has been registered and fully described in a report filed with ISED.
Certificate	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.



4. DESCRIPTION OF EUT

EUT Name	Smart Wi-Fi BLE Module		
Model	MR2EHKB		
Frequency Range:	2412 MHz to 2462 MHz		
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)		
Radio Technology:	IEEE 802.11b/g/n-HT20		
Normal Test Voltage:	DC 5 V		



5. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ², H ² or S (Minutes)
0.3 1.34	614	1.63	(100)*	30
1.34 30	824/f	2.19/f	(180/f ²)*	30
30 300	27.5	0.073	0.2	30
300 1500			f/1500	30
1500 100,000			1.0	30

CALCULATION METHOD

S=PG/4πR²

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna



CALCULATED RESULTS

Worst Case					
Mode	Max. Tune Up Power	Antenna Gain	Power Density	Power Density Limit	Test Result
	dBm	dBi	mW/cm2	mW/cm2	
WIFI 2.4G	16	1.95	0.01241	1.0	Complies

Note:

- 1. The Power comes from operation description.
- 2. The minimum separation distance of the device is greater than 20 cm.
- 3. Calculate by WORST-CASE mode.

Therefor the maximum calculations of above situations are less than the "1" limit.

END OF REPORT