

# RF Exposure Evaluation Report

**Product** : AM HATSU  
**Trade mark** : Angry Miao  
**Model/Type reference** : AM05  
**Serial Number** : N/A  
**Report Number** : EED32081791702  
**FCC ID** : 2A3FY-AM05  
**Date of Issue** : Dec. 15, 2022  
**Test Standards** : 47 CFR Part 1.1307  
47 CFR Part 1.1310  
47 CFR Part 2.1093  
447498 D04 Interim General RF  
Exposure Guidance v01  
**Test result** : PASS

Prepared for:

**Angry Miao Technology Co., Limited**  
2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan  
Town, Xiangzhou District, Zhuhai, China

Prepared by:

**Centre Testing International Group Co., Ltd.**  
Hongwei Industrial Zone, Bao'an 70 District,  
Shenzhen, Guangdong, China  
**TEL: +86-755-3368 3668**  
**FAX: +86-755-3368 3385**

Compiled by:

*Martin Lee*

*Aaron Ma*  
Martin Lee

Reviewed by:

*Tom Chen*

Tom Chen

Approved by:

Aaron Ma

Date:

Dec. 15, 2022



Check No.: 2807111122

## 1 Version

Version No.	Date	Description
00	Dec. 15, 2022	Original

## 2 Contents

	Page
<b>1 VERSION</b> .....	<b>2</b>
<b>2 CONTENTS</b> .....	<b>3</b>
<b>3 GENERAL INFORMATION</b> .....	<b>4</b>
3.1 CLIENT INFORMATION .....	4
3.2 GENERAL DESCRIPTION OF EUT .....	4
3.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD .....	4
3.4 TEST LOCATION .....	5
3.5 DEVIATION FROM STANDARDS .....	5
3.6 ABNORMALITIES FROM STANDARD CONDITIONS .....	5
3.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....	5
<b>4 SAR EVALUATION</b> .....	<b>6</b>
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 Evaluation</i> .....	7

### 3 General Information

#### 3.1 Client Information

Applicant:	Angry Miao Technology Co., Limited
Address of Applicant:	2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town, Xiangzhou District, Zhuhai, China
Manufacturer:	Angry Miao Technology Co., Limited
Address of Manufacturer:	2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town, Xiangzhou District, Zhuhai, China

#### 3.2 General Description of EUT

Product Name:	AM HATSU
Model No.(EUT):	AM05
Trade Mark:	Angry Miao
Device type:	Portable

#### 3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	DTM.exe	
Antenna Type:	PIFA Antenna	
Antenna Gain:	3.85dBi	
Power Supply:	USB port:	DC 5V
	Battery:	DC 3.8V
Test Voltage:	DC 3.8V	
Sample Received Date:	Nov. 11, 2022	
Sample tested Date:	Nov. 11, 2022 to Dec. 13, 2022	
Remark:	Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.	

### 3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

### 3.5 Deviation from Standards

None.

### 3.6 Abnormalities from Standard Conditions

None.

### 3.7 Other Information Requested by the Customer

None.

## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

#### 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 Evaluation

For Stand alone:

For BLE

Frequency (MHz)	Separation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.5	1.37	3.85	5.22	3.07	2.028	2.788	PASS

**Note:**

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15
- ③ Only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*