



Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: www.cqa-cert.com

Report Template Version: V05

Report Template Revision Date: 2021-11-03

RF Exposure Evaluation Report

Report No.: CQASZ20220200212E-02
Applicant: Shenzhen Yuyin Electronic Co., Ltd
Address of Applicant: Shiyan Jie Dao Ying Ren Shi She Qu Yongxinm Jie Tianbao Road No. 34, 201
Bao An District Shen Zhen City Guang Dong Province
Equipment Under Test (EUT):
EUT Name: Wireless Pedal
Test Model No.: K24-01
Model No.: K24-01
Brand Name: Yueyinpu
FCC ID: 2A4JM-K24-01
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2022-02-18
Date of Test: 2022-02-18 to 2022-02-22
Date of Issue: 2022-02-24
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou

(Lewis Zhou)

Reviewed By: Rock Huang

(Rock Huang)

Approved By: Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220200212E-02	Rev.01	Initial report	2022-02-24

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Yuyin Electronic Co., Ltd
Address of Applicant:	Shiyan Jie Dao Ying Ren Shi She Qu Yongxinm Jie Tianbao Road No. 34, 201 Bao An District Shen Zhen City Guang Dong Province
Manufacturer:	Shenzhen Yuyin Electronic Co., Ltd
Address of Manufacturer:	Shiyan Jie Dao Ying Ren Shi She Qu Yongxinm Jie Tianbao Road No. 34, 201 Bao An District Shen Zhen City Guang Dong Province
Factory:	Shenzhen Yuyin Electronic Co., Ltd
Address of Factory:	Shiyan Jie Dao Ying Ren Shi She Qu Yongxinm Jie Tianbao Road No. 34, 201 Bao An District Shen Zhen City Guang Dong Province

3.2 General Description of EUT

Product Name:	Wireless Pedal
Model No.:	K24-01
Test Model No	K24-01
Trade Mark:	Yueyinpu
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz
Software Version:	V04
Hardware Version:	V01
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
EUT Power Supply:	Li-ion battery: DC 3.7V 450mAh, Charge by DC 5V for adapter

3.3 General Description of BT

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK
Number of Channel:	79
Transfer Rate:	1Mbps
Test Software of EUT:	bluetool1.6.8.6
Antenna Type:	PCB antenna
Antenna Gain:	2.78dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

4.1.2 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:

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

$f(\text{GHz})$ 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

4.1.3 EUT RF Exposure

Measurement Data

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-12.72	-12.5±1	-11.5	0.071	0.022	3.0
Middle (2440MHz)	-11.88	-12.0±1	-11.0	0.079	0.025	
Highest (2480MHz)	-10.93	-11.0±1	-10.0	0.100	0.031	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20220200212E-01.

*** END OF REPORT ***