

5 Efficiency/Gain/Directivity Measurements

5.1 Bluetooth Efficiency

The total efficiency is defined as the ratio of the radiated power to the conducted power.

Table 1: Measured Total Efficiency for Bluetooth antenna

Frequency (MHz)	Directivity (dBi)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2412	5.69	2.16	-3.53	44.4
2437	5.82	2.56	-3.26	47.2
2462	5.92	2.75	-3.18	48.1

The Bluetooth antenna performances is sufficient to ensure a good performance in near distance (1-10m).