

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 ≥ 20 cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By : Ida Tung
 (Project Specialist / Ida Tung)

Tested By : Jack Hsu
 (Senior Engineer / Jack Hsu)

Approved By : Tim Sung
 (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
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 (MHz)	Antenna Gain	Output power				SAR Test Exclusion Threshold	Calculated Threshold Value (≤ 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 (MHz)	Maximum H-Field power		SAR Test Exclusion Threshold	Calculated Threshold Value (≤ 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.