

RF Exposure Evaluation Report

Product Name : MD300 Mouse
Model No. : MD300
FCC ID : MSQ-MS-MD300

Applicant : ASUSTeK Computer, Inc
Address : 1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan

Date of Receipt : Dec. 02, 2021
Date of Declaration : Dec. 27, 2021
Report No. : 21C0090R-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.

Issued Date: Dec. 27, 2021

Report No.: 21C0090R-RFUSMPEV03-A



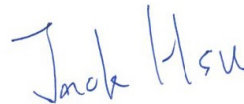
Product Name	MD300 Mouse	
Applicant	ASUSTeK Computer, Inc	
Address	1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan	
Manufacturer	ASUSTeK Computer, Inc	
Model No.	MD300	
FCC ID.	MSQ-MS-MD300	
Trade Name	ASUS	
Applicable Standard	KDB 447498 D01 v06	☐ Minimum test separation distance ≥ 20 cm ☒ For low power devices
Test Result	Complied	

Documented By :



(Senior Project Specialist / Joanne Lin)

Tested By :



(Senior Engineer / Jack Hsu)

Approved By :



(Manager / Tim Sung)

Revision History

Report No.	Version	Description	Issued Date
21C0090R-RFUSMPEV03-A	V1.0	Initial issue of report.	2021-12-27

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	MD300 Mouse
Trade Name	ASUS
Model No.	MD300
FCC ID.	MSQ-MS-MD300
Frequency Range	Bluetooth V5.2: 2402-2480MHz 2.4G wireless: 2403-2480MHz
Channel Number	Bluetooth V5.2: 40CH 2.4G wireless: 78CH
Type of Modulation	GFSK
Antenna Type	Chip Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Unictron	H2U34W1H1Z0600	Chip Antenna	2.5dBi for 2.4GHz

1.2. Test Facility

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:

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

Bluetooth V5.2:

Frequency Band	Maximum Peak EIRP power			SAR Test Exclusion Threshold	Calculated Threshold Value (≤ 3 SAR is not required)
	Conducted (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2480	-1.39	1.11	1.29	10	0.407

Note 1: The SAR/MPE measurement is not necessary.

Note 2: The maximum peak EIRP power is refer to report No.: 21C0090R-RFUSBLEV01-A from the DEKRA.

2.4G Wireless:

Frequency Band	Maximum Peak EIRP power		SAR Test Exclusion Threshold	Calculated Threshold Value (≤ 3 SAR is not required)
	(dBuV/3m)	(mW)	(mW)	
2480	99.83	2.8848	10	0.90861

Note 1: The SAR/MPE measurement is not necessary.

Note 2: The maximum peak EIRP power is refer to report No.: 21C0090R-RFUSOTHV06-A from the DEKRA.