

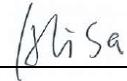
## RF Exposure Evaluation Report

Report Reference No.....: **MTWC21100741-H**

FCC ID.....: **2A3AI-GC217814**

Compiled by

( position+printed name+signature) ..: File administrators Alisa Luo



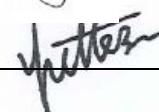
Supervised by

( position+printed name+signature) ..: Test Engineer Sunny Deng



Approved by

( position+printed name+signature) ..: Manager Yvette Zhou



Date of issue.....: **October 11, 2021**

**Representative Laboratory Name :** **Shenzhen Most Technology Service Co., Ltd.**

Address .....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
 Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**.....: **New Wanaka Limited**

Address .....: **FLAT/RM 803 8/F, EASEY COMMERCIAL BUILDING 253-261  
 HENNESSY ROAD, WAN CHAI HONG KONG**

**Test specification/ Standard** .....: **47 CFR Part 1.1307**

**47 CFR Part 2.1093**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: Smart Keyboard Piano

Trade Mark .....: The ONE

Manufacturer .....: **New Wanaka Limited**

Model/Type reference.....: COLOR

Listed Models .....: N/A

Modulation Type .....: GFSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version.....: 1.0

Software Version .....: 1.1

Rating .....: DC5V(by USB)

DC6V(by Battery)

Result.....: **PASS**

## TEST REPORT

Equipment under Test : Smart Keyboard Piano

Model /Type : COLOR

Listed Models : N/A

Applicant : **New Wanaka Limited**

Address : FLAT/RM 803 8/F, EASEY COMMERCIAL BUILDING 253-261  
HENNESSY ROAD, WAN CHAI HONG KONG

Manufacturer : **New Wanaka Limited**

Address : FLAT/RM 803 8/F, EASEY COMMERCIAL BUILDING 253-261  
HENNESSY ROAD, WAN CHAI HONG KONG

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2021.10.11	Initial Issue	Alisa Luo

## **2. SAR Evaluation**

### **2.1 RF Exposure Compliance Requirement**

#### **2.1.1 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.

#### **2.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

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

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<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  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 2.1.3 EUT RF Exposure

#### Measurement Data

GFSK				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.235	2.235±1	3.235	2.106
Middle(2440MHz)	2.655	2.655±1	3.655	2.320
Highest(2480MHz)	2.905	2.905±1	3.905	2.457

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest(2480MHz)	2.905	3.905	2.457	0.774	3.0	Yes

.....THE END OF REPORT.....