RF Exposure Evaluation Report

Product	:	Sport Smart Bracelet
Trade mark	:	MINISO
Model/Type reference	:	M4
Serial Number	:	N/A
Report Number	:	EED32O80431801
FCC ID	:	2ART4-M4
Date of Issue	:	May 13, 2022
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Test result	:	PASS

Prepared for:

MINISO Corporation
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Prepared by:

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Date: May 13, 2022

Check No.:1959180322

2 Version

Version No.	Date	Description
00	May 13, 2022	Original

3 Contents

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 Kingstar Industrial Co.,Ltd
Address of Manufacturer:	Room 210, Minle Technology Building, Minle Industrial Park, Longhua Shenzhen China
Factory:	Shenzhen Kingstar Industrial Co.,Ltd
Address of Factory:	Room 210, Minle Technology Building, Minle Industrial Park, Longhua Shenzhen China

4.2 General Description of EUT

Product Name:	Sport Smart Bracelet
Model No.(EUT):	M4
Trade Mark:	MINISO

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	EMI_Test_Tool
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi
Power Supply:	DC 3.7V
Max Conducted Peak Output Power:	-2dBm
	The Max Conducted Peak Output Power data refer to the report EED32O80431801
Sample Received Date:	Mar. 25, 2022
Sample tested Date:	Mar. 25, 2022 to Apr. 05, 2022

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.

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.

5.1.2 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)] · [√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 calculation[17]
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

5.1.3 EUT RF Exposure

1) For Bluetooth LE

Measurement Data:

BLE 1M:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-2.8	-2±1	-1	0.794
Middle(2440MHz)	-2.33	-2±1	-1	0.794
Highest(2480MHz)	-2	-2±1	-1	0.794

BLE 2M:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-2.81	-2±1	-1	0.794
Middle(2440MHz)	-2.34	-2±1	-1	0.794
Highest(2480MHz)	-2.01	-2±1	-1	0.794

Worst case is BLE 1M: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-2.8	-2±1	-1	0.794	0.250	3.0
Middle (2441MHz)	-2.33	-2±1	-1	0.794	0.250	
Highest (2480MHz)	-2	-2±1	-1	0.794	0.250	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80431801.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80431801 for EUT external and internal photos.

*** End of Report ***