

SAR test exclusion

According to KDB 447498 D01 General RF Exposure Guidance v05, section 4.3.1

At 100 MHz to 6 GHz and for test separation distances \leq 50 mm, the SAR test exclusion threshold is determined according to the following;

a) $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] \leq 3.0$

1. SAR test exclusion threshold

Frequency : 2462 MHz (min. separation distances = 5 mm)

SAR test exclusion thresholds(5 mm) = $[(9.55 / 5) * \sqrt{2.412}] = 2.966 \leq 3.0$

Mode	Frequency (MHz)	Tune up output Power (dBm)	Measured max output power (dBm)	Separation Distance (mm)	≤ 3.0
802.11n	2412	8.80	9.76	5	2.94
802.11n	2436	8.80	9.29	5	2.64
802.11n	2462	8.80	8.13	5	2.05

[Tune up power, dBm] = [Target power, dBm \pm tune-up tolerance, dBm]

Maximum tuned up power = (8.80 dBm \pm 1 dBm) = 9.8 dBm = 9.55 mW

Measured max output power = 9.76 dBm

2. Conclusion : WL SAR was not required