

# RF Exposure Evaluation Report

Product Name : MD200 Mouse

Model No. : MD200

FCC ID : MSQ-MS-MD200

Applicant : ASUSTeK Computer, Inc

Address : 1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan

Date of Receipt : 2022/04/19

Issued Date : 2022/06/10

Report No. : 2240526R-RFUSMPEV03-A

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.

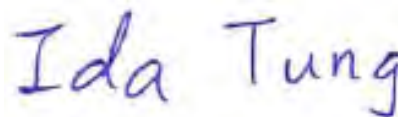
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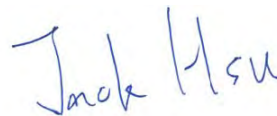
|                     |                                                 |                                                                                                                                     |
|---------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | MD200 Mouse                                     |                                                                                                                                     |
| Applicant           | ASUSTeK Computer, Inc                           |                                                                                                                                     |
| Address             | 1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan |                                                                                                                                     |
| Manufacturer        | ASUSTeK Computer, Inc                           |                                                                                                                                     |
| Trade Name          | ASUS                                            |                                                                                                                                     |
| Model No.           | MD200                                           |                                                                                                                                     |
| FCC ID              | MSQ-MS-MD200                                    |                                                                                                                                     |
| Applicable Standard | KDB 447498 D01 v06                              | <input type="checkbox"/> Minimum test separation distance $\geq 20$ cm<br><input checked="" type="checkbox"/> For low power devices |
| Test Result         | Complied                                        |                                                                                                                                     |

Documented By :



( Project Specialist / Ida Tung )

Tested By :



( Senior Engineer / Jack Hsu )

Approved By :



( Manager / Tim Sung )

**Revision History**

| Report No.            | Version | Description              | Issued Date |
|-----------------------|---------|--------------------------|-------------|
| 2240526R-RFUSMPEV03-A | V1.0    | Initial issue of report. | 2022/06/10  |

## 1. GENERAL INFORMATION

### 1.1. EUT Description

|                 |                                   |
|-----------------|-----------------------------------|
| Product Name    | MD200 Mouse                       |
| Model No.       | MD200                             |
| Trade Name      | ASUS                              |
| FCC ID          | MSQ-MS-MD200                      |
| Frequency Range | 2402 – 2480MHz                    |
| Antenna Type    | PCB Antenna                       |
| Antenna Gain    | Refer to the table “Antenna List” |

### 1.2. Antenna List

| No. | Manufacturer | Part No.            | Antenna Type | Peak Gain          |
|-----|--------------|---------------------|--------------|--------------------|
| 1   | NORDIC       | NRF52832_QFAA-QFN48 | PCB Antenna  | 3.68dBi for 2.4GHz |

### 1.3. Test Facility

**USA : FCC Registration Number: TW0033**

**Canada : CAB Identifier Number: TW3023 / Company Number: 26930**

Site Description : Accredited by TAF  
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd  
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan  
Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.  
Phone number : +886-3-275-7255  
Fax number : +866-3-327-8031  
Email address : [info.tw@dekra.com](mailto:info.tw@dekra.com)  
Website : <http://www.dekra.com.tw>

## 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

#### BLE

| Frequency Band<br>(MHz) | Antenna Gain | Output power    |                |            |           | SAR Test Exclusion Threshold | Calculated Threshold Value<br>( $\leq 3.0$ SAR is not required) |
|-------------------------|--------------|-----------------|----------------|------------|-----------|------------------------------|-----------------------------------------------------------------|
|                         | (dBi)        | Conducted (dBm) | Conducted (mW) | EIRP (dBm) | EIRP (mW) | (mW)                         |                                                                 |
| 2480                    | 3.68         | -0.75           | 0.84           | 2.93       | 1.96      | 4.45                         | 0.618                                                           |

#### 2.4GHz wireless

| Frequency Band<br>(MHz) | Maximum H-Field power |        | SAR Test Exclusion Threshold | Calculated Threshold Value<br>( $\leq 3.0$ SAR is not required) |
|-------------------------|-----------------------|--------|------------------------------|-----------------------------------------------------------------|
|                         | (dBuV/3m)             | (mW)   | (mW)                         |                                                                 |
| 2480                    | 98.08                 | 1.9281 | 4.45                         | 0.60726                                                         |

Note1: No RF Exposure evaluation required since maximum Transmitter Pout (both conducted and EIRP) is below exclusion threshold.

Note2: The SAR/MPE measurement is not necessary.

Note3: The maximum output power is refer to report No.: 2240526R-RFUSBLEV01-A and 2240526R-RFUSOTHV06-A from the DEKRA.