



Plot 7-57. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



Plot 7-58. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

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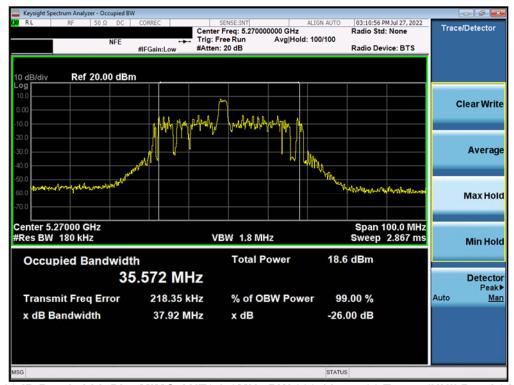
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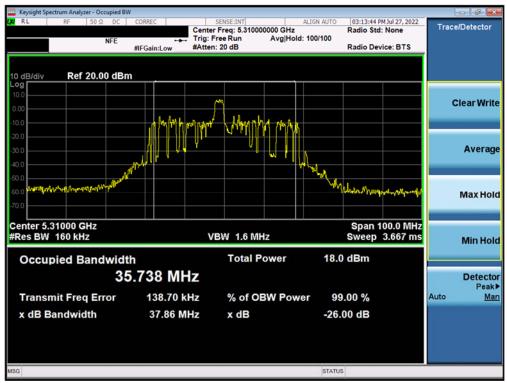
Plot 7-59. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



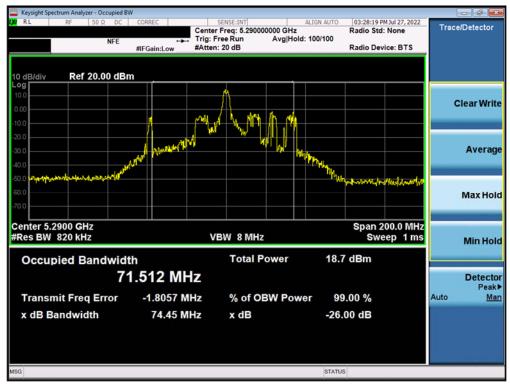
Plot 7-60. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

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Plot 7-61. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



Plot 7-62. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

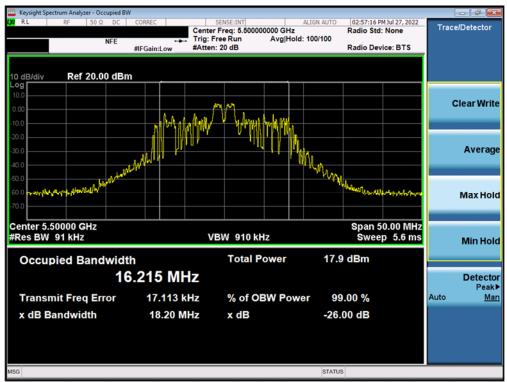
FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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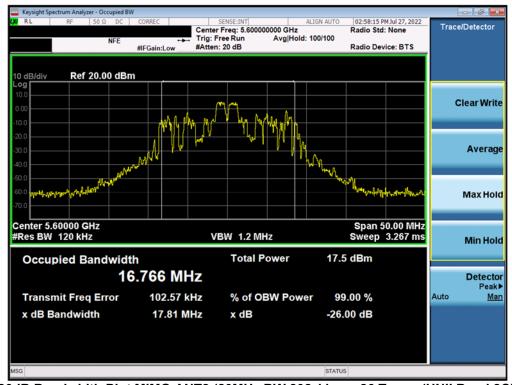
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Plot 7-63. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



Plot 7-64. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

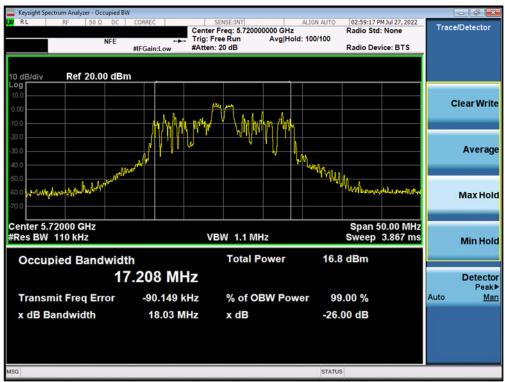
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Plot 7-65. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



Plot 7-66. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

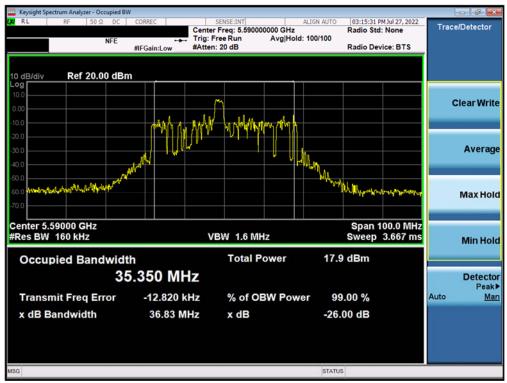
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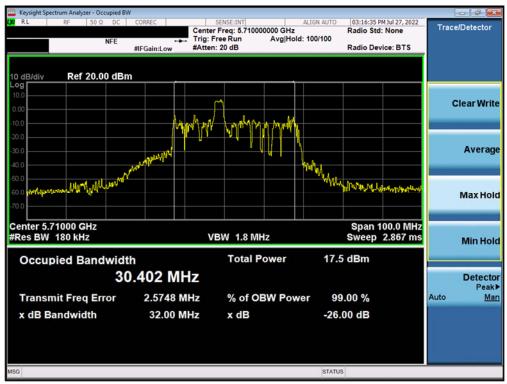
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Plot 7-67. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-68. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

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Plot 7-69. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-70. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

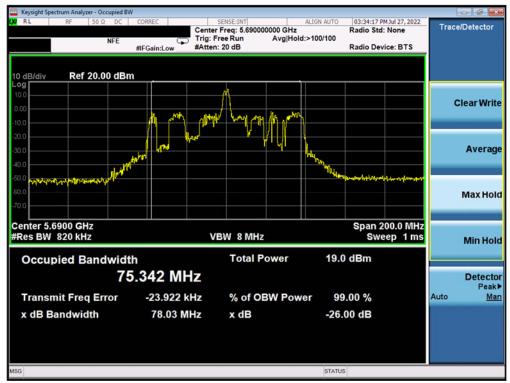
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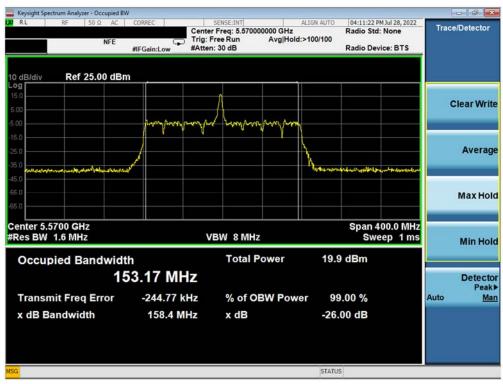
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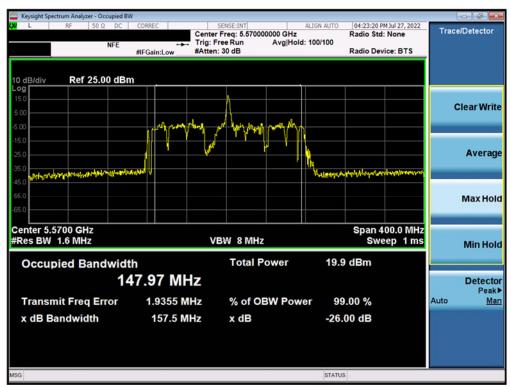
Plot 7-71. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)



Plot 7-72. 26dB Bandwidth Plot MIMO ANT2 (160MHz L BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

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Plot 7-73. 26dB Bandwidth Plot MIMO ANT2 (160MHz U BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 114)

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MIMO Antenna-2 26dB Bandwidth Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 26dB Bandwidth [MHz]
	5180	36	ax (20MHz)	242T	MCS0	21.52
	5200	40	ax (20MHz)	242T	MCS0	22.54
Band 1	5240	48	ax (20MHz)	242T	MCS0	22.02
Bar	5190	38	ax (40MHz)	484T	MCS0	42.78
	5230	46	ax (40MHz)	484T	MCS0	42.41
	5210	42	ax (80MHz)	996T	MCS0	89.29
Band 1/2A	5250	50	ax (160MHz)	996T	MCS0	170.40
	5260	52	ax (20MHz)	242T	MCS0	21.68
	5280	56	ax (20MHz)	242T	MCS0	22.01
Band 2A	5320	64	ax (20MHz)	242T	MCS0	22.36
Banı	5270	54	ax (40MHz)	484T	MCS0	43.38
	5310	62	ax (40MHz)	484T	MCS0	42.96
	5290	58	ax (80MHz)	996T	MCS0	87.66
	5500	100	ax (20MHz)	242T	MCS0	22.16
	5600	120	ax (20MHz)	242T	MCS0	21.68
	5720	144	ax (20MHz)	242T	MCS0	21.70
	5510	102	ax (40MHz)	484T	MCS0	43.26
d 2C	5590	118	ax (40MHz)	484T	MCS0	44.03
Band 2C	5710	142	ax (40MHz)	484T	MCS0	42.68
	5530	106	ax (80MHz)	996T	MCS0	84.99
	5610	122	ax (80MHz)	996T	MCS0	85.52
	5690	138	ax (80MHz)	996T	MCS0	84.45
	5570	114	ax (160MHz)	996T	MCS0	168.20

Table 7-5. Conducted Bandwidth Measurements MIMO ANT2 (Full Tones)

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Plot 7-74. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 36)



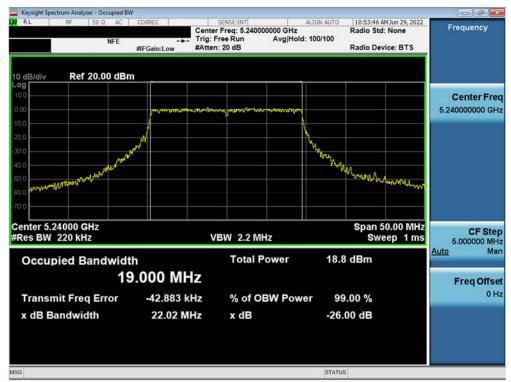
Plot 7-75. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 40)

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Plot 7-76. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 48)



Plot 7-77. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 1) - Ch. 38)

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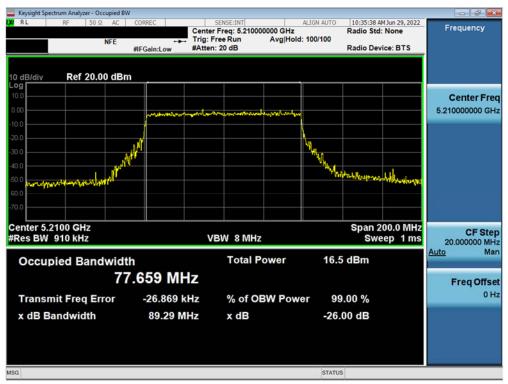
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Plot 7-78. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 1) - Ch. 46)



Plot 7-79. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 1) - Ch. 42)

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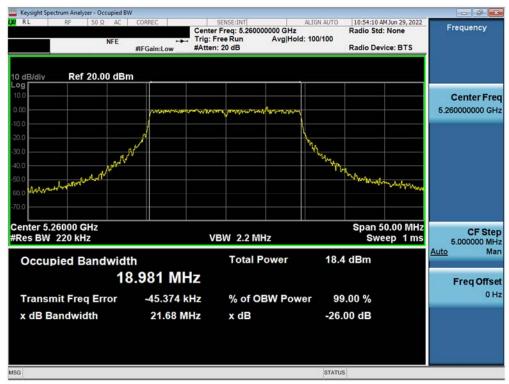
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Plot 7-80. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax – 996 Tones (UNII Band 1/2A) – Ch. 50)



Plot 7-81. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2A) - Ch. 52)

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Plot 7-82. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2A) - Ch. 56)



Plot 7-83. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2A) - Ch. 64)

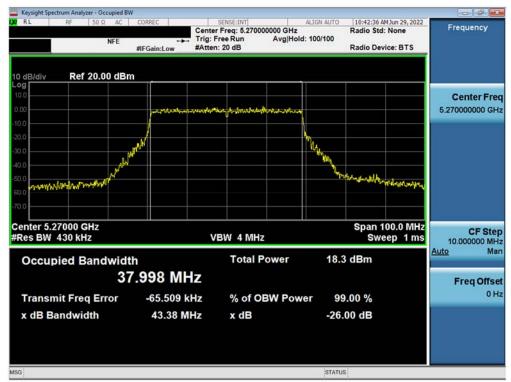
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Plot 7-84. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 2A) - Ch. 54)



Plot 7-85. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 2A) - Ch. 62)

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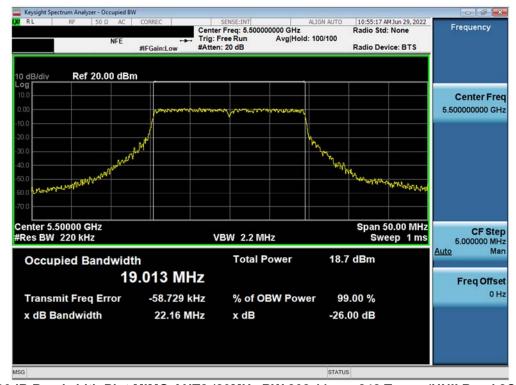
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Plot 7-86. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 2A) - Ch. 58)



Plot 7-87. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2C) - Ch. 100)

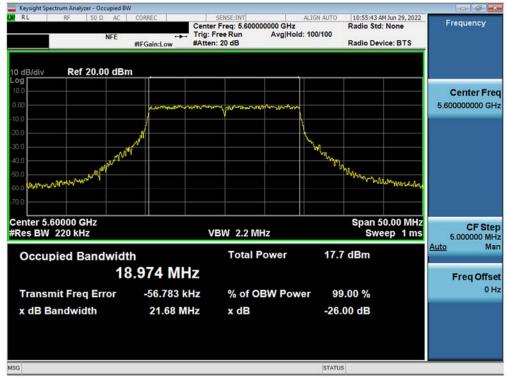
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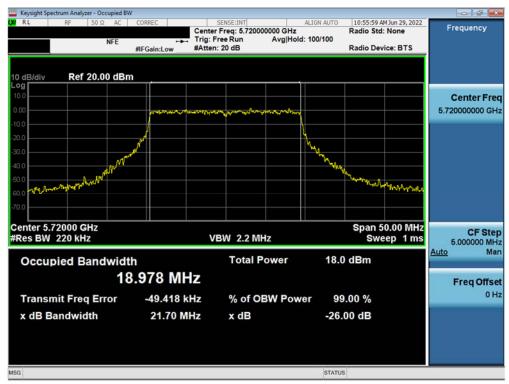
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Plot 7-88. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2C) - Ch. 120)



Plot 7-89. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2C) - Ch. 144)

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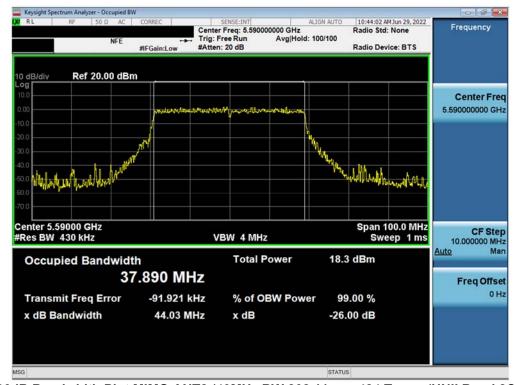
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Plot 7-90. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 2C) - Ch. 102)



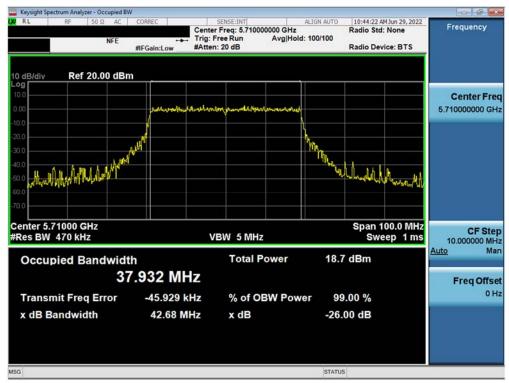
Plot 7-91. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 2C) - Ch. 118)

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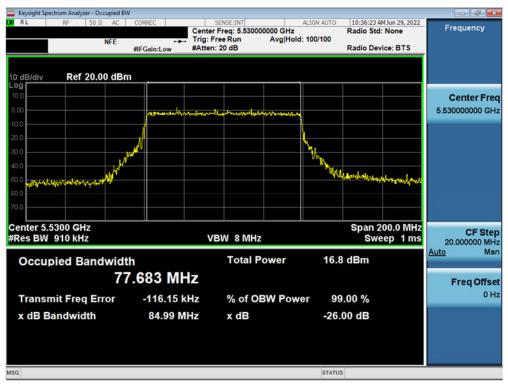
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Plot 7-92. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)



Plot 7-93. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 2C) - Ch. 106)

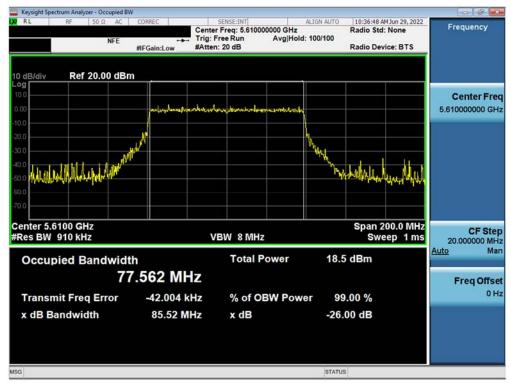
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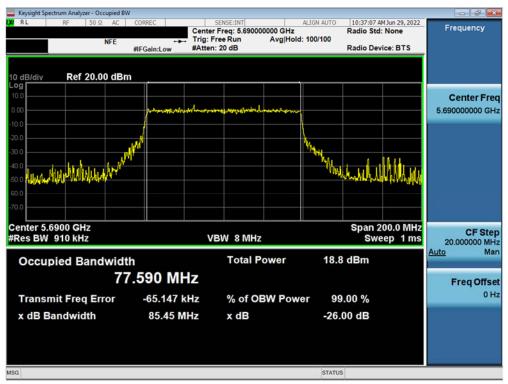
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Plot 7-94. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 2C) - Ch. 122)



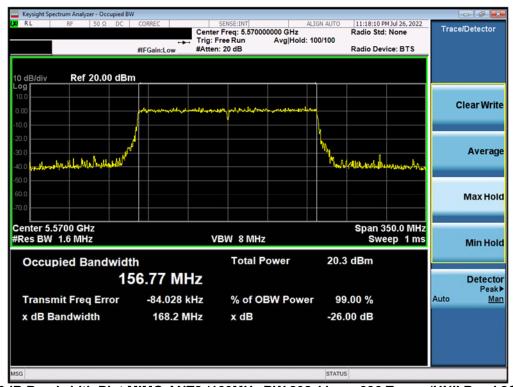
Plot 7-95. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 2C) - Ch. 138)

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Plot 7-96. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax - 996 Tones (UNII Band 2C) - Ch. 114)

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7.3 6dB Bandwidth Measurement – 802.11ax OFDMA

§15.407 (e); RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 – 5.850GHz band, the 6dB bandwidth must be \geq 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 6.9.2 KDB 789033 D02 v02r01 – Section C

Test Settings

- 1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 100 kHz
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- Trace mode = max hold
- 6. Sweep = auto couple

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

The 6dB Bandwidth measurement for each channel was measured with the RU index showing the highest conducted power.

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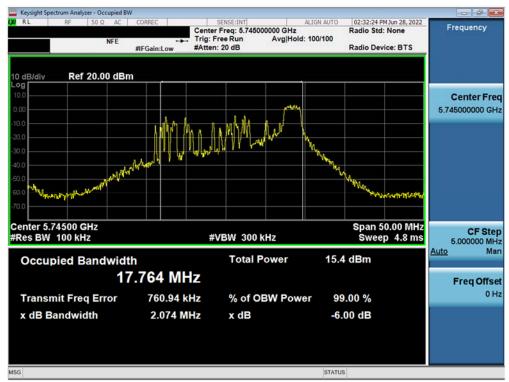
MIMO Antenna-1 6 dB Bandwidth Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	ax (20MHz)	26T	MCS0	2.07
က	5785	157	ax (20MHz)	26T	MCS0	2.08
	5825	165	ax (20MHz)	26T	MCS0	2.06
Band	5755	151	ax (40MHz)	26T	MCS0	2.08
	5795	159	ax (40MHz)	26T	MCS0	2.09
	5775	155	ax (80MHz)	26T	MCS0	2.22

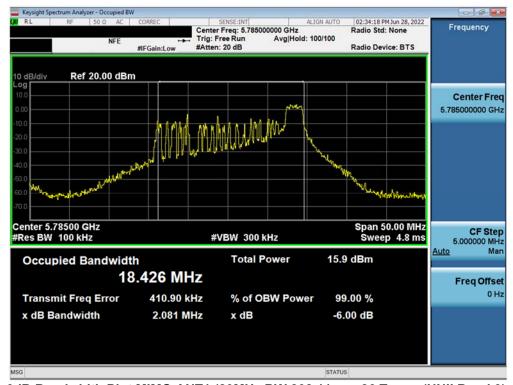
Table 7-6. Conducted Bandwidth Measurements MIMO ANT1 (26 Tones)

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Plot 7-97. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)



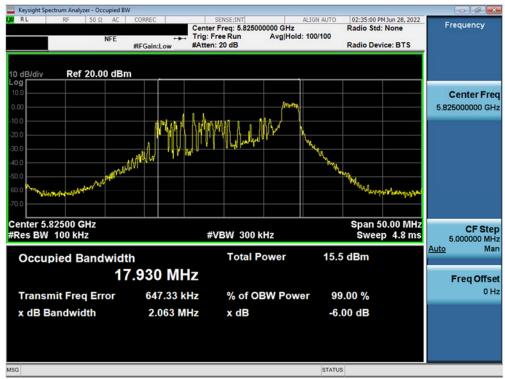
Plot 7-98. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

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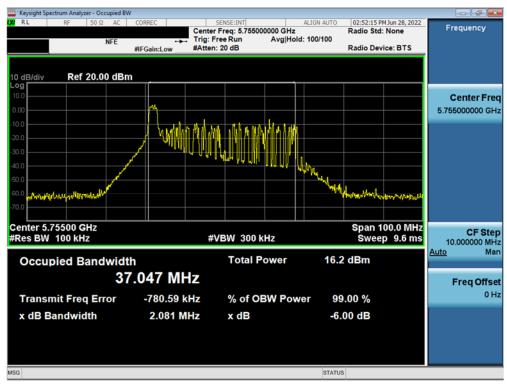
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Plot 7-99. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)

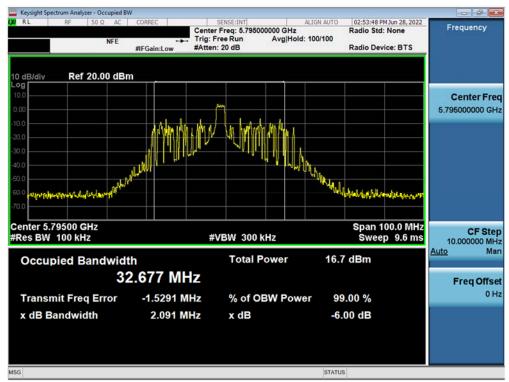


Plot 7-100. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

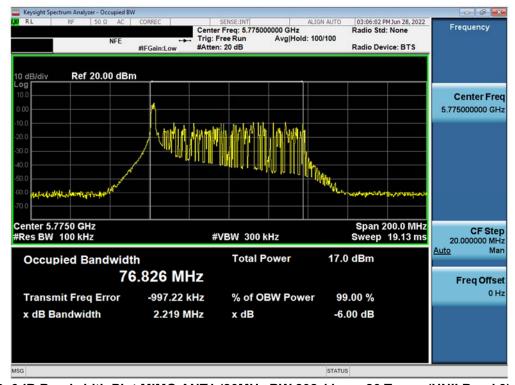
FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-101. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



Plot 7-102. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

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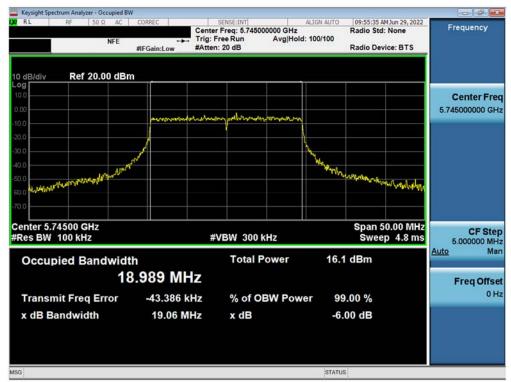
MIMO Antenna-1 6 dB Bandwidth Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	ax (20MHz)	242T	MCS0	19.06
	5785	157	ax (20MHz)	242T	MCS0	18.98
5 pc	5825	165	ax (20MHz)	242T	MCS0	19.07
Band	5755	151	ax (40MHz)	484T	MCS0	38.09
	5795	159	ax (40MHz)	484T	MCS0	38.05
	5775	155	ax (80MHz)	996T	MCS0	78.09

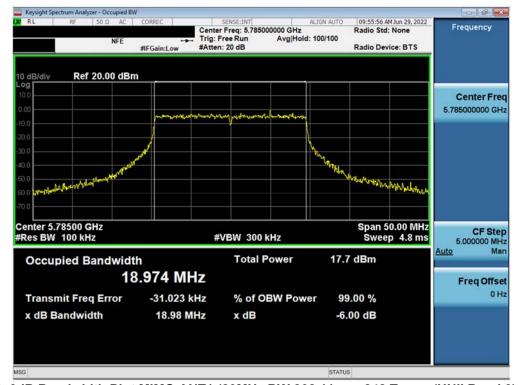
Table 7-7. Conducted Bandwidth Measurements MIMO ANT1 (Full Tones)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-103. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 149)



Plot 7-104. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 157)

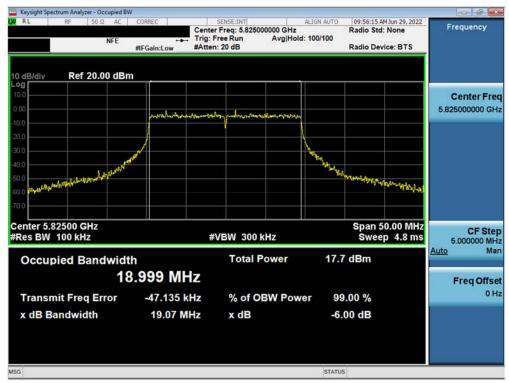
FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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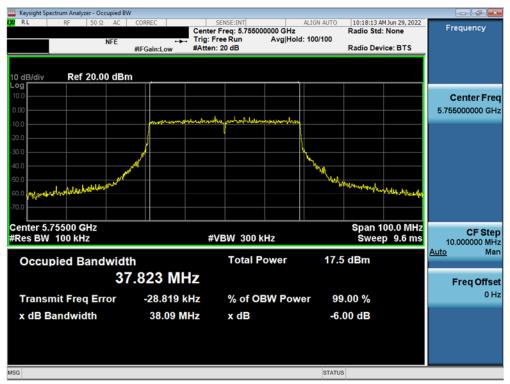
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Plot 7-105. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 165)



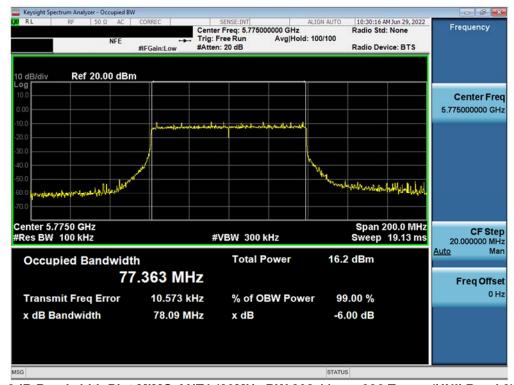
Plot 7-106. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 3) - Ch. 151)

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Plot 7-107. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 3) - Ch. 159)



Plot 7-108. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax - 996 Tones (UNII Band 3) - Ch. 155)

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MIMO Antenna-2 6dB Bandwidth Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	ax (20MHz)	26T	MCS0	2.69
•	5785	157	ax (20MHz)	26T	MCS0	2.62
9 pt	5825	165	ax (20MHz)	26T	MCS0	2.70
Band	5755	151	ax (40MHz)	26T	MCS0	2.16
_	5795	159	ax (40MHz)	26T	MCS0	2.26
	5775	155	ax (80MHz)	26T	MCS0	2.85

Table 7-8. Conducted Bandwidth Measurements MIMO ANT2 (26 Tones)

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Plot 7-109. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



Plot 7-110. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

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