

FCC ID: VBNAAHE-01

Nokia Global Product Compliance Laboratory 600-700 Mountain Avenue, Room 5A-107 Murray Hill, NJ 07974, USA December 4, 2018

Timco Engineering Inc.
FCC Authorized Telecommunication Certification Body
849 N.W. State Road 45, P.O. Box 370 Newberry,
Florida 32669

Subject: Application for Class II Permissive Change under FCC ID: VBNAAHE-01 for Nokia AirScale MAA 64T64R 128AE B41 120W AAHE, Operating in Band 41

Dear Examiner:

The Nokia Solutions and Networks **AirScale MAA 64T64R 128AE B41 120W AAHE** (hereinafter referred to as "AAHE") is the subject of this application for a Class II Permissive Change under FCC ID: VBNAAHE-01. The AAHE is a LTE-TDD (Long Term Evolution-Time Division Duplex) transceiver and operates in Band 41 Broadband Radio Service (BRS) spectrum (2496-2690 MHz). The original filing demonstrated that the AAHE supported one to three 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 extend the lowest frequency of the band of operation to include 2628.8 MHz, and add 10 MHz Single Carrier, 20 MHz Single Carrier and 20+10 MHz Multiple carrier operation to the existing Grant.

The key data are summarized below.

FCC ID: VBNAAHE-01

FCC Rules: Part 27

Frequency Range: E-UTRAN Band 41, 2628.8 – 2690 MHz

Output Power: 120 Watts Total with 64Tx 64R MIMO Configuration

Frequency Tolerance: \pm 0.05 ppm

Carriers: 10 MHz Single Carriers, 20 MHz Single Carriers and

20+10 MHz Multiple Carriers

Enclosed in this application package are FCC 731 Form, agent authorization letter, the required measurement data and other required exhibits specific to this request for 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.

Applicant: Nokia Solutions and Networks US LLC

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

FCC ID: VBNAAHE-01

Sincerely,

Steve Gordon Steve Gordon

Member of Technical Staff

email: Steve.gordon@nokia-bell-labs.com

Reviewed by:

Raymond J. Johnson

Technical Manager

Raymond Johnson

FCC Compliance Test Group

Nokia, Global Product Compliance Laboratory

Phone: +1 908 679 6220

email: ray.johnson@nokia-bell-labs.com

TABLE OF CONTENTS

Cover Letter

Exhibit #	FCC Rule Number	<u>Description</u>
Exhibit 1	Section 2.1033(a)	FCC Form 731
Exhibit 2	Section 2.911 (d)	Qualifications and Certifications
Exhibit 3		Setup Photographs
Exhibit 4		Test Report