

Plot 7-106. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)

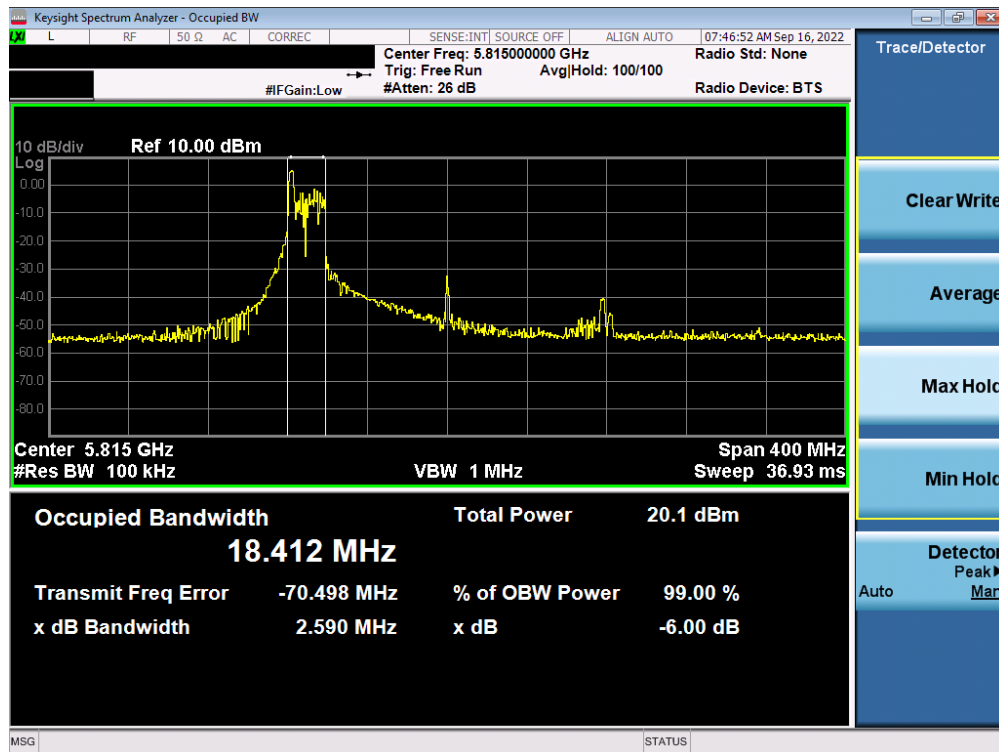


Plot 7-107. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 175)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 76 of 231

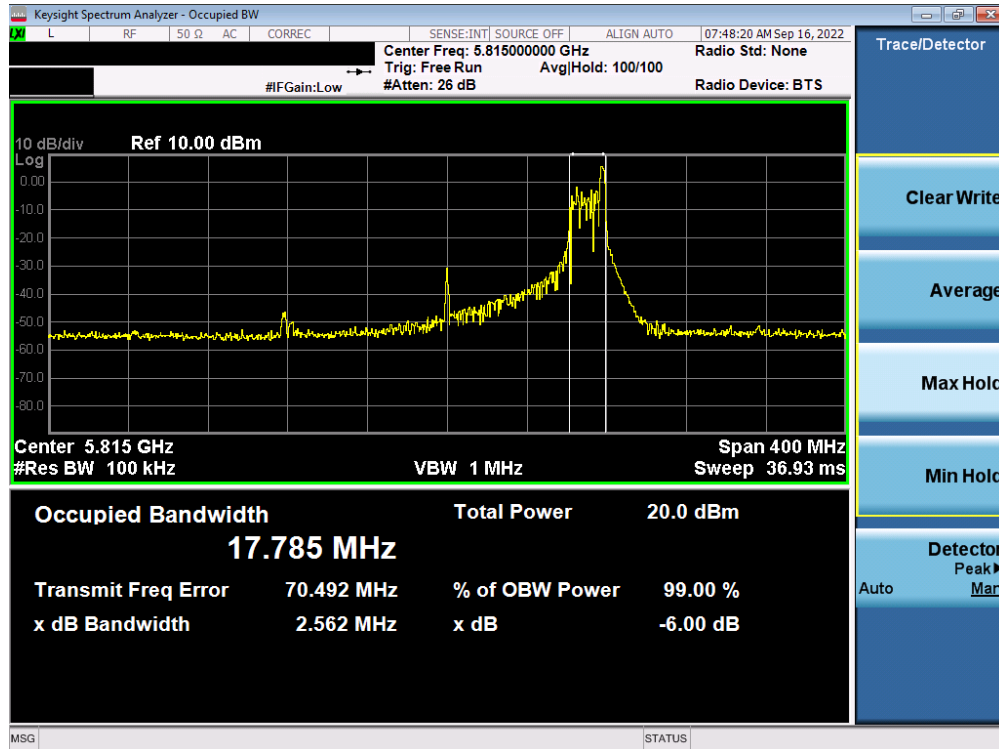


Plot 7-108. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-109. 6dB Bandwidth Plot MIMO ANT1 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 77 of 231



Plot 7-110. 6dB Bandwidth Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

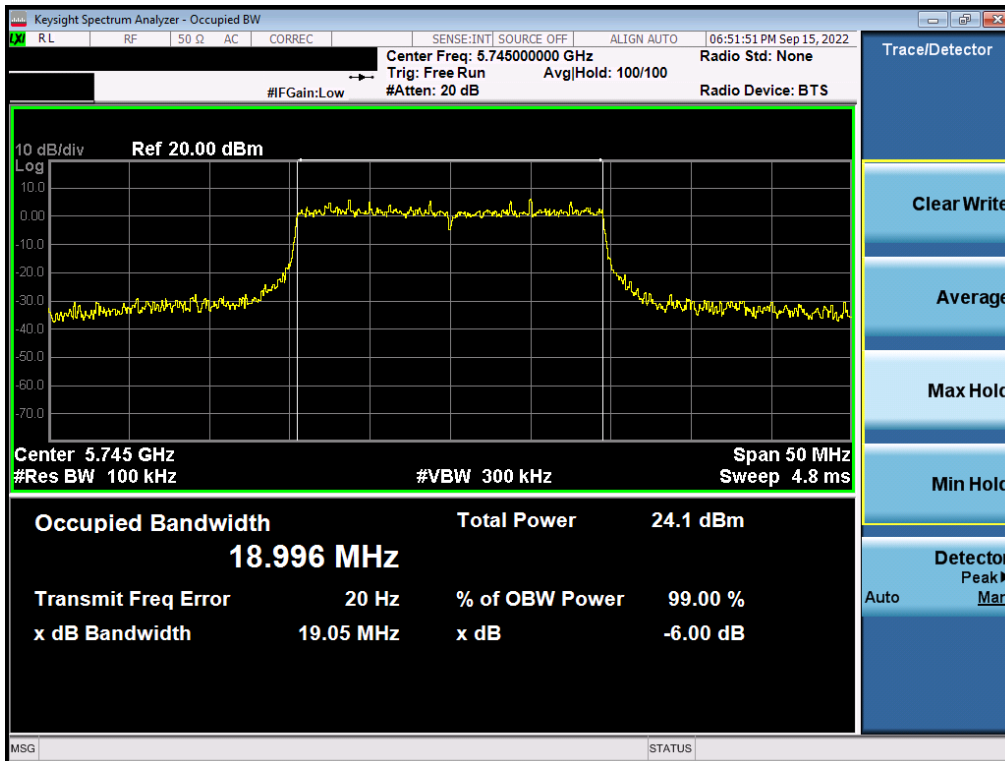
FCC ID: A3LSMS918JPN	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 78 of 231

### SISO Antenna-1 6 dB Bandwidth Measurements (Full Tones)

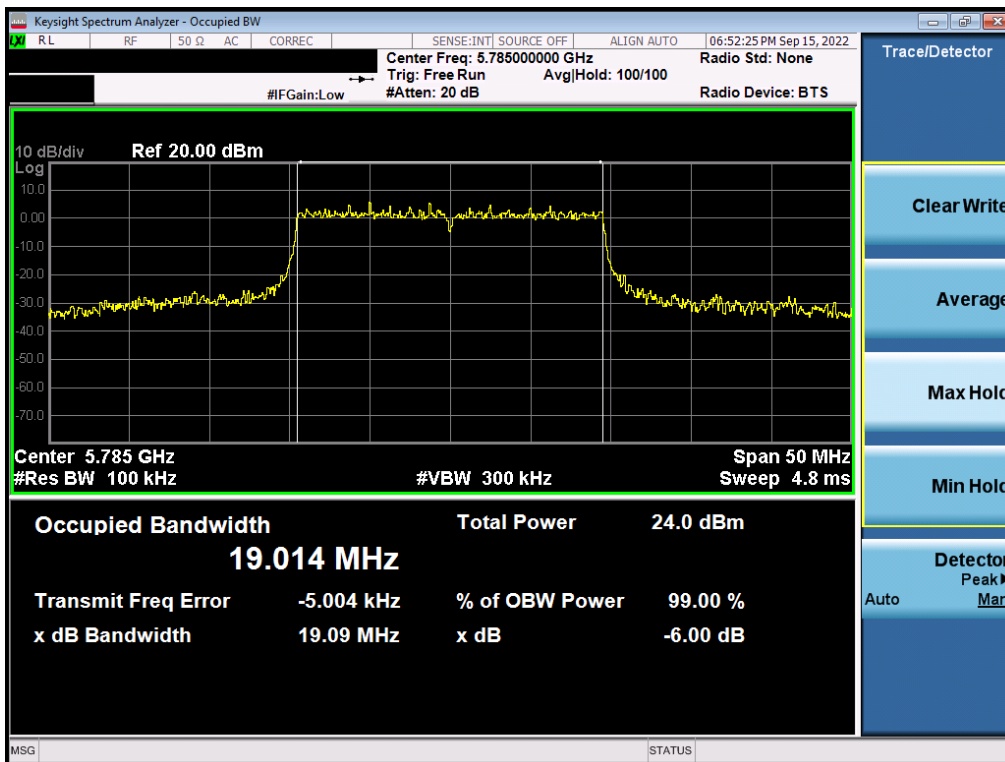
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
<b>Band 3</b>	5745	149	ax (20MHz)	242T	MCS0	19.05
	5785	157	ax (20MHz)	242T	MCS0	19.09
	5825	165	ax (20MHz)	242T	MCS0	19.05
	5755	151	ax (40MHz)	484T	MCS0	38.31
	5795	159	ax (40MHz)	484T	MCS0	38.24
	5775	155	ax (80MHz)	996T	MCS0	76.74

**Table 7-8. Conducted Bandwidth Measurements SISO ANT1 (Full Tones)**

<b>FCC ID:</b> A3LSMS918JPN	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2212080137-12-R1.A3L	<b>Test Dates:</b> 9/08 - 11/08/2022	<b>EUT Type:</b> Portable Handset	Page 79 of 231

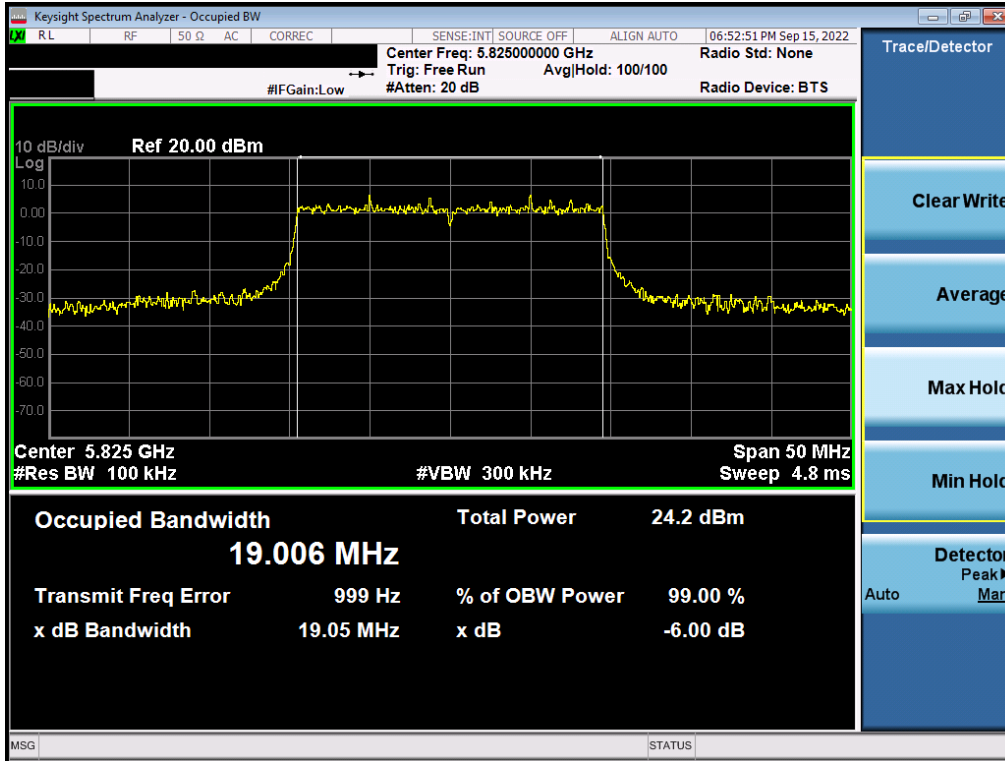


Plot 7-111. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

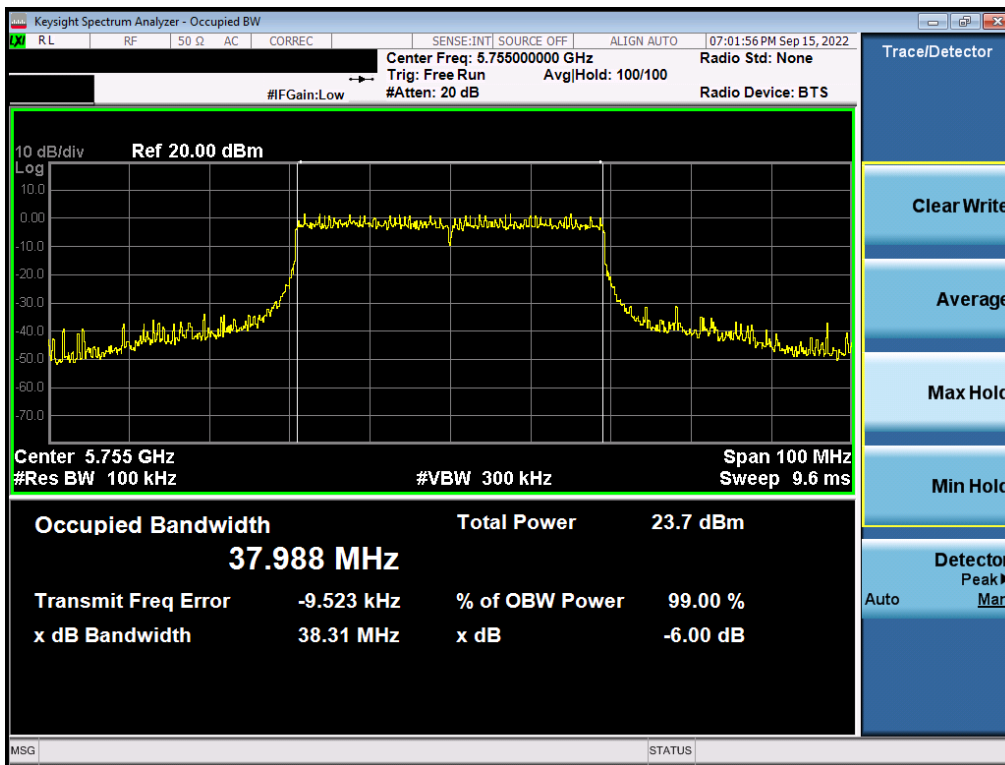


Plot 7-112. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 80 of 231

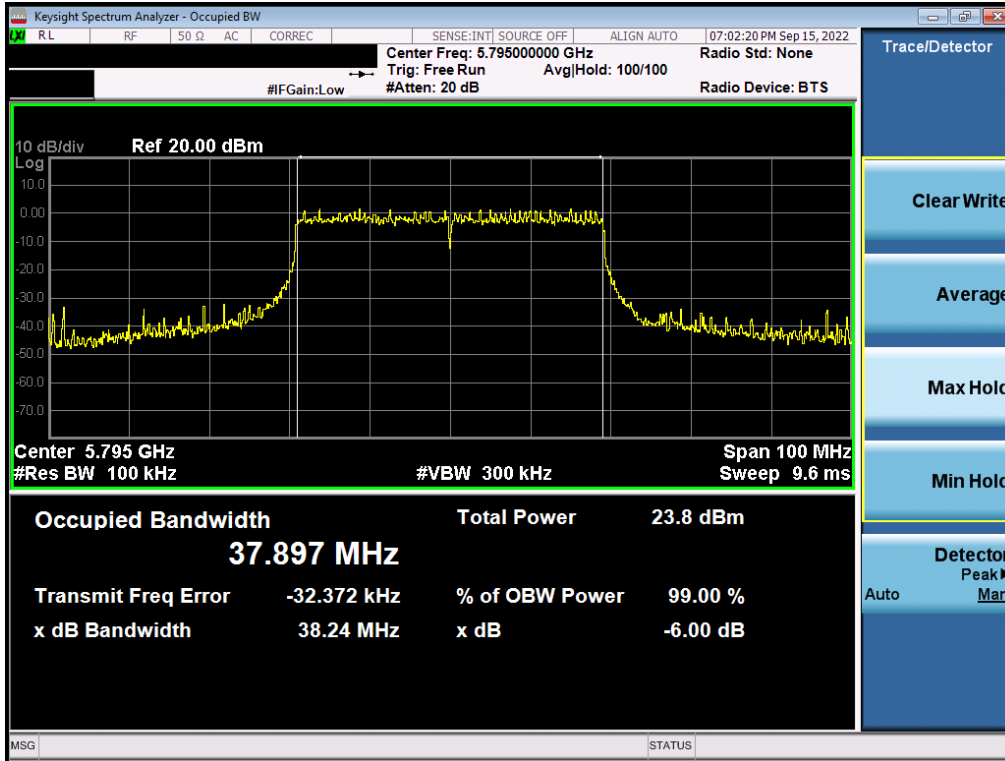


Plot 7-113. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

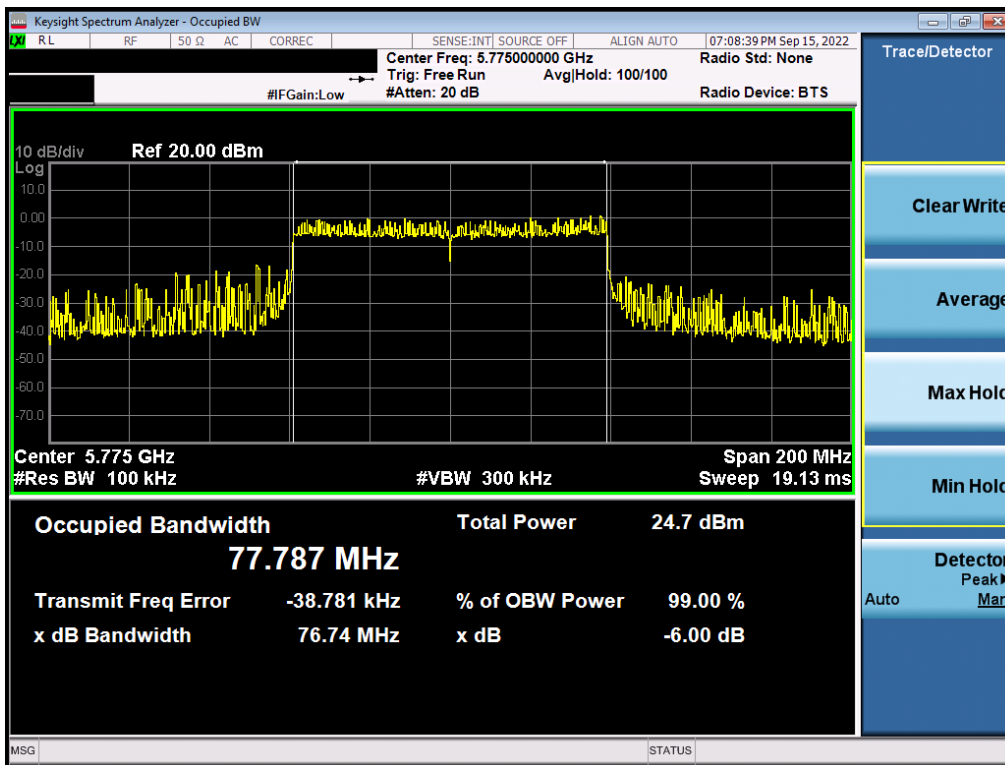


Plot 7-114. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 81 of 231



Plot 7-115. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)

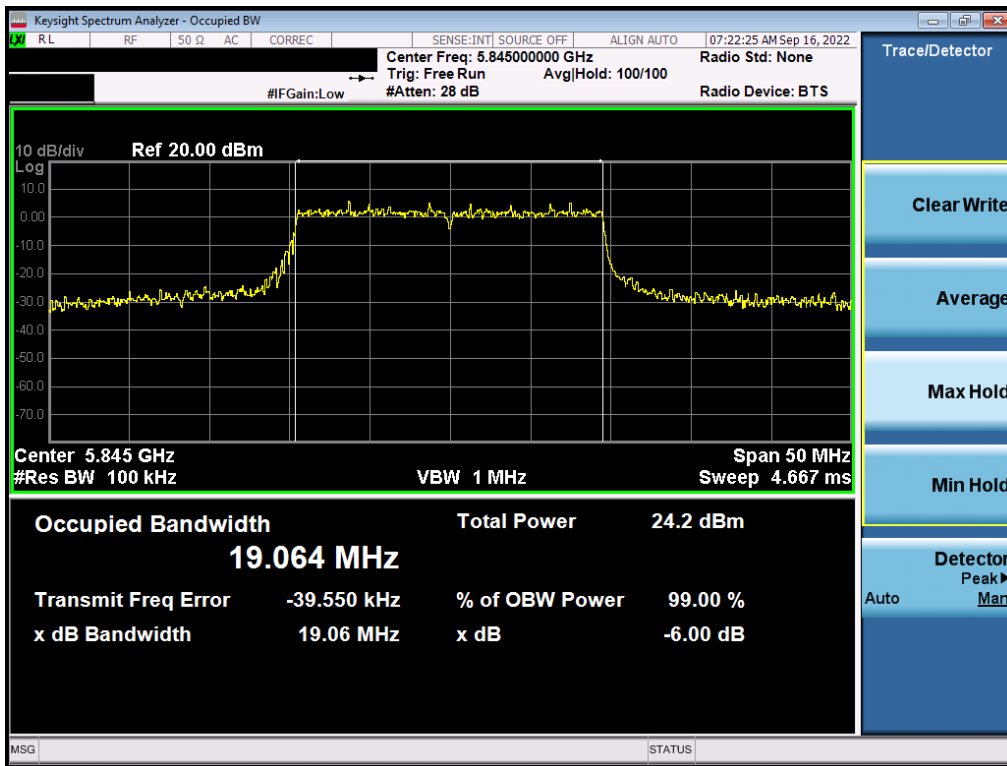


Plot 7-116. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 82 of 231

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	ax (20MHz)	242T	MCS0	19.06
Band 4	5865	173	ax (20MHz)	242T	MCS0	19.08
	5885	177	ax (20MHz)	242T	MCS0	19.09
Band 3/4	5835	167	ax (40MHz)	484T	MCS0	38.24
Band 4	5875	175	ax (40MHz)	484T	MCS0	38.17
Band 3/4	5855	171	ax (80MHz)	996T	MCS0	77.97
	5815	163	ax (160MHz)	996T	MCS0	158.70

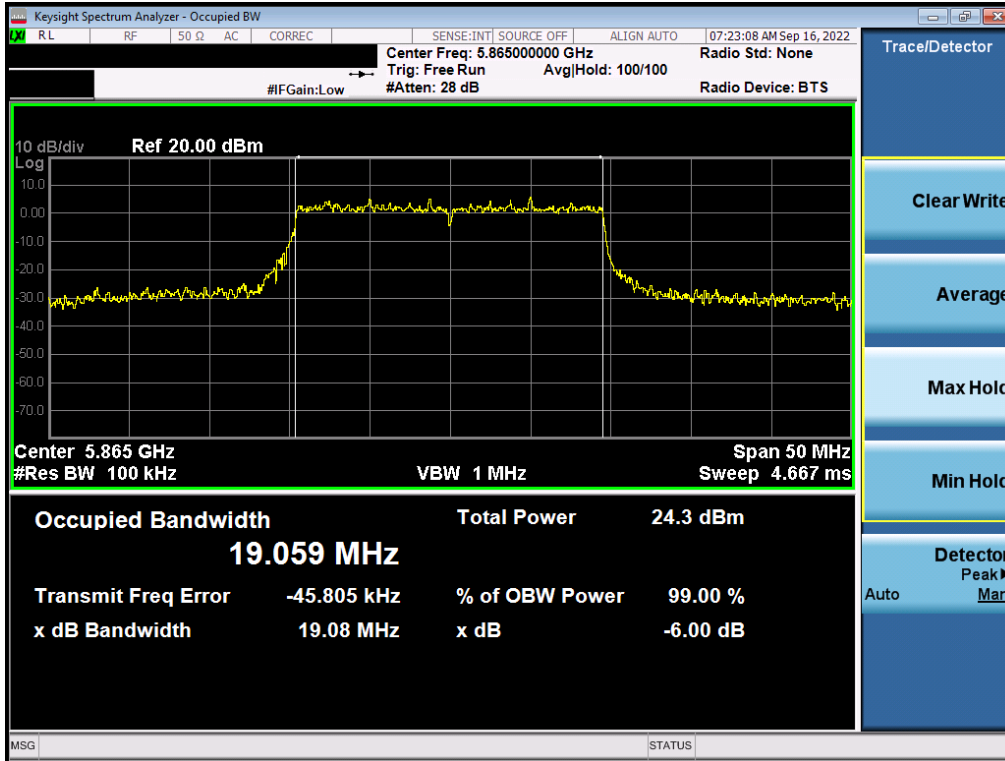
Table 7-9. Conducted Bandwidth Measurements MIMO ANT1 (Full Tones)



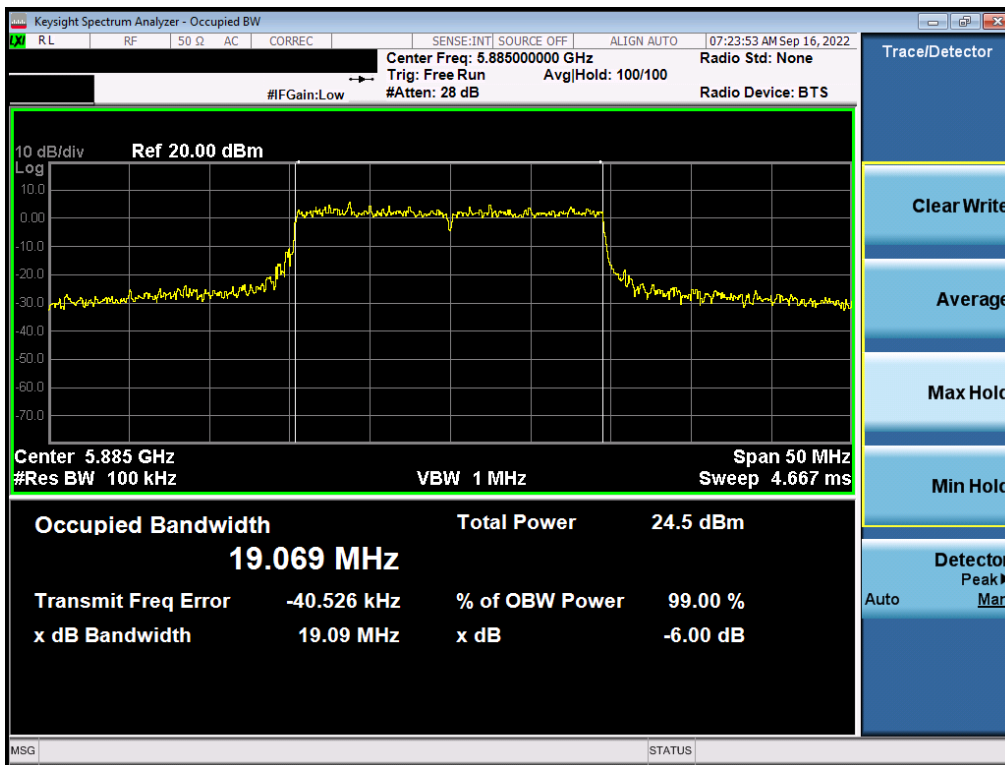
Plot 7-117. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3/4) – Ch. 169)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 83 of 231



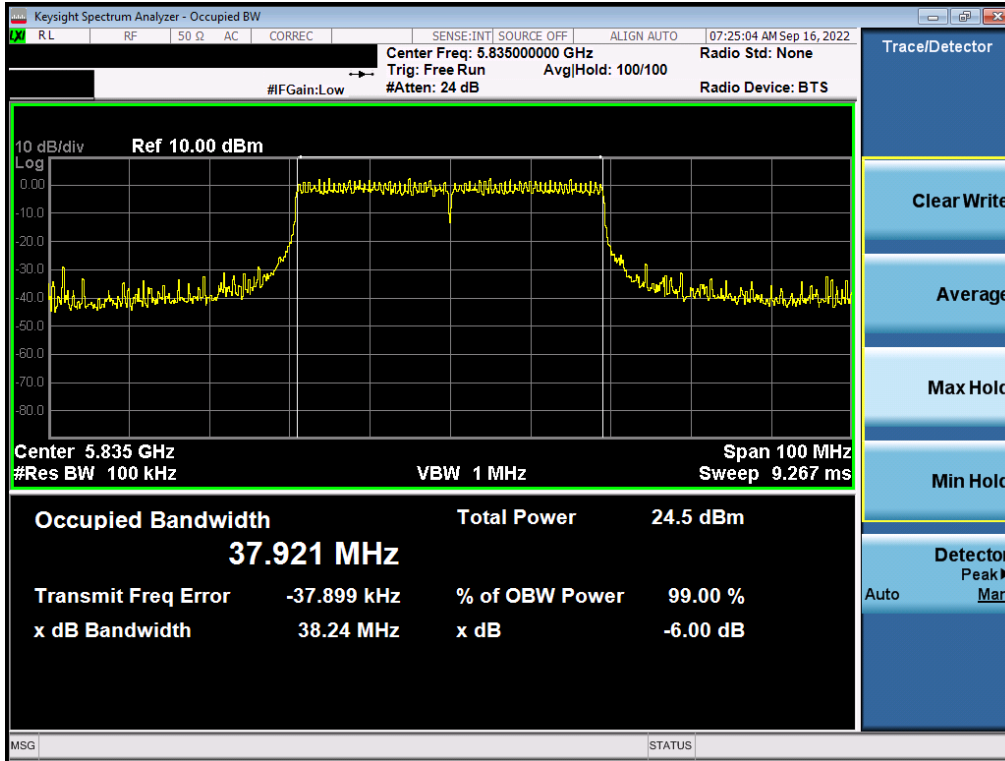


Plot 7-118. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 173)

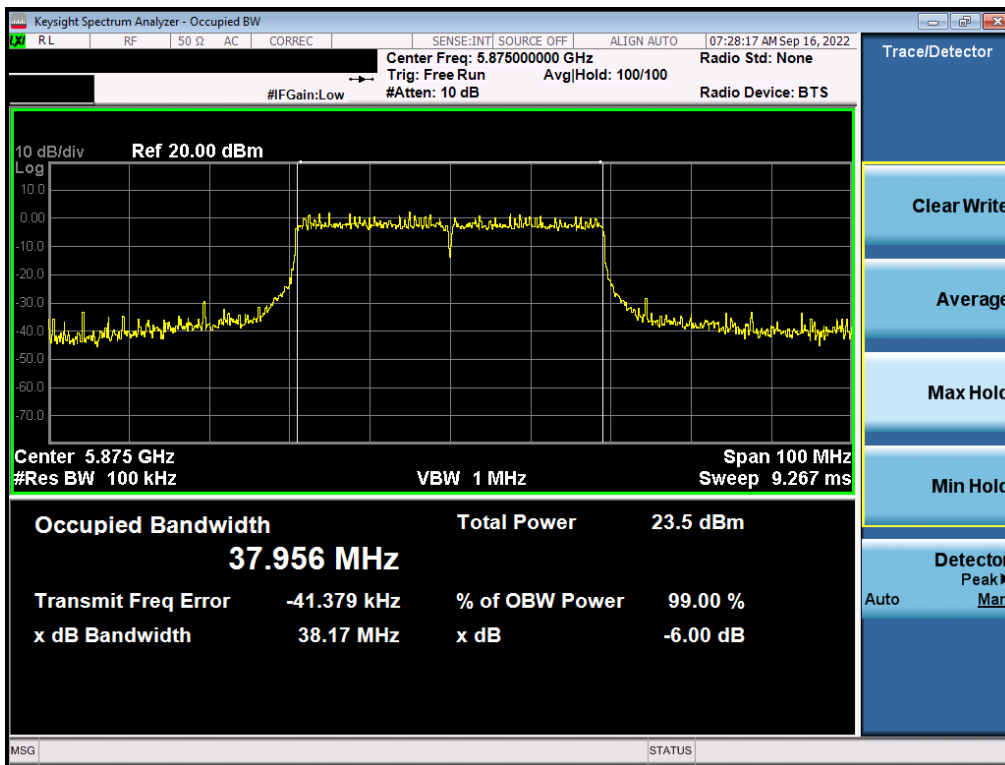


Plot 7-119. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 177)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 84 of 231

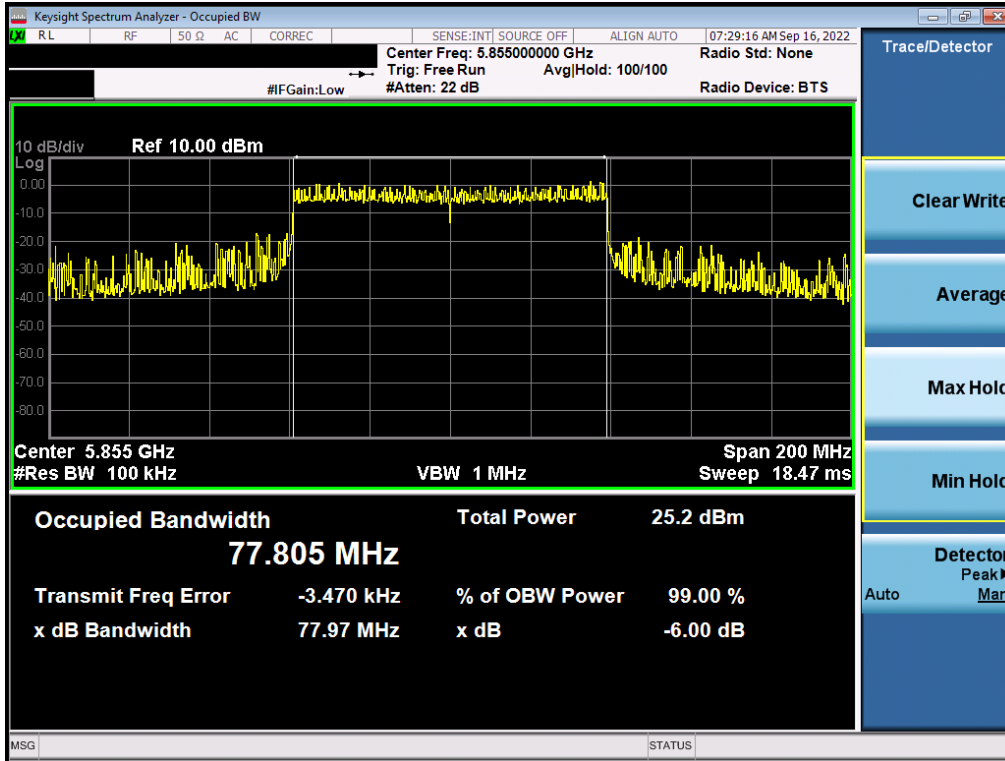


Plot 7-120. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3/4) – Ch. 167)

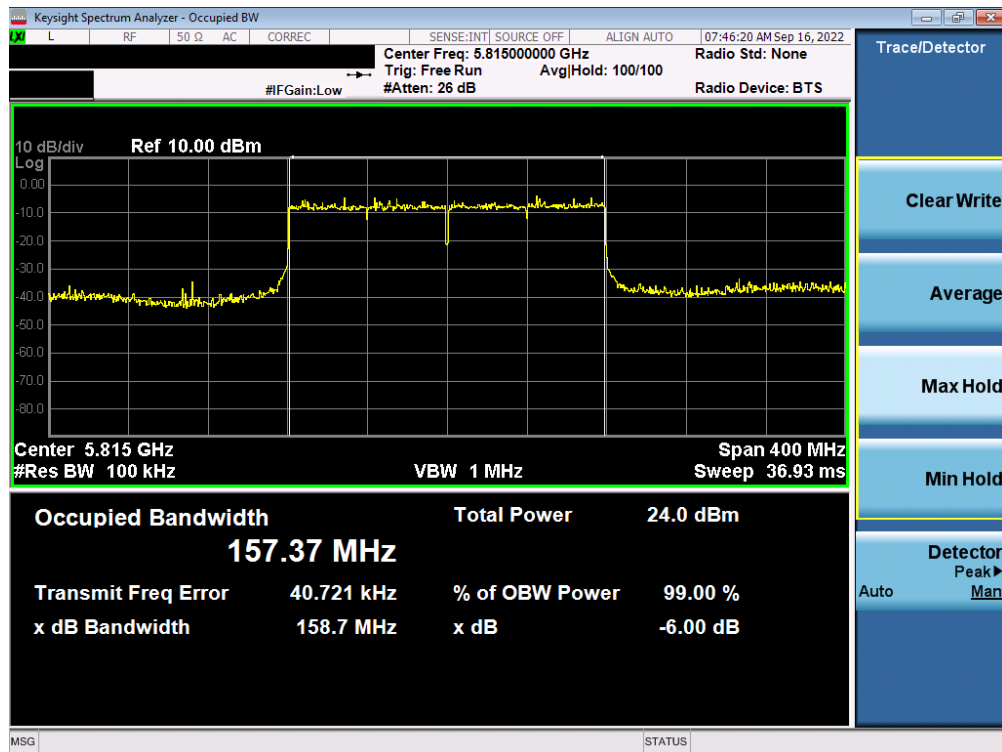


Plot 7-121. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 4) – Ch. 175)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 85 of 231



Plot 7-122. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11 ax – 996 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-123. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11 ax – 996\*2 Tones (UNII Band 3/4) – Ch. 163)

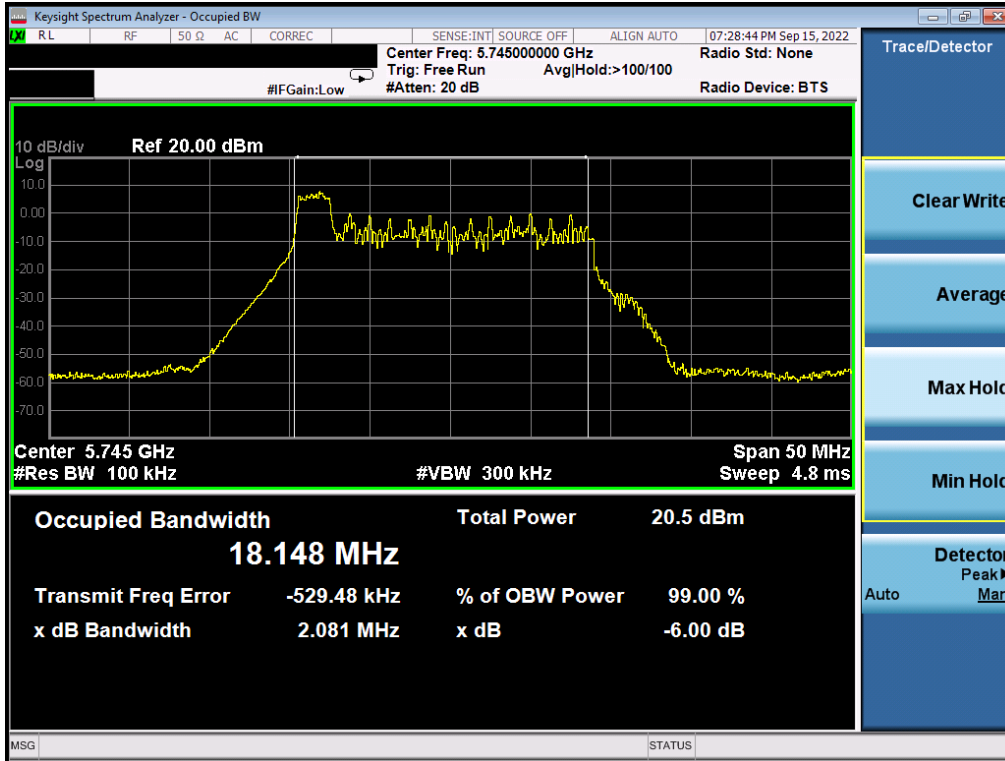
FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 86 of 231

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

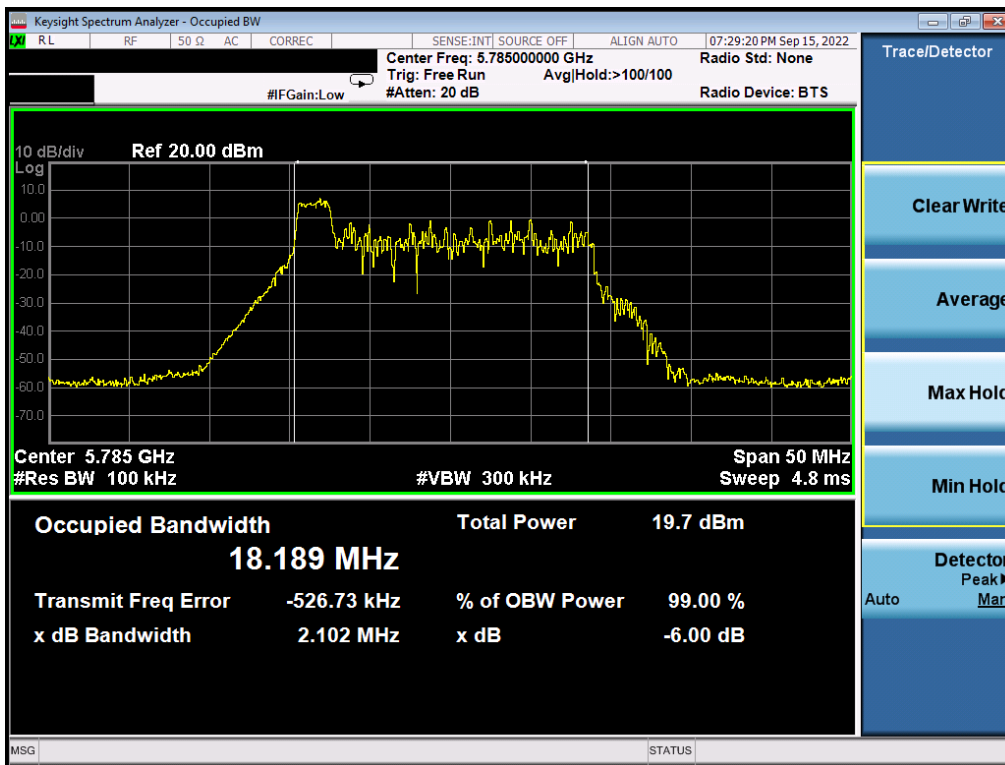
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
<b>Band 3</b>	5745	149	ax (20MHz)	26T	MCS0	2.08
	5785	157	ax (20MHz)	26T	MCS0	2.10
	5825	165	ax (20MHz)	26T	MCS0	2.10
	5755	151	ax (40MHz)	26T	MCS0	2.20
	5795	159	ax (40MHz)	26T	MCS0	2.17
	5775	155	ax (80MHz)	26T	MCS0	2.27

**Table 7-10. Conducted Bandwidth Measurements MIMO ANT2 (26 Tones)**

<b>FCC ID:</b> A3LSMS918JPN	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2212080137-12-R1.A3L	<b>Test Dates:</b> 9/08 - 11/08/2022	<b>EUT Type:</b> Portable Handset	Page 87 of 231

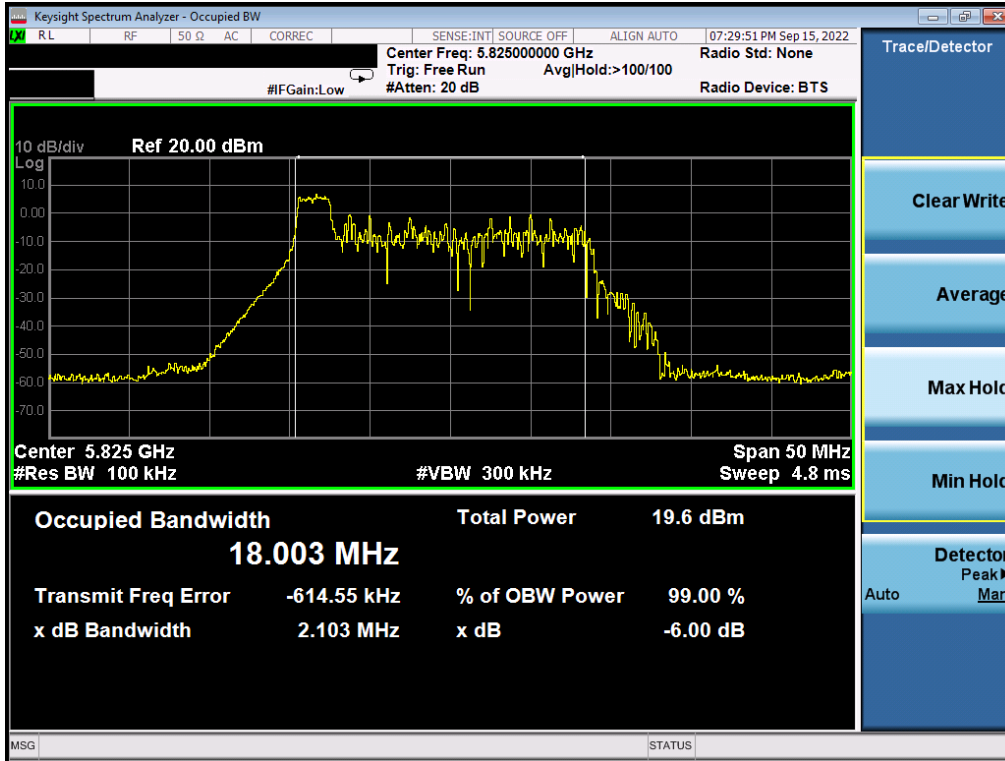


Plot 7-124. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)



Plot 7-125. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 88 of 231



Plot 7-126. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)



Plot 7-127. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 89 of 231



Plot 7-128. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

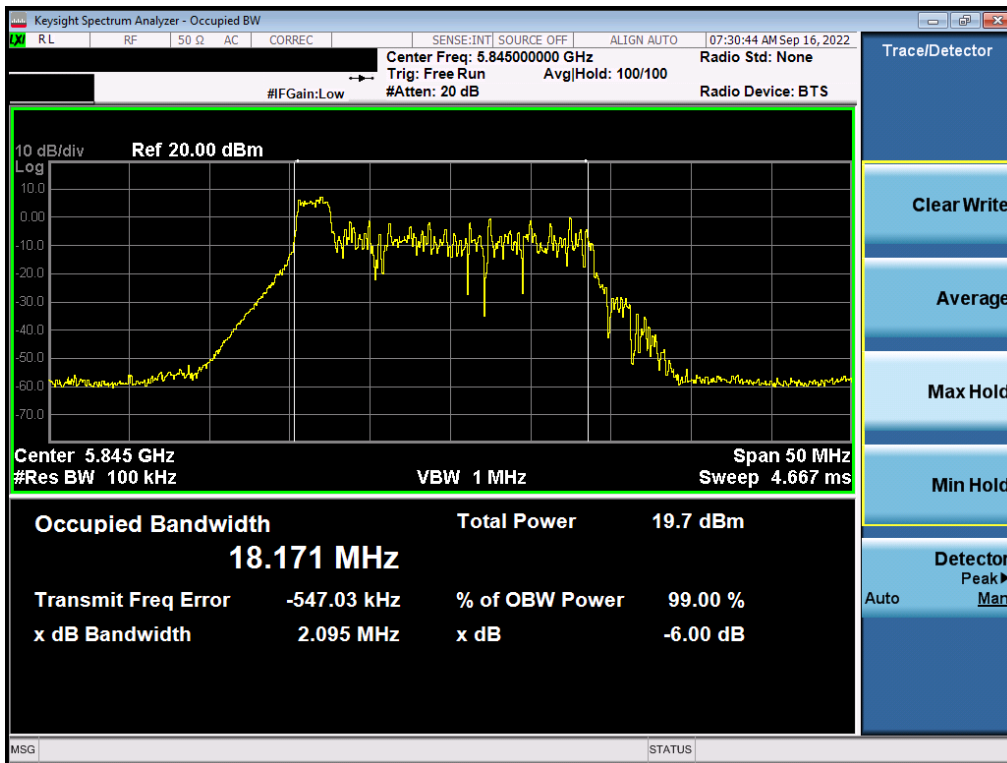


Plot 7-129. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 90 of 231

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	ax (20MHz)	26T	MCS0	2.10
Band 4	5865	173	ax (20MHz)	26T	MCS0	2.12
	5885	177	ax (20MHz)	26T	MCS0	2.18
Band 3/4	5835	167	ax (40MHz)	26T	MCS0	2.21
Band 4	5875	175	ax (40MHz)	26T	MCS0	2.17
Band 3/4	5855	171	ax (80MHz)	26T	MCS0	2.25
	5815	163	ax (160MHz L)	26T	MCS0	2.54
	5815	163	ax (160MHz U)	26T	MCS0	2.48

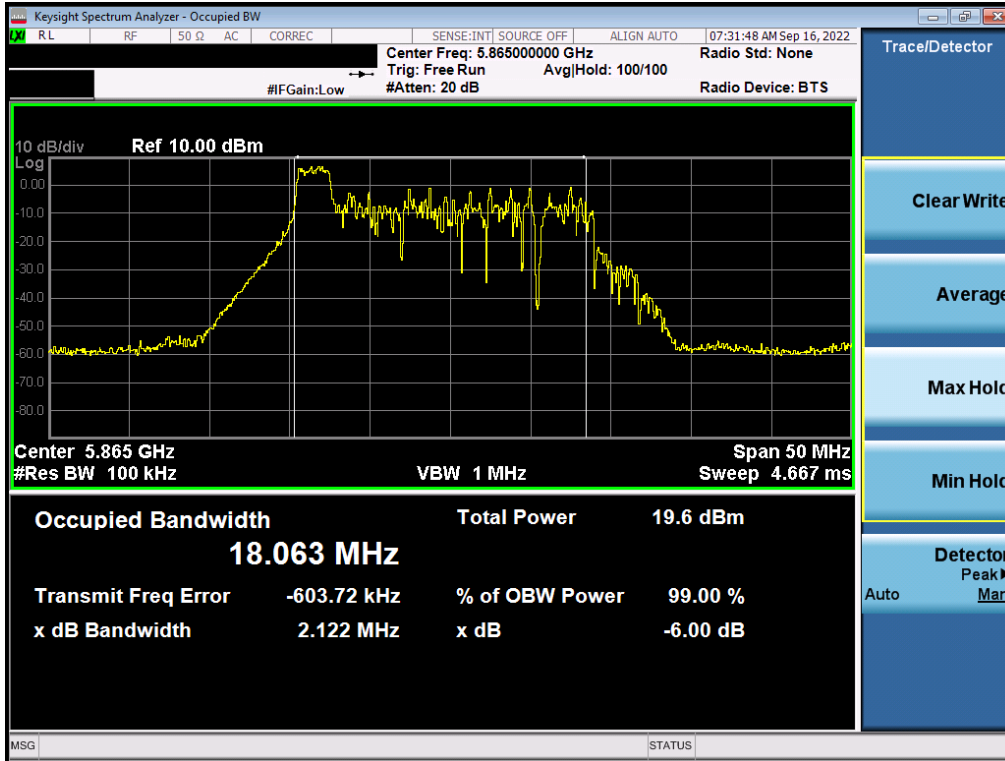
Table 7-11. Conducted Bandwidth Measurements MIMO ANT2 (26 Tones)



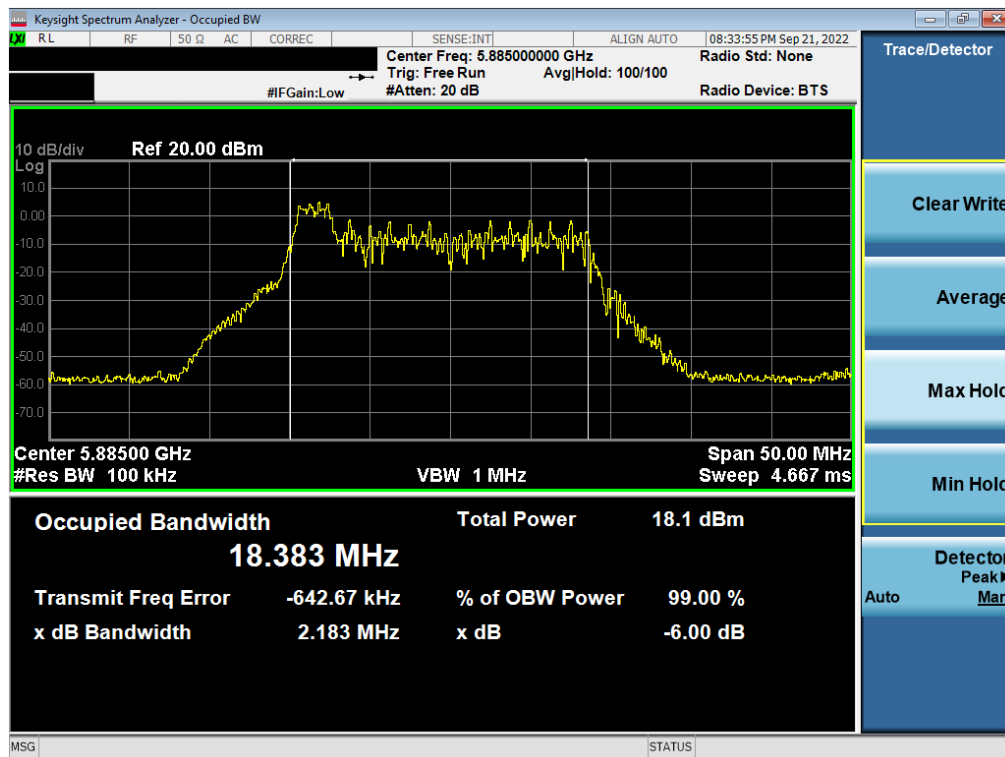
Plot 7-130. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 169)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 91 of 231





Plot 7-131. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 173)



Plot 7-132. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 177)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 92 of 231



Plot 7-133. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)

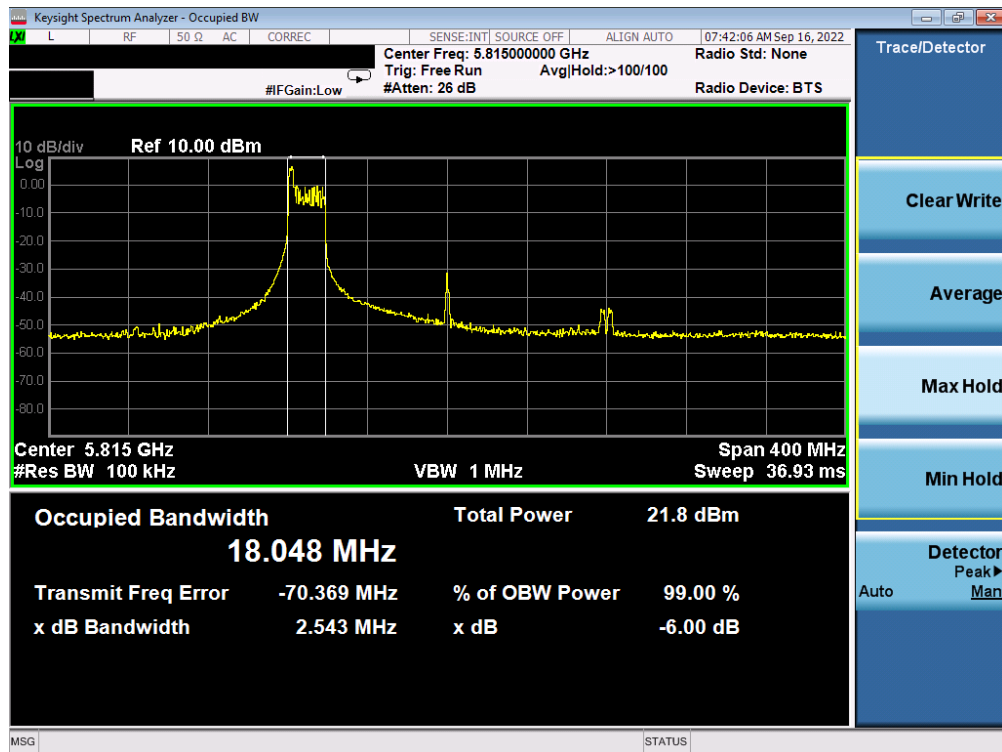


Plot 7-134. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 175)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 93 of 231

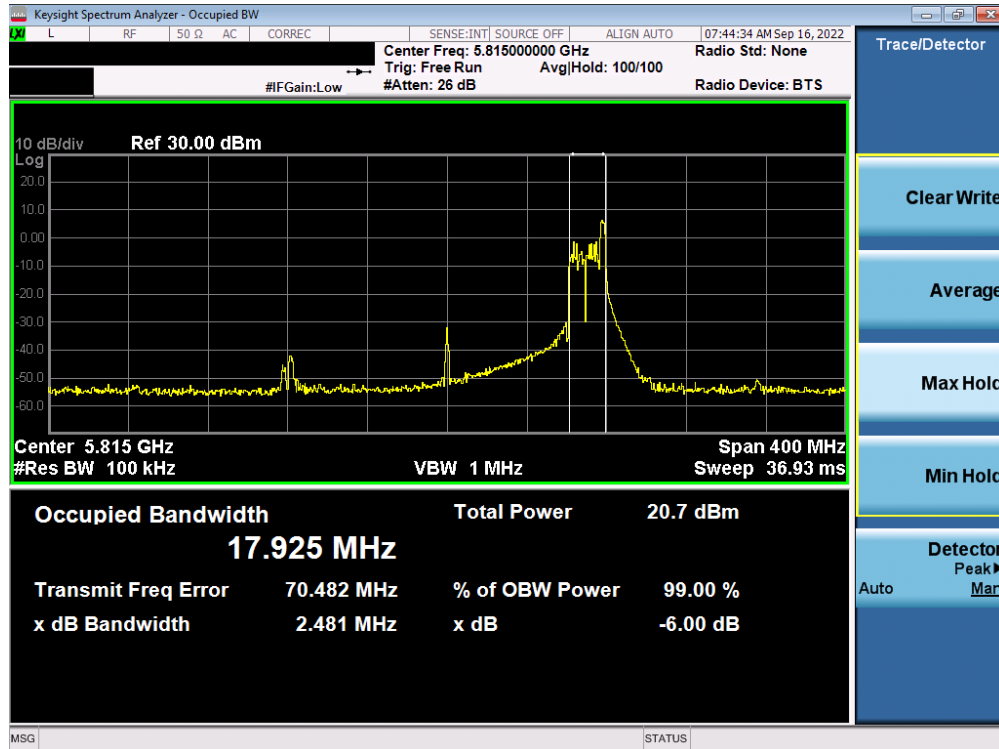


Plot 7-135. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-136. 6dB Bandwidth Plot MIMO ANT2 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 94 of 231



Plot 7-137. 6dB Bandwidth Plot MIMO ANT2 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMS918JPN	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 95 of 231

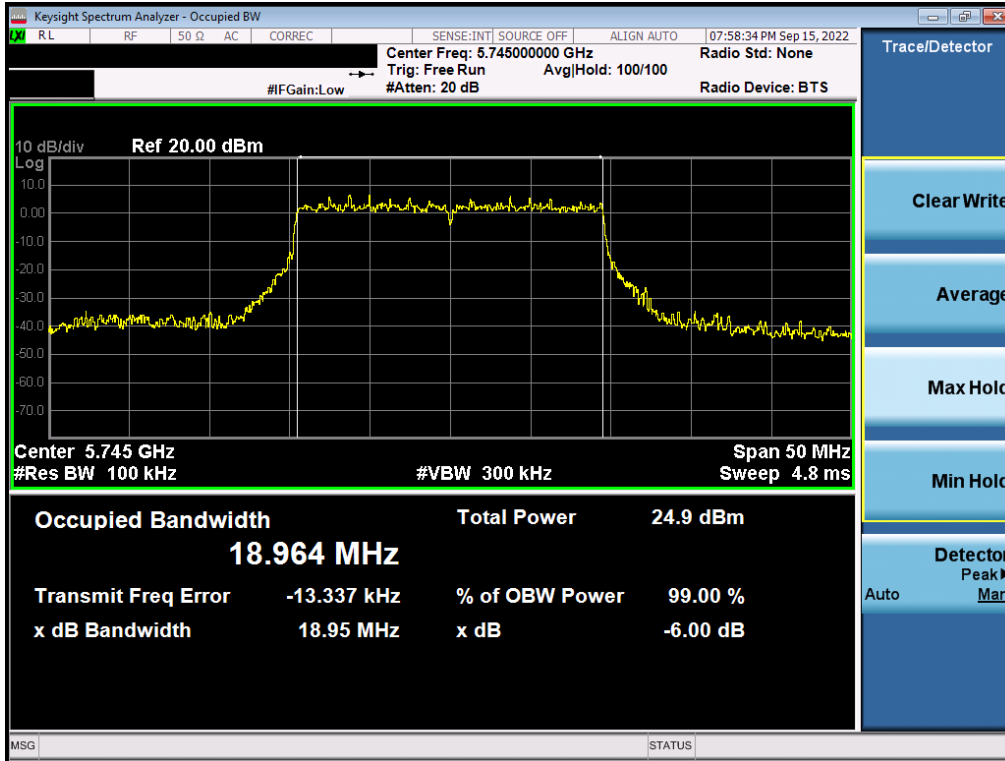


### MIMO Antenna-2 6dB Bandwidth Measurements (Full Tones)

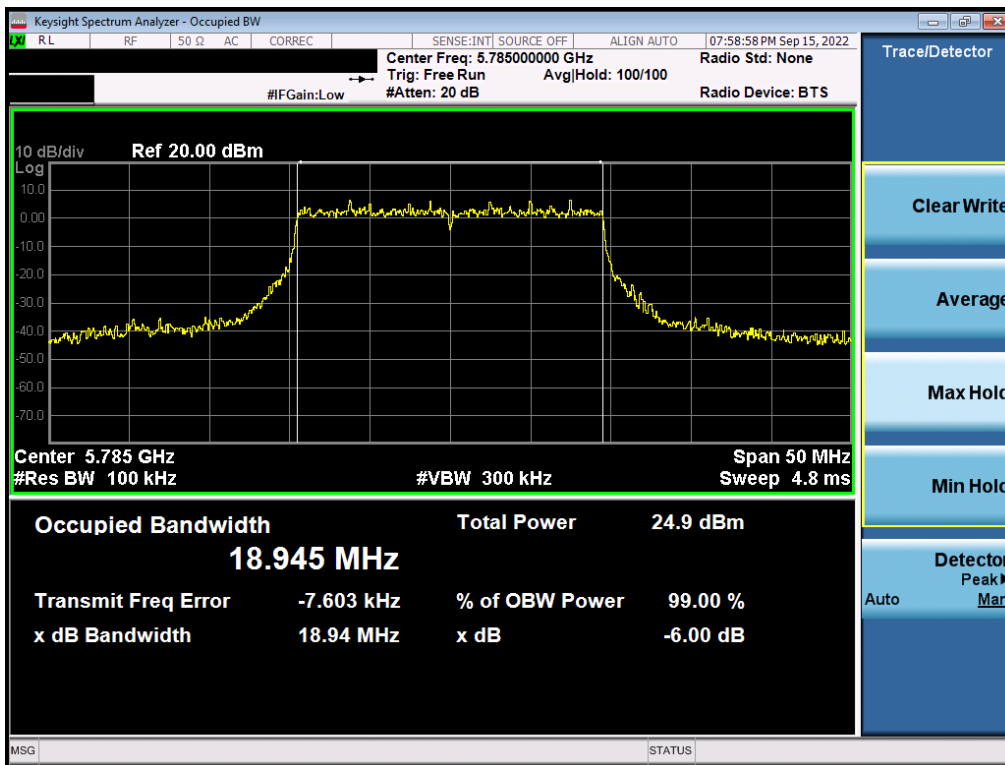
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
<b>Band 3</b>	5745	149	ax (20MHz)	242T	MCS0	18.95
	5785	157	ax (20MHz)	242T	MCS0	18.94
	5825	165	ax (20MHz)	242T	MCS0	19.01
	5755	151	ax (40MHz)	484T	MCS0	38.14
	5795	159	ax (40MHz)	484T	MCS0	38.12
	5775	155	ax (80MHz)	996T	MCS0	78.01

**Table 7-12. Conducted Bandwidth Measurements MIMO ANT2 (Full Tones)**

<b>FCC ID:</b> A3LSMS918JPN	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2212080137-12-R1.A3L	<b>Test Dates:</b> 9/08 - 11/08/2022	<b>EUT Type:</b> Portable Handset	Page 96 of 231

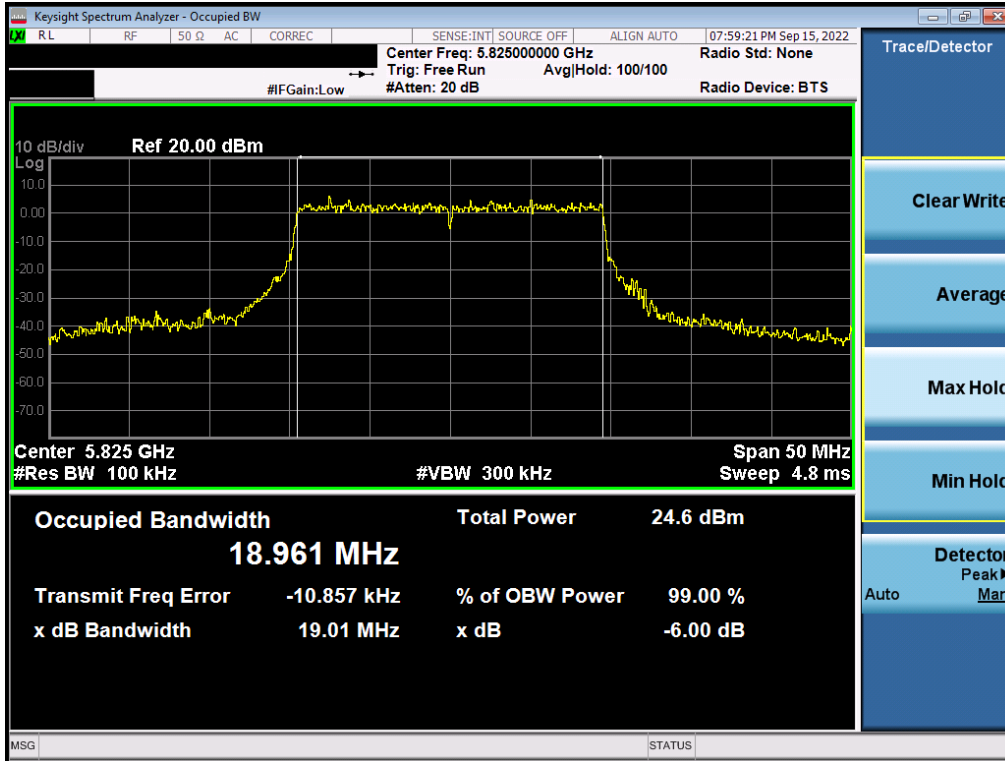


Plot 7-138. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

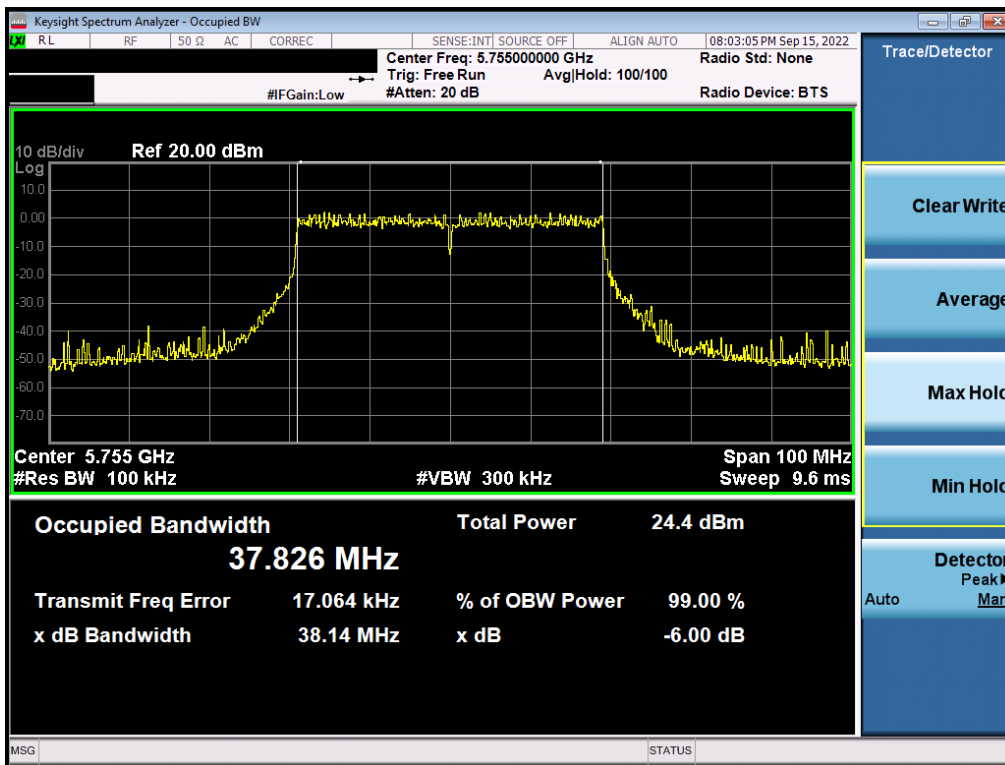


Plot 7-139. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 97 of 231

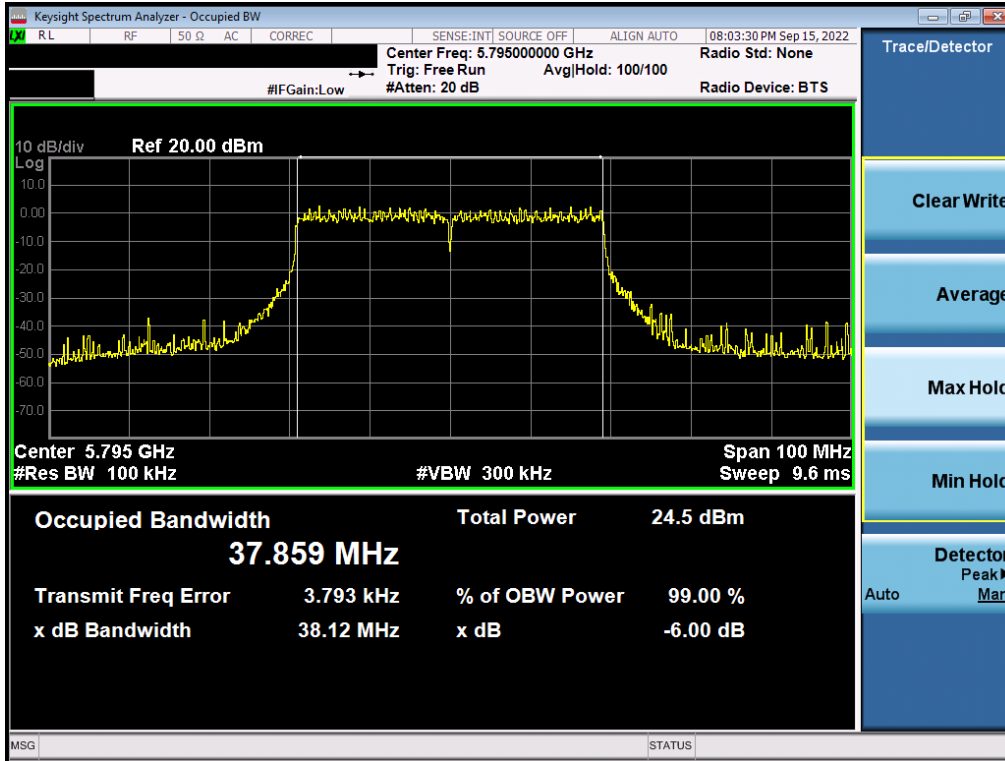


Plot 7-140. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

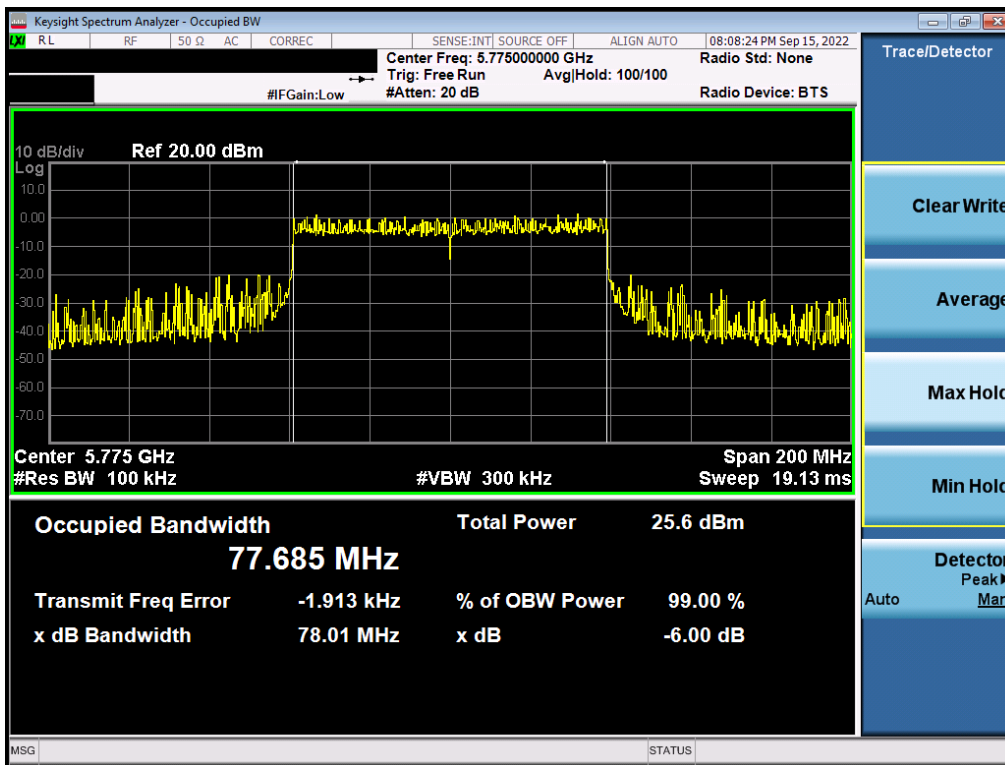


Plot 7-141. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 98 of 231



Plot 7-142. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



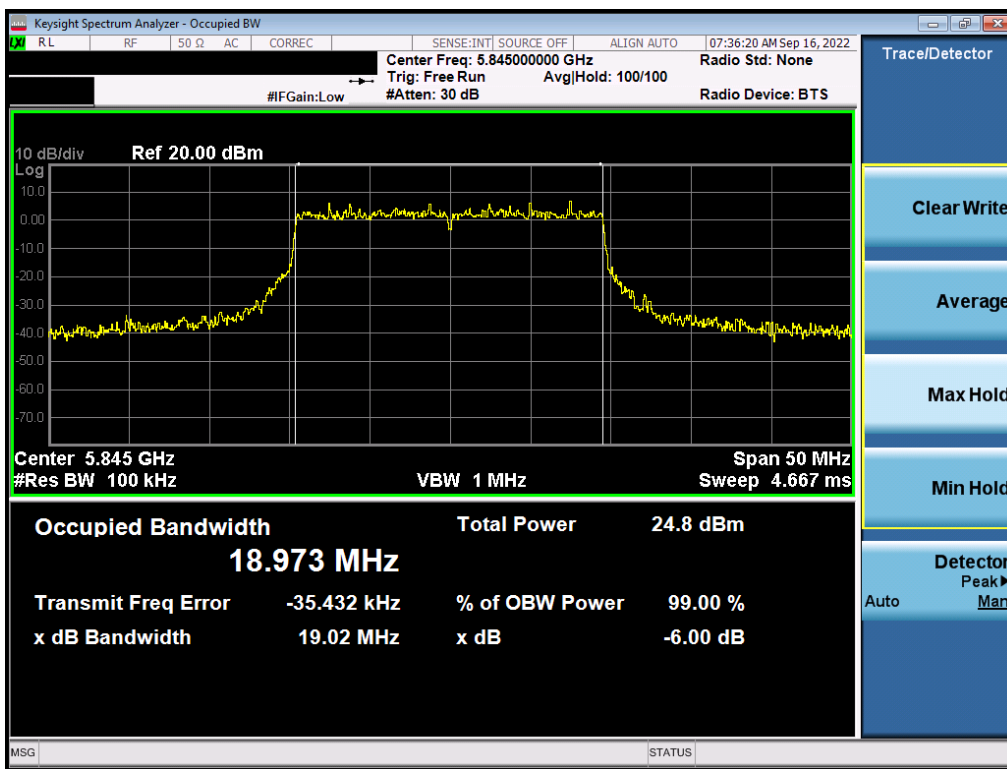
Plot 7-143. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 99 of 231



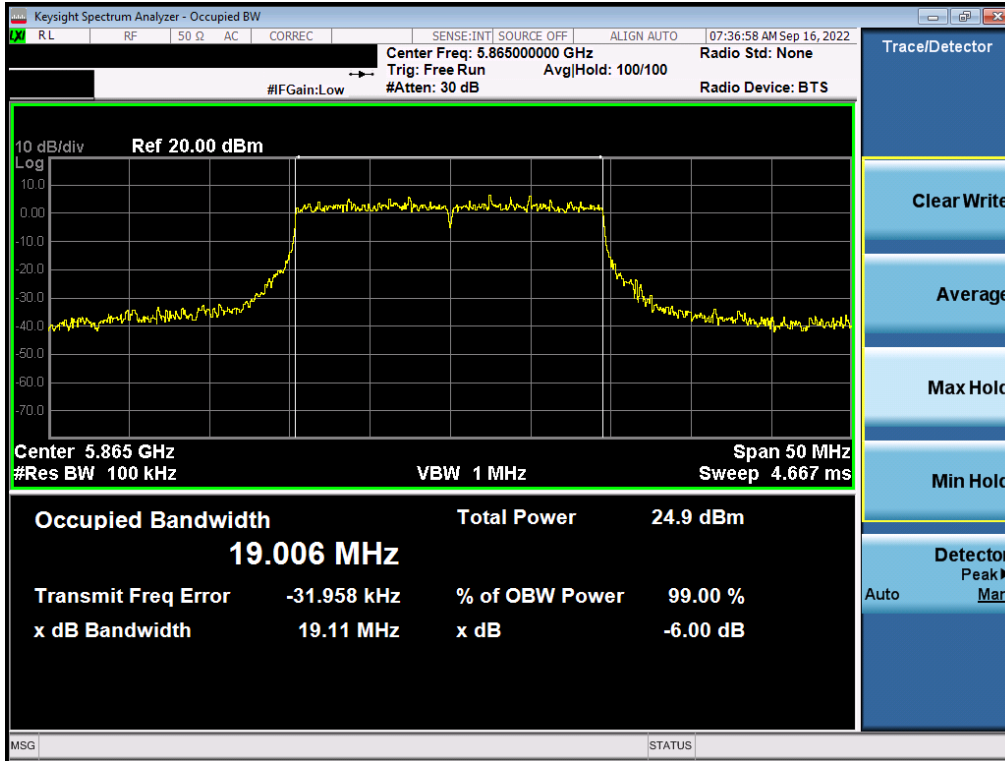
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	ax (20MHz)	242T	MCS0	19.02
Band 4	5865	173	ax (20MHz)	242T	MCS0	19.11
	5885	177	ax (20MHz)	242T	MCS0	19.08
Band 3/4	5835	167	ax (40MHz)	484T	MCS0	38.17
Band 4	5875	175	ax (40MHz)	484T	MCS0	38.23
Band 3/4	5855	171	ax (80MHz)	996T	MCS0	77.56
	5815	163	ax (160MHz)	996T	MCS0	158.50

Table 7-13. Conducted Bandwidth Measurements MIMO ANT2 (Full Tones)

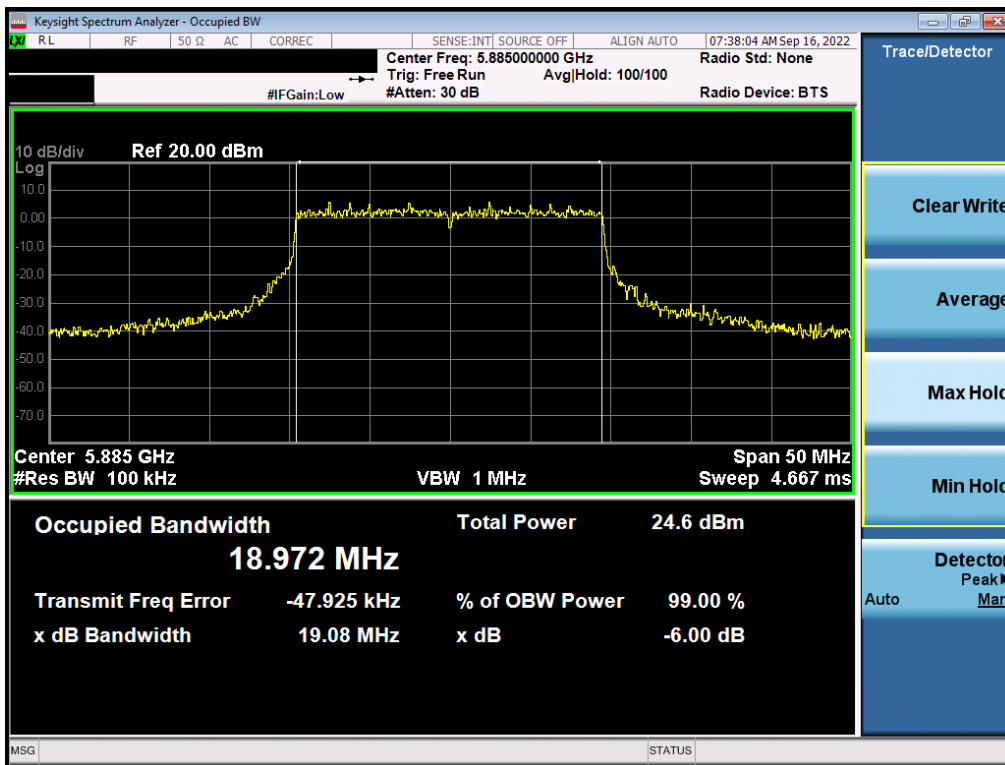


Plot 7-144. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11 ax – 242 Tones (UNII Band 3/4) – Ch. 169)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 100 of 231

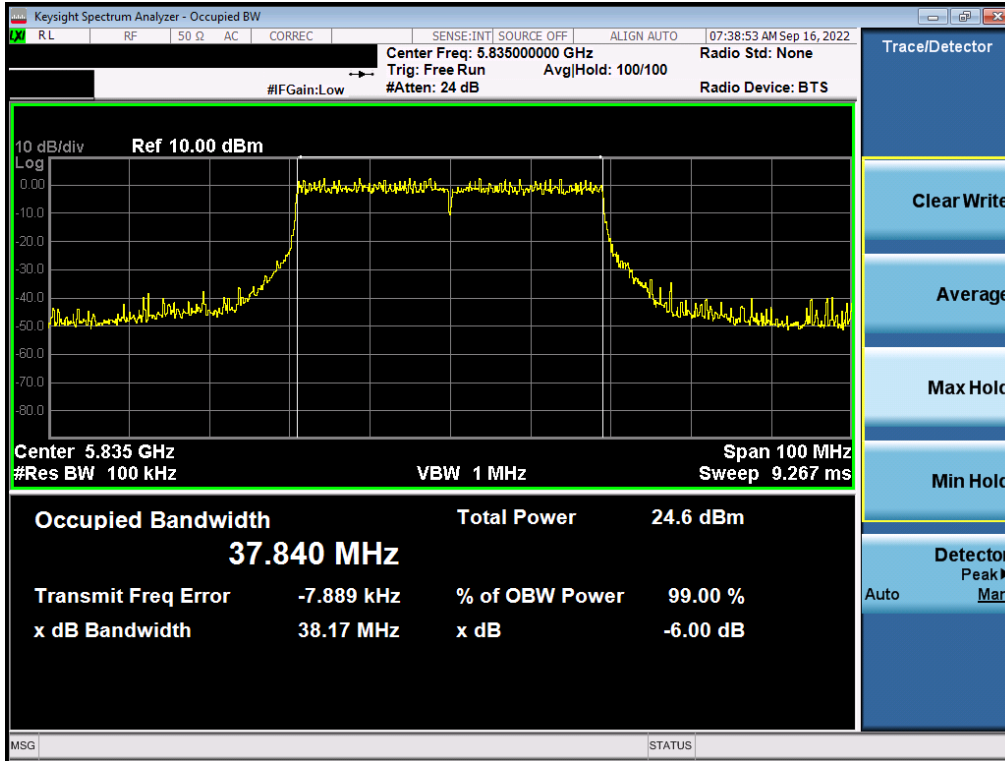


Plot 7-145. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 173)

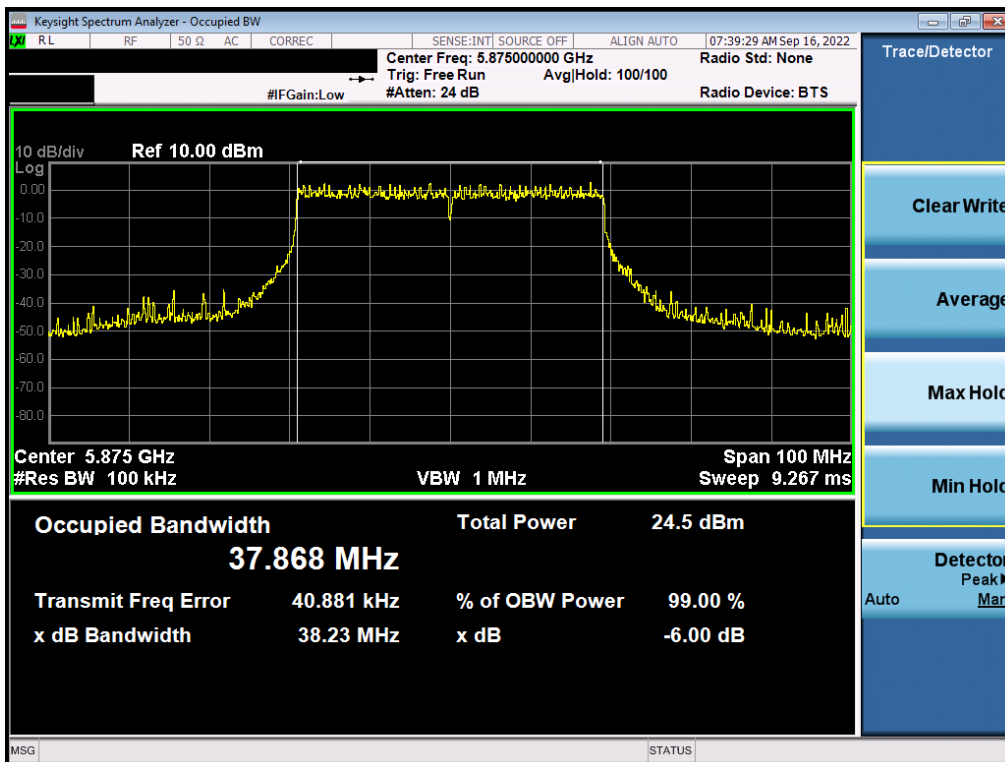


Plot 7-146. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 177)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 101 of 231

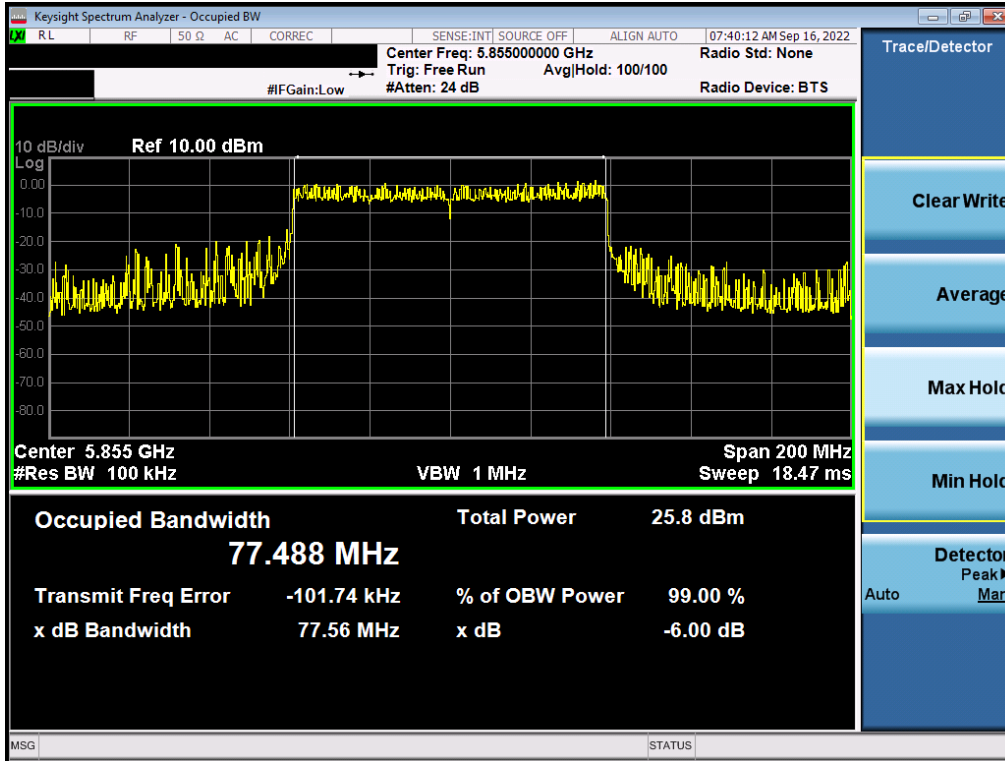


Plot 7-147. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3/4) – Ch. 167)

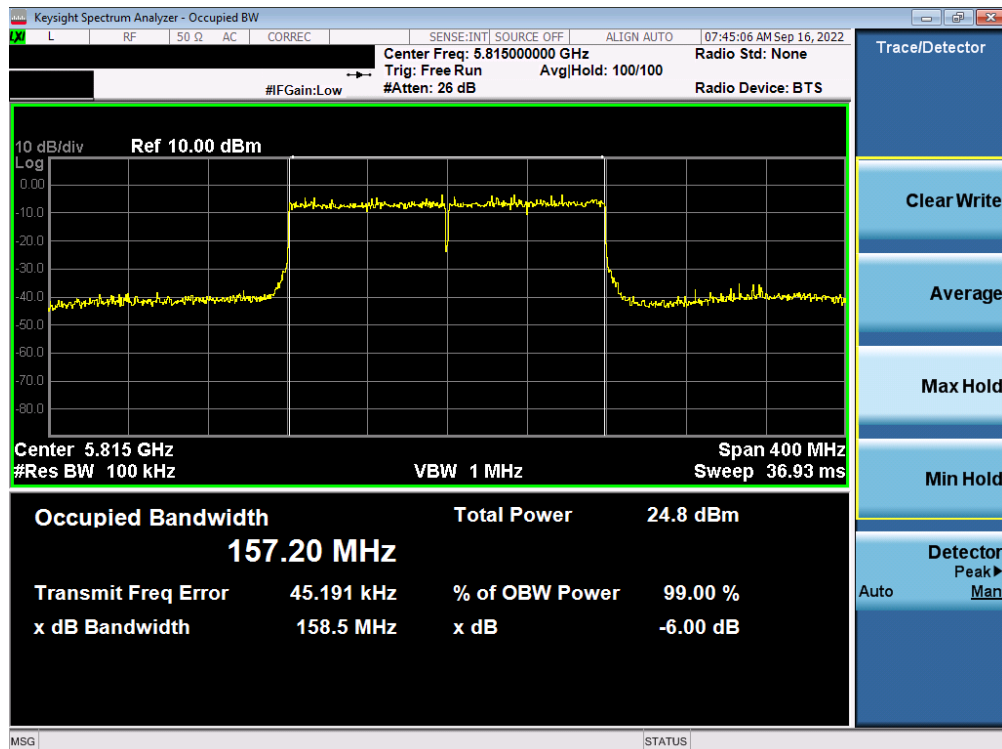


Plot 7-148. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 4) – Ch. 175)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 102 of 231



Plot 7-149. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-150. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax – 996\*2 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 103 of 231

## 7.4 UNII Output Power Measurement – 802.11ax OFDMA

§15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

### 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). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or  $10 + 10 \log_{10}B$ , dBm.***

***In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or  $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(22.09) = 24.44\text{dBm}$ . The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or  $17 + 10 \log_{10}B$ , dBm.***

***In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or  $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(22.35) = 24.49\text{dBm}$ . The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or  $17 + 10 \log_{10}B$ , dBm.***

***In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.***

***In the 5.850 – 5.895 GHz band, the maximum permissible e.i.r.p is 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**

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 104 of 231



# MIMO Conducted Output Power Measurements (26 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
				RU Index: 0			RU Index: 4			RU Index: 8									
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO							
20MHz BW	1	36	26T	5180	9.79	10.91	13.40	9.59	10.63	13.15	9.76	10.85	13.35	23.98	-10.58	0.10	13.50	22.39	-8.89
				5200	9.82	11.21	13.58	9.58	10.89	13.29	9.78	11.11	13.51	23.98	-10.40	0.10	13.68	22.39	-8.71
				5240	9.85	11.00	13.47	9.56	10.68	13.17	9.79	10.92	13.40	23.98	-10.51	0.10	13.57	22.39	-8.82
	2A	56	26T	5260	10.14	10.79	13.49	9.91	10.47	13.21	10.14	10.76	13.47	23.47	-9.98	0.33	13.82	29.47	-15.65
				5280	10.25	11.01	13.66	9.93	10.67	13.33	10.46	10.91	13.70	23.47	-9.77	0.33	14.03	29.47	-15.44
				5320	10.36	10.96	13.68	9.88	10.67	13.30	10.11	10.92	13.54	23.47	-9.79	0.33	14.01	29.47	-15.46
	2C	100	26T	5500	10.44	10.93	13.70	10.12	10.64	13.40	10.31	10.85	13.60	22.80	-9.10	-1.61	12.09	28.80	-16.71
				5600	10.02	11.19	13.65	9.71	10.79	13.29	9.84	10.96	13.45	22.80	-9.15	-1.61	12.04	28.80	-16.76
				5720	10.51	10.96	13.75	10.19	10.67	13.45	10.45	10.86	13.67	22.80	-9.05	-1.61	12.14	28.80	-16.66
	3	149	26T	5745	10.32	11.24	13.81	10.05	11.04	13.58	10.22	11.16	13.73	30.00	-16.19	-1.95	11.86	-	-
				5785	10.32	11.17	13.78	9.92	10.88	13.44	10.22	11.08	13.68	30.00	-16.22	-1.95	11.83	-	-
		165	26T	5825	10.47	11.29	13.91	10.16	11.00	13.61	10.38	11.19	13.81	30.00	-16.09	-1.95	11.96	-	-
5845				10.44	11.34	13.92	10.09	11.04	13.60	10.34	11.21	13.81	30.00	-16.08	-2.23	11.69	30.00	-18.31	
173		26T	5865	10.46	11.33	13.93	10.10	11.04	13.61	10.36	11.21	13.82	30.00	-16.07	-2.23	11.70	30.00	-18.30	
			5885	10.71	10.87	13.80	10.35	10.59	13.48	10.60	10.82	13.72	30.00	-16.20	-2.23	11.57	30.00	-18.43	

Table 7-14. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
				RU Index: 0			RU Index: 8			RU Index: 17									
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO							
40MHz BW	1	38	26T	5190	9.44	10.93	13.26	9.49	10.93	13.28	9.50	10.83	13.23	23.98	-10.70	0.10	13.38	22.39	-9.01
				5230	9.54	10.99	13.34	9.47	10.86	13.23	9.59	10.91	13.31	23.98	-10.64	0.10	13.44	22.39	-8.95
				5270	9.89	10.83	13.40	9.82	10.71	13.30	9.85	10.73	13.32	23.98	-10.58	0.10	13.50	22.39	-8.89
	2A	62	26T	5310	9.69	10.87	13.33	9.58	10.74	13.21	9.66	10.78	13.27	23.47	-10.14	0.33	13.66	29.47	-15.81
				5510	10.02	10.79	13.43	9.84	10.71	13.31	9.83	10.65	13.27	22.80	-9.37	-1.61	11.82	28.80	-16.98
				5590	9.77	11.11	13.50	9.59	10.86	13.28	9.59	10.77	13.23	22.80	-9.30	-1.61	11.89	28.80	-16.91
	2C	118	26T	5710	10.22	10.94	13.61	10.06	10.81	13.46	10.17	10.77	13.49	22.80	-9.19	-1.61	12.00	28.80	-16.80
				5755	10.10	11.08	13.63	10.03	10.94	13.52	10.11	10.99	13.58	30.00	-16.37	-1.95	11.68	-	-
				5795	10.24	11.13	13.72	10.21	11.08	13.68	9.99	11.01	13.54	30.00	-16.28	-1.95	11.77	-	-
	4	167	26T	5835	10.33	11.21	13.80	10.19	11.08	13.67	10.22	11.11	13.70	30.00	-16.20	-2.23	11.57	30.00	-18.43
				5875	10.24	11.05	13.67	10.08	10.98	13.56	10.14	11.00	13.60	30.00	-16.33	-2.23	11.44	30.00	-18.56

Table 7-15. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
				RU Index: 0			RU Index: 18			RU Index: 36									
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO							
80MHz BW	1	42	26T	5210	9.49	11.29	13.49	9.24	10.88	13.15	9.77	11.37	13.65	23.98	-10.33	0.10	13.75	22.39	-8.64
				5290	9.81	11.07	13.50	9.59	10.77	13.23	10.02	11.29	13.71	23.47	-9.76	0.33	14.04	29.47	-15.43
				5530	9.98	11.11	13.59	9.52	10.71	13.17	9.87	11.00	13.48	22.80	-9.21	-1.61	11.98	28.80	-16.82
	2C	122	26T	5610	10.07	11.14	13.65	9.61	10.55	13.12	9.91	11.03	13.52	22.80	-9.15	-1.61	12.04	28.80	-16.76
				5690	10.11	11.04	13.61	9.70	10.64	13.21	10.21	11.02	13.64	22.80	-9.16	-1.61	12.03	28.80	-16.77
				5775	10.04	11.04	13.58	9.75	10.71	13.27	10.17	11.12	13.68	30.00	-16.32	-1.95	11.73	-	-
	4	5855	10.31	11.06	13.71	9.94	10.86	13.43	10.34	11.22	13.81	30.00	-16.19	-2.23	11.58	30.00	-18.42		

Table 7-16. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
				RU Index: 0			RU Index: 18			RU Index: 36									
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO							
160MHz BW	1/2A	50	26T	5250	9.75	10.93	13.39	9.63	10.62	13.16	9.86	10.78	13.35	23.98	-10.59	0.10	13.49	22.39	-8.90
				5570	9.73	11.02	13.43	9.39	10.74	13.13	9.43	10.77	13.16	23.47	-10.04	0.33	13.76	29.47	-15.71
	4	163	26T	5815	10.31	11.22	13.80	10.14	10.96	13.58	10.25	11.10	13.71	30.00	-16.20	-2.23	11.57	30.00	-18.43

Table 7-17. MIMO 160MHz(L) BW (UNII) Maximum Conducted Output Power (26 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
				RU Index: 0			RU Index: 18			RU Index: 36									
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO							
160MHz BW	1/2A	50	26T	5250	10.41	11.08	13.77	10.56	11.12	13.86	10.18	10.77	13.50	23.98	-10.12	0.10	13.96	22.39	-8.43
				5570	9.86	11.34	13.67	9.83	11.07	13.50	9.98	11.35	13.73	23.47	-9.74	0.33	14.06	29.47	-15.41
	4	163	26T	5815	10.14	10.96	13.58	10.16	11.04	13.63	10.45	11.32	13.92	30.00	-16.20	-2.23	11.69	30.00	-18.31

Table 7-18. MIMO 160MHz(U) BW (UNII) Maximum Conducted Output Power (26 Tones)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 105 of 231

## MIMO Conducted Output Power Measurements (52 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
				RU Index: 37			RU Index: 39			RU Index: 40									
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO							
20MHz BW	1	36	5180	52T	12.88	14.07	16.53	12.77	13.84	16.35	12.85	13.94	16.44	23.98	-7.45	0.10	16.63	22.39	-5.76
			5200	52T	12.91	14.28	16.66	12.76	14.12	16.50	12.84	14.22	16.59	23.98	-7.32	0.10	16.76	22.39	-5.63
			5240	52T	12.87	13.94	16.45	12.75	13.74	16.28	12.85	13.87	16.40	23.98	-7.53	0.10	16.55	22.39	-5.84
	2A	52	5260	52T	13.09	13.95	16.55	12.96	13.86	16.44	13.04	13.94	16.52	23.47	-6.92	0.33	16.88	29.47	-12.59
			5280	52T	13.17	14.19	16.72	13.07	14.06	16.60	13.13	14.10	16.65	23.47	-6.75	0.33	17.05	29.47	-12.42
			5320	52T	13.06	13.92	16.52	12.89	13.75	16.35	12.94	13.86	16.43	23.47	-6.95	0.33	16.85	29.47	-12.62
2C	100	52T	5500	13.14	13.97	16.59	12.98	13.76	16.40	13.04	13.89	16.50	22.80	-6.21	-1.61	14.98	28.80	-13.82	
			5600	120	13.16	14.16	16.70	12.96	13.89	16.46	13.01	14.02	16.55	22.80	-6.10	-1.61	15.09	28.80	-13.71
			5720	144	13.48	14.05	16.78	13.29	13.89	16.61	13.39	13.98	16.71	22.80	-6.02	-1.61	15.17	28.80	-13.63
3	149	52T	5745	13.42	14.15	16.81	13.15	13.99	16.60	13.17	14.12	16.68	30.00	-13.19	-1.95	14.86	-	-	
			5785	157	13.43	14.08	16.78	13.16	13.94	16.58	13.28	14.04	16.69	30.00	-13.22	-1.95	14.83	-	-
			5825	165	13.48	14.11	16.82	13.29	13.94	16.64	13.38	14.01	16.72	30.00	-13.18	-1.95	14.87	-	-
4	169	52T	5845	13.52	14.28	16.93	13.32	14.09	16.73	13.43	14.19	16.84	30.00	-13.07	-2.23	14.70	30.00	-15.30	
			5865	173	13.47	14.27	16.90	13.27	14.04	16.68	13.36	14.15	16.78	30.00	-13.10	-2.23	14.67	30.00	-15.33
			5885	177	13.66	13.95	16.82	13.41	13.79	16.61	13.55	13.93	16.75	30.00	-13.18	-2.23	14.59	30.00	-15.41

Table 7-19. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]		
				RU Index: 37			RU Index: 40			RU Index: 44										
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO								
40MHz BW	1	38	5190	52T	12.77	13.98	16.43	12.77	13.92	16.39	12.76	13.88	16.37	23.98	-7.55	0.10	16.53	22.39	-5.86	
			5230	46	52T	12.81	13.96	16.43	12.73	13.84	16.33	12.81	13.92	16.41	23.98	-7.55	0.10	16.53	22.39	-5.86
			5270	54	52T	13.02	13.99	16.54	12.92	13.84	16.41	12.92	13.86	16.43	23.98	-7.44	0.10	16.64	22.39	-5.75
	2A	62	52T	5310	12.94	13.78	16.39	12.85	13.66	16.28	12.90	13.82	16.39	23.47	-7.08	0.33	16.72	29.47	-12.75	
				5510	102	13.13	13.84	16.51	13.03	13.84	16.46	12.86	13.77	16.35	22.80	-6.29	-1.61	14.90	28.80	-13.90
				5590	118	52T	12.97	14.18	16.63	12.82	13.92	16.42	12.81	13.88	16.39	22.80	-6.17	-1.61	15.02	28.80
2C	142	52T	5710	13.33	13.98	16.68	13.23	13.89	16.58	13.33	13.87	16.62	22.80	-6.12	-1.61	15.07	28.80	-13.73		
			5755	151	52T	13.18	14.03	16.64	13.04	13.92	16.51	13.17	13.97	16.60	30.00	-13.36	-1.95	14.69	-	-
			5795	159	52T	13.36	14.07	16.74	13.24	13.95	16.62	13.25	13.96	16.63	30.00	-13.26	-1.95	14.79	-	-
4	167	52T	5835	13.34	14.22	16.81	13.22	14.01	16.64	13.25	14.09	16.70	30.00	-13.19	-2.23	14.58	30.00	-15.42		
			5875	175	52T	13.23	14.21	16.76	13.09	14.09	16.63	13.17	14.18	16.71	30.00	-13.24	-2.23	14.53	30.00	-15.47

Table 7-20. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]			
				RU Index: 37			RU Index: 44			RU Index: 52											
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO									
80MHz BW	1	42	5210	52T	12.88	14.26	16.63	12.79	14.17	16.54	13.11	14.32	16.77	23.98	-7.21	0.10	16.87	22.39	-5.52		
			2A	58	5290	52T	13.15	14.05	16.63	13.10	14.01	16.59	13.34	14.22	16.81	23.47	-6.66	0.33	17.14	29.47	-12.33
					5530	106	52T	13.20	14.06	16.66	13.04	13.98	16.55	13.03	13.93	16.51	22.80	-6.14	-1.61	15.05	28.80
	2C	122	52T	5610	13.35	14.25	16.83	13.16	13.97	16.59	13.19	14.16	16.71	22.80	-5.97	-1.61	15.22	28.80	-13.58		
				5690	138	52T	13.28	14.17	16.76	13.15	14.07	16.64	13.35	14.19	16.80	22.80	-6.00	-1.61	15.19	28.80	-13.61
				3	155	52T	13.21	14.19	16.74	13.17	14.04	16.64	13.31	14.22	16.80	30.00	-13.20	-1.95	14.85	-	-
4	171	52T	13.51	14.29	16.93	13.39	14.12	16.78	13.52	14.33	16.95	30.00	-13.05	-2.23	14.72	30.00	-15.28				

Table 7-21. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]		
				RU Index: 37			RU Index: 44			RU Index: 52										
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO								
160MHz BW	1/2A	50	5250	52T	12.89	13.51	16.22	12.87	13.67	16.30	12.96	13.65	16.33	23.98	-7.65	0.10	16.43	22.39	-5.96	
			2C	114	52T	12.96	14.31	16.70	12.79	14.21	16.57	12.69	14.06	16.44	23.47	-6.77	0.33	17.03	29.47	-12.44
			4	163	52T	13.41	14.18	16.82	13.38	14.02	16.72	13.36	13.99	16.70	30.00	-13.05	-2.23	14.59	30.00	-15.41

Table 7-22. MIMO 160MHz(L) BW (UNII) Maximum Conducted Output Power (52 Tones)

Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. Limit [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]		
				RU Index: 37			RU Index: 44			RU Index: 52										
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO								
160MHz BW	1/2A	50	5250	52T	13.35	13.89	16.64	13.61	14.05	16.85	13.26	13.79	16.54	23.98	-7.13	0.10	16.95	22.39	-5.44	
			2C	114	52T	12.59	13.9	16.30	12.59	13.79	16.24	12.64	13.97	16.37	23.47	-7.10	0.33	16.70	29.47	-12.77
			4	163	52T	13.27	13.97	16.64	13.34	14.04	16.71	13.49	14.19	16.86	30.00	-13.05	-2.23	14.63	30.00	-15.37

Table 7-23. MIMO 160MHz(U) BW (UNII) Maximum Conducted Output Power (52 Tones)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 106 of 231





## MIMO Conducted Output Power Measurements (242 Tones)

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 61								
					ANT1	ANT2	MIMO						
1	5180	36	242T	16.81	17.01	19.92	23.98	-4.06	0.10	20.02	22.39	-2.37	
	5200	40	242T	16.53	17.68	20.15	23.98	-3.83	0.10	20.25	22.39	-2.14	
	5240	48	242T	16.80	17.54	20.20	23.98	-3.78	0.10	20.30	22.39	-2.09	
2A	5260	52	242T	16.82	17.30	20.08	23.47	-3.39	0.33	20.41	29.47	-9.06	
	5280	56	242T	16.92	17.57	20.27	23.47	-3.20	0.33	20.60	29.47	-8.87	
	5320	64	242T	16.57	17.01	19.81	23.47	-3.66	0.33	20.14	29.47	-9.33	
2C	5500	100	242T	16.78	17.41	20.12	22.80	-2.68	-1.61	18.51	28.80	-10.29	
	5600	120	242T	16.77	17.54	20.18	22.80	-2.62	-1.61	18.57	28.80	-10.23	
	5720	144	242T	17.25	17.51	20.39	22.80	-2.41	-1.61	18.78	28.80	-10.02	
3	5745	149	242T	17.21	17.48	20.36	30.00	-9.64	-1.95	18.41	-	-	
	5785	157	242T	17.04	17.59	20.33	30.00	-9.67	-1.95	18.38	-	-	
	5825	165	242T	17.02	17.61	20.34	30.00	-9.66	-1.95	18.39	-	-	
4	5845	169	242T	17.06	17.67	20.39	30.00	-9.61	-2.23	18.16	30.00	-11.84	
	5865	173	242T	16.99	17.62	20.33	30.00	-9.67	-2.23	18.10	30.00	-11.90	
	5885	177	242T	17.35	17.45	20.41	30.00	-9.59	-2.23	18.18	30.00	-11.82	

Table 7-29. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 61			RU Index: 62								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5190	38	242T	16.16	17.22	19.73	16.42	17.41	19.95	23.98	-4.03	0.10	20.05	22.39	-2.34	
	5230	46	242T	17.17	18.11	20.68	17.14	18.02	20.61	23.98	-3.30	0.10	20.78	22.39	-1.61	
	5270	54	242T	17.29	17.64	20.48	17.14	17.72	20.45	23.98	-3.50	0.10	20.58	22.39	-1.81	
2A	5310	62	242T	16.29	17.16	19.76	16.33	17.17	19.78	23.47	-3.69	0.33	20.11	29.47	-9.36	
	5510	102	242T	16.89	17.24	20.08	17.24	17.70	20.49	22.80	-2.31	-1.61	18.88	28.80	-9.92	
	5590	118	242T	16.75	17.44	20.12	16.98	17.79	20.41	22.80	-2.39	-1.61	18.80	28.80	-10.00	
2C	5710	142	242T	16.88	17.48	20.20	16.99	17.41	20.22	22.80	-2.58	-1.61	18.61	28.80	-10.19	
	5755	151	242T	16.92	17.52	20.24	16.78	17.42	20.12	30.00	-9.76	-1.95	18.29	-	-	
	5795	159	242T	16.75	17.49	20.15	17.36	17.44	20.41	30.00	-9.59	-1.95	18.46	-	-	
3	5835	167	242T	16.74	17.36	20.07	17.29	17.46	20.39	30.00	-9.61	-2.23	18.16	30.00	-11.84	
	5875	175	242T	16.81	17.41	20.13	16.56	17.14	19.87	30.00	-9.87	-2.23	17.90	30.00	-12.10	

Table 7-30. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 61			RU Index: 62			RU Index: 64								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5210	42	242T	16.67	17.19	19.95	16.55	17.28	19.94	16.71	17.24	19.99	23.98	-3.99	0.10	20.09	22.39	-2.30	
	5290	58	242T	16.58	17.35	19.99	16.59	17.27	19.95	16.81	17.14	19.99	23.47	-3.48	0.33	20.32	29.47	-9.15	
	5530	106	242T	16.59	17.49	20.07	16.59	17.48	20.07	17.29	17.21	20.26	22.80	-2.54	-1.61	18.65	28.80	-10.15	
2C	5610	122	242T	16.72	17.48	20.13	16.59	17.44	20.05	16.99	17.34	20.18	22.80	-2.62	-1.61	18.57	28.80	-10.23	
	5690	138	242T	16.77	17.29	20.05	16.72	17.47	20.12	17.14	17.19	20.18	22.80	-2.62	-1.61	18.57	28.80	-10.23	
	5775	155	242T	17.10	17.33	20.23	17.10	17.38	20.25	17.01	17.44	20.24	30.00	-9.75	-1.95	18.30	-	-	
4	5855	171	242T	17.11	17.47	20.30	17.12	17.33	20.24	17.10	17.46	20.29	30.00	-9.70	-2.23	18.07	30.00	-11.93	

Table 7-31. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 61			RU Index: 62			RU Index: 64								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1/2A	5250	50	242T	16.17	17.11	19.68	16.11	17.21	19.71	16.32	17.11	19.74	23.98	-4.24	0.10	19.84	22.39	-2.55	
	5570	114	242T	17.25	17.44	20.36	17.18	17.46	20.33	16.44	17.48	20.00	23.47	-3.11	0.33	20.69	29.47	-8.78	
	5815	163	242T	17.18	17.36	20.28	17.22	17.42	20.33	16.72	17.49	20.13	30.00	-9.75	-1.95	18.10	30.00	-11.90	

Table 7-32. MIMO 160MHz(L) BW (UNII) Maximum Conducted Output Power (242 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)									Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 61			RU Index: 62			RU Index: 64								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1/2A	5250	50	242T	16.27	17.22	19.78	16.39	17.32	19.89	15.99	16.89	19.47	23.98	-4.09	0.10	19.99	22.39	-2.40	
	5570	114	242T	16.85	17.49	20.19	16.77	17.42	20.12	16.58	17.39	20.01	23.47	-3.28	0.33	20.52	29.47	-8.95	
	5815	163	242T	17.28	17.29	20.30	17.14	17.48	20.32	17.21	17.44	20.34	30.00	-9.75	-1.95	18.11	30.00	-11.89	

Table 7-33. MIMO 160MHz(U) BW (UNII) Maximum Conducted Output Power (242 Tones)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 108 of 231

## MIMO Conducted Output Power Measurements (484 Tones)

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 65								
					ANT1	ANT2	MIMO						
1	5190	38	484T	16.04	16.83	19.46	23.98	-4.52	0.10	19.56	22.39	-2.83	
	5230	46	484T	16.24	17.09	19.70	23.98	-4.28	0.10	19.80	22.39	-2.59	
2A	5270	54	484T	16.30	16.79	19.56	23.98	-4.42	0.10	19.66	22.39	-2.73	
	5310	62	484T	16.21	16.93	19.60	23.47	-3.87	0.33	19.93	29.47	-9.54	
2C	5510	102	484T	16.38	16.66	19.53	22.80	-3.27	-1.61	17.92	28.80	-10.88	
	5590	118	484T	15.78	16.96	19.42	22.80	-3.38	-1.61	17.81	28.80	-10.99	
3	5710	142	484T	16.65	16.72	19.70	22.80	-3.10	-1.61	18.09	28.80	-10.71	
	5755	151	484T	16.34	17.02	19.70	30.00	-10.30	-1.95	17.75	-	-	
4	5795	159	484T	16.42	16.93	19.69	30.00	-10.31	-1.95	17.74	-	-	
	5835	167	484T	16.47	17.01	19.76	30.00	-10.24	-2.23	17.53	30.00	-12.47	
	5875	175	484T	16.55	16.84	19.71	30.00	-10.29	-2.23	17.48	30.00	-12.52	

Table 7-34. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 65			RU Index: 66								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5210	42	484T	15.69	16.45	19.10	15.28	17.16	19.33	23.98	-4.65	0.10	19.43	22.39	-2.96	
2A	5290	58	484T	15.56	16.99	19.34	15.47	17.01	19.32	23.47	-4.13	0.33	19.67	29.47	-9.80	
	5530	106	484T	16.38	17.05	19.74	16.17	16.84	19.53	22.80	-3.06	-1.61	18.13	28.80	-10.67	
2C	5610	122	484T	16.27	17.01	19.67	16.11	16.87	19.52	22.80	-3.13	-1.61	18.06	28.80	-10.74	
	5690	138	484T	16.43	17.03	19.75	16.47	16.99	19.75	22.80	-3.05	-1.61	18.14	28.80	-10.66	
3	5775	155	484T	16.19	16.98	19.61	16.21	16.96	19.61	30.00	-10.39	-1.95	17.66	-	-	
4	5855	171	484T	16.35	17.12	19.76	16.29	17.12	19.74	30.00	-10.24	-2.23	17.53	30.00	-12.47	

Table 7-35. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 65			RU Index: 66								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1/2A	5250	50	484T	16.03	16.91	19.50	16.16	16.84	19.52	23.98	-4.46	0.10	19.62	22.39	-2.77	
2C	5570	114	484T	16.11	17.25	19.73	15.97	17.12	19.59	23.47	-3.74	0.33	20.06	29.47	-9.41	
4	5815	163	484T	16.50	17.06	19.80	16.49	17.12	19.83			-2.23	17.60	30.00	-12.40	

Table 7-36. MIMO 160MHz(L) BW (UNII) Maximum Conducted Output Power (484 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 65			RU Index: 66								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
1	5250	50	484T	16.23	16.87	19.57	16.29	16.89	19.61	23.98	-4.37	0.10	19.71	22.39	-2.68	
2C	5570	114	484T	15.89	16.98	19.48	15.77	16.91	19.39	23.47	-3.99	0.33	19.81	29.47	-9.66	
4	5815	163	484T	16.44	17.12	19.80	16.39	17.09	19.76			-2.23	17.57	30.00	-12.43	

Table 7-37. MIMO 160MHz(U) BW (UNII) Maximum Conducted Output Power (484 Tones)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 109 of 231

## MIMO Conducted Output Power Measurements (996 Tones)

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 67								
					ANT1	ANT2	MIMO						
1	5210	42	996T	15.08	16.67	18.96	23.98	-5.02	0.10	19.06	22.39	-3.33	
2A	5290	58	996T	15.23	16.54	18.94	23.47	-4.53	0.33	19.27	29.47	-10.20	
2C	5530	106	996T	15.21	16.44	18.88	22.80	-3.92	-1.61	17.27	28.80	-11.53	
	5610	122	996T	15.24	16.38	18.86	22.80	-3.94	-1.61	17.25	28.80	-11.55	
	5690	138	996T	15.47	16.44	18.99	22.80	-3.81	-1.61	17.38	28.80	-11.42	
3	5775	155	996T	15.21	16.51	18.92	30.00	-11.08	-1.95	16.97	-	-	
4	5855	171	996T	14.87	16.12	18.55	30.00	-11.45	-2.23	16.32	30.00	-13.68	

Table 7-38. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 67								
					ANT1	ANT2	MIMO						
1/2A	5250	50	996T	15.29	16.44	18.91	23.98	-5.07	0.10	19.01	22.39	-3.38	
2C	5570	114	996T	15.10	16.70	18.98	23.47	-4.49	0.33	19.31	29.47	-10.16	
4	5815	163	996T	15.24	16.35	18.84			-2.23	16.61	30.00	-13.39	

Table 7-39. MIMO 160MHz(L) BW (UNII) Maximum Conducted Output Power (996 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 67								
					ANT1	ANT2	MIMO						
1/2A	5250	50	996T	15.08	15.91	18.53	23.98	-5.45	0.10	18.63	22.39	-3.76	
2C	5570	114	996T	14.78	16.23	18.58	23.47	-4.89	0.33	18.91	29.47	-10.56	
4	5815	163	996T	14.8	16.15	18.54			-2.23	16.31	30.00	-13.69	

Table 7-40. MIMO 160MHz(U) BW (UNII) Maximum Conducted Output Power (996 Tones)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 110 of 231



## MIMO Conducted Output Power Measurements (2x996 Tones)

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					RU Index: 67								
					ANT1	ANT2	MIMO						
1/2A	5250	50	2x996T	14.88	15.96	18.46	23.98	-5.52	0.10	18.56	22.39	-3.83	
2C	5570	114	2x996T	14.38	15.85	18.19	23.47	-5.28	0.33	18.52	29.47	-10.95	
4	5815	163	2x996T	15.22	16.25	18.78			-2.23	16.55	30.00	-13.45	

Table 7-41. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (996\*2 Tones)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 111 of 231



**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 17.36 dBm for Antenna 1 and 17.23 dBm for Antenna 2.

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

$$(17.36 \text{ dBm} + 17.23 \text{ dBm}) = (54.40 \text{ mW} + 52.89 \text{ mW}) = 107.29 \text{ mW} = 20.31 \text{ dBm}$$

**Sample e.i.r.p. Calculation:**

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 20.31 dBm with directional gain of -0.31dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$20.31 \text{ dBm} + -0.31 \text{ dBi} = 20.0 \text{ dBm}$$

<b>FCC ID:</b> A3LSMS918JPN	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2212080137-12-R1.A3L	<b>Test Dates:</b> 9/08 - 11/08/2022	<b>EUT Type:</b> Portable Handset	Page 112 of 231

## 7.5 Maximum Power Spectral Density – 802.11ax OFDMA

§15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

### 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 band, the maximum permissible power spectral density is 11dBm/MHz.***

***In the 5.25 – 5.35GHz and 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.***

***In the 5.850 – 5.855GHz band, the maximum permissible power spectral density is 14dBm/MHz e.i.r.p.***

### 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

The power spectral density for each channel was measured with the RU index showing the highest conducted power.

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 113 of 231

## Summed MIMO Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	5.56	7.52	9.66	11.00	-1.34
	5200	40	ax (20MHz)	26T	MCS0	6.96	7.20	10.09	11.00	-0.91
	5240	48	ax (20MHz)	26T	MCS0	6.45	7.52	10.03	11.00	-0.97
	5190	38	ax (40MHz)	26T	MCS0	7.14	7.34	10.25	11.00	-0.75
	5230	46	ax (40MHz)	26T	MCS0	7.15	7.29	10.23	11.00	-0.77
	5210	42	ax (80MHz)	26T	MCS0	6.87	7.60	10.26	11.00	-0.74
Band 1/2A	5250	50	ax (160MHz L )	26T	MCS0	6.76	6.91	9.84	11.00	-1.16
	5250	50	ax (160MHz U )	26T	MCS0	5.67	6.62	9.18	11.00	-1.82
Band 2A	5260	52	ax (20MHz)	26T	MCS0	7.69	8.25	10.99	11.00	-0.01
	5280	56	ax (20MHz)	26T	MCS0	7.55	8.37	10.99	11.00	-0.01
	5320	64	ax (20MHz)	26T	MCS0	7.28	7.95	10.64	11.00	-0.36
	5270	54	ax (40MHz)	26T	MCS0	7.75	8.14	10.96	11.00	-0.04
	5310	62	ax (40MHz)	26T	MCS0	7.33	8.21	10.80	11.00	-0.20
	5290	58	ax (80MHz)	26T	MCS0	7.14	8.41	10.83	11.00	-0.17
Band 2C	5500	100	ax (20MHz)	26T	MCS0	7.83	8.00	10.93	11.00	-0.07
	5600	120	ax (20MHz)	26T	MCS0	7.45	8.05	10.77	11.00	-0.23
	5720	144	ax (20MHz)	26T	MCS0	8.17	7.74	10.97	11.00	-0.03
	5510	102	ax (40MHz)	26T	MCS0	7.80	8.08	10.95	11.00	-0.05
	5590	118	ax (40MHz)	26T	MCS0	7.21	7.68	10.46	11.00	-0.54
	5710	142	ax (40MHz)	26T	MCS0	7.96	7.58	10.78	11.00	-0.22
	5530	106	ax (80MHz)	26T	MCS0	7.42	8.25	10.87	11.00	-0.13
	5610	122	ax (80MHz)	26T	MCS0	7.27	8.11	10.72	11.00	-0.28
	5690	138	ax (80MHz)	26T	MCS0	7.67	7.94	10.82	11.00	-0.18
	5570	114	ax (160MHz L )	26T	MCS0	7.01	7.85	10.46	11.00	-0.54
	5570	114	ax (160MHz U )	26T	MCS0	6.35	7.43	9.93	11.00	-1.07

Table 7-42. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	5.39	6.17	8.81	30.00	-21.19
	5785	157	ax (20MHz)	26T	MCS0	5.33	5.99	8.68	30.00	-21.32
	5825	165	ax (20MHz)	26T	MCS0	5.54	6.12	8.85	30.00	-21.15
	5755	151	ax (40MHz)	26T	MCS0	5.01	5.79	8.43	30.00	-21.57
	5795	159	ax (40MHz)	26T	MCS0	5.43	5.73	8.59	30.00	-21.41
	5775	155	ax (80MHz)	26T	MCS0	4.60	5.58	8.13	30.00	-21.87

Table 7-43. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	MIMO Summed Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Directional Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	26T	MCS0	8.33	8.40	11.38	30.00	-18.62	-2.23	9.15	14.00	-4.85
Band 4	5865	173	ax (20MHz)	26T	MCS0	8.13	8.73	11.45			-2.23	9.22	14.00	-4.78
	5885	177	ax (20MHz)	26T	MCS0	8.17	8.15	11.17			-2.23	8.94	14.00	-5.06
Band 3/4	5835	167	ax (40MHz)	26T	MCS0	7.91	8.16	11.05	30.00	-18.95	-2.23	8.82	14.00	-5.18
Band 4	5875	175	ax (40MHz)	26T	MCS0	8.14	8.27	11.22			-2.23	8.99	14.00	-5.01
	5855	171	ax (80MHz)	26T	MCS0	7.92	8.30	11.12	30.00	-18.88	-2.23	8.89	14.00	-5.11
Band 3/4	5815	163	ax (160MHz L)	26T	MCS0	7.06	8.44	10.82	30.00	-19.18	-2.23	8.59	14.00	-5.41
	5815	163	ax (160MHz U)	26T	MCS0	7.34	8.42	10.92	30.00	-19.08	-2.23	8.69	14.00	-5.31

Table 7-44. Band 3/4 MIMO Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 114 of 231	

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	4.99	6.15	8.62	11.00	-2.38
	5200	40	ax (20MHz)	242T	MCS0	5.31	6.18	8.78	11.00	-2.22
	5240	48	ax (20MHz)	242T	MCS0	5.33	6.38	8.90	11.00	-2.10
	5190	38	ax (40MHz)	484T	MCS0	1.29	2.22	4.79	11.00	-6.21
	5230	46	ax (40MHz)	484T	MCS0	1.35	2.40	4.92	11.00	-6.08
	5210	42	ax (80MHz)	996T	MCS0	-1.42	-0.31	2.18	11.00	-8.82
Band 1/2A	5250	50	ax (160MHz)	996*2T	MCS0	-9.54	-3.35	-2.41	11.00	-13.41
Band 2A	5260	52	ax (20MHz)	242T	MCS0	5.45	6.14	8.82	11.00	-2.18
	5280	56	ax (20MHz)	242T	MCS0	5.83	6.45	9.16	11.00	-1.84
	5320	64	ax (20MHz)	242T	MCS0	5.49	6.06	8.79	11.00	-2.21
	5270	54	ax (40MHz)	484T	MCS0	1.40	2.06	4.75	11.00	-6.25
	5310	62	ax (40MHz)	484T	MCS0	1.53	2.14	4.86	11.00	-6.14
	5290	58	ax (80MHz)	996T	MCS0	-1.30	-0.61	2.07	11.00	-8.93
Band 2C	5500	100	ax (20MHz)	242T	MCS0	5.80	6.09	8.96	11.00	-2.04
	5600	120	ax (20MHz)	242T	MCS0	5.11	5.89	8.53	11.00	-2.47
	5720	144	ax (20MHz)	242T	MCS0	6.13	6.19	9.17	11.00	-1.83
	5510	102	ax (40MHz)	484T	MCS0	1.61	2.10	4.87	11.00	-6.13
	5590	118	ax (40MHz)	484T	MCS0	1.04	1.97	4.54	11.00	-6.46
	5710	142	ax (40MHz)	484T	MCS0	1.70	2.31	5.03	11.00	-5.97
	5530	106	ax (80MHz)	996T	MCS0	-1.52	-1.01	1.75	11.00	-9.25
	5610	122	ax (80MHz)	996T	MCS0	-1.66	-1.07	1.66	11.00	-9.34
	5690	138	ax (80MHz)	996T	MCS0	-1.13	-0.54	2.19	11.00	-8.81
5570	114	ax (160MHz)	996T	MCS0	-9.55	-3.90	-2.85	11.00	-13.85	

Table 7-45. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	2.91	3.58	6.27	30.00	-23.73
	5785	157	ax (20MHz)	242T	MCS0	2.87	3.47	6.19	30.00	-23.81
	5825	165	ax (20MHz)	242T	MCS0	2.90	3.46	6.20	30.00	-23.80
	5755	151	ax (40MHz)	484T	MCS0	-1.29	-0.62	2.07	30.00	-27.93
	5795	159	ax (40MHz)	484T	MCS0	-1.10	-0.66	2.14	30.00	-27.86
	5775	155	ax (80MHz)	996T	MCS0	-3.91	-3.67	-0.78	30.00	-30.78

Table 7-46. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	MIMO Summed Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Directional Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	242T	MCS0	6.08	6.46	9.28	30.00	-20.72	-2.23	7.05	14.00	-6.95
Band 4	5865	173	ax (20MHz)	242T	MCS0	5.82	6.20	9.03			-2.23	6.80	14.00	-7.20
	5885	177	ax (20MHz)	242T	MCS0	5.92	5.97	8.96			-2.23	6.73	14.00	-7.27
Band 3/4	5835	167	ax (40MHz)	484T	MCS0	1.65	2.25	4.97	30.00	-25.03	-2.23	2.74	14.00	-11.26
Band 4	5875	175	ax (40MHz)	484T	MCS0	1.63	2.11	4.89			-2.23	2.66	14.00	-11.34
Band 3/4	5855	171	ax (80MHz)	996T	MCS0	-1.28	-0.60	2.08	30.00	-27.92	-2.23	-0.15	14.00	-14.15
	5815	163	ax (160MHz)	996T	MCS0	-4.17	-3.50	-0.81	30.00	-30.81	-2.23	-3.04	14.00	-17.04

Table 7-47. Band 3/4 MIMO Power Spectral Density Measurements MIMO (Full Tones)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 115 of 231	





**Note:**

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna-1 and Antenna-2 were first measured separately with reduced Antenna-1 and Antenna-2 powers per manufacture’s tune-up document. The measured values were then summed in linear power units then converted back to dBm.

**Sample Directional Gain Calculation:**

Assuming the antenna gain is -8.61 dBi for Antenna-1 and -7.68 dBi for Antenna-2.

$$\begin{aligned}
\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\
&= 10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2)] \text{ dBi} \\
&= (-5.12) \text{ dBi}
\end{aligned}$$

**Sample MIMO Calculation:**

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

$$\begin{aligned}
&\text{Antenna-1} + \text{Antenna-2} = \text{MIMO} \\
(5.88 \text{ dBm} + 6.27 \text{ dBm}) &= (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}
\end{aligned}$$

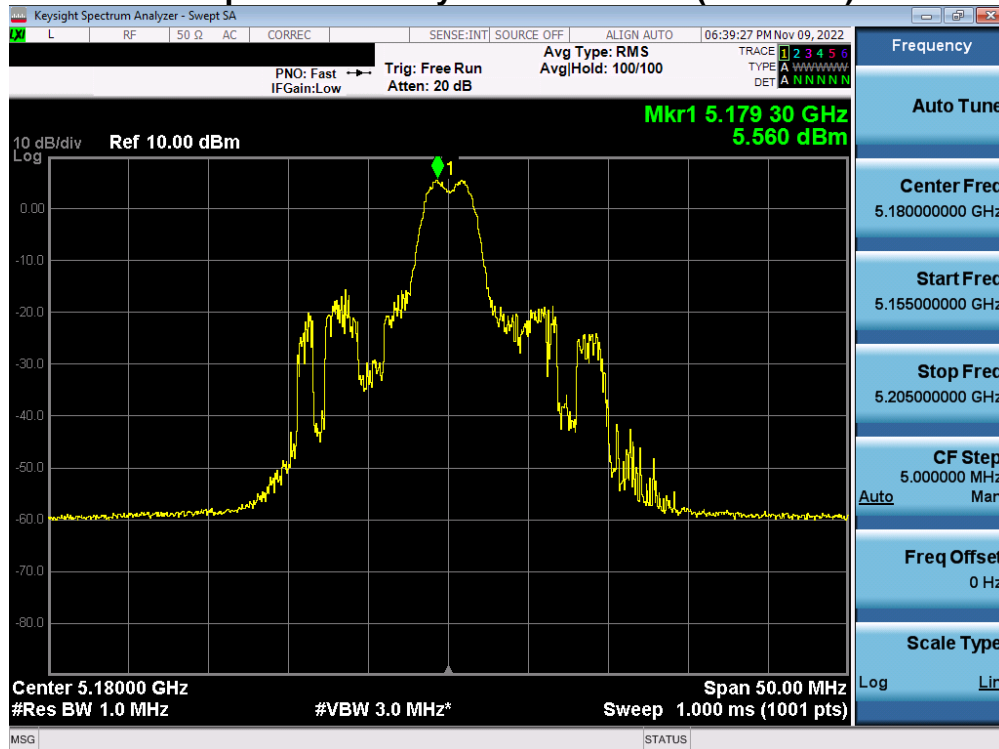
**Sample e.i.r.p Power Spectral Density Calculation:**

Assuming the average MIMO power density was calculated to be 9.09 dBm with directional gain of -5.12 dBi.

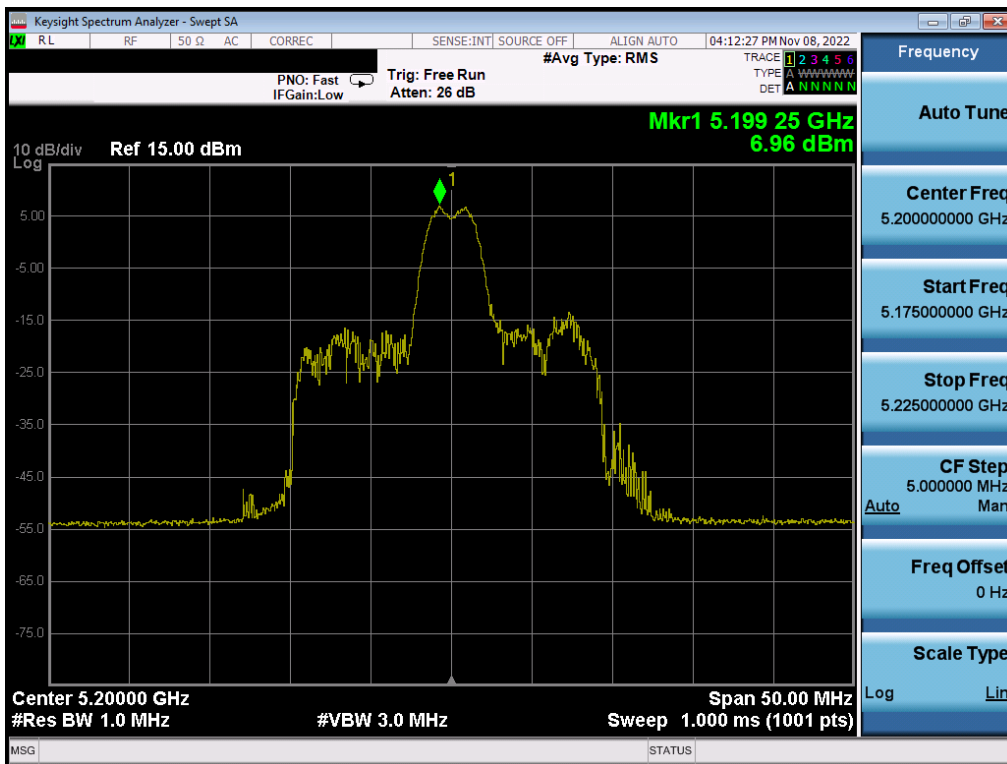
$$\begin{aligned}
\text{e.i.r.p. Power Spectral Density(dBm)} &= \text{Power Spectral Density (dBm)} + \text{directional gain (dBi)} \\
9.09 \text{ dBm} + (-5.12) \text{ dBi} &= 3.97 \text{ dBm}
\end{aligned}$$

<b>FCC ID:</b> A3LSMS918JPN	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2212080137-12-R1.A3L	<b>Test Dates:</b> 9/08 - 11/08/2022	<b>EUT Type:</b> Portable Handset	Page 116 of 231

## MIMO Antenna-1 Power Spectral Density Measurements (26 Tones)



Plot 7-151. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

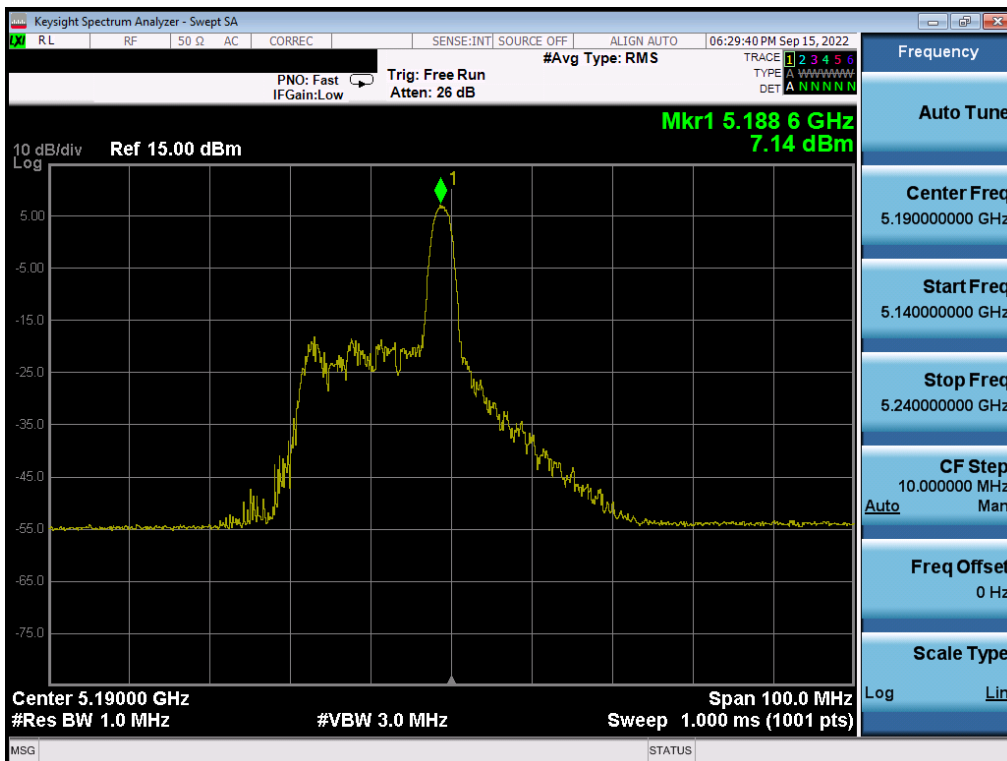


Plot 7-152. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 117 of 231

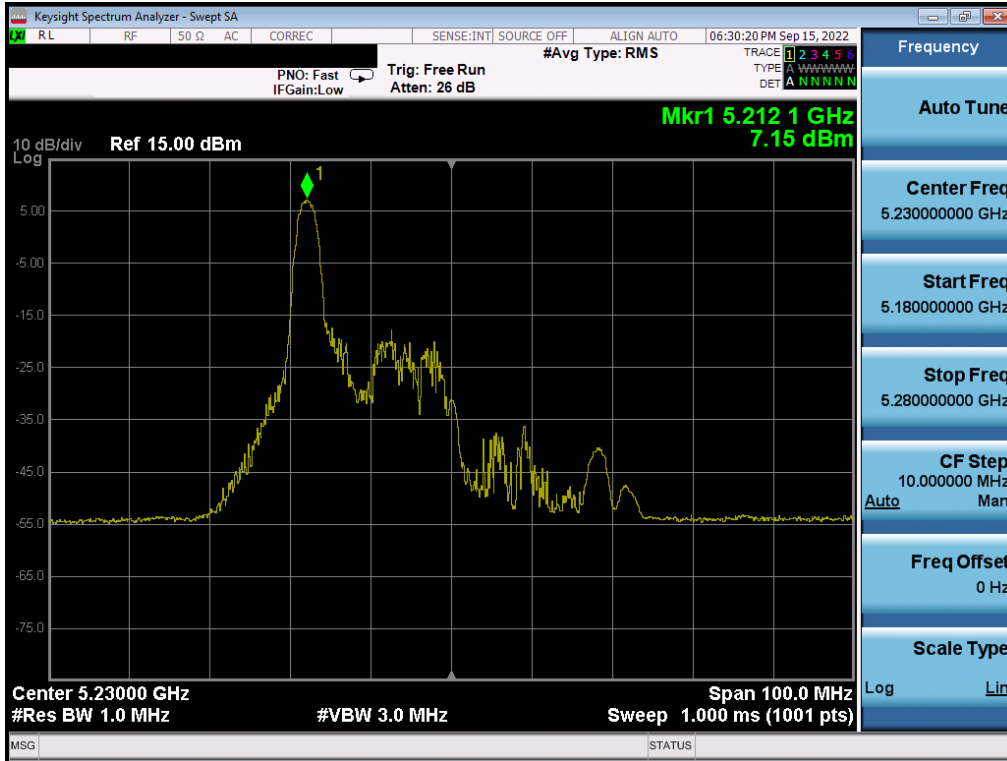


Plot 7-153. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

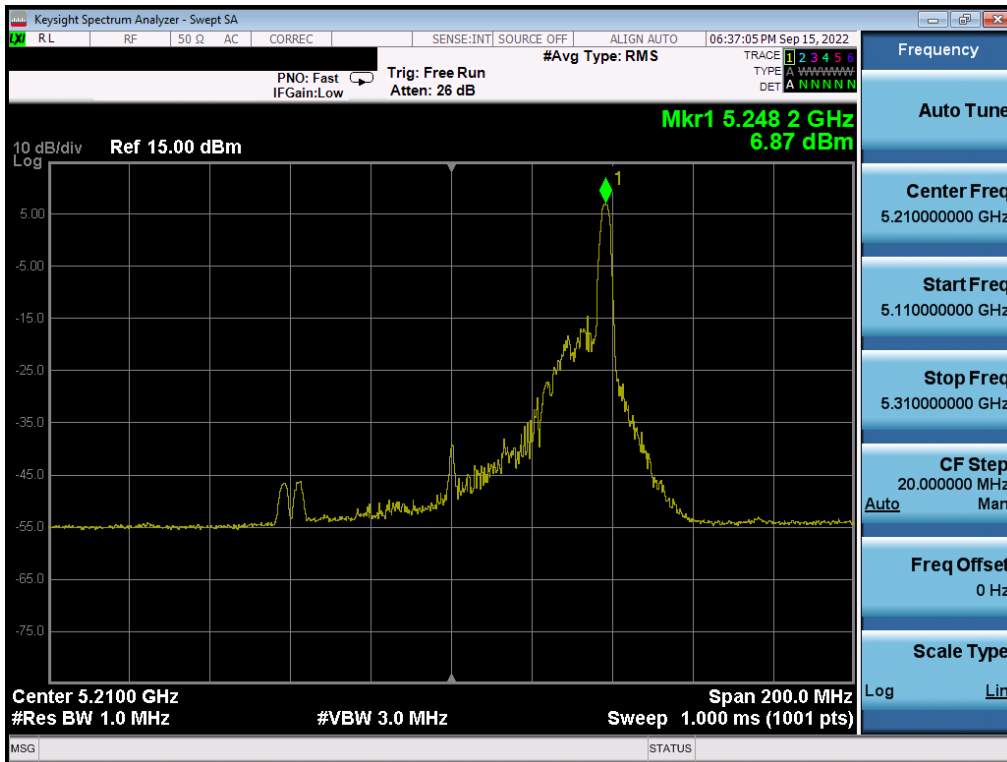


Plot 7-154. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 118 of 231

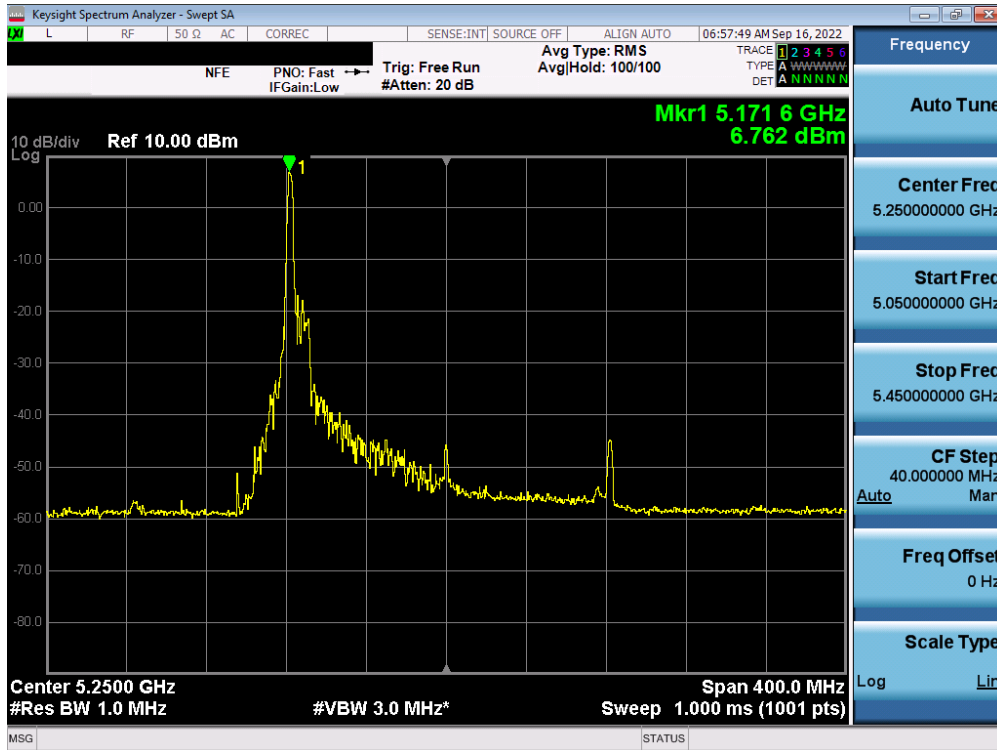


Plot 7-155. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

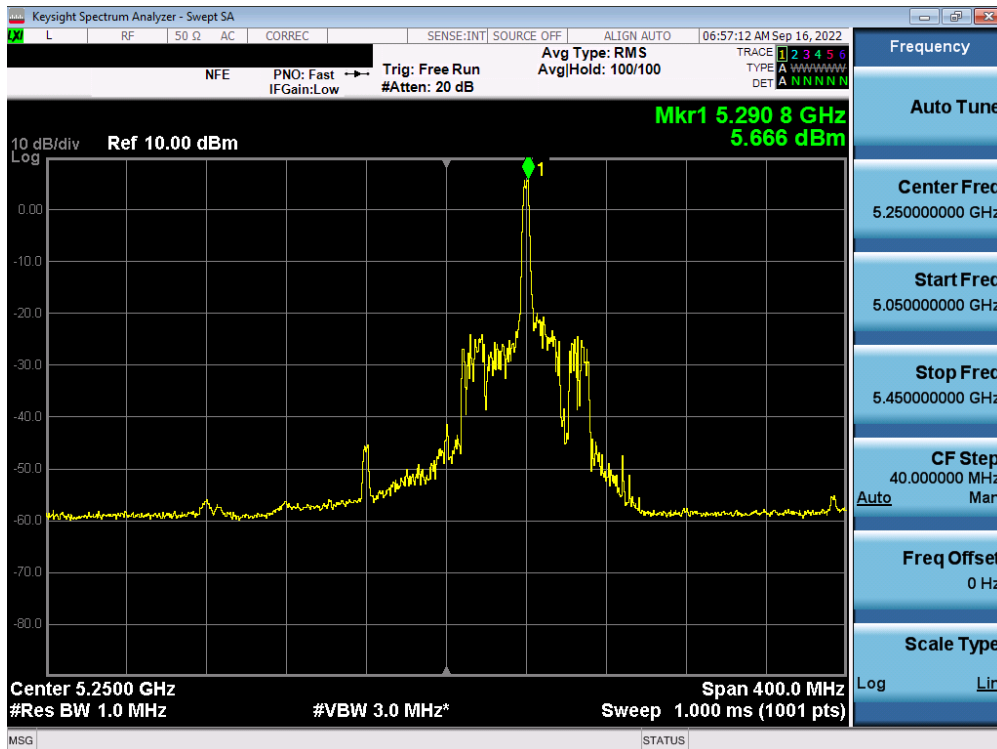


Plot 7-156. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 119 of 231

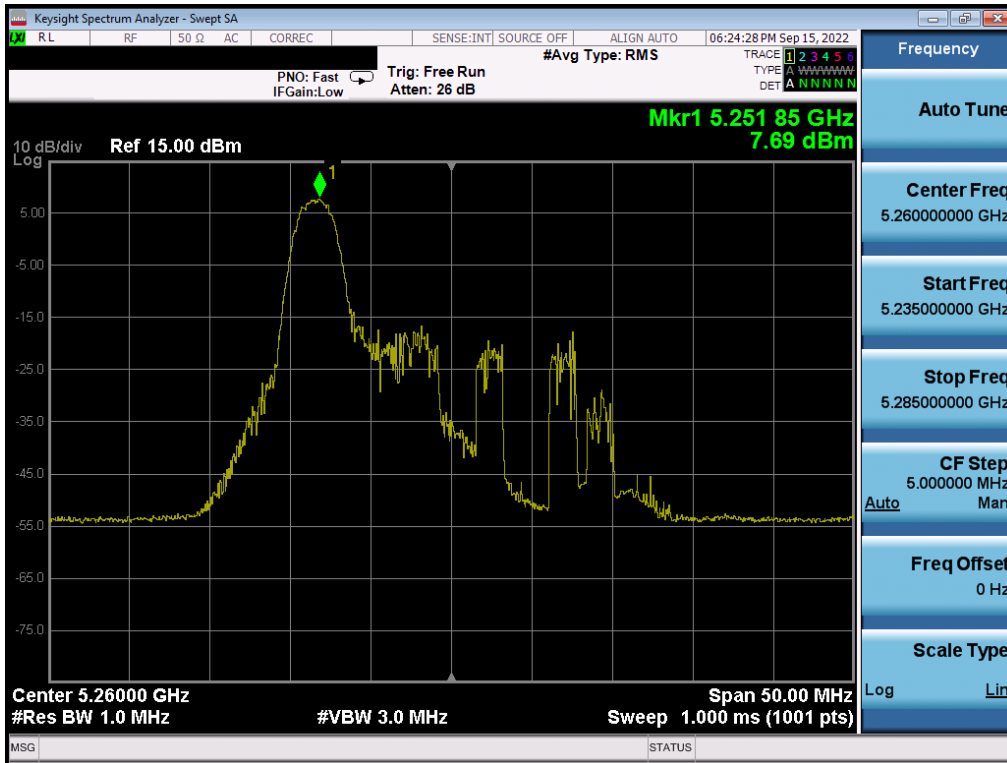


Plot 7-157. Power Spectral Density Plot MIMO ANT1 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)

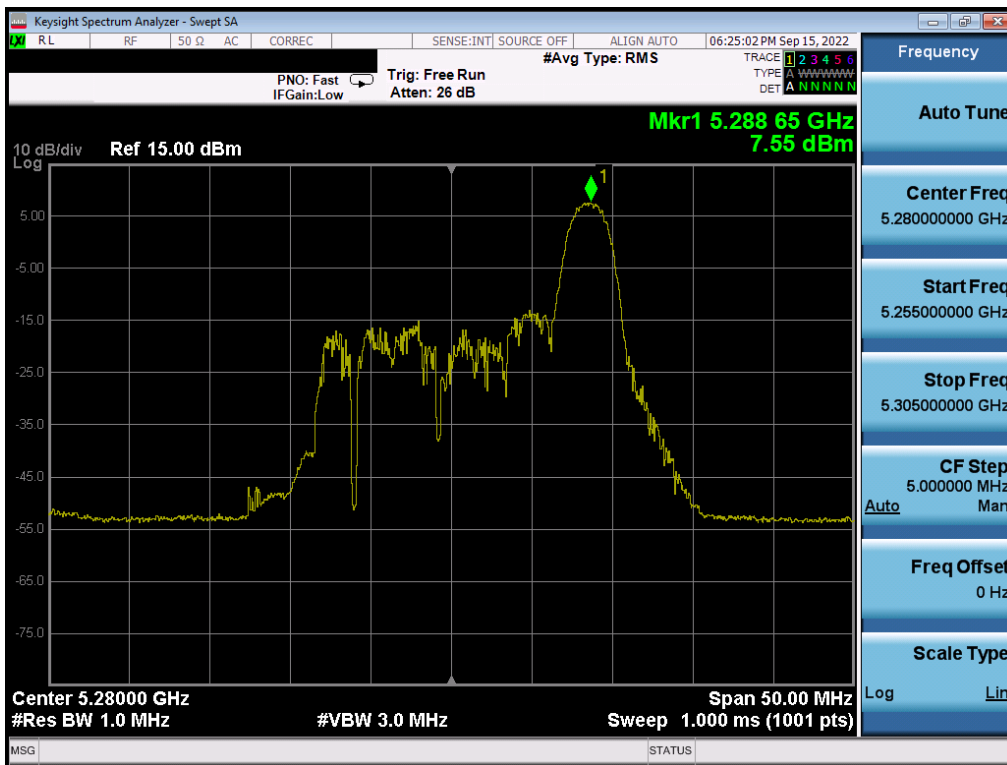


Plot 7-158. Power Spectral Density Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 120 of 231

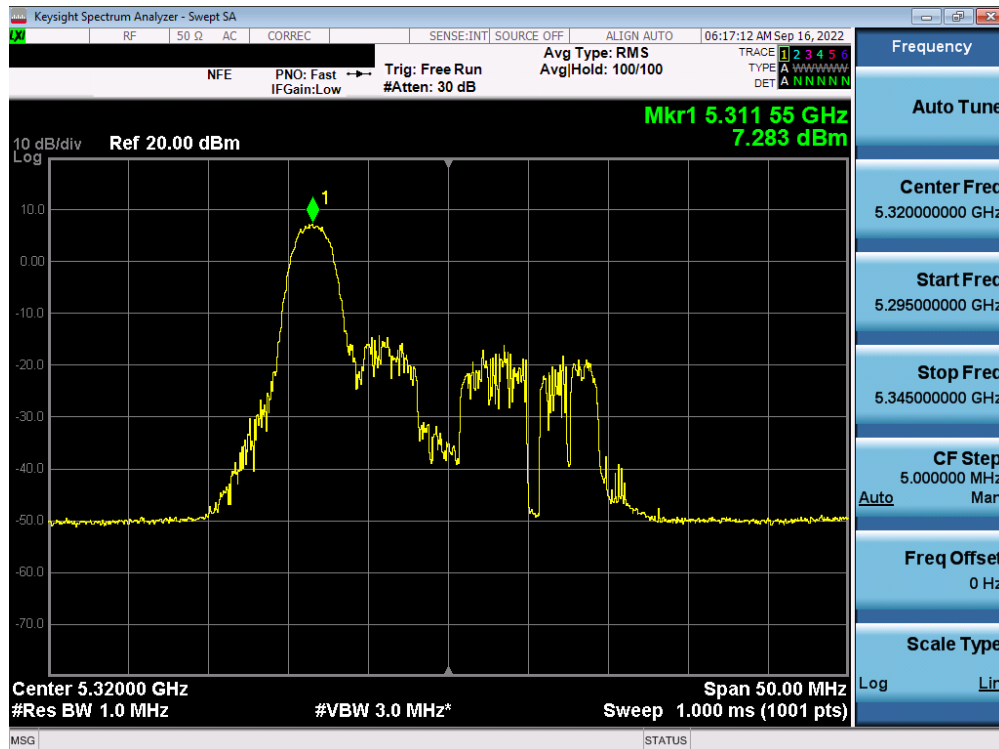


Plot 7-159. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)



Plot 7-160. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 121 of 231

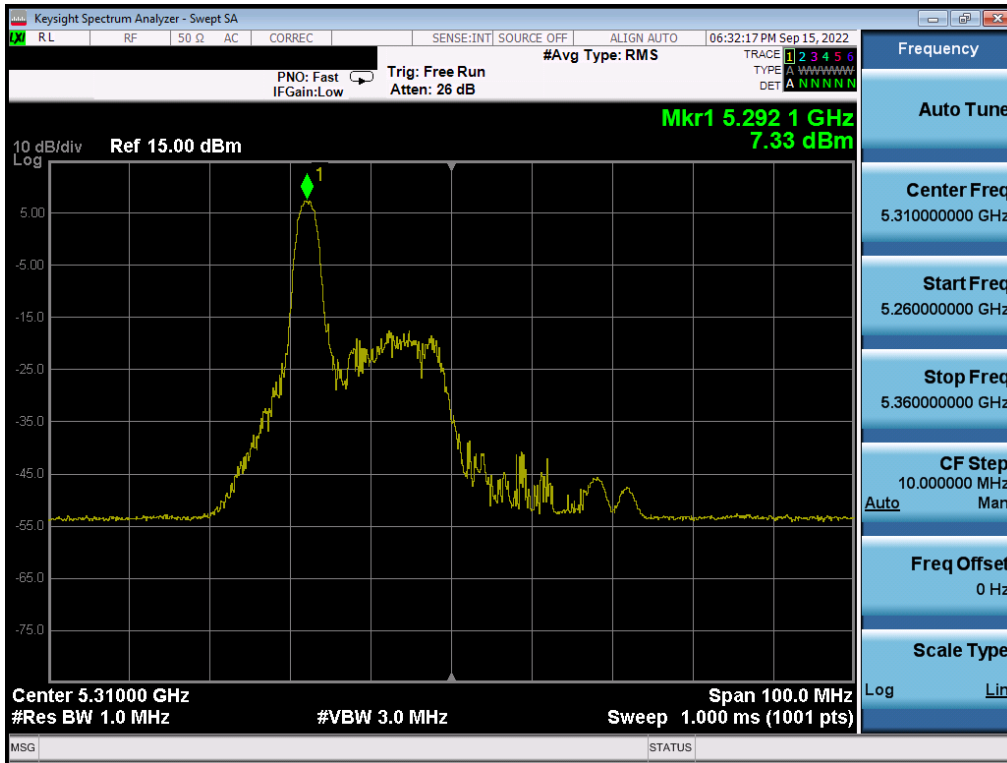


Plot 7-161. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

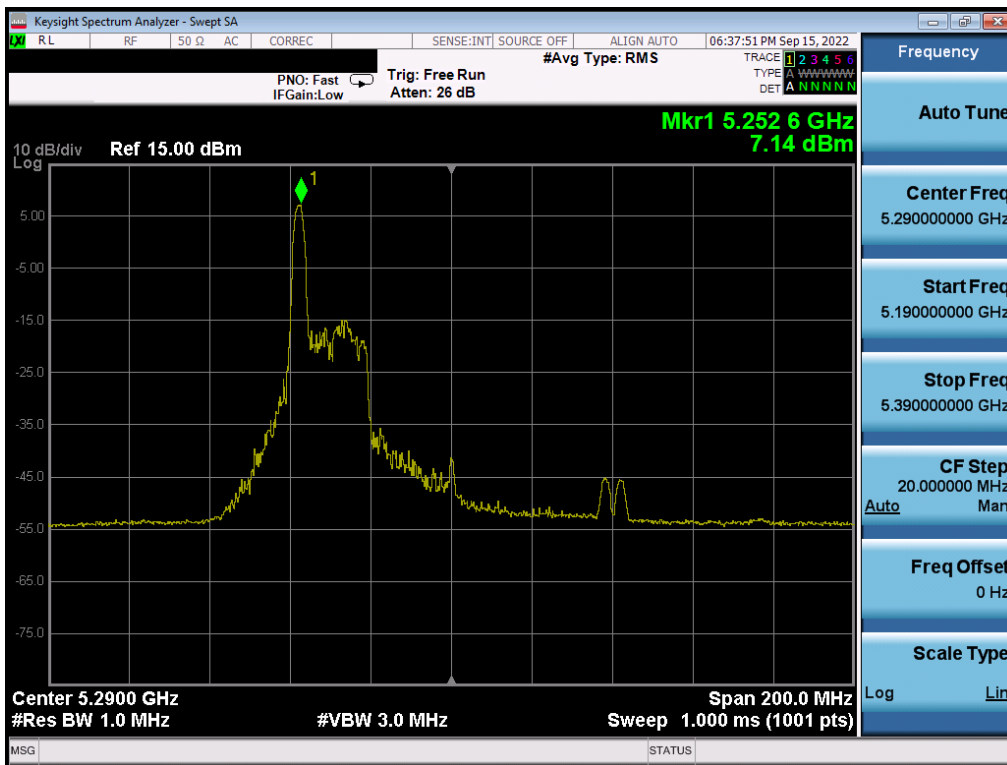


Plot 7-162. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 122 of 231



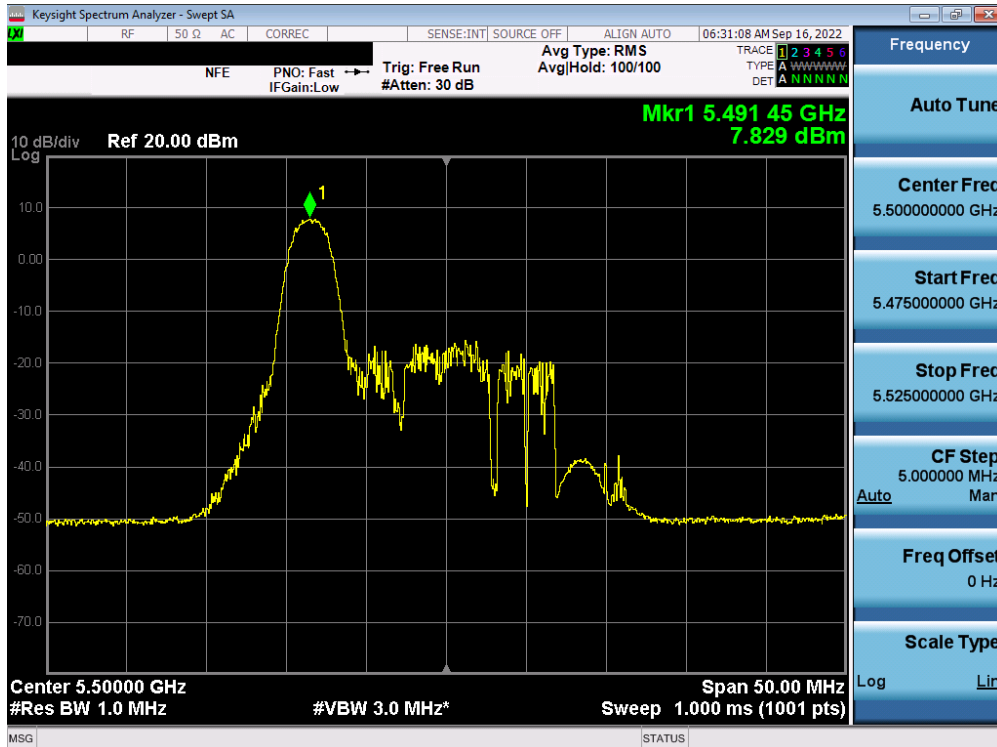
Plot 7-163. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)



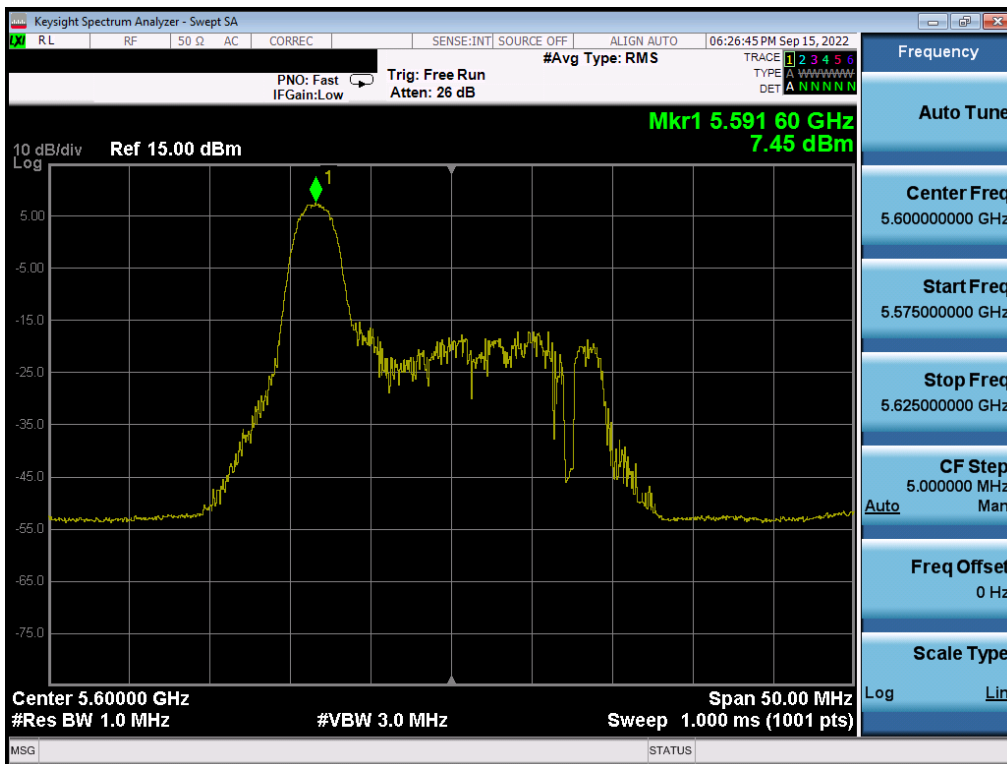
Plot 7-164. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 123 of 231	



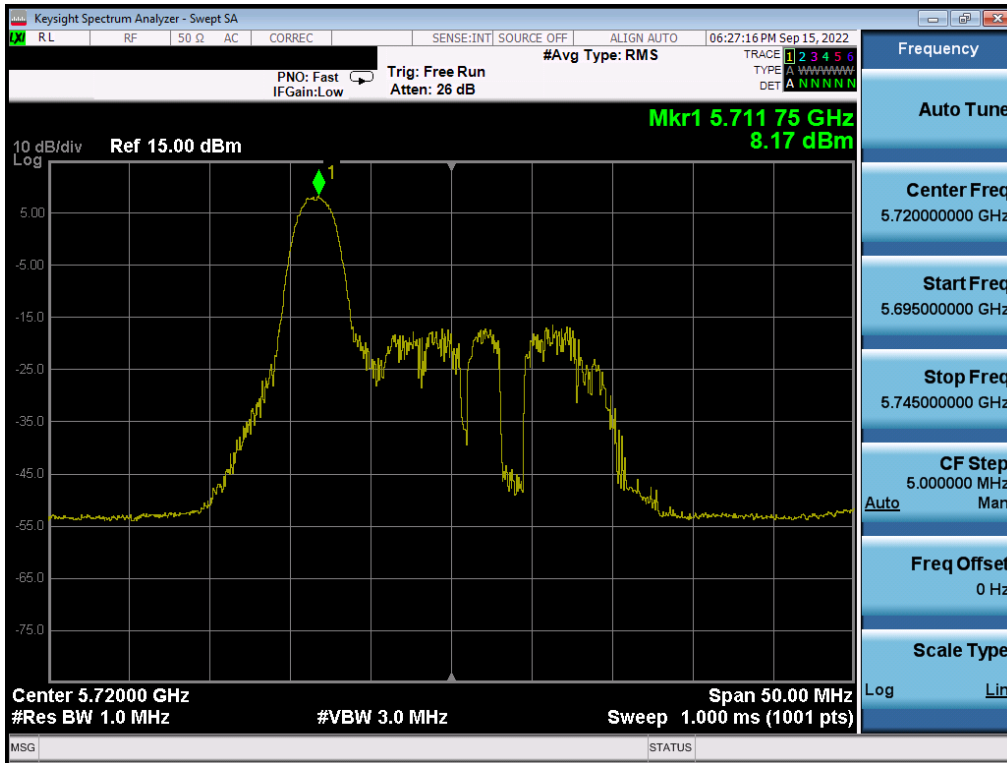


Plot 7-165. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

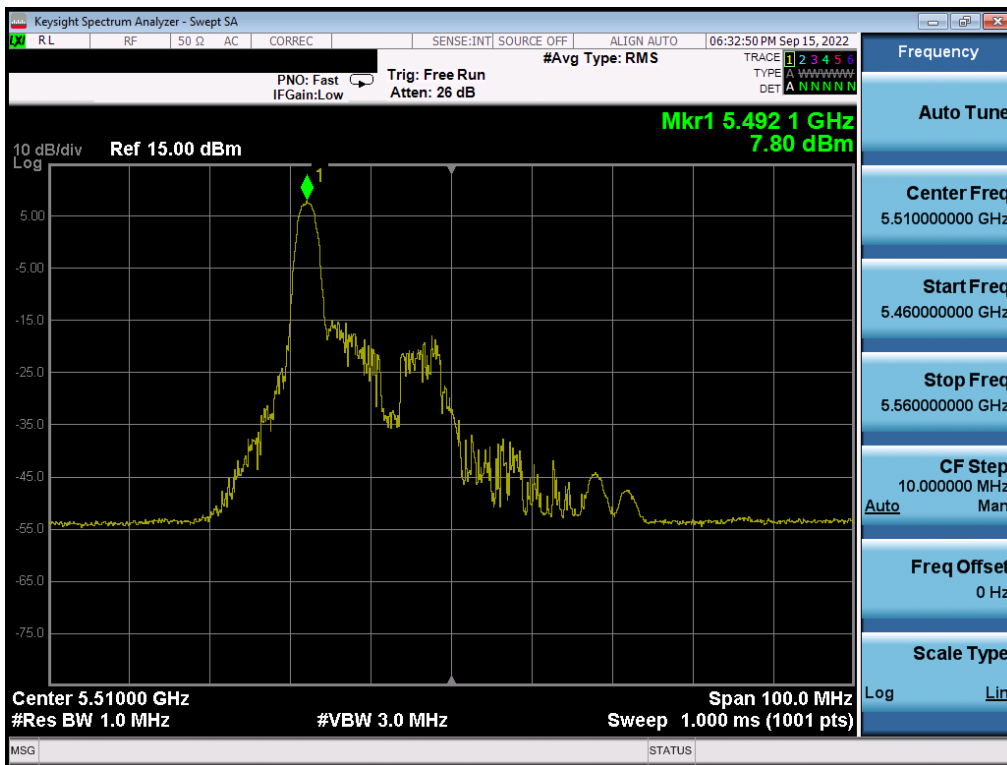


Plot 7-166. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 124 of 231

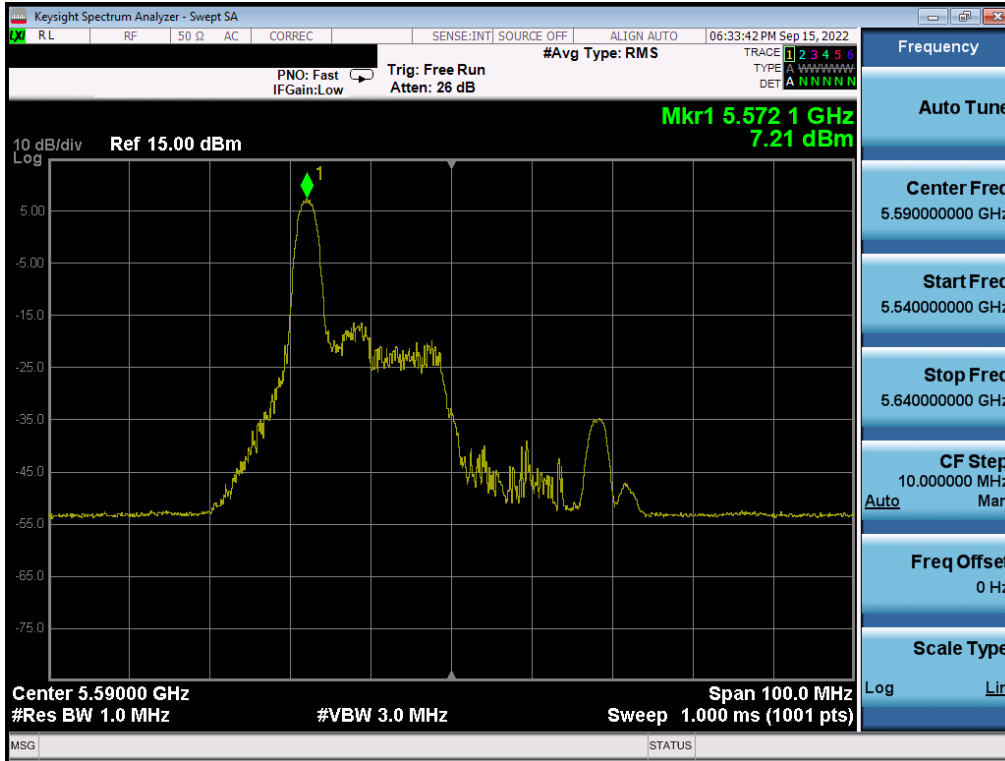


Plot 7-167. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)



Plot 7-168. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 125 of 231	

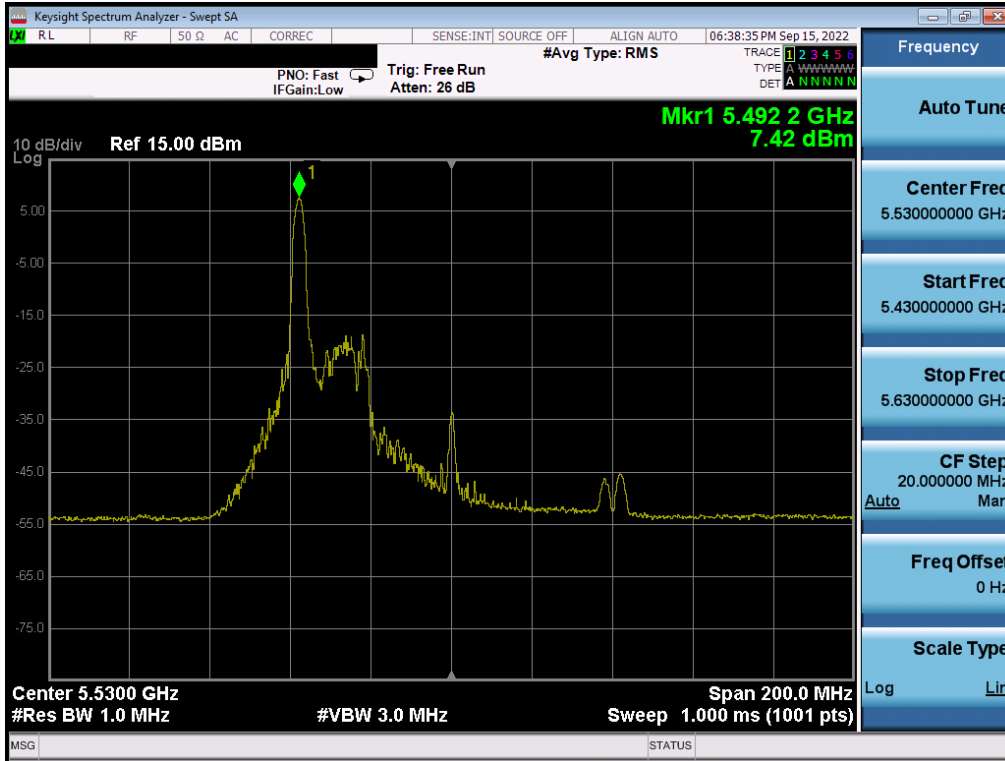


Plot 7-169. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

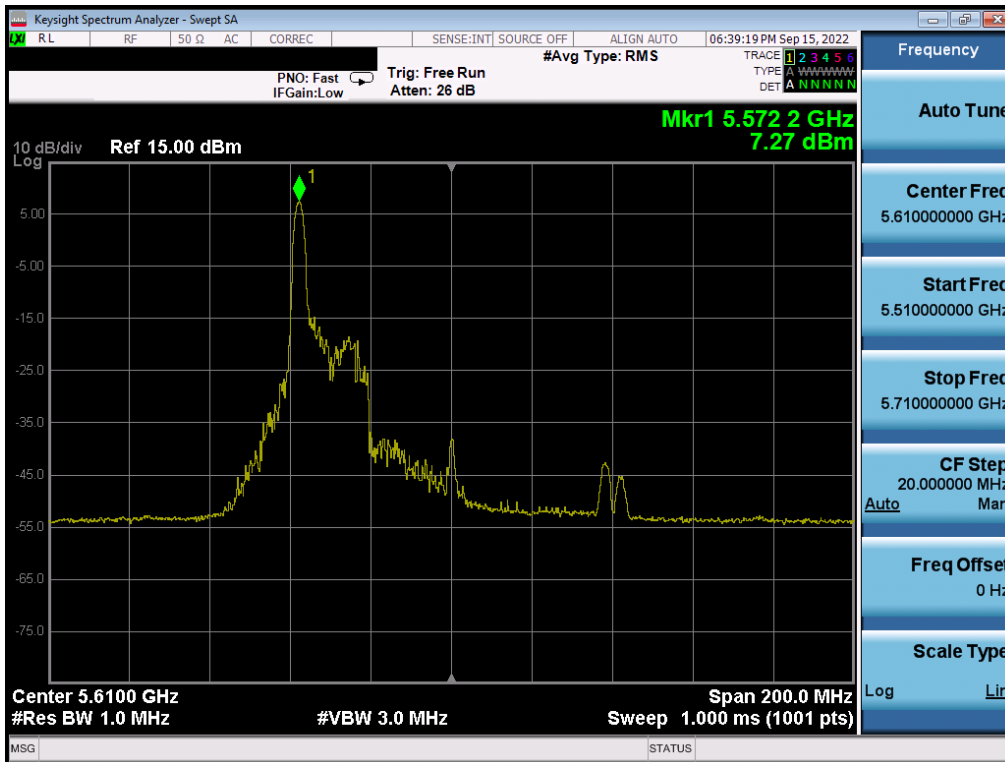


Plot 7-170. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 126 of 231

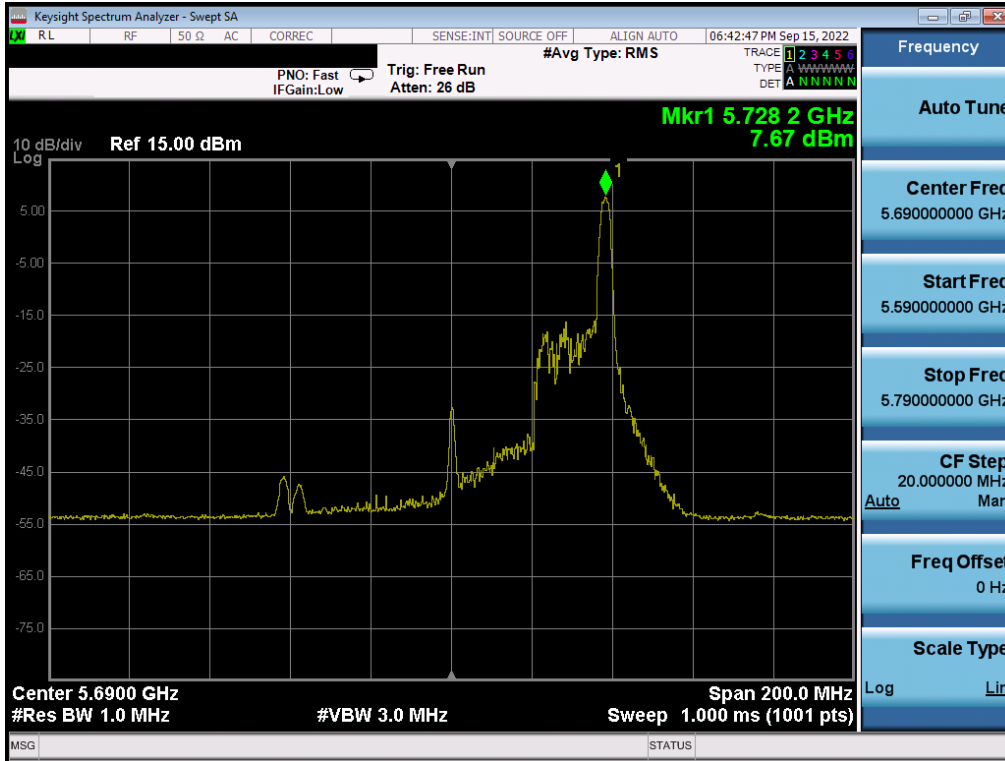


Plot 7-171. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

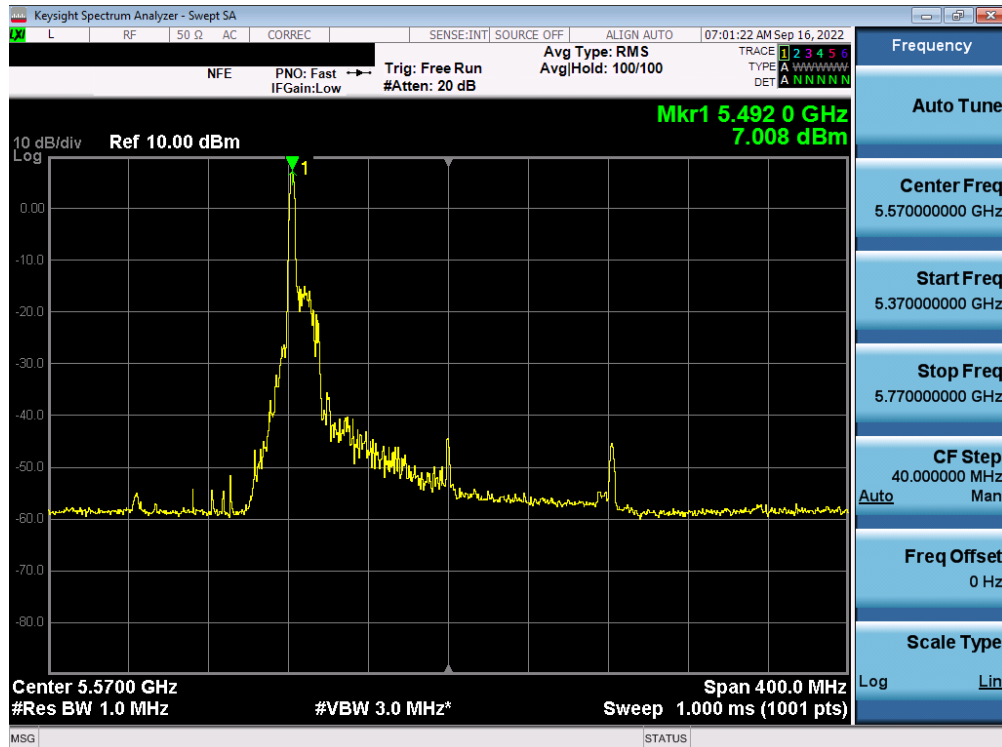


Plot 7-172. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 127 of 231

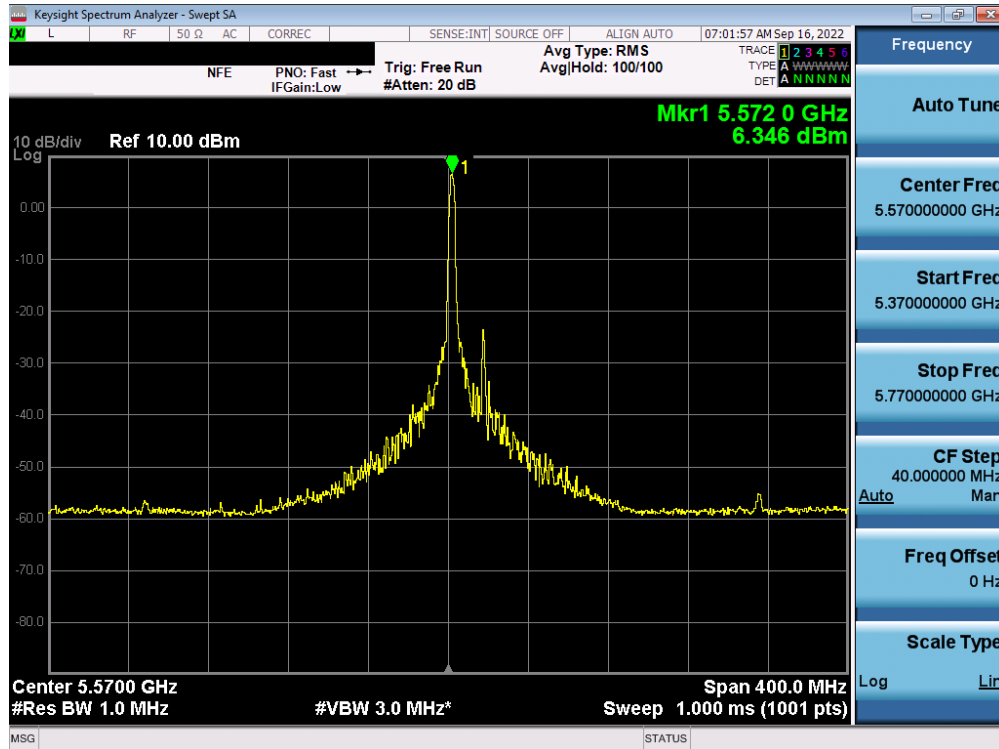


Plot 7-173. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

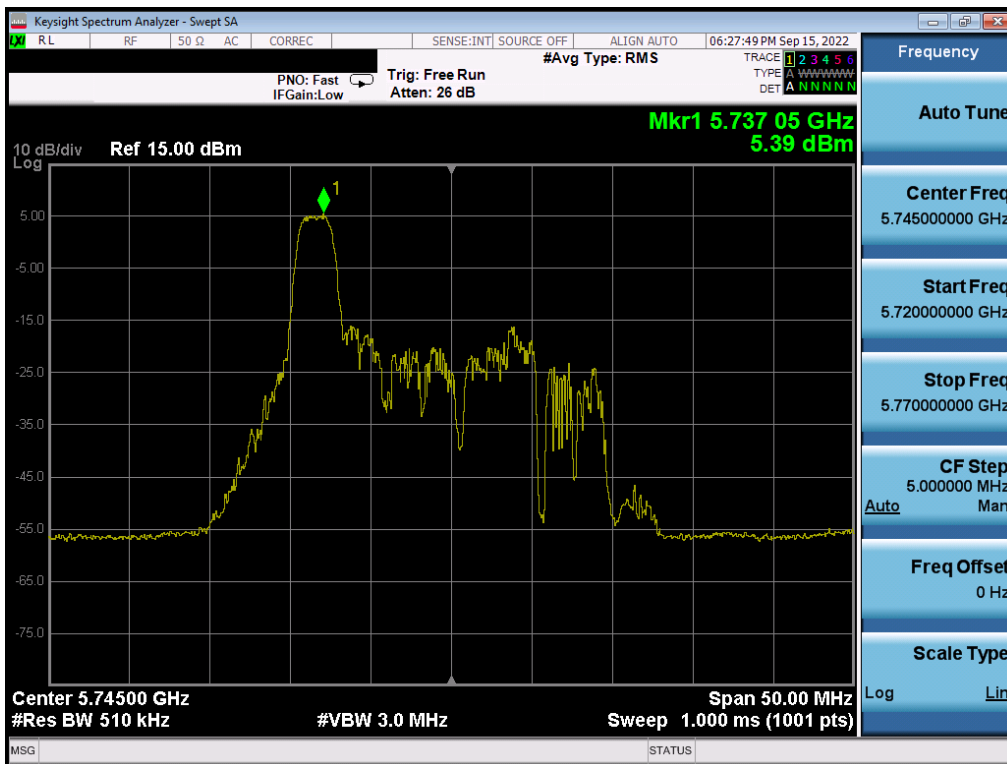


Plot 7-174. Power Spectral Density Plot MIMO ANT1 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 128 of 231

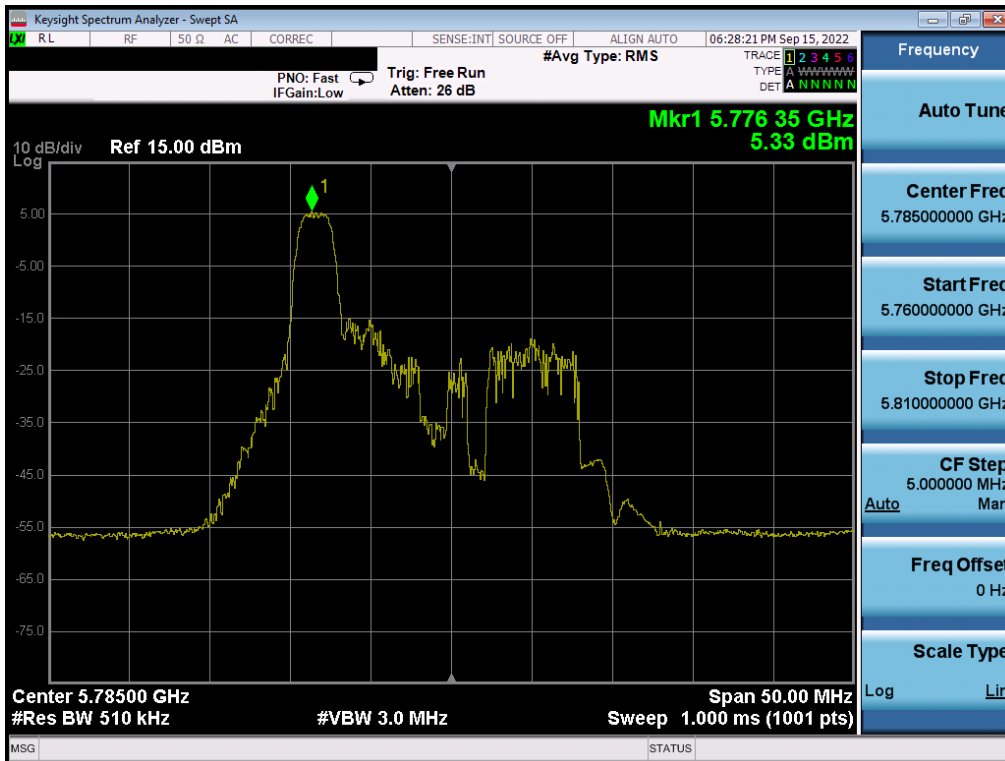


Plot 7-175. Power Spectral Density Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

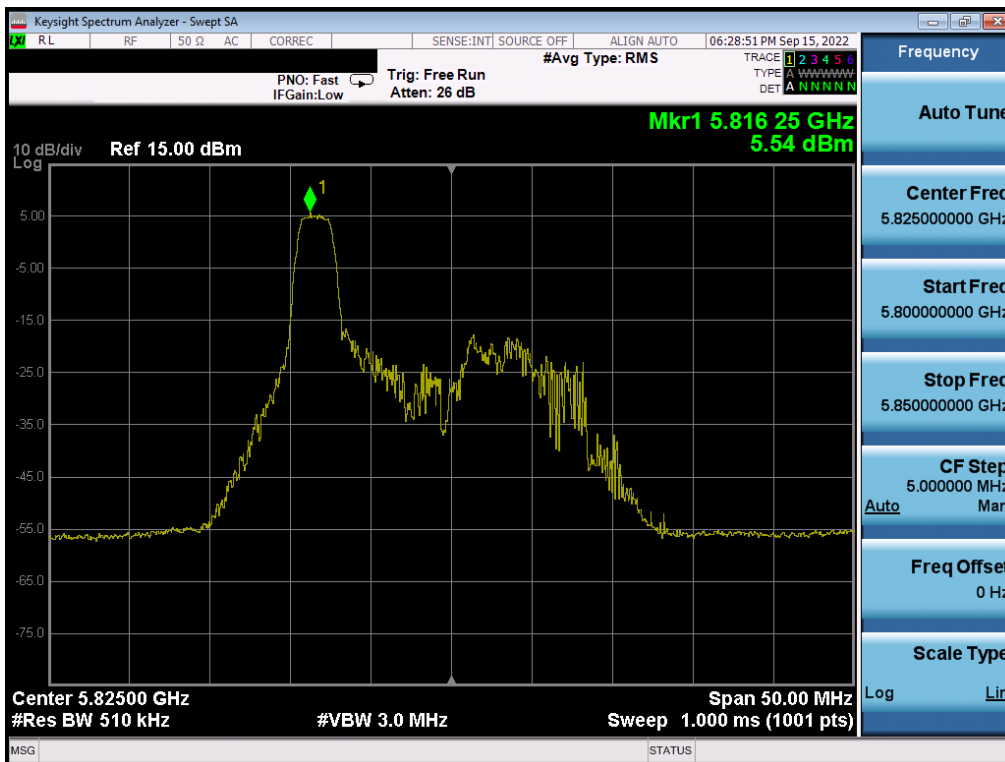


Plot 7-176. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMS918JPN	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 129 of 231

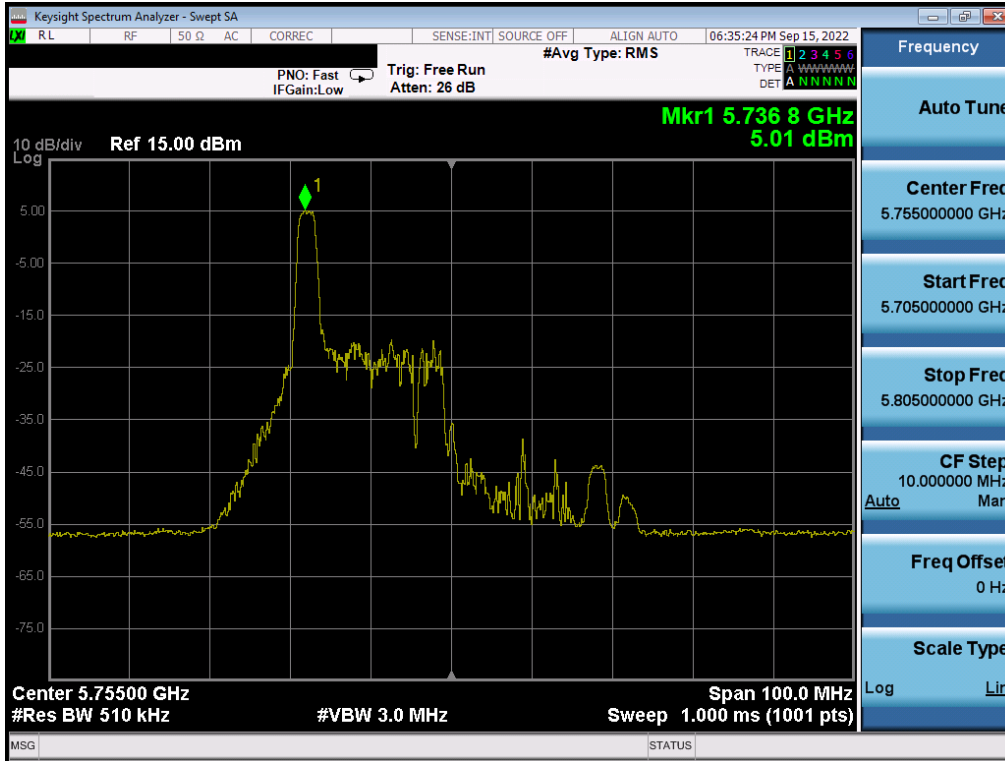


Plot 7-177. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



Plot 7-178. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 130 of 231



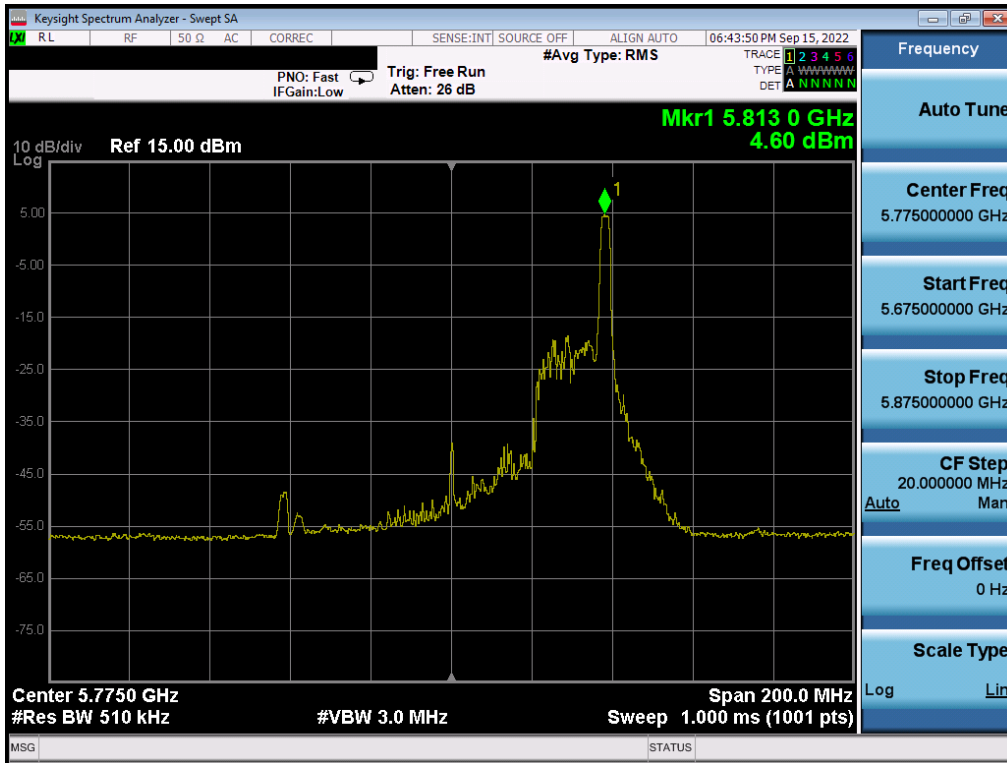
Plot 7-179. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



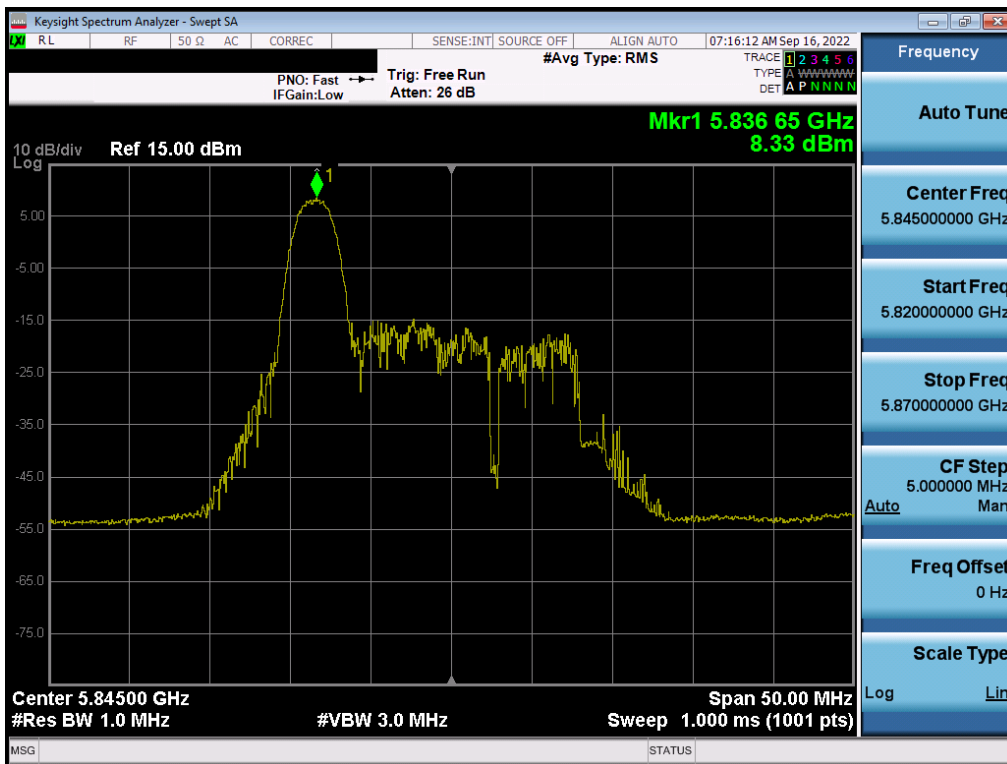
Plot 7-180. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 131 of 231



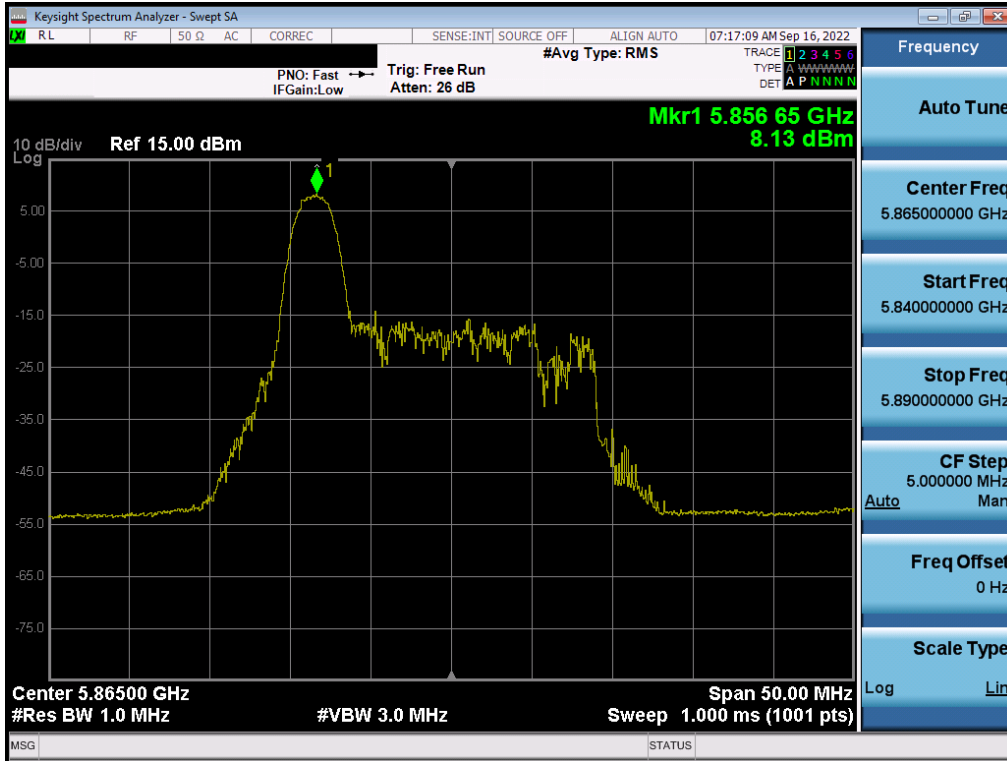


Plot 7-181. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

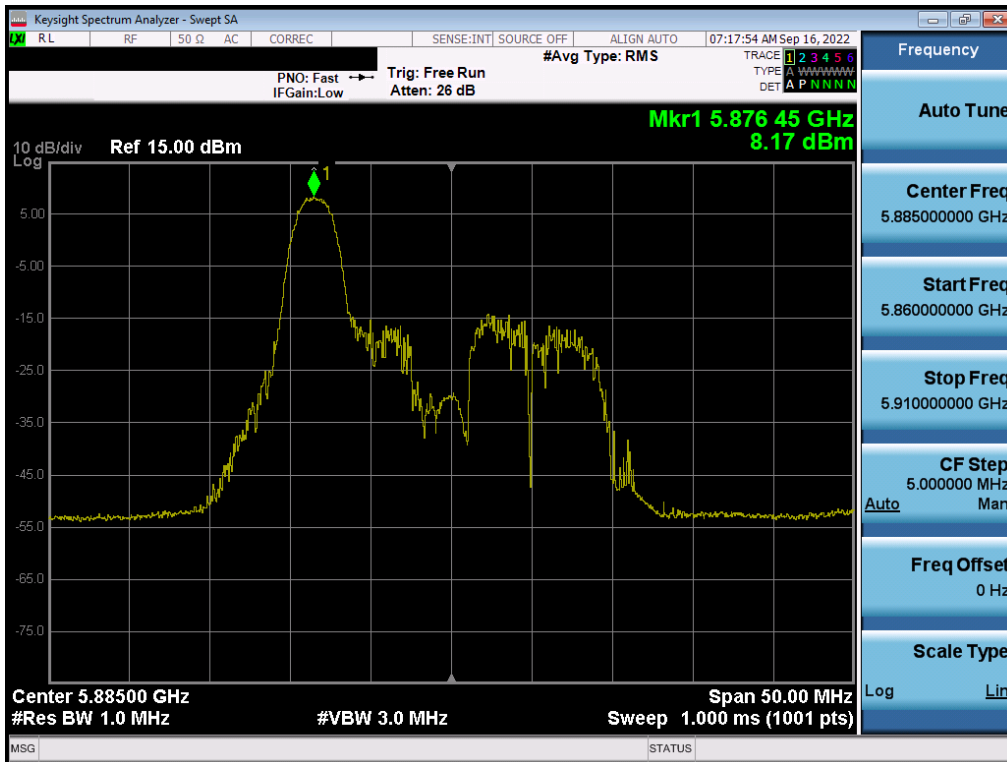


Plot 7-182. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 169)

FCC ID: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset		Page 132 of 231



Plot 7-183. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 173)



Plot 7-184. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 177)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 133 of 231

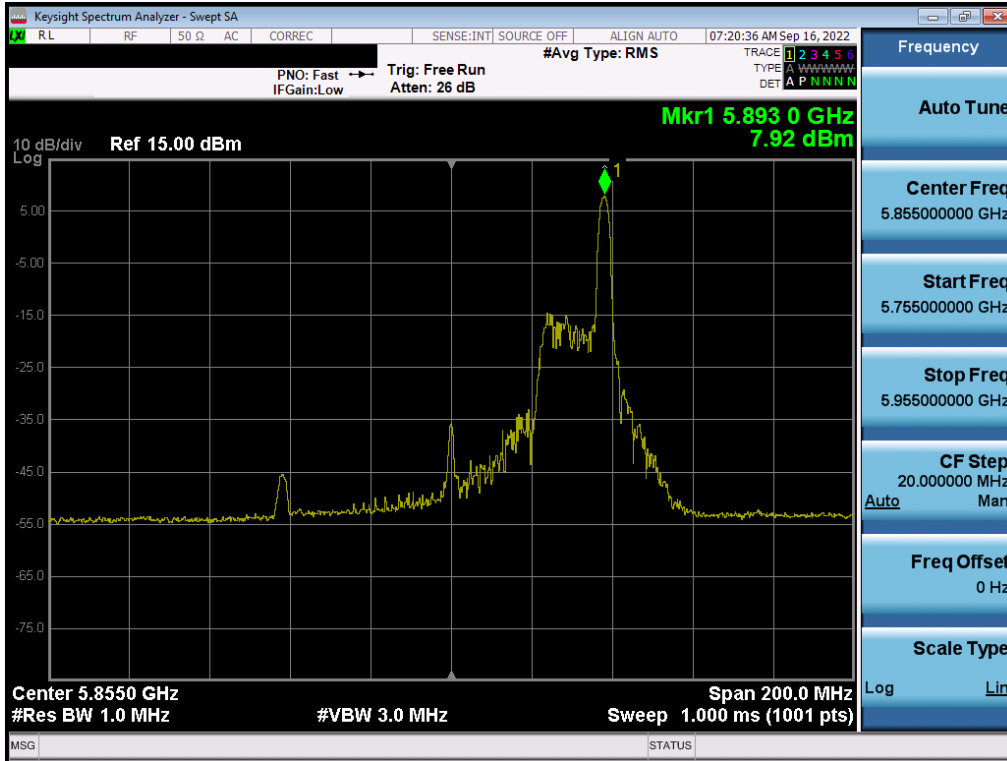


Plot 7-185. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)

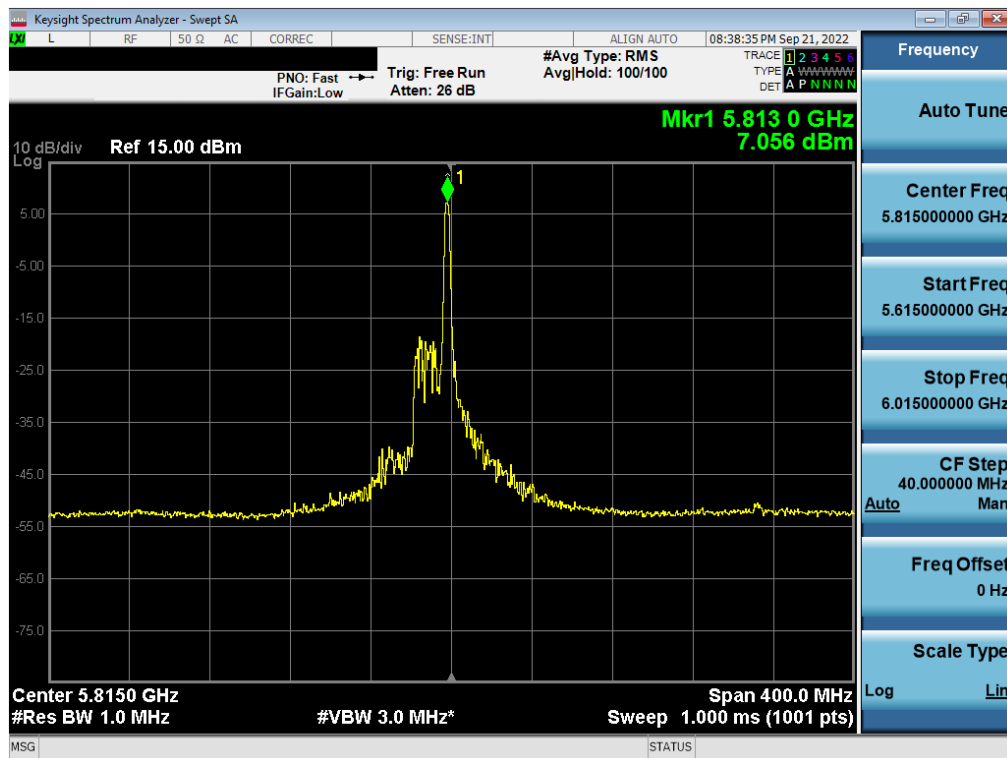


Plot 7-186. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 175)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 134 of 231

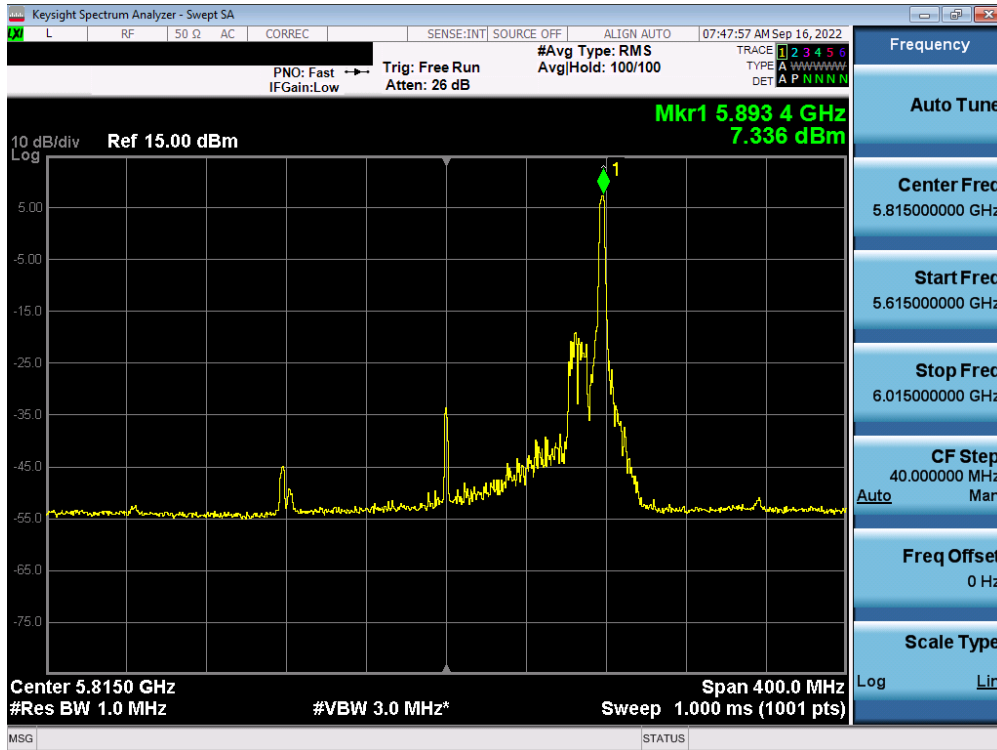


Plot 7-187. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)

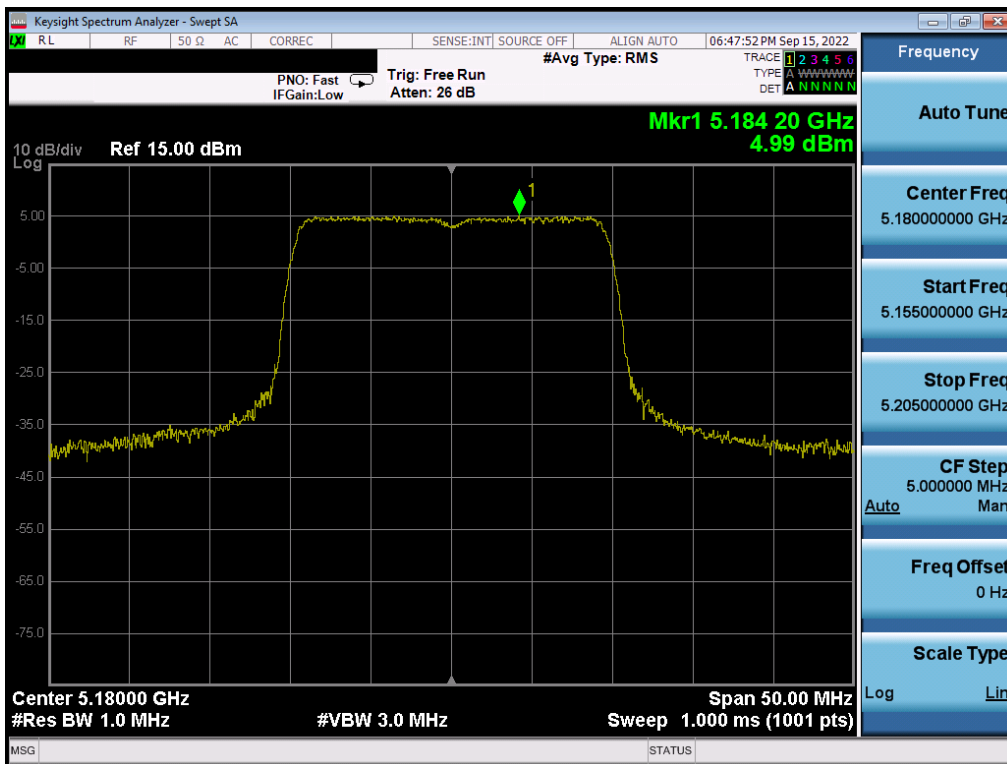


Plot 7-188. Power Spectral Density Plot MIMO ANT1 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 135 of 231

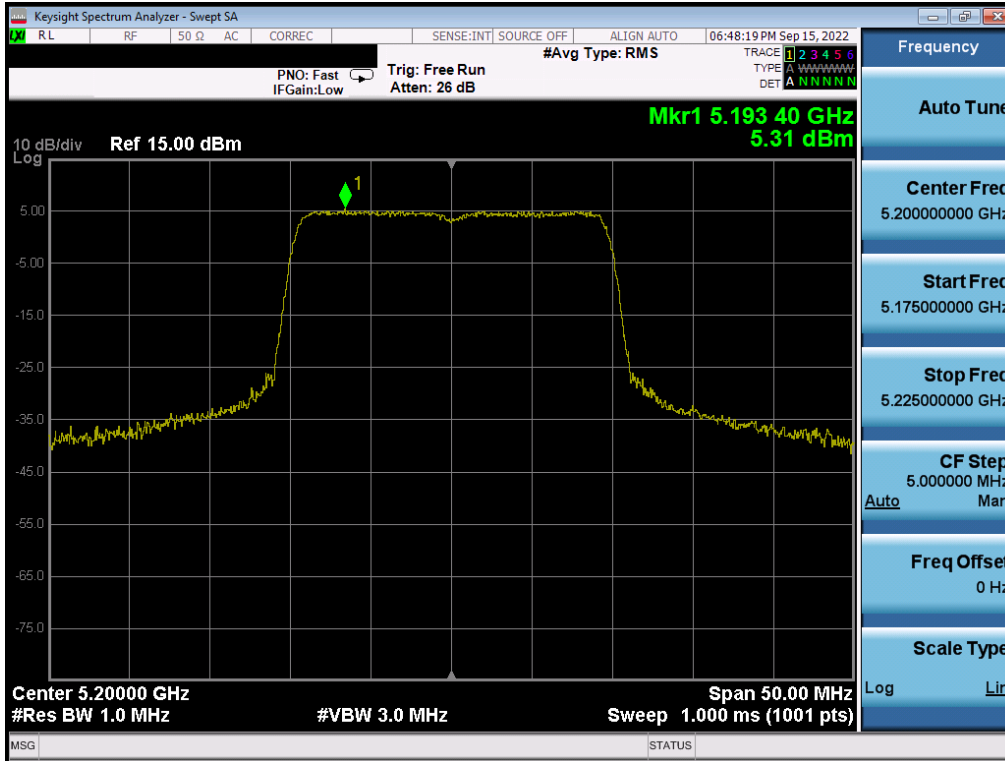


Plot 7-189. Power Spectral Density Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)

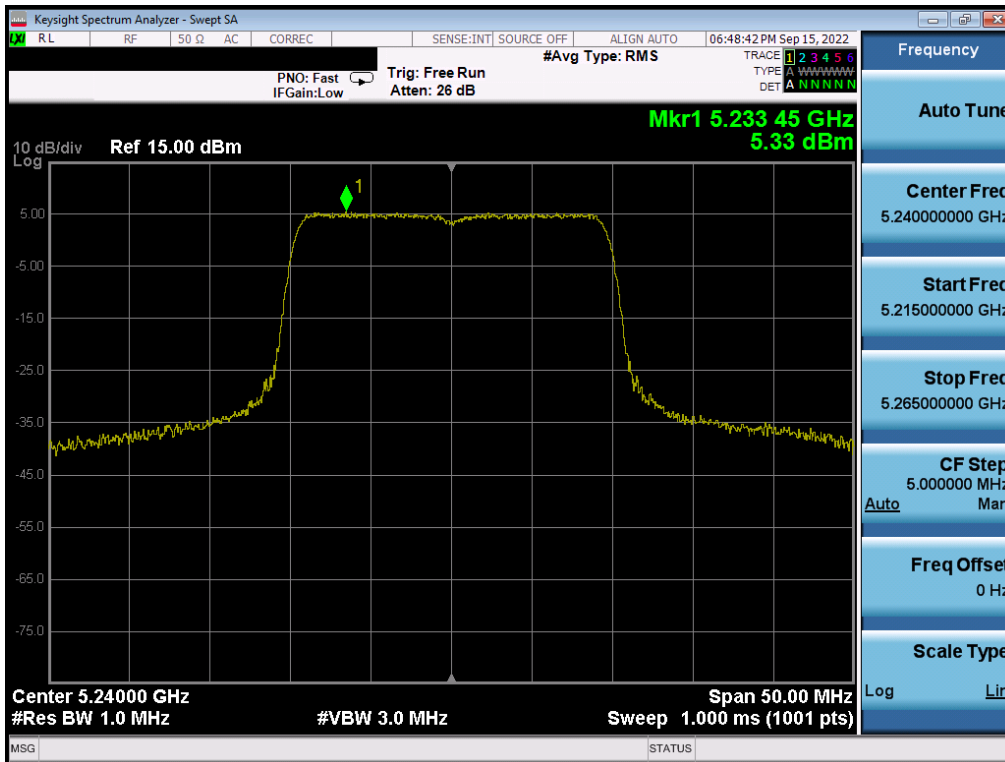


Plot 7-190. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 136 of 231

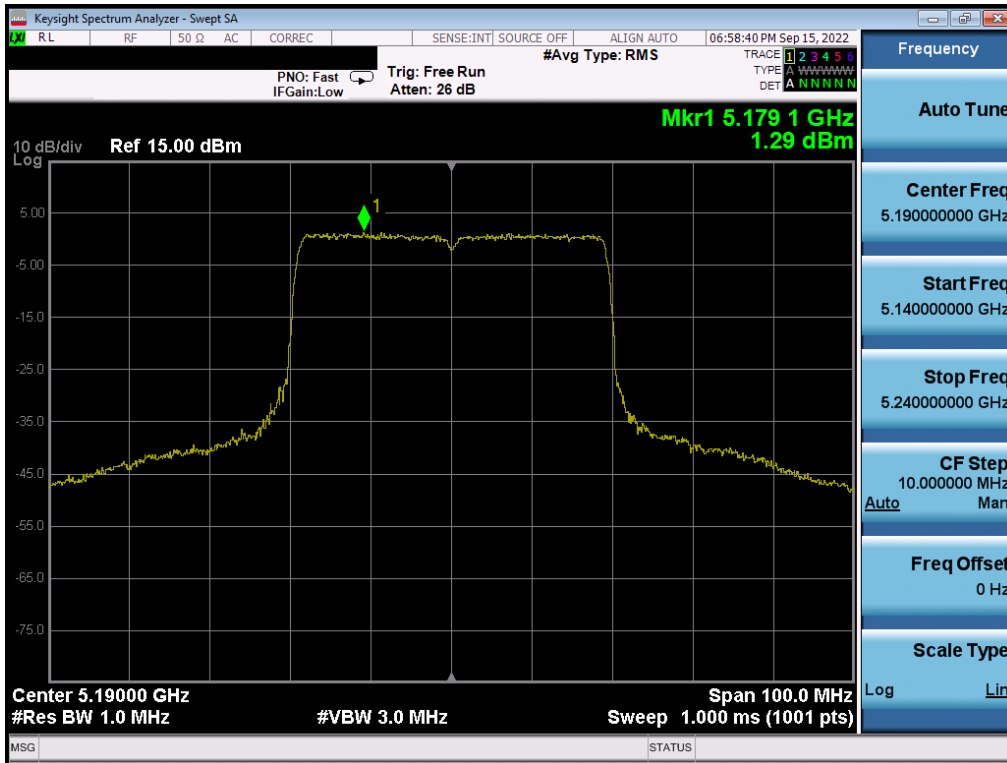


Plot 7-191. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

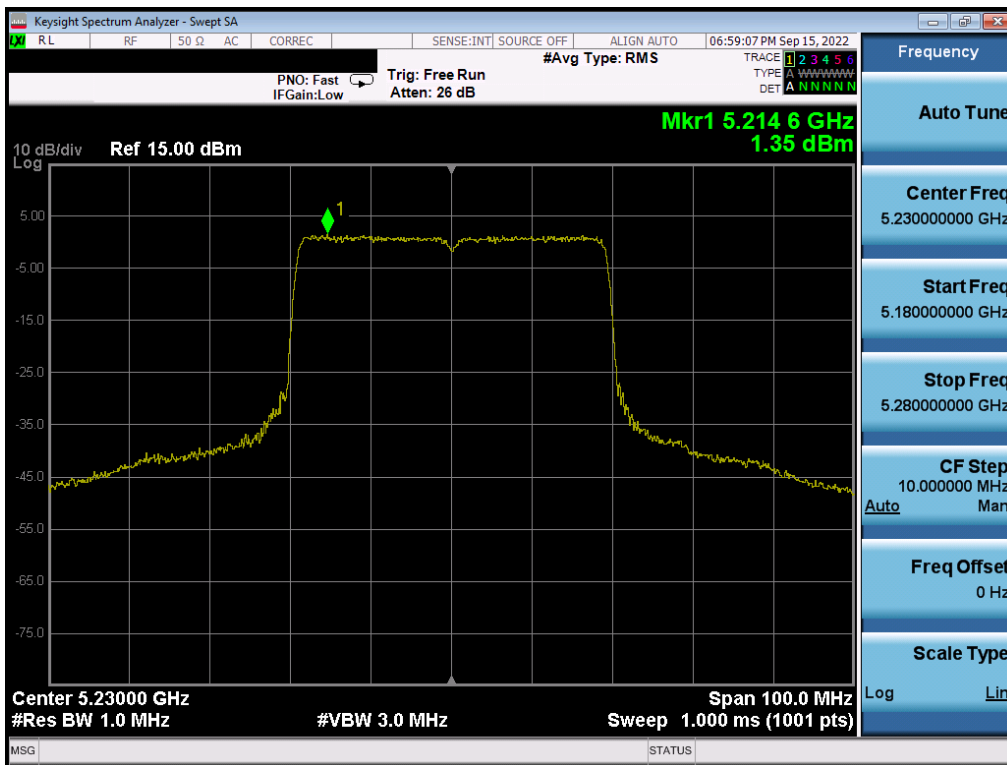


Plot 7-192. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 137 of 231

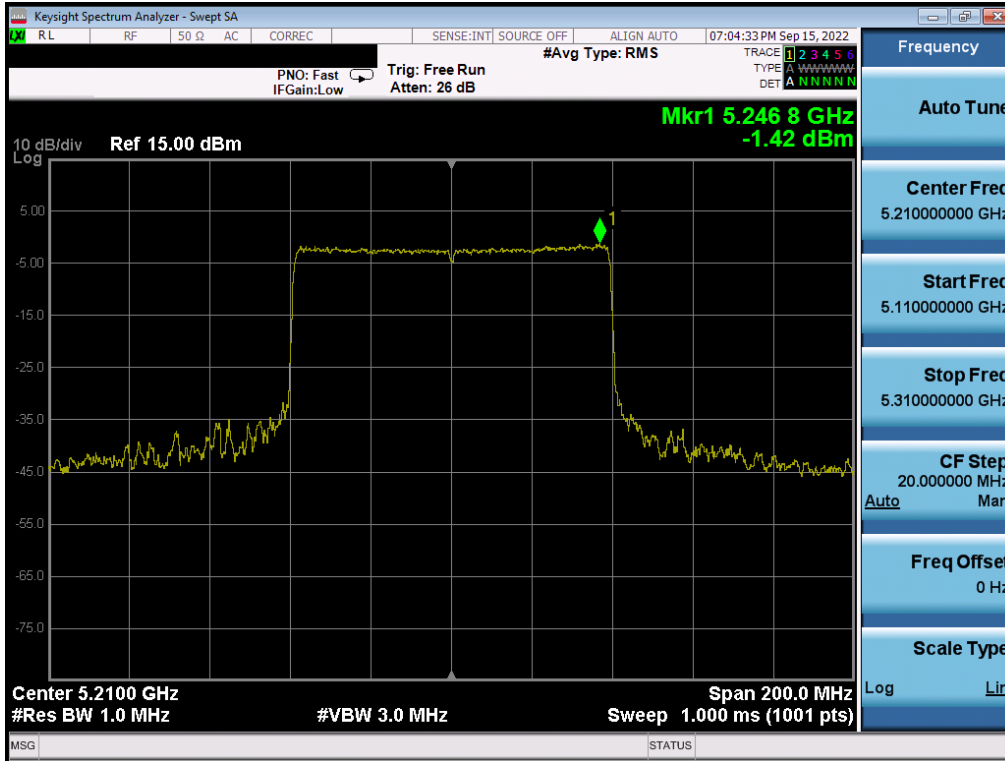


Plot 7-193. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

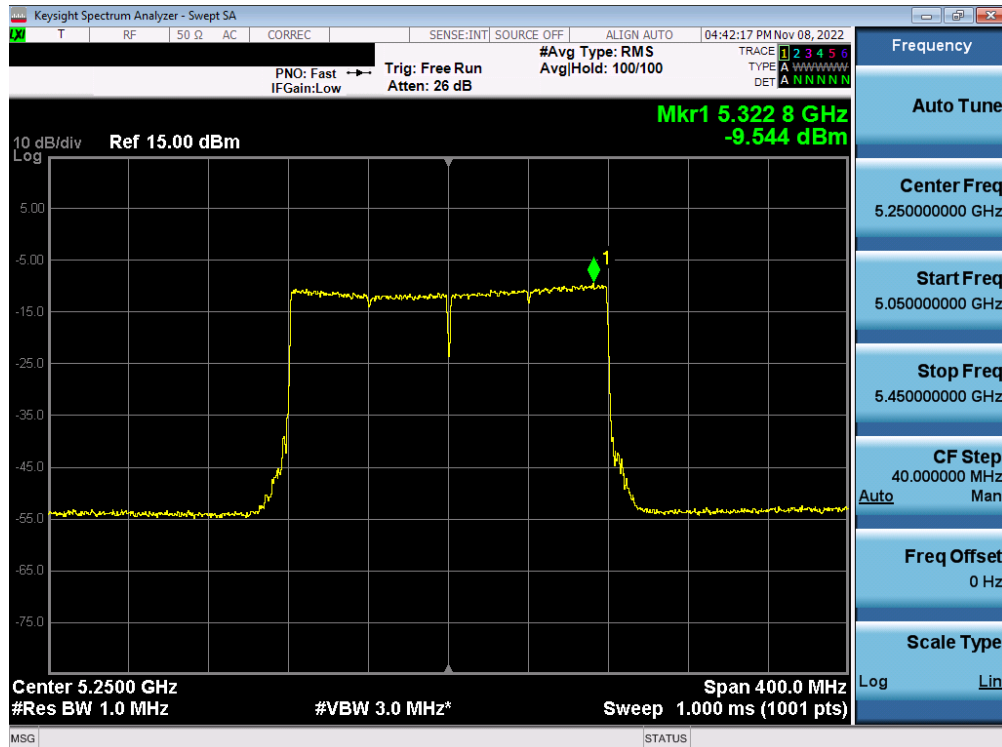


Plot 7-194. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 138 of 231



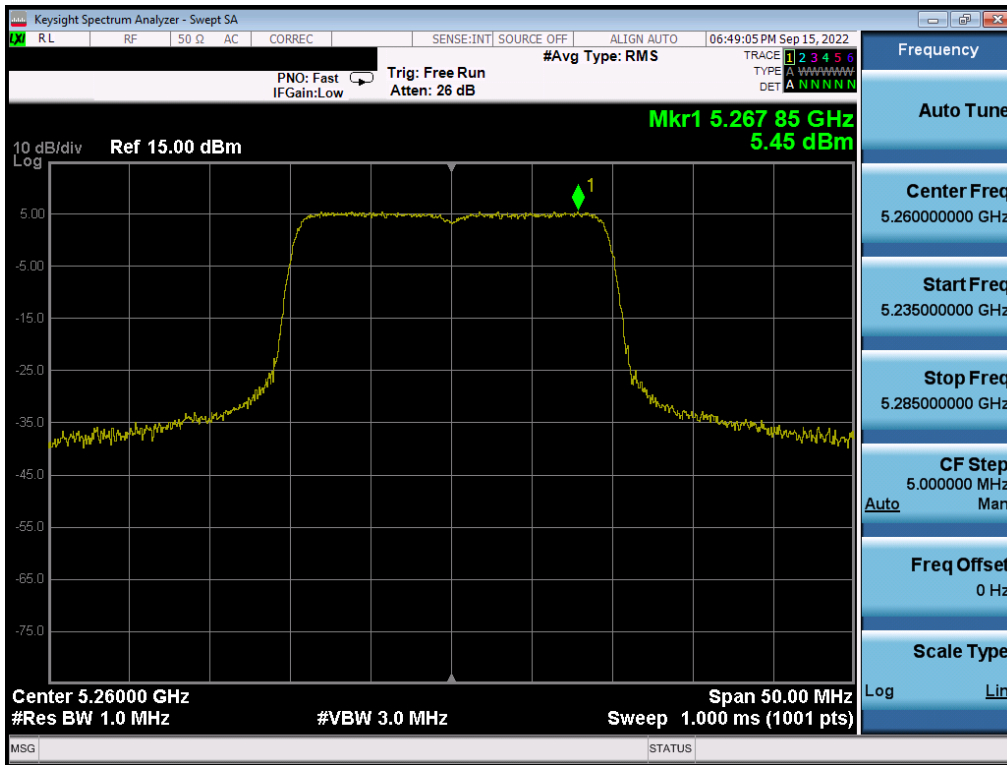
Plot 7-195. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)



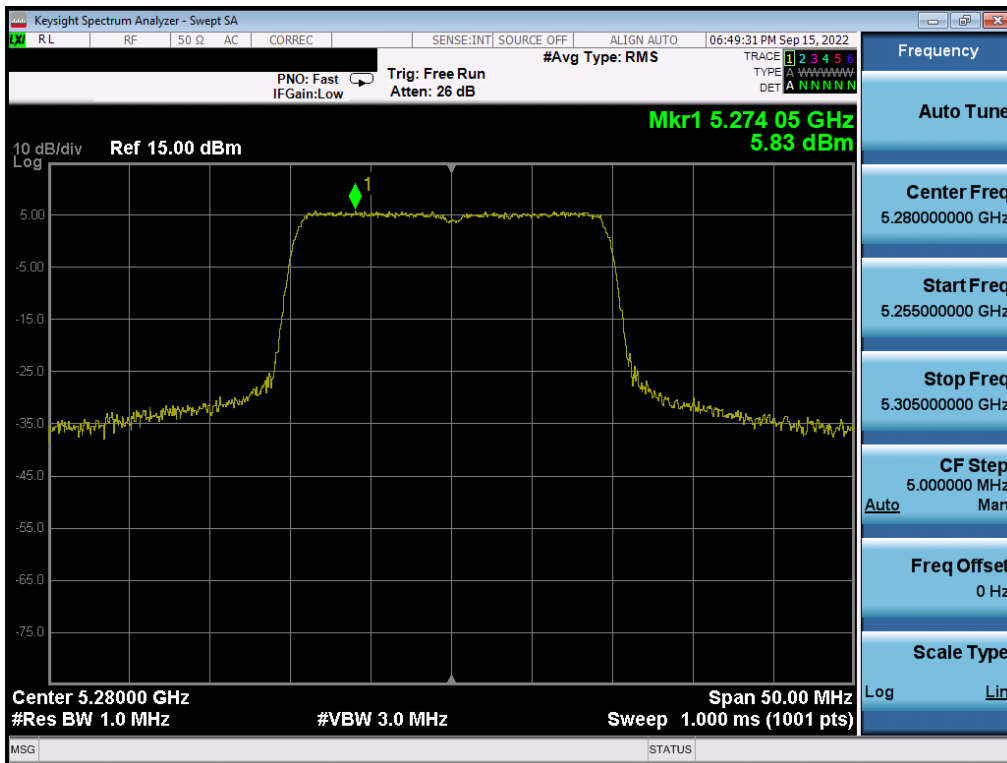
Plot 7-196. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax – Full Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 139 of 231



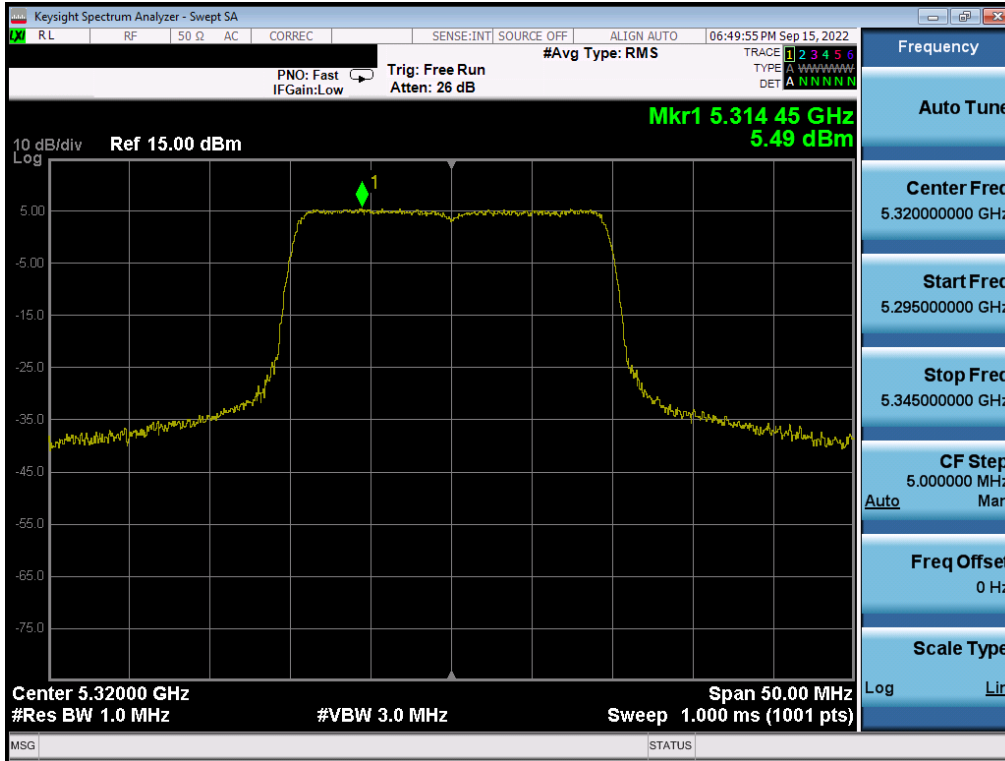


Plot 7-197. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

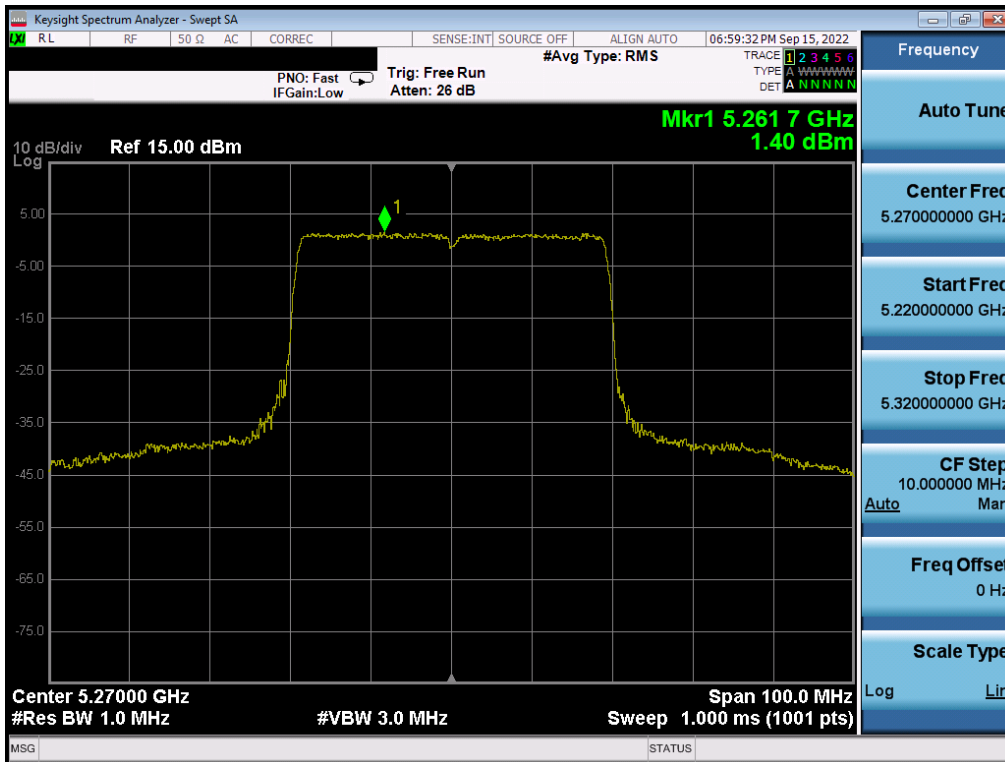


Plot 7-198. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 140 of 231

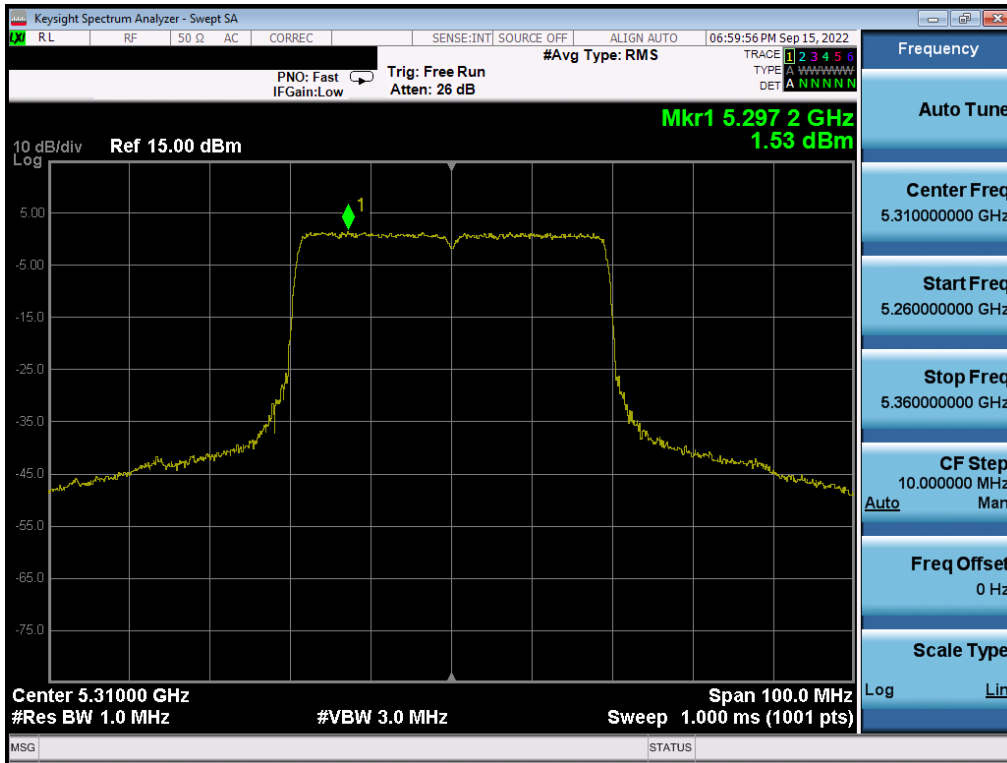


Plot 7-199. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

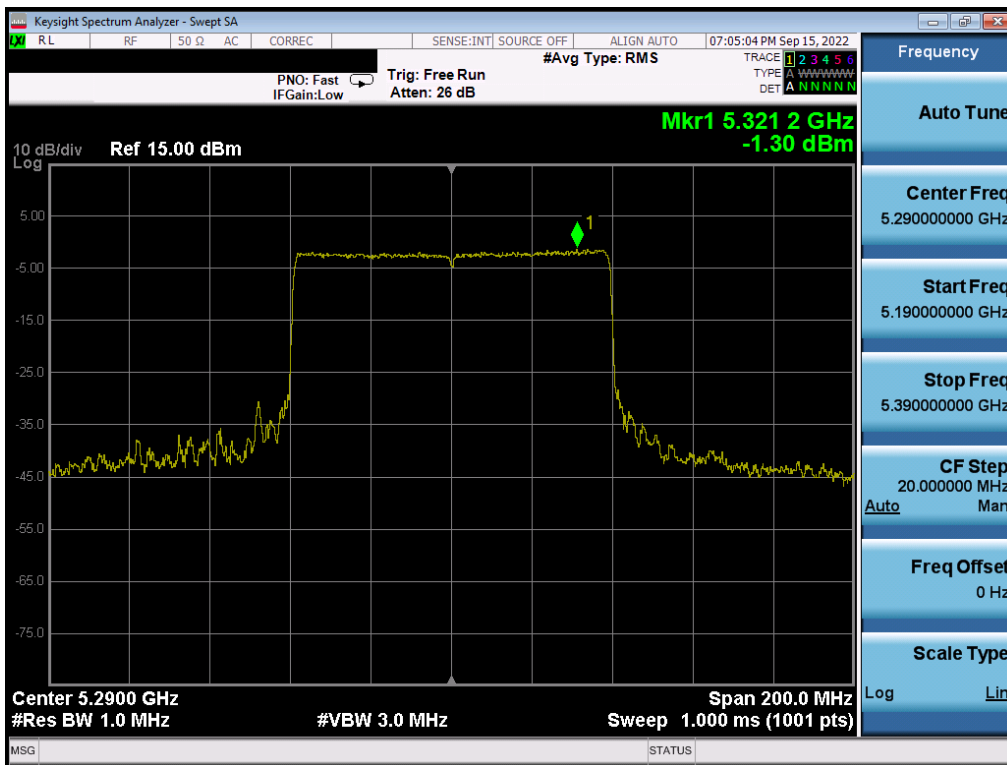


Plot 7-200. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 141 of 231

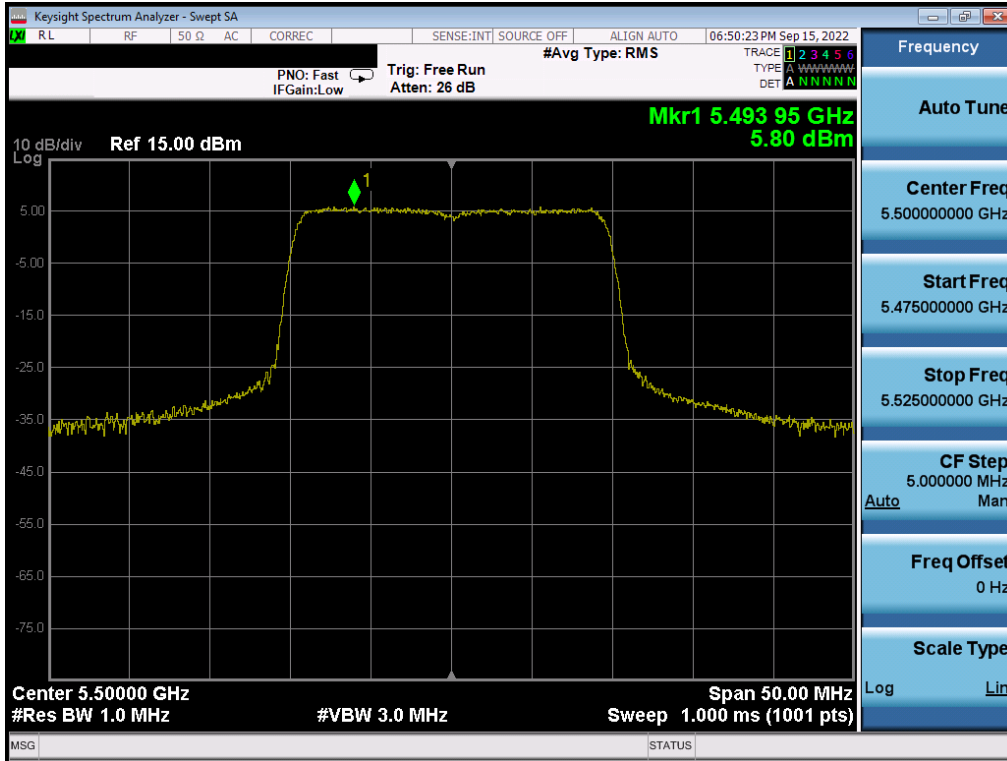


Plot 7-201. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

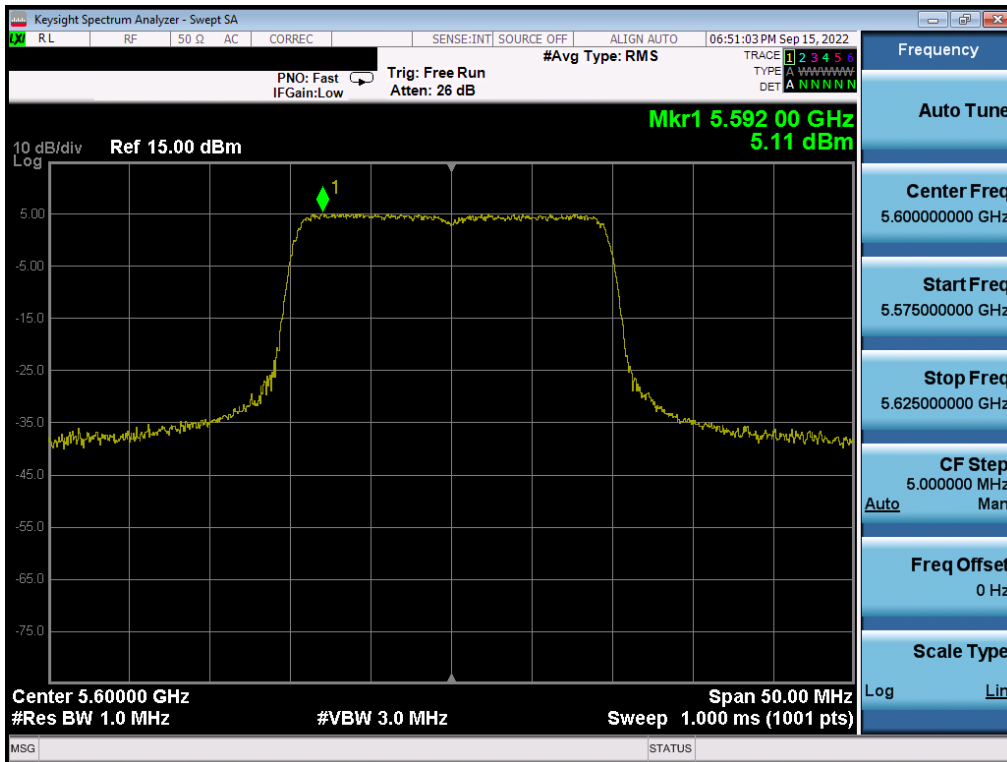


Plot 7-202. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 142 of 231

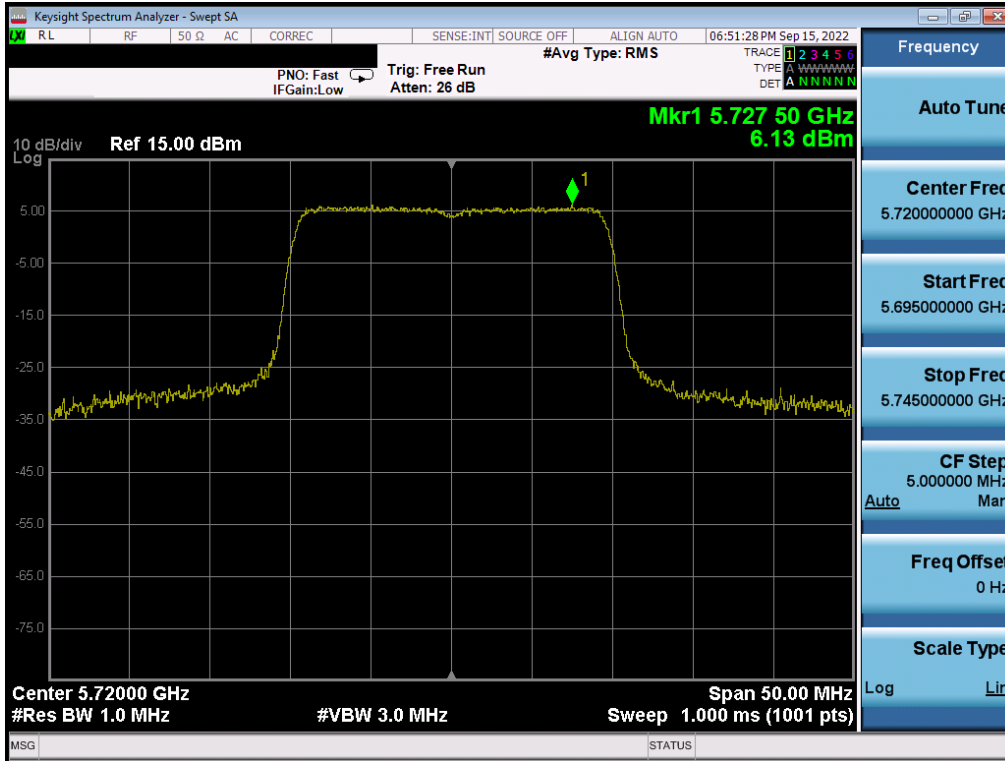


Plot 7-203. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

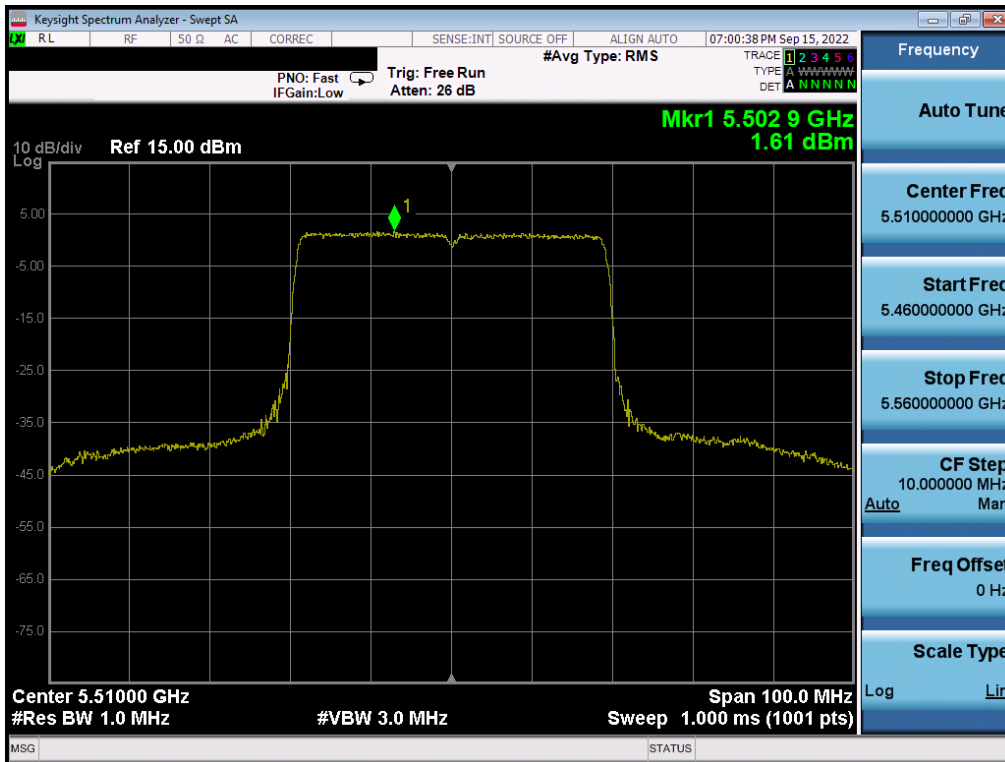


Plot 7-204. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 143 of 231

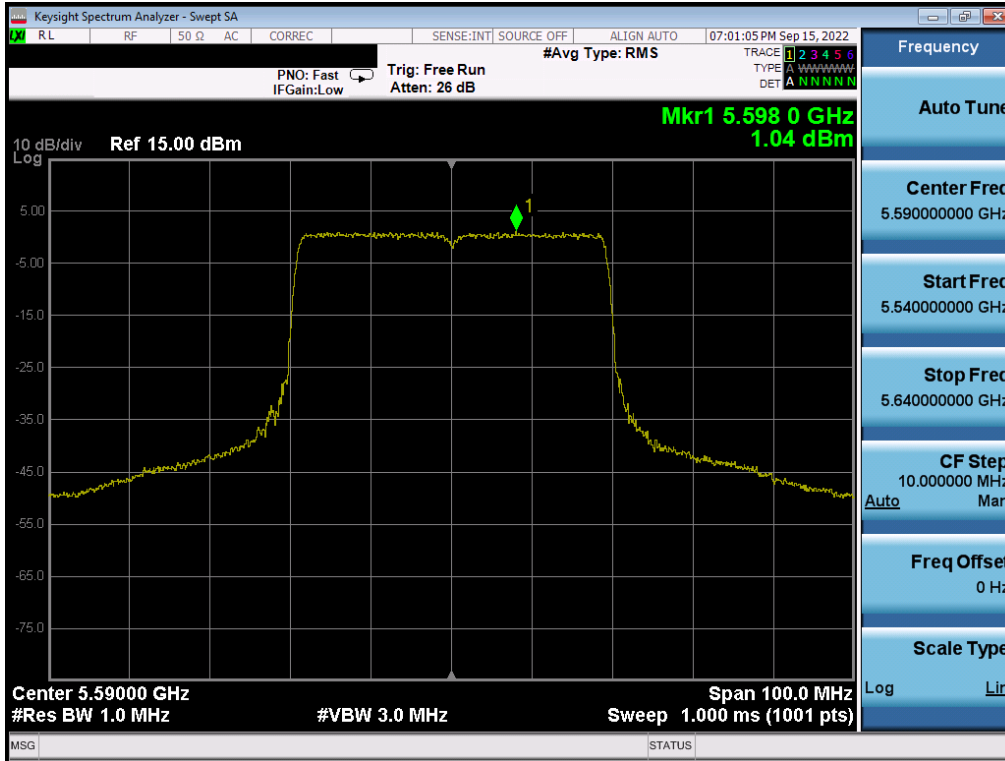


Plot 7-205. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

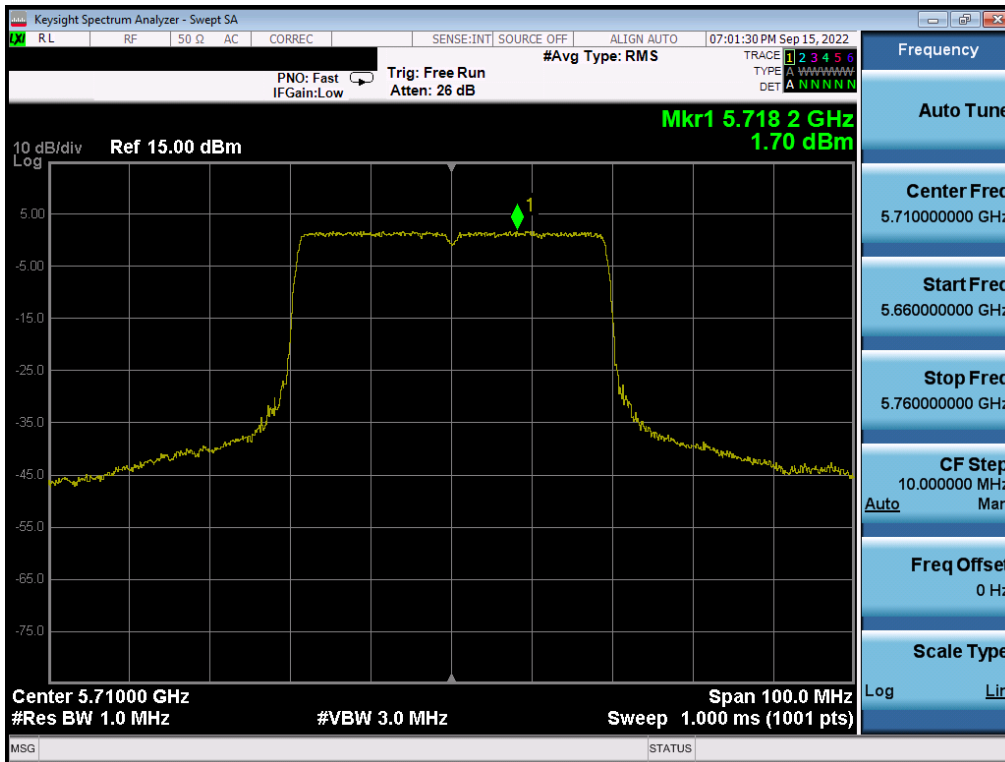


Plot 7-206. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMS918JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 144 of 231	

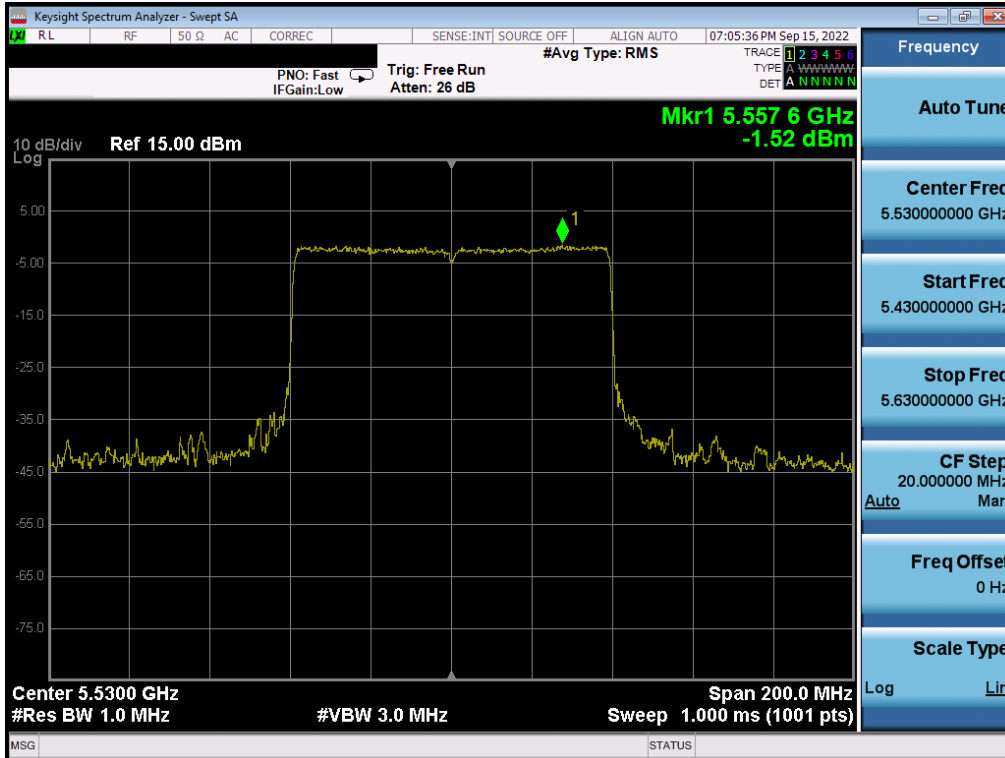


Plot 7-207. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

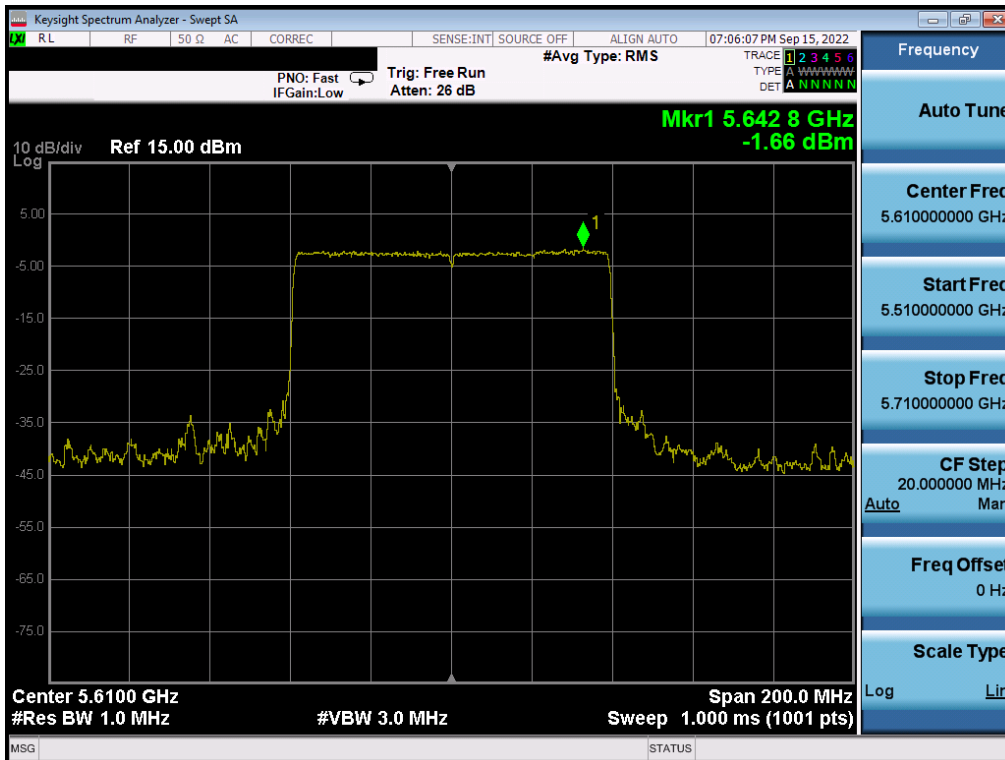


Plot 7-208. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 145 of 231



Plot 7-209. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)



Plot 7-210. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMS918JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2212080137-12-R1.A3L	Test Dates: 9/08 - 11/08/2022	EUT Type: Portable Handset	Page 146 of 231