

9.1.5.6 Chain B 802.11ac VHT20 26-dB Emission Bandwidth

Chain B 802.11ac VHT20 26-dB Emission Bandwidth		
Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)
36	5180	20.08
44	5220	20.01
48	5240	19.80
52	5260	20.15
60	5300	20.08
64	5320	19.94
100	5500	19.98
116	5580	20.15
140	5700	20.10
144	5720	20.09
149	5745	19.95
157	5785	20.00
165	5825	20.06

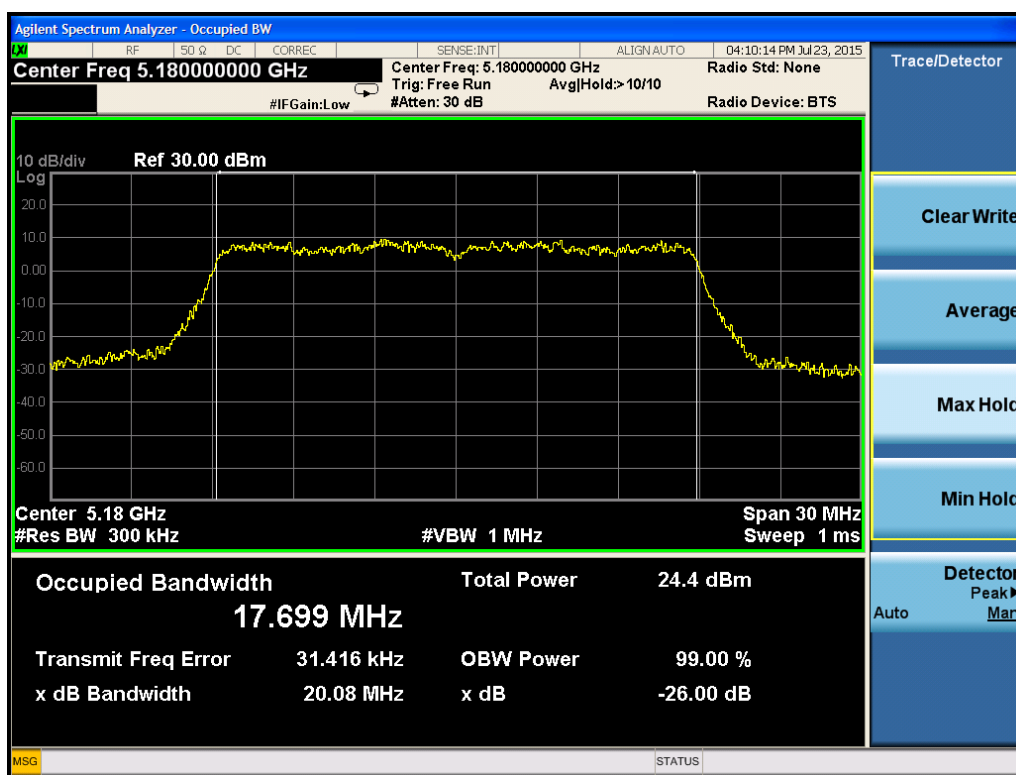


Figure 9-66. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 36)

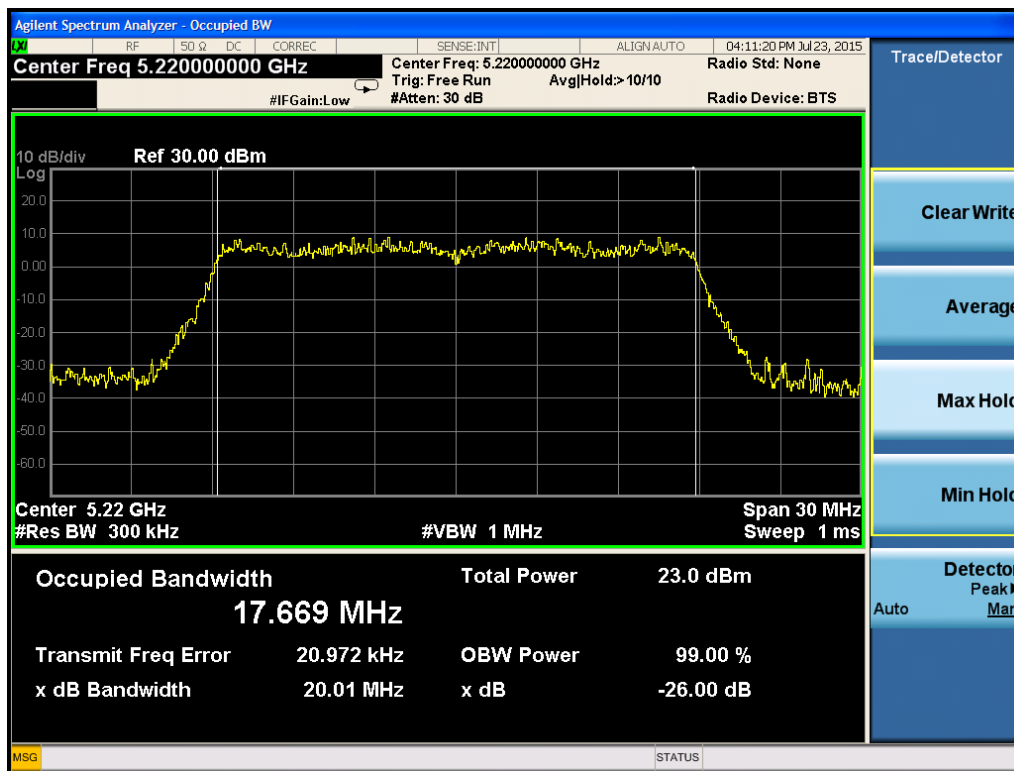


Figure 9-67. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 44)

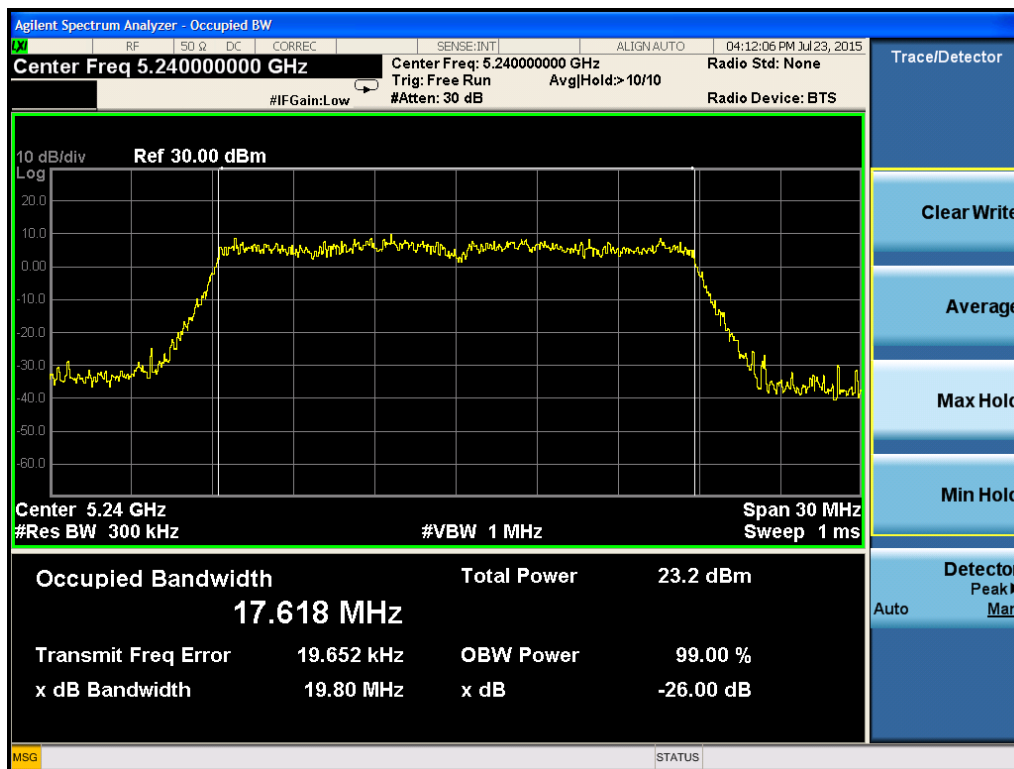


Figure 9-68. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 48)

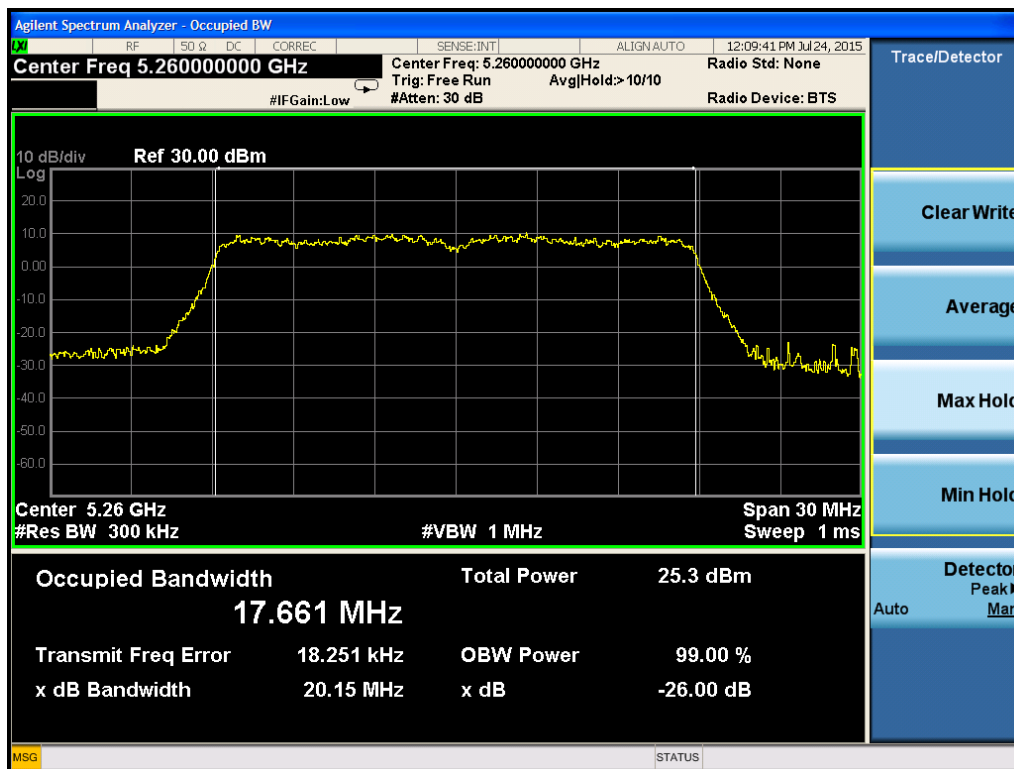


Figure 9-69. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 52)

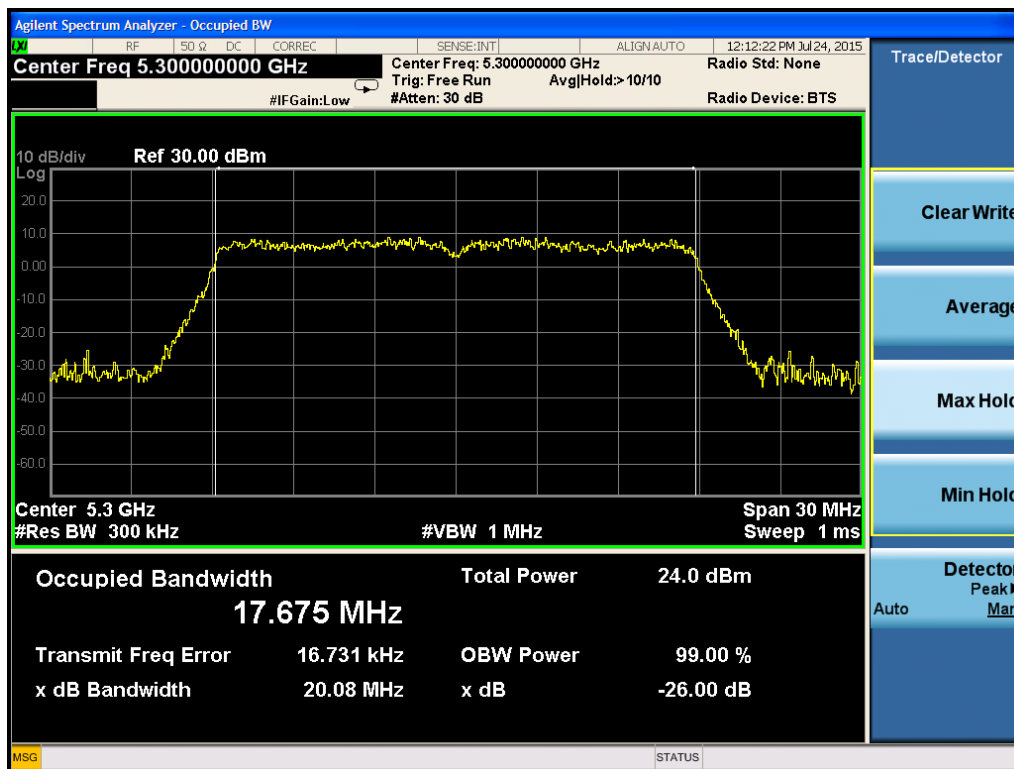


Figure 9-70. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 60)

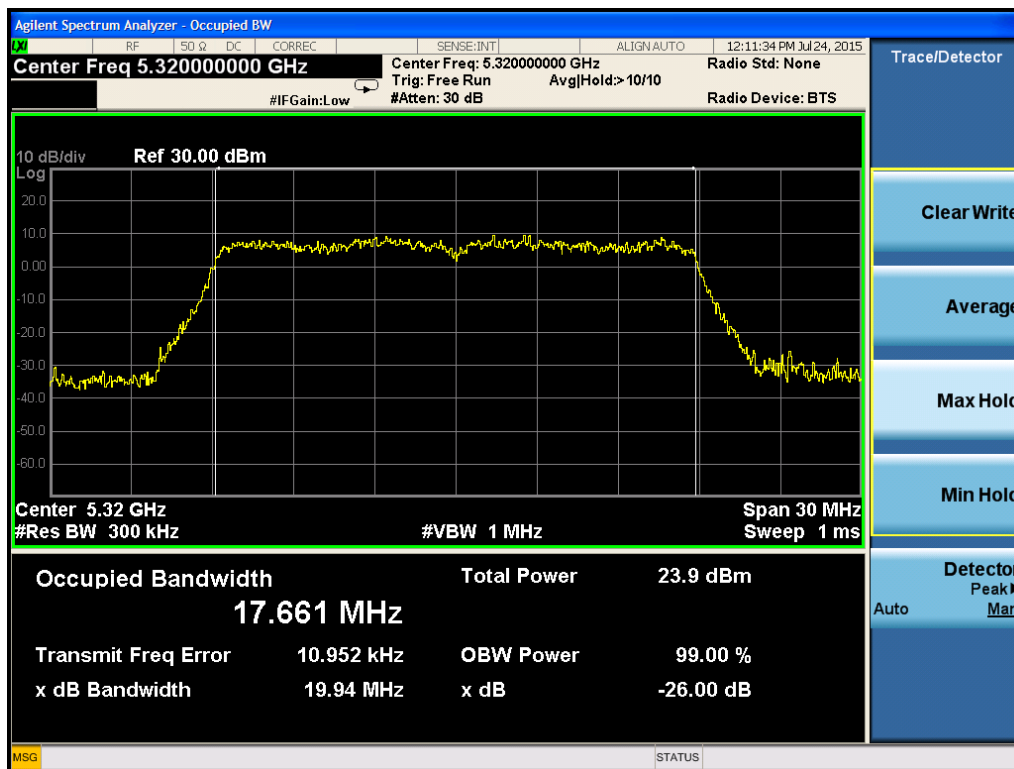


Figure 9-71. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 64)

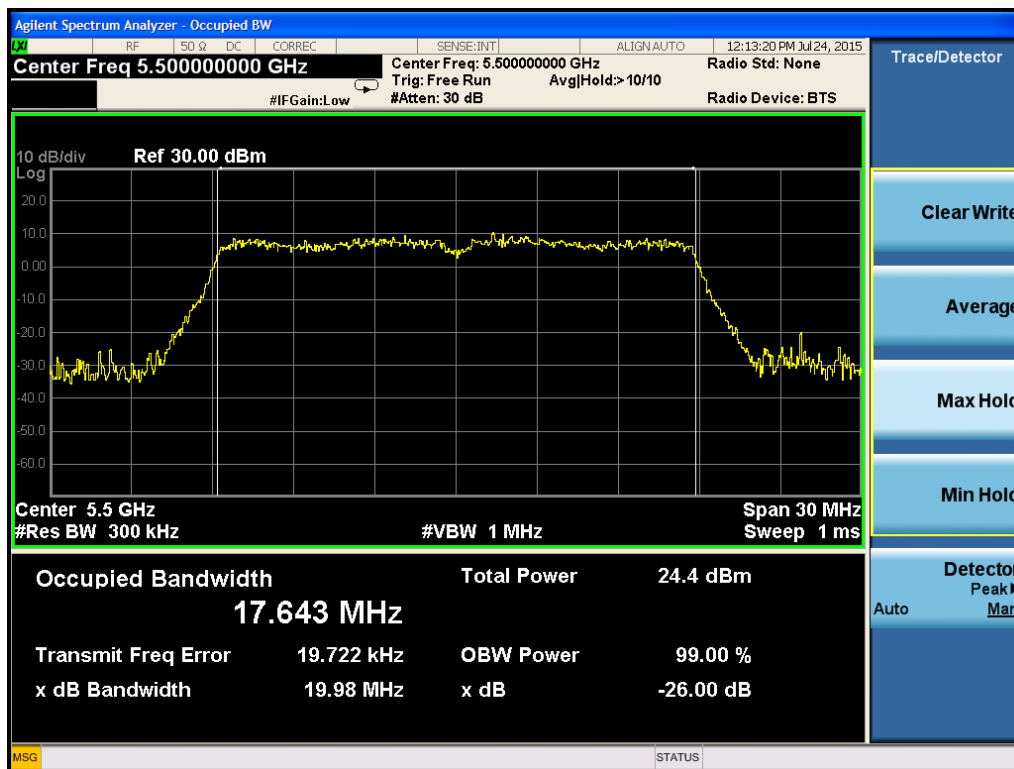


Figure 9-72. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 100)

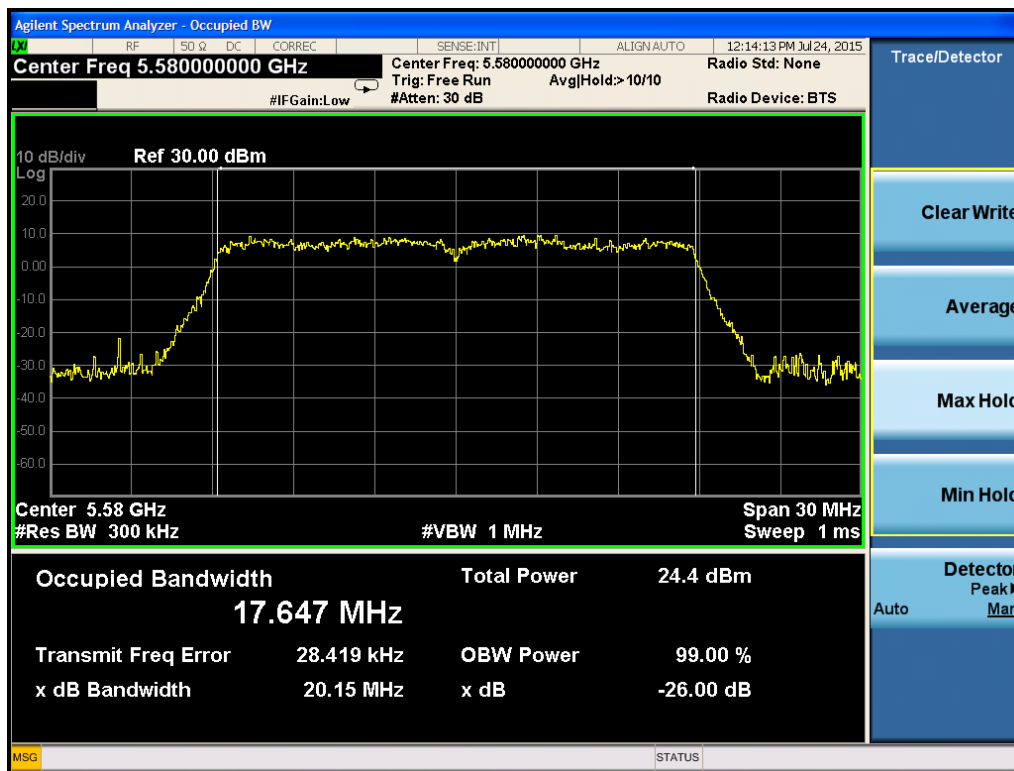


Figure 9-73. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 116)

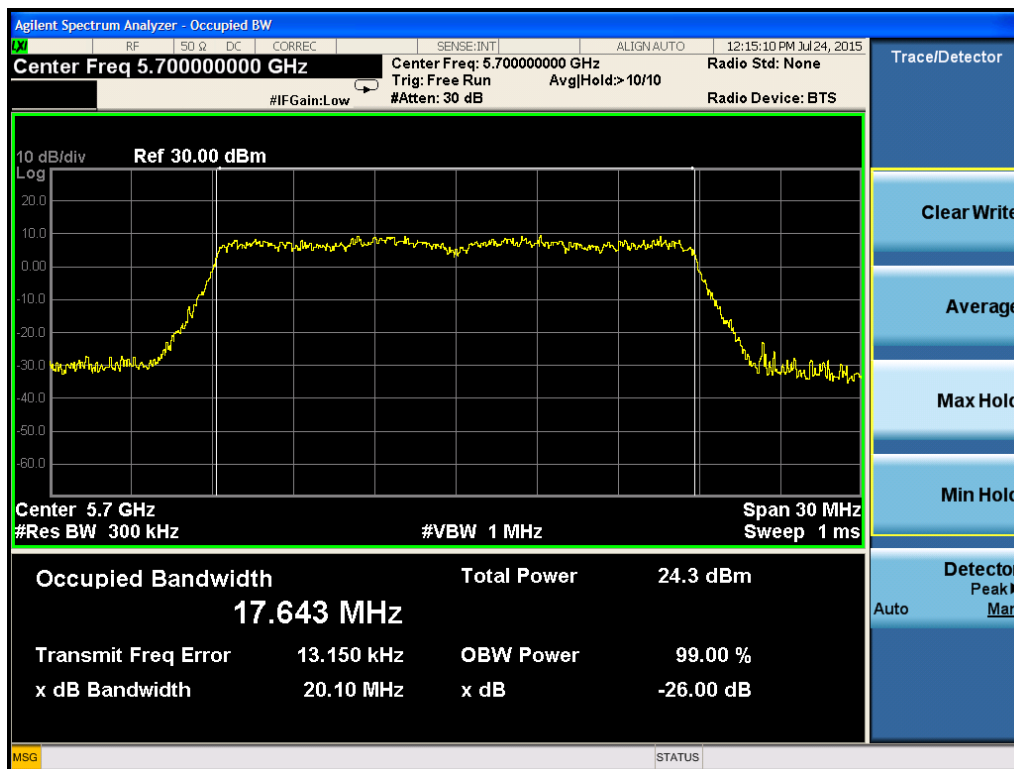


Figure 9-74. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 140)

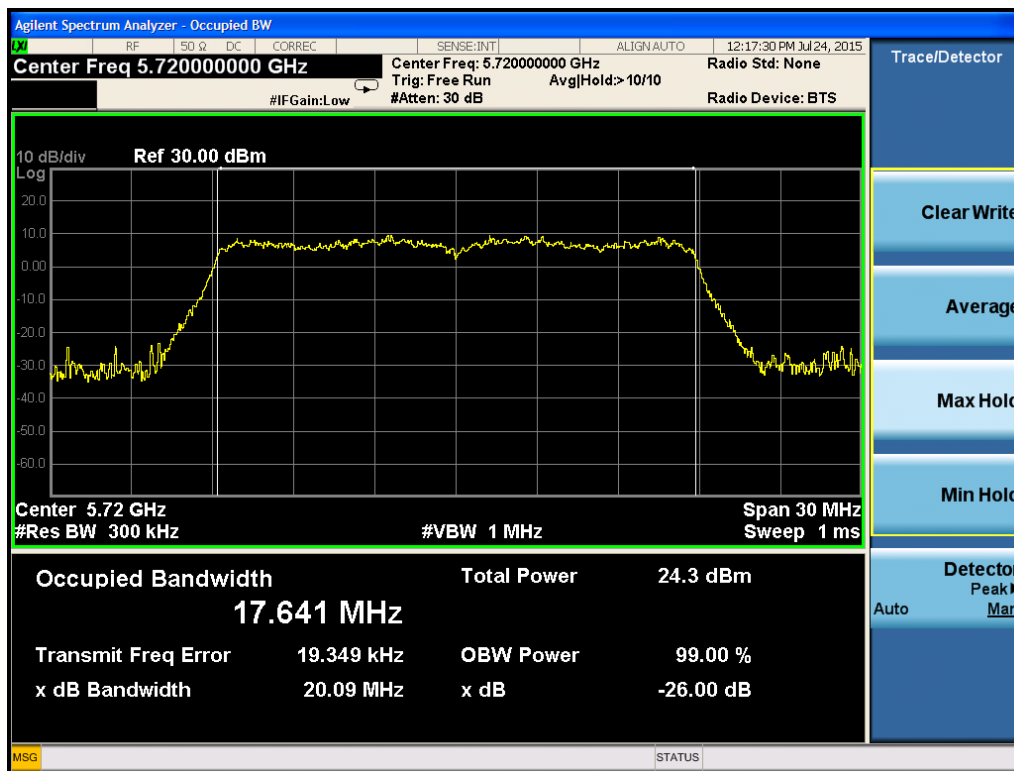


Figure 9-75. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 144)

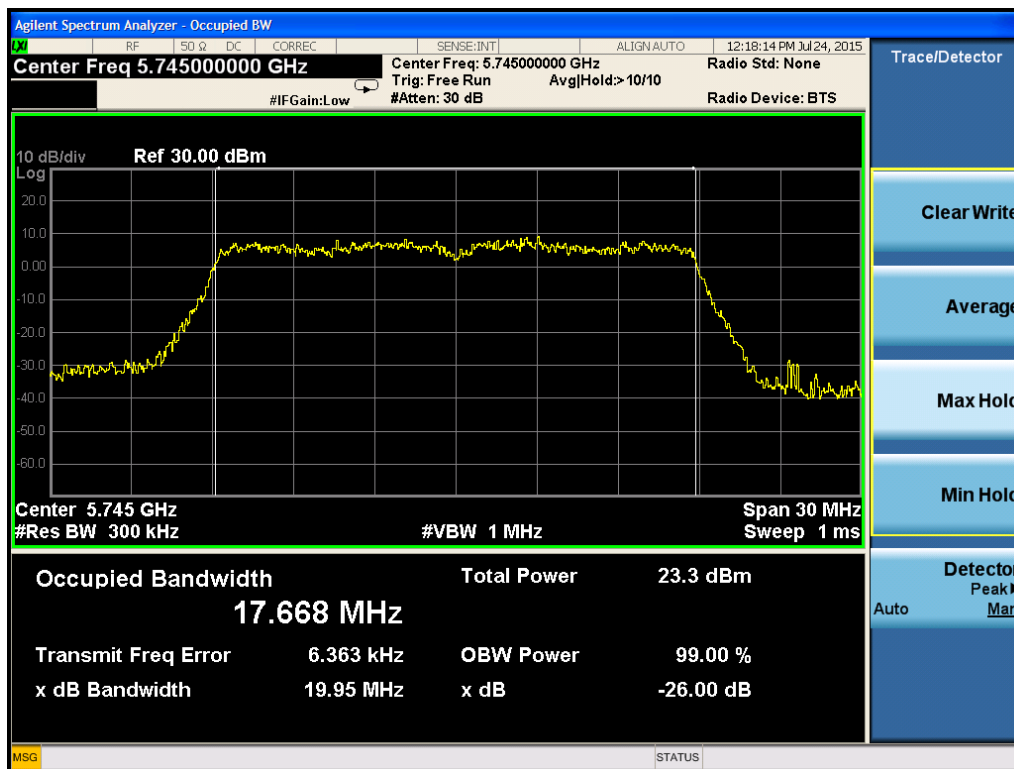


Figure 9-76. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 149)

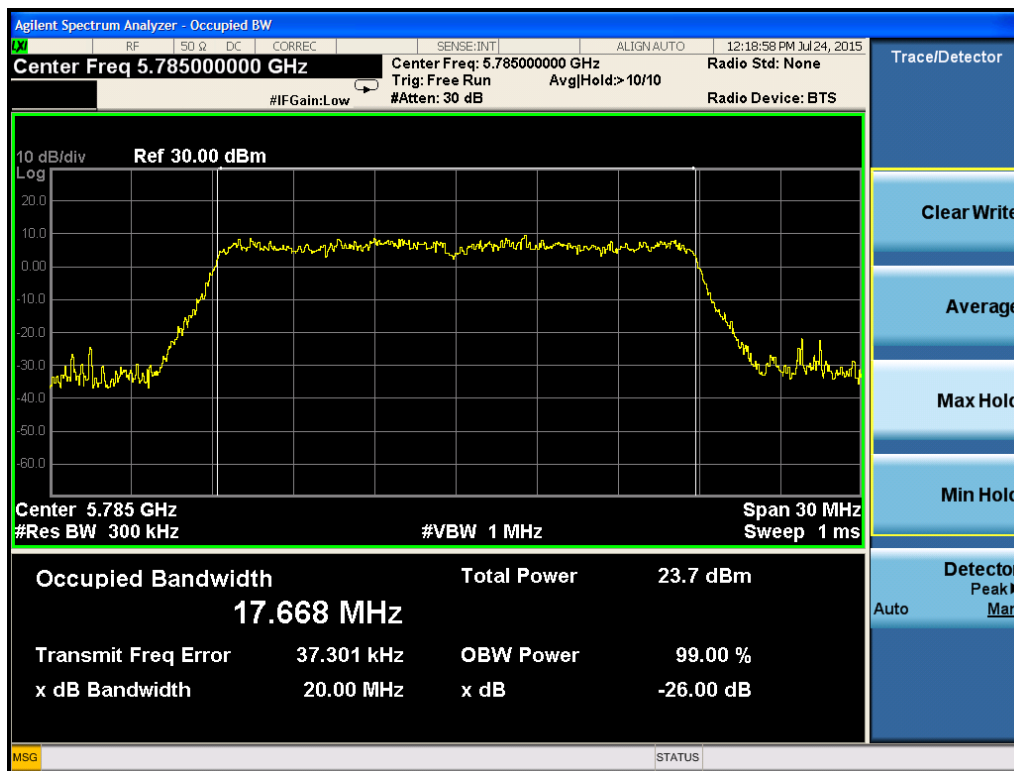


Figure 9-77. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 157)

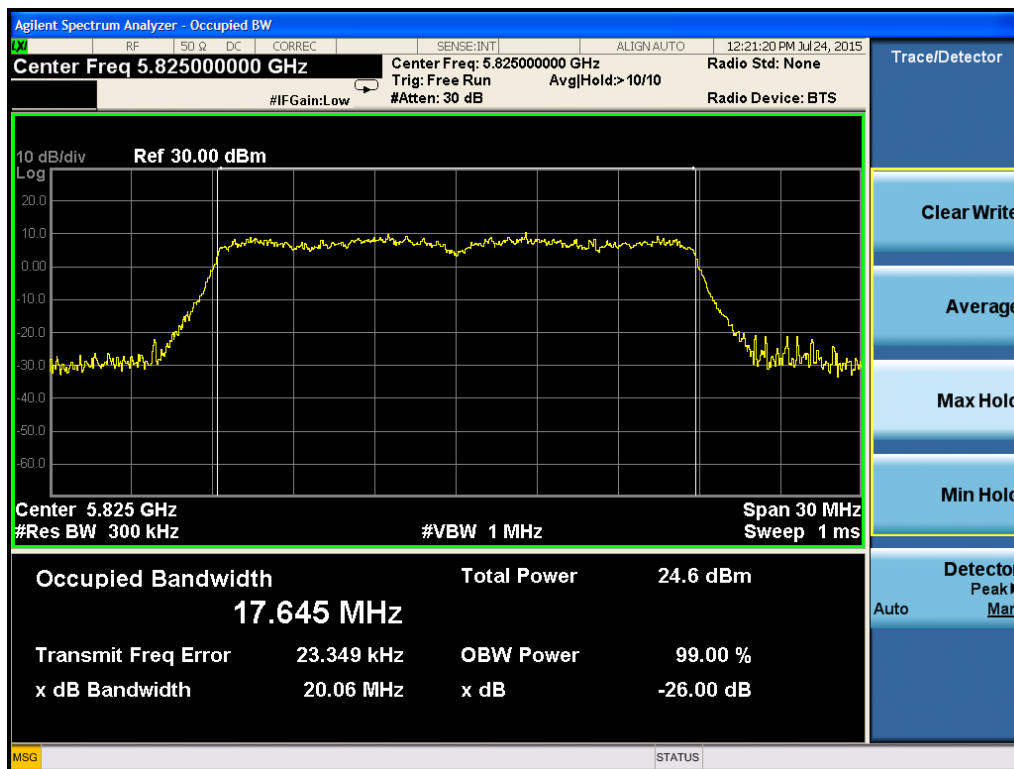


Figure 9-78. 26-dB Emission Bandwidth Chain B 802.11ac VHT20 (Ch. 165)

9.1.5.7 Chain A 802.11n HT40 26-dB Emission Bandwidth

Chain A 802.11n HT40 26-dB Emission Bandwidth		
Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)
38	5190	40.60
46	5230	40.06
54	5270	39.90
62	5310	40.08
102	5510	40.53
110	5550	40.27
134	5670	40.71
142	5710	40.00
151	5755	40.13
159	5795	40.33

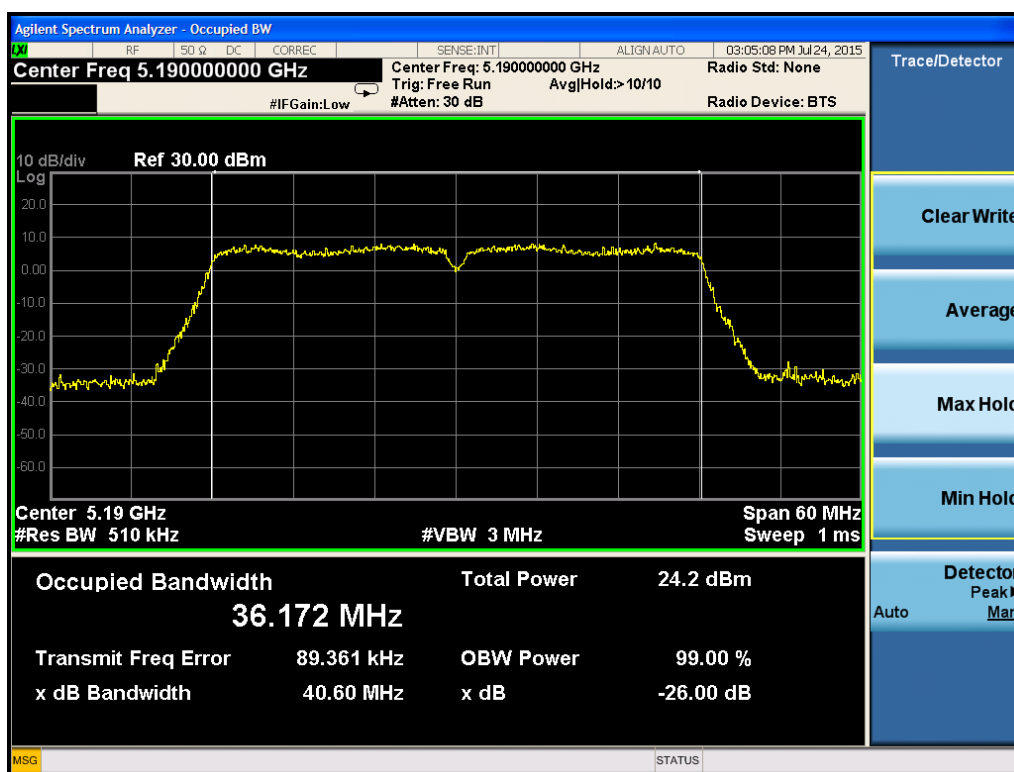


Figure 9-79. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 38)

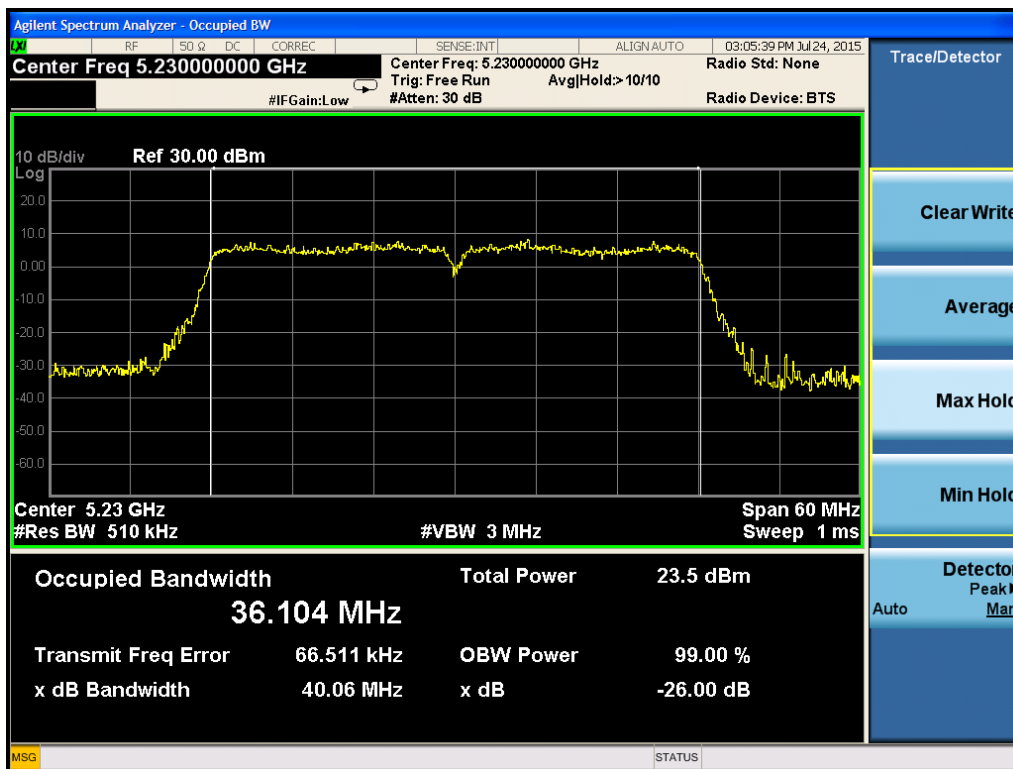


Figure 9-80. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 46)

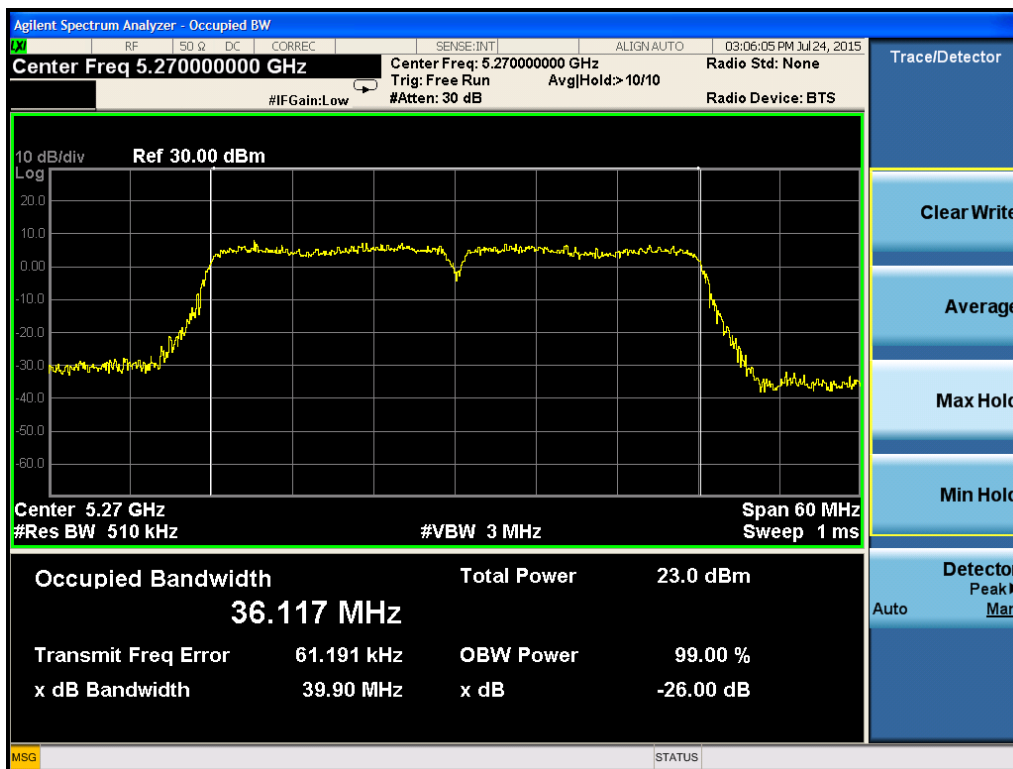


Figure 9-81. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 54)

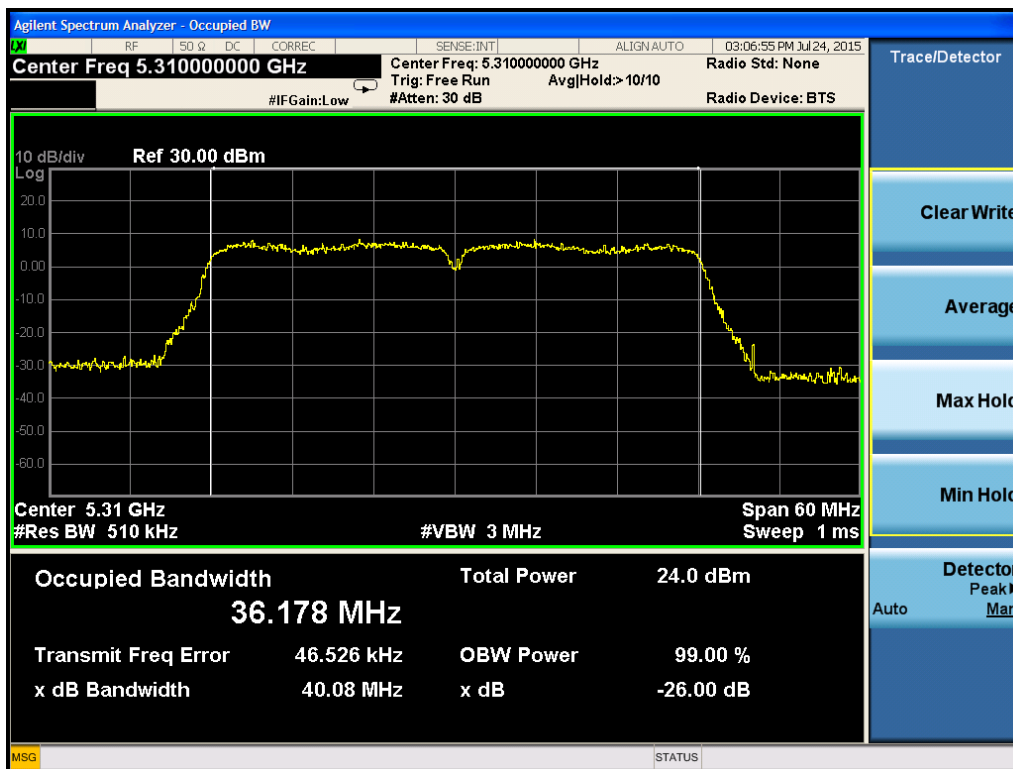


Figure 9-82. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 62)

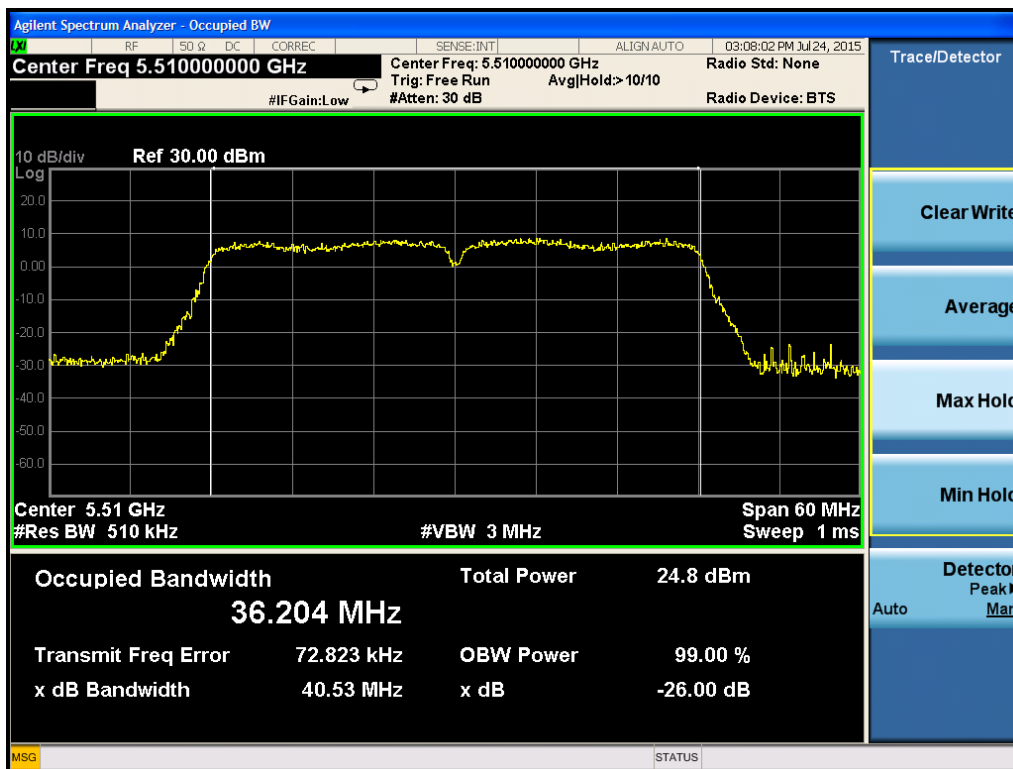


Figure 9-83. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 102)

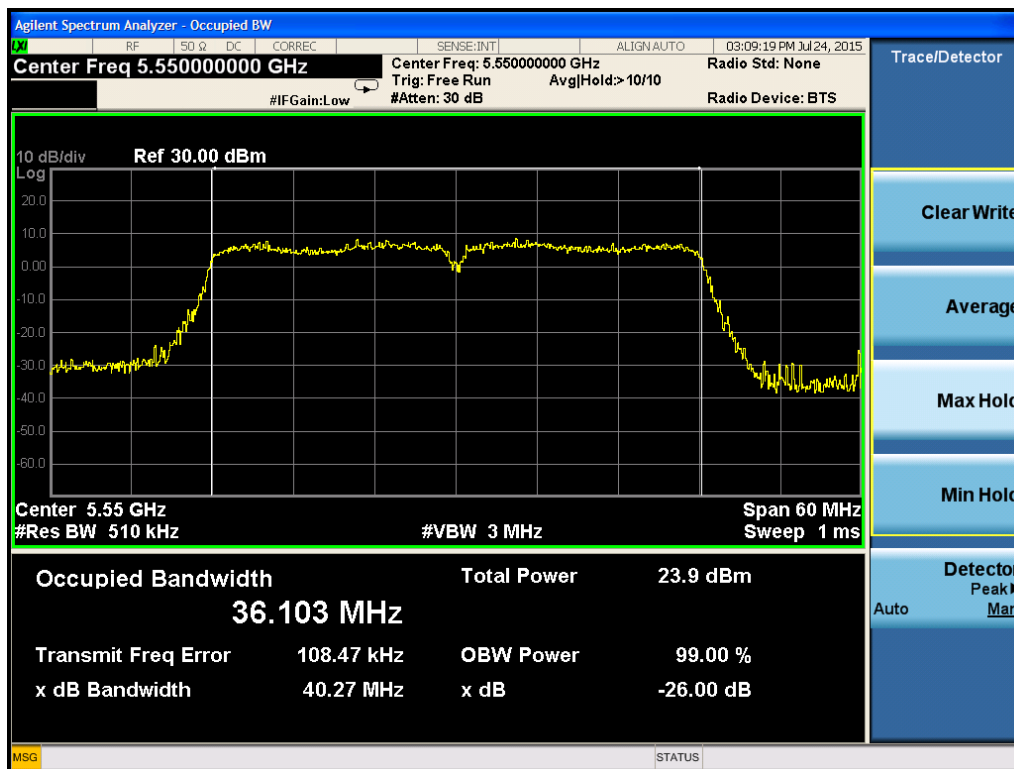


Figure 9-84. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 110)

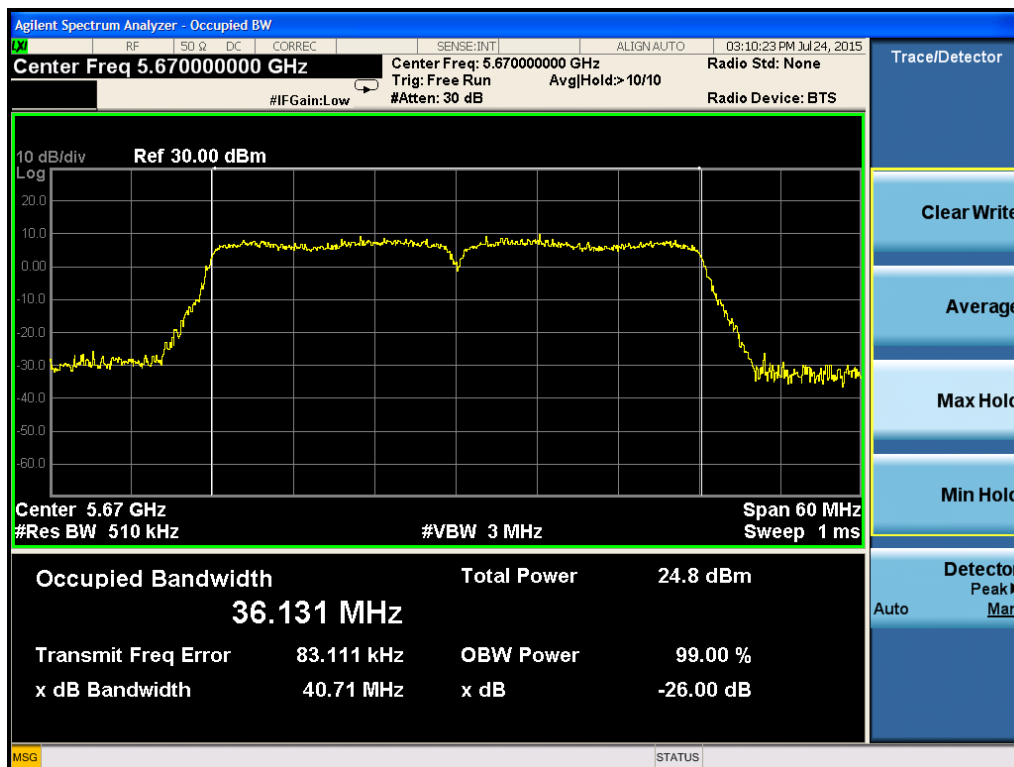


Figure 9-85. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 134)

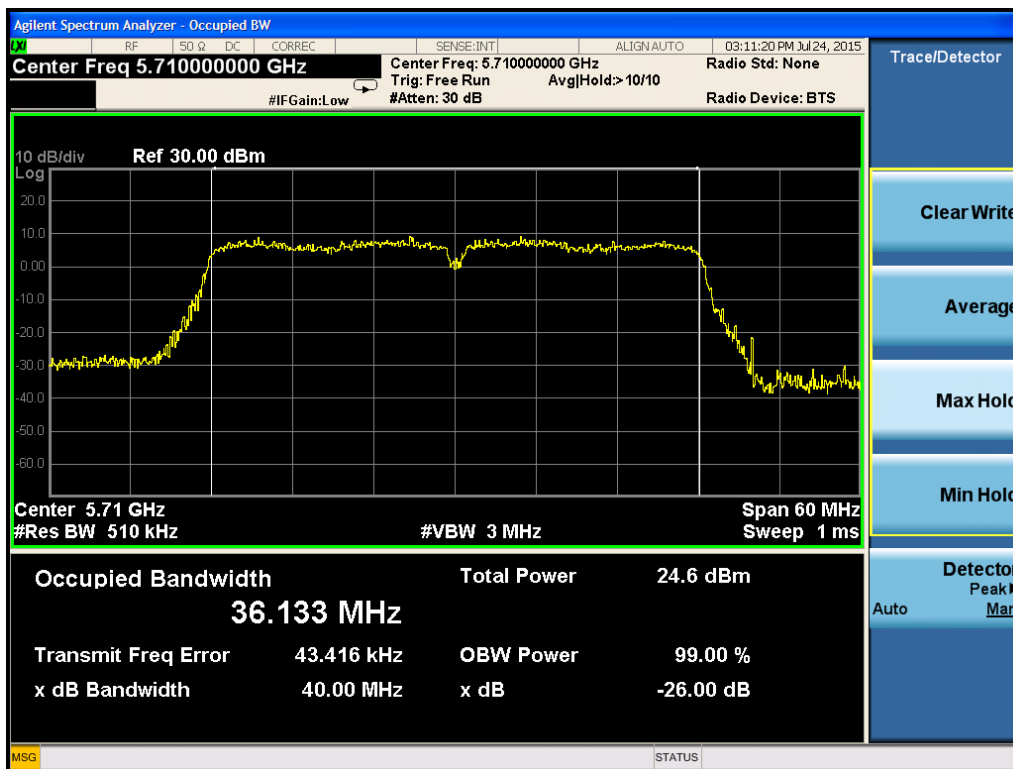


Figure 9-86. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 142)

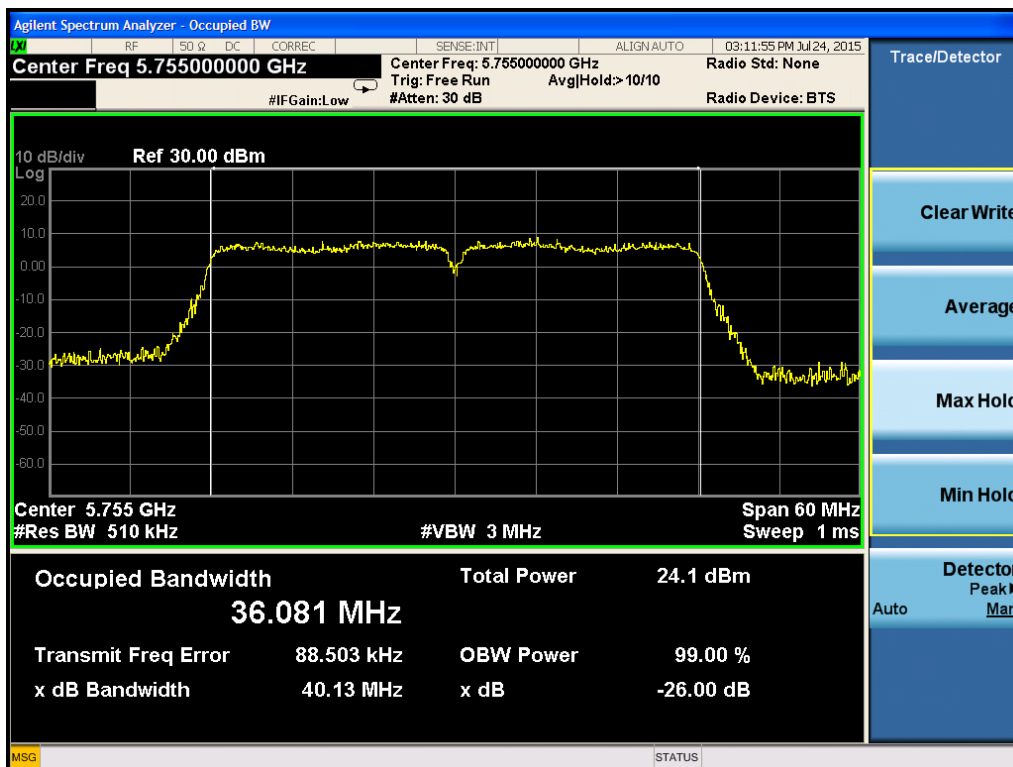


Figure 9-87. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 151)

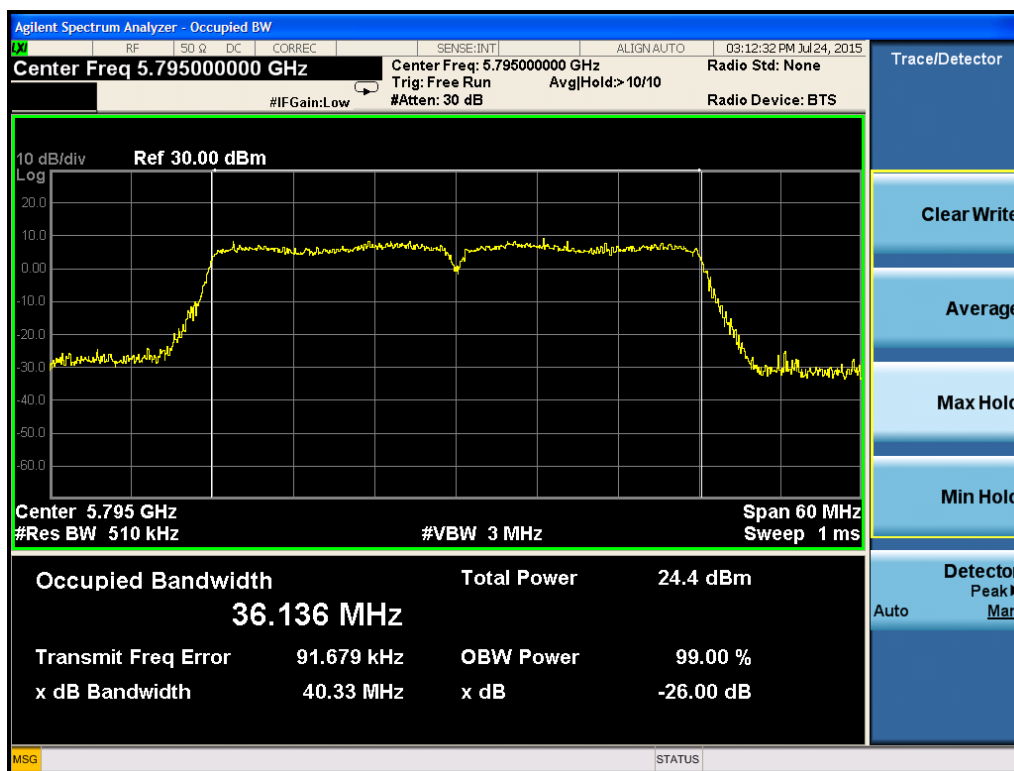


Figure 9-88. 26-dB Emission Bandwidth Chain A 802.11n HT40 (Ch. 159)

9.1.5.8 Chain B 802.11n HT40 26-dB Emission Bandwidth

Chain B 802.11n HT40 26-dB Emission Bandwidth		
Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)
38	5190	40.21
46	5230	40.01
54	5270	39.86
62	5310	39.81
102	5510	40.34
110	5550	40.20
134	5670	40.17
142	5710	39.74
151	5755	39.97
159	5795	39.96

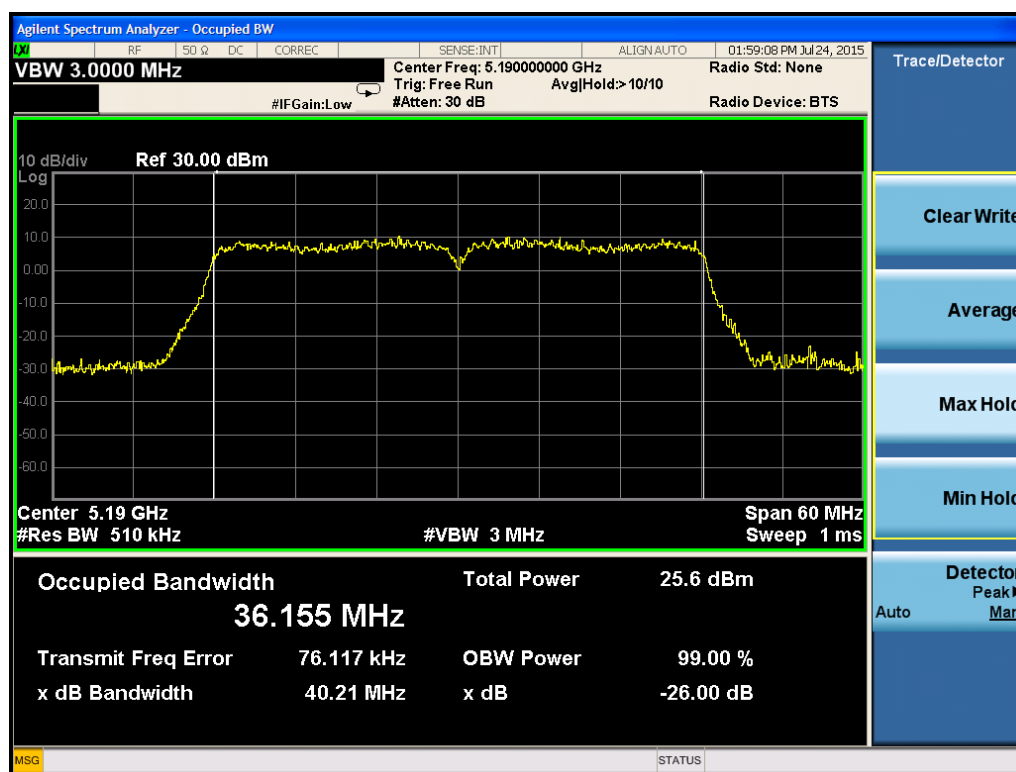


Figure 9-89. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 38)

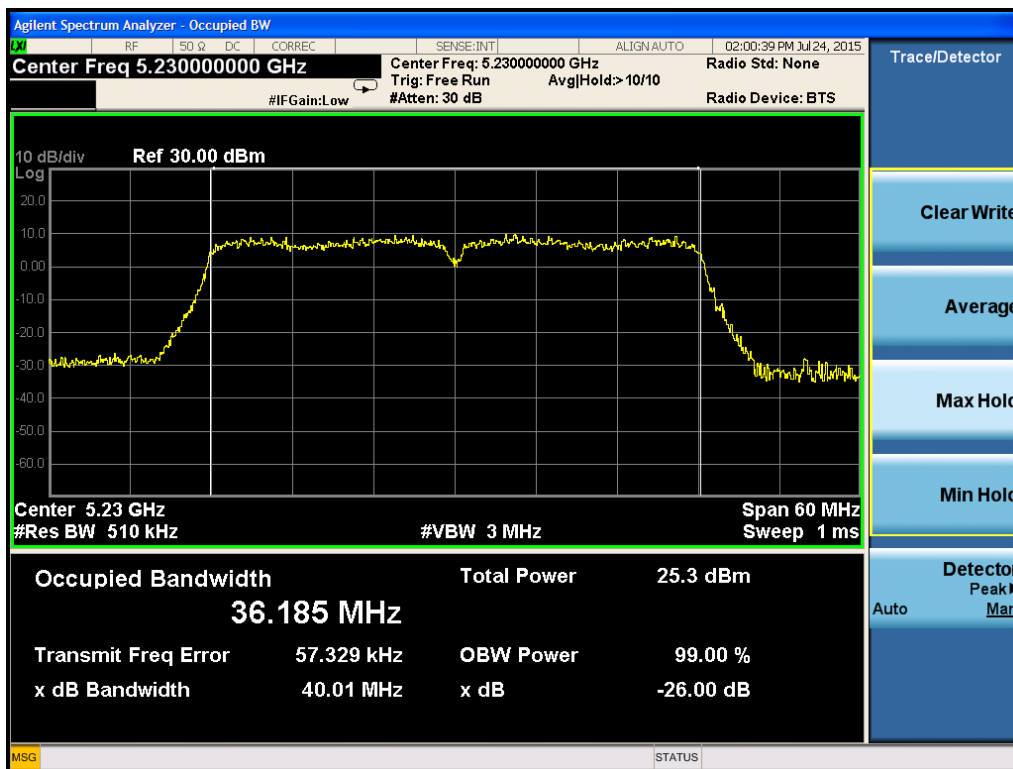


Figure 9-90. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 46)

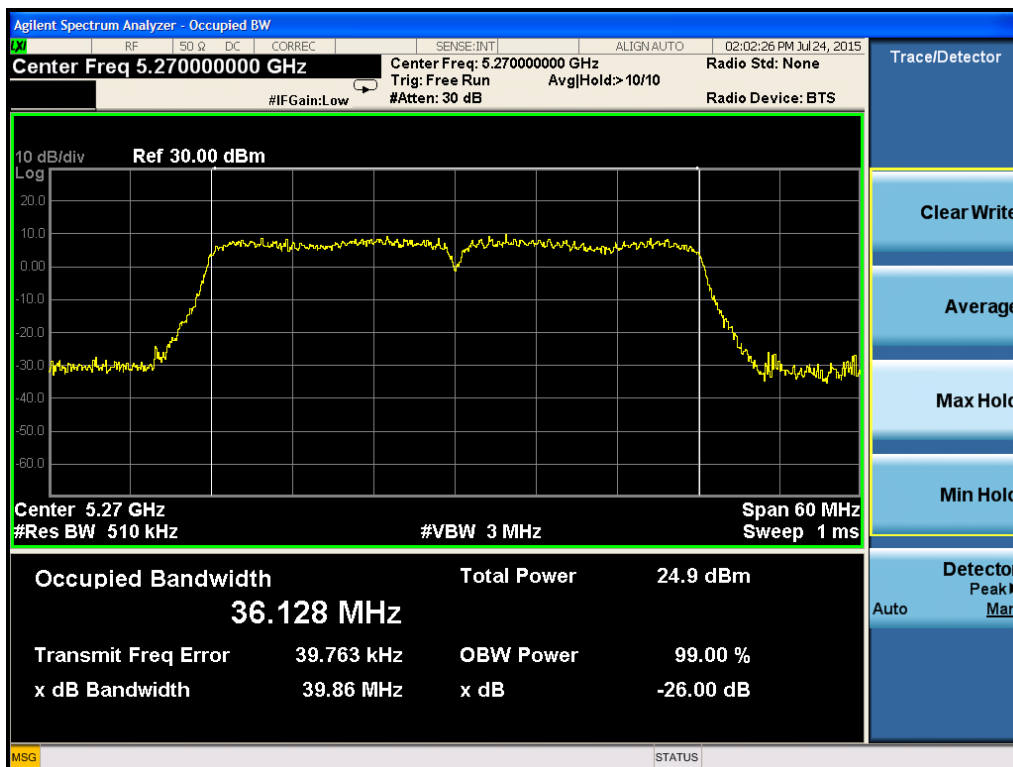


Figure 9-91. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 54)

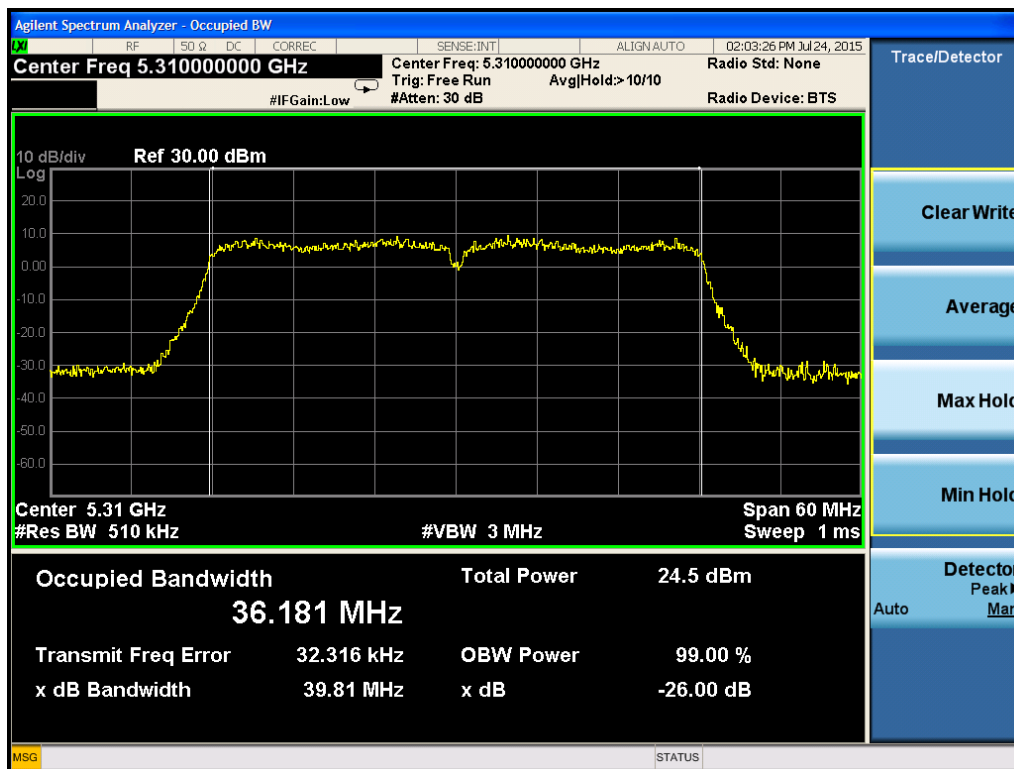


Figure 9-92. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 62)

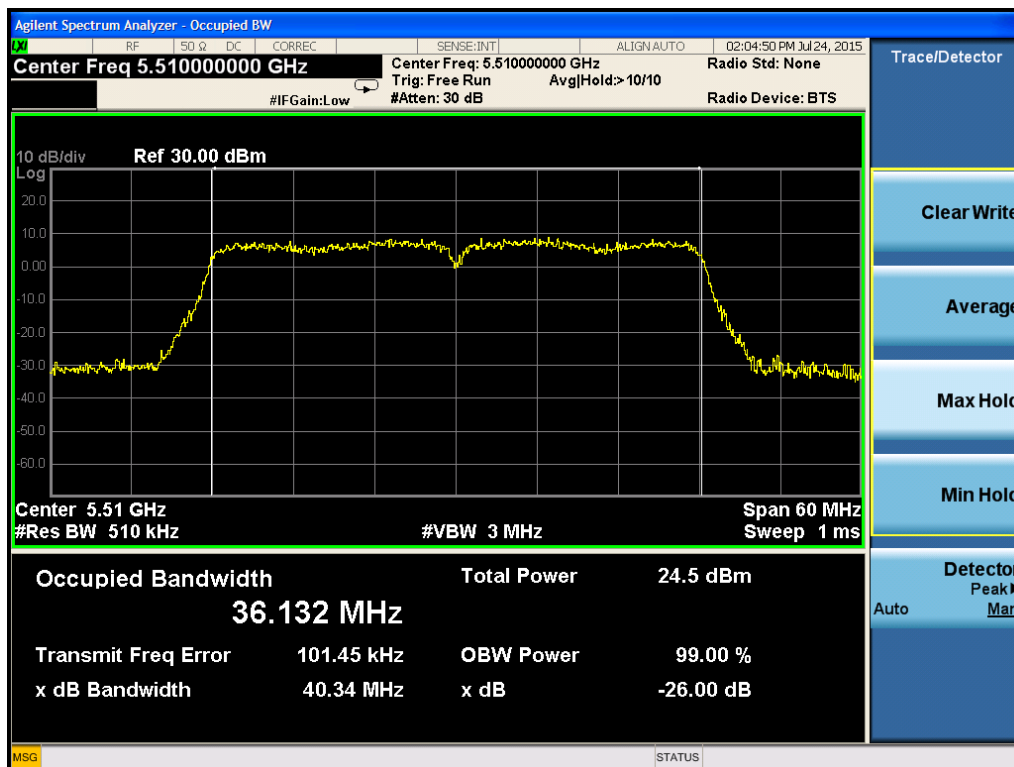


Figure 9-93. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 102)

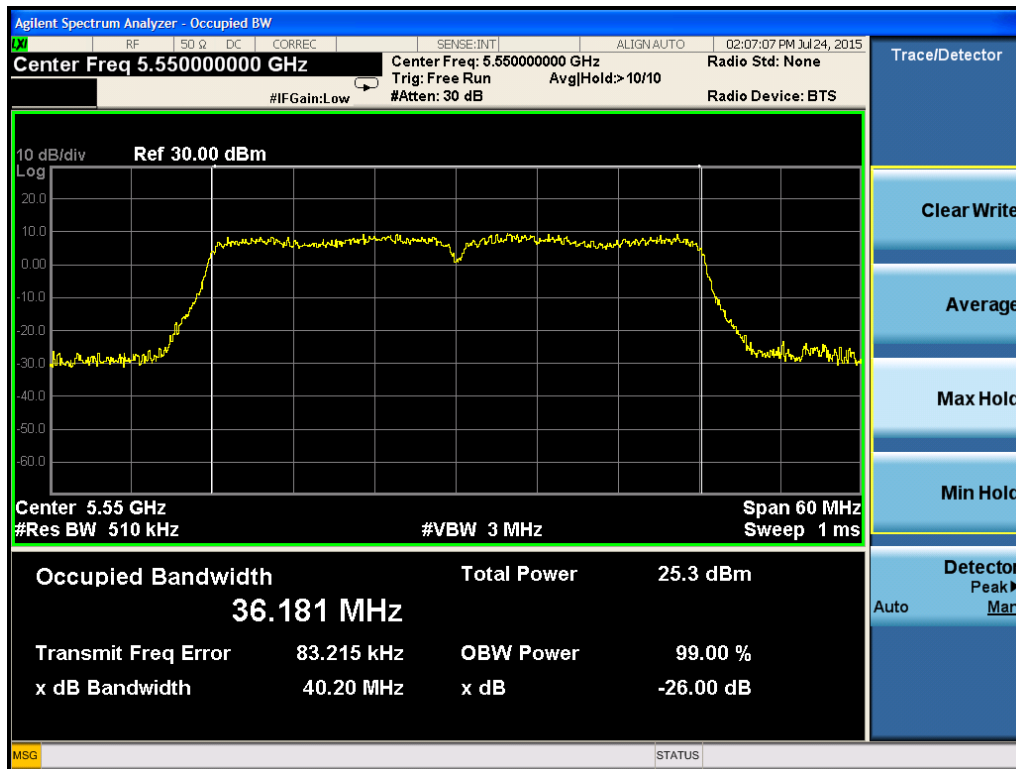


Figure 9-94. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 110)

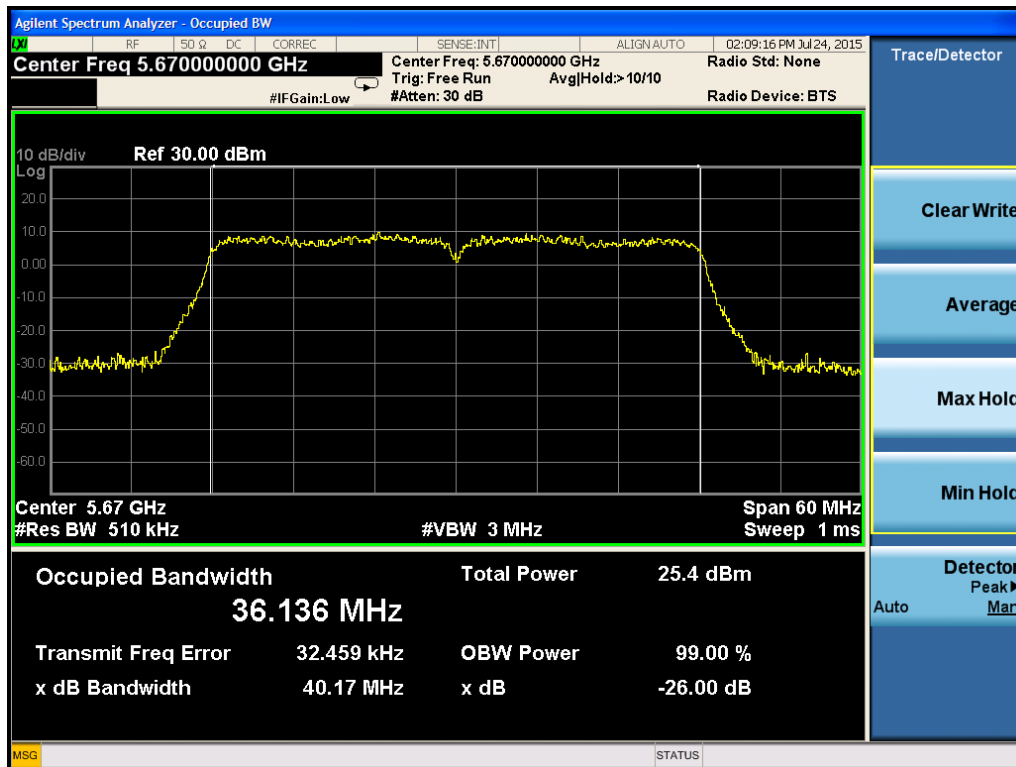


Figure 9-95. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 134)

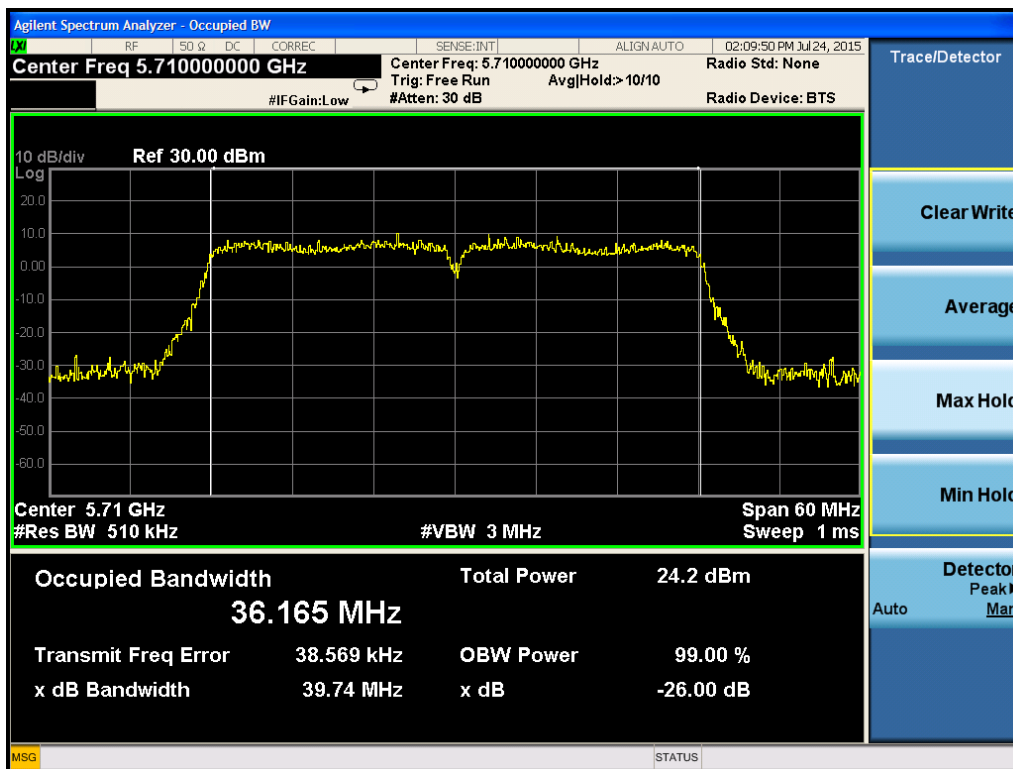


Figure 9-96. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 142)

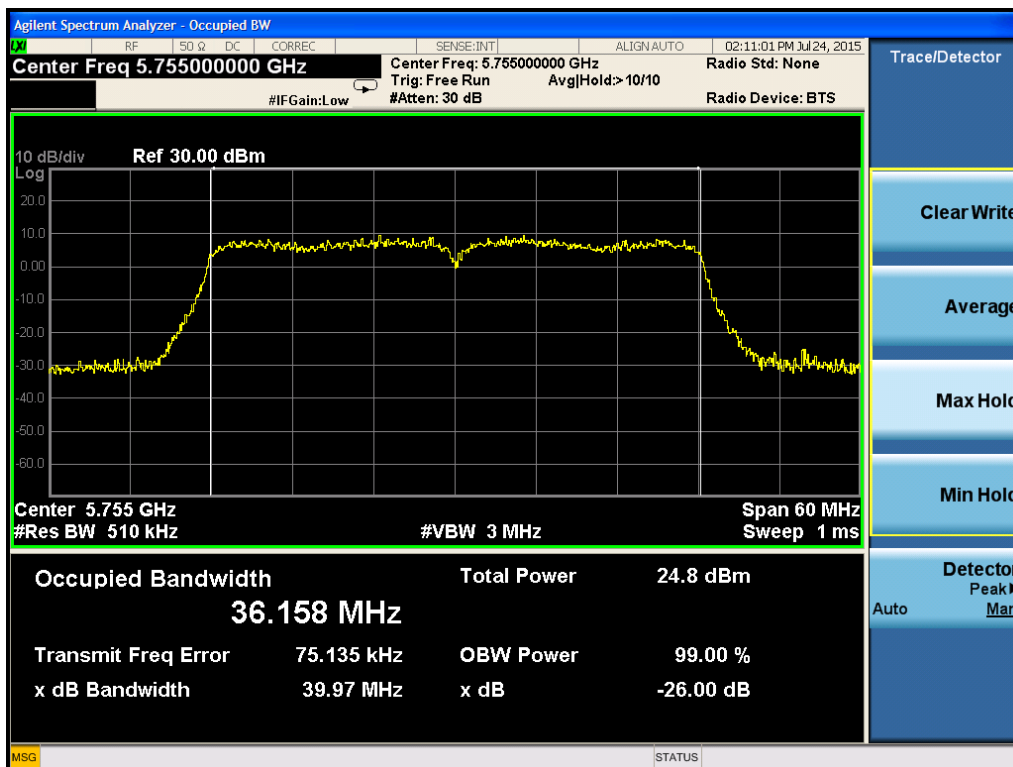


Figure 9-97. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 151)

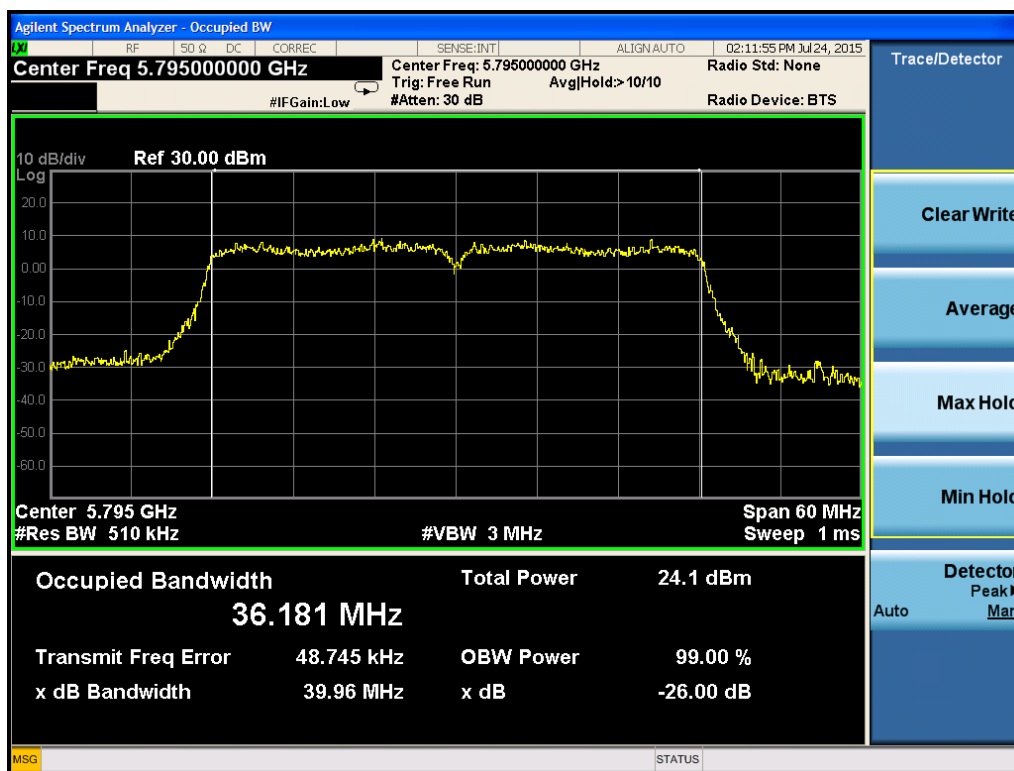


Figure 9-98. 26-dB Emission Bandwidth Chain B 802.11n HT40 (Ch. 159)

9.1.5.9 Chain A 802.11ac VHT40 26-dB Emission Bandwidth

Chain A 802.11ac VHT40 26-dB Emission Bandwidth		
Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)
38	5190	40.54
46	5230	40.13
54	5270	40.73
62	5310	40.38
102	5510	40.48
110	5550	40.65
134	5670	40.49
142	5710	40.65
151	5755	40.52
159	5795	40.72

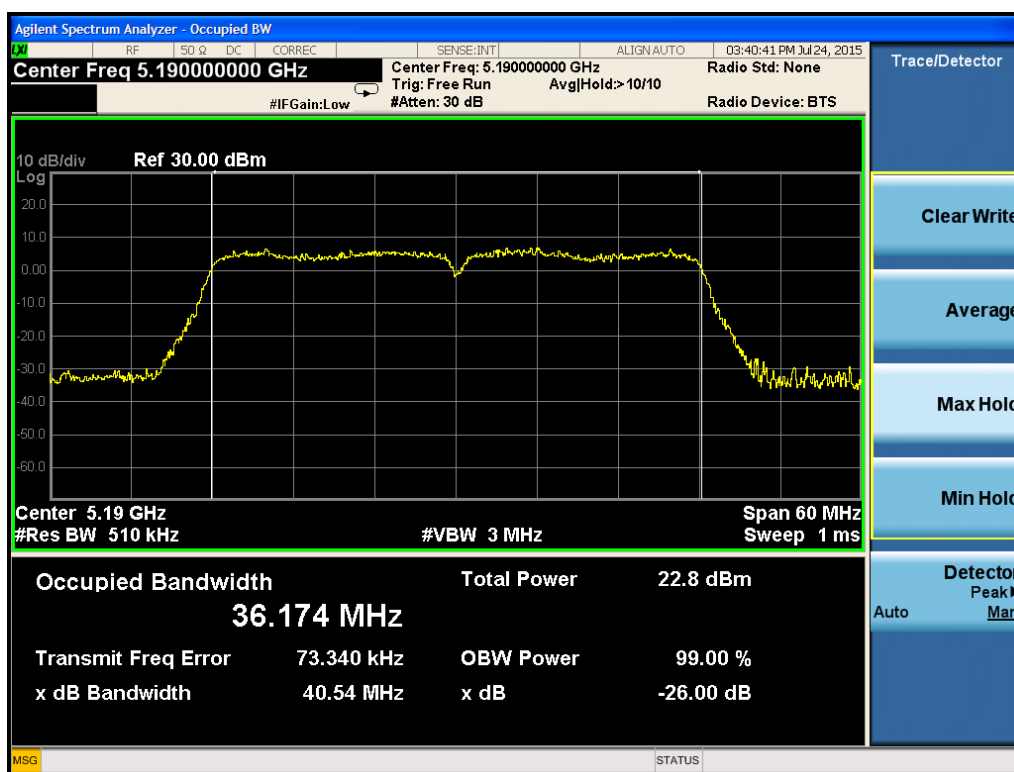


Figure 9-99. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 38)

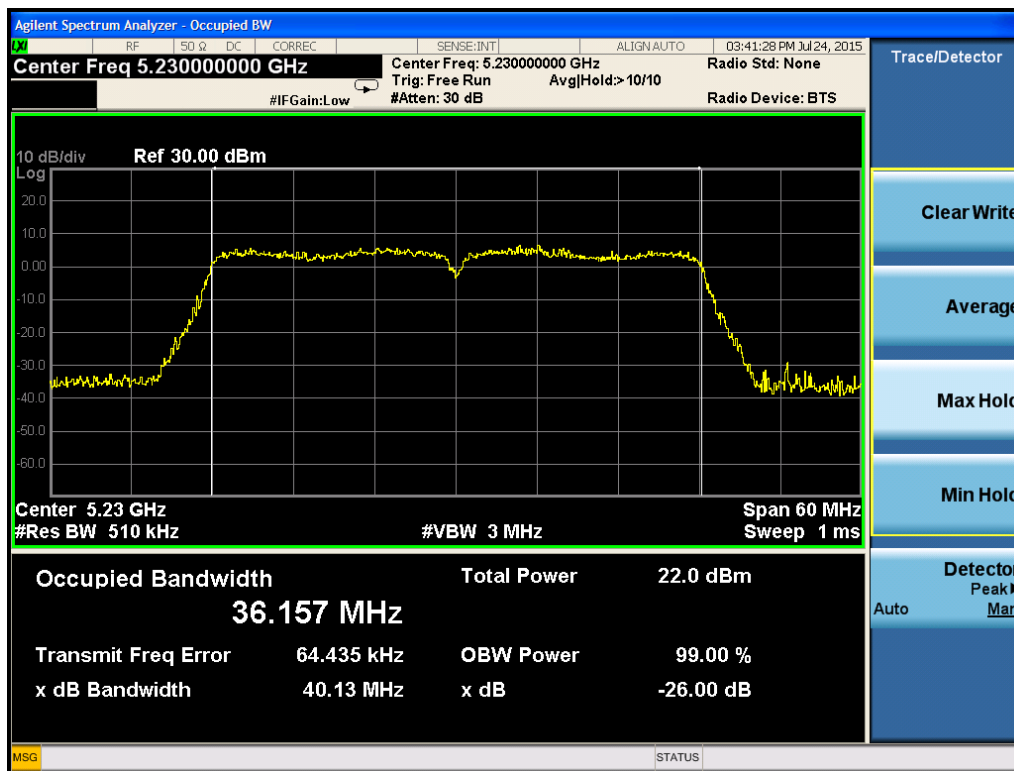


Figure 9-100. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 46)

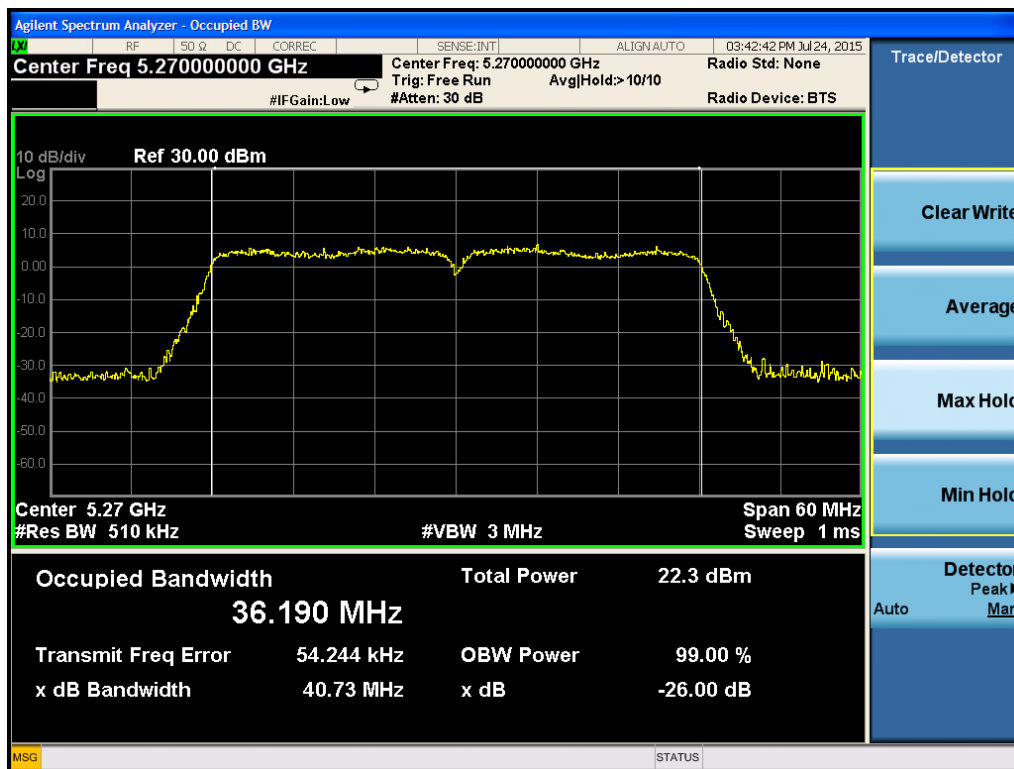


Figure 9-101. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 54)

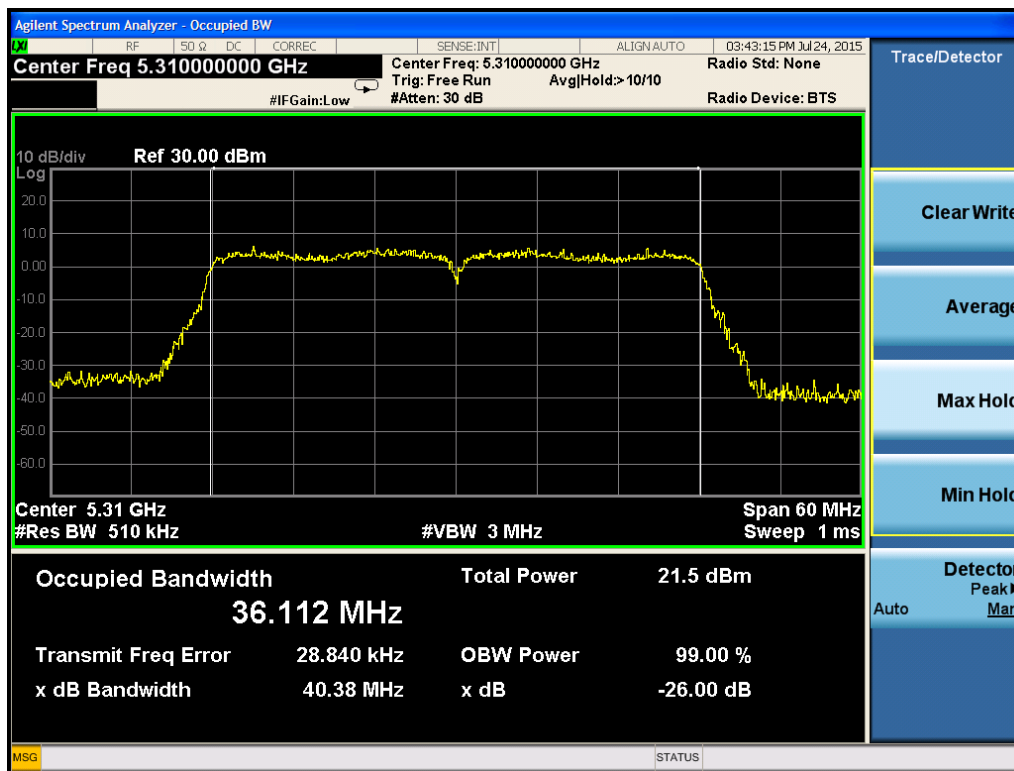


Figure 9-102. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 62)

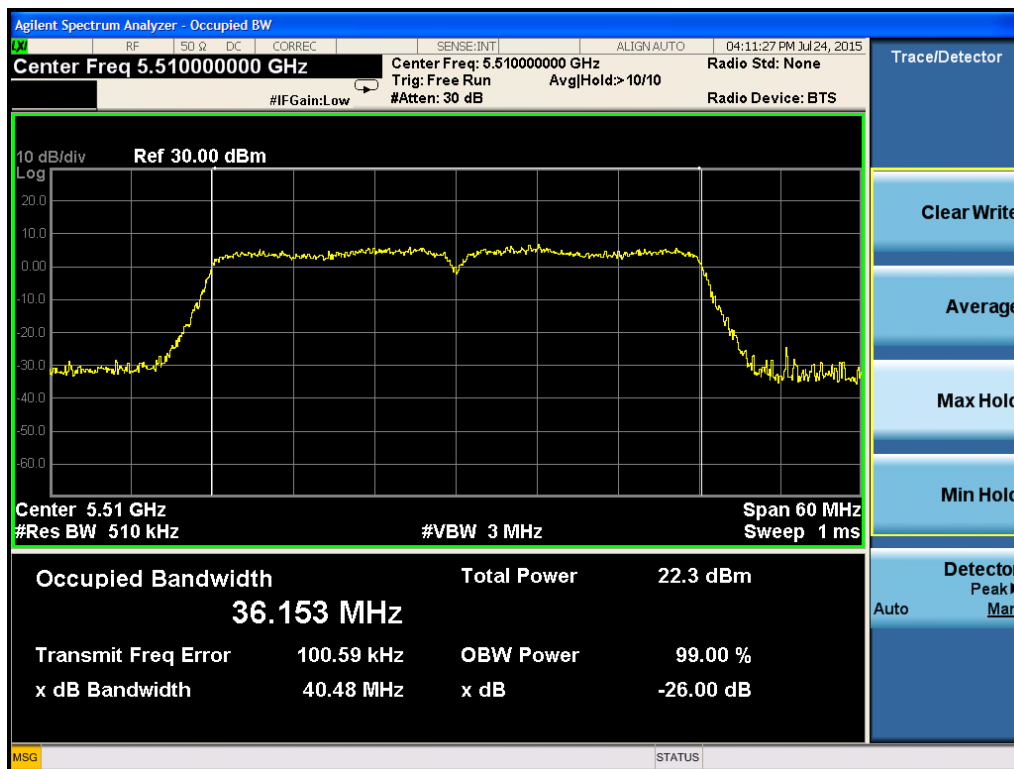


Figure 9-103. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 102)

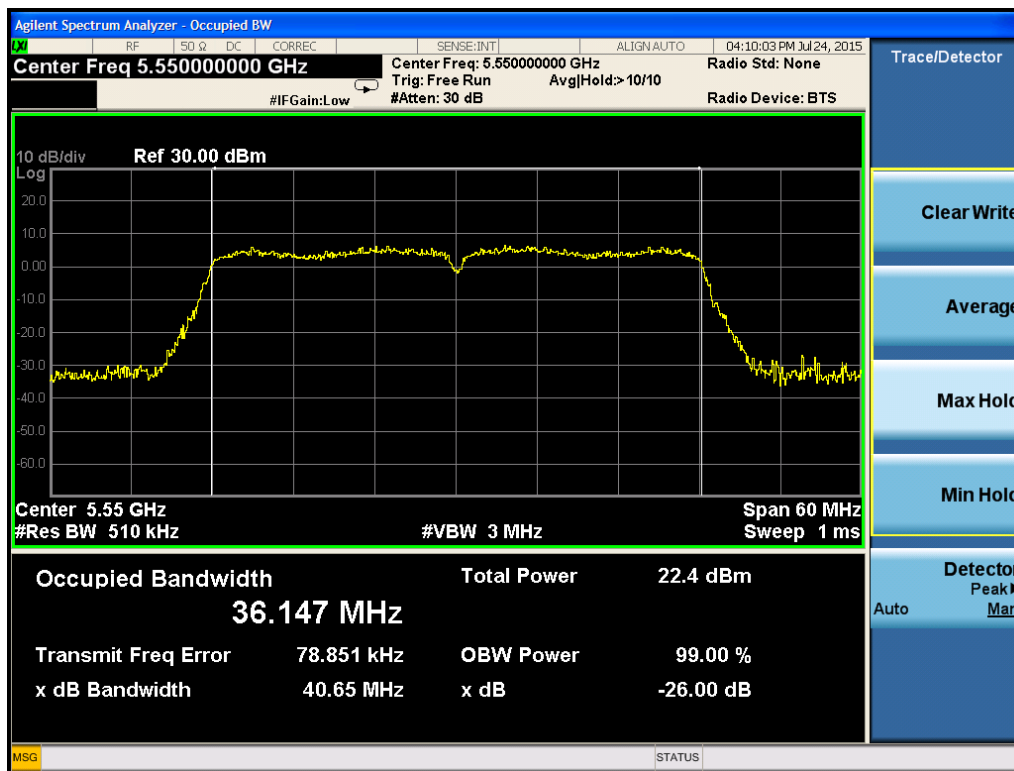


Figure 9-104. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 110)

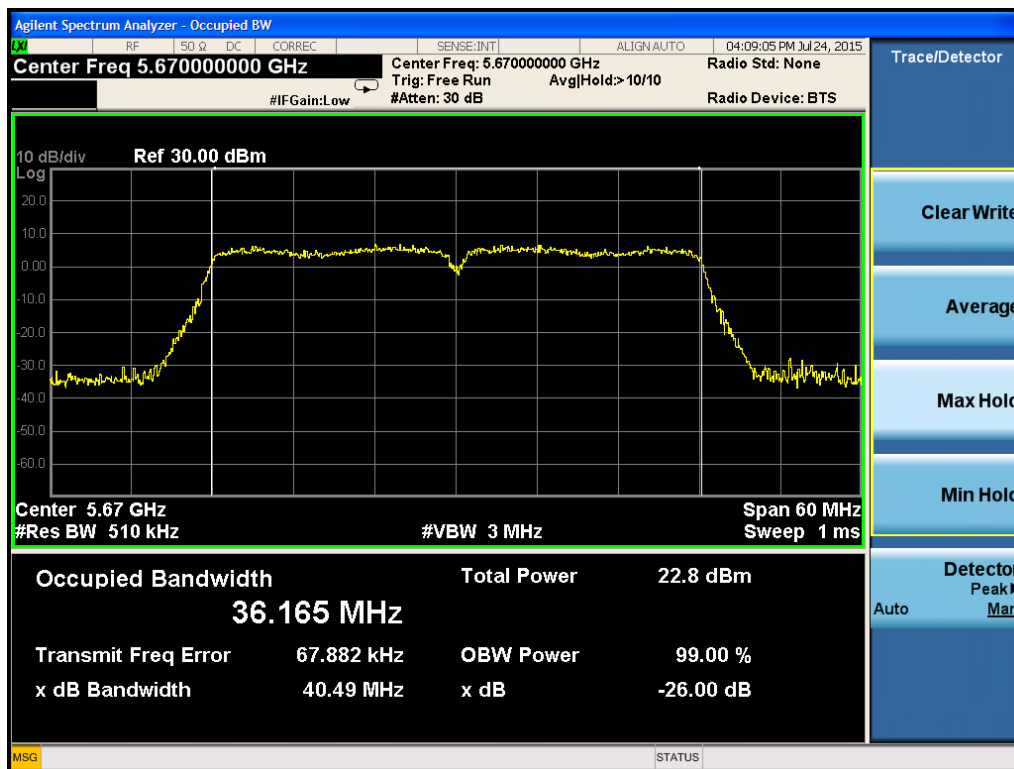


Figure 9-105. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 134)

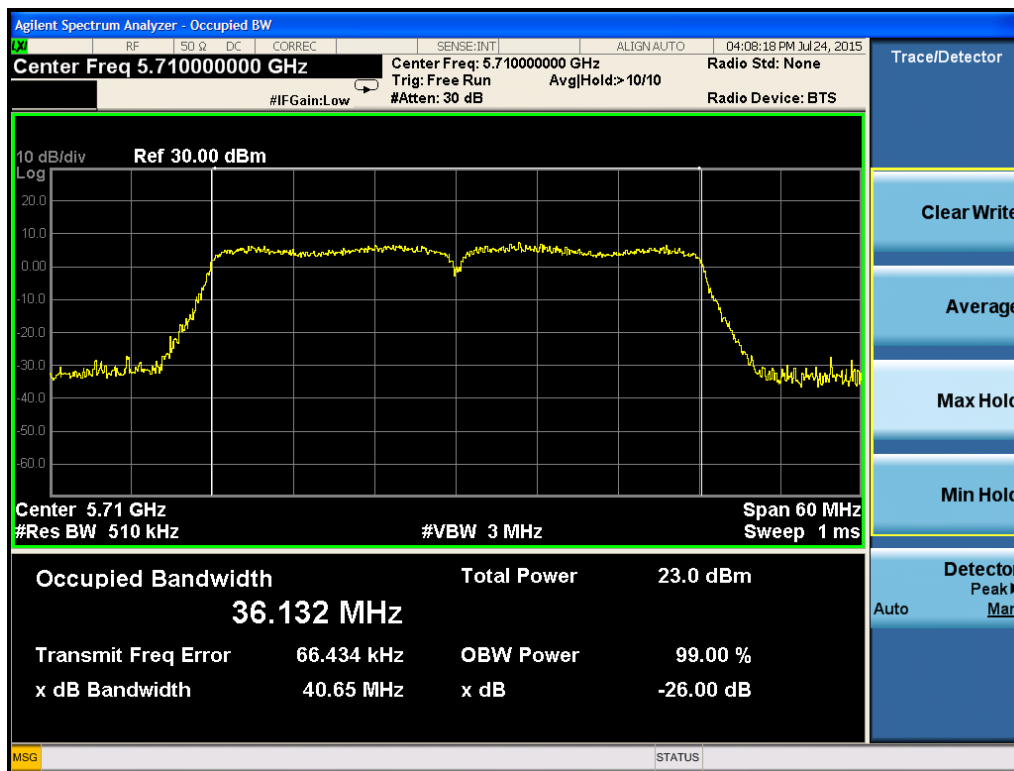


Figure 9-106. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 142)

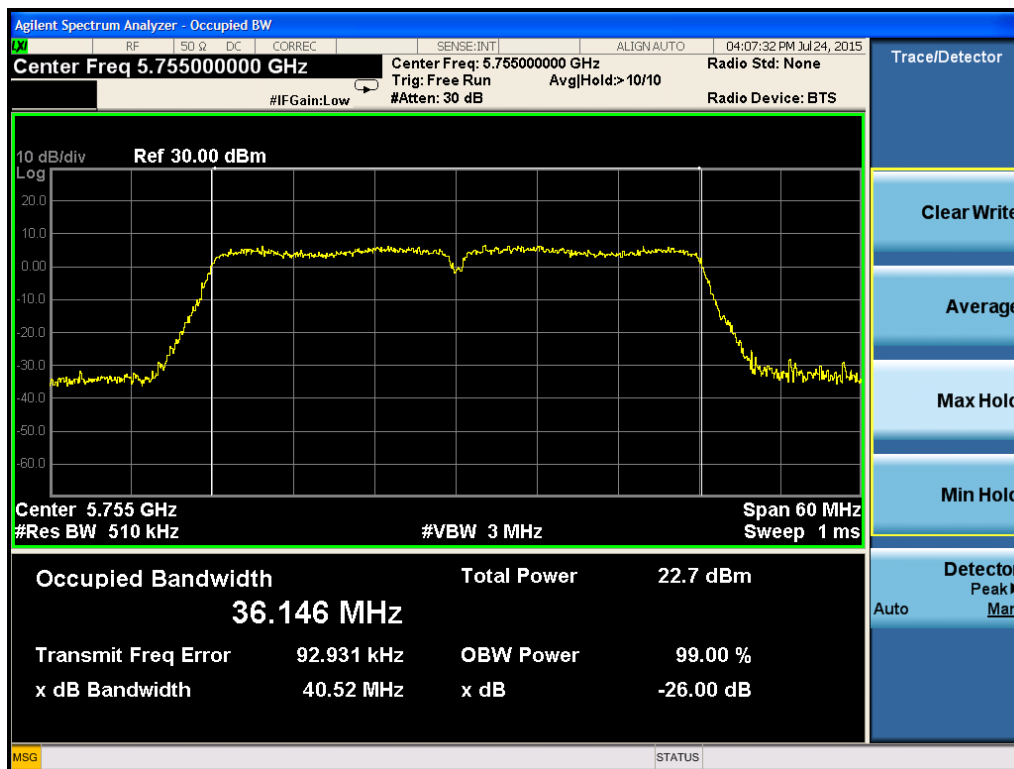


Figure 9-107. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 151)

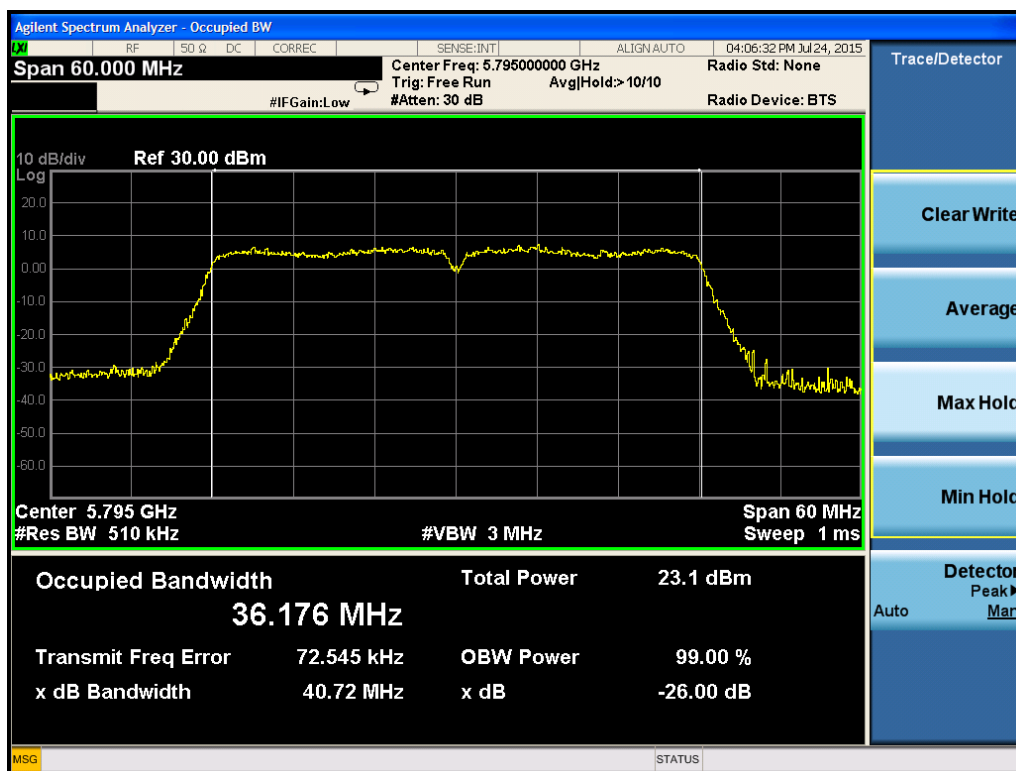


Figure 9-108. 26-dB Emission Bandwidth Chain A 802.11ac VHT40 (Ch. 159)

9.1.5.10 Chain B 802.11ac VHT40 26-dB Emission Bandwidth

Chain B 802.11ac VHT40 26-dB Emission Bandwidth		
Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)
38	5190	40.07
46	5230	40.57
54	5270	40.44
62	5310	40.02
102	5510	40.37
110	5550	40.08
134	5670	39.44
142	5710	40.38
151	5755	40.04
159	5795	40.23

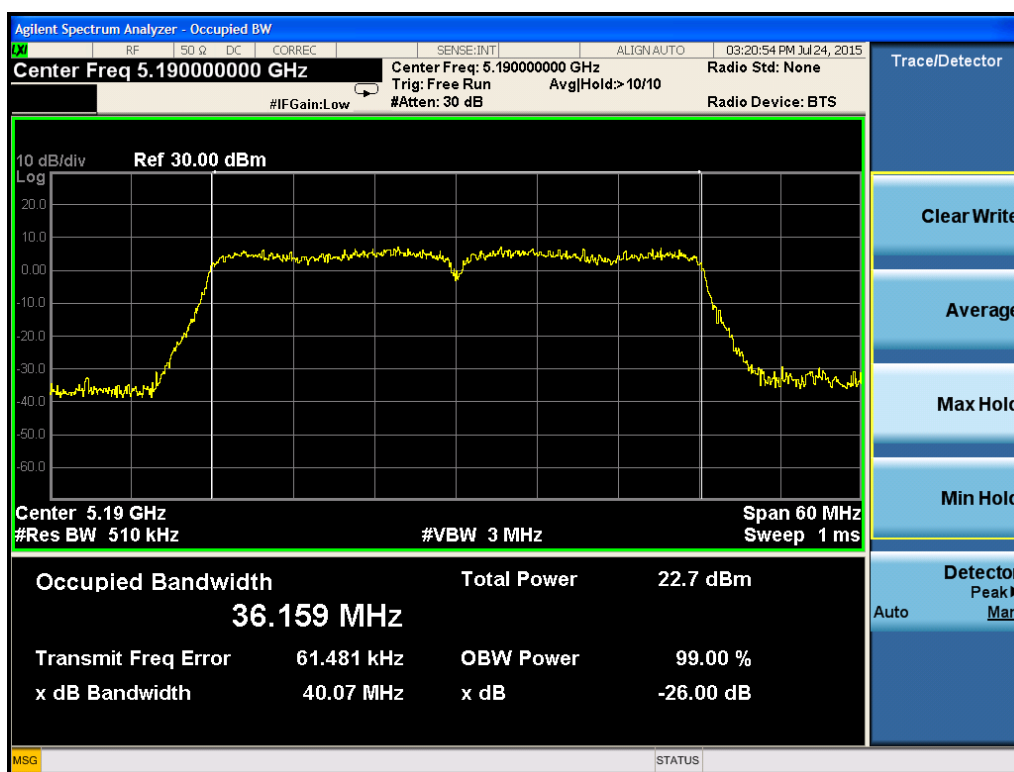


Figure 9-109. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 38)

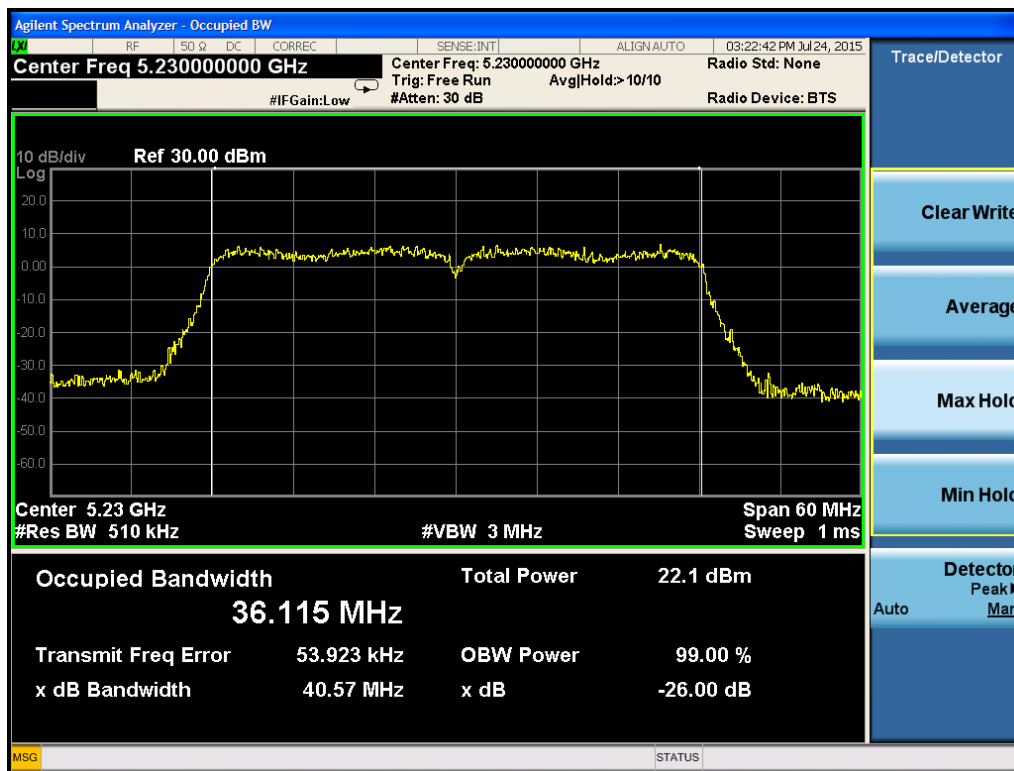


Figure 9-110. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 46)

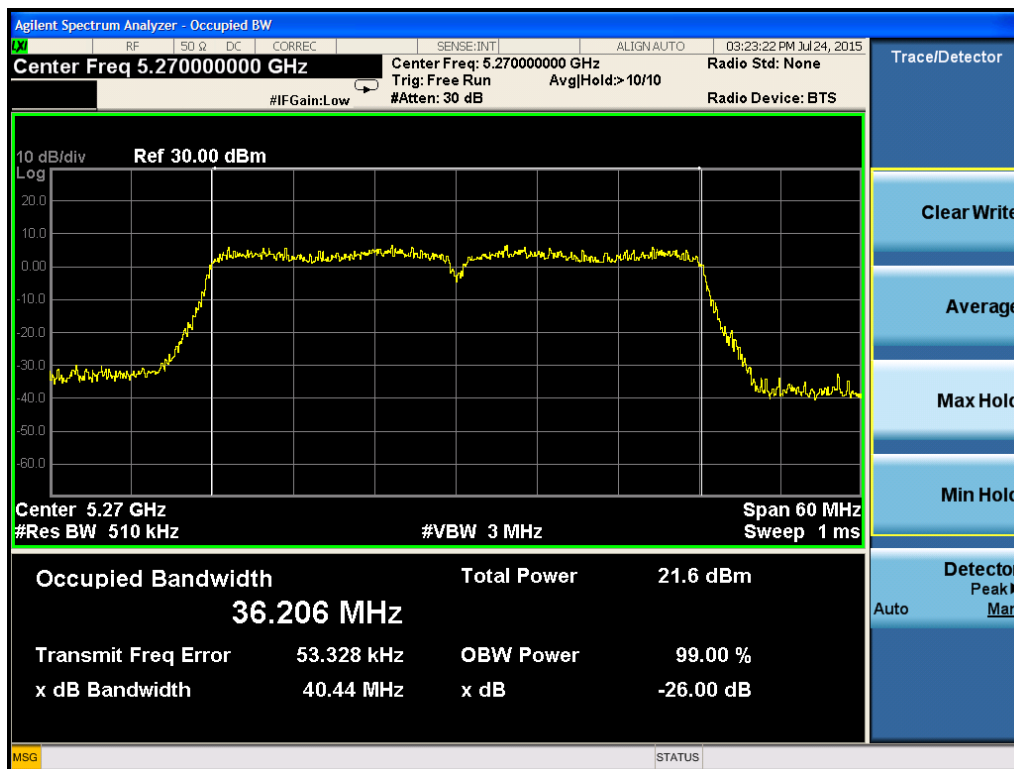


Figure 9-111. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 54)

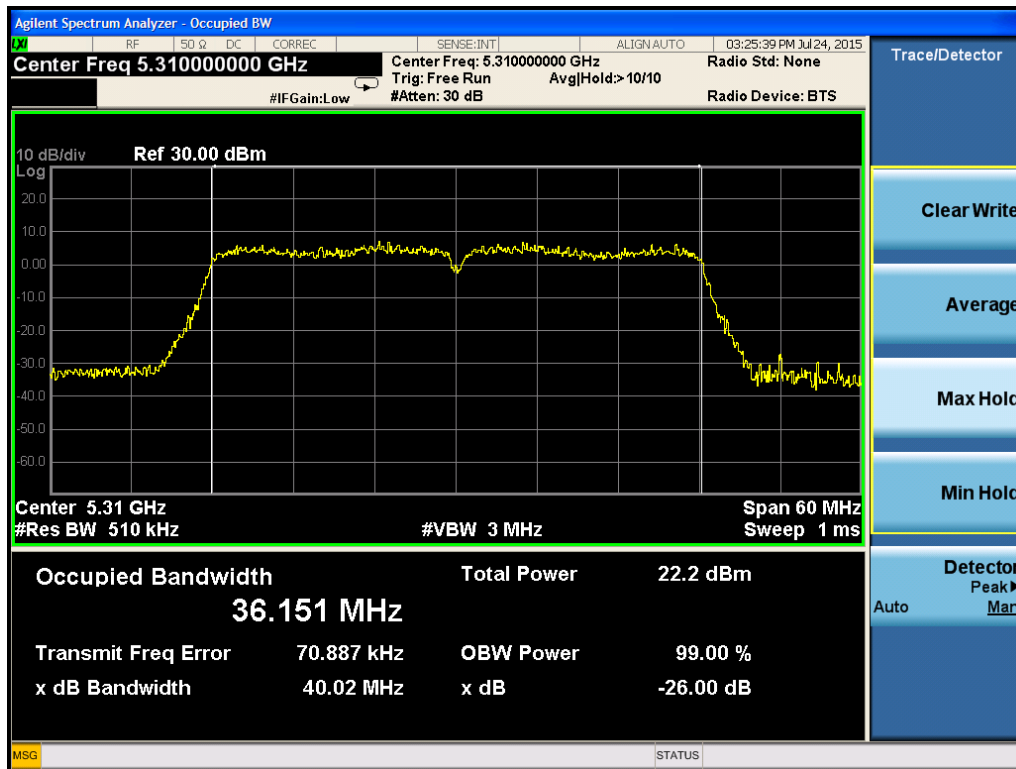


Figure 9-112. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 62)

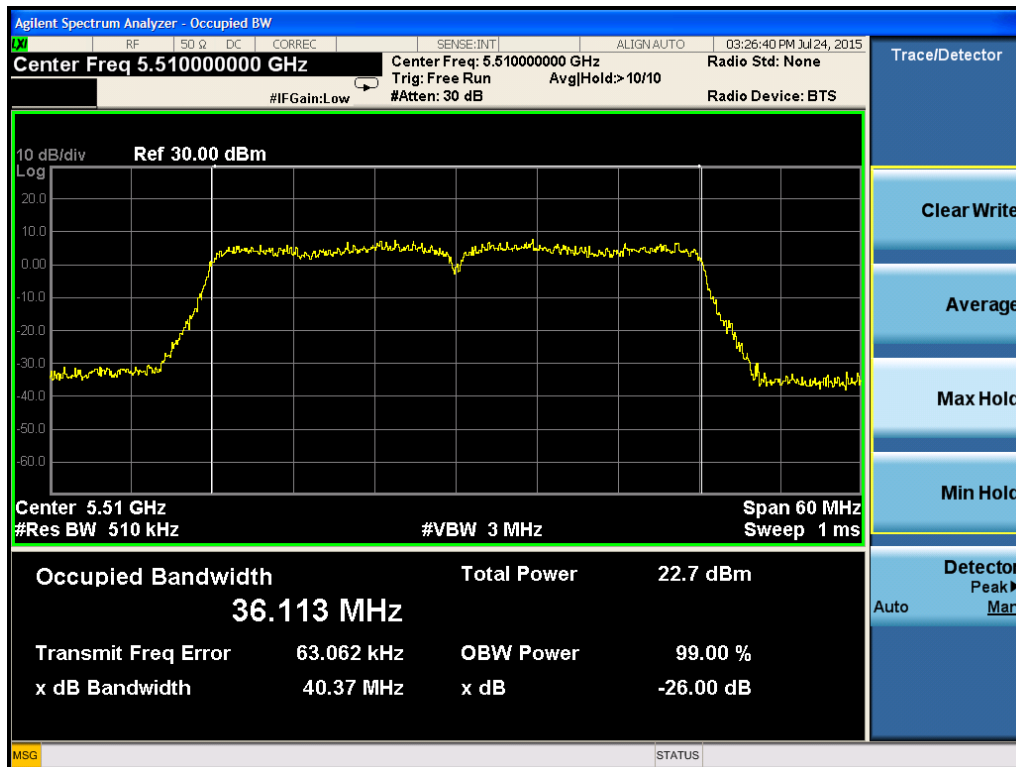


Figure 9-113. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 102)

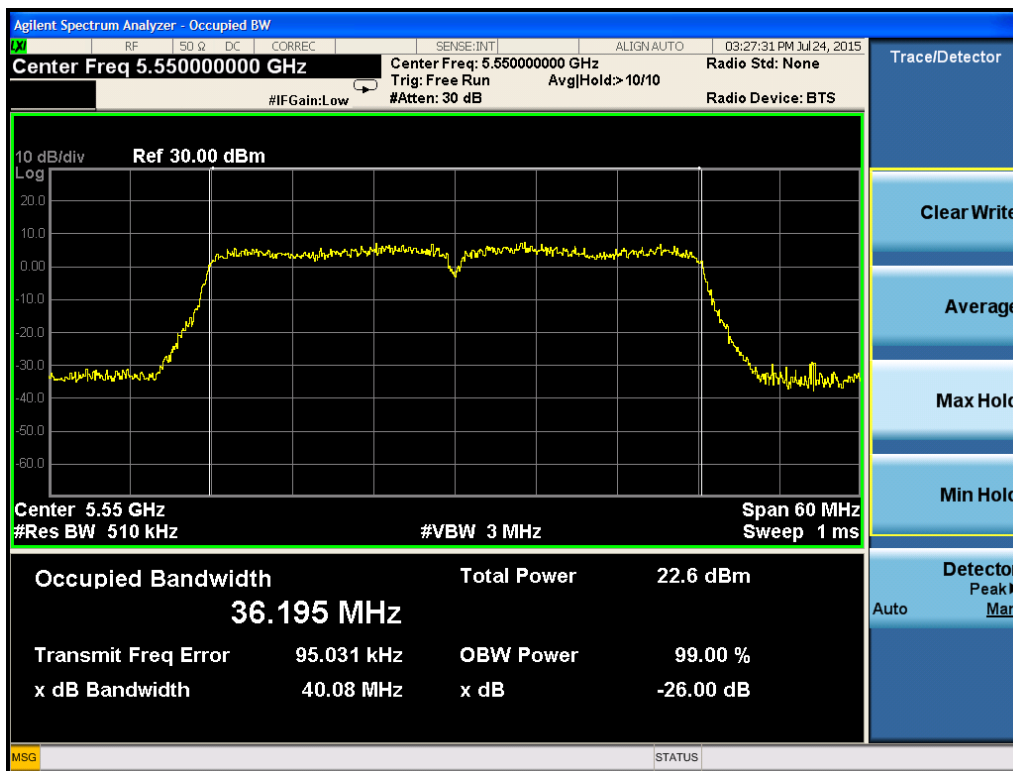


Figure 9-114. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 110)

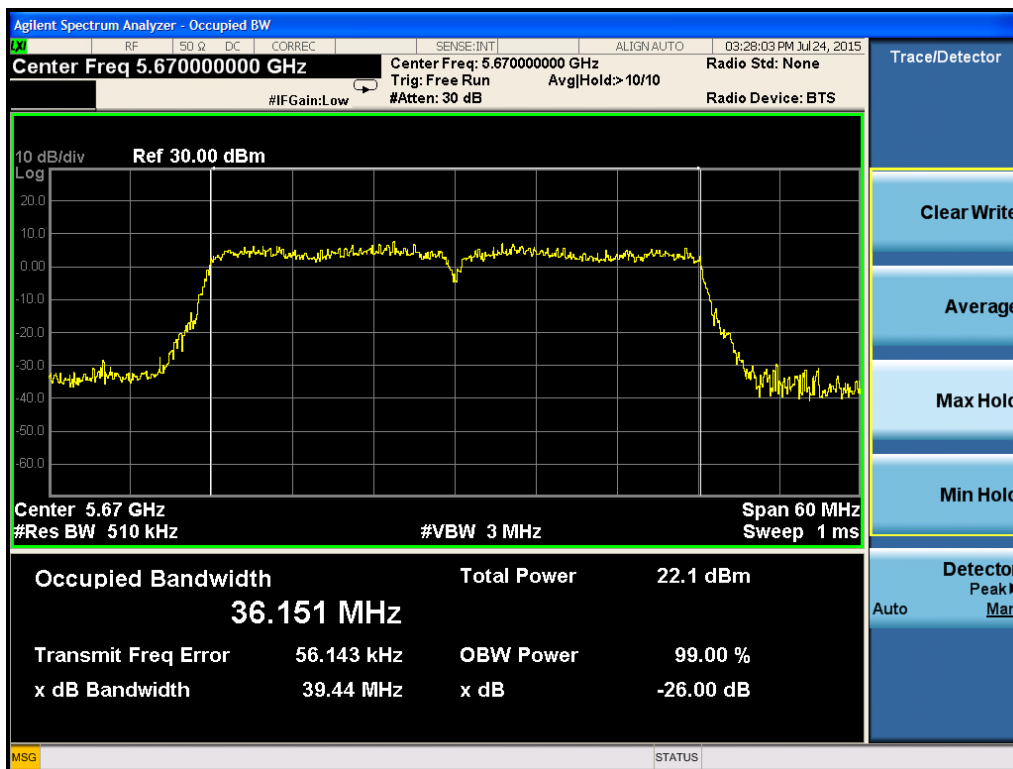


Figure 9-115. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 134)

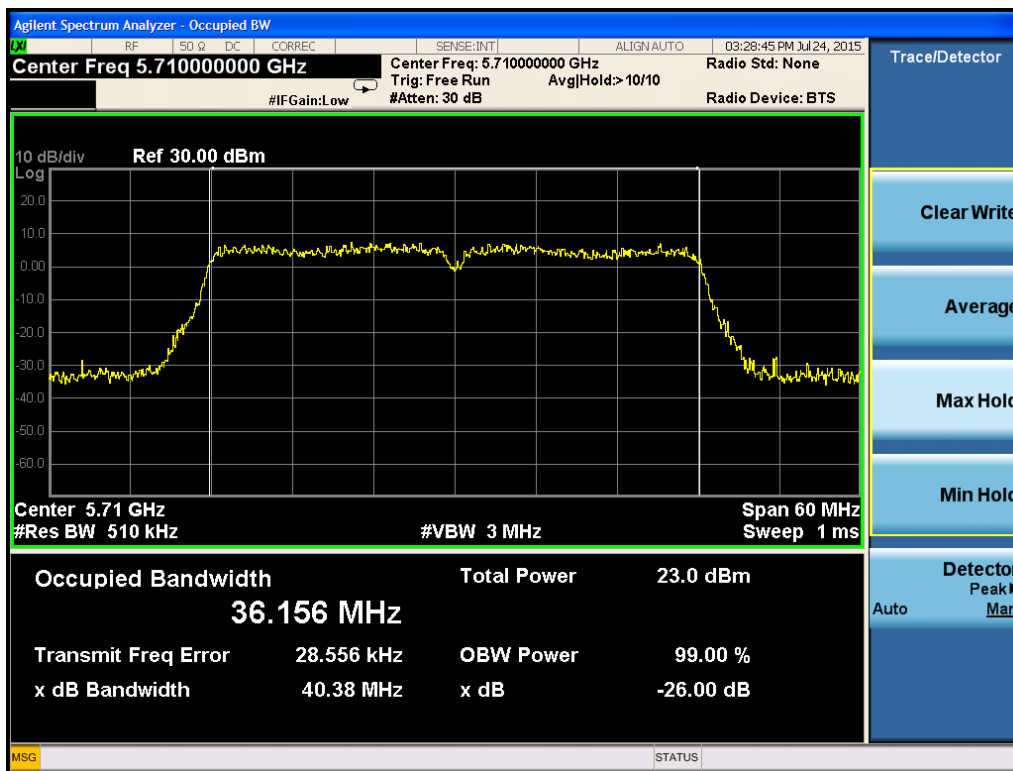


Figure 9-116. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 142)

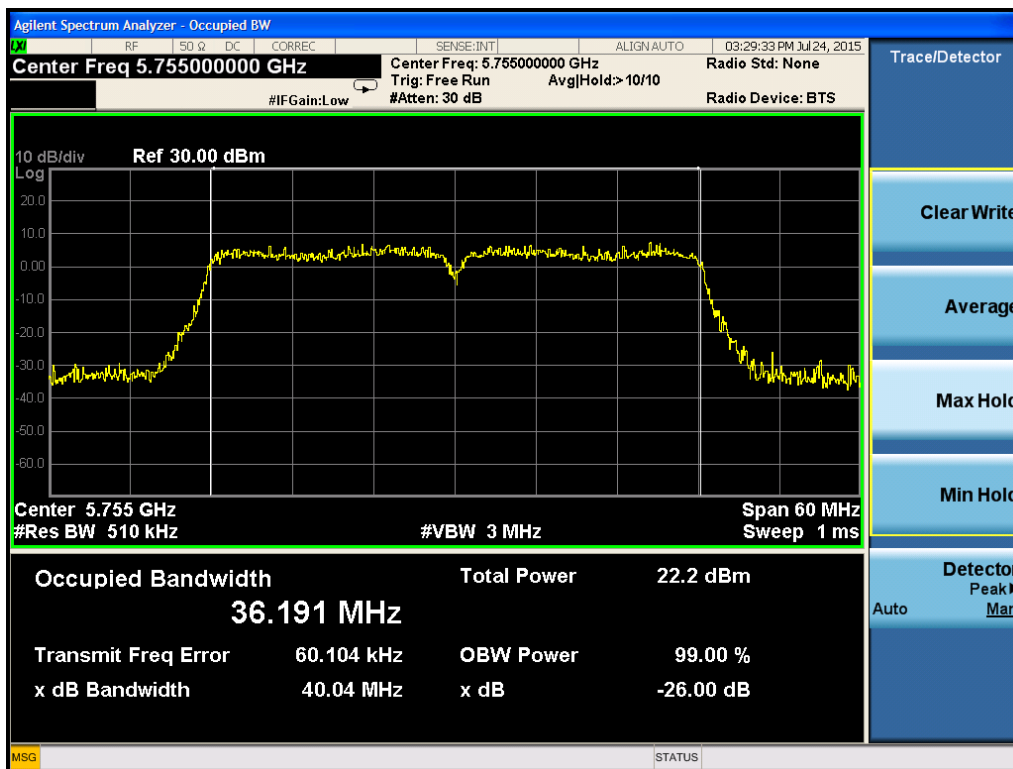


Figure 9-117. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 151)

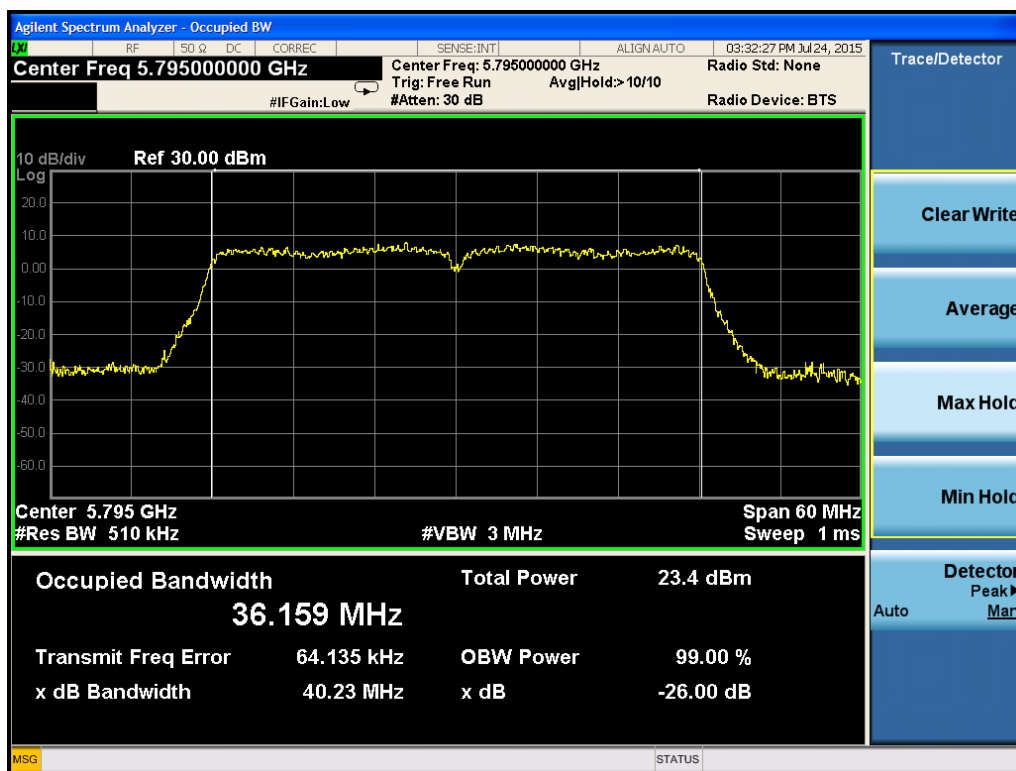


Figure 9-118. 26-dB Emission Bandwidth Chain B 802.11ac VHT40 (Ch. 159)

9.1.5.11 Chain A 802.11ac VHT80 26-dB Emission Bandwidth

Chain A 802.11ac VHT80 26-dB Emission Bandwidth		
Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)
42	5210	81.45
58	5290	81.60
106	5530	81.52
122	5610	81.66
138	5690	81.76
155	5775	81.54

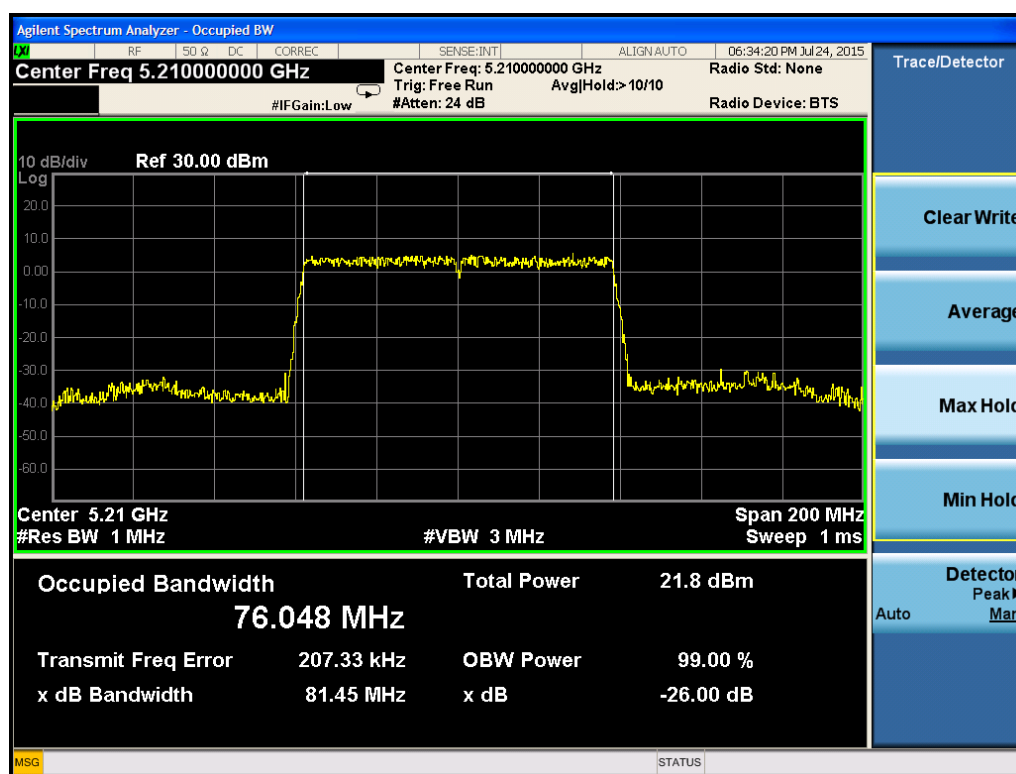


Figure 9-119. 26-dB Emission Bandwidth Chain A 802.11ac VHT80 (Ch. 42)

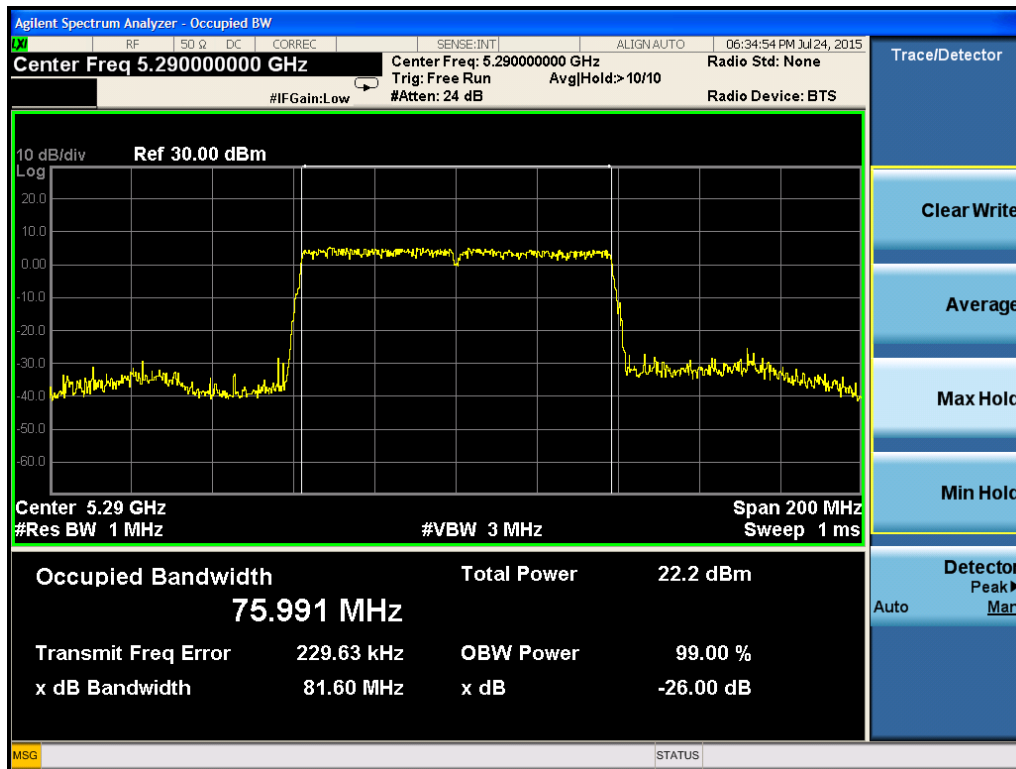


Figure 9-120. 26-dB Emission Bandwidth Chain A 802.11ac VHT80 (Ch. 58)

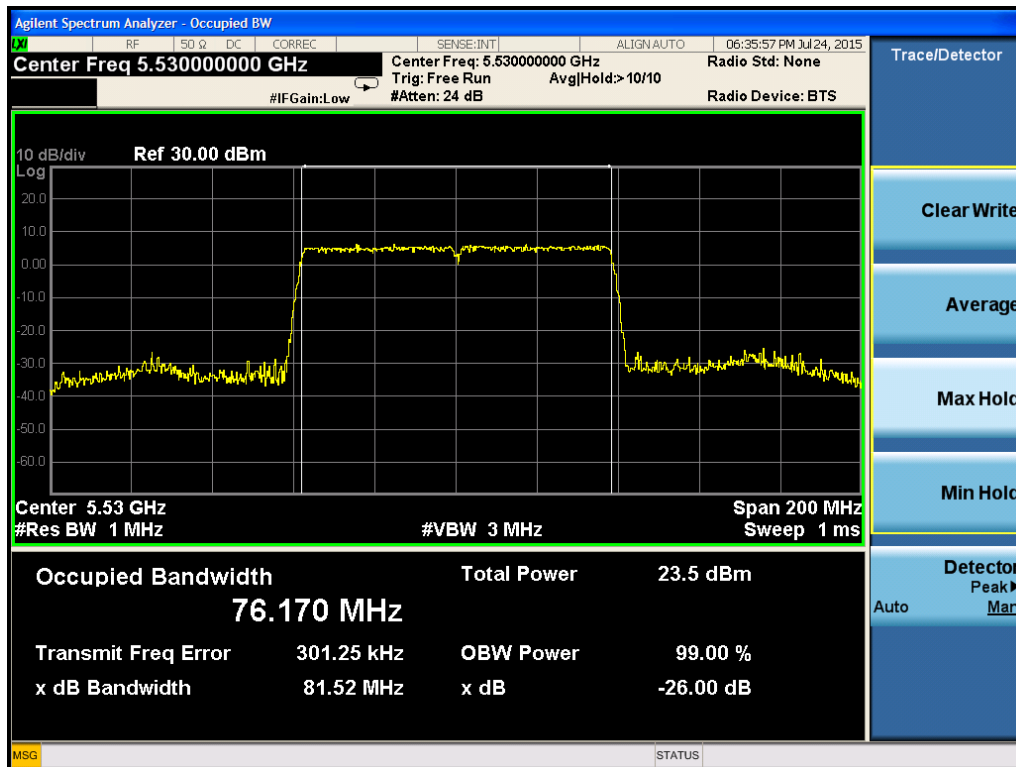


Figure 9-121. 26-dB Emission Bandwidth Chain A 802.11ac VHT80 (Ch. 106)

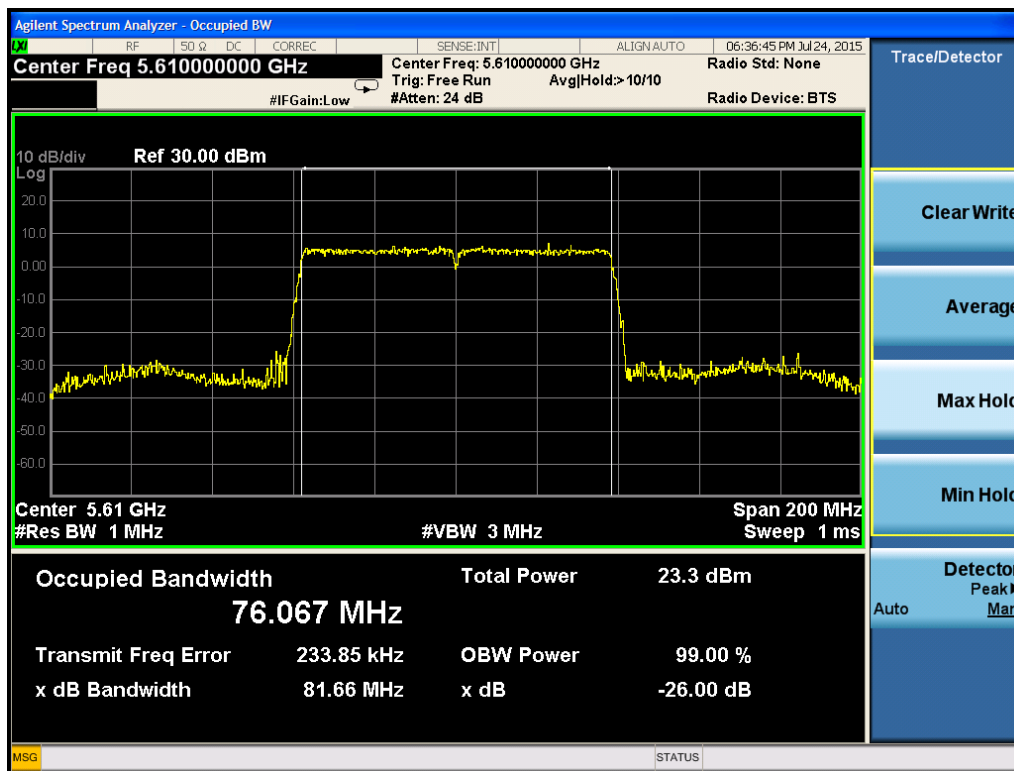


Figure 9-122. 26-dB Emission Bandwidth Chain A 802.11ac VHT80 (Ch. 122)

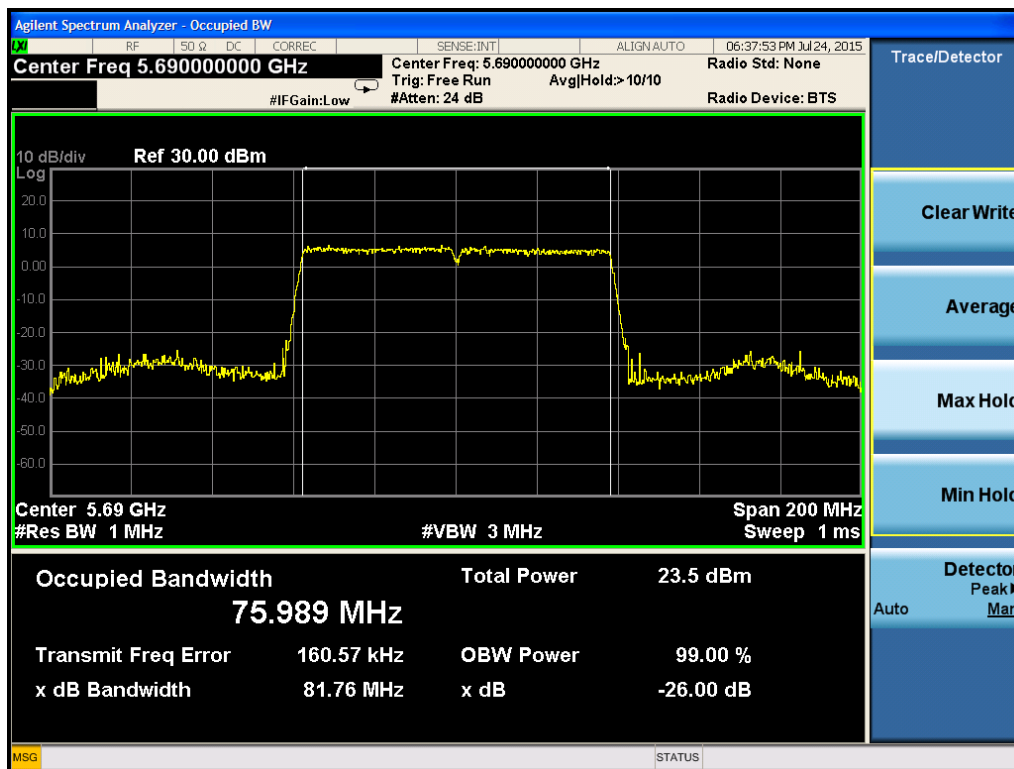


Figure 9-123. 26-dB Emission Bandwidth Chain A 802.11ac VHT80 (Ch. 138)

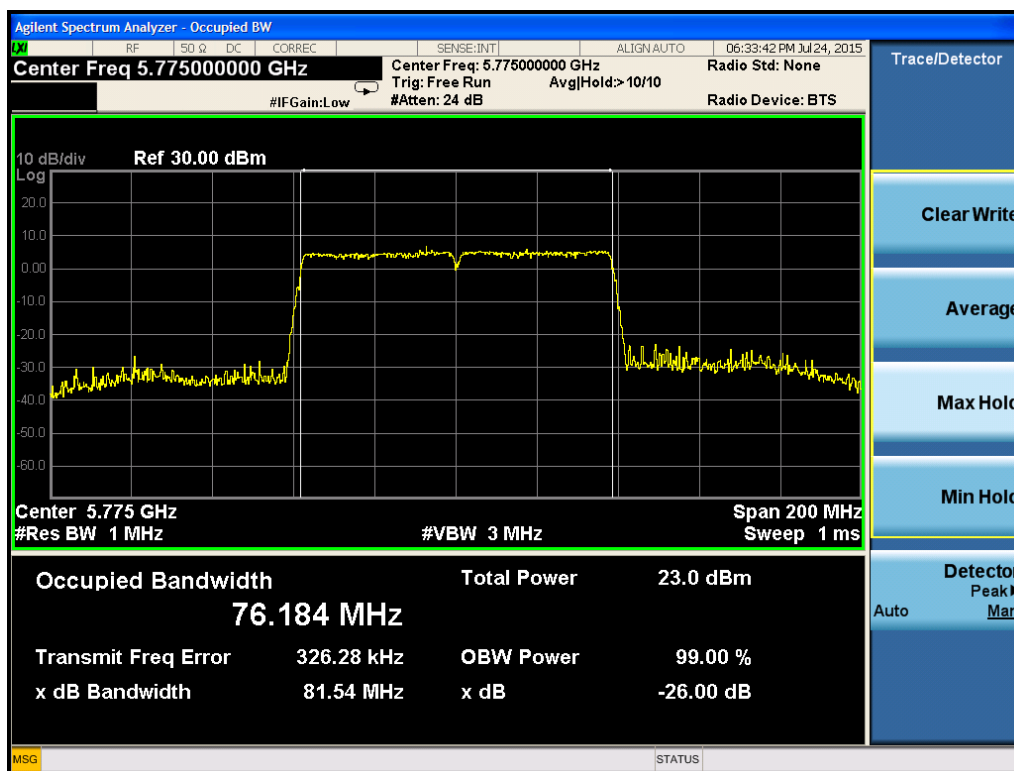


Figure 9-124. 26-dB Emission Bandwidth Chain A 802.11ac VHT80 (Ch. 155)

9.1.5.12 Chain B 802.11ac VHT80 26-dB Emission Bandwidth

Chain B 802.11ac VHT80 26-dB Emission Bandwidth		
Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)
42	5210	81.08
58	5290	81.05
106	5530	81.46
122	5610	81.22
138	5690	81.33
155	5775	81.55

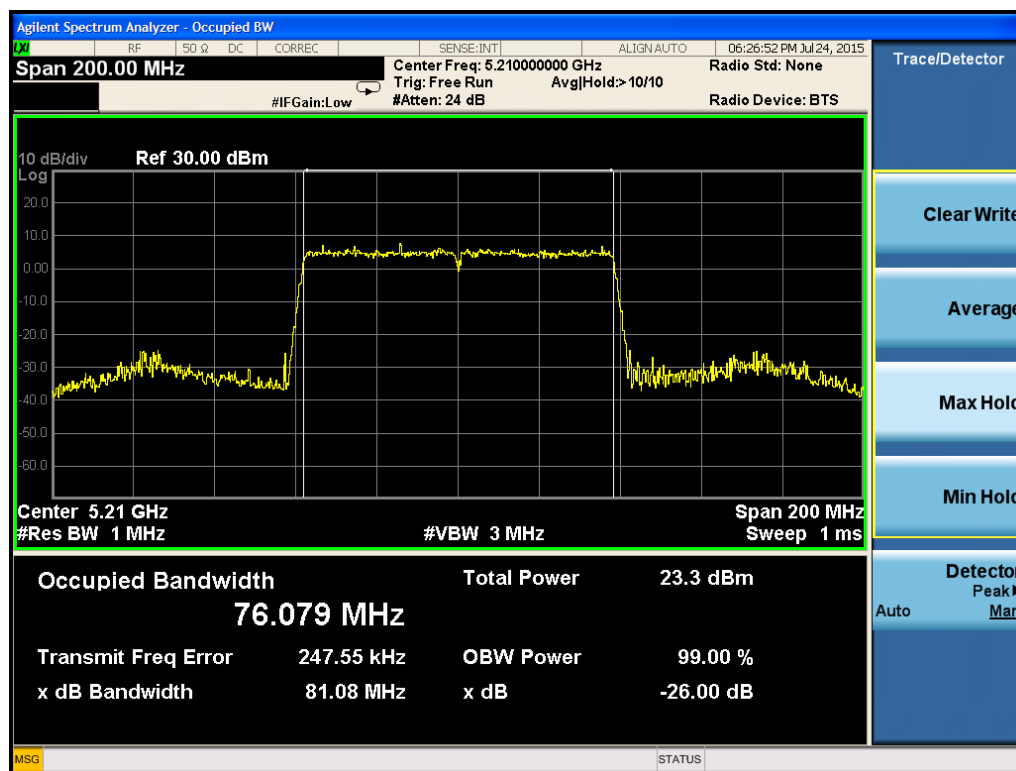


Figure 9-125. 26-dB Emission Bandwidth Chain B 802.11ac VHT80 (Ch. 42)

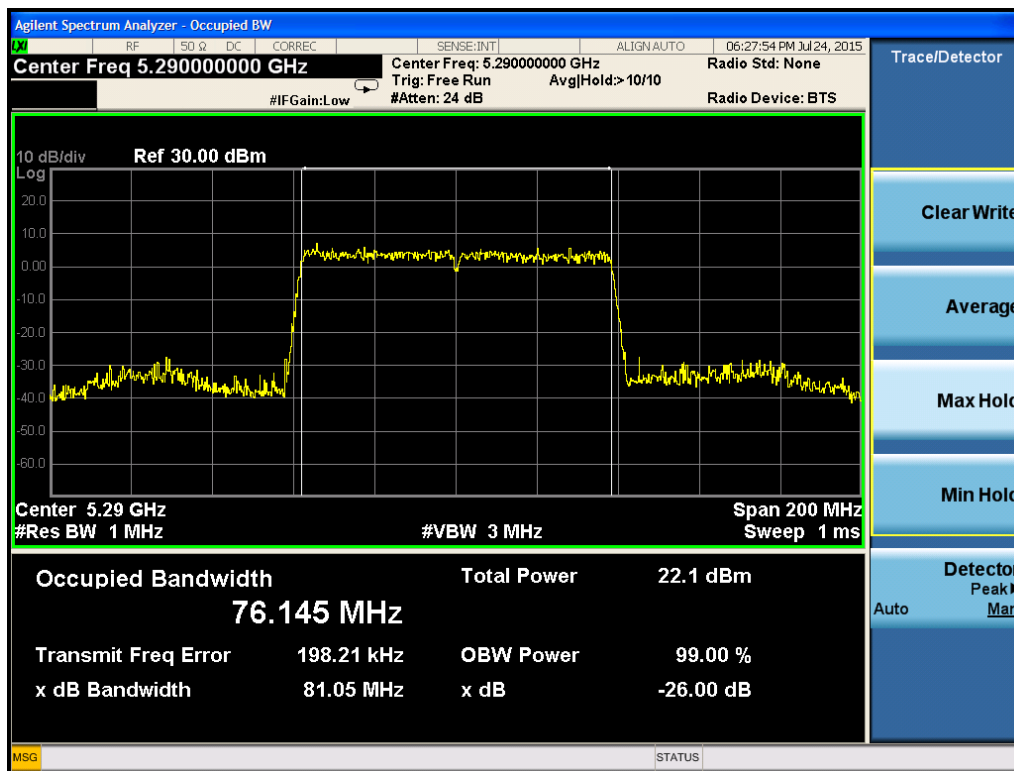


Figure 9-126. 26-dB Emission Bandwidth Chain B 802.11ac VHT80 (Ch. 58)

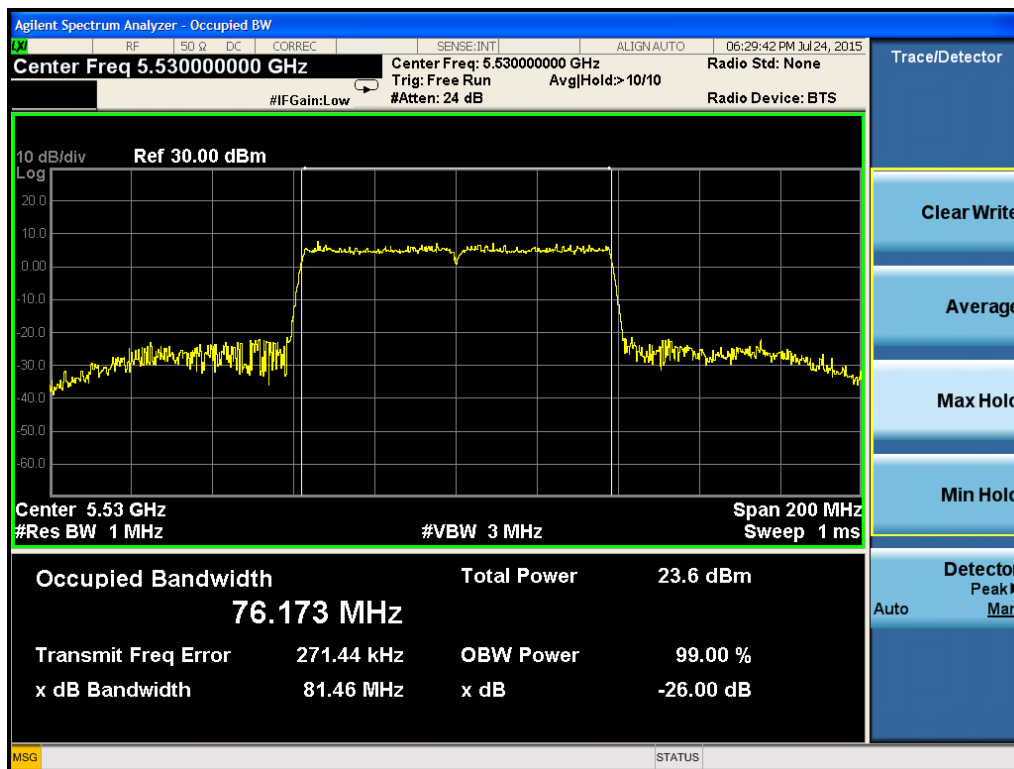


Figure 9-127. 26-dB Emission Bandwidth Chain B 802.11ac VHT80 (Ch. 106)

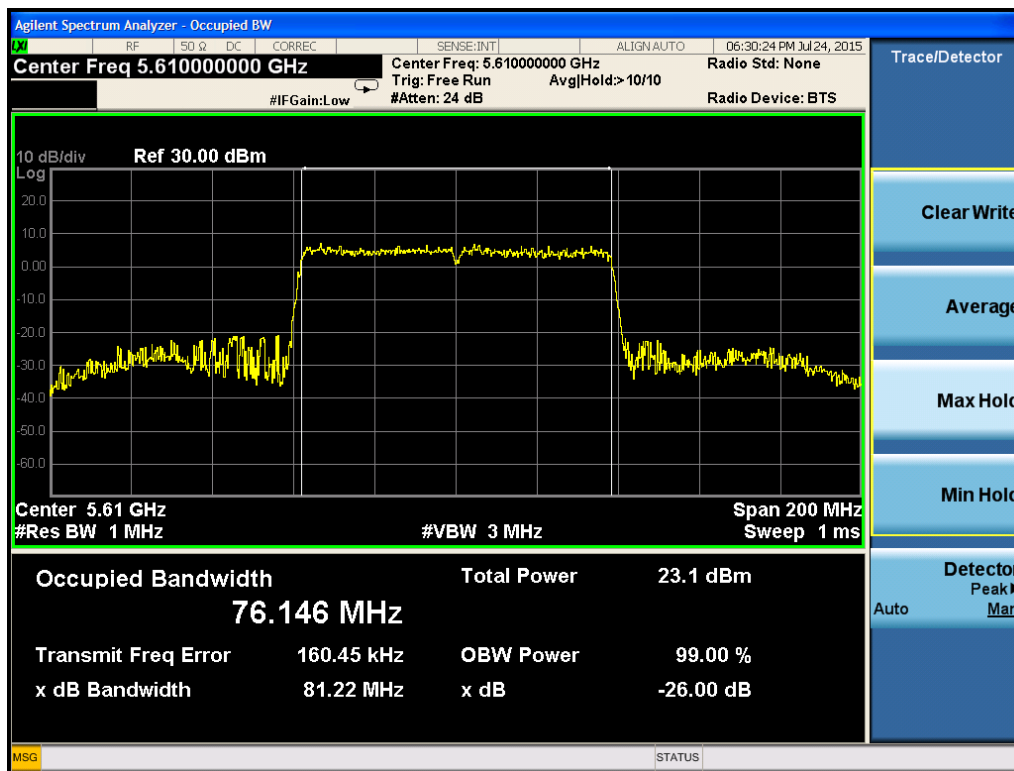


Figure 9-128. 26-dB Emission Bandwidth Chain B 802.11ac VHT80 (Ch. 122)

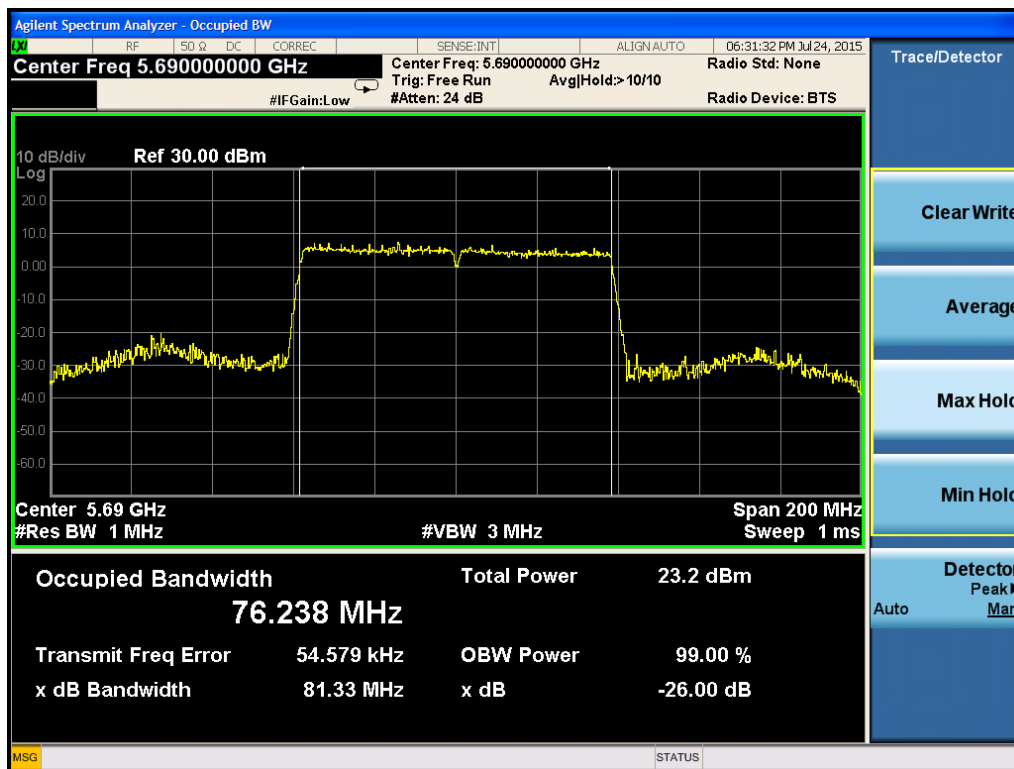


Figure 9-129. 26-dB Emission Bandwidth Chain B 802.11ac VHT80 (Ch. 138)

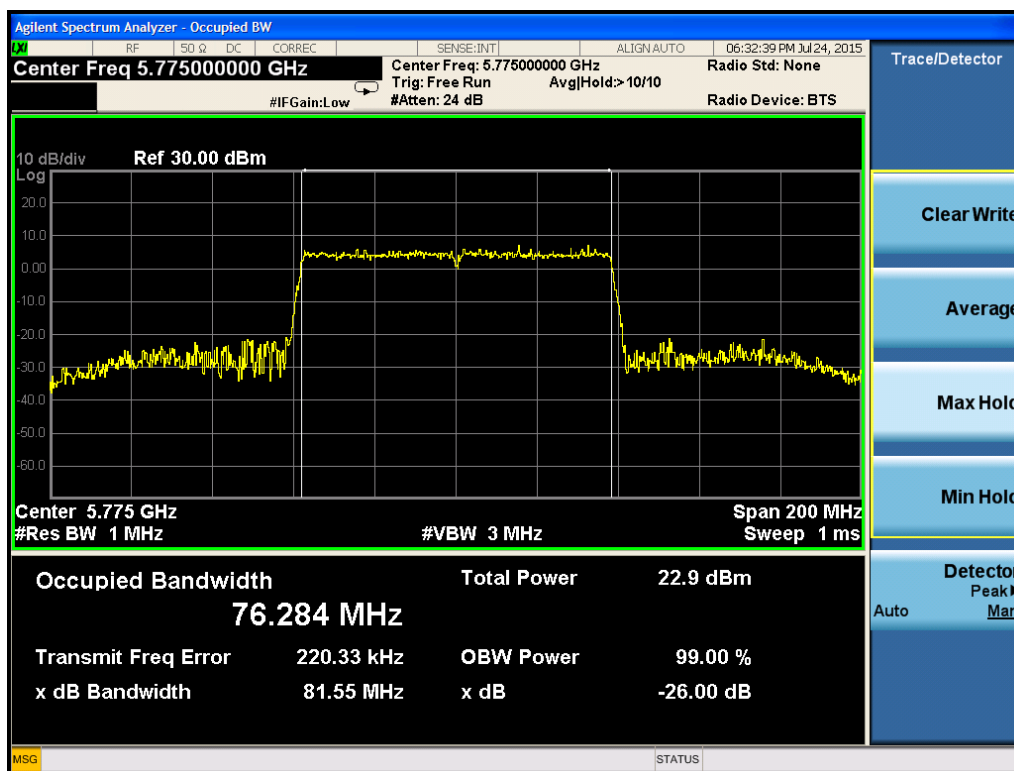


Figure 9-130. 26-dB Emission Bandwidth Chain B 802.11ac VHT80 (Ch. 155)

9.2 99% Occupied Bandwidth

9.2.1 Test Requirement:

Industry Canada RSS-247 [6.2]

9.2.2 Test Method:

Measurements were performed according to the procedures defined in KDB 789033- General UNII Test Procedures New Rules v01 and ANSI C63.10 2013.

Spectrum Analyzer settings:

Set the center frequency to the nominal EUT channel center frequency

Span = 1.5 to 5.0 time the 99% Occupied Bandwidth

RBW = 1% to 5% of the 99% Occupied Bandwidth

VBW $\geq 3 \times$ RBW

Trace Mode= Peak Detector (Max Hold)

Sweep time= Auto

The built-in functionality of the Spectrum Analyzer is used to measure the 99% Occupied Bandwidth.

9.2.3 Limits:

The 99% Occupied Bandwidth measurements are required for power limits, other measurements and reporting purposes

9.2.4 Test Results:

Pass.

9.2.5 Test Data:

9.2.5.1 Chain A 802.11a 99% Occupied Bandwidth

Chain A 802.11a 99% Occupied Bandwidth		
Channel No.	Frequency (MHz)	99% Occupied Bandwidth (MHz)
36	5180	16.615
44	5220	16.653
48	5240	16.626
52	5260	16.618
60	5300	16.612
64	5320	16.630
100	5500	16.631
116	5580	16.607
140	5700	16.622
144	5720	16.678
149	5745	16.725
157	5785	16.678
165	5825	16.709

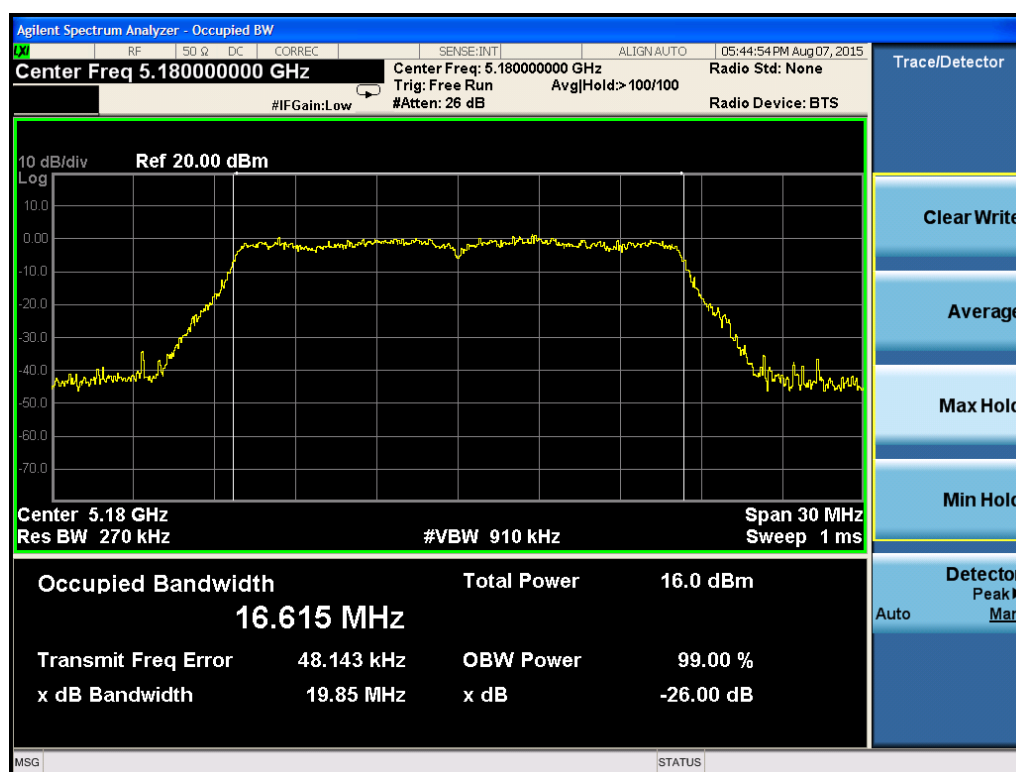


Figure 9-131. 99% Occupied Bandwidth Chain A 802.11a (Ch. 36)

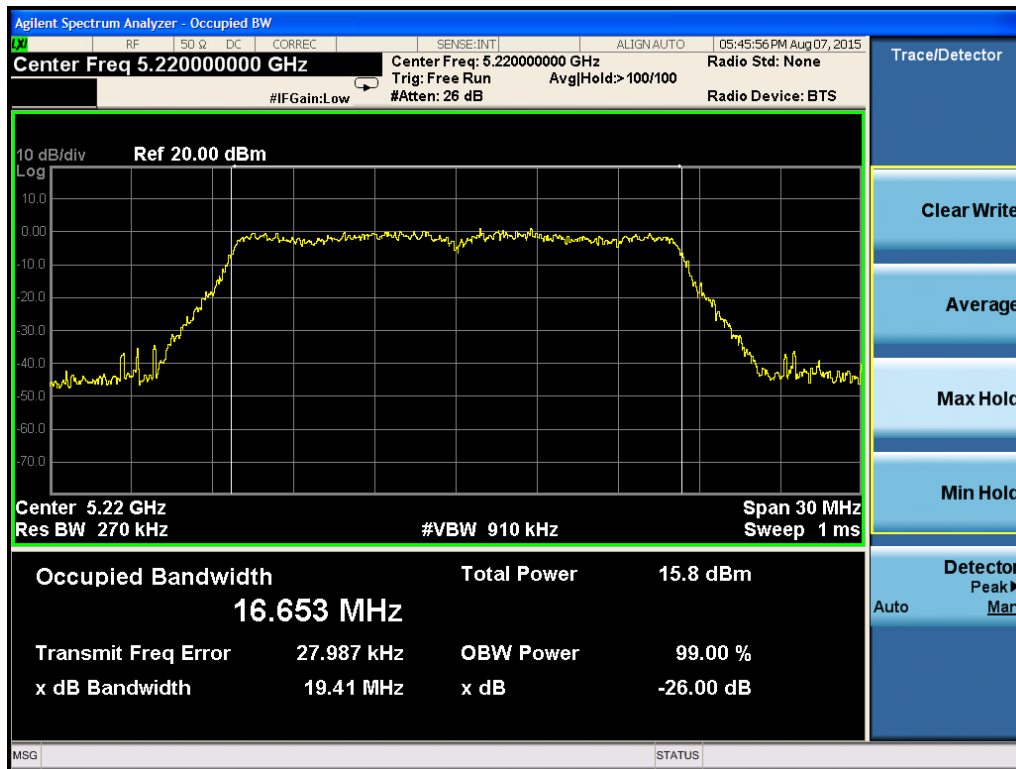


Figure 9-132. 99% Occupied Bandwidth Chain A 802.11a (Ch. 44)

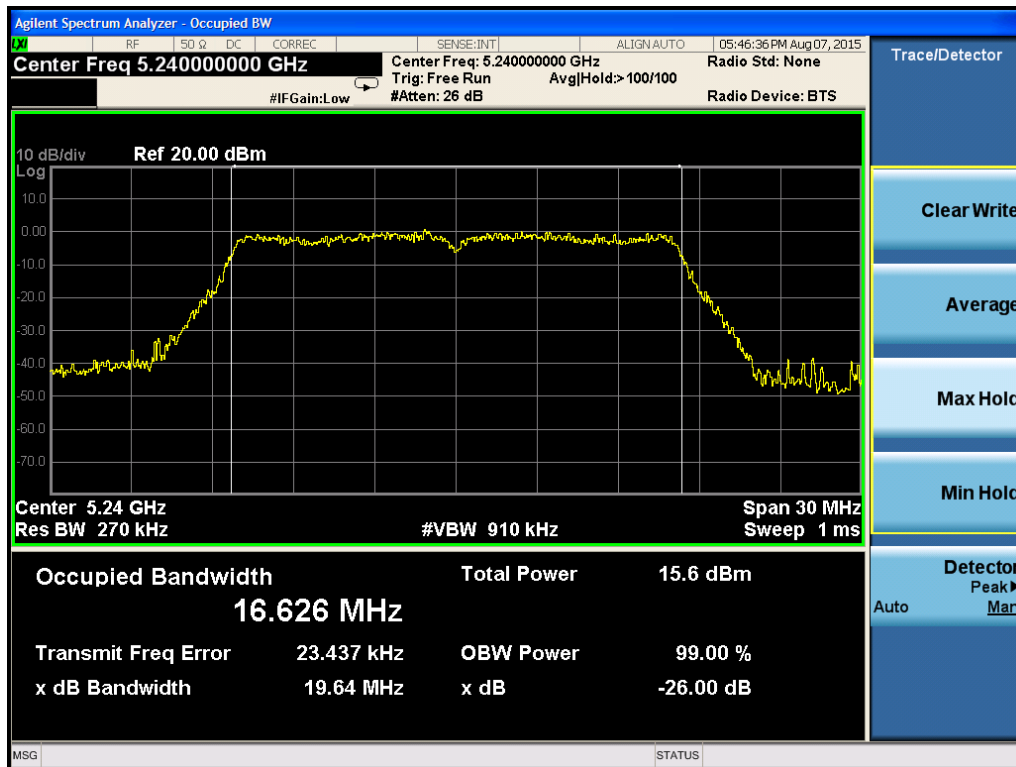


Figure 9-133. 99% Occupied Bandwidth Chain A 802.11a (Ch. 48)

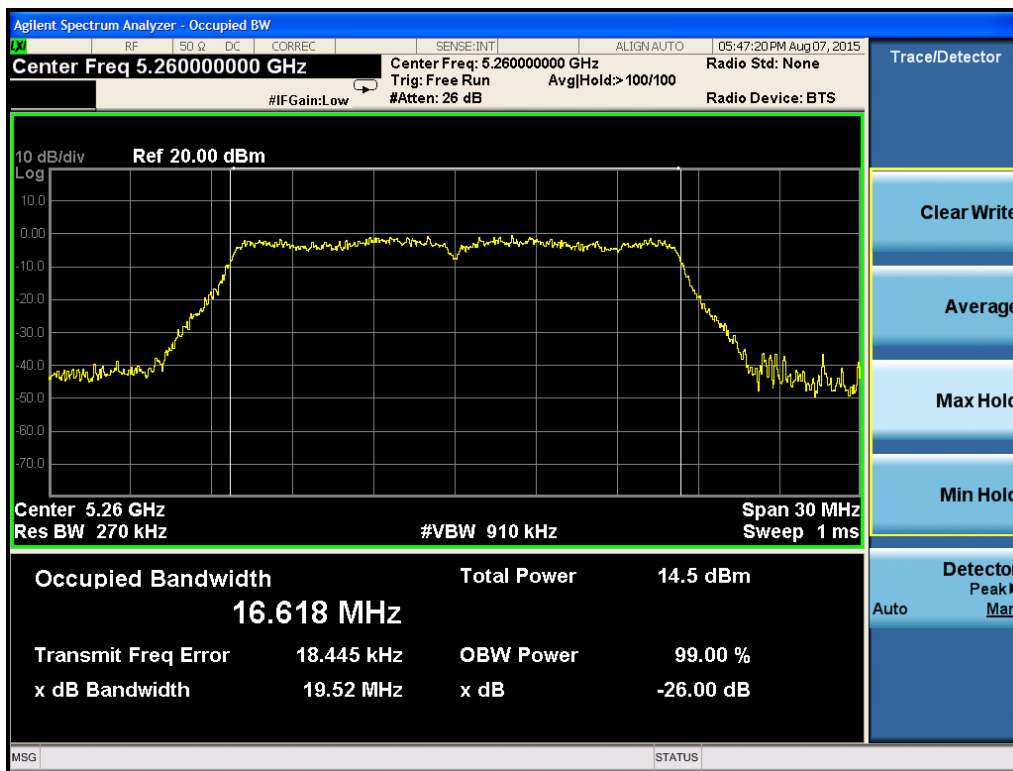


Figure 9-134. 99% Occupied Bandwidth Chain A 802.11a (Ch. 52)

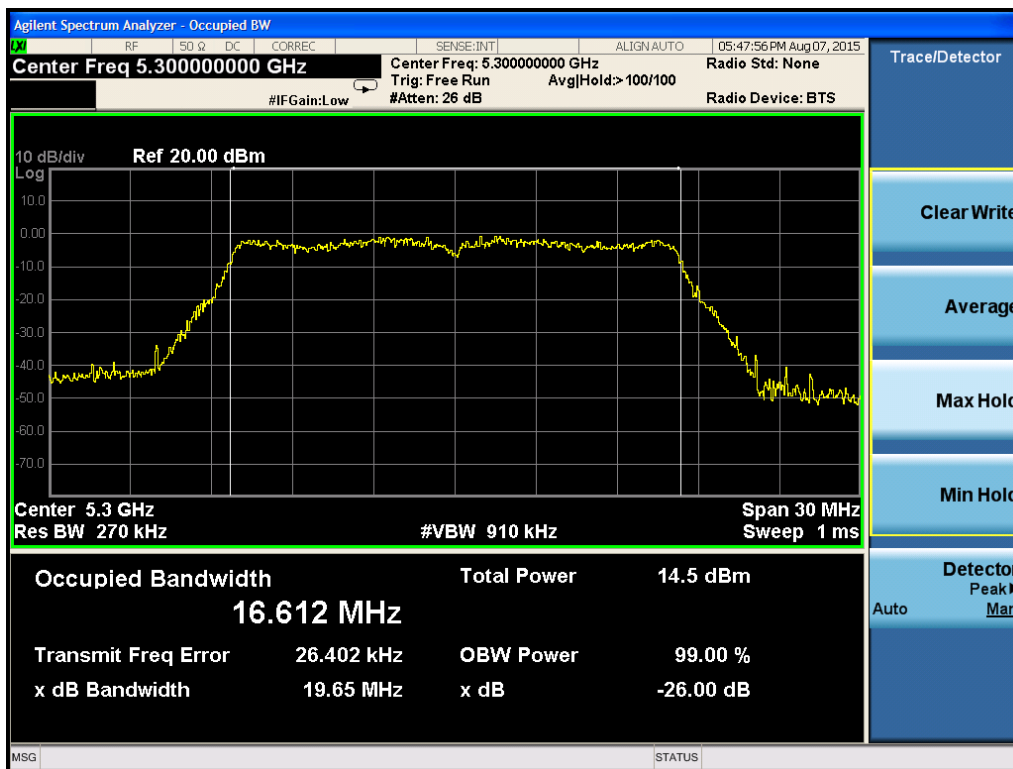


Figure 9-135. 99% Occupied Bandwidth Chain A 802.11a (Ch. 60)

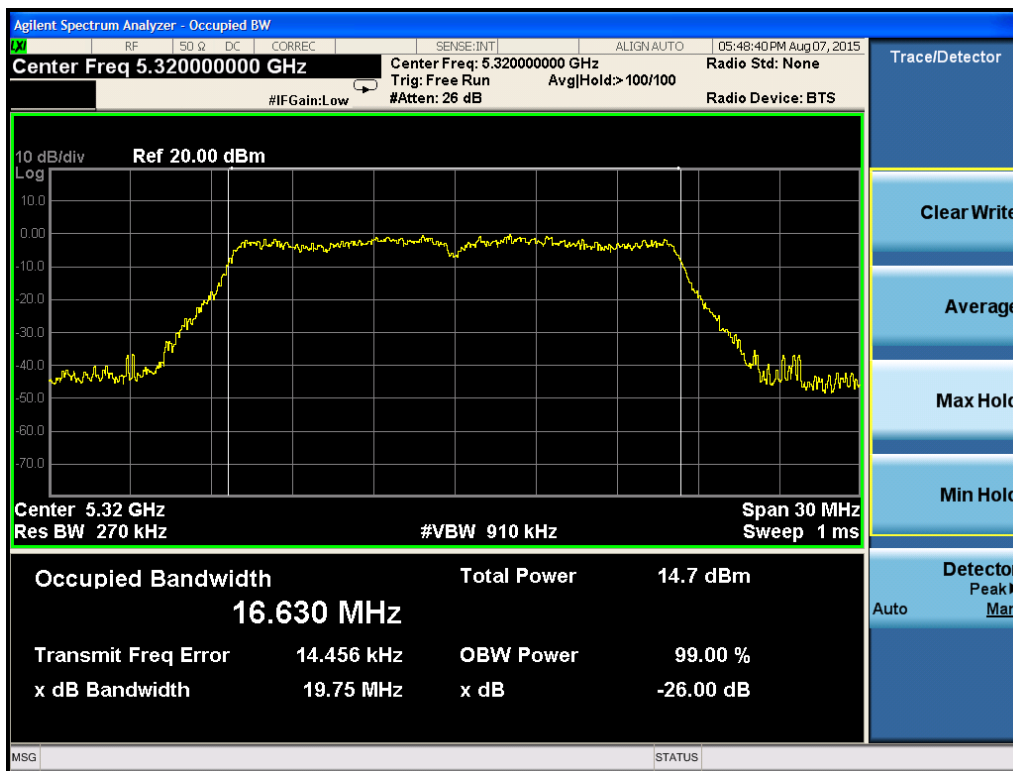


Figure 9-136. 99% Occupied Bandwidth Chain A 802.11a (Ch. 64)

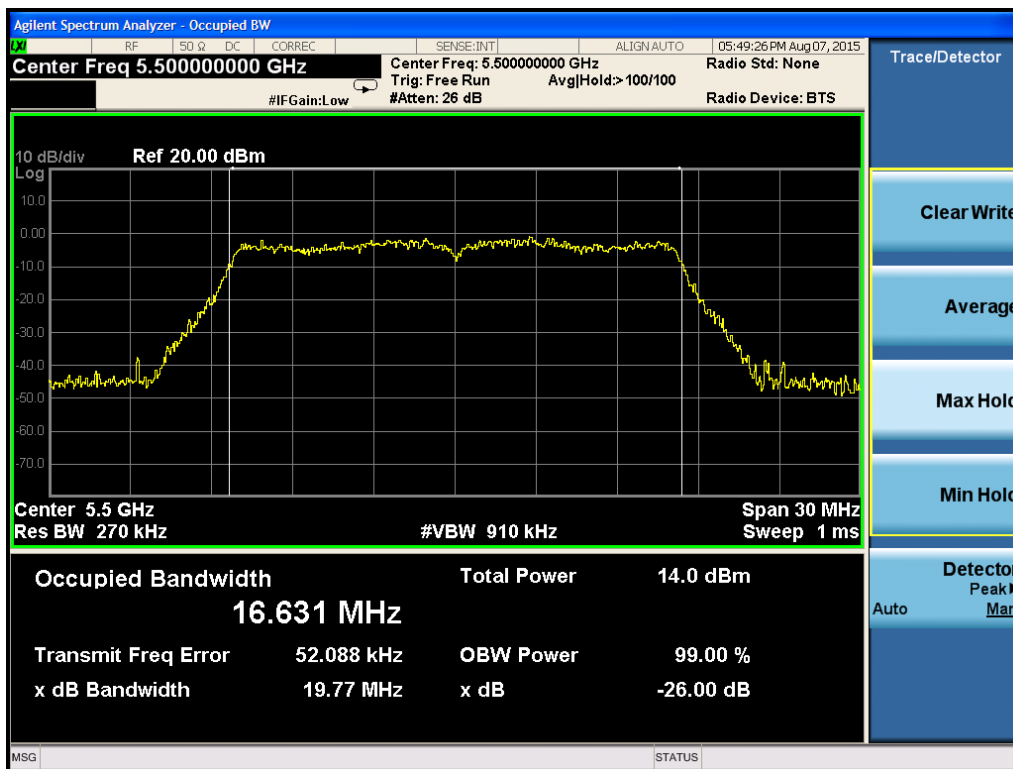


Figure 9-137. 99% Occupied Bandwidth Chain A 802.11a (Ch. 100)

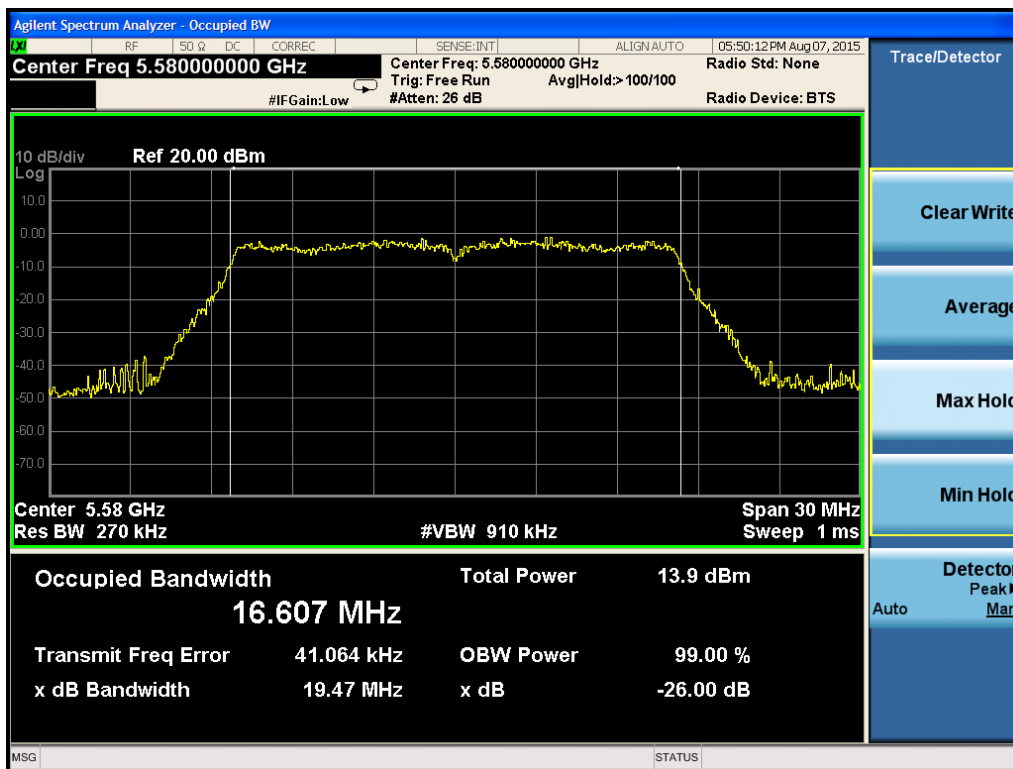


Figure 9-138. 99% Occupied Bandwidth Chain A 802.11a (Ch. 116)

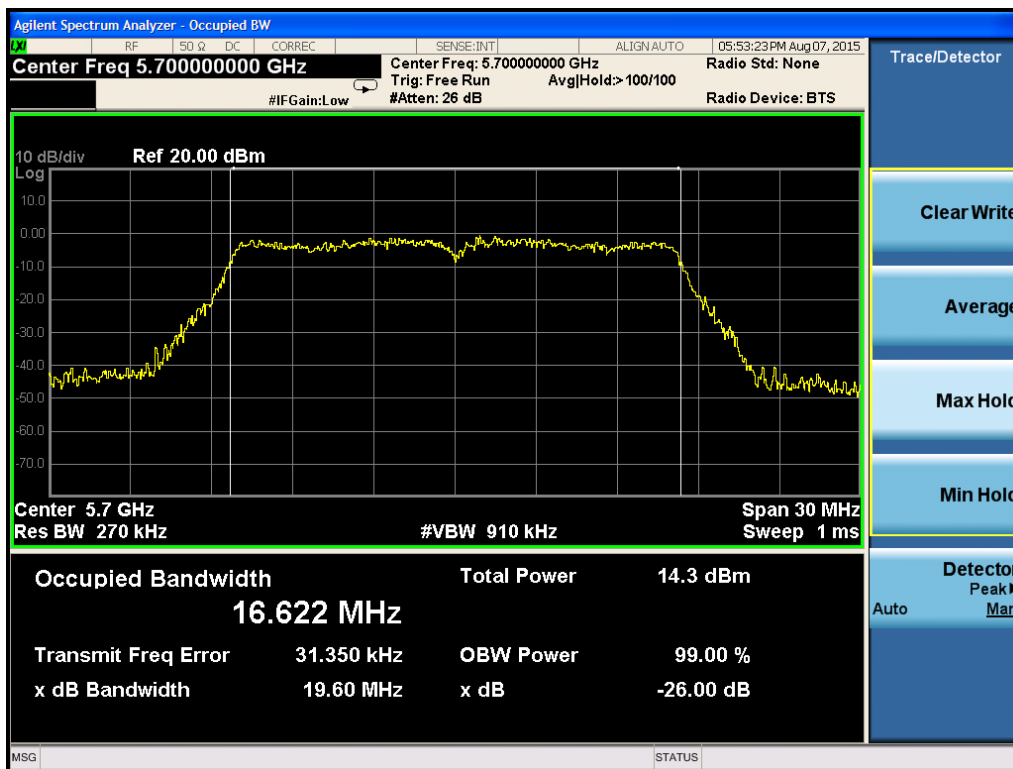


Figure 9-139. 99% Occupied Bandwidth Chain A 802.11a (Ch. 140)

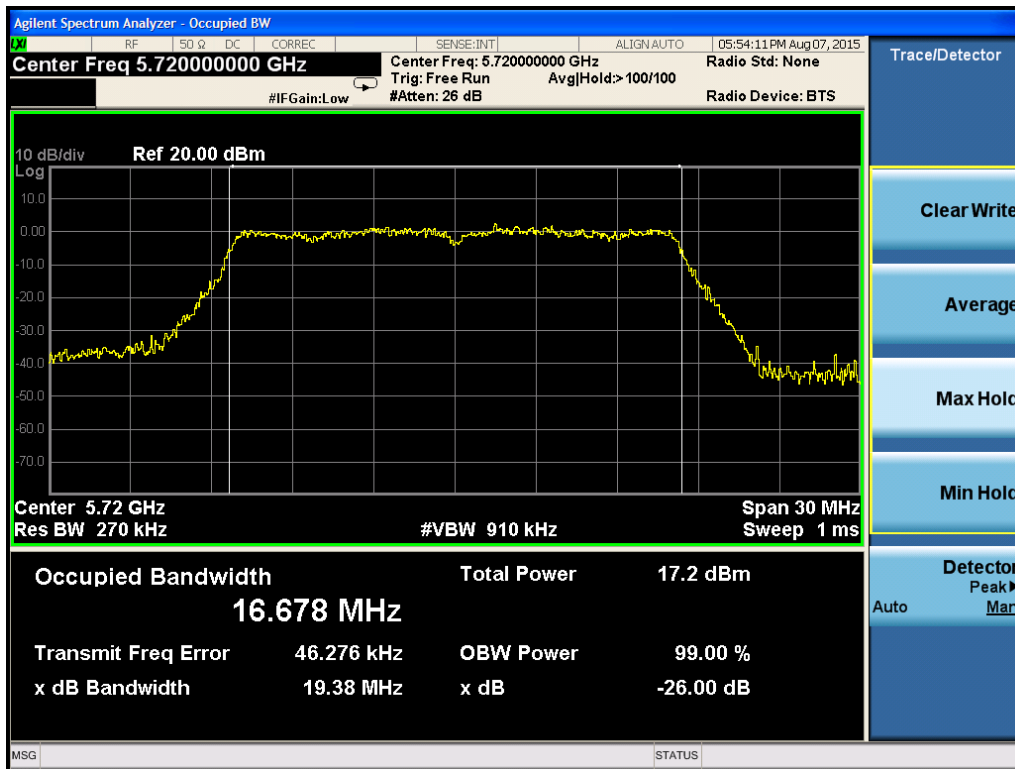


Figure 9-140. 99% Occupied Bandwidth Chain A 802.11a (Ch. 144)

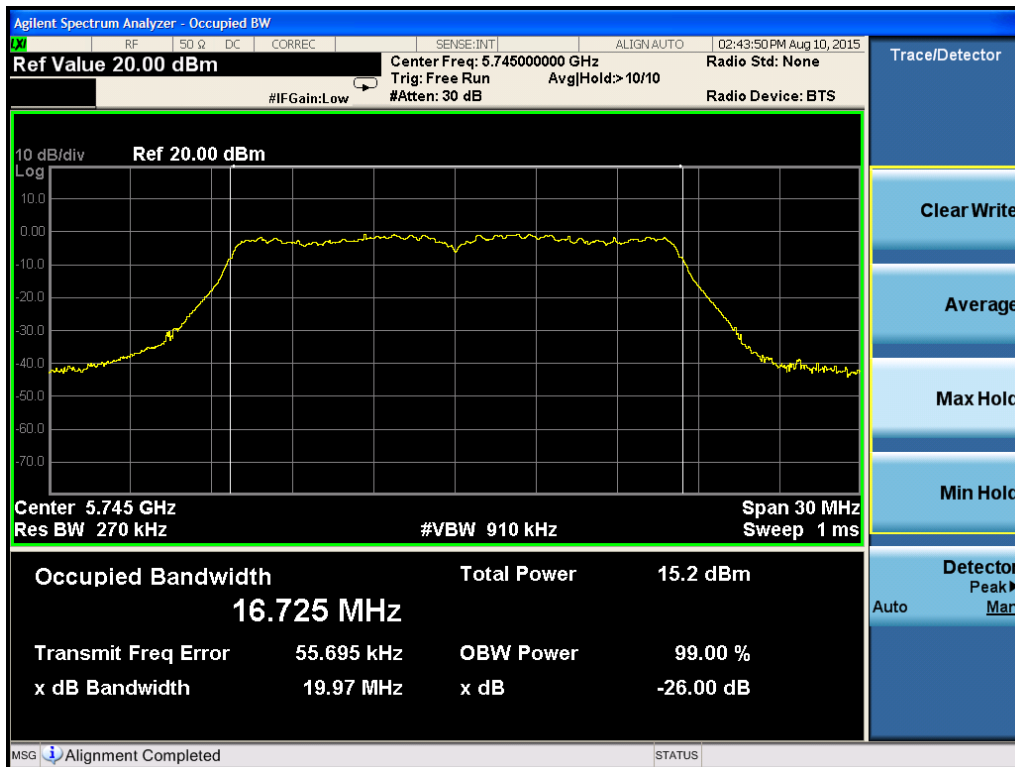


Figure 9-141. 99% Occupied Bandwidth Chain A 802.11a (Ch. 149)

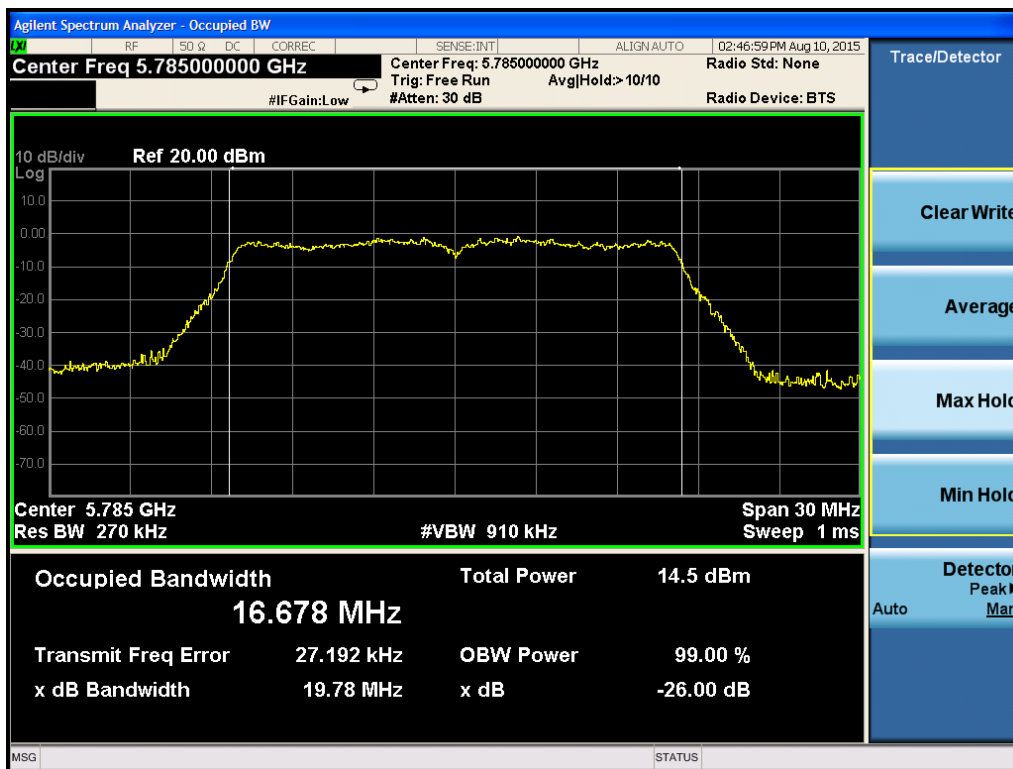


Figure 9-142. 99% Occupied Bandwidth Chain A 802.11a (Ch. 157)

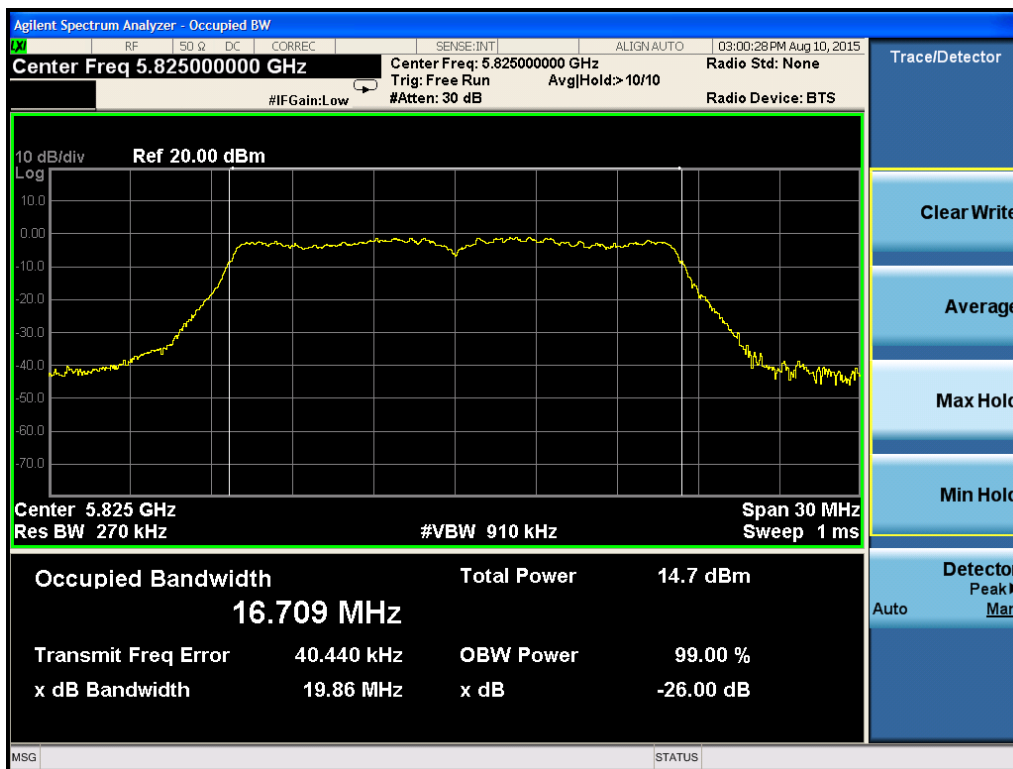


Figure 9-143. 99% Occupied Bandwidth Chain A 802.11a (Ch. 165)