

Bell Labs

Timco Engineering Inc. FCC Authorized Telecommunications Certification Body (TCB)

March 2, 2020

Timco Engineering Inc. FCC Authorized Telecommunication Certification Body 849 N.W. State Road 45, P.O. Box 370 Newberry, Florida 32669 Nokia, Global Product Compliance Laboratory 600-700 Mountain Avenue Room 5A-107 Murray Hill, New Jersey 07974-0636 USA

Dear Examiner:

The Nokia **AWHHF Airscale Micro RRH 4T4R 5G n41 4x20W** is the subject of this request for a Class II Change under **FCCID**: **2AD8UAWHHF01.** The AWHHF 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 AWHHF supports multiple carriers with 20 MHz bandwidth and 4x4 MIMO operation. The AWHHF has a maximum total RF output power of 80W at its 4T/4R transmit ports. Nokia Bell Labs, part of the Nokia family of companies, hereby requests this Class II Change for LTE-TDD 2-Carrier and 3-Carrier Operation.

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 data, summarized below, is in the form presently used by the Commission's Radio Equipment List.

Equipment Identification:	2AD8UAWHHF01
Rules Part Number:	Part 27
Emissions Designator(s):	37M6F9W and 57M5F9W
Frequency Range:	E-UTRAN Band 41, 2496-2690 MHz
Output Power:	80W total with 4x4 MIMO Configuration
Frequency Tolerance:	± 0.05 ppm

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.

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

Filing Engineer

Stwe Gordon Steve Gordon Member of Technical Staff Nokia, Global Product Compliance Laboratory Building 5A-107 600 Mountain Avenue Murray Hill, NJ 07974 Phone +1 908 679-5914 **email:** <u>Steve.gordon@nokia-bell-labs.com</u>

Reviewed by:

Kaymond f. Johnson

Raymond J. Johnson Technical Manager FCC Compliance Test Group Nokia, Global Product Compliance Laboratory Phone: +1 Building 5A-127 600 Mountain Avenue Murray Hill, NJ 07974 Phone: +1 908 679 6220 email: <u>ray.johnson@nokia-bell-labs.com</u>

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Cover Letter Agent Authorization Letter Required Exhibits:

Exhibit		
Number	FCC Rule Number	<u> </u>
1 Section	2.1033(a)	I
2 Section	2.911(d)	
3 Section	2.1033(c)(21)	I
4 FCC Te	st Report	

Description FCC Form 731 Qualifications and Certifications Photographs of the Test Setups