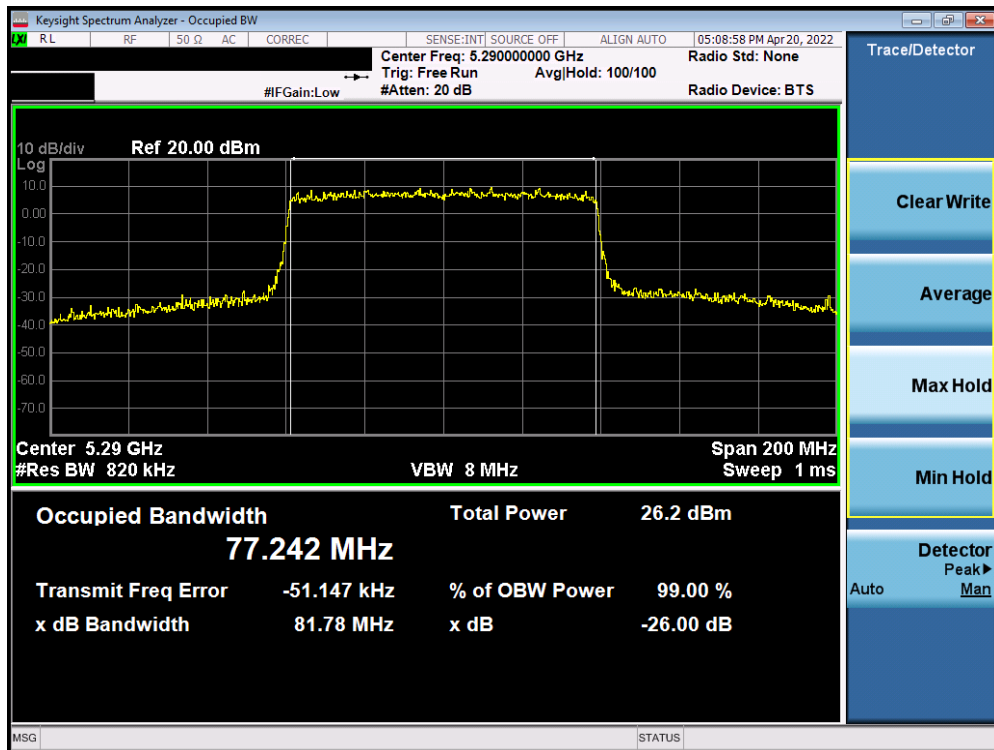
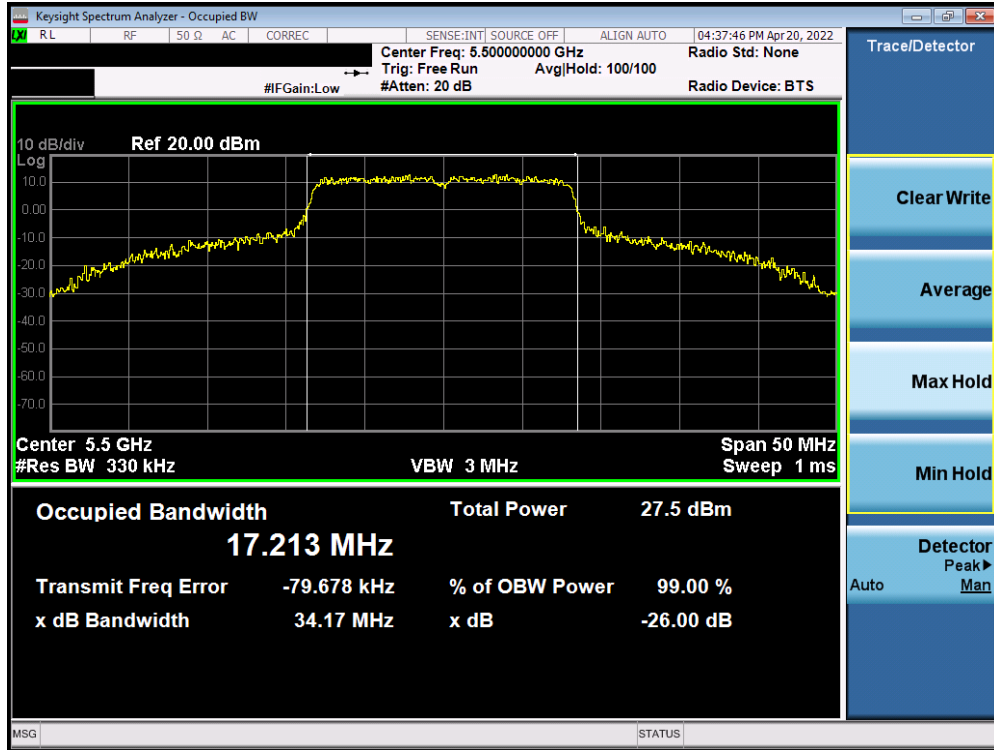


Plot 7-86. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

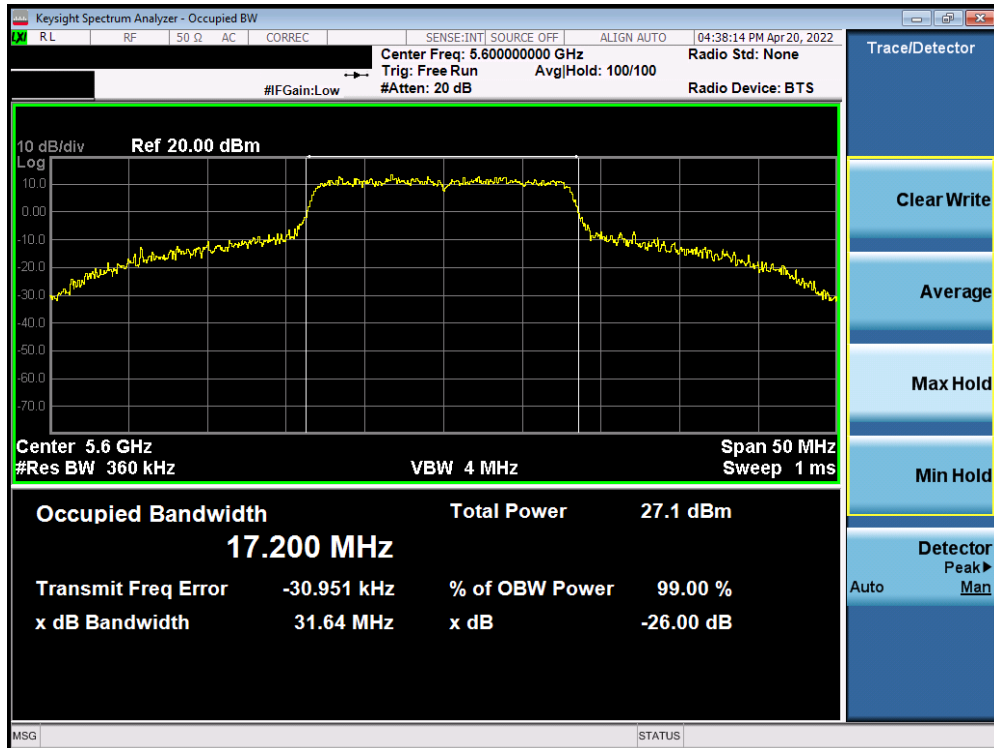


Plot 7-87. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 61 of 284

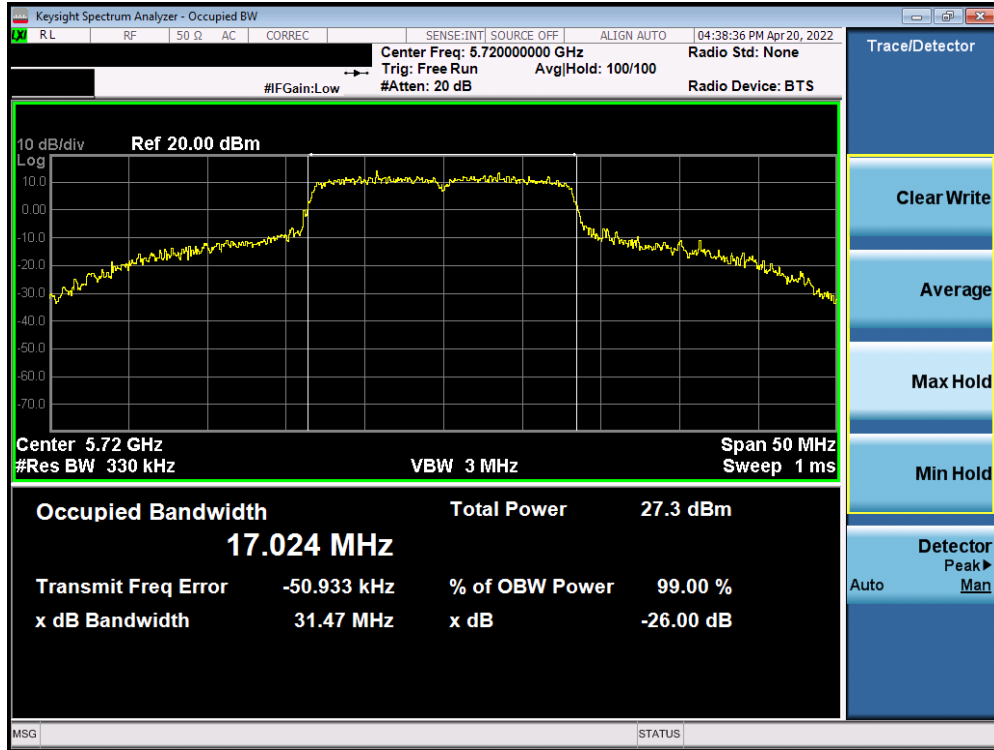


Plot 7-88. 26dB Bandwidth Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 100)

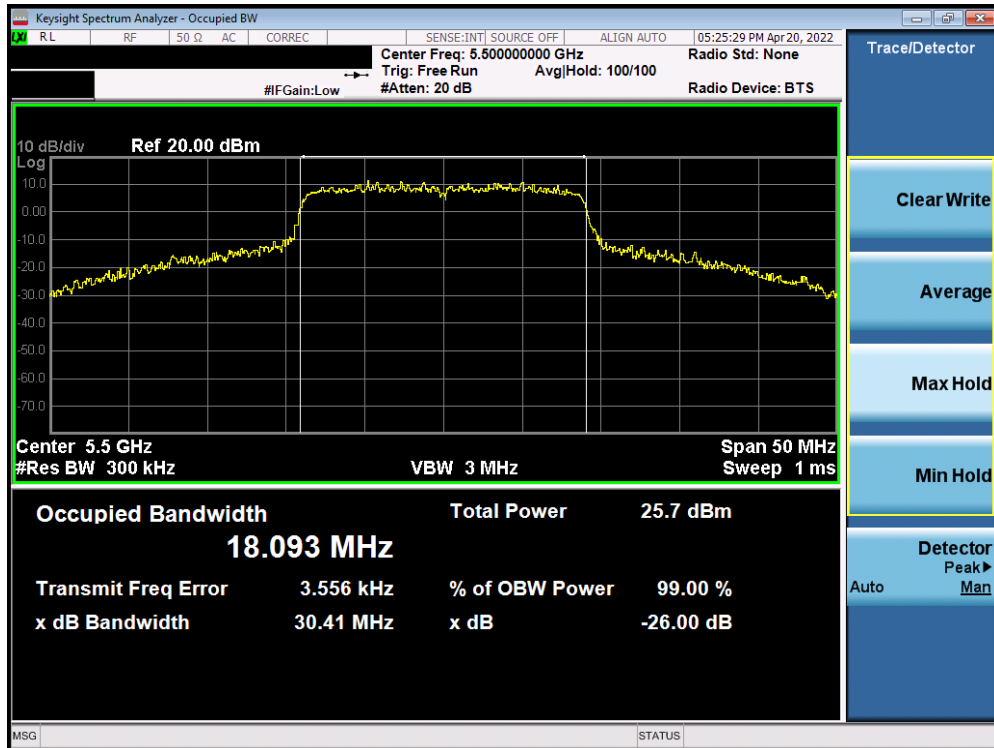


Plot 7-89. 26dB Bandwidth Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 116)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 62 of 284

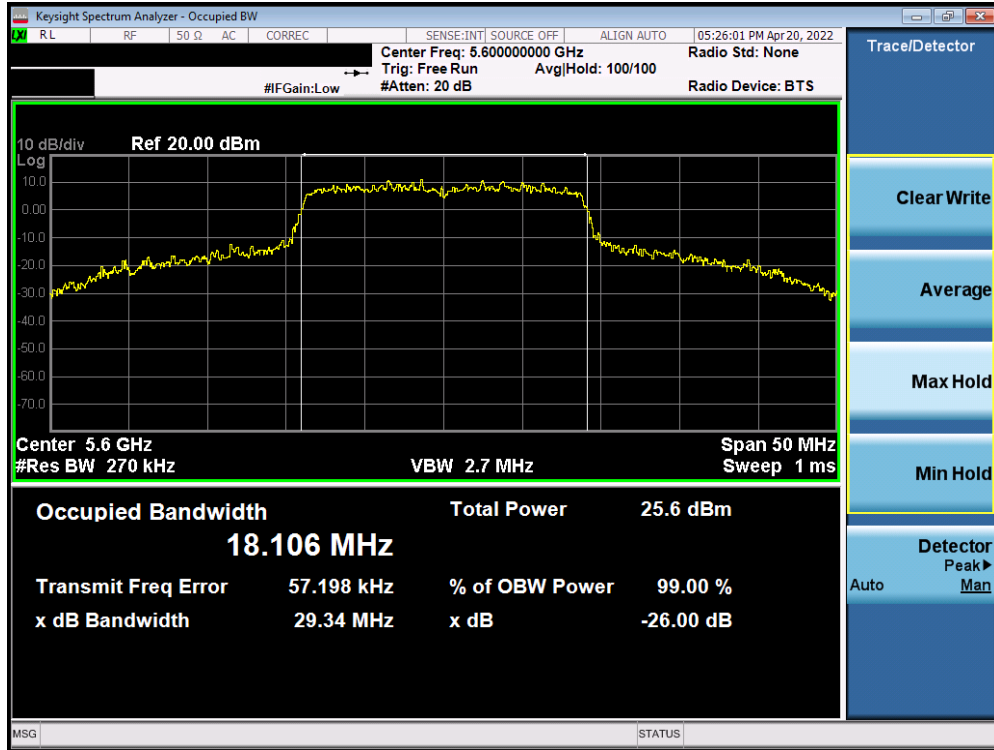


Plot 7-90. 26dB Bandwidth Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 140)

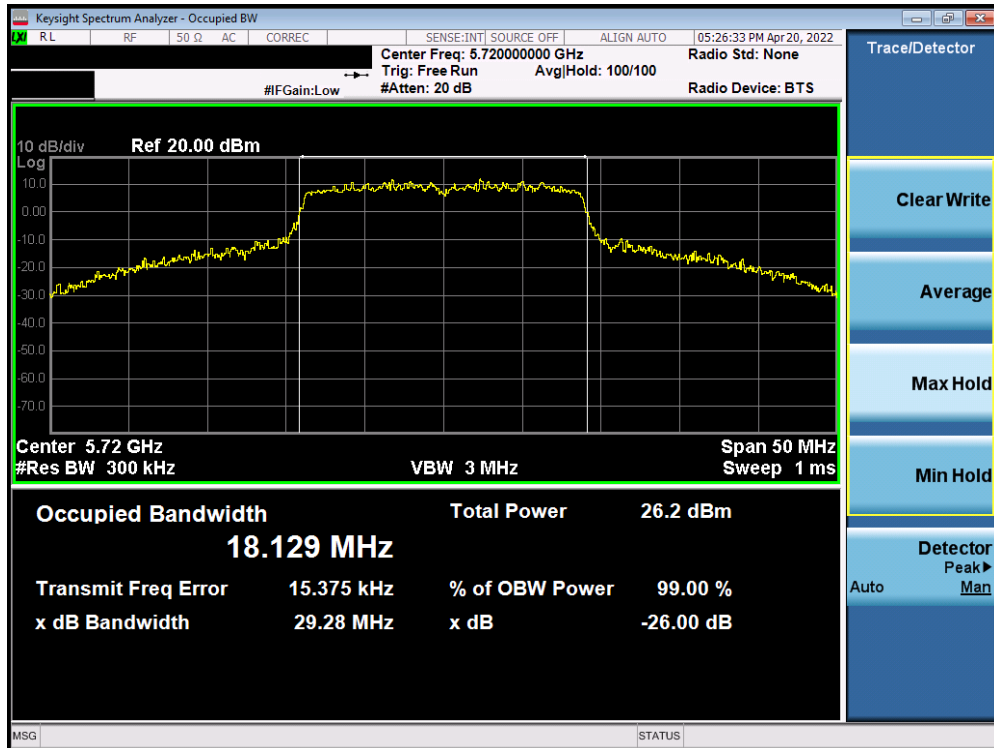


Plot 7-91. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 63 of 284

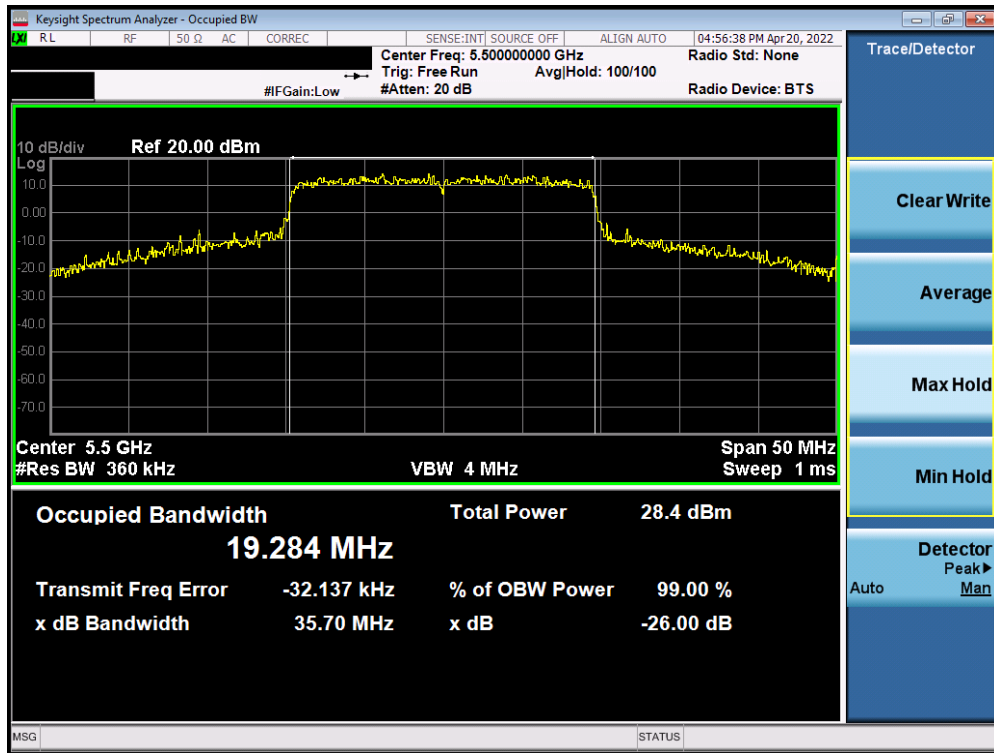


Plot 7-92. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

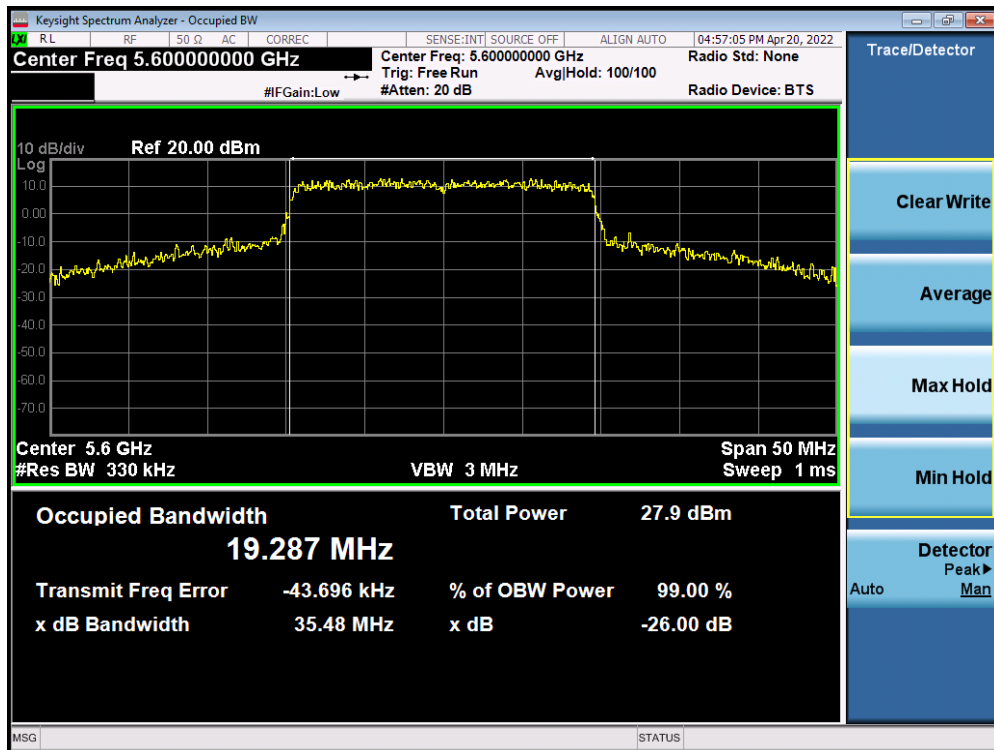


Plot 7-93. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 140)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 64 of 284

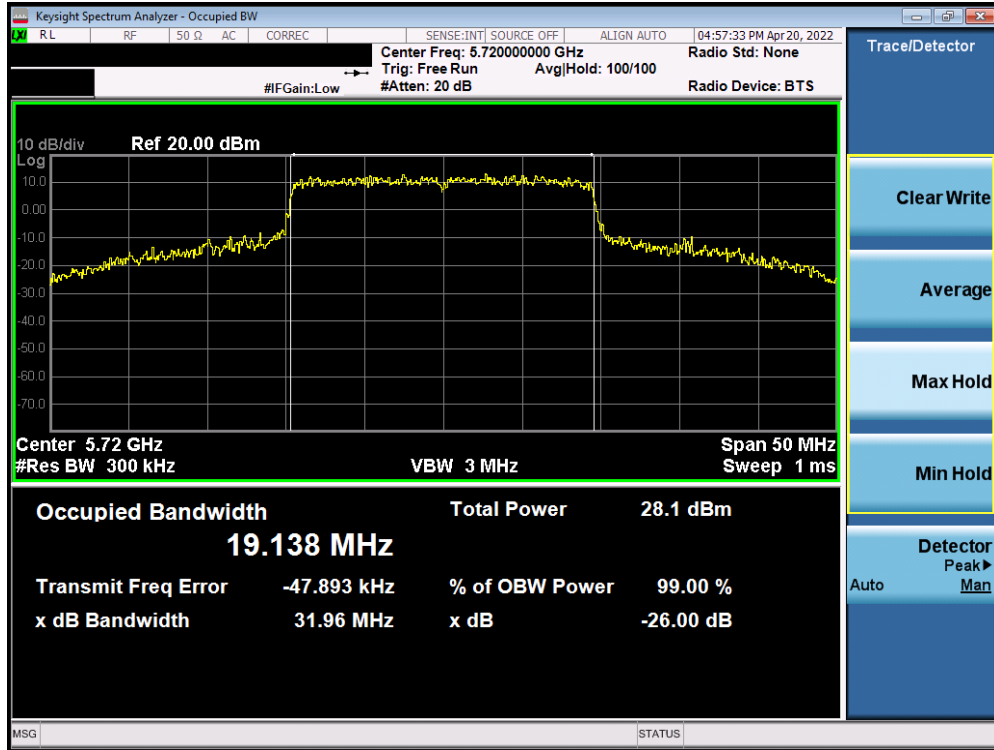


Plot 7-94. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

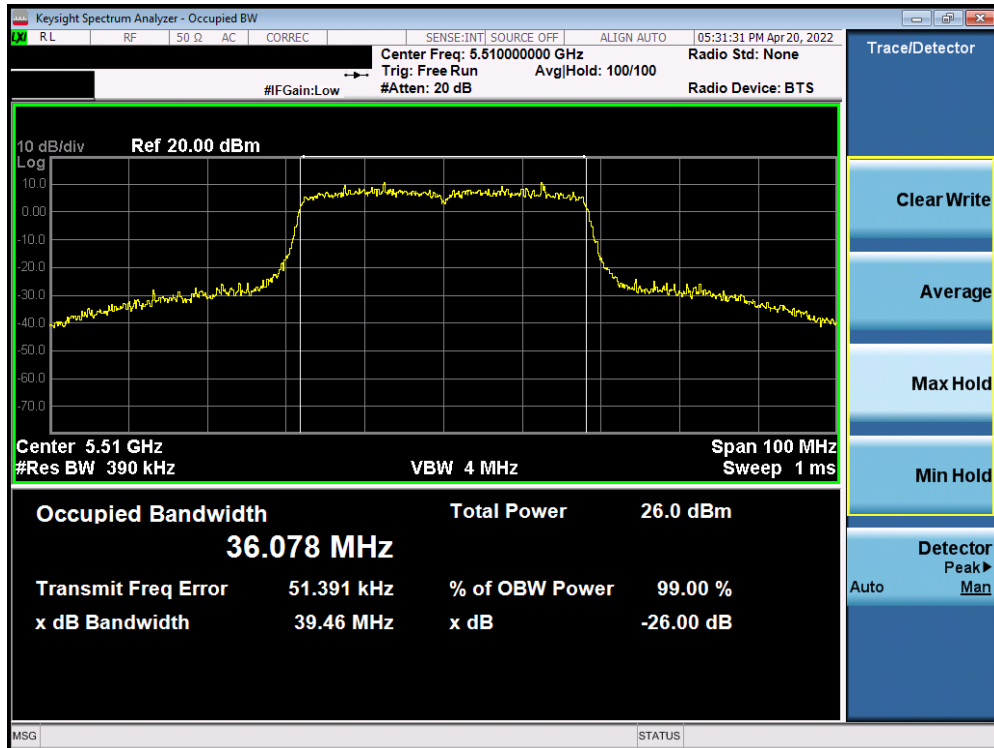


Plot 7-95. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 116)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 65 of 284



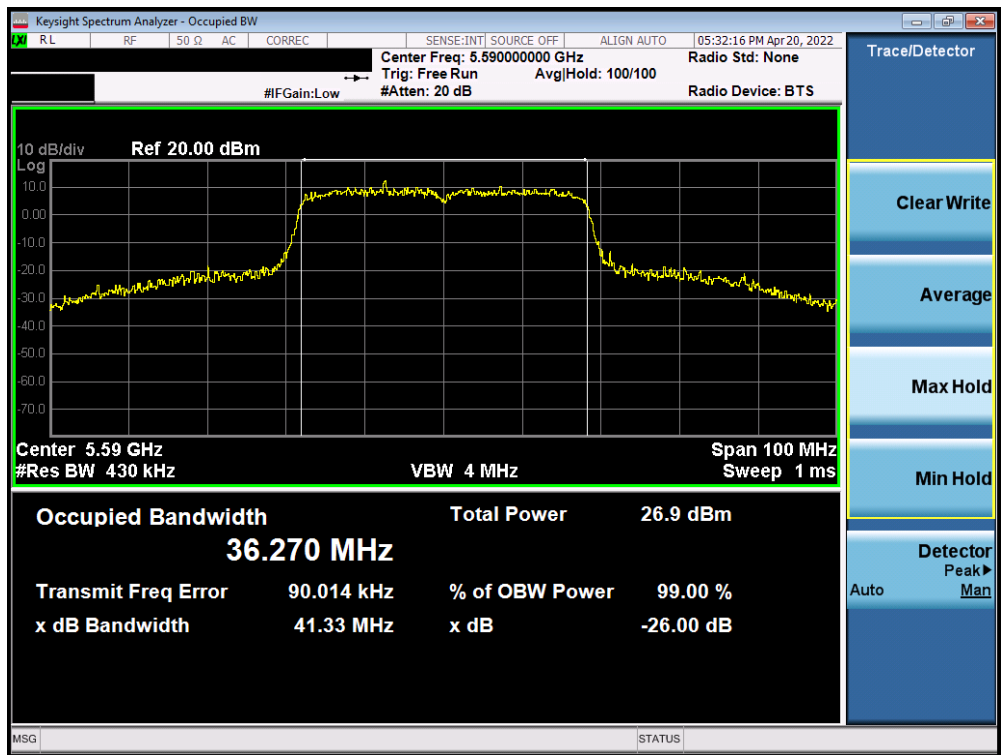
Plot 7-96. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 140)



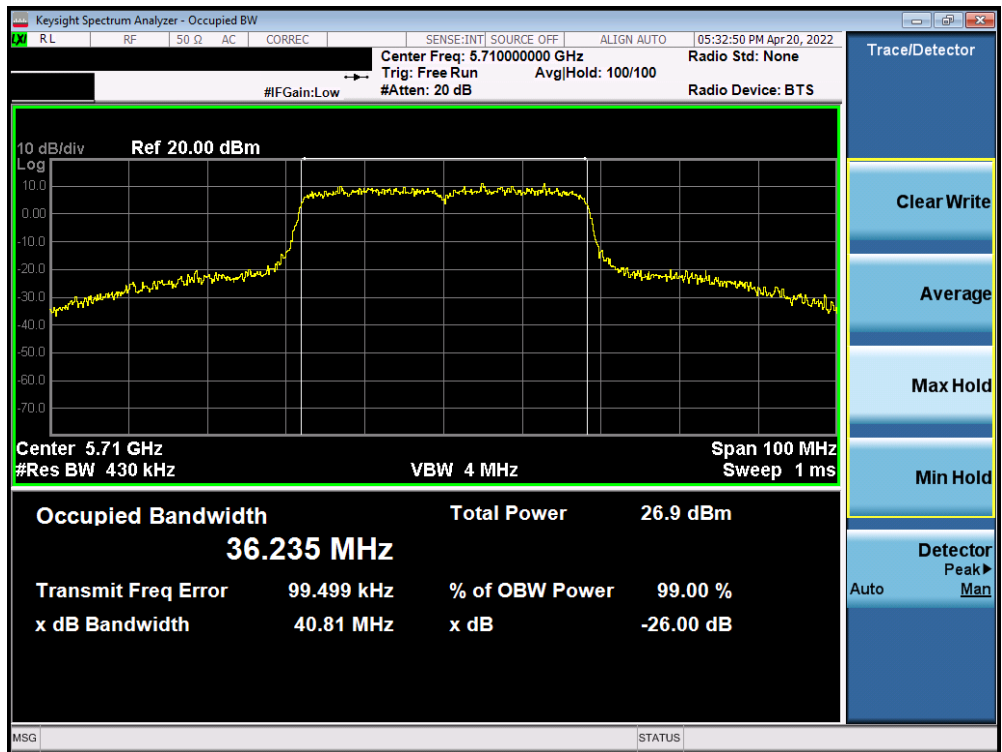
Plot 7-97. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 66 of 284



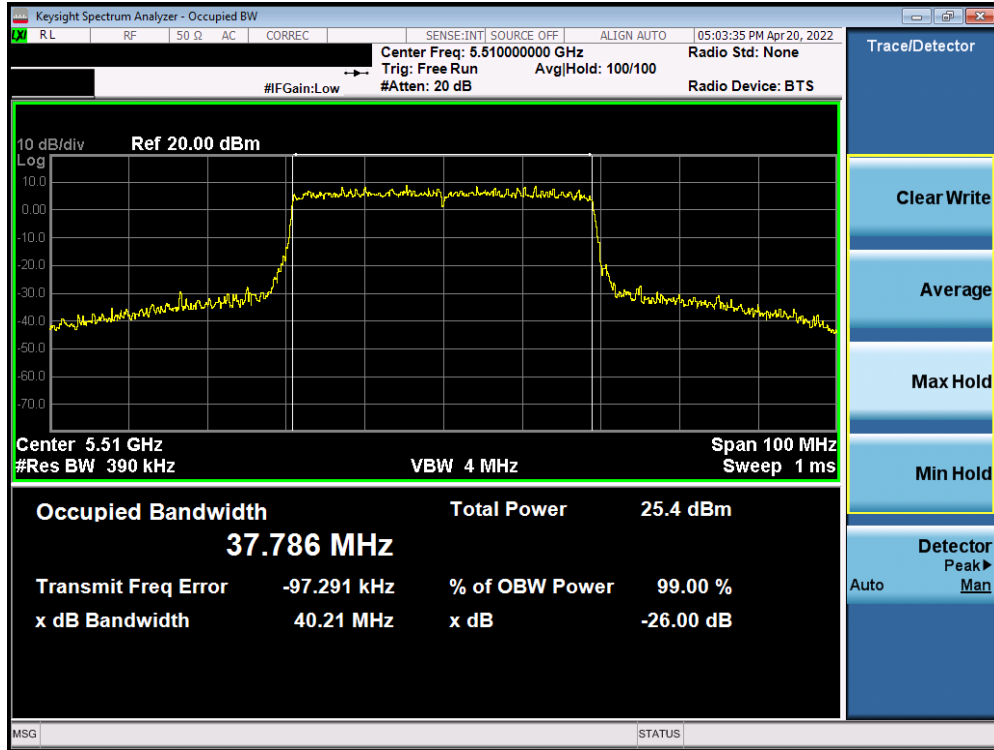


Plot 7-98. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

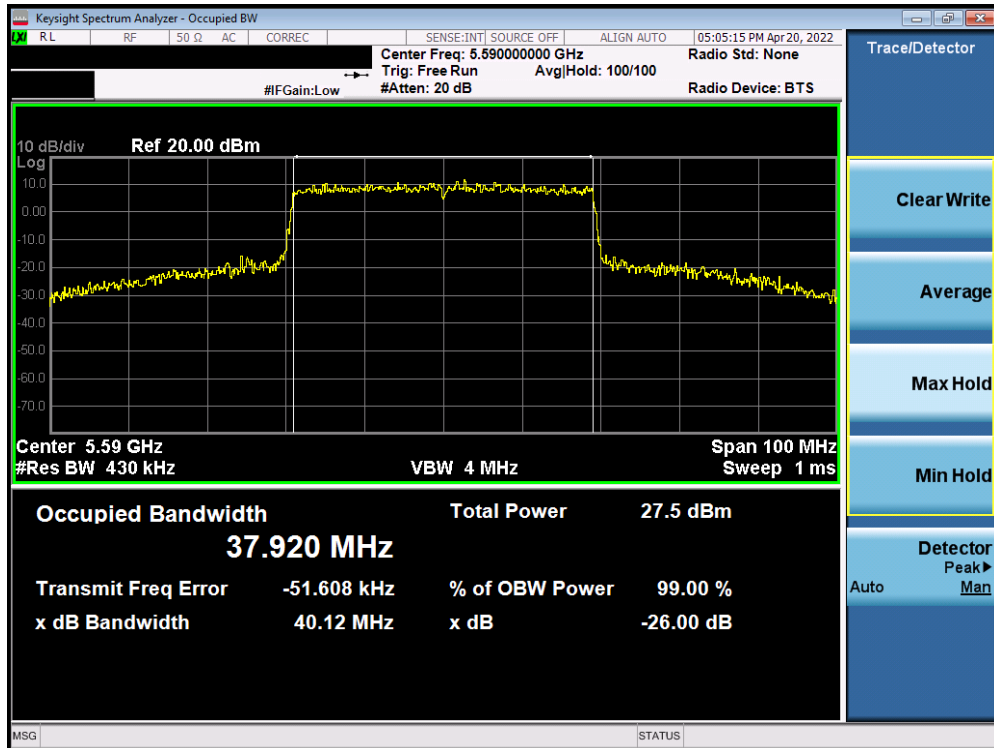


Plot 7-99. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 67 of 284



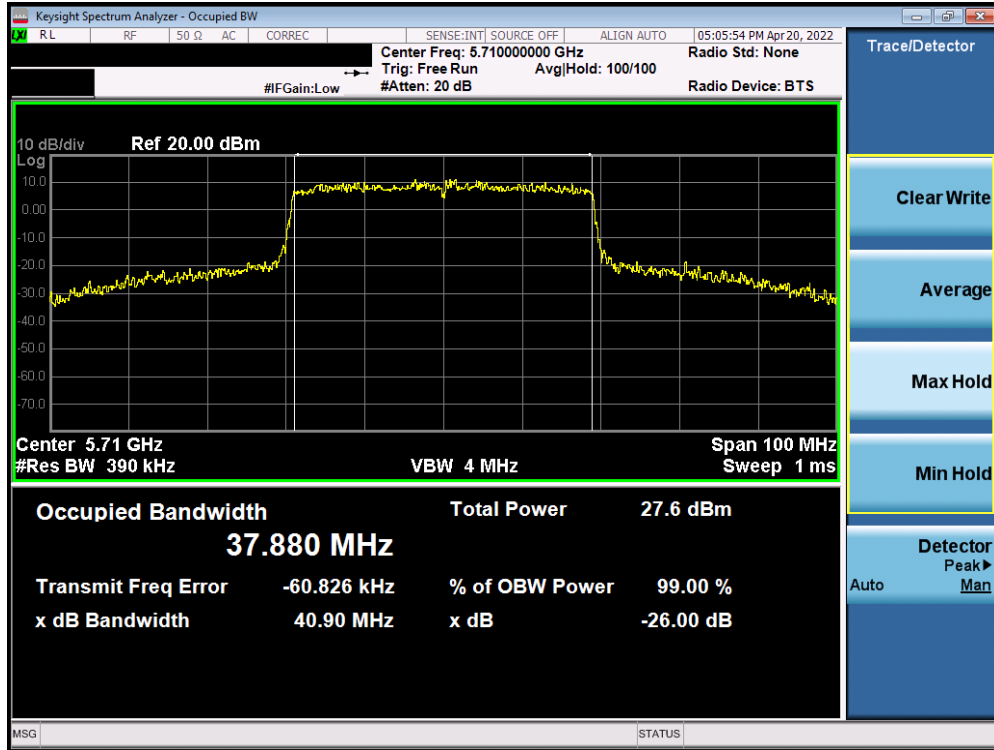
Plot 7-100. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 102)



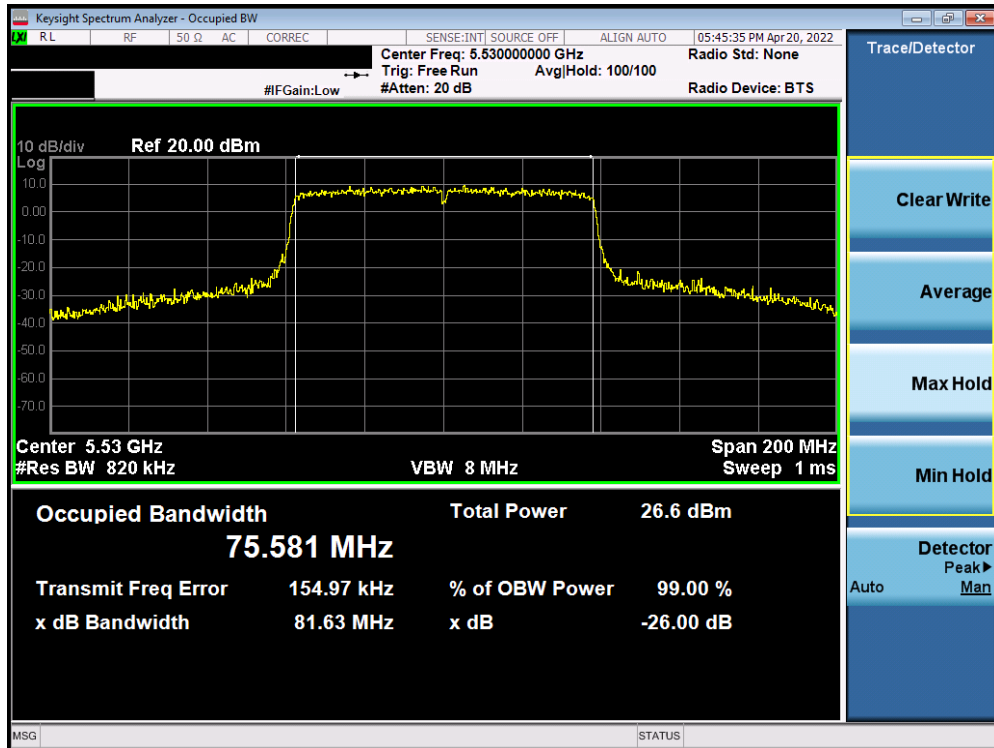
Plot 7-101. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 68 of 284



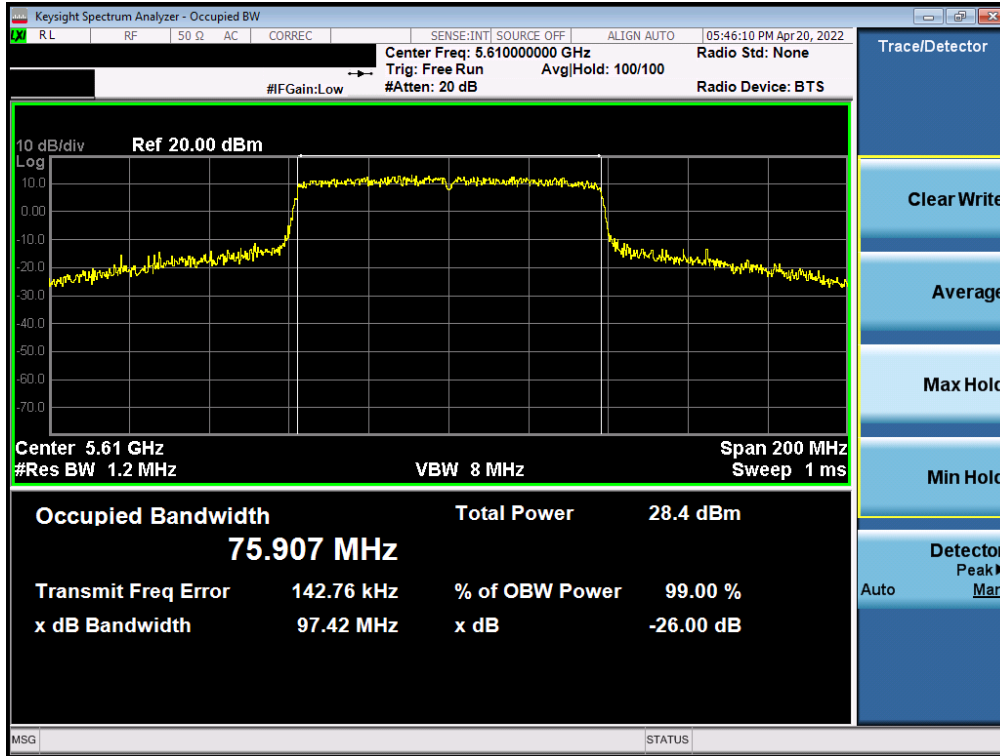


Plot 7-102. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

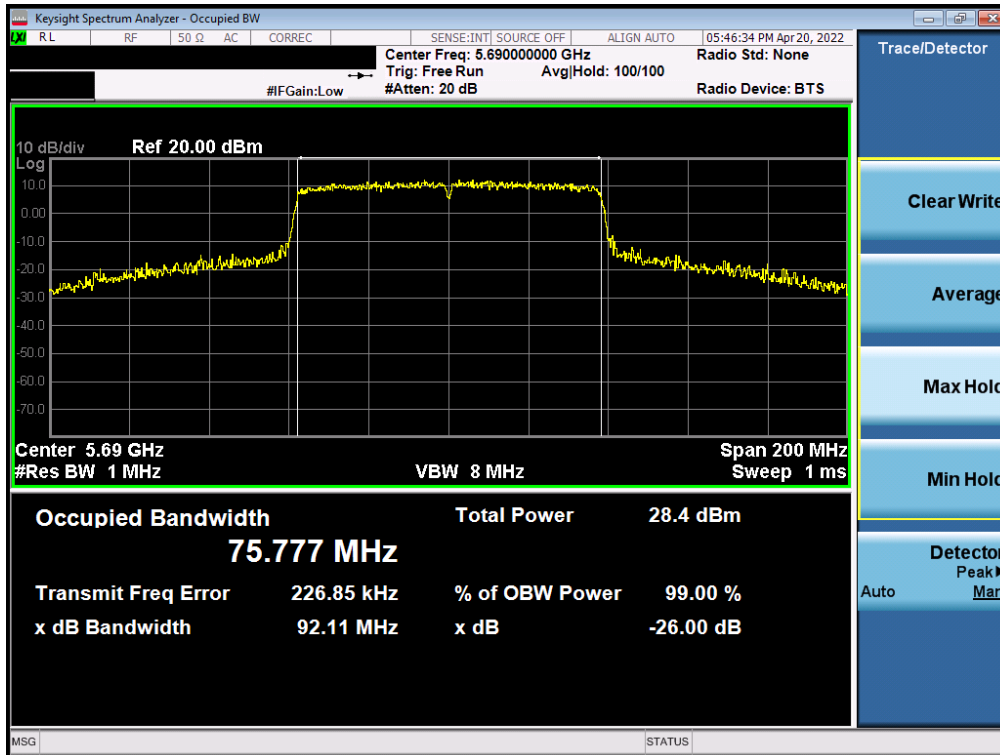


Plot 7-103. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 69 of 284



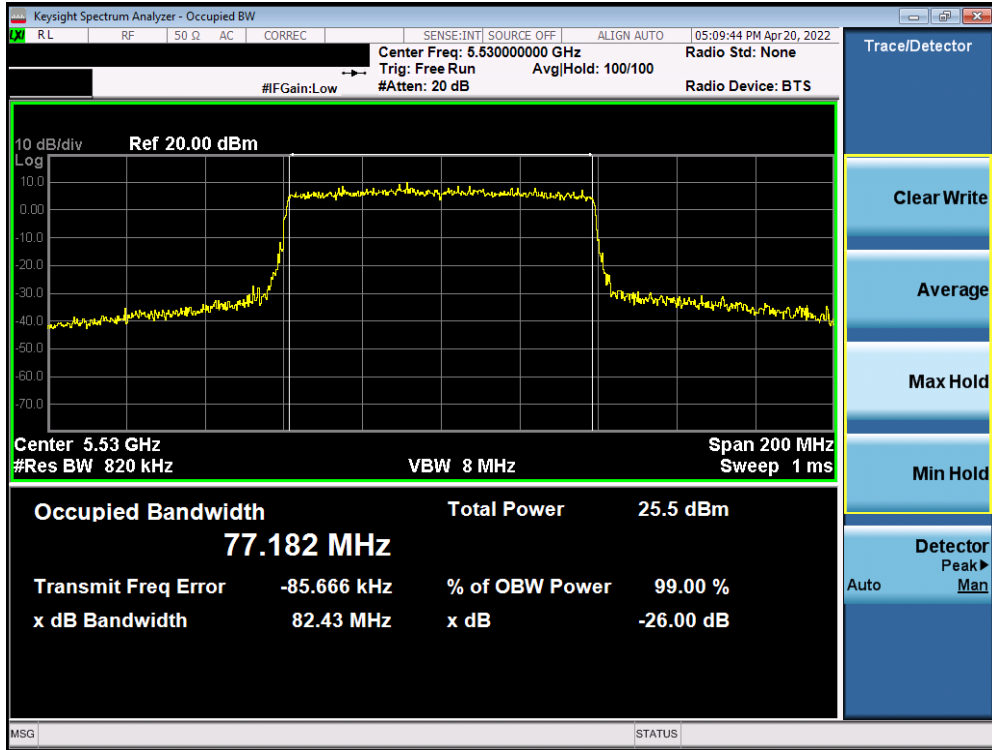
Plot 7-104. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)



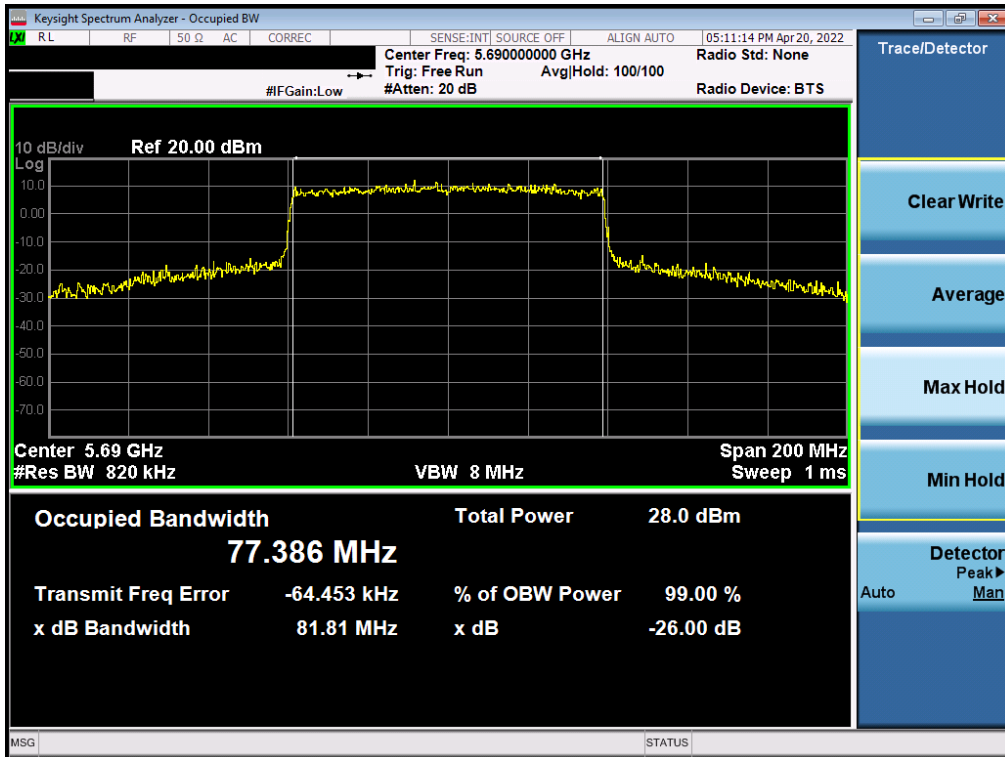
Plot 7-105. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 70 of 284





Plot 7-108. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 138)



Plot 7-109. 26dB Bandwidth Plot SISO ANT2 (160MHz BW 802.11ac (UNII Band 2C) – Ch. 114)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 72 of 284



### 7.3 6dB Bandwidth Measurement – 802.11a/n/ac/ax §15.407 (e)

#### 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  $\geq 3 \times$  RBW
4. Detector = Peak
5. 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

None.

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 74 of 284

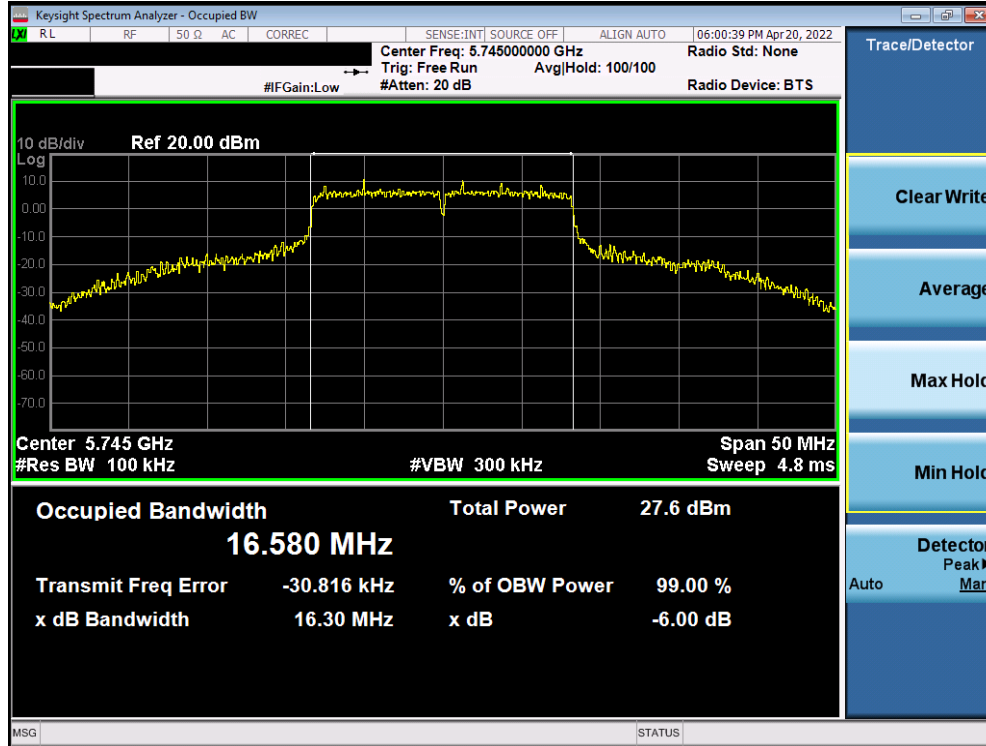
V9.0 02/01/2019



## SISO Antenna-1 6 dB Bandwidth Measurements

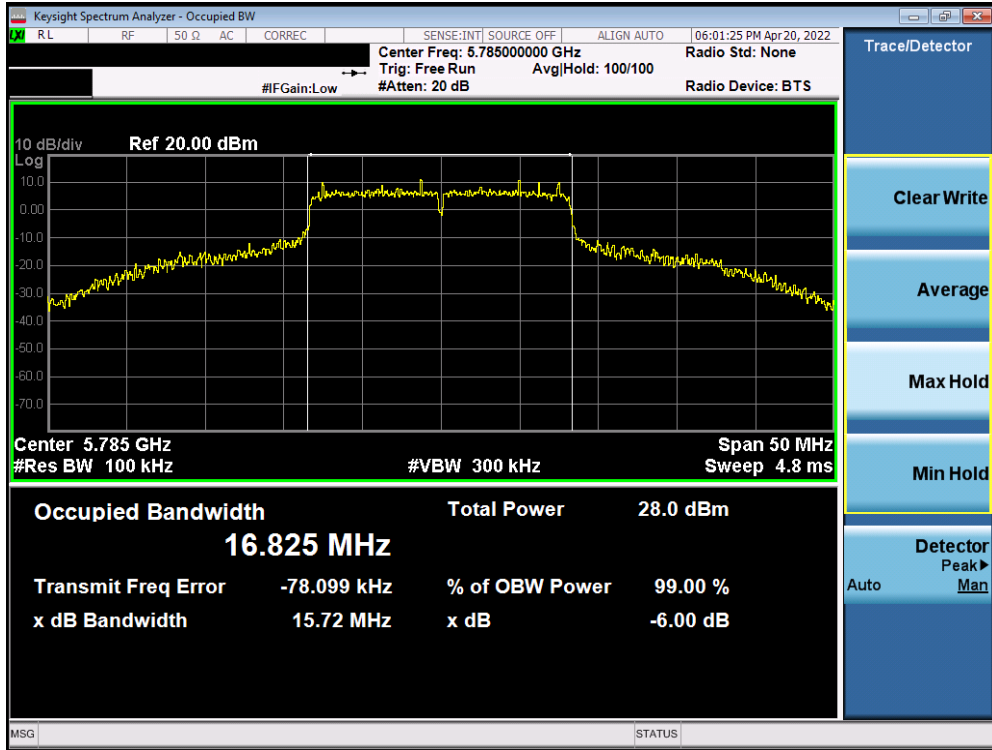
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
<b>Band 3</b>	5745	149	a	6	16.30
	5785	157	a	6	15.72
	5825	165	a	6	16.35
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	17.59
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.61
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	17.56
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	19.06
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	18.97
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.99
	5755	151	n (40MHz)	13.5/15 (MCS0)	36.01
	5795	159	n (40MHz)	13.5/15 (MCS0)	36.27
	5755	151	ax (40MHz)	13.5/15 (MCS0)	37.41
	5795	159	ax (40MHz)	13.5/15 (MCS0)	37.95
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	75.87
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	77.52

Table 7-4. Conducted Bandwidth Measurements SISO ANT1

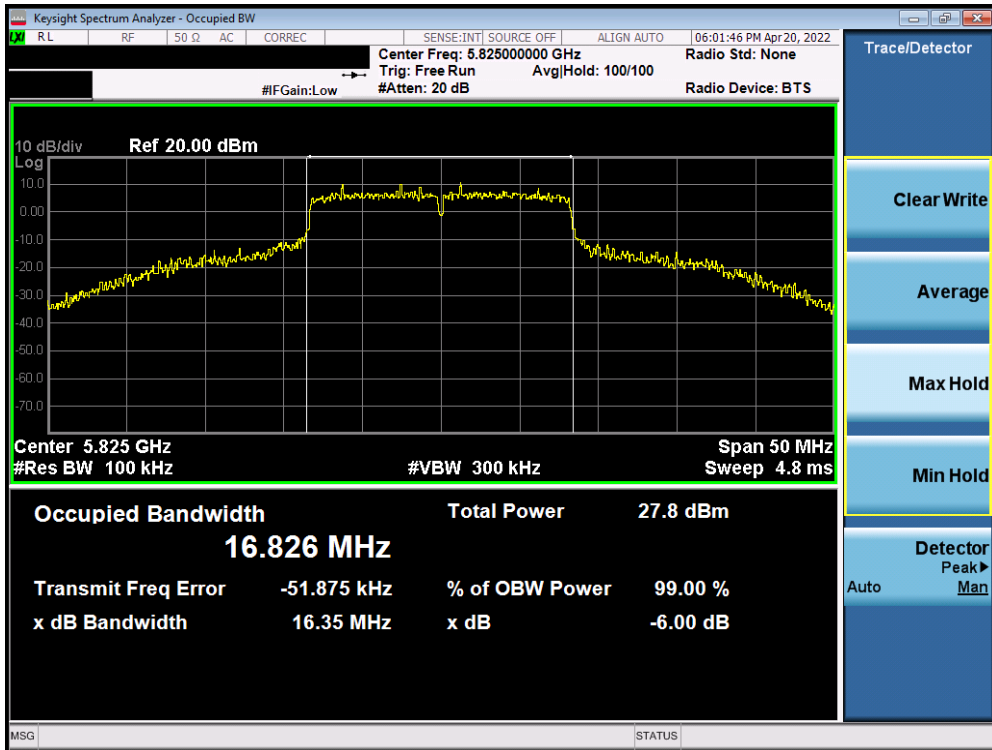


Plot 7-111. 6dB Bandwidth Plot SISO ANT1 (802.11a) (UNII Band 3) – Ch. 149

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 75 of 284

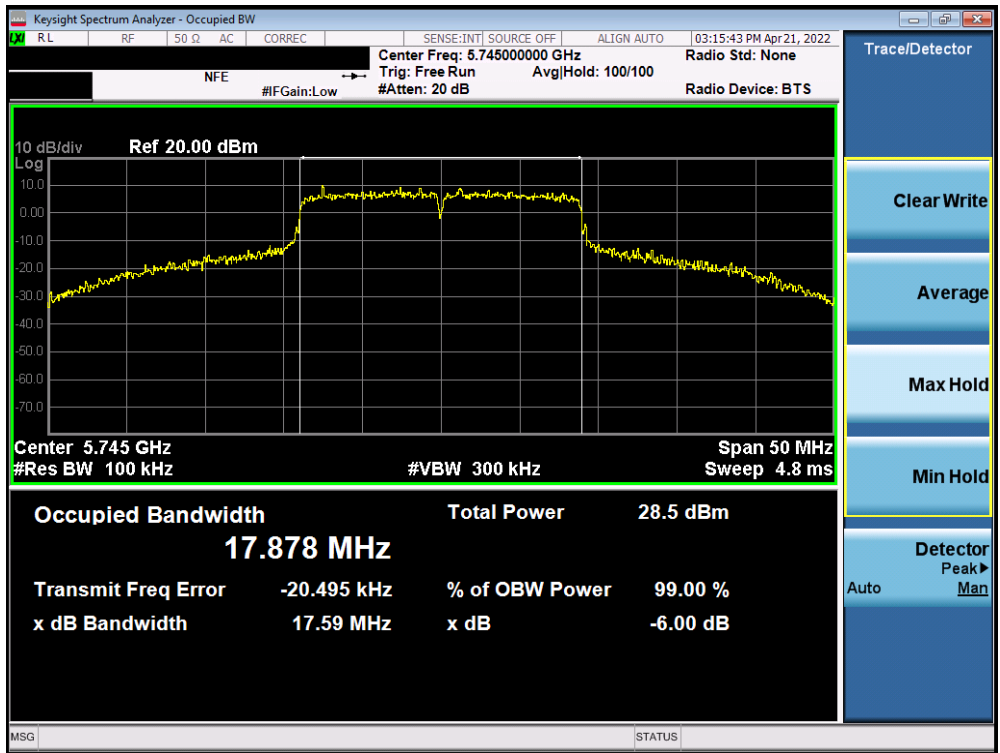


Plot 7-112. 6dB Bandwidth Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 157)

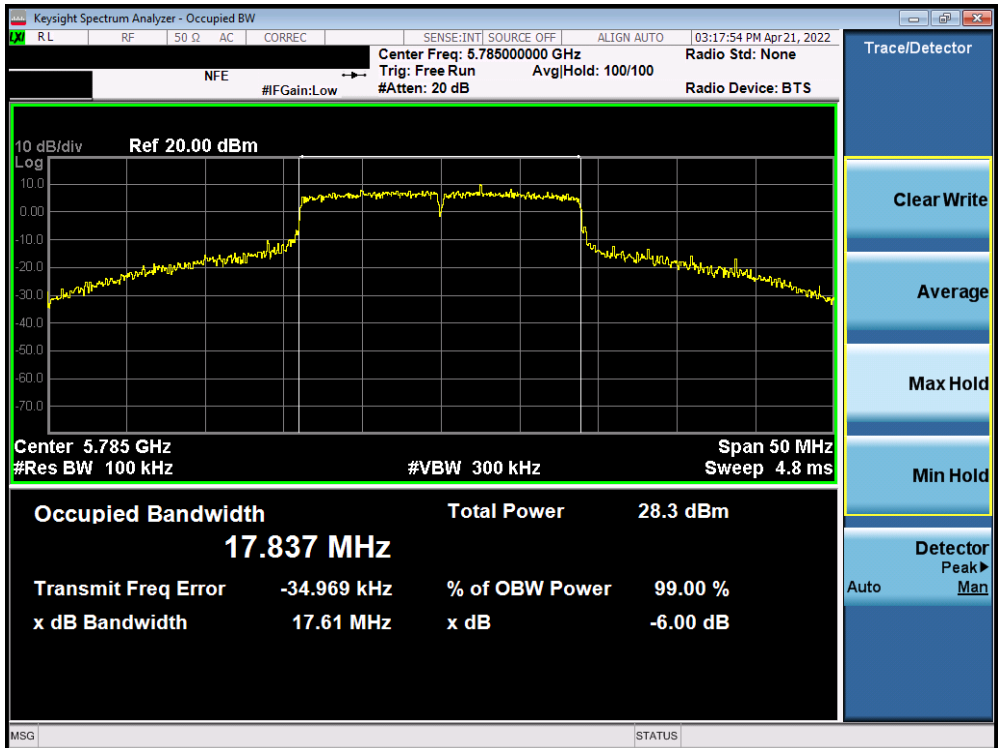


Plot 7-113. 6dB Bandwidth Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 165)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 76 of 284

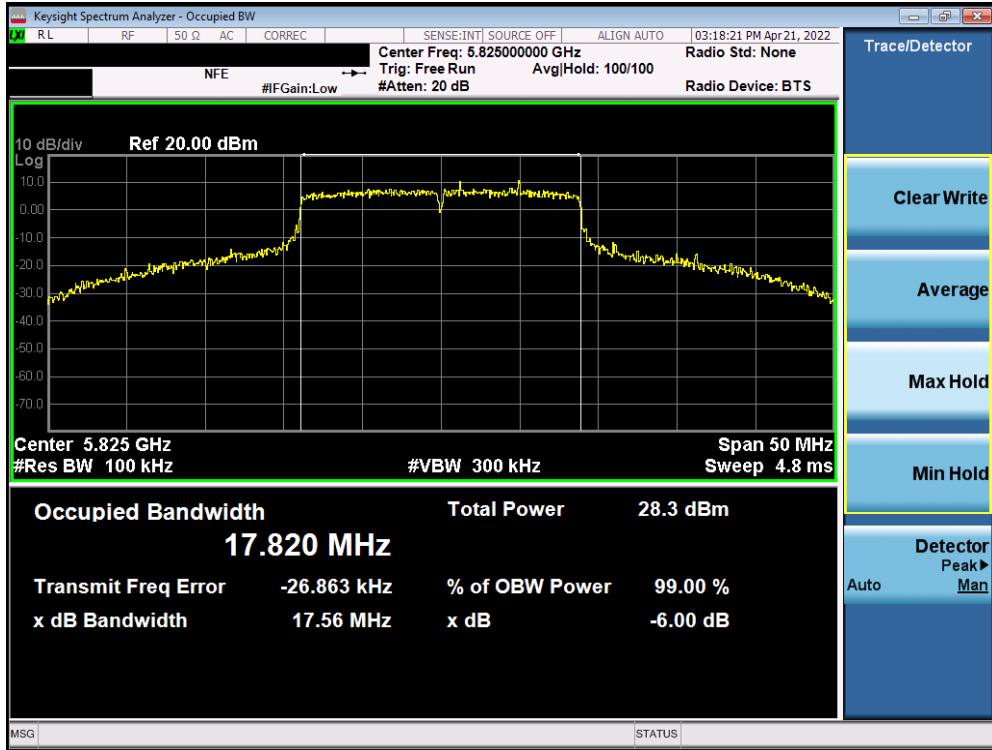


Plot 7-114. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

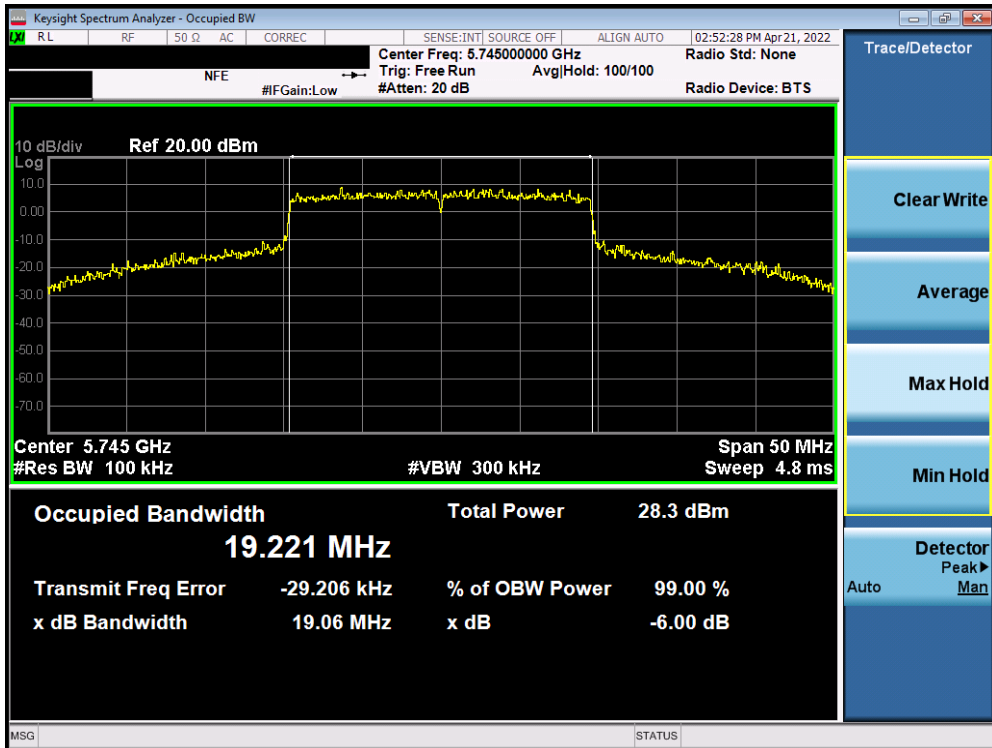


Plot 7-115. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 77 of 284

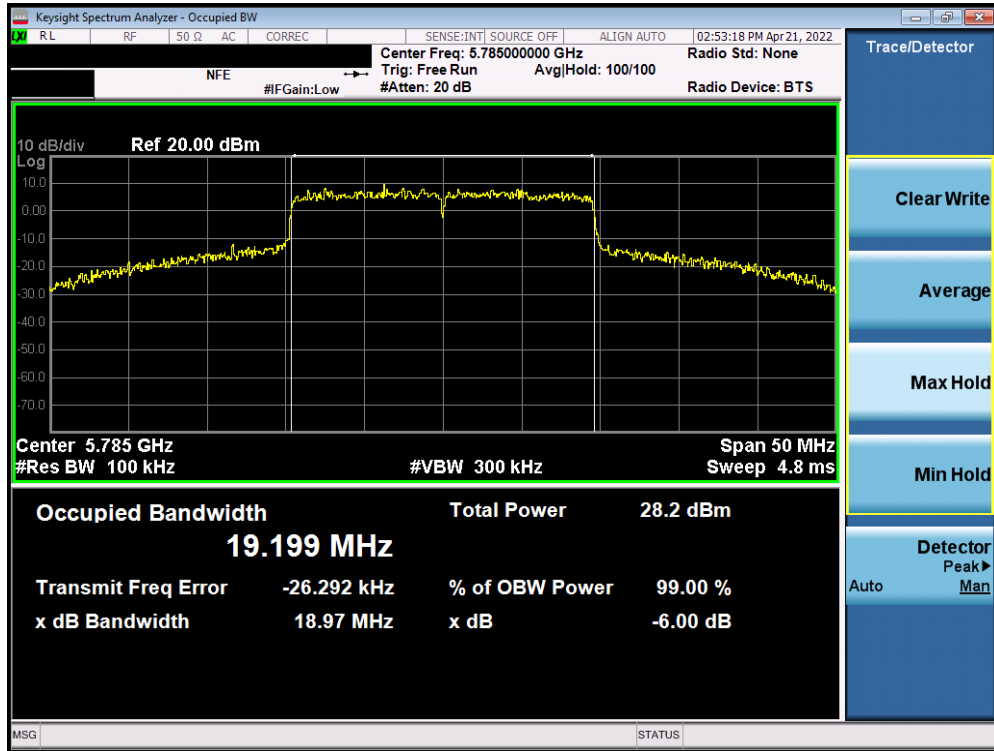


Plot 7-116. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

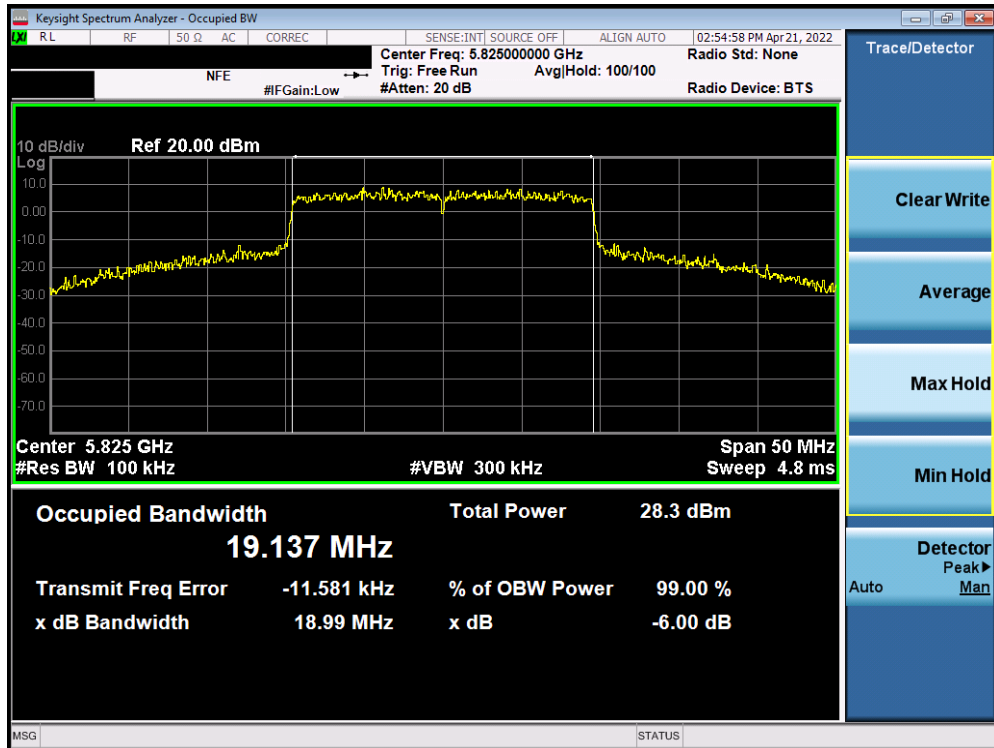


Plot 7-117. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 78 of 284

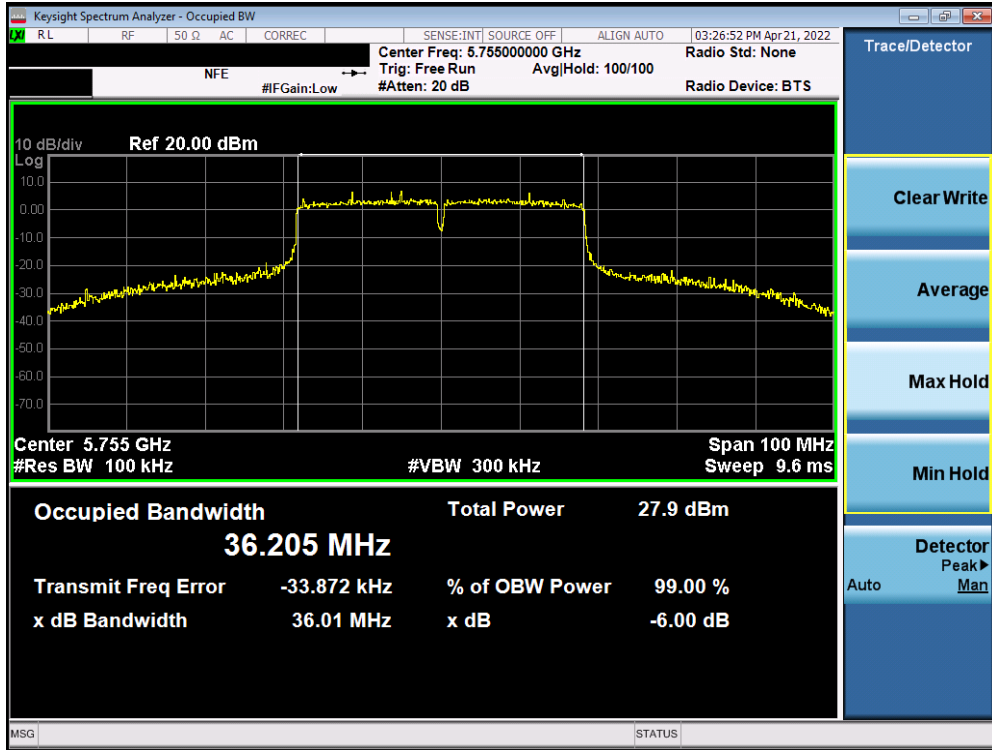


Plot 7-118. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

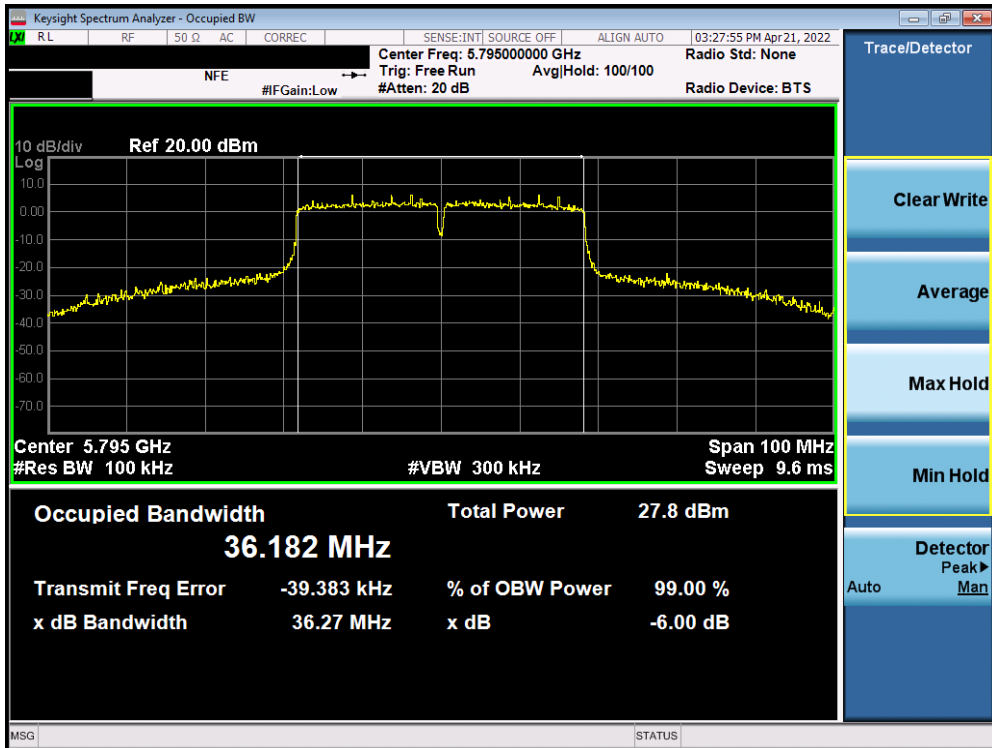


Plot 7-119. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 165)

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 79 of 284	



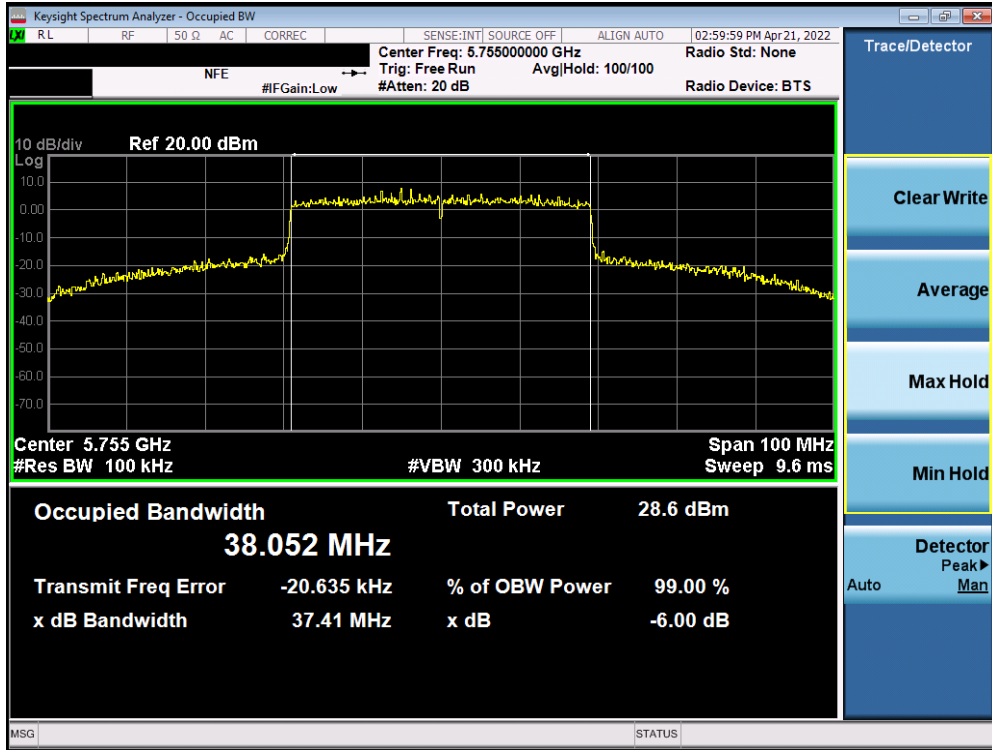
Plot 7-120. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)



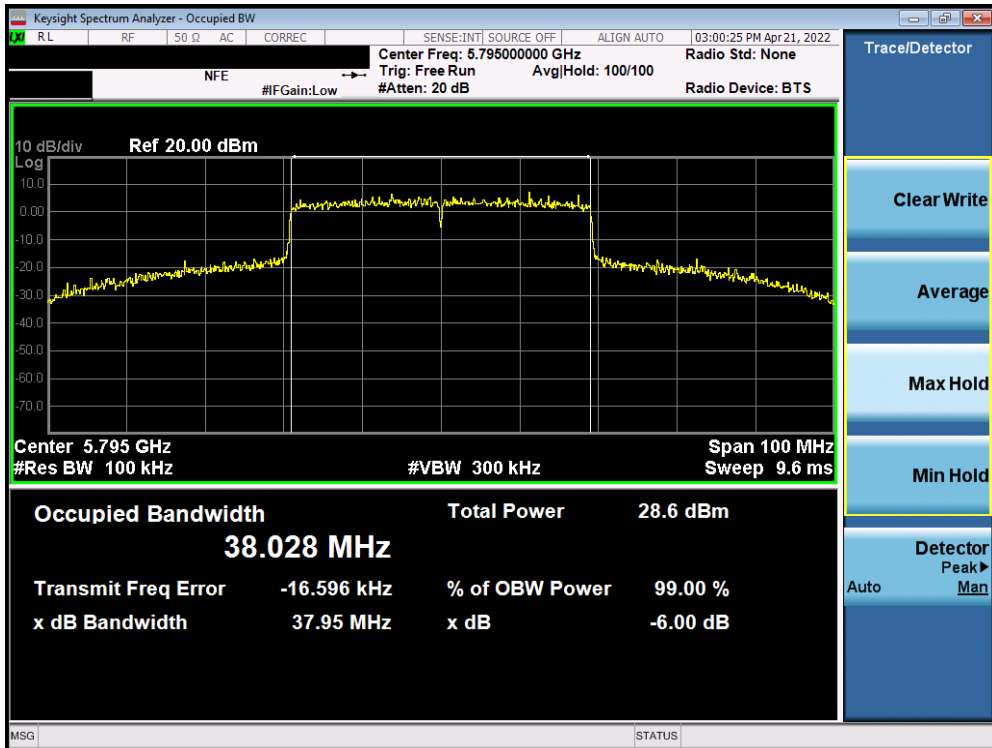
Plot 7-121. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 80 of 284	



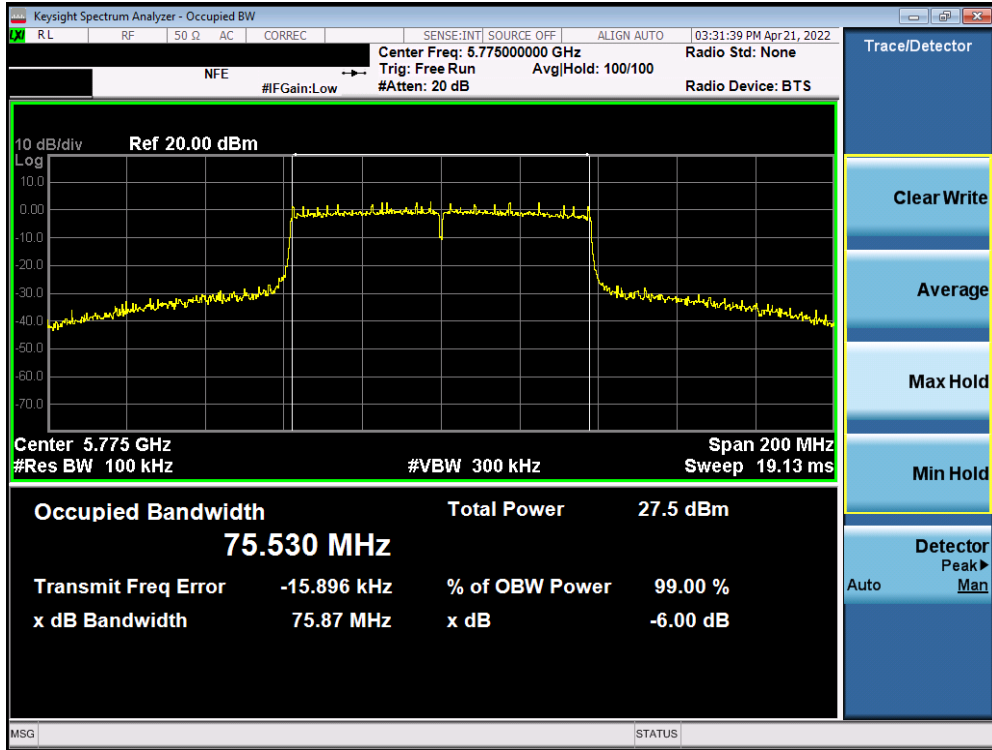


Plot 7-122. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

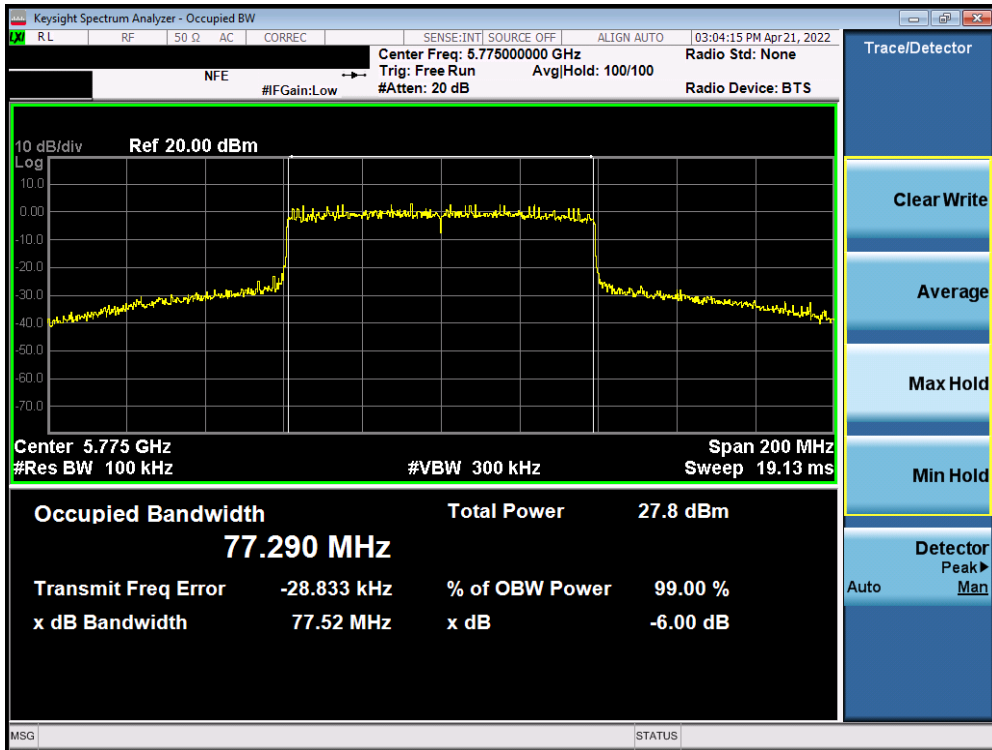


Plot 7-123. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 81 of 284



Plot 7-124. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-125. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 82 of 284

## SISO Antenna-2 6dB Bandwidth Measurements

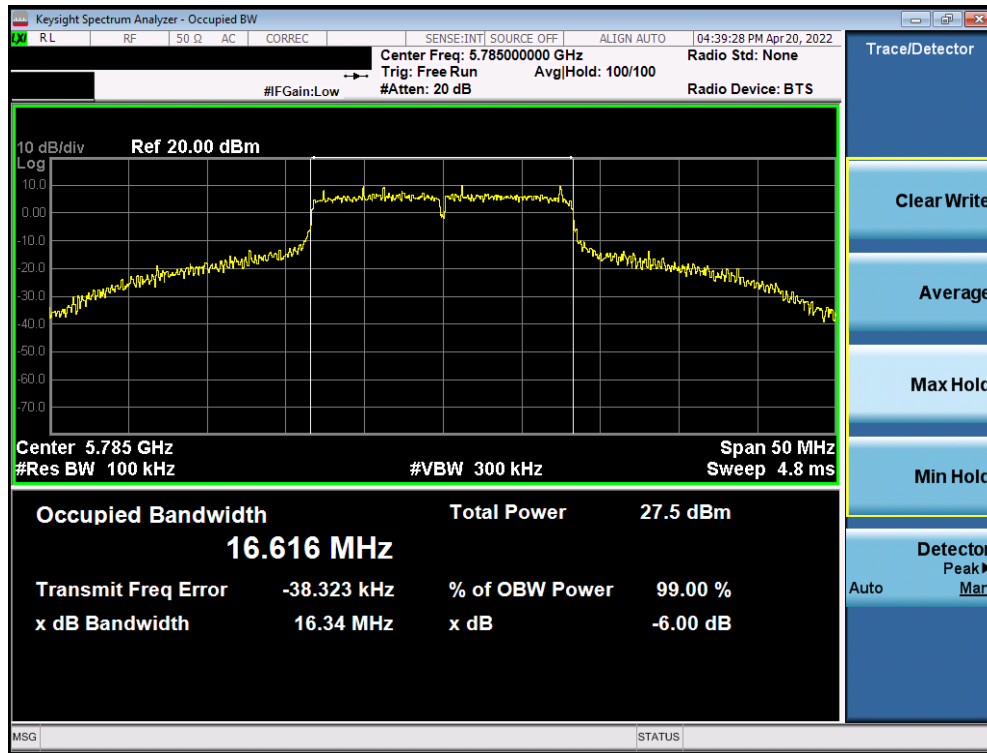
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
<b>Band 3</b>	5745	149	a	6	16.40
	5785	157	a	6	16.34
	5825	165	a	6	16.34
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	16.92
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	16.27
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	17.51
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	18.92
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	18.77
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.91
	5755	151	n (40MHz)	13.5/15 (MCS0)	35.83
	5795	159	n (40MHz)	13.5/15 (MCS0)	36.19
	5755	151	ax (40MHz)	13.5/15 (MCS0)	37.98
	5795	159	ax (40MHz)	13.5/15 (MCS0)	37.96
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	74.62
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	76.79

Table 7-5. Conducted Bandwidth Measurements SISO ANT2

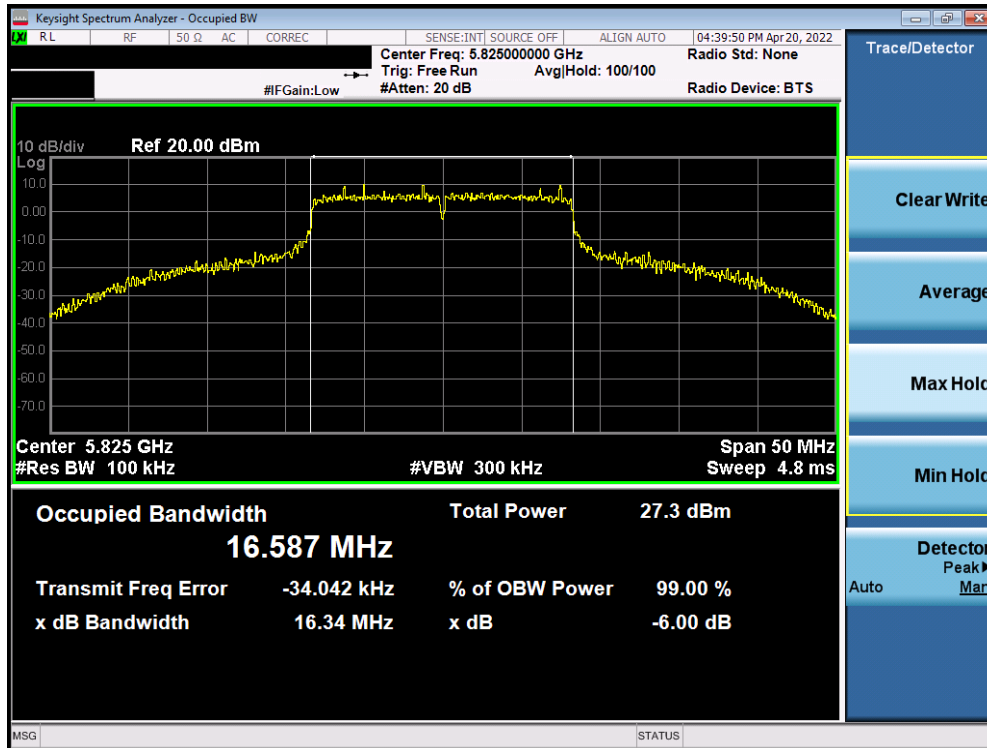


Plot 7-126. 6dB Bandwidth Plot SISO ANT2 (802.11a) (UNII Band 3) – Ch. 149

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 83 of 284	

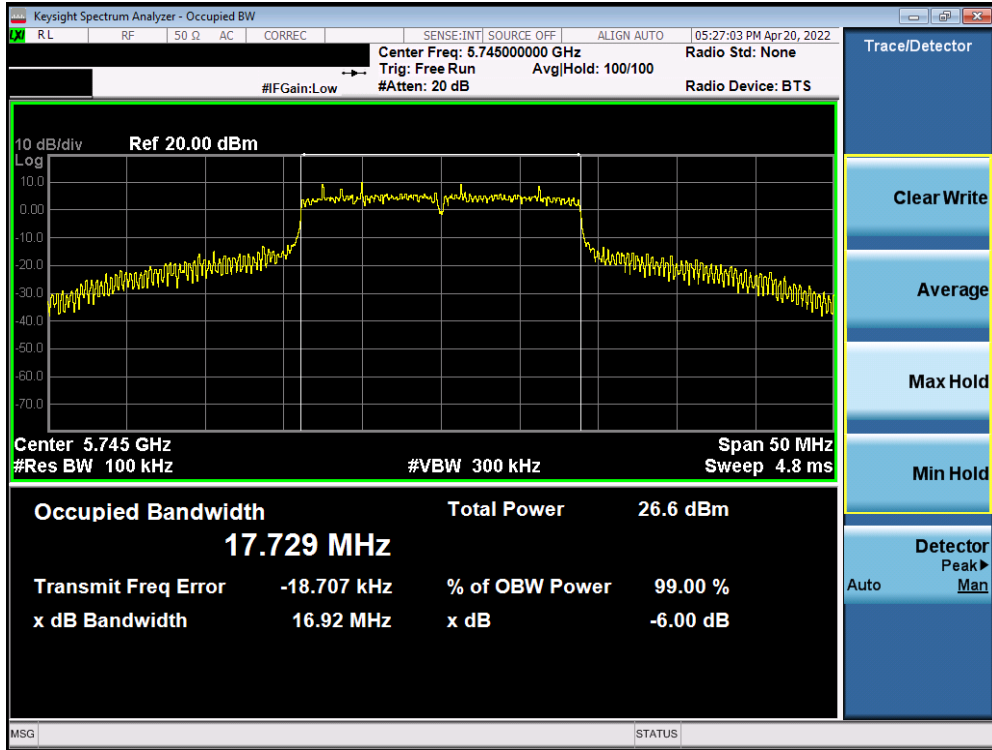


Plot 7-127. 6dB Bandwidth Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 157)

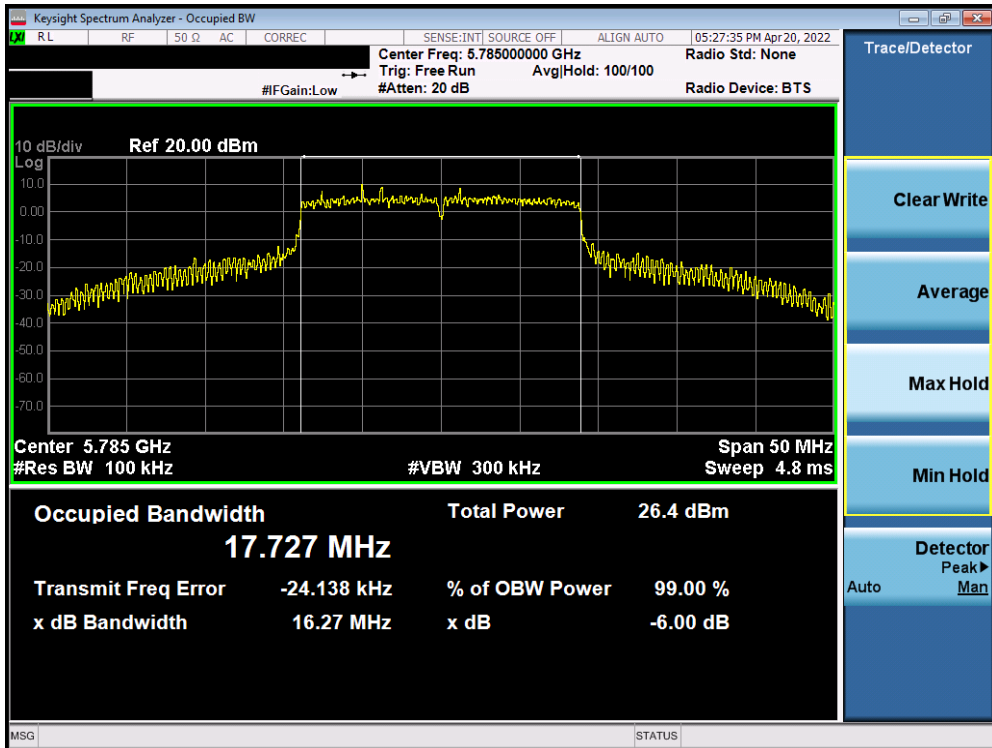


Plot 7-128. 6dB Bandwidth Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 165)

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 84 of 284

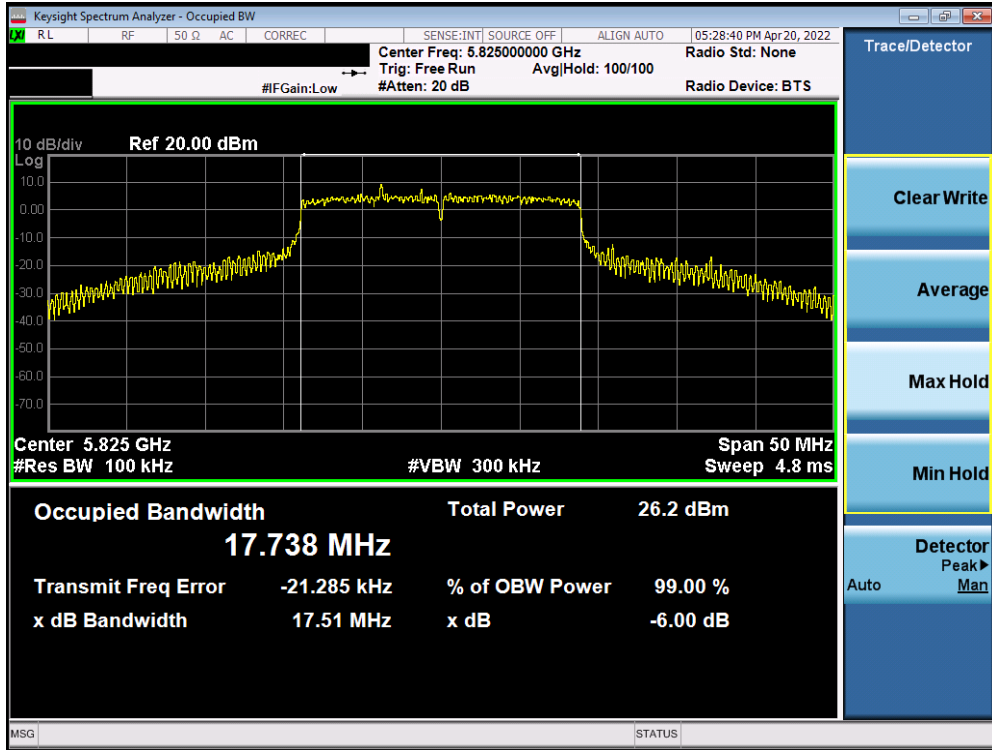


Plot 7-129. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

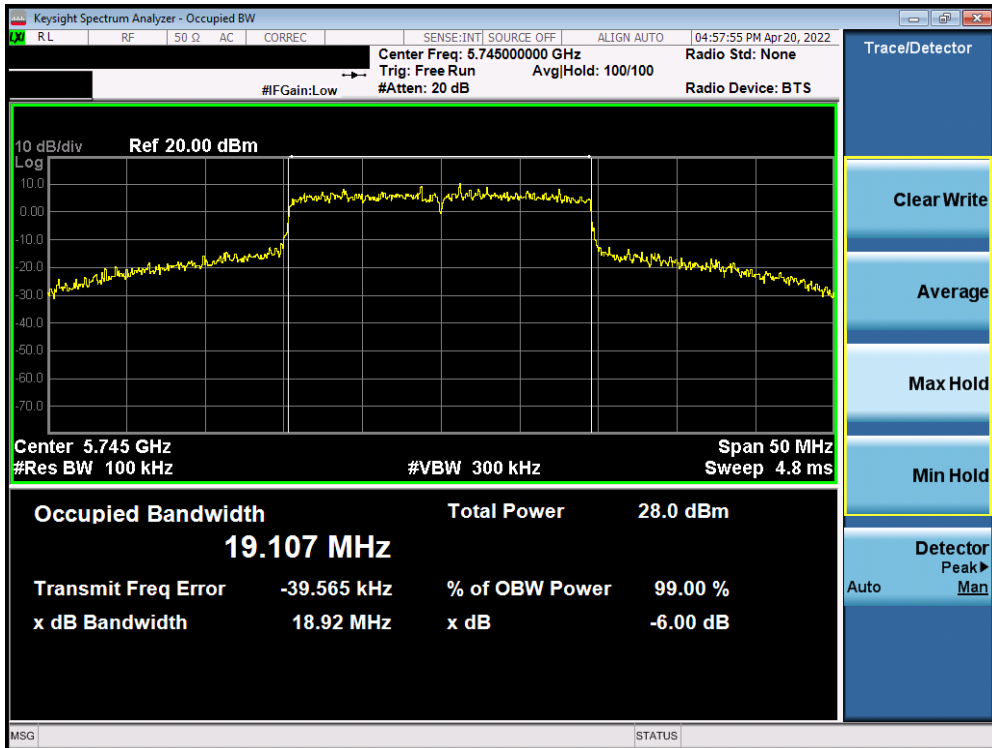


Plot 7-130. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 85 of 284



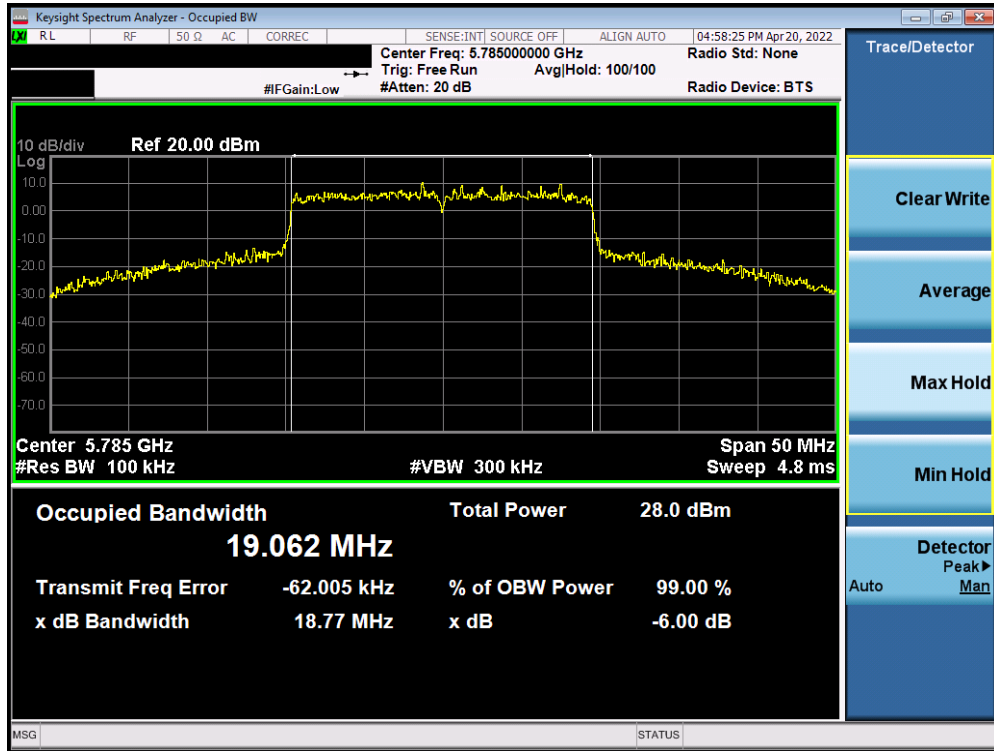
Plot 7-131. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)



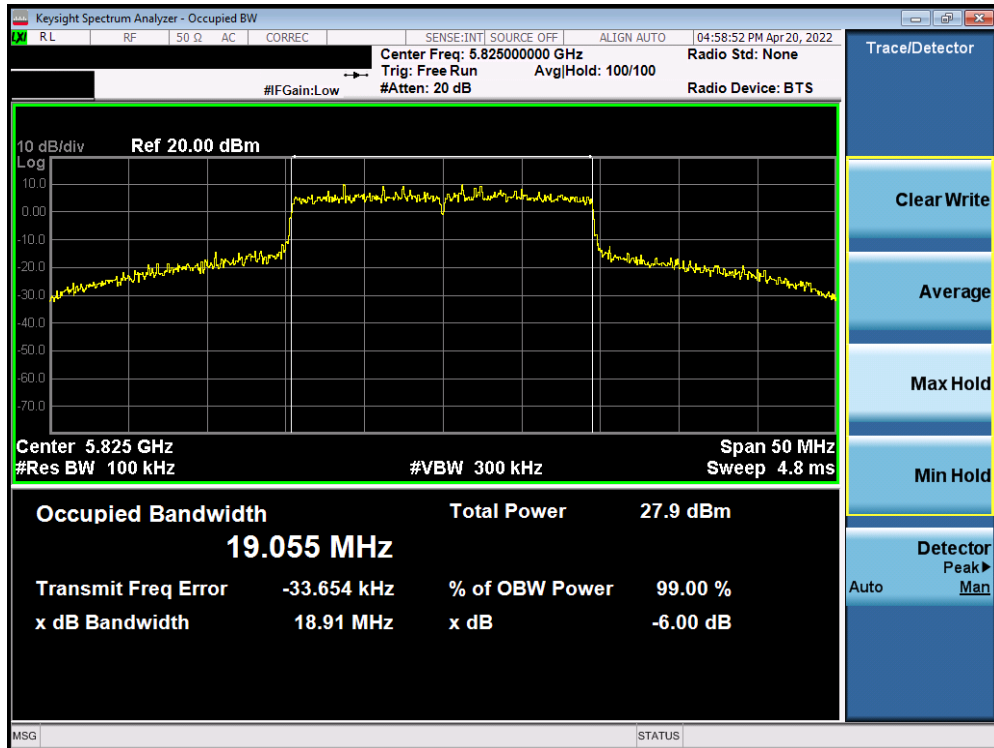
Plot 7-132. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 86 of 284



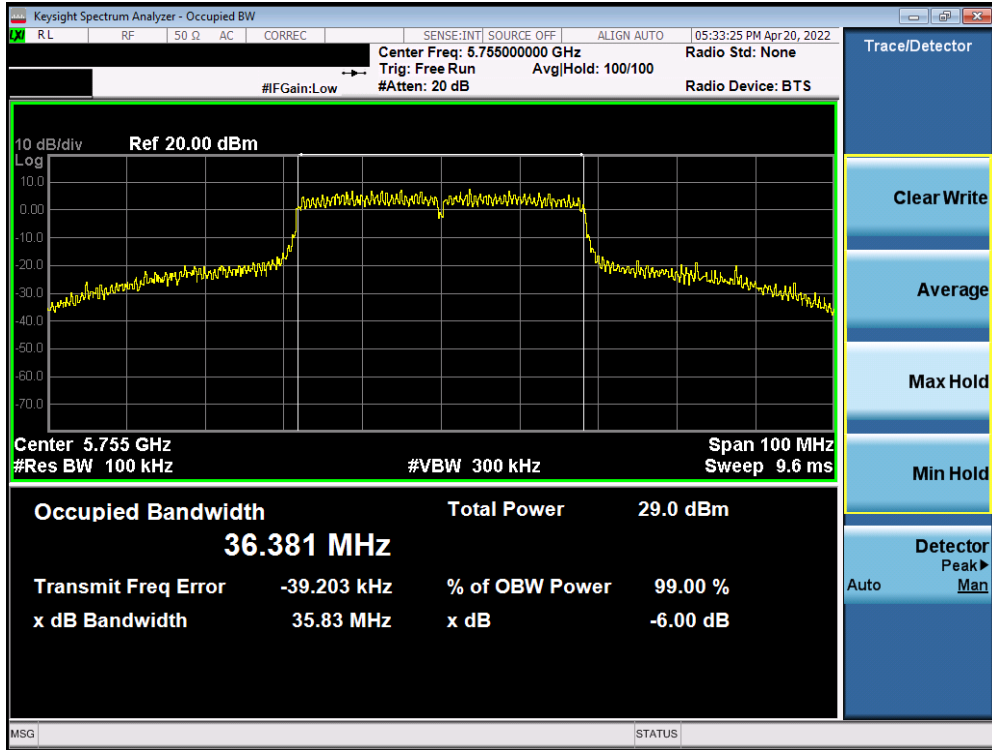


Plot 7-133. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

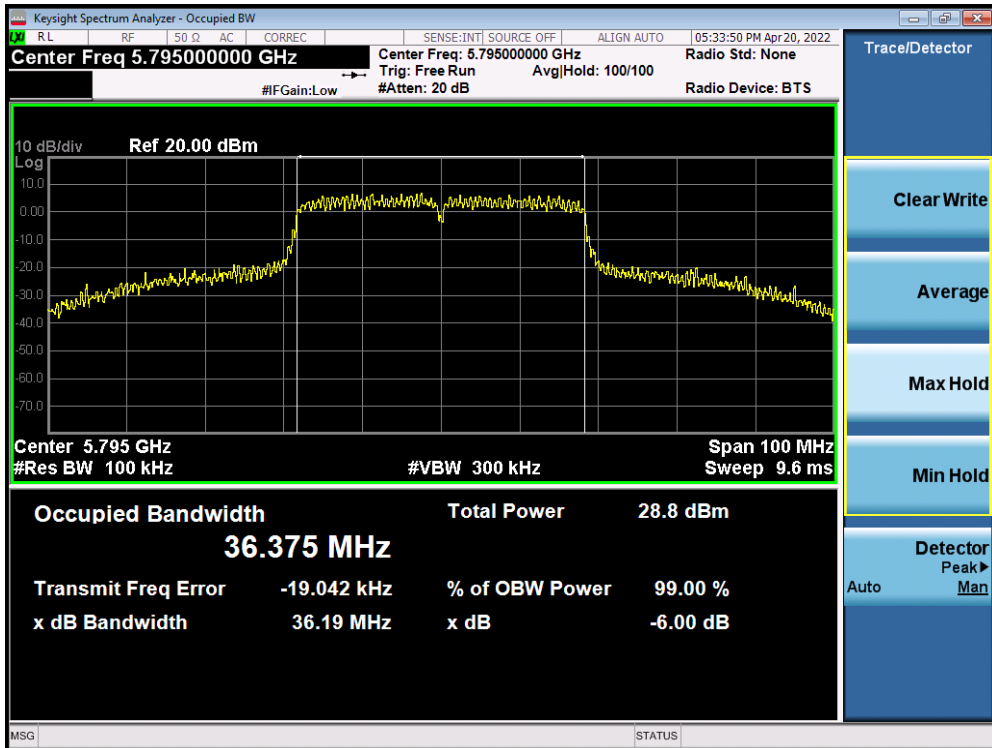


Plot 7-134. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 165)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 87 of 284

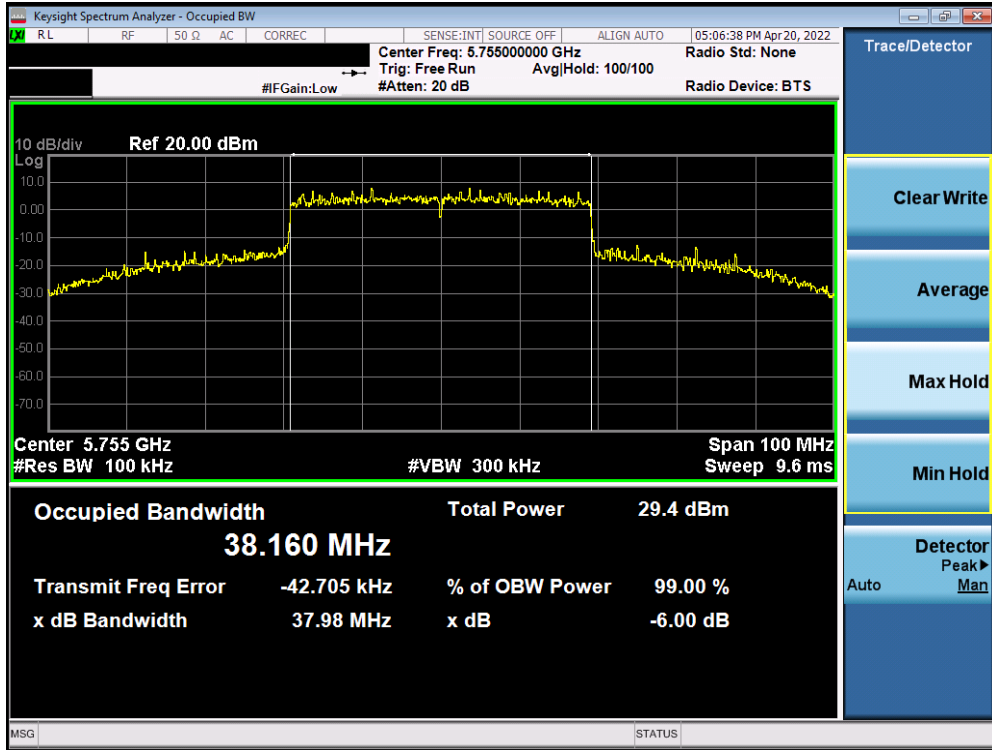


Plot 7-135. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

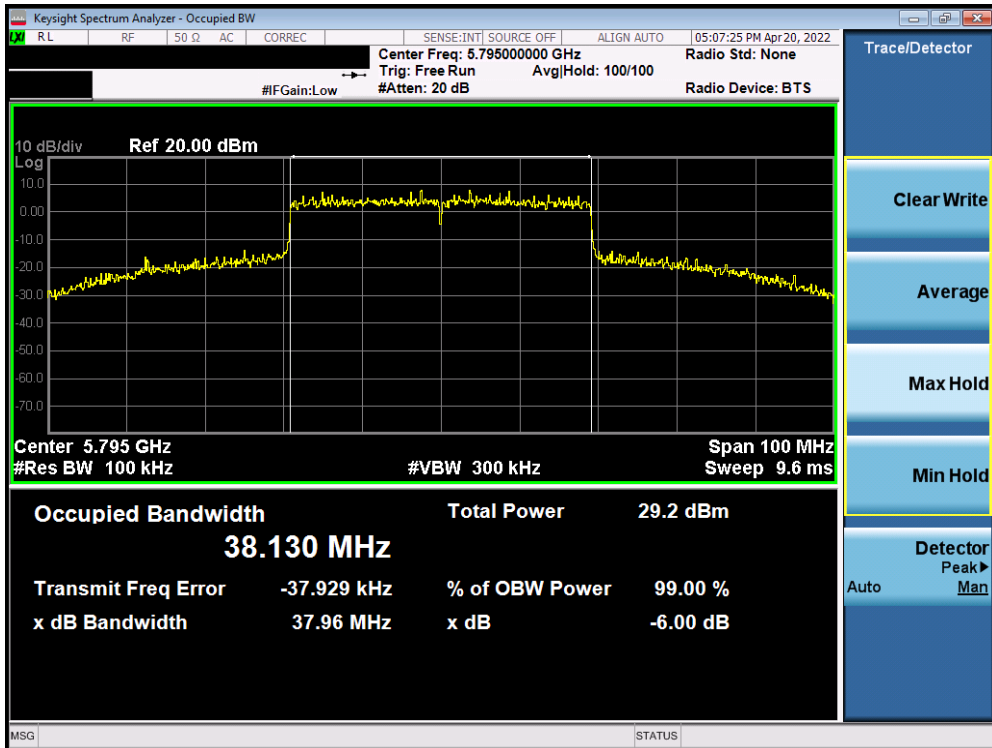


Plot 7-136. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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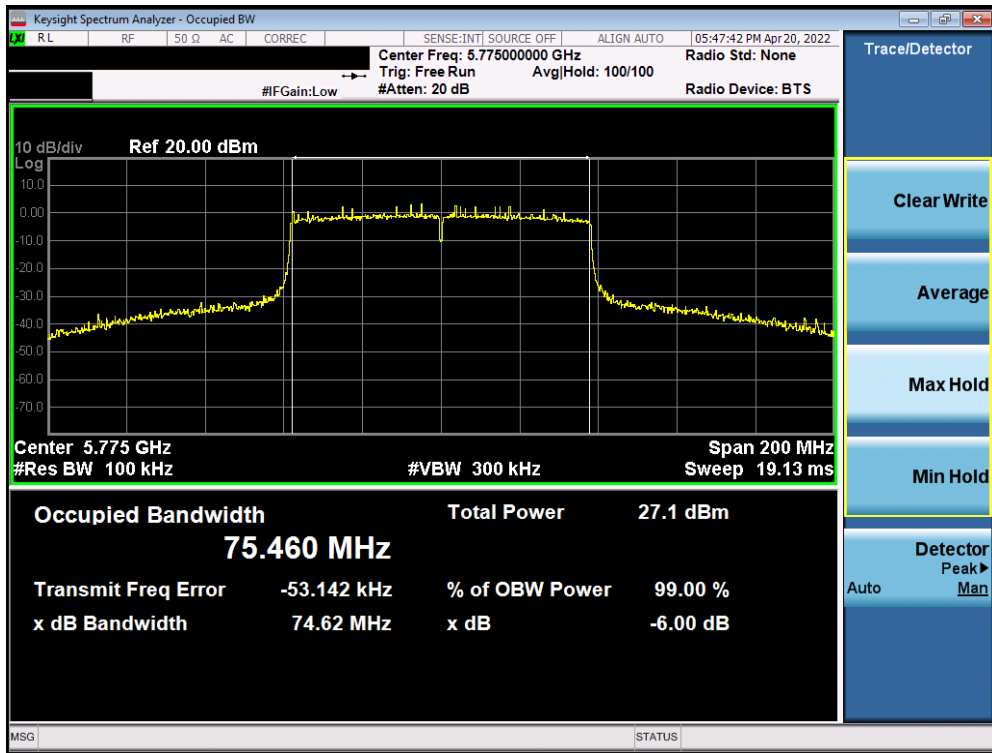


Plot 7-137. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

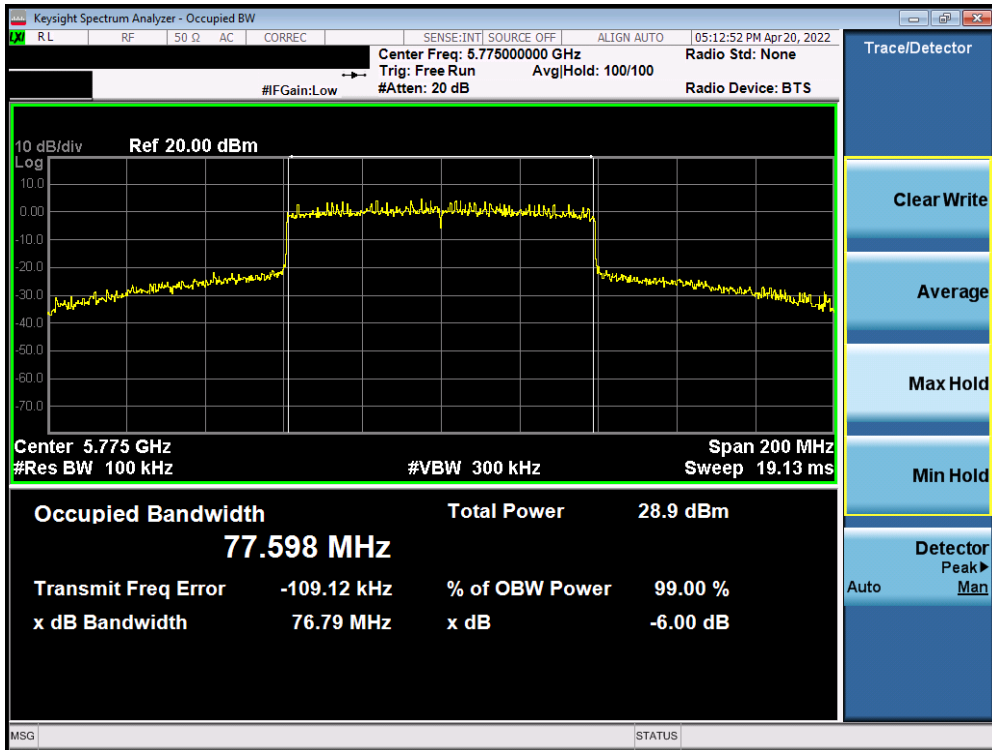


Plot 7-138. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-139. 6dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-140. 6dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## 7.4 UNII Output Power Measurement – 802.11a/n/ac/ax §15.407(a.1.iv) §15.407(a.2) §15.407(a.3)

### Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter 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.

***In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm).***

***In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or  $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(33.46) = 26.25\text{dBm}$ .***

***In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or  $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(31.71) = 26.01\text{dBm}$ .***

***In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm).***

### Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G  
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G  
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique  
KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

### Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### Test Setup

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



**Figure 7-3. Test Instrument & Measurement Setup**

### Test Notes

Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## SISO Antenna-1 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	IEEE Transmission Mode				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11a	802.11n	802.11ac	802.11ax		
	5180	36	AVG	20.67	20.54	20.52	20.52	23.98	-3.31
5200	40	AVG	20.64	20.55	20.55	20.49	23.98	-3.34	
5220	44	AVG	20.68	20.58	20.56	20.56	23.98	-3.30	
5240	48	AVG	20.54	20.56	20.50	20.56	23.98	-3.42	
5260	52	AVG	20.89	20.91	20.92	20.99	23.98	-3.06	
5280	56	AVG	20.89	20.82	20.95	20.99	23.98	-3.03	
5300	60	AVG	20.76	20.97	20.79	20.98	23.98	-3.01	
5320	64	AVG	20.95	20.99	20.87	20.99	23.98	-2.99	
5500	100	AVG	20.99	20.94	20.99	20.99	23.98	-2.99	
5600	120	AVG	20.70	20.72	20.70	20.64	23.98	-3.26	
5620	124	AVG	20.73	20.65	20.89	20.66	23.98	-3.09	
5720	144	AVG	19.55	19.62	19.65	19.65	23.98	-4.33	
5745	149	AVG	20.56	20.99	20.57	20.99	30.00	-9.01	
5785	157	AVG	20.96	20.77	20.85	20.75	30.00	-9.04	
5825	165	AVG	20.94	20.45	20.55	20.80	30.00	-9.06	

Table 7-6. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	IEEE Transmission Mode			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n	802.11ac	802.11ax		
	5190	38	AVG	16.05	16.11	16.34	23.98	-7.87
5230	46	AVG	16.19	16.20	16.79	23.98	-7.78	
5270	54	AVG	19.76	19.86	19.63	23.98	-4.12	
5310	62	AVG	16.62	16.66	16.66	23.98	-7.32	
5510	102	AVG	17.80	17.85	17.54	23.98	-6.13	
5590	118	AVG	19.84	19.52	19.98	23.98	-4.14	
5630	126	AVG	19.86	19.55	19.97	23.98	-4.12	
5710	142	AVG	19.92	19.64	19.76	23.98	-4.06	
5755	151	AVG	19.83	19.81	19.40	30.00	-10.17	
5795	159	AVG	19.53	19.94	19.39	30.00	-10.06	

Table 7-7. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	IEEE Transmission Mode		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax		
	5210	42	AVG	16.33	15.95	23.98	-7.65
5290	58	AVG	16.26	16.36	23.98	-7.72	
5530	106	AVG	16.64	16.76	23.98	-7.34	
5610	122	AVG	19.49	19.53	23.98	-4.49	
5690	138	AVG	19.63	19.66	23.98	-4.35	
5775	155	AVG	18.98	18.32	30.00	-11.02	

Table 7-8. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	IEEE Transmission Mode		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax		
	5250	50	AVG	15.99	15.95	23.98	-7.99
5570	114	AVG	17.82	17.80	30.00	-12.18	

Table 7-9. SISO ANT1 160MHz BW (UNII) Maximum Conducted Output Power

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## SISO Antenna-2 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	IEEE Transmission Mode				Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11a	802.11n	802.11ac	802.11ax		
	5180	36	AVG	20.85	20.79	20.83	20.84	23.98	-3.13
	5200	40	AVG	20.87	20.75	20.78	20.79	23.98	-3.11
	5220	44	AVG	20.79	20.84	20.85	20.87	23.98	-3.13
	5240	48	AVG	20.86	20.85	20.86	20.80	23.98	-3.12
	5260	52	AVG	20.67	20.69	20.68	20.61	23.98	-3.29
	5280	56	AVG	20.77	20.67	20.68	20.64	23.98	-3.21
	5300	60	AVG	20.64	20.64	20.65	20.69	23.98	-3.33
	5320	64	AVG	20.58	20.53	20.56	20.50	23.98	-3.40
	5500	100	AVG	20.69	20.81	20.77	20.64	23.98	-3.17
	5600	120	AVG	20.99	20.60	20.93	20.65	23.98	-2.99
	5620	124	AVG	20.99	20.92	20.96	20.55	23.98	-2.99
	5720	144	AVG	19.65	19.66	19.62	19.60	23.98	-4.32
	5745	149	AVG	20.71	20.61	20.68	20.60	30.00	-9.29
5785	157	AVG	20.59	20.54	20.99	20.52	30.00	-9.01	
5825	165	AVG	20.92	20.25	20.62	20.97	30.00	-9.08	

Table 7-10. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	IEEE Transmission Mode			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n	802.11ac	802.11ax		
	5190	38	AVG	16.13	16.18	16.22	23.98	-7.80
	5230	46	AVG	16.19	16.20	16.43	23.98	-7.78
	5270	54	AVG	19.99	19.96	19.90	23.98	-3.99
	5310	62	AVG	16.51	16.48	16.52	23.98	-7.47
	5510	102	AVG	17.92	17.82	17.78	23.98	-6.06
	5590	118	AVG	19.82	19.84	19.71	23.98	-4.14
	5630	126	AVG	19.78	19.88	19.76	23.98	-4.10
	5710	142	AVG	19.57	19.62	19.99	23.98	-4.36
5755	151	AVG	19.72	19.71	19.74	30.00	-10.28	
5795	159	AVG	19.58	19.60	19.63	30.00	-10.40	

Table 7-11. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	IEEE Transmission Mode		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax		
	5210	42	AVG	16.24	15.85	23.98	-7.74
5290	58	AVG	16.12	16.17	23.98	-7.86	
5530	106	AVG	16.82	16.99	23.98	-7.16	
5610	122	AVG	19.99	19.56	23.98	-3.99	
5690	138	AVG	19.92	19.99	23.98	-4.06	
5775	155	AVG	18.89	18.52	30.00	-11.11	

Table 7-12. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	IEEE Transmission Mode		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax		
	5250	50	AVG	15.98	15.90	23.98	-8.00
5570	114	AVG	17.60	17.63	30.00	-12.40	

Table 7-13. SISO ANT2 160MHz BW (UNII) Maximum Conducted Output Power

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## MIMO Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5180	36	AVG	17.65	17.24	20.46	23.98	-3.52
5200	40	AVG	17.69	17.21	20.47	23.98	-3.51	
5220	44	AVG	17.68	17.24	20.48	23.98	-3.50	
5240	48	AVG	17.66	17.26	20.47	23.98	-3.51	
5260	52	AVG	17.50	17.09	20.31	23.98	-3.67	
5280	56	AVG	17.97	17.50	20.75	23.98	-3.23	
5300	60	AVG	17.98	17.60	20.80	23.98	-3.18	
5320	64	AVG	17.77	17.17	20.49	23.98	-3.49	
5500	100	AVG	17.76	17.18	20.49	23.98	-3.49	
5600	120	AVG	17.53	17.27	20.41	23.98	-3.57	
5620	124	AVG	17.75	17.19	20.49	23.98	-3.49	
5720	144	AVG	17.53	17.27	20.41	23.98	-3.57	
5745	149	AVG	20.56	20.71	23.65	30.00	-6.35	
5785	157	AVG	20.96	20.59	23.79	30.00	-6.21	
5825	165	AVG	20.94	20.92	23.94	30.00	-6.06	

Table 7-14. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5180	36	AVG	17.54	17.21	20.39	23.98	-3.59
5200	40	AVG	17.53	17.16	20.36	23.98	-3.62	
5220	44	AVG	17.57	17.21	20.40	23.98	-3.58	
5240	48	AVG	17.99	17.67	20.84	23.98	-3.14	
5260	52	AVG	17.88	17.44	20.68	23.98	-3.30	
5280	56	AVG	17.86	17.47	20.68	23.98	-3.30	
5300	60	AVG	17.86	17.47	20.68	23.98	-3.30	
5320	64	AVG	17.66	17.05	20.38	23.98	-3.60	
5500	100	AVG	17.66	17.15	20.42	23.98	-3.56	
5600	120	AVG	17.66	17.14	20.42	23.98	-3.56	
5620	124	AVG	17.57	17.36	20.48	23.98	-3.50	
5720	144	AVG	17.89	17.57	20.74	23.98	-3.24	
5745	149	AVG	20.99	20.61	23.81	30.00	-6.19	
5785	157	AVG	20.77	20.54	23.67	30.00	-6.33	
5825	165	AVG	20.45	20.25	23.36	30.00	-6.64	

Table 7-15. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5180	36	AVG	17.53	17.15	20.35	23.98	-3.63
5200	40	AVG	17.60	17.15	20.39	23.98	-3.59	
5220	44	AVG	17.54	17.22	20.39	23.98	-3.59	
5240	48	AVG	17.56	17.21	20.40	23.98	-3.58	
5260	52	AVG	17.89	17.44	20.68	23.98	-3.30	
5280	56	AVG	17.88	17.39	20.65	23.98	-3.33	
5300	60	AVG	17.84	17.44	20.65	23.98	-3.33	
5320	64	AVG	17.54	17.05	20.31	23.98	-3.67	
5500	100	AVG	17.64	17.07	20.37	23.98	-3.61	
5600	120	AVG	17.65	17.14	20.41	23.98	-3.57	
5620	124	AVG	17.60	17.31	20.47	23.98	-3.51	
5720	144	AVG	17.88	17.52	20.71	23.98	-3.27	
5745	149	AVG	20.57	20.68	23.64	30.00	-6.36	
5785	157	AVG	20.85	20.99	23.93	30.00	-6.07	
5825	165	AVG	20.55	20.62	23.60	30.00	-6.40	

Table 7-16. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5180	36	AVG	17.56	17.18	20.38	23.98	-3.60
5200	40	AVG	17.55	17.18	20.38	23.98	-3.60	
5220	44	AVG	17.52	17.18	20.36	23.98	-3.62	
5240	48	AVG	17.53	17.21	20.38	23.98	-3.60	
5260	52	AVG	17.98	17.51	20.76	23.98	-3.22	
5280	56	AVG	17.97	17.48	20.74	23.98	-3.24	
5300	60	AVG	17.94	17.45	20.71	23.98	-3.27	
5320	64	AVG	17.62	17.08	20.37	23.98	-3.61	
5500	100	AVG	17.71	17.07	20.41	23.98	-3.57	
5600	120	AVG	17.71	17.20	20.47	23.98	-3.51	
5620	124	AVG	17.64	17.26	20.46	23.98	-3.52	
5720	144	AVG	17.95	17.57	20.77	23.98	-3.21	
5745	149	AVG	20.99	20.60	23.81	30.00	-6.19	
5785	157	AVG	20.75	20.52	23.65	30.00	-6.35	
5825	165	AVG	20.80	20.97	23.90	30.00	-6.10	

Table 7-17. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 97 of 284

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5190	38	AVG	16.05	16.13	19.10	23.98	-4.88
	5230	46	AVG	16.19	16.19	19.20	23.98	-4.78
	5270	54	AVG	19.76	19.99	22.89	23.98	-1.09
	5310	62	AVG	16.62	16.51	19.58	23.98	-4.40
	5510	102	AVG	17.80	17.92	20.87	23.98	-3.11
	5590	118	AVG	19.84	19.82	22.84	23.98	-1.14
	5630	126	AVG	19.86	19.78	22.83	23.98	-1.15
	5710	142	AVG	19.92	19.57	22.76	23.98	-1.22
5755	151	AVG	19.83	19.72	22.79	30.00	-7.21	
5795	159	AVG	19.53	19.58	22.57	30.00	-7.43	

Table 7-18. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5190	38	AVG	16.11	16.18	19.16	23.98	-4.82
	5230	46	AVG	16.20	16.20	19.21	23.98	-4.77
	5270	54	AVG	19.86	19.96	22.92	23.98	-1.06
	5310	62	AVG	16.66	16.48	19.58	23.98	-4.40
	5510	102	AVG	17.85	17.82	20.85	23.98	-3.13
	5590	118	AVG	19.52	19.84	22.69	23.98	-1.29
	5630	126	AVG	19.55	19.88	22.73	23.98	-1.25
	5710	142	AVG	19.64	19.62	22.64	23.98	-1.34
5755	151	AVG	19.81	19.71	22.77	30.00	-7.23	
5795	159	AVG	19.94	19.60	22.78	30.00	-7.22	

Table 7-19. MIMO 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 98 of 284

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5190	38	AVG	16.34	16.22	19.29	23.98	-4.69
	5230	46	AVG	16.29	16.13	19.22	23.98	-4.76
	5270	54	AVG	19.63	19.90	22.78	23.98	-1.20
	5310	62	AVG	16.66	16.52	19.60	23.98	-4.38
	5510	102	AVG	17.54	17.78	20.67	23.98	-3.31
	5590	118	AVG	19.98	19.71	22.86	23.98	-1.12
	5630	126	AVG	19.97	19.76	22.88	23.98	-1.10
	5710	142	AVG	19.76	19.99	22.89	23.98	-1.09
5755	151	AVG	19.40	19.74	22.58	30.00	-7.42	
5795	159	AVG	19.39	19.63	22.52	30.00	-7.48	

Table 7-20. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5210	42	AVG	16.33	16.24	19.30	23.98	-4.68
	5290	58	AVG	16.26	16.12	19.20	23.98	-4.78
	5530	106	AVG	16.64	16.82	19.74	23.98	-4.24
	5610	122	AVG	19.49	19.99	22.76	23.98	-1.22
	5690	138	AVG	19.63	19.92	22.79	23.98	-1.19
5775	155	AVG	18.98	18.89	21.95	30.00	-8.05	

Table 7-21. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5210	42	AVG	15.95	15.85	18.91	23.98	-5.07
	5290	58	AVG	16.36	16.17	19.28	23.98	-4.70
	5530	106	AVG	16.76	16.99	19.89	23.98	-4.09
	5610	122	AVG	19.53	19.56	22.56	23.98	-1.42
	5690	138	AVG	19.66	19.99	22.84	23.98	-1.14
5775	155	AVG	18.32	18.52	21.43	30.00	-8.57	

Table 7-22. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 99 of 284

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5250	50	AVG	15.99	15.98	19.00	23.98	-4.98
5570	114	AVG	17.82	17.60	20.72	30.00	-9.28	

**Table 7-23. MIMO 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power**

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				ANT1	ANT2	MIMO		
	5250	50	AVG	15.95	15.90	18.94	23.98	-5.04
5570	114	AVG	17.80	17.63	20.73	30.00	-9.27	

**Table 7-24. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power**

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 100 of 284





**Note:**

Per ANSI C63.10-2013 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where  $G_N$  is the gain of the nth antenna and  $N_{ANT}$ , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

**Sample MIMO Calculation:**

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 18.04 dBm for Antenna 1 and 17.71 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(18.04 \text{ dBm} + 17.71 \text{ dBm}) = (63.68 \text{ mW} + 59.02 \text{ mW}) = 122.70 \text{ mW} = 20.89 \text{ dBm}$$

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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**7.5 Maximum Power Spectral Density – 802.11a/n/ac/ax**  
§15.407(a.1.iv) §15.407(a.2) §15.407(a.3)

**Test Overview and Limit**

The spectrum analyzer was connected to the antenna terminal while the EUT was 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. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

***In the 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.***

***In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.***

**Test Procedure Used**

ANSI C63.10-2013 – Section 12.3.2.2  
 KDB 789033 D02 v02r01 – Section F  
 ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique  
 KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

**Test Settings**

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points  $\geq 2 \times$  (span/RBW)
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

**Test Setup**

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



**Figure 7-4. Test Instrument & Measurement Setup**

**Test Notes**

None

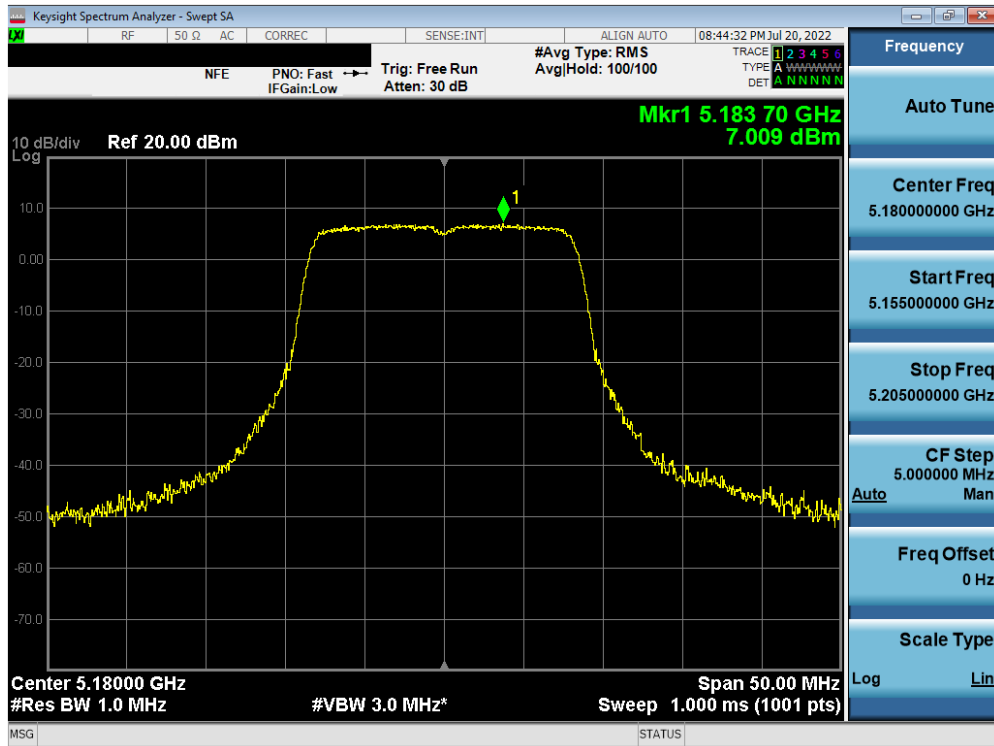
FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 102 of 284

## SISO Antenna-1 Power Spectral Density Measurements

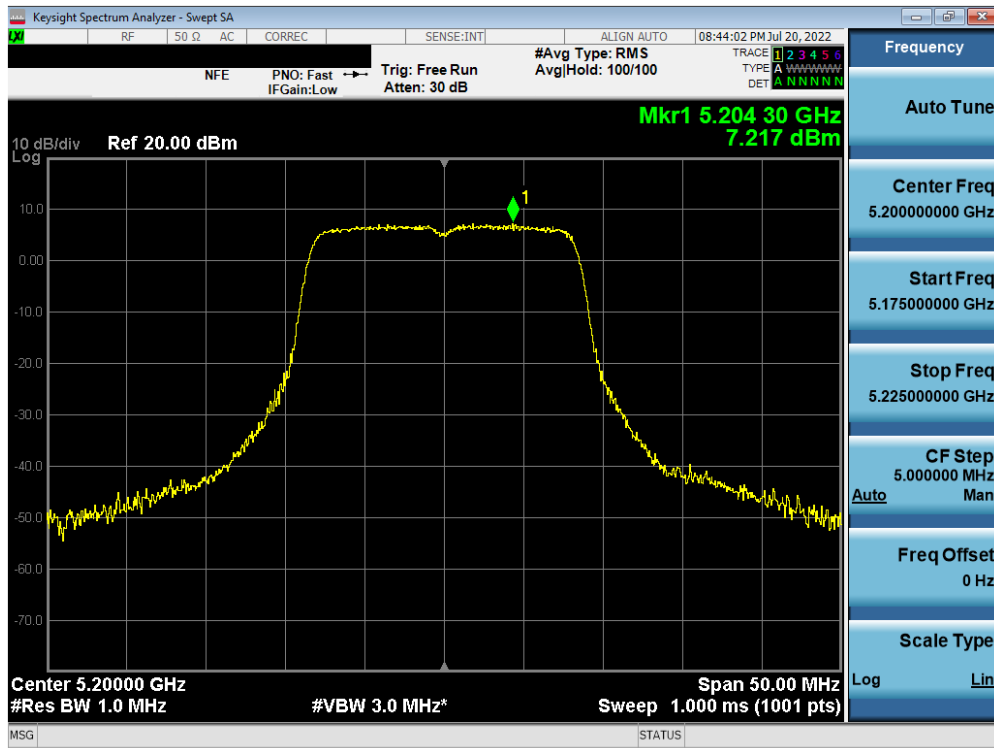
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	7.01	11.0	-3.99
	5200	40	a	6	7.22	11.0	-3.78
	5240	48	a	6	7.14	11.0	-3.86
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	6.65	11.0	-4.35
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.85	11.0	-4.15
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	7.04	11.0	-3.96
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	6.28	11.0	-4.72
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	6.68	11.0	-4.32
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	6.97	11.0	-4.03
	5190	38	n (40MHz)	13.5/15 (MCS0)	2.57	11.0	-8.43
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.64	11.0	-8.36
	5190	38	ax (40MHz)	13.5/15 (MCS0)	2.42	11.0	-8.58
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.61	11.0	-8.39
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-0.86	11.0	-11.86
5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-0.53	11.0	-11.53	
Band 1/2A	5250	50	ac (160MHz)	58.5/65 (MCS0)	0.69	11.0	-10.31
	5250	50	ax (160MHz)	58.5/65 (MCS0)	-1.99	11.0	-12.99
Band 2A	5260	52	a	6	10.61	11.0	-0.40
	5280	56	a	6	10.43	11.0	-0.57
	5320	64	a	6	10.76	11.0	-0.24
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	10.30	11.0	-0.70
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	10.35	11.0	-0.65
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	10.61	11.0	-0.39
	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	10.31	11.0	-0.69
	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	10.36	11.0	-0.64
	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	10.47	11.0	-0.53
	5270	54	n (40MHz)	13.5/15 (MCS0)	6.28	11.0	-4.72
	5310	62	n (40MHz)	13.5/15 (MCS0)	3.65	11.0	-7.36
	5270	54	ax (40MHz)	13.5/15 (MCS0)	5.94	11.0	-5.06
	5310	62	ax (40MHz)	13.5/15 (MCS0)	3.91	11.0	-7.09
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	0.69	11.0	-10.31
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	0.82	11.0	-10.18
	Band 2C	5500	100	a	6	10.49	11.0
5600		120	a	6	9.91	11.0	-1.09
5720		144	a	6	10.12	11.0	-0.88
5500		100	n (20MHz)	6.5/7.2 (MCS0)	10.60	11.0	-0.40
5600		120	n (20MHz)	6.5/7.2 (MCS0)	10.19	11.0	-0.81
5720		144	n (20MHz)	6.5/7.2 (MCS0)	10.24	11.0	-0.76
5500		100	ax (20MHz)	6.5/7.2 (MCS0)	10.65	11.0	-0.35
5600		120	ax (20MHz)	6.5/7.2 (MCS0)	10.07	11.0	-0.93
5720		144	ax (20MHz)	6.5/7.2 (MCS0)	10.18	11.0	-0.82
5510		102	n (40MHz)	13.5/15 (MCS0)	5.23	11.0	-5.77
5590		118	n (40MHz)	13.5/15 (MCS0)	6.08	11.0	-4.92
5710		142	n (40MHz)	13.5/15 (MCS0)	6.50	11.0	-4.50
5510		102	ax (40MHz)	13.5/15 (MCS0)	3.98	11.0	-7.02
5590		118	ax (40MHz)	13.5/15 (MCS0)	6.61	11.0	-4.39
5710		142	ax (40MHz)	13.5/15 (MCS0)	6.59	11.0	-4.41
5530		106	ac (80MHz)	29.3/32.5 (MCS0)	1.86	11.0	-9.14
5610		122	ac (80MHz)	29.3/32.5 (MCS0)	2.99	11.0	-8.01
5690		138	ac (80MHz)	29.3/32.5 (MCS0)	2.63	11.0	-8.37
5530		106	ax (80MHz)	29.3/32.5 (MCS0)	-0.14	11.0	-11.14
5610		122	ax (80MHz)	29.3/32.5 (MCS0)	2.92	11.0	-8.08
5690	138	ax (80MHz)	29.3/32.5 (MCS0)	2.78	11.0	-8.22	
5570	114	ac (160MHz)	58.5/65 (MCS0)	3.97	11.0	-7.03	
5570	114	ax (160MHz)	58.5/65 (MCS0)	-1.74	11.0	-12.74	

Table 7-25. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 103 of 284

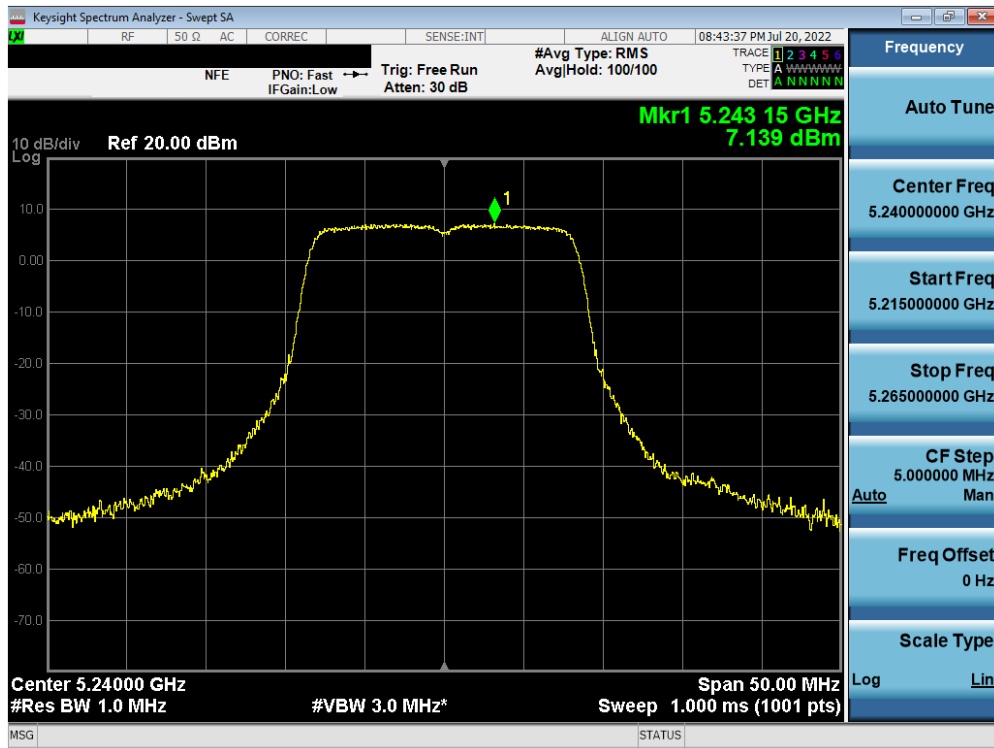


Plot 7-141. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) – Ch. 36)

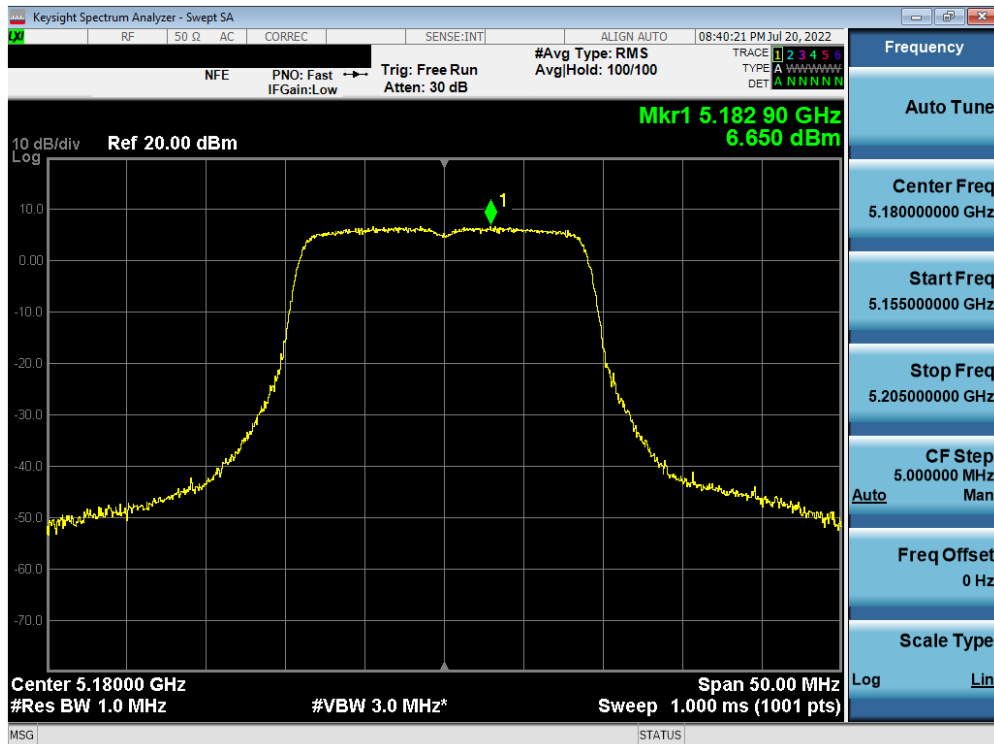


Plot 7-142. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) – Ch. 40)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 104 of 284

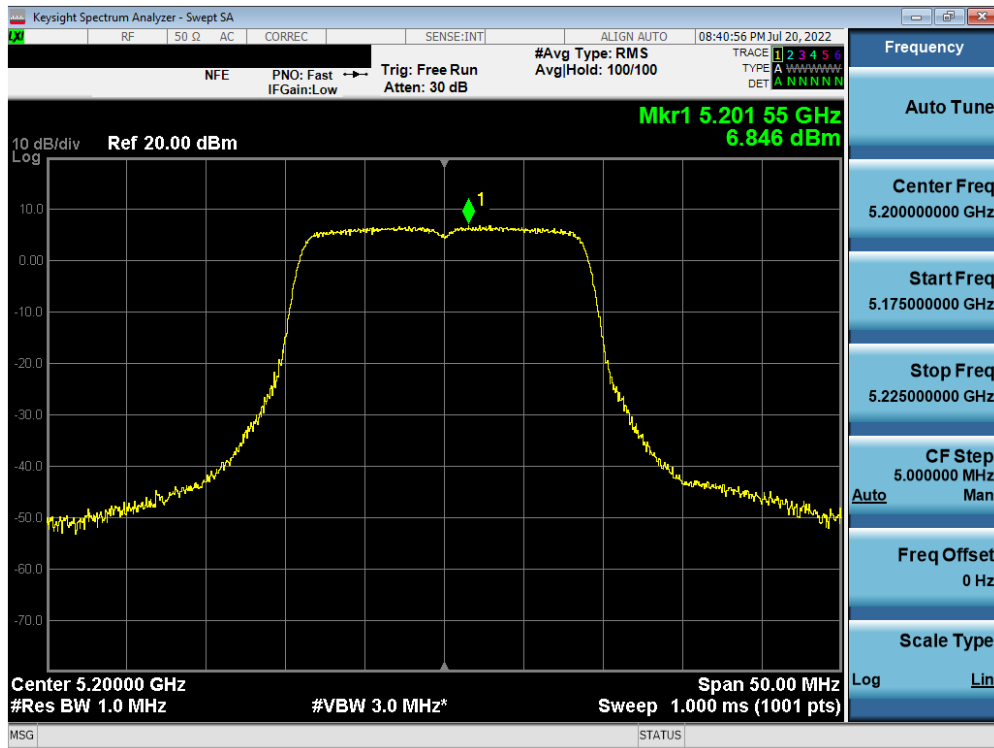


Plot 7-143. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 1) – Ch. 48)

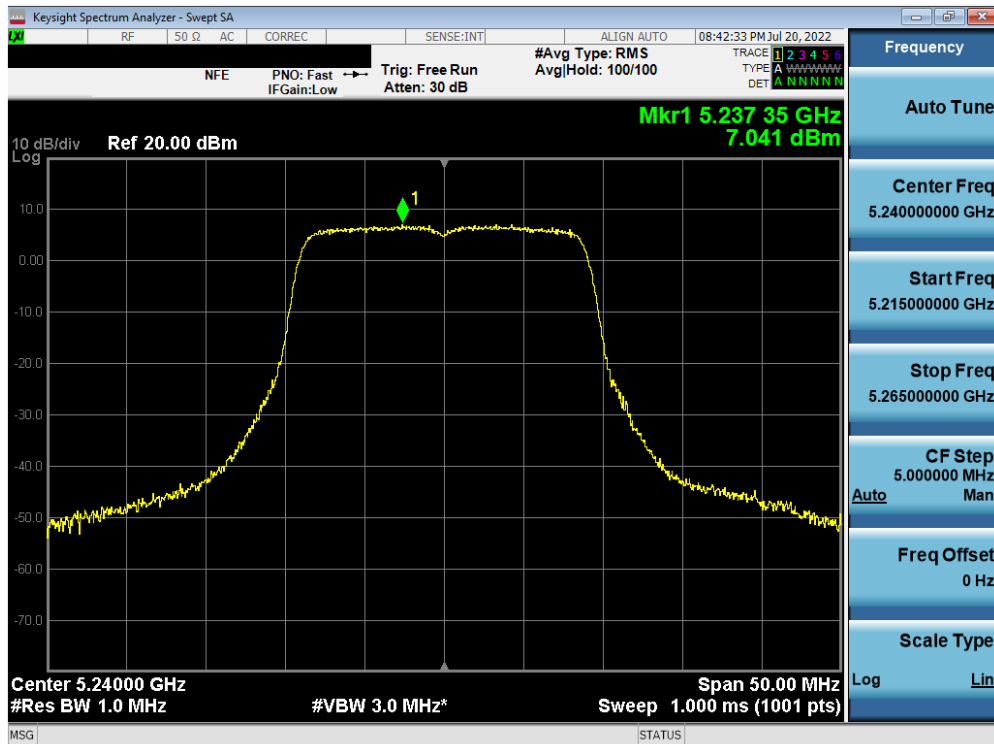


Plot 7-144. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 105 of 284

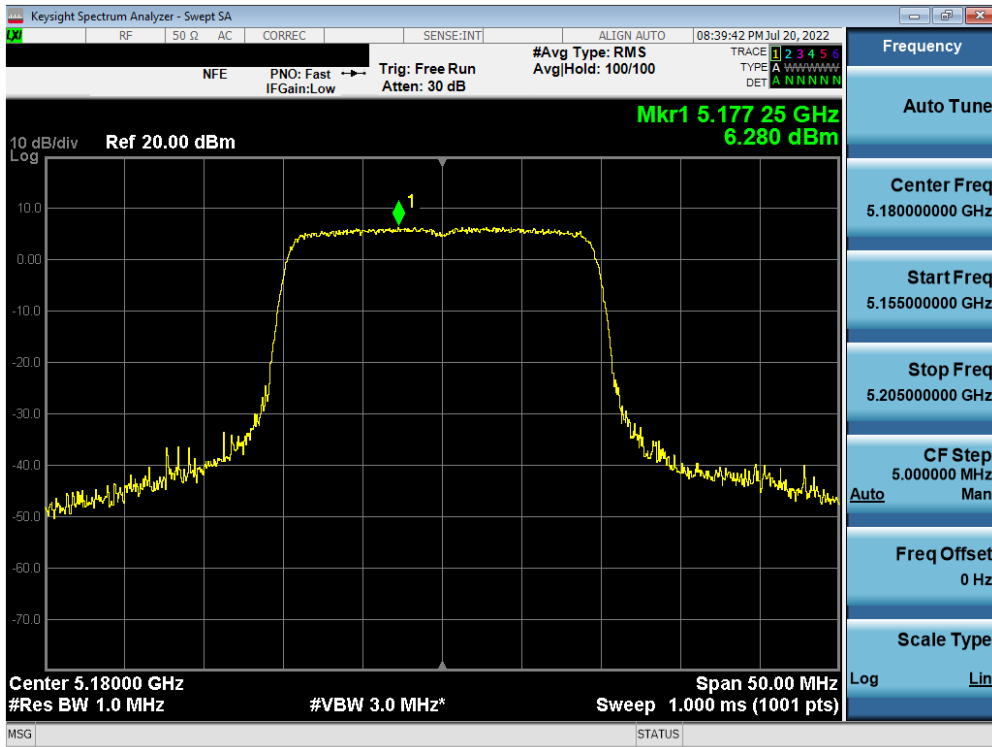


Plot 7-145. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

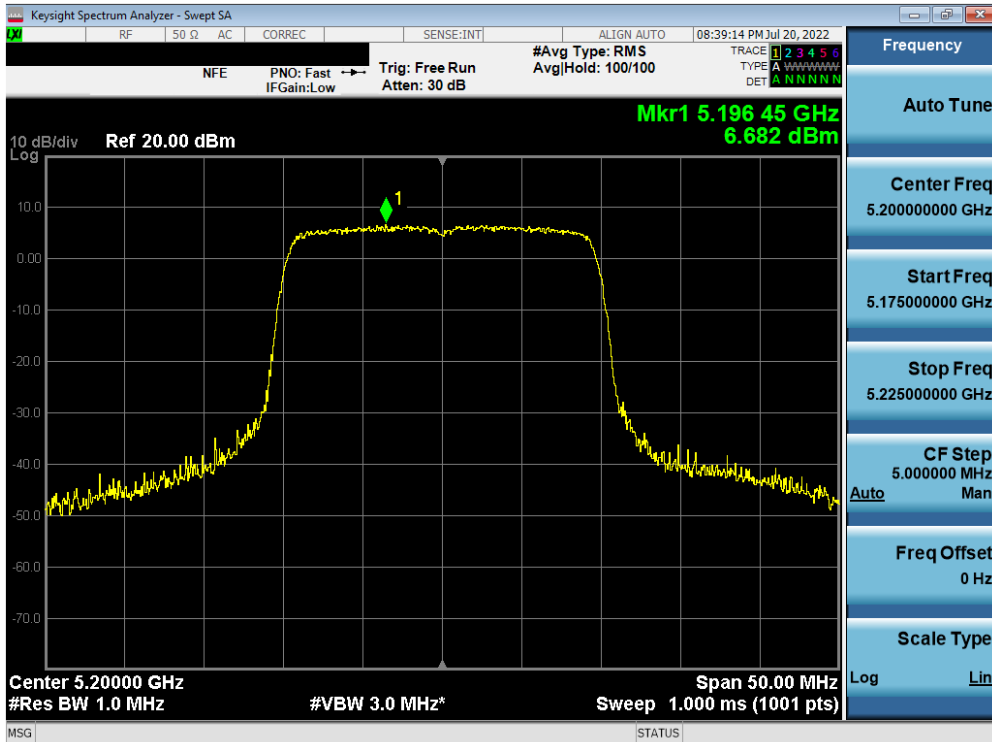


Plot 7-146. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
FCC ID: C3K1997	Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	Page 106 of 284
	EUT Type: Portable Computing Device		



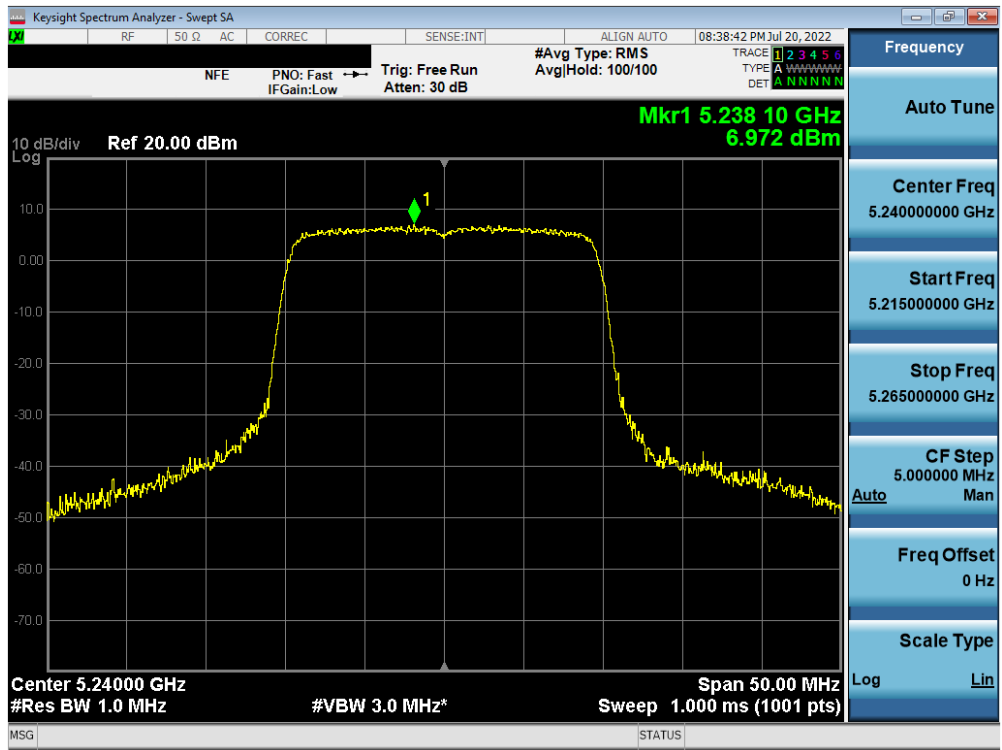
Plot 7-147. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 36)



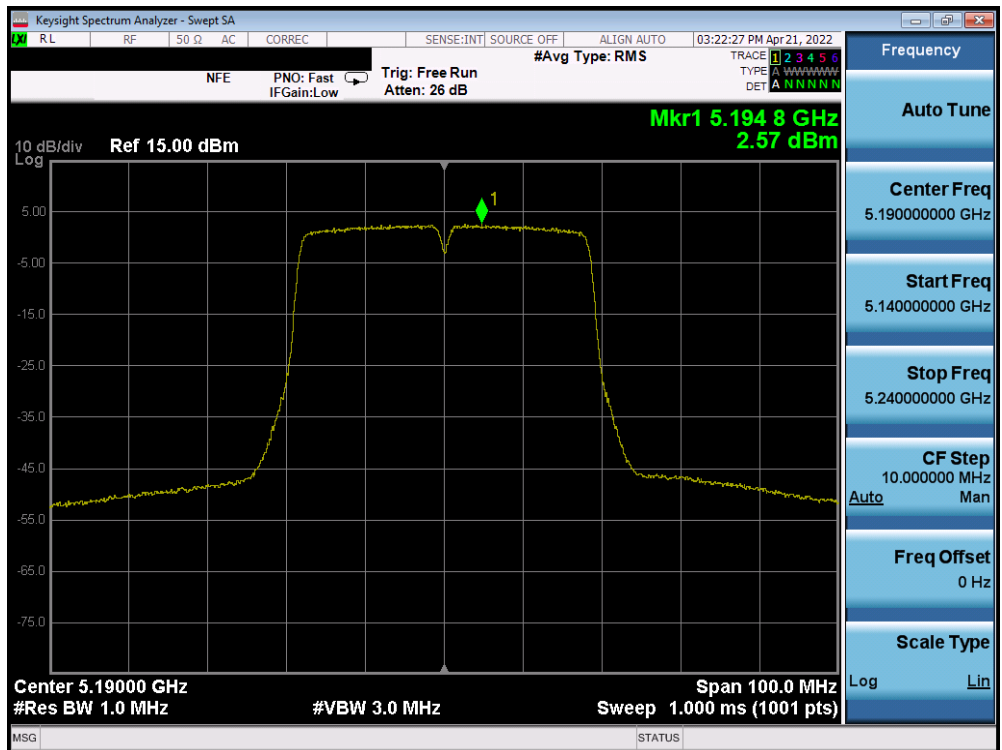
Plot 7-148. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 107 of 284



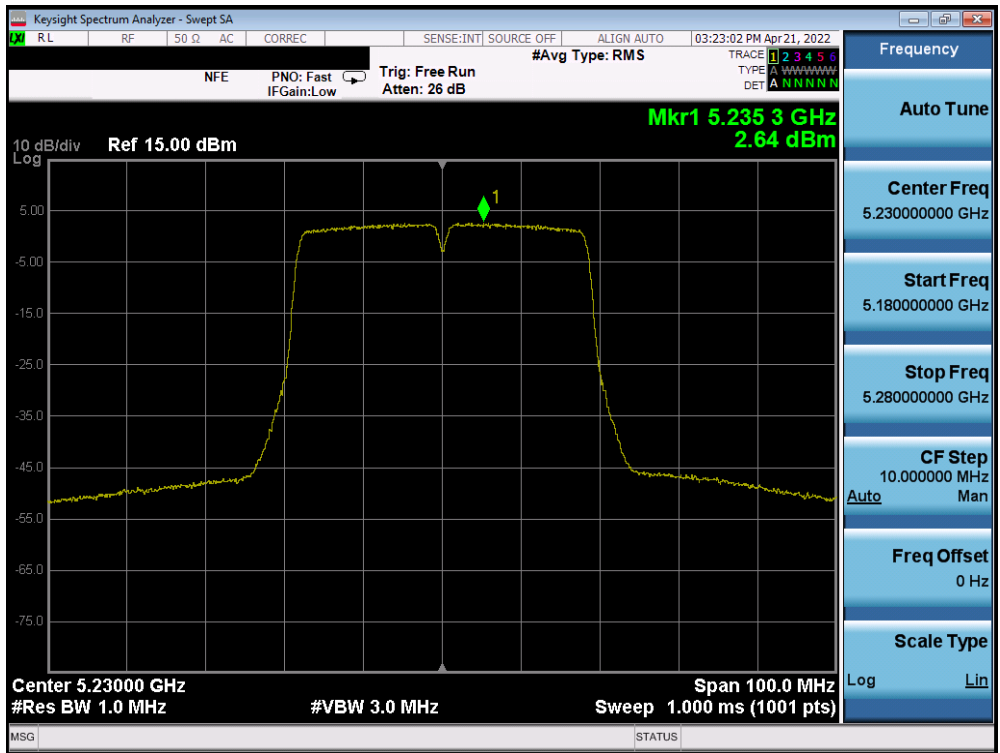


Plot 7-149. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) – Ch. 48)

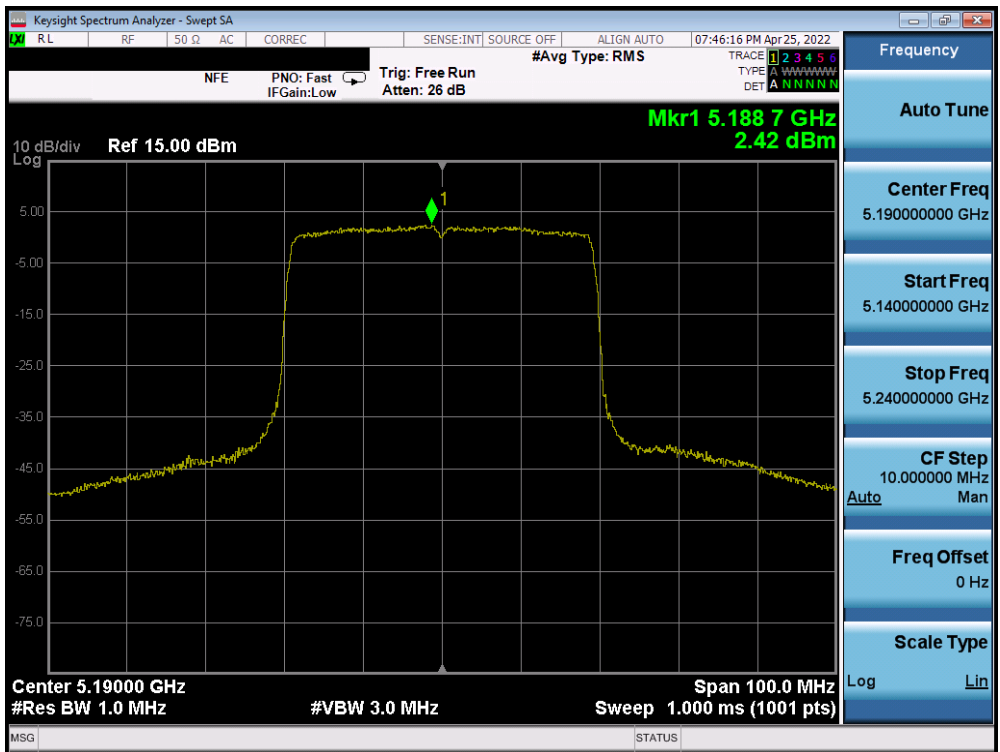


Plot 7-150. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 108 of 284

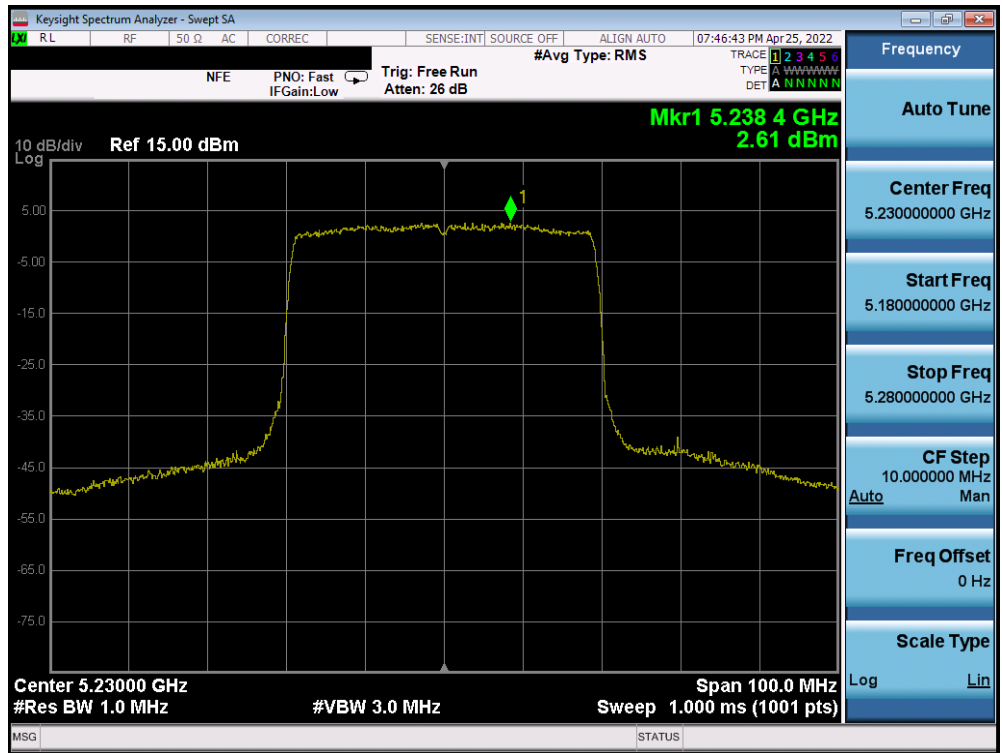


Plot 7-151. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

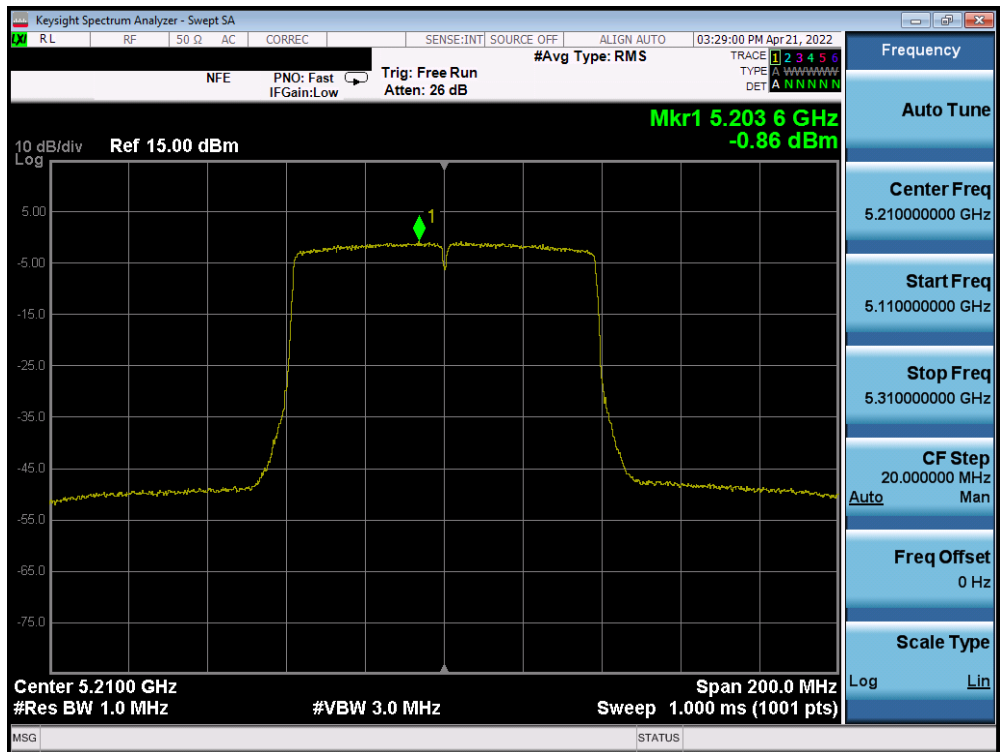


Plot 7-152. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-15-R1.C3K	Test Dates: 3/14/2022-7/1/2022	EUT Type: Portable Computing Device	Page 109 of 284

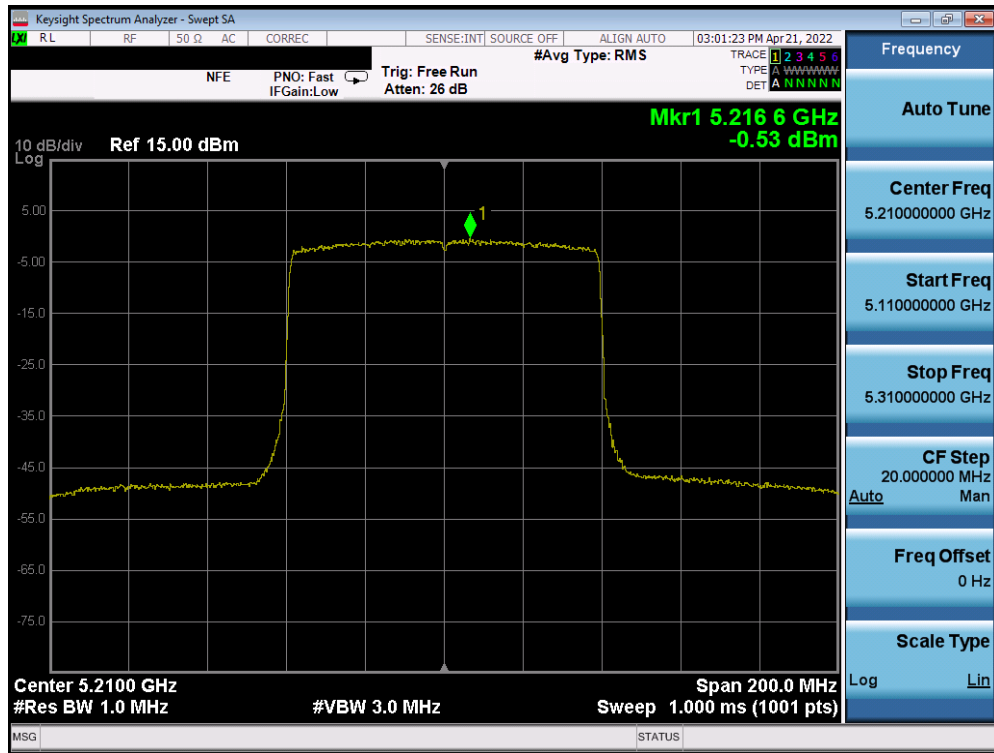


Plot 7-153. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) – Ch. 46)

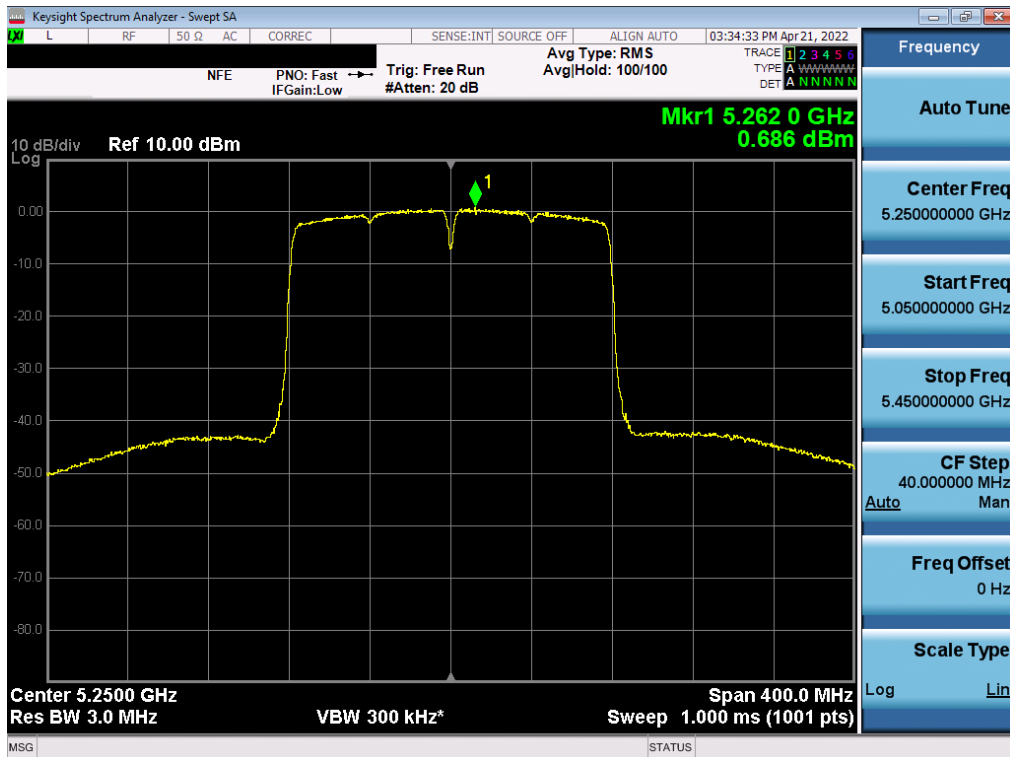


Plot 7-154. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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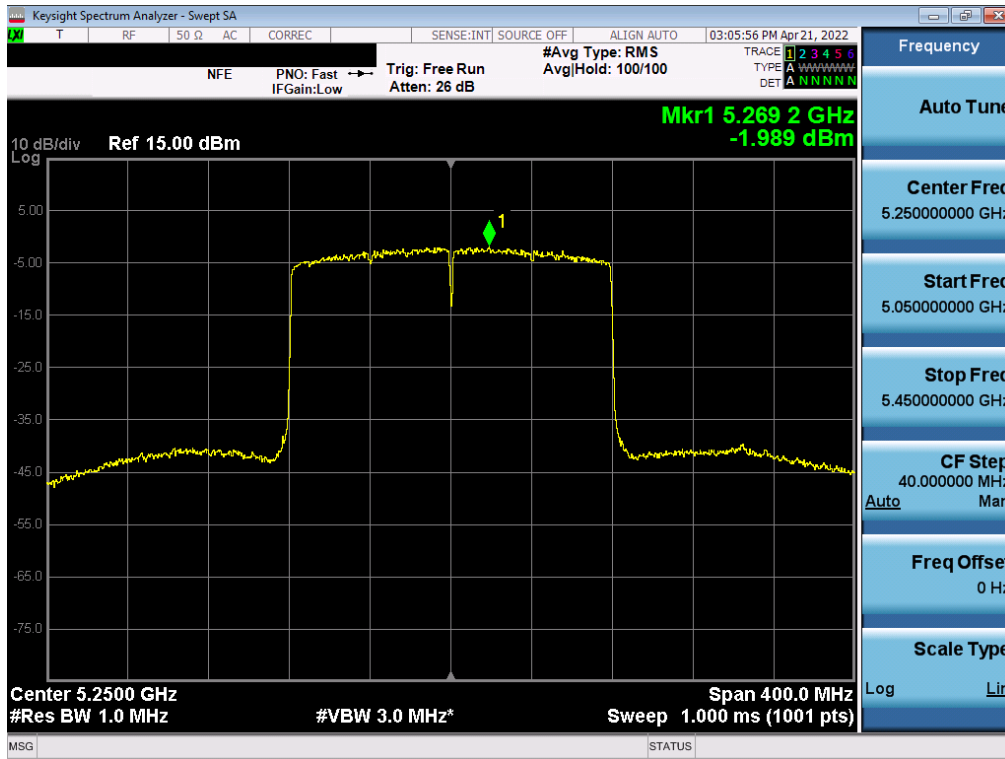


Plot 7-155. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

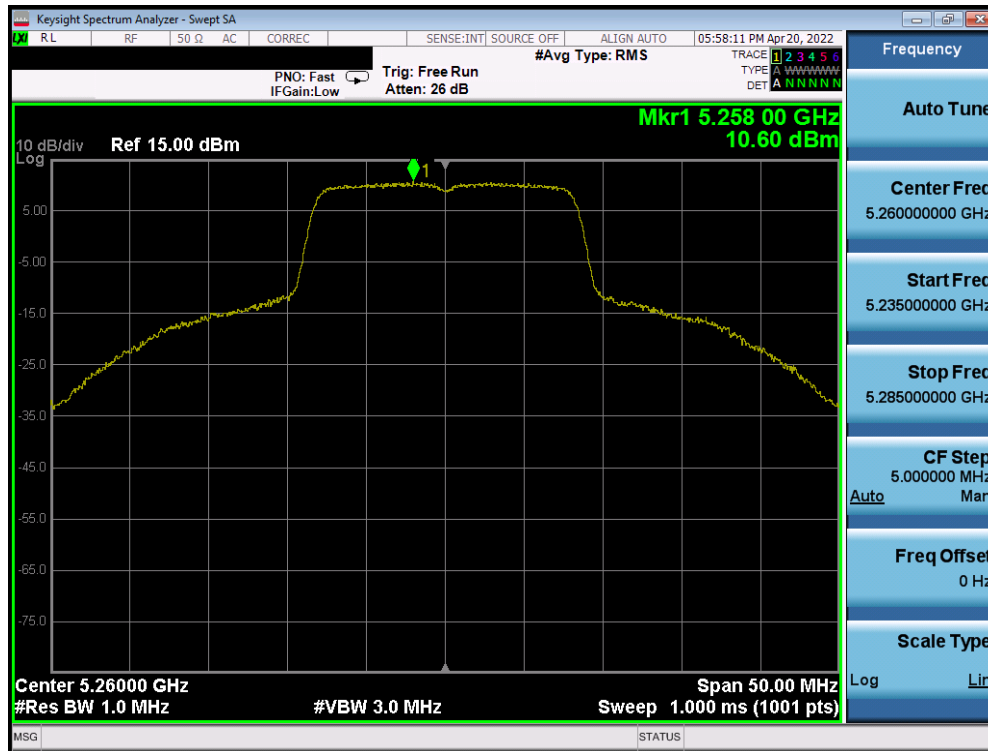


Plot 7-156. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ac (UNII Band 1) – Ch. 50)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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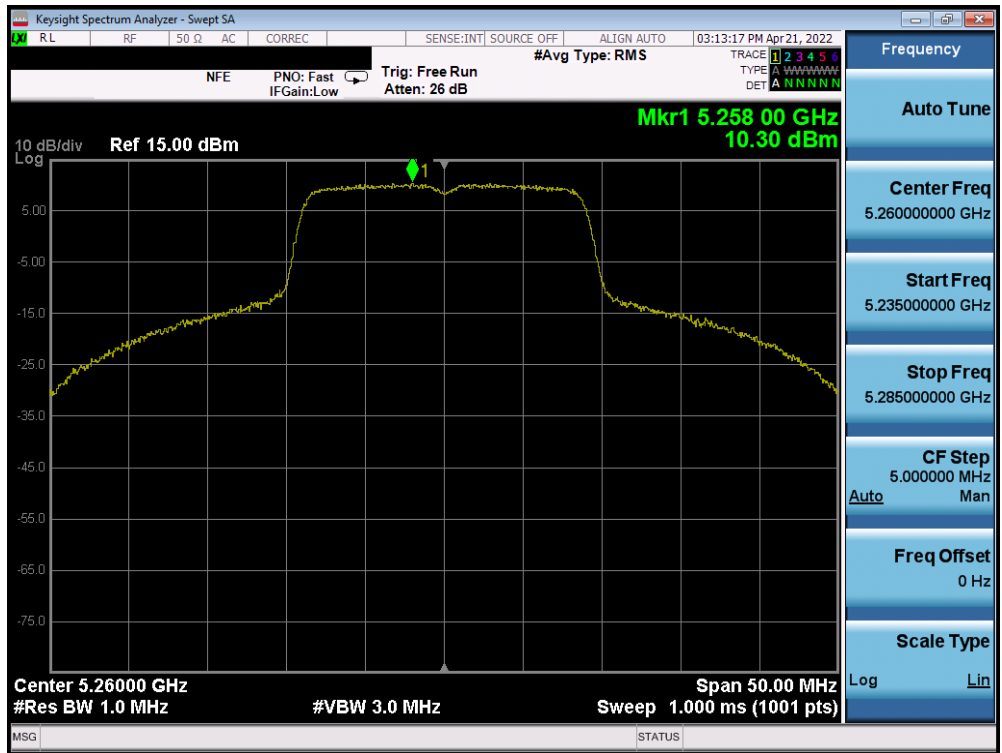
Plot 7-157. Power Spectral Density Plot SISO ANT1 (160MHz BW 802.11ax (UNII Band 1) – Ch. 50)



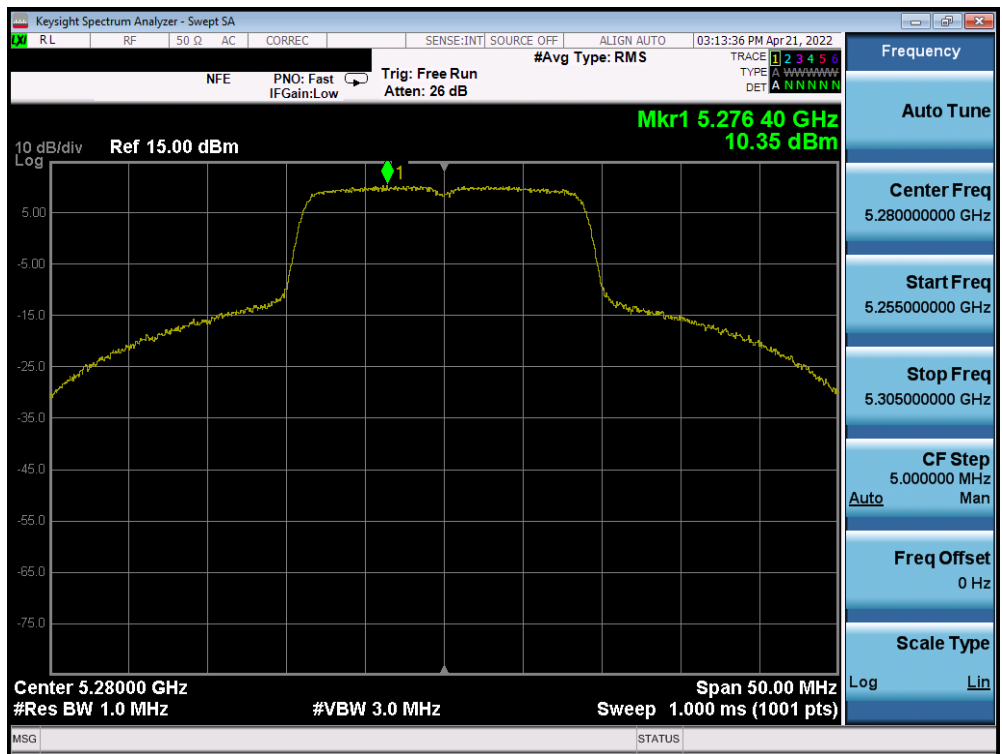
Plot 7-158. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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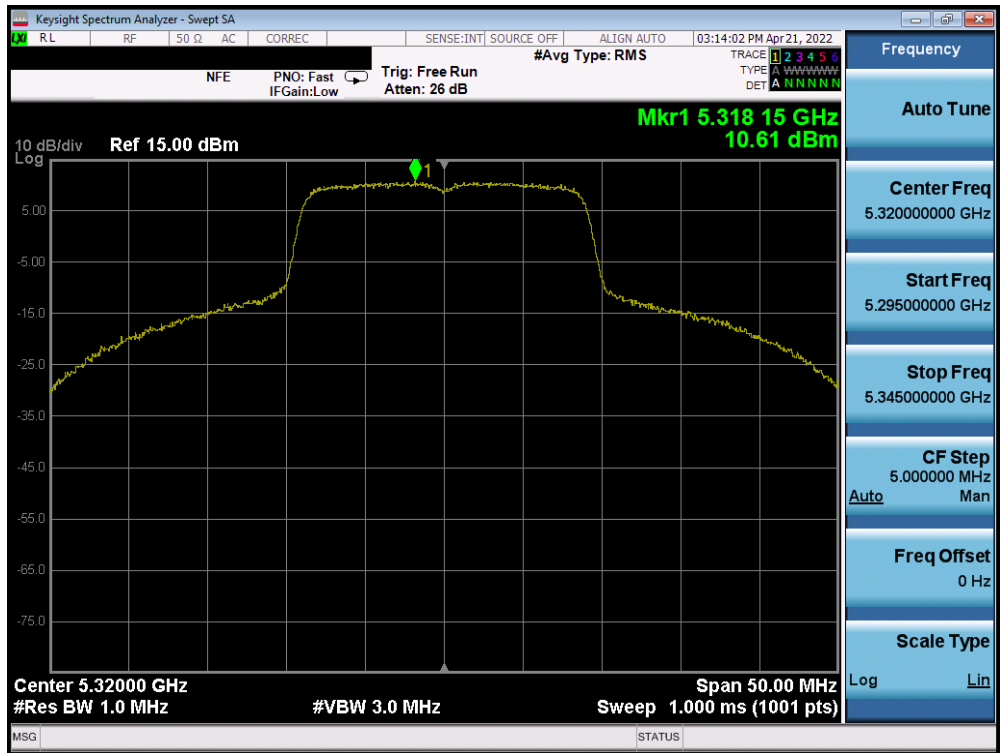
Plot 7-161. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)



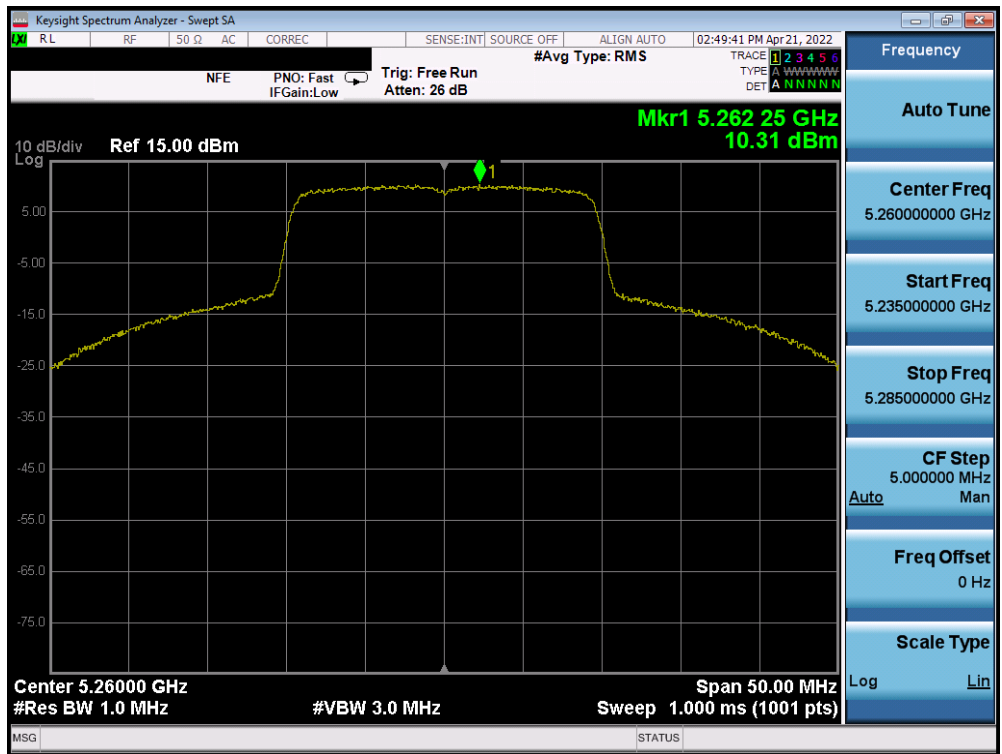
Plot 7-162. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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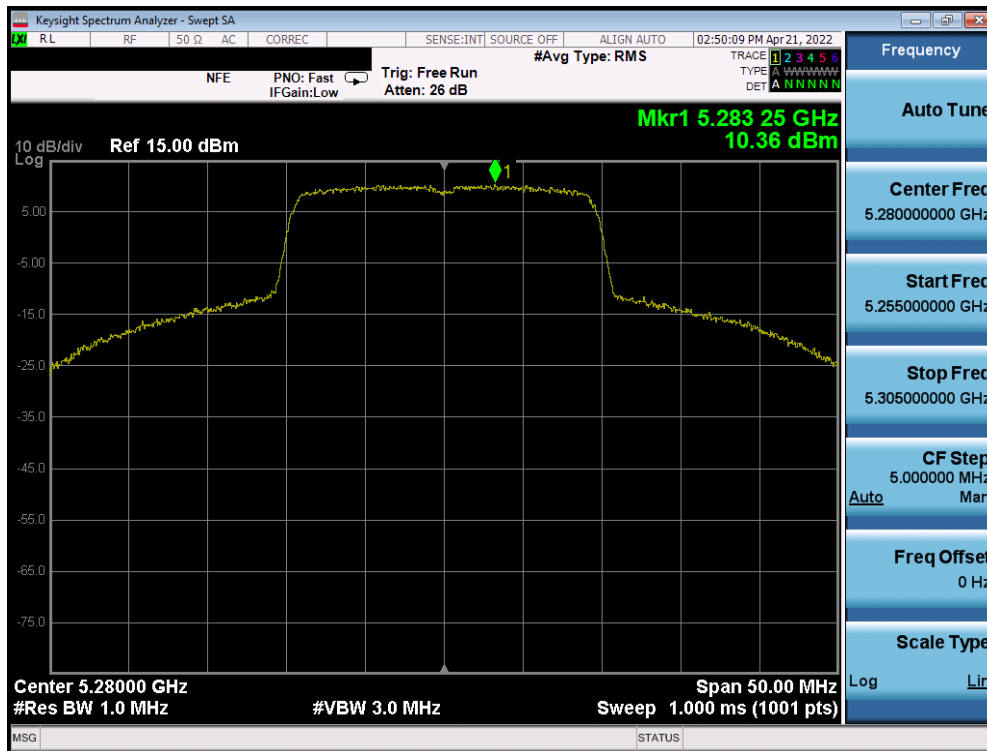


Plot 7-163. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

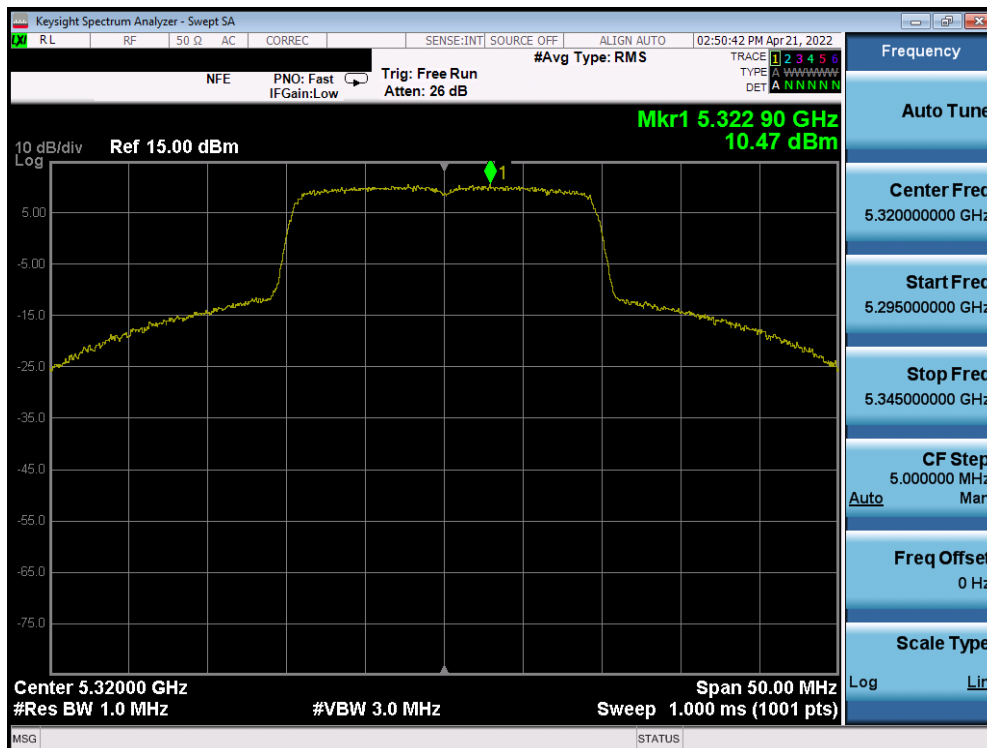


Plot 7-164. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 52)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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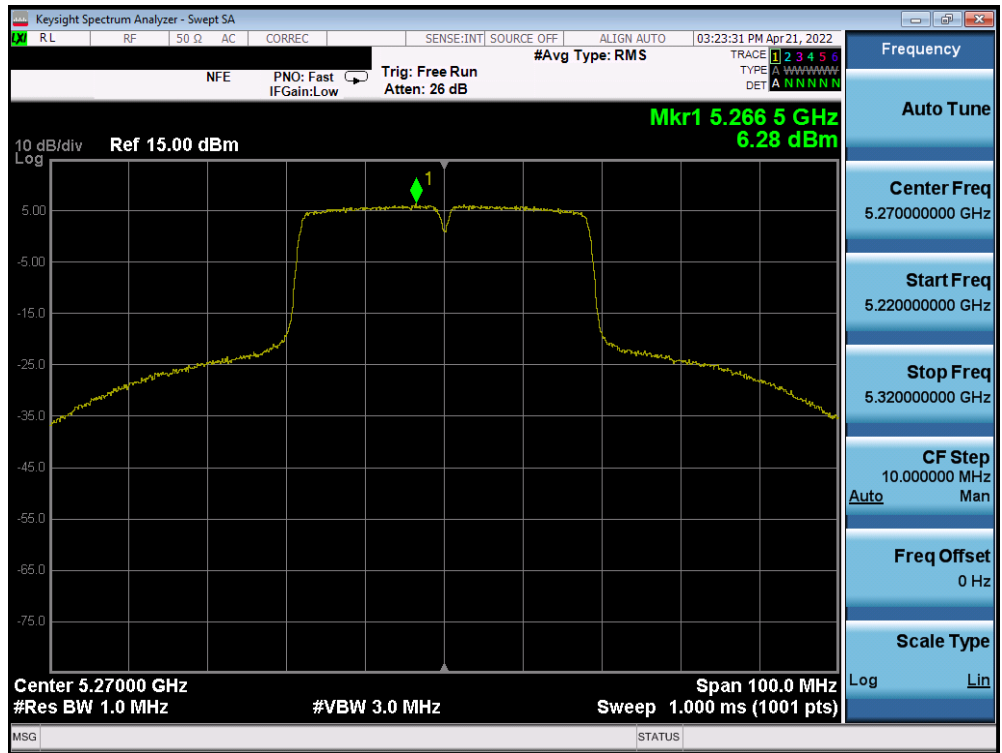


Plot 7-165. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 56)

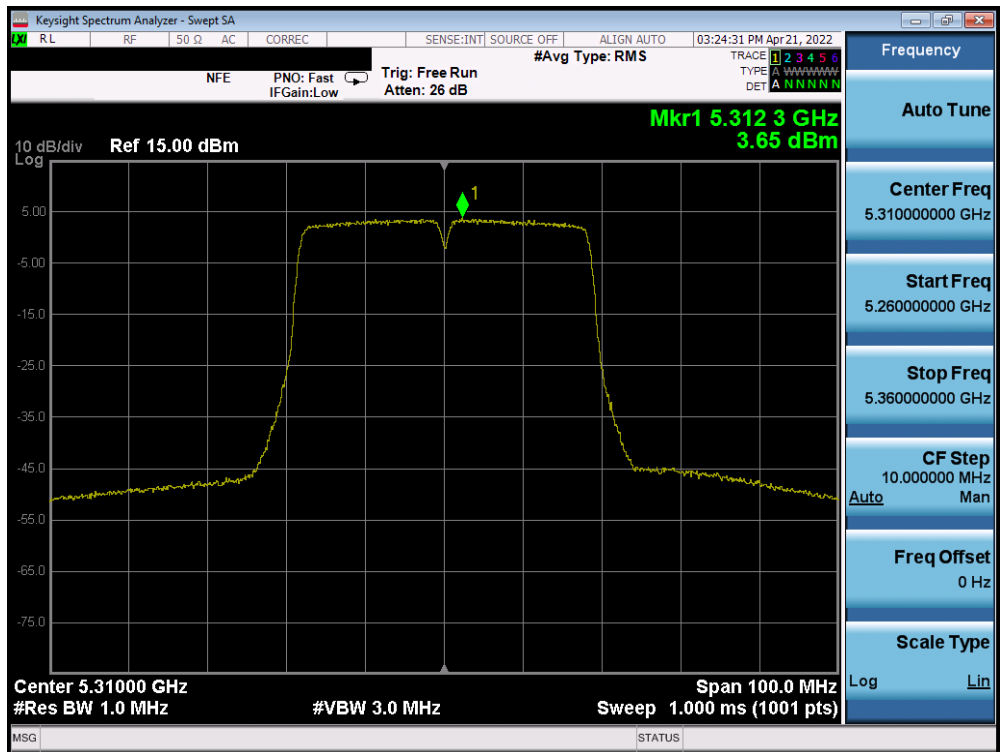


Plot 7-166. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 64)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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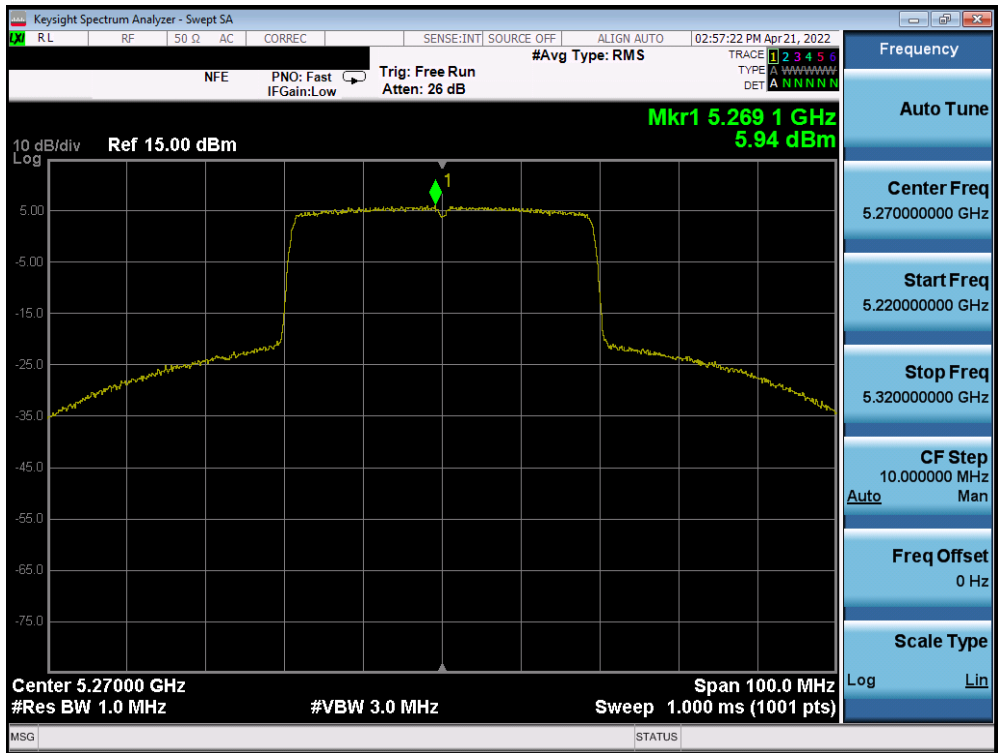


Plot 7-167. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

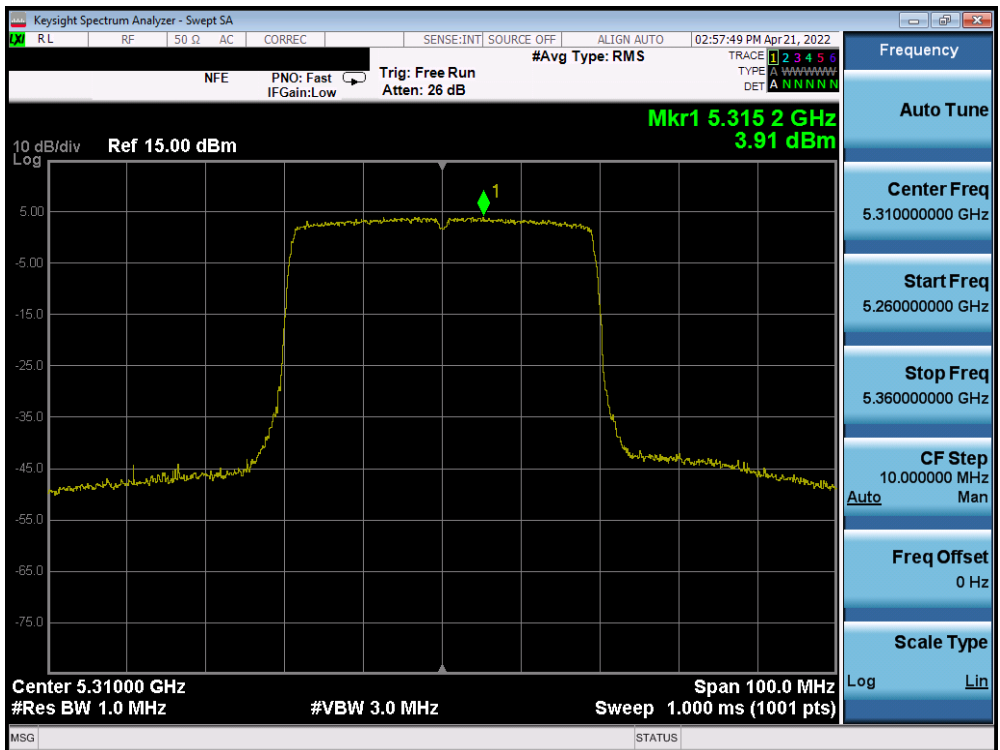


Plot 7-168. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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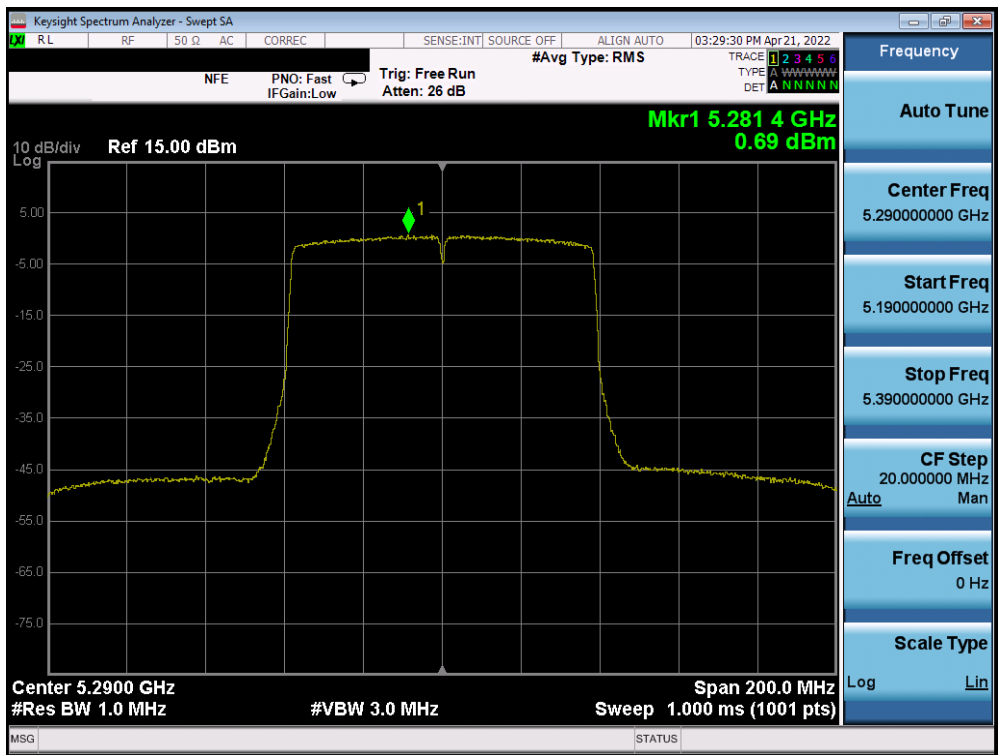


Plot 7-169. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 54)

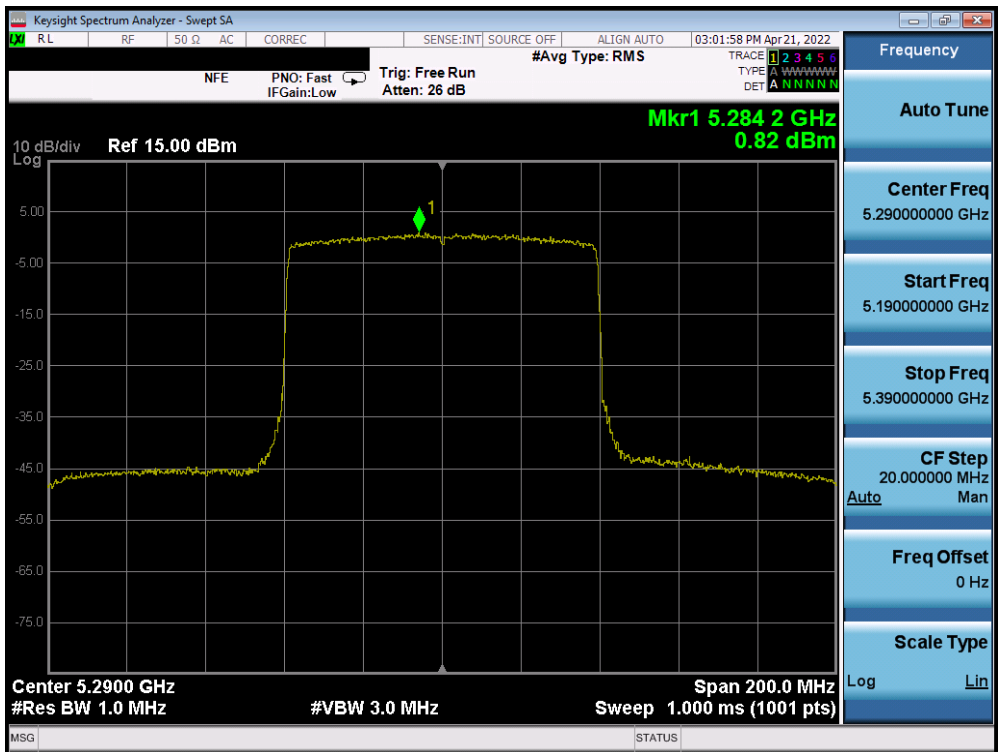


Plot 7-170. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 62)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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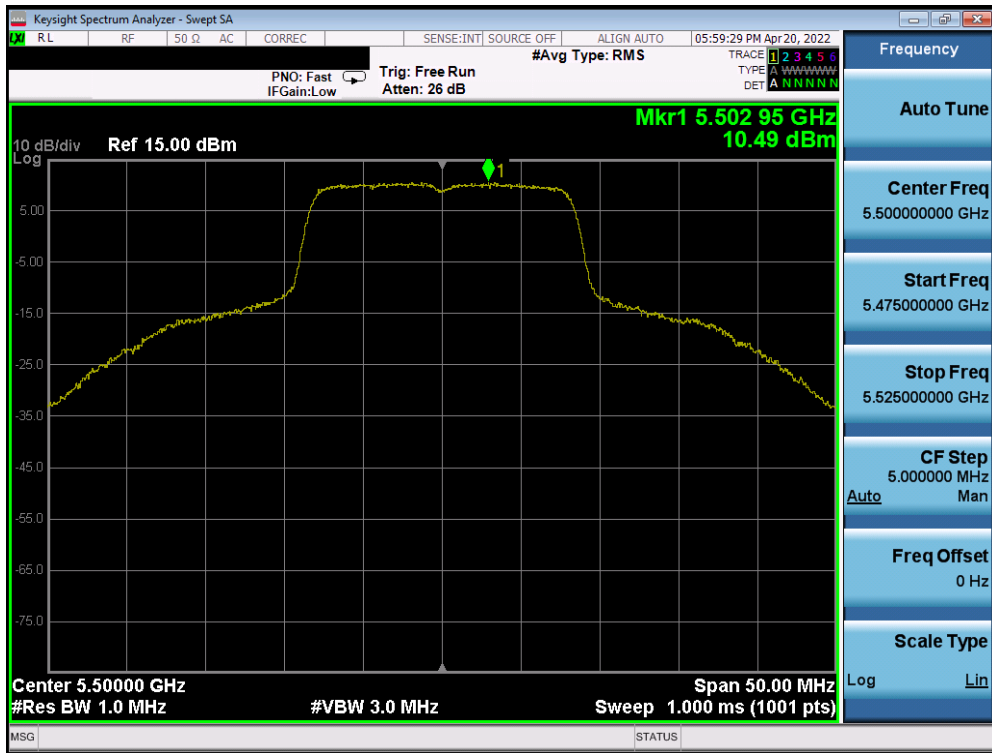


Plot 7-171. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

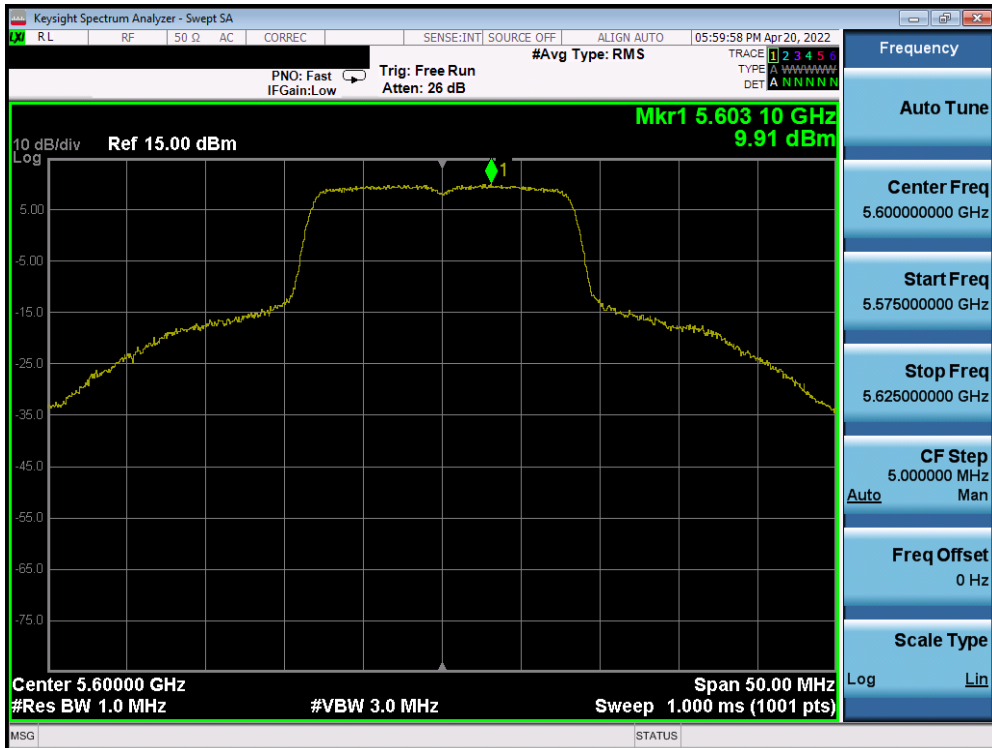


Plot 7-172. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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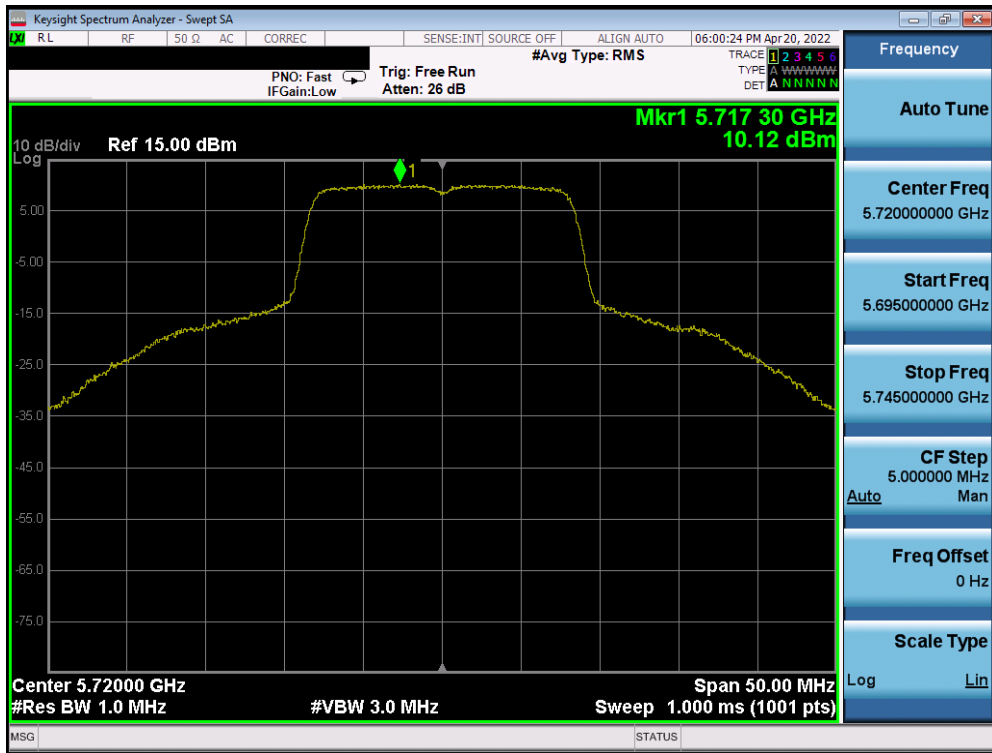


Plot 7-173. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) – Ch. 100)

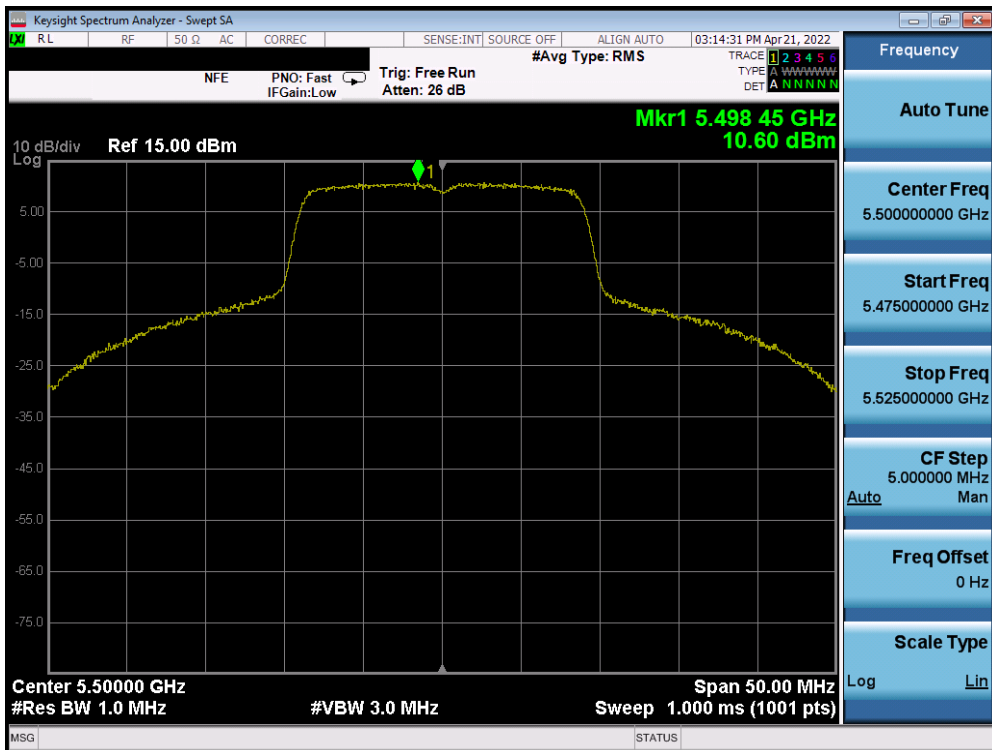


Plot 7-174. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) – Ch. 116)

FCC ID: C3K1997	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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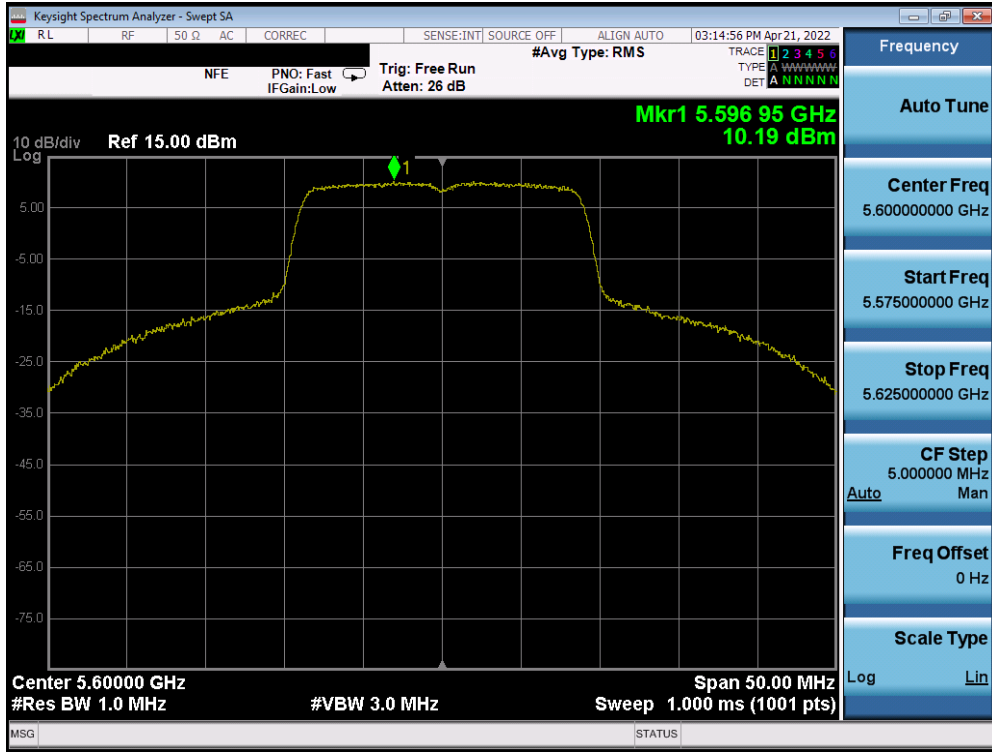
Plot 7-175. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) – Ch. 140)



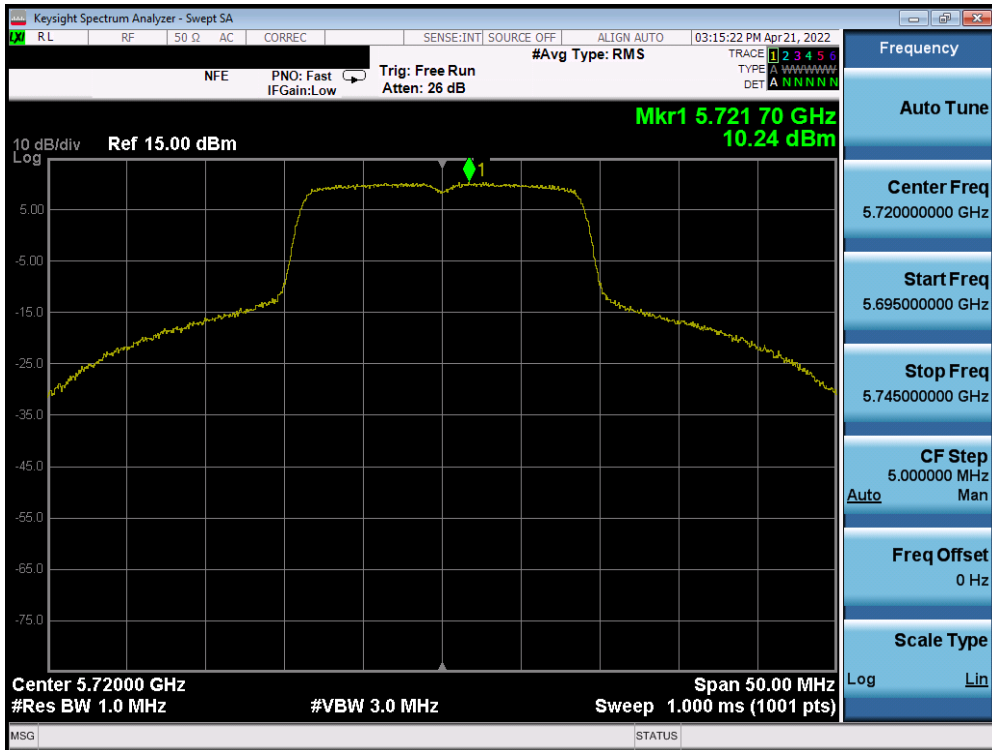
Plot 7-176. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-177. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)



Plot 7-178. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 140)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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