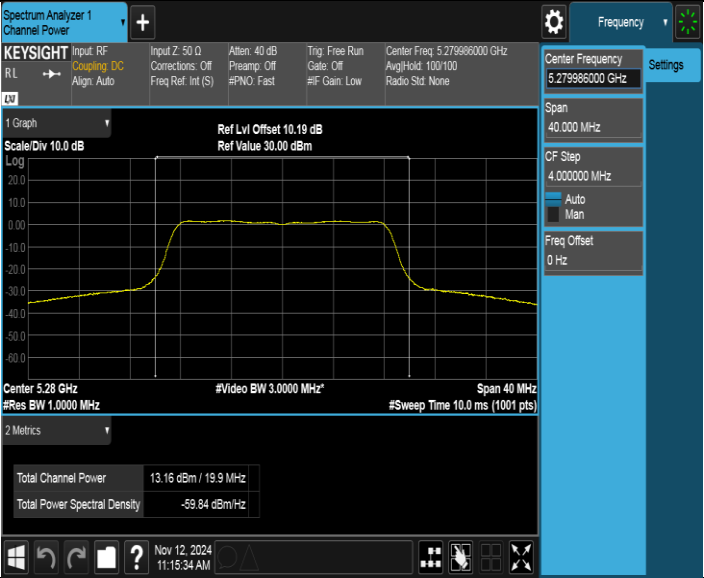
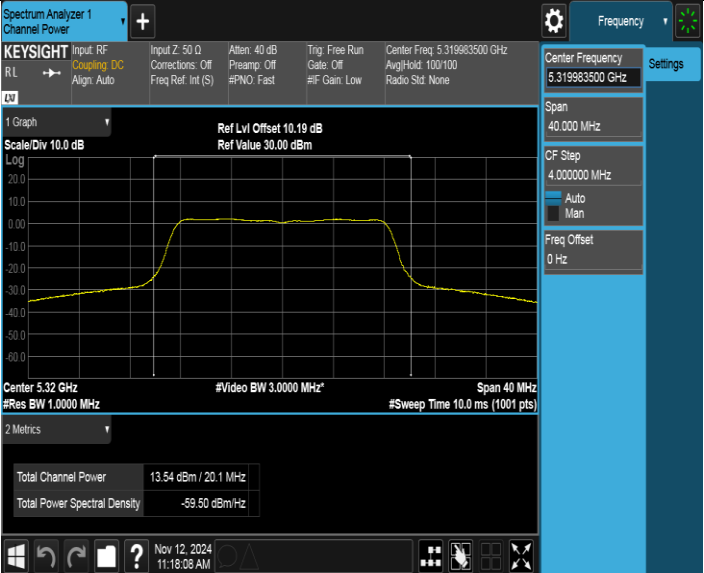
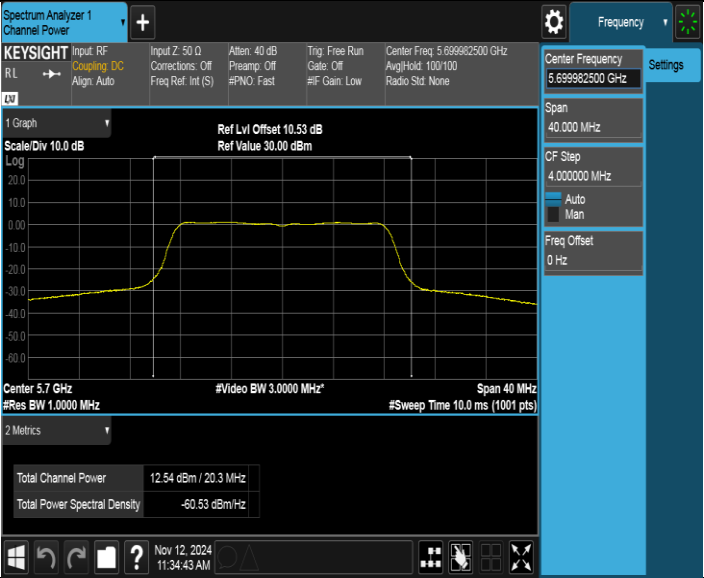


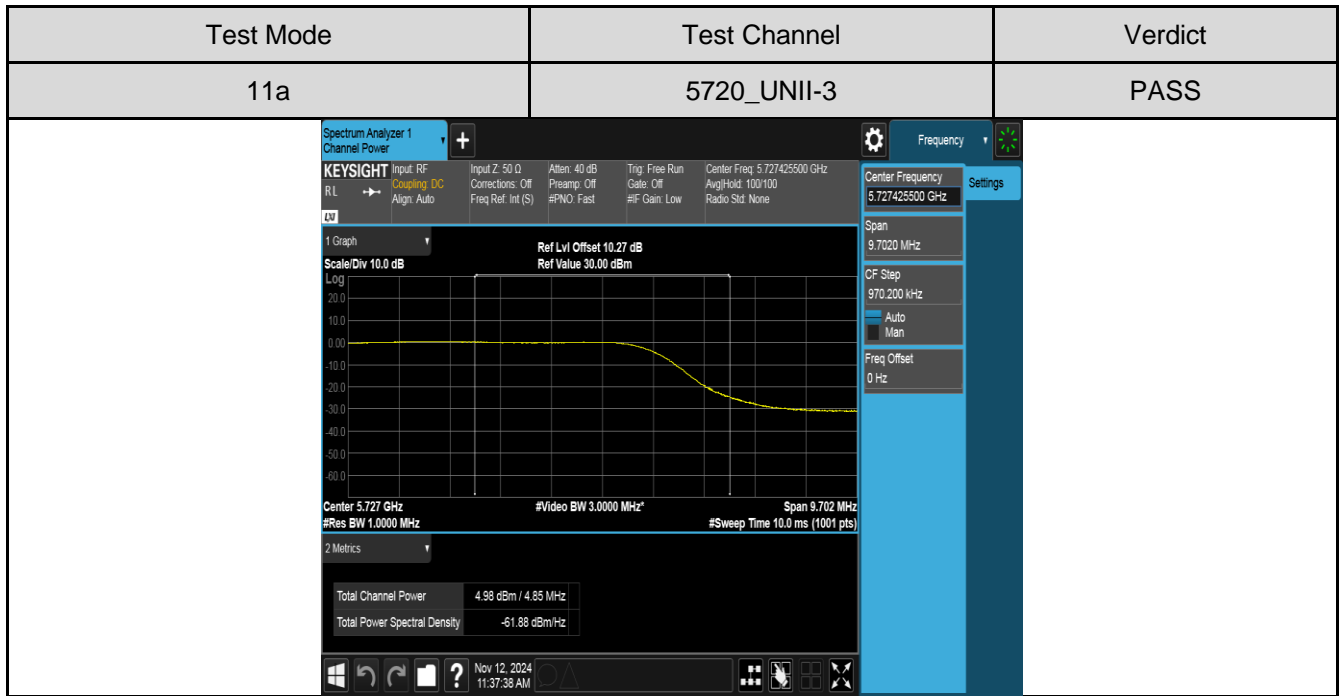
Test Mode	Test Channel	Verdict
11a	5280	PASS
		

Test Mode	Test Channel	Verdict
11a	5320	PASS
		



Test Mode	Test Channel	Verdict
11a	5700	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a spectral plot with a peak at 5.7 GHz. The settings on the right indicate a Center Frequency of 5.69982500 GHz, Span of 40.000 MHz, and CF Step of 4.000000 MHz. The bottom status bar shows the Total Channel Power as 12.54 dBm / 20.3 MHz and Total Power Spectral Density as -60.53 dBm/Hz. The date and time are Nov 12, 2024, 11:34:43 AM.</p>		

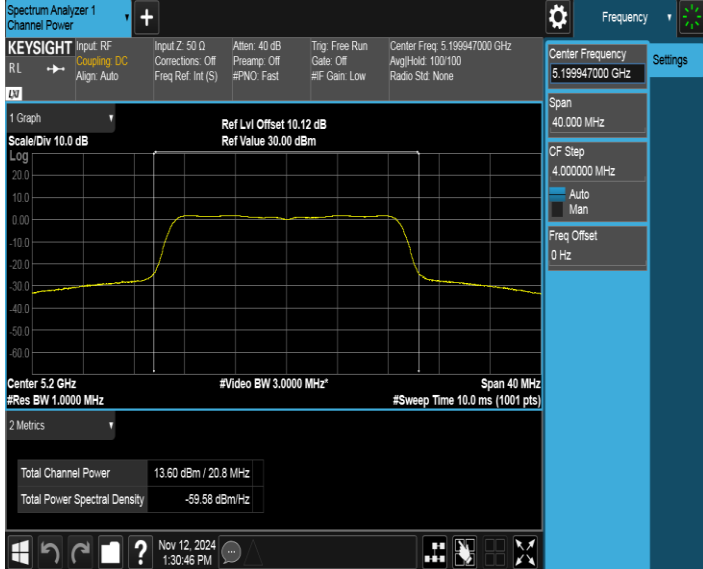
Test Mode	Test Channel	Verdict
11a	5720_UNII-2C	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a spectral plot with a peak at 5.717 GHz. The settings on the right indicate a Center Frequency of 5.717392500 GHz, Span of 30.430 MHz, and CF Step of 3.043000 MHz. The bottom status bar shows the Total Channel Power as 11.11 dBm / 15.2 MHz and Total Power Spectral Density as -60.71 dBm/Hz. The date and time are Nov 12, 2024, 11:37:10 AM.</p>		

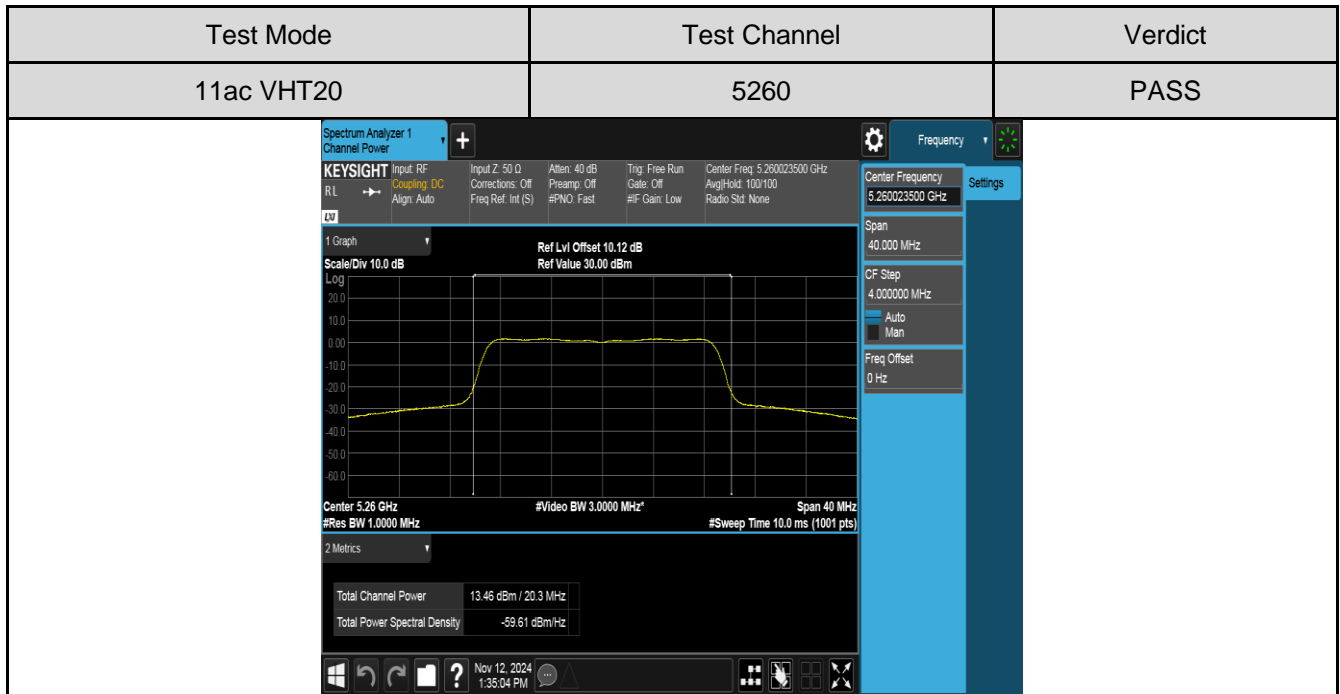


Test Mode	Test Channel	Verdict
11a	5785	PASS
		

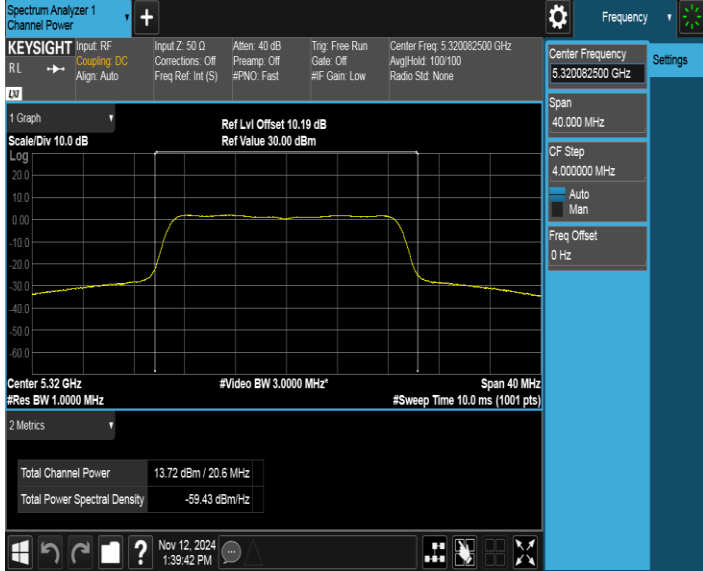
Test Mode	Test Channel	Verdict
11a	5825	PASS
		

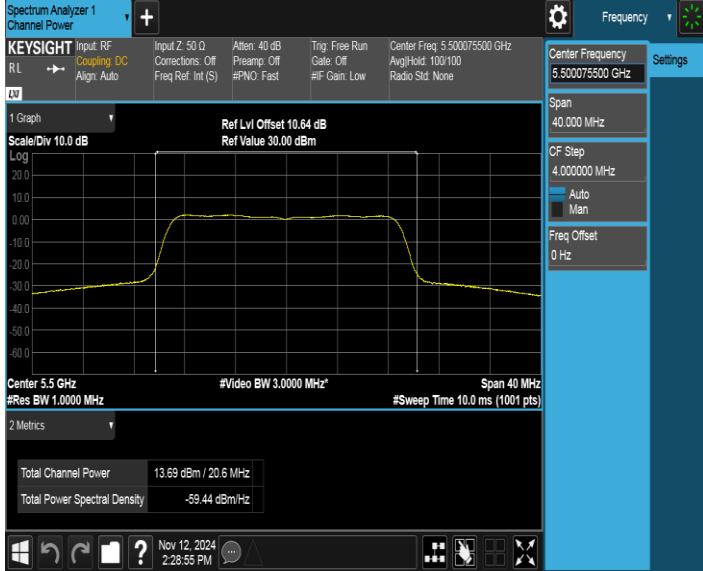
Test Mode	Test Channel	Verdict
11ac VHT20	5180	PASS
		

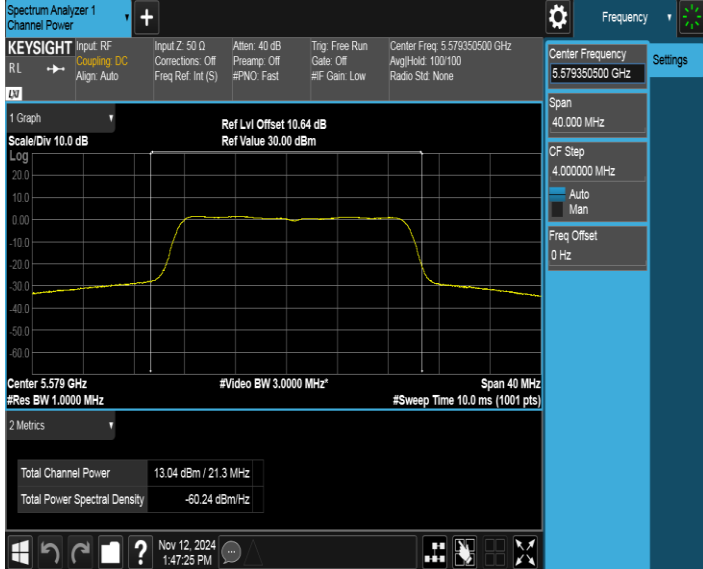
Test Mode	Test Channel	Verdict
11ac VHT20	5200	PASS
		

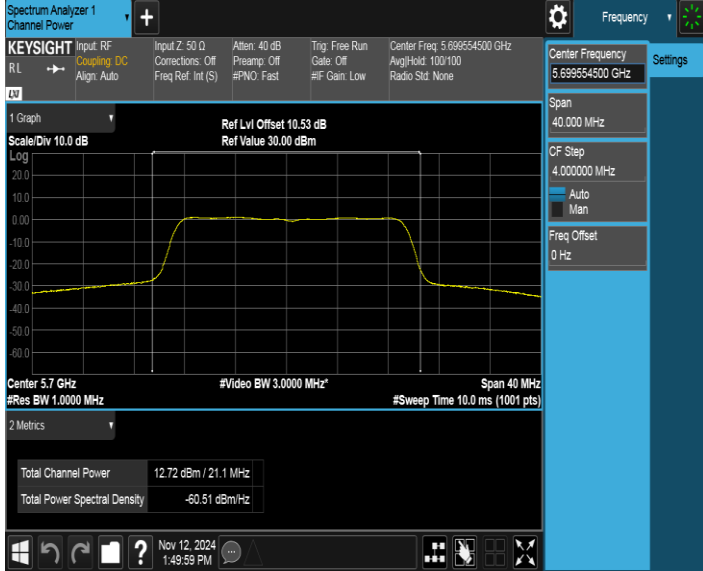


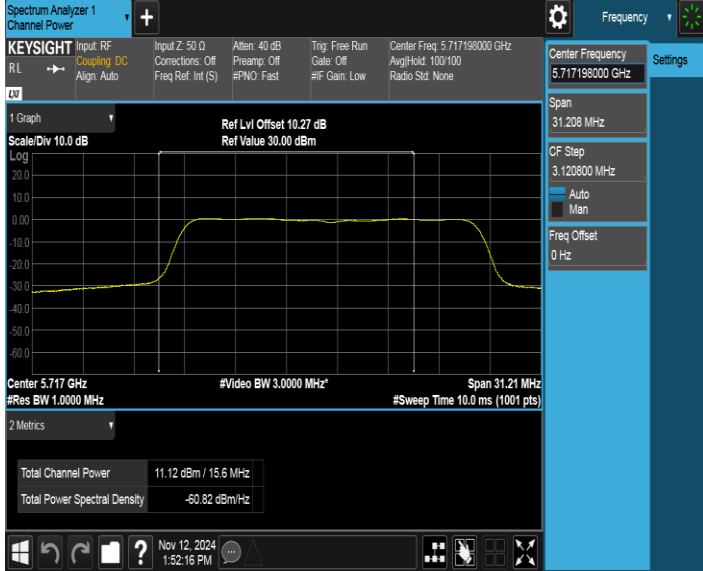
Test Mode	Test Channel	Verdict
11ac VHT20	5280	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.28 GHz with a span of 40 MHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The signal is centered at 5.28 GHz with a bandwidth of 3.0000 MHz. The total channel power is 13.36 dBm/20.5 MHz, and the total power spectral density is -59.76 dBm/Hz. The reference level is set to 30.00 dBm with a 10.19 dB offset. The settings panel on the right shows the center frequency at 5.280042500 GHz, span at 40.000 MHz, and CF step at 4.000000 MHz.</p>		

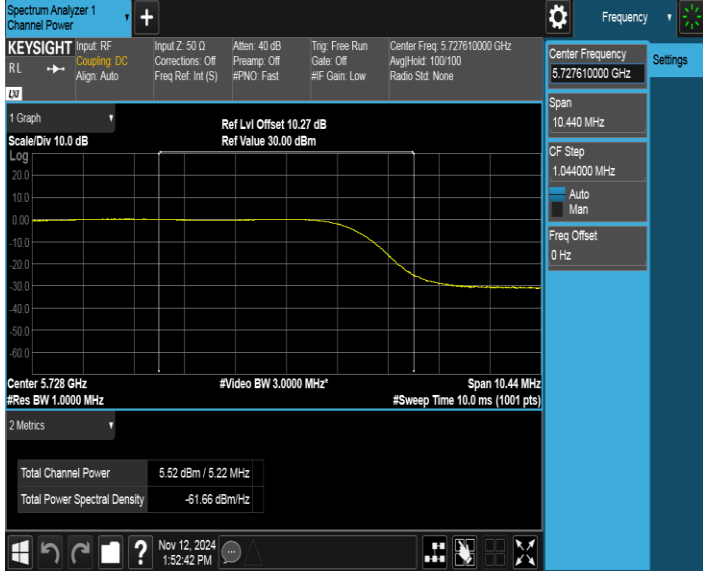
Test Mode	Test Channel	Verdict
11ac VHT20	5320	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.32 GHz with a span of 40 MHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The signal is centered at 5.32 GHz with a bandwidth of 3.0000 MHz. The total channel power is 13.72 dBm/20.6 MHz, and the total power spectral density is -59.43 dBm/Hz. The reference level is set to 30.00 dBm with a 10.19 dB offset. The settings panel on the right shows the center frequency at 5.320082500 GHz, span at 40.000 MHz, and CF step at 4.000000 MHz.</p>		

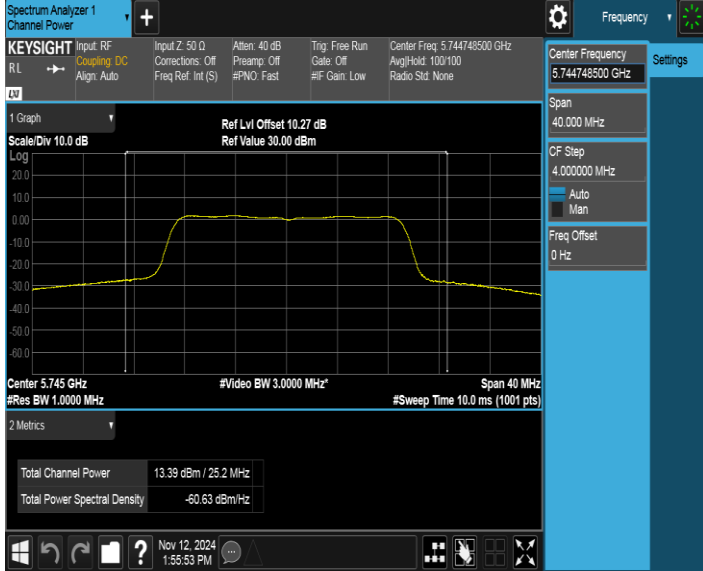
Test Mode	Test Channel	Verdict
11ac VHT20	5500	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.5 GHz. The y-axis is labeled 'Scale/Div 10.0 dB' and ranges from -60.0 to 20.0 dBm. The x-axis is labeled 'Center 5.5 GHz' and ranges from 5.48 GHz to 5.52 GHz. The 'Total Channel Power' is 13.69 dBm / 20.6 MHz, and the 'Total Power Spectral Density' is -59.44 dBm/Hz. The 'Ref Lvl Offset' is 10.64 dB and the 'Ref Value' is 30.00 dBm. The 'Span' is 40.000 MHz, 'CF Step' is 4.000000 MHz, and 'Freq Offset' is 0 Hz. The 'Sweep Time' is 10.0 ms (1001 pts).</p>		

Test Mode	Test Channel	Verdict
11ac VHT20	5580	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.579 GHz. The y-axis is labeled 'Scale/Div 10.0 dB' and ranges from -60.0 to 20.0 dBm. The x-axis is labeled 'Center 5.579 GHz' and ranges from 5.56 GHz to 5.59 GHz. The 'Total Channel Power' is 13.04 dBm / 21.3 MHz, and the 'Total Power Spectral Density' is -60.24 dBm/Hz. The 'Ref Lvl Offset' is 10.64 dB and the 'Ref Value' is 30.00 dBm. The 'Span' is 40.000 MHz, 'CF Step' is 4.000000 MHz, and 'Freq Offset' is 0 Hz. The 'Sweep Time' is 10.0 ms (1001 pts).</p>		

Test Mode	Test Channel	Verdict
11ac VHT20	5700	PASS
 <p>The screenshot displays the Spectrum Analyzer 1 Channel Power interface. The main graph shows a signal centered at 5.69954500 GHz with a span of 40.000 MHz. The signal level is approximately 0 dBm. The total channel power is 12.72 dBm / 21.1 MHz, and the total power spectral density is -60.51 dBm/Hz. The interface includes various settings such as Input Z: 50 Ω, Attenuation: 40 dB, and Center Frequency: 5.69954500 GHz.</p>		

Test Mode	Test Channel	Verdict
11ac VHT20	5720_UNII-2C	PASS
 <p>The screenshot displays the Spectrum Analyzer 1 Channel Power interface. The main graph shows a signal centered at 5.71719000 GHz with a span of 31.21 MHz. The signal level is approximately 0 dBm. The total channel power is 11.12 dBm / 15.6 MHz, and the total power spectral density is -60.82 dBm/Hz. The interface includes various settings such as Input Z: 50 Ω, Attenuation: 40 dB, and Center Frequency: 5.71719000 GHz.</p>		

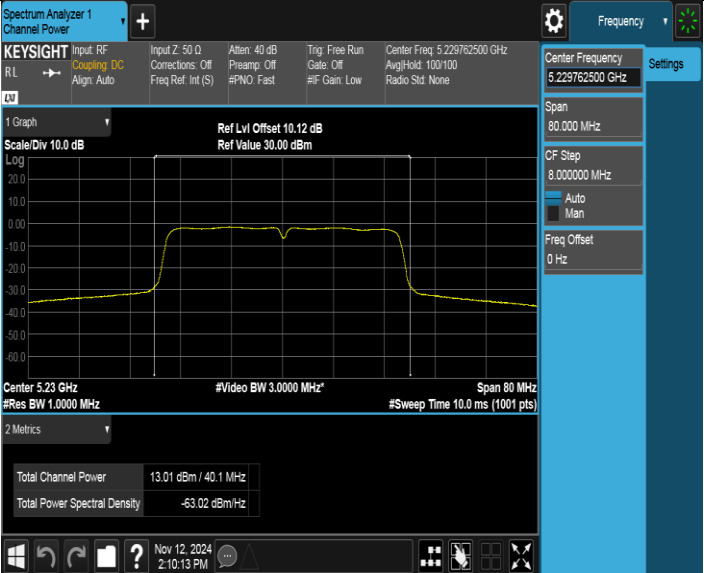
Test Mode	Test Channel	Verdict
11ac VHT20	5720_UNII-3	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal at 5.728 GHz with a total channel power of -5.52 dBm. The settings panel on the right shows a center frequency of 5.727610000 GHz and a span of 10.440 MHz. The bottom status bar indicates the date and time as Nov 12, 2024, 1:52:42 PM.</p>		

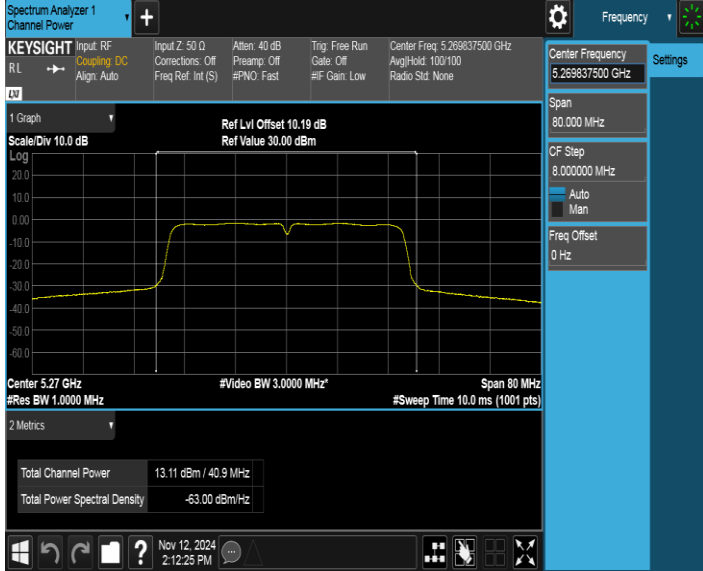
Test Mode	Test Channel	Verdict
11ac VHT20	5745	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal at 5.745 GHz with a total channel power of 13.39 dBm. The settings panel on the right shows a center frequency of 5.744748500 GHz and a span of 40.000 MHz. The bottom status bar indicates the date and time as Nov 12, 2024, 1:55:53 PM.</p>		

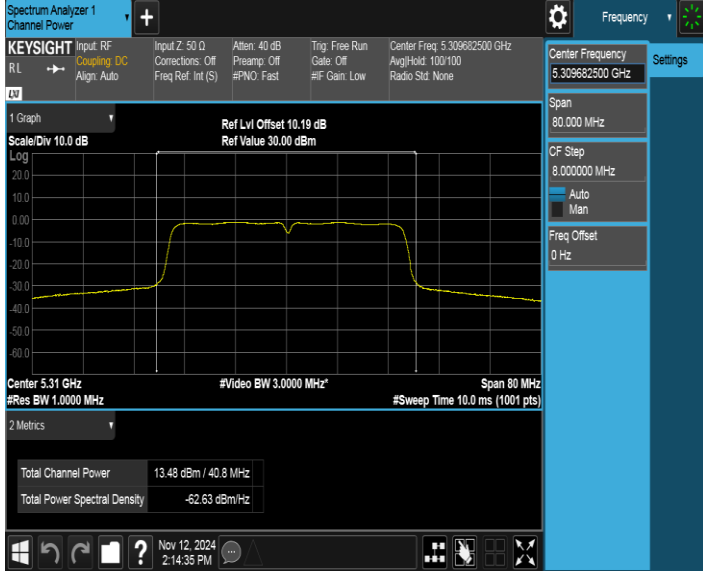
Test Mode	Test Channel	Verdict
11ac VHT20	5785	PASS
		

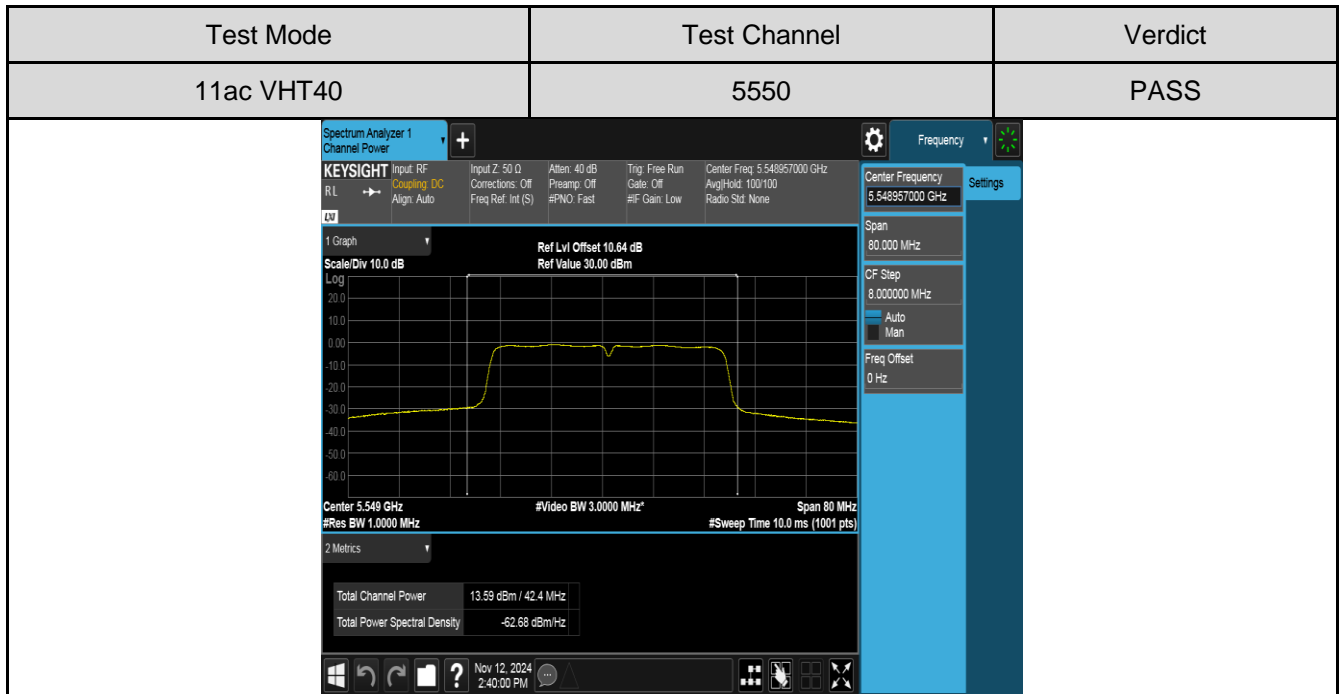
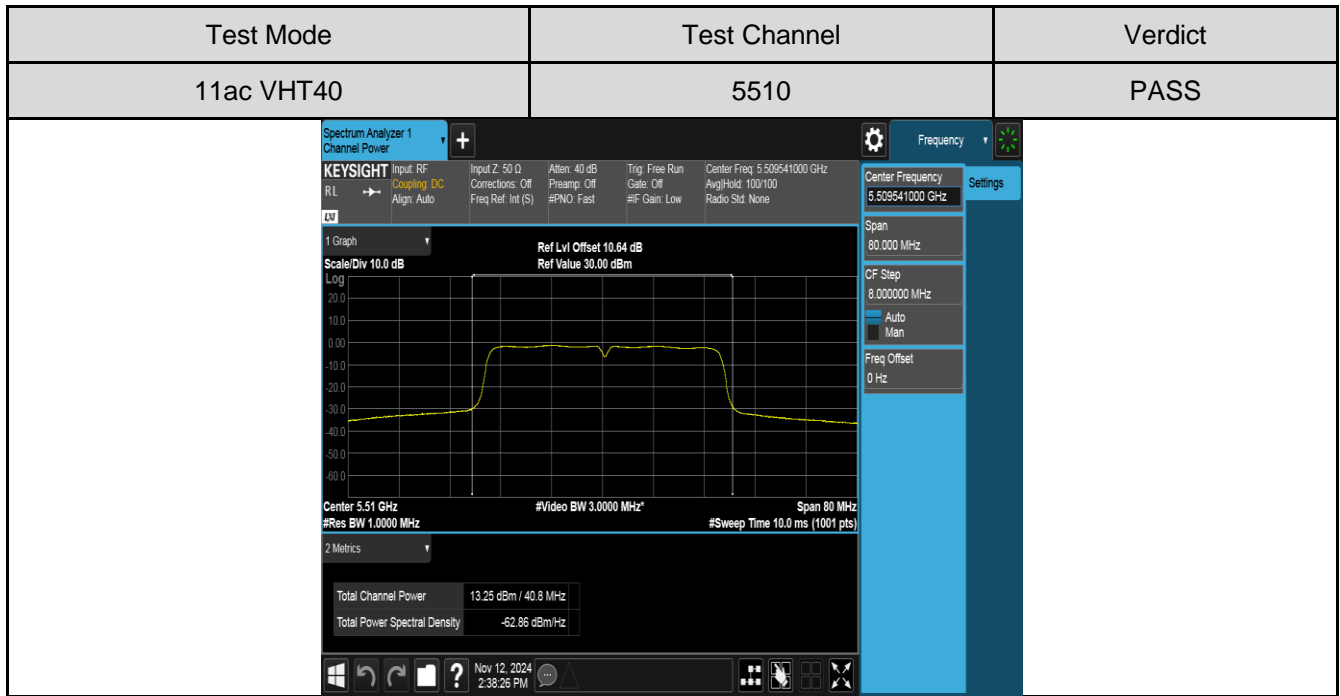
Test Mode	Test Channel	Verdict
11ac VHT20	5825	PASS
		

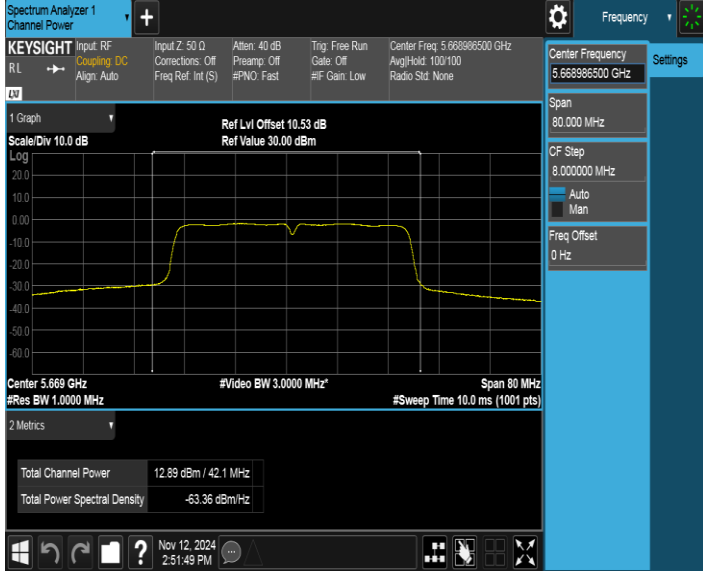
Test Mode	Test Channel	Verdict
11ac VHT40	5190	PASS
		

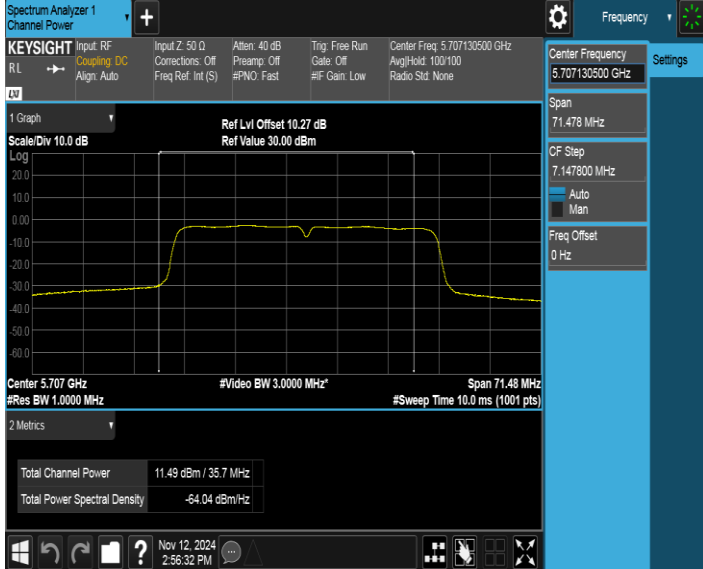
Test Mode	Test Channel	Verdict
11ac VHT40	5230	PASS
		

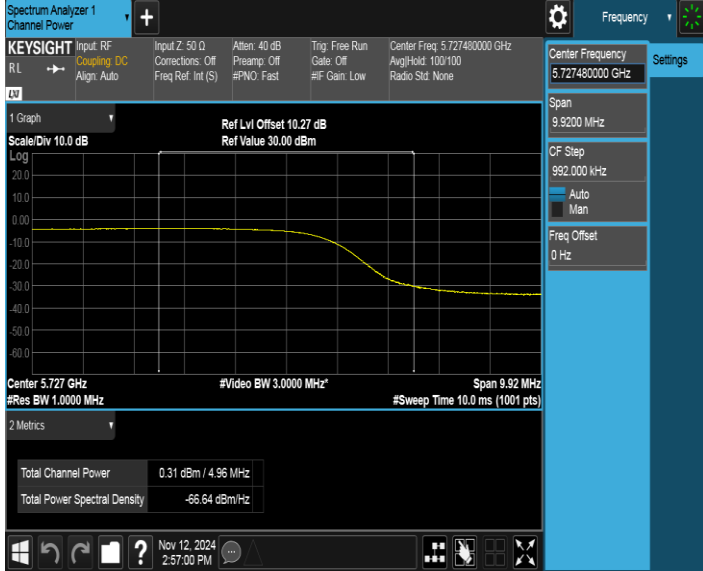
Test Mode	Test Channel	Verdict
11ac VHT40	5270	PASS
 <p>Spectrum Analyzer 1 Channel Power</p> <p>KEYSIGHT Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 5.269837500 GHz Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #PNO: Fast #IF Gain: Low Radio Std: None</p> <p>Ref Lvl Offset 10.19 dB Ref Value 30.00 dBm</p> <p>1 Graph Scale/Div 10.0 dB Log 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 5.27 GHz #Video BW 3.0000 MHz* Span 80 MHz #Res BW 1.0000 MHz #Sweep Time 10.0 ms (1001 pts)</p> <p>2 Metrics Total Channel Power 13.11 dBm / 40.9 MHz Total Power Spectral Density -63.00 dBm/Hz</p> <p>Nov 12, 2024 2:12:25 PM</p>		

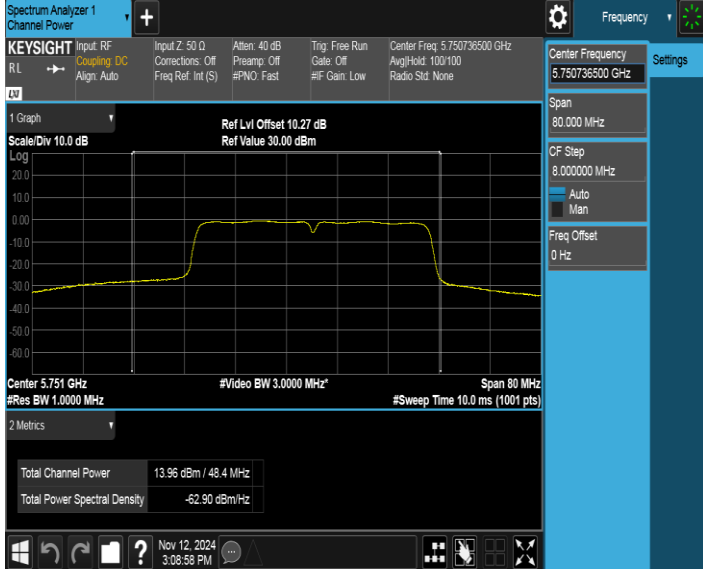
Test Mode	Test Channel	Verdict
11ac VHT40	5310	PASS
 <p>Spectrum Analyzer 1 Channel Power</p> <p>KEYSIGHT Input: RF Input Z: 50 Ω Atten: 40 dB Trig: Free Run Center Freq: 5.309682500 GHz Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 100/100 Align: Auto Freq Ref: Int (S) #PNO: Fast #IF Gain: Low Radio Std: None</p> <p>Ref Lvl Offset 10.19 dB Ref Value 30.00 dBm</p> <p>1 Graph Scale/Div 10.0 dB Log 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 5.31 GHz #Video BW 3.0000 MHz* Span 80 MHz #Res BW 1.0000 MHz #Sweep Time 10.0 ms (1001 pts)</p> <p>2 Metrics Total Channel Power 13.48 dBm / 40.8 MHz Total Power Spectral Density -62.63 dBm/Hz</p> <p>Nov 12, 2024 2:14:35 PM</p>		

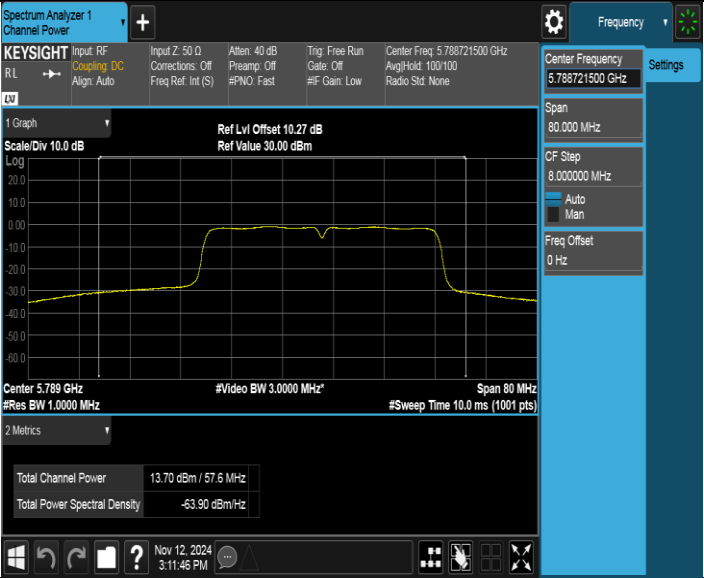


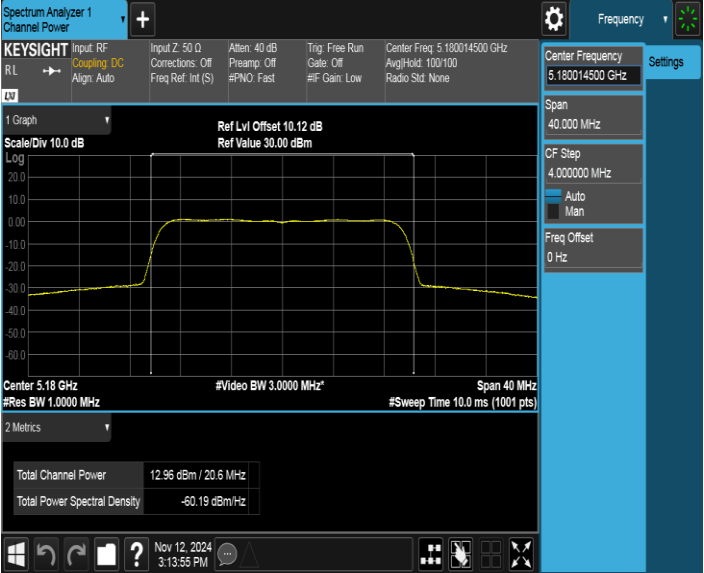
Test Mode	Test Channel	Verdict
11ac VHT40	5670	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.669 GHz with a total channel power of 12.89 dBm / 42.1 MHz. The reference level is set to 30.00 dBm. The span is 80 MHz, and the resolution bandwidth is 1.0000 MHz. The video bandwidth is 3.0000 MHz. The sweep time is 10.0 ms (1001 pts). The settings panel on the right shows the center frequency at 5.66986500 GHz, span at 80.000 MHz, and CF step at 8.000000 MHz.</p>		

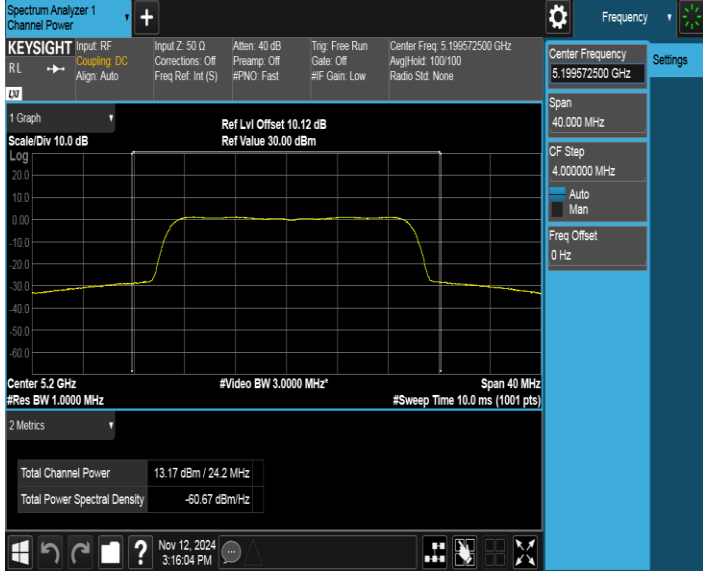
Test Mode	Test Channel	Verdict
11ac VHT40	5710_UNII-2C	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.707 GHz with a total channel power of 11.49 dBm / 35.7 MHz. The reference level is set to 30.00 dBm. The span is 71.48 MHz, and the resolution bandwidth is 1.0000 MHz. The video bandwidth is 3.0000 MHz. The sweep time is 10.0 ms (1001 pts). The settings panel on the right shows the center frequency at 5.707130500 GHz, span at 71.478 MHz, and CF step at 7.147800 MHz.</p>		

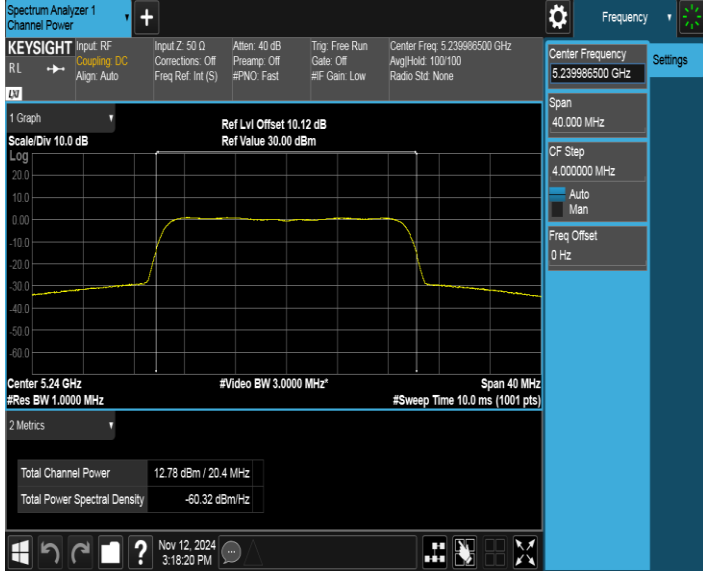
Test Mode	Test Channel	Verdict
11ac VHT40	5710_UNII-3	PASS
 <p>The screenshot displays the Spectrum Analyzer 1 Channel Power interface. The main graph shows a signal at 5.727 GHz with a total channel power of 0.31 dBm / 4.96 MHz. The graph settings include a scale of 10.0 dB, a span of 9.92 MHz, and a center frequency of 5.727 GHz. The signal is identified as 11ac VHT40.</p>		

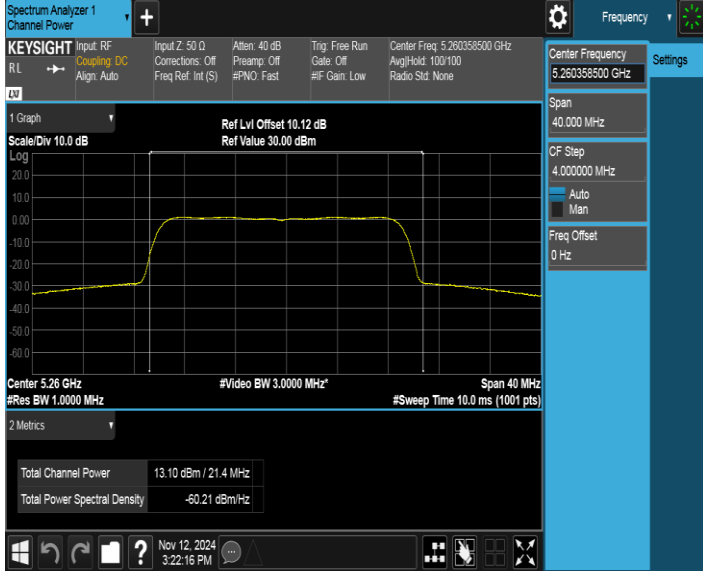
Test Mode	Test Channel	Verdict
11ac VHT40	5755	PASS
 <p>The screenshot displays the Spectrum Analyzer 1 Channel Power interface. The main graph shows a signal at 5.751 GHz with a total channel power of 13.96 dBm / 48.4 MHz. The graph settings include a scale of 10.0 dB, a span of 80 MHz, and a center frequency of 5.751 GHz. The signal is identified as 11ac VHT40.</p>		

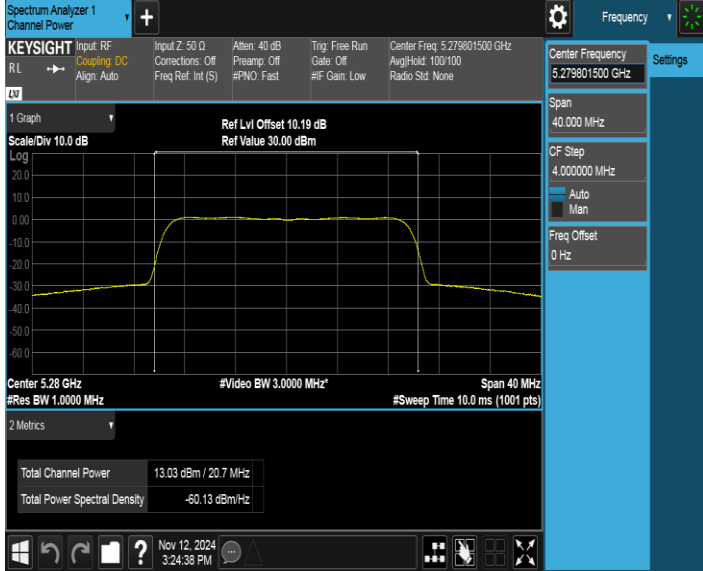
Test Mode	Test Channel	Verdict
11ac VHT40	5795	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface for a Channel Power test. The center frequency is set to 5.789 GHz. The signal is a rectangular pulse. The total channel power is measured as 13.70 dBm over a 57.6 MHz span. The total power spectral density is -63.90 dBm/Hz. The video bandwidth is 3.0000 MHz, and the resolution bandwidth is 1.0000 MHz. The sweep time is 10.0 ms (1001 pts).</p>		

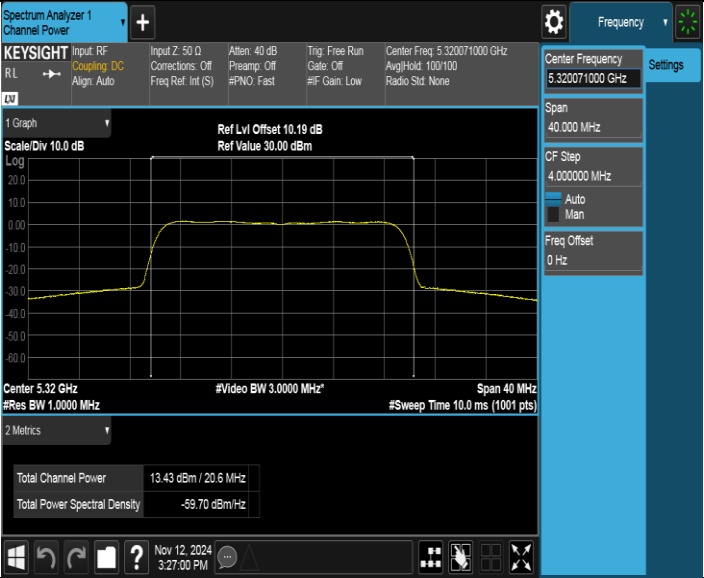
Test Mode	Test Channel	Verdict
11ax HE20	5180	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface for a Channel Power test. The center frequency is set to 5.18 GHz. The signal is a rectangular pulse. The total channel power is measured as 12.96 dBm over a 20.6 MHz span. The total power spectral density is -60.19 dBm/Hz. The video bandwidth is 3.0000 MHz, and the resolution bandwidth is 1.0000 MHz. The sweep time is 10.0 ms (1001 pts).</p>		

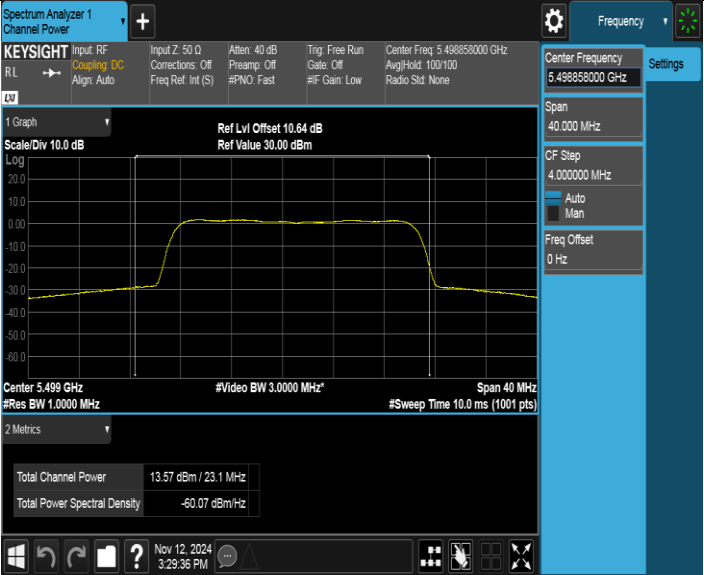
Test Mode	Test Channel	Verdict
11ax HE20	5200	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.2 GHz. The y-axis is labeled 'Scale/Div 10.0 dB' and the x-axis is labeled 'Center 5.2 GHz'. The 'Total Channel Power' is displayed as 13.17 dBm / 24.2 MHz. The 'Total Power Spectral Density' is -60.67 dBm/Hz. The 'Ref Lvl Offset' is 10.12 dB and the 'Ref Value' is 30.00 dBm. The 'Span' is 40 MHz and the 'Sweep Time' is 10.0 ms (1001 pts).</p>		

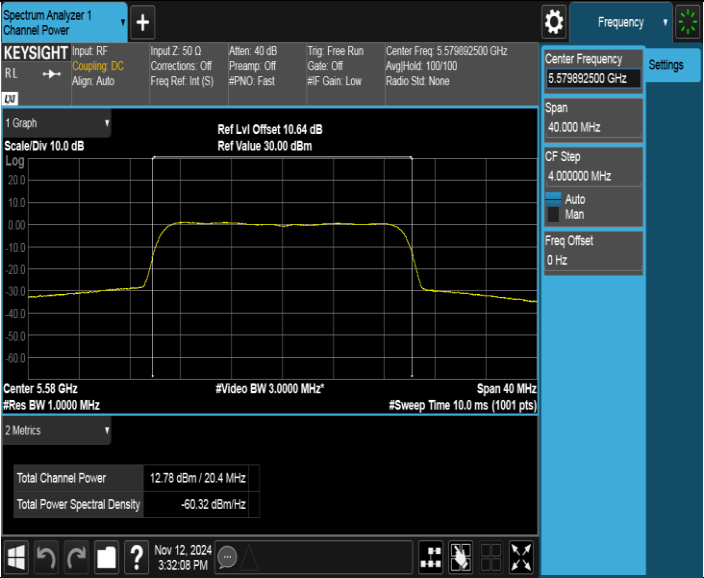
Test Mode	Test Channel	Verdict
11ax HE20	5240	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.24 GHz. The y-axis is labeled 'Scale/Div 10.0 dB' and the x-axis is labeled 'Center 5.24 GHz'. The 'Total Channel Power' is displayed as 12.78 dBm / 20.4 MHz. The 'Total Power Spectral Density' is -60.32 dBm/Hz. The 'Ref Lvl Offset' is 10.12 dB and the 'Ref Value' is 30.00 dBm. The 'Span' is 40 MHz and the 'Sweep Time' is 10.0 ms (1001 pts).</p>		

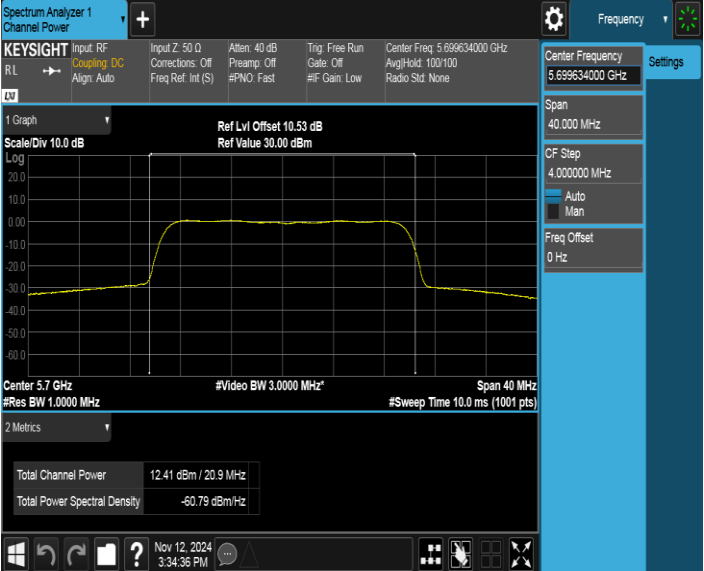
Test Mode	Test Channel	Verdict
11ax HE20	5260	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal at 5.26 GHz with a total channel power of 13.10 dBm / 21.4 MHz. The signal is a rectangular pulse. The settings on the right show a center frequency of 5.260358500 GHz, a span of 40.000 MHz, and a resolution bandwidth of 3.00000 MHz. The bottom status bar shows the date and time as Nov 12, 2024, 3:22:16 PM.</p>		

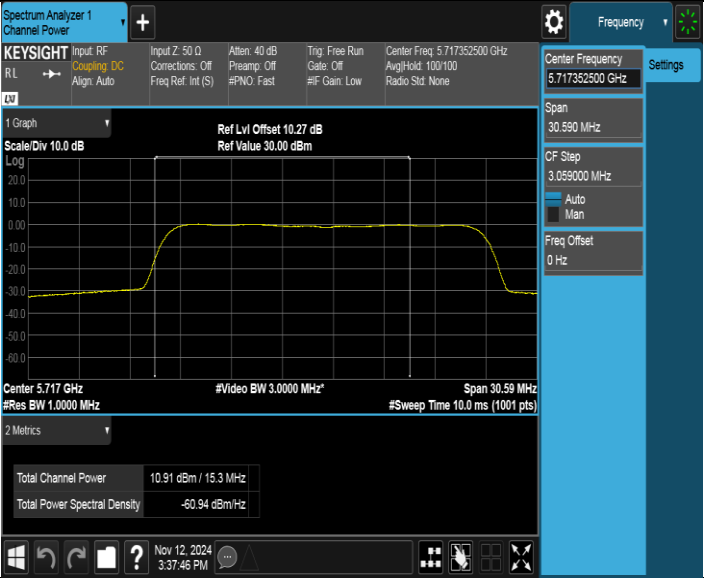
Test Mode	Test Channel	Verdict
11ax HE20	5280	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal at 5.28 GHz with a total channel power of 13.03 dBm / 20.7 MHz. The signal is a rectangular pulse. The settings on the right show a center frequency of 5.279801500 GHz, a span of 40.000 MHz, and a resolution bandwidth of 3.00000 MHz. The bottom status bar shows the date and time as Nov 12, 2024, 3:24:38 PM.</p>		

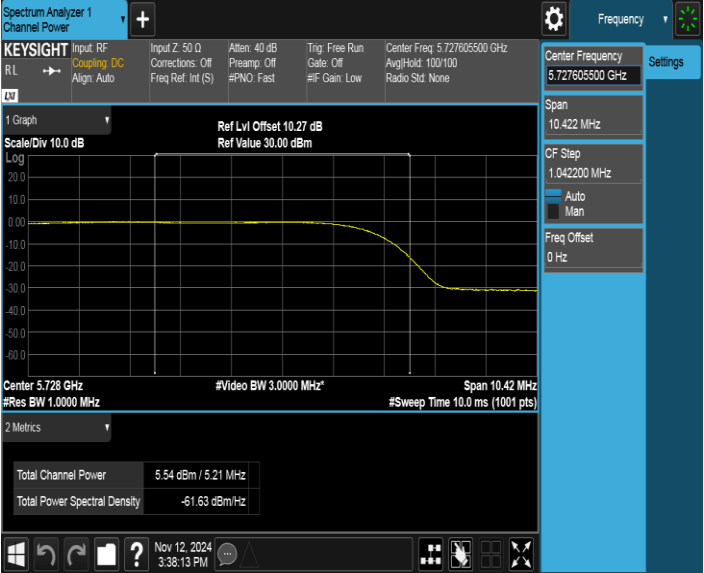
Test Mode	Test Channel	Verdict
11ax HE20	5320	PASS
		

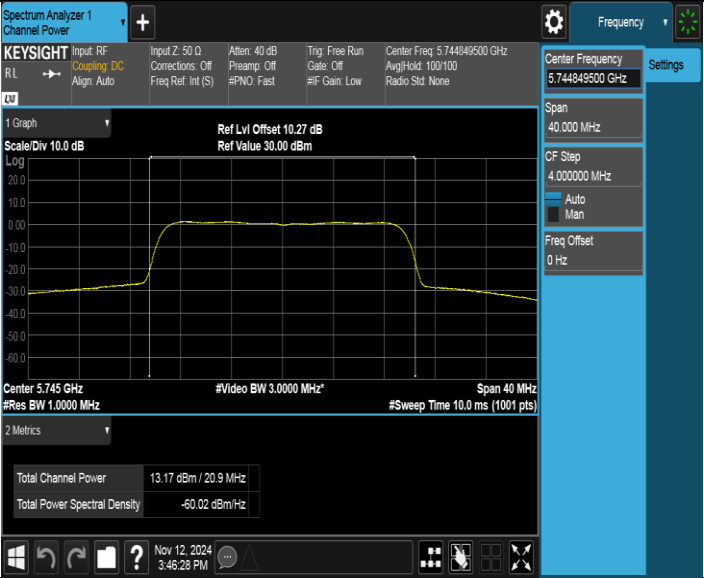
Test Mode	Test Channel	Verdict
11ax HE20	5500	PASS
		

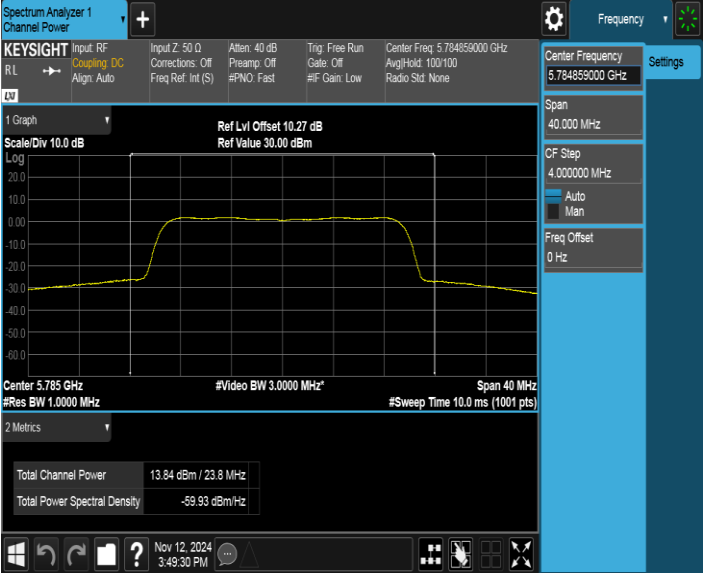
Test Mode	Test Channel	Verdict
11ax HE20	5580	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.58 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a span of 40 MHz. The signal is centered at 5.58 GHz. The total channel power is measured as 12.78 dBm/20.4 MHz, and the total power spectral density is -60.32 dBm/Hz. The reference level offset is 10.64 dB, and the reference value is 30.00 dBm. The video bandwidth is 3.0000 MHz, and the resolution bandwidth is 1.0000 MHz. The sweep time is 10.0 ms (1001 pts).</p>		

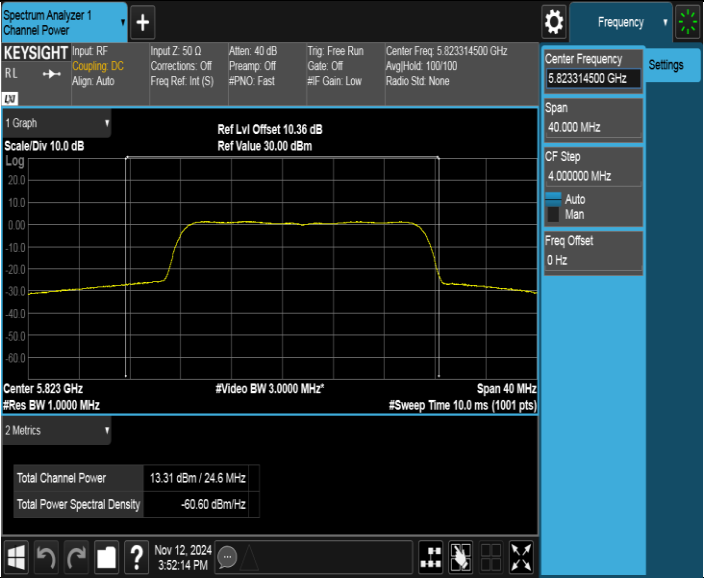
Test Mode	Test Channel	Verdict
11ax HE20	5700	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.7 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a span of 40 MHz. The signal is centered at 5.7 GHz. The total channel power is measured as 12.41 dBm/20.9 MHz, and the total power spectral density is -60.79 dBm/Hz. The reference level offset is 10.53 dB, and the reference value is 30.00 dBm. The video bandwidth is 3.0000 MHz, and the resolution bandwidth is 1.0000 MHz. The sweep time is 10.0 ms (1001 pts).</p>		

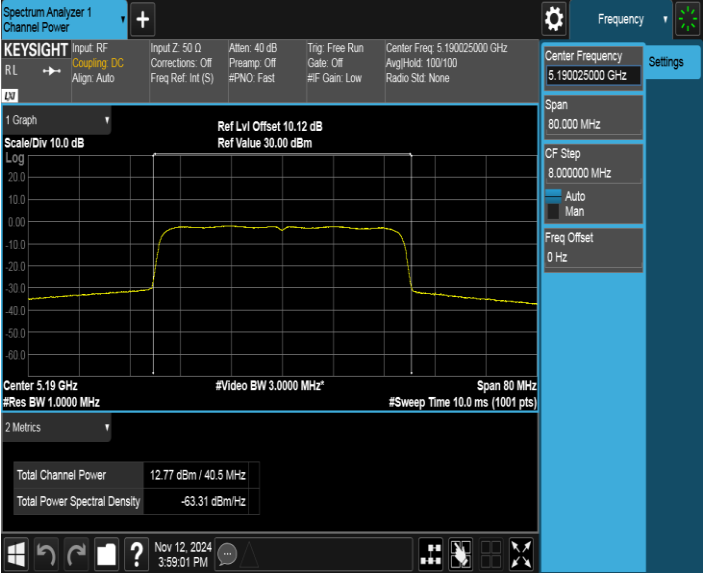
Test Mode	Test Channel	Verdict
11ax HE20	5720_UNII-2C	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal at 5.717 GHz with a total channel power of 10.91 dBm / 15.3 MHz. The signal is a flat-topped pulse. The settings on the right include: Center Frequency 5.717352500 GHz, Span 30.590 MHz, CF Step 3.059000 MHz, Auto Man, Freq Offset 0 Hz. The bottom status bar shows the date Nov 12, 2024 and time 3:37:46 PM.</p>		

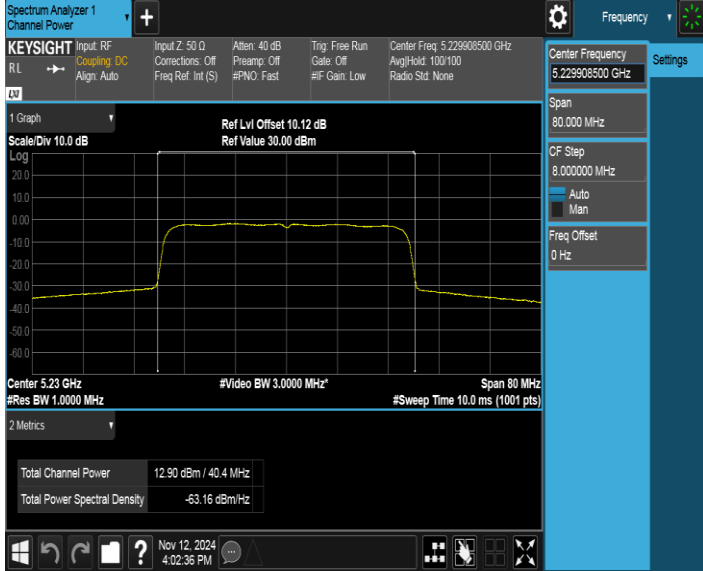
Test Mode	Test Channel	Verdict
11ax HE20	5720_UNII-3	PASS
 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display shows a signal at 5.728 GHz with a total channel power of 5.54 dBm / 5.21 MHz. The signal is a flat-topped pulse. The settings on the right include: Center Frequency 5.727605500 GHz, Span 10.422 MHz, CF Step 1.042200 MHz, Auto Man, Freq Offset 0 Hz. The bottom status bar shows the date Nov 12, 2024 and time 3:38:13 PM.</p>		

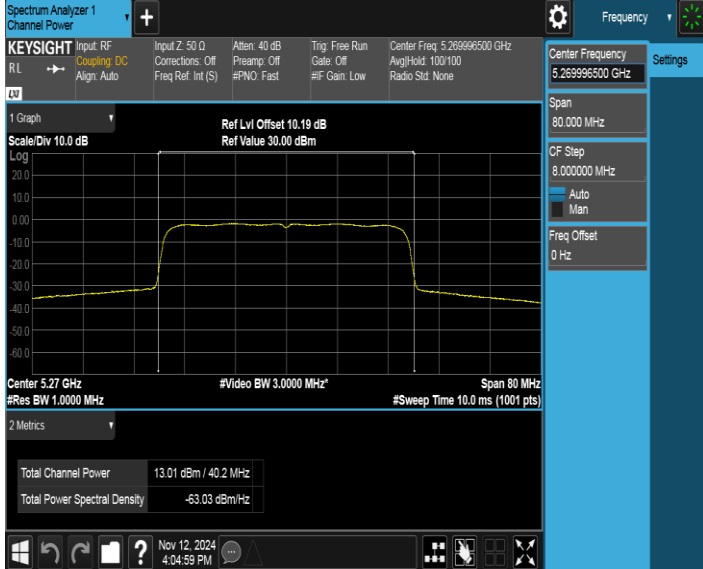
Test Mode	Test Channel	Verdict
11ax HE20	5745	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.745 GHz. The y-axis is labeled 'Scale/Div 10.0 dB' and ranges from -60.0 to 20.0 dBm. The x-axis is labeled 'Center 5.745 GHz' and ranges from 5.740 GHz to 5.750 GHz. The signal is a rectangular pulse. The 'Total Channel Power' is 13.17 dBm / 20.9 MHz, and the 'Total Power Spectral Density' is -60.02 dBm/Hz. The 'Ref Lvl Offset' is 10.27 dB and the 'Ref Value' is 30.00 dBm. The 'Span' is 40 MHz, 'Res BW' is 1.0000 MHz, and 'Sweep Time' is 10.0 ms (1001 pts).</p>		

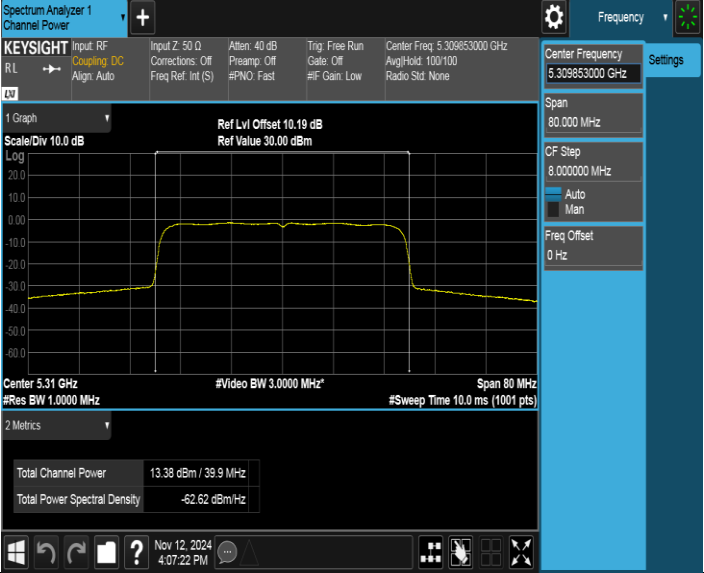
Test Mode	Test Channel	Verdict
11ax HE20	5785	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 5.785 GHz. The y-axis is labeled 'Scale/Div 10.0 dB' and ranges from -60.0 to 20.0 dBm. The x-axis is labeled 'Center 5.785 GHz' and ranges from 5.780 GHz to 5.790 GHz. The signal is a rectangular pulse. The 'Total Channel Power' is 13.84 dBm / 23.8 MHz, and the 'Total Power Spectral Density' is -59.93 dBm/Hz. The 'Ref Lvl Offset' is 10.27 dB and the 'Ref Value' is 30.00 dBm. The 'Span' is 40 MHz, 'Res BW' is 1.0000 MHz, and 'Sweep Time' is 10.0 ms (1001 pts).</p>		

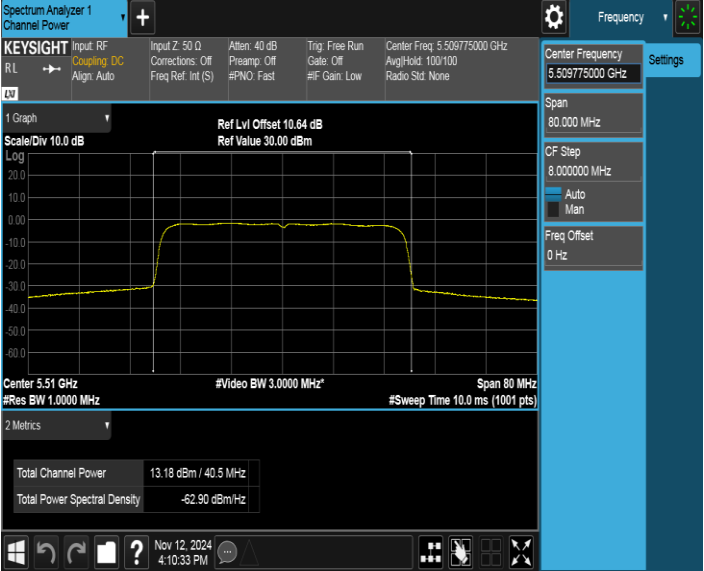
Test Mode	Test Channel	Verdict
11ax HE20	5825	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.823 GHz with a total channel power of 13.31 dBm / 24.6 MHz. The reference level is set to 30.00 dBm, and the offset is 10.36 dB. The span is 40 MHz, and the resolution bandwidth is 1.0000 MHz. The video bandwidth is 3.0000 MHz, and the sweep time is 10.0 ms (1001 pts). The settings panel on the right shows the center frequency at 5.82314500 GHz, span at 40.000 MHz, and CF step at 4.000000 MHz.</p>		

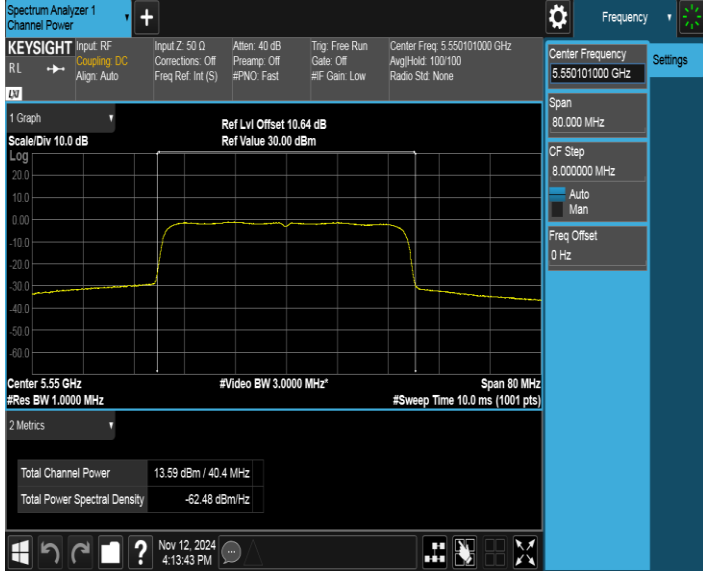
Test Mode	Test Channel	Verdict
11ax HE40	5190	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.19 GHz with a total channel power of 12.77 dBm / 40.5 MHz. The reference level is set to 30.00 dBm, and the offset is 10.12 dB. The span is 80 MHz, and the resolution bandwidth is 1.0000 MHz. The video bandwidth is 3.0000 MHz, and the sweep time is 10.0 ms (1001 pts). The settings panel on the right shows the center frequency at 5.19025000 GHz, span at 80.000 MHz, and CF step at 8.000000 MHz.</p>		

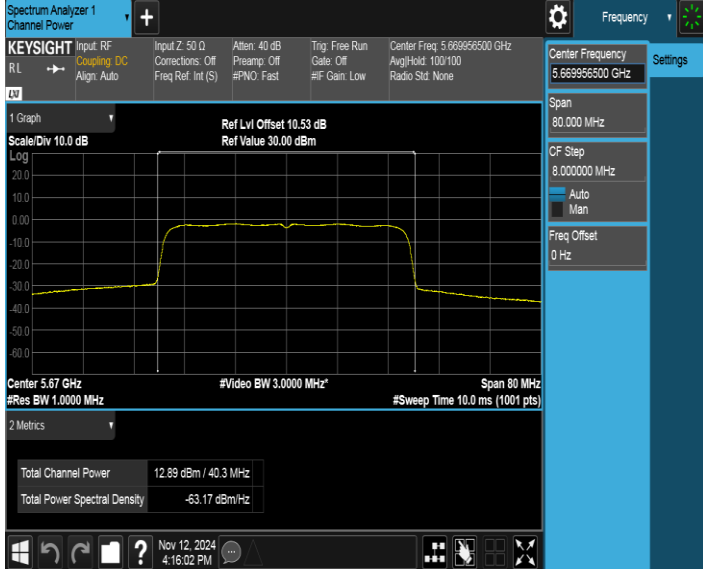
Test Mode	Test Channel	Verdict
11ax HE40	5230	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.23 GHz with a total channel power of 12.90 dBm/40.4 MHz. The reference level is set to 10.12 dB and the reference value is 30.00 dBm. The span is 80 MHz and the resolution bandwidth is 1.0000 MHz. The video bandwidth is 3.0000 MHz and the sweep time is 10.0 ms (1001 pts). The total power spectral density is -63.16 dBm/Hz.</p>		

Test Mode	Test Channel	Verdict
11ax HE40	5270	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.27 GHz with a total channel power of 13.01 dBm/40.2 MHz. The reference level is set to 10.19 dB and the reference value is 30.00 dBm. The span is 80 MHz and the resolution bandwidth is 1.0000 MHz. The video bandwidth is 3.0000 MHz and the sweep time is 10.0 ms (1001 pts). The total power spectral density is -63.03 dBm/Hz.</p>		

Test Mode	Test Channel	Verdict
11ax HE40	5310	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5510	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5550	PASS
 <p>The screenshot displays the Spectrum Analyzer 1 Channel Power interface. The main plot shows a signal at 5.55 GHz with a total channel power of 13.59 dBm/40.4 MHz. The plot is set to a scale of 10.0 dB and a span of 80 MHz. The center frequency is 5.550101000 GHz. The video bandwidth is 3.0000 MHz, and the resolution bandwidth is 1.0000 MHz. The sweep time is 10.0 ms (1001 pts). The plot shows a signal with a peak at 5.55 GHz and a total channel power of 13.59 dBm/40.4 MHz. The plot is set to a scale of 10.0 dB and a span of 80 MHz. The center frequency is 5.550101000 GHz. The video bandwidth is 3.0000 MHz, and the resolution bandwidth is 1.0000 MHz. The sweep time is 10.0 ms (1001 pts).</p>		

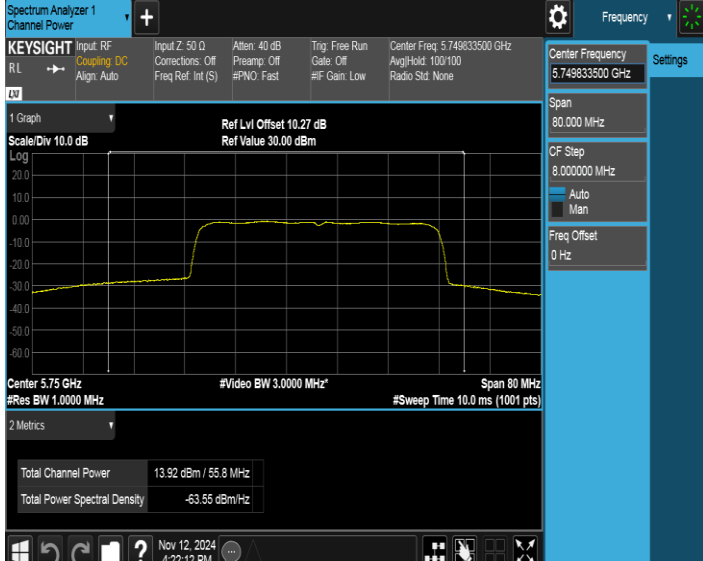
Test Mode	Test Channel	Verdict
11ax HE40	5670	PASS
 <p>The screenshot displays the Spectrum Analyzer 1 Channel Power interface. The main plot shows a signal at 5.67 GHz with a total channel power of 12.83 dBm/40.3 MHz. The plot is set to a scale of 10.0 dB and a span of 80 MHz. The center frequency is 5.669565000 GHz. The video bandwidth is 3.0000 MHz, and the resolution bandwidth is 1.0000 MHz. The sweep time is 10.0 ms (1001 pts). The plot shows a signal with a peak at 5.67 GHz and a total channel power of 12.83 dBm/40.3 MHz. The plot is set to a scale of 10.0 dB and a span of 80 MHz. The center frequency is 5.669565000 GHz. The video bandwidth is 3.0000 MHz, and the resolution bandwidth is 1.0000 MHz. The sweep time is 10.0 ms (1001 pts).</p>		

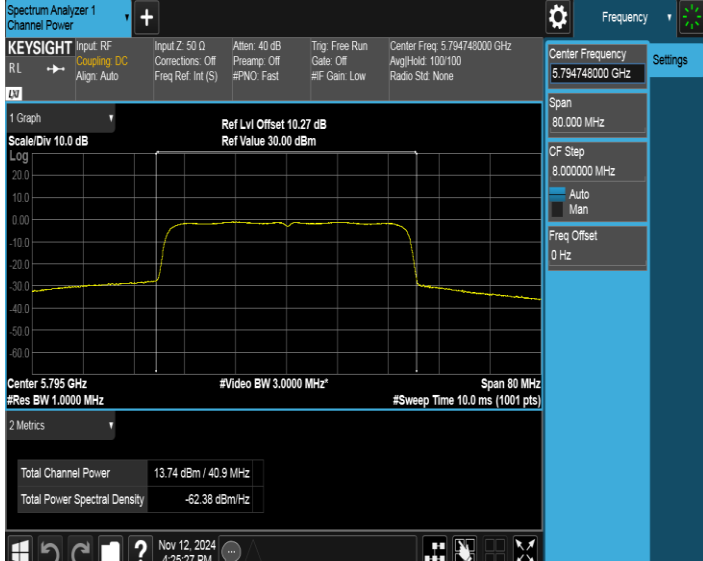
Test Mode	Test Channel	Verdict
11ax HE40	5710_UNII-3	PASS

The screenshot displays the Keysight Channel Power measurement interface. The main plot shows a spectral signal with a peak around 5.727 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, ranging from 5.710 to 5.740. The plot is titled '1 Graph' and 'Scale/Div 10.0 dB'. The signal is labeled 'Center Freq 5.727 GHz' and 'Span 9.69 MHz'. The resolution bandwidth is 'Res BW 1.0000 MHz' and the video bandwidth is 'Video BW 3.0000 MHz'. The sweep time is 'Sweep Time 10.0 ms (1001 pts)'. The measurement results are shown in a table at the bottom:

Metric	Value
Total Channel Power	-1.14 dBm / 4.85 MHz
Total Power Spectral Density	-67.99 dBm/Hz

The interface also includes a 'Settings' panel on the right with options for 'Center Frequency' (5.727422500 GHz), 'Span' (9.6900 MHz), 'CF Step' (969.000 kHz), 'Auto/Man' (Auto), 'Freq Offset' (0 Hz), and 'Ref Lvl Offset' (10.27 dB). The 'Ref Value' is 30.00 dBm.

Test Mode	Test Channel	Verdict
11ax HE40	5755	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.75 GHz with a total channel power of 13.92 dBm and a total power spectral density of -63.55 dBm/Hz. The settings include a center frequency of 5.749833500 GHz, a span of 80.000 MHz, and a resolution bandwidth of 1.0000 MHz. The signal is identified as 11ax HE40.</p>		

Test Mode	Test Channel	Verdict
11ax HE40	5795	PASS
 <p>The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.795 GHz with a total channel power of 13.74 dBm and a total power spectral density of -62.38 dBm/Hz. The settings include a center frequency of 5.794748000 GHz, a span of 80.000 MHz, and a resolution bandwidth of 1.0000 MHz. The signal is identified as 11ax HE40.</p>		

6.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	<input type="checkbox"/> Outdoor Access Point: 17 dBm/MHz <input type="checkbox"/> Indoor Access Point: 17 dBm/MHz <input type="checkbox"/> Fixed Point-To-Point Access Points: 17 dBm/MHz <input checked="" type="checkbox"/> Client Devices: 11 dBm/MHz	5150 ~ 5250
	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

ISED RSS-247 ISSUE 3		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.	5150 ~ 5250
	The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.	5250 ~ 5350 5470 ~ 5600 5650 ~ 5725
	30 dBm / 500 kHz	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.

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

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

Connect the EUT to the spectrum analyser and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

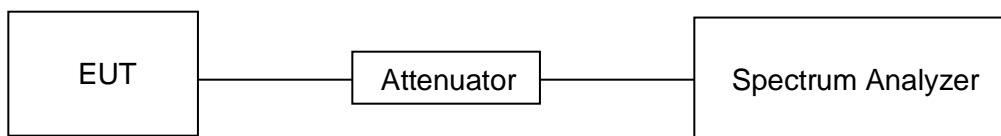
For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP



TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests
Relative Humidity	60%
Atmospheric Pressure:	101kPa
Temperature	22.2°C
Test Voltage	AC 120V
Test Date	11/12/2024

RESULTS

Band 1 & Band 2:

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11a	5180	-0.52	0	-0.52	11	/	2.66	2.14	10
	5200	2.28	0	2.28	11	/	2.66	4.94	10
	5240	1.88	0	1.88	11	/	2.66	4.54	10
	5260	2.21	0	2.21	11	11	2.66	4.87	/
	5280	2.19	0	2.19	11	11	2.66	4.85	/
	5320	2.46	0	2.46	11	11	2.66	5.12	/
	5500	2.71	0	2.71	11	11	2.66	5.37	/
	5580	1.93	0	1.93	11	11	2.66	4.59	/
	5700	1.52	0	1.52	11	11	2.66	4.18	/
	5720_ UNII-2C	1.06	0	1.06	11	11	2.66	3.72	/

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT20	5180	-0.52	0	2.11	11	/	2.66	4.77	10
	5200	2.28	0	2.27	11	/	2.66	4.93	10
	5240	1.88	0	1.91	11	/	2.66	4.57	10
	5260	2.21	0	2.07	11	11	2.66	4.73	/
	5280	2.19	0	2.03	11	11	2.66	4.69	/
	5320	2.46	0	2.41	11	11	2.66	5.07	/
	5500	2.71	0	2.45	11	11	2.66	5.11	/
	5580	1.93	0	1.84	11	11	2.66	4.50	/
	5700	1.52	0	1.41	11	11	2.66	4.07	/
	5720_ UNII-2C	1.06	0	0.91	11	11	2.66	3.57	/

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT40	5190	-1.38	0	-1.38	11	/	2.66	1.28	10
	5230	-1.10	0	-1.10	11	/	2.66	1.56	10
	5270	-1.11	0	-1.11	11	/	2.66	1.55	/
	5310	-0.82	0	-0.82	11	11	2.66	1.84	/
	5510	-0.94	0	-0.94	11	11	2.66	1.72	/
	5550	-0.54	0	-0.54	11	11	2.66	2.12	/
	5670	-1.44	0	-1.44	11	11	2.66	1.22	/
	5710_UNII-2C	-2.38	0	-2.38	11	11	2.66	0.28	/

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ax HE20	5180	1.64	0	1.64	11	/	2.66	4.30	10
	5200	1.83	0	1.83	11	/	2.66	4.49	10
	5240	1.46	0	1.46	11	/	2.66	4.12	10
	5260	1.73	0	1.73	11	11	2.66	4.39	/
	5280	1.64	0	1.64	11	11	2.66	4.30	/
	5320	2.03	0	2.03	11	11	2.66	4.69	/
	5500	2.44	0	2.44	11	11	2.66	5.10	/
	5580	1.63	0	1.63	11	11	2.66	4.29	/
	5700	1.05	0	1.05	11	11	2.66	3.71	/
	5720_UNII-2C	0.88	0	0.88	11	11	2.66	3.54	/

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD /MHz	FCC PSD Limit	ISED PSD Limit	Antenna Gain	EIRP PSD	ISED EIRP PSD Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT40	5190	-1.58	0	-1.58	11	/	2.66	1.08	10
	5230	-1.25	0	-1.25	11	/	2.66	1.41	10
	5270	-1.12	0	-1.12	11	/	2.66	1.54	/
	5310	-0.92	0	-0.92	11	11	2.66	1.74	/
	5510	-1.02	0	-1.02	11	11	2.66	1.64	/
	5550	-0.50	0	-0.50	11	11	2.66	2.16	/
	5670	-1.28	0	-1.28	11	11	2.66	1.38	/
	5710_UNII-2C	-4.04	0	-4.04	11	11	2.66	-1.38	/

Band 3:

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11a	5720_UNII-3	-1.87	0	-1.87	2.22	0.35	30
	5745	1.65	0	-0.57	2.22	1.65	30
	5785	2.30	0	0.08	2.22	2.30	30
	5825	1.71	0	-0.51	2.22	1.71	30

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT20	5720_UNII-3	-2.32	0	-2.32	2.22	-0.10	30
	5745	1.66	0	-0.56	2.22	1.66	30
	5785	2.08	0	-0.14	2.22	2.08	30
	5825	1.82	0	-0.40	2.22	1.82	30

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT40	5710_UNII-3	-6.36	0	-6.36	2.22	-4.14	30
	5755	-0.83	0	-3.05	2.22	-0.83	30
	5795	-1.20	0	-3.42	2.22	-1.20	30

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11ax HE20	5720_UNII-3	-2.20	0	-2.20	2.22	0.02	30
	5745	1.30	0	-0.92	2.22	1.30	30
	5785	1.83	0	-0.39	2.22	1.83	30
	5825	1.39	0	-0.83	2.22	1.39	30

Mode	Frequency	Measurement Value	Duty Cycle Correction Factor	PSD/300 kHz	Correct Factor	PSD/500 kHz	Limit
	MHz	dBm	dBm	dBm	dB	dBm	dBm
11ax HE40	5710_UNII-3	-8.16	0	-8.16	2.22	-5.94	30
	5755	-0.65	0	-2.87	2.22	-0.65	30
	5795	-1.19	0	-3.41	2.22	-1.19	30

Note:

- The Result and Limit Unit is dBm/500 kHz in the band 5.725 - 5.85 GHz.
- $$\text{PSD/500 kHz} = 10 \cdot \log \left(10^{\left(\frac{\text{PSD/300 kHz}}{10} \right) / 300 \cdot 500} \right)$$

$$= \text{PSD/300 kHz} + 2.2 \text{ dB}$$