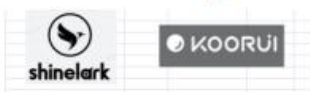


Test Report No.:
FCC2021-0039-EMF

Test Report

EUT : True Wireless earphones
MODEL : Air05
BRAND NAME : 
APPLICANT : Shenzhen Koorui technology Co., Ltd.
Classification Of Test : N/A

CVC Testing Technology Co., Ltd.



CVC Testing Technology Co., Ltd.

Test Report No.: FCC2021-0039-EMF

Page 2 of 9

Client	Name : Shenzhen Koorui technology Co., Ltd. Address : 3rd Floor, Building A1, No. 663, Bulong Road,Dafapu Community, Bantian Street,Longgang District, ShenZhen Guangdong P.R. China		
Manufacturer	Name : Shenzhen Koorui technology Co., Ltd. Address : 3rd Floor, Building A1, No. 663, Bulong Road,Dafapu Community, Bantian Street,Longgang District, ShenZhen Guangdong P.R. China		
Factor	Name : Shenzhen fuchang technology Co., Ltd. Address : No.602,6th Floor,Building A,Yongshenhui Industrial Park,NO.3 Chuangye Road,Shilongzi Industrial Zone,Shiyan Street, Shenzhen City		
Equipment Under Test	Name : True Wireless earphones Model/Type: Air05   Trade mark : Serial NO.:N/A Sampe NO.:3-1		
Date of Receipt.	2021.12.01	Date of Testing	2021.12.01~2021.12.16
Test Specification		Test Result	
FCC Part 2 (Section 2.1093), KDB 447498 D01 IEEE C95.1		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Issue Date: 2021.12.27		
Tested by:  Xu ZhenFei Name Signature	Reviewed by:  Liu YongHai Name Signature	Approved by:  Chen HuaWen Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

LTC-R-7069-FCC MPE-A0



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2021-0039-EMF	Original release	2021.12.27



1. GERTIFICATION

FCC ID	2A23CAIR05
PRODUCT	True Wireless earphones
BRAND	
MODEL	Air05
ADDITIONAL MODEL	N/A
APPLICANT	Shenzhen Koorui technology Co., Ltd.
STANDARDS	FCC Part 2 (Section 2.1093)
	KDB 447498 D01
	IEEE C95.1

Note: This product is wireless earphone, divided into left ear and right ear.



2. RF EXPOSURE LIMIT

2.1 RF EXPOSURE

2.1.1 RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, 16 where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- 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.

2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:

a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · ($f(\text{MHz})/150$)] mW, at 100 MHz to 1500 MHz

b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.

a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ for test separation distances > 50 mm and < 200 mm.

b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances ≤ 50 mm.

c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

2.1.2 Classification

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as Portable Device.

2.1.3 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

Frequency Band	Antenna Gain (dBi)	Antenna Type
BT(GFSK)	2.67	Chip Antenna
BT($\pi/4$ DQPSK)	2.67	Chip Antenna
BT(8DPSK)	2.67	Chip Antenna

2.1.4 calculation result of maximum conducted AV power

The tuned conducted AV Power (declared by client)

Left

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT(GFSK)	2402-2480MHz	2	+1	1	3
BT($\pi/4$ DQPSK)	2402-2480MHz	-2	+1	-3	-1
BT(8DPSK)	2402-2480MHz	-2	+1	-3	-1

Right

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT(GFSK)	2402-2480MHz	2	+1	1	3
BT($\pi/4$ DQPSK)	2402-2480MHz	-2	+1	-3	-1
BT(8DPSK)	2402-2480MHz	-2	+1	-3	-1

The measured conducted AV Power

Left

Mode	Frequency (MHz)	AV Power (dBm)
BT(GFSK)	2480	2.96
BT($\pi/4$ DQPSK)	2480	-1.87
BT(8DPSK)	2480	-1.80

Right

Mode	Frequency (MHz)	AV Power (dBm)
BT(GFSK)	2480	2.14
BT($\pi/4$ DQPSK)	2480	-2.71
BT(8DPSK)	2480	-2.70



Left

Frequency (MHz)	Maximum source-based time AV conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	3	5	0.628	3.0	7.5	Exempt from SAR

Right

Frequency (MHz)	Maximum source-based time AV conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	3	5	0.628	3.0	7.5	Exempt from SAR

Conclusion:

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.



Important

- (1) The test report is valid with the official seal of the laboratory and the signatures of Test engineer, Author and Reviewer simultaneously.
- (2) The test report is invalid if altered.
- (3) Any photocopies or part photocopies in the test report are forbidden without the written permission from the laboratory.
- (4) Objections to the test report must be submitted to the laboratory within 15 days.
- (5) Generally, commission test is responsible for the tested samples only.

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