RF exposure information

FCC ID: 2AFW2B024

1. Introduction:

The EUT is designed to be used in portable exposure conditions.
This product integrates a transmitter operated in 2406MHz~2476MHz frequency band.

2. Output power considerations:

Worst case output power transmitter (E_{max}): 91.41 dBμV/m@3m at 2476MHz
Pt=(E*d)/（30 x gt）= 0.0037W = 5.68dBm
Pt=transmitter output power in watts;
gt=numeric gain of the transmitting antenna (unitess) = 1;
E=electric field strength in V/m = (10^(91.41/20))/1000000 = 0.037 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:

(5.68/5) * (2.476)^0.5 = 1.79 < 3 for 1g SAR

Then SAR evaluation is not required.