

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 AEUA supports the LTE Based 5G New Radio access technology defined in 3GPP, including multiple-input multiple-output (MIMO). The 5G-NR access technologies are being developed and standardized under 3GPP TS 38. The status of Release 16 is that it is the evaluation stage with Release 16 scheduled to be issued in Q4 of 2018.

The latest released document detailing modulation was:

3GPP TS 38.211 V15.2.0 (2018-06) *3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Physical channels and modulation (Release 15)*

This above standard incorporates coding for QPSK, 16QAM, 64QAM and 256QAM so the overall spectral appearance is similar to LTE.

Additional information is in Exhibit 6 of this application.