



Bell Labs

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Nokia Global Product Compliance Laboratory
600-700 Mountain Avenue, Room 5B-111
Murray Hill, NJ 07974, USA

May 22, 2019

Subject: Application for Class II Change to FCC ID: FCC ID: VBNAAHJ-01 for Nokia AirScale MAA 64T64R 128AE B41 120W AAHJ Radio Unit, Operating in Band 41

Dear Examiner:

The Nokia Solutions and Networks USA LLC AirScale MAA 64T64R B41 AAHJ (hereinafter referred to as "AAHJ") is the subject of this application for a FCC Class II Change to the Product Certification under FCC ID: VBNAAHJ-01. The AAHJ is a LTE-TDD (Long Term Evolution-Time Division Duplex) transceiver and operates in Band 41 Broadband Radio Service (BRS) spectrum (2590 – 2690MHz). The AAHJ originally supported one to three 10MHz and/or 20MHz carriers and 64x64 MIMO operation with a maximum total RF output power of 120W at its 64T/64R transmit ports. This Class II Change is to add a 5G-NR Emissions Designator for a 40 MHz 80W Carrier. Nokia Bell Labs, part of the Nokia family of companies, hereby requests this certification for 5G-NR operation.

The key data for the Class II Change are summarized below.

FCC ID:	VBNAAHJ-01
FCC Rules:	Part 27
Frequency Range:	E-UTRAN Band 41, 2590-2690MHz
Output Power:	80 Watts Total for all ports with 64Tx 64R MIMO Configuration
Frequency Tolerance:	± 0.05 ppm
Emissions Designators	40M0G7W 5G-NR with QPSK, 16QAM, 64QAM and 256QAM

Enclosed in this application package are the FCC 731 Form, a Request for Short-Term Confidentiality, an Agent Authorization letter, the required measurement data and other required exhibits specific to this request for a FCC Class II Change authorization of the subject product. The measurement exhibits attached to this application demonstrate full compliance with FCC Part 27 following the procedural requirements specified in FCC Part 2 Subpart J – Equipment Authorization Procedures. The supporting exhibits are assembled and presented in accordance with the *Table of Contents* attached below.

Should there be any questions or procedural issues please feel free to contact me by email and/or phone.

Sincerely,

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Agent Authorization Letter

Short Term Confidentiality Letter

Required Exhibits:

<u>Exhibit Number</u>	<u>FCC Rule Number</u>	<u>Description</u>	
1	Section 2.1033(a)	FCC Form 731	
2	Section 2.911(d)	Qualifications and Certifications	
3	Section 2.1033(c)(1,2, 4-7)	Manufacturers, FCC Identifier, Emission, Range of RF Power & Frequency	
11	Section 2.1033(c)(10, 13)	Description of Modulation System,	
12	Section 2.1033(c)(21)	Photographs of the Test Setups	Short Term Confidentiality

FCC Test Report