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Page: 1 of 1
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1.1 RF Exposure Compliance Requirement

1.1.1 Standard requirement

15.247(b)(4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

1.1.2 EUT RF Exposure

PK power:

Fundamental Frequency(MHz)	Peak Output Power (dBm)
2410	16.89
2440	15.94
2470	14.77

The EUT duty cycle:

Duty cycle=T on/T period=0.256/1.548=16.5%

Factor=10log(duty cycle)=10log(0.165)= -7.83

P average=PK power+10log(duty cycle)=PK power+10log(0.165)=PK power-7.83

Average power:

Fundamental Frequency(MHz)	PK power (dBm)	Factor	Average power(dBm)
2410	16.89	-7.83	9.06
2440	15.94	-7.83	8.11
2470	14.77	-7.83	6.94

The Max Conducted Peak Output Power is **9.06dBm(8.054mW)** in lowest channel;

The best case gain of the antenna is 1.5dBi.

1.5dB logarithmic terms convert to numeric result is nearly 1.412

According to the formula. calculate the EIRP test result:

EIRP= P x G = 8.054 mW x 1.412= 11.372mW ①

SAR requirement:

S= 60 / f(GHz) = 60/2.440 = 24.58 mW ② ;

① < ②.

So the SAR report is not required.