High Channel

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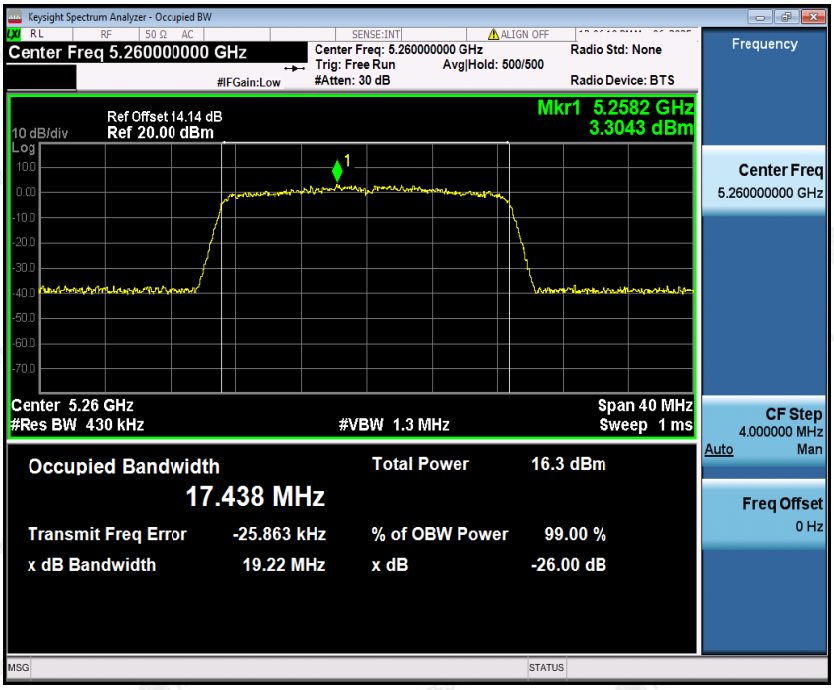
5250~5350MHz

Low Channel



Mid Channel

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High Channel

5470~5725MHz

Low Channel

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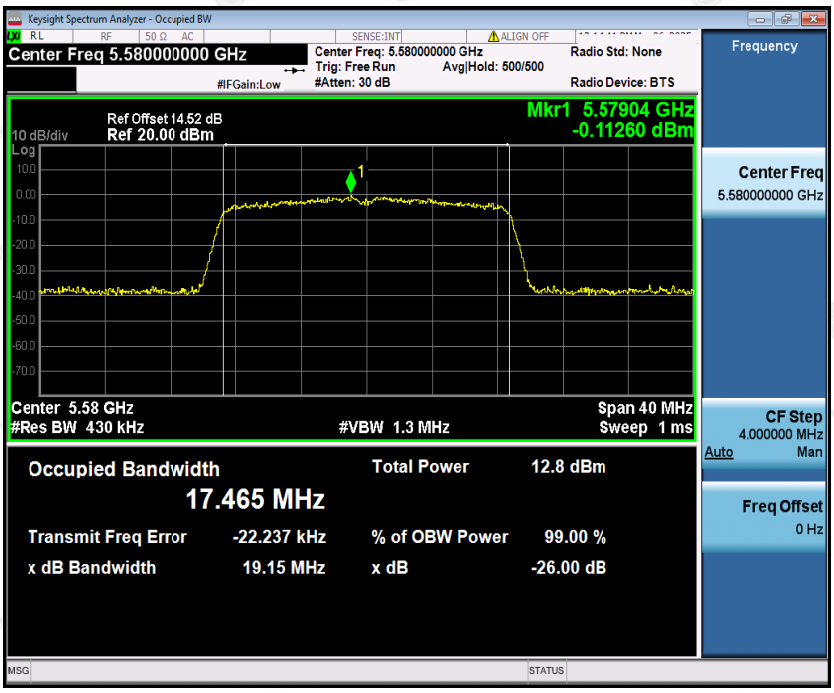
Mid Channel



High Channel

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IEEE802.11n HT40 mode

5150~5250MHz

Low Channel

High Channel

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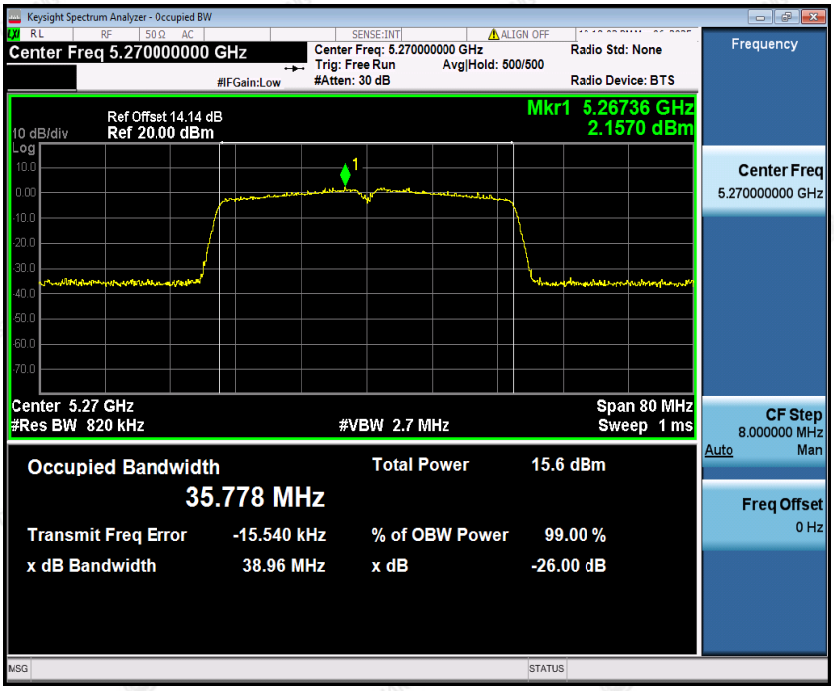
5250~5350MHz

Low Channel



High Channel

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5470~5725MHz

Low Channel

Mid Channel

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High Channel

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IEEE802.11ac HT20 mode

5150~5250MHz

Low Channel

Mid Channel

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High Channel

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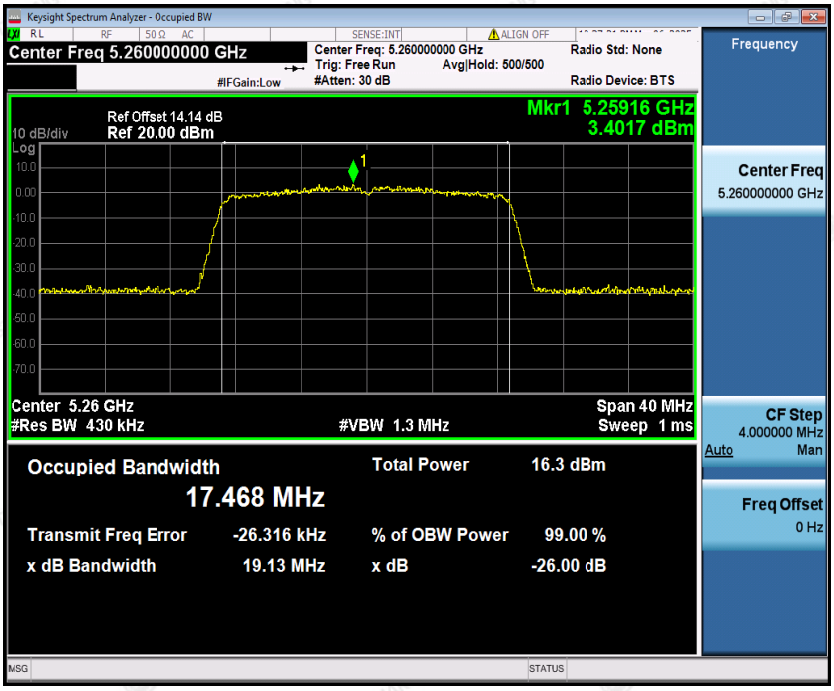
5250~5350MHz

Low Channel



Mid Channel

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High Channel

5470~5725MHz

Low Channel

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Mid Channel

High Channel

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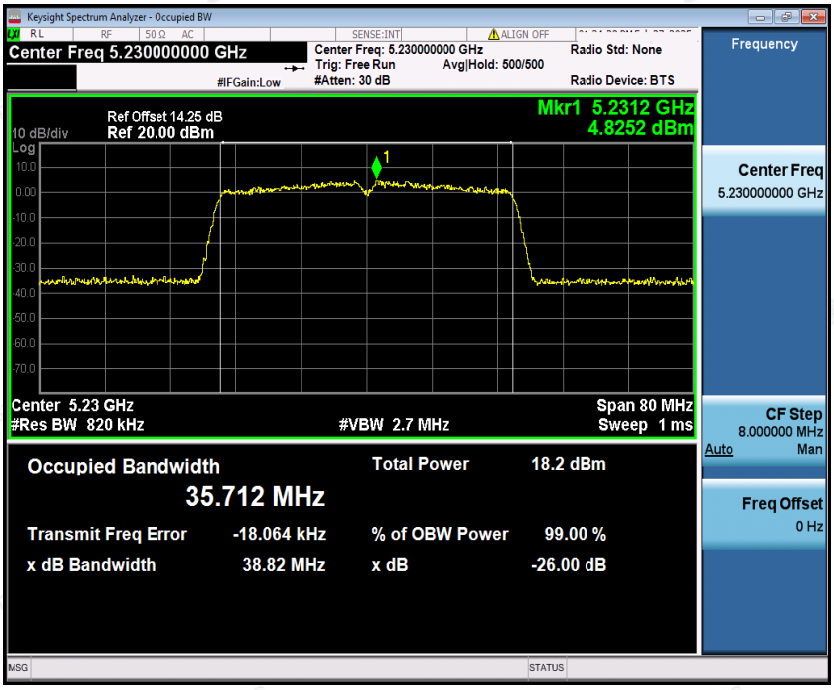
IEEE802.11ac HT40 mode

5150~5250MHz

Low Channel

High Channel



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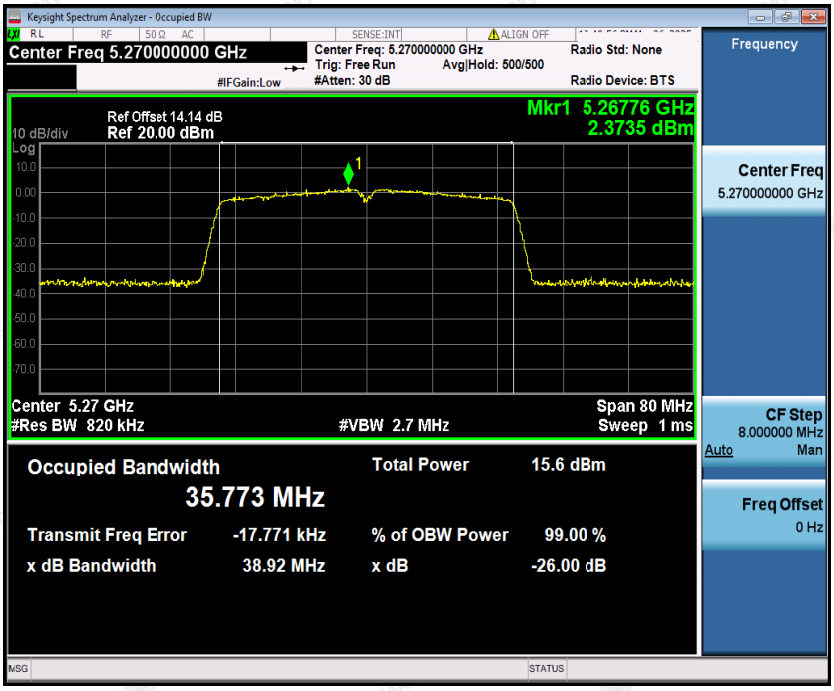
5250~5350MHz

Low Channel



High Channel

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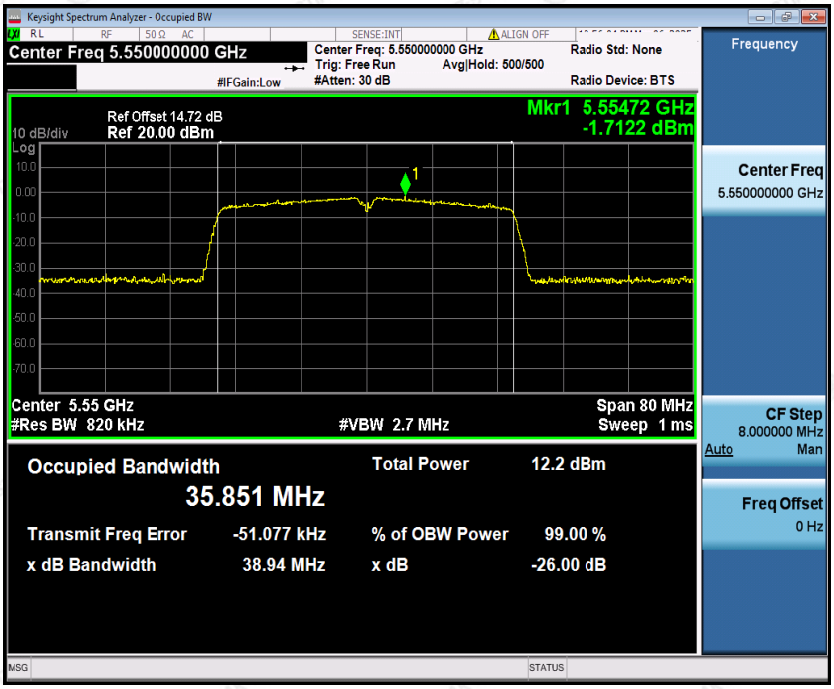
5470~5725MHz

Low Channel

Mid Channel



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High Channel

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IEEE802.11ac HT80 mode

5150~5250MHz

5250~5350MHz

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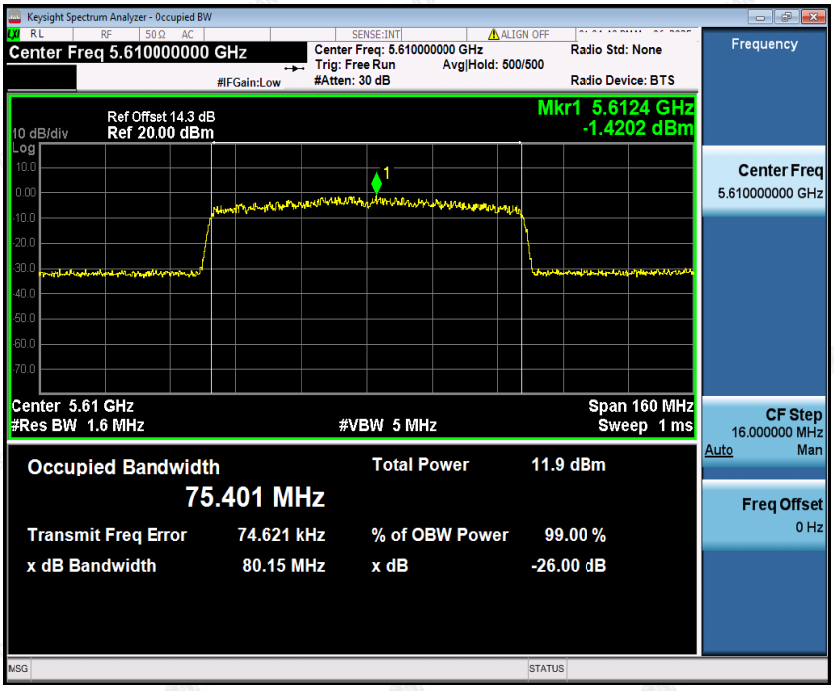
5470~5725MHz

Low Channel

High Channel



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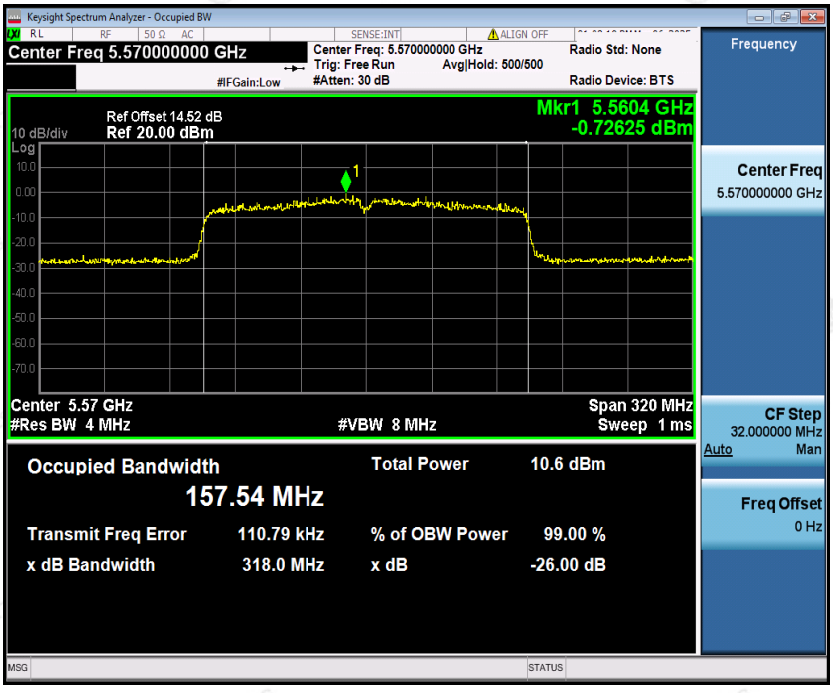
IEEE802.11ac HT160 mode

5150~5350MHz

5470~5725MHz



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IEEE802.11ax HE20 mode

5150~5250MHz

Low Channel

Mid Channel

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High Channel

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5250~5350MHz

Low Channel

Mid Channel

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High Channel

5470~5725MHz

Low Channel

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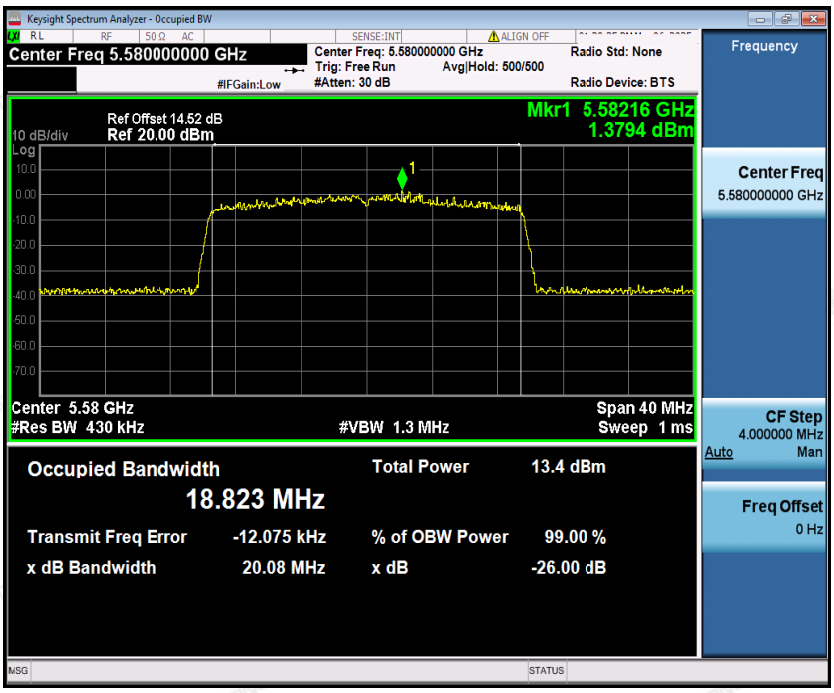
Mid Channel



High Channel

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IEEE802.11ax HE40 mode

5150~5250MHz

Low Channel

High Channel

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5250~5350MHz

Low Channel

High Channel

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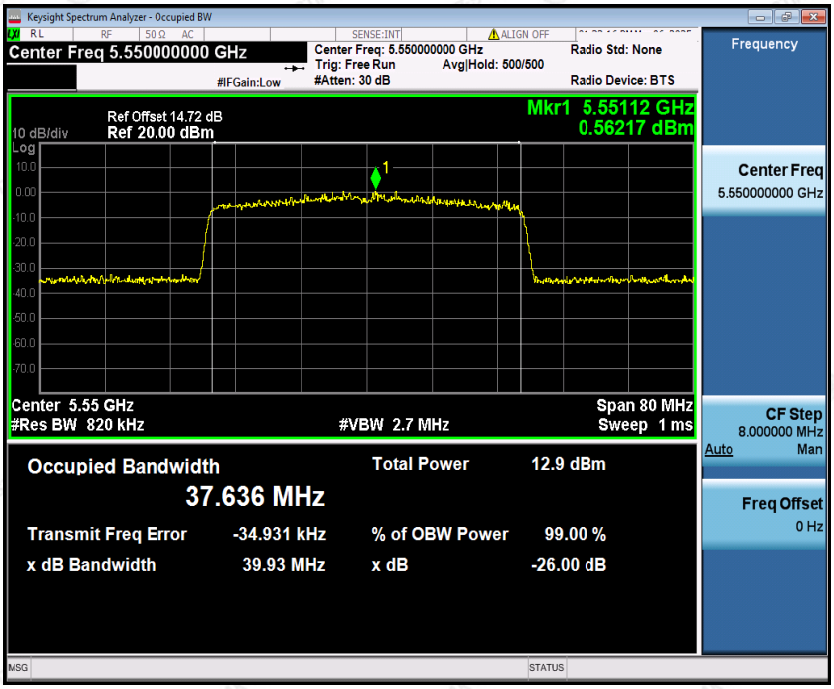
5470~5725MHz

Low Channel

Mid Channel



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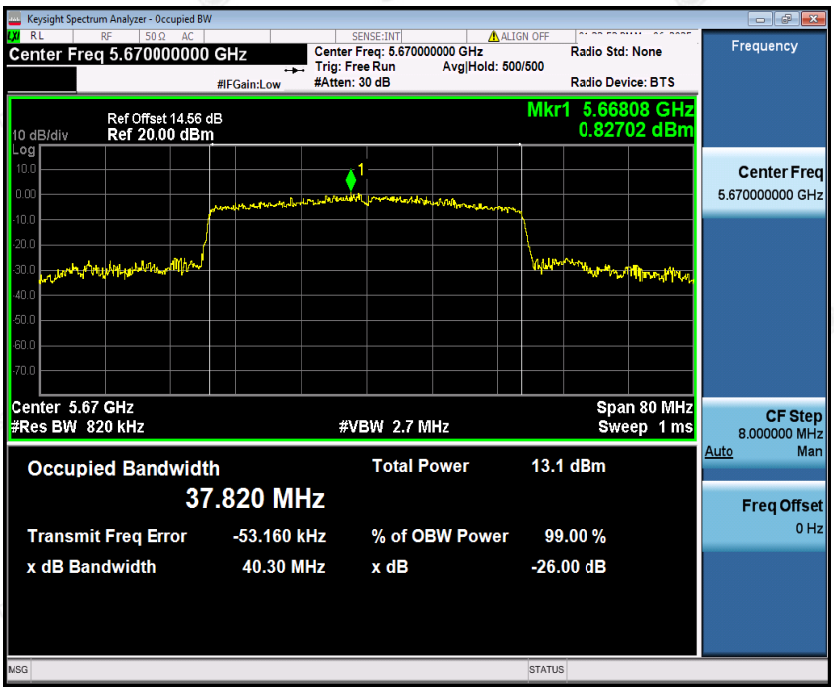
High Channel



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IEEE802.11ax HE80 mode

5150~5250MHz

5250~5350MHz

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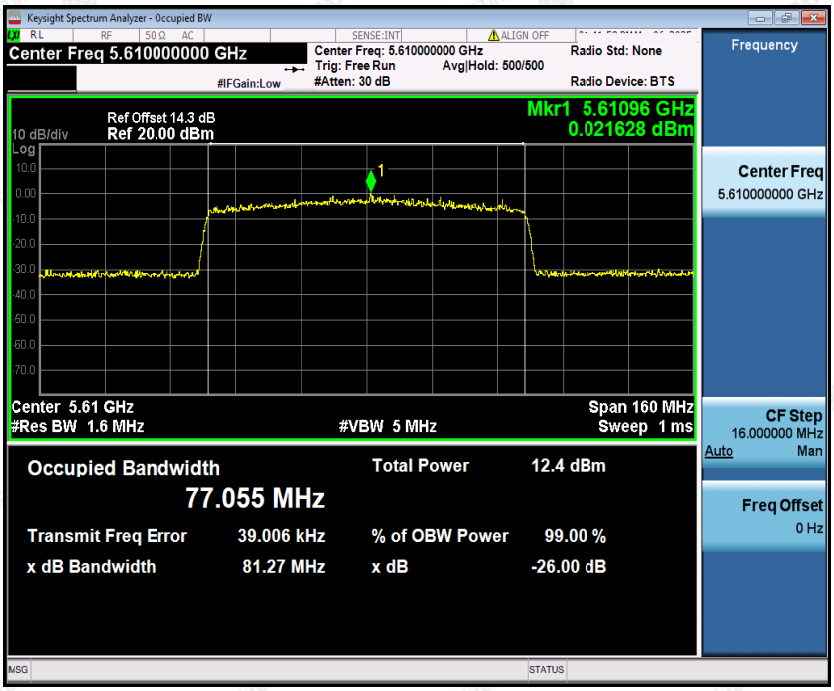
5470~5725MHz

Low Channel

High Channel



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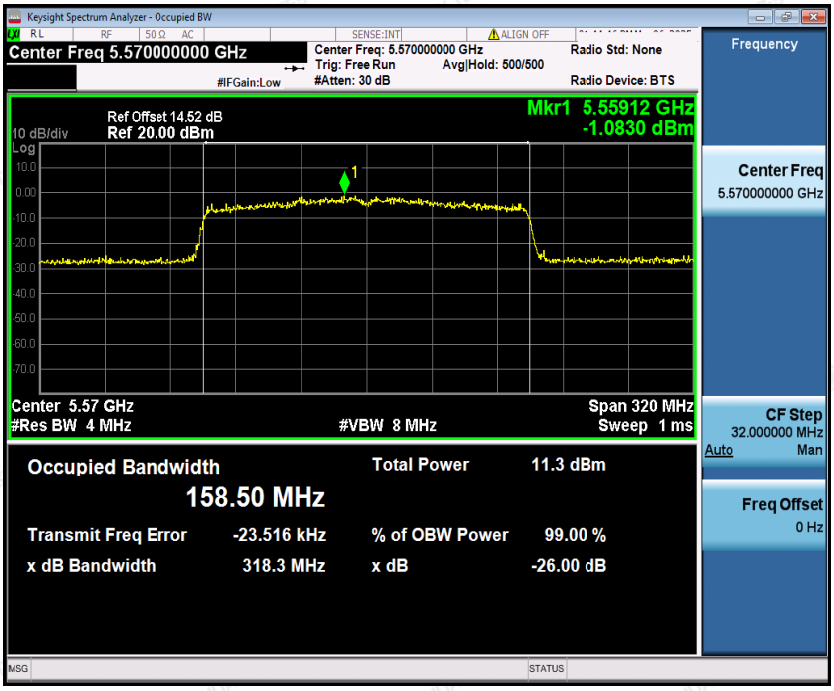
IEEE802.11ax HE160 mode

5150~5350MHz

5470~5725MHz



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IEEE802.11be EHT20 mode

5150~5250MHz

Low Channel

Mid Channel

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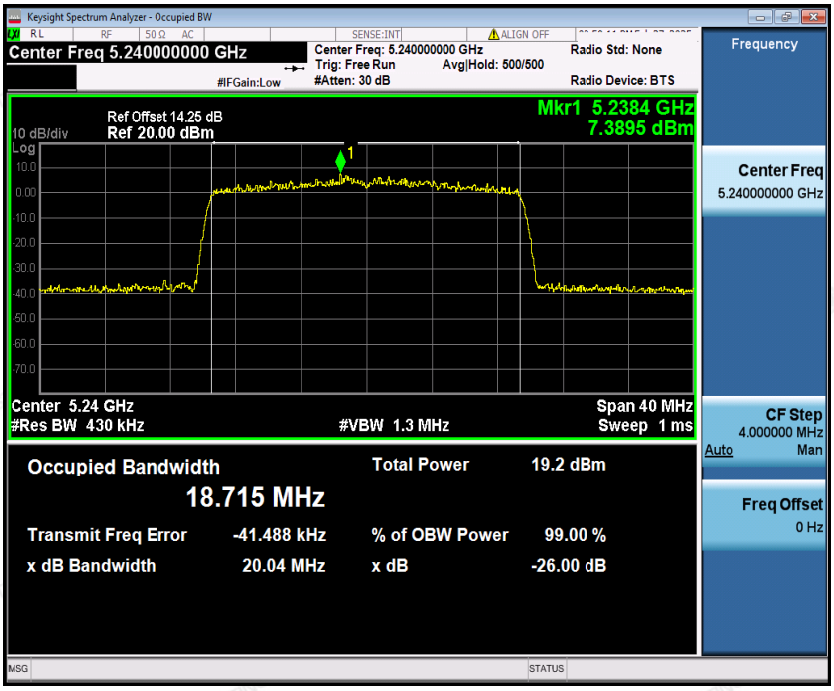
High Channel



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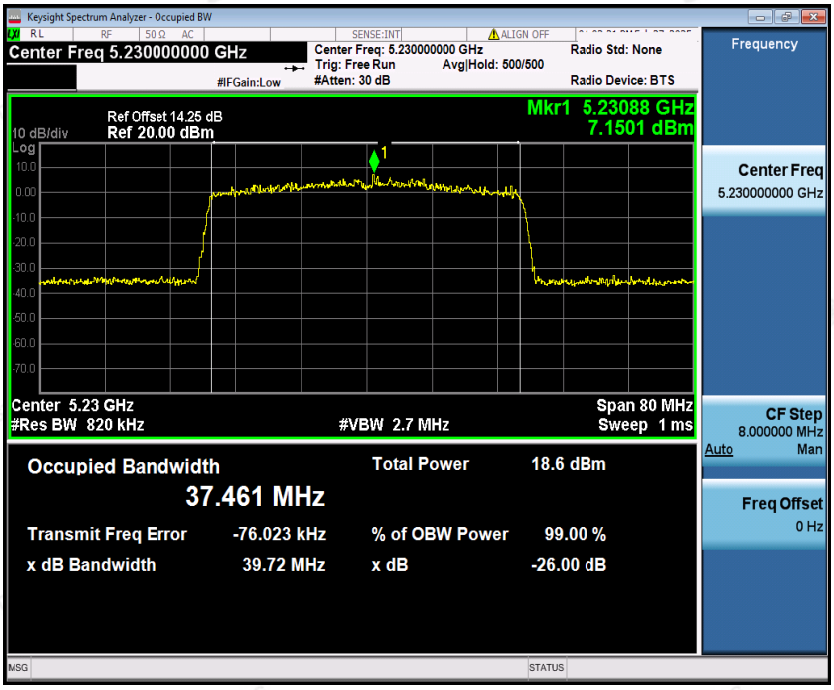
IEEE802.11be EHT40 mode

5150~5250MHz

Low Channel

High Channel



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IEEE802.11be EHT80 mode

5150~5250MHz

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6.2 Maximum Conducted Output Power

LIMIT

According to §15.407(a),

For the 5.15-5.25 GHz bands, the maximum conducted output power over the frequency band of operation shall not exceed 250mW.

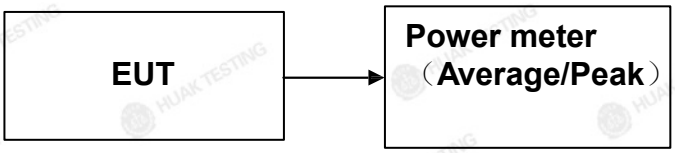
For the 5.25-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or 11dBm+10 log B, where B is the 26 dB emission bandwidth in megahertz.

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W

The peak power shall not exceed the limit as follow:

Test Configuration



The EUT was connected to a spectrum analyzer through a 50Ω RF cable.

TES TPROCEDURE

The testing follows Method PM of FCCKDB789033 D02General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF peak power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.

TEST RESULTS

No non-compliance noted

TEST RESULTS

No non-compliance noted

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Test Data

Testmode:IEEE802.11a mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5180	8.14	11.07	/	24.00
Mid	5200	9.05	11.29	/	24.00
High	5240	9.07	12.02	/	24.00

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5260	10.6	9.63	/	23.68
Mid	5280	9.58	10.27	/	23.67
High	5320	8.56	9.65	/	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5500	9.66	7.54	/	24.00
Mid	5580	8.29	7.08	/	23.67
High	5700	7.33	8.12	/	24.00

Testmode:IEEE802.11n HT20 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5180	7.37	11.16	12.68	24.00
Mid	5200	7.91	11.2	12.87	24.00
High	5240	8.88	11.9	13.66	24.00

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5250~5350MHz

Channel	Frequency(MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5260	11.56	9.51	13.67	23.82
Mid	5280	11.29	10.09	13.74	23.83
High	5320	8.73	9.57	12.18	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5500	10.28	7.35	12.07	24.00
Mid	5580	9.1	8.93	12.03	23.82
High	5700	7.21	8.06	10.67	24.00

Testmode:IEEE802.11n HT40 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5190	8.85	9.87	12.40	24.00
High	5230	7.13	10.5	12.14	24.00

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5270	10.12	8.37	12.34	24.00
Mid	5310	8.87	8.28	11.60	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5510	8.51	7.97	11.26	24.00
Mid	5550	7.42	8.03	10.75	24.00
High	5670	7.71	7.38	10.56	24.00

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Testmode:IEEE802.11ac HT20 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5180	7.96	11.25	12.92	24.00
Mid	5200	8.84	11.48	13.37	24.00
High	5240	10.05	12.25	14.30	24.00

5250~5350MHz

Channel	Frequency(MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5260	11.93	9.51	13.90	23.81
Mid	5280	11.91	10.4	14.23	23.82
High	5320	10.87	10.05	13.49	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5500	10.44	7.29	12.15	24.00
Mid	5580	8.22	7.96	11.10	23.79
High	5700	7.17	8.39	10.83	24.00

Testmode:IEEE802.11ac HT40 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5190	7.5	9.8	11.81	24.00
High	5230	7.96	10.66	12.53	24.00

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5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5270	9.36	8.57	11.99	24.00
Mid	5310	7.36	7.83	10.61	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5510	8.6	8.15	11.39	24.00
Mid	5550	7.32	7.76	10.56	24.00
High	5670	7.69	7.29	10.50	24.00

Testmode:IEEE802.11ac HT80 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5210	8.72	8.91	11.83	24.00

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5290	8.00	8.54	11.29	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5530	8.6	8.19	11.41	24.00
High	5610	7.34	7.91	10.64	24.00

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Testmode:IEEE802.11ac HT160 mode

5150~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5250	7.06	7.84	10.48	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5570	7.35	8.81	11.15	24.00

Testmode:IEEE802.11ax HE20 mode

5150~5250MHz

Channel	Frequency(MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5180	8.33	10.79	12.74	24.00
Mid	5200	8.9	10.99	13.08	24.00
High	5240	10.04	11.67	13.94	24.00

5250~5350MHz

Channel	Frequency(MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5260	11.62	9.79	13.81	24.00
Mid	5280	11.36	10.29	13.87	24.00
High	5320	8.92	9.64	12.31	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5500	10.08	7.44	11.97	24.00
Mid	5580	8.97	8.16	11.59	24.00
High	5700	7.45	7.21	10.34	24.00

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Testmode:IEEE802.11ax HE40 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5190	7.42	9.88	11.83	24.00
Mid	5230	8.49	10.48	12.61	24.00

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5270	9.58	8.31	12.00	24.00
Mid	5310	7.35	8.07	10.74	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5510	8.36	7.78	11.09	24.00
Mid	5550	7.68	7.79	10.75	24.00
High	5670	7.03	8.49	10.83	24.00

Testmode:IEEE802.11ax HE80 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5210	8.67	9.12	11.91	24.00

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5290	8.33	8.83	11.60	24.00

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5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5530	8.46	7.32	10.94	24.00
High	5610	7.54	7.28	10.42	24.00

Testmode:IEEE802.11ax HE160 mode

5150~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5250	8.1	7.5	10.82	24.00

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5570	8.37	7.38	10.91	24.00

Testmode:IEEE802.11be EHT20 mode

5150~5250MHz

Channel	Frequency(MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5180	8.11	10.97	12.78	24.00
Mid	5200	8.55	11.54	13.31	24.00
High	5240	10.08	11.97	14.14	24.00

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Testmode:IEEE802.11be EHT40 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5190	7.35	10.21	12.02	24.00
Mid	5230	8.48	10.6	12.68	24.00

Testmode:IEEE802.11be EHT80 mode

5150~5250MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5210	8.96	8.4	11.70	24.00

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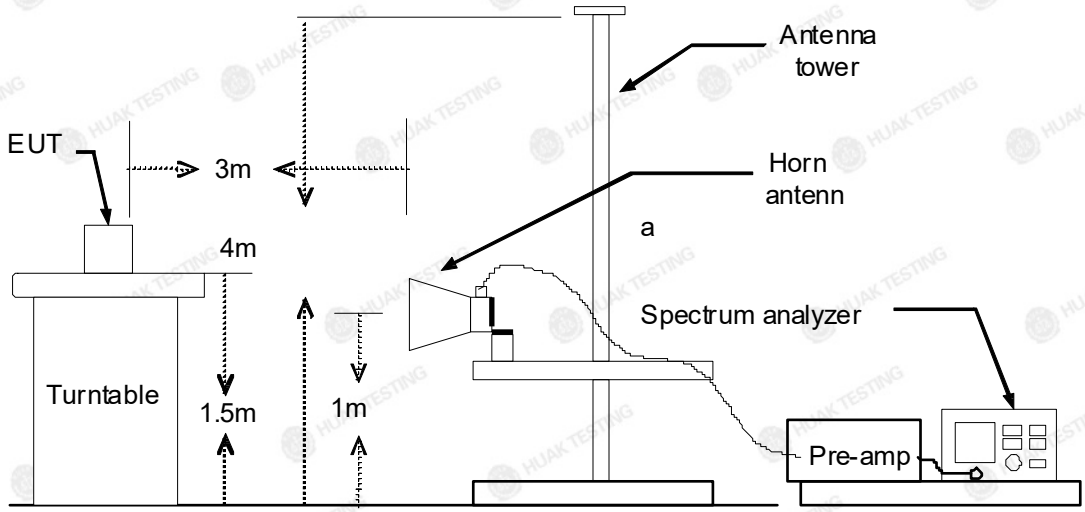
6.3 Band Edges Measurement

LIMIT

According to §15.407(b),
(1) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
(2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

Test Configuration



TESTPROCEDURE

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
   (a) PEAK: RBW=1MHz /VBW=RBW*3=3MHz / Sweep=AUTO
   (b) AVERAGE: RBW=1MHz / Sweep=AUTO

   VBW=10Hz, when duty cycle is no less than 98 percent.

   VBW≧1/T, when duty cycle is less than98 percent, where is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
IEEE 802.11 a	100	-	-	10Hz
IEEE 802.11n/ac HT20/ax HE20	100	-	-	10Hz
IEEE 802.11n/ac HT40/ax HE40	100	-	-	10Hz
IEEE 802.11ac HT80/ax HE80	100	-	-	10Hz

TESTRESULTS

Refer to attach spectrum analyzer data chart.

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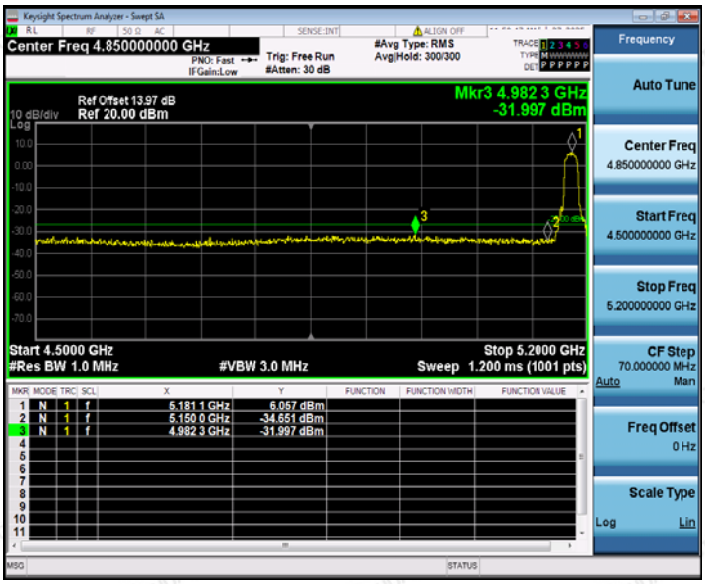
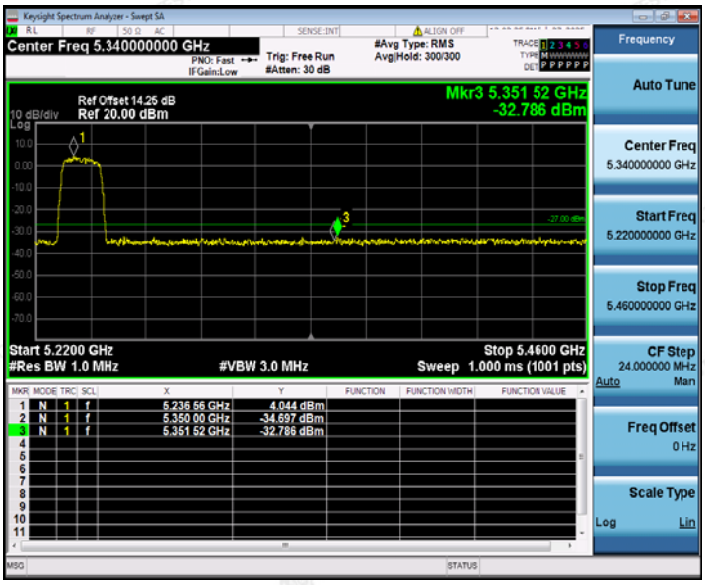
Antenna1

Band Edges(IEEE802.11a mode)

5180MHz



5240MHz



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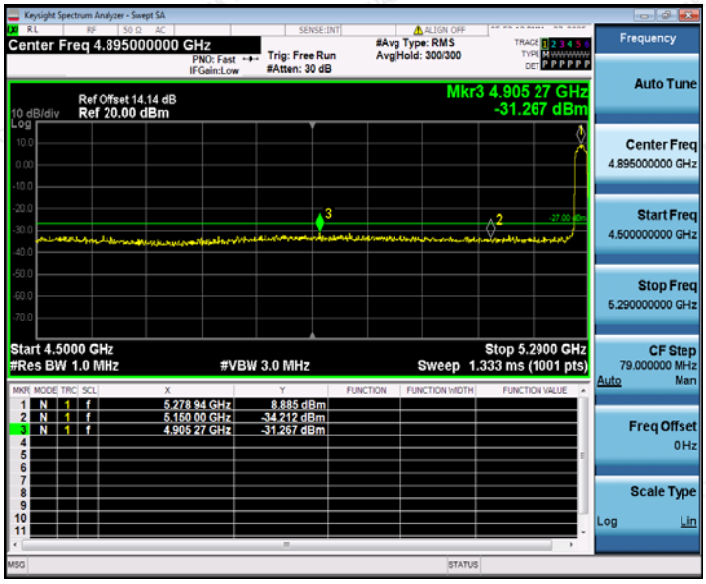
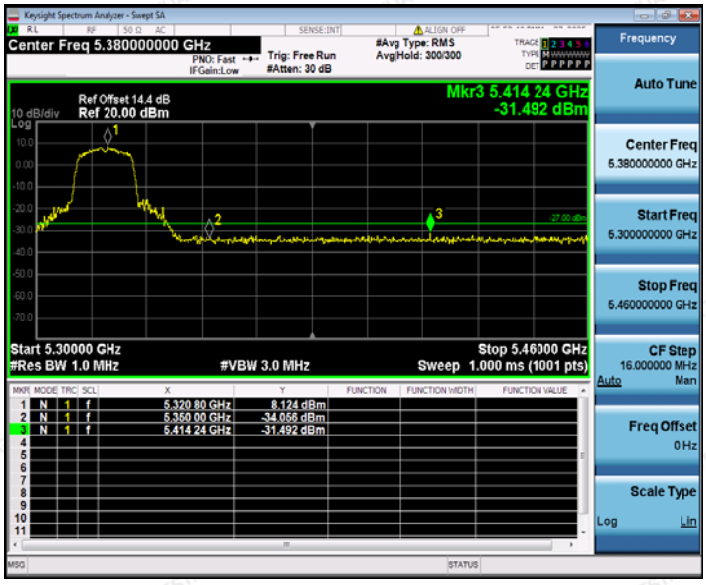
5260MHz



5320MHz



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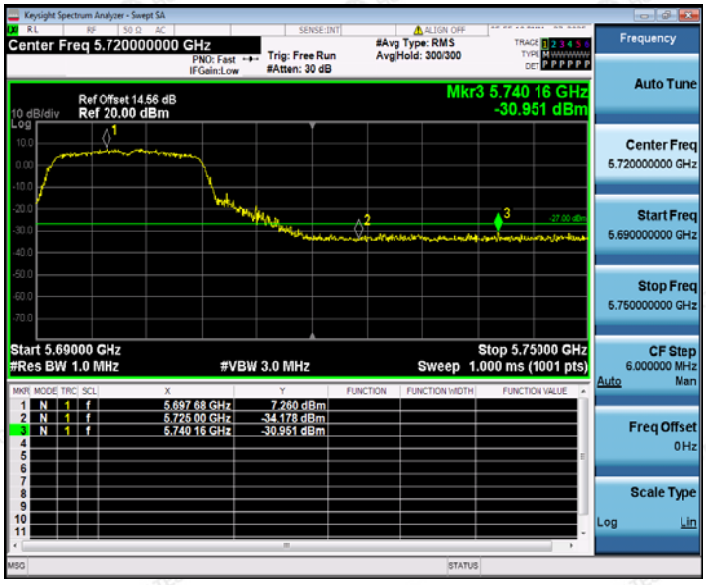
5500MHz

5700MHz



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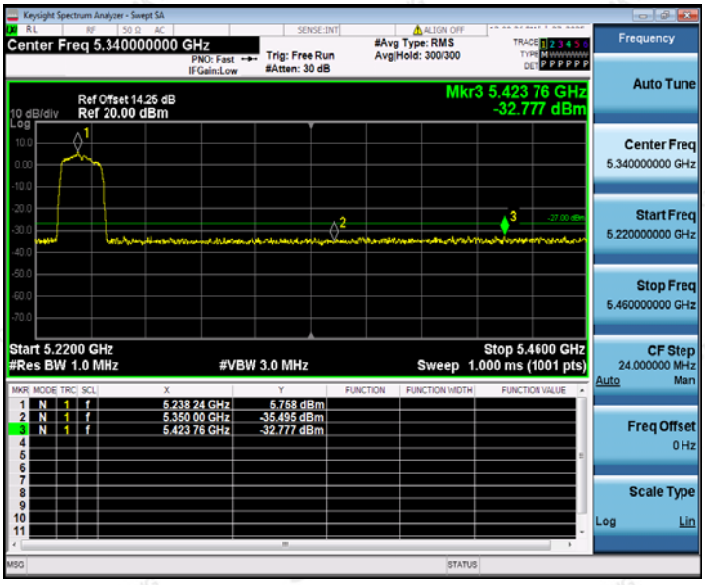
Band Edges(IEEE802.11n HT20 mode)

5180MHz

5240MHz



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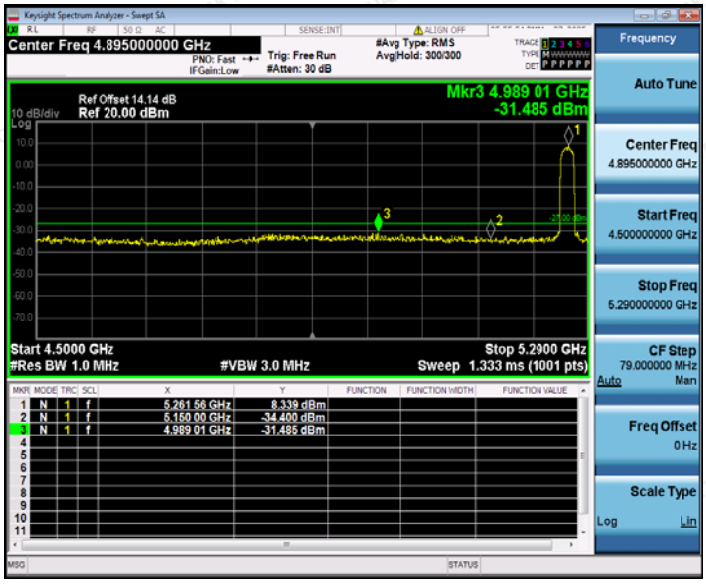
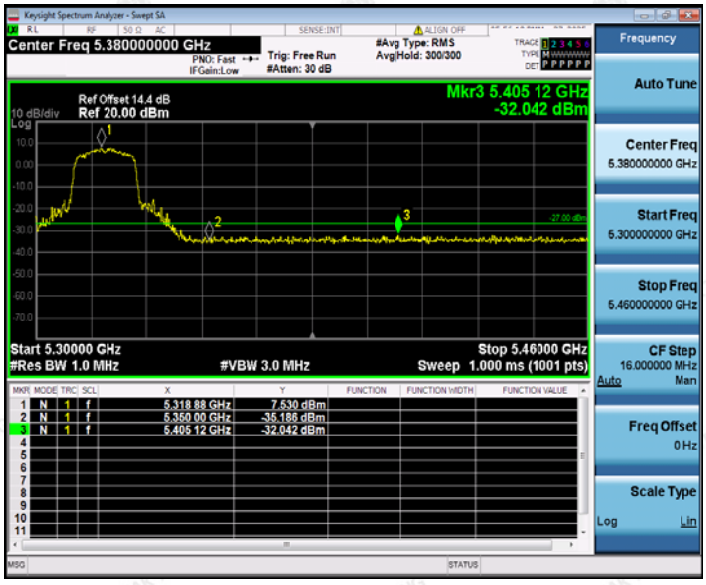
5260MHz



5320MHz



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5500MHz

5700MHz

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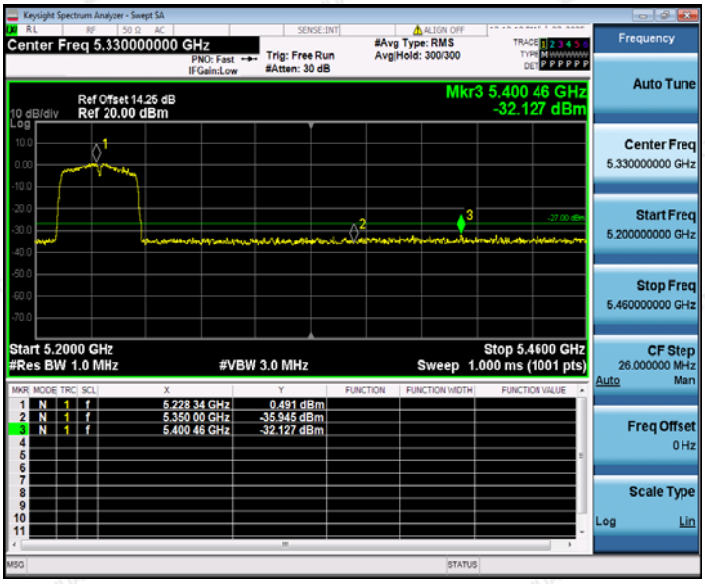
Band Edges(IEEE802.11n HT40 mode)

5190MHz

5230MHz



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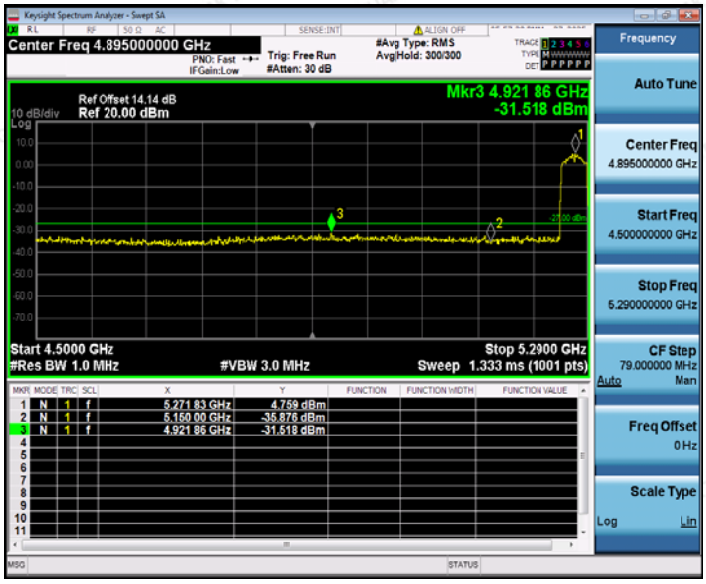
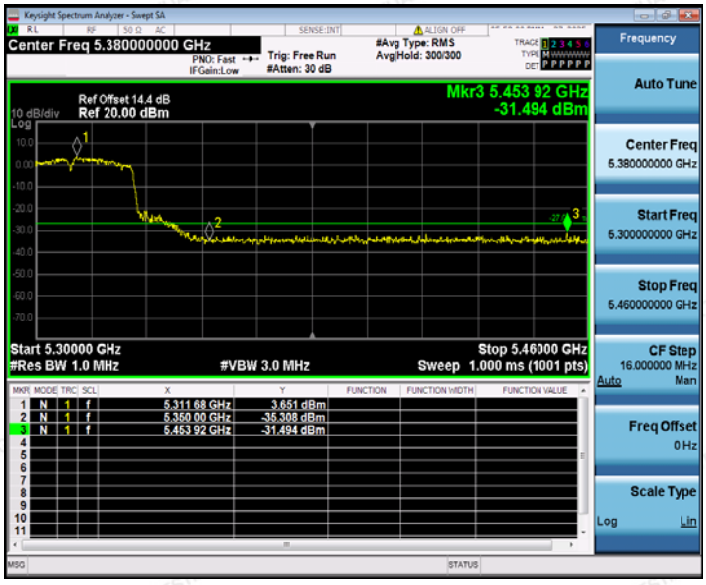
5270MHz



5310MHz



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5510MHz

5670MHz

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