



# RF Exposure Evaluation Report

**Product** Wireless Multimedia Keyboard

Trade mark **MINISO** 

Model/Type reference K616,K617,K618, K619

Serial Number N/A

**Report Number** EED32N80982802

FCC ID 2ART4-K616 Date of Issue : Oct. 22, 2021

: 47 CFR Part 1.1307

47 CFR Part 2.1093 **Test Standards** 

KDB447498D01 General RF

Exposure Guidance v06

: PASS Test result

Prepared for:

MINISO CORPORATION 2501 ROOM 2501, NO.486HEYE SQUARE, KANGWANG MIDDLE ROAD, LIWAN DISTRICT, **GUANGZHOU, GUANGDONG, CHINA** 

Prepared by:

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## 2 Version

Version No.	Date	Description		
00	Oct. 22, 2021		Original	(3)
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## 4 General Information

#### 4.1 Client Information

Applicant:	MINISO CORPORATION		
Address of Applicant:	2501 ROOM 2501, NO.486HEYE SQUARE, KANGWANG MIDDLE ROAD, LIWA DISTRICT, GUANGZHOU, GUANGDONG, CHINA		
Manufacturer:	Dongguan Eranode electronics limited		
Address of Manufacturer:	building 2, No.17 DAHUAN Road, Dalingshan Town, Dongguan City, Guangdong Province		
Factory:	Dongguan Eranode electronics limited		
Address of Factory:	building 2, No.17 DAHUAN Road, Dalingshan Town, Dongguan City, Guangdong Province		

## 4.2 General Description of EUT

Product Name:	Wireless Multimedia Keyboard	(20)	
Mode No.(EUT):	K616,K617,K618, K619	(0,)	(0,)
Test Mode	K616		
Trade Mark:	MINISO		
EUT Supports Radios application:	BT 5.1 Single module 2402MHz to 2480MHz		

## 4.3 Product Specification subjective to this standard

Frequency Range:	BT 5.1 Single module 2402MHz to 2	2480MHz;	
Modulation Type:	GFSK		
Test Power Grade:	Default	(6.)	(0.)
Test Software of EUT:	662x_FCC_Rev1.4d		
Antenna Type:	PCB antenna		
Antenna Gain:	-1.52dBi		
Power Supply:	1.5V Batteries; AA	(3)	
Max Conducted Peak Output Power:	-10.16 dBm		
	The Max Conducted Peak Output Power data refer to the report EED32N80982801		
Sample Received Date:	Oct. 08, 2021		(27)
Sample tested Date:	Oct. 09, 2021 to Oct. 17, 2021		

#### Remark:

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.

Only the model K616 was tested, their circuit design, layout, components used and internal wiring are the same, but the model, color appearance is different.













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#### 4.4 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

#### 4.5 Deviation from Standards

None.

#### 4.6 Abnormalities from Standard Conditions

### 4.7 Other Information Requested by the Customer





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#### 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 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:

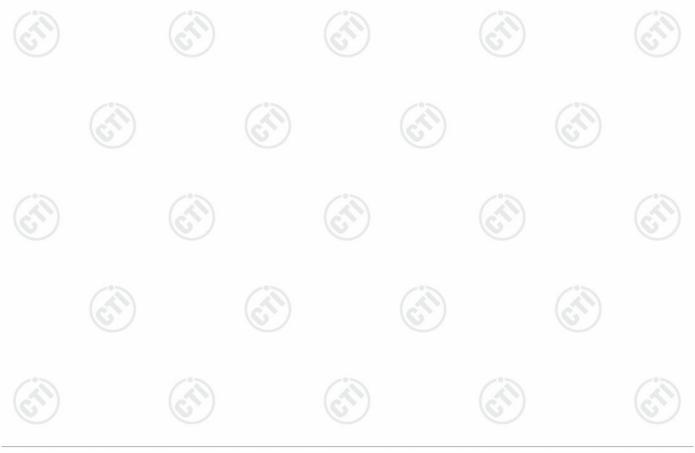
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $[\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

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  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion





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#### 5.1.2 EUT RF Exposure

The tune-up power is -10.5 dBm +/- 0.5dB, therefore the highest tune-up power is -10 dBm (0.10mW) @2480 Mhz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

(0.10mW / 5mm) \*( 2.480Ghz ^0.5) 0.03

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \*  $[\sqrt{f(GHz)}] = 0.03 < 3.0$ 

Therefore, standalone SAR measurements are not required for both head and body.





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### **PHOTOGRAPHS OF EUT Constructional Details**

Refer to Report No. EED32N80982801 for EUT external and internal photos.

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