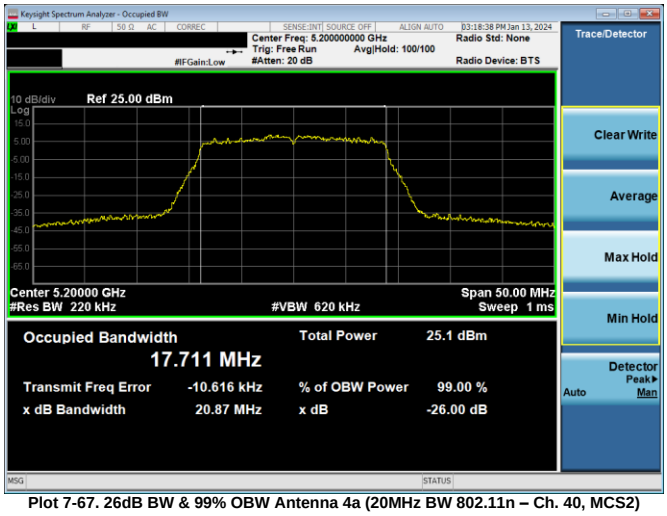
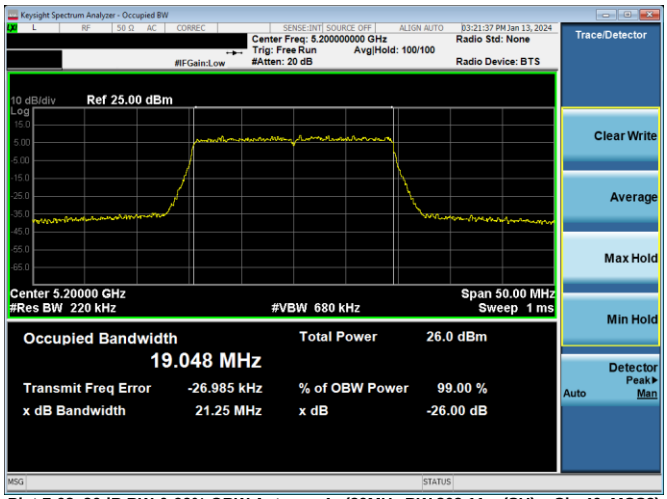
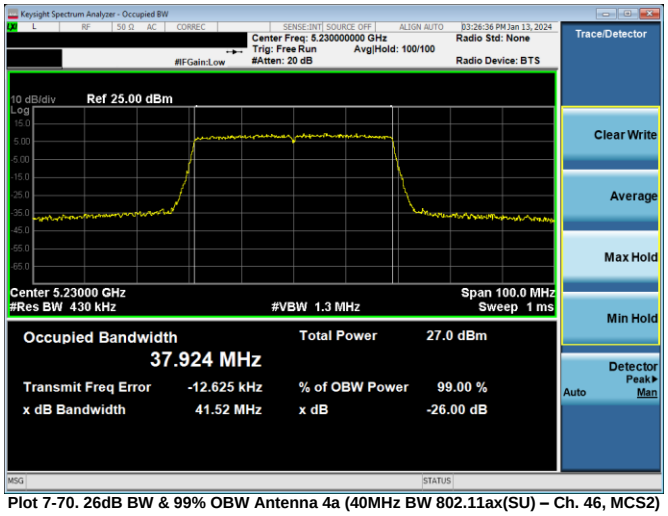


Plot 7-67. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 40, MCS2)

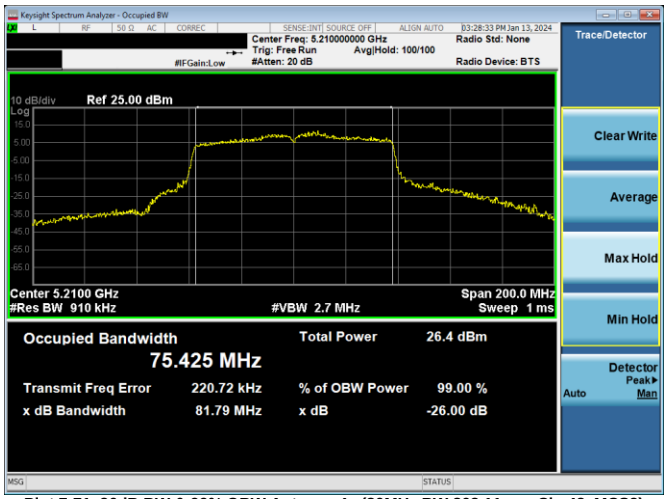


Plot 7-68. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 40, MCS2)

Plot 7-69. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 46, MCS2)



Plot 7-70. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 46, MCS2)



Plot 7-71. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 42, MCS2)

Plot 7-72. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 42, MCS2)

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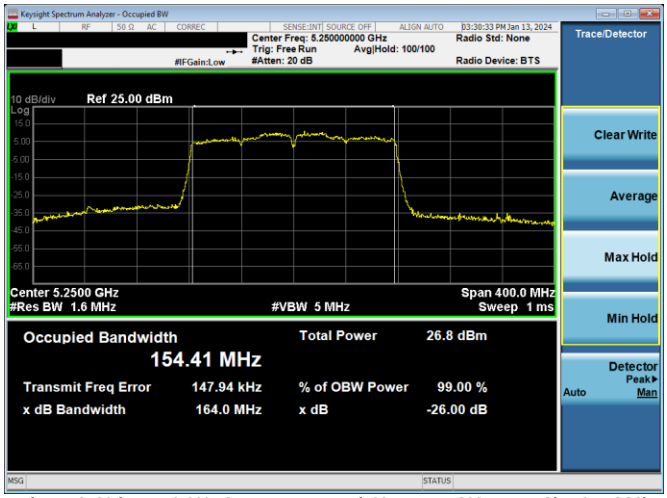
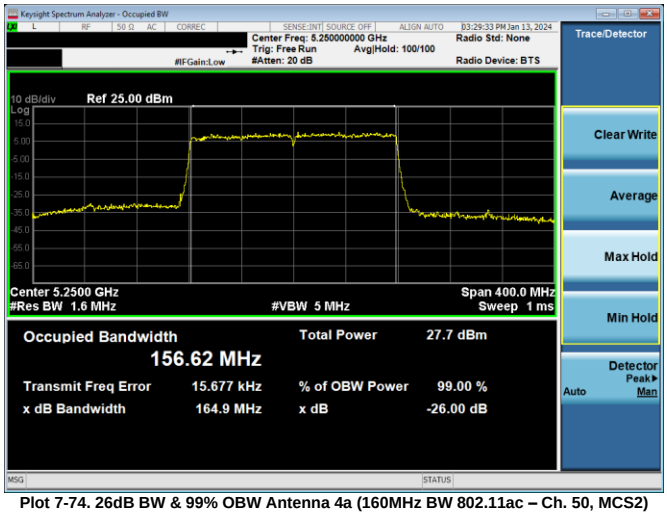
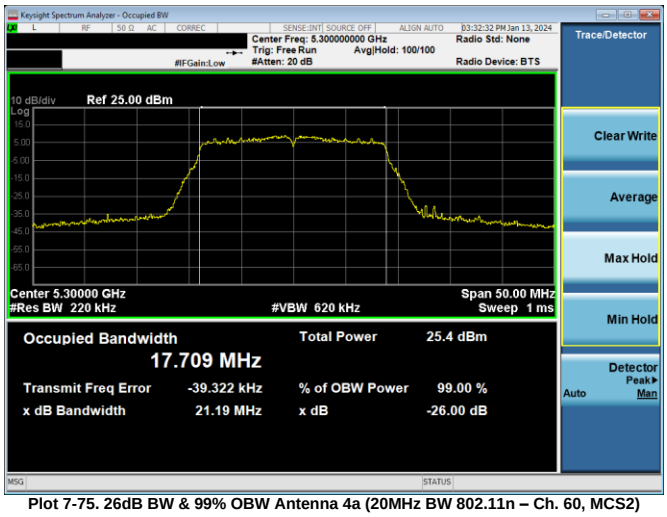


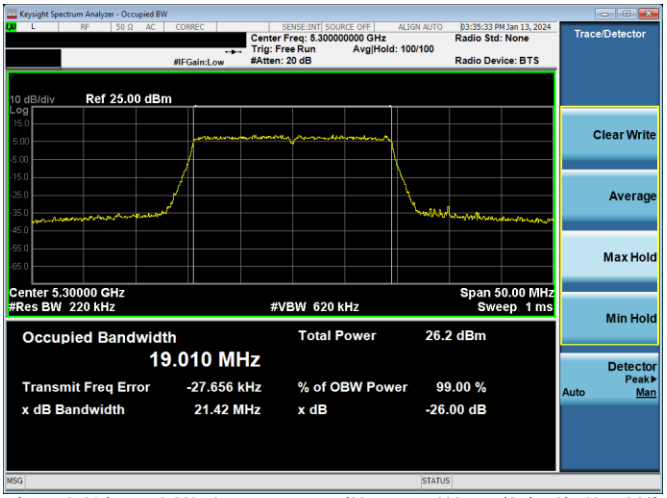
Plot 7-73. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 50, MCS2)



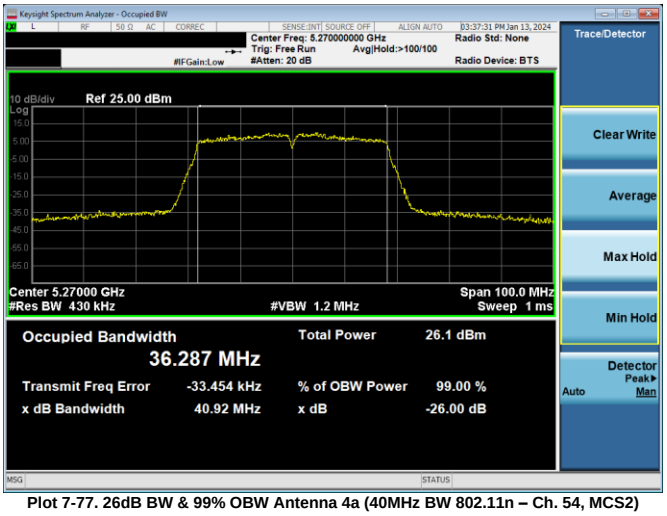
Plot 7-74. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 50, MCS2)



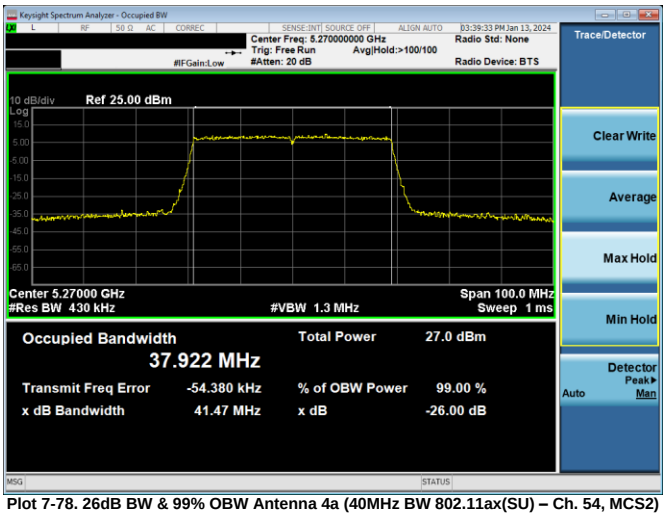
Plot 7-75. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 60, MCS2)



Plot 7-76. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 60, MCS2)



Plot 7-77. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 54, MCS2)



Plot 7-78. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 54, MCS2)

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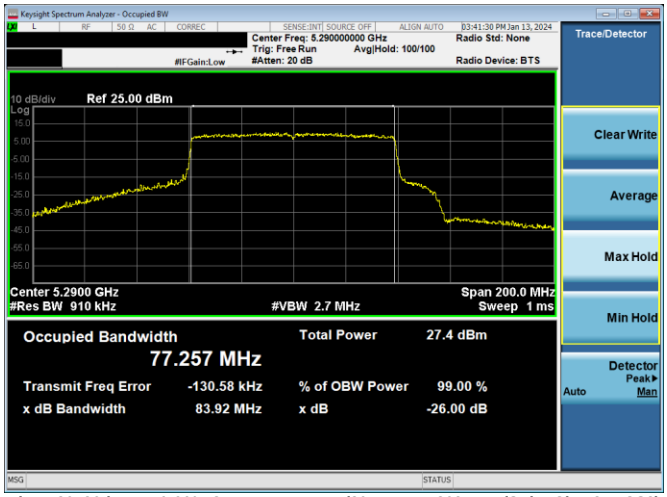
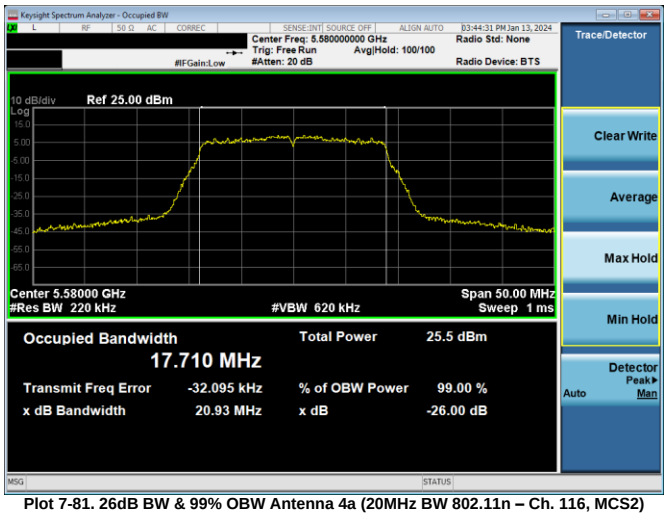
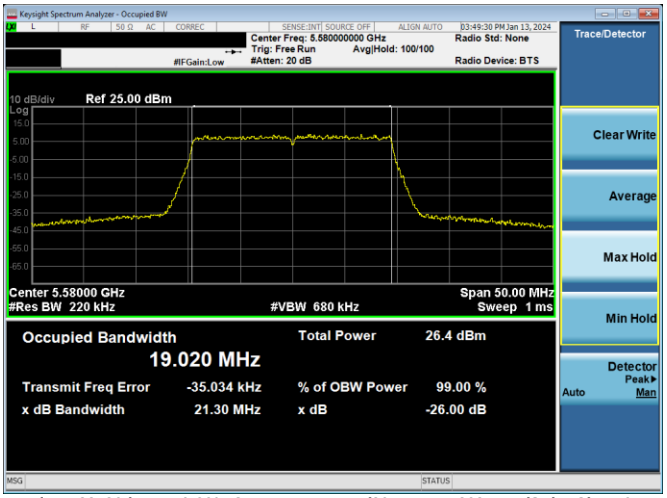
Plot 7-79. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 58, MCS2)



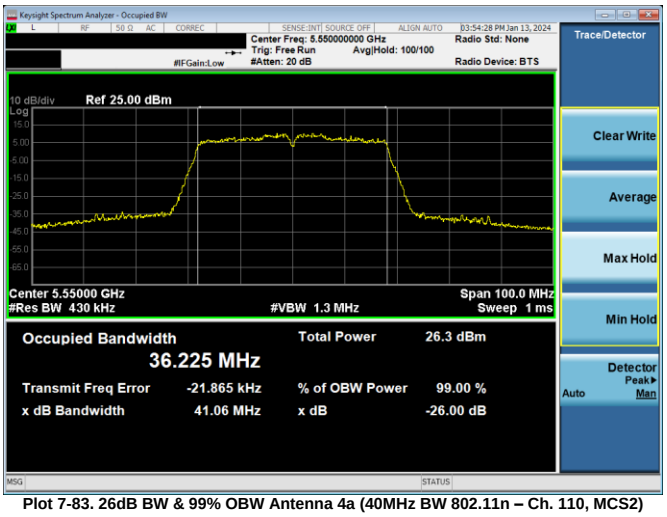
Plot 7-80. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 58, MCS2)



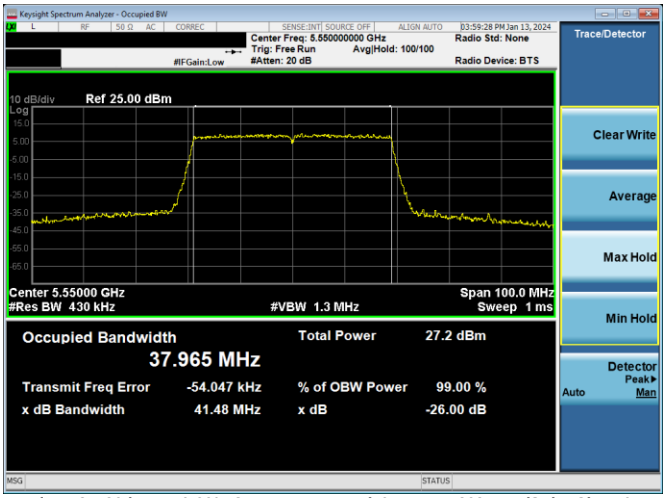
Plot 7-81. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 116, MCS2)



Plot 7-82. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 116, MCS2)



Plot 7-83. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 110, MCS2)



Plot 7-84. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 110, MCS2)

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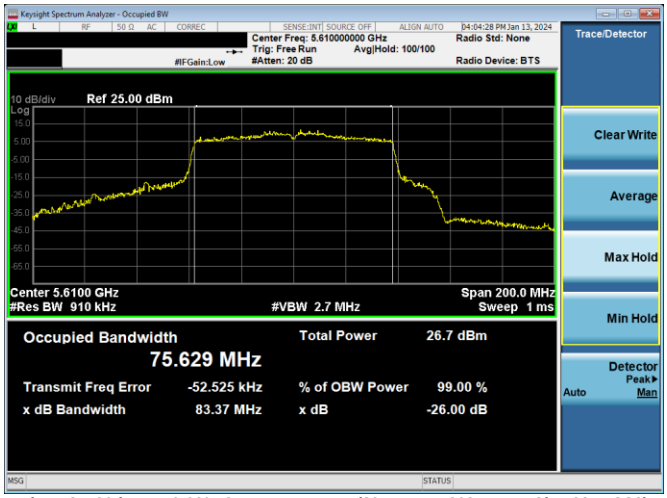
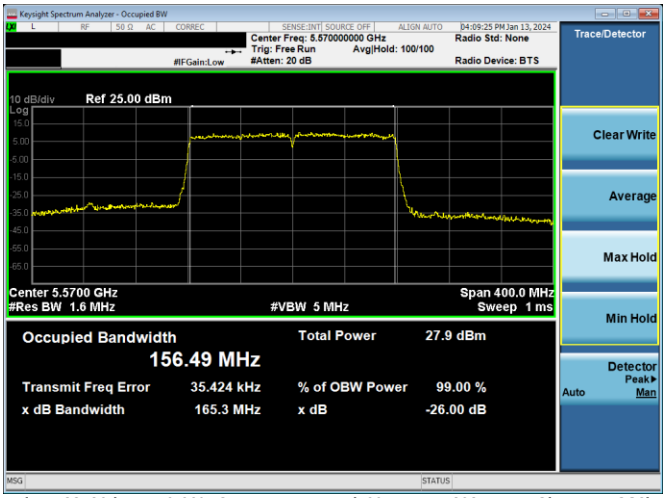
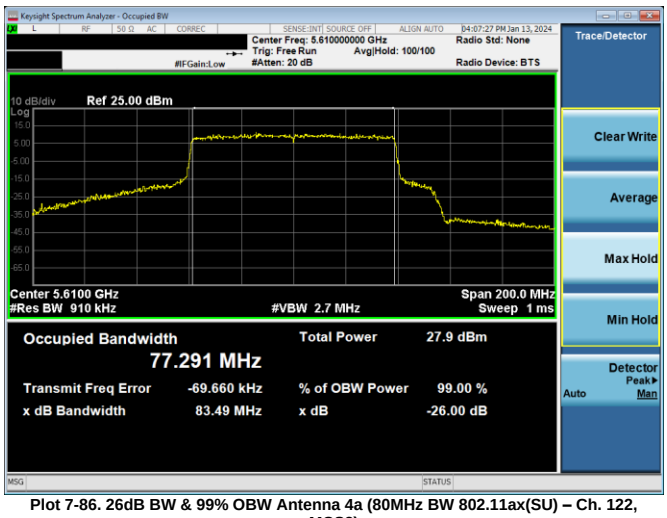


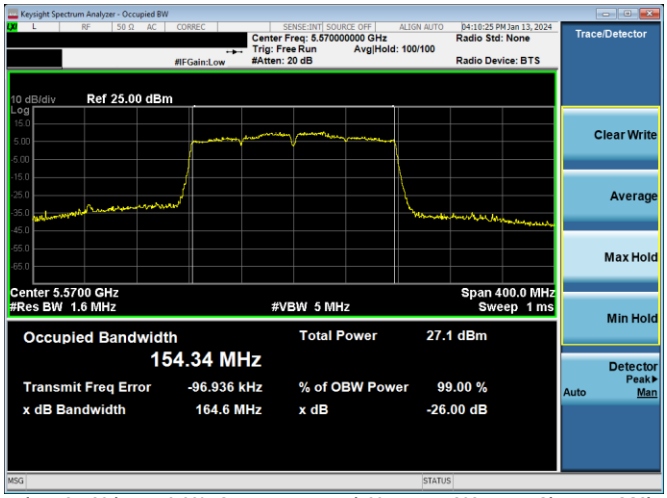
Plot 7-85. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 122, MCS2)



Plot 7-88. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 114, MCS2)



Plot 7-86. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 122, MCS2)



Plot 7-87. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 114, MCS2)

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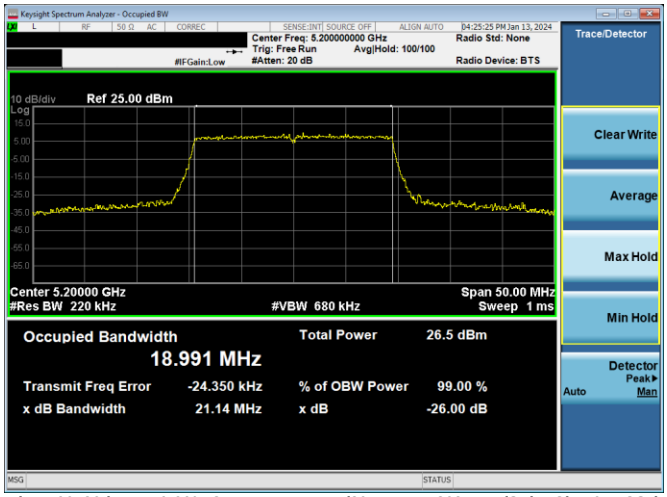
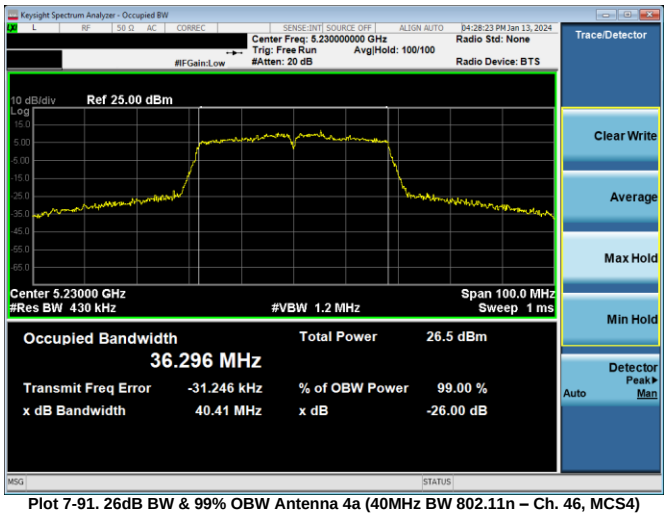
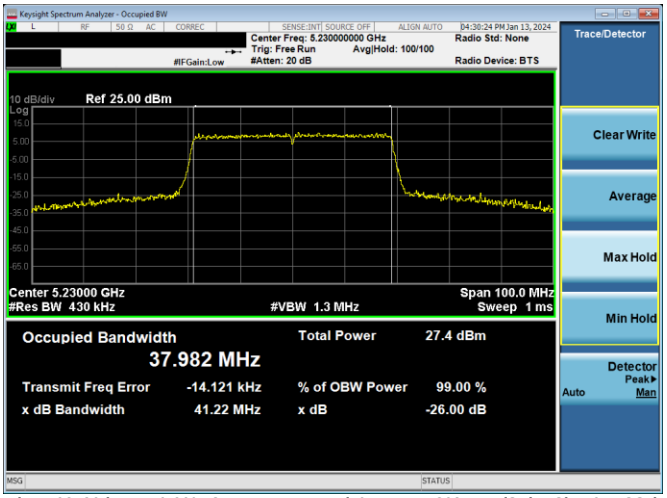
Plot 7-89. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 40, MCS4)



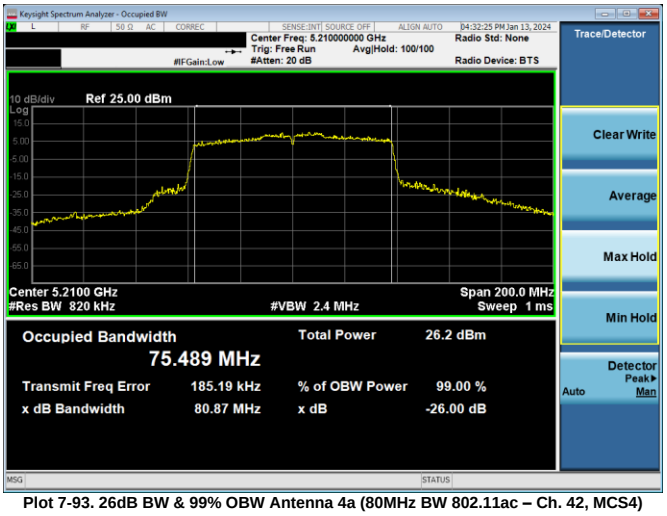
Plot 7-90. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 40, MCS4)



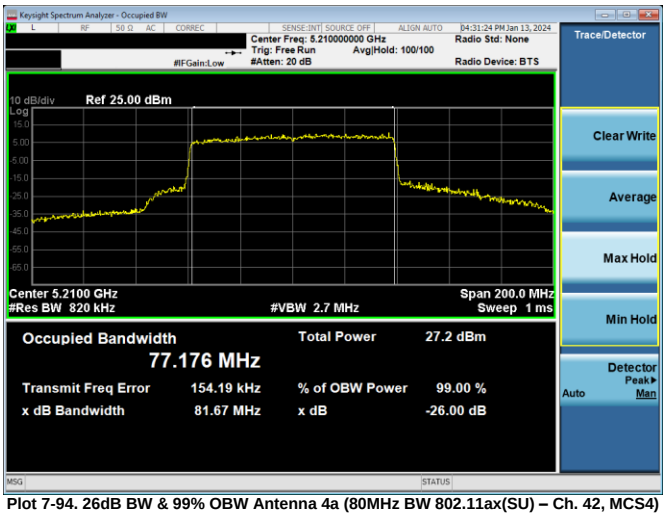
Plot 7-91. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 46, MCS4)



Plot 7-92. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 46, MCS4)



Plot 7-93. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 42, MCS4)



Plot 7-94. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 42, MCS4)

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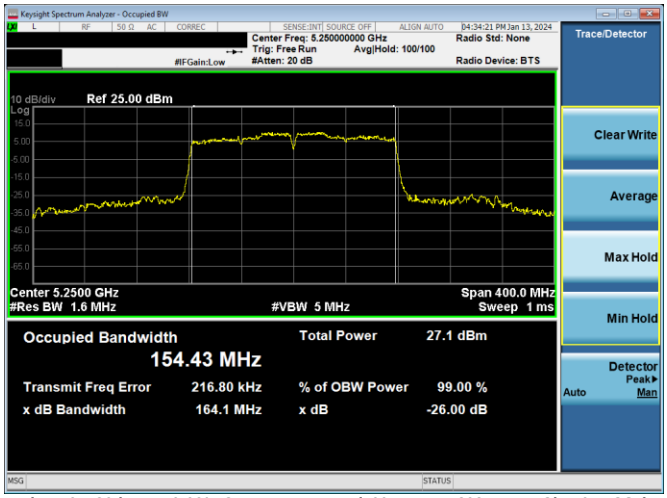
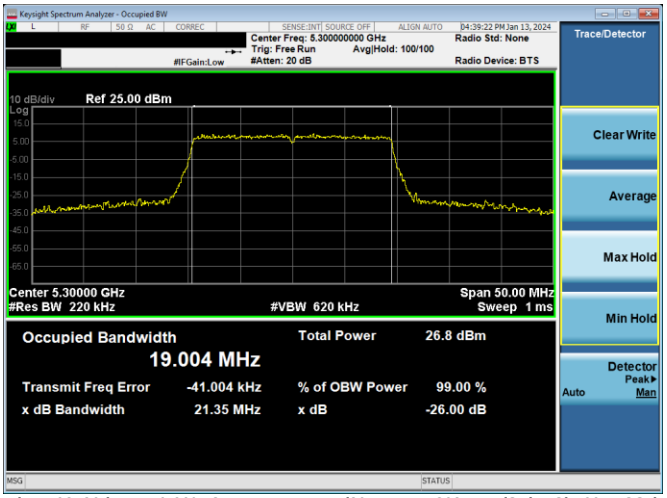
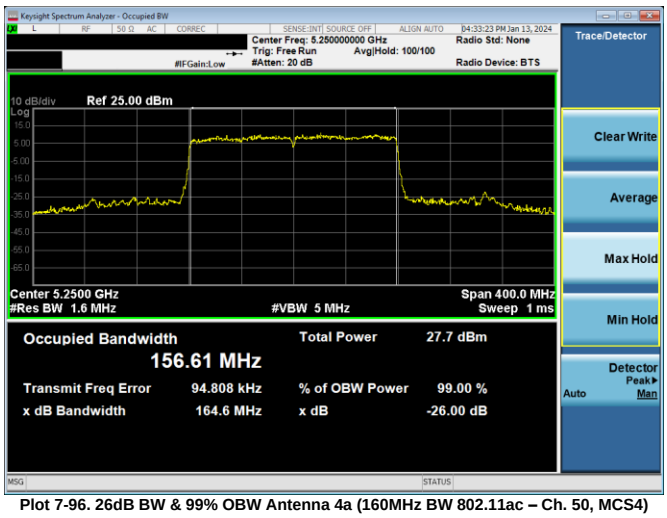


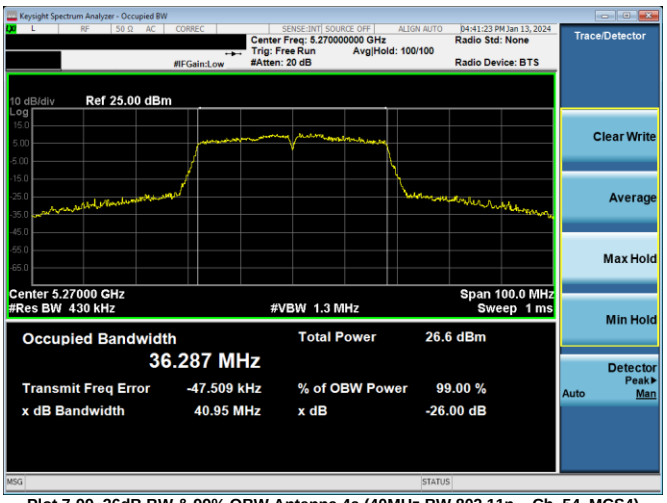
Plot 7-95. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 50, MCS4)



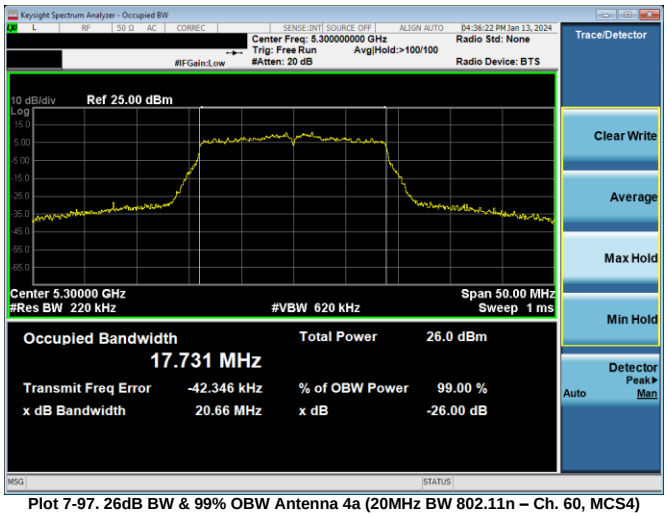
Plot 7-98. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 60, MCS4)



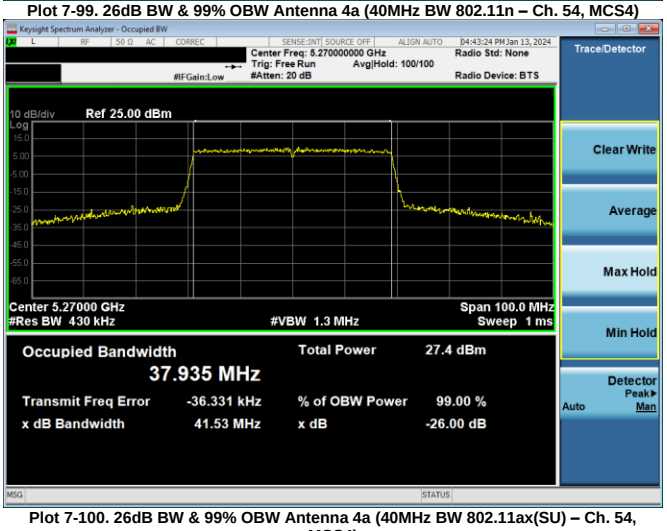
Plot 7-96. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 50, MCS4)



Plot 7-99. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 54, MCS4)



Plot 7-97. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 60, MCS4)



Plot 7-100. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 54, MCS4)

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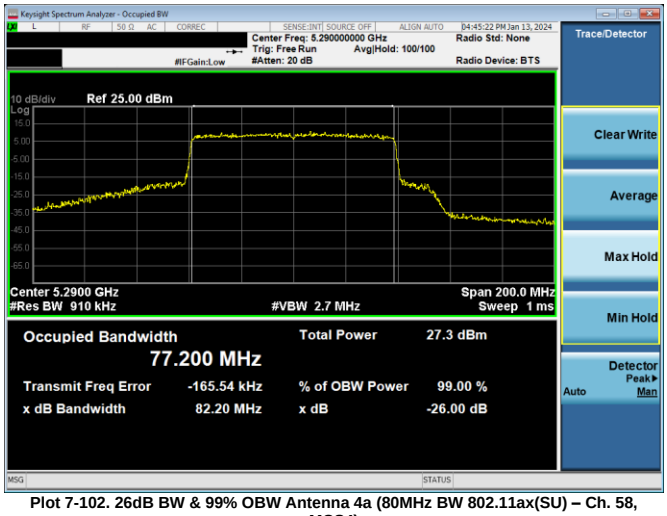
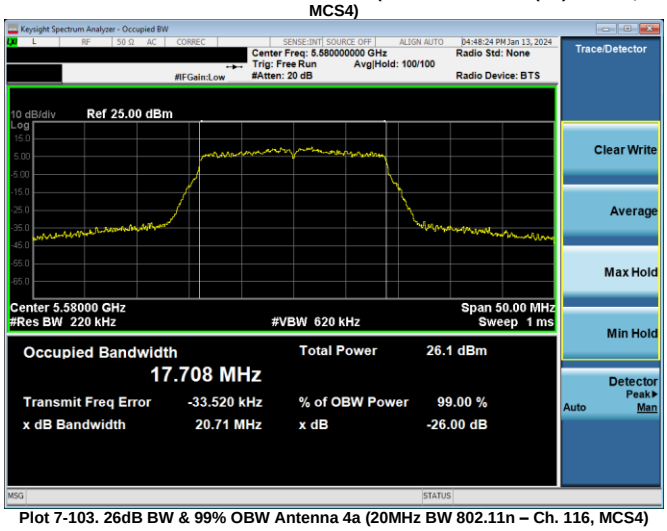
Plot 7-101. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 58, MCS4)

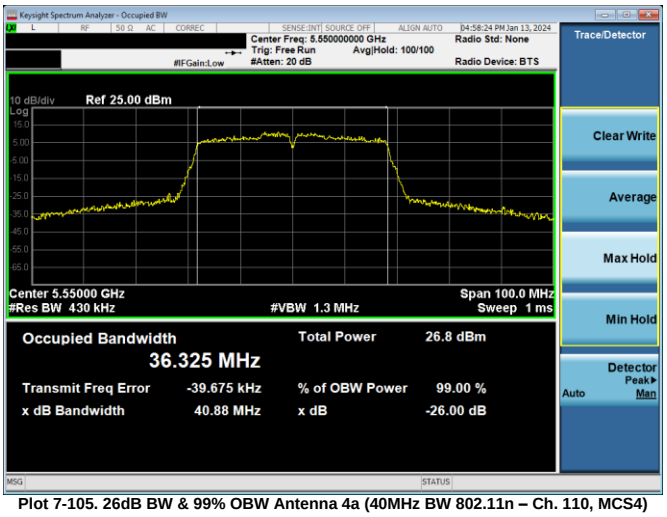


Plot 7-102. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 58, MCS4)

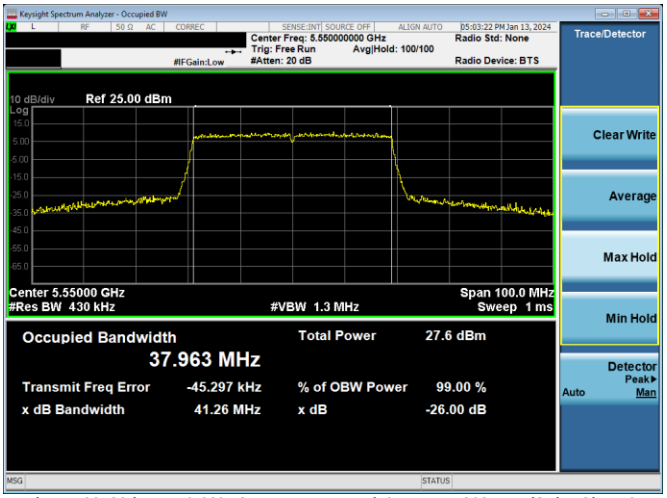


Plot 7-103. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 116, MCS4)

Plot 7-104. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 116, MCS4



Plot 7-105. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 110, MCS4)



Plot 7-106. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 110, MCS4)

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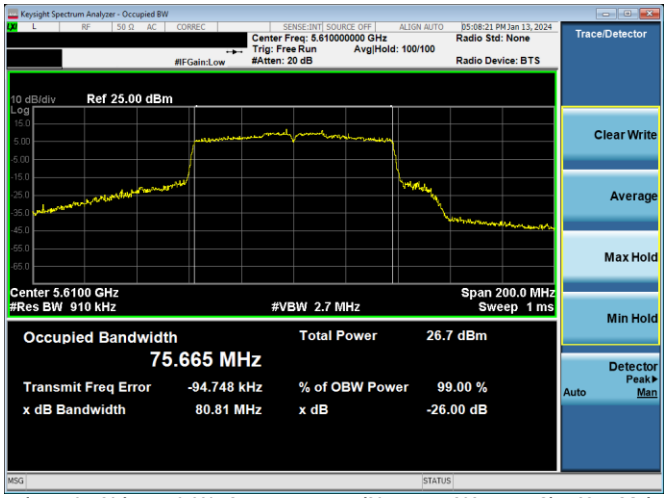
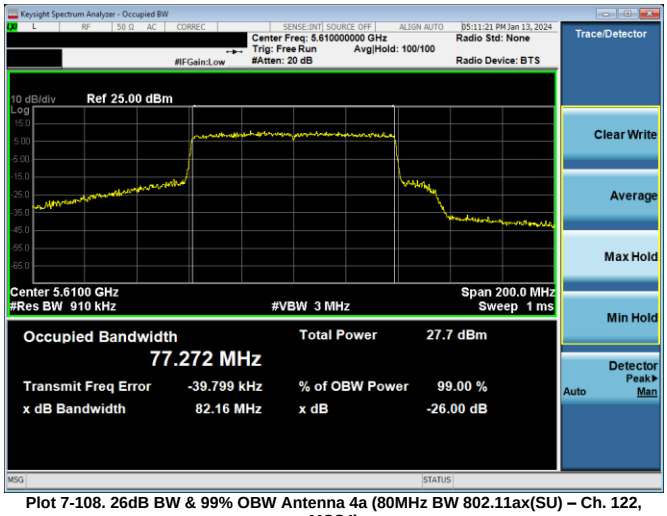
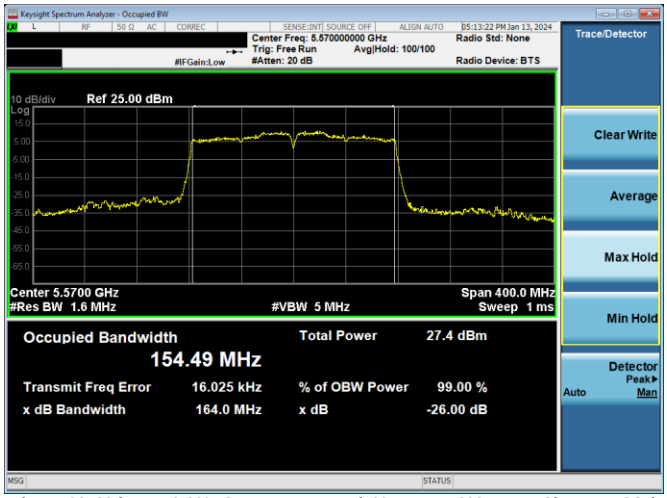


Plot 7-107. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 122, MCS4)



Plot 7-108. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 122, MCS4)



Plot 7-109. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 114, MCS4)

Plot 7-110. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 114, MCS4)

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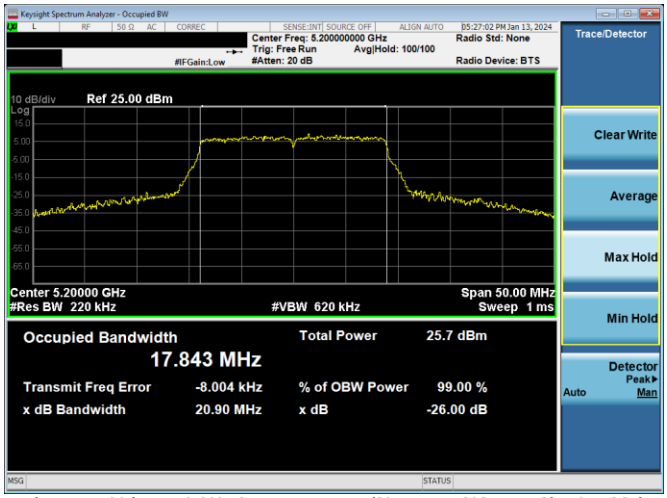
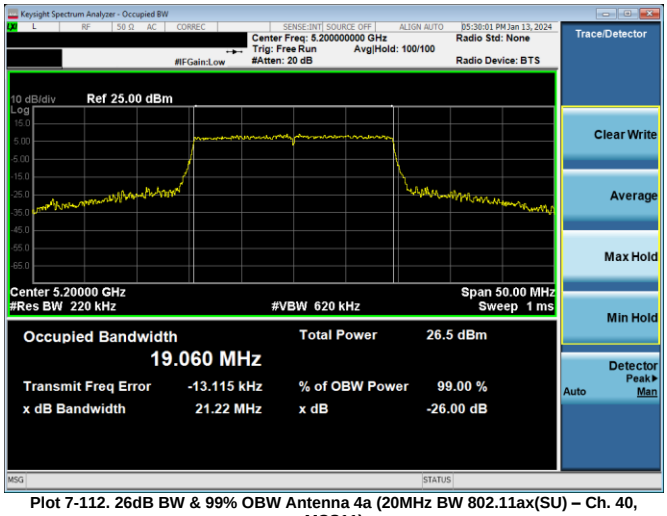
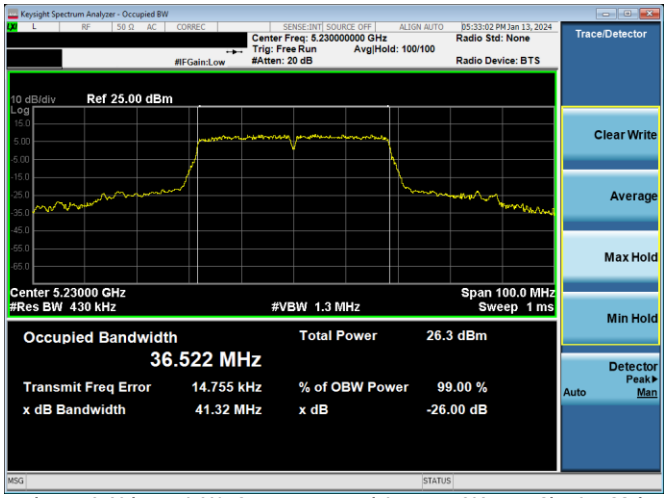


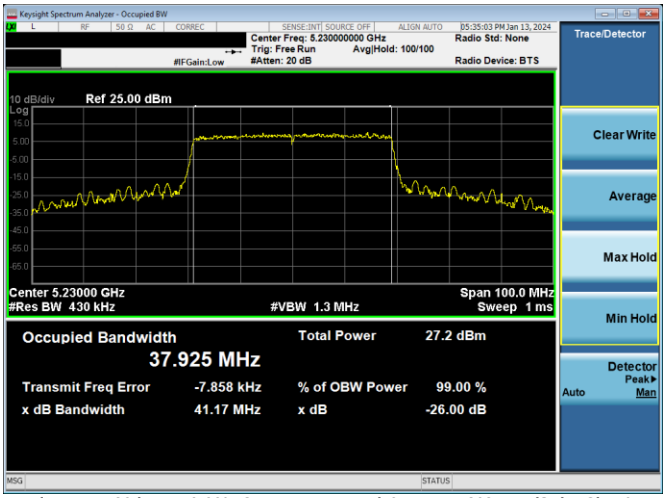
Plot 7-111. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 40, MCS7)



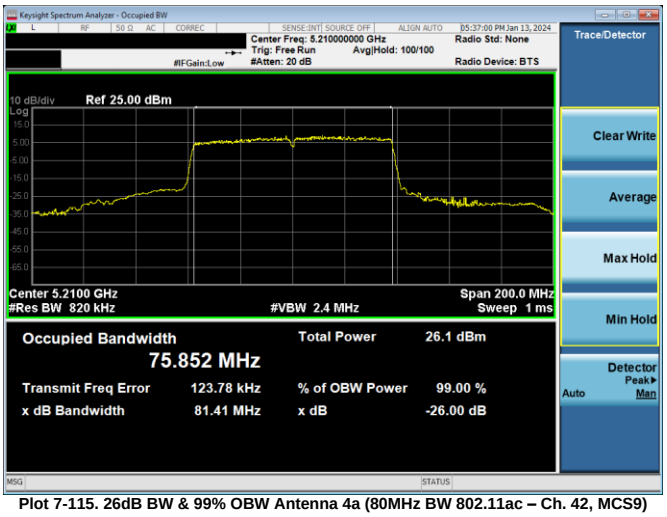
Plot 7-112. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 40, MCS11)



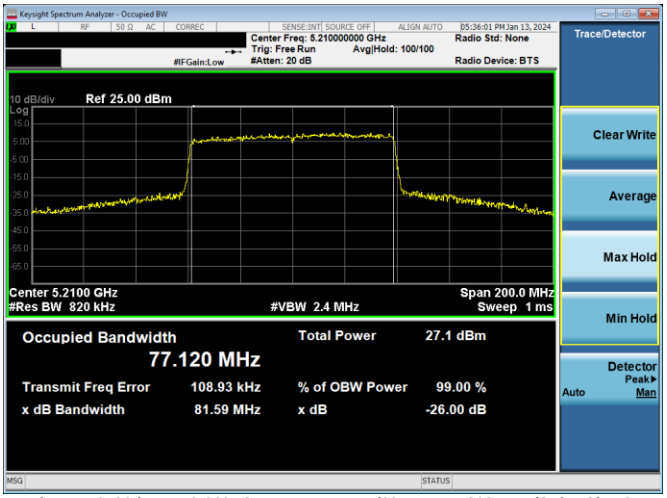
Plot 7-113. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 46, MCS7)



Plot 7-114. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 46, MCS11)



Plot 7-115. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 42, MCS9)



Plot 7-116. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 42, MCS11)

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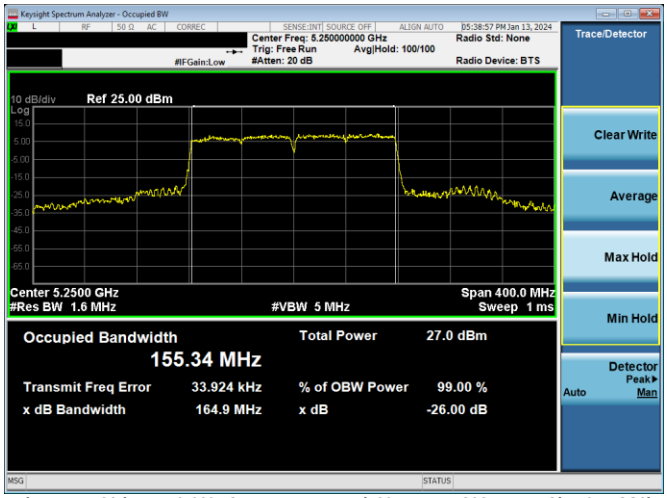
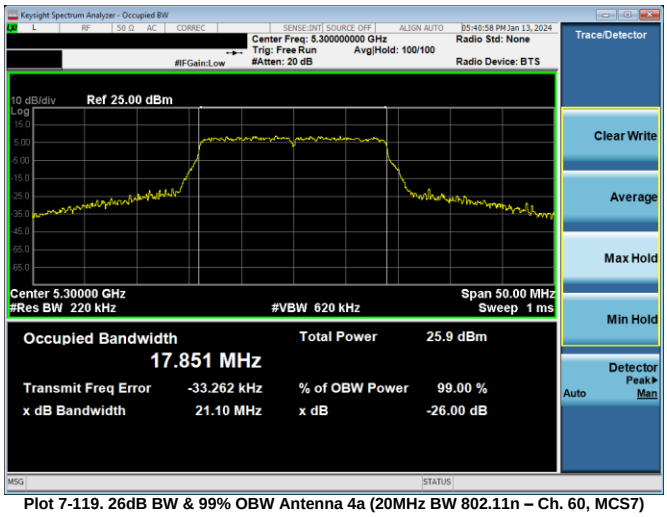
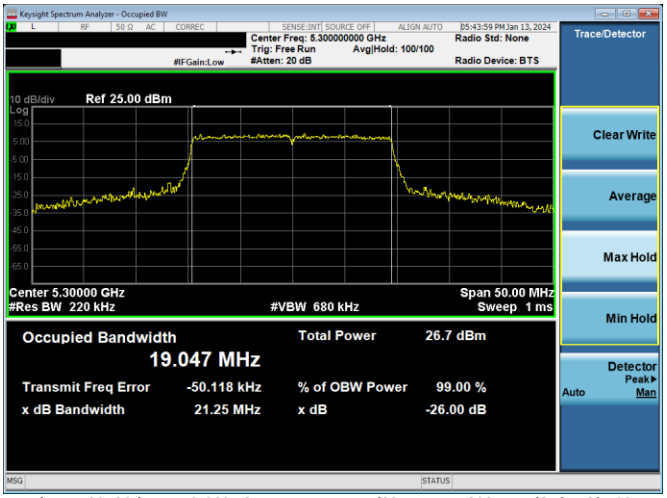


Plot 7-117. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 50, MCS9)

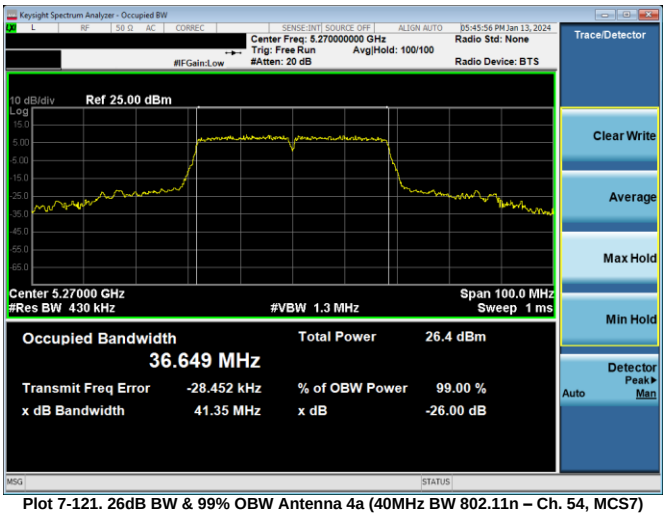
Plot 7-118. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 50, MCS11)



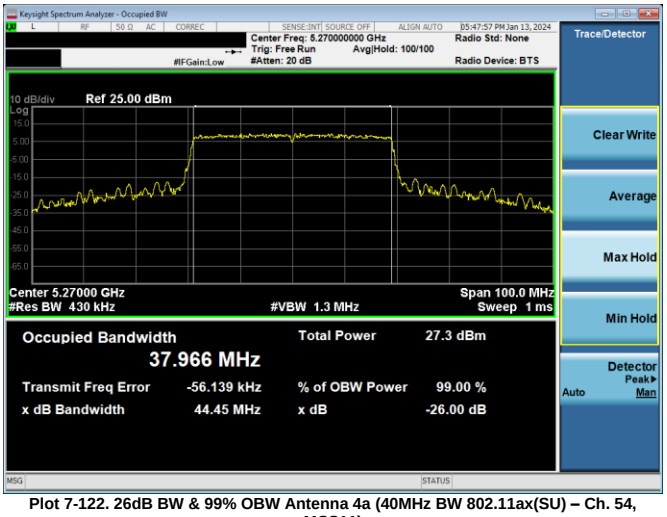
Plot 7-119. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 60, MCS7)



Plot 7-120. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 60, MCS11)



Plot 7-121. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 54, MCS7)



Plot 7-122. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 54, MCS11)

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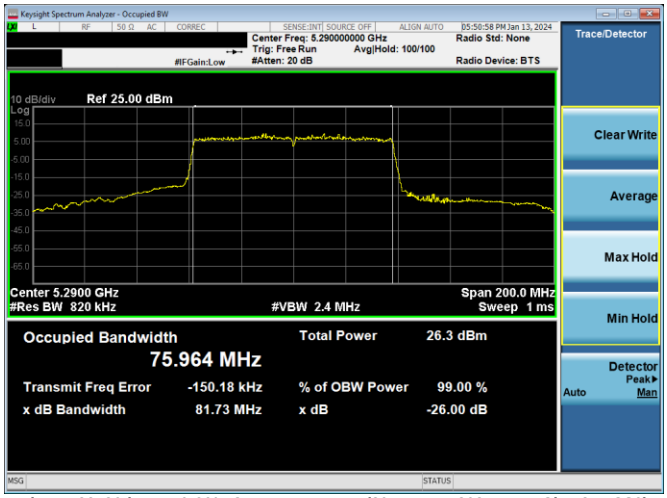
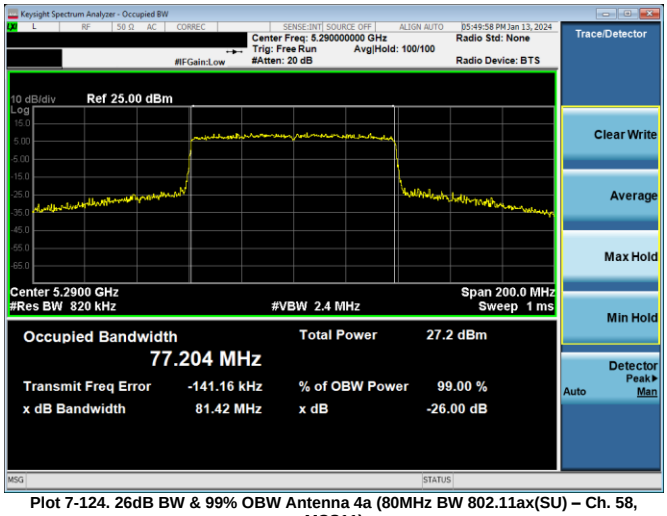
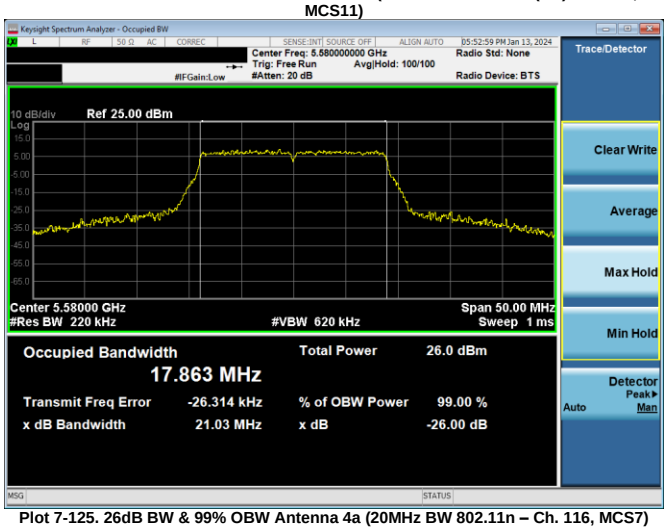


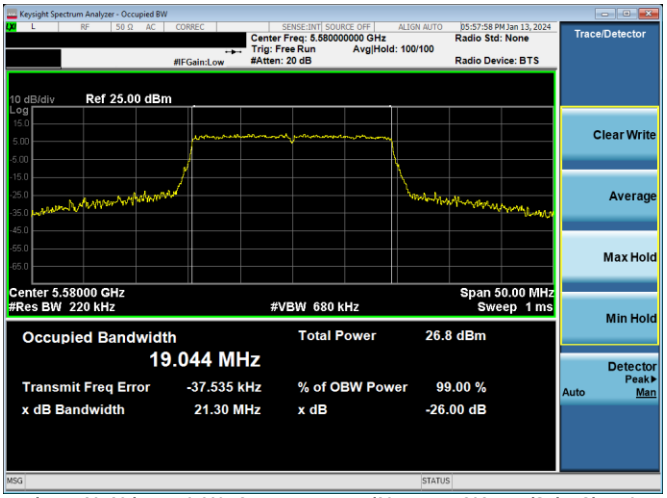
Plot 7-123. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 58, MCS9)



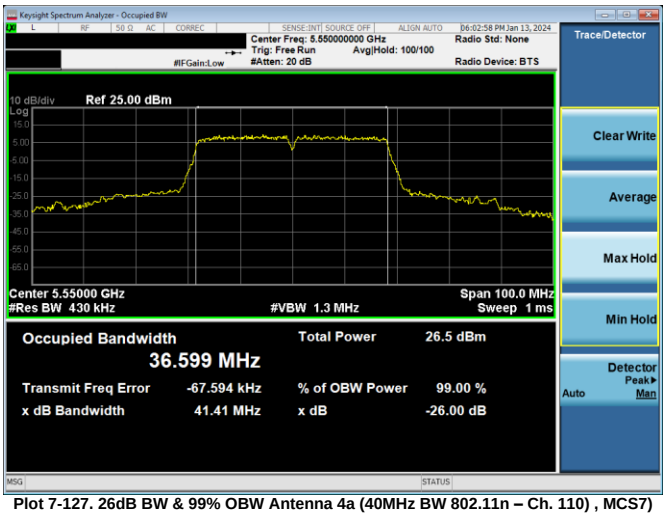
Plot 7-124. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 58, MCS11)



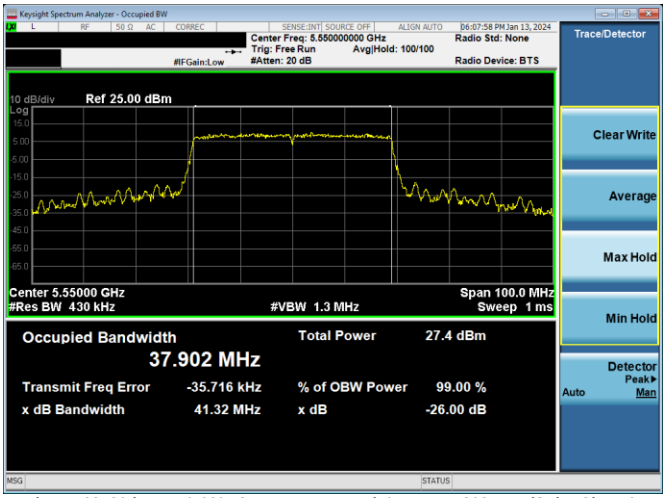
Plot 7-125. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n – Ch. 116, MCS7)



Plot 7-126. 26dB BW & 99% OBW Antenna 4a (20MHz BW 802.11ax(SU) – Ch. 116, MCS11)



Plot 7-127. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11n – Ch. 110) , MCS7)



Plot 7-128. 26dB BW & 99% OBW Antenna 4a (40MHz BW 802.11ax(SU) – Ch. 110, MCS11)

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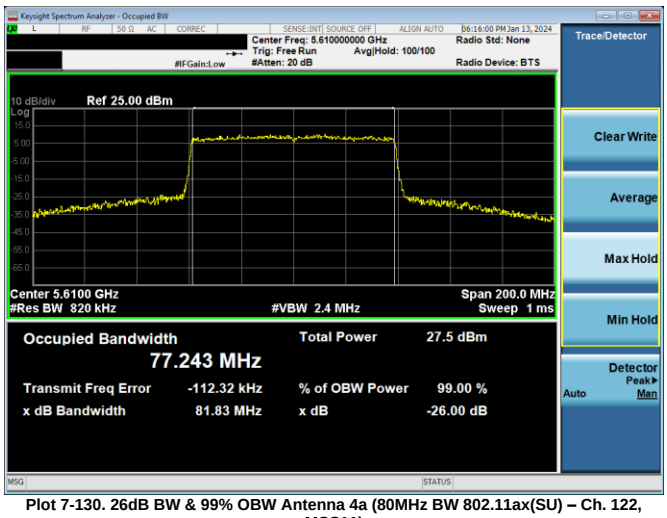
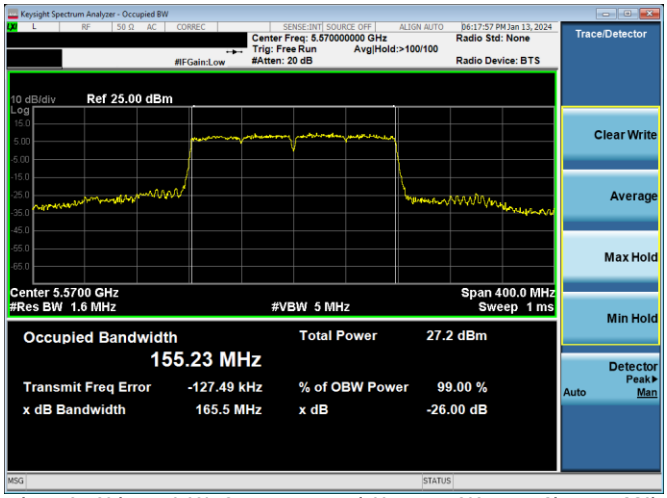
Plot 7-129. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ac – Ch. 122, MCS9)



Plot 7-130. 26dB BW & 99% OBW Antenna 4a (80MHz BW 802.11ax(SU) – Ch. 122, MCS11)



Plot 7-131. 26dB BW & 99% OBW Antenna 4a (160MHz BW 802.11ac – Ch. 114, MCS9)

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7.2.3 Antenna 2a 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	n (20MHz)	19.5/21.7 (MCS2)	17.80	21.64
	5200	40	n (20MHz)	19.5/21.7 (MCS2)	17.73	21.02
	5240	48	n (20MHz)	19.5/21.7 (MCS2)	17.74	21.11
	5180	36	ax (SU) (20MHz)	24/25.8 (MCS2)	19.14	23.99
	5200	40	ax (SU) (20MHz)	24/25.8 (MCS2)	19.07	21.37
	5240	48	ax (SU) (20MHz)	24/25.8 (MCS2)	19.03	21.15
	5190	38	n (40MHz)	40/40.5 (MCS2)	36.44	42.41
	5230	46	n (40MHz)	40/40.5 (MCS2)	36.30	41.43
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	38.04	46.34
	5230	46	ax (SU) (40MHz)	49/51.6 (MCS2)	37.94	41.55
	5210	42	ac (80MHz)	87.8/97.5 (MCS2)	75.72	83.07
	5210	42	ax (SU) (80MHz)	102/108.1 (MCS2)	77.30	92.57
Band 1/2	5250	50	ac (160MHz)	87.8/97.5 (MCS2)	155.37	166.30
	5250	50	ax (SU) (160MHz)	102/108.1 (MCS2)	157.22	165.88
Band 2A	5260	52	n (20MHz)	19.5/21.7 (MCS2)	17.74	20.96
	5300	60	n (20MHz)	19.5/21.7 (MCS2)	17.71	20.88
	5320	64	n (20MHz)	19.5/21.7 (MCS2)	17.84	21.45
	5260	52	ax (SU) (20MHz)	24/25.8 (MCS2)	19.04	21.40
	5300	60	ax (SU) (20MHz)	24/25.8 (MCS2)	19.06	21.32
	5320	64	ax (SU) (20MHz)	24/25.8 (MCS2)	19.18	27.14
	5270	54	n (40MHz)	40/40.5 (MCS2)	36.32	41.22
	5310	62	n (40MHz)	40/40.5 (MCS2)	36.42	41.97
	5270	54	ax (SU) (40MHz)	49/51.6 (MCS2)	37.97	41.64
	5310	62	ax (SU) (40MHz)	49/51.6 (MCS2)	38.07	44.28
	5290	58	ac (80MHz)	87.8/97.5 (MCS2)	75.73	85.44
	5290	58	ax (SU) (80MHz)	102/108.1 (MCS2)	77.42	85.95
Band 2C	5500	100	n (20MHz)	19.5/21.7 (MCS2)	17.80	21.47
	5580	116	n (20MHz)	19.5/21.7 (MCS2)	17.72	20.98
	5720	144	n (20MHz)	19.5/21.7 (MCS2)	17.70	21.01
	5500	100	ax (SU) (20MHz)	24/25.8 (MCS2)	19.16	23.17
	5580	116	ax (SU) (20MHz)	24/25.8 (MCS2)	19.03	21.26
	5720	144	ax (SU) (20MHz)	24/25.8 (MCS2)	19.03	21.15
	5510	102	n (40MHz)	40/40.5 (MCS2)	36.37	42.04
	5550	110	n (40MHz)	40/40.5 (MCS2)	36.24	40.97
	5710	142	n (40MHz)	40/40.5 (MCS2)	36.20	40.91
	5510	102	ax (SU) (40MHz)	49/51.6 (MCS2)	38.05	43.98
	5550	110	ax (SU) (40MHz)	49/51.6 (MCS2)	37.95	41.64
	5710	142	ax (SU) (40MHz)	49/51.6 (MCS2)	37.91	41.51
	5530	106	ac (80MHz)	87.8/97.5 (MCS2)	75.72	82.97
	5690	138	ac (80MHz)	87.8/97.5 (MCS2)	75.51	81.11
	5530	106	ax (SU) (80MHz)	102/108.1 (MCS2)	77.33	92.02
	5690	138	ax (SU) (80MHz)	102/108.1 (MCS2)	77.19	81.56
	5570	114	ac (160MHz)	87.8/97.5 (MCS2)	154.34	164.21
	5570	114	ax (SU) (160MHz)	102/108.1 (MCS2)	156.66	165.48

Table 7-8. Conducted Bandwidth Measurements Antenna 2a (Low Data Rate)

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	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	n (20MHz)	39/43.3 (MCS4)	17.78	21.07
	5200	40	n (20MHz)	39/43.3 (MCS4)	17.74	20.86
	5240	48	n (20MHz)	39/43.3 (MCS4)	17.74	20.94
	5180	36	ax (SU) (20MHz)	49/51.6 (MCS4)	19.10	23.76
	5200	40	ax (SU) (20MHz)	49/51.6 (MCS4)	19.05	21.22
	5240	48	ax (SU) (20MHz)	49/51.6 (MCS4)	19.05	21.02
	5190	38	n (40MHz)	81/90 (MCS4)	36.50	43.53
	5230	46	n (40MHz)	81/90 (MCS4)	36.41	41.14
	5190	38	ax (SU) (40MHz)	98/103.2 (MCS4)	38.21	59.93
	5230	46	ax (SU) (40MHz)	98/103.2 (MCS4)	37.98	41.53
	5210	42	ac (80MHz)	175.5/195 (MCS4)	75.69	84.36
	5210	42	ax (SU) (80MHz)	204/216.2 (MCS4)	77.31	89.87
Band 1/2	5250	50	ac (160MHz)	175.5/195 (MCS4)	155.58	165.50
	5250	50	ax (SU) (160MHz)	204/216.2 (MCS4)	157.31	165.52
Band 2A	5260	52	n (20MHz)	39/43.3 (MCS4)	17.73	21.04
	5300	60	n (20MHz)	39/43.3 (MCS4)	17.71	20.93
	5320	64	n (20MHz)	39/43.3 (MCS4)	17.77	21.06
	5260	52	ax (SU) (20MHz)	49/51.6 (MCS4)	19.04	21.26
	5300	60	ax (SU) (20MHz)	49/51.6 (MCS4)	19.07	21.18
	5320	64	ax (SU) (20MHz)	49/51.6 (MCS4)	19.08	21.99
	5270	54	n (40MHz)	81/90 (MCS4)	36.28	40.56
	5310	62	n (40MHz)	81/90 (MCS4)	36.53	41.20
	5270	54	ax (SU) (40MHz)	98/103.2 (MCS4)	38.03	41.21
	5310	62	ax (SU) (40MHz)	98/103.2 (MCS4)	38.17	47.99
	5290	58	ac (80MHz)	175.5/195 (MCS4)	75.85	81.99
	5290	58	ax (SU) (80MHz)	204/216.2 (MCS4)	77.32	87.21
Band 2C	5500	100	n (20MHz)	39/43.3 (MCS4)	17.78	21.08
	5580	116	n (20MHz)	39/43.3 (MCS4)	17.71	20.79
	5720	144	n (20MHz)	39/43.3 (MCS4)	17.71	20.80
	5500	100	ax (SU) (20MHz)	49/51.6 (MCS4)	19.10	21.92
	5580	116	ax (SU) (20MHz)	49/51.6 (MCS4)	19.04	21.13
	5720	144	ax (SU) (20MHz)	49/51.6 (MCS4)	19.03	21.13
	5510	102	n (40MHz)	81/90 (MCS4)	36.46	41.24
	5550	110	n (40MHz)	81/90 (MCS4)	36.29	40.88
	5710	142	n (40MHz)	81/90 (MCS4)	36.34	40.66
	5510	102	ax (SU) (40MHz)	98/103.2 (MCS4)	38.09	49.35
	5550	110	ax (SU) (40MHz)	98/103.2 (MCS4)	37.98	41.46
	5710	142	ax (SU) (40MHz)	98/103.2 (MCS4)	37.96	41.38
	5530	106	ac (80MHz)	175.5/195 (MCS4)	75.66	83.06
	5690	138	ac (80MHz)	175.5/195 (MCS4)	75.57	80.64
	5530	106	ax (SU) (80MHz)	204/216.2 (MCS4)	77.36	82.77
	5690	138	ax (SU) (80MHz)	204/216.2 (MCS4)	77.18	81.87
	5570	114	ac (160MHz)	175.5/195 (MCS4)	154.45	164.35
	5570	114	ax (SU) (160MHz)	204/216.2 (MCS4)	156.64	165.62

Table 7-9. Conducted Bandwidth Measurements Antenna 2a (Mid Data Rate)

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	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	n (20MHz)	65/72.2 (MCS7)	17.90	21.24
	5200	40	n (20MHz)	65/72.2 (MCS7)	17.88	21.36
	5240	48	n (20MHz)	65/72.2 (MCS7)	17.89	21.01
	5180	36	ax (SU) (20MHz)	135/143.4 (MCS11)	19.07	21.25
	5200	40	ax (SU) (20MHz)	135/143.4 (MCS11)	19.06	21.31
	5240	48	ax (SU) (20MHz)	135/143.4 (MCS11)	19.08	22.31
	5190	38	n (40MHz)	135/150 (MCS7)	36.56	41.49
	5230	46	n (40MHz)	135/150 (MCS7)	36.62	41.38
	5190	38	ax (SU) (40MHz)	271/286 (MCS11)	38.02	44.63
	5230	46	ax (SU) (40MHz)	271/286 (MCS11)	38.02	47.91
	5210	42	ac (80MHz)	390/433.3 (MCS9)	76.08	82.72
	5210	42	ax (SU) (80MHz)	567/600.5 (MCS11)	77.29	81.72
Band 1/2	5250	50	ac (160MHz)	390/433.3 (MCS9)	156.23	166.01
	5250	50	ax (SU) (160MHz)	567/600.5 (MCS11)	158.35	242.46
Band 2A	5260	52	n (20MHz)	65/72.2 (MCS7)	17.87	21.15
	5300	60	n (20MHz)	65/72.2 (MCS7)	17.87	21.05
	5320	64	n (20MHz)	65/72.2 (MCS7)	17.85	21.18
	5260	52	ax (SU) (20MHz)	135/143.4 (MCS11)	19.10	27.15
	5300	60	ax (SU) (20MHz)	135/143.4 (MCS11)	19.08	21.39
	5320	64	ax (SU) (20MHz)	135/143.4 (MCS11)	19.11	21.26
	5270	54	n (40MHz)	135/150 (MCS7)	36.83	41.72
	5310	62	n (40MHz)	135/150 (MCS7)	36.58	41.28
	5270	54	ax (SU) (40MHz)	271/286 (MCS11)	38.01	50.09
	5310	62	ax (SU) (40MHz)	271/286 (MCS11)	38.00	44.31
	5290	58	ac (80MHz)	390/433.3 (MCS9)	76.08	82.76
	5290	58	ax (SU) (80MHz)	567/600.5 (MCS11)	77.31	81.81
Band 2C	5500	100	n (20MHz)	65/72.2 (MCS7)	17.90	21.11
	5580	116	n (20MHz)	65/72.2 (MCS7)	17.82	21.13
	5720	144	n (20MHz)	65/72.2 (MCS7)	17.85	21.09
	5500	100	ax (SU) (20MHz)	135/143.4 (MCS11)	19.05	21.28
	5580	116	ax (SU) (20MHz)	135/143.4 (MCS11)	19.10	21.20
	5720	144	ax (SU) (20MHz)	135/143.4 (MCS11)	19.04	21.35
	5510	102	n (40MHz)	135/150 (MCS7)	36.58	41.41
	5550	110	n (40MHz)	135/150 (MCS7)	36.57	41.18
	5710	142	n (40MHz)	135/150 (MCS7)	36.59	41.37
	5510	102	ax (SU) (40MHz)	271/286 (MCS11)	38.03	49.97
	5550	110	ax (SU) (40MHz)	271/286 (MCS11)	37.96	47.82
	5710	142	ax (SU) (40MHz)	271/286 (MCS11)	37.95	41.34
	5530	106	ac (80MHz)	390/433.3 (MCS9)	76.08	82.34
	5690	138	ac (80MHz)	390/433.3 (MCS9)	76.11	81.50
	5530	106	ax (SU) (80MHz)	567/600.5 (MCS11)	77.34	81.95
	5690	138	ax (SU) (80MHz)	567/600.5 (MCS11)	77.23	81.63
	5570	114	ac (160MHz)	390/433.3 (MCS9)	155.41	165.77
	5570	114	ax (SU) (160MHz)	567/600.5 (MCS11)	157.17	166.21

Table 7-10. Conducted Bandwidth Measurements Antenna 2a (High Data Rate)

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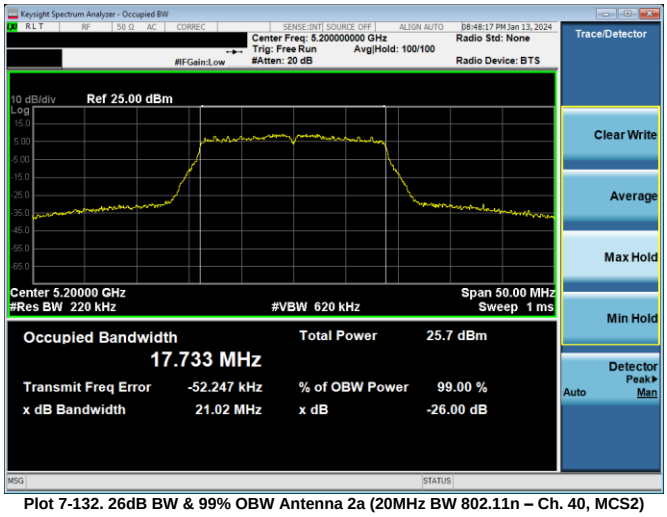
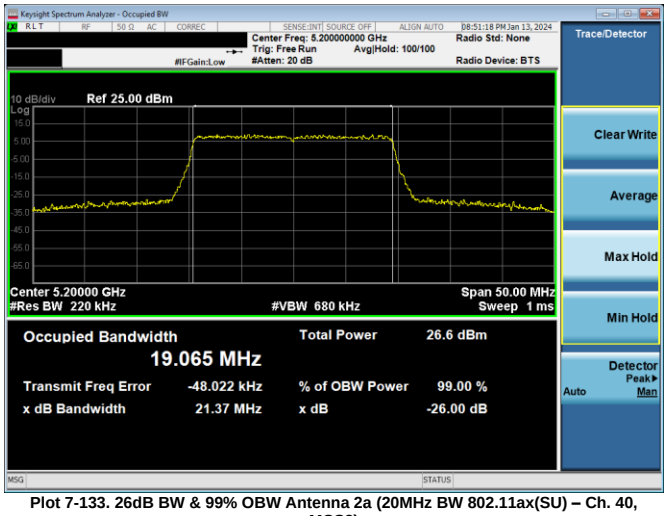
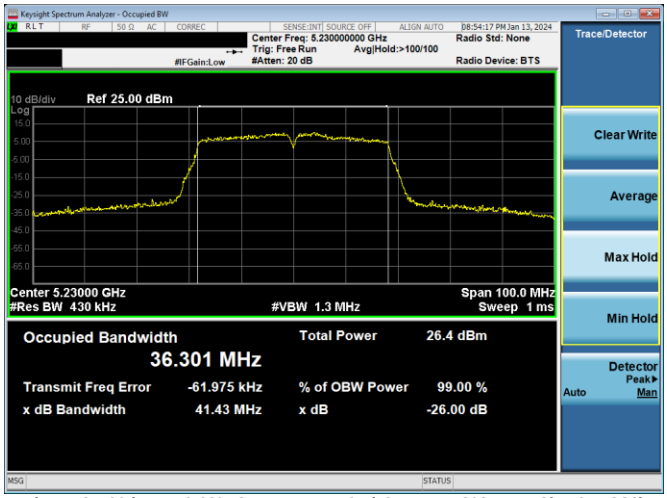


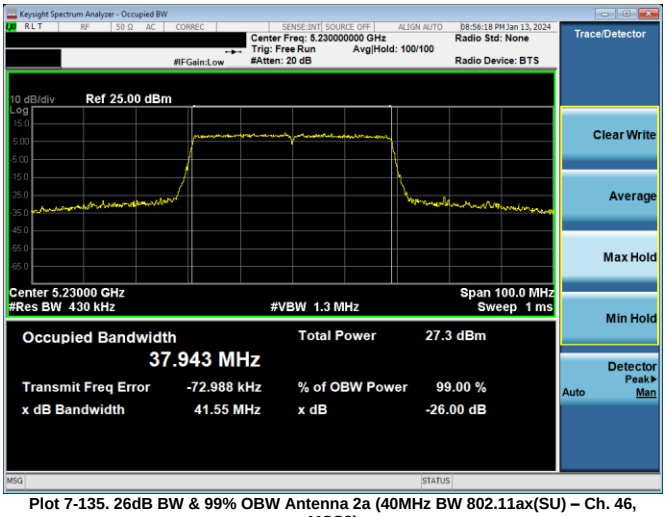
Plot 7-132. 26dB BW & 99% OBW Antenna 2a (20MHz BW 802.11n – Ch. 40, MCS2)



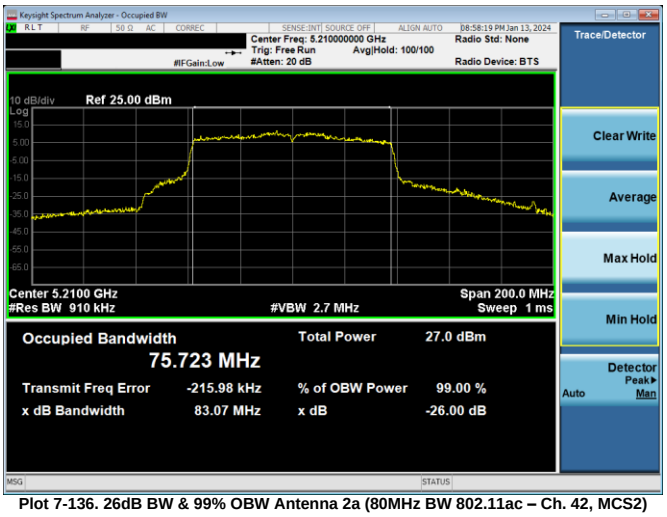
Plot 7-133. 26dB BW & 99% OBW Antenna 2a (20MHz BW 802.11ax(SU) – Ch. 40, MCS2)



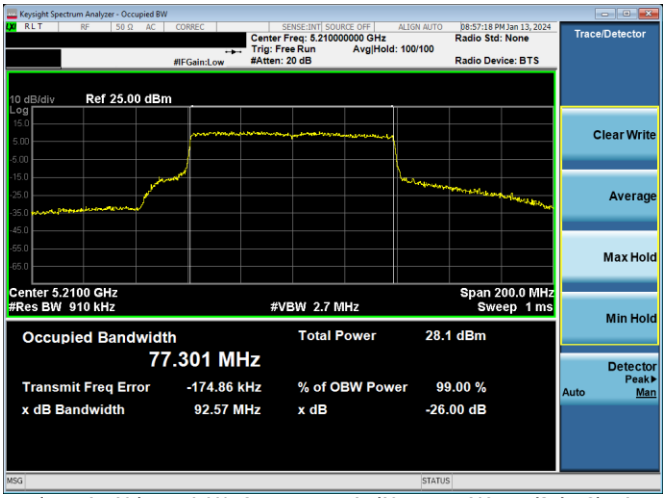
Plot 7-134. 26dB BW & 99% OBW Antenna 2a (40MHz BW 802.11n – Ch. 46, MCS2)



Plot 7-135. 26dB BW & 99% OBW Antenna 2a (40MHz BW 802.11ax(SU) – Ch. 46, MCS2)



Plot 7-136. 26dB BW & 99% OBW Antenna 2a (80MHz BW 802.11ac – Ch. 42, MCS2)



Plot 7-137. 26dB BW & 99% OBW Antenna 2a (80MHz BW 802.11ax(SU) – Ch. 42, MCS2)

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