

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 447498, no SAR required if power is lower than the flowing threshold:

Bluetooth

Frequency Range		Center frequency (MHz)	60/f SAR Limitation (mW)
Low Frequency (MHz)	High Frequency(MHz)		
2402	2480	2441	25

Maximum measured transmitter power: 1 Mbps Rate mode

Average Source Based Calculated Power (mW)
0.247

Threshold at which no SAR required is 25 mW.

Average Source Based Calculated Power is 0.247 mW

Conclusion: No SAR is required.

Maximum measured transmitter power: 2 Mbps Rate mode

Average Source Based Calculated Power (mW)
0.292

Threshold at which no SAR required is 25 mW.

Average Source Based Calculated Power is 0.292 mW

Conclusion: No SAR is required.

Maximum measured transmitter power: 3 Mbps Rate mode

Average Source Based Calculated Power (mW)
0.311

Threshold at which no SAR required is 25 mW.

Average Source Based Calculated Power is 0.311 mW

Conclusion: No SAR is required.

No Simultaneous transmission occurs.

Calculation:

1 Mbps Rate mode

Power = 22.54 mW (13.53 dBm)

Duty cycle = 3.250 ms / 296.67 ms (multiply by Power = 22.54 mW)

Average Power = **0.247 mW**

2 Mbps Rate mode

Power = 27.35 mW (14.37 dBm)

Duty cycle = 3.167 ms / 296.67 ms (multiply by Power = 27.35 mW)

Average Power = **0.292 mW**

3 Mbps Rate mode

Power = 28.38 mW (14.53 dBm)

Duty cycle = 3.250 ms / 296.67 ms (multiply by Power = 28.38 mW)

Average Power = **0.311 mW**