FCC ID: QS3WBPRP1

Operational Description

The transmitter of the EUT (2.4GHz WLAN PCI Card) is powered by PCI interface. The antenna is Dipole Antenna, and the antenna connector type is SMA. The other instruction, please have a look at the users manual.

DSSS Information

This device is Direct Sequence Spread Spectrum, the data is mixed by pseudorandom code which is an orthogonal code. The mixed data is digital modulated by BPSK and QPSK technique depends on the data rates.
The CCK coding is applied for increasing the data rate, and also the processing gain will be increased. It is capable of processing packets that are encording to IEEE Std 802.11 and IEEE Std 802.11b high-rate extension (1- and 2-Mbit/s Barker, 5.5- and 11-Mbit/s CCK and PBCC). The bit rates are 1,2,5.5,11Mbps in the Barker and CCK encoder mode, the symbol rates are 1,1,1.375,1.375Mbps. The chip rates are always 11Mbps.
So, the Chip/symbol is 11, and 8 respectively. Although is higher bit rate, the processing gain is lower than 10, but the CCK and PBCC coding used in higher bit rate will provide 2.2dB coding gain.