

ST Engineering Telematics Wireless Ltd.

FCC ID:NTAN35HG

Exposure limit according to §90(i)

The device is classified as mobile.

Limit for power density for general population/uncontrolled exposure is f/1500 mW/cm2 for 300 – 1500 MHz frequency range:

 $P = 450/1500 = 0.3 \text{ mW/cm}^2$

The power density P (mW/cm²) = PT / 4π r²

PT is the transmitted power, which is equal to the peak transmitter output power in 4GFSK modulation mode of 28.93 dBm plus maximum antenna gain -2 dBi, the maximum equivalent isotopically radiated power EIRP is:

P_T = 28.93 dBm + (-2) dBi = 26.93 dBm = 493.17 mW.

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

493.17 mW / 4π (20 cm)² \approx 0.098 mW/cm² < 0.3 mW/cm²

General public cannot be exposed to dangerous RF level.