

RF Exposure Report

1. RF Exposure Evaluation of EUT

1.1. Exposure conditions for standalone operations

Antenna Gain: 2.5 dBi

Max. transmitting Frequency: 2462 MHz (Highest channel)

Min. test separation distance: 0

Max. Power with tune up tolerance: 2 dBm = 7.08 mW (Typical Power = Max 2 dBm)

KDB 447498 D01 clause 4.3.1

Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 5 mm

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] ·

[$\sqrt{f(\text{GHz})}$] ≤ 3.0 for 1g SAR and ≤ 7.5 for 10g extremity SAR

Type of Modulation	Frequency [MHz]	Output Power [dBm]	Target power [dBm]	Allowed tolerance [dB]	Max tune up power [dBm]	Max tune up power [mW]	Separation distance [mm]	RF exposure	Limit
802.11b	2 412	6.03	6.50	± 2	8.50	7.08	5	2.20	3.00
	2 437	6.05	6.50	± 2	8.50	7.08	5	2.21	3.00
	2 462	6.03	6.50	± 2	8.50	7.08	5	2.22	3.00
802.11g	2 412	4.80	6.50	± 2	8.50	7.08	5	2.20	3.00
	2 437	4.74	6.50	± 2	8.50	7.08	5	2.21	3.00
	2 462	4.64	6.50	± 2	8.50	7.08	5	2.22	3.00

$$= [(7.08\text{mW} / 5\text{mm})] \times [\sqrt{2.462\text{GHz}}] = 2.22$$

➔ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.