

Exhibit 11: DETAILED DESCRIPTION OF THE MODULATION SYSTEM

SECTION 2.1033(c) (13)

For equipment employing digital modulation techniques, a detailed description of the modulation system to be used, including response characteristics of any filters provided, and a description of the modulating wavetrain, shall be submitted for the maximum rated conditions under which the equipment will be operated.

Response

The Nokia Small Cell AWKUC (AC source input) and AWKUD (DC source input) is a 2T2R TDD radio and supports 5G-NR radio access technology. It is capable of one to eight 100 MHz multicarrier operation. It transmits at a maximum of 72 dBm EIRP using its electrically steerable beam phased array antenna. A System on a Chip (SoC) IC provides all the digital processing for the downlink and uplink paths to and from the transceiver analog beam forming ICs. It uses RFIC converters to convert digital I/Q-data to RF frequency and then up-convert to the n258 frequency band in the ranges of 24.25 – 26.5 GHz. The RF data stream is fed to a splitter/combiner network to each antenna element through a beam forming IC that contains the phase and amplitude shifters to provide electrical beam steering and beam shape tapering.

The SoC performs digital equalization and channel filtering with a series of filters and signal conditioning stages. Analog IF and RF filtering is done to attenuate any undesired spectral emissions from oscillators, harmonics, and images prior to antenna beam forming. The overall response achieves pulse shaping and equalization which meets the transmitted signal Rho and EVM requirements when demodulated with the appropriate matched filter (e.g., in test equipment) complying with the requirements of the 3GPP 5GNR standards.

The latest released document detailing modulation supported by this product is **3GPP TS 38.211 V17.6.0 (2023-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Physical channels and modulation** (Release 17). This standard incorporates 5G coding for QPSK, 16QAM, 64QAM and 256QAM.

Additional information is in Exhibit 6 of this application.