

Radio Frequency Human Exposure Evaluation:

The highest RF output power of the EUT at 2480 MHz was measured 11.15 dBm which is less than 20mW.

Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 4.

Since maximum peak output power of the transmitter is $<60/f$ (GHz) mW, i.e. $13\text{mW} < 25(=60/2.4)$ mW, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

Maximum Output power of the RFID Transmitter:

$$P = (E \times d)^2 / (30 \times G)$$

Where: E = the measured maximum field strength in V/m = 0.01

G = the numeric gain of the transmitting antenna over an isotropic radiator = 1

d = the distance in meters from which the field strength was measured = 3

P = the power in watts

$$P = (0.01 \times 3)^2 / (30 \times 1) \\ = 0.03\text{mW}$$

The Bluetooth Antenna and the RFID antenna are separated by more than 5 cm distance.