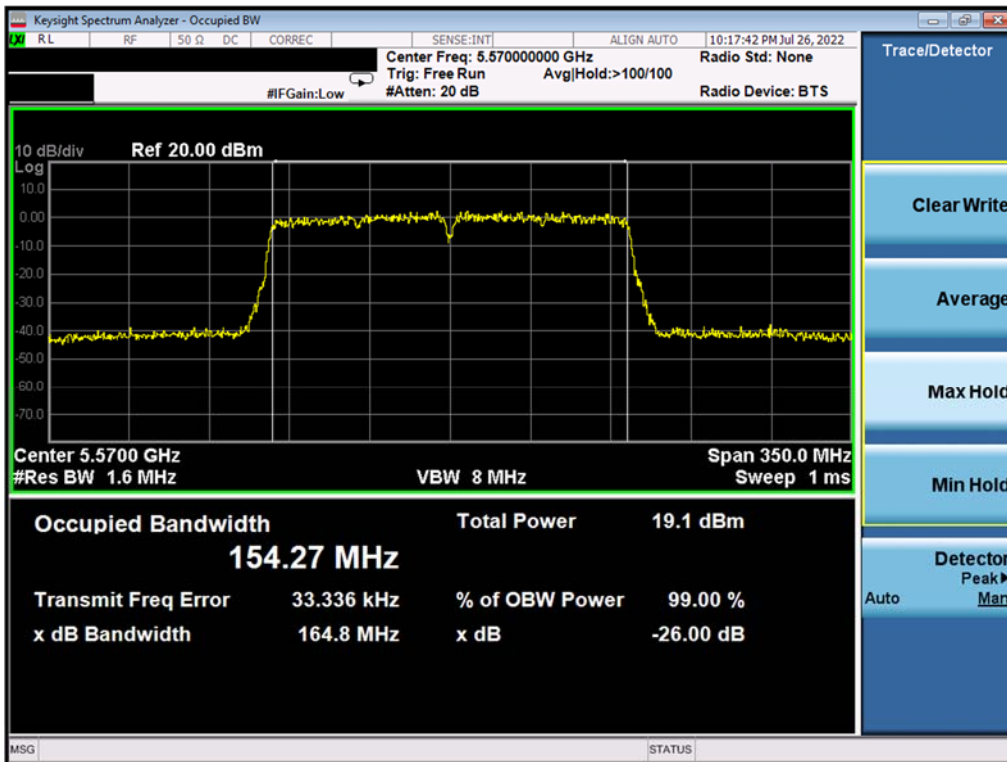


Plot 7-53. 26dB Bandwidth Plot MIMO ANT1 (802.11ax – 80MHz BW (UNII Band 2C) – Ch. 138)



Plot 7-54. 26dB Bandwidth Plot MIMO ANT1 (802.11ac – 160MHz BW (UNII Band 2C) – Ch. 114)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 42 of 209



Plot 7-55. 26dB Bandwidth Plot MIMO ANT1 (802.11ax – 160MHz BW (UNII Band 2C) – Ch. 114)

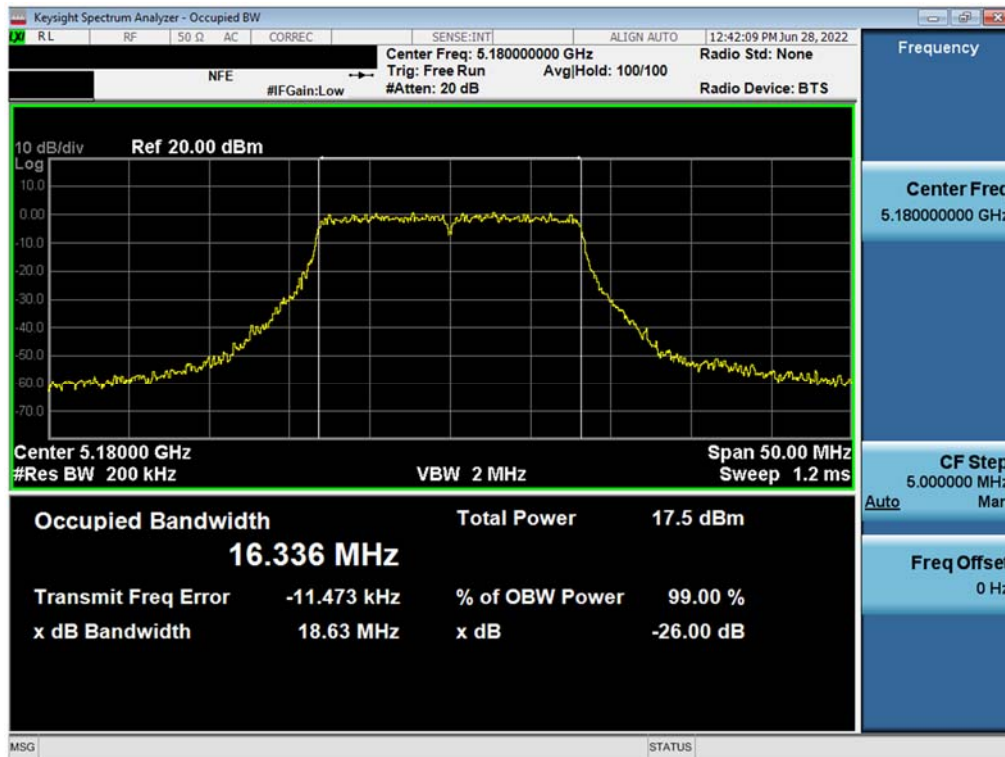
FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 43 of 209

MIMO Antenna-2 26dB Bandwidth Measurements

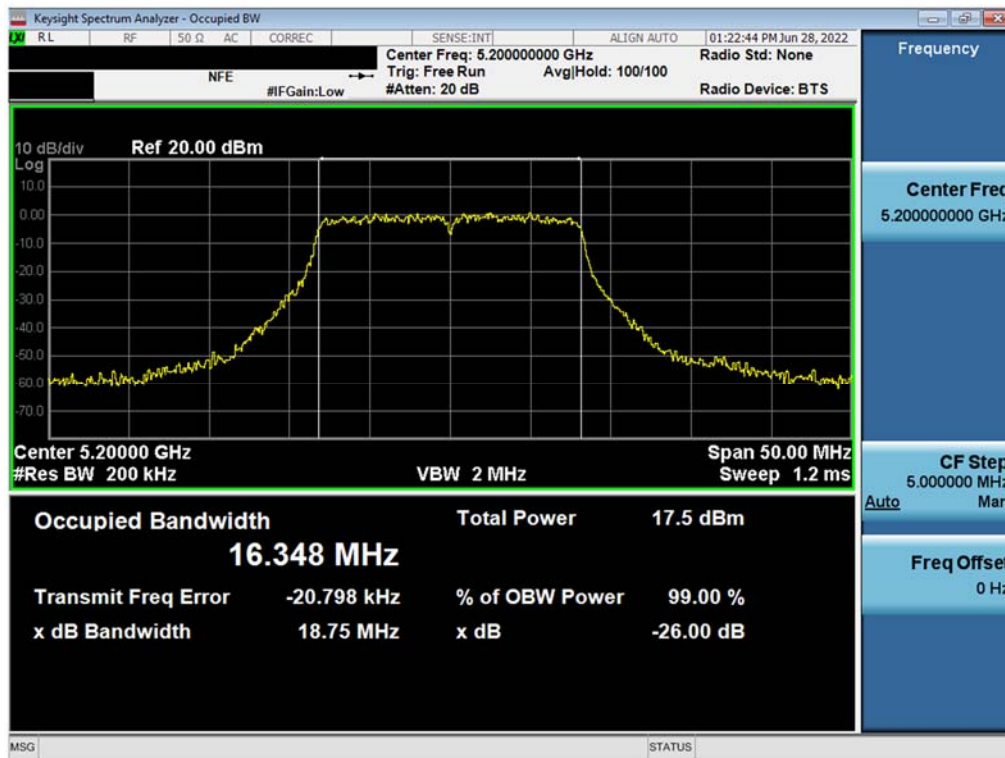
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	a	6	18.63
	5200	40	a	6	18.75
	5240	48	a	6	18.63
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	19.78
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	19.94
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	20.02
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	20.76
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	20.62
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	20.97
	5190	38	n (40MHz)	13.5/15 (MCS0)	39.25
	5230	46	n (40MHz)	13.5/15 (MCS0)	39.34
	5190	38	ax (40MHz)	13.5/15 (MCS0)	40.03
	5230	46	ax (40MHz)	13.5/15 (MCS0)	40.31
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	81.99
5210	42	ax (80MHz)	29.3/32.5 (MCS0)	80.97	
Band 1/2A	5250	50	ac (160MHz)	58.5/65 (MCS0)	164.90
	5250	50	ax (160MHz)	58.5/65 (MCS0)	165.20
Band 2A	5260	52	a	6	18.65
	5280	56	a	6	18.50
	5320	64	a	6	18.66
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	19.87
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	19.64
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	20.04
	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	20.77
	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	20.82
	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	20.79
	5270	54	n (40MHz)	13.5/15 (MCS0)	39.11
	5310	62	n (40MHz)	13.5/15 (MCS0)	39.30
	5270	54	ax (40MHz)	13.5/15 (MCS0)	39.83
	5310	62	ax (40MHz)	13.5/15 (MCS0)	40.39
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	81.60
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	81.41
	Band 2C	5500	100	a	6
5600		120	a	6	18.84
5720		144	a	6	18.74
5500		100	n (20MHz)	6.5/7.2 (MCS0)	19.93
5600		120	n (20MHz)	6.5/7.2 (MCS0)	19.96
5720		144	n (20MHz)	6.5/7.2 (MCS0)	19.91
5500		100	ax (20MHz)	6.5/7.2 (MCS0)	20.70
5600		120	ax (20MHz)	6.5/7.2 (MCS0)	20.93
5720		144	ax (20MHz)	6.5/7.2 (MCS0)	20.92
5510		102	n (40MHz)	13.5/15 (MCS0)	38.98
5590		118	n (40MHz)	13.5/15 (MCS0)	38.96
5710		142	n (40MHz)	13.5/15 (MCS0)	39.16
5510		102	ax (40MHz)	13.5/15 (MCS0)	39.97
5590		118	ax (40MHz)	13.5/15 (MCS0)	39.95
5710		142	ax (40MHz)	13.5/15 (MCS0)	39.85
5530		106	ac (80MHz)	29.3/32.5 (MCS0)	81.41
5610		122	ac (80MHz)	29.3/32.5 (MCS0)	81.51
5690		138	ac (80MHz)	29.3/32.5 (MCS0)	80.84
5530		106	ax (80MHz)	29.3/32.5 (MCS0)	82.39
5610		122	ax (80MHz)	29.3/32.5 (MCS0)	81.30
5690	138	ax (80MHz)	29.3/32.5 (MCS0)	81.32	
5570	114	ac (160MHz)	58.5/65 (MCS0)	165.30	
5570	114	ax (160MHz)	58.5/65 (MCS0)	164.70	

Table 7-3. Conducted Bandwidth Measurements SISO ANT2

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 44 of 209

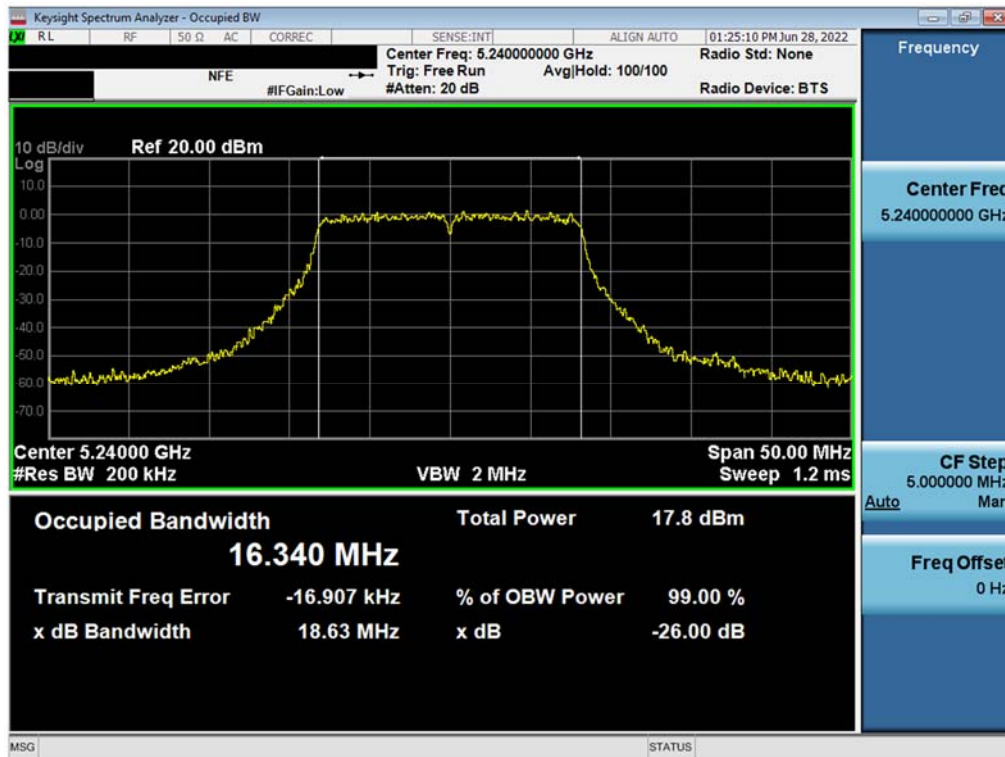


Plot 7-56. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 1) – Ch. 36)

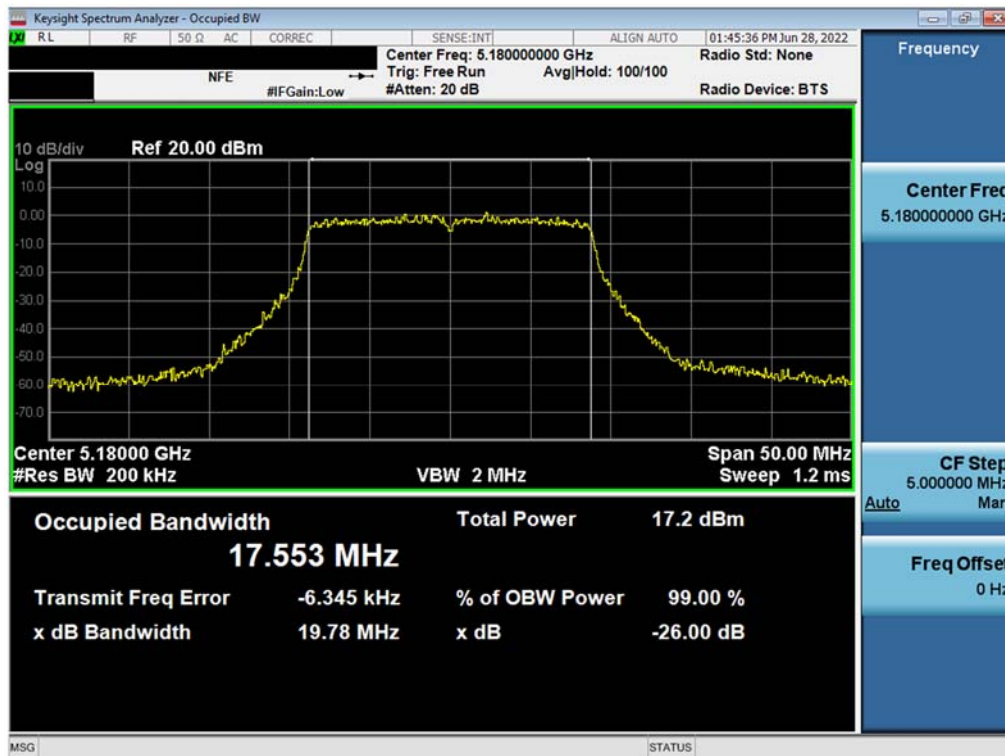


Plot 7-57. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 1) – Ch. 40)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 45 of 209

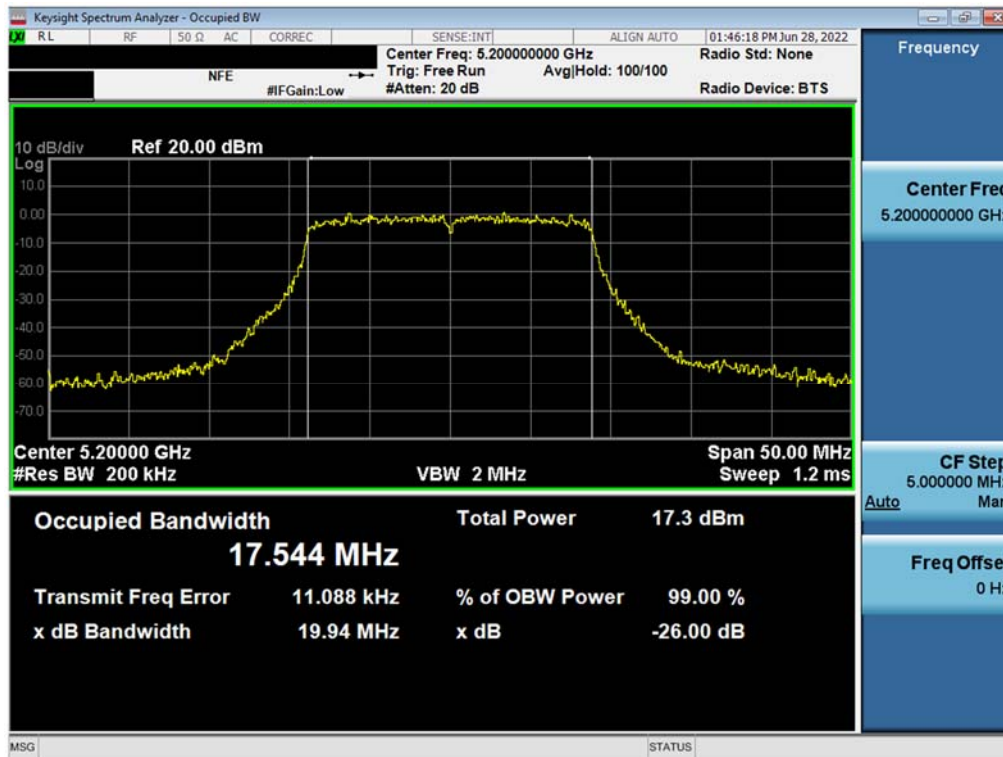


Plot 7-58. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 1) – Ch. 48)



Plot 7-59. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 1) – Ch. 36)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 46 of 209

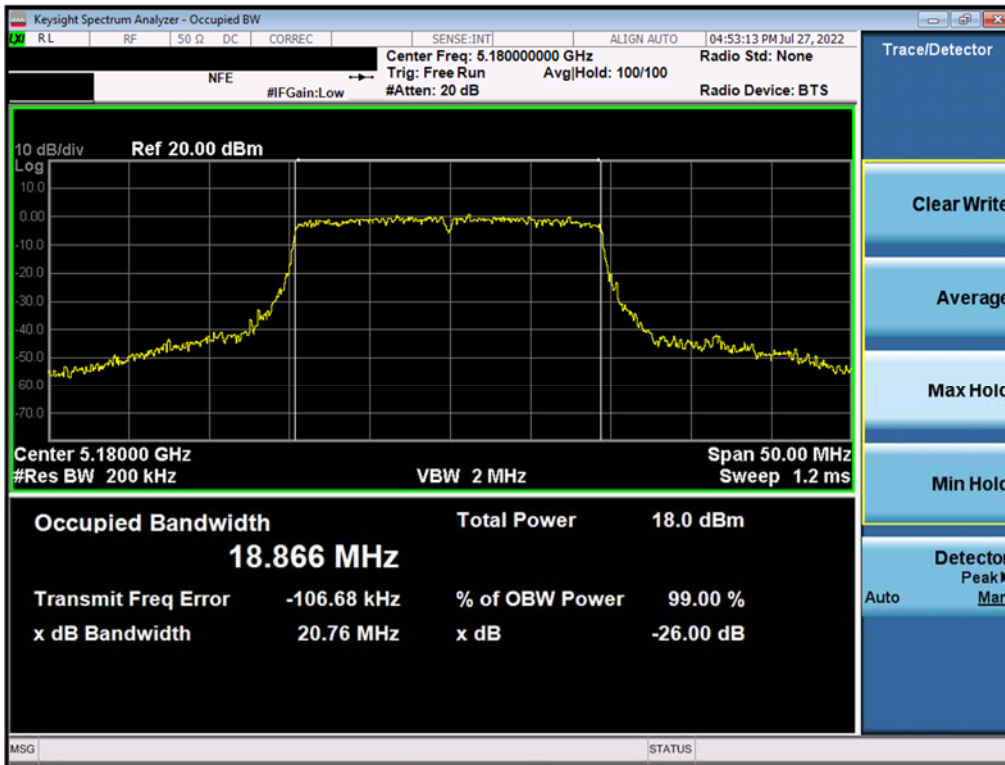


Plot 7-60. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 1) – Ch. 40)

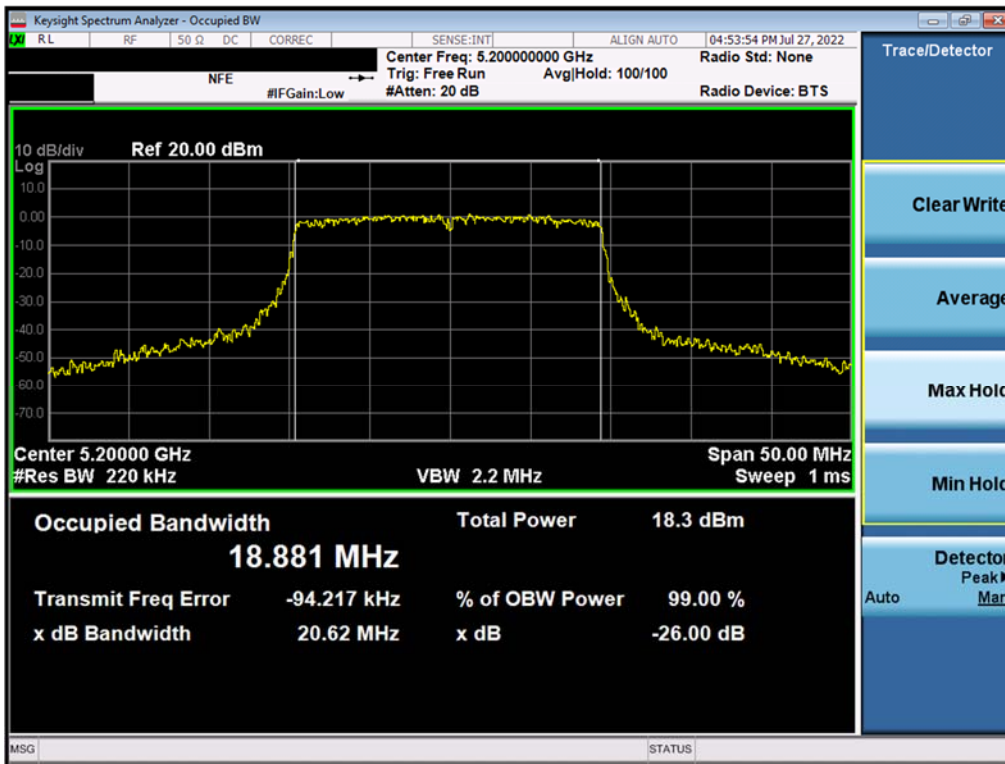


Plot 7-61. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 1) – Ch. 48)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 47 of 209

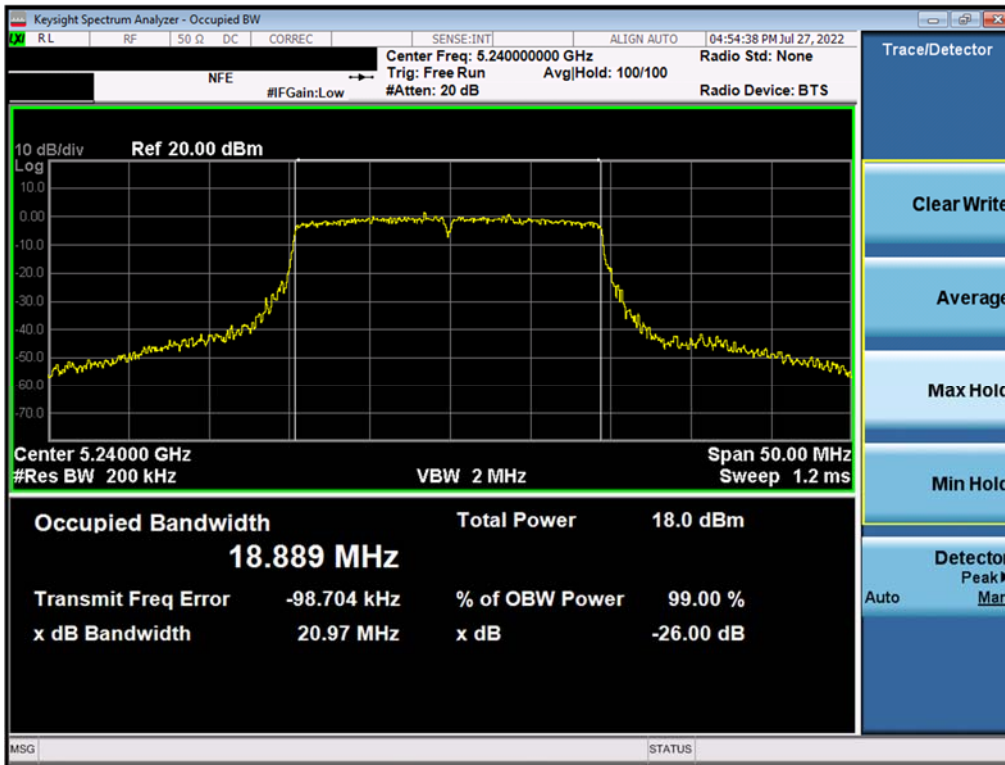


Plot 7-62. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 1) – Ch. 36)

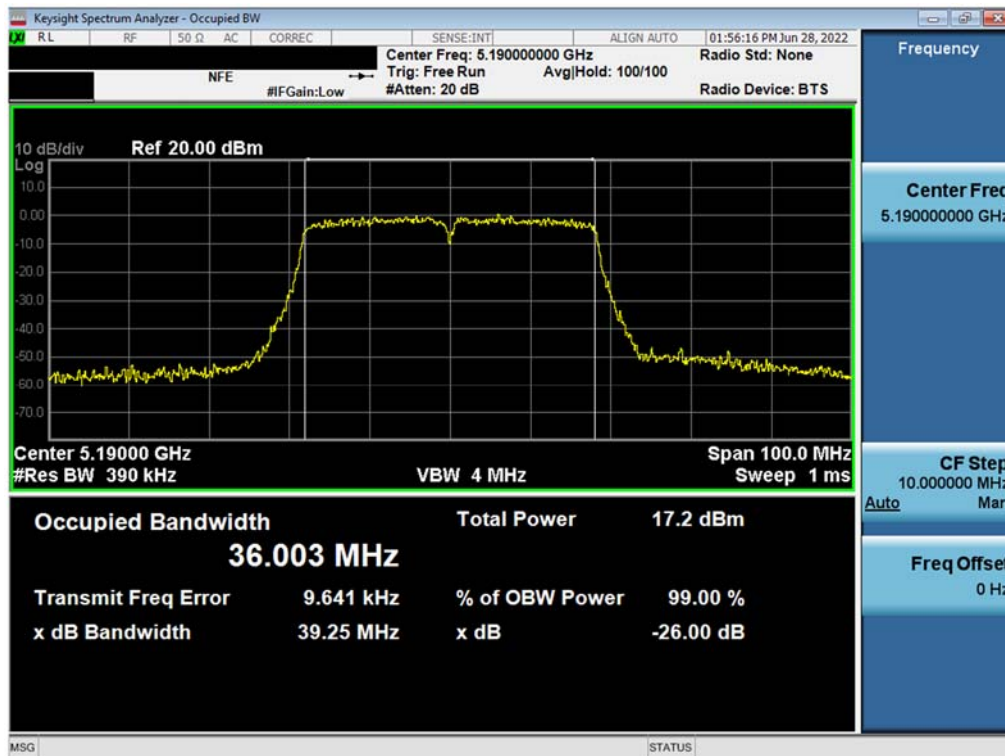


Plot 7-63. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 1) – Ch. 40)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 48 of 209

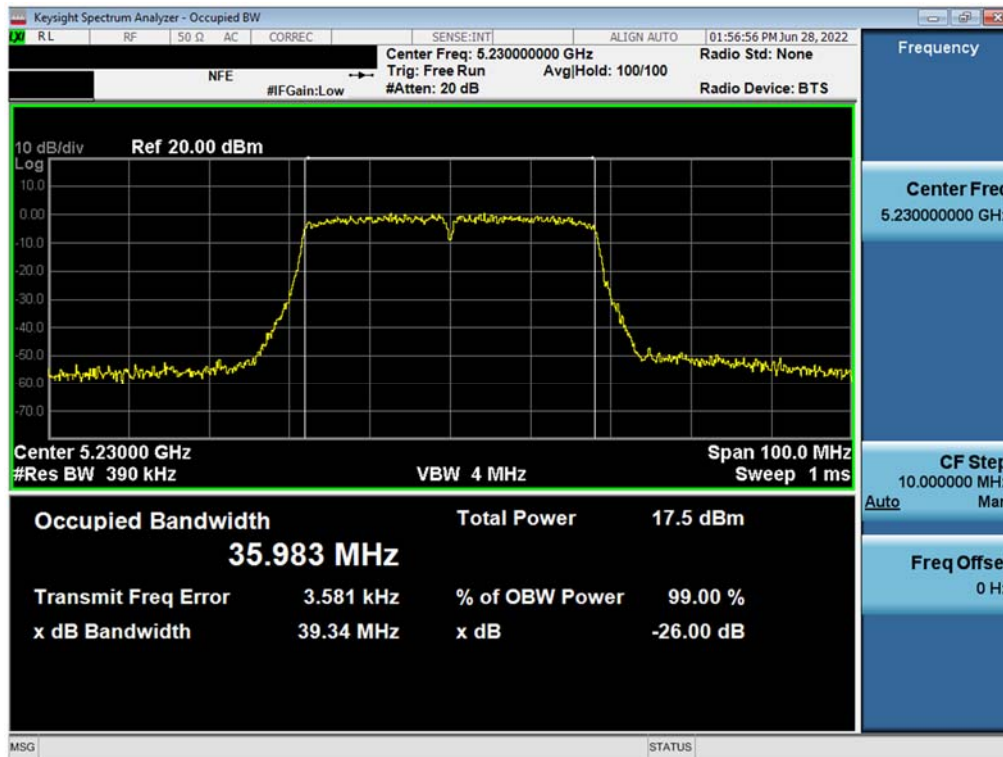


Plot 7-64. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 1) – Ch. 48)

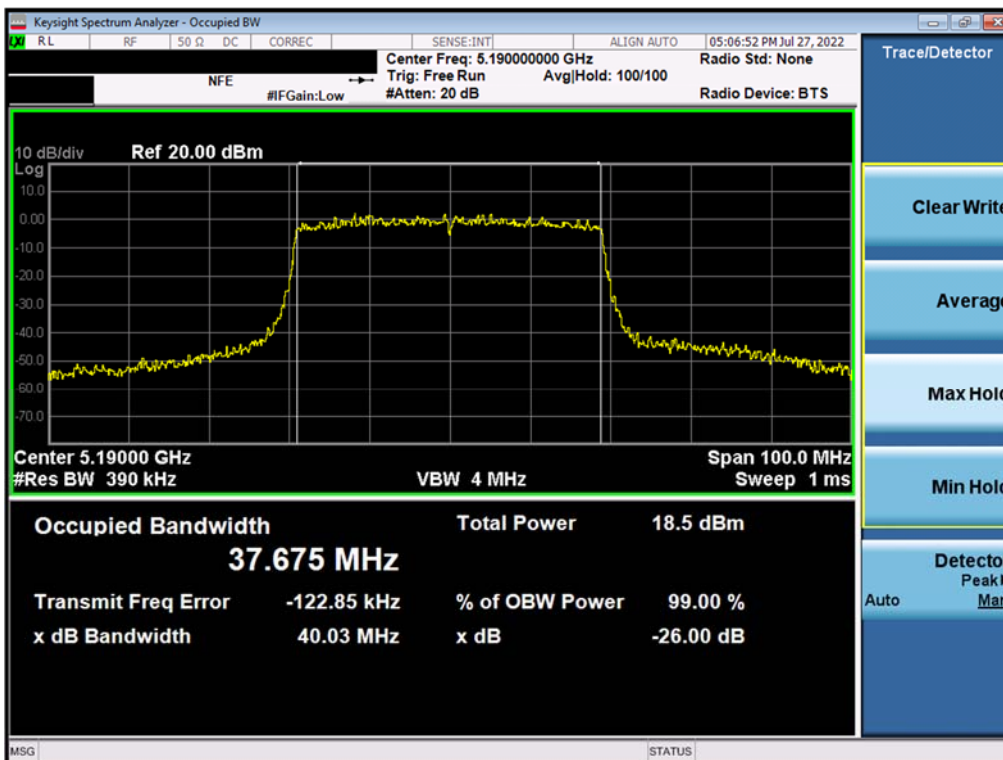


Plot 7-65. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 40MHz BW (UNII Band 1) – Ch. 38)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 49 of 209

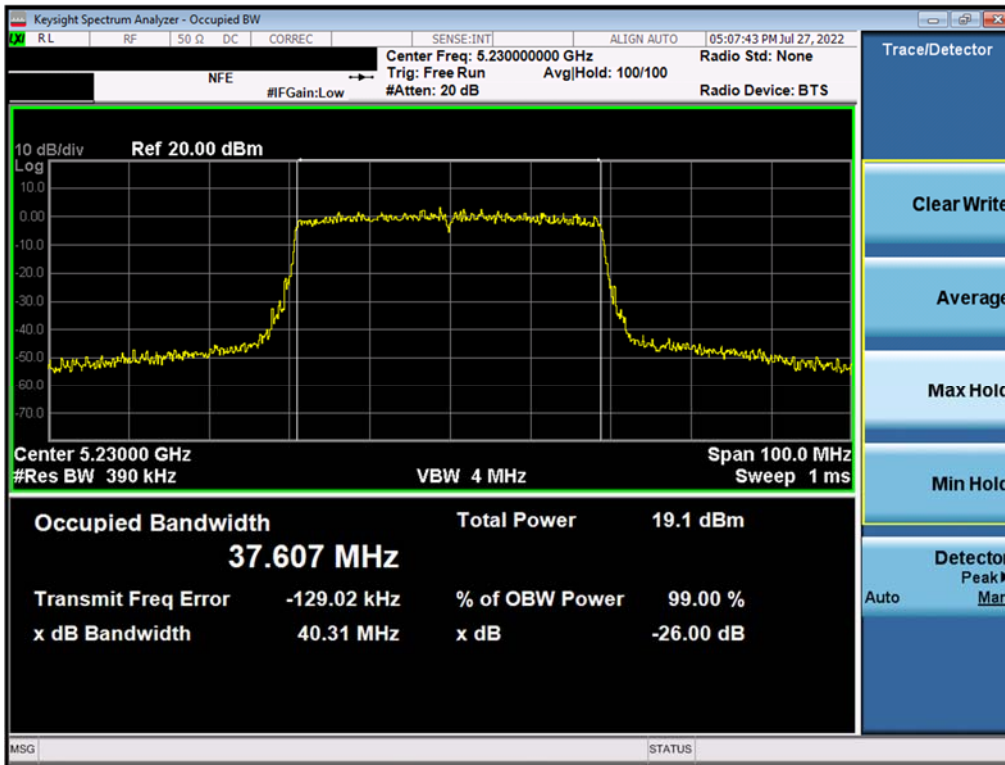


Plot 7-66. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 40MHz BW (UNII Band 1) – Ch. 46)

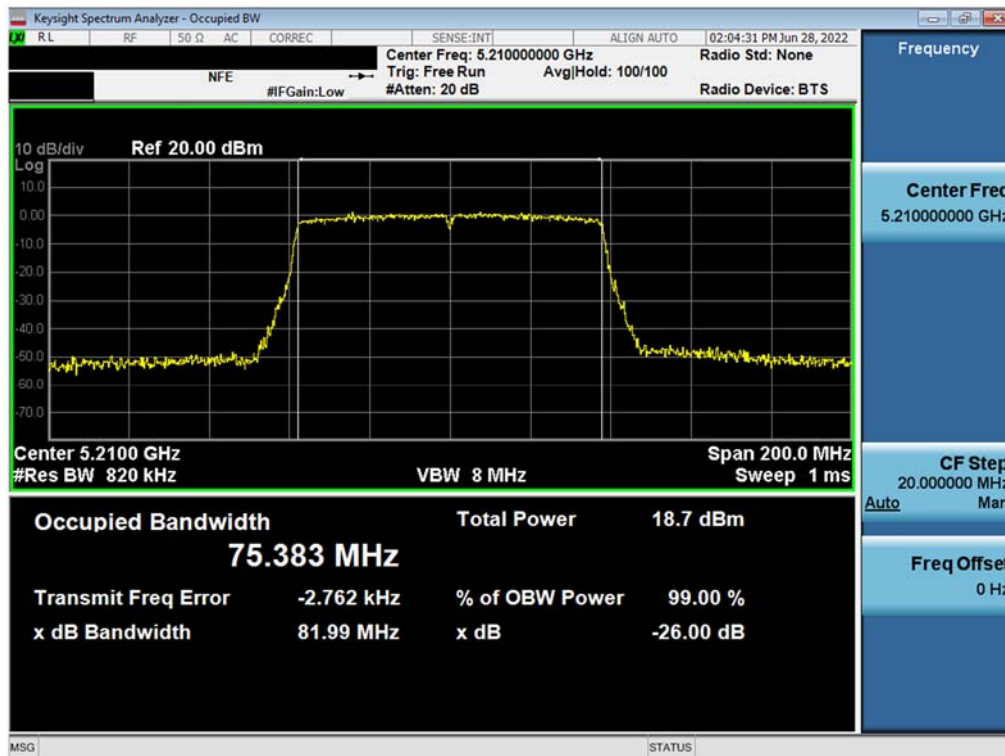


Plot 7-67. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 40MHz BW (UNII Band 1) – Ch. 38)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 50 of 209

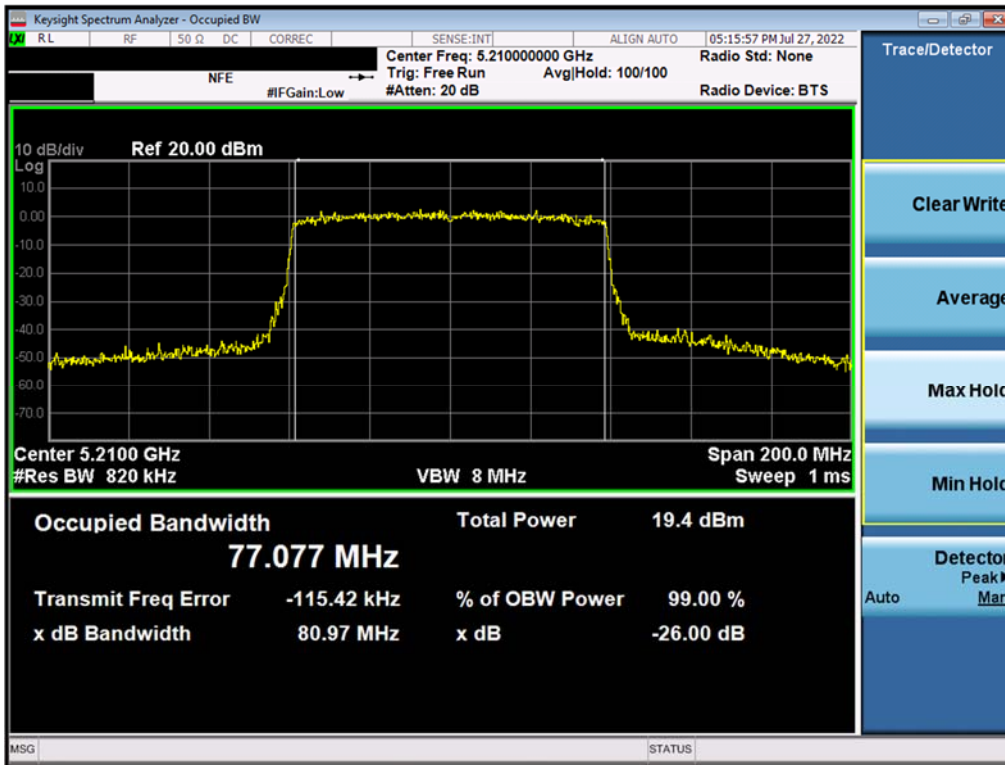


Plot 7-68. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 40MHz BW (UNII Band 1) – Ch. 46)

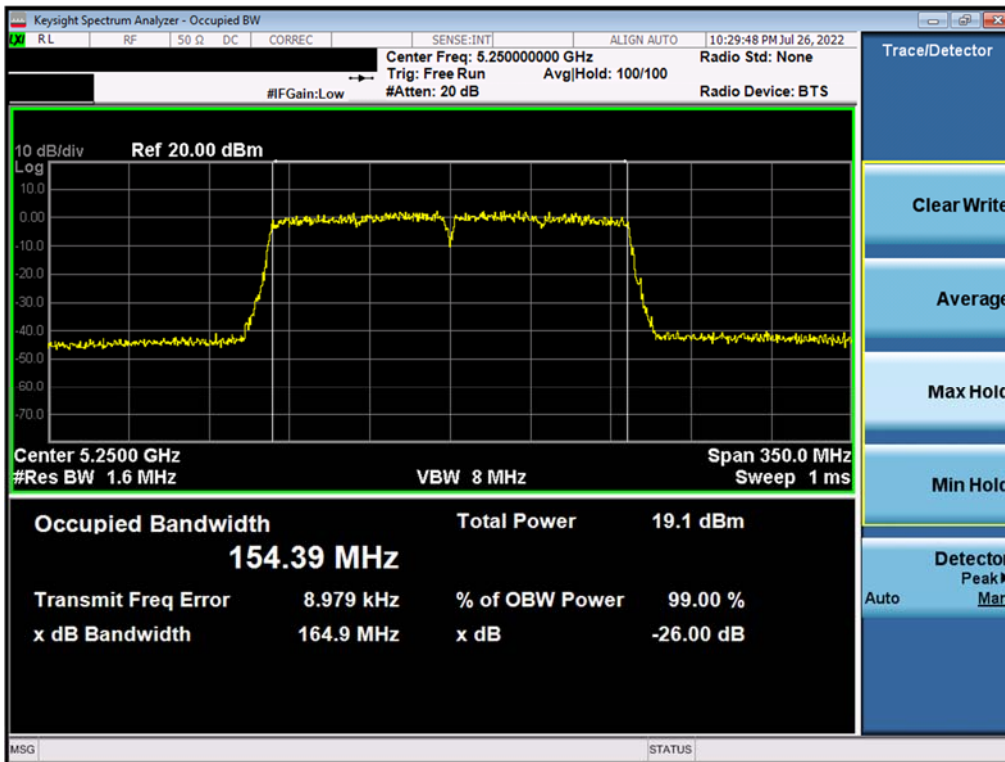


Plot 7-69. 26dB Bandwidth Plot MIMO ANT2 (802.11ac – 80MHz BW (UNII Band 1) – Ch. 42)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 51 of 209

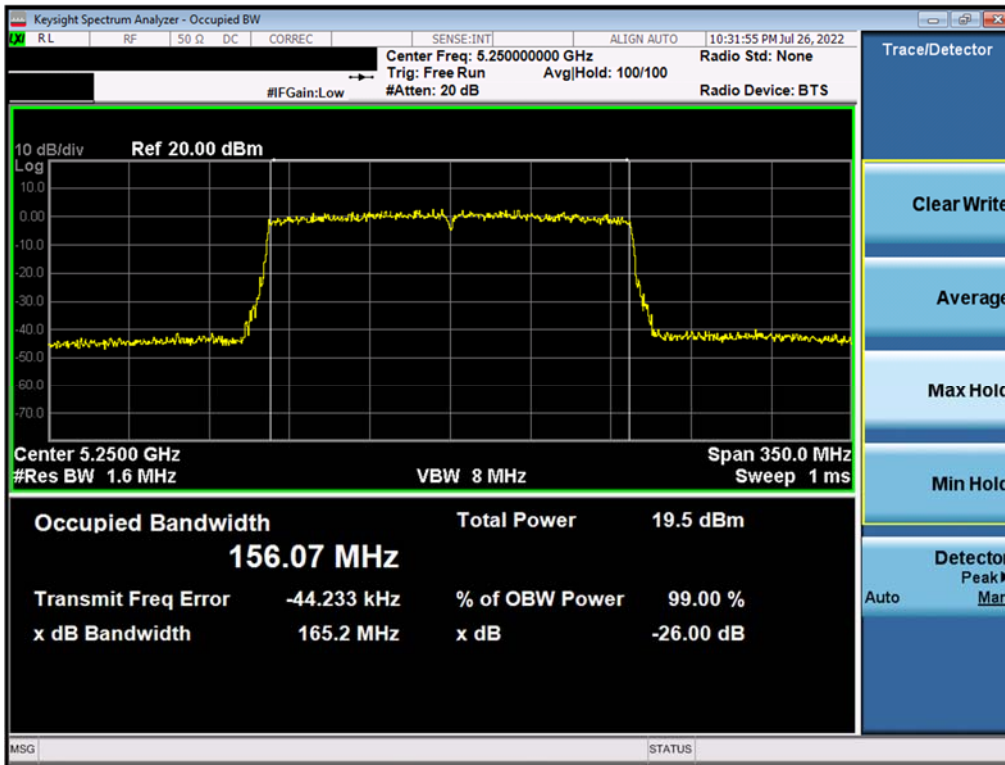


Plot 7-70. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 80MHz BW (UNII Band 1) – Ch. 42)

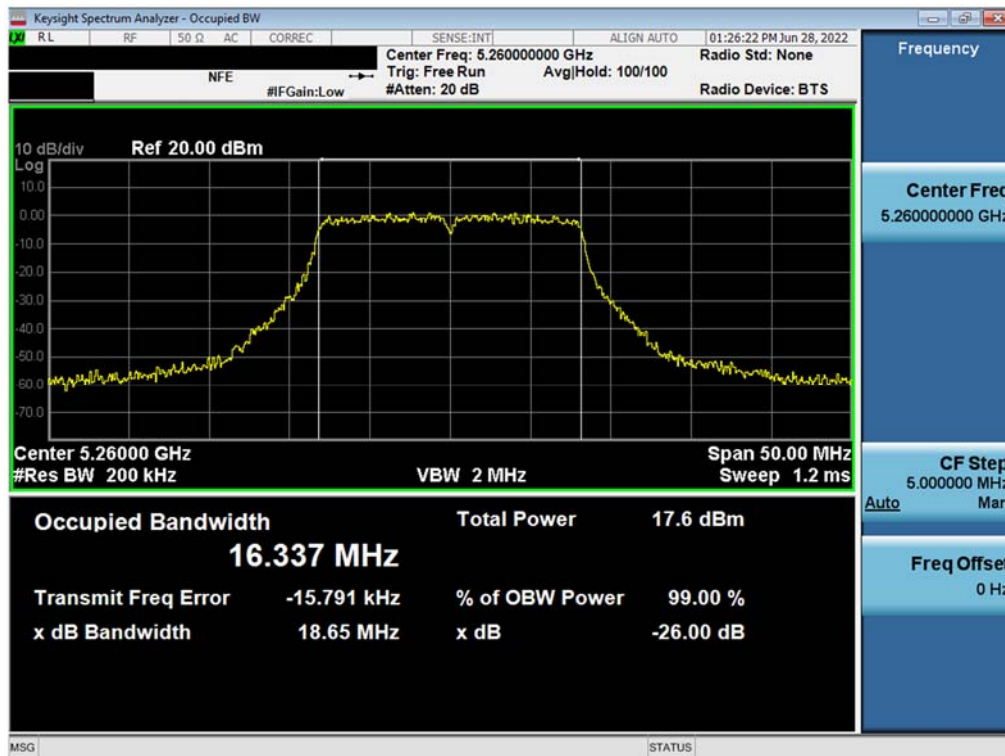


Plot 7-71. 26dB Bandwidth Plot MIMO ANT2 (802.11ac – 160MHz BW (UNII Band 1/2A) – Ch. 50)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 52 of 209

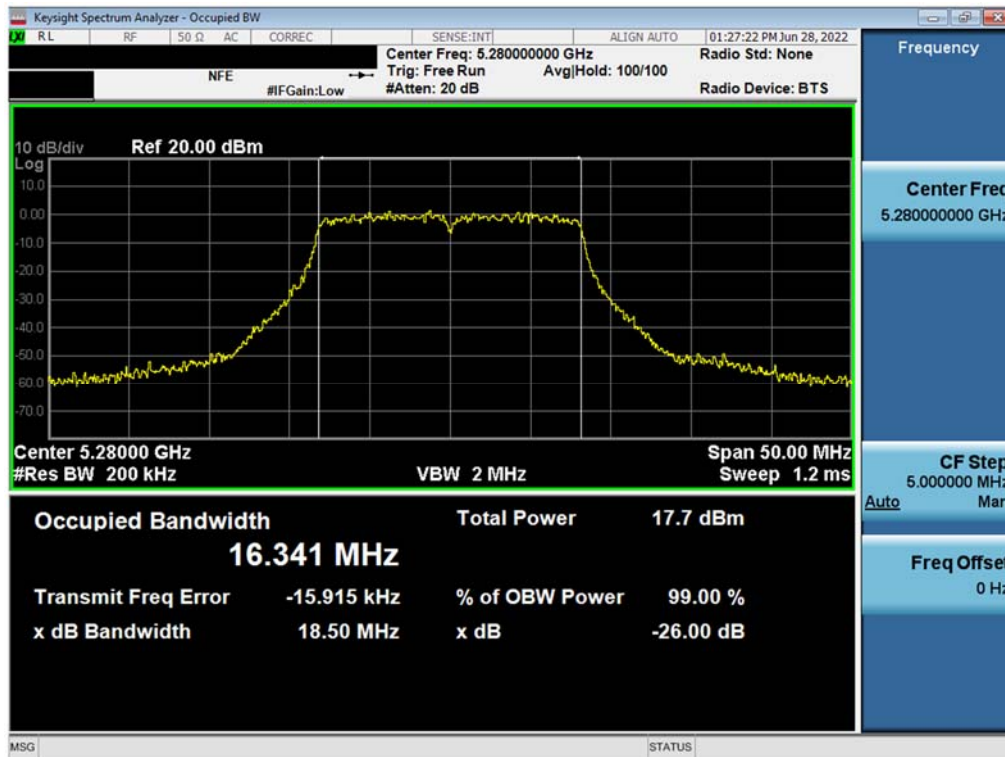


Plot 7-72. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 160MHz BW (UNII Band 1/2A) – Ch. 50)

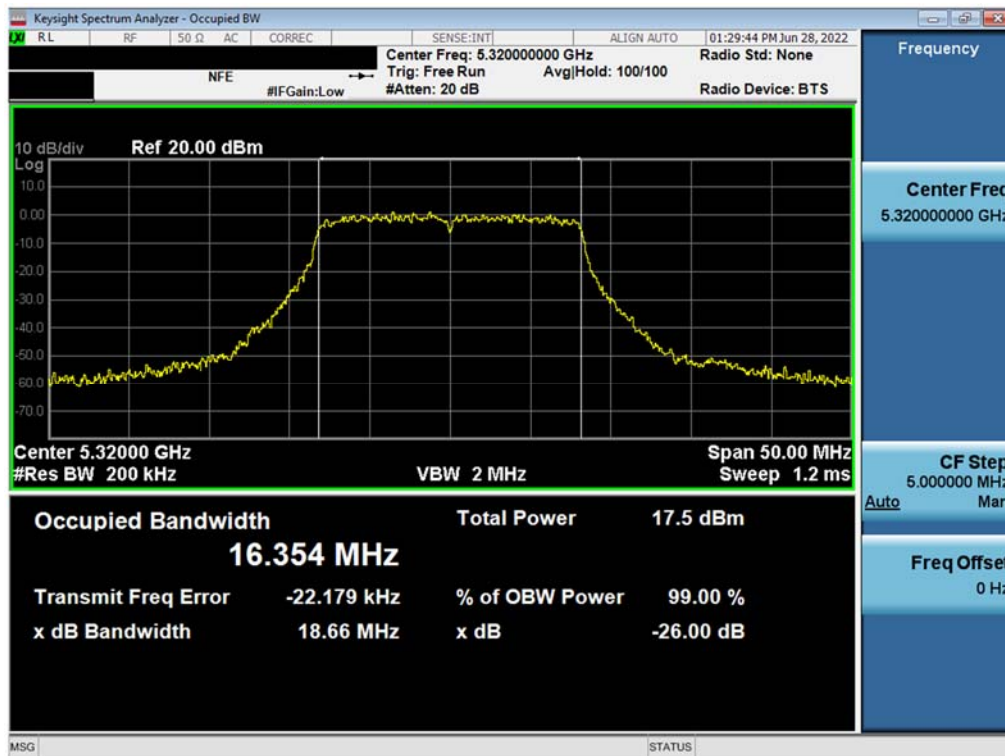


Plot 7-73. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 53 of 209



Plot 7-74. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 2A) – Ch. 56)

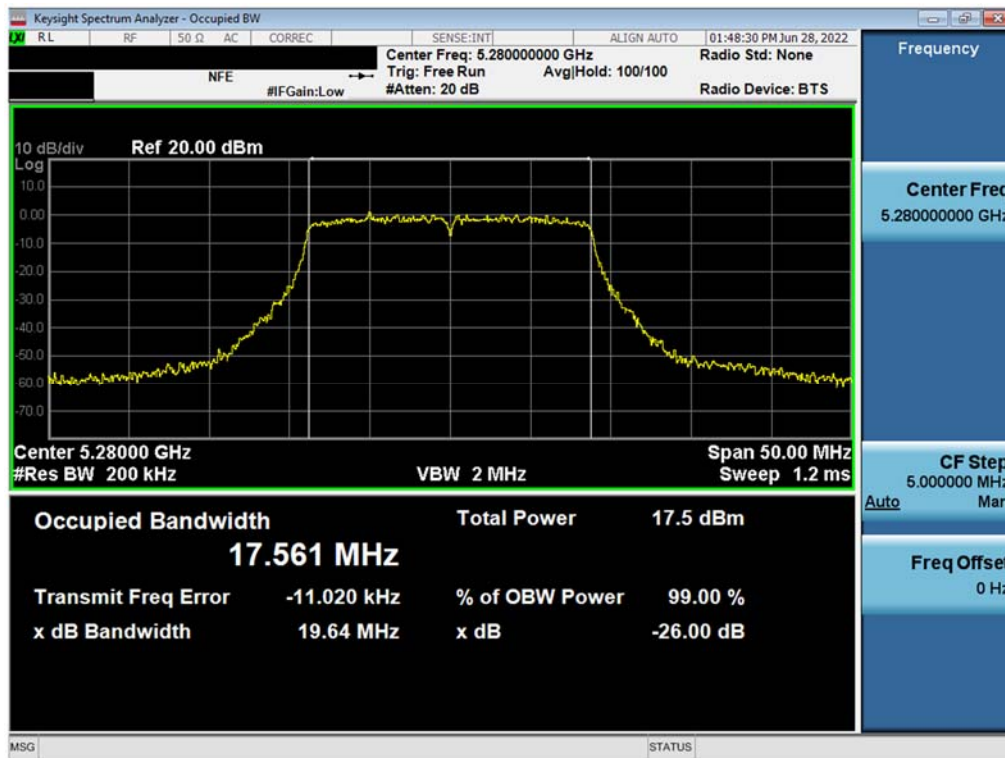


Plot 7-75. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 54 of 209

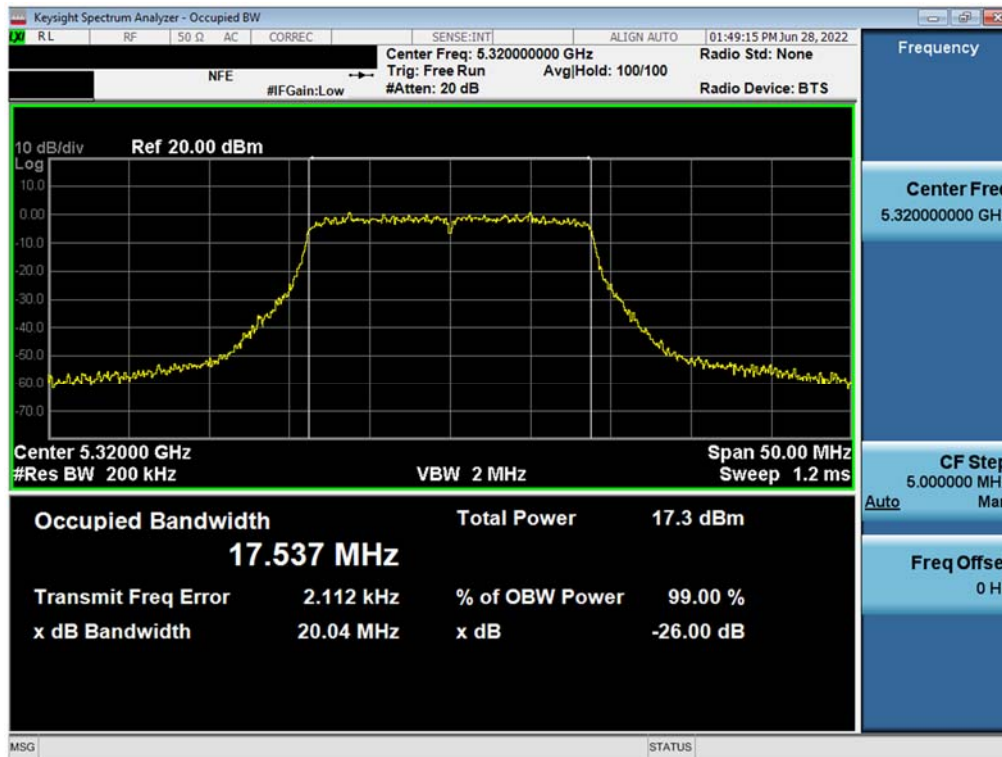


Plot 7-76. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 2A) – Ch. 52)

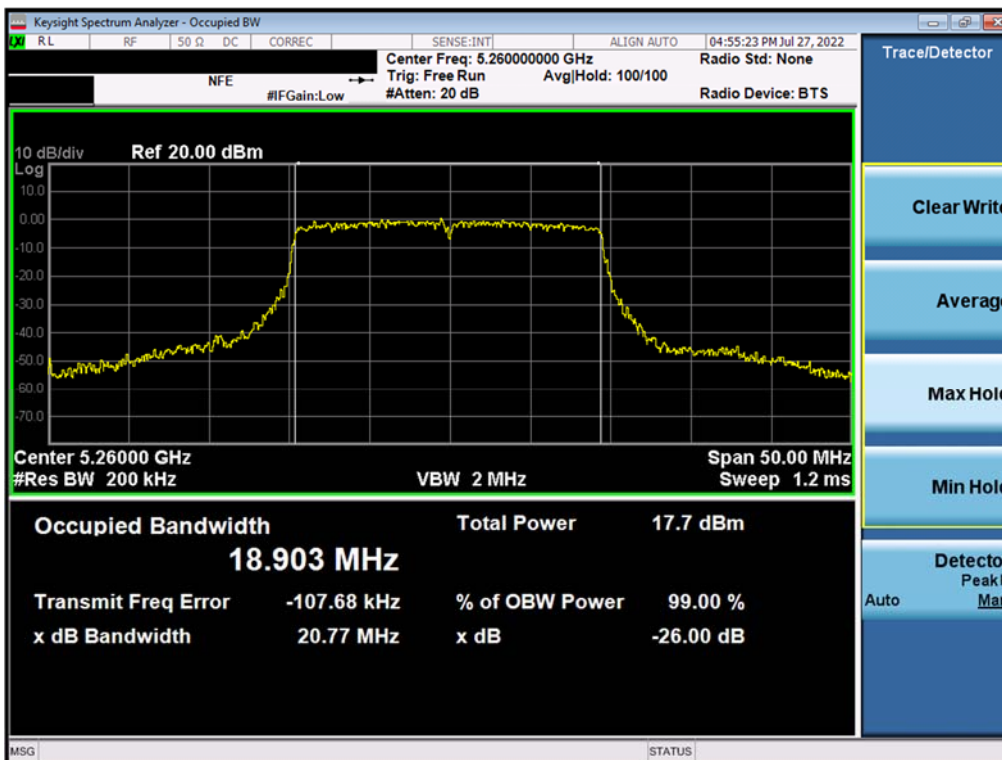


Plot 7-77. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 2A) – Ch. 56)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 55 of 209

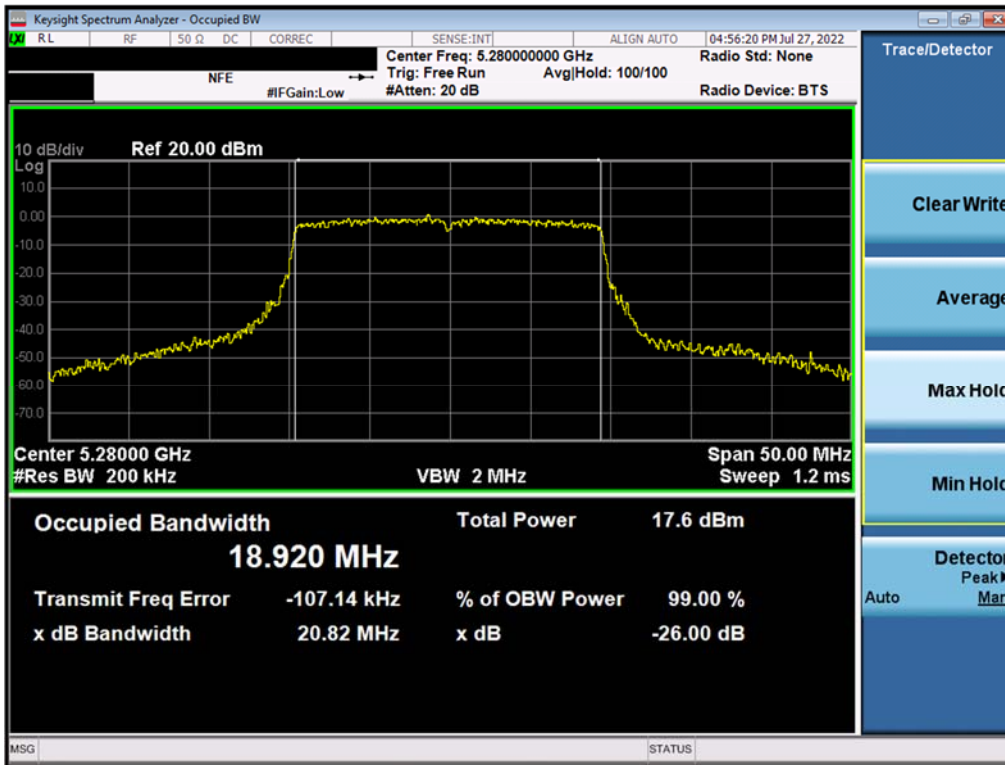


Plot 7-78. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 2A) – Ch. 64)

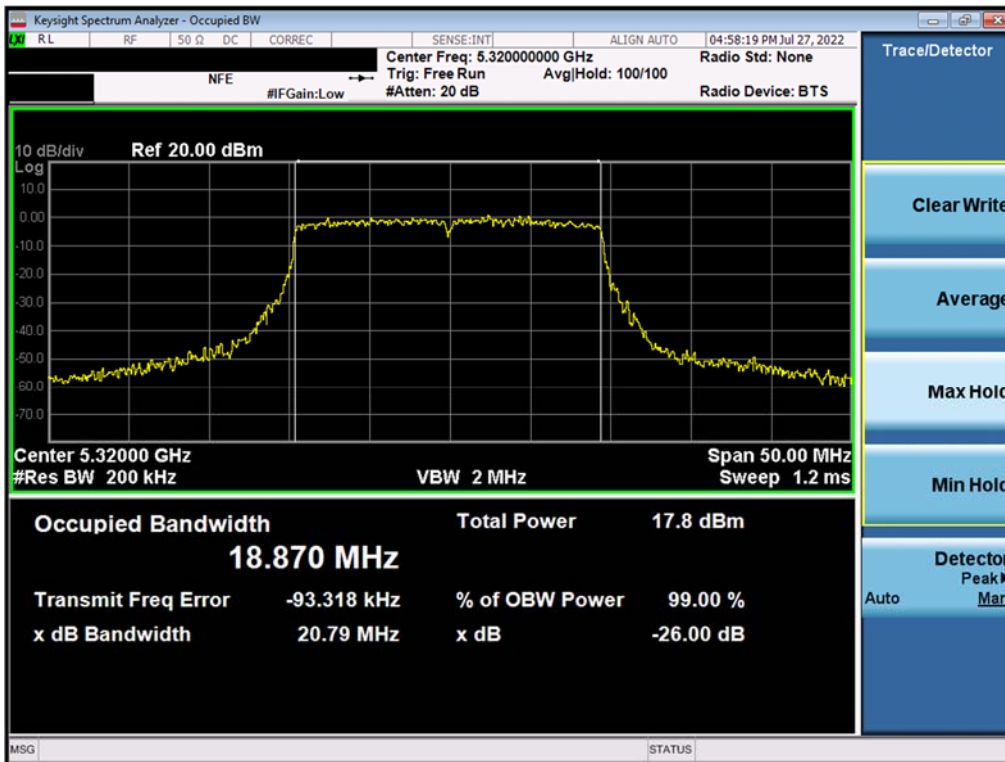


Plot 7-79. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 2A) – Ch. 52)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 56 of 209

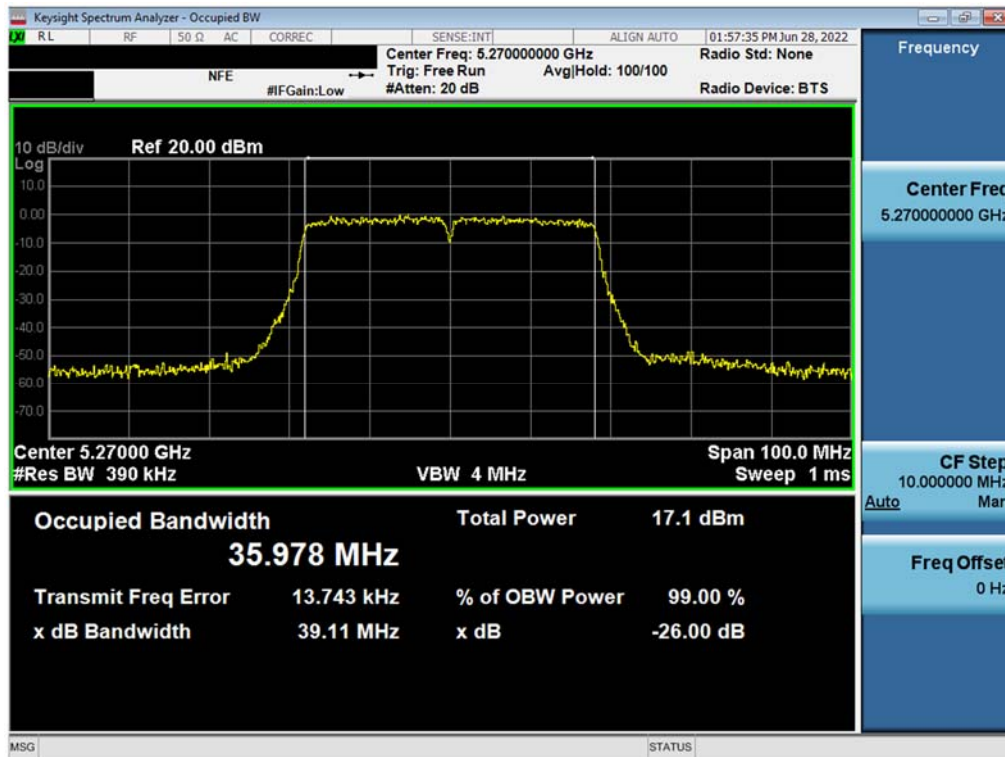


Plot 7-80. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 2A) – Ch. 56)

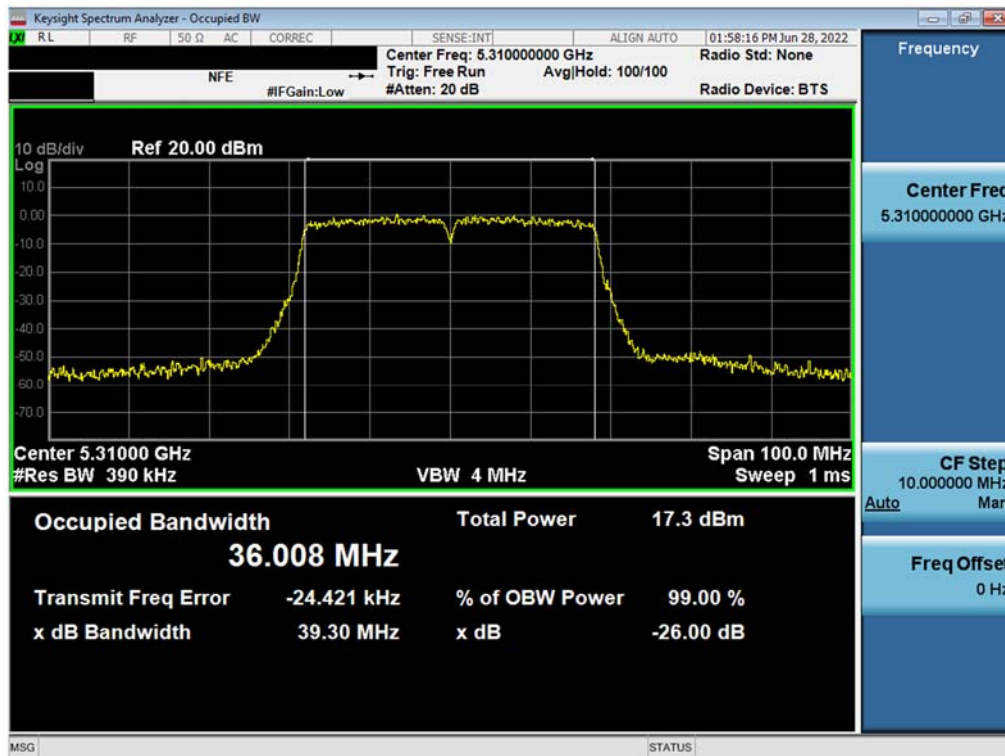


Plot 7-81. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 2A) – Ch. 64)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 57 of 209

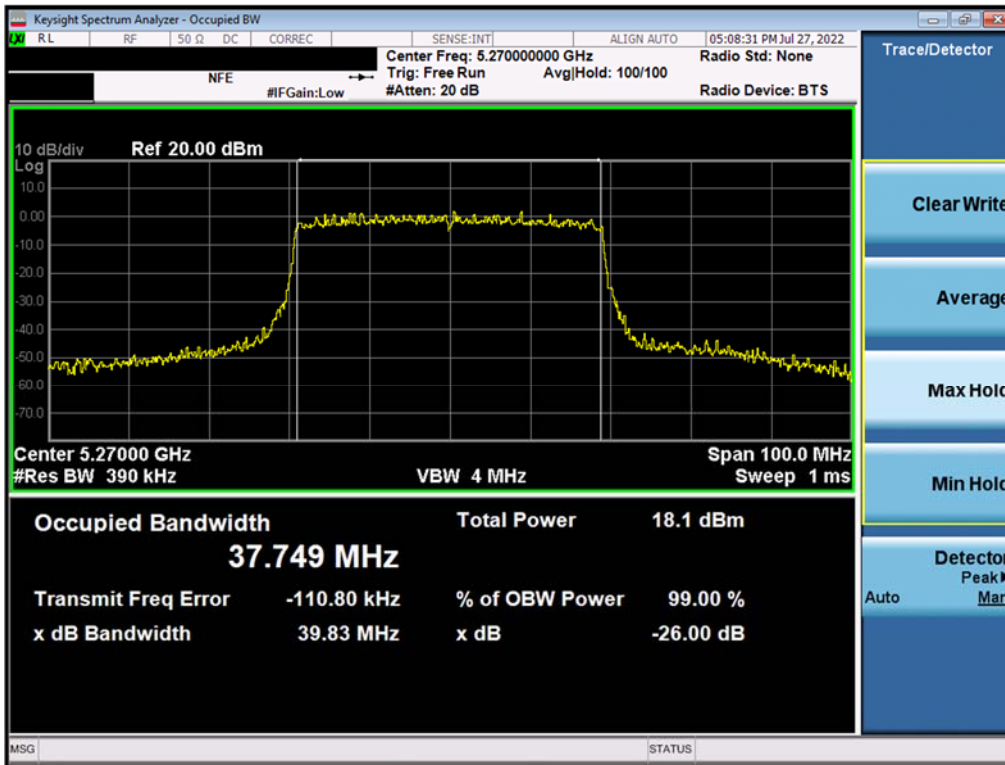


Plot 7-82. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 40MHz BW (UNII Band 2A) – Ch. 54)

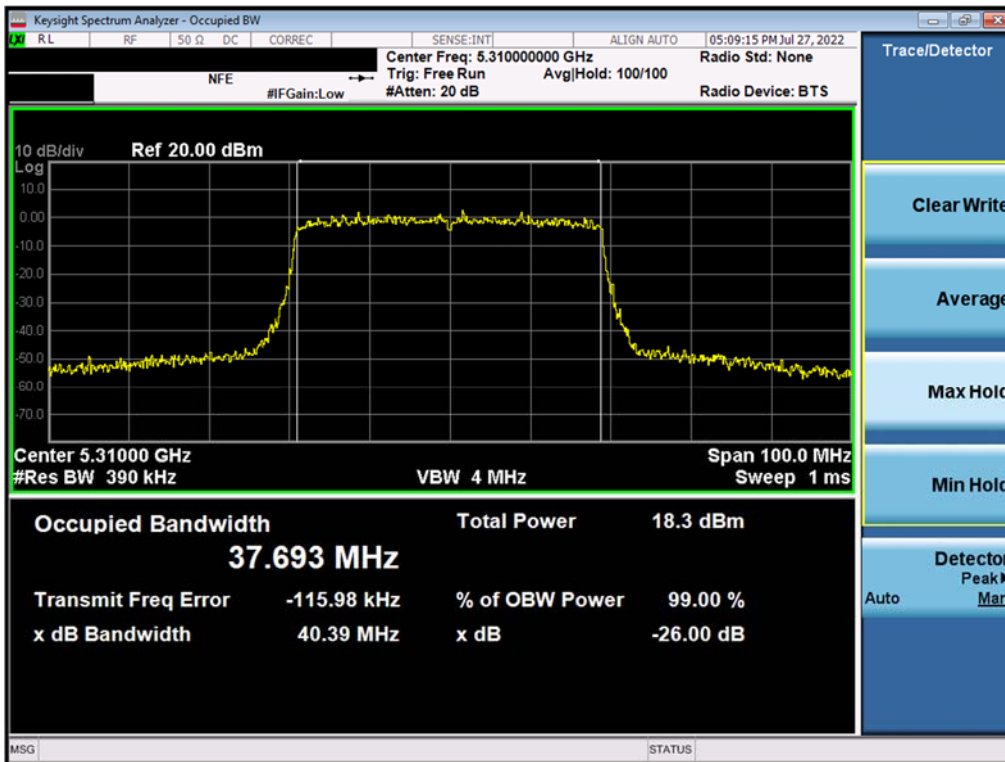


Plot 7-83. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 40MHz BW (UNII Band 2A) – Ch. 62)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 58 of 209

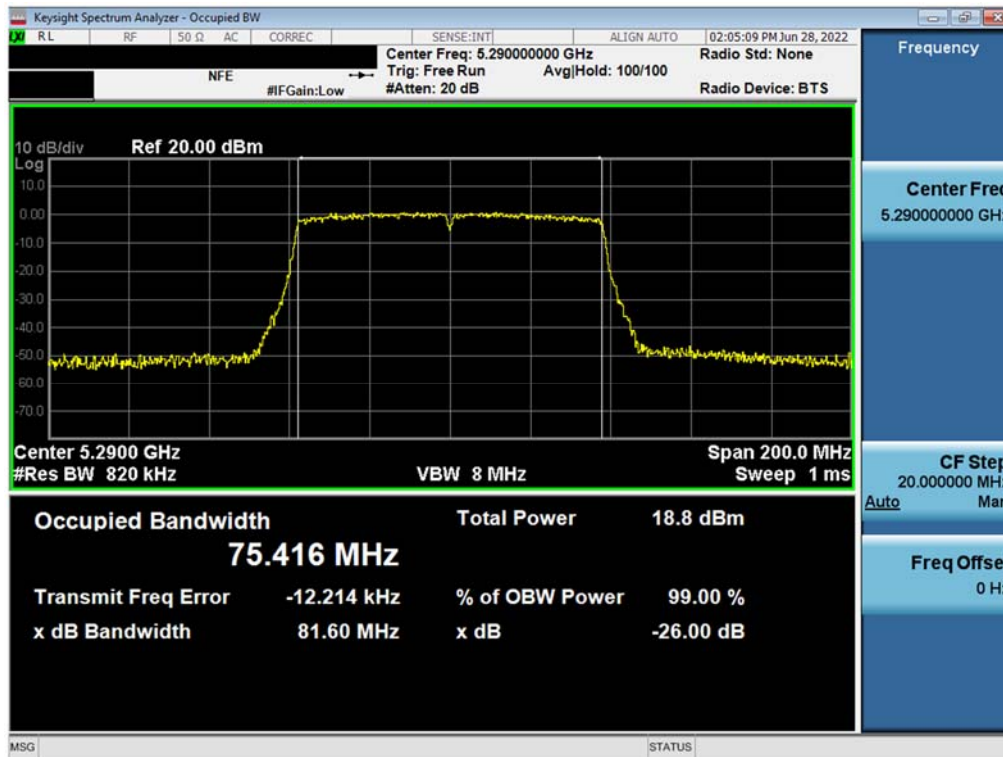


Plot 7-84. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 40MHz BW (UNII Band 2A) – Ch. 54)

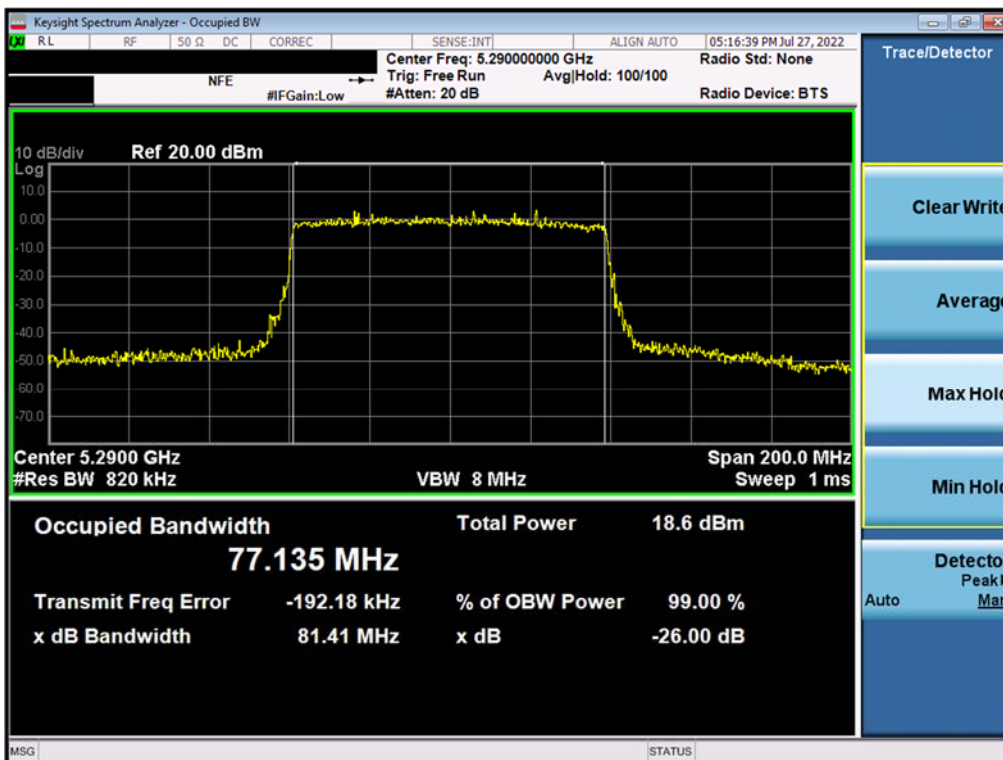


Plot 7-85. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 40MHz BW (UNII Band 2A) – Ch. 62)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 59 of 209

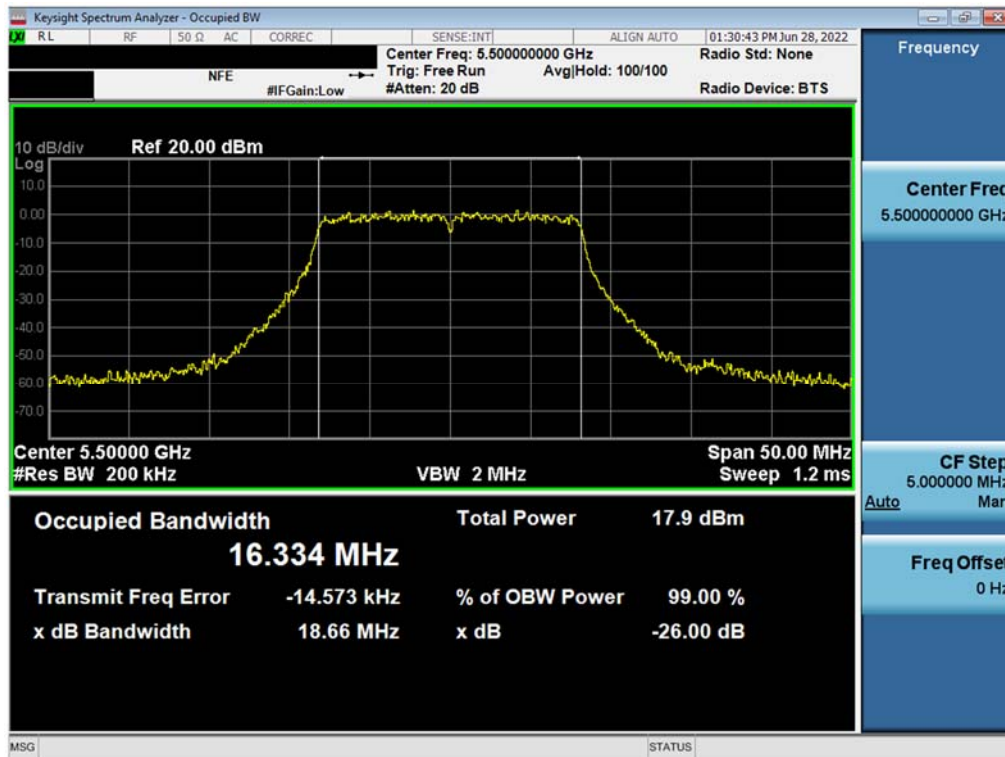


Plot 7-86. 26dB Bandwidth Plot MIMO ANT2 (802.11ac – 80MHz BW (UNII Band 2A) – Ch. 58)

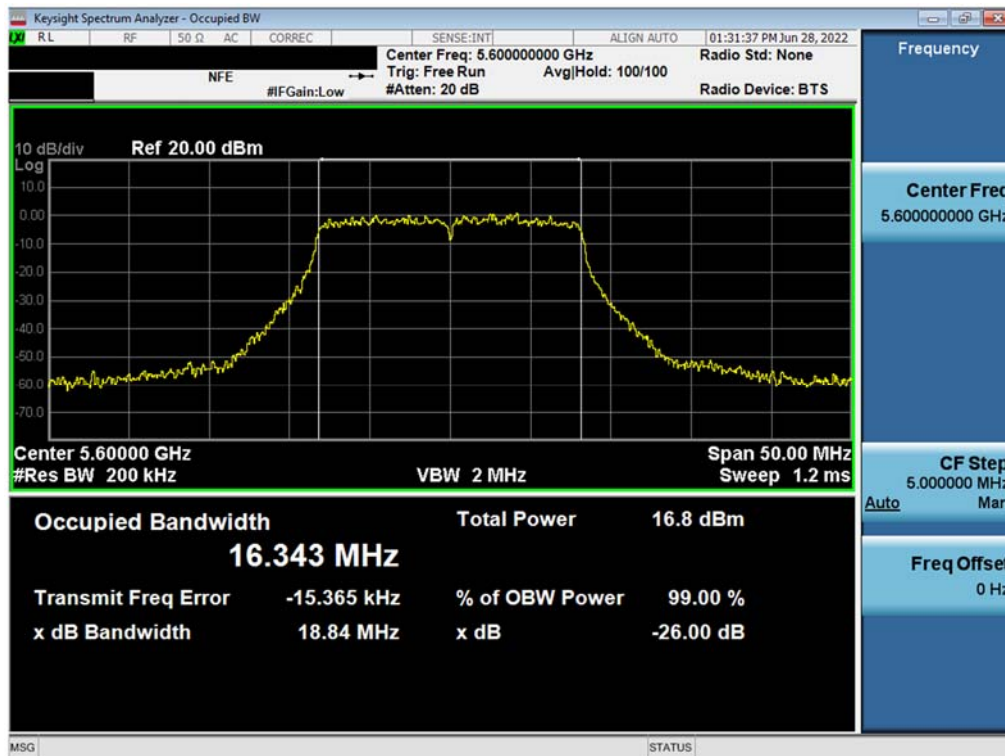


Plot 7-87. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 80MHz BW (UNII Band 2A) – Ch. 58)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 60 of 209

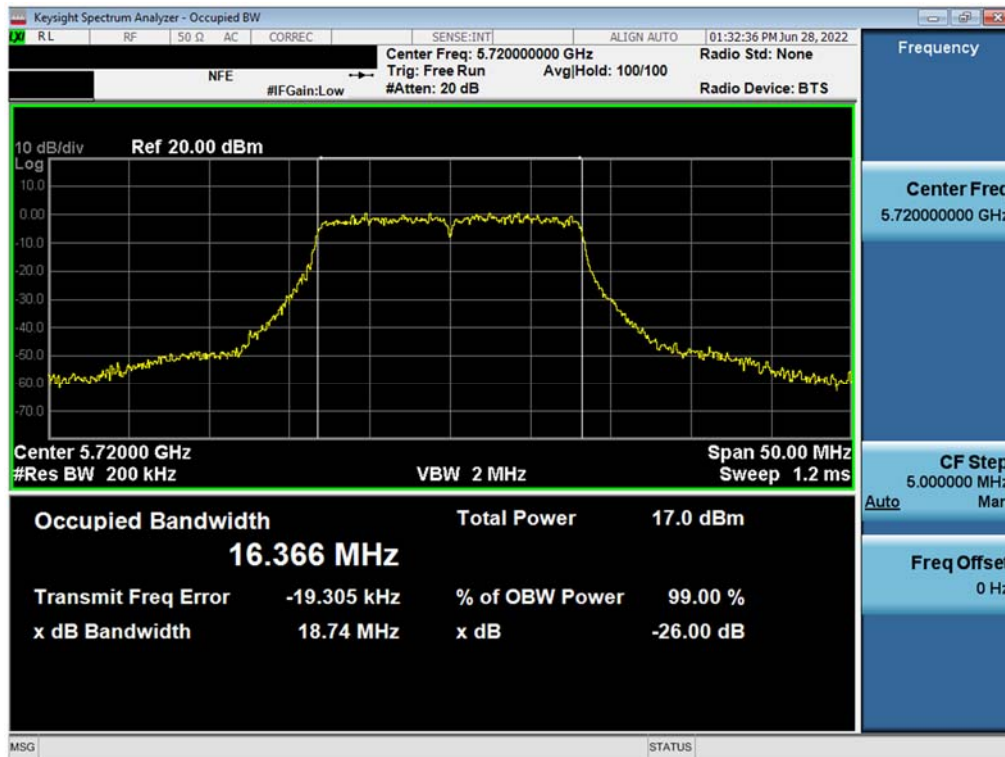


Plot 7-88. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 2C) – Ch. 100)

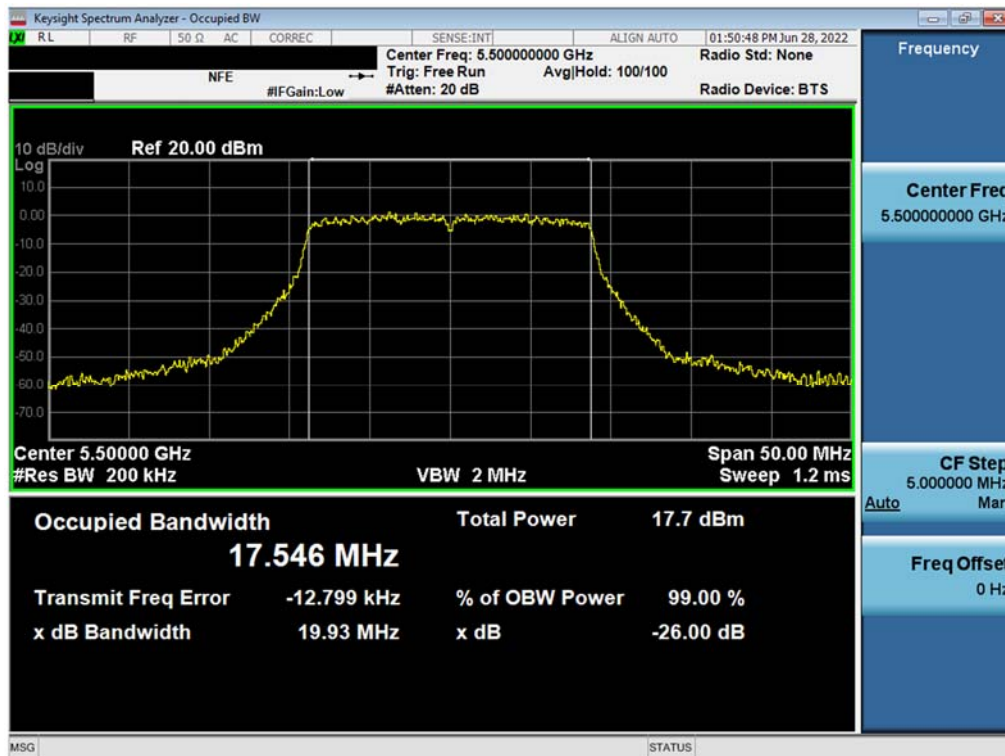


Plot 7-89. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 2C) – Ch. 120)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 61 of 209



Plot 7-90. 26dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 2C) – Ch. 144)

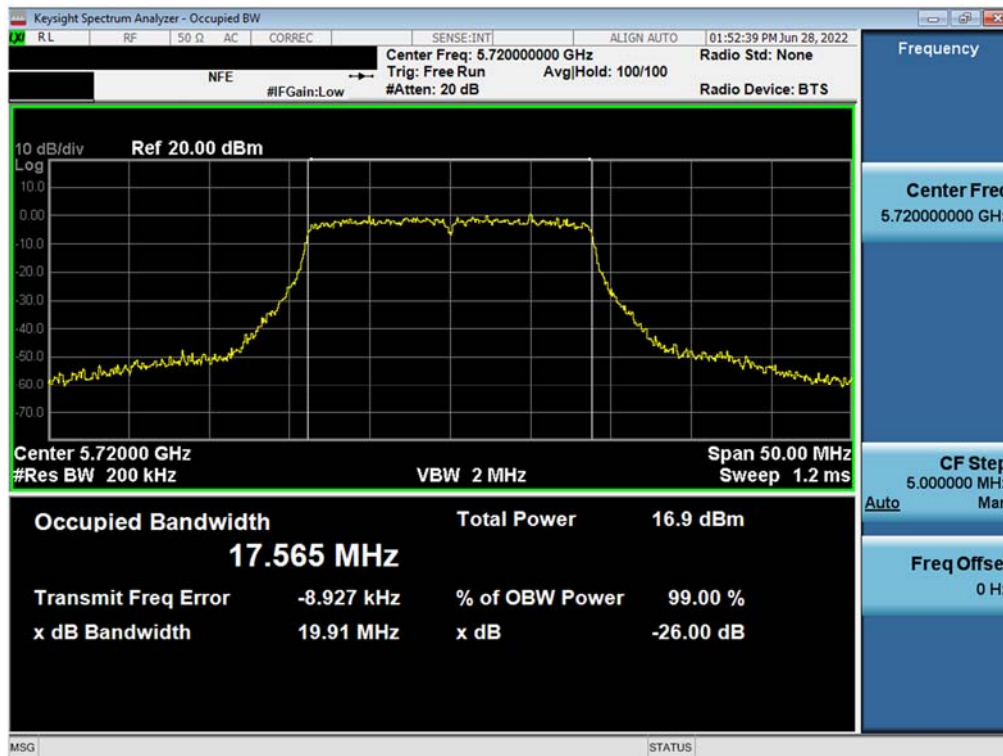


Plot 7-91. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 2C) – Ch. 100)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 62 of 209

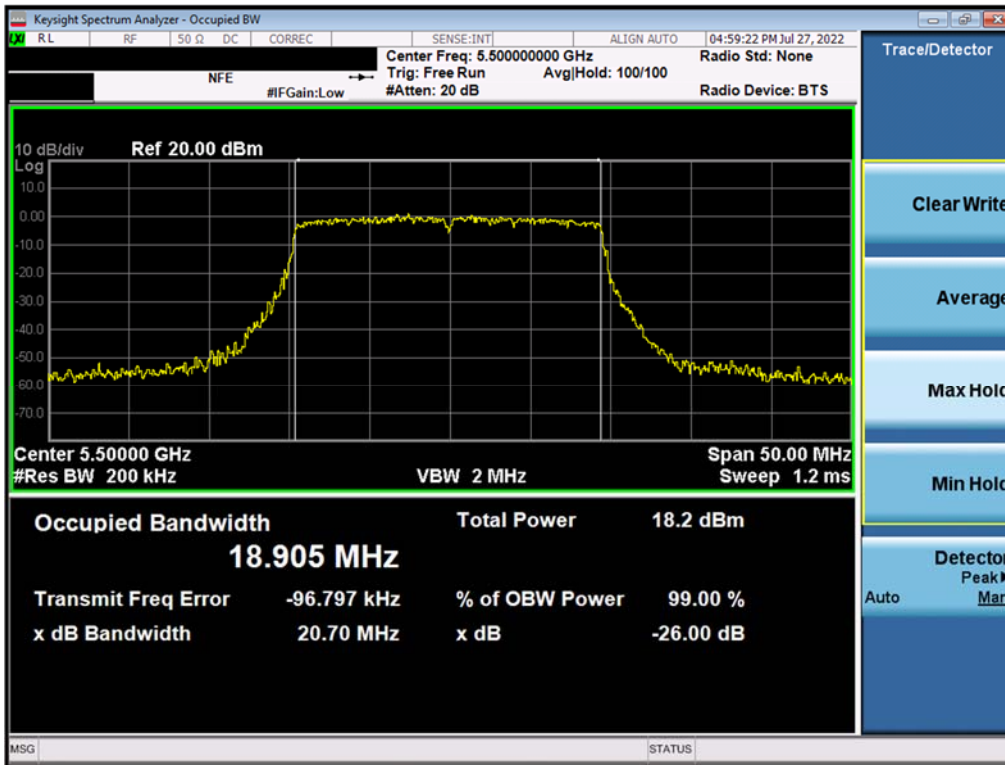


Plot 7-92. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 2C) – Ch. 120)

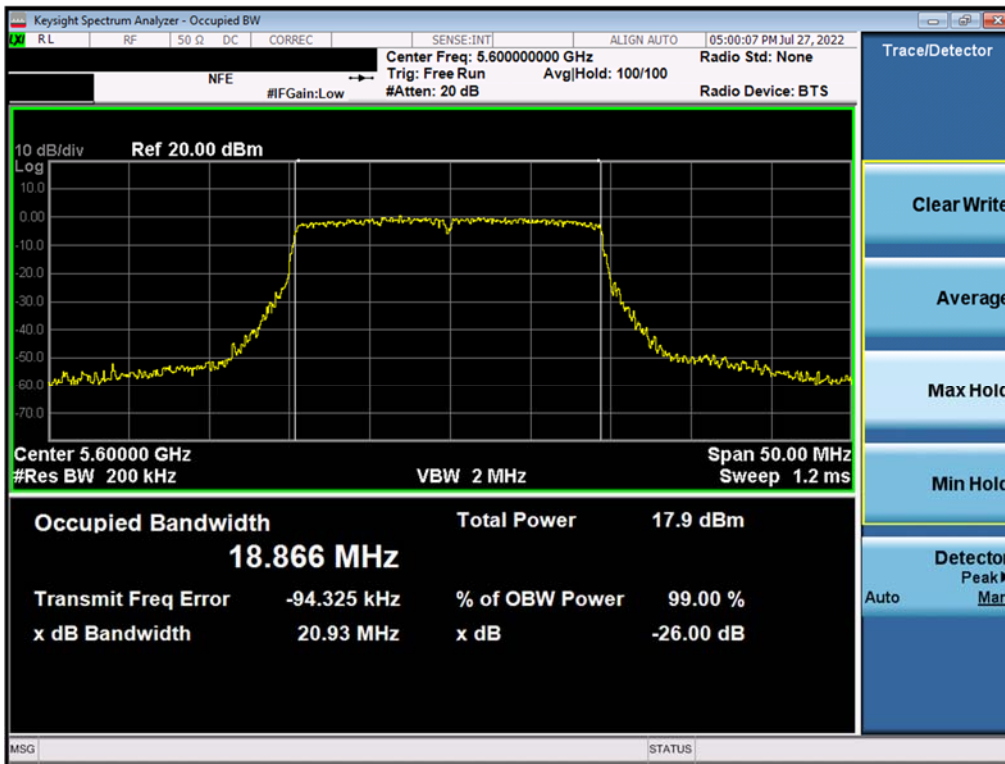


Plot 7-93. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 20MHz BW (UNII Band 2C) – Ch. 144)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 63 of 209

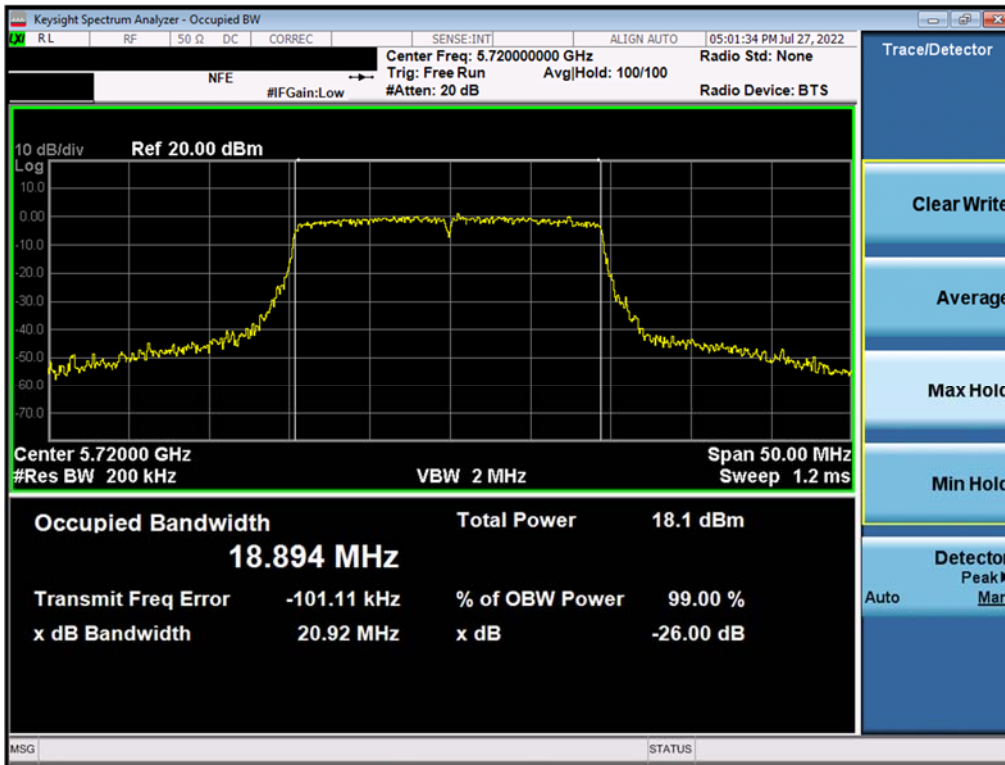


Plot 7-94. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 2C) – Ch. 100)



Plot 7-95. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 2C) – Ch. 120)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 64 of 209

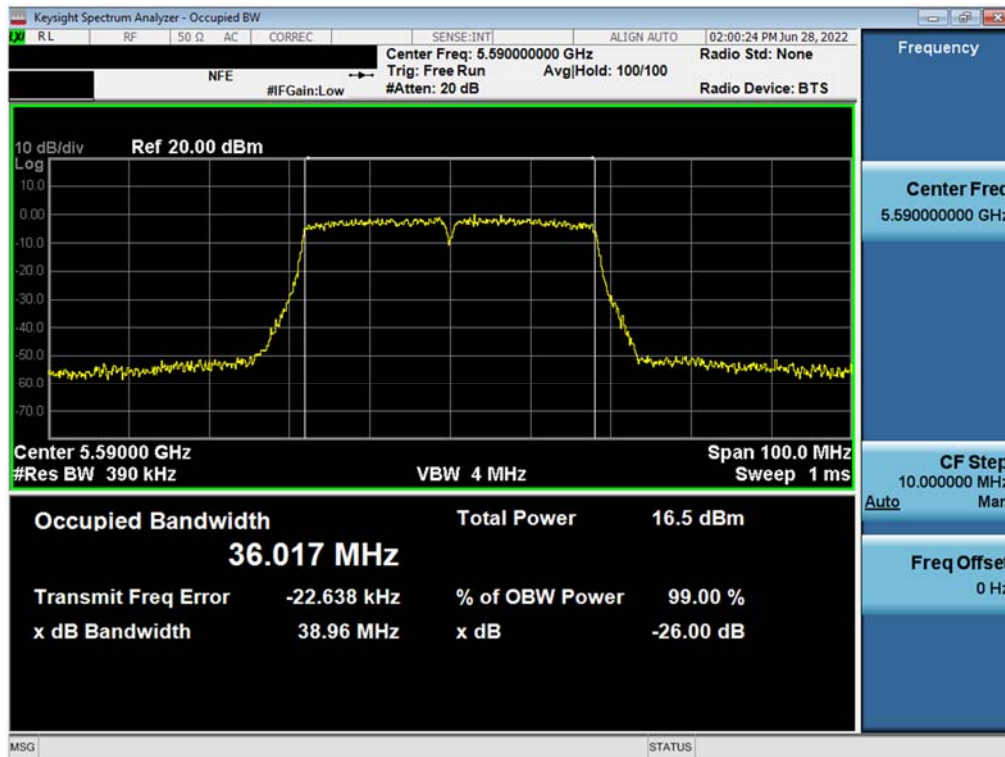


Plot 7-96. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 20MHz BW (UNII Band 2C) – Ch. 144)

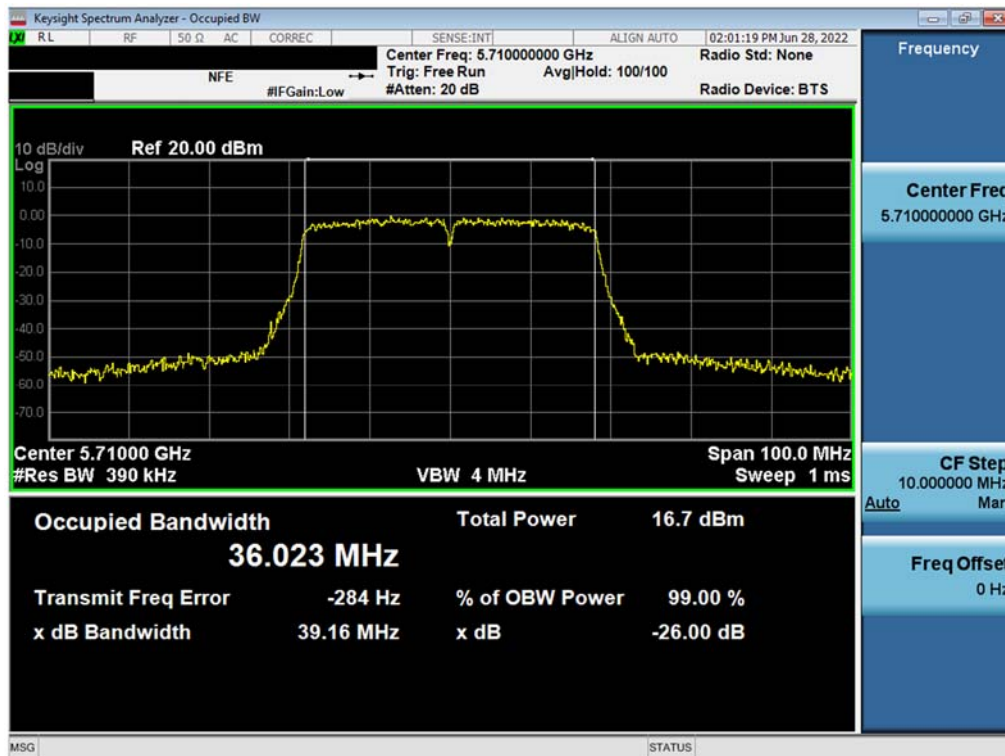


Plot 7-97. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 40MHz BW (UNII Band 2C) – Ch. 102)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 65 of 209

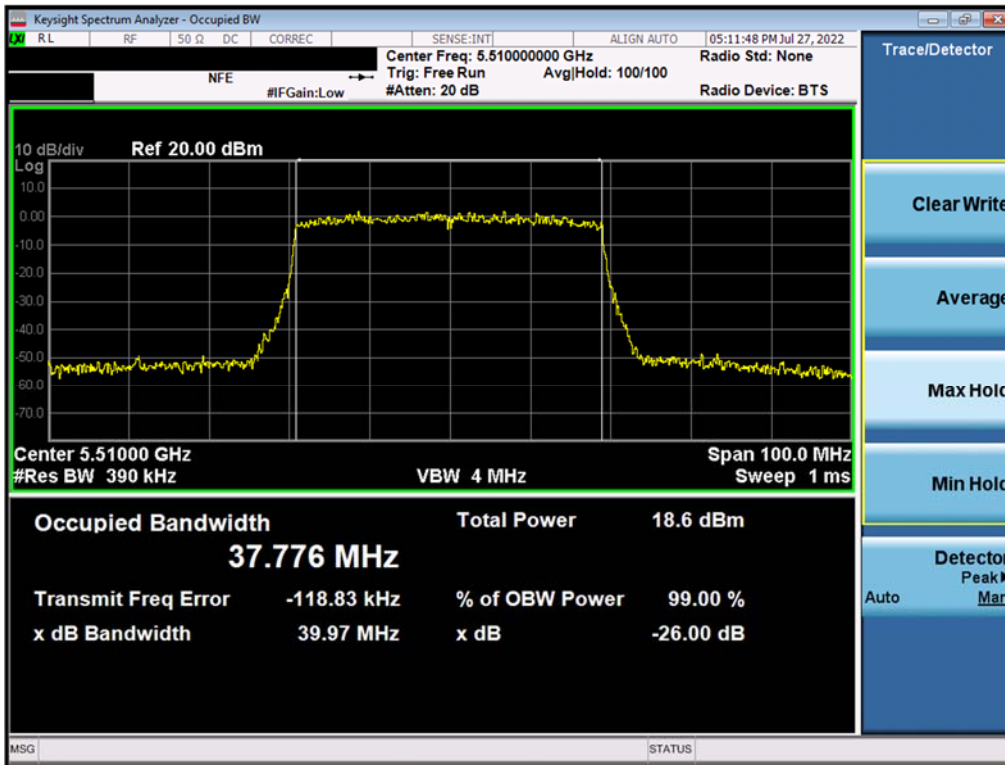


Plot 7-98. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 40MHz BW (UNII Band 2C) – Ch. 118)

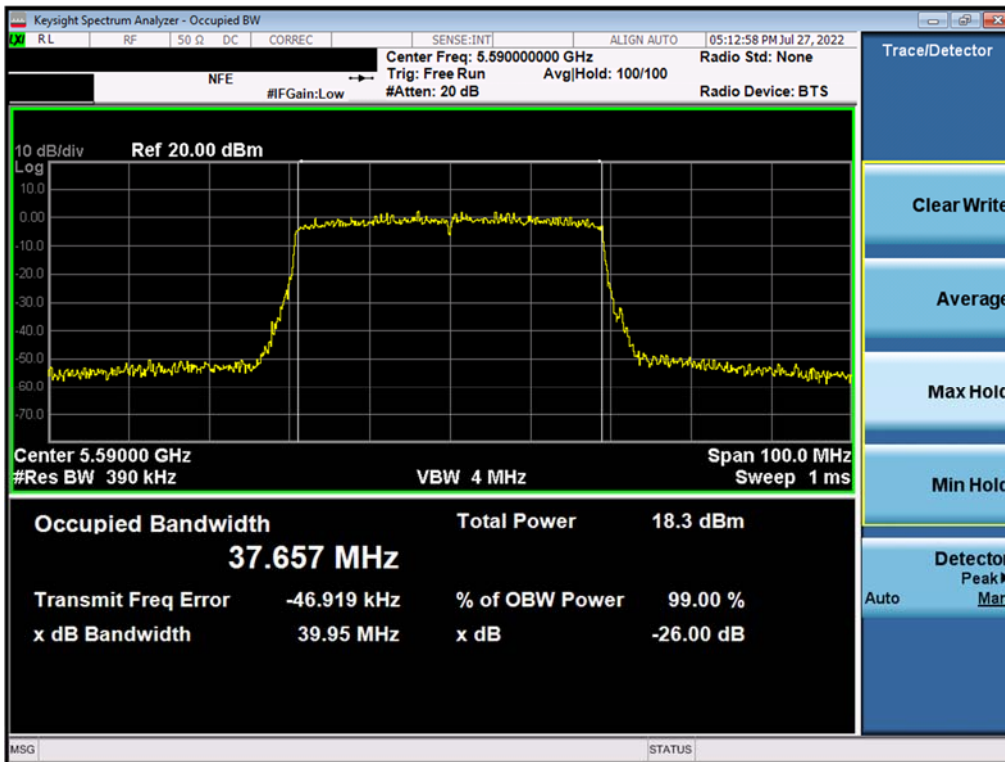


Plot 7-99. 26dB Bandwidth Plot MIMO ANT2 (802.11n – 40MHz BW (UNII Band 2C) – Ch. 142)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 66 of 209

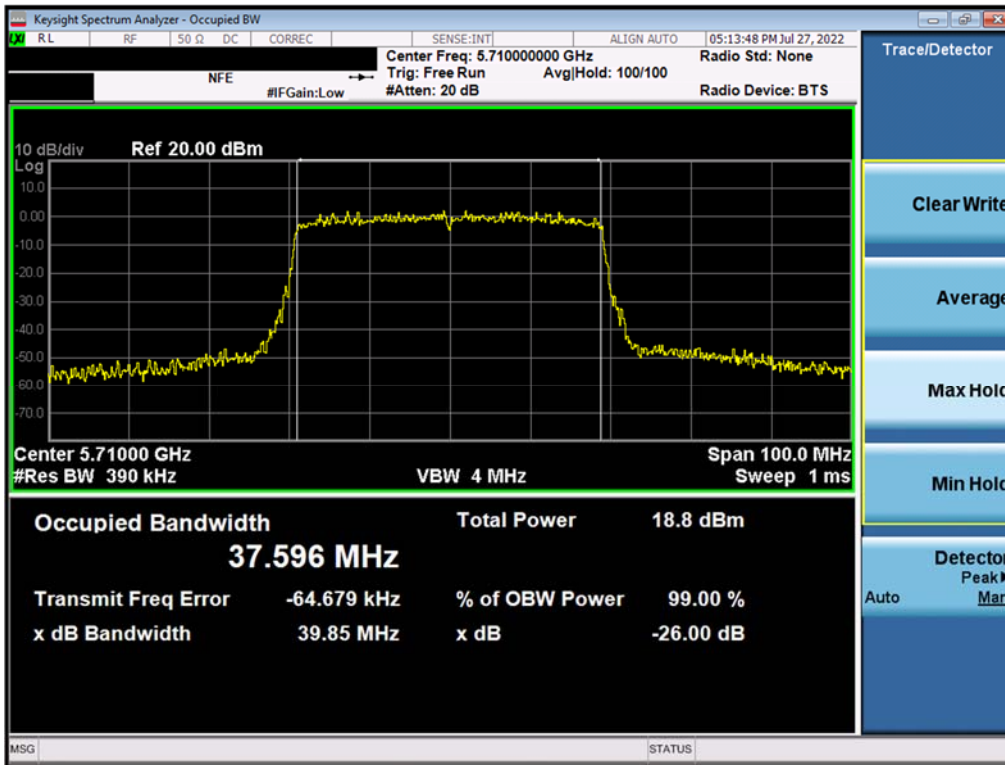


Plot 7-100. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 40MHz BW (UNII Band 2C) – Ch. 102)

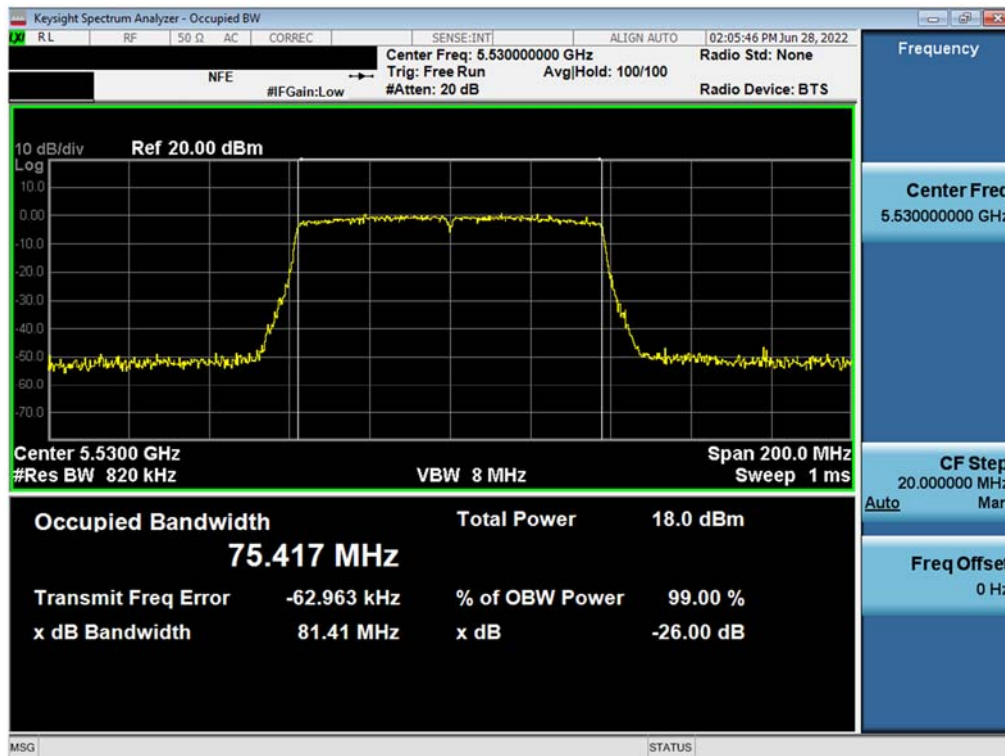


Plot 7-101. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 40MHz BW (UNII Band 2C) – Ch. 118)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 67 of 209

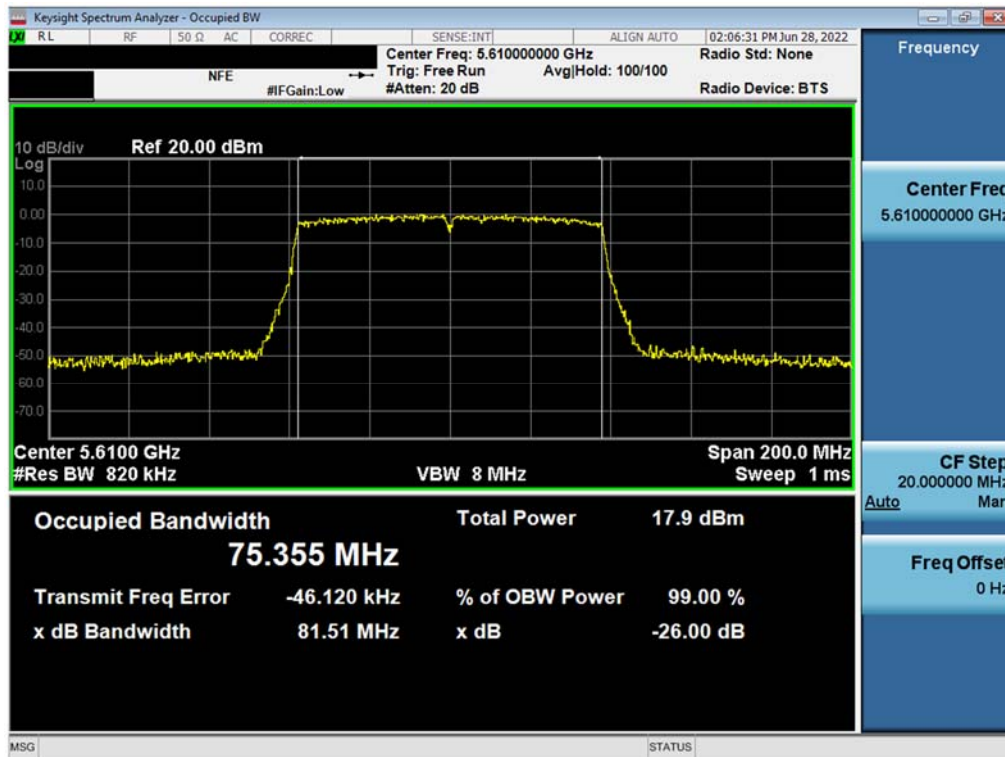


Plot 7-102. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 40MHz BW (UNII Band 2C) – Ch. 142

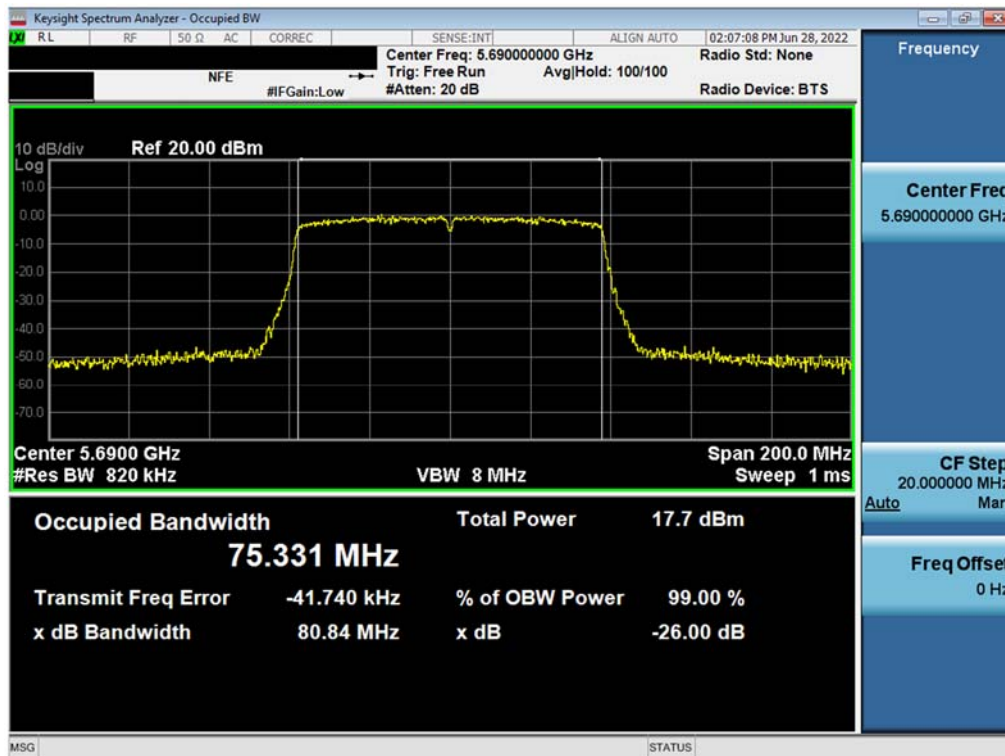


Plot 7-103. 26dB Bandwidth Plot MIMO ANT2 (802.11ac – 80MHz BW (UNII Band 2C) – Ch. 106)

FCC ID: PY7-58692W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset		Page 68 of 209

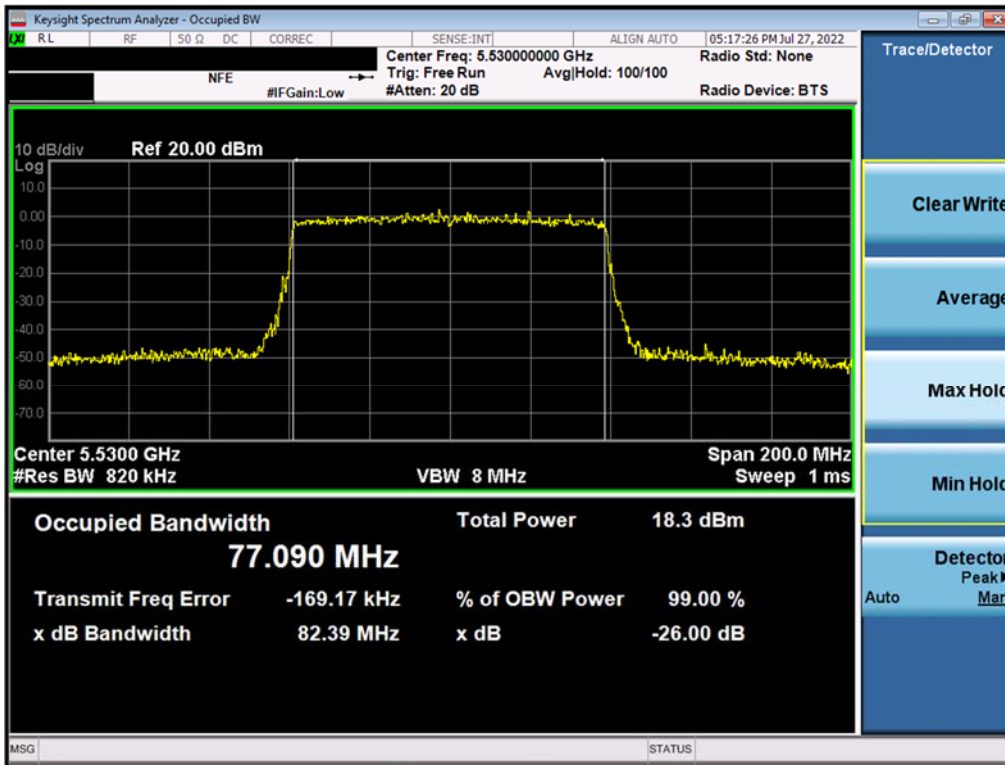


Plot 7-104. 26dB Bandwidth Plot MIMO ANT2 (802.11ac – 80MHz BW (UNII Band 2C) – Ch. 122)

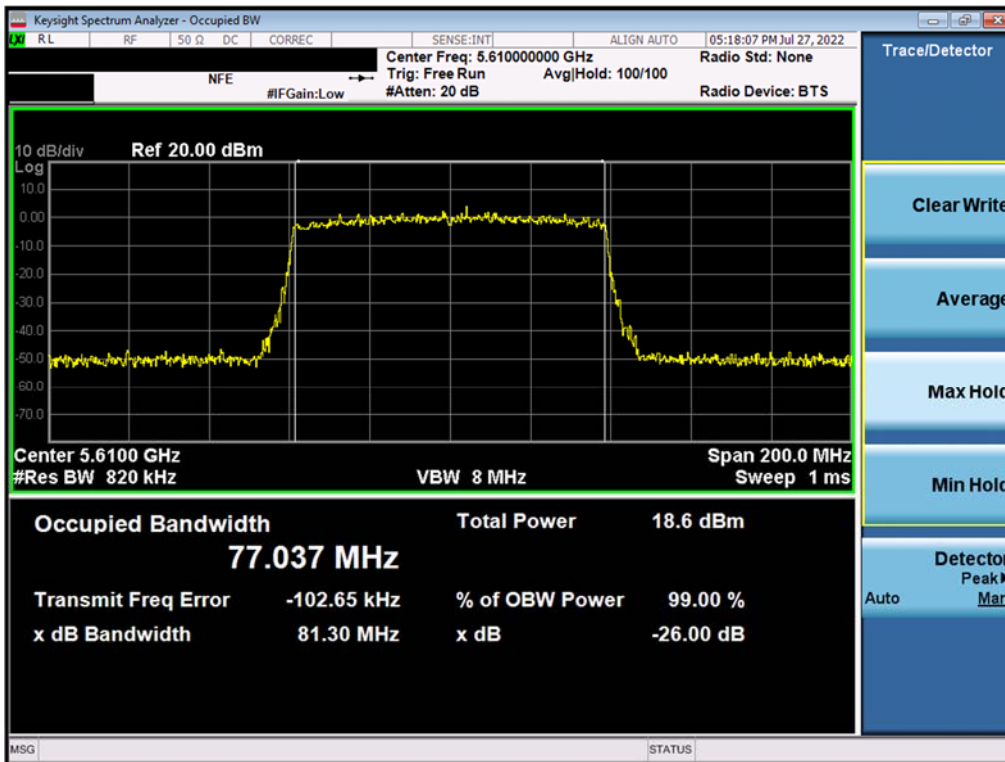


Plot 7-105. 26dB Bandwidth Plot MIMO ANT2 (802.11ac – 80MHz BW (UNII Band 2C) – Ch. 138)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 69 of 209



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



Plot 7-107. 26dB Bandwidth Plot MIMO ANT2 (802.11ax – 80MHz BW (UNII Band 2C) – Ch. 122)

FCC ID: PY7-58692W	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2207200079-10.PY7	Test Dates: 6/3/2022-7/29/2022	EUT Type: Portable Handset	Page 70 of 209