

Nokia Solutions and Network MN BB HW2 RD Int MHI SG 600-700 Mountain Avenue Murray Hill, NJ 07974-0636 August 18, 2023

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 Certification Approval for AHBCD AirScale Dual RRH 4T4R 240W under Certification Number FCC ID: VBNAHBCD-01

Dear Examiner:

The Nokia AHBCD AirScale Dual RRH 4T4R 240W, hereinafter referred to as "AHBCD" is a 4 port radio head that transmits 40 Watts per port over the B5 spectrum (869.0 – 894.0 MHz), 20 Watts per port over B13 spectrum (746 – 756 MHz) and 40 Watts per port over B26 spectrum (860 – 869 MHz). Part 22 Certification is for 5, 10, 15, 20 MHz 5G-NR, and 5, 10, & 15 MHz LTE. Part 27 Certification is for 5 and 10 MHz LTE in 746 - 756 MHz. Part 90S Certification is for 5 MHz LTE and 5G from 860 - 869 MHz.

The AHBCD utilizes QPSK, 16 QAM, 64QAM and 256QAM modulation formats. The 4 individual transmit ports are identical in design, rated power, and performance.

This Class II Permissive Change is to add 5 and 10 MHz 5G-NR Single Carrier capabilities for Band 13 with an updated firmware from SBTS22R2 to SBTS23R4.

The data of the subject equipment are summarized below:

FCC ID	VBNAHBCD-01
Manufacturer	Nokia Solutions and Networks
Subject Equipment	AHBCD01
Equipment Type	Transceiver
Frequency Band	FCC Part 27 (746 - 756)
Maximum Output Power	80 W
(conducted)	
Frequency Tolerance	\pm 0.05 ppm
Carriers	5G-NR - 5, 10 MHz bandwidths Single Carrier



Radio Standards ProcedureFCC Part 2Radio Standards Specification:FCC Part 27

Enclosed in this application package are FCC 731 Form, agent authorization letter, attestation letters, 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 Parts 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,

Kaymond Johnson

Primary Administrative Contact Raymond J. Johnson Technical Manager Global Product Compliance Laboratory Building 5B-111 600 Mountain Avenue Murray Hill, NJ 07974 Phone: 908-679-6220 email: ray.johnson@nokia-bell-labs.com

Filing Engineer

Steve Gurdon

Steve Gordon Global Product Compliance Laboratory Building 5A-107 600 Mountain Avenue Murray Hill, NJ 07974 Phone 908-679-5014 email: <u>steve.gordon@nokia-bell-labs.com</u>

NOKIA

TABLE OF CONTENTS

Cover Letter Agent Authorization Letter Attestation Statements Part 2.911(d)(5)(i) & (ii) Attestation Statements Part 2.911(d)(7) Required Exhibits:

Exhibit

Number	FCC Rule Number	Description
1	Section 2.1033(a)	FCC Form 731
2	Section 2.911(d)	Qualifications and Certifications
3	Section 2.1033(c)(21)	Photographs of the Test Setups
4	Section 2.1033(14), 2.911	(e)Test Report
5	Sections 1.1307 & 1.1310	RF Exposure Assessment (MPE Report)
6	Section 2.1033 (c) (12)	External Photographs of the Equipment

.