





## A.6. Contention Based Protocol

## **Measurement Limit and Method:**

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)1. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

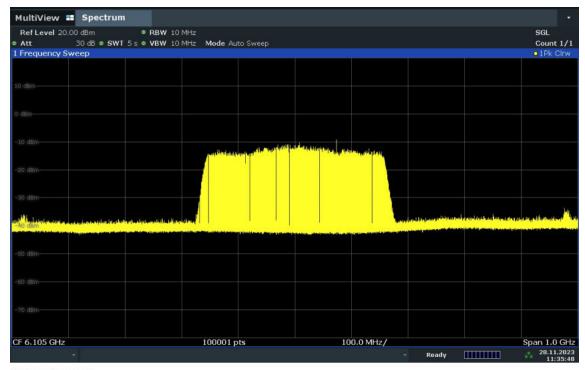
The measurement is made according to KDB 987594.

EUT does NOT use channel puncturing for incumbent avoidance. The EUT use bandwidth reduction for incumbent avoidance. An example figure 1, take the UNII-5 band 320 MHz channel: Working channel: 5975MHz (primary channel)

Bandwidth: 320MHz







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Figure 1

Injected signal 10MHz AWGN:

lower: 5950MHz; middle: 6105MHz; upper: 6260MHz For the lower edge

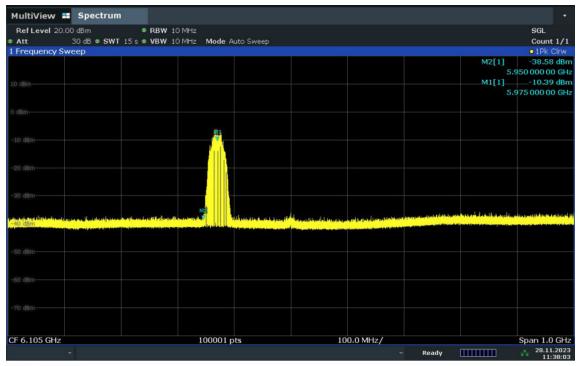
A 10 MHz AWGN signal (center frequency is 5950MHz) is injected, the EUT state on frequency domain is shown in figure 2, the bandwidth reduce to 40MHz (the primary channel is 5950MHz), and the other channel stop the data transmissions:

Mark1: primary channel

Mark2: AWGN signal center frequency







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Figure 2

## For the middle:

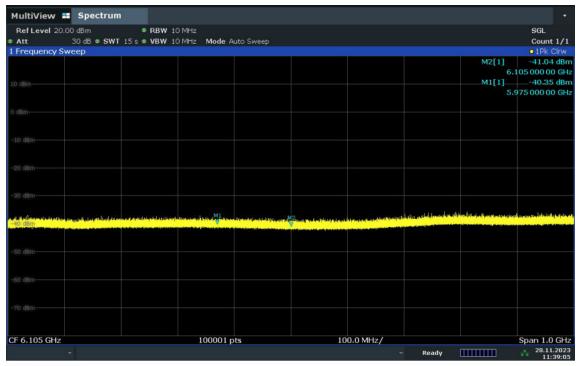
A 10 MHz AWGN signal (center frequency is 6105MHz) is injected, the EUT state on frequency domain is shown in figure 3, DUT stop data transmissions on all channel:

Mark1: primary channel

Mark2: AWGN signal center frequency







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Figure 3

# For the upper edge

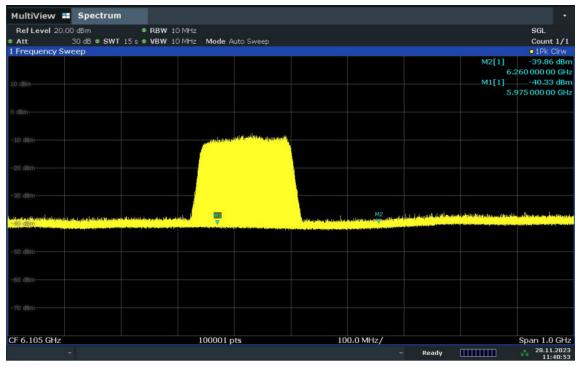
A 10 MHz AWGN signal (center frequency is 6260MHz) is injected, the EUT state on frequency domain is shown in figure 4,the bandwidth reduce to 160MHz (the primary channel is 5950MHz), and the other channel stop the data transmissions :

Mark1: primary channel

Mark2: AWGN signal center frequency







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Figure 4

## **Measurement Results:**

Note: The test evaluated the minimum antenna gain, which is reflected in the Ant Gain column.

Band	BW (MHz)	Fre. (MHz)	Incumbent Freq (MHz)	AWGN Signal Level (at Antenna Port) (dBm)	Incumbent Signal Level (Refer to 0dBi Antenna)	Ant Gain (dBi)	Detection Rate(%)	Threshold Level(dB m)
				-66.5	-64	-2.5 Cease trar	90 nsmission	-62
UNII	20	6135	6135 6135 fc1 = fc2	-69.5	-67	-2.5  Minimal tra	<90	-62
5				-90	-87.5	87.5 -2.5 0 -62  Normal transmission		-62
	320	6105	5950	-66.5	-64	-2.5	90	-62





			Lower		Cease transmission				
			Edge		-66.9	-2.5	<90	-62	
				-69.4		Minimal tra	nsmission		
					-87.5	-2.5	0	-62	
				-90		Normal trai	nsmission		
				20.5	-64	-2.5	90	-62	
			6105 fc1 = fc2	-66.5		Cease trar	nsmission		
				07.4	-64.9	-2.5	<90	-62	
				-67.4		Minimal tra	nsmission		
				00	-87.5	-2.5	0	-62	
			6260 Upper Edge	-90	Normal transmission				
				-66.1	-63.6	-2.5	90	-62	
					Cease transmission				
				-66.7	-64.2	-2.5	<90	-62	
					Minimal transmission				
				-90	-87.5	-2.5	0	-62	
				-90		Normal transmission			
Band	BW Fre. Incumbent		AWGN Signal Level (at Antenna Port)	Incumbent Signal Level (Refer to	Ant Gain (dBi)	Detection	Threshold Level(dB		
	(MHz)	Iz) (MHz) (MHz)			0dBi Antenna)		Rate(%)	m)	
				(dBm)	(dBm)				
	Band 20 6455				-63.1	-3.9	100	-62	
			-67	Cease transmission					
		6455		-66.1	-3.9	<90	-62		
		6455	fc1 = fc2	-70		Minimal tra	nsmission		
					-86.1	-3.9	0	-62	
				-90		Normal tra	nsmission		





-68.5	-				
Cease transmission					
-68.4 -2.5 <90 -62	<u> </u>				
6270 -70.9	<u>-</u>				
Lower S. T. C. T. C. T. C.					
Edge -90 -87.5 -2.5 0 -62	2				
Normal transmission					
-66.4	2				
320 Cease transmission					
UNII 320 6425 6425 -66.9 -63 -3.9 <90 -62	2				
Band   fc1 = fc2   Minimal transmission					
5/6/7 -86.1 -3.9 0 -62	2				
-90 Normal transmission	Normal transmission				
-63.9 -3.5 100 -62	2				
-67.4 Cease transmission					
6580 -66.9 -3.5 <90 -62	2				
Upper -70.4 Edge Minimal transmission					
-86.5 -3.5 0 -62	2				
-90 Normal transmission					
Incumbent Ant Gain					
AWGN Signal Level (dBi)					
Band Fre. Incumbent Level (at Refer to Detection Level (					
(MHz) (MHz) (MHz) Antenna Port) OdBi (dBm) Rate(%) m)	•				
(dBm)					
-63.5 -3.5 100 -62	2				
UNII -67 Cease transmission					
Band 20 6855 -66.5 -3.5 <90 -62	2				
7   fc1 = fc2   -70   Minimal transmission					
-90 -86.5 -3.5 0 -62	2				





						Normal tra	nsmission	
					-63.4	-3.5	90	-62
				-66.9		Cease trar	nsmission	
			6590		-65	-3.5	<90	-62
			Lower Edge	-68.5		Minimal tra	nsmission	
					-86.5	-3.5	0	-62
				-90		Normal tra	nsmission	
				07	-63.5	-3.5	100	-62
320				-67	Cease transmission			
UNII	000	0745	6745	00.5	-65	-3.5	<90	-62
Band	320	6745	fc1 = fc2	-68.5		Minimal tra	nsmission	
7(8)					-86.5	-3.5	0	-62
				-90	Normal transmission			
			6900 Upper Edge	-67.9	-64.5	-3.4	90	-62
					Cease transmission			
				-71.4	-68	-3.4	<90	-62
					Minimal transmission			
				-90	-86.6	-3.4	0	-62
				-90	Normal transmission			
					Incumbent Signal	Ant Gain		
Band	BW	Fre.	Incumbent	AWGN Signal Level (at	Level	(dBi)	Data etia n	Threshold
	(MHz)	(MHz)	Freq (MHz)	Antenna Port)	(Refer to 0dBi		Detection Rate(%)	Level(dB
			(IVITIZ)	(dBm)	Antenna)			m)
					(dBm)			
UNII			7015 fc1 = fc2	-67	-63.6	-3.4	100	-62
Band		7015			Cease transmission			
8				-70	-66.6	-3.4	<90	-62
				-	Minimal transmission			





					-86.6	-3.4	0	-62	
				-90		Normal transmission			
					-63.4	-3.5	90	-62	
				-66.9		Cease trar	nsmission		
			6590		-65	-3.5	<90	-62	
			Lower Edge	-68.5		Minimal tra	nsmission		
					-86.5	-3.5	0	-62	
		6745		-90	Normal transmission				
			6745 fc1 = fc2	-67	-63.5	-3.5	90	-62	
320 UNII Band 8(7)					Cease transmission				
				-68.5	-65	-3.5	<90	-62	
	320				Minimal transmission				
				-90	-86.5	-3.5	0	-62	
					Normal transmission				
				07.0	-64.5	-3.4	100	-62	
			6000	-67.9	Cease transmission				
			6900	-71.4	-68	-3.4	<90	-62	
			Upper Edge		Minimal transmission				
					-86.6	-3.4	0	-62	
				-90		Normal trai	nsmission		

Note: Incumbent signal level (dBm) = AWGN Signal power Level (dBm)-Antenna Gain (dBi),

The EUT encounters the incumbent signal that its power level is less than or equal to the detection threshold (-62dBm) with reference to 0dBi antenna gain. Path loss is negligible (0dB).

EUT support bandwidth reduction mechanism.

# **Conclusion: PASS** Test graphs as below:

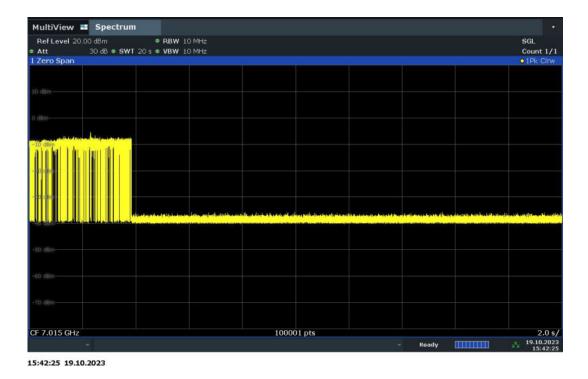
Mode	AWGN Signal Level	ceased transmission
802.1be-EHT20-7015MHz	See test graph	See test graph
802.11be-EHT320-6105MHz(middle)	See test graph	See test graph







Contention Based Protocol 802.11be-EHT20 (ch7015MHz-AWGN Signal Level)



Contention Based Protocol 802.11be-EHT20 (ch7015MHz-ceased transmission)

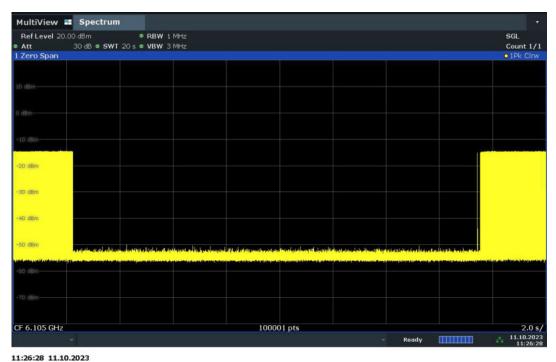






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# Contention Based Protocol 802.11be-EHT320 (ch6105MHz-middle-AWGN Signal Level)



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Contention Based Protocol 802.11be-EHT320 (ch6105MHz-middle-ceased transmission)





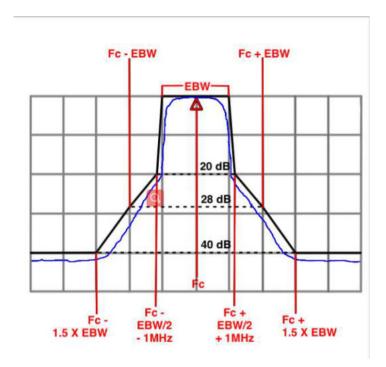
#### A.7. In-Band Emissions

#### **Measurement Limit and Method:**

- 1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
- 2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
- a) Set the span to encompass the entire 26 dB EBW of the signal.
- b) Set RBW = same RBW used for 26 dB EBW measurement.
- c) Set VBW ≥ 3 X RBW
- d) Number of points in sweep ≥ [2 X span / RBW].
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging)
- g) Trace average at least 100 traces in power averaging (rms) mode.
- h) Use the peak search function on the instrument to find the peak of the spectrum.
- 3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
- a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
- b. Suppressed by 28 dB at one channel bandwidth from the channel center.
- c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- 4. Adjust the span to encompass the entire mask as necessary.
- 5. Clear trace.
- 6. Trace average at least 100 traces in power averaging (rms) mode.
- 7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.







**Generic Emission Mask** 

The measurement is made according to KDB 987594.

## **Measurement Results:**

Test Mode	Antenna	Channel	Result	Limit	Verdict
	Ant9	5955	See test graph	See test graph	PASS
	Ant15	5955	See test graph	See test graph	PASS
	Ant9	6175	See test graph	See test graph	PASS
	Ant15	6175	See test graph	See test graph	PASS
	Ant9	6415	See test graph	See test graph	PASS
	Ant15	6415	See test graph	See test graph	PASS
	Ant9	6435	See test graph	See test graph	PASS
	Ant15	6435	See test graph	See test graph	PASS
	Ant9	6475	See test graph	See test graph	PASS
11A-MIMO	Ant15	6475	See test graph	See test graph	PASS
I IA-IVIIIVIO	Ant9	6515	See test graph	See test graph	PASS
	Ant15	6515	See test graph	See test graph	PASS
	Ant9	6535	See test graph	See test graph	PASS
	Ant15	6535	See test graph	See test graph	PASS
	Ant9	6695	See test graph	See test graph	PASS
	Ant15	6695	See test graph	See test graph	PASS
	Ant9	6855	See test graph	See test graph	PASS
	Ant15	6855	See test graph	See test graph	PASS
	Ant9	6875	See test graph	See test graph	PASS
	Ant15	6875	See test graph	See test graph	PASS





Ant15		ΛntΩ	6895	Soo tost graph	Soo tost graph	PASS
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Ant15						
Ant9   6025   See test graph   See test graph   PASS					• .	
Ant15   6025   See test graph   See test graph   PASS				<u> </u>	• .	
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	Ant9	6995	See test graph	See test graph	PASS
	Ant15	6995	See test graph	See test graph	PASS
	Ant9	7115	See test graph	See test graph	PASS
	Ant15	7115	See test graph	See test graph	PASS
	Ant9	5965	See test graph	See test graph	PASS
	Ant15	5965	See test graph	See test graph	PASS
	Ant9	6165	See test graph	See test graph	PASS
	Ant15	6165	See test graph	See test graph	PASS
	Ant9	6405	See test graph	See test graph	PASS
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	Ant9	6445	See test graph	See test graph	PASS
	Ant15	6445	See test graph	See test graph	PASS
	Ant9	6485	See test graph	See test graph	PASS
	Ant15	6485	See test graph	See test graph	PASS
	Ant9	6525	See test graph	See test graph	PASS
	Ant15	6525	See test graph	See test graph	PASS
11BE40MIMO	Ant9	6565	See test graph	See test graph	PASS
full RU	Ant15	6565	See test graph	See test graph	PASS
	Ant9	6685	See test graph	See test graph	PASS
	Ant15	6685	See test graph	See test graph	PASS
	Ant9	6845	See test graph	See test graph	PASS
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	Ant9	6885	See test graph	See test graph	PASS
	Ant15	6885	See test graph	See test graph	PASS
	Ant9	6925	See test graph	See test graph	PASS
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	Ant9	6965	See test graph	See test graph	PASS
	Ant15	6965	See test graph	See test graph	PASS
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	Ant9	5985	See test graph	See test graph	PASS
	Ant15	5985	See test graph	See test graph	PASS
	Ant9	6145	See test graph	See test graph	PASS
	Ant15	6145	See test graph	See test graph	PASS
	Ant9	6385	See test graph	See test graph	PASS
11BE80MIMO	Ant15	6385	See test graph	See test graph	PASS
full RU	Ant9	6465	See test graph	See test graph	PASS
	Ant15	6465	See test graph	See test graph	PASS
	Ant9	6545	See test graph	See test graph	PASS
	Ant15	6545	See test graph	See test graph	PASS
	Ant9	6625	See test graph	See test graph	PASS
	Ant15	6625	See test graph	See test graph	PASS
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	Ant9	6705	See test graph	See test graph	PASS
	Ant15	6705	See test graph	See test graph	PASS
	Ant9	6785	See test graph	See test graph	PASS
	Ant15	6785	See test graph	See test graph	PASS
	Ant9	6865	See test graph	See test graph	PASS
	Ant15	6865	See test graph	See test graph	PASS
	Ant9	6945	See test graph	See test graph	PASS
	Ant15	6945	See test graph	See test graph	PASS
	Ant9	7025	See test graph	See test graph	PASS
	Ant15	7025	See test graph	See test graph	PASS
	Ant9	6105	See test graph	See test graph	PASS
	Ant15	6105	See test graph	See test graph	PASS
	Ant9	6265	See test graph	See test graph	PASS
	Ant15	6265	See test graph	See test graph	PASS
11BE320MIMO	Ant9	6425	See test graph	See test graph	PASS
	Ant15	6425	See test graph	See test graph	PASS
full RU	Ant9	6585	See test graph	See test graph	PASS
	Ant15	6585	See test graph	See test graph	PASS
	Ant9	6745	See test graph	See test graph	PASS
	Ant15	6745	See test graph	See test graph	PASS
	Ant9	6905	See test graph	See test graph	PASS
	Ant15	6905	See test graph	See test graph	PASS





# **Test Graphs**

