

Appendix

4.4 Out-of-Band Conducted Emissions
FCC Rule 15.247(c):

Requirements

In any 100 kHz bandwidth outside the EUT passband, the RF power shall be at least 20 dB below that of the maximum in-band 100 kHz emission.

Procedure

A spectrum analyzer was connected to the antenna port of the transmitter. Analyzer Resolution Bandwidth was set to 100 kHz. For each channel investigated, the in-band and out-of-band emission measurements were performed. The out-of-band emissions were measured from 10 MHz to 40 GHz.

Test Result

Refer to the following plots for the test result:

Low Channel

| Out-of-Band conducted emissions | | |
|---------------------------------|----------|----------------------|
| Plot | Mode | Scan |
| 4.1.1 | QPSK 3/4 | 30 MHz – 5 GHz |
| 4.1.2 | QPSK 3/4 | 5 GHz – 5.725 GHz |
| 4.1.3 | QPSK 3/4 | 5.725 GHz – 5.85 GHz |
| 4.1.4 | QPSK 3/4 | 5.85 GHz – 10 GHz |
| 4.1.5 | QPSK 3/4 | 10 GHz – 40 GHz |
| 4.1.6 | QAM 16 | 1 GHz – 5 GHz |
| 4.1.7 | QAM 16 | 5 GHz – 5.725 GHz |
| 4.1.8 | QAM 16 | 5.725 GHz – 5.85 GHz |
| 4.1.9 | QAM 8 | 5 GHz – 5.725 GHz |
| 4.1.10 | QAM 8 | 5.725 GHz – 5.85 GHz |
| 4.1.11 | QPSK 1/2 | 5 GHz – 5.725 GHz |
| 4.1.12 | QPSK 1/2 | 5.725 GHz – 5.85 GHz |

Middle Channel

| Out-of-Band conducted emissions | | |
|---------------------------------|----------|----------------------|
| Plot | Mode | Scan |
| 4.2.1 | QPSK 3/4 | 30 MHz – 1 GHz |
| 4.2.2 | QPSK 3/4 | 1 GHz – 5.725 GHz |
| 4.2.3 | QPSK 3/4 | 5.725 GHz – 5.85 GHz |
| 4.2.4 | QPSK 3/4 | 5.85 GHz – 10 GHz |
| 4.2.5 | QPSK 3/4 | 10 GHz – 40 GHz |

Hi Channel

| Out-of-Band conducted emissions | | |
|--|-------------|----------------------|
| Plot | Mode | Scan |
| 4.3.1 | QPSK 3/4 | 30 MHz – 1 GHz |
| 4.3.2 | QPSK 3/4 | 1 GHz – 5.725 GHz |
| 4.3.3 | QPSK 3/4 | 5.725 GHz – 5.85 GHz |
| 4.3.4 | QPSK 3/4 | 5.85 GHz – 10 GHz |
| 4.3.5 | QPSK 3/4 | 10 GHz – 40 GHz |
| 4.3.6 | QAM 16 | 5.725 GHz – 5.85 GHz |
| 4.3.7 | QAM 16 | 5.85 GHz – 10 GHz |
| 4.3.8 | QAM 8 | 5.725 GHz – 5.85 GHz |
| 4.3.9 | QAM 8 | 5.85 GHz – 10 GHz |
| 4.3.10 | QPSK 1/2 | 5.725 GHz – 5.85 GHz |
| 4.3.11 | QPSK 1/2 | 5.85 GHz – 10 GHz |























































