#### Time of Occupancy (Dwell Time) 4.7

# Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

## **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and VBW≥RBW, Span 0Hz.

# **Test Configuration**



Test Results			CTATES		TESTING
Modulation	Packet	Burst time (ms)	Dwell time (s)	Limit (s)	Result
	DH1	0.43	0.137		
GFSK	DH3	1.62	0.259	0.40	Pass
TATES	DH5	2.81	0.300		
GUL	2-DH1	0.49	0.157		
π/4DQPSK	2-DH3	1.68	0.269	0.40	Pass
	2-DH5	2.87	0.306	TESI	
	3-DH1	0.42	0.134	CTA .	
8DPSK	3-DH3	1.66	0.266	0.40	Pass
	3-DH5	2.75	0.293		C

Note:We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel. Dwell time=Pulse time (ms) × (1600 ÷ 2 ÷ 79) ×31.6 Second for DH1, 2-DH1, 3-DH1 Dwell time=Pulse time (ms) × (1600 ÷ 4 ÷ 79) ×31.6 Second for DH3, 2-DH3, 3-DH3 Dwell time=Pulse time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second for DH5, 2-DH5, 3-DH5 GA CTATESTING

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#### Test plot as follows:



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#### **Out-of-band Emissions** 4.8

### Limit C

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

### **Test Procedure**

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these setting are CTA TESTING made of the in-band reference level, bandedge and out-of-band emissions.

#### **Test Configuration**



#### **Test Results**

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

We measured all conditions (DH1, DH3, DH5) and recorded worst case at DH5

Test plot as follows:

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