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# RF Exposure Evaluation Report

**Report No.:** CQASZ20250802070E-03

**Applicant:** eMoMo Technology (Zhejiang) Co., LTD

**Address of Applicant:** Building 2, South of Yuedu East Road and East of Tianhuangping North Road, Dipu Street, Anji County, Huzhou City, Zhejiang Province, 313300, China.

**Equipment Under Test (EUT):**

**EUT Name:** Remo Audio 2

**Model No.:** Remo2, Remo2.15

**Test Model No.:** Remo2

**Brand Name:** eMoMo

**FCC ID:** 2BHM7-REMO2

**Standards:** 47 CFR Part 1.1307

47 CFR Part 1.1310

447498 D04 Interim General RF Exposure Guidance v01

**Date of Receipt:** 2025-08-29

**Date of Test:** 2025-08-29 to 2025-09-03

**Date of Issue:** 2025-9-5

**Test Result:** PASS\*

\*In the configuration tested, the EUT complied with the standards specified above

**Tested By:**

lewis zhou

( Lewis Zhou )

**Reviewed By:**

Timo Lei

( Timo Lei )

**Approved By:**

Jack Ai

( Jack Ai )



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250802070E-03	Rev.01	Initial report	2025-9-5

## 2 Contents

	Page
<b>1 VERSION</b> .....	2
<b>2 CONTENTS</b> .....	3
.....	3
<b>3 GENERAL INFORMATION</b> .....	4
3.1 CLIENT INFORMATION .....	4
3.2 GENERAL DESCRIPTION OF EUT .....	4
3.3 GENERAL DESCRIPTION OF BT CLASSIC .....	4
3.4 GENERAL DESCRIPTION OF BLE .....	5
<b>4 MPE EVALUATION</b> .....	6
4.1 RF EXPOSURE COMPLIANCE REQUIREMENT .....	6
4.1.1 <i>Limits</i> .....	6
4.1.2 <i>Test Procedure</i> .....	6
4.1.3 <i>EUT RF Exposure</i> .....	7

### 3 General Information

#### 3.1 Client Information

Applicant:	eMoMo Technology (Zhejiang) Co., LTD
Address of Applicant:	Building 2, South of Yuedu East Road and East of Tianhuangping North Road, Dipu Street, Anji County, Huzhou City, Zhejiang Province, 313300, China.
Manufacturer:	eMoMo Technology (Zhejiang) Co., LTD
Address of Manufacturer:	Building 2, South of Yuedu East Road and East of Tianhuangping North Road, Dipu Street, Anji County, Huzhou City, Zhejiang Province, 313300, China.
Factory:	eMoMo Technology (Zhejiang) Co., LTD
Address of Factory:	Building 2, South of Yuedu East Road and East of Tianhuangping North Road, Dipu Street, Anji County, Huzhou City, Zhejiang Province, 313300, China.

#### 3.2 General Description of EUT

Product Name:	Remo Audio 2
Model No.:	Remo2, Remo2.15
Test Model No.:	Remo2
Trade Mark:	eMoMo
Software Version:	V1.8
Hardware Version:	V1.8
EUT Power Supply:	<p>Power supply DC12V from apadter</p> <p>Adapter:</p> <p>Model:R241-1202000U</p> <p>Input:100-240V~50/60Hz 1.5A</p> <p>Output:12V 2000mA</p>

#### 3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	3.38dBi
Cable loss:	1.0 dB

### 3.4 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	5.0
Modulation Type:	GFSK
Number of Channel:	40
Transfer Rate:	1Mbps
Sample Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	3.38dBi
Cable loss:	1.0 dB

**Note:**

The above parameters will directly affect the test results. The information is provided by the applicant.

## 4 MPE Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP<sub>20cm</sub> in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave Dipole).

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

#### 4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

### 4.1.3 EUT RF Exposure

#### 1) For BT Classic

Output Power Into Antenna & RF Exposure Evaluation Distance:

#### Measurement Data

GFSK mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	2.13	-0.02	0±1	1	1.26
Middle(2441MHz)	2.30	0.15	0.5±1	1.5	1.41
Highest(2480MHz)	1.24	-0.91	-0.5±1	0.5	1.12
π/4DQPSK mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	2.57	0.42	0.5±1	1.5	1.41
Middle(2441MHz)	2.42	0.27	0.5±1	1.5	1.41
Highest(2480MHz)	1.51	-0.64	-0.5±1	0.5	1.12

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250802070E-02 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

**2) For BLE**

Output Power Into Antenna &amp; RF Exposure Evaluation Distance:

**Measurement Data**

Test channel	GFSK mode(1Mbps)				Maximum tune-up Power	
	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	(dBm)		
Lowest(2402MHz)	4.26	2.11	2.5±1	3.5	2.24	
Middle(2440MHz)	4.41	2.26	2.5±1	3.5	2.24	
Highest(2480MHz)	3.44	1.29	1.5±1	2.5	1.78	

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250802070E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

\*\*\* END OF REPORT \*\*\*