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RF Exposure Evaluation Report

Product : CD Patterned Wireless Headphones
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
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1093
KDB447498D01 General RF
Exposure Guidance v06
Test result : PASS

Prepared for:

MINISO Corporation

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Prepared by:

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2 Version

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4 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)

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK
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
Max Conducted Peak Output Power:	BT: -7.78dBm 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.	

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.

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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 ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

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,

$0.18\text{mW} / 5\text{mm}) * (2.480\text{GHz} ^{0.5}) = 0.1$

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

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

PHOTOGRAPHS OF EUT Constructional Details

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

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 ***