

Report No.:STS2503027H01

Issued for

Shenzhen Yikexin Electronics Co., Ltd.

4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen, China

Product Name: True wireless headphones

Brand Name: N/A

Model Name: K02

Series Model(s): K03

FCC ID: 2BLP4-K02

Test Standards: FCC 47CFR §2.1093

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.



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### **TEST REPORT**

Applicant's Name:	Shenzhen Yikexin Electronics Co., Ltd.
Address:	4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd
	Road, Shilong Community, Shiyan Street, Bao'an District,
	Shenzhen, China
Manufacturer's Name:	Shenzhen Yikexin Electronics Co., Ltd.
Address:	4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd
	Road, Shilong Community, Shiyan Street, Bao'an District,
	Shenzhen, China
<b>Product Description</b>	
Product Name:	True wireless headphones
Brand Name:	N/A
Model Name:	K02
Series Model(s):	K03
Test Standards	FCC 47CFR §2.1093 447498 D01 Interim General RF Exposure Guidance v06
The test results presented in this	s report relate only to the object tested. This report shall not be

reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

Date of Test .....

Date of receipt of test item...... 20 Feb. 2025

Date of Issue ...... 10 Mar. 2025

Test Result...... Pass

Technical Manager:

(Aaron Bu)

(Aaron Bu)

(Tony Liu)

Authorized Signatory:

(Bovey Yang)



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# **Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents	
00	10 Mar. 2025	STS2503027H02	ALL	Initial Issue	



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## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	True wireless he	True wireless headphones			
Brand Name	N/A	N/A			
Model Name	K02				
Series Model(s)	K03				
Model Difference	All the same exc	cept for the model name and appearance shape.			
	The EUT is Blue	etooth headset			
	Operation Frequency:	2402 – 2480 MHz			
Product Description	Modulation Type:	BT BR(1Mbps): GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8DPSK			
	Antenna gain:	-0.68dBi			
	Antenna Designation:	PCB Antenna			
Power Rating	DC 3.7V by batt	ery			
Adapter	N/A				
Battery	DC 3.7V 30mAh	DC 3.7V 30mAh .0111Wh			
Hardware Version	HLT-K02-56T				
Software Version	V1.0	V1.0			

#### 1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai

Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



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## 2. FCC 47CFR §2.1093 REQUIREMENT

#### 2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached. Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT
Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

	MHz	5	10	15	20	25	mm
	150	39	77	116	155	194	
	300	27	55	82	110	137	
	450	22	45	67	89	112	
	835	16	33	49	66	82	
	900	16	32	47	63	79	
	1500	12	24	37	49	61	SAR Test Exclusion
	1900	11	22	33	44	54	Threshold (mW)
	2450	10	19	29	38	48	2 (22.1.)
	3600	8	16	24	32	40	
	5200	7	13	20	26	33	
	5400	6	13	19	26	32	
	5800	6	12	19	25	31	
ļ							
	MHz	30	35	40	45	50	mm
	150	232	271	310	349	387	
	300	164	192	219	246	274	
	450	134	157	179	201	224	
	835	98	115	131	148	164	
	900	95	111	126	142	158	0.1D.T.
	1500	73	86	98	110	122	SAR Test Exclusion
	1900	65	76	87	98	109	Threshold (mW)
	2450	57	67	77	86	96	2 (2.11)
	3600	47	55	63	71	79	
	5200	39	46	53	59	66	
	5400	39	45	52	58	65	
	5800	37	44	50	56	62	



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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)] • [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  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

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 < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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## 2.3 TEST RESULT

Maximum measured transmitter power.

### **Worst Case**

Mode	frequency	Maximum Output Power	Tune up tolerance	Max Tune up
iviode	GHz	dBm	dBm	dBm
GFSK (BT)	2.480	-5.389	-6±1	-5
π /4-DQPSK (BT)	2.480	-4.536	-5±1	-4
8DPSK (BT)	2.480	-4.190	-5±1	-4

# **Evaluation Result**

Mode	Frequency	Antenna Distance	RF output po including tur (dBm)		SAR Test Exclusion	SAR Test Exclusion	Estimated SAR
	GHz	mm	dBm	mW	Threshold Exclusion		
8DPSK (BT)	2.48	5	-4	0.84	0.264	Yes	/

### Note:

- 1. Remark: The worst case gain of the antenna is -0.68dBi.
- 2. Threshold at which no SAR required is 0.264≤ 3.0 for 1-g SAR, Separation distance ≤ 5mm.

\* \* \* \* \* END OF THE REPORT \* \* \* \*