

§15.247(a)(2) – Direct Sequence Bandwidth

Minimum Standard – 6dB bandwidth for direct sequence systems must be at least 500Hz (0.5 MHz).

Res. Bandwidth = 100 kHz (5dB/div)
Vid. BW = 100 kHz
Span = 30 MHz
Ref. Level -37 dBm
Sweep 10.0ms
Attenuator 0 dB ext. pad
6dB Bandwidth – Mkr Delta (6dB down from peak)
(see attached spectrum plots)

FREQUENCY (MHz)	Channel	6dB Bandwidth (MHz)
2413	01	9.69
2438	06	9.66
2458	10	9.66

Table 3. 6dB Bandwidth measurements

REMARKS:

PASS

§15.247(b) Maximum Peak Output Power

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt.

Res. Bandwidth = 3 MHz (7dB/div)
Vid. BW= 3 MHz
Span= 30 MHz
Ref. Level -25 dBm
Sweep 10 ms sec
Attenuator 0 dB ext. pad

Max. Power Peak + Atten = dBm $\Rightarrow$ Watts

FREQUENCY (MHz)	Channel	Power Output Conducted (dBm)	Power Output Radiated (mW)
2413	01	19.97	93.14
2438	06	19.75	
2450	10	19.05	

Table 4. Output Power Measurements

Notes:

The Power Output measurements were taken with a Peak reading Power Meter.

REMARKS:

PASS

§15.247(c) Power Density

Minimum Standard – The transmitted power density averaged over any 1 second interval shall not be greater than 8dBm in any 3kHz bandwidth within these bands.

Res. Bandwidth = 3 kHz (10dB/div)
Vid. BW = 3 kHz
Span = 300 kHz
Ref. Level -37 dBm
Sweep 1000 sec

Peak + Atten = dBm $\Rightarrow$ (Limit < 8dBm)

FREQ (MHz)	Channel	Power Density (dBm)
2413	01	-12.38
2438	06	-14.13
2458	10	-13.62

Table 5. Output Power Density Data.

REMARKS:

PASS