RF Exposure Evaluation Report

Product	:	Foldable Cat Ear Wireless Headset with LED Light
Trade mark	:	MINISO
Model/Type reference	:	H06
Serial Number	:	N/A
Report Number	:	EED32O80238303
FCC ID	:	2ART4-H06
Date of Issue	:	Apr. 01, 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

Room 2501, 25th floor, No.486 Heye Square, Kangwang Middle Road, Liwan District, Guangzhou, Guangdong, China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Compiled by:	Frazer Li	Reviewed by:	Aaron Ma
	Frazer Li		Aaron Ma
Approved by:	David Wang	Date:	Apr. 01, 2022
	David Wang		

Check No.: 9302230222

1 Version

Version No.	Date	Description
00	Apr. 01, 2022	Original

2 Contents

3 General Information

3.1 Client Information

Applicant:	MINISO Corporation
Address of Applicant:	Room 2501, 25th floor, No.486 Heye Square, Kangwang Middle Road, Liwan District, Guangzhou, Guangdong, China
Manufacturer:	KYM Technology Co., Ltd
Address of Manufacturer:	1001-01, No.1, Kanghuai Industrial Park, No.60 Ping'an Road, Dafu Community, Guanlan Street, Longhua District, Shenzhen, China
Factory:	KYM Technology Co., Ltd
Address of Factory:	1001-01, No.1, Kanghuai Industrial Park, No.60 Ping'an Road, Dafu Community, Guanlan Street, Longhua District, Shenzhen, China

3.2 General Description of EUT

Product Name:	Foldable Cat Ear Wireless Headset with LED Light	
Mode No.:	H06	
Trade mark:	MINISO	
EUT Supports Radios application:	Bluetooth 5.1 dual mode: 2402-2480MHz	
Bluetooth Version:	V5.1	
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location	
Power Supply:	Battery:	DC 3.7V
	USB Port:	DC 5.0V
Test Voltage:	DC 3.7V	
Sample Received Date:	Feb. 24, 2022	
Sample tested Date:	Feb. 23, 2022 to Mar. 16, 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.

Model No.: H06

This product comes in two colors, one is blue and the other is pink.Only the blue was tested, since the electrical circuit design, layout, components used and internal wiring were identical for them, with difference being color of appearance.

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	☒ 1Mbps ☐ 2Mbps
Number of Channel:	40
Antenna Type:	Internal Antenna
Antenna Gain:	0 dBi

3.4 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	Internal Antenna
Antenna Gain:	0 dBi

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 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)] · [√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

4.1.2 EUT RF Exposure

1) For BLE

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.57	-2.0±1	-1.0	0.794
Middle(2440MHz)	-0.8	-1.5±1	-0.5	0.891
Highest(2480MHz)	**-0.09**	-1.0±1	0	1.000

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.57	-2.0±1	-1.0	0.794	0.246	3.0
Middle (2440MHz)	-0.8	-1.5±1	-0.5	0.891	0.278	
Highest (2480MHz)	**-0.09**	-1.0±1	0	1.000	0.315	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80238301.

2) For BT Classic

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.52	-2.50±1	-1.50	0.708
Middle(2441MHz)	-0.67	-1.50±1	-0.50	0.891
Highest(2480MHz)	-0.05	-1.00±1	0	1.000
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.74	-1.50±1	-0.50	0.891
Middle(2441MHz)	0	-1.0±1	0	1.000
Highest(2480MHz)	**0.73**	0±1	1.00	1.259

Worst case: π/4DQPSK mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-0.74	-1.50±1	-0.50	0.891	0.276	3.0
Middle (2441MHz)	0	-1.0±1	0	1.000	0.312	
Highest (2480MHz)	**0.73**	0±1	1.00	1.259	0.397	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80238302.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80238301 for EUT external and internal photos.

*** End of Report ***