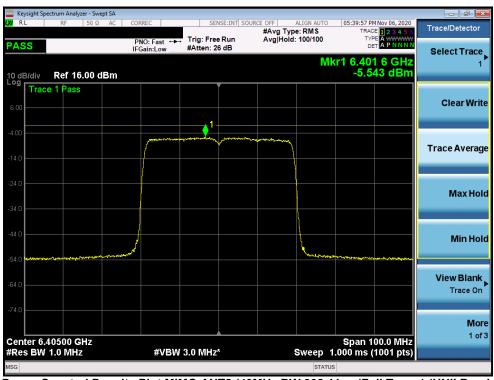


Plot 7-236. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 43)



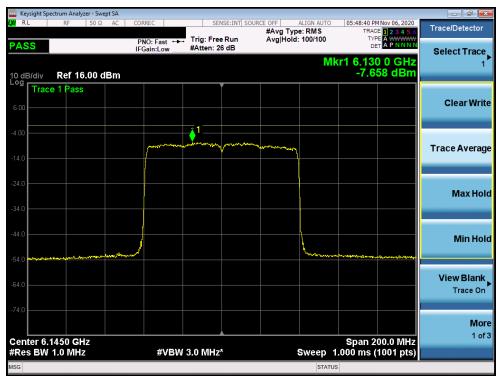
Plot 7-237. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 91)

FCC ID: A3LSMG998B	PCTEST° Proud to be part of @ element			Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept SA					- 6 ×
<b>LX/</b> RL RF 50Ω AC	CORREC	SENSE:INT SO	JRCE OFF ALIGN AUTO #Avg Type: RMS	05:48:13 PM Nov 06, 2020 TRACE 1 2 3 4 5 6	Trace/Detector
PASS	PNO: Fast ↔ IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Hold: 100/100	DET A WWWWW	Select Trace
10 dB/div Ref 16.00 dBn	n			r1 5.969 8 GHz -8.341 dBm	
6.00 Trace 1 Pass					Clear Write
-4.00		1	hunney		Trace Average
-14.0					Max Hold
-34.0					
-54.0				Tehned States de same annue	Min Hold
-64.0					View Blank Trace On
-74.0 Center 5.9850 GHz				Shop 200 0 MHz	More 1 of 3
#Res BW 1.0 MHz	#VBW	3.0 MHz*	Sweep 1	Span 200.0 MHz .000 ms (1001 pts)	
MSG			STATUS		

Plot 7-238. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 7)



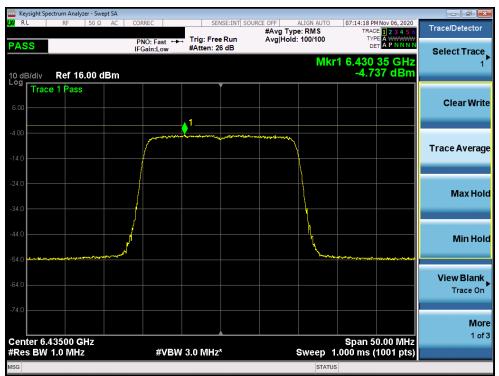
Plot 7-239. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 39)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager		
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Keysight Spectrum Analyzer - Swept SA					
<b>LX/</b> R L RF 50 Ω AC	CORREC	SENSE:INT SO	#Avg Type: RMS	05:49:46 PM Nov 06, 2020 TRACE 1 2 3 4 5 6	Trace/Detector
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	Select Trace
10 dB/div Ref 16.00 dBm			Mł	r1 6.373 6 GHz -7.929 dBm	1*
6.00 Trace 1 Pass					Clear Write
-4.00		1	m_mmmmy		Trace Average
-24.0					Max Hold
-44.0					Min Hold
-54.0				9	View Blank Trace On
-74.0					More 1 of 3
Center 6.3850 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz*	Sweep 1	Span 200.0 MHz .000 ms (1001 pts)	1 01 3
MSG			STATUS		

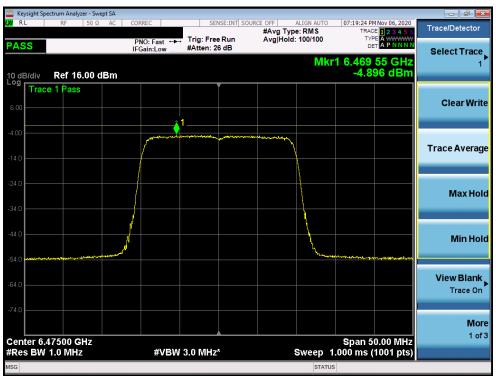
Plot 7-240. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 87)



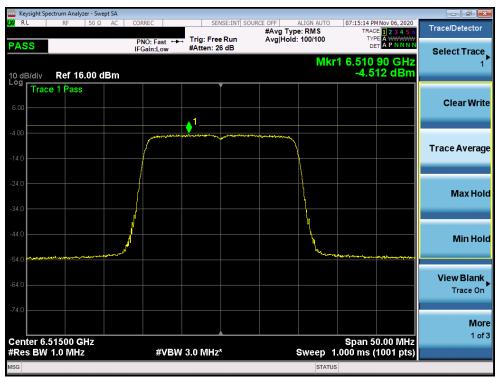
Plot 7-241. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 97)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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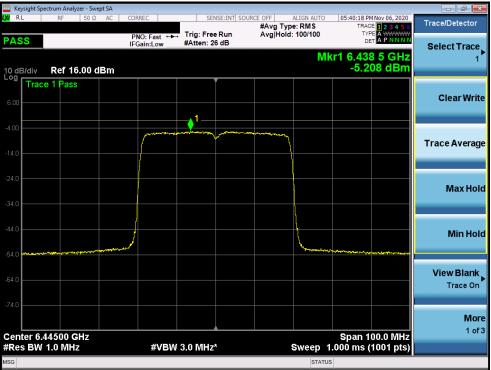
Plot 7-242. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 105)



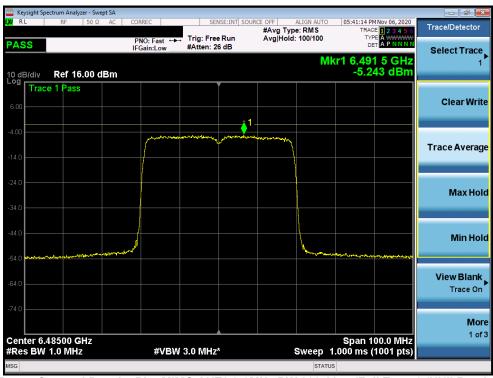
Plot 7-243. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 113)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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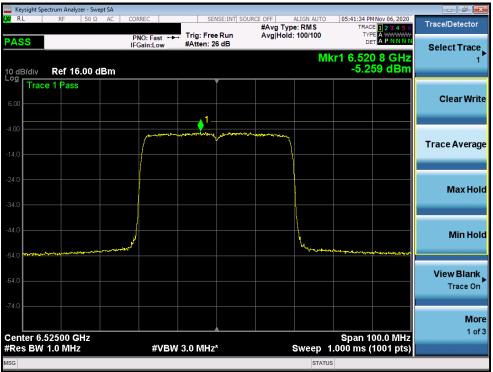
Plot 7-244. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 99)



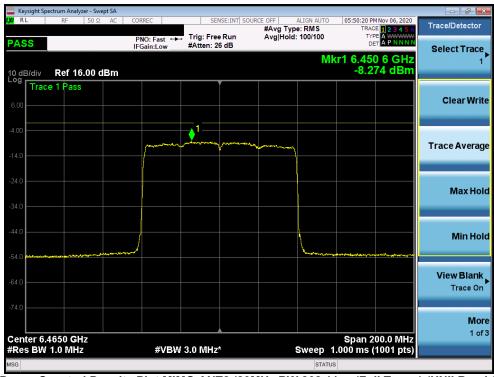
Plot 7-245. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 107)

FCC ID: A3LSMG998B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 450 of 070
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Plot 7-246. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 115)



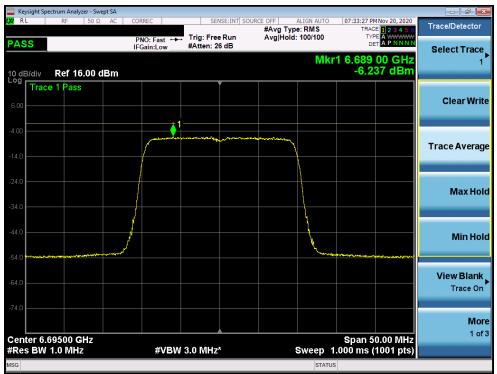
Plot 7-247. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 103)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 450 af 070
1M2009230154-27-R1.A3L	9/28/2020-12/14/2020	Portable Handset		Page 159 of 276
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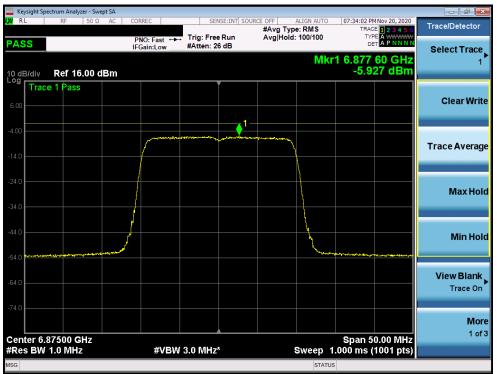
Plot 7-248. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 117)



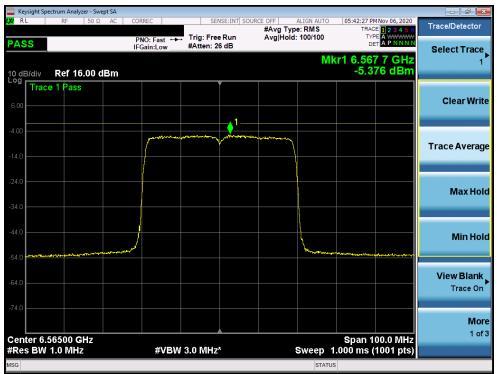
Plot 7-249. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 149)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dega 160 of 076		
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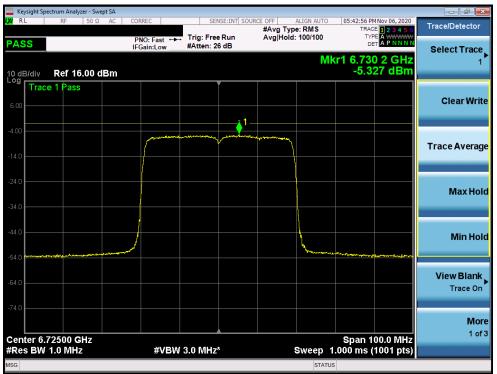
Plot 7-250. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 185)



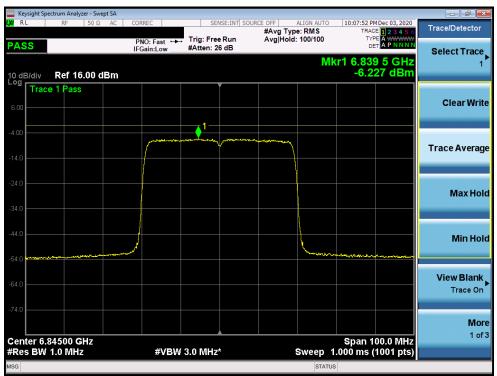
Plot 7-251. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 123)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element			Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:		Dage 161 of 076		
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Plot 7-252. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 155)



Plot 7-253. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 179)

FCC ID: A3LSMG998B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 400 of 070
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	ctrum Analyzer - Swept SA								_ <b>6</b> 🔀
IXI RL	RF 50 Ω AC	CORREC	SEN	SE:INT SOURCE	OFF A	BMS		Nov 06, 2020	Trace/Detector
PASS		PNO: Fast ↔ IFGain:Low	Trig: Free #Atten: 26	Run /	Avg Hold:	100/100	TYP DE		Select Trace
10 dB/div Log	Ref 16.00 dBm					IVI	kr1 6.542 -8.52	28 dBm	1
6.00	e 1 Pass								Clear Write
-4.00									
-14.0				man	m				Trace Average
-24.0									
-34.0									Max Hold
-44.0									Min Hold
-54.0	~~!\U~~~?~~!~~!~~!~~!~~	ana ang kana sa				and the second second	***********	สารางสาวารัฐกละปลาษ	
-64.0									View Blank Trace On
-74.0									More
Center 6.5							Span 2	00.0 MHz	1 of 3
#Res BW 1	1.0 MHz	#VBW	3.0 MHz*		5		1.000 ms (	1001 pts)	
MSG						STATU	JS		

Plot 7-254. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 119)



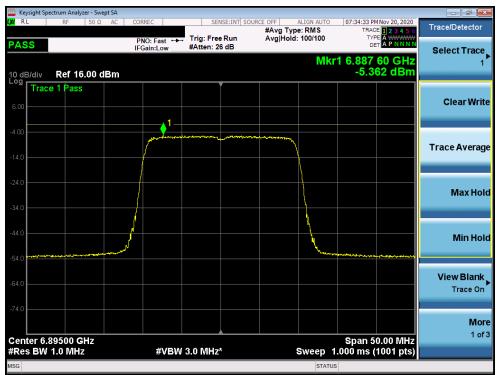
Plot 7-255. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 151)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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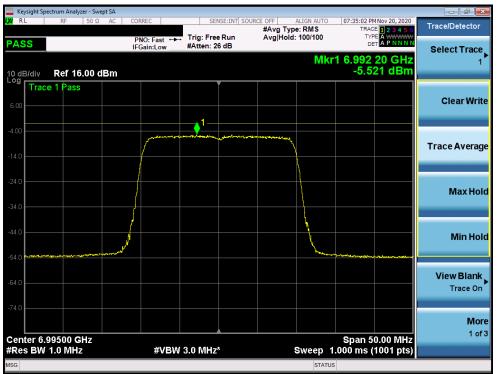
Plot 7-256. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 183)



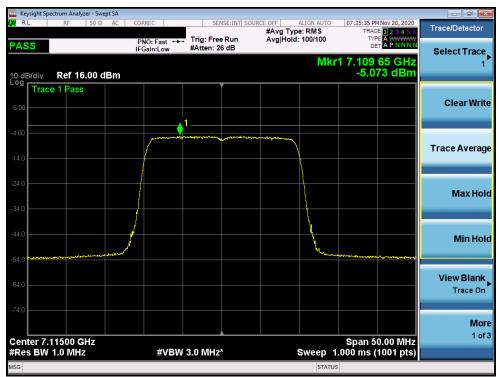
Plot 7-257. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 189)

FCC ID: A3LSMG998B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMBUNG	Approved by: Technical Manager
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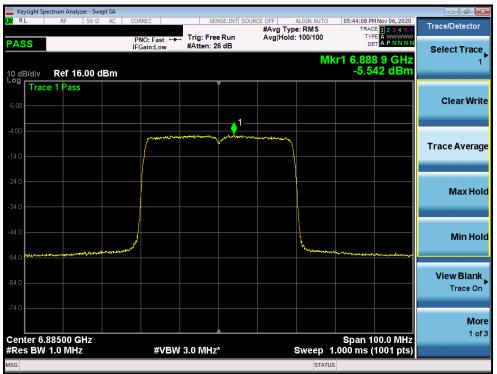
Plot 7-258. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 209)



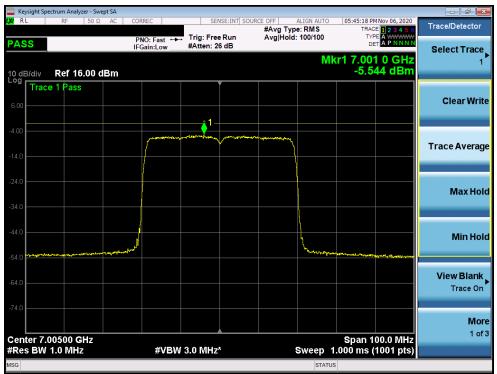
Plot 7-259. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 233)

FCC ID: A3LSMG998B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 405 of 070
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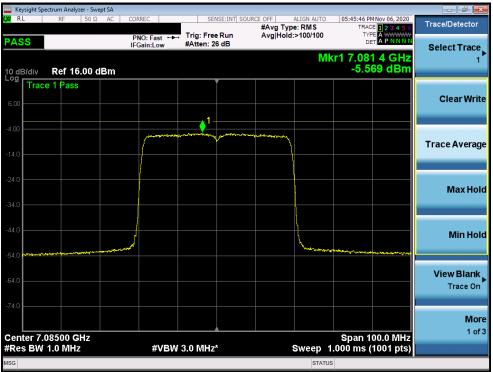
Plot 7-260. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 187)



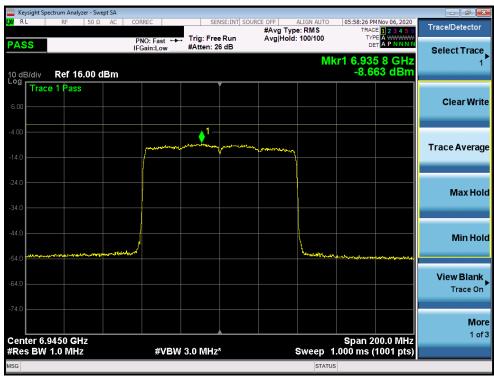
Plot 7-261. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 211)

FCC ID: A3LSMG998B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 400 of 070
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Plot 7-262. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 227)



Plot 7-263. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		D 407 -f 070
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## 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.

## Sample MIMO Calculation:

At 5935MHz in 802.11ax (20MHz BW) mode, the average conducted power spectral density was measured to be -5.94 dBm for Antenna-1 and -5.42 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(-5.94 dBm + -5.42 dBm) = (.255 mW + .287 mW) = .542 mW = -2.66 dBm

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## 7.5 In-Band Emissions – 802.11ax §15.407(b)(6)

### **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.

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**

ANSI C63.10-2013 – Section 12.3.2.2 KDB 987594 D02

#### **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  $\ge$  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:
  - a) 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.)
  - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
  - c) 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.

#### Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

## Test Notes

None

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# MIMO Antenna-1 In-Band Emissions Measurements (26 Tones)

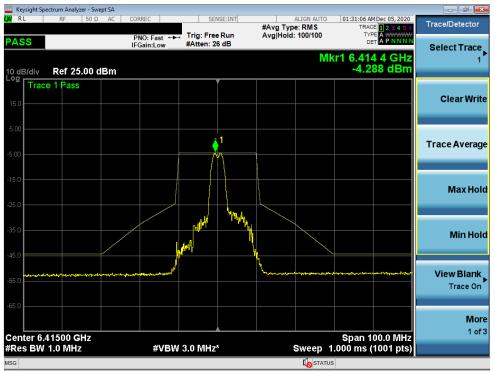
Plot 7-265. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 2)



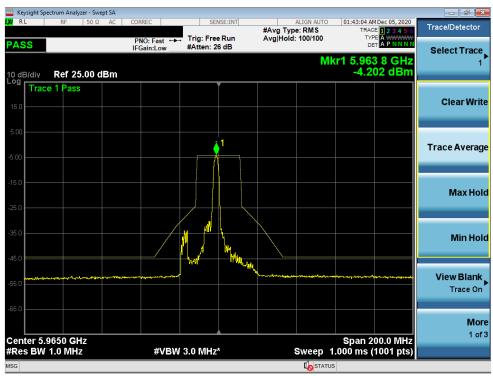
Plot 7-266. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 45)

FCC ID: A3LSMG998B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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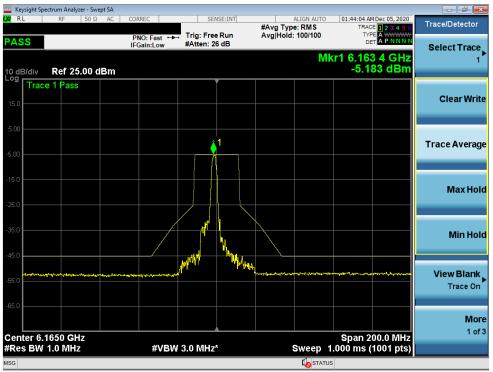
Plot 7-267. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 93)



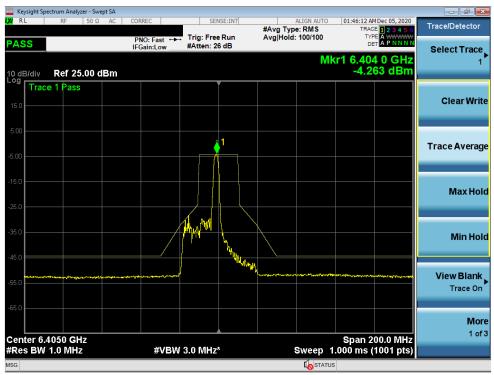
Plot 7-268. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 3)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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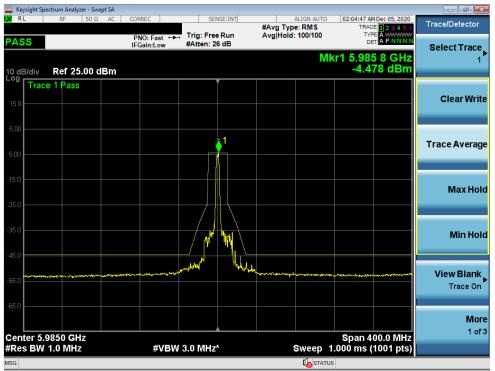
Plot 7-269. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 43)



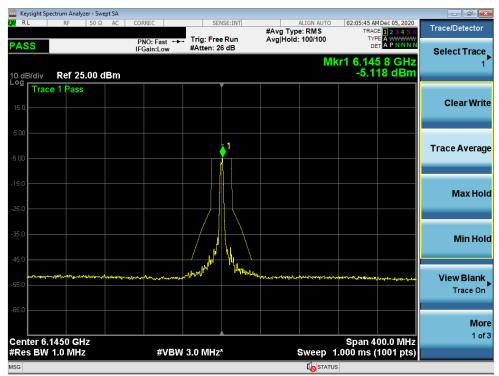
Plot 7-270. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 91)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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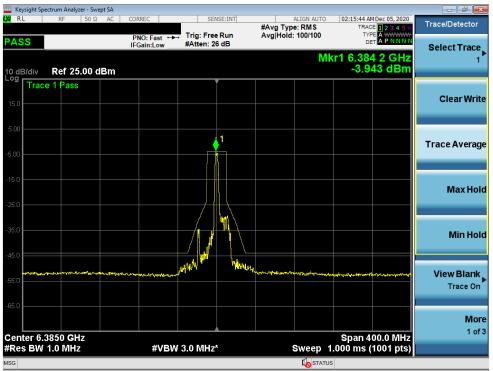
Plot 7-271. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 7)



Plot 7-272. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) – Ch. 39)

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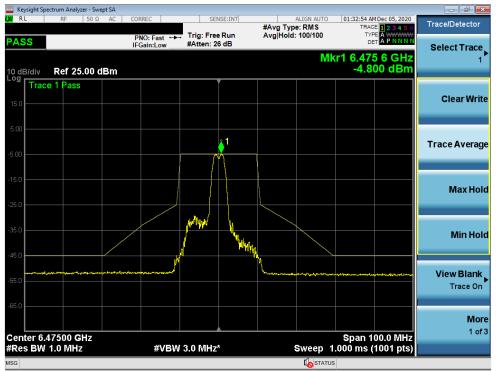
Plot 7-273. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 87)



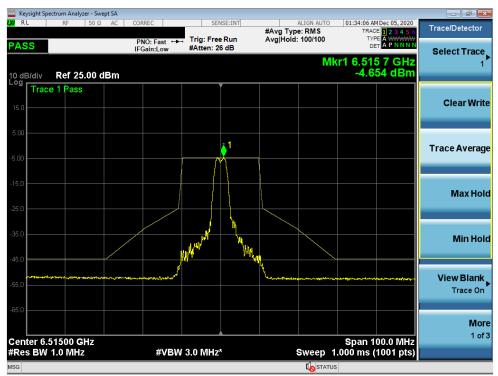
Plot 7-274. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) – Ch. 97)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMBUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 176 of 076
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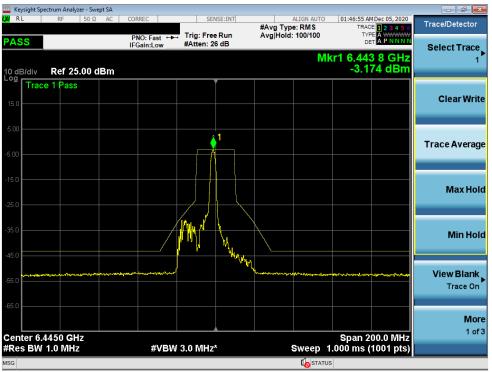
Plot 7-275. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 105)



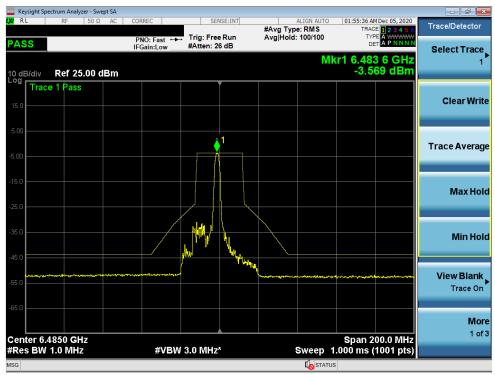
Plot 7-276. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 113)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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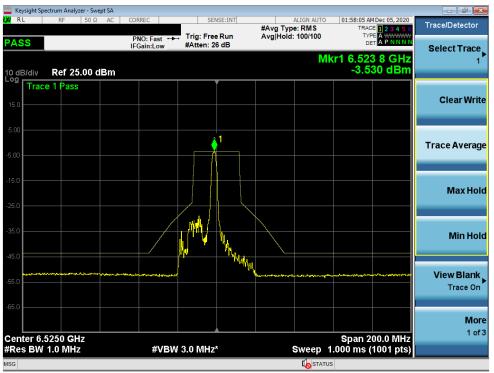
Plot 7-277. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 99)



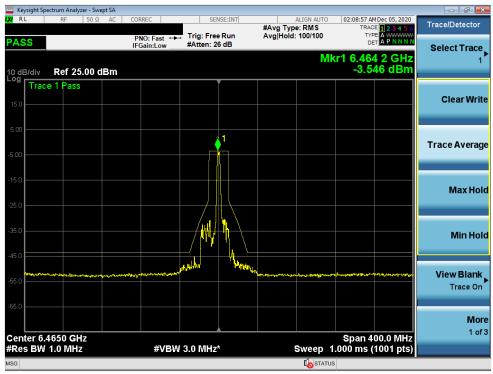
Plot 7-278. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 107)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 179 of 076
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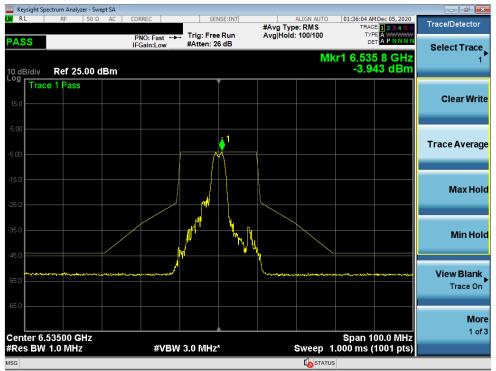
Plot 7-279. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 115)



Plot 7-280. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 103)

FCC ID: A3LSMG998B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 170 of 076
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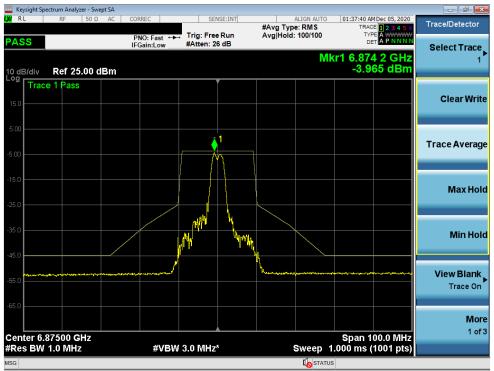
Plot 7-281. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 117)



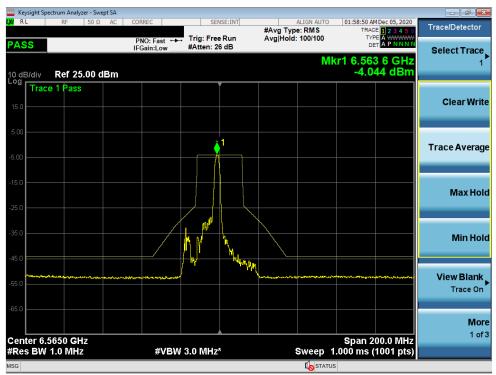
Plot 7-282. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 149)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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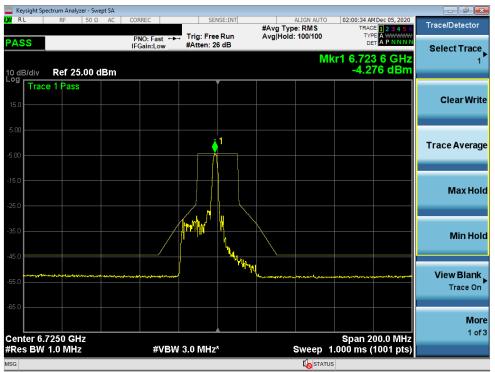
Plot 7-283. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 185)



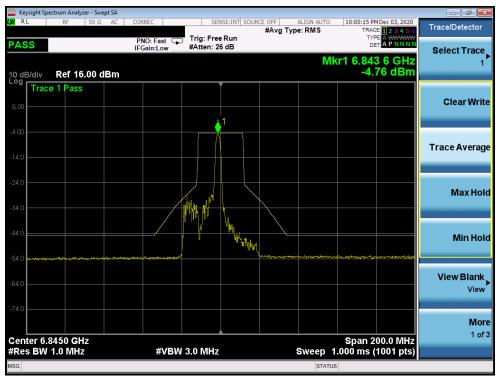
Plot 7-284. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 123)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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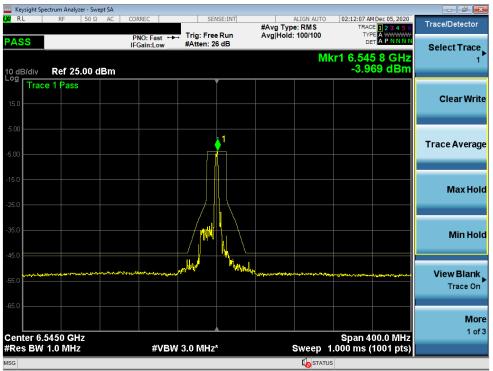
Plot 7-285. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 155)



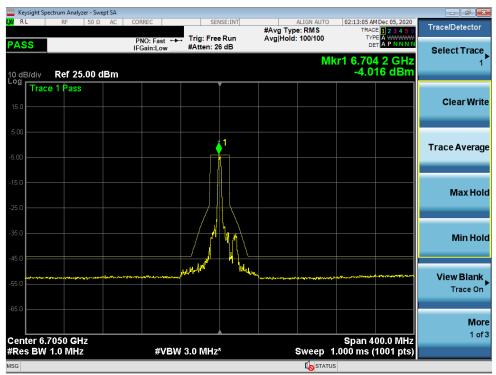
Plot 7-286. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 179)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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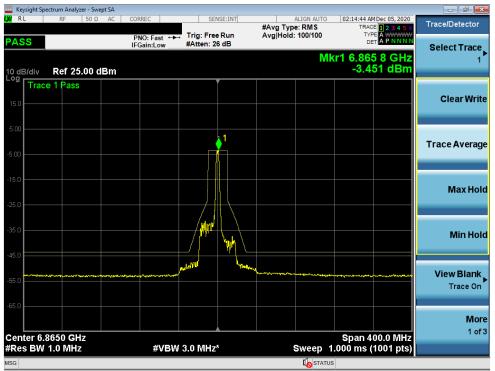
Plot 7-287. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 119)



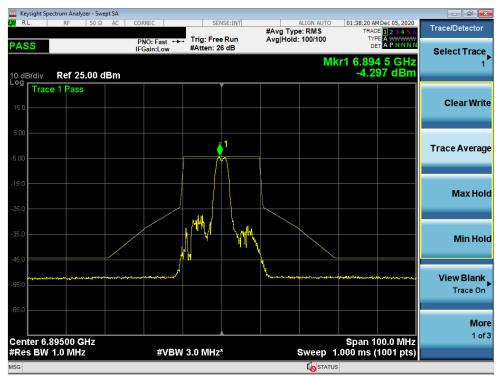
Plot 7-288. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 151)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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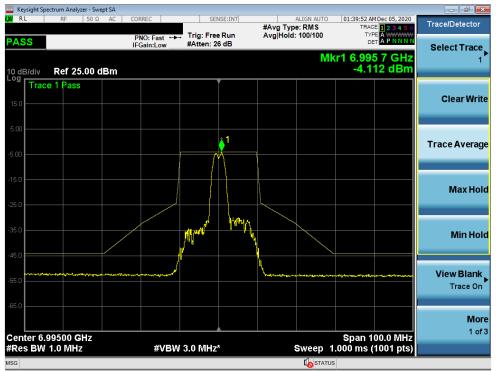
Plot 7-289. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 183)



Plot 7-290. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 189)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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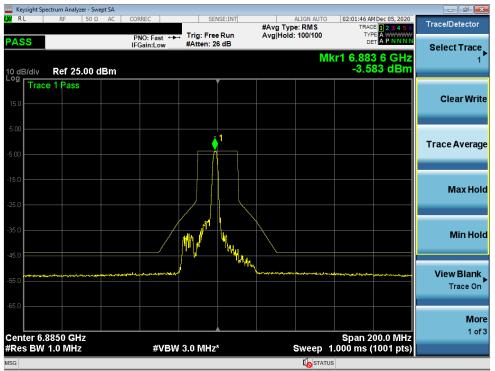
Plot 7-291. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 209)



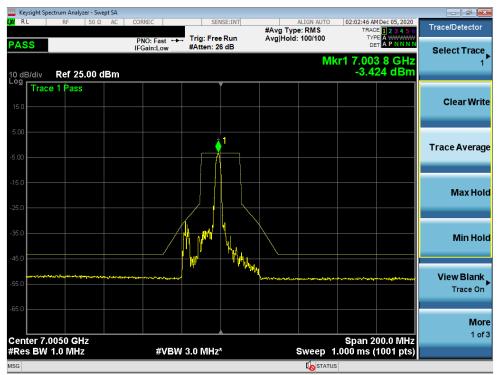
Plot 7-292. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 233)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-293. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 187)



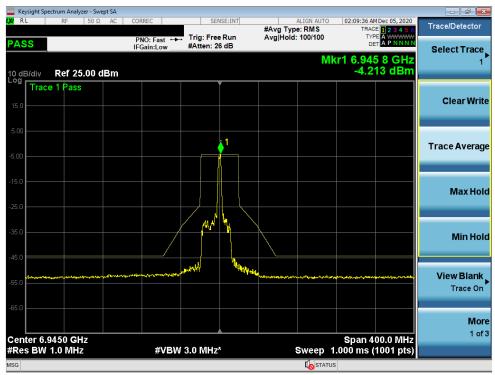
Plot 7-294. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 211)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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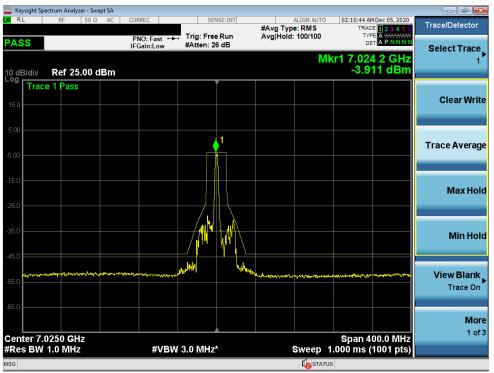
Plot 7-295. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 227)



Plot 7-296. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dege 197 of 976
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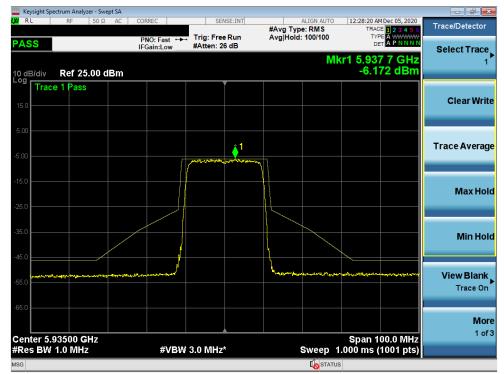




Plot 7-297. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 215)

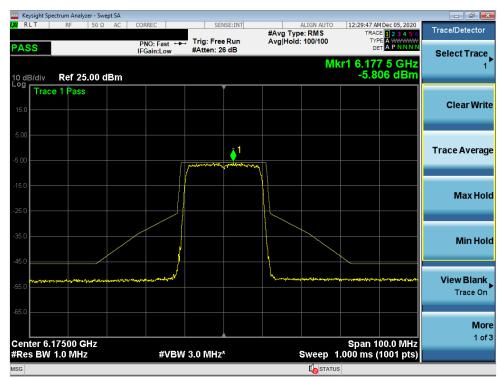
FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dego 199 of 276
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#### MIMO Antenna-1 In-Band Emissions Measurements (Full Tones)

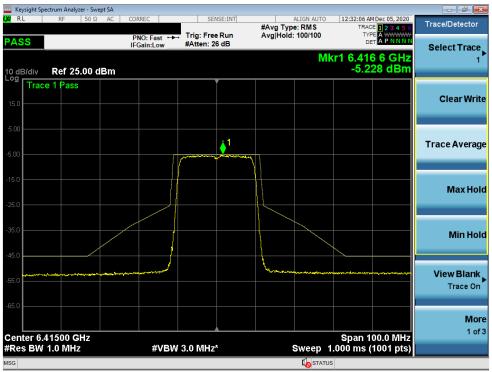




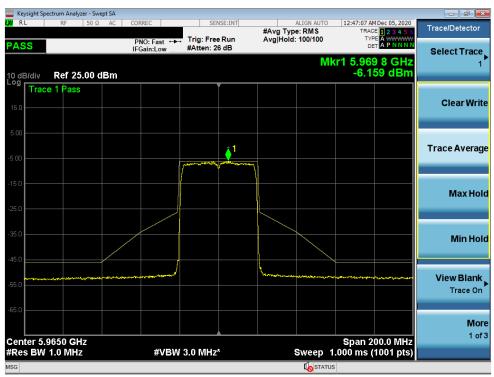
Plot 7-299. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 5) – Ch. 45)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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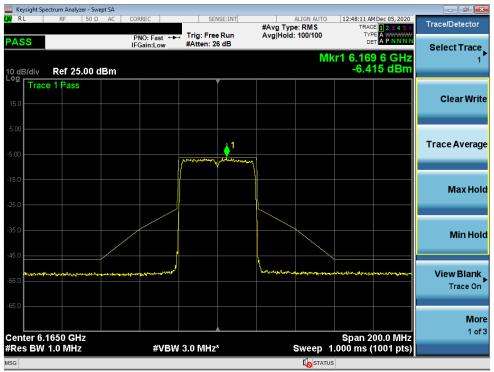
Plot 7-300. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) UNII Band 5) - Ch. 93)



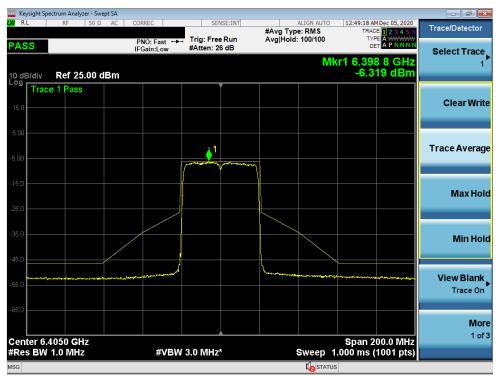
Plot 7-301. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 3)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-302. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 43)



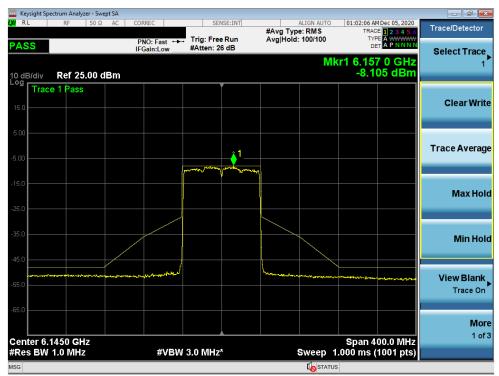
Plot 7-303. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 91)

FCC ID: A3LSMG998B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept SA					_ 6 <b>×</b>
X/RL RF 50Ω AC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	01:00:33 AM Dec 05, 2020 TRACE 1 2 3 4 5 6	Trace/Detector
PASS	PNO: Fast ++- IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Hold: 100/100	DET A WWWWW DET A P N N N N	Select Trace
10 dB/div Ref 25.00 dBm			Mł	r1 5.976 6 GHz -8.673 dBm	1
15.0					Clear Write
5.00		<u>^</u> 1			Trace Average
-15.0		and a second and a second	<b>n</b>		Max Hold
-25.0					Min Hold
-45.0					View Blank 、
-65.0					Trace On
Center 5.9850 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz*	Sweep 1	Span 400.0 MHz .000 ms (1001 pts)	More 1 of 3

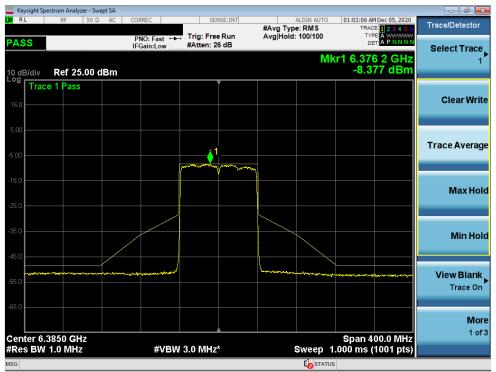
Plot 7-304. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 7)



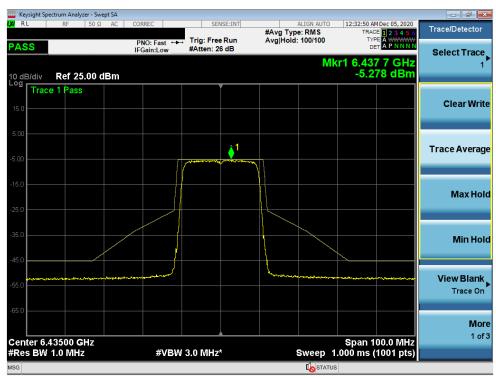
Plot 7-305. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 5) – Ch. 39)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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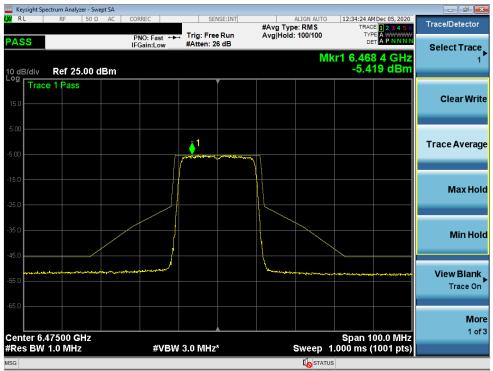
Plot 7-306. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 5) - Ch. 87)



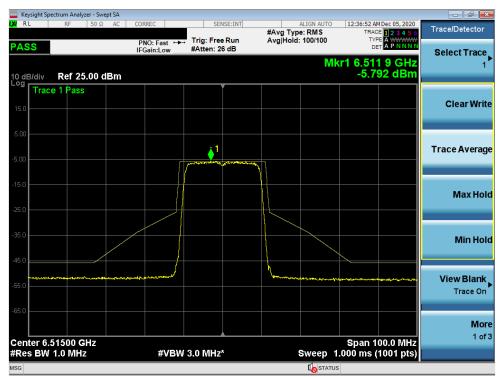
Plot 7-307. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 6) – Ch. 97)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-308. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 105)



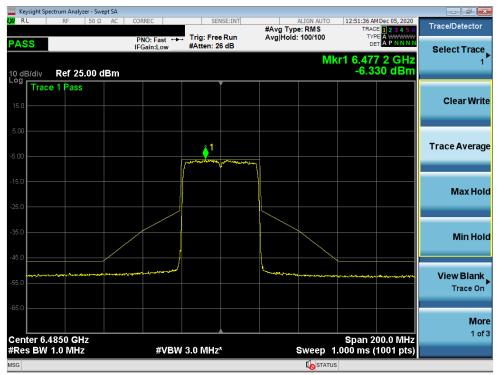
Plot 7-309. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 6) – Ch. 113)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-310. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 99)



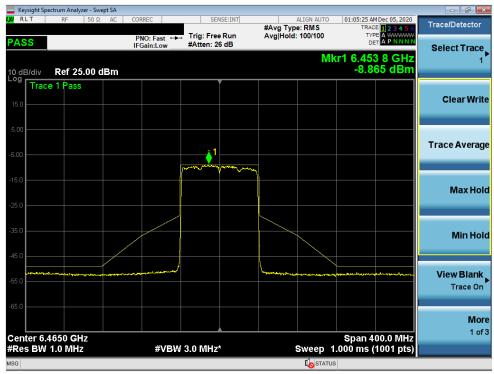
Plot 7-311. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 107)

FCC ID: A3LSMG998B	Proved to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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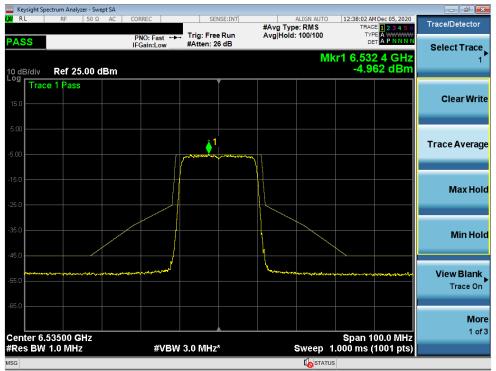
Plot 7-312. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 115)



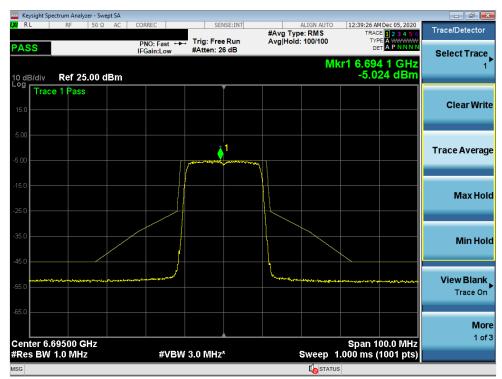
Plot 7-313. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 6) - Ch. 103)

FCC ID: A3LSMG998B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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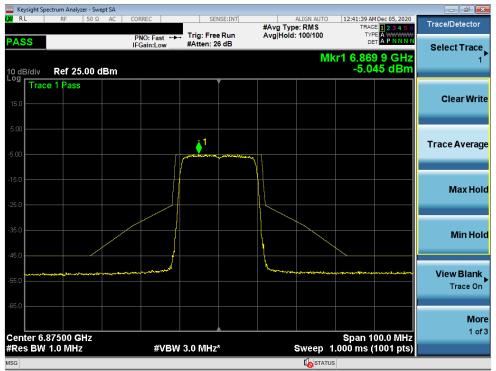
Plot 7-314. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 117)



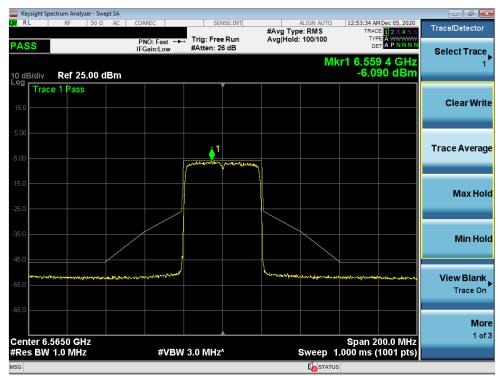
Plot 7-315. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 7) – Ch. 149)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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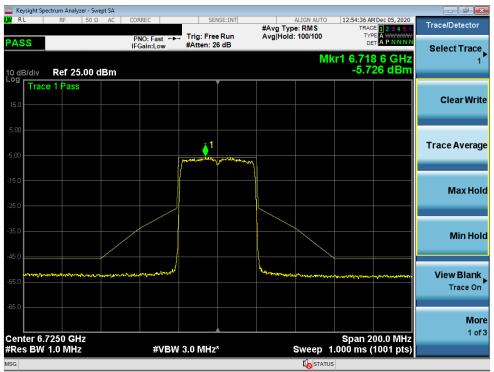
Plot 7-316. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 185)



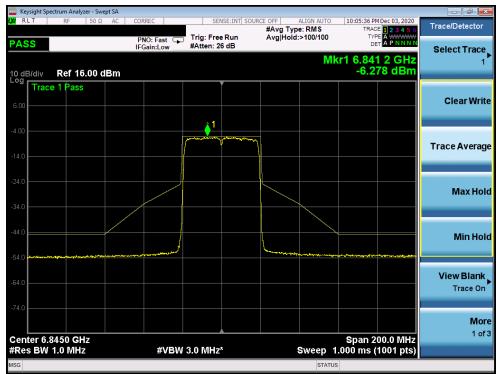
Plot 7-317. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 7) – Ch. 123)

FCC ID: A3LSMG998B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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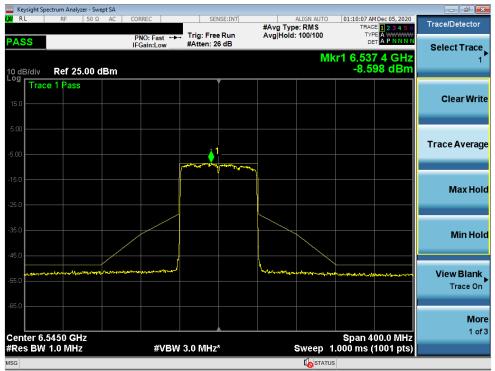
Plot 7-318. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 155)



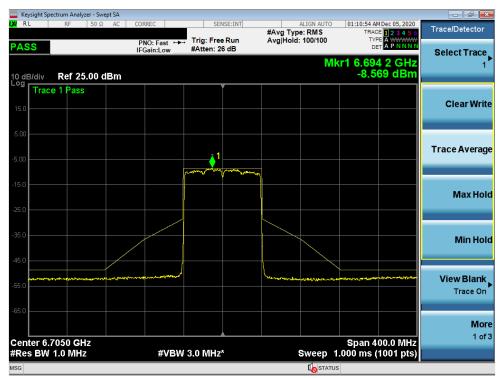
Plot 7-319. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 7) – Ch. 179)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 100 of 076
1M2009230154-27-R1.A3L	9/28/2020-12/14/2020	Portable Handset		Page 199 of 276
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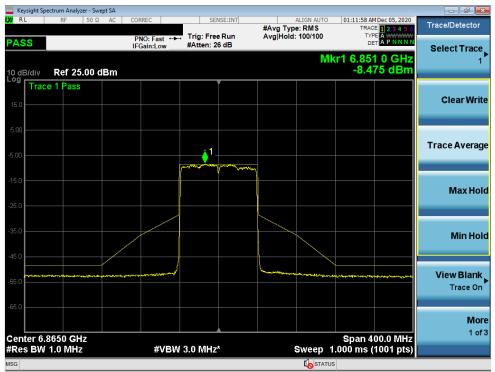
Plot 7-320. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 119)



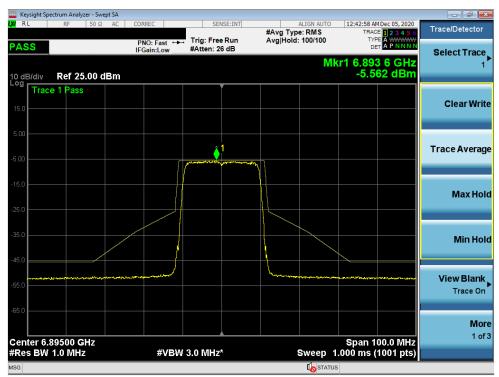
Plot 7-321. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 7) – Ch. 151)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 200 of 276
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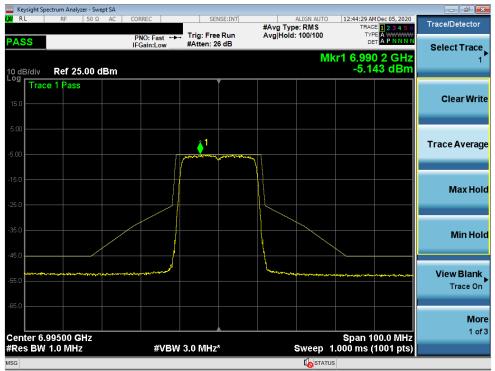
Plot 7-322. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 7) - Ch. 183)



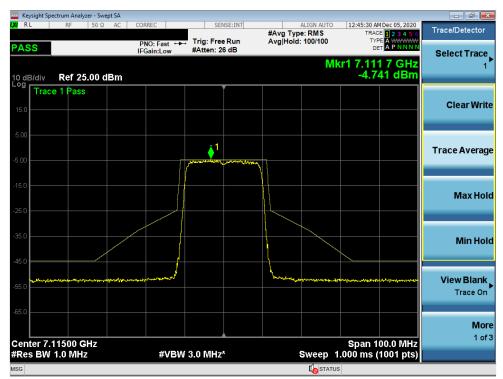
Plot 7-323. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 189)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dega 201 of 276		
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Plot 7-324. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 209)



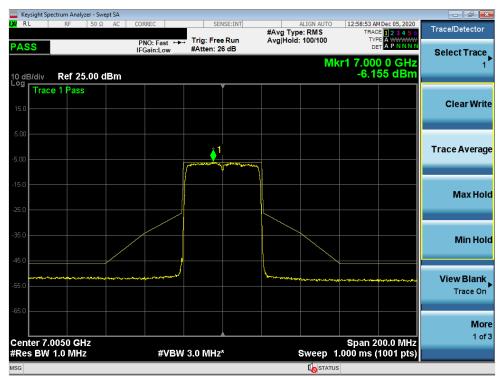
Plot 7-325. In-Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tones) (UNII Band 8) – Ch. 233)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
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Keysight Spectru										- 6 ×
X/RL	RF 50 Ω	AC C	ORREC	SEI	SE:INT	#Avg Typ	ALIGN AUTO		MDec 05, 2020	Trace/Detector
PASS			PNO: Fast ↔ Gain:Low	, Trig: Free #Atten: 2		Avg Hold	: 100/100	TYF DE		Select Trace
10 dB/div R	tef 25.00 c	1Bm					Mł	(r1 6.87 -5.6	7 4 GHz 15 dBm	1
15.0 Trace 1	Pass									Clear Write
-5.00				¢1						Trace Average
-15.0										Max Hold
-25.0										Min Hold
45.0 55.0										View Blank Trace On
65.0	50 GHz							Span 2	00.0 MHz	<b>Mor</b> e 1 of 3
#Res BW 1.0			#VBV	/ 3.0 MHz	*		Sweep 1	.000 ms (	1001 pts)	
ISG								3		

Plot 7-326. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 187)



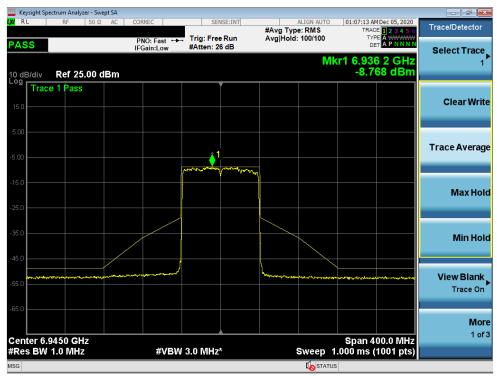
Plot 7-327. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 8) – Ch. 211)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 202 of 276	
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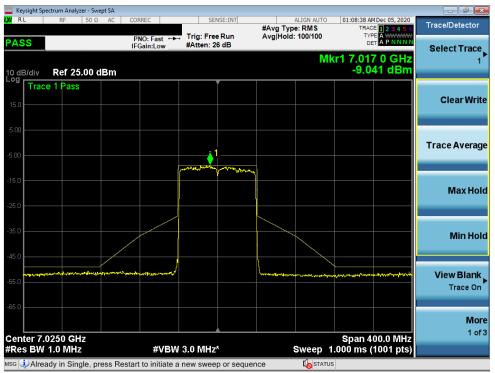
Plot 7-328. In-Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 227)



Plot 7-329. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dama 004 af 070		
1M2009230154-27-R1.A3L	9/28/2020-12/14/2020	Portable Handset	Page 204 of 276		
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Plot 7-330. In-Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tones) (UNII Band 8) - Ch. 215)

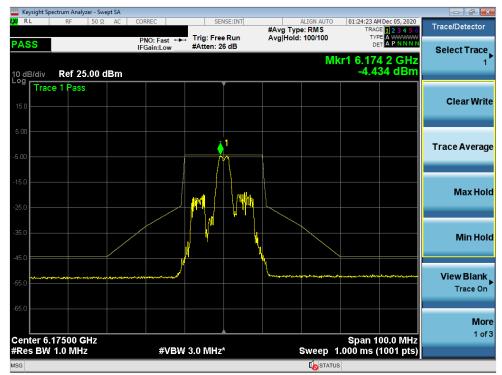
FCC ID: A3LSMG998B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 205 of 276
1M2009230154-27-R1.A3L	9/28/2020-12/14/2020	Portable Handset	Page 205 of 276
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## MIMO Antenna-2 In-Band Emissions Measurements (26 Tones)

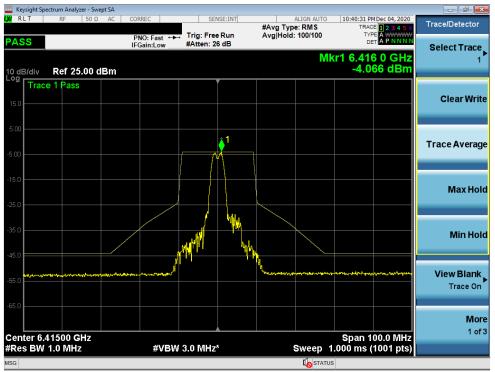
Plot 7-331. In-Band Emissions Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 2)



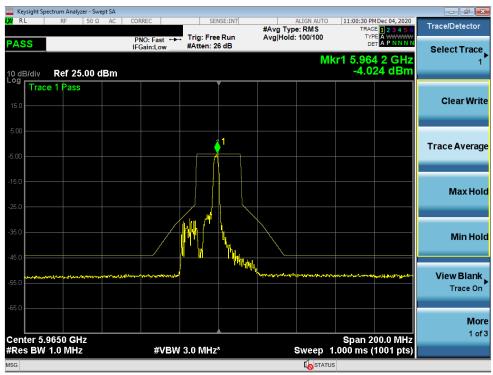
Plot 7-332. In-Band Emissions Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 45)

FCC ID: A3LSMG998B	PCTEST* Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dage 206 of 276		
1M2009230154-27-R1.A3L	9/28/2020-12/14/2020	Portable Handset	Page 206 of 276		
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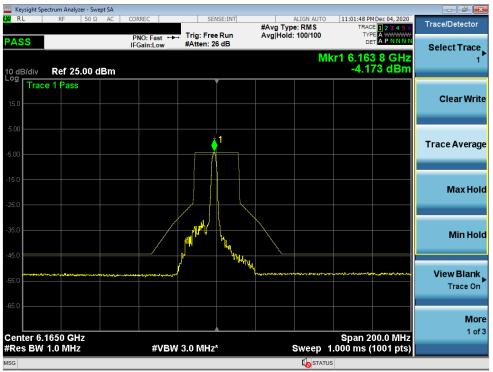
Plot 7-333. In-Band Emissions Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 93)



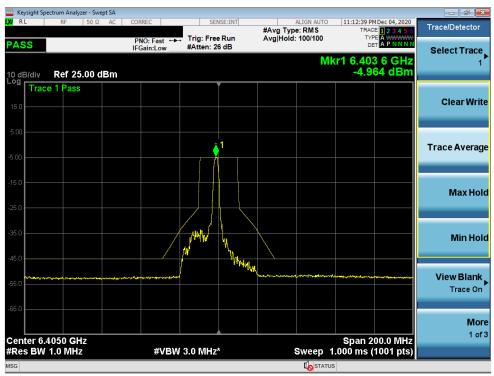
Plot 7-334. In-Band Emissions Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 3)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dega 207 of 276		
1M2009230154-27-R1.A3L	9/28/2020-12/14/2020	Portable Handset	Page 207 of 276		
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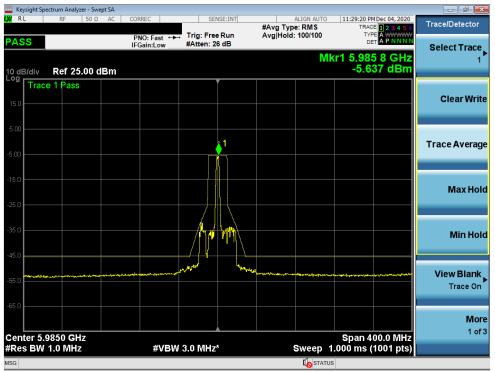
Plot 7-335. In-Band Emissions Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 43)



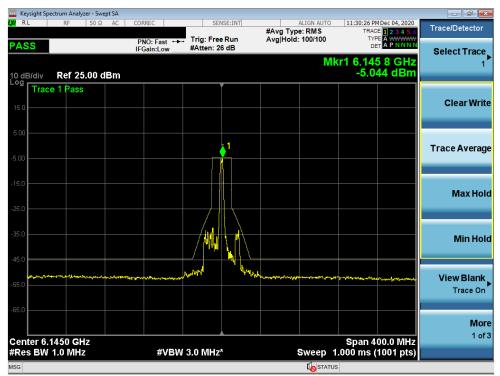
Plot 7-336. In-Band Emissions Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 91)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dega 200 of 276		
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Plot 7-337. In-Band Emissions Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 7)



Plot 7-338. In-Band Emissions Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) – Ch. 39)

FCC ID: A3LSMG998B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMBUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 200 of 276	
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