



TEST REPORT

COMPLIANCE TEST REPORT

EUT Description Wireless module installed in Convertible PC

Brand Name Intel®

Model Name AX211NGW

FCC ID PD9AX211NG

Date of Test Start/End 2025-01-23 / 2025-01-23

Features 2x2 Wi-Fi - Bluetooth®

(see section 5)

Applicant Intel Corporation SAS

Address 425 Rue de Goa – Le Cargo B6 – 06600 Antibes, FRANCE

Contact Person Benjamin Lavenant

Telephone/Fax/ Email Benjamin.lavenant@intel.com

Test Report identification 241004-04.TR03

Rev. 00

Revision Control This test report revision replaces any previous test report revision

(see section 8)

The test results relate only to the samples tested.

Reference to accreditation shall be used only by full reproduction of test report

Reviewed by

Estelle GILLES (Test Engineer)

Intel Corporation S.A.S – WRF Lab
425 rue de Goa – Le Cargo B6 - 06600, Antibes, France
Tel. +33493001400 / Fax +33493001401



Table of Contents

1.	Stand	lards, reference documents and applicable test methods	3						
2.	General conditions, competences and guarantees3								
		onmental Conditions							
		Sample							
	. EUT Features4								
		irks and comments							
		ment Revision History							
Anr	nex A.	Test & System description	. 5						
Α	.1	TEST SETUP	5						
Α	2	TEST EQUIPMENT LIST	5						
Α	3	MEASUREMENT UNCERTAINTY EVALUATION	5						
Anr	nex B.	Test Results	7						
В	.1	SAR Tune-Up Power as per SAR assessment							
R	_	TACAMADATION FOR CACALT DAND ON CHANNEL C	_						
	3.2 TAS Validation for 2.4 GHz Band on Channel 6								

1. Standards, reference documents and applicable test methods

FCC 1. RF Exposure Policies and Procedures: TCB Workshop – April 2021

2. General conditions, competences and guarantees

- ✓ Tests performed under FCC standards identified in section 1 are covered by A2LA accreditation.
- ✓ Tests performed under ISED standards identified in section 1 are covered by Cofrac accreditation.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 testing laboratory accredited by the French Committee for Accreditation (Cofrac) with the certificate number 1-6736.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED company number 1000Y and CAB identifier FR0005.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.

3. Environmental Conditions

✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	Min: 20.23°C Max: 20.50°C AVG: 20.36°C
Humidity	Min: 46.21% Max: 60.18% AVG: 52.22%

4. Test Sample

Sample	ID # Description		Model	Serial #	Note
#1	241004-04.S05	Wireless Module Installed in Convertible PC	P200G	7865388900025	-



5. EUT Features

The herein information is provided by the customer.

Intel WRF Lab declines any responsibility for the accuracy of the stated customer provided information, especially if it has any impact on the correctness of test results presented in this report.

Brand Name	Intel®				
Model Name	AX211NGW				
Prototype / Production	Production				
Host Identification	Convertible PC				
	802.11b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)			
Supported Radios	802.11a/n/ac/ax	5.2GHz (5150.0 – 5250.0 MHz) 5.3GHz (5250.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)			
	802.11ax	6.0GHz (5925.0 – 7125.0 MHz)			
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)			

6. Remarks and comments

1. The test report is a validation of the FCC TAS algorithm

7. Document Revision History

Revision #	Date	Modified by	Revision Details
Rev.00	2025-01-24	Estelle GILLES	First Issue

Annex A. Test & System description

A.1 Test Setup

The conducted power measurement test setup is described in the following and illustrated in Figure A.1.

- The DUT which AX211 WiFi module is installed inside convertible PC from Dell model P200G
- 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 PC with a maximum time resolution of 0.3333 msec.
- 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.

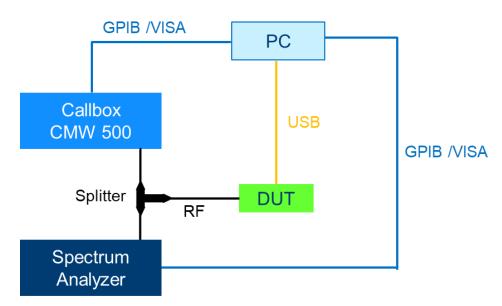


Figure.1 – Validation using conducted power measurement test setup.

A.2 Test Equipment List

Equipment and accessories used for the conducted power measurement test setup are listed below. The Test Platform (DUT), test setup and associated equipment are shown in A.1.3.

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
025-005	Communication Tester	CMW500	161493	Rohde & Schwarz	N/A	N/A
271-000	Spectrum Analyzer	FSL6	102143	Rohde & Schwarz	2024-05-21	2026-05-21
455-001	RF Cable	-	-	-	2024-02-16	2025-02-16
455-002	RF Cable	-	-	-	2024-02-16	2025-02-16
455-003	RF Splitter	-	-	-	2024-02-16	2025-02-16



A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the table below with a coverage factor of k = 2 to indicate a 95% level of confidence:

Measurement type	Uncertainty	Unit
Conducted Power	±1.03	dB



Annex B. Test Results

The herein test results were performed by:

Test Report No: 241004-04.TR03

Test case measurement	Test Personnel		
TAS	Estelle GILLES		

B.1 SAR Tune-Up Power as per SAR assessment

Chair	n A(1)	Chain B(2)		
IEEE 802.11g IEEE 802.11a CH6 CH120		IEEE 802.11g IEEE 802.11 CH6 CH120		
15.50	12.00	16.50	11.50	

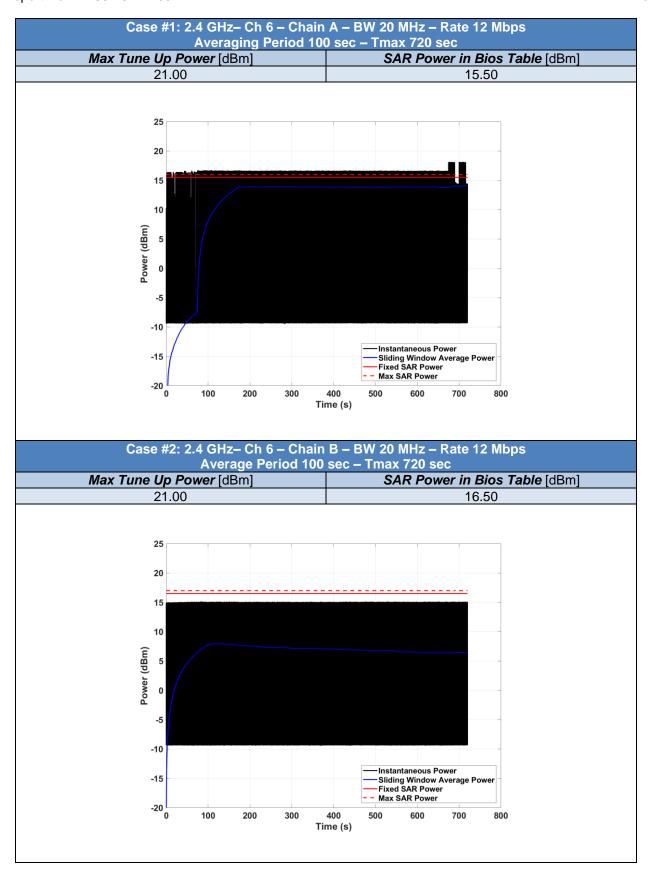
B.2 TAS Validation for 2.4 GHz Band on Channel 6

Test Case #	Channel	Chain	Channel Bandwidth	Measurement Averaging Period	Measurement Time Resolution	Max Tune-Up Power [dBm]	SAR Power in Bios Table [dBm]
1	6	Α	20 MHz	100 sec	0.3333 msec	21.00	15.50
2	6	В	20 MHz	100 sec	0.3333 msec	21.00	16.50

Results of test cases in

B1 are shown in the following plots.

Test Report No: 241004-04.TR03



B.3 TAS Validation for 5 GHz Band on Channel 120

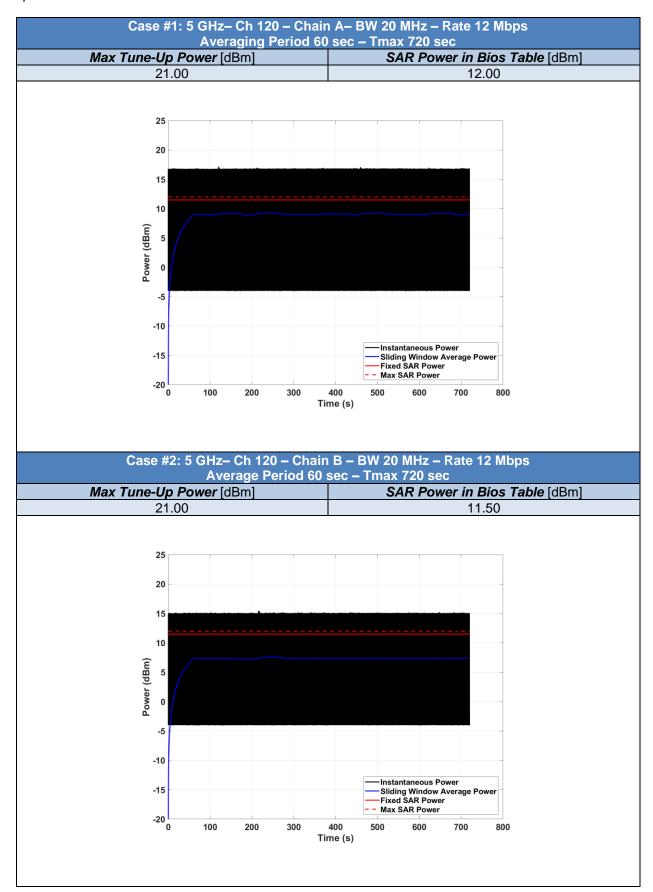
Test Report No: 241004-04.TR03

Test Case #	Channel	Chain	Channel Bandwidth	Measurement Averaging Period	Measurement Time Resolution	Max Tune-Up Power [dBm]	SAR Power in Bios Table [dBm]
1	120	Α	20 MHz	60 sec	0.3333 msec	21.00	12.00
2	120	В	20 MHz	60 sec	0.3333 msec	21.00	11.50

Results of test cases in Table B2 are shown in the following plots.



Test Report No: 241004-04.TR03





End of the report

This page is left intentionally blank and marks the last page of the test report.