

TAS Algorithm Validation Report for FCC

(Test Under Dynamic Transmission Condition)

Applicant Name : ASUSTeK COMPUTER INC.

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

Product Name : Intel® BE201

Brand Name : Intel

Model Number : BE201NGW

FCC ID : MSQBE201NG

Report Number : USSC264229001

Compliant Standards : FCC 47 CFR §2.1093

Sample Received Date : Apr. 23, 2026

Date of Testing : Apr. 25, 2026 ~ May 04, 2026

Report Issue Date : May 12, 2026

The above equipment have been tested by **Eurofins E&E Wireless Taiwan Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Device Under Test (DUT) configurations represented herein are true and accurate accounts of the measurements of the sample's characteristics under the conditions specified in this report.

Note:

1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
2. This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Approved By :



Roy Wu / Technical Director

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Revision History

Rev.	Issue Date	Description	Revised by
00	May 12, 2026	Initial release	Rowan Hsieh

1. Information of Testing Laboratory

Test Facilities

Company Name: Eurofins E&E Wireless Taiwan Co., Ltd.
Address No.: 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan
Website: <https://www.atl.com.tw>
Telephone: +886-3-271-0188
Fax: +886-3-271-0190
E-mail: infoEETW@eurofins.com

Test Site Location

- ☐ No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan
☒ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan

Laboratory Accreditation

Location	TAF	FCC	ISED
No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan	Accreditation No.: 1330	Designation No.: TW0010	Company No.: 7381A CAB ID: TW1330
No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan	Accreditation No.: 1330	Designation No.: TW0034	Company No.: 28922 CAB ID: TW1330

2. Device Under Test Information

Product Name	Intel® BE201	
Brand Name	Intel	
Model Name	BE201NGW	
FCC ID	MSQBE201NG	
Host Information	Product Name: Notebook PC Trade Name: ASUS Model Name: UX8407A	
Supported Wireless Technologies	Tx Frequency (MHz)	Operating Mode
	WLAN 2.4G : 2412 ~ 2472 5G : 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720, 5745 ~ 5885 6G : 5955 ~ 6415, 6435 ~ 6515, 6535 ~ 6875, 6895 ~ 7115	2.4G : 802.11b/g/n/ax/be 5G : 802.11a/n/ac/ax/be 6G : 802.11ax/be
	Bluetooth 2402 ~ 2480	BR, EDR, LE

Note:

The above DUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

Time-Averaging for SAR

This device is enabled with Intel time-averaging algorithm to control and manage Wi-Fi transmitting power in real time and to ensure that the time-averaged RF exposure for Wi-Fi is in compliance with FCC requirements.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in **SAR Evaluation Report**. The validation of the time-averaging algorithm and compliance under the dynamic (time-varying) transmission scenario for Wi-Fi technology is reported in this **TAS Algorithm Validation Report**.

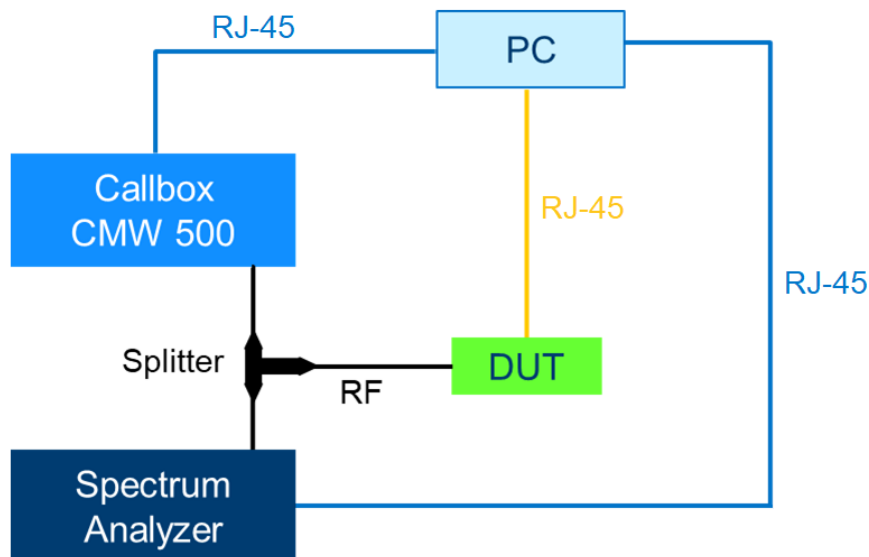
3. TAS Validation Test System

3.1. Conducted Power Test Setup

The TAS algorithm is validated through conducted power measurement and the test setup is described in the following and illustrated in *Figure 3-1*.

- The DUT which *BE201NGW* Wi-Fi module is installed inside Notebook Computer from *ASUS* model *UX8407A*.
- A control PC is used to configure the call box as an access point to manage the uplink and downlink data traffic.
- Uplink signal power is measured with the spectrum analyzer and recorded by the control PC with a maximum time resolution of 0.3333 millisecond.
- Uplink signal from the module is fed through a 3 dB power splitter, which delivers an equal amount of signal to the spectrum analyzer and the call box. The splitter has high isolation between the spectrum analyzer and the call box.

Figure 3-1: Conducted Power Test Setup for TAS Validation



4. Test Result for TAS Validation

4.1. Maximum SAR Tune-up Power per SAR Assessment

Chain A		Chain B	
IEEE 802.11g CH 6	IEEE 802.11a CH 120	IEEE 802.11g CH 6	IEEE 802.11a CH 120
14.0	13.0	14.0	13.0

4.2. TAS Validation for 2.4 GHz Band

Test Case #	Channel	Chain	Channel Bandwidth (MHz)	Measurement Averaging Period (second)	Measurement Time Resolution (millisecond)	Max. Tune-up Power (dBm)	SAR Power in BIOS (dBm)
1	6	A	20	100	0.3333	21.625	14.0
2	6	B	20	100	0.3333	21.625	14.0

Results of test cases in above table are shown in the following plots.

Case #1: 2.4 GHz, CH 6, Chain A, BW 20 MHz, Rate 12 Mbps

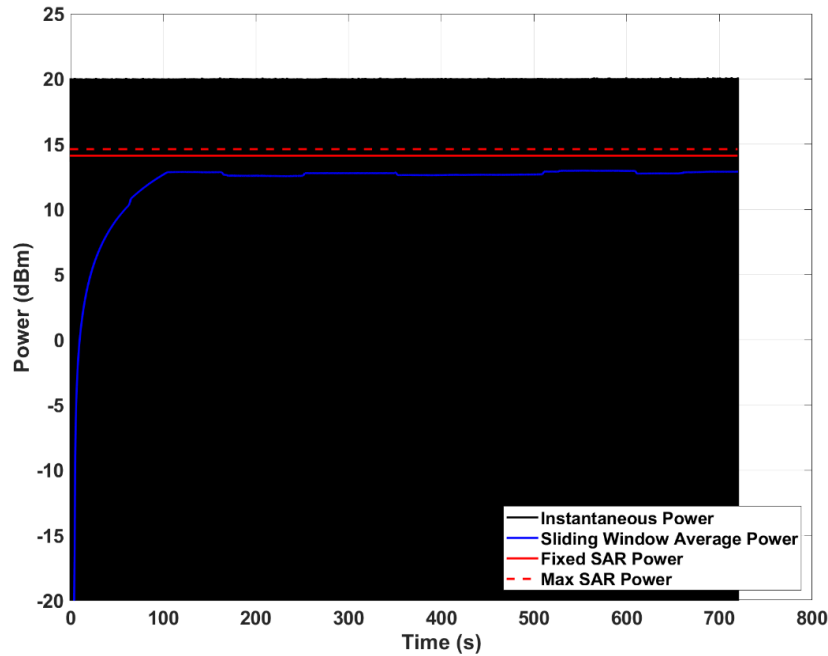
Averaging Period: 100 second; T_{max} : 720 second

Max. Tune-up Power (dBm)

21.625

SAR Power in BIOS Table (dBm)

14.0



Case #2: 2.4 GHz, CH 6, Chain B, BW 20 MHz, Rate 12 Mbps

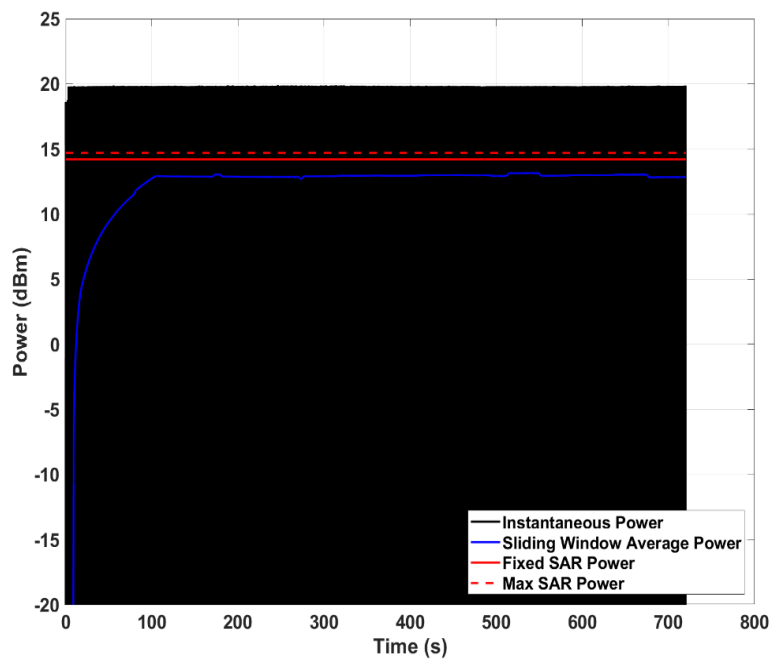
Averaging Period: 100 second; T_{max} : 720 second

Max. Tune-up Power (dBm)

21.625

SAR Power in BIOS Table (dBm)

14.0



4.3. TAS Validation for 5 GHz Band

Test Case #	Channel	Chain	Channel Bandwidth (MHz)	Measurement Averaging Period (second)	Measurement Time Resolution (millisecond)	Max. Tune-up Power (dBm)	SAR Power in BIOS (dBm)
1	120	A	20	60	0.3333	20.5	13.0
2	120	B	20	60	0.3333	20.5	13.0

Results of test cases in above table are shown in the following plots.

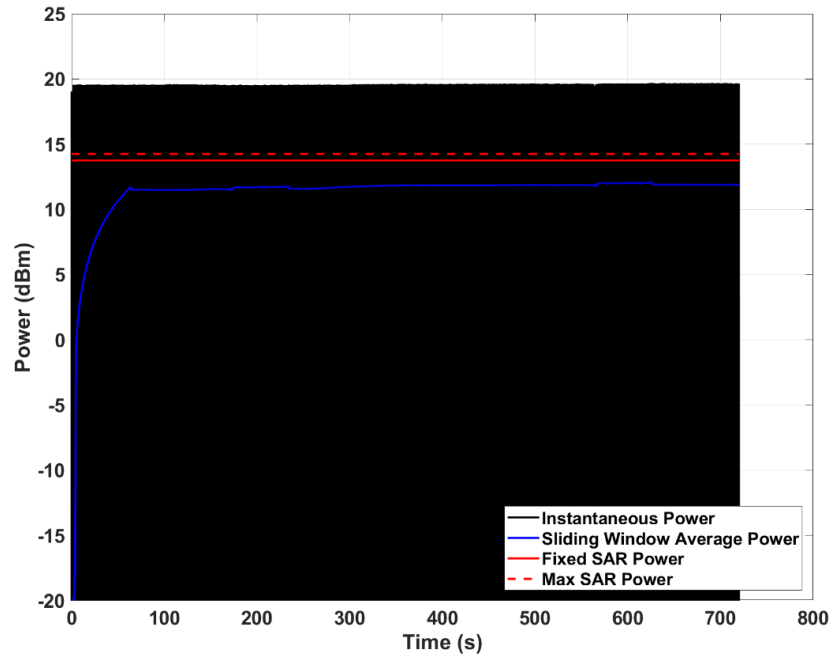
Case #1: 5 GHz, CH 120, Chain A, BW 20 MHz, Rate 12 Mbps
Averaging Period: 60 second; T_{max} : 720 second

Max. Tune-up Power (dBm)

20.5

SAR Power in BIOS Table (dBm)

13.00



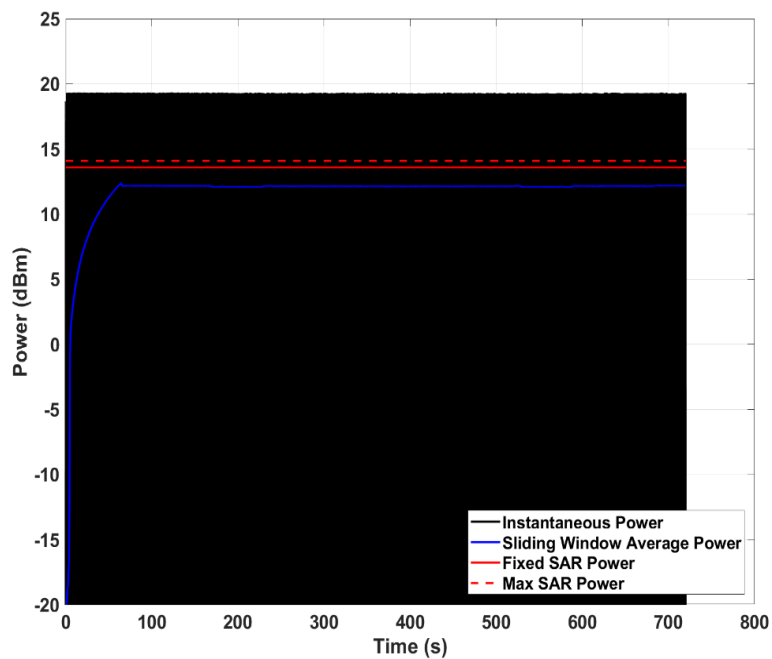
Case #2: 5 GHz, CH 120, Chain B, BW 20 MHz, Rate 12 Mbps
Averaging Period: 60 second; T_{max} : 720 second

Max. Tune-up Power (dBm)

20.5

SAR Power in BIOS Table (dBm)

13.0



5. Conclusions for Time-Averaging Feature Validation

The Intel's Time-Averaging feature for Wi-Fi employed in this device has been validated through the conducted power measurement (as demonstrated in Chapter 4).

With the combination of the **SAR Evaluation Report (Test Under Static Transmission Scenario)** for FCC equipment authorization, and this **TAS Algorithm Validation Report** for time-averaging feature validation, it can be concluded that the time-averaged RF exposure for this device is compliant with the FCC limits in all transmission scenarios for all the supported radios.

6. Equipment List

Manufacturer	Equipment	Model	Serial No.	Cal. Date	Cal. Interval
R&S	Wireless Communication Test Set	CMW500	170768	Nov. 30, 2022	2 year
R&S	Spectrum Analyzer	FSV3013	101679	Jul. 01, 2025	1 year

Test Engineer : Joanna Chen

***** End of Report *****