

# RF Exposure Evaluation Report

Product Name : Wireless Gaming Keyboard Dongle

Model No. : ASUSDONGLES

FCC ID : XW3DKASUSDONGLES

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : Nov. 13, 2021

Date of Declaration : Jan. 14, 2022

Report No. : 21B0534R-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.

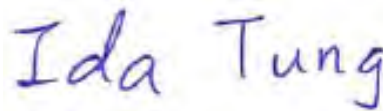
Issued Date: Jan. 14, 2022

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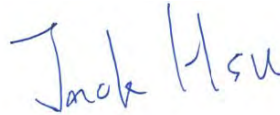
Product Name	Wireless Gaming Keyboard Dongle	
Applicant	ASUSTeK COMPUTER INC.	
Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan	
Manufacturer	ASUSTeK COMPUTER INC.	
Model No.	ASUSDONGLES	
FCC ID.	XW3DKASUSDONGLES	
Trade Name	ASUS	
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance $\geq$ 20 cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By :



( Project Specialist / Ida Tung )

Tested By :



( Senior Engineer / Jack Hsu )

Approved By :



( Manager / Tim Sung )

## Revision History

Report No.	Version	Description	Issued Date
21B0534R-RFUSMPEV03-A	V1.0	Initial issue of report.	Jan. 14, 2022

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Wireless Gaming Keyboard Dongle
Trade Name	ASUS
Model No.	ASUSDONGLES
FCC ID.	XW3DKASUSDONGLES
Frequency Range	2403-2480MHz
Channel Number	78CH
Type of Modulation	Pi/4 DQPSK
Antenna Type	Chip Antenna
Antenna Gain	Refer to the table "Antenna List"

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Advanced Ceramic X	AT8010-E2R9HAA	Chip Antenna	2.5dBi for 2.4GHz

## 1.2. Test Facility

**USA : FCC Registration Number: TW0033**

**Canada : IC Registration 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:

Operation frequency = 2450MHz and antenna separation distance = 5mm

Body SAR Test Exclusion Threshold = 10mW

Frequency Band	Maximum Average EIRP power		SAR Test Exclusion Threshold	Calculated Threshold Value ( $\leq 3$ SAR is not required)
	(dBuV/3m)	(mW)	(mW)	
2480	78.405	0.0208	10	0.00654

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 21B0534R-RFUSOTHV06-A from the DEKRA.