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RF Exposure Evaluation Report

Product : AM Relic 80

Trade mark : Angry Miao

Model/Type reference : AM21 Serial Number : N/A

Report Number : EED32P80965003

FCC ID : 2A3FY-AM21

Date of Issue : Sep. 08, 2023

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 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:

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

3.2 General Description of EUT

Model No.(EUT):	AM21			
110doi 110.(E01).	· ····			
Trade Mark:	Angry Miao			
Device type:	Portable	(3)	(3)	
Power Supply:	Battery DC 3.8V	(6.72)	(6.53)	
Test Voltage:	DC 3.8V			
Sample Received Date:	Aug. 22, 2023			
Sample tested Date:	Aug. 22, 2023 to Aug. 30, 2023			

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.

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz		
Modulation Type:	GFSK	(0,)	(0,
Transfer Rate:	⊠1Mbps ⊠2Mbps		
Number of Channel:	40		
Antenna Type:	PIFA Antenna		
Antenna Gain:	2.0dBi		(6,7)
Max Conducted Peak	-3.11dBm		
Output Power:	The Max Conducted Peak Out	put Power data refer to the ı	report EED32P80965001













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3.4 General Description of 2.4G

Operation Frequency:	2402MHz~2480MHz				
Modulation Type:	GFSK				
Number of Channel:	23				
Antenna Type:	PIFA Antenna	(6,	(0,)		
Antenna Gain:	2.0dBi				
Max Conducted Peak	-3.29dBm				
Output Power:	The Max Conducted Peak Output Po	ower data refer to the report	EED32P80965002		

3.5 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

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

3.8 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 Pth (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). Pth is given by Formula

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

where

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

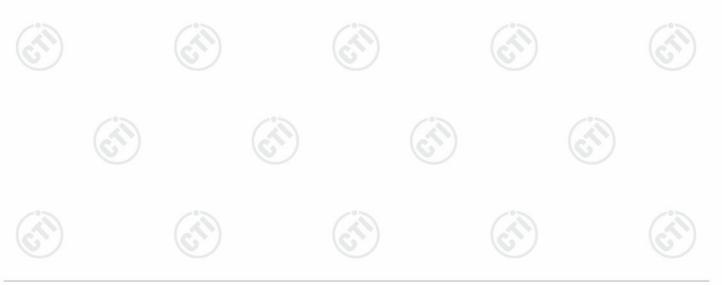
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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





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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
2480	0.5	-3.11	2.0	-1.11	-3.26	0.472	2.717	PASS

For 2.4G

24		(3)	Max.	(3		/	30		
	Frequency (MHz)	Separation distance (cm)	Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
	2480	0.5	-3.29	2.0	-1.29	-3.44	0.453	2.717	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=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 ***