

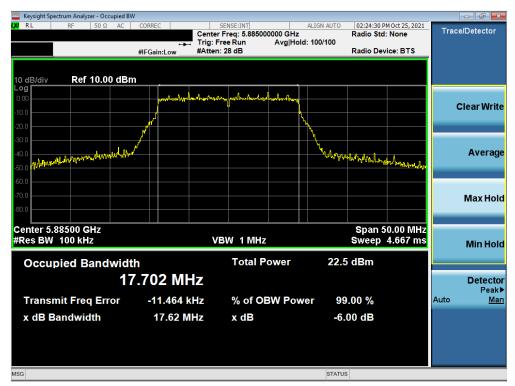
Plot 7-129. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3/4) - Ch. 169)



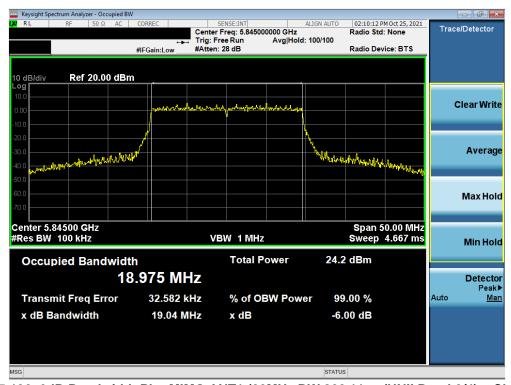
Plot 7-130. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-131. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)



Plot 7-132. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-133. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)



Plot 7-134. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 07 of 055
1M2109090103-11-R1.A3L	9/9 - 11/11/2021	Portable Handset	Page 87 of 255
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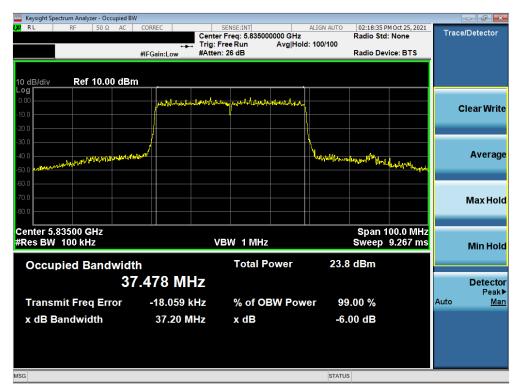
Plot 7-135. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)



Plot 7-136. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-137. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)



Plot 7-138. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-139. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)



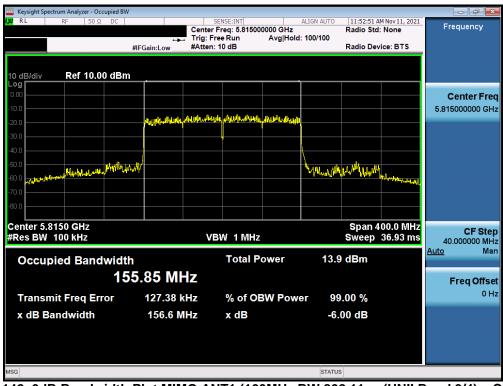
Plot 7-140. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-141. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)



Plot 7-142. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)

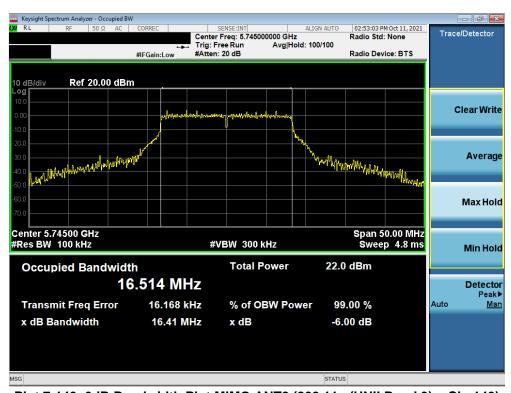
FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 04 of 055
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MIMO Antenna-2 6dB Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	а	6	16.41
	5785	157	а	6	16.42
	5825	165	а	6	16.42
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	17.63
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.63
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	17.64
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	19.02
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	18.91
m	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.96
	5755	151	n (40MHz)	13.5/15 (MCS0)	36.42
	5795	159	n (40MHz)	13.5/15 (MCS0)	36.50
	5755	151	ax (40MHz)	13.5/15 (MCS0)	37.39
	5795	159	ax (40MHz)	13.5/15 (MCS0)	37.44
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	76.17
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	77.31

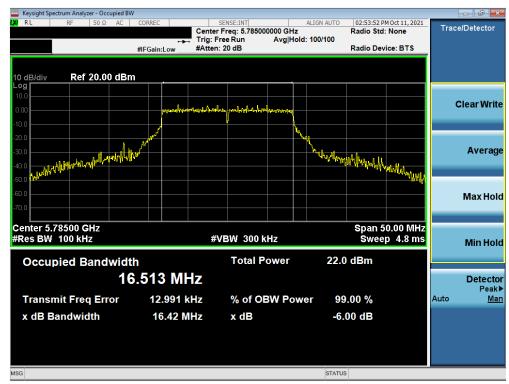
Table 7-6. Conducted Bandwidth Measurements MIMO ANT2



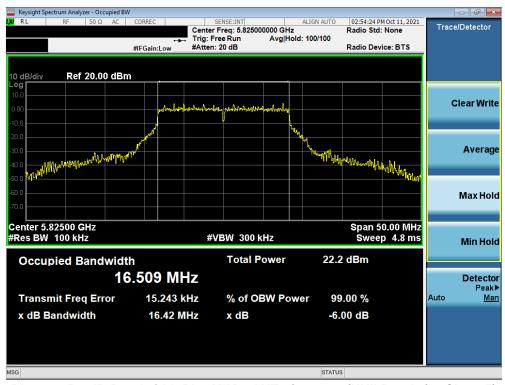
Plot 7-143. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMS906U	PCTEST* MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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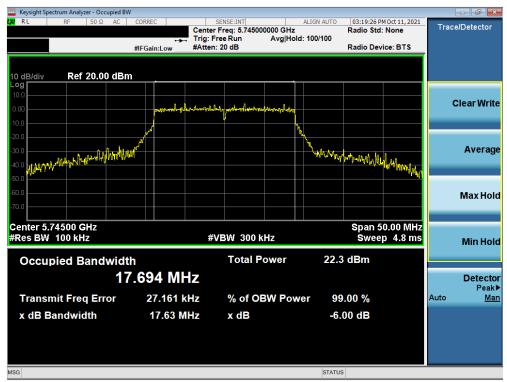
Plot 7-144. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 157)



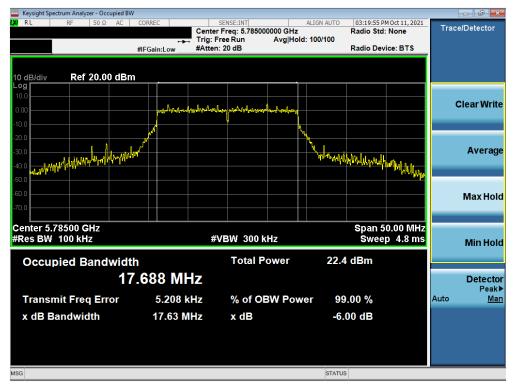
Plot 7-145. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMS906U	PCTEST* Proud to be part of @ element (CERTIFICATION) MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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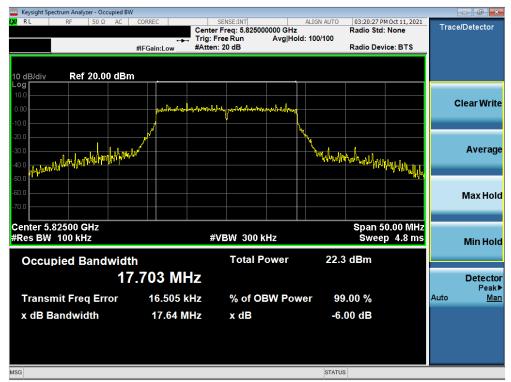
Plot 7-146. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



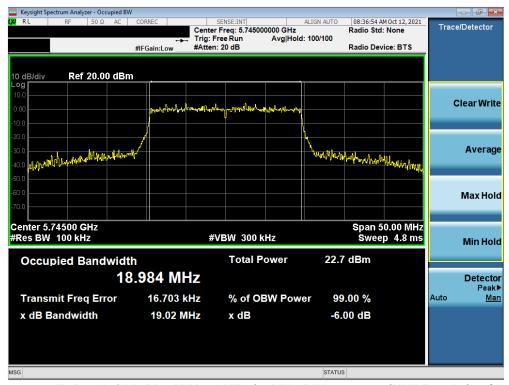
Plot 7-147. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-148. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)

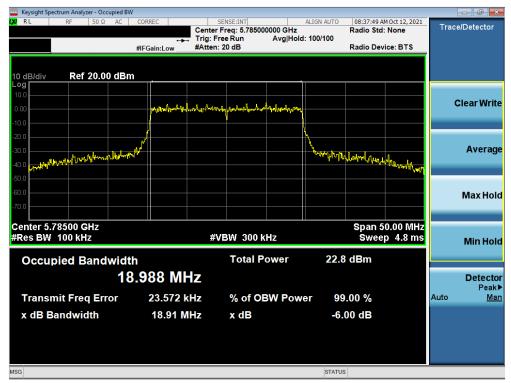


Plot 7-149. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

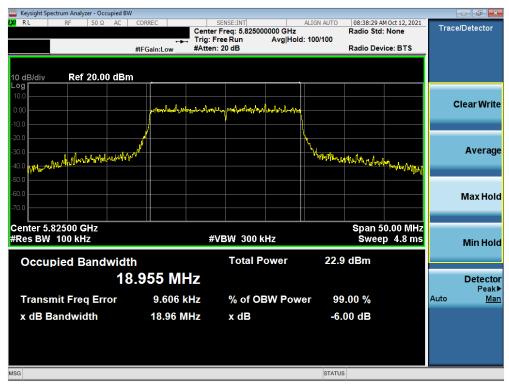
FCC ID: A3LSMS906U	PCTEST MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 95 of 255
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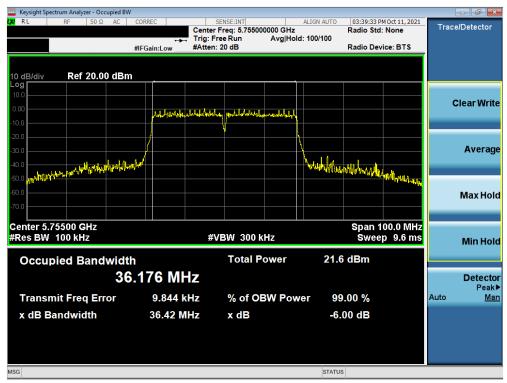
Plot 7-150. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



Plot 7-151. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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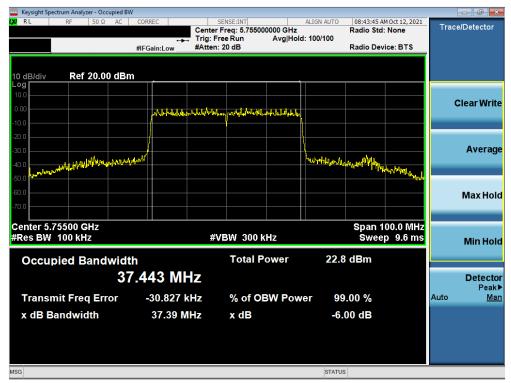
Plot 7-152. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



Plot 7-153. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 97 of 255
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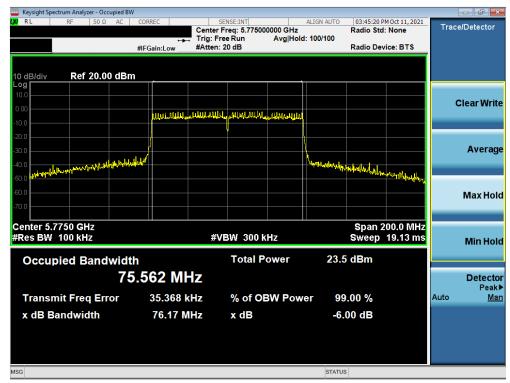
Plot 7-154. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



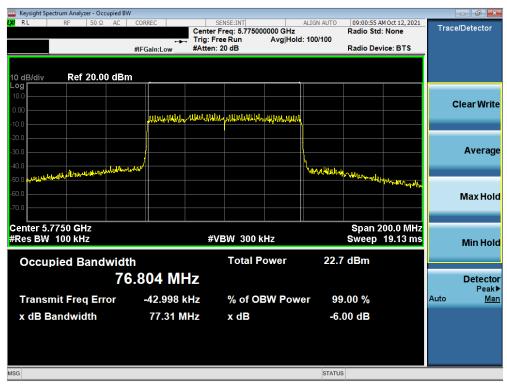
Plot 7-155. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-156. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-157. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 00 of 255
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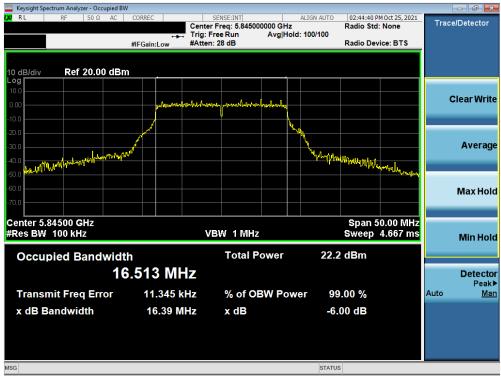


	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	а	6	16.39
Band 4	5865	173	а	6	16.38
Dallu 4	5885	177	а	6	16.40
Band 3/4	5845	169	n (20MHz)	6.5/7.2 (MCS0)	17.65
Band 4	5865	173	n (20MHz)	6.5/7.2 (MCS0)	17.64
Dallu 4	5885	177	n (20MHz)	6.5/7.2 (MCS0)	17.65
Band 3/4	5845	169	ax (20MHz)	6.5/7.2 (MCS0)	19.03
Band 4	5865	173	ax (20MHz)	6.5/7.2 (MCS0)	19.08
Dalla 4	5885	177	ax (20MHz)	6.5/7.2 (MCS0)	19.02
Band 3/4	5835	167	n (40MHz)	13.5/15 (MCS0)	36.40
Band 4	5875	175	n (40MHz)	13.5/15 (MCS0)	36.43
Band 3/4	5835	167	ax (40MHz)	13.5/15 (MCS0)	37.39
Band 4	5875	175	ax (40MHz)	13.5/15 (MCS0)	37.67
	5855	171	ac (80MHz)	29.3/32.5 (MCS0)	76.41
Band 3/4	5855	171	ax (80MHz)	29.3/32.5 (MCS0)	77.24
Dalla 3/4	5815	163	ac (160MHz)	58.5/65 (MCS0)	155.90
	5815	163	ax (160MHz)	58.5/65 (MCS0)	156.90

Table 7-7. Conducted Bandwidth Measurements Band 4 MIMO ANT2

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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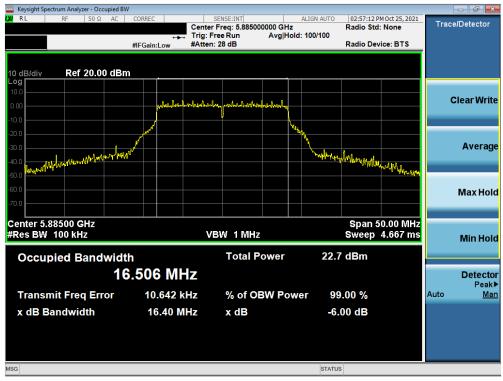
Plot 7-158. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 3/4) - Ch. 169)



Plot 7-159. 6dB Bandwidth Plot MIMO ANT2 (802.11a (UNII Band 4) - Ch. 173)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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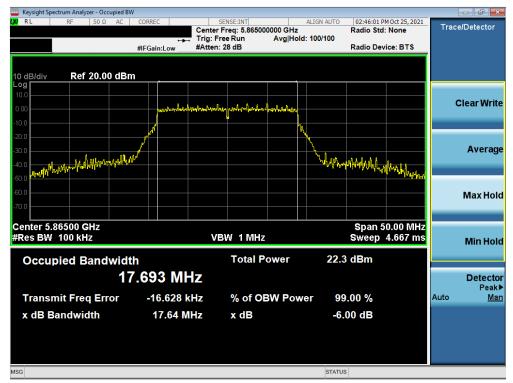




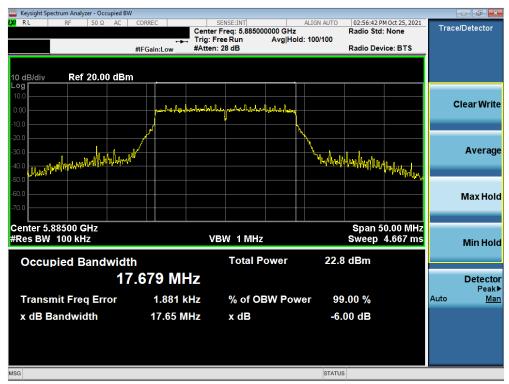
Plot 7-161. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-162. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)



Plot 7-163. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-164. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3/4) - Ch. 169)



Plot 7-165. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-166. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)



Plot 7-167. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-168. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)



Plot 7-169. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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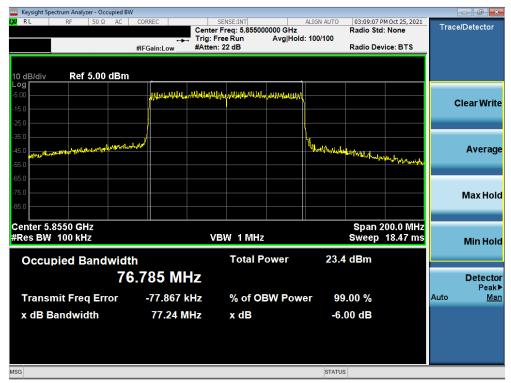
Plot 7-170. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)



Plot 7-171. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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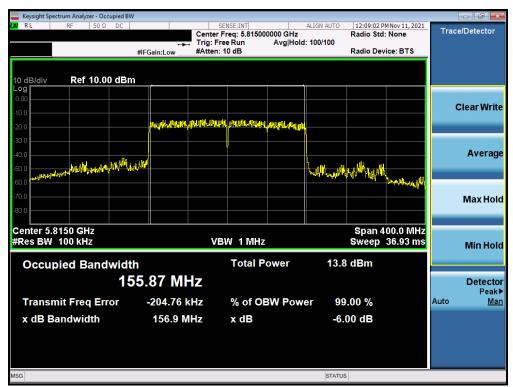
Plot 7-172. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)



Plot 7-173. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-174. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

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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); 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 log10B, dBm.

In the 5.25 - 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10\log_{10}(26$ dB BW) = 11 dBm + $10\log_{10}(21.13) = 24.25$ dBm. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10\log_{10}(26dB \ BW) = 11 \ dBm + 10\log_{10}(21.03) = 24.23dBm$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, 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

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.

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MIMO Maximum Conducted Output Power Measurements

	Freq [MHz] Channel		Detector	Conc	Conducted Power [dBm]			Conducted Power
~				ANT1	ANT2	MIMO	[dBm]	Margin [dB]
美	5180	36	AVG	16.46	16.71	19.60	23.98	-4.38
Ä	5200	40	AVG	16.32	16.45	19.40	23.98	-4.58
5	5220	44	AVG	16.44	16.43	19.45	23.98	-4.53
andwidth)	5240	48	AVG	16.45	16.56	19.52	23.98	-4.46
Ba	5260	52	AVG	16.48	16.45	19.48	23.98	-4.50
N	5280	56	AVG	16.39	16.38	19.40	23.98	-4.58
I	5300	60	AVG	16.18	16.38	19.29	23.98	-4.69
(20M	5320	64	AVG	16.02	16.14	19.09	23.98	-4.89
20	5500	100	AVG	16.81	17.02	19.93	23.98	-4.05
) z	5600	120	AVG	17.01	16.83	19.93	23.98	-4.05
Ï	5620	124	AVG	16.83	16.72	19.79	23.98	-4.19
G	5720	144	AVG	16.35	15.73	19.06	23.98	-4.92
5	5745	149	AVG	16.87	16.70	19.80	30.00	-10.20
	5785	157	AVG	16.97	16.45	19.73	30.00	-10.27
	5825	165	AVG	17.23	16.56	19.92	30.00	-10.08

Table 7-8. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

	Freq [MHz] Channel		Detector	Cond	Conducted Power [dBm]			Conducted Power
~				ANT1	ANT2	MIMO	[dBm] 23.98 23.98 23.98 23.98 23.98 23.98 23.98 23.98 23.98 23.98 23.98 23.98	Margin [dB]
=	5180	36	AVG	16.47	16.51	19.50	23.98	-4.48
i	5200	40	AVG	16.67	16.63	19.66	23.98	-4.32
<u> </u>	5220	44	AVG	16.40	16.45	19.44	23.98	-4.54
andwidth	5240	48	AVG	16.77	16.82	19.81	23.98	-4.17
Ba	5260	52	AVG	16.07	16.14	19.12	23.98	-4.86
N	5280	56	AVG	16.19	16.20	19.21	23.98	-4.77
I	5300	60	AVG	16.84	16.85	19.86	23.98	-4.12
(20M	5320	64	AVG	16.34	16.39	19.37	23.98	-4.61
20	5500	100	AVG	16.67	16.82	19.76	23.98	-4.22
) z	5600	120	AVG	16.77	16.90	19.85	23.98	-4.13
Ï	5620	124	AVG	16.24	15.93	19.10	23.98	-4.88
C)	5720	144	AVG	16.27	16.01	19.15	23.98	-4.83
5	5745	149	AVG	16.93	16.63	19.79	30.00	-10.21
	5785	157	AVG	16.18	15.83	19.02	30.00	-10.98
	5825	165	AVG	16.95	16.44	19.71	30.00	-10.29

Table 7-9. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

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	Freq [MHz] Channel		Detector	Conc	Conducted Power [dBm]			Conducted Power
~				ANT1	ANT2	MIMO	[dBm]	Margin [dB]
=	5180	36	AVG	16.78	16.82	19.81	23.98	-4.17
Ä	5200	40	AVG	16.33	16.39	19.37	23.98	-4.61
ndwidth)	5220	44	AVG	16.37	16.28	19.34	23.98	-4.64
Ž	5240	48	AVG	16.39	16.44	19.43	23.98	-4.55
Bal	5260	52	AVG	16.73	16.85	19.80	23.98	-4.18
z	5280	56	AVG	16.09	16.10	19.11	23.98	-4.87
エ	5300	60	AVG	16.91	16.99	19.96	23.98	-4.02
Σ	5320	64	AVG	16.76	16.78	19.78	23.98	-4.20
(20	5500	100	AVG	16.63	16.73	19.69	23.98	-4.29
Z (5600	120	AVG	16.85	16.92	19.90	23.98	-4.08
Ï	5620	124	AVG	16.10	16.13	19.13	23.98	-4.85
G	5720	144	AVG	17.05	16.82	19.95	23.98	-4.03
5	5745	149	AVG	17.15	16.80	19.99	30.00	-10.01
	5785	157	AVG	17.07	16.52	19.81	30.00	-10.19
	5825	165	AVG	17.18	16.46	19.85	30.00	-10.15

Table 7-10. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz] Channel		Detector	Conducted Power [dBm]			Conducted Power Limit	Conducted Power
-				ANT1	ANT2	MIMO	[dBm]	Margin [dB]
美	5180	36	AVG	16.50	16.45	19.49	23.98	-4.49
ë	5200	40	AVG	16.63	16.50	19.58	23.98	-4.40
<u> </u>	5220	44	AVG	16.84	16.77	19.82	23.98	-4.16
andwidth	5240	48	AVG	16.63	16.54	19.60	23.98	-4.38
Ba	5260	52	AVG	16.16	16.08	19.13	23.98	-4.85
Z	5280	56	AVG	16.42	16.39	19.42	23.98	-4.56
エ	5300	60	AVG	16.59	16.54	19.58	23.98	-4.40
Σ	5320	64	AVG	16.51	16.27	19.40	23.98	-4.58
(20	5500	100	AVG	16.15	16.38	19.28	23.98	-4.70
) z	5600	120	AVG	16.34	16.42	19.39	23.98	-4.59
Ï	5620	124	AVG	16.37	16.28	19.34	23.98	-4.64
G	5720	144	AVG	16.84	16.51	19.69	23.98	-4.29
5	5745	149	AVG	16.25	16.27	19.27	30.00	-10.73
	5785	157	AVG	16.15	15.93	19.05	30.00	-10.95
	5825	165	AVG	16.50	16.00	19.27	30.00	-10.73

Table 7-11. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

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Freq [MHz]	Channel	Detector	Conc	lucted Power [dBm]	Conducted Power Limit	Conducted Power	
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]
Å 🗢	5190	38	AVG	16.94	16.80	19.88	23.98	-4.10
0MH; idth)	5230	46	AVG	16.12	16.13	19.14	23.98	-4.84
idt	5270	54	AVG	16.65	16.86	19.77	23.98	-4.21
4) z	5310	62	AVG	16.23	15.98	19.12	23.98	-4.86
₽ ⊆	5510	102	AVG	16.73	16.65	19.70	23.98	-4.28
GF Ba	5590	118	AVG	16.43	16.36	19.41	23.98	-4.57
50 E	5630	126	AVG	16.76	16.35	19.57	23.98	-4.41
5710	142	AVG	16.95	16.91	19.94	23.98	-4.04	
	5755	151	AVG	16.85	16.51	19.69	30.00	-10.31
	5795	159	AVG	16.65	16.10	19.39	30.00	-10.61

Table 7-12. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

Freq [MHz]	Channel	Detector	Cond	lucted Power [dBm]	Conducted Power Limit	Conducted Power	
			ANT1	ANT2	MIMO	[dBm]	Margin [dB]	
Y C	5190	38	AVG	16.58	16.29	19.45	23.98	-4.53
(40MH)	5230	46	AVG	16.05	16.07	19.07	23.98	-4.91
<u> </u>	5270	54	AVG	16.55	16.75	19.66	23.98	-4.32
tz (4 ndw	5310	62	AVG	16.62	16.81	19.73	23.98	-4.25
HZ anc	5510	102	AVG	16.23	15.77	19.02	23.98	-4.96
다 Ba	5590	118	AVG	16.76	16.65	19.72	23.98	-4.26
50 E	5630	126	AVG	16.59	16.23	19.42	23.98	-4.56
	5710	142	AVG	16.65	16.38	19.53	23.98	-4.45
	5755	151	AVG	16.42	16.04	19.24	30.00	-10.76
	5795	159	AVG	16.33	15.88	19.12	30.00	-10.88

Table 7-13. MIMO 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Conc	lucted Power [dBm]	Conducted Power Limit	Conducted Power
				ANT1	ANT2	MIMO	[dBm]	Margin [dB]
Ž (5190	38	AVG	16.28	16.23	19.27	23.98	-4.71
(40MHz lwidth)	5230	46	AVG	16.24	16.15	19.21	23.98	-4.77
₽ ₽	5270	54	AVG	16.29	16.38	19.35	23.98	-4.63
tz (40 Indwi	5310	62	AVG	16.25	16.45	19.36	23.98	-4.62
Hz	5510	102	AVG	16.53	16.42	19.49	23.98	-4.49
다 Ba	5590	118	AVG	17.02	16.76	19.90	23.98	-4.08
50 E	5630	126	AVG	17.00	16.72	19.87	23.98	-4.11
	5710	142	AVG	16.14	16.22	19.19	23.98	-4.79
	5755	151	AVG	16.15	15.84	19.01	30.00	-10.99
	5795	159	AVG	16.91	16.38	19.66	30.00	-10.34

Table 7-14. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

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	Freq [MHz]	Channel	Detector	Cond	lucted Power [dBm]	Conducted Power Limit	Conducted Power	
(80MHz dwidth)				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	
GHz (80MH Bandwidth)	5210	42	AVG	16.35	16.13	19.25	23.98	-4.73	
<u>®</u> <u>≅</u>	5290	58	AVG	15.95	15.80	18.89	23.98	-5.09	
Hz	5530	106	AVG	16.40	16.23	19.33	23.98	-4.65	
5G Ba	5610	122	AVG	16.75	16.14	19.47	23.98	-4.51	
	5690	138	AVG	16.00	15.40	18.72	23.98	-5.26	
	5775	155	AVG	15.95	15.40	18.69	30.00	-11.31	

Table 7-15. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector		lucted Power [dBm]	Conducted Power Limit	Conducted Power
(80MHz lwidth)				ANT1	ANT2	MIMO	[dBm]	Margin [dB]
GHz (80MH Bandwidth)	5210	42	AVG	16.00	15.83	18.93	23.98	-5.05
<u>8</u> 8	5290	58	AVG	16.50	16.34	19.43	23.98	-4.55
Hz	5530	106	AVG	15.84	15.90	18.88	23.98	-5.10
5G Ba	5610	122	AVG	16.16	15.71	18.95	23.98	-5.03
	5690	138	AVG	16.40	15.94	19.19	23.98	-4.79
	5775	155	AVG	15.90	15.60	18.76	30.00	-11.24

Table 7-16. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

z IHz dth)	Freq [MHz]	Channel	Detector Conducted Power [dBm]		dBm]	Conducted Power Limit	Conducted Power	
T O S				ANT1	ANT2	MIMO	[dBm]	Margin [dB]
5((16	5250	50	AVG	15.95	15.56	18.77	23.98	-5.21
m	5570	114	AVG	15.68	15.47	18.59	30.00	-11.41

Table 7-17. MIMO 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

lz IHz idth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit	Conducted Power		
D S S S S S S S S S S S S S S S S S S S				ANT1	ANT2	MIMO	[dBm]	Margin [dB]	
5(16)	5250	50	AVG	15.92	15.52	18.73	23.98	-5.25	
ä	5570	114	AVG	15.64	15.42	18.54	30.00	-11.46	

Table 7-18. MIMO 160MHz BW 802.11ax (UNII) Maximum Conducted Output Power

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Z	Freq [MHz]	BW [MHz]	Channel	Detector	С	Conducted Power Directional Gain			Max e.i.r.p	Max e.i.r.p	e.i.r.p Margin [dB]
ے <u>ج</u>					Ant1	Ant2	Mimo	- Cum	[ubiii]	Link [abin]	[uD]
Å 4	5845		169	AVG	17.22	16.71	19.98	-4.29	12.93	30.00	-17.07
ট	5865	20	173	AVG	17.26	16.60	19.95	-4.29	12.97	30.00	-17.03
rc.	5885		177	AVG	17.19	16.42	19.83	-4.29	12.90	30.00	-17.10

Table 7-19. MIMO 802.11a (UNII 4) Maximum Conducted Output Power and e.i.r.p.

(4	Freq [MHz]	eq [MHz] BW [MHz] Channel		Detector	С	onducted Pow	er	Directional Gain	Max e.i.r.p [dBm]	Max e.i.r.p	e.i.r.p Margin [dB]
=					Ant1	Ant2	Mimo	Gain	[ubiii]	Liniii (abinj	[ub]
. Ž	5845		169	AVG	17.12	16.38	19.78	-4.29	12.83	30.00	-17.17
) z	5865	20	173	AVG	16.90	16.23	19.59	-4.29	12.61	30.00	-17.39
I	5885		177	AVG	17.06	16.28	19.70	-4.29	12.77	30.00	-17.23
56	5835	40	167	AVG	16.55	15.84	19.22	-4.29	12.26	30.00	-17.74
-,	5875	40	175	AVG	16.93	16.50	19.73	-4.29	12.64	30.00	-17.36

Table 7-20. MIMO 802.11n (UNII 4) Maximum Conducted Output Power and e.i.r.p.

	Freq [MHz]	BW [MHz] Ch	Channel	Detector	С	onducted Pow	er	Directional Gain	Max e.i.r.p [dBm]	Max e.i.r.p Limit [dBm]	e.i.r.p Margin
4					Ant1	Ant2	Mimo	Gain	[ubiii]	Liniit [abin]	[GD]
Ē	5845		169	AVG	17.19	16.74	19.98	-4.29	12.90	30.00	-17.10
5	5865	20	173	AVG	17.20	16.32	19.79	-4.29	12.91	30.00	-17.09
<u>×</u>	5885		177	AVG	17.10	16.32	19.74	-4.29	12.81	30.00	-17.19
	5835	40	167	AVG	16.99	16.29	19.66	-4.29	12.70	30.00	-17.30
5G	5875	40	175	AVG	17.00	16.37	19.71	-4.29	12.71	30.00	-17.29
	5855	80	171	AVG	16.69	15.83	19.29	-4.29	12.40	30.00	-17.60
	5815	160	163	AVG	15.69	15.15	18.44	-4.29	11.40	36.00	-24.60

Table 7-21. MIMO 802.11ac (UNII 4) Maximum Conducted Output Power and e.i.r.p.

	Freq [MHz]	BW [MHz] Channel	Channel	Detector	C	onducted Pow	er	Directional Gain	Max e.i.r.p	Max e.i.r.p	e.i.r.p Margin
4					Ant1	Ant2	Mimo	Gain	[GBIII]	Linii [abin]	[wa]
夏	5845		169	AVG	17.10	16.44	19.79	-4.29	12.81	30.00	-17.19
5	5865	20	173	AVG	17.24	16.51	19.90	-4.29	12.95	30.00	-17.05
) z	5885		177	AVG	17.28	16.54	19.94	-4.29	12.99	30.00	-17.01
	5835	40	167	AVG	17.18	16.76	19.99	-4.29	12.89	30.00	-17.11
5GI	5875	40	175	AVG	17.34	16.58	19.99	-4.29	13.05	30.00	-16.95
4,	5855	80	171	AVG	16.59	16.12	19.37	-4.29	12.30	30.00	-17.70
	5815	160	163	AVG	15.94	15.73	18.85	-4.29	11.65	36.00	-24.35

Table 7-22. MIMO 802.11ax (UNII 4) Maximum Conducted Output Power and e.i.r.p.

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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.

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

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 16.47 dBm for Antenna-1 and 16.51 dBm for Antenna-2.

$$(16.47 \text{ dBm} + 16.51 \text{ dBm}) = (44.36 \text{ mW} + 44.77 \text{ mW}) = 89.13 \text{ mW} = 19.50 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 19.50 dBm with directional gain of -3.54 dBi.

$$19.50 \text{ dBm} + -3.54 \text{ dBi} = 15.96 \text{ dBm}$$

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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); 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 - 5.25 GHz, 5.25 - 5.35 GHz, 5.47 - 5.725 GHz bands, the maximum permissible power spectral density is 11 dBm/MHz.

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

In the 5.850 - 5.855, the maximum power spectral density must not exceed 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 $\geq 2 \times (\text{span/RBW})$
- 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

assembly of contents thereof, please contact INFO@PCTEST.COM

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

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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	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]
	5180	36	а	6	3.61	4.13	6.89	11.0	-4.11
	5200	40	а	6	4.15	4.79	7.49	11.0	-3.51
	5240	48	а	6	4.55	4.82	7.70	11.0	-3.30
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	3.88	3.62	6.76	11.0	-4.24
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	4.00	4.01	7.02	11.0	-3.98
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.24	4.29	7.28	11.0	-3.72
_	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	3.38	3.51	6.46	11.0	-4.54
Band 1	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	3.95	3.98	6.97	11.0	-4.03
ä	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	4.16	4.36	7.27	11.0	-3.73
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.81	-0.78	2.22	11.0	-8.78
	5230	46	n (40MHz)	13.5/15 (MCS0)	-0.16	-0.37	2.74	11.0	-8.26
	5190	38	ax (40MHz)	13.5/15 (MCS0)	1.84	2.00	4.93	11.0	-6.07
	5230	46	ax (40MHz)	13.5/15 (MCS0)	1.91	2.02	4.98	11.0	-6.02
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-2.92	-2.13	0.50	11.0	-10.50
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-3.47	-3.53	-0.49	11.0	-11.49
Band 1/2A	5250	50	ac (160MHz)	58.5/65 (MCS0)	-5.41	-6.05	-2.71	11.0	-13.71
Ba 1/7	5250	50	ax (160MHz)	58.5/65 (MCS0)	-6.07	-6.21	-3.13	11.0	-14.13
	5260	52	а	6	4.20	4.38	7.30	11.0	-3.70
	5280	56	а	6	4.69	5.05	7.88	11.0	-3.12
	5320	64	а	6	4.22	4.39	7.32	11.0	-3.68
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	3.69	3.62	6.67	11.0	-4.33
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	3.43	3.68	6.57	11.0	-4.43
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	3.80	4.24	7.04	11.0	-3.96
8 8	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	3.40	3.75	6.59	11.0	-4.41
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	3.11	3.63	6.39	11.0	-4.61
Ва	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	3.67	3.81	6.75	11.0	-4.25
	5270	54	n (40MHz)	13.5/15 (MCS0)	0.23	0.35	3.30	11.0	-7.70
	5310	62	n (40MHz)	13.5/15 (MCS0)	-0.28	0.33	3.05	11.0	-7.95
	5270	54	ax (40MHz)	13.5/15 (MCS0)	1.25	0.76	4.02	11.0	-6.98
	5310	62	ax (40MHz)	13.5/15 (MCS0)	0.30	1.01	3.68	11.0	-7.32
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-3.02	-2.57	0.22	11.0	-10.78
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-3.06	-2.89	0.04	11.0	-10.96
	5500	100	а	6	4.61	4.70	7.66	11.0	-3.34
	5600	120	а	6	4.99	5.27	8.14	11.0	-2.86
	5720	144	а	6	5.19	4.99	8.10	11.0	-2.90
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	4.58	4.36	7.48	11.0	-3.52
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	4.71	4.66	7.70	11.0	-3.30
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	4.86	5.12	8.00	11.0	-3.00
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	3.59	4.47	7.06	11.0	-3.94
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	4.33	4.84	7.60	11.0	-3.40
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	4.56	4.71	7.65	11.0	-3.35
	5510	102	n (40MHz)	13.5/15 (MCS0)	0.12	-0.33	2.91	11.0	-8.09
2C	5590	118	n (40MHz)	13.5/15 (MCS0)	0.39	-0.14	3.15	11.0	-7.85
Band	5710	142	n (40MHz)	13.5/15 (MCS0)	0.64	-0.52	3.11	11.0	-7.89
Ba	5510	102	ax (40MHz)	13.5/15 (MCS0)	1.36	0.98	4.18	11.0	-6.82
	5590	118	ax (40MHz)	13.5/15 (MCS0)	1.31	1.17	4.25	11.0	-6.75
	5710	142	ax (40MHz)	13.5/15 (MCS0)	1.60	1.33	4.48	11.0	-6.52
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-2.52	-1.67	0.94	11.0	-10.06
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-1.91	-1.97	1.07	11.0	-9.93
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-4.49	-4.71	-1.59	11.0	-12.59
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-3.23	-2.98	-0.09	11.0	-11.09
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-2.87	-3.16	0.00	11.0	-11.00
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-5.25	-5.44	-2.33	11.0	-13.33
	5570	114	ac (160MHz)	58.5/65 (MCS0)	-7.55	-6.51	-3.99	11.0	-14.99
	5570	114	ax (160MHz)	58.5/65 (MCS0)	-6.88	-7.24	-4.05	11.0	-15.05
	- L. L. 7 0								

Table 7-23. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	а	6	1.96	1.89	4.93	30.0	-25.07
	5785	157	а	6	2.10	1.73	4.93	30.0	-25.07
	5825	165	а	6	2.40	1.88	5.16	30.0	-24.84
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	2.15	1.58	4.88	30.0	-25.12
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	1.78	1.45	4.63	30.0	-25.37
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	2.40	1.44	4.96	30.0	-25.04
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	1.40	1.42	4.42	30.0	-25.58
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	1.91	1.49	4.72	30.0	-25.28
ĕ	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	2.04	1.47	4.77	30.0	-25.23
	5755	151	n (40MHz)	13.5/15 (MCS0)	-2.48	-2.67	0.44	30.0	-29.56
	5795	159	n (40MHz)	13.5/15 (MCS0)	-2.28	-2.45	0.65	30.0	-29.35
	5755	151	ax (40MHz)	13.5/15 (MCS0)	-1.61	-1.68	1.37	30.0	-28.63
	5795	159	ax (40MHz)	13.5/15 (MCS0)	-1.61	-1.84	1.29	30.0	-28.71
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-3.02	-2.11	0.47	30.0	-29.53
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-2.94	-2.88	0.10	30.0	-29.90

Table 7-24. Band 3 MIMO Conducted Power Spectral Density Measurements

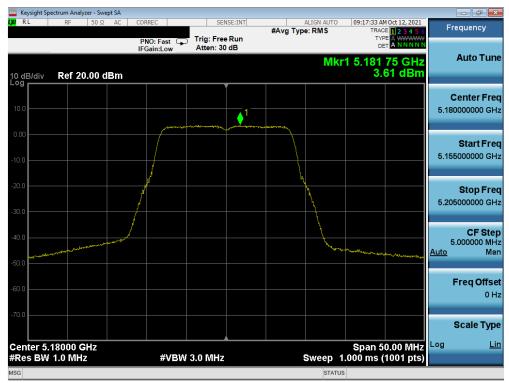
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	MIMO Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	а	6	5.38	4.18	7.83	-4.29	3.54	14.00	-10.46
Band 4	5865	173	а	6	4.93	4.59	7.77	-4.29	3.48	14.00	-10.52
Dallu 4	5885	177	а	6	4.95	4.61	7.79	-4.29	3.50	14.00	-10.50
Band 3/4	5845	169	n (20MHz)	6.5/7.2 (MCS0)	4.97	3.81	7.44	-4.29	3.15	14.00	-10.85
Band 4	5865	173	n (20MHz)	6.5/7.2 (MCS0)	3.74	4.06	6.91	-4.29	2.62	14.00	-11.38
Dallu 4	5885	177	n (20MHz)	6.5/7.2 (MCS0)	4.08	4.32	7.21	-4.29	2.92	14.00	-11.08
Band 3/4	5845	169	ax (20MHz)	6.5/7.2 (MCS0)	4.80	3.92	7.39	-4.29	3.10	14.00	-10.90
Band 4	5865	173	ax (20MHz)	6.5/7.2 (MCS0)	3.84	4.02	6.94	-4.29	2.65	14.00	-11.35
Dallu 4	5885	177	ax (20MHz)	6.5/7.2 (MCS0)	3.83	4.19	7.02	-4.29	2.73	14.00	-11.27
Band 3/4	5835	167	n (40MHz)	13.5/15 (MCS0)	-0.14	1.02	3.49	-4.29	-0.80	14.00	-14.80
Band 4	5875	175	n (40MHz)	13.5/15 (MCS0)	0.32	1.32	3.86	-4.29	-0.43	14.00	-14.43
Band 3/4	5835	167	ax (40MHz)	13.5/15 (MCS0)	0.61	0.87	3.75	-4.29	-0.54	14.00	-14.54
Band 4	5875	175	ax (40MHz)	13.5/15 (MCS0)	0.27	0.88	3.60	-4.29	-0.69	14.00	-14.69
	5855	171	ac (80MHz)	29.3/32.5 (MCS0)	-3.52	-2.27	0.16	-4.29	-4.13	14.00	-18.13
Band 3/4	5855	171	ax (80MHz)	29.3/32.5 (MCS0)	-3.32	-3.89	-0.59	-4.29	-4.87	14.00	-18.87
Danu 3/4	5815	163	ac (160MHz)	58.5/65 (MCS0)	-5.26	-5.41	-2.32	-4.29	-6.61	14.00	-20.61
	5815	163	ax (160MHz)	58.5/65 (MCS0)	-4.89	-5.26	-2.06	-4.29	-6.35	14.00	-20.35

Table 7-25. Band 4 MIMO e.i.r.p Spectral Density Measurements

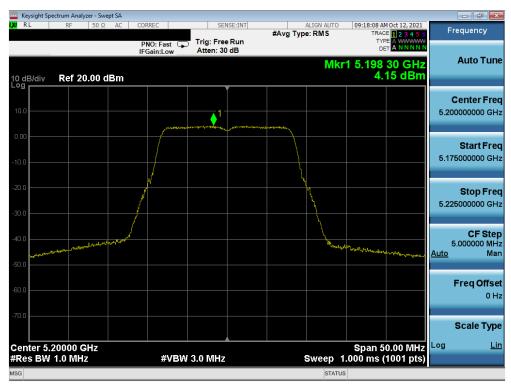
FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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MIMO Antenna-1 Power Spectral Density Measurements



Plot 7-175. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 1) - Ch. 36)

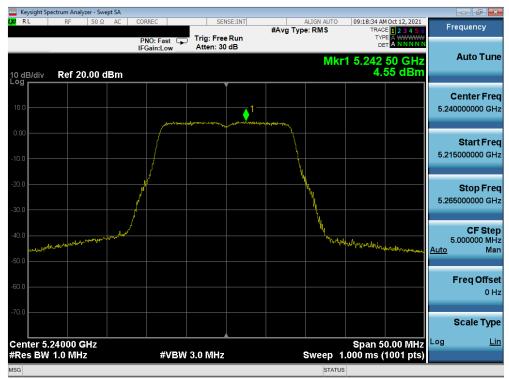


Plot 7-176. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 1) - Ch. 40)

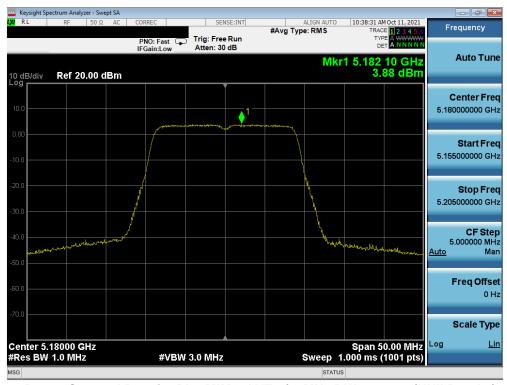
FCC ID: A3LSMS906U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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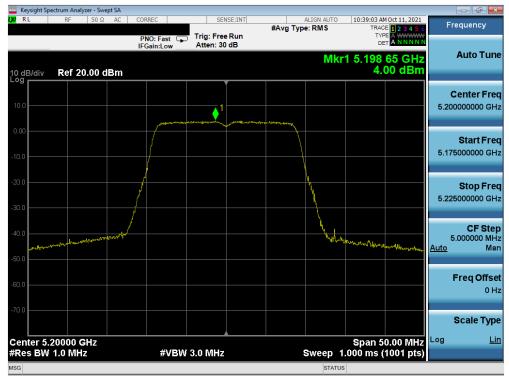
Plot 7-177. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 1) - Ch. 48)



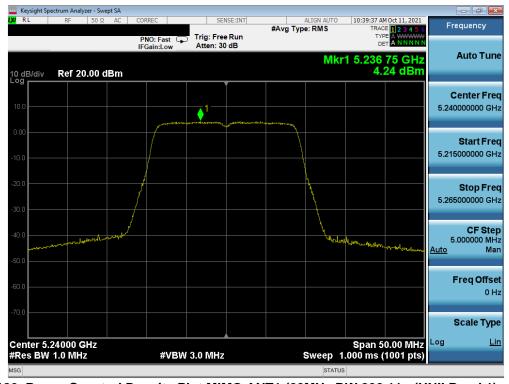
Plot 7-178. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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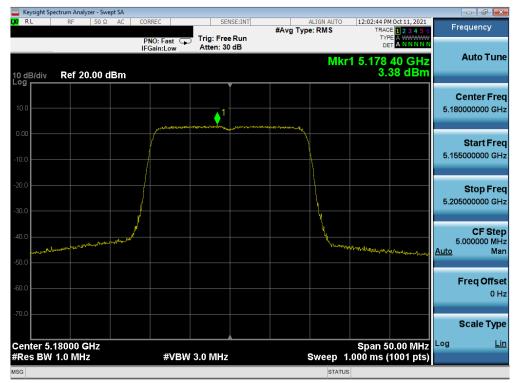
Plot 7-179. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



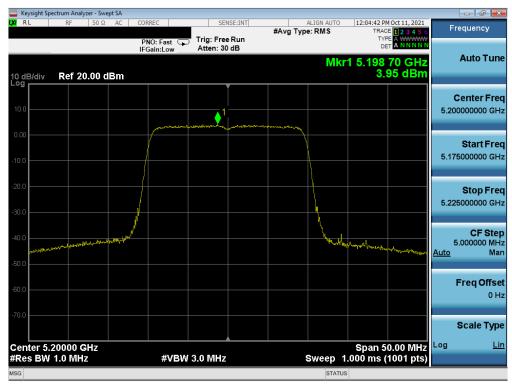
Plot 7-180. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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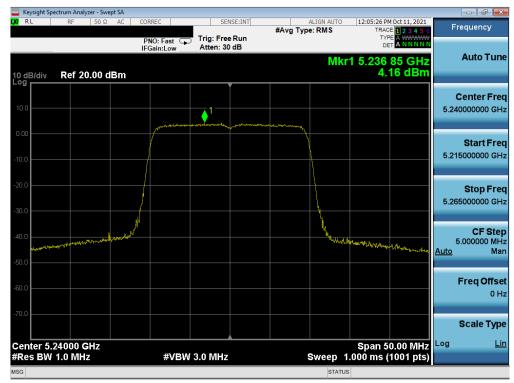
Plot 7-181. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



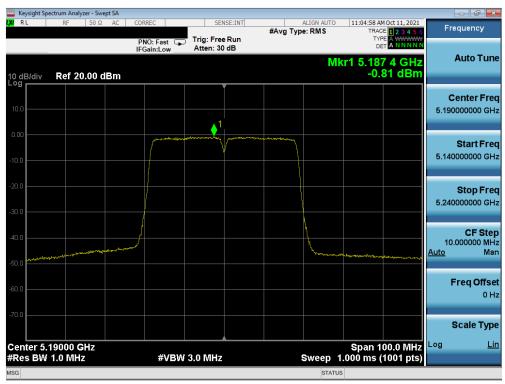
Plot 7-182. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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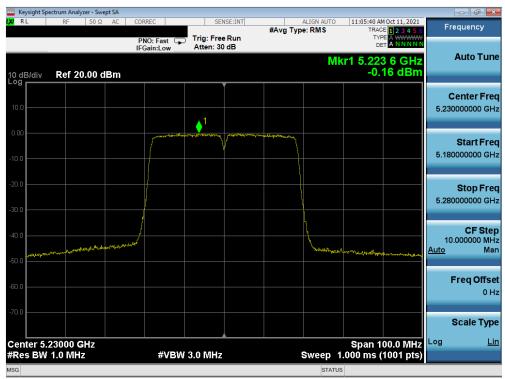
Plot 7-183. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



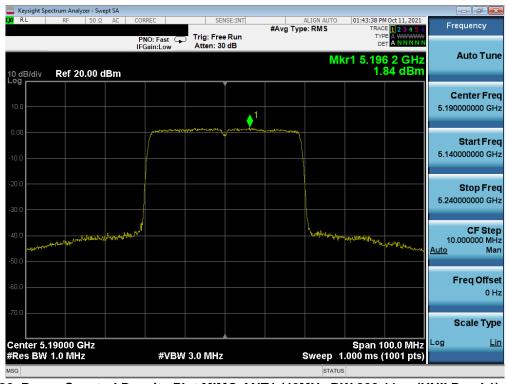
Plot 7-184. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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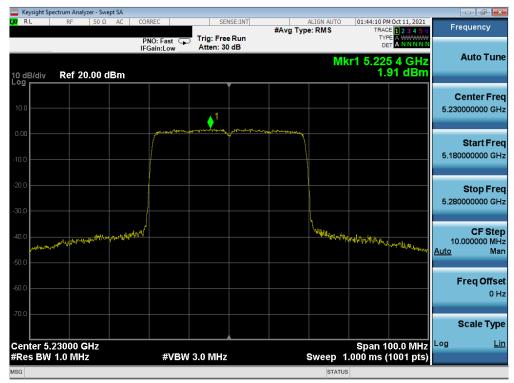
Plot 7-185. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



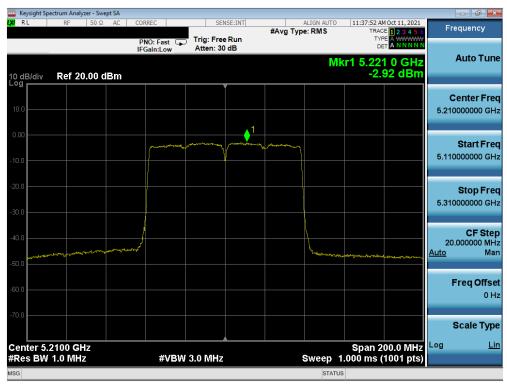
Plot 7-186. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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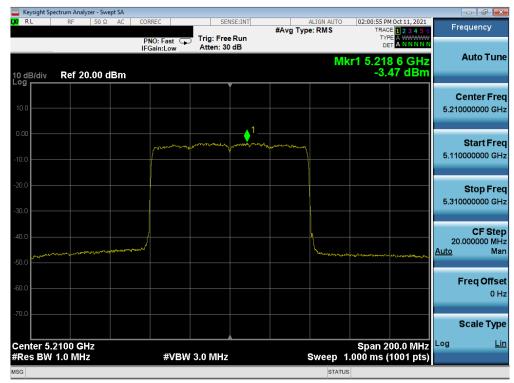
Plot 7-187. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



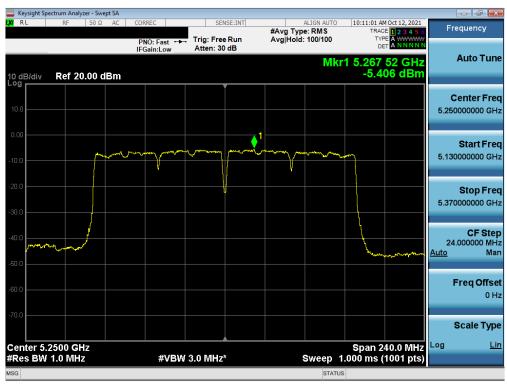
Plot 7-188. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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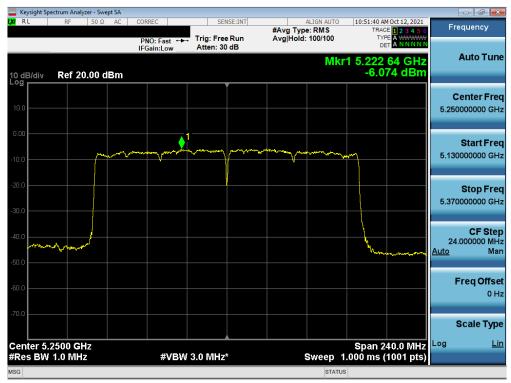
Plot 7-189. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



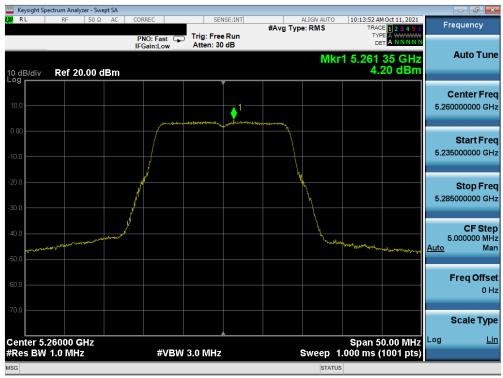
Plot 7-190. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 1) - Ch. 50)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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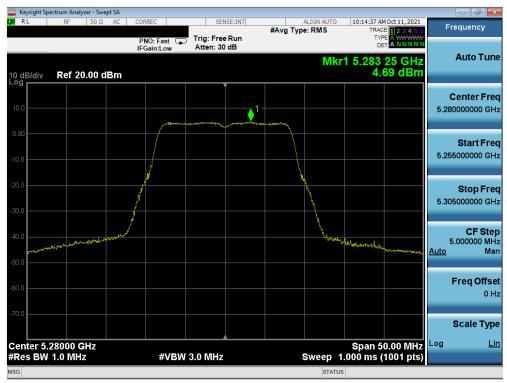
Plot 7-191. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 1) - Ch. 50)



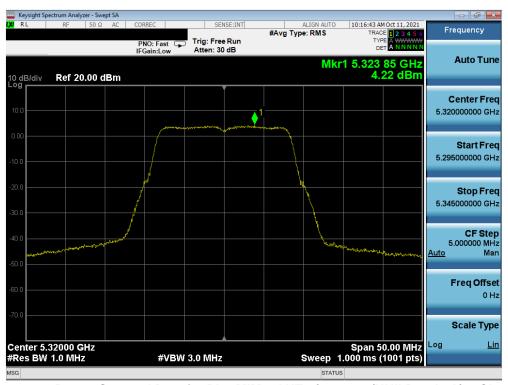
Plot 7-192. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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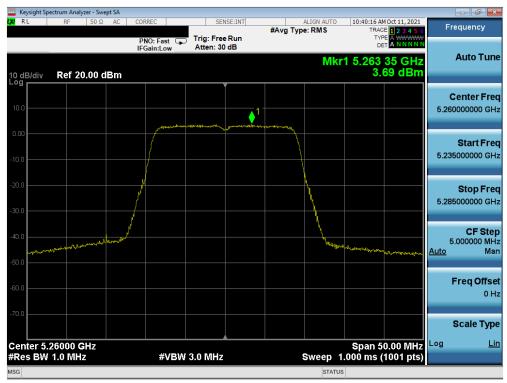
Plot 7-193. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2A) - Ch. 56)



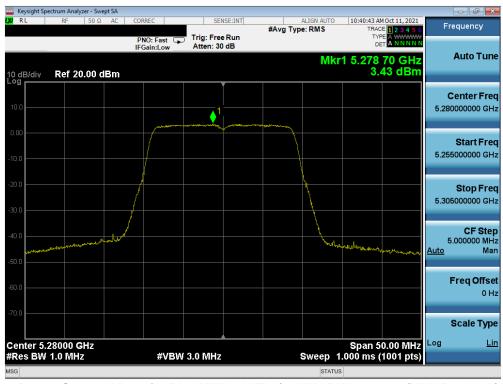
Plot 7-194. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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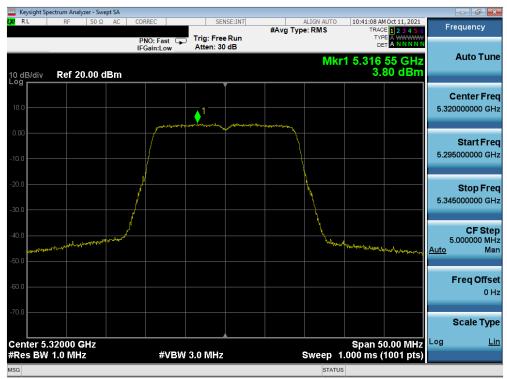
Plot 7-195. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



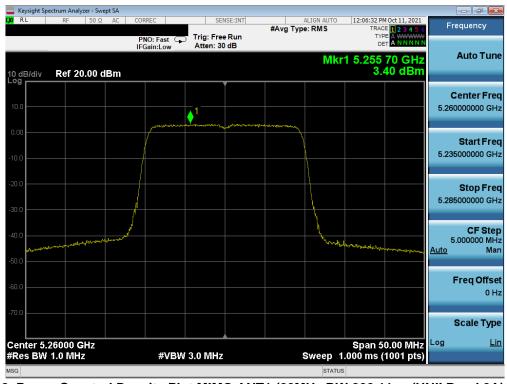
Plot 7-196. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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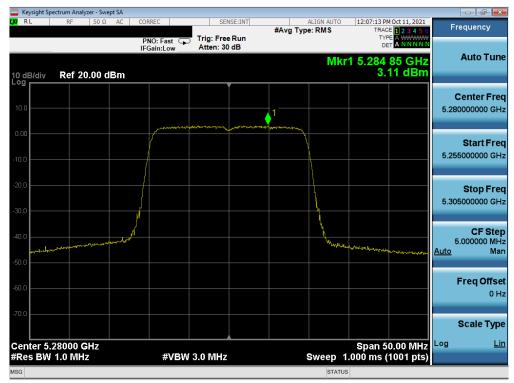
Plot 7-197. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



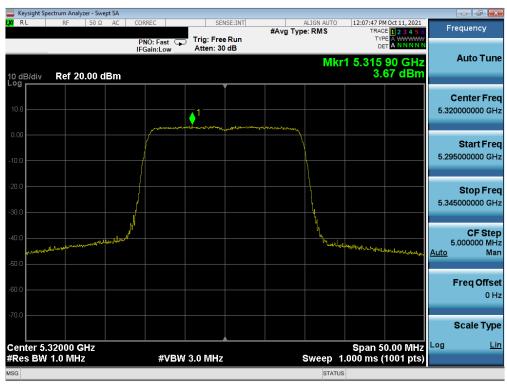
Plot 7-198. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

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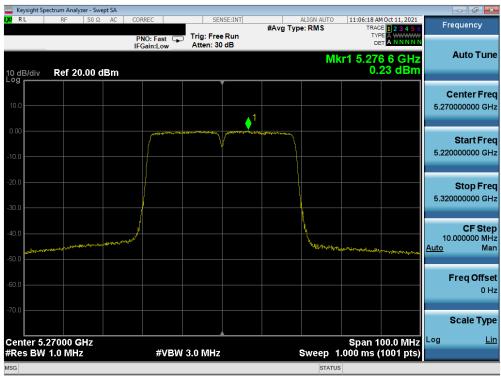
Plot 7-199. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



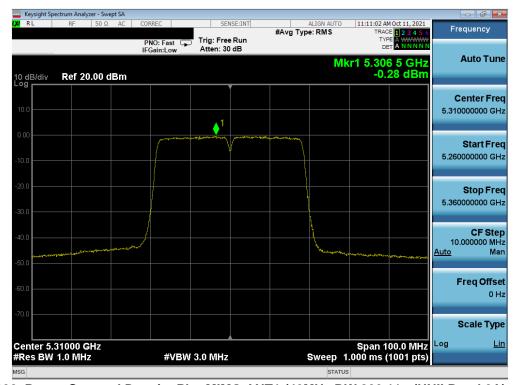
Plot 7-200. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

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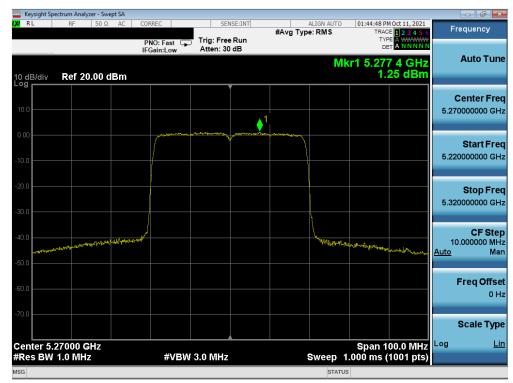
Plot 7-201. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



Plot 7-202. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

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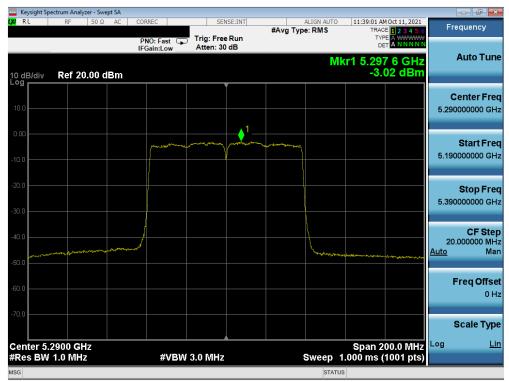
Plot 7-203. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



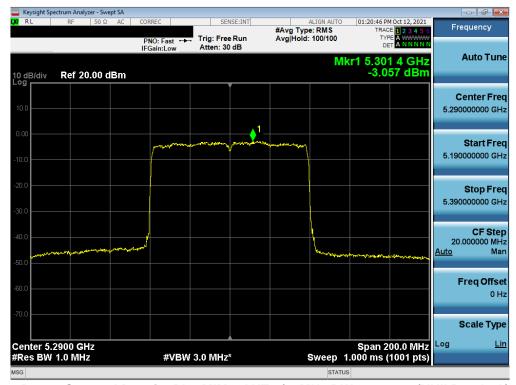
Plot 7-204. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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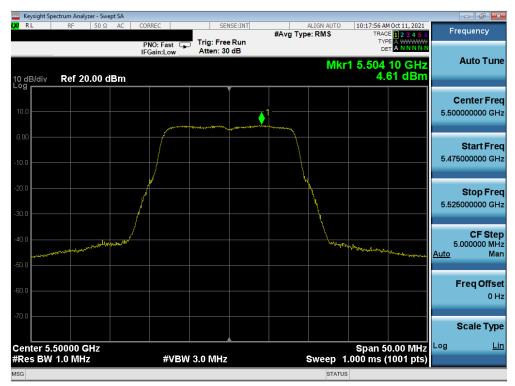
Plot 7-205. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



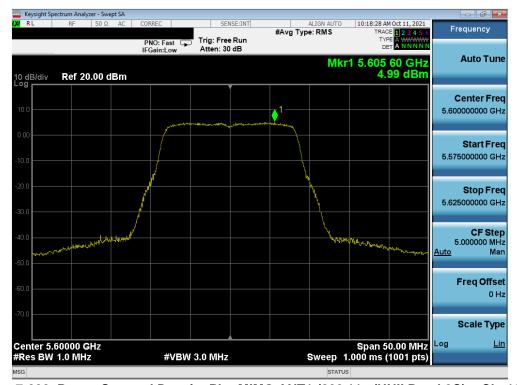
Plot 7-206. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

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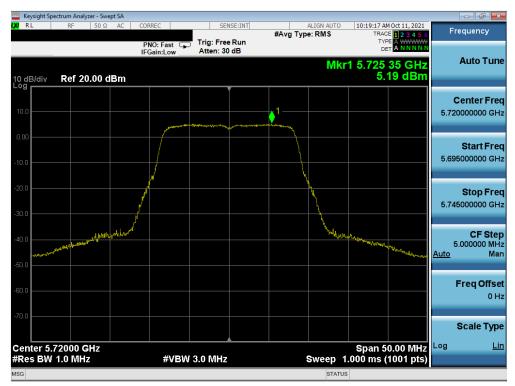
Plot 7-207. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2C) - Ch. 100)



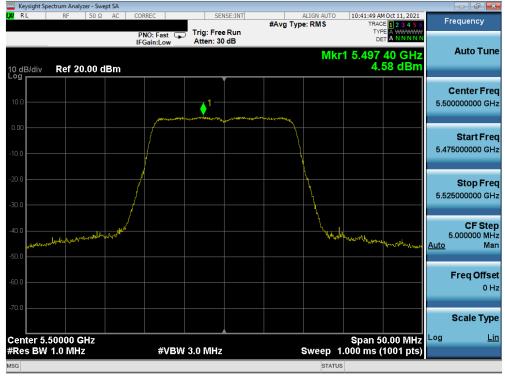
Plot 7-208. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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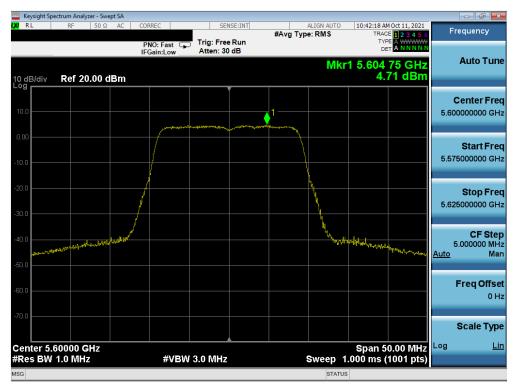
Plot 7-209. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 2C) - Ch. 144)



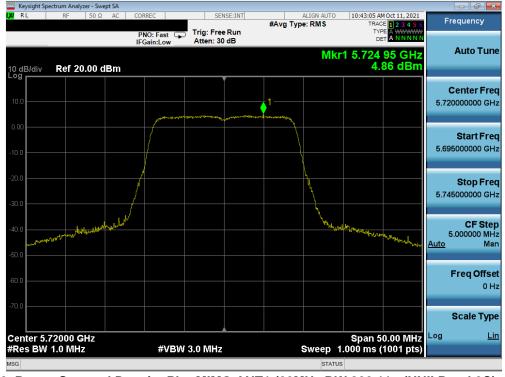
Plot 7-210. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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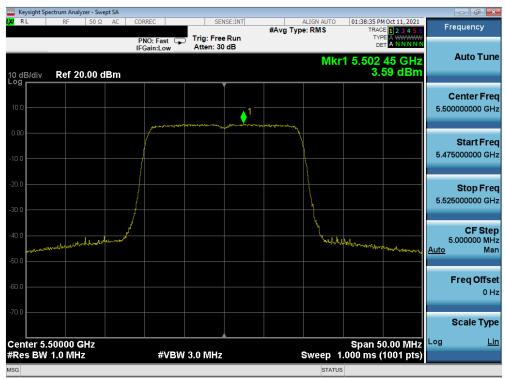
Plot 7-211. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



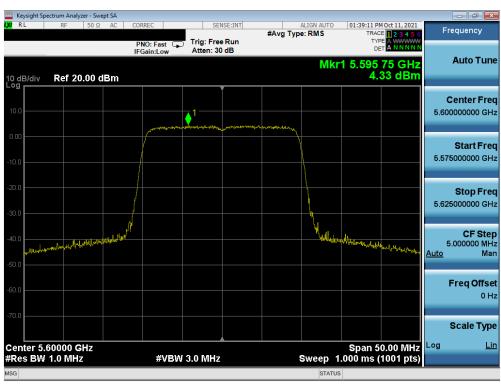
Plot 7-212. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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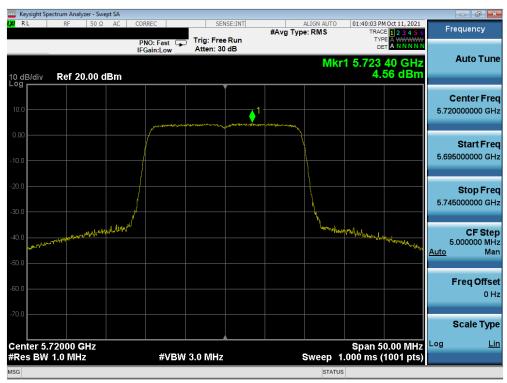
Plot 7-213. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



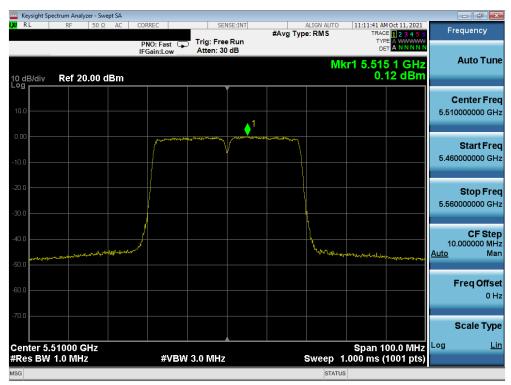
Plot 7-214. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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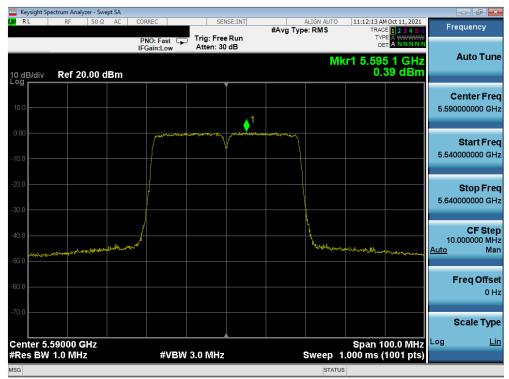
Plot 7-215. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



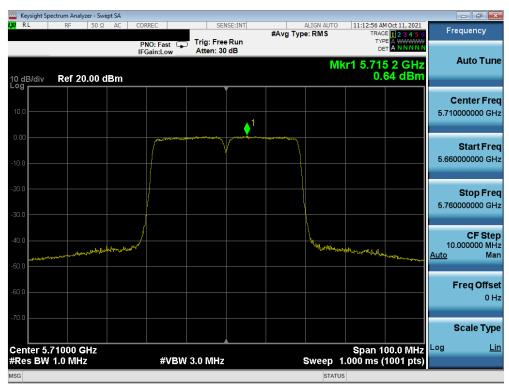
Plot 7-216. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

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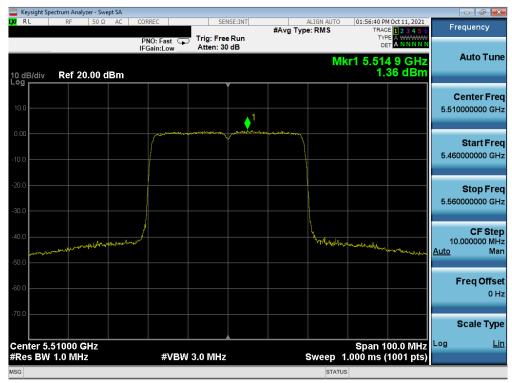
Plot 7-217. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



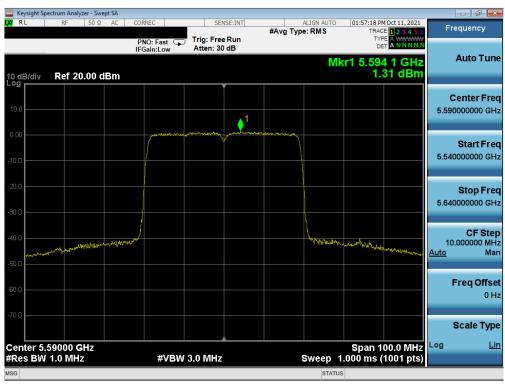
Plot 7-218. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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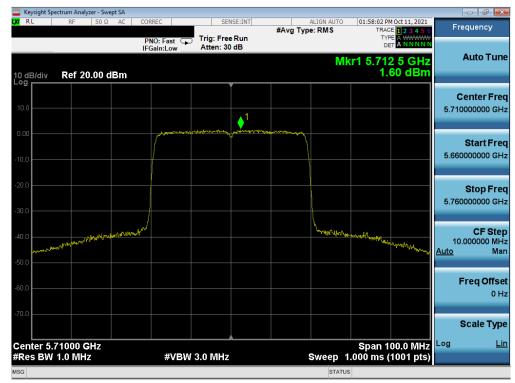
Plot 7-219. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



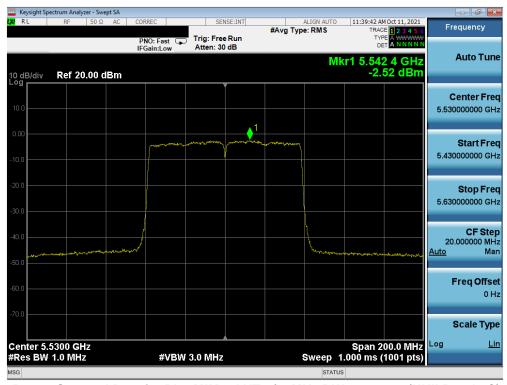
Plot 7-220. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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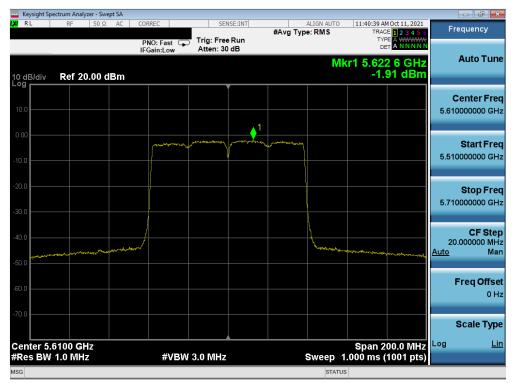
Plot 7-221. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



Plot 7-222. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

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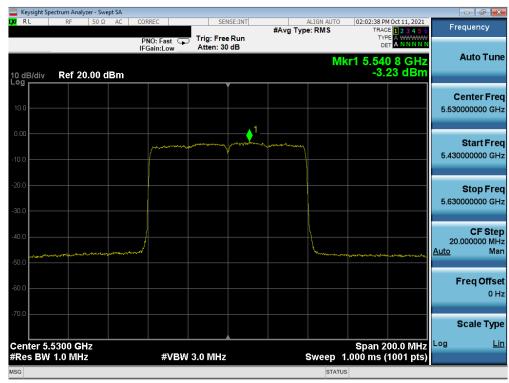
Plot 7-223. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



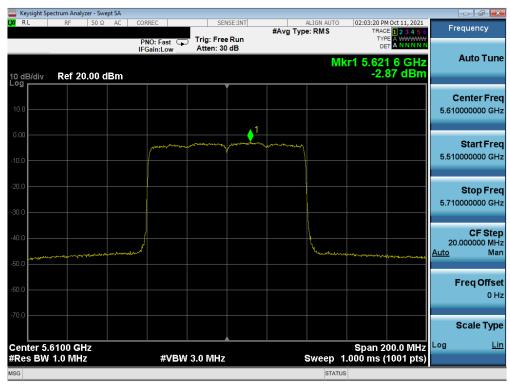
Plot 7-224. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

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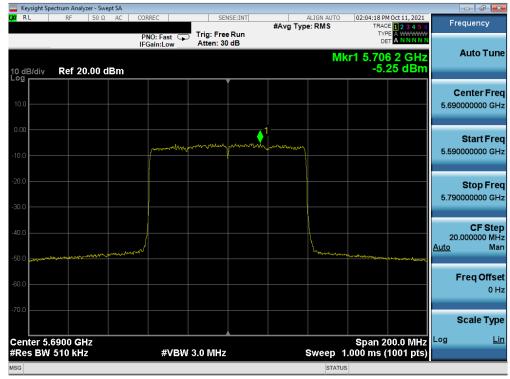
Plot 7-225. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



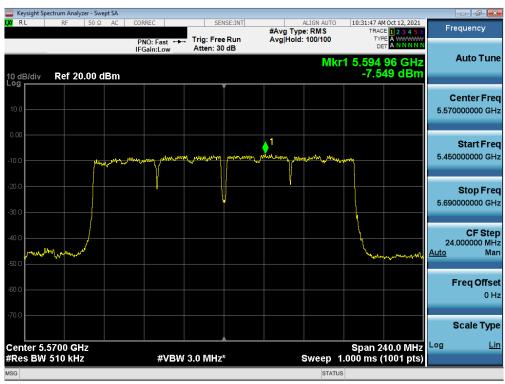
Plot 7-226. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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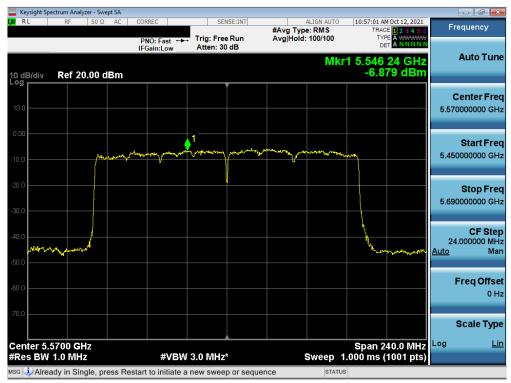
Plot 7-227. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)



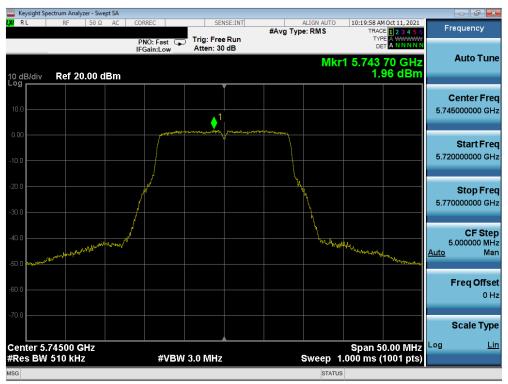
Plot 7-228. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 2C) - Ch. 114)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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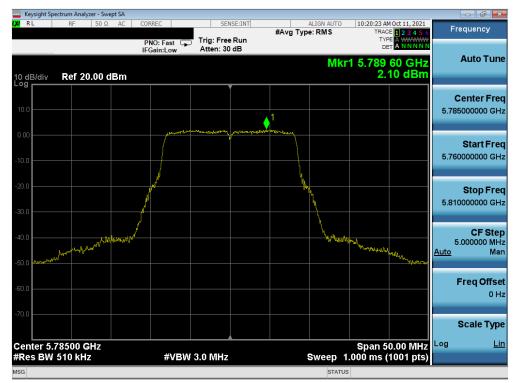
Plot 7-229. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 2C) - Ch. 114)



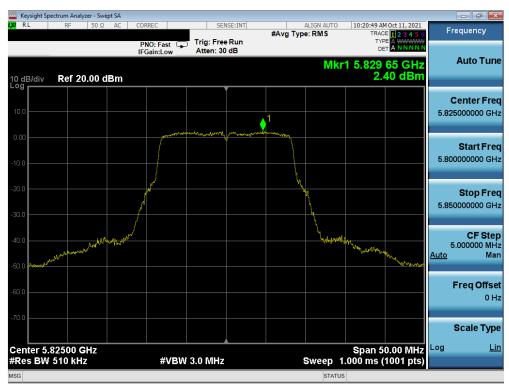
Plot 7-230. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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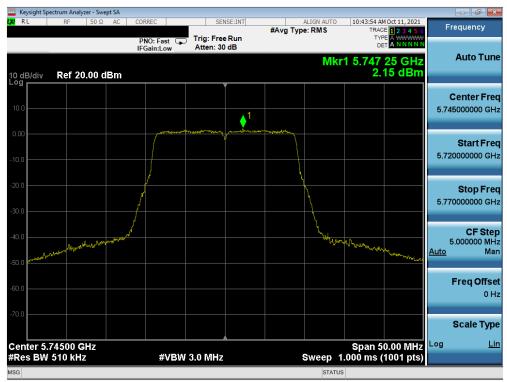
Plot 7-231. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 157)



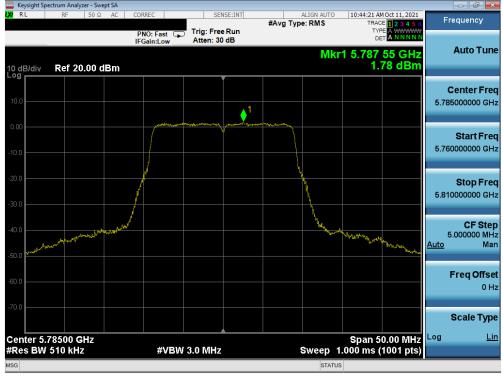
Plot 7-232. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3) - Ch. 165)

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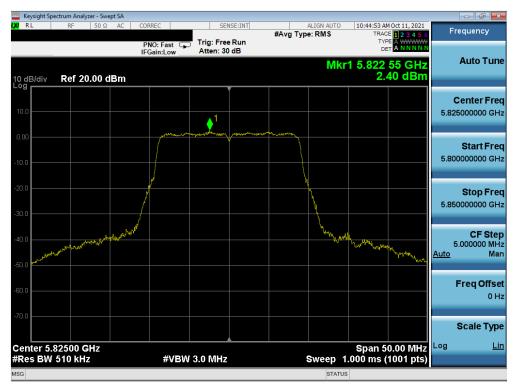
Plot 7-233. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



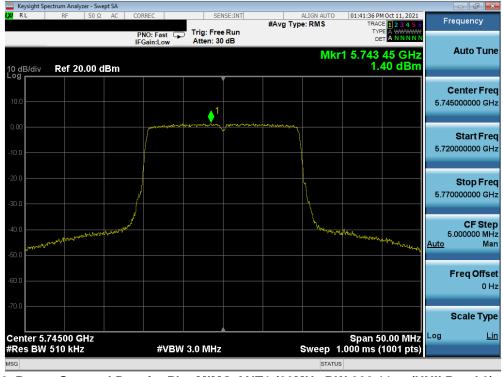
Plot 7-234. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

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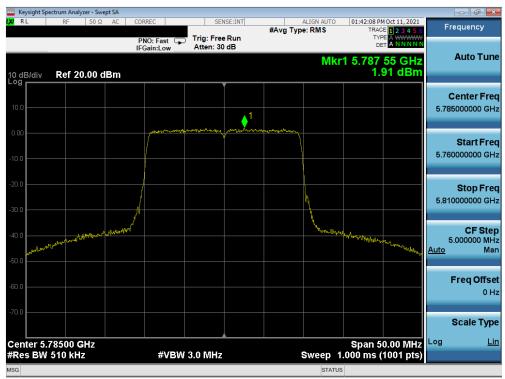
Plot 7-235. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



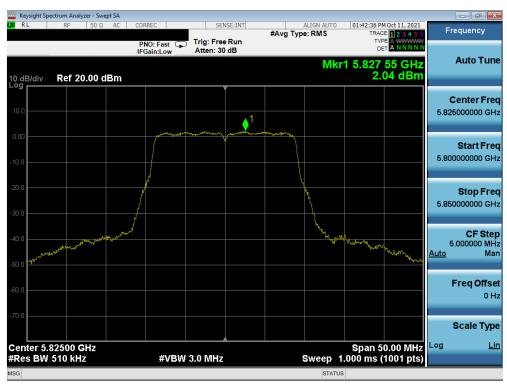
Plot 7-236. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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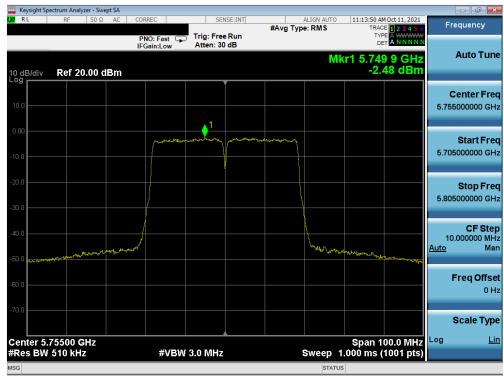
Plot 7-237. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



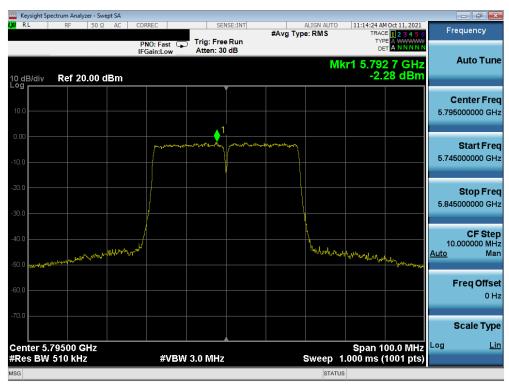
Plot 7-238. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

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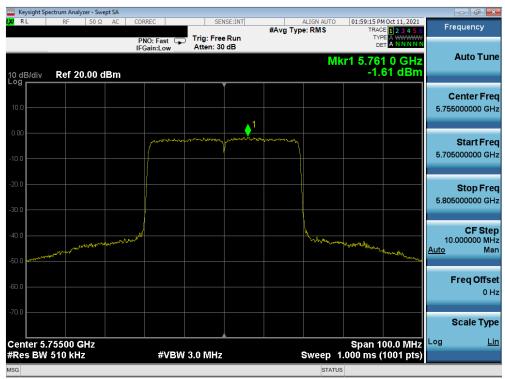
Plot 7-239. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



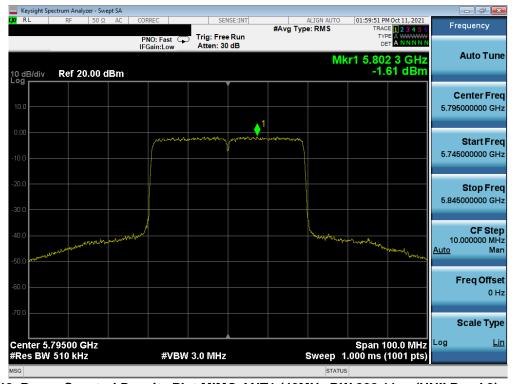
Plot 7-240. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

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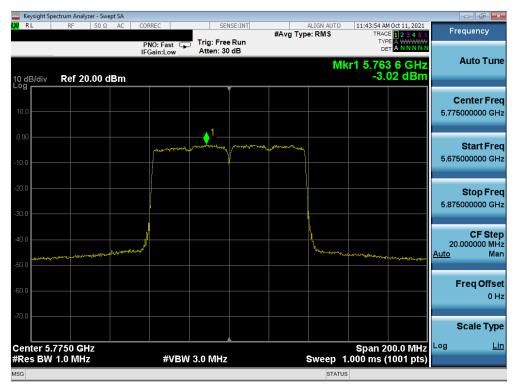
Plot 7-241. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



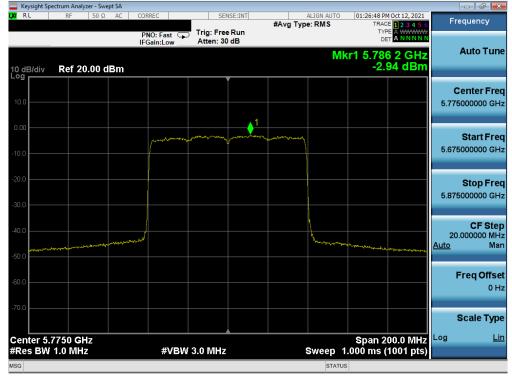
Plot 7-242. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

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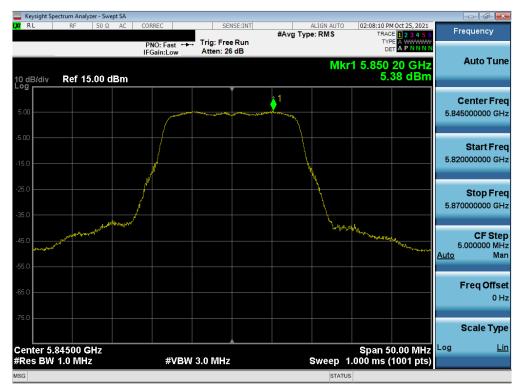
Plot 7-243. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



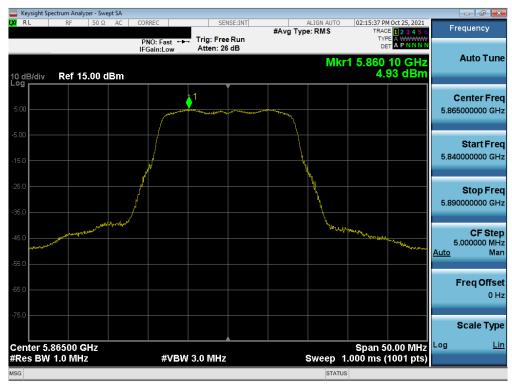
Plot 7-244. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

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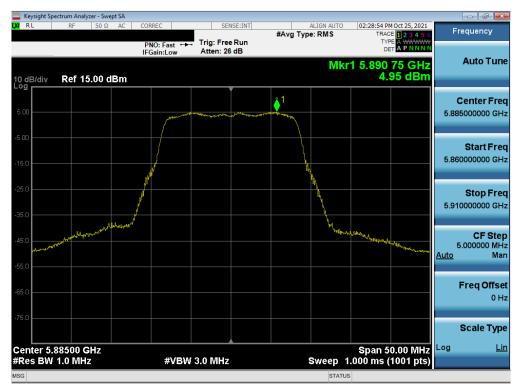
Plot 7-245. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 3/4) - Ch. 169)



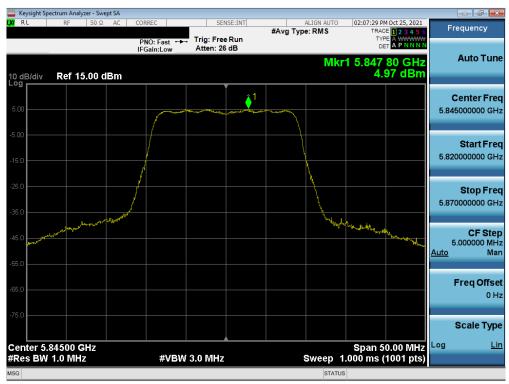
Plot 7-246. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 4) - Ch. 173)

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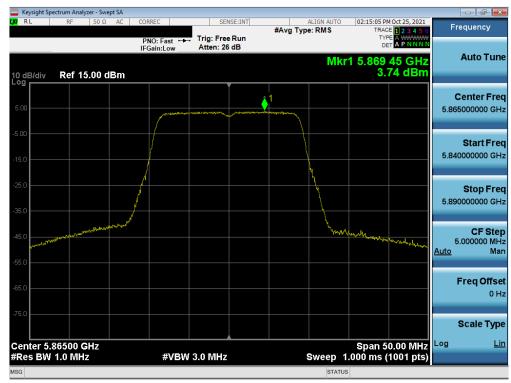
Plot 7-247. Power Spectral Density Plot MIMO ANT1 (802.11a (UNII Band 4) - Ch. 177)



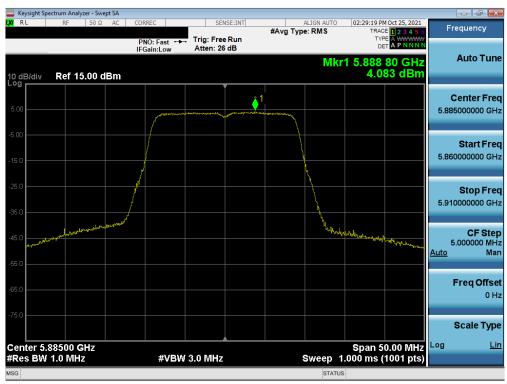
Plot 7-248. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3/4) - Ch. 169)

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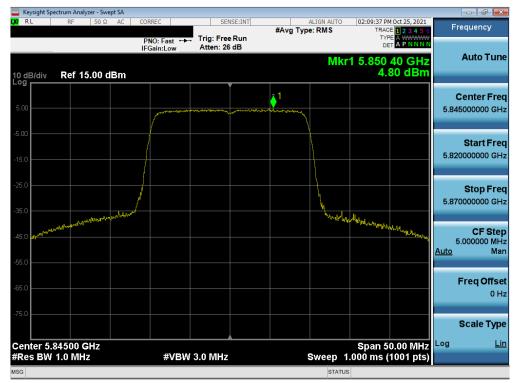
Plot 7-249. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 173)



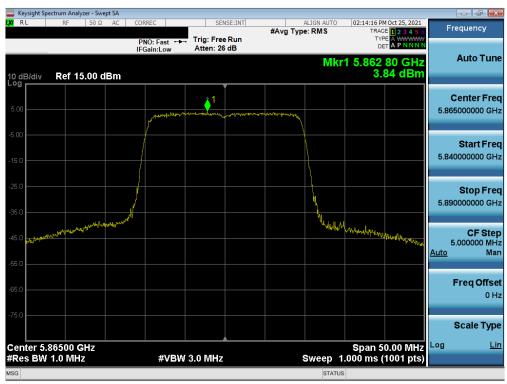
Plot 7-250. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 4) - Ch. 177)

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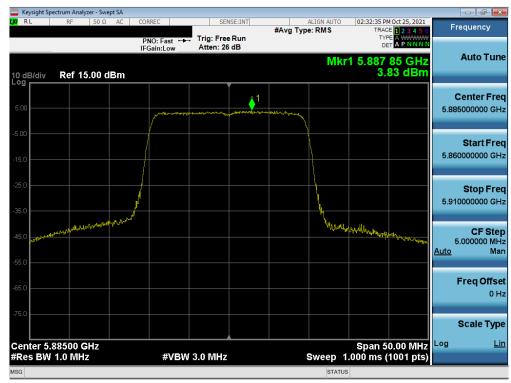
Plot 7-251. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3/4) - Ch. 169)



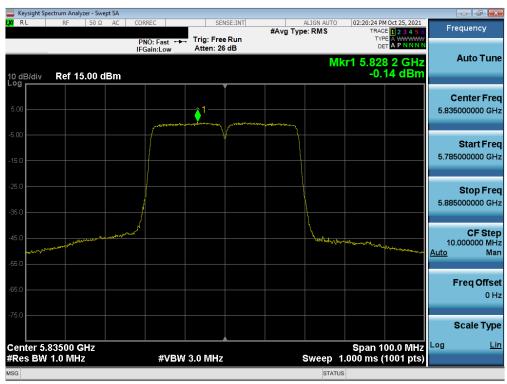
Plot 7-252. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 173)

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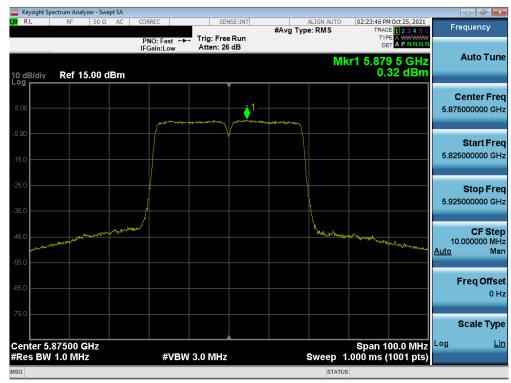
Plot 7-253. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 4) - Ch. 177)



Plot 7-254. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3/4) - Ch. 167)

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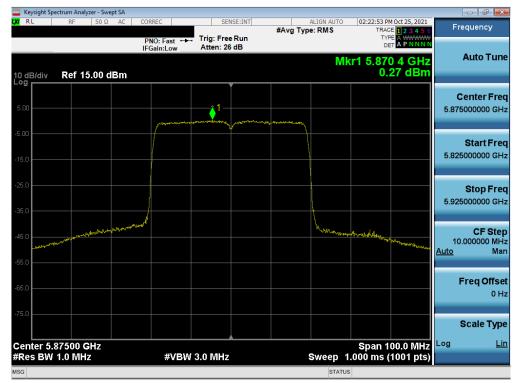
Plot 7-255. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 4) - Ch. 175)



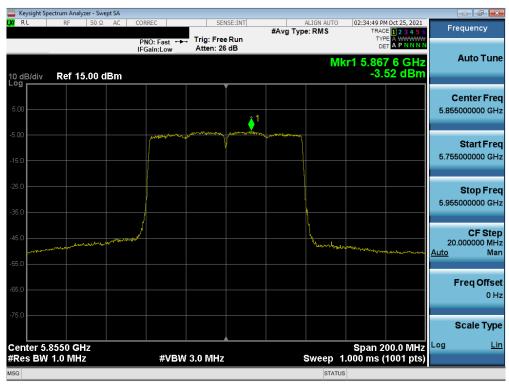
Plot 7-256. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3/4) - Ch. 167)

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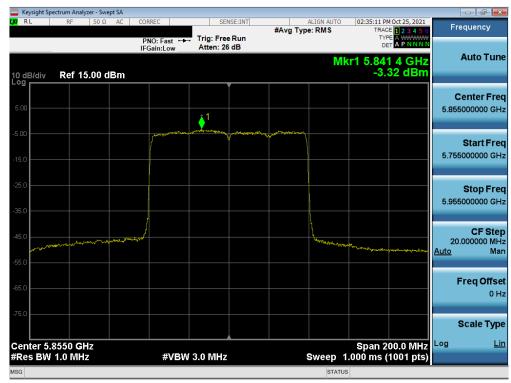
Plot 7-257. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 4) - Ch. 175)



Plot 7-258. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3/4) - Ch. 171)

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Plot 7-259. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3/4) - Ch. 171)



Plot 7-260. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ac (UNII Band 3/4) - Ch. 163)

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Plot 7-261. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax (UNII Band 3/4) - Ch. 163)

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