

802.11be-EHT320-1 In-Band Emission - Ant 1 (Nss = 2)

Channel 31 (6105MHz)



Channel 95 (6425MHz)



Channel 159 (6745MHz)

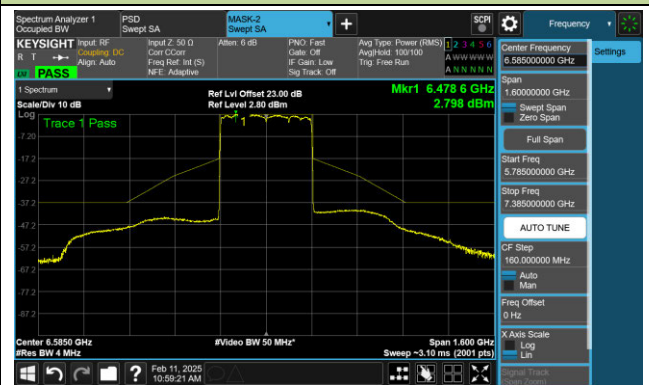


802.11be-EHT320-2 In-Band Emission - Ant 1 (Nss = 2)

Channel 63 (6265MHz)



Channel 127 (6585MHz)



Channel 191 (6905MHz)



A.6 Frequency Stability Test Result

Test Site	WJ-TR1	Test Engineer	Simon Lu
Test Date	2025-02-12		
Test Mode	5955MHz (Carrier Mode)		

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100	120	- 30	15.00	14.97	14.94	14.63
		- 20	17.08	17.97	18.15	18.49
		- 10	20.60	20.63	20.64	20.65
		0	19.91	19.88	19.87	19.85
		+ 10	16.13	16.12	16.12	16.12
		+ 20	13.26	13.19	13.11	13.08
		+ 30	7.05	7.00	6.97	6.93
		+ 40	2.48	2.50	1.78	1.79
		+ 50	0.89	0.85	0.82	0.80
115	138	+ 20	12.12	12.15	12.15	12.17
85	102	+ 20	12.18	12.18	12.20	12.20

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

A.7 Contention Based Protocol Test Result

Test Site	WJ-SR7	Test Engineer	Jake Lan
Test Date	2025-01-10	Test Mode	AP Mode

Test Channel	Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	AWGN Power (dBm)	Ant. Gain (dBi)	Adjust Power (dBm)	Detection Limit (dBm)	Detected Number	Detection Probability (%)	Limit (%)	Test Result
Operation Band: U-NII 5											
33	20	6115	6115	-63	5.44	-68.44	≤ -62.0	10	100	90	Pass
63	320	6265	6110	-66	5.44	-71.44	≤ -62.0	10	100	90	Pass
63	320	6265	6265	-64	5.44	-69.44	≤ -62.0	10	100	90	Pass
63	320	6265	6420	-65	5.44	-70.44	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 6											
97	20	6435	6435	-64	4.54	-68.54	≤ -62.0	10	100	90	Pass
95	320	6425	6270	-63	4.54	-67.54	≤ -62.0	10	100	90	Pass
95	320	6425	6425	-62	4.54	-66.54	≤ -62.0	10	100	90	Pass
95	320	6425	6580	-64	4.54	-68.54	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 7											
153	20	6715	6715	-68	4.15	-72.15	≤ -62.0	10	100	90	Pass
159	320	6745	6590	-68	4.15	-72.15	≤ -62.0	10	100	90	Pass
159	320	6745	6745	-67	4.15	-71.15	≤ -62.0	10	100	90	Pass
159	320	6745	6900	-68	4.15	-72.15	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 8											
213	20	7015	7015	-71	3.71	-74.71	≤ -62.0	10	100	90	Pass
191	320	6905	6750	-69	3.71	-72.71	≤ -62.0	10	100	90	Pass
191	320	6905	6905	-68	3.71	-71.71	≤ -62.0	10	100	90	Pass
191	320	6905	7060	-68	3.71	-71.71	≤ -62.0	10	100	90	Pass

Note 1: Adjust Power (dBm) = AWGN Power (dBm) – Antenna Gain (dBi).

Note 2: Conducted measurements are used.

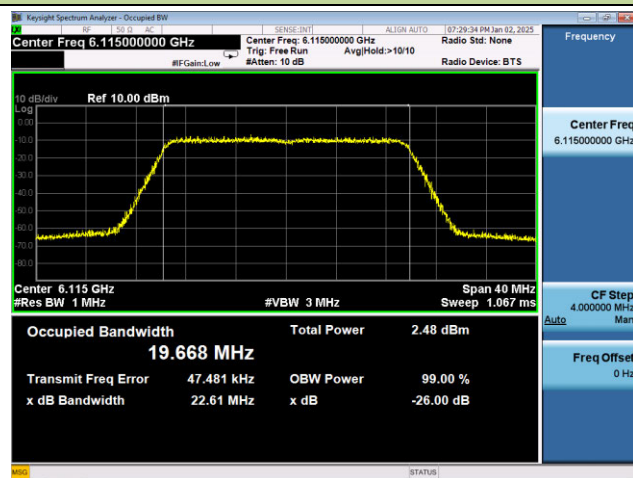
Test Site	WJ-SR7	Test Engineer	Jake Lan
Test Date	2025-01-02 ~ 2025-01-03	Test Mode	AP Mode

Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Tx Status
Operation Band: U-NII 5				
20	6115	6115	-72.44	ON
			-71.44	Minimal
			-68.44	OFF
320	6265	6110	-74.44	ON
			-73.44	Minimal
			-71.44	OFF
320	6265	6265	-72.44	ON
			-71.44	Minimal
			-69.44	OFF
320	6265	6420	-73.44	ON
			-72.44	Minimal
			-70.44	OFF
Operation Band: U-NII 6				
20	6435	6435	-71.54	ON
			-70.54	Minimal
			-71.54	OFF
320	6425	6270	-70.54	ON
			-69.54	Minimal
			-67.54	OFF
320	6425	6425	-70.54	ON
			-69.54	Minimal
			-66.54	OFF
320	6425	6580	-71.54	ON
			-70.54	Minimal
			-68.54	OFF

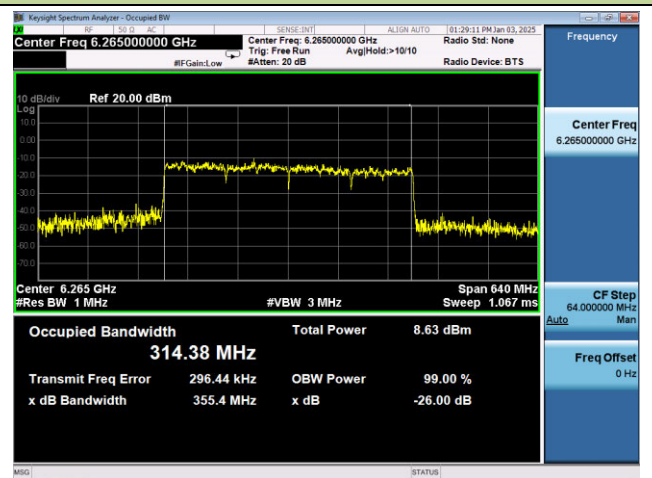
Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Status
Operation Band: U-NII 7				
20	6715	6715	-76.15	ON
			-75.15	Minimal
			-72.15	OFF
320	6745	6590	-75.15	ON
			-74.15	Minimal
			-72.15	OFF
320	6745	6745	-74.15	ON
			-73.15	Minimal
			-71.15	OFF
320	6745	6900	-74.15	ON
			-73.15	Minimal
			-72.15	OFF
Operation Band: U-NII 8				
20	7015	7015	-78.71	ON
			-77.71	Minimal
			-74.71	OFF
320	6905	6750	-75.71	ON
			-74.71	Minimal
			-71.71	OFF
320	6905	6905	-74.71	ON
			-73.71	Minimal
			-71.71	OFF
320	6905	7060	-74.71	ON
			-73.71	Minimal
			-71.71	OFF
Note: OFF: AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently ON: AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds				

EUT Tx Waveform for AP Mode

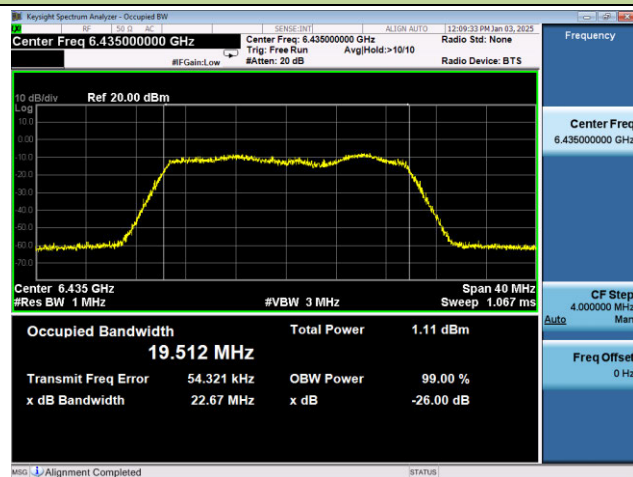
802.11be-EHT20 / CH33



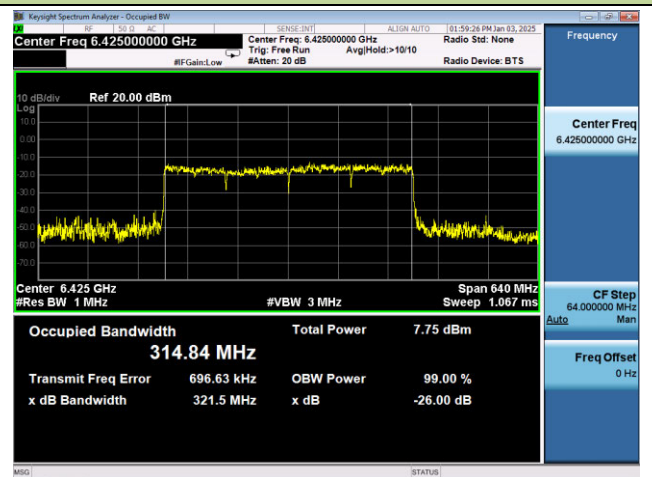
802.11be-EHT320 / CH63



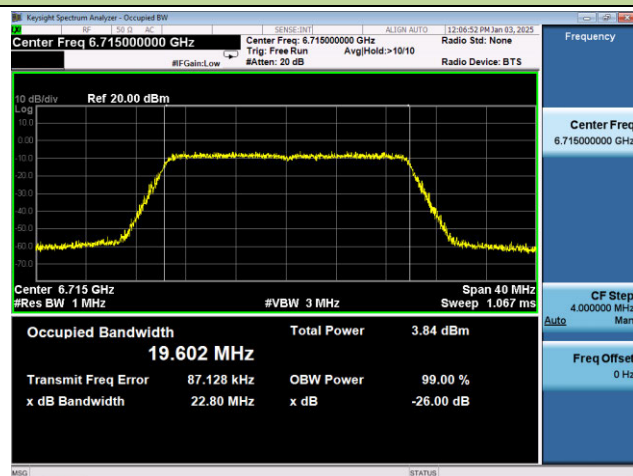
802.11be-EHT20 / CH97



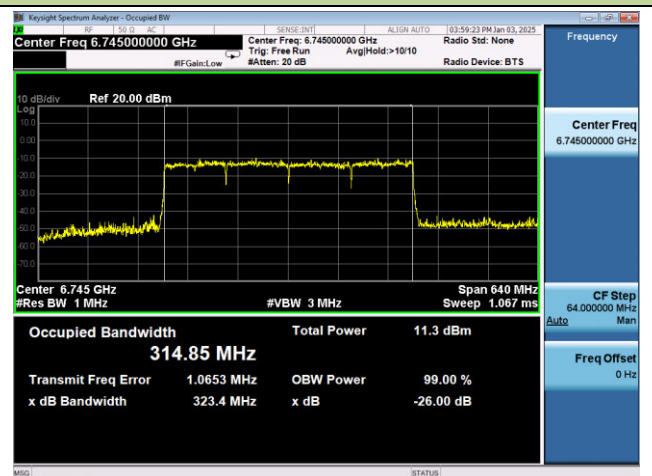
802.11be-EHT320 / CH95

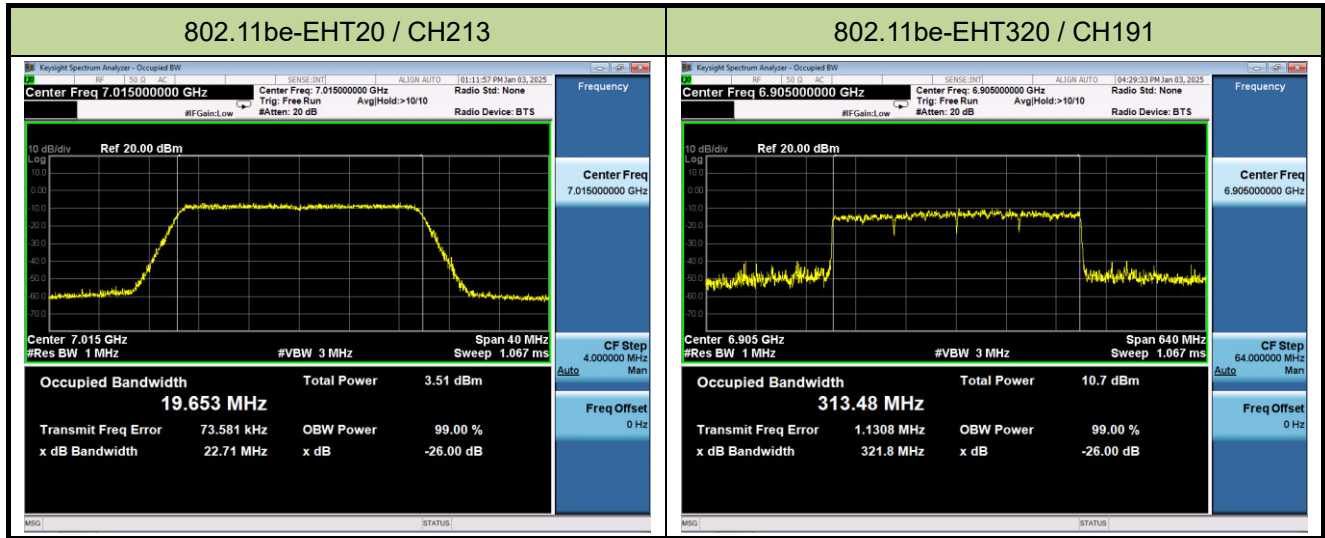


802.11be-EHT20 / CH153



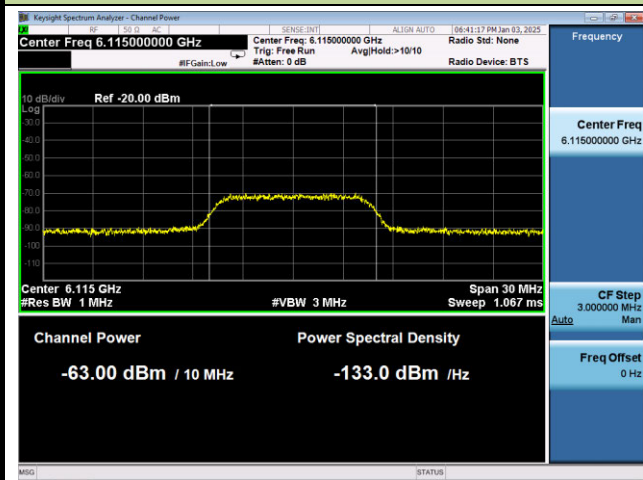
802.11be-EHT320 / CH159



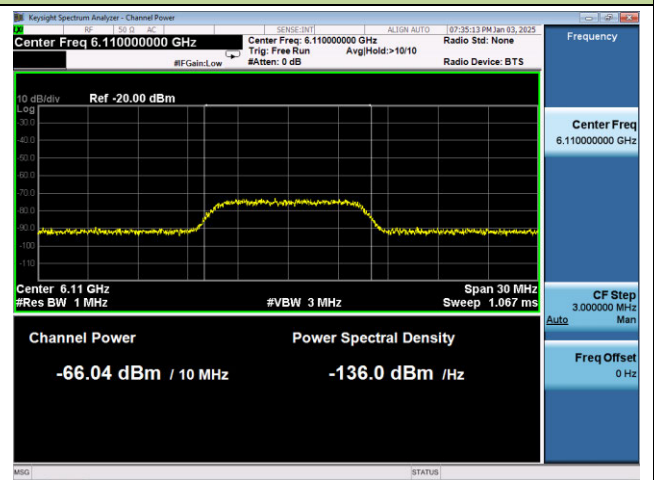


Incumbent Signal Calibration Plots (NII-5 Band) for AP Mode

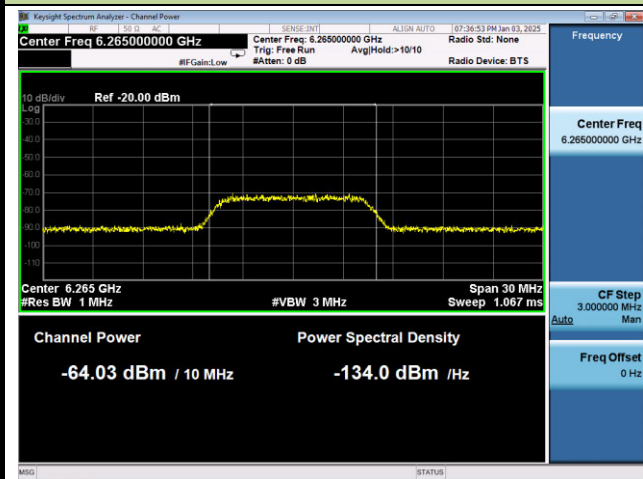
802.11be-EHT20 / CH33



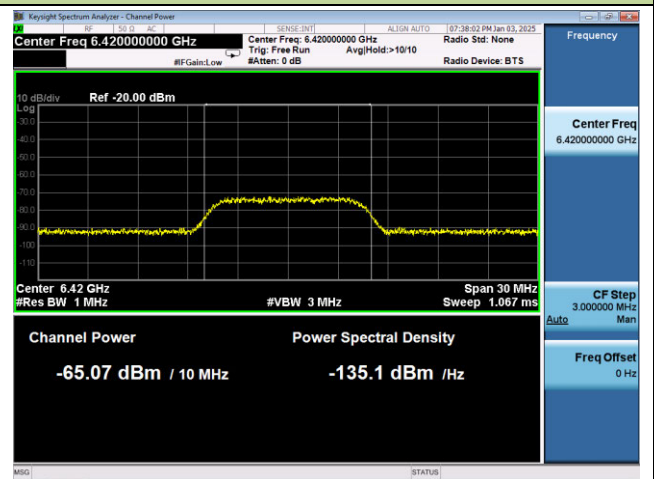
802.11be-EHT320 / CH63 (Low Edge)



802.11be-EHT320 / CH63 (Middle)

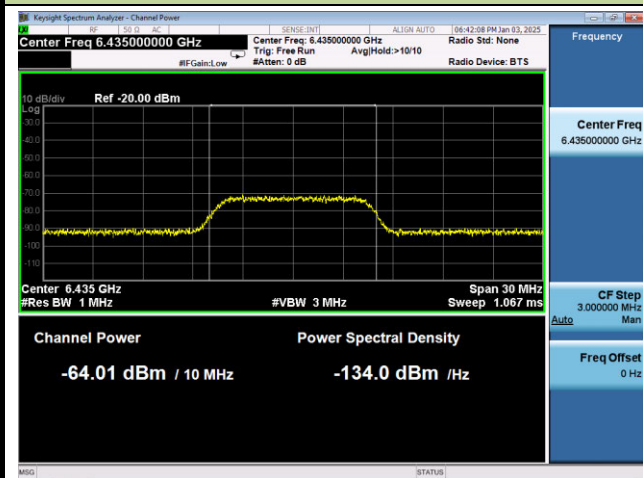


802.11be-EHT320 / CH63 (High Edge)

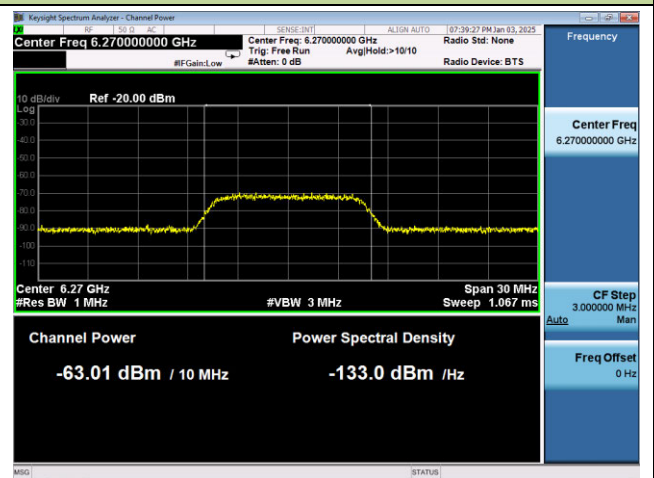


Incumbent Signal Calibration Plots (NII-6 Band) for AP Mode

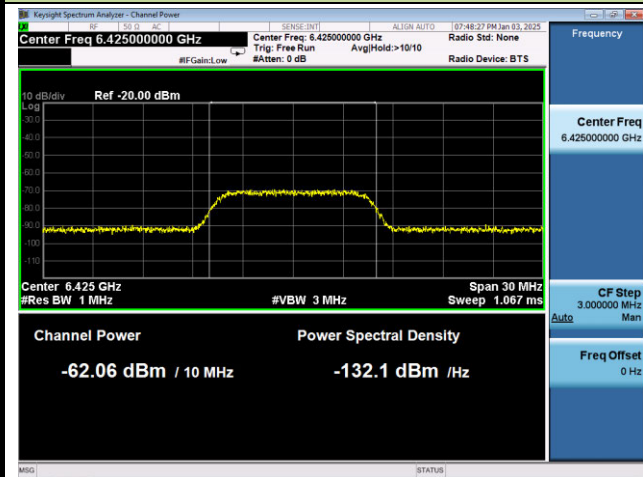
802.11be-EHT20 / CH97



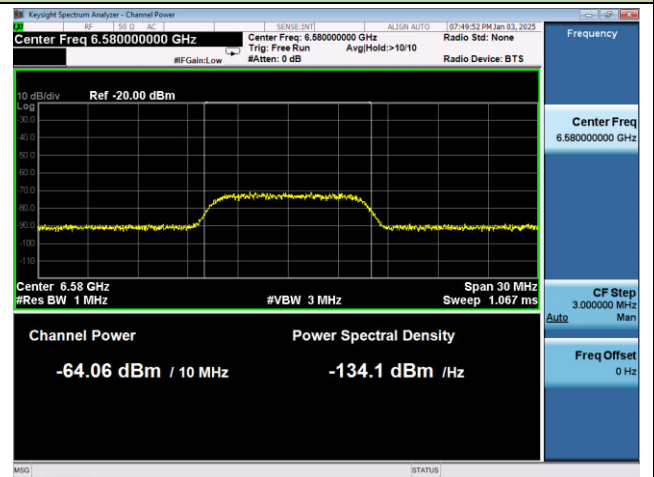
802.11be-EHT320 / CH95 (Low Edge)



802.11be-EHT320 / CH95 (Middle)

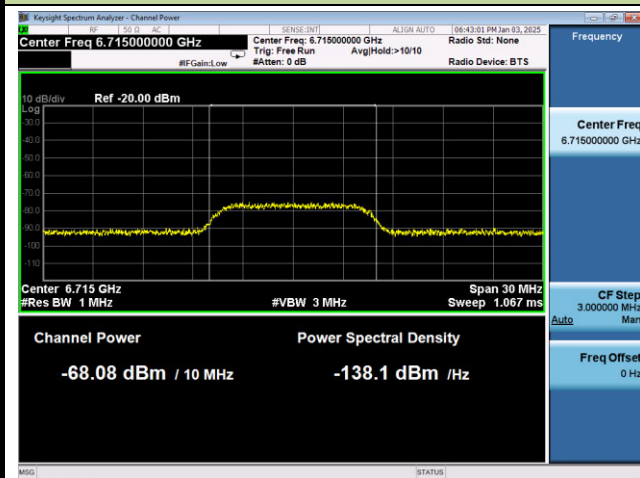


802.11be-EHT320 / CH95 (High Edge)

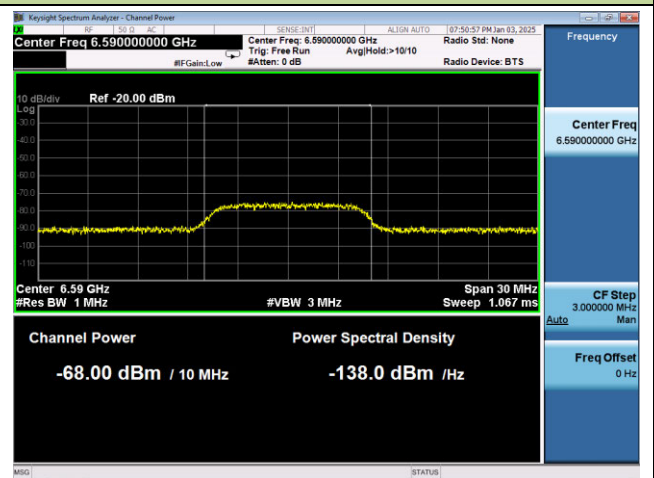


Incumbent Signal Calibration Plots (NII-7 Band) for AP Mode

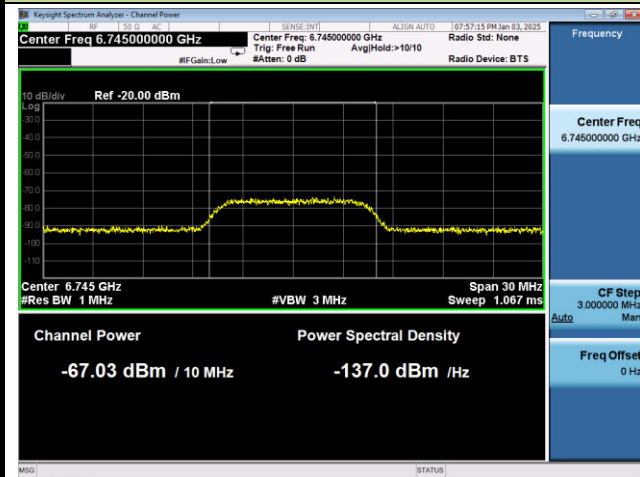
802.11be-EHT20 / CH153



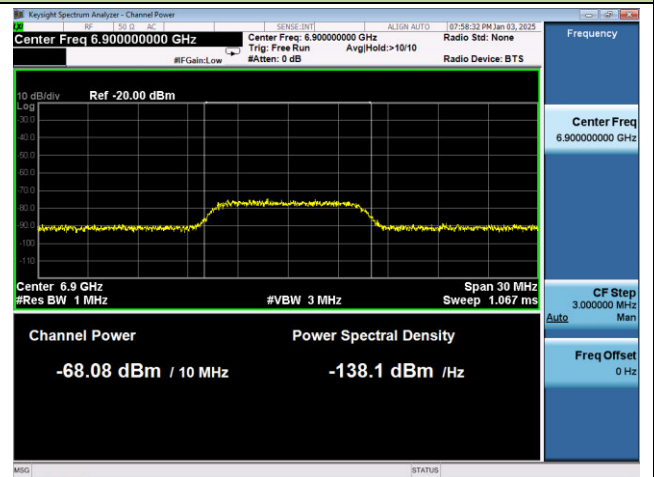
802.11be-EHT320 / CH159 (Low Edge)



802.11be-EHT320 / CH159 (Middle)

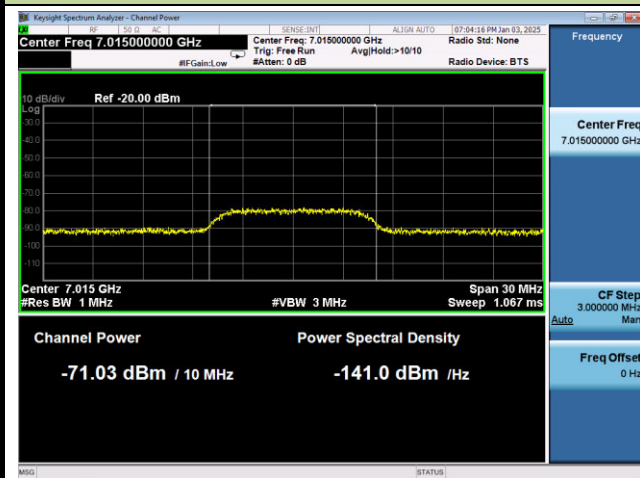


802.11be-EHT320 / CH159 (High Edge)

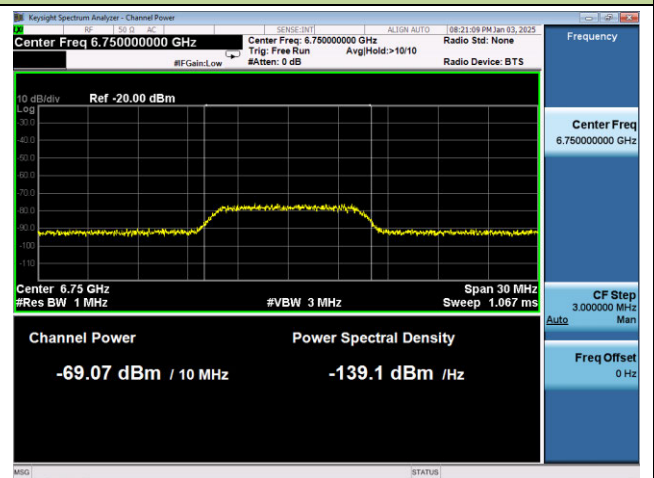


Incumbent Signal Calibration Plots (NII-8 Band) for AP Mode

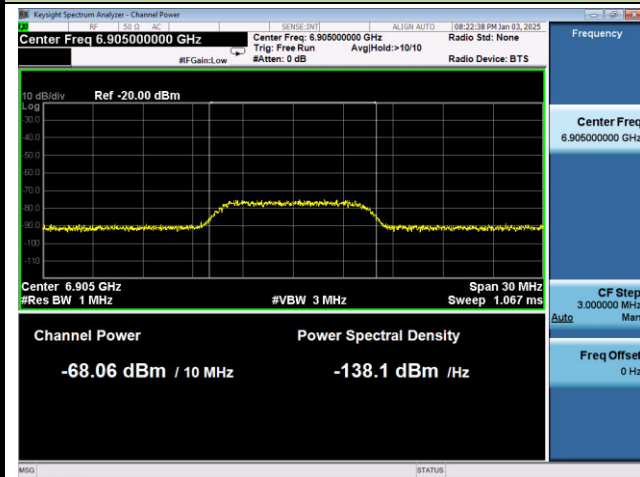
802.11be-EHT20 / CH213



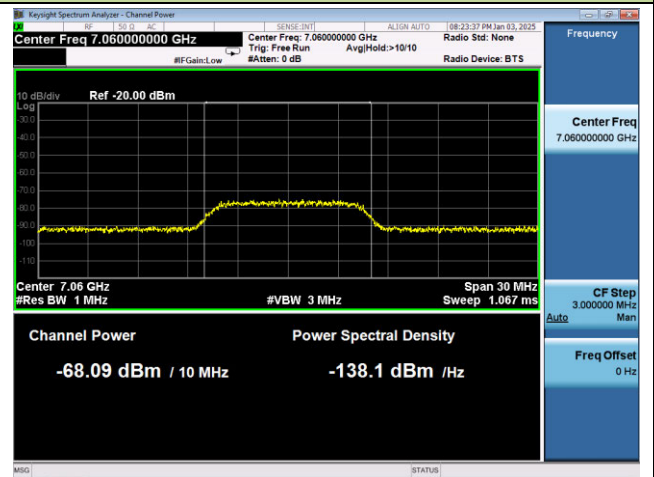
802.11be-EHT320 / CH191 (Low Edge)



802.11be-EHT320 / CH191 (Middle)

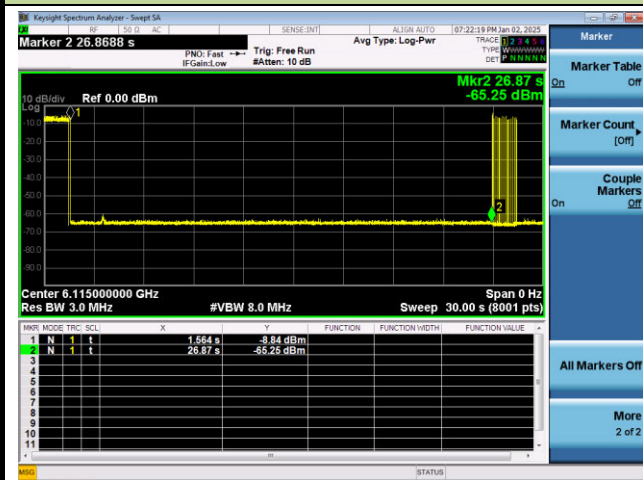


802.11be-EHT320 / CH191 (High Edge)

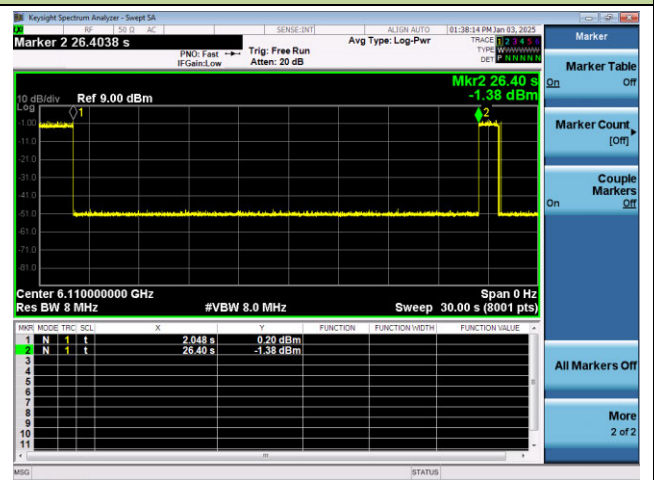


Test Result of EUT ceased transmission (NII-5 Band) for AP Mode

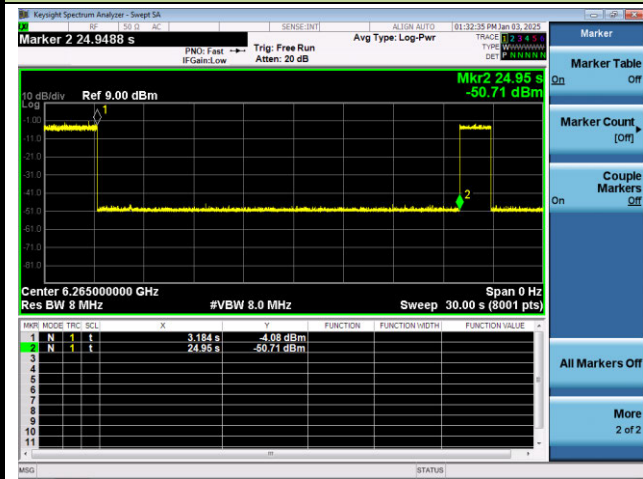
802.11be-EHT20 / CH33



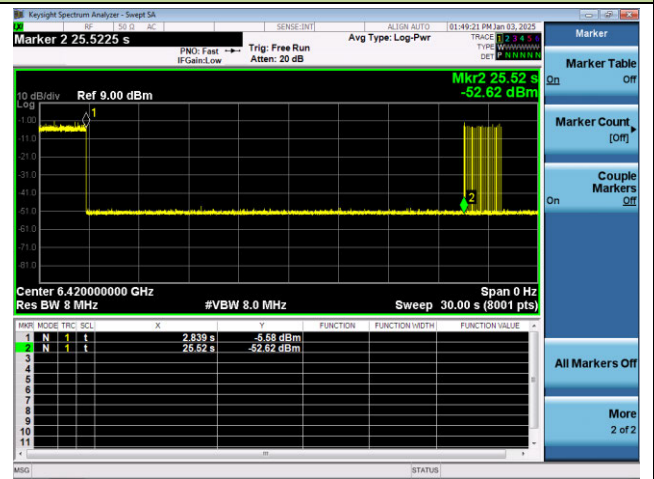
802.11be-EHT320 / CH63 (Low Edge)



802.11be-EHT320 / CH63 (Middle)

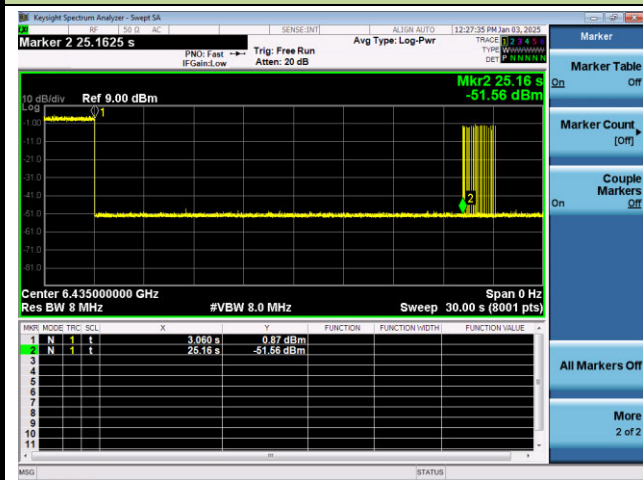


802.11be-EHT320 / CH63 (High Edge)

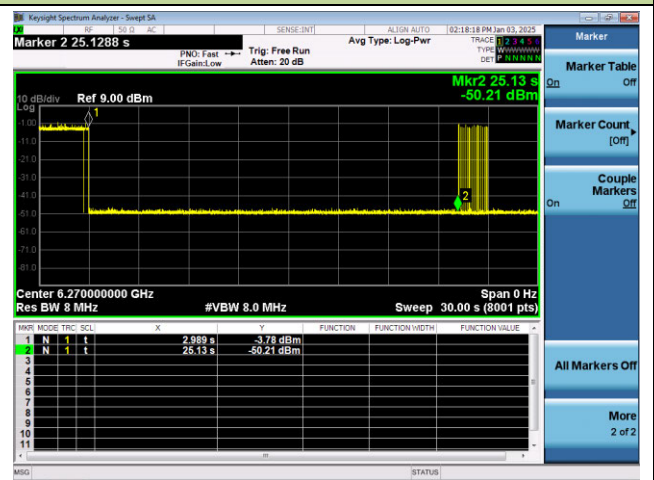


Test Result of EUT ceased transmission (NII-6 Band) for AP Mode

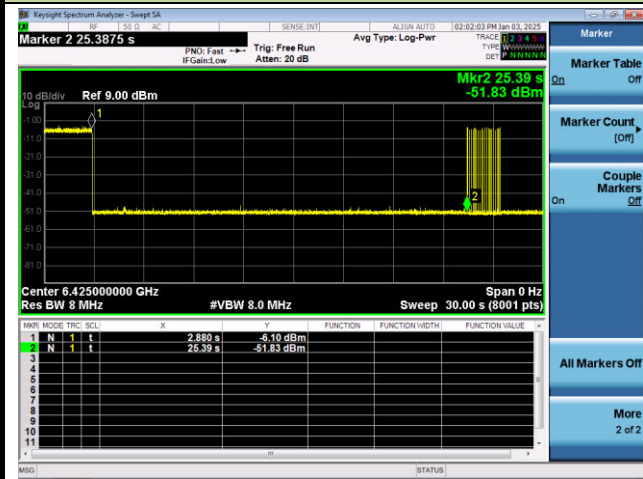
802.11be-EHT20 / CH97



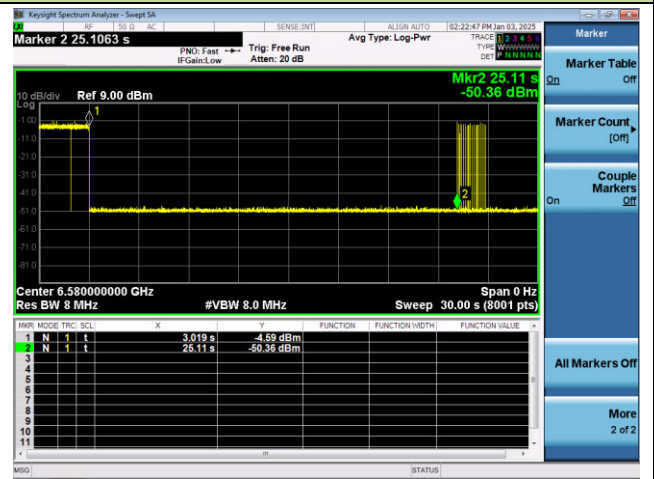
802.11be-EHT320 / CH95 (Low Edge)



802.11be-EHT320 / CH95 (Middle)

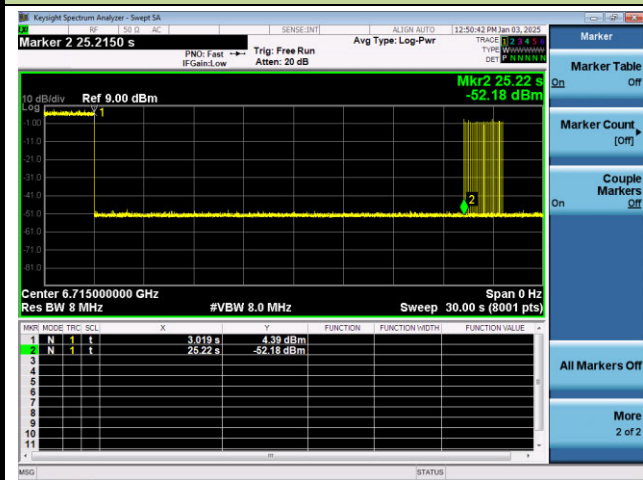


802.11be-EHT320 / CH95 (High Edge)

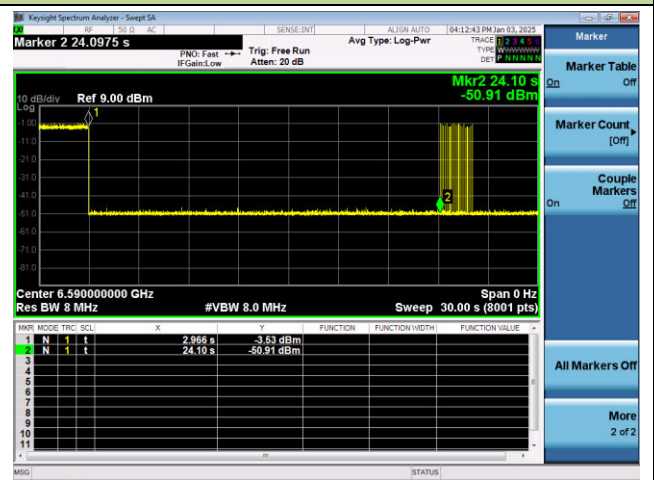


Test Result of EUT ceased transmission (NII-7 Band) for AP Mode

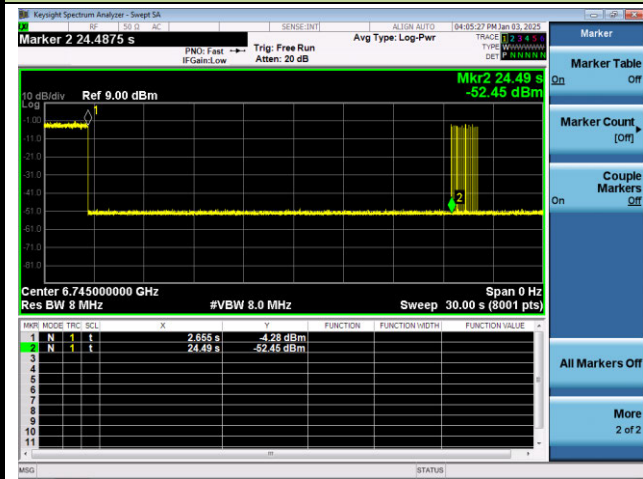
802.11be-EHT20 / CH153



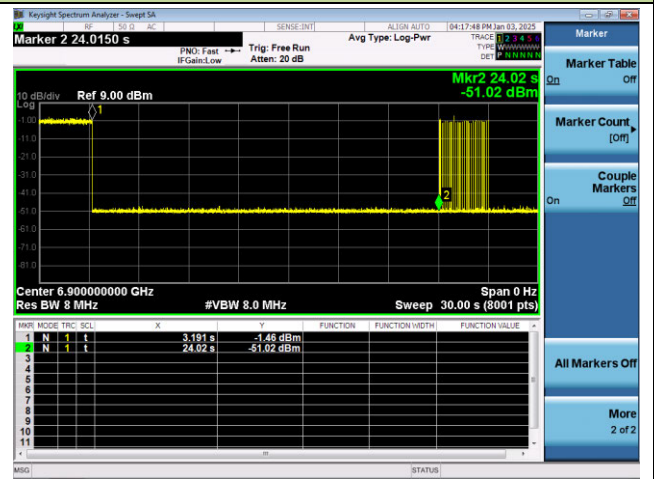
802.11be-EHT320 / CH159 (Low Edge)



802.11be-EHT320 / CH159 (Middle)

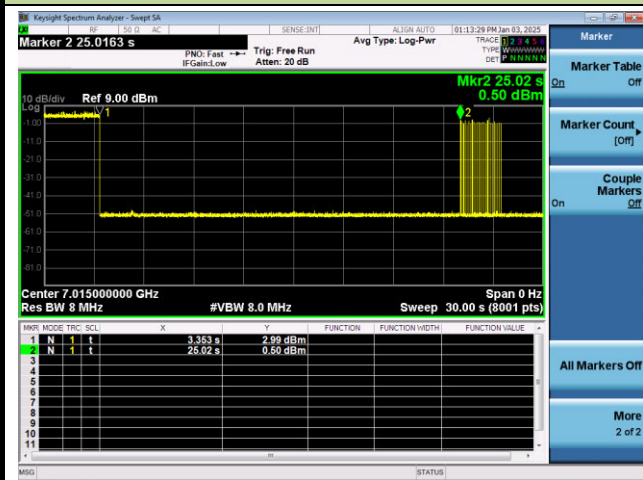


802.11be-EHT320 / CH159 (High Edge)

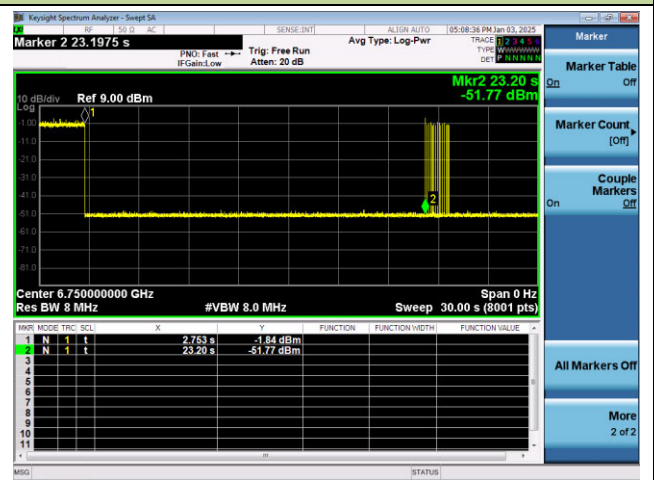


Test Result of EUT ceased transmission (NII-8 Band) for AP Mode

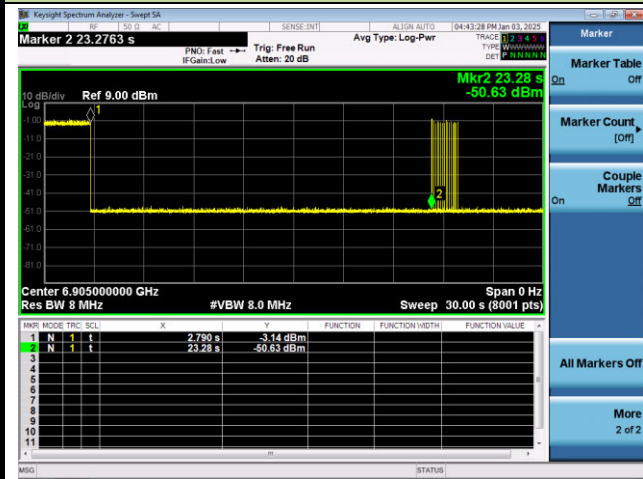
802.11be-EHT20 / CH213



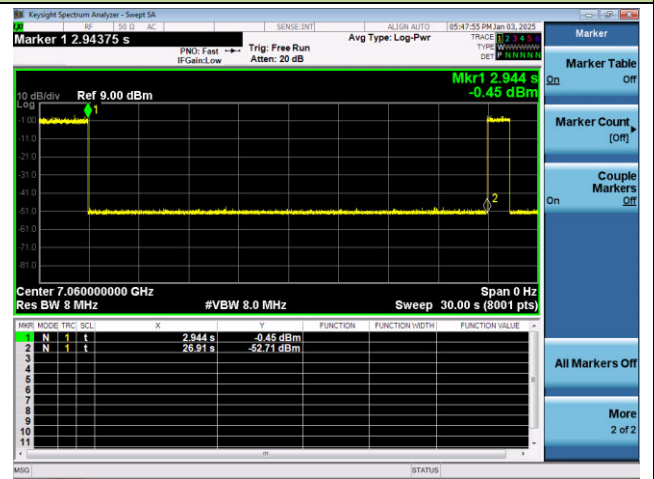
802.11be-EHT320 / CH191 (Low Edge)



802.11be-EHT320 / CH191 (Middle)



802.11be-EHT320 / CH191 (High Edge)



Test Site	WJ-SR7	Test Engineer	Jake Lan
Test Date	2025-01-16 ~ 2025-01-20	Test Mode	Mesh Mode

Test Channel	Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	AWGN Power (dBm)	Ant. Gain (dBi)	Adjust Power (dBm)	Detection Limit (dBm)	Detected Number	Detection Probability (%)	Limit (%)	Test Result
Operation Band: U-NII 5											
21	20	6055	6055	-64	5.44	-69.44	≤ -62.0	10	100	90	Pass
63	320	6265	6110	-63	5.44	-68.44	≤ -62.0	10	100	90	Pass
63	320	6265	6265	-64	5.44	-69.44	≤ -62.0	10	100	90	Pass
63	320	6265	6420	-62	5.44	-67.44	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 6											
101	20	6455	6455	-67	4.54	-71.54	≤ -62.0	10	100	90	Pass
95	320	6425	6270	-64	4.54	-68.54	≤ -62.0	10	100	90	Pass
95	320	6425	6425	-63	4.54	-67.54	≤ -62.0	10	100	90	Pass
95	320	6425	6580	-64	4.54	-68.54	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 7											
149	20	6695	6695	-68	4.15	-72.15	≤ -62.0	10	100	90	Pass
159	320	6745	6590	-67	4.15	-71.15	≤ -62.0	10	100	90	Pass
159	320	6745	6745	-66	4.15	-70.15	≤ -62.0	10	100	90	Pass
159	320	6745	6900	-67	4.15	-71.15	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 8											
213	20	7015	7015	-69	3.71	-72.71	≤ -62.0	10	100	90	Pass
191	320	6905	6750	-68	3.71	-71.71	≤ -62.0	10	100	90	Pass
191	320	6905	6905	-67	3.71	-70.71	≤ -62.0	10	100	90	Pass
191	320	6905	7060	-67	3.71	-70.71	≤ -62.0	10	100	90	Pass

Note 1: Adjust Power (dBm) = AWGN Power (dBm) – Antenna Gain (dBi).

Note 2: Conducted measurements are used.

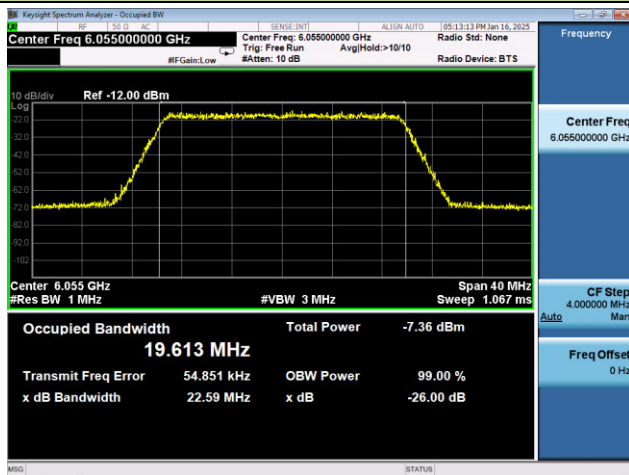
Test Site	WJ-SR7	Test Engineer	Jake Lan
Test Date	2025-01-15 ~ 2025-01-16	Test Mode	Mesh Mode

Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Tx Status
Operation Band: U-NII 5				
20	6055	6055	-73.44	ON
			-72.44	Minimal
			-69.44	OFF
320	6265	6110	-74.44	ON
			-73.44	Minimal
			-68.44	OFF
320	6265	6265	-76.44	ON
			-75.44	Minimal
			-67.44	OFF
320	6265	6420	-76.44	ON
			-75.44	Minimal
			-69.44	OFF
Operation Band: U-NII 6				
20	6455	6455	-77.54	ON
			-76.54	Minimal
			-71.54	OFF
320	6425	6270	-72.54	ON
			-71.54	Minimal
			-68.54	OFF
320	6425	6425	-72.54	ON
			-71.54	Minimal
			-68.54	OFF
320	6425	6580	-72.54	ON
			-71.54	Minimal
			-67.54	OFF

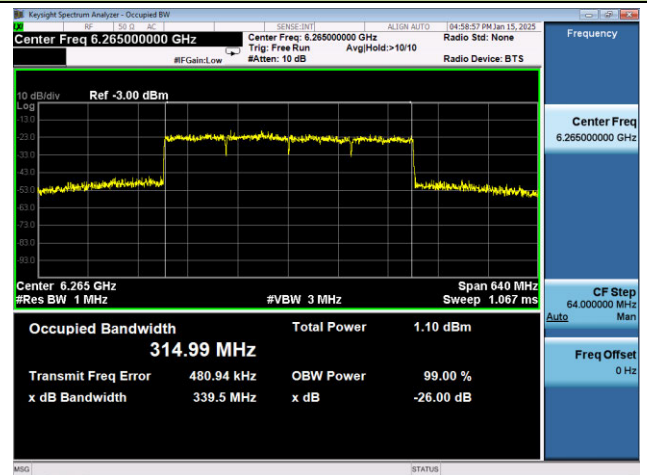
Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Status
Operation Band: U-NII 7				
20	6695	6695	-77.15	ON
			-76.15	Minimal
			-72.15	OFF
320	6745	6590	-76.15	ON
			-75.15	Minimal
			-71.15	OFF
320	6745	6745	-75.15	ON
			-74.15	Minimal
			-71.15	OFF
320	6745	6900	-74.15	ON
			-73.15	Minimal
			-70.15	OFF
Operation Band: U-NII 8				
20	7015	7015	-77.71	ON
			-76.71	Minimal
			-72.71	OFF
320	6905	6750	-75.71	ON
			-74.71	Minimal
			-71.71	OFF
320	6905	6905	-74.71	ON
			-73.71	Minimal
			-70.71	OFF
320	6905	7060	-74.71	ON
			-73.71	Minimal
			-70.71	OFF
Note: OFF: AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently ON: AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds				

EUT Tx Waveform for Mesh Mode

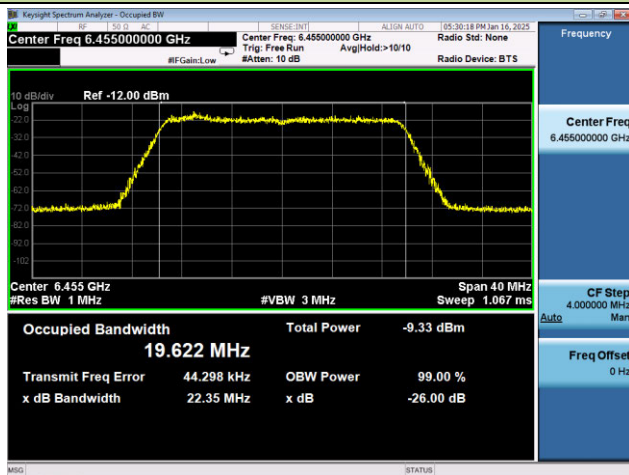
802.11be-EHT20 / CH21



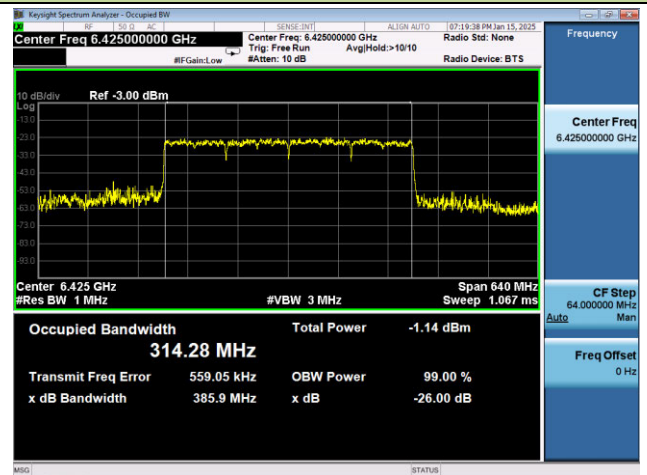
802.11be-EHT320 / CH63



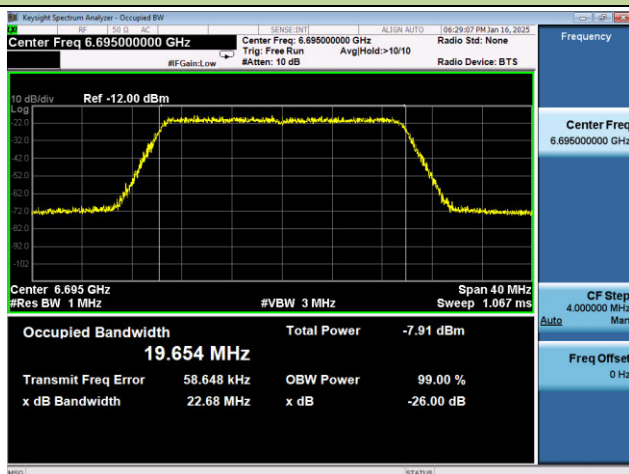
802.11be-EHT20 / CH101



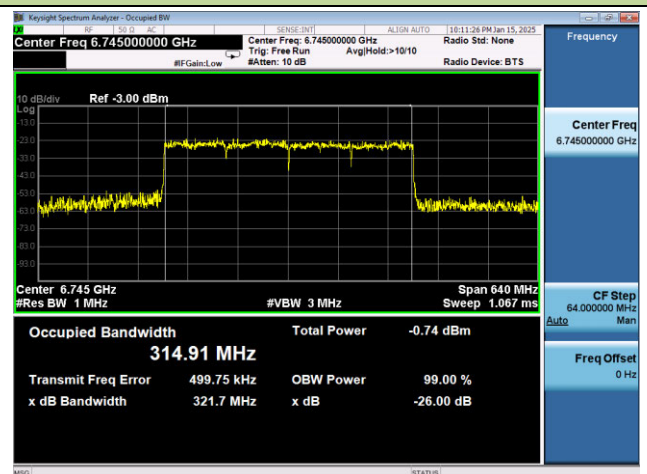
802.11be-EHT320 / CH95

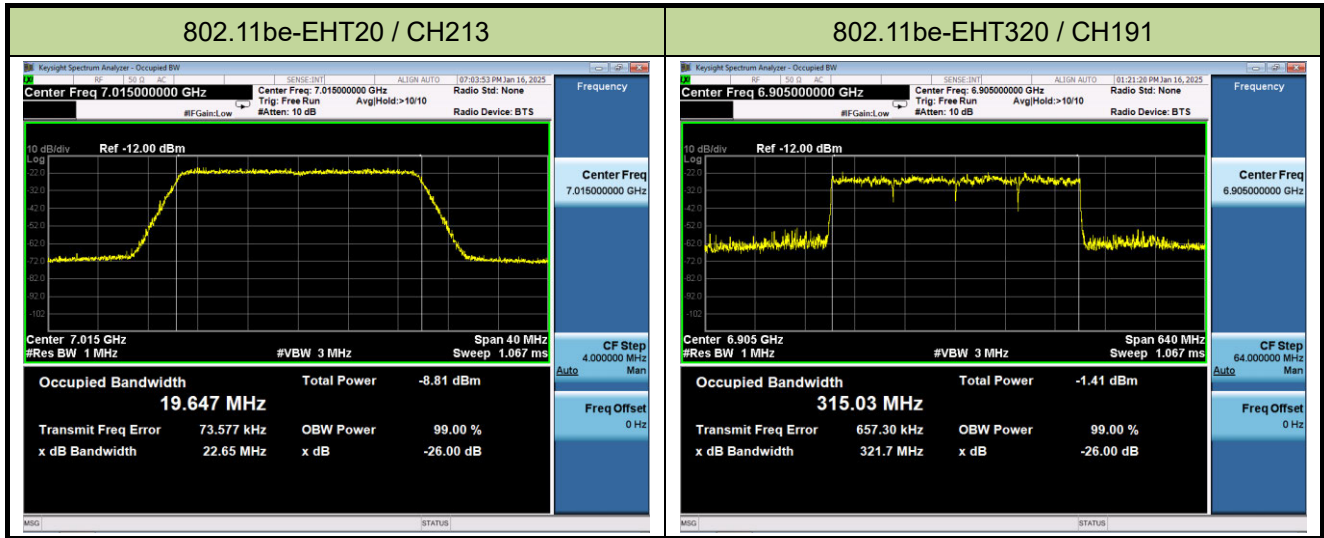


802.11be-EHT20 / CH149



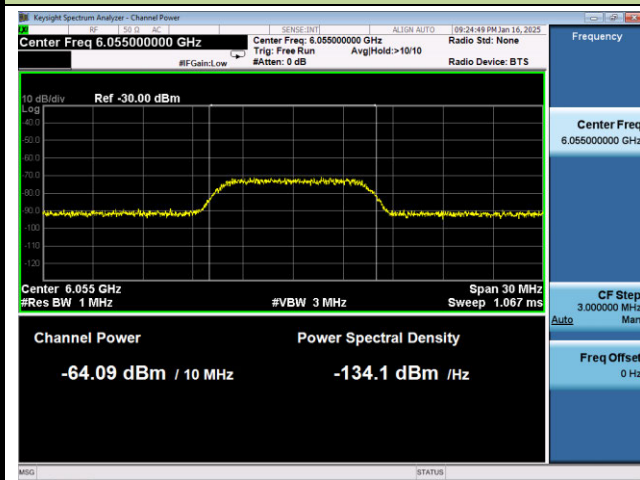
802.11be-EHT320 / CH159



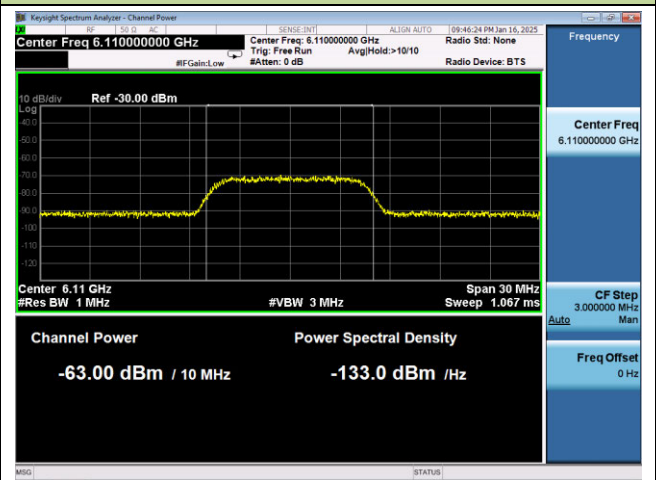


Incumbent Signal Calibration Plots (NII-5 Band) for Mesh Mode

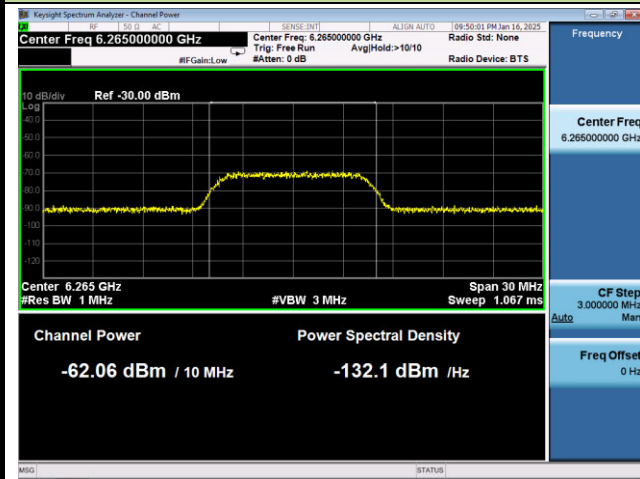
802.11be-EHT20 / CH21



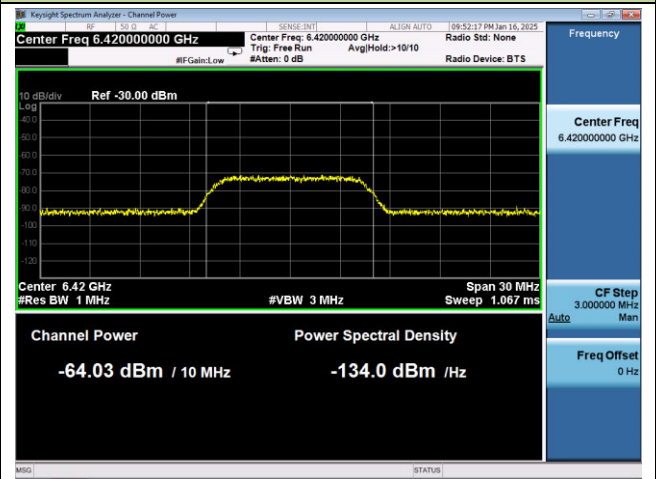
802.11be-EHT320 / CH63 (Low Edge)



802.11be-EHT320 / CH63 (Middle)

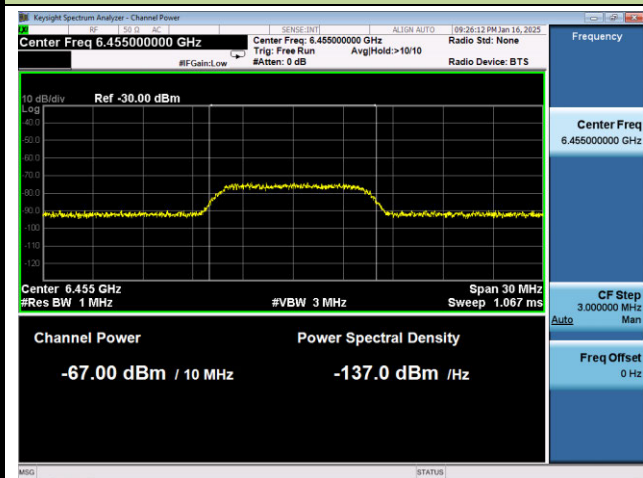


802.11be-EHT320 / CH63 (High Edge)

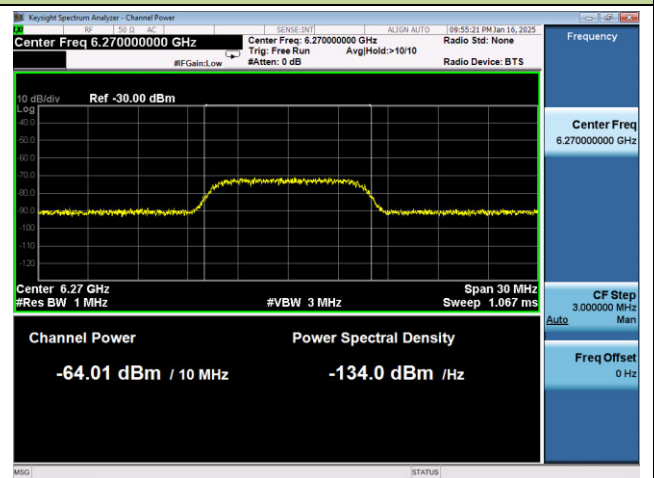


Incumbent Signal Calibration Plots (NII-6 Band) for Mesh Mode

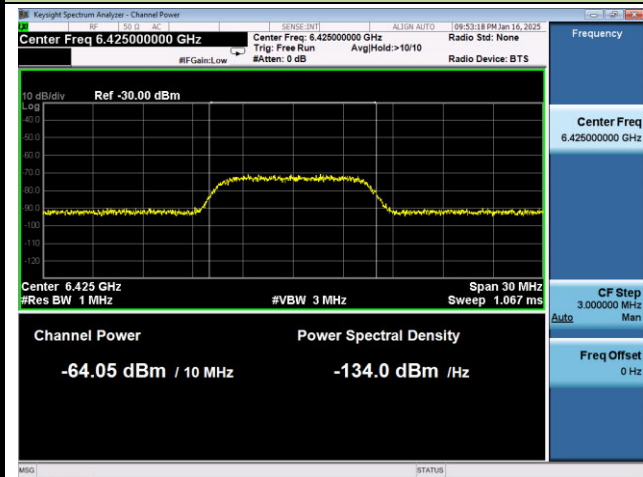
802.11be-EHT20 / CH101



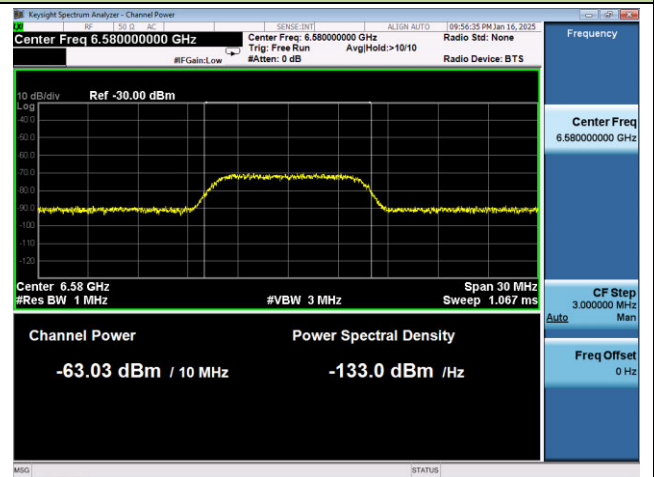
802.11be-EHT320 / CH95 (Low Edge)



802.11be-EHT320 / CH95 (Middle)

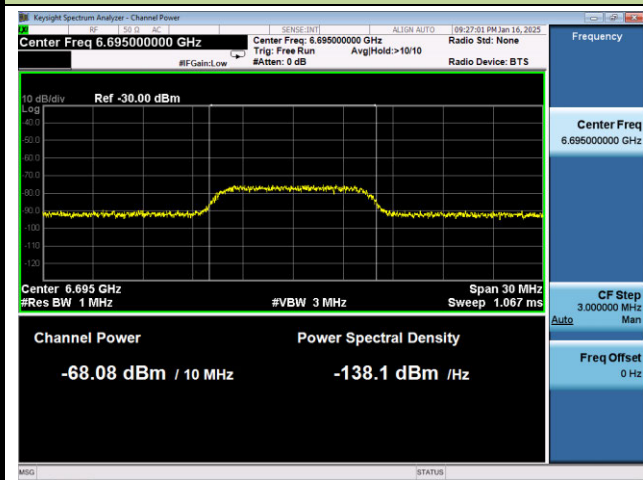


802.11be-EHT320 / CH95 (High Edge)

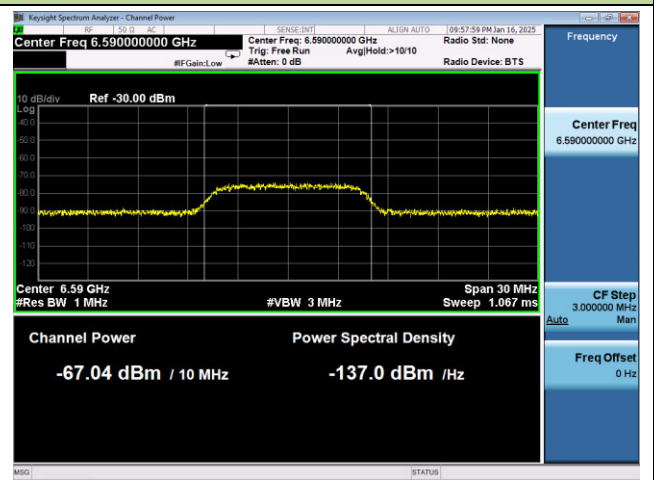


Incumbent Signal Calibration Plots (NII-7 Band) for Mesh Mode

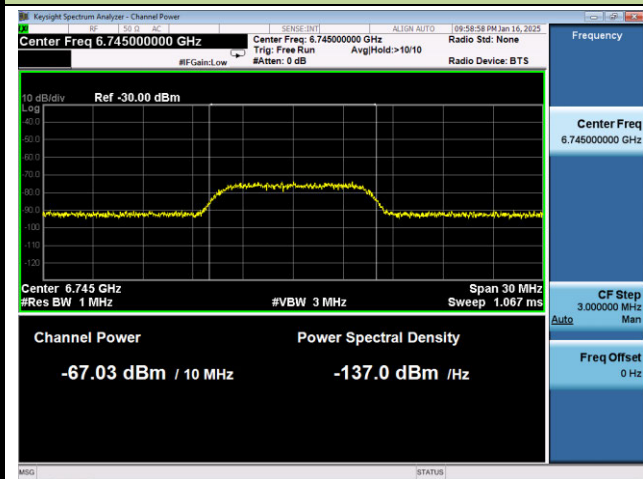
802.11be-EHT20 / CH149



802.11be-EHT320 / CH159 (Low Edge)



802.11be-EHT320 / CH159 (Middle)



802.11be-EHT320 / CH159 (High Edge)

