

RF exposure limit according to FCC CFR 47 parts 1 and 2 §1.1310(e), §2.1091(b).

According report 7312311921 of SII

FCC ID: 2AC2T-RF-MODULE-G5P

FCC §1.1310 limit of power density for general population/uncontrolled exposure is
f/300 mW/cm² in the rang 300-1500 MHz.

Operating frequency range: 903 -927 MHz

Limit: 903MHz/300 = 3.01 mW/cm²

The EUT is defined as module inside portable device designed to be used so that the radiating structure(s) of the device may be used at 20 centimeters distance from the body of the user.

Pt- the transmitted maximum EIRP:

Power = Peak Conducted Output Power + Antenna Gain

Power = 12.88 dBm +2.28 dBi = 15.16 dBm = 32.81 mW.

Peak power density for distance 20 cm is

$Pt/4\pi r^2 = 32.81\text{mW}/4\pi*20^2 = 0.006528\text{ mW/cm}^2$.

That is less than 3.01 mW/cm² power density limit.