

Page 1 of 8 Report No.: EED32N80339002

1

RF Exposure Evaluation Report

CD Patterned Wireless Headphones **Product**

Trade mark MINISO Model/Type reference TM-053

Serial Number N/A

Report Number EED32N80339002

FCC ID 2ART4-TM-053 **Date of Issue**

Jun. 25, 2021

47 CFR Part 1.1307 47 CFR Part 1.1093

Test Standards KDB447498D01 General RF

Exposure Guidance v06

PASS **Test result**

Prepared for:

MINISO Corporation

Room 2501, No. 486 Heye Square, Kangwang Middle Road, Liwan District, Guangzhou, Guangdong, China

Prepared by:

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Reviewed by:

Aaron Ma

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Date:

Jun. 25, 2021

David Wang

Check No.:7325100521



















Page 2 of 8

2 Version

Version No.	Date	6	Description	
00	Jun. 25, 2021	19	Original	
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3 Contents



							Page
1 COVER PA	AGE	•••••		•••••		•••••	 1
2 VERSION.							 2
3 CONTENT	S		•••••				 3
4 GENERAL	. INFORM	ATION	•••••		•••••		 4
4.2 GENER 4.3 PRODU 4.4 TEST L 4.5 DEVIA 4.6 ABNOR	RAL DESCR UCT SPECIF LOCATION TION FROM RMALITIES F	EIPTION OF E FICATION SUB STANDARDS FROM STAND	UT BJECTIVE TO T S BARD CONDITION	THIS STANDARE)		
5.1.1 S	tandard R	equirement.		т			 6
PHOTOGRA	APHS OF I	EUT CONS	TRUCTIONA	L DETAILS		•••••	 8



Report No.: EED32N80339002 Page 4 of 8

General Information

4.1 Client Information

Applicant:	MINISO Corporation
Address of Applicant:	Room 2501, No. 486 Heye Square, Kangwang Middle Road, Liwan District, Guangzhou, Guangdong, China
Manufacturer:	Shenzhen Qiwei Electronic Technology Co., Ltd
Address of Manufacturer:	16 / F, block C, Xixiang Central Avenue, Bao'an District, Shenzhen
Factory:	Dongguan China ETECH GROUPS CO.,LTD.
Address of Factory:	Room 501,Building 6, No.2 Hong Jin Road, Li Zhou Jiao Village, Hongmei Town,Dongguan City

4.2 General Description of EUT

Product Name:	CD Patterned Wireless Headphones	
Model No.(EUT):	TM-053	
Trade Mark:	MINISO	
EUT Supports Radios application:	BT 5.1(2.1+EDR)	(c)

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz			
Modulation Type:	GFSK, π/4DQPSK			
Test Software of EUT:	FCC_assist_1.0.1.2			
Test Power Grade:	Default			
Antenna Type:	PCB antenna			
Antenna Gain:	5.1dBi			
Power Supply:	DC 3.7V			
May Canduated Deals	BT: -7.78dBm			
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32N80339001			
Sample Received Date:	May. 14, 2021			
Sample tested Date:	May. 17, 2021 to May. 27, 2021			

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. Note: There is only one model: TM-053, but it has three colors (black, white, and green), only the black EUT has been tested.



















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4.4 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

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.









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Page 5 of 8











5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

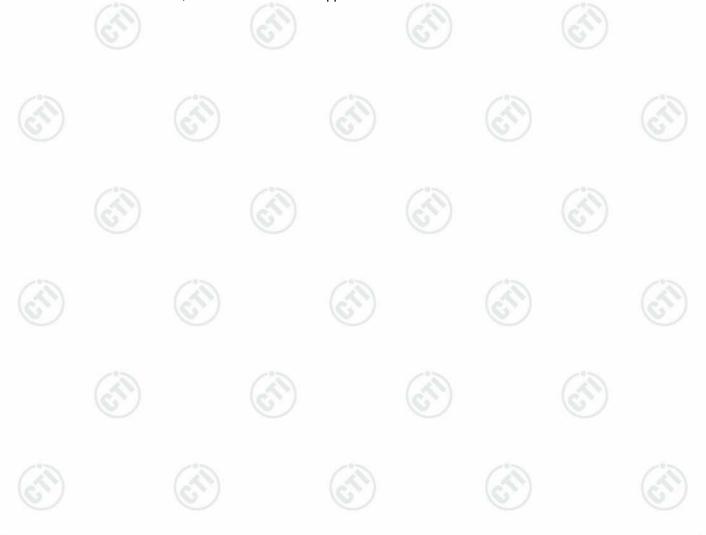
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion



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Page 7 of 8

5.1.2 EUT RF Exposure

The tune-up power is -8.0 dBm +/- 0.5dB, therefore the highest tune-up power is

-7.5 dBm (0.18 mW) @ 2480 MHz

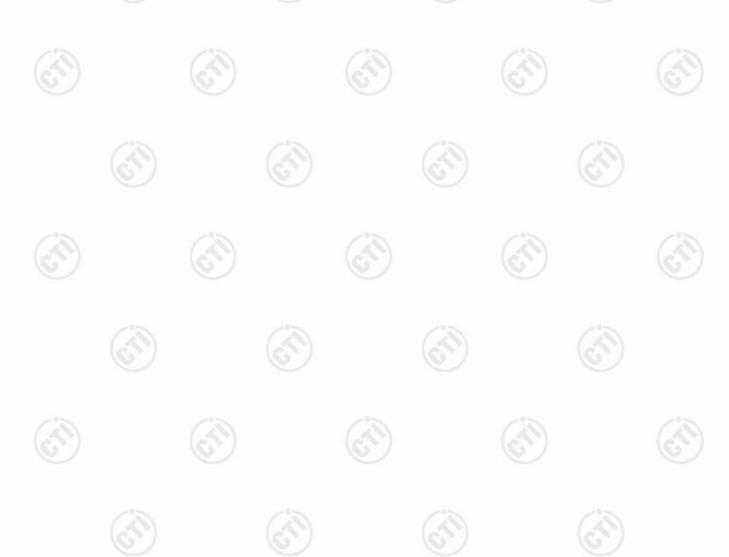
When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

0.18mW / 5mm) * (2.480GHz ^0.5)= 0.1

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [√f(GHz)] = 0.1< 3.0

Therefore, standalone SAR measurements are not required for both head and body



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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N80339001 for EUT external and internal photos.

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