# RF exposure information

**FCC ID: 2AGCXLQSQ5**

**1. Introduction:**

The EUT is designed to be used in portable exposure conditions.
This product is a transmitter operated in 315MHz frequency.

**2. Output power considerations:**

Worst case output power transmitter ($E_{max}$): 83.19dBμV/m@3m
Pt=(E*d)/（30 x gt）= 0.001W = 1mw
Pt=transmitter output power in watts;
gt=numeric gain of the transmitting antenna (unites/dBi) = 1.35/1.3dBi;
E=electric field strength in V/m = (10^(83.19/20))/1000000 = 0.014 V/m
d=measurement distance in meters (m) = 3 m

**3. Compliance criteria:**

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation

Calculate:

(1/5) * (0.315) $^{0.5}$ = 0.112 < 3 for 1g SAR

Then SAR evaluation is not required.