

Plot 7-95. Power Spectral Density MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) - Ch. 47) - SP

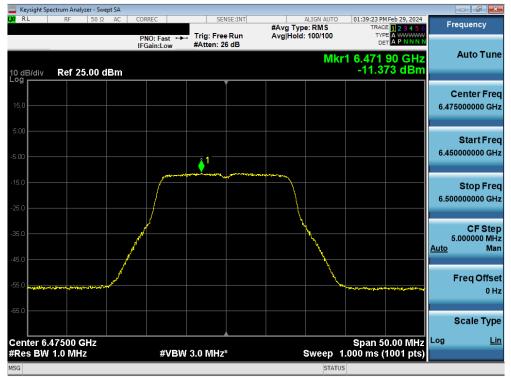


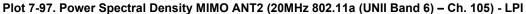
Plot 7-96. Power Spectral Density MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) - Ch.31) - SP

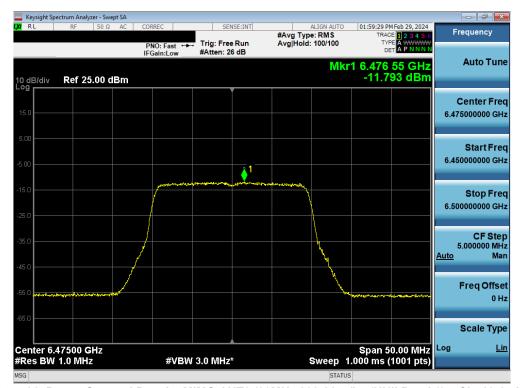
FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 77 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 77 of 169
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MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 6)



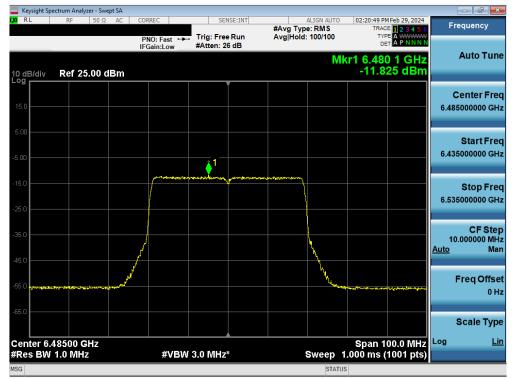




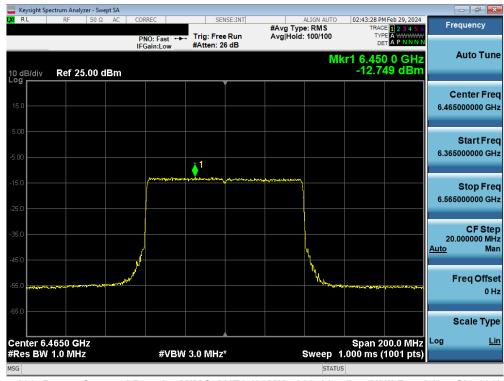
Plot 7-98. Power Spectral Density MIMO ANT2 (20MHz 802.11ax/be (UNII Band 6) – Ch. 105) - LPI

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Daga 79 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 78 of 169
© 2024 ELEMENT			V 9.0 02/01/2019





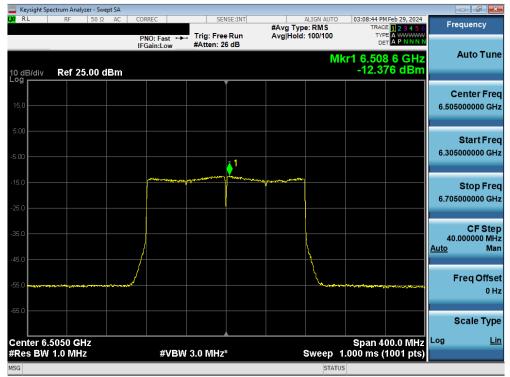
Plot 7-99. Power Spectral Density MIMO ANT2 (40MHz 802.11ax/be (UNII Band 6) - Ch. 107) - LPI



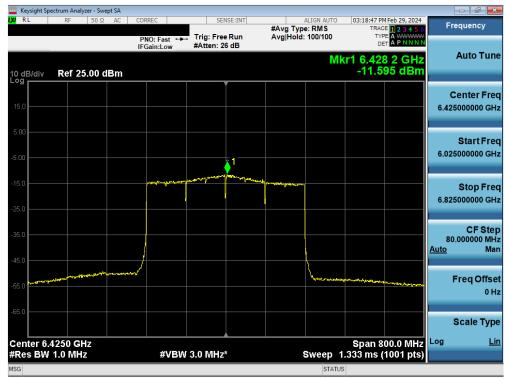
Plot 7-100. Power Spectral Density MIMO ANT2 (80MHz 802.11ax/be (UNII Band 6) - Ch. 103) - LPI

FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 70 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 79 of 169
© 2024 ELEMENT	·	·	V 9.0 02/01/2019





Plot 7-101. Power Spectral Density MIMO ANT2 (160MHz 802.11ax/be (UNII Band 6) - Ch. 111) - LPI

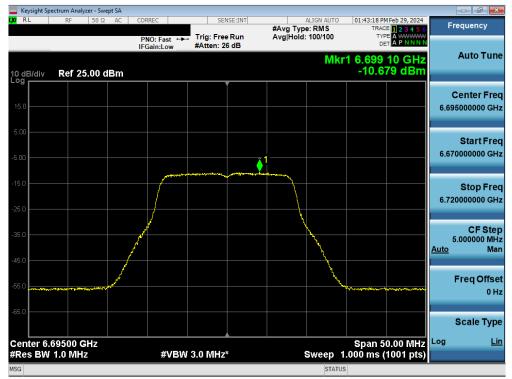


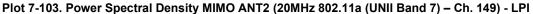
Plot 7-102. Power Spectral Density MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5/6/7) – Ch. 95) - LPI

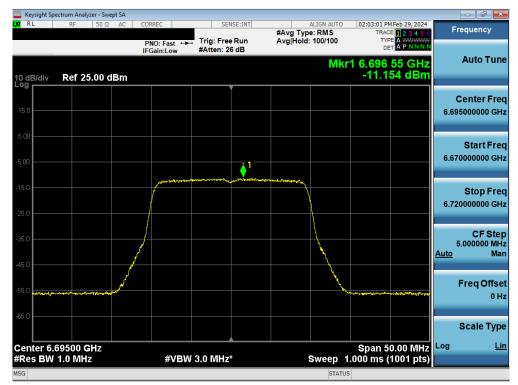
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dega 90 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 80 of 169
© 2024 ELEMENT	•	· · · · · · · · · · · · · · · · · · ·	V 9.0 02/01/2019



MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 7)



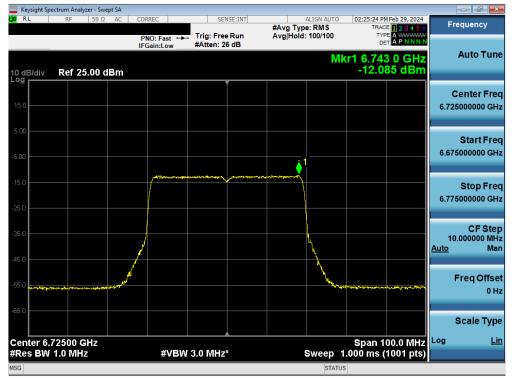




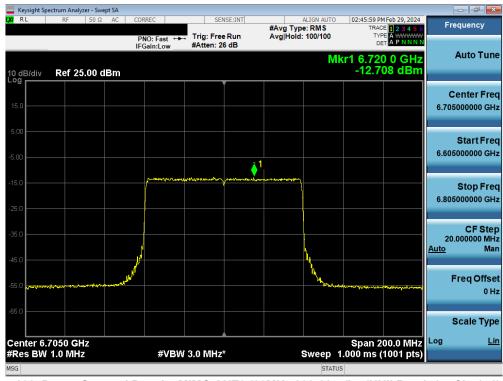
Plot 7-104. Power Spectral Density MIMO ANT2 (20MHz 802.11ax/be (UNII Band 7) - Ch. 149) - LPI

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Daga 81 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 81 of 169
© 2024 ELEMENT			V 9.0 02/01/2019





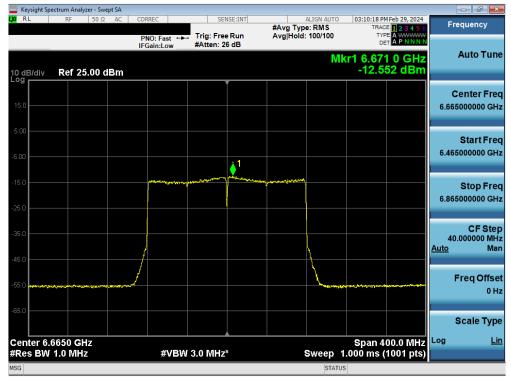
Plot 7-105. Power Spectral Density MIMO ANT2 (40MHz 802.11ax/be (UNII Band 7) - Ch. 155) - LPI



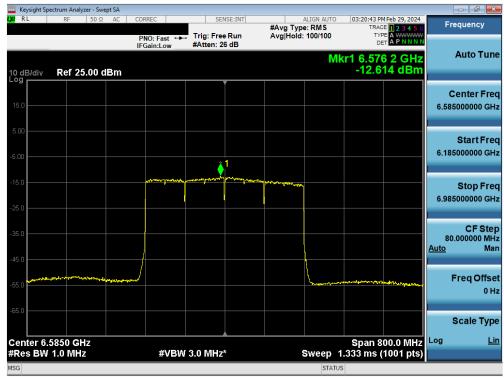
Plot 7-106. Power Spectral Density MIMO ANT2 (80MHz 802.11ax/be (UNII Band 7) - Ch. 151) - LPI

FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 92 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 82 of 169
© 2024 ELEMENT	•	·	V 9.0 02/01/2019





Plot 7-107. Power Spectral Density MIMO ANT2 (160MHz 802.11ax/be (UNII Band 7) - Ch. 143) - LPI

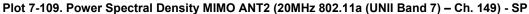


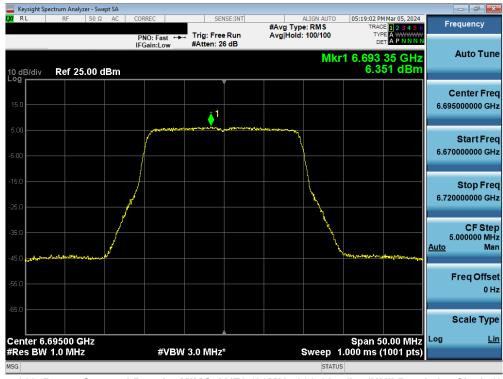
Plot 7-108. Power Spectral Density MIMO ANT2 (320MHz 802.11ax/be (UNII Band 6/7) - Ch. 127) - LPI

FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 92 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 83 of 169
© 2024 ELEMENT		·	V 9.0 02/01/2019





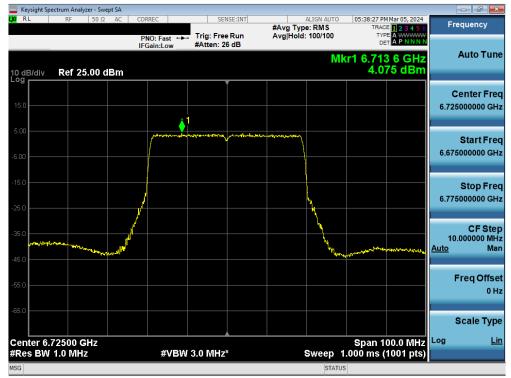


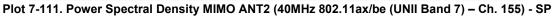


Plot 7-110. Power Spectral Density MIMO ANT2 (20MHz 802.11ax/be (UNII Band 7) - Ch. 149) - SP

FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 94 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 84 of 169
© 2024 ELEMENT	•	·	V 9.0 02/01/2019









Plot 7-112. Power Spectral Density MIMO ANT2 (80MHz 802.11ax/be (UNII Band 7) – Ch. 151) - SP

FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 95 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 85 of 169
© 2024 ELEMENT	<u>.</u>	·	V 9.0 02/01/2019



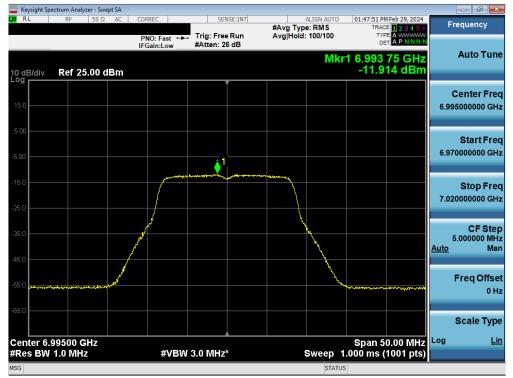


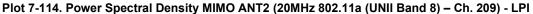
Plot 7-113. Power Spectral Density MIMO ANT2 (160MHz 802.11ax/be (UNII Band 7) - Ch. 143) - SP

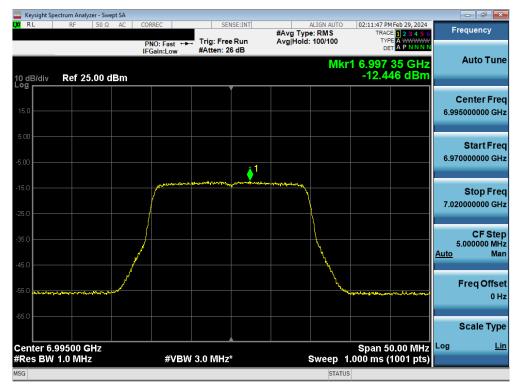
FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 96 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 86 of 169
© 2024 ELEMENT			V 9.0 02/01/2019



MIMO Antenna-2 Power Spectral Density Measurements - (UNII Band 8)



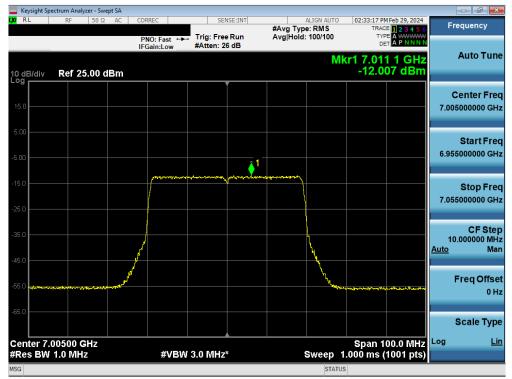




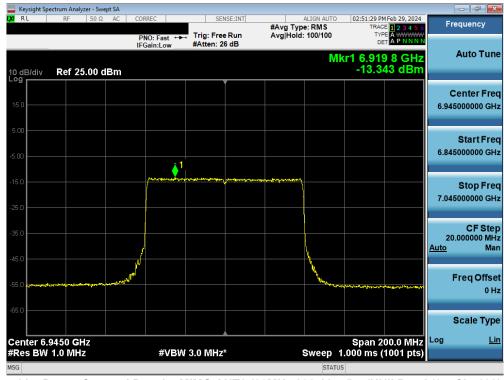
Plot 7-115. Power Spectral Density MIMO ANT2 (20MHz 802.11ax/be (UNII Band 8) – Ch. 209) - LPI

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 97 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 87 of 169
© 2024 ELEMENT	-		V 9.0 02/01/2019





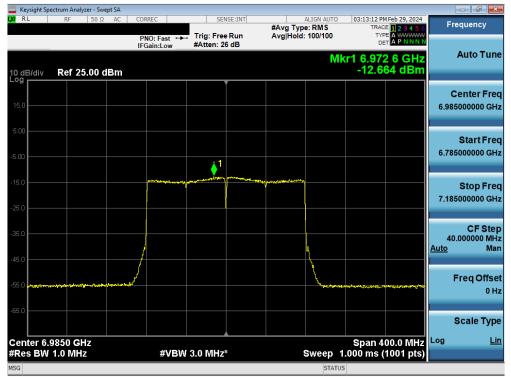
Plot 7-116. Power Spectral Density MIMO ANT2 (40MHz 802.11ax/be (UNII Band 8) - Ch. 211) - LPI



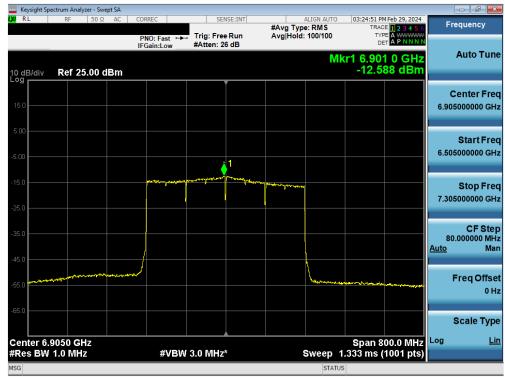
Plot 7-117. Power Spectral Density MIMO ANT2 (80MHz 802.11ax/be (UNII Band 8) - Ch. 199) - LPI

FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 89 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 88 of 169
© 2024 ELEMENT	•	•	V 9.0 02/01/2019





Plot 7-118. Power Spectral Density MIMO ANT2 (160MHz 802.11ax/be (UNII Band 8) - Ch. 207) - LPI



Plot 7-119. Power Spectral Density MIMO ANT2 (320MHz 802.11ax/be (UNII Band 7/8) - Ch. 191) - LPI

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dega 90 of 160		
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 89 of 169		
© 2024 ELEMENT		·	V 9.0 02/01/2019		



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 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 GN is the gain of the nth antenna and NANT, the total number of antennas used.

Directional gain = 10 log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})² / N_{ANT}] dBi

Sample MIMO Calculation:

At 5935MHz in 802.11a (20MHz BW) mode, the average conducted power spectral density was measured to be -12.01 dBm for Antenna-1 and -11.66 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(-12.01 dBm + -11.66 dBm) = (0.063 mW + 0.068 mW) = 0.131 mW = -8.82 dBm

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

At 5935 MHz in 802.11a (20MHz BW) mode, the average MIMO power density was calculated to be -8.82 dBm with directional gain of 6.44 dBi.

e.i.r.p. Power Spectral Density(dBm) = Power Spectral Density (dBm) + Ant gain (dBi)

-8.82 dBm + 6.44 dBi = -2.38 dBm

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dage 00 of 160			
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 90 of 169			
© 2024 ELEMENT	· · · ·		V 9.0 02/01/2019			



7.5 In-Band Emissions

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 at the appropriate frequencies.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test Procedure Used

KDB 987594 D02 v02r01

Test Settings

- 1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
- 2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10- 2013.
- 3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
- 4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW ≥ 3 X RBW
 - d) Number of points in sweep \geq [2 X span / RBW].
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- 5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
- 6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - i) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - Suppressed by 28 dB at one channel bandwidth from the channel center.
 - k) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- 7. Adjust the span to encompass the entire mask as necessary.
- 8. Clear trace.
- 9. Trace average at least 100 traces in power averaging (rms) mode.
- 10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dega 01 of 160		
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 91 of 169		
© 2024 ELEMENT			V 9.0 02/01/2019		



Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dege 02 of 160		
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 92 of 169		
© 2024 ELEMENT	·		V 9.0 02/01/2019		



	Frequency	Channel	802.11	Antenna-1	Antenna-2
	[MHz]		MODE	In-Band Emission	In-Band Emission
	5935	2	а	Pass	Pass
	6175	45	а	Pass	Pass
	6415	93	а	Pass	Pass
	5935	2	be (20MHz)	Pass	Pass
	6175	45	be (20MHz)	Pass	Pass
Band 5	6415	93	be (20MHz)	Pass	Pass
3an	5965	3	be (40MHz)	Pass	Pass
	6165	43	be (40MHz)	Pass	Pass
	6405	91	be (40MHz)	Pass	Pass
	5985	7	be (80MHz)	Pass	Pass
	6145	39	be (80MHz)	Pass	Pass
	6385	87	be (80MHz)	Pass	Pass
	6025	15	be (160MHz)	Pass	Pass
	6185 6345	47 79	be (160MHz)	Pass	Pass
			be (160MHz)	Pass	Pass
	6105 6265	31 63	be (320MHz) be (320MHz)	Pass Pass	Pass Pass
	6435	97	a a	Pass	Pass
	6475	105	a	Pass	Pass
	6515	103	a	Pass	Pass
Band 6	6435	97	be (20MHz)	Pass	Pass
Bar	6475	105	be (20MHz)	Pass	Pass
	6515	113	be (20MHz)	Pass	Pass
	6445	99	be (40MHz)	Pass	Pass
	6485	107	be (40MHz)	Pass	Pass
	6525	115	be (40MHz)	Pass	Pass
	6465	103	be (80MHz)	Pass	Pass
	6505	111	be (160MHz)	Pass	Pass
Band 5/6/7	6425	95	be (320MHz)	Pass	Pass
	6535	117	а	Pass	Pass
	6695	149	а	Pass	Pass
	6875	185	а	Pass	Pass
	6535	117	be (20MHz)	Pass	Pass
Band 7	6695	149	be (20MHz)	Pass	Pass
Bar	6875	185	be (20MHz)	Pass	Pass
	6565	123	be (40MHz)	Pass	Pass
	6725	155	be (40MHz)	Pass	Pass
	6885	179 119	be (40MHz)	Pass	Pass
	6545		be (80MHz)	Pass	Pass
	6705	151	be (80MHz)	Pass	Pass
	6865	183	be (80MHz)	Pass	Pass
	6665	143	be (160MHz)	Pass	Pass
Band 6/7	6825 6665	175 143	be (160MHz)	Pass Pass	Pass
Band 7/8	6825	145	be (160MHz) be (160MHz)	Pass	Pass Pass
build 770	6895	189	a	Pass	Pass
	6995	209	a	Pass	Pass
	7115	233	а	Pass	Pass
8 1	6895	189	be (20MHz)	Pass	Pass
Band 8	6995	209	be (20MHz)	Pass	Pass
	7115	233	be (20MHz)	Pass	Pass
	6925	187	be (40MHz)	Pass	Pass
	7005	211	be (40MHz)	Pass	Pass
	7085	227	be (40MHz)	Pass	Pass
	6945	199	be (80MHz)	Pass	Pass
	7025	215	be (80MHz)	Pass	Pass
				Deee	Dese
Band 7/8	6985 6905	207 191	be (160MHz) be (320MHz)	Pass Pass	Pass Pass

Table 7-37. In- Band Emissions Test Result – LPI

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dama 02 of 400		
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 93 of 169		
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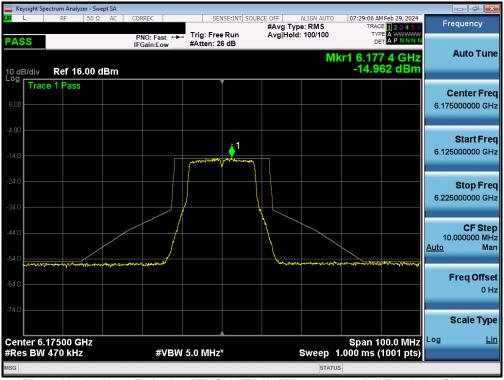
	Frequency [MHz]	Channel	802.11 MODE	In-Band Emission Ant1	In-Band Emission Ant2	
	5935	2	а	Pass	Pass	
	6175	45	а	Pass	Pass	
	6415	93	а	Pass	Pass	
	5935	2	be (20MHz)	Pass	Pass	
	6175	45	be (20MHz)	Pass	Pass	
	6415	93	be (20MHz)	Pass	Pass	
	5695	3	be (40MHz)	Pass	Pass	
Band 5	6165	43	be (40MHz)	Pass	Pass	
Bar	6405	91	be (40MHz)	Pass	Pass	
	5985	7	be (80MHz)	Pass	Pass	
	6145	39	be (80MHz)	Pass	Pass	
	6385		be (80MHz)	Pass	Pass	
	6025	15	be (160MHz)	Pass	Pass	
	6185	47	be (160MHz) Pass		Pass	
	6345	79	be (160MHz)	Pass	Pass	
	6105	31	be (320MHz)	Pass	Pass	
	6535	117	а	Pass	Pass	
	6695	149	а	Pass	Pass	
	6875	185	а	Pass	Pass	
	6535	117	be (20MHz)	Pass	Pass	
	6695	149	be (20MHz)	Pass	Pass	
2	6875	185	be (20MHz)	Pass	Pass	
Band 7	6565	123	be (40MHz)	Pass	Pass	
Bai	6725	155	be (40MHz)	Pass	Pass	
	6885	179	be (40MHz)	Pass	Pass	
	6545	119	be (80MHz)	Pass	Pass	
	6705	151	be (80MHz)	Pass	Pass	
	6865	183	be (80MHz)	Pass	Pass	
	6665	143	be (160MHz)	Pass	Pass	
	6825	175	be (160MHz)	Pass	Pass	

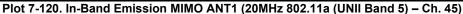
Table 7-38. In- Band Emissions Test Result – SP

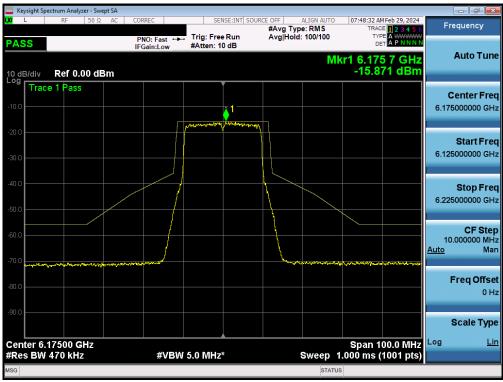
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	Test Dates: EUT Type:			
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 94 of 169		
© 2024 ELEMENT		·	V 9.0 02/01/2019		



MIMO Antenna-1 In-Band Emission Measurements - (UNII Band 5)





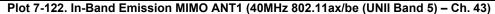


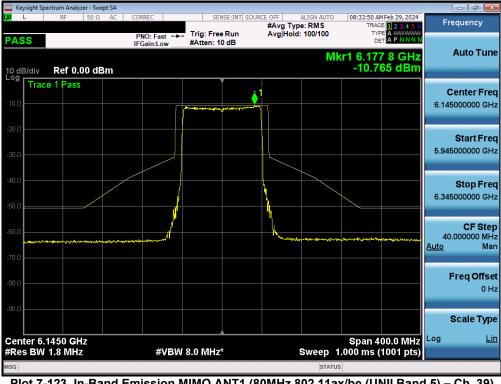
Plot 7-121. In-Band Emission MIMO ANT1 (20MHz 802.11ax/be (UNII Band 5) - Ch. 45)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Demo 05 of 160			
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 95 of 169			
© 2024 ELEMENT	•		V 9.0 02/01/2019			



🔤 Keysight Sp	ectrum Analyzer											
LXI L	RF 5	50Ω/	AC CO	RREC	SE	NSE:INT SO	URCE OFF AVG TV	ALIGN AUTO	TRAC	M Feb 29, 2024	Fr	equency
PASS				NO: Fast ↔ Gain:Low	Trig: Fre #Atten: 1		Avg Hold	I: 100/100	TYI Di			Auto Tune
10 dB/div Log	Ref 0.00	dBm	n					M	(r1 6.18) -13.8	2 6 GHz 75 dBm		Auto Tune
Trac	e 1 Pass										C	enter Freq
-10.0					manun	James and and a start of the st	♀ ¹				6.16	5000000 GHz
-20.0												Start Fred
-30.0											6.06	5000000 GHz
-40.0												Stop Fred
-50.0					[ł				6.26	5000000 GH
-30.0												CF Ster
-60.0				and the second second			have an	n Wellington and	Mont on M ^a Monton		20 <u>Auto</u>	000000 MH: Mar
-70.0												
-80.0												Freq Offse 0 Ha
-90.0												5 H.
												Scale Type
Center 6. #Res BW	1650 GHz			#\/B\	N 8.0 MHz	*		Swoon		00.0 MHz 1001 pts)	Log	Lir
	910 KHZ			#VD				Sweep		ioor pis)		





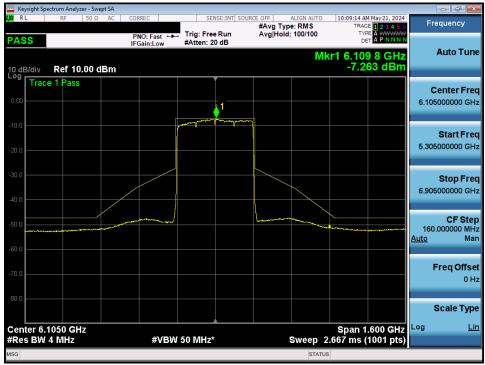
Plot 7-123. In-Band Emission MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) - Ch. 39)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dega 06 of 160			
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 96 of 169			
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🔤 Keysight Spect	rum Analyzer - Swe										
LXI L	RF 50 Ω	AC C	ORREC	SEN	ISE:INT SOU	RCE OFF AVG TVP	ALIGN AUTO	TRAC	4 Feb 29, 2024 E 1 2 3 4 5 6	Frequenc	cy
PASS			PNO: Fast ↔ FGain:Low	Trig: Free #Atten: 1		Avg Hold	: 100/100	TYP DE			
10 dB/div Log	Ref 0.00 dE	3m					Mk	r1 6.190 -8.40) 6 GHz 65 dBm	Auto	Tune
Trace	1 Pass				<mark>≬</mark> 1					Center	Freq
-10.0					and and a second second	1				6.18500000	0 GHz
-20.0										Start	Freq
-30.0										5.78500000	0 GHz
-40.0										Stop	Freq
-50.0						<u> </u>		<u> </u>		6.58500000	0 GHz
-60.0			مىلىلىرە يەرەسىسى			human	-			CF	Step
										80.00000 <u>Auto</u>	0 MHz Man
-70.0										Ence C	
-80.0										Freq C	0 Hz
-90.0											_
										Scale	
Center 6.18 #Res BW 3			#VBW	50 MHz*			Sweep_1	Span 8 .333 m <u>s (</u>	00.0 MHz 1001 pts)	Log	Lin
MSG							STATUS				

Plot 7-124. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) - Ch. 47)



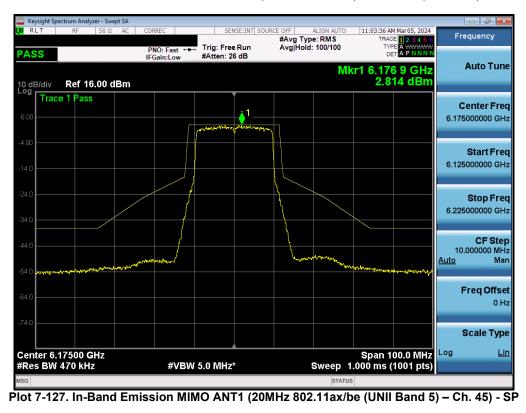
Plot 7-125. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) - Ch.31)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 07 of 400
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 97 of 169
© 2024 ELEMENT	•		V 9.0 02/01/2019



	ectrum Analyzer - Sv										
LXI RLT	RF 50 \$	Ω AC (CORREC			Avg Type		TRAC	4 Mar 05, 2024 E 1 2 3 4 5 6	Freq	uency
PASS			PNO: Fast ++- IFGain:Low	Trig: Free #Atten: 20		vg Hold:	100/100	TYF			
							Mk	r1 6.17	2 2 GHz	A	uto Tune
10 dB/div Log	Ref 16.00	dBm						3.3	73 dBm		
	e 1 Pass			^ 1						Cer	nter Frec
6.00					(Transland					6.17500	00000 GHz
-4.00			}								
-4.00				1							tart Freq
-14.0			_	/						6.12500	00000 GHz
			1	ſ	×,						
-24.0					h h	\					top Fred 10000 GHz
-34.0						1					
-44.0						<u> </u>					CF Step
						how	wr.			10.00 Auto	0000 MH2 Mar
-54.0	mar and the second second	Vargenton and					will when have	and a state of the second	hand a start and a start and a start and a start a star		
-64.0										Fre	eq Offset
-04.0											0 Hz
-74.0											
										Sc	ale Type
	17500 GHz							Span 1	00.0 MHz	Log	Lin
#Res BW	470 kHz		#VBW	5.0 MHz'	¥		Sweep 1.	000 ms (1001 pts)		
MSG							STATUS				

Plot 7-126. In-Band Emission MIMO ANT1 (20MHz 802.11a (UNII Band 5) - Ch. 45) - SP



 FCC ID: C3K2077 IC: 3048A-2077
 MEASUREMENT REPORT
 Approved by: Technical Manager

 Test Report S/N:
 Test Dates:
 EUT Type: 12/14/2023 - 05/20/2024
 Portable Computing Device
 Page 98 of 169

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 V 9.0 02/01/2019
 V 9.0 02/01/2019
 V 9.0 02/01/2019



🔤 Keysight Spectrum Analyzer - Swep					
LX/ RLT RF 50Ω	AC CORREC	SENSE:INT SOU	RCE OFF ALIGN AUTO #Avg Type: RMS	11:25:51 AM Mar 05, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast ↔ IFGain:Low	. Trig: Free Run #Atten: 26 dB	Avg Hold: 100/100	TYPE A WWWW DET A P N N N N	A. 4. T
10 dB/div Ref 16.00 d	Bm		MI	(r1 6.151 4 GHz 2.690 dBm	Auto Tune
6.00	[1 /************************************	וו		Center Freq 6.165000000 GHz
-4.00					Start Freq 6.065000000 GHz
-24.0					Stop Freq 6.265000000 GHz
-44.0	man and a second and		have a second a secon	and the second and th	CF Step 20.000000 MHz <u>Auto</u> Man
-64.0					Freq Offsel 0 Hz
-74.0					Scale Type
Center 6.1650 GHz #Res BW 910 kHz	#VBW	8.0 MHz*	Sweep	Span 200.0 MHz 1.000 ms (1001 pts)	Log <u>Lin</u>
MSG			STATU	S	

Plot 7-128. In-Band Emission MIMO ANT1 (40MHz 802.11ax/be (UNII Band 5) - Ch. 43) - SP



Plot 7-129. In-Band Emission MIMO ANT1 (80MHz 802.11ax/be (UNII Band 5) - Ch. 39) - SP

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	est Dates: EUT Type:			
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 99 of 169		
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Plot 7-130. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 5) - Ch. 47) - SP

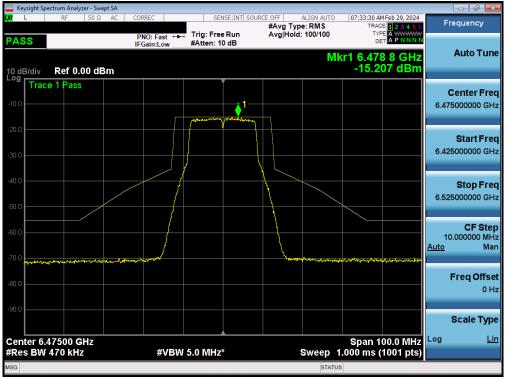


Plot 7-131. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5) - Ch.31) - SP

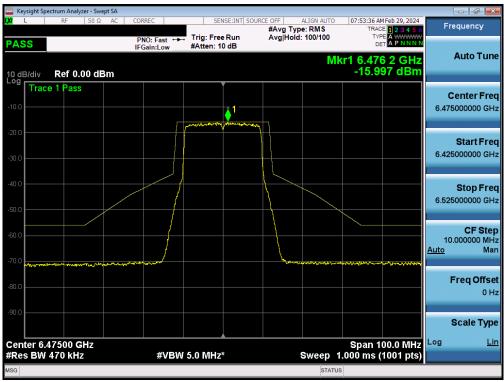
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 100 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 100 of 169
© 2024 ELEMENT			V 9.0 02/01/2019



MIMO Antenna-1 In-Band Emission Measurements - (UNII Band 6)



Plot 7-132. In-Band Emission MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 105)



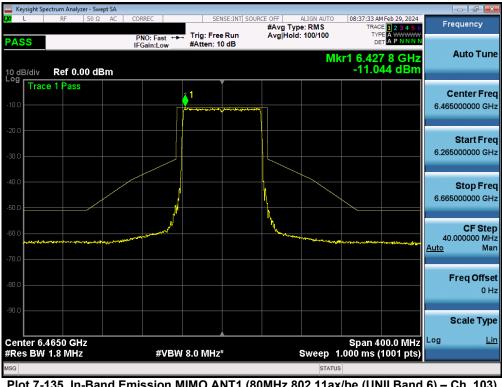
Plot 7-133. In-Band Emission MIMO ANT1 (20MHz 802.11ax/be (UNII Band 6) - Ch. 105)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	st Dates: EUT Type:		
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 101 of 169	
© 2024 ELEMENT	·	·	V 9.0 02/01/2019	



🔤 Keysight Spe	ectrum Analyzer - Sv						
L <mark>XI</mark> L	RF 50 S	Ω AC (CORREC	SENSE:INT SOU	RCE OFF ALIGN AUTO #Avg Type: RMS	08:14:57 AM Feb 29, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Fast ++ IFGain:Low	 Trig: Free Run #Atten: 10 dB 	Avg Hold: 100/100	DET A P N N N N	
10 dB/div	Ref 0.00 d	Bm			M	(r1 6.491 6 GHz -13.071 dBm	Auto Tune
-10.0	e 1 Pass			1			Center Freq 6.485000000 GHz
-20.0							Start Freq 6.385000000 GHz
-40.0							Stop Freq 6.585000000 GHz
-60.0		mannal	us man and a		A Antonio and Antonio and A Antonio and A Antonio and A Antonio and A An		CF Step 20.000000 MHz <u>Auto</u> Mar
-80.0							Freq Offse 0 H:
-90.0							Scale Type
Center 6.4 #Res BW			#VBW	8.0 MHz*	Sweep 1	Span 200.0 MHz .000 ms (1001 pts)	
MSG					STATUS	3	

Plot 7-134. In-Band Emission MIMO ANT1 (40MHz 802.11ax/be (UNII Band 6) - Ch. 107)



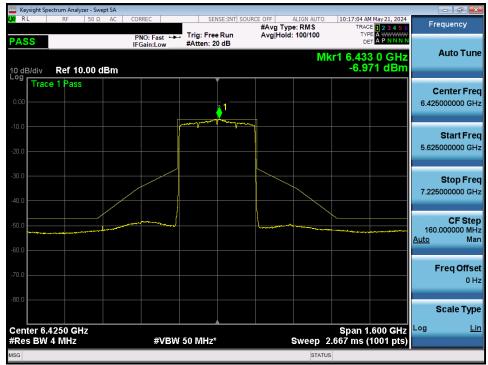
Plot 7-135. In-Band Emission MIMO ANT1 (80MHz 802.11ax/be (UNII Band 6) - Ch. 103)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	st Dates: EUT Type:			
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 102 of 169		
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🔤 Keysight Sp	ectrum Analyzer - Sw									_	
LXI L	RF 50 Ω	AC C	ORREC	SEN	ISE:INT SOURCE	OFF /	ALIGN AUTO e: RMS		HFeb 29, 2024	Fr	equency
PASS			PNO: Fast ↔ FGain:Low	Trig: Free #Atten: 10	Run	Avg Hold:	100/100	TYF DE			Auto Tune
10 dB/div Log	Ref 0.00 dl	Зm						-7.7	72 dBm		
-10.0	e 1 Pass				1						Center Freq 5000000 GHz
-20.0											
-30.0										6.10	Start Freq 5000000 GHz
-40.0											
-40.0										6.90	Stop Freq 5000000 GHz
-60.0	the second s	-	anumbered			Line					CF Step
-70.0										80 <u>Auto</u>	.000000 MHz Man
-80.0										1	Freq Offset 0 Hz
-90.0											0 Hz
											Scale Type
Center 6. #Res BW	5050 GHz 3.0 MHz		#VBW	50 MHz*			Sweep 1	Span 8 .333 ms (00.0 MHz 1001 pts)	Log	<u>Lin</u>
MSG							STATUS				

Plot 7-136. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 6) - Ch. 111)

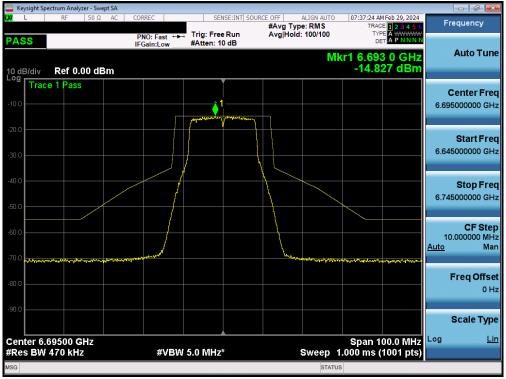


Plot 7-137. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 5/6/7) - Ch. 95)

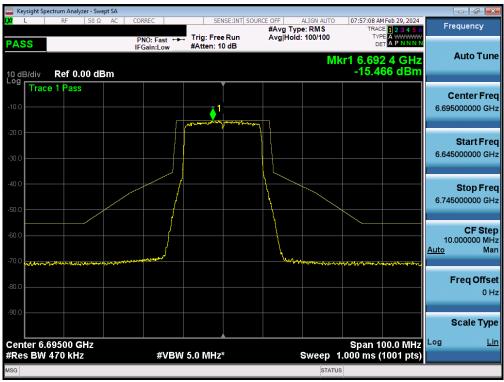
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	t Dates: EUT Type:	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 103 of 169
© 2024 ELEMENT	•		V 9.0 02/01/2019



MIMO Antenna-1 In-Band Emission Measurements - (UNII Band 7)



Plot 7-138. In-Band Emission MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 149)



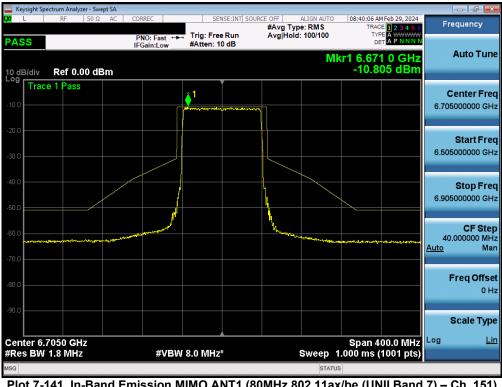
Plot 7-139. In-Band Emission MIMO ANT1 (20MHz 802.11ax/be (UNII Band 7) - Ch. 149)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	st Dates: EUT Type:		
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 104 of 169	
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Keysight Sp	ectrum Analyzer - Sv										
<mark>XI</mark> L	RF 50 Ω	2 AC C	ORREC	SEN	ISE:INT SOURCE		ALIGN AUTO e: RMS	TRAC	4 Feb 29, 2024 E 1 2 3 4 5 6	Fr	equency
PASS			PNO: Fast 🔸	Trig: Free #Atten: 1		Avg Hold:	100/100	TYF			
							Mk	r1 6.70	7 2 GHz 11 dBm		Auto Tune
10 dB/div Log	Ref 0.00 d	Bm						-13.0	11 dBm		
Trac	e 1 Pass			, '						(Center Fred
-10.0				∮ ¹							5000000 GHz
				hannen		1					
-20.0											Start Free
-30.0						1				6.62	5000000 GHz
-40.0											Stop Free
-50.0										6.82	5000000 GH:
-30.0						{					
-60.0			/			<u> </u>				20	CF Step 0.000000 MH
*****	Manuture	-	man and a star			Jungen	man and the second	water and a strain of the stra	hanna an	Auto	Mar Mar
-70.0											
-80.0											Freq Offse
-00.0											0 H:
-90.0											
											Scale Type
	7250 GHz			· · · · · · · · · · · · · · · · · · ·				Span 2	21 1141 2.00	Log	Lin
#Res BW	910 kHz		#VBW	8.0 MHz	ť		Sweep 1	.000 ms (1001 pts)		
//SG							STATUS				

Plot 7-140. In-Band Emission MIMO ANT1 (40MHz 802.11ax/be (UNII Band 7) - Ch. 155)

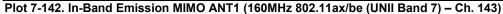


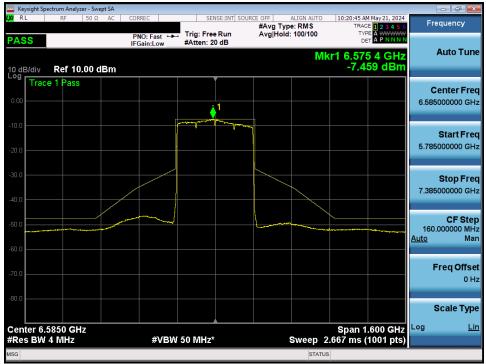
Plot 7-141. In-Band Emission MIMO ANT1 (80MHz 802.11ax/be (UNII Band 7) - Ch. 151)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Dega 105 of 160				
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 105 of 169				
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Keysight Spectrum Analyzer - Swept SA											
LXI L	RF 50 Ω	AC CC	ORREC	SEN	ISE:INT SOU	RCE OFF #Avg Typ	ALIGN AUTO	TRAC	M Feb 29, 2024	Fr	equency
PASS			PNO: Fast ↔ Gain:Low	Trig: Free #Atten: 1		Avg Hold	: 100/100	TYI Di			Auto Tuno
10 dB/div Log	Ref 0.00 dE	3m					M	(r1 6.67 -9.0	0 6 GHz 12 dBm		Auto Tune
Trace	e 1 Pass)	<u>^</u> 1					(Center Freq
-10.0						1				6.66	5000000 GHz
-20.0											Start Freq
-30.0										6.26	5000000 GHz
-40.0			1								Stop Freq
-50.0										7.06	5000000 GHz
			م المار المحمد الم			$\left\ \right\ _{1}$					CF Step
-60.0										80 <u>Auto</u>	0.000000 MHz Man
-70.0											
-80.0											Freq Offset 0 Hz
-90.0											
											Scale Type
Center 6.6 #Res BW			#VBM	í 50 MHz*			Sween 1	Span 8	00.0 MHz (1001 pts)	Log	Lin
MSG				- 00 WH12			STATU		(interpres)		



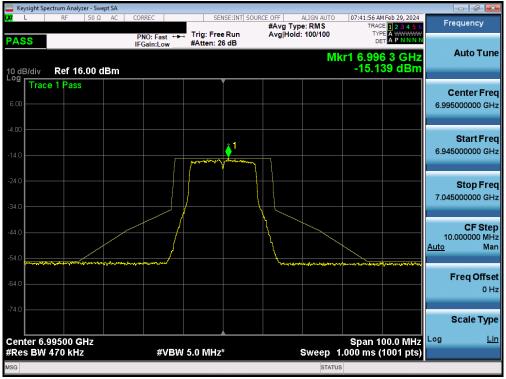


Plot 7-143. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 6/7) - Ch. 127)

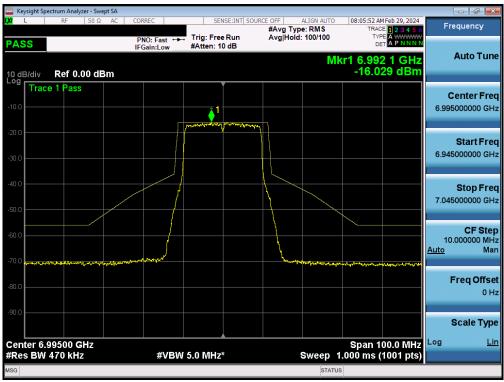
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dega 106 of 160			
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 106 of 169			
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MIMO Antenna-1 In-Band Emission Measurements - (UNII Band 8)



Plot 7-144. In-Band Emission MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 209)



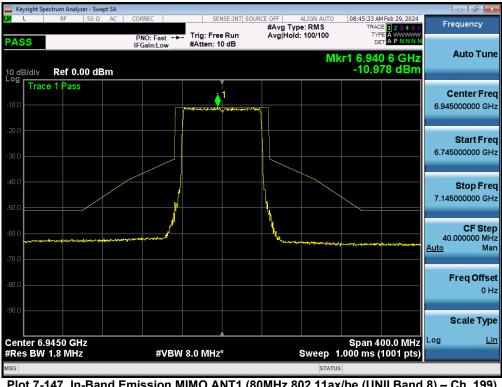
Plot 7-145. In-Band Emission MIMO ANT1 (20MHz 802.11ax/be (UNII Band 8) - Ch. 209)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Dago 107 of 160				
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 107 of 169				
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🔤 Keysight Sp	ectrum Analyzer - S							
XI L	RF 50	Ω AC	CORREC	SENSE:INT	#Avg Type:		08:28:07 AM Feb 29, 2 TRACE 1 2 3 4	Frequency
PASS			PNO: Fast +++	Trig: Free Run #Atten: 10 dB	Avg Hold: 1	00/100	DET A P N N	NNN
						Mk	r1 7.002 0 G	Hz Auto Tun
10 dB/div Log	Ref 0.00 (dBm					-12.632 dE	3 <mark>m</mark>
Trac	e 1 Pass			l l				Center Fre
-10.0				(7.005000000 GH
				and the second				
-20.0								Start Fre
-30.0								6.905000000 GH
-40.0								Stop Fre
			{		١			7.105000000 GH
-50.0								
-60.0								CF Ste
and a second	an a star and a second	margadare	us man and		M. workerson		4- 0- 00 k	20.000000 MH Auto Ma
-70.0								
~								Freq Offs
-80.0								0 H
-90.0								
								Scale Typ
Center 7.	0050 GHz			A			Span 200.0 M	
#Res BW			#VBW	8.0 MHz*	S	weep 1.	000 ms (1001 p	
MSG						STATUS		

Plot 7-146. In-Band Emission MIMO ANT1 (40MHz 802.11ax/be (UNII Band 8) - Ch. 211)



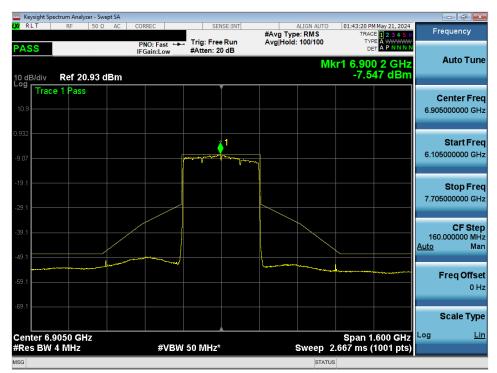
Plot 7-147. In-Band Emission MIMO ANT1 (80MHz 802.11ax/be (UNII Band 8) - Ch. 199)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT						
Test Report S/N:	Test Dates:	EUT Type:	Dogo 109 of 160					
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 108 of 169					
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Keysight Spe											
LXI L	RF 50 Ω	AC CC	ORREC	SEN	SE:INT SOURC	E OFF AVG TVP	ALIGN AUTO e: RMS	TRAC	HFeb 29, 2024	Fr	equency
PASS			PNO: Fast ↔ Gain:Low	. Trig: Free #Atten: 1		Avg Hold:		TYF DE			A
10 dB/div Log	Ref 0.00 dl	Bm					M	(r1 6.97) -8.6	7 0 GHz 46 dBm		Auto Tune
	e 1 Pass			Á	1					c	enter Freq
-10.0					لمسمور					6.98	5000000 GHz
-20.0											Start Freq
-30.0										6.58	5000000 GHz
-40.0											Stop Freq
-50.0			(1				7.38	5000000 GHz
-60.0		and the second second	hand hand hand			L Lunger					CF Step
-70.0								and a support of the second		80 <u>Auto</u>	.000000 MHz Man
											Freq Offset
-80.0											0 Hz
-90.0											Scale Type
Center 6.9								Span 8	20.0 101112	Log	Lin
#Res BW	3.0 MHz		#VBW	50 MHz*			Sweep 1	.333 ms (1001 pts)		
MSG							STATUS	6			

Plot 7-148. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 8) - Ch. 207)

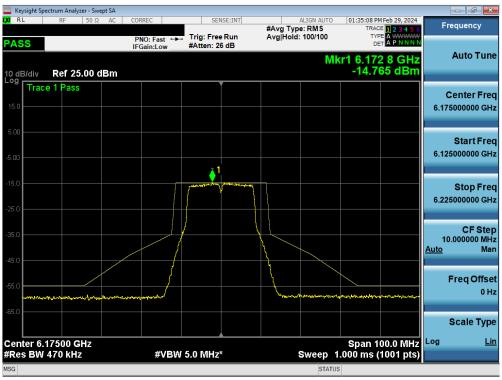


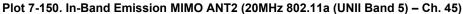
Plot 7-149. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 7/8) - Ch. 191)

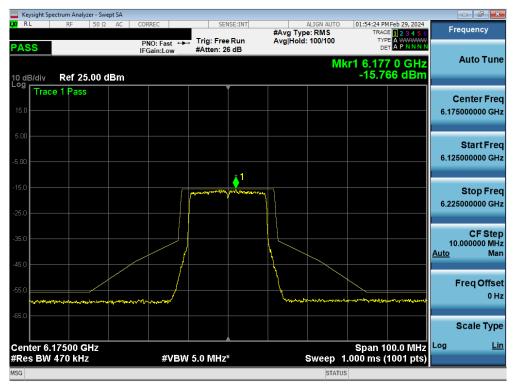
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dega 100 of 160			
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 109 of 169			
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MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 5)





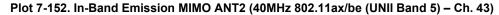


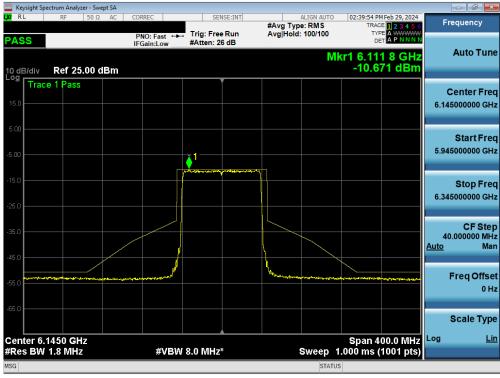
Plot 7-151. In-Band Emission MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) - Ch. 45)

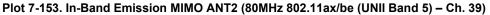
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Page 110 of 169				
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device					
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			lyzer - Swe	•									
LXI RL		RF	<u>50 Ω</u>	AC	CORRE	EC	SE	NSE:INT	#Avg Typ	ALIGN AUTO		M Feb 29, 2024	Frequency
PAS	S):Fast ↔ in:Low	, Trig: Fre #Atten: 2		Avg Hold	1: 100/100	TY D	PE A WWWWW ET A P N N N N	Auto Tune
10 dB. Log r	/div	Ref 2	5.00 d	Bm						M	kr1 6.17 -13.7	6 2 GHz 57 dBm	
15.0	Trace	1 Pas	S										Center Fred 6.165000000 GHz
5.00													
-5.00													Start Fred 6.065000000 GHz
								. ∲ ¹					
-15.0 -						ļ		V					Stop Fred 6.265000000 GHz
-25.0 -													CF Step
-35.0 -													20.000000 MHz <u>Auto</u> Man
									1				Freq Offset
-55.0		4 1 971-04	hannan ferdelang ba	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(mpatrated)	man			A submer		reader and the second secon	6 <u>0.</u> 40490.000	0 Hz
-65.0 -													Scale Type
	er 6.1(Span 2	00.0 MHz	Log <u>Lin</u>
#Res	BW 9	10 kH	IZ			#VBW	/ 8.0 MHz	*		Sweep	1.000 ms ((1001 pts)	
MSG										STATU	JS		



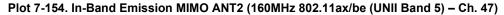


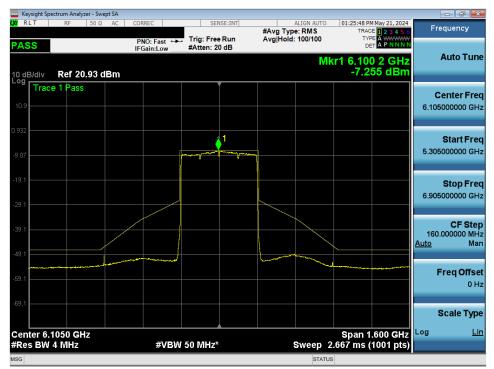


FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Dage 111 of 160				
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 111 of 169				
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	ectrum Analyzer									- 6 ×
L <mark>XI</mark> RL	RF 5	50 Ω AC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS		MFeb 29, 2024	Frequency
PASS			PNO: Fast ++ IFGain:Low	Trig: Free #Atten: 2		AvgHold		TY		Auto Tune
10 dB/div	Ref 25.0	0 dBm						-7.8	73 dBm	
Log Trac	e 1 Pass									Center Freq 6.185000000 GHz
										0.10000000 0112
5.00										Start Freq
-5.00										5.785000000 GHz
-15.0										Stop Freq
-25.0										6.585000000 GHz
										CF Step
-35.0										80.000000 MHz <u>Auto</u> Man
-45.0						hum -		\searrow		
-55.0										Freq Offset 0 Hz
-65.0										
										Scale Type
	1850 GHz		40 (D) (A)					Span 8	00.0 MHz	Log <u>Lin</u>
#Res BW	3.0 MHZ		#VBM	50 MHz*				1.333 ms (1001 pts)	
MSG							STAT	05		





Plot 7-155. In-Band Emission MIMO ANT2 (320MHz 802.11be (UNII Band 5) - Ch.31)

FCC ID: C3K2077 IC: 3048A-2077	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 112 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 112 of 169
© 2024 ELEMENT			V 9.0 02/01/2019



	ctrum Analyzer - Sw										- • ×
LXI RLT	RF 50 Ω	AC	CORREC	SEN	ISE:INT SOURCE OF	F AL	IGN AUTO		4 Mar 05, 2024 E 1 2 3 4 5 6	Fr	equency
PASS			PNO: Fast 🔸	. Trig: Free	Run Av	g Hold: 1		TY			
PASS			IFGain:Low	#Atten: 20	6 dB						Auto Tune
							Mk	r1 6.69	3 2 GHz		Auto Tune
10 dB/div	Ref 16.00 (dBm						3.7	16 dBm		
Trace	e 1 Pass				í						enter Freq
6.00				🌔 1							5000000 GHz
				Lupsonsound	honory					0.00	
-4.00											
) {						Start Freq
-14.0				J	{					6.64	5000000 GHz
					\						
-24.0					<u>}_</u>						Stop Freq
					1					6.74	5000000 GHz
-34.0					\			<u> </u>			
					1						05.04
-44.0										10	CF Step .000000 MHz
		and the second second	Marine Mark			hunn	and the source of the second			Auto	Man
-54.0	where and a state of the state							Will anyone on	www.www.		
											Freq Offset
-64.0											0 Hz
-74.0											
											Scale Type
Center 6.6	9500 GHz							Span 1	00.0 MHz	Log	Lin
#Res BW			#VBW	5.0 MHz	¥	S	weep 1.	000 ms (1001 pts)		
MSG							STATUS				

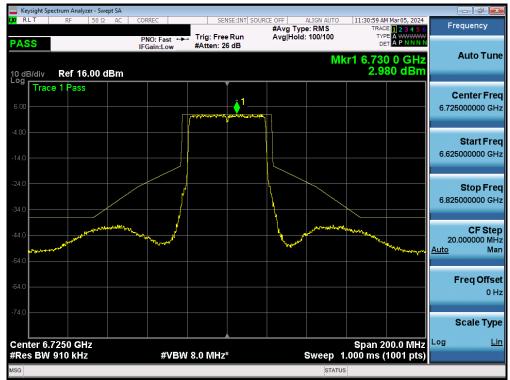
Plot 7-156. In-Band Emission MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 149) - SP



Plot 7-157. In-Band Emission MIMO ANT1 (20MHz 802.11ax/be (UNII Band 7) – Ch. 149) - SP

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 112 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 113 of 169
© 2024 ELEMENT			V 9.0 02/01/2019





Plot 7-158. In-Band Emission MIMO ANT1 (40MHz 802.11ax/be (UNII Band 7) – Ch. 155) - SP



Plot 7-159. In-Band Emission MIMO ANT1 (80MHz 802.11ax/be (UNII Band 7) - Ch. 151) - SP

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 114 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 114 of 169
© 2024 ELEMENT	·	·	V 9.0 02/01/2019





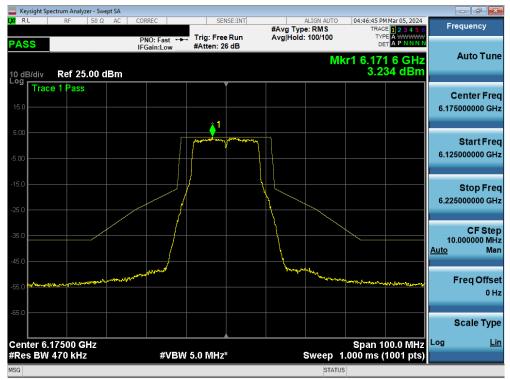
Plot 7-160. In-Band Emission MIMO ANT1 (160MHz 802.11ax/be (UNII Band 7) - Ch. 143) - SP

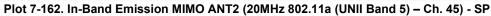


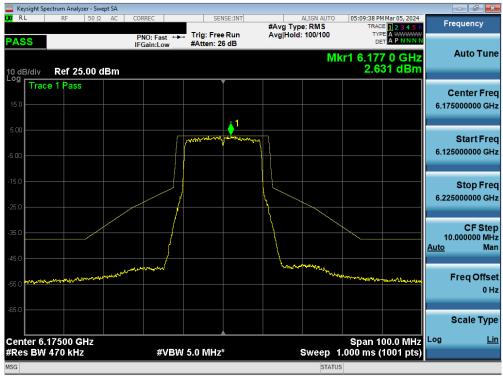
Plot 7-161. In-Band Emission MIMO ANT1 (320MHz 802.11ax/be (UNII Band 6/7) - Ch. 159) - SP

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 115 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 115 of 169
© 2024 ELEMENT	•	•	V 9.0 02/01/2019





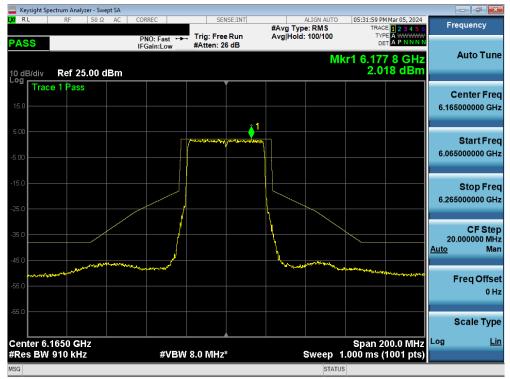




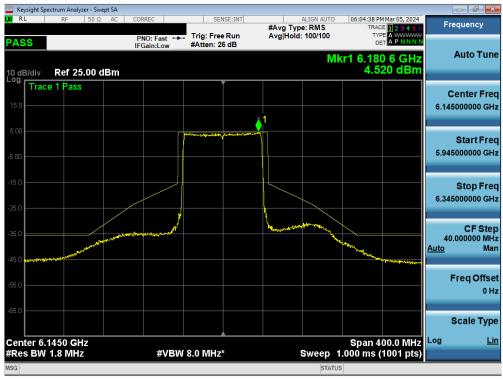
Plot 7-163. In-Band Emission MIMO ANT2 (20MHz 802.11ax/be (UNII Band 5) - Ch. 45) - SP

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 116 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 116 of 169
© 2024 ELEMENT	•		V 9.0 02/01/2019





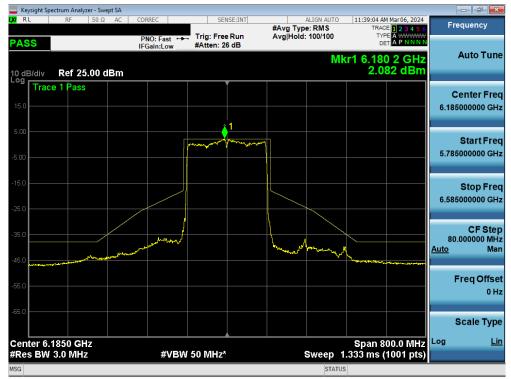




Plot 7-165. In-Band Emission MIMO ANT2 (80MHz 802.11ax/be (UNII Band 5) - Ch. 39) - SP

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dege 117 of 160	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 117 of 169	
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Plot 7-166. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 5) - Ch. 47) - SP

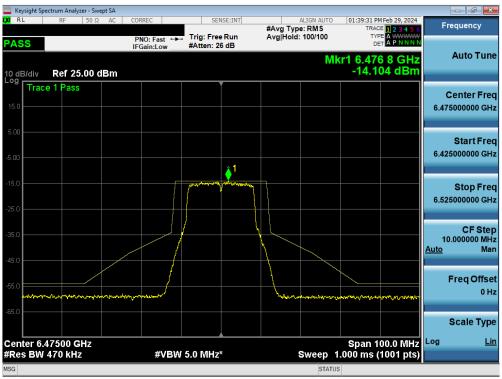


Plot 7-167. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5) - Ch.31) - SP

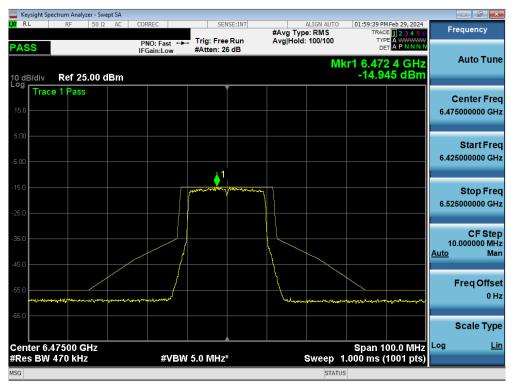
FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 110 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 118 of 169
© 2024 ELEMENT			V 9.0 02/01/2019



MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 6)



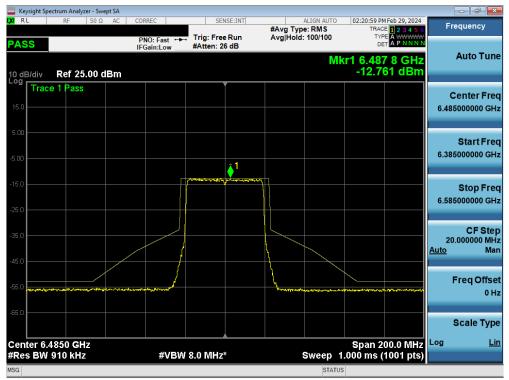
Plot 7-168. In-Band Emission MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 105)

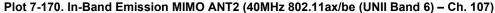


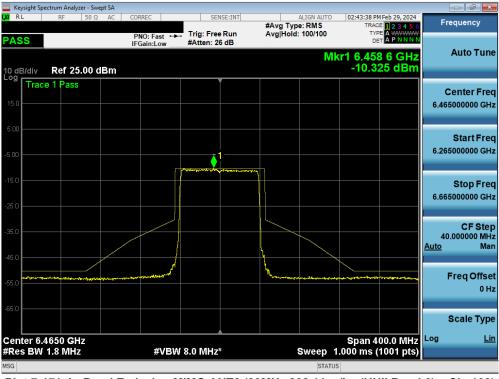
Plot 7-169. In-Band Emission MIMO ANT2 (20MHz 802.11ax/be (UNII Band 6) - Ch. 105)

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 110 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 119 of 169
© 2024 ELEMENT	•		V 9.0 02/01/2019









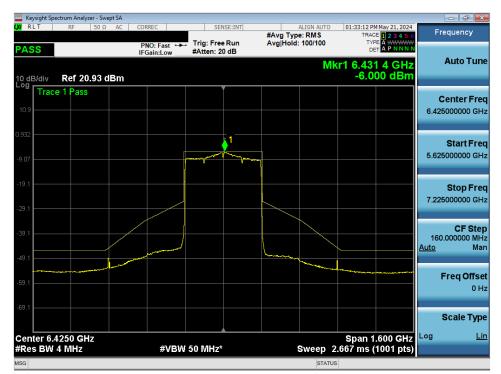
Plot 7-171. In-Band Emission MIMO ANT2 (80MHz 802.11ax/be (UNII Band 6) – Ch. 103)

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 120 of 169
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	ectrum Analyzer - Sv									- 6 🔀
L <mark>XI</mark> RL	RF 50 S	Ω AC C	ORREC	SEI	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS	03:08:56 PM TRACE	Feb 29, 2024	Frequency
PASS			PNO: Fast ↔ FGain:Low	, Trig: Free #Atten: 2		Avg Hold	: 100/100	TYPE DET	A WWWWW A P N N N N	Auto Tune
10 dB/div Log	Ref 25.00	dBm					MI	kr1 6.500 -7.86	2 GHZ 1 dBm	
Trace	e 1 Pass									Center Freq
15.0										6.505000000 GHz
5.00										
					1					Start Freq 6.105000000 GHz
-5.00				-	-	~				0.10500000 GH2
-15.0										Stop Freq
										6.905000000 GHz
-25.0										
-35.0										CF Step 80.000000 MHz
-45.0						}				<u>Auto</u> Man
-40.0						lynner		\square		Ener Offerst
-55.0										Freq Offset 0 Hz
-65.0										
										Scale Type
Center 6.	5050 GHz							Span 80	0.0 MHz	Log <u>Lin</u>
#Res BW			#VBW	/ 50 MHz*			Sweep	1.333 ms (1	001 pts)	
MSG							STATU	S		

Plot 7-172. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 6) - Ch. 111)

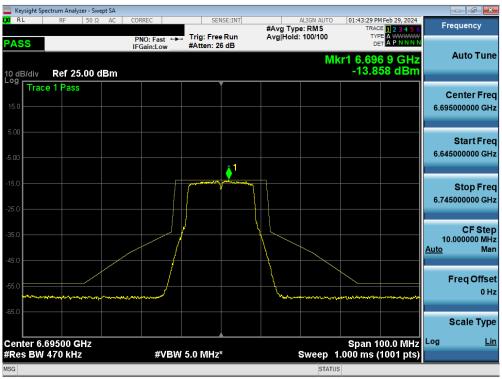


Plot 7-173. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 5/6/7) - Ch. 95)

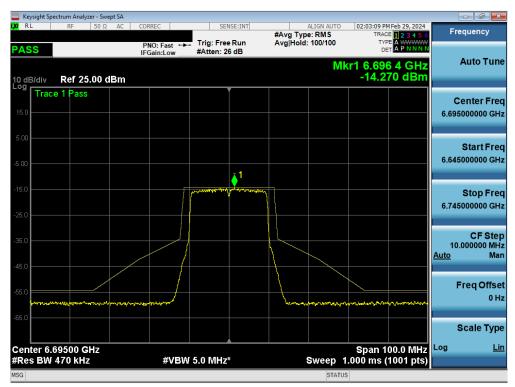
FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 101 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 121 of 169
© 2024 ELEMENT			V 9.0 02/01/2019



MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 7)



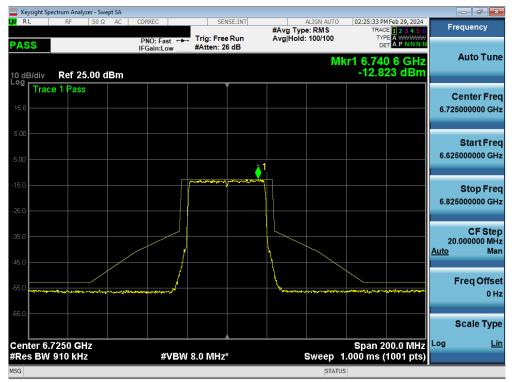
Plot 7-174. In-Band Emission MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 149)

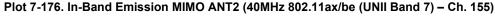


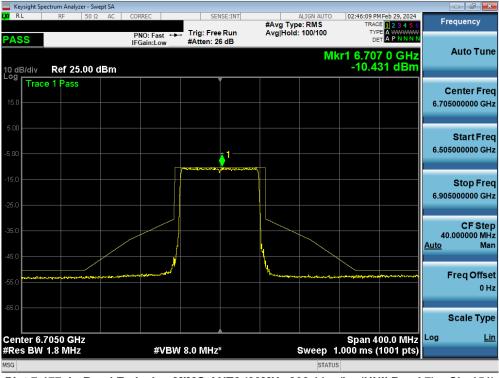
Plot 7-175. In-Band Emission MIMO ANT2 (20MHz 802.11ax/be (UNII Band 7) - Ch. 149)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Baga 122 of 160	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 122 of 169	
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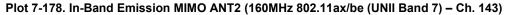


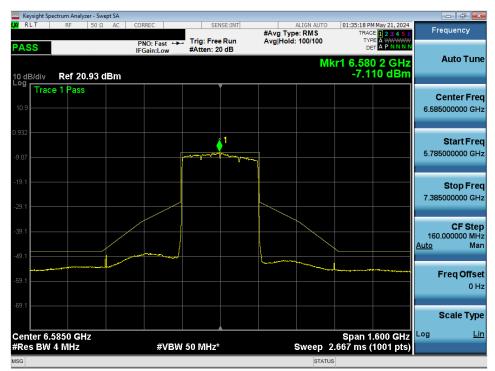
Plot 7-177. In-Band Emission MIMO ANT2 (80MHz 802.11ax/be (UNII Band 7) – Ch. 151)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dega 102 of 160	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 123 of 169	
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	sight Spec											- ē 💌
L <mark>XI</mark> RL	-	RF	50 Ω	AC C	ORREC	SE	NSE:INT	#Avg Ty	ALIGN AUTO		I Feb 29, 2024	Frequency
PAS					PNO: Fast ← FGain:Low	Trig: Fre #Atten: 2		Avg Hol	d: 100/100 M	TYF DE		Auto Tune
10 dE Log r		Ref 2		Bm			*			-0.2		
15.0 -	Irace	1 Pass										Center Freq 6.665000000 GHz
5.00 -5.00												Start Freq 6.265000000 GHz
-15.0							1 marson					Stop Freq 7.065000000 GHz
-35.0												CF Step 80.000000 MHz <u>Auto</u> Man
-45.0 -55.0	يا کارون رو ور م							Lucion			him	Freq Offset 0 Hz
-65.0 :												Scale Type
	ter 6.6				40.000				Curren	Span 8	00.0 MHz	Log <u>Lin</u>
	SBW 3	.U WIH	2		#VB	N 50 MHz				1.333 ms (TOUT pts)	
MSG									STAT	05		

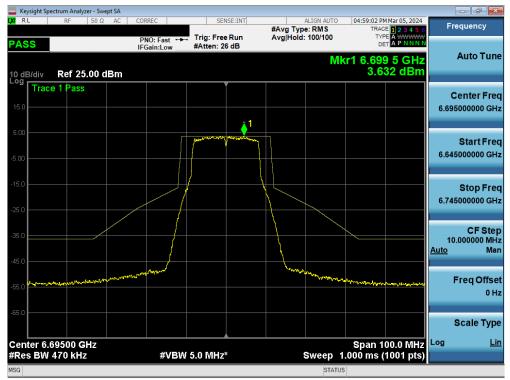


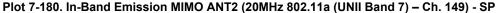


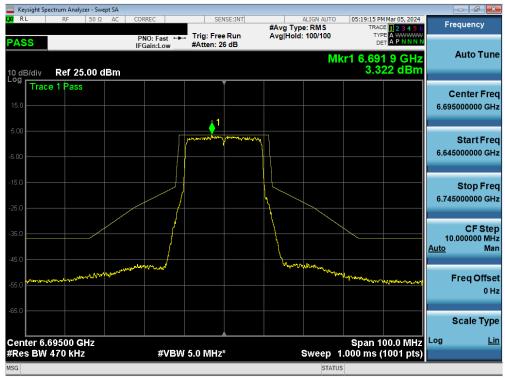
Plot 7-179. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 6/7) - Ch. 127)

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dega 124 of 160	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 124 of 169	
© 2024 ELEMENT	•		V 9.0 02/01/2019	





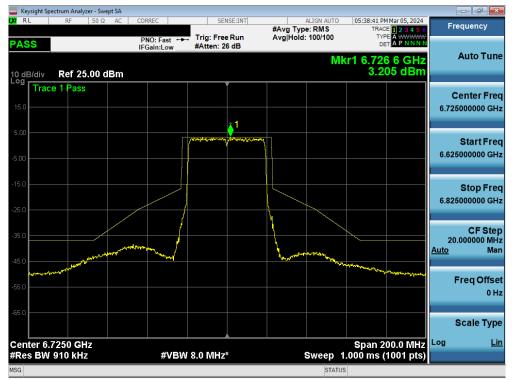




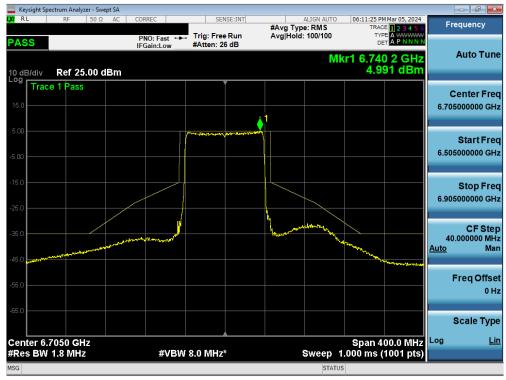
Plot 7-181. In-Band Emission MIMO ANT2 (20MHz 802.11ax/be (UNII Band 7) - Ch. 149) - SP

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 125 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 125 of 169
© 2024 ELEMENT			V 9.0 02/01/2019





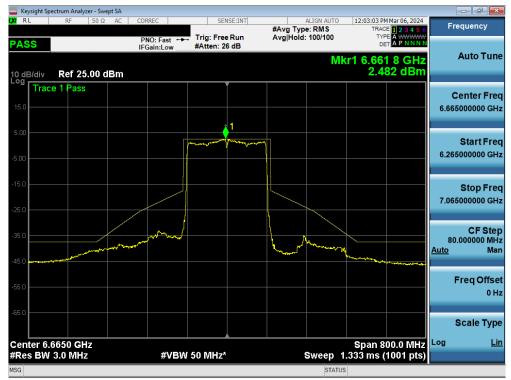




Plot 7-183. In-Band Emission MIMO ANT2 (80MHz 802.11ax/be (UNII Band 7) - Ch. 151) - SP

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 106 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 126 of 169
© 2024 ELEMENT	·	·	V 9.0 02/01/2019





Plot 7-184. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 7) - Ch. 143) - SP

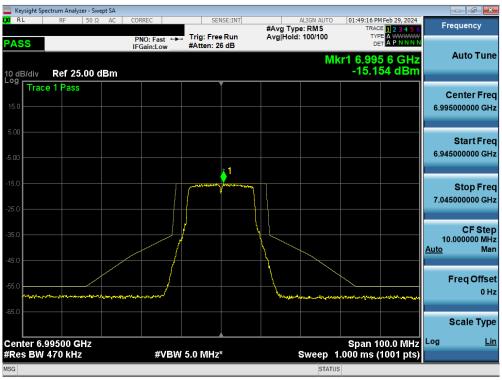


Plot 7-185. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 6/7) - Ch. 159) - SP

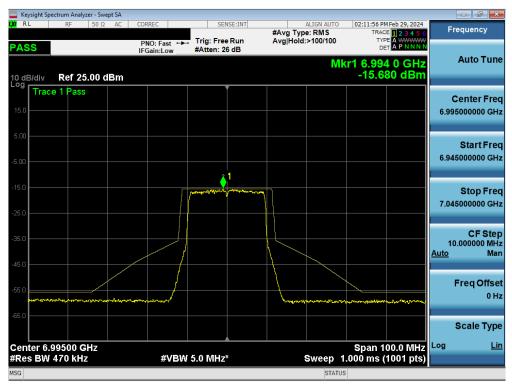
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dama 407 of 400	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 127 of 169	
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MIMO Antenna-2 In-Band Emission Measurements - (UNII Band 8)



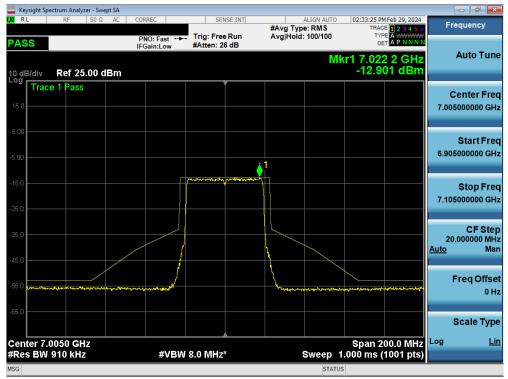
Plot 7-186. In-Band Emission MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 209)

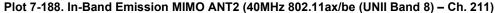


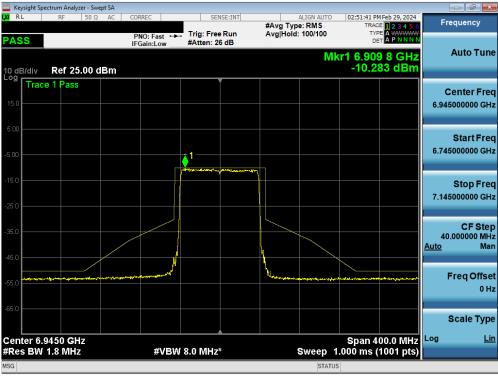
Plot 7-187. In-Band Emission MIMO ANT2 (20MHz 802.11ax/be (UNII Band 8) - Ch. 209)

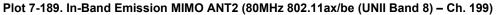
FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 128 of 169
© 2024 ELEMENT	·		V 9.0 02/01/2019









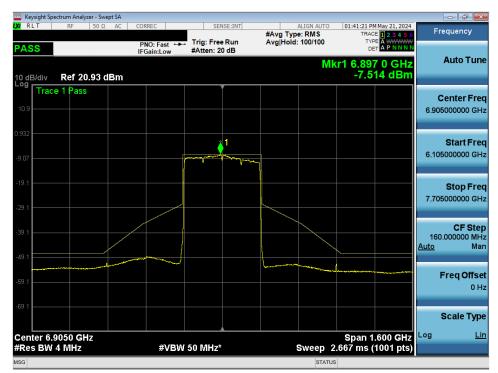


FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 120 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 129 of 169
© 2024 ELEMENT	-		V 9.0 02/01/2019



	ectrum Analyzer - Sw									- 5 🔀
LXI RL	RF 50 Ω	AC CO	RREC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO		MFeb 29, 2024	Frequency
PASS			NO: Fast ↔ Gain:Low	, Trig: Free #Atten: 2		Avg Hold:	: 100/100	TYF De		Auto Tune
10 dB/div	Ref 25.00 (lBm					Μ	kr1 6.97 -7.9	7 8 GHz 82 dBm	
Log Trac	e 1 Pass									Center Freq
15.0										6.985000000 GHz
5.00										
					4					Start Freq
-5.00					I					6.585000000 GHz
-15.0					- All and a second s]				Stop Freq
										7.385000000 GHz
-25.0										
-35.0										CF Step 80.000000 MHz
						l.				Auto Man
-45.0			a service and			\ \				
-55.0									······································	Freq Offset 0 Hz
										0112
-65.0										Scale Type
Center 6	9850 GHz							Snan 8	00.0 MHz	Log <u>Lin</u>
#Res BW			#VBW	50 MHz*			Sweep	1.333 ms (1001 pts)	
MSG							STATU	JS		

Plot 7-190. In-Band Emission MIMO ANT2 (160MHz 802.11ax/be (UNII Band 8) - Ch. 207)



Plot 7-191. In-Band Emission MIMO ANT2 (320MHz 802.11ax/be (UNII Band 7/8) - Ch. 191)

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 120 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 130 of 169
© 2024 ELEMENT			V 9.0 02/01/2019



7.6 Contention Based Protocol

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel if detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

KDB 987594 D02 v02r01

Test Settings

- 1. Configure the EUT to transmit with a constant duty cycle.
- 2. Set the operating parameters of the EUT including power level, operating frequency, modulation, and bandwidth.
- 3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- 4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
- 5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
- 7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- 8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- 9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- 10. Refer to Table 1 of KDB 987594 D02 v02r01 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal, and repeat the process.

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 121 of 160	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 131 of 169	
© 2024 ELEMENT		·	V 9.0 02/01/2019	

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Test Setup

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

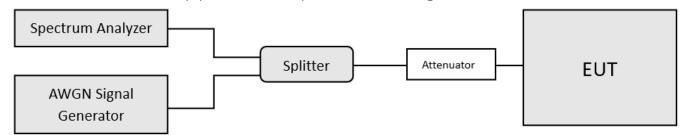


Figure 7-5. Contention-based protocol test setup conducted method.

Test Notes

- Per guidance from KDB 987594 D02 v02r01, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-192). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-193), M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
- 2. 15 trials were run to assure that at least 90% of certainty was met.
- 3. Per Guidance from KDB 987594 D04 v01, contention-based protocol was tested with receiver with the lowest antenna gain.
- 4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmitting.
- 5. In the presence of an AWGN signal, the EUT was shown to either completely move out of the channel or to reduce its bandwidth for the purpose of incumbent avoidance. Representative channel move plots are included for one sub-band to show how the channel reduces when the AWGN is injected at the lower edge, the center, and the upper edge of a channel.
- 6. This device only punctures to optimize network performance and never to avoid licensed incumbents.
- 7. For the channel move demonstration in Section 7.6.3, only plots from UNII-5 band are included. Additionally, the AWGN signal is not visible because the AWGN level is well below the noise floor.

Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB)

Equation 7-1. Detection Level Calculation

FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dama 420 af 400	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 132 of 169	
© 2024 ELEMENT			V 9.0 02/01/2019	



Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Path Loss (dB)	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
	53	6215	20	6215	-64.05	1.36	1.50	-63.91	-62.0	-1.91
UNII				6110	-62.67	1.36	1.50	-62.53	-62.0	-0.53
Band 5	31	6265	320	6265	-63.36	1.36	1.50	-63.22	-62.0	-1.22
				6420	-63.06	1.36	1.50	-62.92	-62.0	-0.92
	101	6455	20	6455	-67.53	1.36	1.50	-67.39	-62.0	-5.39
UNII				6270	-65.05	1.36	1.50	-64.91	-62.0	-2.91
Band 6	95	95 6425	320	6425	-64.36	1.36	1.50	-64.22	-62.0	-2.22
				6580	-66.85	1.36	1.50	-66.71	-62.0	-4.71
	149	6695	20	6695	-66.17	1.36	1.50	-66.03	-62.0	-4.03
UNII				6590	-67.12	1.36	1.50	-66.98	-62.0	-4.98
Band 7	159	6745	320	6745	-66.65	1.36	1.50	-66.51	-62.0	-4.51
				6900	-67.62	1.36	1.50	-67.48	-62.0	-5.48
	197	6935	20	6935	-68.17	1.36	1.50	-68.03	-62.0	-6.03
UNII				6750	-66.97	1.36	1.50	-66.83	-62.0	-4.83
Band 8	191	191 6905	5 320	6905	-66.96	1.36	1.50	-66.82	-62.0	-4.82
				7060	-66.70	1.36	1.50	-66.56	-62.0	-4.56

Table 7-39. Contention Based Protocol – Incumbent Detection Results

						EUT	Transmission S										
Band Channel		Channel Freg	Channel BW	Incumbent	Antenna Gain	Adjuste	d AWGN Powe	Detection									
		[MHz]	[MHz]	Freq [MHz]	[dBi]	Normal	Minimal	Ceased	Limit [dBm]	Margin [dB]							
	53	6215	20	6215	1.36	-65.61	-64.91	-63.91	-62.0	-1.91							
UNII				6190	1.36	-64.53	-63.63	-62.53	-62.0	-0.53							
Band 5	31	6265	320	6265	1.36	-66.12	-65.62	-63.22	-62.0	-1.22							
				6340	1.36	-66.52	-64.12	-62.92	-62.0	-0.92							
	101	6455	20	6455	1.36	-69.59	-68.69	-67.39	-62.0	-5.39							
UNII		95 6425	6425	6425	6425						6350	1.36	-69.31	-67.01	-64.91	-62.0	-2.91
Band 6	95					320	6425	1.36	-68.92	-66.32	-64.22	-62.0	-2.22				
				6500	1.36	-69.41	-68.01	-66.71	-62.0	-4.71							
	149	6695	20	6695	1.36	-69.73	-67.93	-66.03	-62.0	-4.03							
UNII				6670	1.36	-69.48	-68.08	-66.98	-62.0	-4.98							
Band 7	159	6745	320	6745	1.36	-70.11	-68.21	-66.51	-62.0	-4.51							
			6820	1.36	-70.48	-69.18	-67.48	-62.0	-5.48								
	197	6935	20	6935	1.36	-71.63	-69.53	-68.03	-62.0	-6.03							
UNII				6830	1.36	-70.53	-68.53	-66.83	-62.0	-4.83							
Band 8	191	6905	320	6905	1.36	-70.12	-67.72	-66.82	-62.0	-4.82							
				6980	1.36	-70.26	-67.86	-66.56	-62.0	-4.56							

Table 7-40. Contention Based Protocol – Detection Results – All Tx Cases

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 122 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 133 of 169
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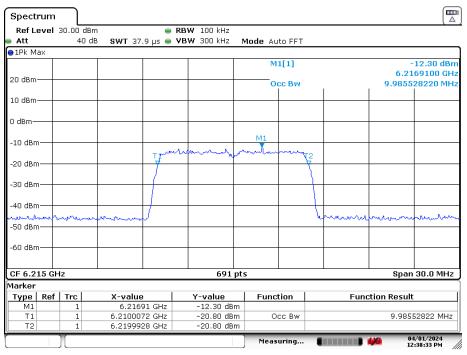
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)							
	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
Band 5	31	6265	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
UNII		95 6425 32									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 6	95		6425 320	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100						
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
Band 7	159	6745	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
UNII				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
Band 8	191	6905	320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100							

Table 7-41. Contention Based Protocol – Incumbent Detection Trial Results

FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 124 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 134 of 169
© 2024 ELEMENT			V 9.0 02/01/2019



7.6.1 AWGN Plots



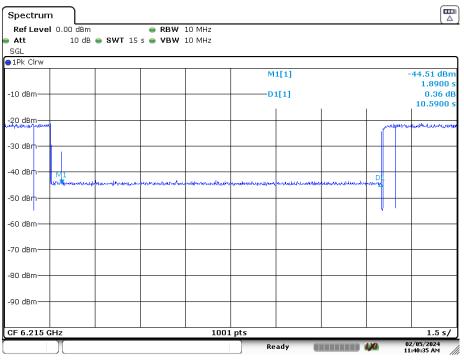
Date: 1.APR.2024 12:38:32

Plot 7-192. AWGN Signal (Demonstration)

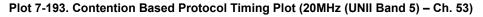
FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 125 of 160
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 135 of 169
© 2024 ELEMENT		·	V 9.0 02/01/2019

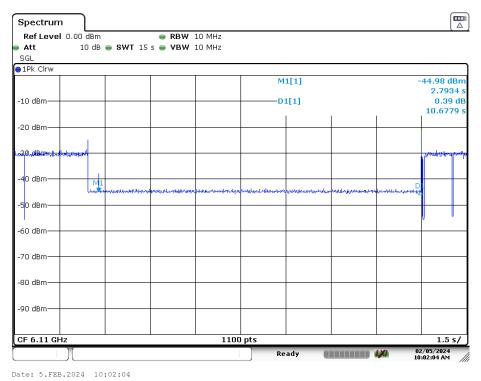


7.6.2 CBP Timing Plots



Date: 5.FEB.2024 11:40:36

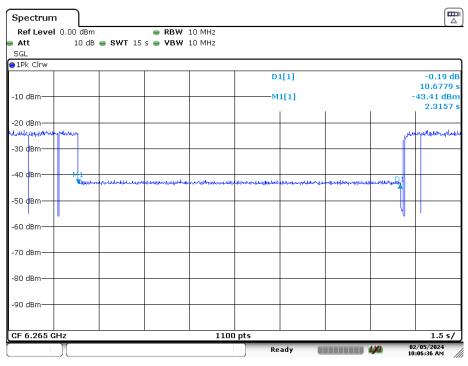


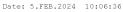


Plot 7-194. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) - Ch. 31 Low)

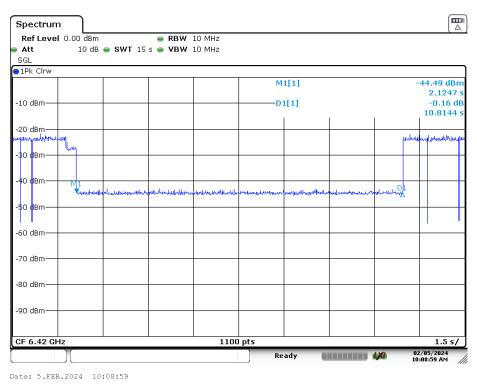
FCC ID: C3K2077 IC: 3048A-2077		MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dere 126 of 160	
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 136 of 169	
© 2024 ELEMENT			V 9 0 02/01/2019	













FCC ID: C3K2077 IC: 3048A-2077		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dawa 407 af 400
1M2312040120-21-R3.C3K	12/14/2023 - 05/20/2024	Portable Computing Device	Page 137 of 169
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