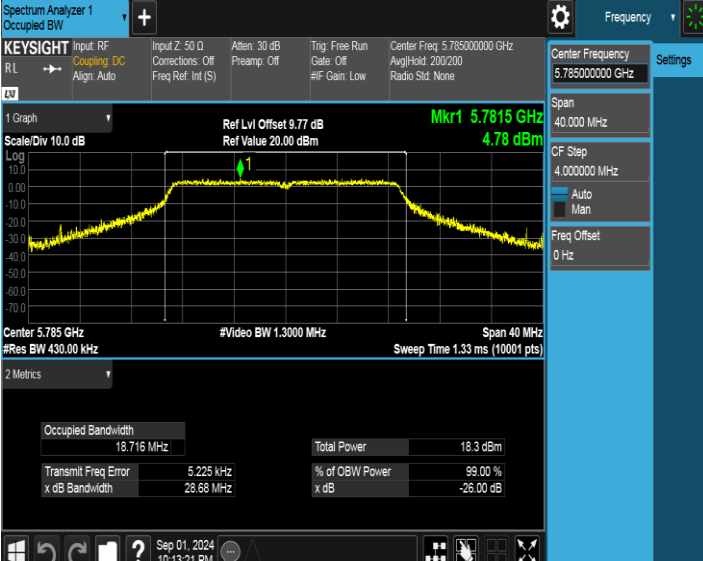


Test Mode	Test Channel	Verdict
11ac VHT20	5785	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.78500000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 9.77 dB Mkr1: 5.7815 GHz 4.78 dBm
 Ref Value: 20.00 dBm

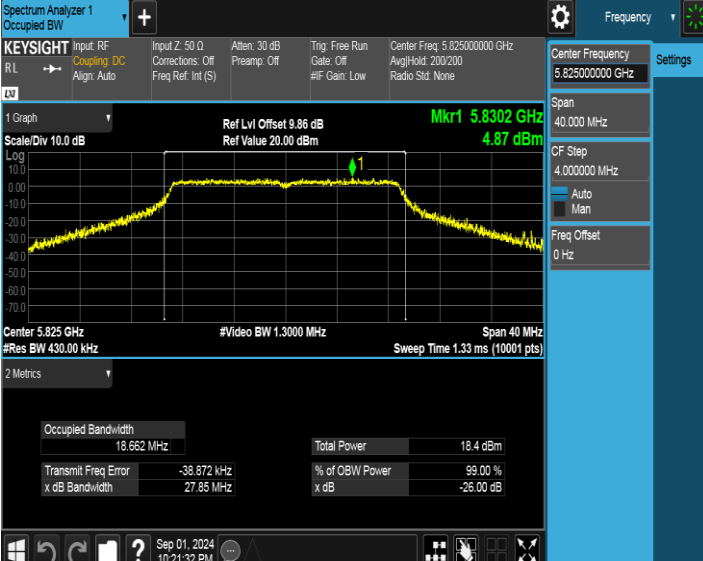
Center: 5.785 GHz #Video BW: 1.3000 MHz Span: 40 MHz
 #Res BW: 430.00 kHz Sweep Time: 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	18.716 MHz	Total Power	18.3 dBm
Transmit Freq Error	5.225 kHz	% of OBW Power	99.00 %
x dB Bandwidth	28.68 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ac VHT20	5825	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 5.82500000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Scale/Div: 10.0 dB Log Ref Lvl Offset: 9.86 dB Mkr1: 5.8302 GHz 4.87 dBm
 Ref Value: 20.00 dBm

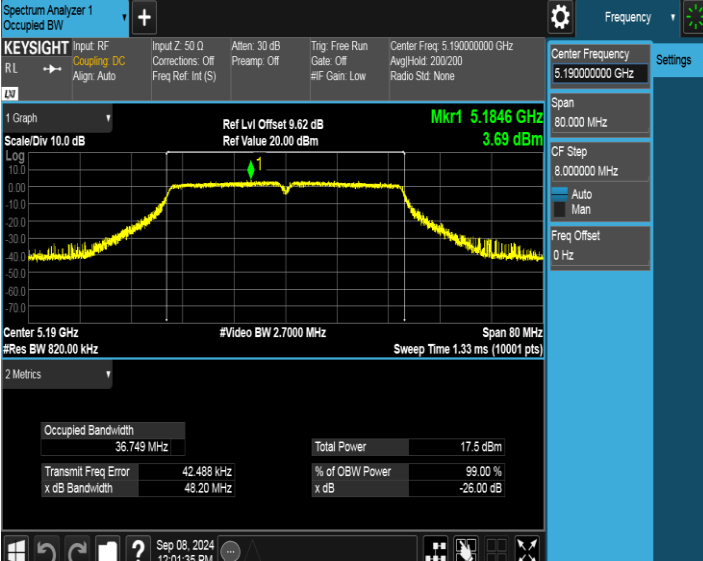
Center: 5.825 GHz #Video BW: 1.3000 MHz Span: 40 MHz
 #Res BW: 430.00 kHz Sweep Time: 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	18.662 MHz	Total Power	18.4 dBm
Transmit Freq Error	-38.872 kHz	% of OBW Power	99.00 %
x dB Bandwidth	27.85 MHz	x dB	-26.00 dB

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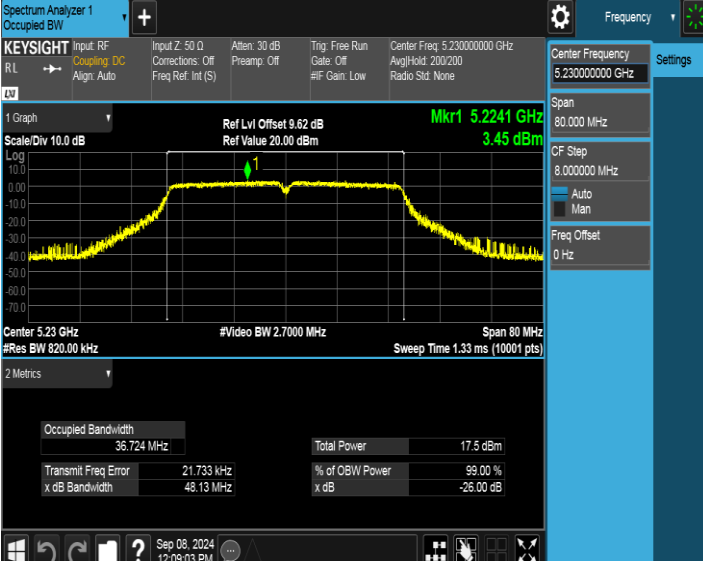
Test Mode	Test Channel	Verdict
11ac VHT40	5190	PASS



Test Channel 5190 Metrics:

- Center Frequency: 5.19000000 GHz
- Span: 80.000 MHz
- CF Step: 8.000000 MHz
- Freq Offset: 0 Hz
- Occupied Bandwidth: 36.749 MHz
- Total Power: 17.5 dBm
- Transmit Freq Error: 42.488 kHz
- % of OBW Power: 99.00 %
- x dB Bandwidth: 48.20 MHz
- x dB: -26.00 dB

Test Mode	Test Channel	Verdict
11ac VHT40	5230	PASS



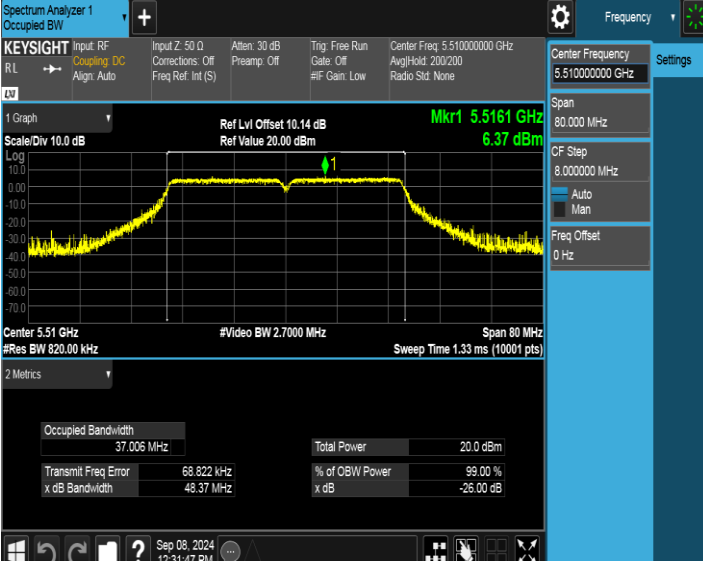
Test Channel 5230 Metrics:

- Center Frequency: 5.23000000 GHz
- Span: 80.000 MHz
- CF Step: 8.000000 MHz
- Freq Offset: 0 Hz
- Occupied Bandwidth: 36.724 MHz
- Total Power: 17.5 dBm
- Transmit Freq Error: 21.733 kHz
- % of OBW Power: 99.00 %
- x dB Bandwidth: 48.13 MHz
- x dB: -26.00 dB

Test Mode	Test Channel	Verdict
11ac VHT40	5270	PASS
<div><div><div><div><div>Spectrum Analyzer 1</div><div>Occupied BW</div></div><div><div>KEYSIGHT</div><div>Input: RF</div><div>RL</div></div><div><div>Coupling: DC</div><div>Align: Auto</div></div><div><div>Input Z: 50 Ω</div><div>Corrections: Off</div><div>Freq Ref: Int (S)</div></div><div><div>Atten: 30 dB</div><div>Preamp: Off</div></div><div><div>Trig: Free Run</div><div>Gate: Off</div><div>#F Gain: Low</div></div><div><div>Center Freq: 5.270000000 GHz</div><div>Avg/Hold: 200/200</div><div>Radio Std: None</div></div></div><div><div>1 Graph</div><div>Scale/Div 10.0 dB</div><div>Log</div><div>Ref Lvl Offset 9.69 dB</div><div>Ref Value 20.00 dBm</div><div>Mkr1 5.2671 GHz</div><div>4.70 dBm</div><div>Center 5.27 GHz</div><div>#Res BW 820.00 kHz</div><div>#Video BW 2.7000 MHz</div><div>Span 80 MHz</div><div>Sweep Time 1.33 ms (10001 pts)</div><div>2 Metrics</div><div><div>Occupied Bandwidth</div><div>36.728 MHz</div><div>Total Power</div><div>18.1 dBm</div><div>Transmit Freq Error</div><div>40.650 kHz</div><div>% of OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>48.53 MHz</div><div>x dB</div><div>-26.00 dB</div></div></div><div><div>Frequency</div><div>Settings</div><div>Center Frequency</div><div>5.270000000 GHz</div><div>Span</div><div>80.000 MHz</div><div>CF Step</div><div>8.0000000 MHz</div><div>Auto</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div><div><div>Sep 08, 2024</div><div>12:16:36 PM</div></div></div>		

Test Mode	Test Channel	Verdict
11ac VHT40	5310	PASS
<div><div><div><div><div>Spectrum Analyzer 1</div><div>Occupied BW</div></div><div><div><div>KEYSIGHT</div><div>Input: RF</div><div>Input Z: 50 Ω</div><div>Atten: 30 dB</div><div>Trig: Free Run</div><div>Center Freq: 5.31000000 GHz</div></div><div><div>RL</div><div>Coupling: DC</div><div>Corrections: Off</div><div>Preamp: Off</div><div>Gate: Off</div><div>Avg/Hold: 200/200</div></div><div><div>Align: Auto</div><div>Freq Ref: Int (S)</div><div>#IF Gain: Low</div><div>Radio Std: None</div></div></div><div><div>1 Graph</div><div>Scale/Div: 10.0 dB</div><div>Log</div><div>Ref Lvl Offset: 9.69 dB</div><div>Ref Value: 20.00 dBm</div><div>Mkr1: 5.2984 GHz</div><div>4.55 dBm</div><div>Center: 5.31 GHz</div><div>#Res BW: 820.00 kHz</div><div>#Video BW: 2.7000 MHz</div><div>Span: 80 MHz</div><div>Sweep Time: 1.33 ms (10001 pts)</div></div><div><div>2 Metrics</div><div>Occupied Bandwidth</div><div>36.761 MHz</div><div>Total Power</div><div>18.3 dBm</div><div>Transmit Freq Error</div><div>12.291 kHz</div><div>% of OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>47.47 MHz</div><div>x dB</div><div>-26.00 dB</div></div></div><div><div>Frequency</div><div>Settings</div><div>Center Frequency</div><div>5.310000000 GHz</div><div>Span</div><div>80.000 MHz</div><div>CF Step</div><div>8.0000000 MHz</div><div>Auto</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div><div><div>Sep 08, 2024</div><div>12:24:10 PM</div></div></div></div>		

Test Mode	Test Channel	Verdict
11ac VHT40	5510	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.51000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Ref Lvl Offset 10.14 dB Mkr1 5.5161 GHz 6.37 dBm
 Scale/Div 10.0 dB Log Ref Value 20.00 dBm

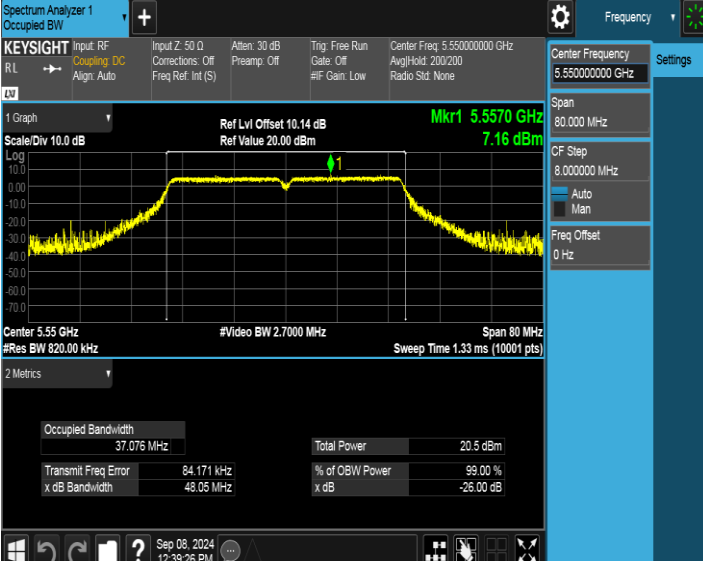
Center 5.51 GHz #Video BW 2.7000 MHz Span 80 MHz
 #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	37.006 MHz	Total Power	20.0 dBm
Transmit Freq Error	68.822 kHz	% of OBW Power	99.00 %
x dB Bandwidth	48.37 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ac VHT40	5550	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.55000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Ref Lvl Offset 10.14 dB Mkr1 5.5570 GHz 7.16 dBm
 Scale/Div 10.0 dB Log Ref Value 20.00 dBm

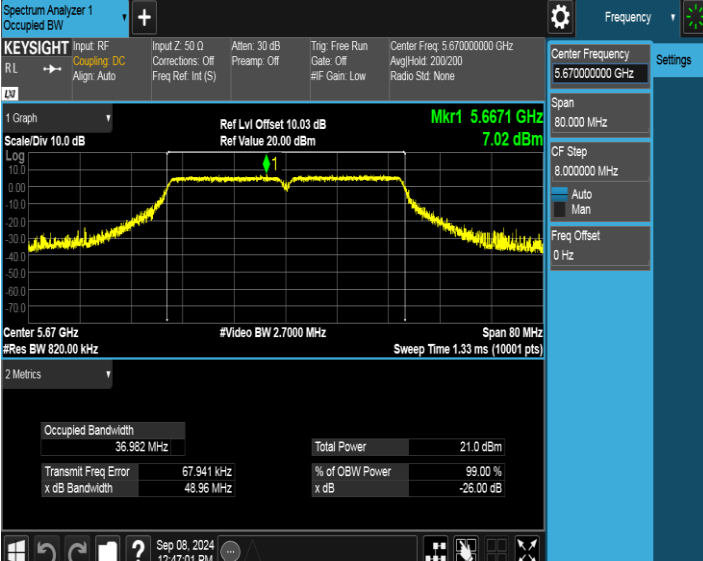
Center 5.55 GHz #Video BW 2.7000 MHz Span 80 MHz
 #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	37.076 MHz	Total Power	20.5 dBm
Transmit Freq Error	84.171 kHz	% of OBW Power	99.00 %
x dB Bandwidth	48.05 MHz	x dB	-26.00 dB

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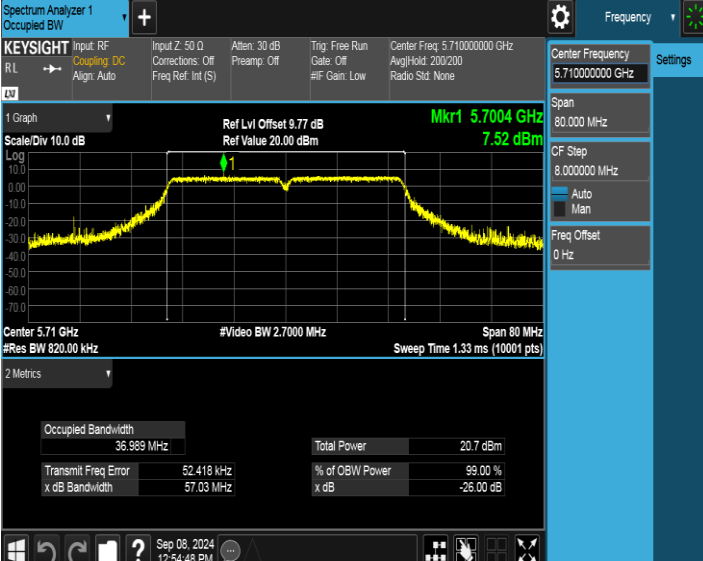
Test Mode	Test Channel	Verdict
11ac VHT40	5670	PASS



Test Channel 5670 Metrics:

- Center Frequency: 5.67000000 GHz
- Span: 80.000 MHz
- CF Step: 8.000000 MHz
- Freq Offset: 0 Hz
- Occupied Bandwidth: 36.982 MHz
- Total Power: 21.0 dBm
- Transmit Freq Error: 67.941 kHz
- % of OBIW Power: 99.00 %

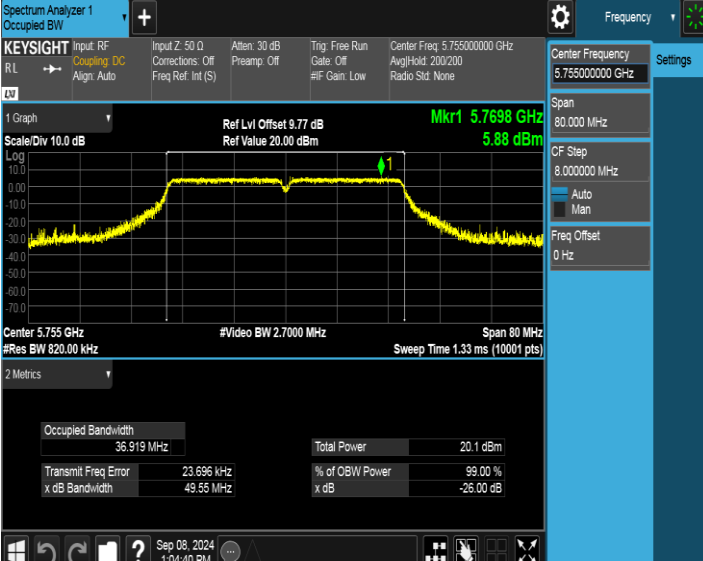
Test Mode	Test Channel	Verdict
11ac VHT40	5710	PASS



Test Channel 5710 Metrics:

- Center Frequency: 5.71000000 GHz
- Span: 80.000 MHz
- CF Step: 8.000000 MHz
- Freq Offset: 0 Hz
- Occupied Bandwidth: 36.989 MHz
- Total Power: 20.7 dBm
- Transmit Freq Error: 52.418 kHz
- % of OBIW Power: 99.00 %

Test Mode	Test Channel	Verdict
11ac VHT40	5755	PASS



Spectrum Analyzer 1
KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.75500000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
 Scale/Div 10.0 dB
 Log
 Ref Lvl Offset 9.77 dB
 Ref Value 20.00 dBm
 Mkr1 5.7698 GHz
 5.88 dBm

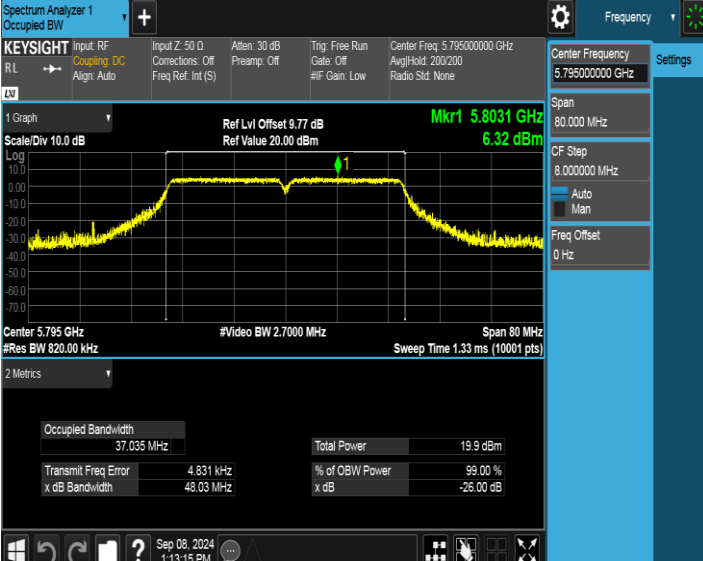
Center 5.755 GHz #Video BW 2.7000 MHz Span 80 MHz
 #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	36.919 MHz	Total Power	20.1 dBm
Transmit Freq Error	23.696 kHz	% of OBW Power	99.00 %
x dB Bandwidth	49.55 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ac VHT40	5795	PASS



Spectrum Analyzer 1
KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.79500000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
 Scale/Div 10.0 dB
 Log
 Ref Lvl Offset 9.77 dB
 Ref Value 20.00 dBm
 Mkr1 5.8031 GHz
 6.32 dBm

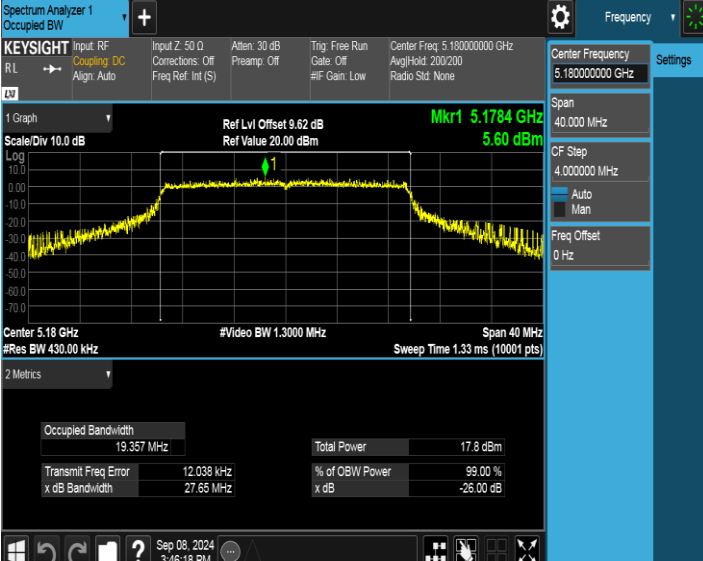
Center 5.795 GHz #Video BW 2.7000 MHz Span 80 MHz
 #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	37.035 MHz	Total Power	19.9 dBm
Transmit Freq Error	4.831 kHz	% of OBW Power	99.00 %
x dB Bandwidth	48.03 MHz	x dB	-26.00 dB

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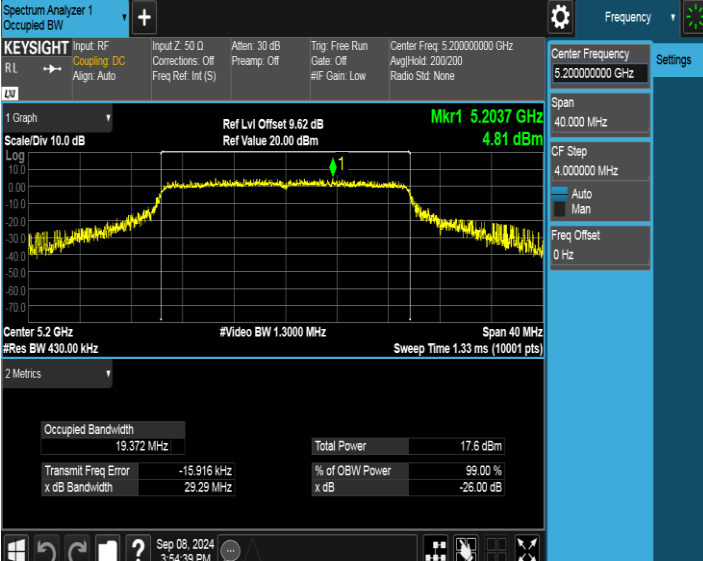
Test Mode	Test Channel	Verdict
11ax HE20	5180	PASS



Test Channel 5180 Metrics:

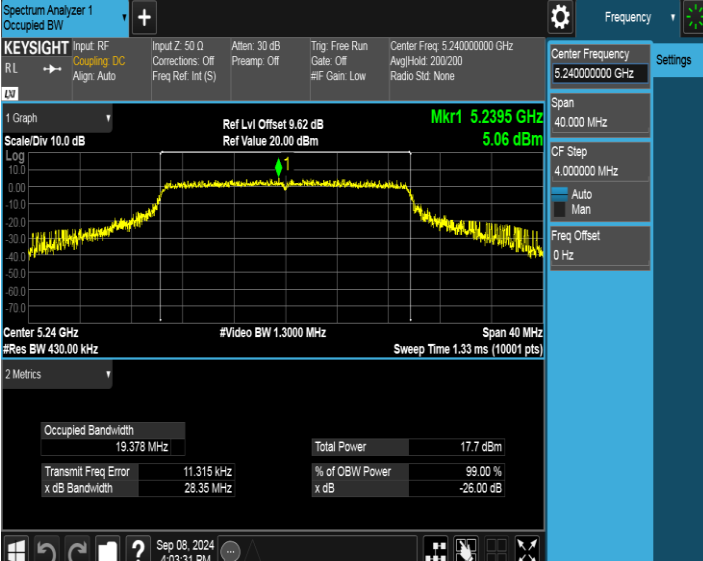
- Center Frequency: 5.18000000 GHz
- Span: 40.000 MHz
- CF Step: 4.000000 MHz
- Freq Offset: 0 Hz
- Occupied Bandwidth: 19.357 MHz
- Total Power: 17.8 dBm
- Transmit Freq Error: 12.038 kHz
- % of OBW Power: 99.00 %
- x dB Bandwidth: 27.65 MHz
- x dB: -26.00 dB

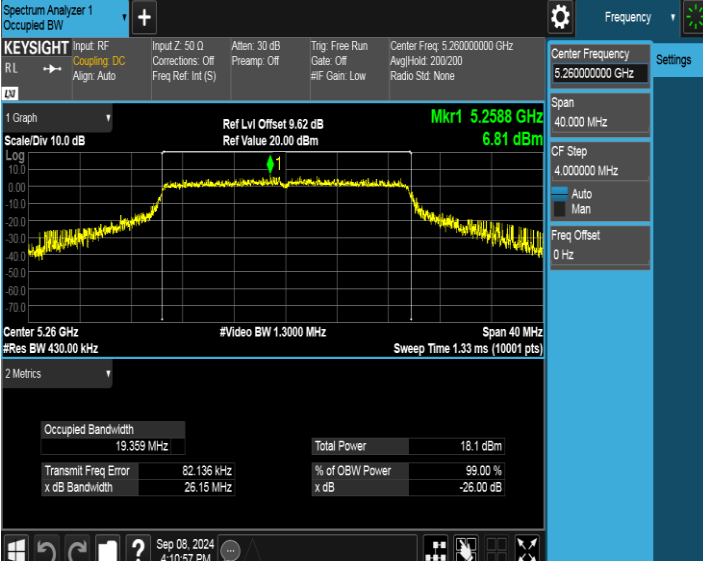
Test Mode	Test Channel	Verdict
11ax HE20	5200	PASS



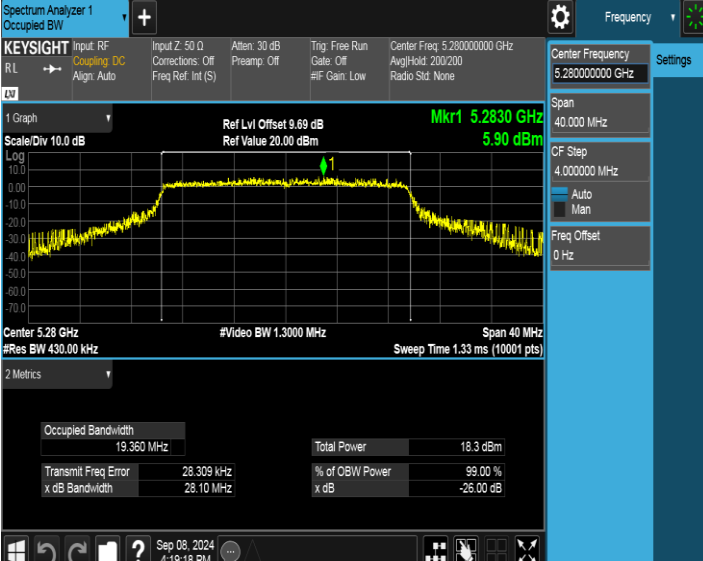
Test Channel 5200 Metrics:

- Center Frequency: 5.20000000 GHz
- Span: 40.000 MHz
- CF Step: 4.000000 MHz
- Freq Offset: 0 Hz
- Occupied Bandwidth: 19.372 MHz
- Total Power: 17.6 dBm
- Transmit Freq Error: -15.916 kHz
- % of OBW Power: 99.00 %
- x dB Bandwidth: 29.29 MHz
- x dB: -26.00 dB

Test Mode	Test Channel	Verdict
11ax HE20	5240	PASS
 <p>Test Channel 5240 Metrics:</p> <ul style="list-style-type: none"> Center Frequency: 5.24000000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 19.378 MHz Total Power: 17.7 dBm Transmit Freq Error: 11.315 kHz % of OBW Power: 99.00 % 		

Test Mode	Test Channel	Verdict
11ax HE20	5260	PASS
 <p>Test Channel 5260 Metrics:</p> <ul style="list-style-type: none"> Center Frequency: 5.26000000 GHz Span: 40.000 MHz CF Step: 4.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 19.359 MHz Total Power: 18.1 dBm Transmit Freq Error: 82.136 kHz % of OBW Power: 99.00 % 		

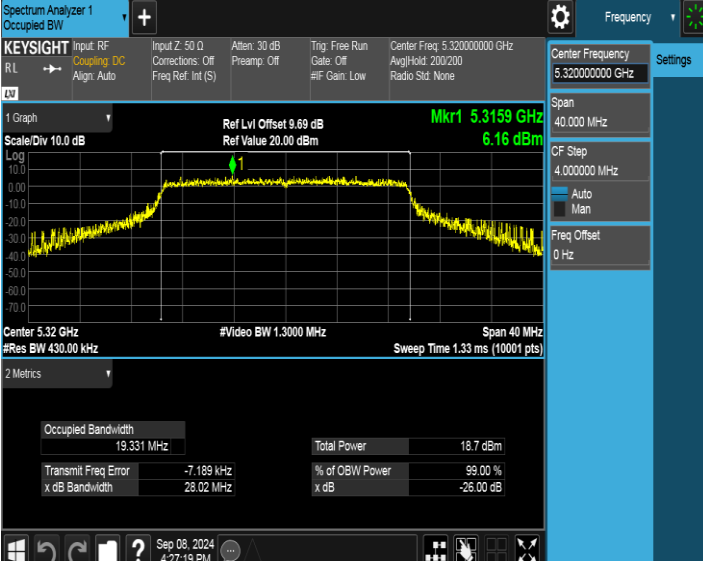
Test Mode	Test Channel	Verdict
11ax HE20	5280	PASS



Test Channel 5280 Metrics:

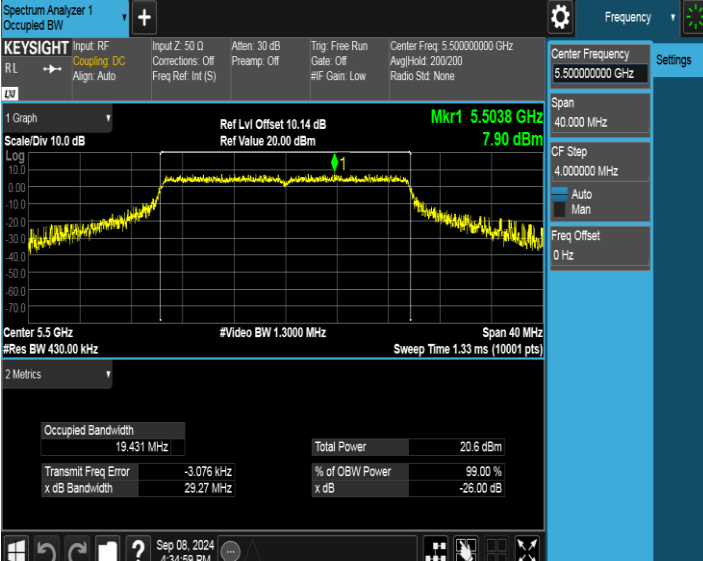
Occupied Bandwidth	19.360 MHz	Total Power	18.3 dBm
Transmit Freq Error	28.309 kHz	% of OBW Power	99.00 %
x dB Bandwidth	28.10 MHz	x dB	-26.00 dB

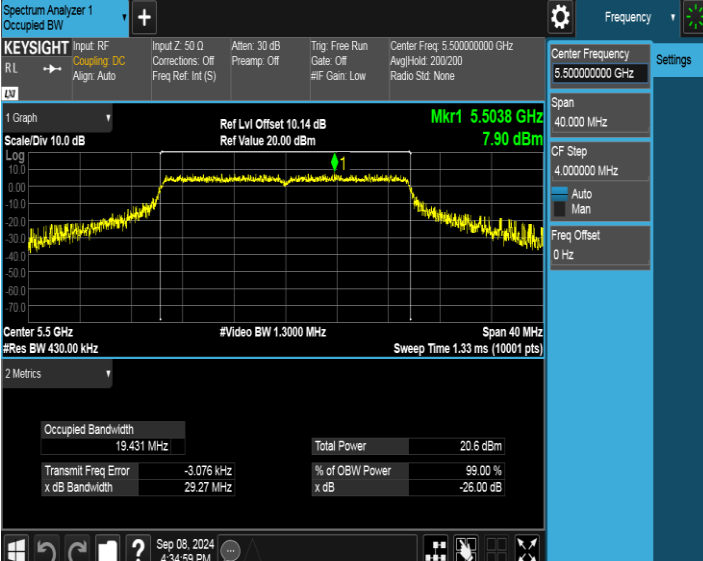
Test Mode	Test Channel	Verdict
11ax HE20	5320	PASS

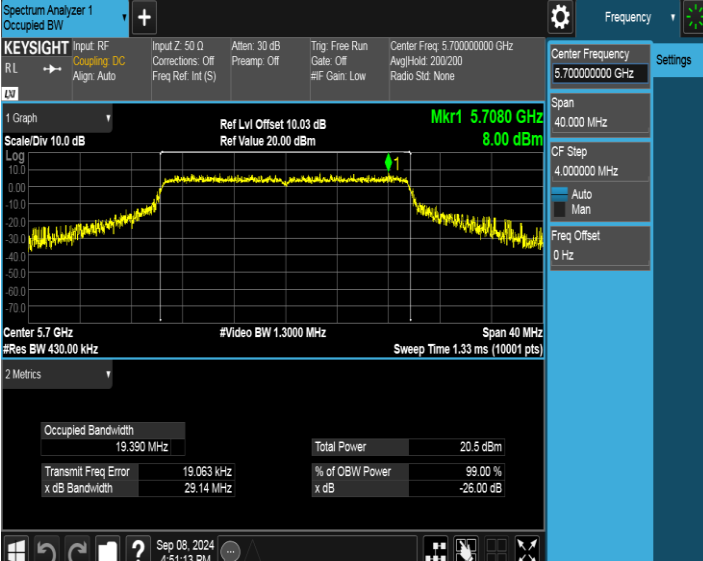


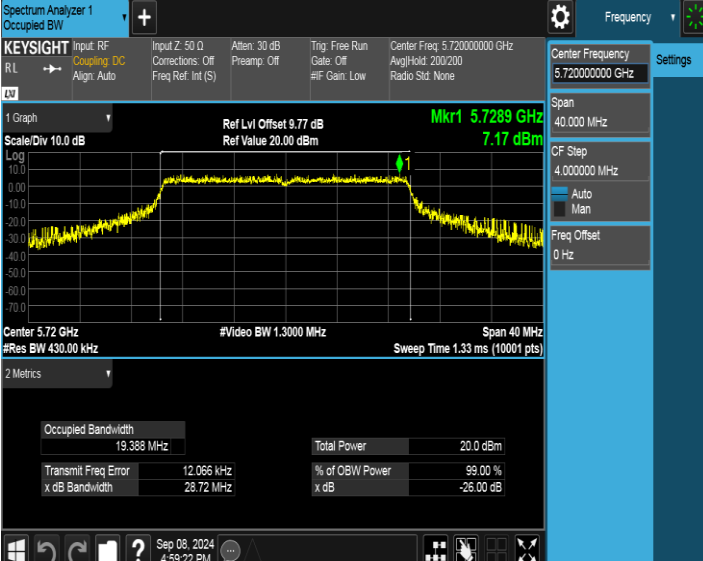
Test Channel 5320 Metrics:

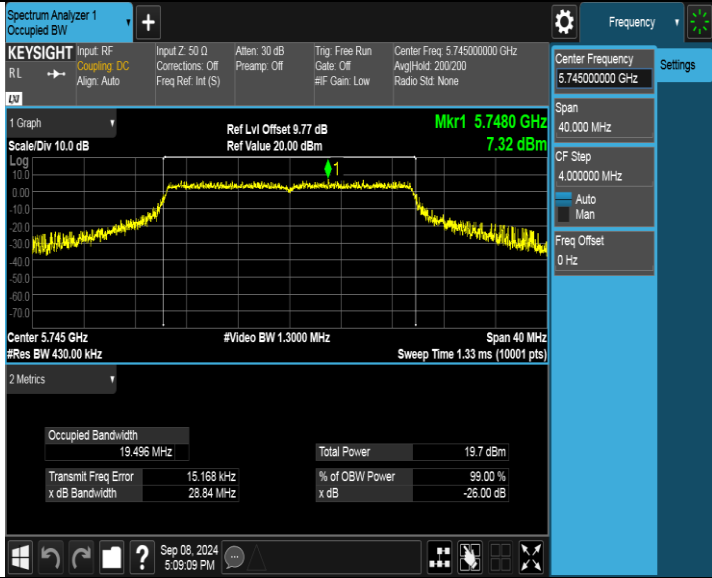
Occupied Bandwidth	19.331 MHz	Total Power	18.7 dBm
Transmit Freq Error	-7.189 kHz	% of OBW Power	99.00 %
x dB Bandwidth	28.02 MHz	x dB	-26.00 dB

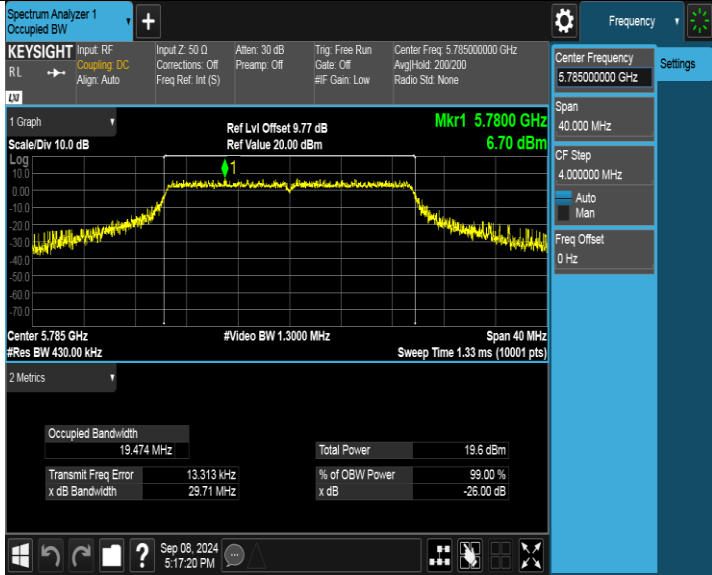
Test Mode	Test Channel	Verdict
11ax HE20	5500	PASS
 <p>The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.5038 GHz with a peak level of 7.90 dBm. The center frequency is set to 5.50000000 GHz, and the span is 40.000 MHz. The scale is 10.0 dB. The interface includes various settings like Center Frequency, Span, CF Step, Freq Offset, and Metrics. The metrics section shows Occupied Bandwidth of 19.431 MHz, Total Power of 20.6 dBm, Transmit Freq Error of -3.076 kHz, and % of OBW Power of 99.00 %.</p>		

Test Mode	Test Channel	Verdict
11ax HE20	5580	PASS
 <p>The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a signal at 5.5038 GHz with a peak level of 7.90 dBm. The center frequency is set to 5.50000000 GHz, and the span is 40.000 MHz. The scale is 10.0 dB. The interface includes various settings like Center Frequency, Span, CF Step, Freq Offset, and Metrics. The metrics section shows Occupied Bandwidth of 19.431 MHz, Total Power of 20.6 dBm, Transmit Freq Error of -3.076 kHz, and % of OBW Power of 99.00 %.</p>		

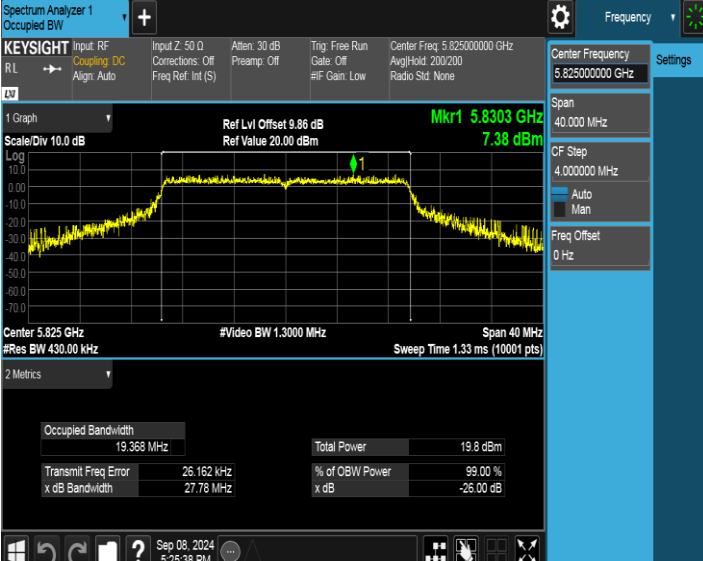
Test Mode	Test Channel	Verdict
11ax HE20	5700	PASS
		

Test Mode	Test Channel	Verdict
11ax HE20	5720	PASS
		

Test Mode	Test Channel	Verdict
11ax HE20	5745	PASS
		

Test Mode	Test Channel	Verdict
11ax HE20	5785	PASS
		

Test Mode	Test Channel	Verdict
11ax HE20	5825	PASS



Spectrum Analyzer 1
KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.82500000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph
 Scale/Div: 10.0 dB
 Log
 Ref Lvl Offset: 9.86 dB
 Ref Value: 20.00 dBm
 Mkr1: 5.8303 GHz
 7.38 dBm

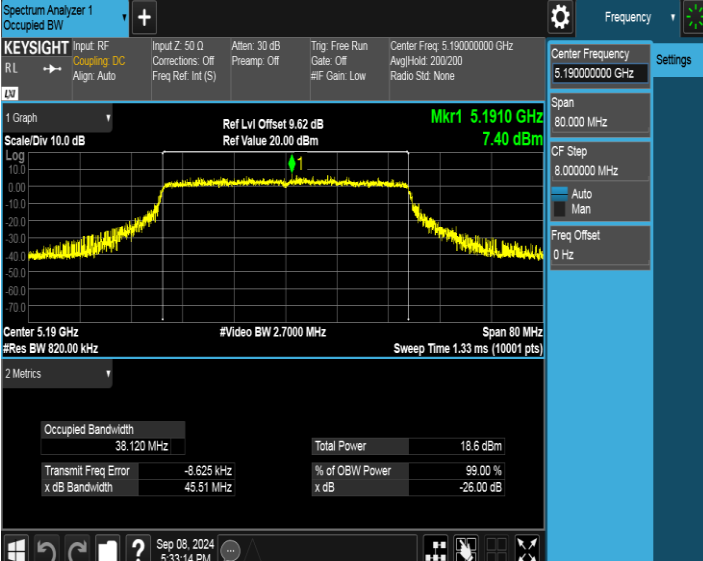
Center: 5.825 GHz #Video BW: 1.3000 MHz Span: 40 MHz
 #Res BW: 430.00 kHz Sweep Time: 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	19.368 MHz	Total Power	19.8 dBm
Transmit Freq Error	25.162 kHz	% of OBW Power	99.00 %
x dB Bandwidth	27.78 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ax HE40	5190	PASS



Spectrum Analyzer 1
KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.19000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

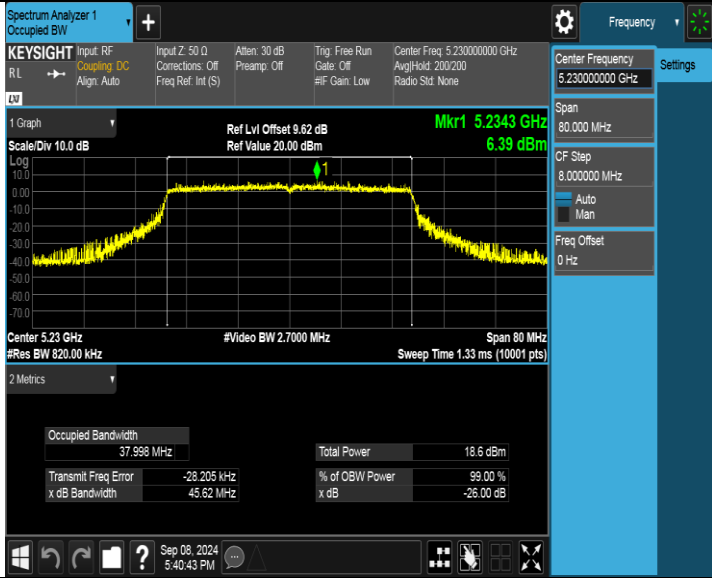
1 Graph
 Scale/Div: 10.0 dB
 Log
 Ref Lvl Offset: 9.62 dB
 Ref Value: 20.00 dBm
 Mkr1: 5.1910 GHz
 7.40 dBm

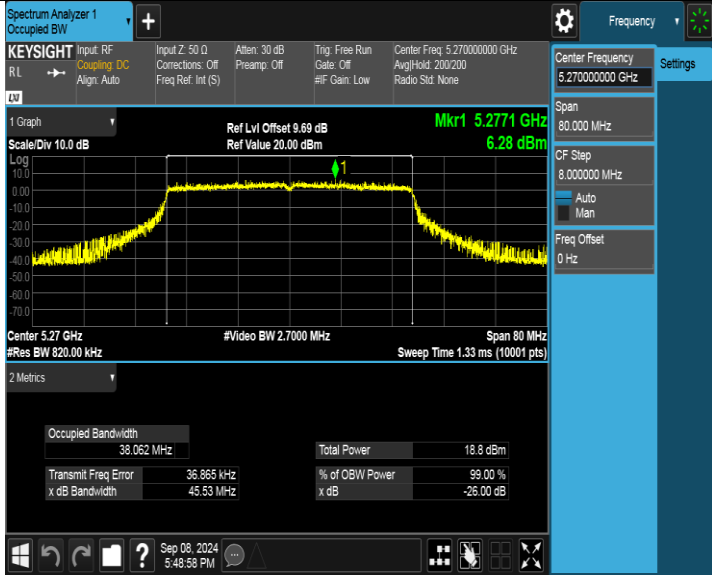
Center: 5.19 GHz #Video BW: 2.7000 MHz Span: 60 MHz
 #Res BW: 820.00 kHz Sweep Time: 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	38.120 MHz	Total Power	18.6 dBm
Transmit Freq Error	-8.625 kHz	% of OBW Power	99.00 %
x dB Bandwidth	45.51 MHz	x dB	-26.00 dB

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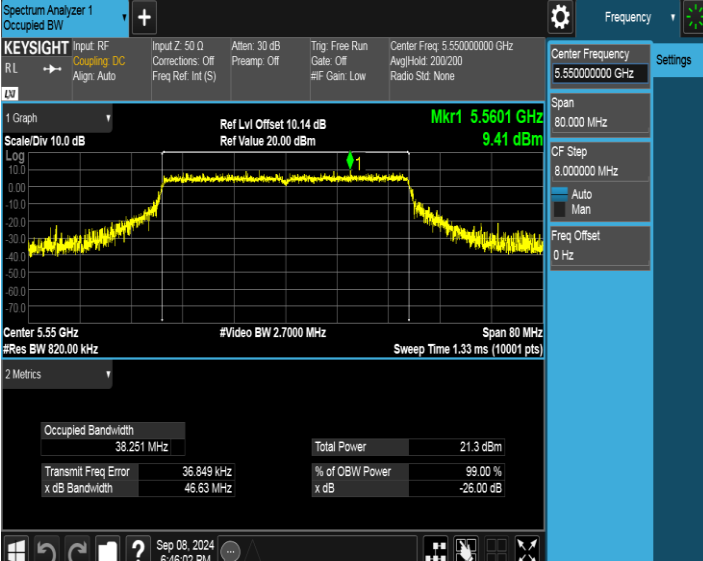
Test Mode	Test Channel	Verdict
11ax HE40	5230	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5270	PASS
		

Test Mode	Test Channel	Verdict
11ax HE40	5310	PASS
<div><div><div><div><div>Spectrum Analyzer 1</div><div>Occupied BW</div></div><div><div>KEYSIGHT</div><div>Input: RF</div><div>Coupling: DC</div><div>RL</div><div>Align: Auto</div></div><div><div>Input Z: 50 Ω</div><div>Corrections: Off</div><div>Freq Ref: Int (S)</div></div><div><div>Atten: 30 dB</div><div>Preamp: Off</div></div><div><div>Trig: Free Run</div><div>Gate: Off</div><div>#IF Gain: Low</div></div><div><div>Center Freq: 5.310000000 GHz</div><div>Avg/Hold: 200/200</div><div>Radio Std: None</div></div></div></div><div><div>Frequency</div><div>Settings</div><div>Center Frequency</div><div>5.310000000 GHz</div><div>Span</div><div>80.000 MHz</div><div>CF Step</div><div>8.0000000 MHz</div><div>Auto</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div> <div><div>1 Graph</div><div>Scale/Div 10.0 dB</div><div>Log</div><div>Ref Lvl Offset 9.69 dB</div><div>Mkr1 5.3133 GHz</div><div>6.74 dBm</div><div>Ref Value 20.00 dBm</div><div>Center 5.31 GHz</div><div>#Video BW 2.7000 MHz</div><div>Span 80 MHz</div><div>#Res BW 820.00 kHz</div><div>Sweep Time 1.33 ms (10001 pts)</div><div>2 Metrics</div><div><div>Occupied Bandwidth</div><div>38.062 MHz</div><div>Total Power</div><div>19.0 dBm</div><div>Transmit Freq Error</div><div>25.424 kHz</div><div>% of OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>46.63 MHz</div><div>x dB</div><div>-26.00 dB</div></div><div><div>Sep 08, 2024</div><div>5:56:27 PM</div></div></div>		

Test Mode	Test Channel	Verdict
11ax HE40	5510	PASS
<div><div><div><div><div>Spectrum Analyzer 1</div><div>Occupied BW</div></div><div><div><div>KEYSIGHT</div><div>Input: RF</div><div>Coupling: DC</div><div>RL</div></div><div><div>Input Z: 50 Ω</div><div>Corrections: Off</div><div>Align: Auto</div></div><div><div>Att: 30 dB</div><div>Preamp: Off</div><div>Freq Ref: Int (S)</div></div><div><div>Trig: Free Run</div><div>Gate: Off</div><div>#IF Gain: Low</div></div><div><div>Center Freq: 5.51000000 GHz</div><div>Avg/Hold: 200/200</div><div>Radio Std: None</div></div></div></div><div><div>Frequency</div><div>Settings</div></div><div><div>Center Frequency</div><div>5.51000000 GHz</div></div><div><div>Span</div><div>80.000 MHz</div></div><div><div>CF Step</div><div>8.000000 MHz</div></div><div><div>Auto</div><div>Man</div></div><div><div>Freq Offset</div><div>0 Hz</div></div><div><div>1 Graph</div><div>Scale/Div 10.0 dB</div><div>Log</div><div>Ref Lvl Offset 10.14 dB</div><div>Ref Value 20.00 dBm</div><div>Mkr1 5.5168 GHz</div><div>8.17 dBm</div><div>Center 5.51 GHz</div><div>#Video BW 2.7000 MHz</div><div>Span 80 MHz</div><div>#Res BW 820.00 kHz</div><div>Sweep Time 1.33 ms (10001 pts)</div><div>2 Metrics</div><div><div>Occupied Bandwidth</div><div>38.273 MHz</div><div>Total Power</div><div>20.9 dBm</div><div>Transmit Freq Error</div><div>38.406 kHz</div><div>% of OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>47.30 MHz</div><div>x dB</div><div>-26.00 dB</div></div><div><div>Sep 08, 2024</div><div>6:42:54 PM</div></div></div></div></div>		

Test Mode	Test Channel	Verdict
11ax HE40	5550	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.55000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Ref Lvl Offset 10.14 dB Mkr1 5.5601 GHz 9.41 dBm
 Scale/Div 10.0 dB Log Ref Value 20.00 dBm

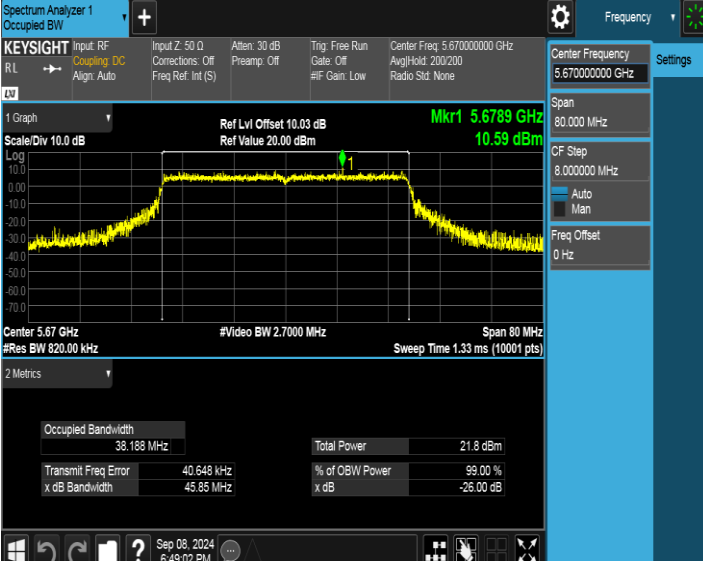
Center 5.55 GHz #Video BW 2.7000 MHz Span 80 MHz
 #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	38.251 MHz	Total Power	21.3 dBm
Transmit Freq Error	36.849 kHz	% of OBW Power	99.00 %
x dB Bandwidth	46.63 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ax HE40	5670	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.67000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Ref Lvl Offset 10.03 dB Mkr1 5.6789 GHz 10.59 dBm
 Scale/Div 10.0 dB Log Ref Value 20.00 dBm

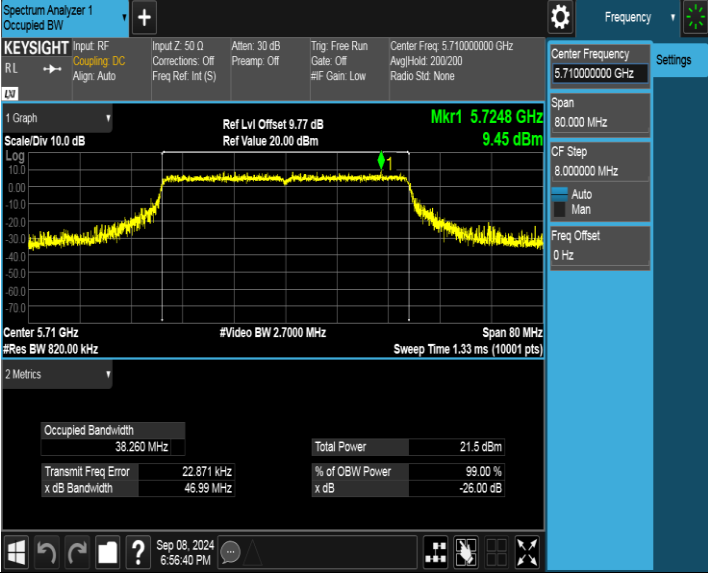
Center 5.67 GHz #Video BW 2.7000 MHz Span 60 MHz
 #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	38.188 MHz	Total Power	21.8 dBm
Transmit Freq Error	40.648 kHz	% of OBW Power	99.00 %
x dB Bandwidth	45.85 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ax HE40	5710	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.71000000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 9.77 dB Mkr1 5.7248 GHz 9.45 dBm
 Ref Value 20.00 dBm

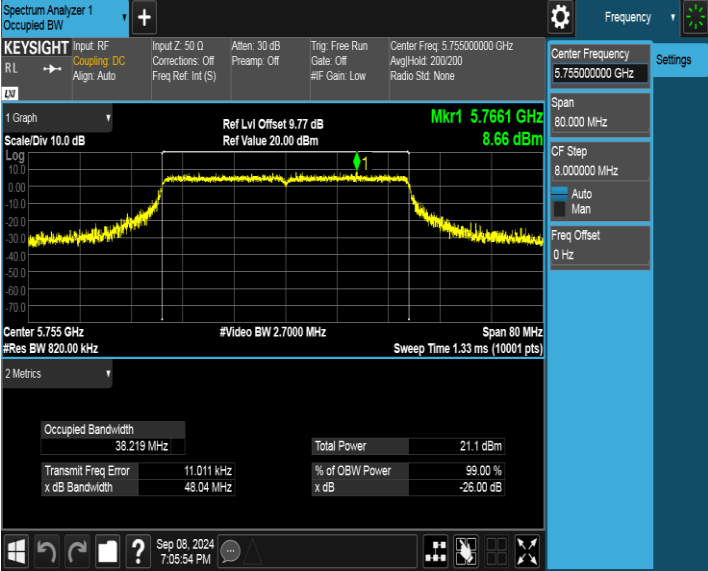
Center 5.71 GHz #Video BW 2.7000 MHz Span 80 MHz
 #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	38.260 MHz	Total Power	21.5 dBm
Transmit Freq Error	22.871 kHz	% of OBW Power	99.00 %
x dB Bandwidth	46.99 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11ax HE40	5755	PASS



Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Input Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 5.75500000 GHz
 R/L → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200
 Align: Auto Freq Ref: Int (S) #IF Gain: Low Radio Std: None

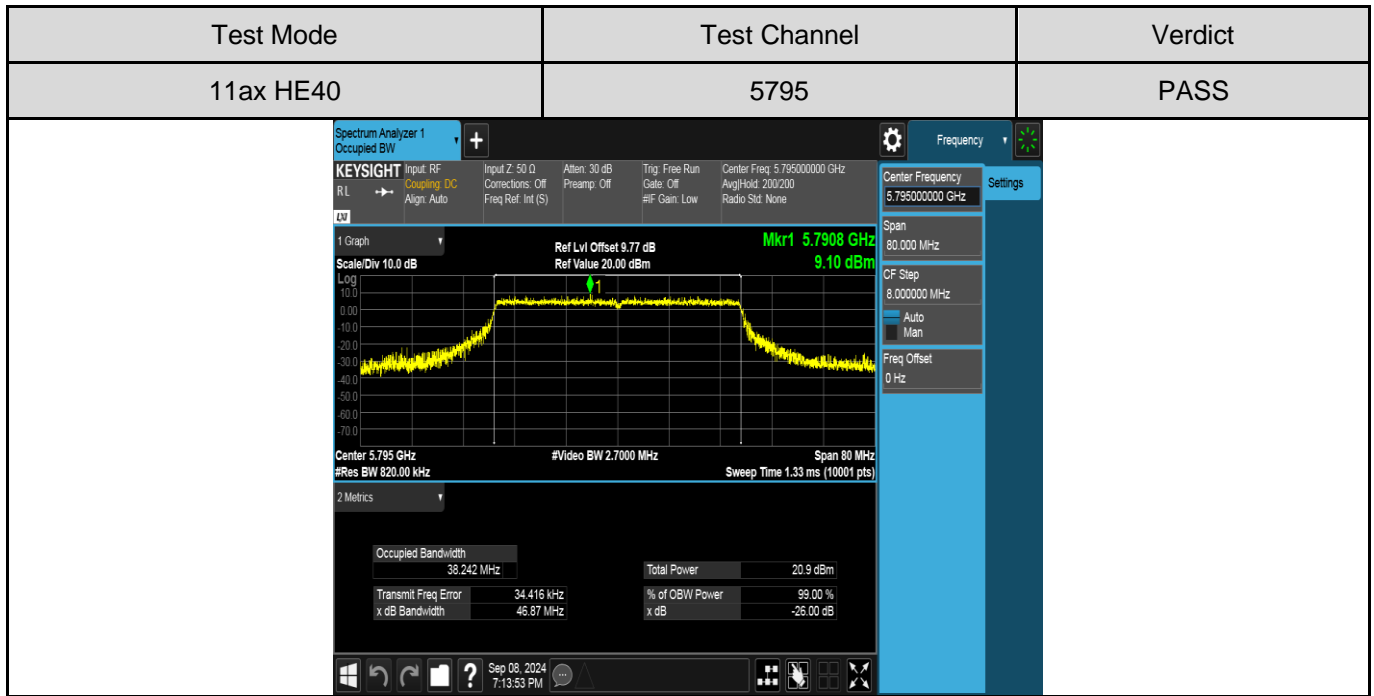
1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 9.77 dB Mkr1 5.7661 GHz 8.66 dBm
 Ref Value 20.00 dBm

Center 5.755 GHz #Video BW 2.7000 MHz Span 80 MHz
 #Res BW 820.00 kHz Sweep Time 1.33 ms (10001 pts)

2 Metrics


Occupied Bandwidth	38.219 MHz	Total Power	21.1 dBm
Transmit Freq Error	11.011 kHz	% of OBW Power	99.00 %
x dB Bandwidth	48.04 MHz	x dB	-26.00 dB

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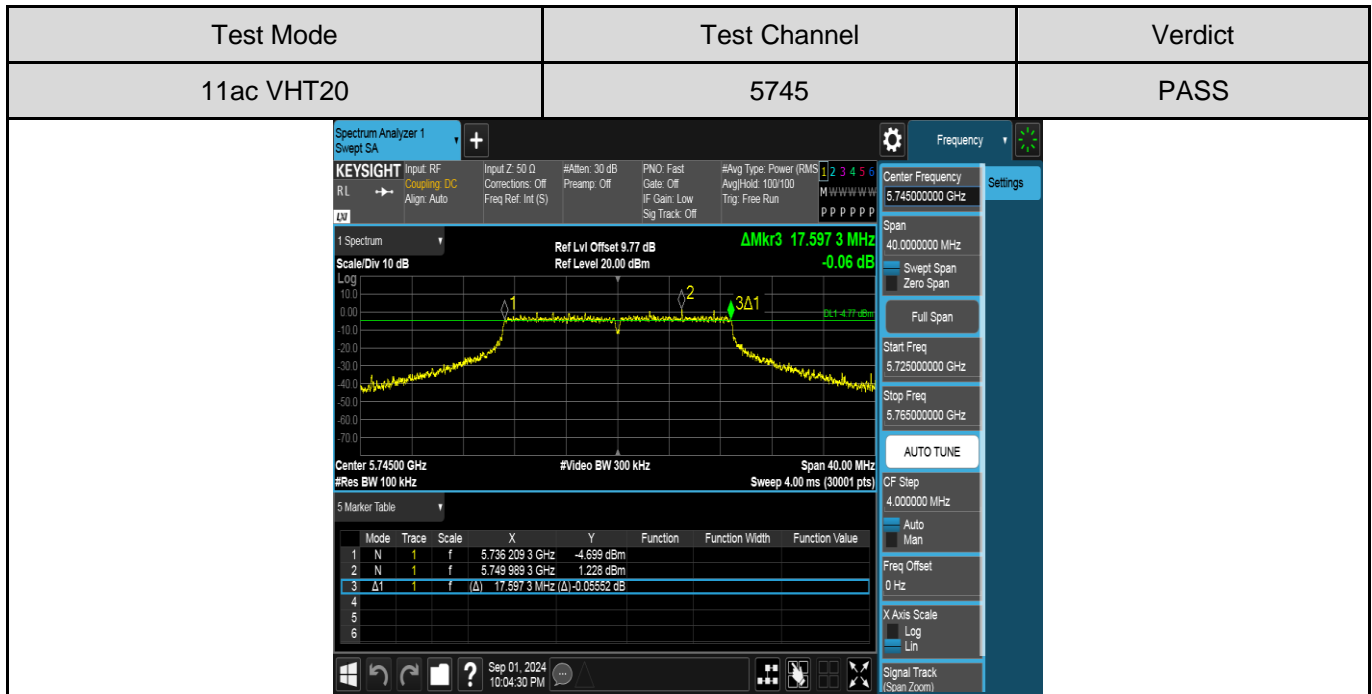
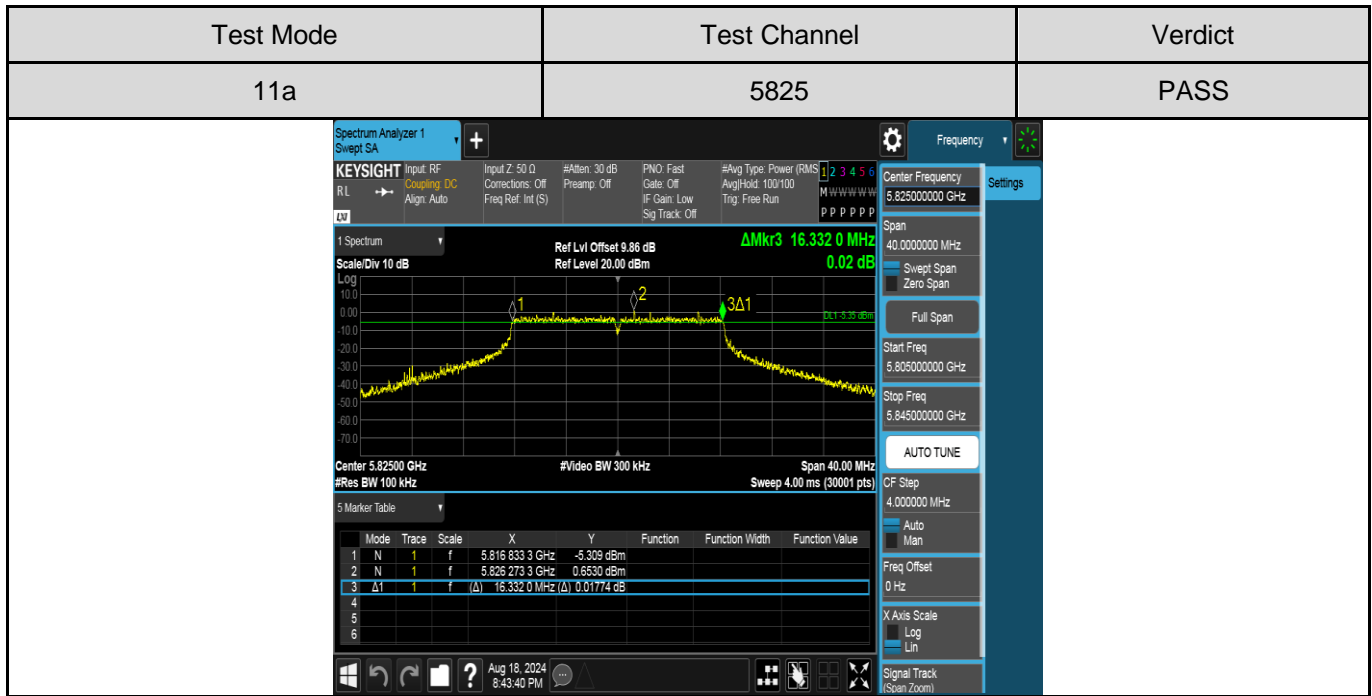
For 6 dB Emission Bandwidth Part:

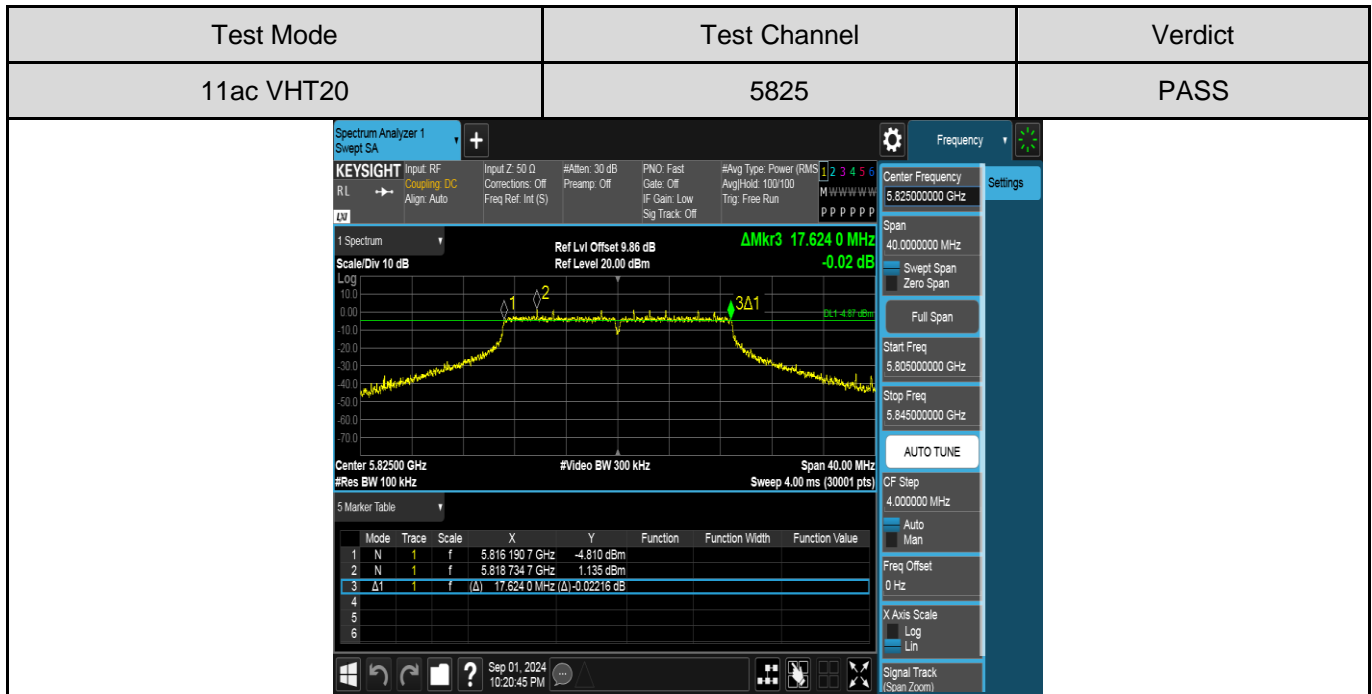
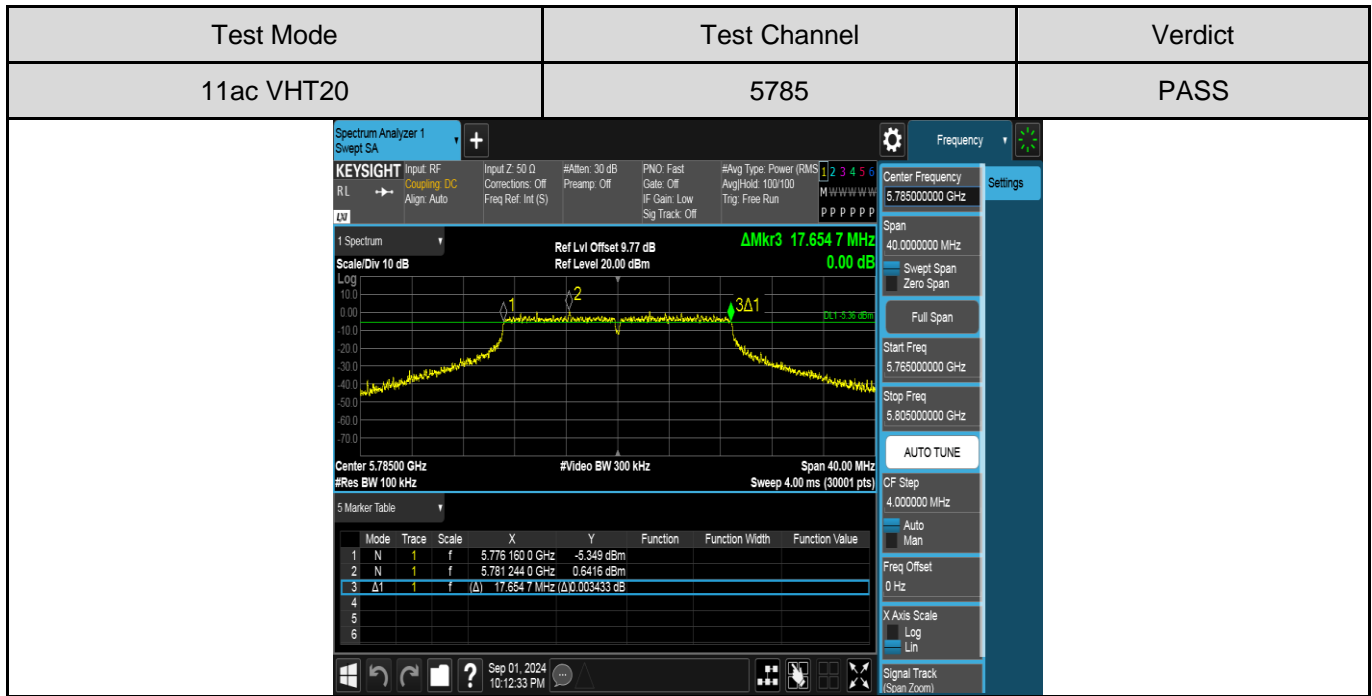
Test Mode	Test Channel	Verdict
11a	5745	PASS

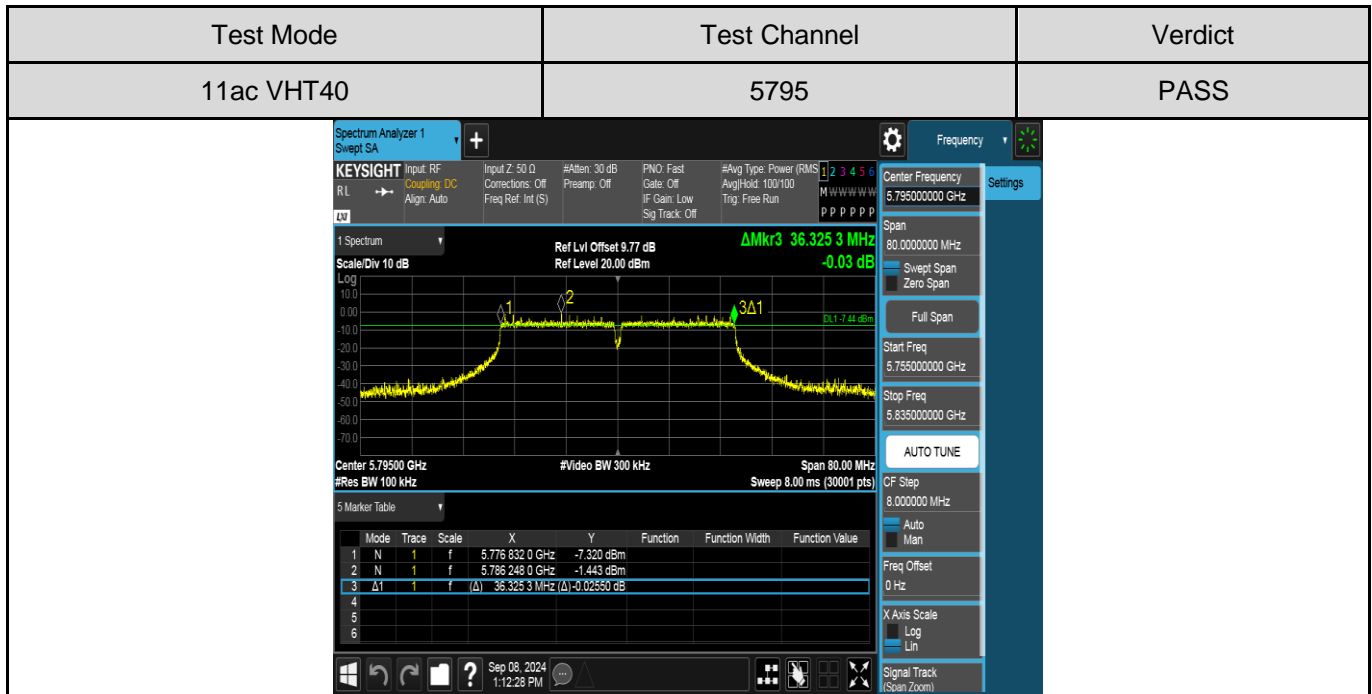
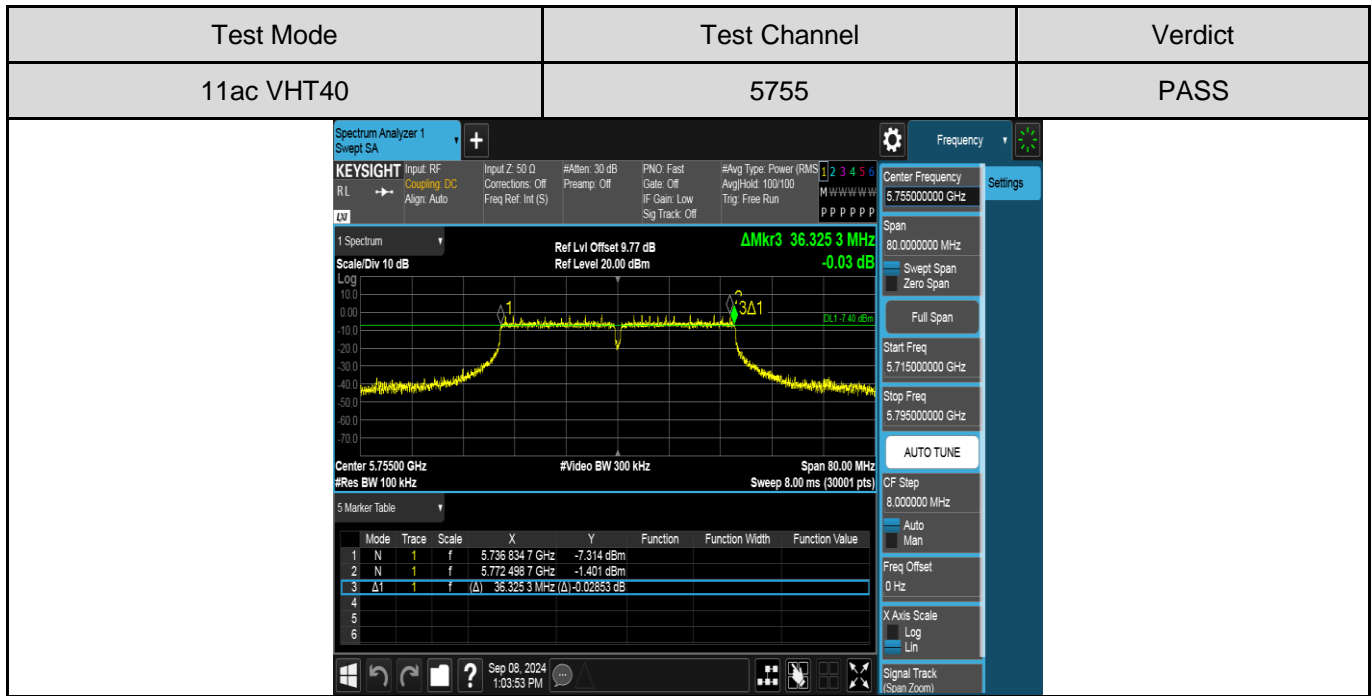


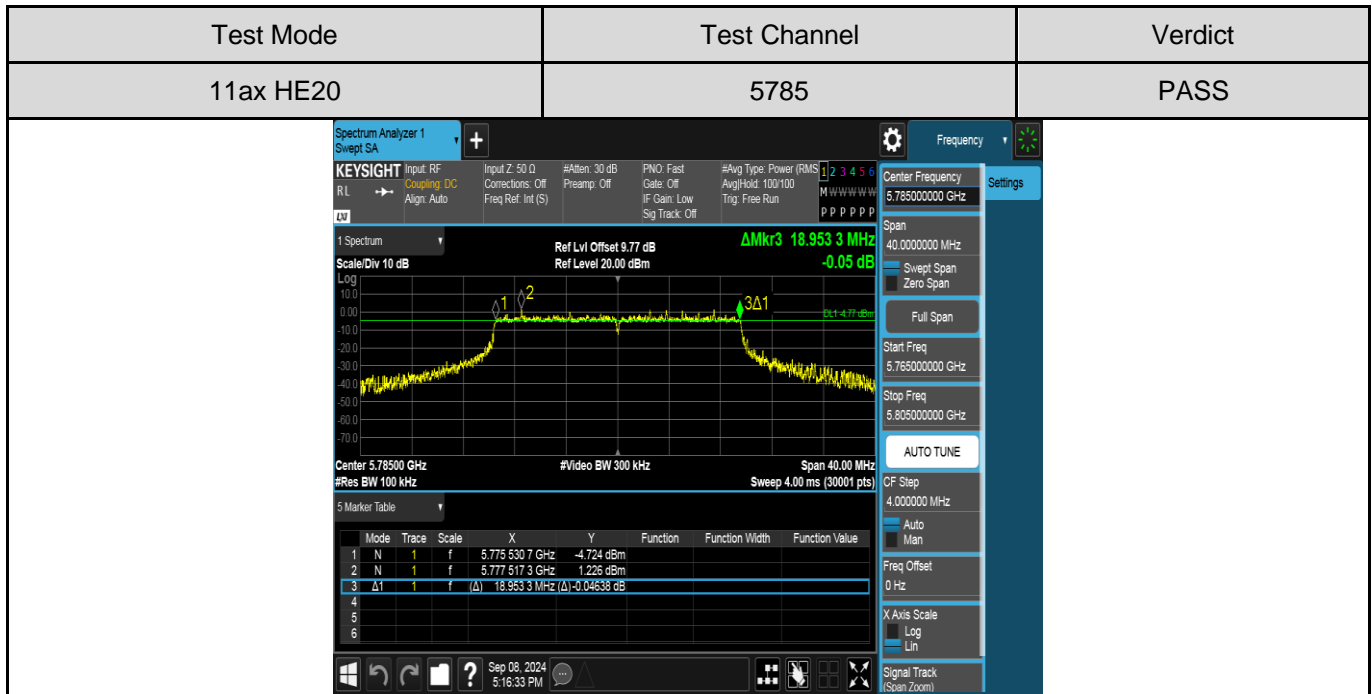
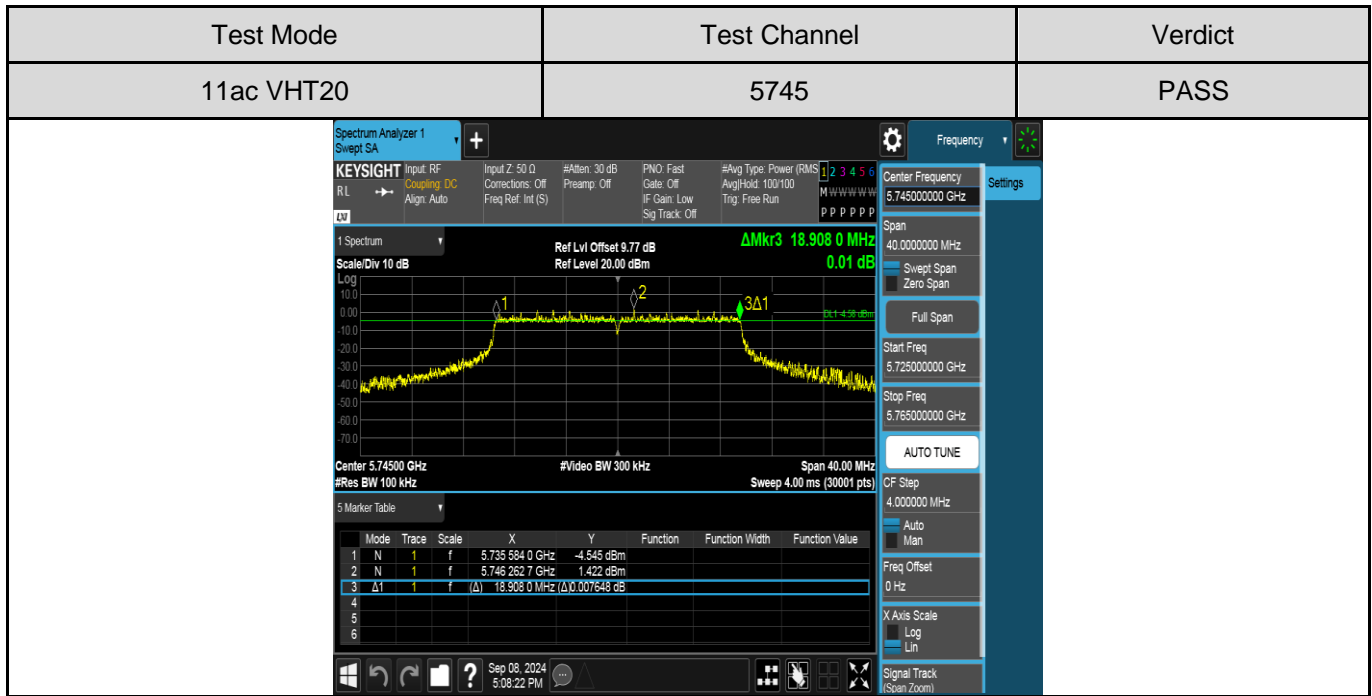
Test Mode	Test Channel	Verdict
11a	5785	PASS

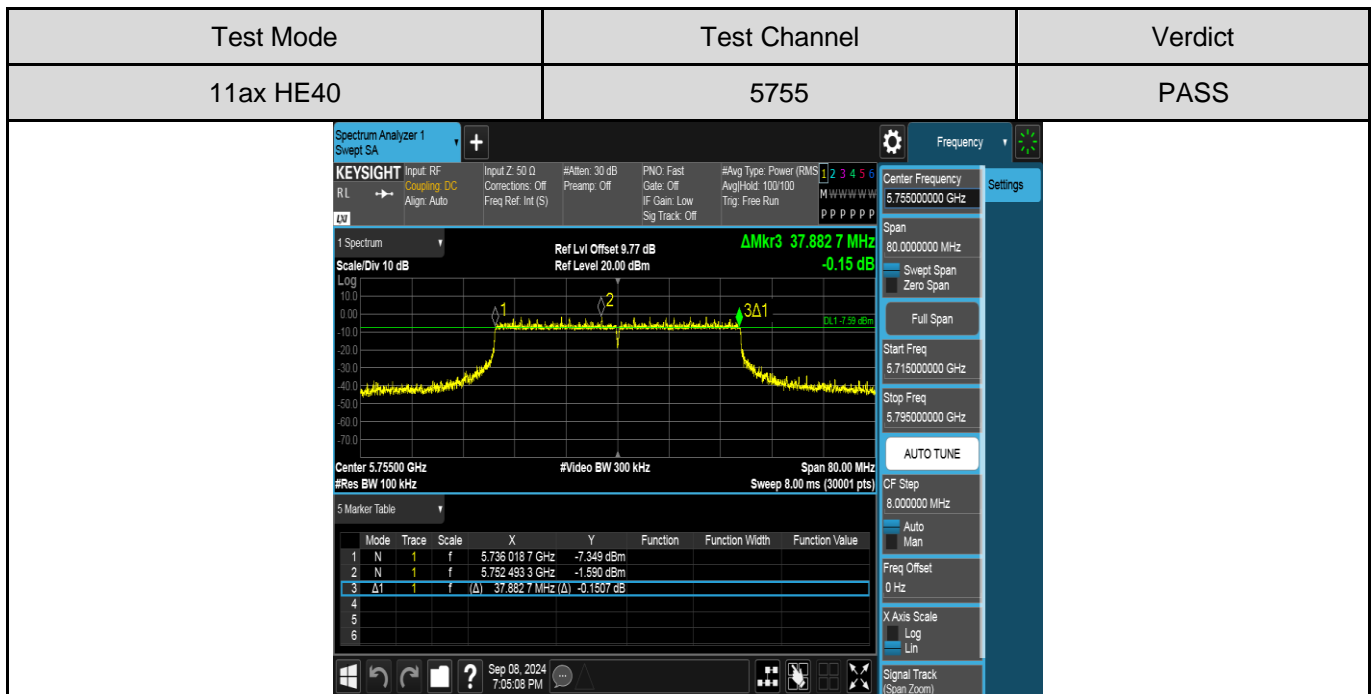
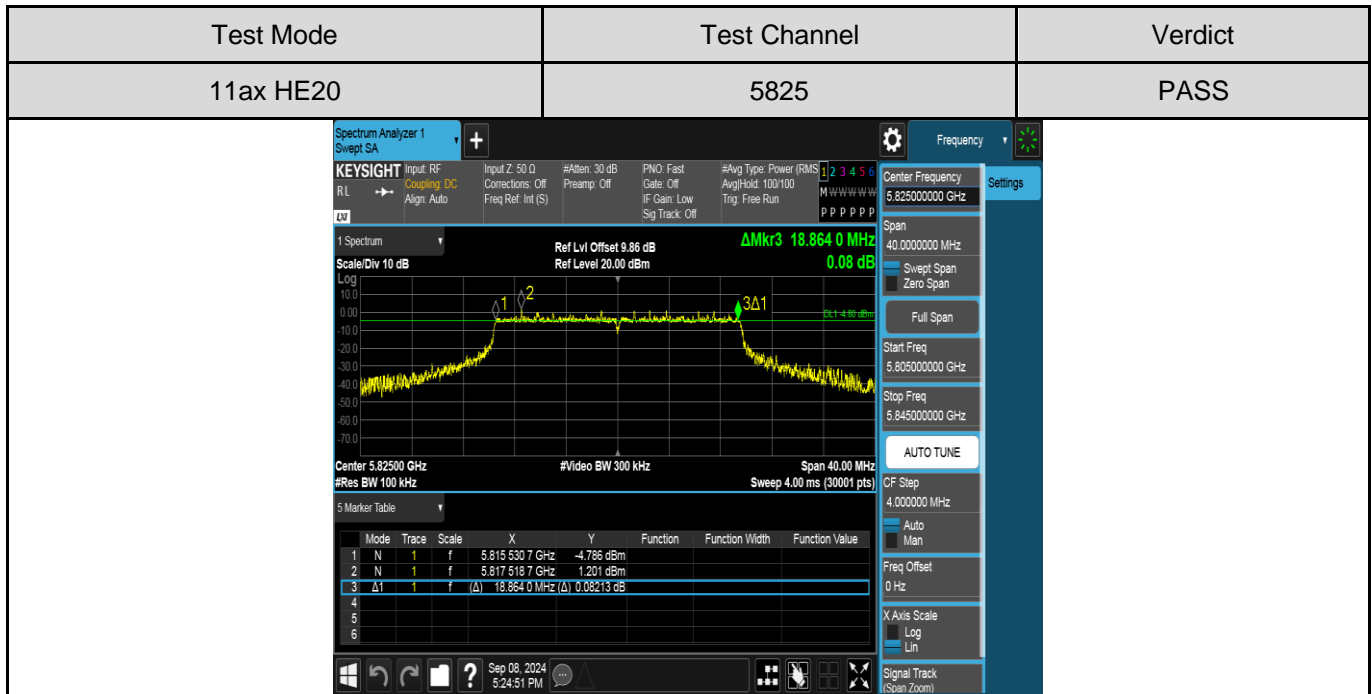


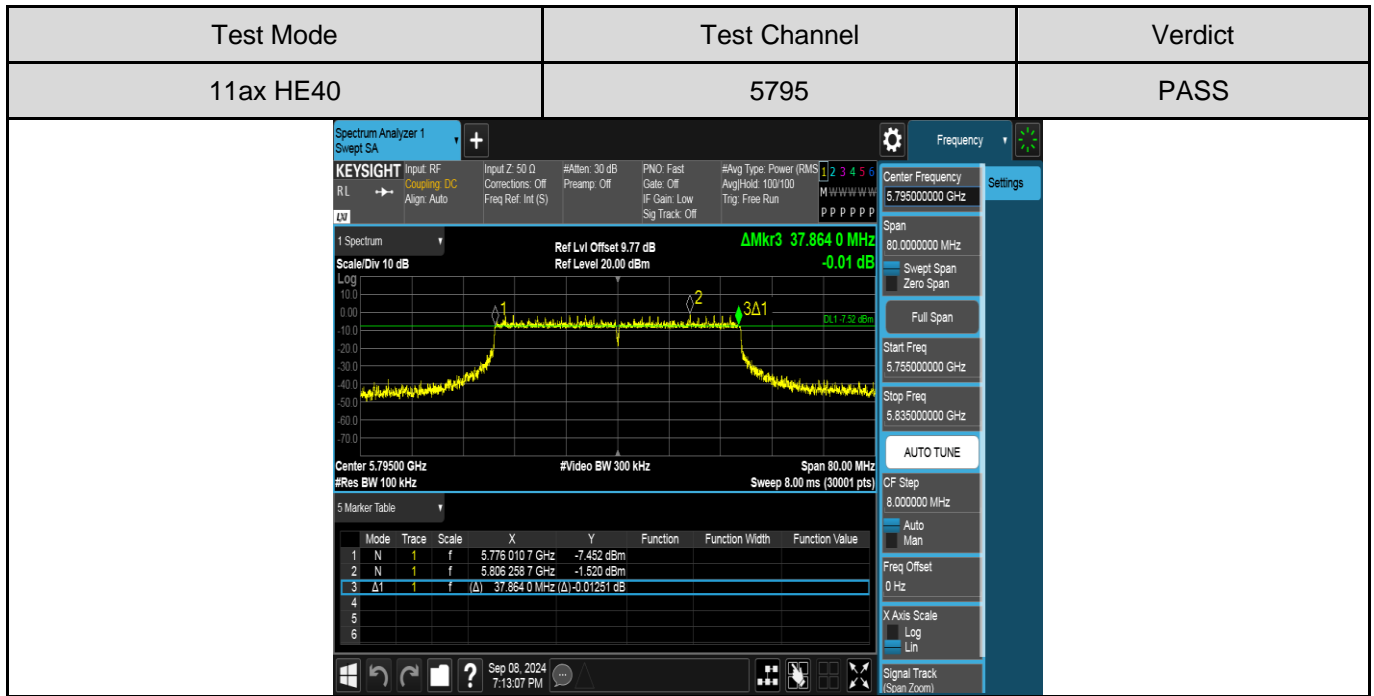












6.3. MAXIMUM CONDUCTED AVERAGE OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	<input type="checkbox"/> Outdoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Indoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Fixed Point-To-Point Access Points: 1 W (30 dBm) <input checked="" type="checkbox"/> Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

ISED RSS-247 ISSUE 3		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power or e.i.r.p.	The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or 10 + 10 log ₁₀ B, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz.	5150 ~ 5250
	a. The maximum conducted output power shall not exceed 250 mW (24 dBm) or 11 + 10 log ₁₀ B dBm, whichever is less. b. The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or 17 + 10 log ₁₀ B dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW 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.	5250 ~ 5350 5470 ~ 5600 5650 ~ 5725
	Shall not exceed 1 Watt (30 dBm). The e.i.r.p. shall not exceed 4 W	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, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

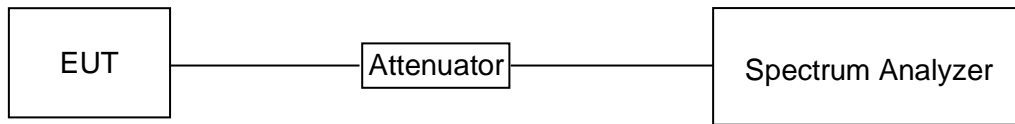
TEST PROCEDURE

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

Method AVGSA-2 (trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction):

- a) Measure the duty cycle D of the transmitter output signal as described in 11.6.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- d) Set VBW $\geq [3 \times \text{RBW}]$.
- e) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- f) Sweep time = auto.
- g) Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode.
- h) Do not use sweep triggering. Allow the sweep to “free run.”
- i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- j) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- k) Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.

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	08/18/2024 - 09/08/2024

TEST RESULT TABLE

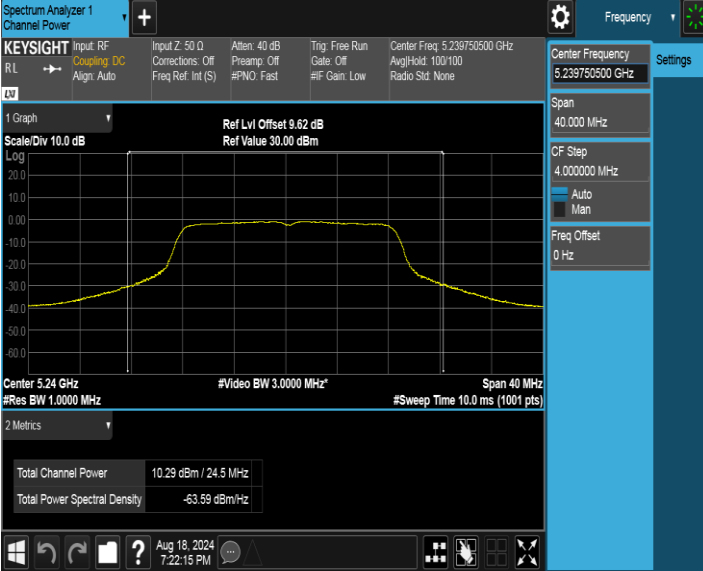
Mode	Frequency	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dBi	dBm	dBm
11a	5180	10.32	0.34	10.66	24.00	/	3.40	14.06	22.39
	5200	9.91	0.34	10.25	24.00	/	3.40	13.65	22.40
	5240	10.29	0.34	10.63	24.00	/	3.40	14.03	22.42
	5260	10.51	0.34	10.85	24.00	23.39	3.40	14.25	29.39
	5280	10.77	0.34	11.11	24.00	23.40	3.40	14.51	29.40
	5320	11.12	0.34	11.46	24.00	23.38	3.40	14.86	29.38
	5500	12.61	0.34	12.95	24.00	23.45	3.40	16.35	29.45
	5580	11.15	0.34	11.49	24.00	23.46	3.40	14.89	29.46
	5700	12.40	0.34	12.74	24.00	23.43	3.40	16.14	29.43
	5720_ UNII-2C	10.92	0.34	11.26	23.62	22.40	3.40	14.66	28.40
	5720_ UNII-3	4.84	0.34	5.18	30.00	/	3.40	8.58	36.00
	5745	11.92	0.34	12.26	30.00	/	3.40	15.66	36.00
	5785	11.60	0.34	11.94	30.00	/	3.40	15.34	36.00
	5825	11.51	0.34	11.85	30.00	/	3.40	15.25	36.00

Mode	Frequency	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT20	5180	10.02	0.23	10.25	24.00	/	3.40	13.65	22.67
	5200	9.78	0.23	10.01	24.00	/	3.40	13.41	22.66
	5240	10.36	0.23	10.59	24.00	/	3.40	13.99	22.67
	5260	10.72	0.23	10.95	24.00	23.66	3.40	14.35	29.66
	5280	10.97	0.23	11.20	24.00	23.66	3.40	14.60	29.66
	5320	10.67	0.23	10.90	24.00	23.67	3.40	14.30	29.67
	5500	12.02	0.23	12.25	24.00	23.72	3.40	15.65	29.72
	5580	11.79	0.23	12.02	24.00	23.70	3.40	15.42	29.70
	5700	12.93	0.23	13.16	24.00	23.71	3.40	16.56	29.71
	5720_ UNII-2C	11.24	0.23	11.47	23.53	22.57	3.40	14.87	28.57
	5720_ UNII-3	5.77	0.23	6.00	30.00	/	3.40	9.40	36.00
	5745	12.09	0.23	12.32	30.00	/	3.40	15.72	36.00
	5785	12.06	0.23	12.29	30.00	/	3.40	15.69	36.00
	5825	11.99	0.23	12.22	30.00	/	3.40	15.62	36.00

Mode	Frequency	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dB	dBm	dBm
11ac VHT40	5190	9.89	0.45	10.34	24.00	24.00	3.40	13.74	23.00
	5230	9.51	0.45	9.96	24.00	24.00	3.40	13.36	23.00
	5270	10.77	0.45	11.22	24.00	24.00	3.40	14.62	30.00
	5310	10.98	0.45	11.43	24.00	24.00	3.40	14.83	30.00
	5510	12.05	0.45	12.50	24.00	24.00	3.40	15.90	30.00
	5550	12.55	0.45	13.00	24.00	24.00	3.40	16.40	30.00
	5670	12.51	0.45	12.96	24.00	24.00	3.40	16.36	30.00
	5710_ UNII-2C	11.89	0.45	12.34	24.00	24.00	3.40	15.74	30.00
	5710_ UNII-3	1.62	0.45	2.07	30.00	/	3.40	5.47	36.00
	5755	11.91	0.45	12.36	30.00	/	3.40	15.76	36.00
	5795	11.14	0.45	11.59	30.00	/	3.40	14.99	36.00

Mode	Frequency	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dBi	dBm	dBm
11ax HE20	5180	10.36	0.29	10.65	24.00	/	3.40	14.05	22.87
	5200	10.49	0.29	10.78	24.00	/	3.40	14.18	22.87
	5240	10.56	0.29	10.85	24.00	/	3.40	14.25	22.87
	5260	10.85	0.29	11.14	24.00	23.87	3.40	14.54	29.87
	5280	10.99	0.29	11.28	24.00	23.87	3.40	14.68	29.87
	5320	11.33	0.29	11.62	24.00	23.86	3.40	15.02	29.86
	5500	13.00	0.29	13.29	24.00	23.88	3.40	16.69	29.88
	5580	11.90	0.29	12.19	24.00	23.90	3.40	15.59	29.90
	5700	12.90	0.09	12.99	24.00	23.88	3.40	16.39	29.88
	5720_ UNII-2C	11.17	0.29	11.46	23.44	22.67	3.40	14.86	28.67
	5720_ UNII-3	6.28	0.29	6.57	30.00	/	3.40	9.97	36.00
	5745	12.10	0.29	12.39	30.00	/	3.40	15.79	36.00
	5785	12.00	0.29	12.29	30.00	/	3.40	15.69	36.00
	5825	12.01	0.29	12.30	30.00	/	3.40	15.70	36.00

Mode	Frequency	Measurement Output Power	Duty Cycle Correction Factor	Average Conducted Output Power	FCC Power Limit	ISED Power Limit	Antenna Gain	EIRP	ISED EIRP Limit
	MHz	dBm	dB	dBm	dBm	dBm	dBi	dBm	dBm
11ax HE40	5190	10.27	0.54	10.81	24.00	24.00	3.40	14.21	23.00
	5230	10.35	0.54	10.89	24.00	24.00	3.40	14.29	23.00
	5270	10.78	0.54	11.32	24.00	24.00	3.40	14.72	30.00
	5310	10.97	0.54	11.51	24.00	24.00	3.40	14.91	30.00
	5510	11.32	0.54	11.86	24.00	24.00	3.40	15.26	30.00
	5550	12.31	0.54	12.85	24.00	24.00	3.40	16.25	30.00
	5670	12.12	0.54	12.66	24.00	24.00	3.40	16.06	30.00
	5710_ UNII-2C	10.42	0.54	10.96	24.00	24.00	3.40	14.36	30.00
	5710_ UNII-3	2.27	0.54	2.81	30.00	/	3.40	6.21	36.00
	5755	11.64	0.54	12.18	30.00	/	3.40	15.58	36.00
	5795	11.01	0.54	11.55	30.00	/	3.40	14.95	36.00

Test Mode	Test Channel	Verdict
11a	5240	PASS
		

Test Mode	Test Channel	Verdict
11a	5260	PASS
