

RF Exposure Evaluation Report

Product Name : Wireless Gaming Keyboard
Model No. : MA02
FCC ID : EMJKMA02

Applicant : Primax Electronics Ltd

Address : 669 Ruey Kuang Road Neihu 114, Taipei, Taiwan

Date of Receipt : Nov. 28, 2020
Date of Declaration : Jan. 12, 2021
Report No. : 20B0995R-E3082100014
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.


Issued Date: Jan. 12, 2021

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| | | |
|---------------------|---|---|
| Product Name | Wireless Gaming Keyboard | |
| Applicant | Primax Electronics Ltd | |
| Address | 669 Ruey Kuang Road Neihu 114, Taipei, Taiwan | |
| Manufacturer | Primax Electronics Ltd | |
| Model No. | MA02 | |
| FCC ID. | EMJKMA02 | |
| Trade Name | ASUS | |
| Applicable Standard | KDB 447498 D01 v06 | <input type="checkbox"/> Minimum test separation distance \geq 20 cm <input checked="" type="checkbox"/> For low power devices |
| Test Result | Complied | |

Documented By :



(Senior Adm. Specialist / Rita Huang)

Tested By :



(Supervisor / Wen Lee)

Approved By :



(Director / Vincent Lin)

Revision History

| Report No. | Version | Description | Issued Date |
|----------------------|----------------|--------------------------|--------------------|
| 20B0995R-E3082100014 | V1.0 | Initial issue of report. | 2021-01-12 |

1. GENERAL INFORMATION

1.1. EUT Description

| | |
|--------------------|-----------------------------------|
| Product Name | Wireless Gaming Keyboard |
| Trade Name | ASUS |
| Model No. | MA02 |
| FCC ID. | EMJKMA02 |
| Frequency Range | 2403-2480MHz |
| Number of Channels | 78CH |
| Type of Modulation | GFSK |
| Antenna Type | PCB Antenna |
| Channel Control | Auto |
| Antenna Gain | Refer to the table "Antenna List" |

1.2. Antenna List

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|-----|--------------|----------|--------------|----------------------|
| 1 | ASUS | MA02 | PCB Antenna | 5.732 dBi for 2.4GHz |

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), 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.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ($\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$), SAR is required as shown in the table below where calculated values are greater than 3.0:

1.)

Operation frequency = 2450MHz and antenna separation distance = 5mm,
SAR Test Exclusion Threshold = 10mW

| Frequency Band (MHz) | Tune Up H-Field AV power | | SAR Test Exclusion Threshold | Calculated Threshold Value (≤ 3.0 SAR is not required) |
|-------------------------|--------------------------|------|---------------------------------|---|
| | (dBuV/3m) | (mW) | (mW) | |
| 2403~2480 | 100 | 3.00 | 10 | 0.930 |

Note1: The SAR/MPE measurement is not necessary.

Note2: The Tune Up H-Field AV power is refer to OPDes.