

RF Exposure Evaluation Report

Product : AM 65 LESS
Trade mark : Angry Miao
Model/Type reference : AM12
Serial Number : N/A
Report Number : EED32O81956602
FCC ID : 2A3FY-AM12
Date of Issue : Dec. 26, 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:

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2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone,
Tangjiawan Town, Xiangzhou District, Zhuhai, China

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1 Version

Version No.	Date	Description
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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 65 LESS
Model No.(EUT):	AM12
Trade Mark:	Angry Miao
Device type:	Fix Location

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	nRF_DTM
Antenna Type:	PIFA Antenna
Antenna Gain:	1.47dBi
Power Supply:	DC 5V 1.8A (By USB Port) DC 3.8V (Battery)
Test Voltage:	AC 120V
Sample Received Date:	Dec. 07, 2022
Sample tested Date:	Dec. 07, 2022 to Dec. 19, 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	3.09	1.47	4.56	2.41	1.742	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 ***