

TEST REPORT

Applicant Name : Jingheng Tengwei (Huizhou) Electronic Technology Co., Ltd.
Address : No. 8 Minying 1 Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China
Report Number : 2504Y17236E-RF-00C
FCC ID: 2A4MQ-RKA72

Test Standard (s)

FCC PART 2.1093

Sample Description

Product Type: Mechanical keyboard
Model No.: RK A72, 9003
Trade Mark:



Date Received: 2025-10-21
Report Date: 2025-12-19

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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Approved By:

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Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked “#” is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Y17236E-RF-00C	Original Report	2025-12-19

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Mechanical keyboard
Tested Model	RK A72
Multiple Model	9003
Model Difference [#]	They are just the different model name (each model comes in various colors) and different with the names of distribution chains. Please refer to DOS letter for details. The applicant provided model "RK A72" for testing.
Frequency Range	BLE 1M: 2402-2480MHz 2.4G SRD: 2405-2475MHz
Maximum Conducted Output Power	BLE 1M: 1.91dBm
Maximum E-field Strength	2.4G SRD: 97.61dBuV/m@3m
Antenna Specification [#]	PCB Antenna: 1.2 dBi (It is provided by the applicant.)
Voltage Range [#]	DC5V from USB Type-C port or DC3.7V from battery
Sample Serial Number	3BK9-1, 3BK9-2 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts C and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §2.1093 rules and KDB 447498 D01 General RF Exposure Guidance v06.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

RF EXPOSURE

Applicable Standard

According to FCC §2.1093, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Test result

For worst case:

Radio	Frequency (MHz)	Tune-Up Conducted Output Power [#] (dBm)	Tune-Up Conducted Output Power [#] (mW)	Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
BLE	2480	2	1.58	5	0.5	3.0	Yes
2.4G SRD	2475	2	1.58	5	0.5	3.0	Yes

Note1: The tune-up conducted power is declared by the applicant.

Note 2: EIRP= Tune up conducted power + Antenna Gain

Note 3: $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$ for $d = 3$ m.

For SRD EIRP= $97.61 \text{ dBuV/m} - 95.2 = 2.41 \text{ dBm}$

Note 4: Conducted Output Power[dBm]= EIRP[dBm] - Antenna Gain[dBi]

For SRD Conducted Output Power[dBm] = $2.41 \text{ dBm} - (1.2) \text{ dBi} = 1.21 \text{ dBm}$

Note 5: The BLE and SRD can't transmission simultaneously.

Result: No SAR test is required.

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504Y17236E-RF EUT External Photos and Attachment No.2 2504Y17236E-RF EUT Internal Photos.

***** END OF REPORT *****