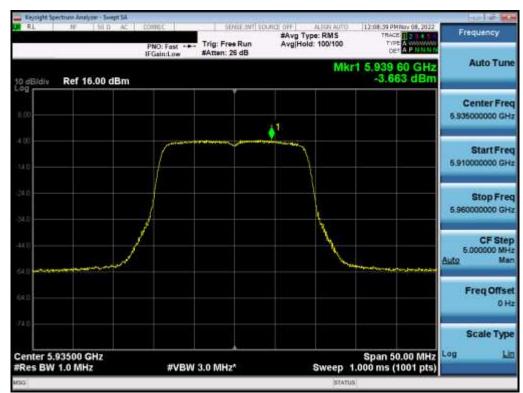


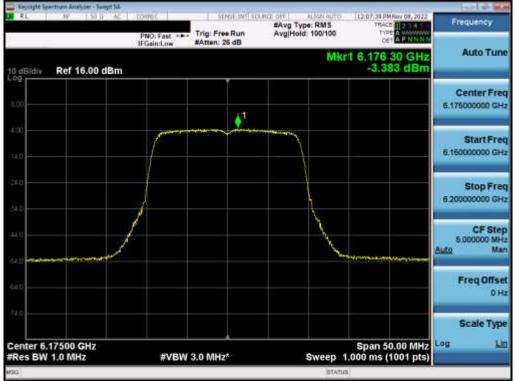
Plot 7-159. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 93)



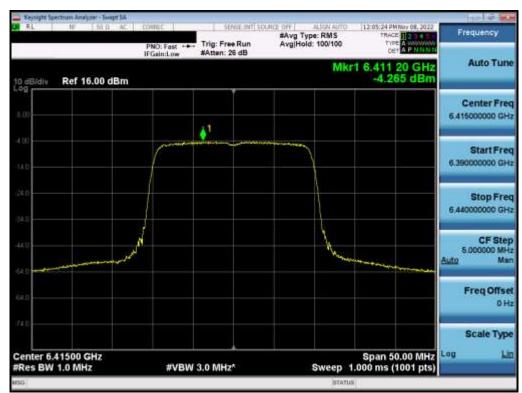
Plot 7-160. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 2)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-161. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 45)

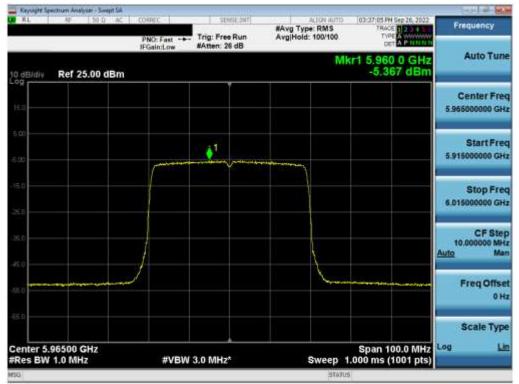


Plot 7-162. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 93)

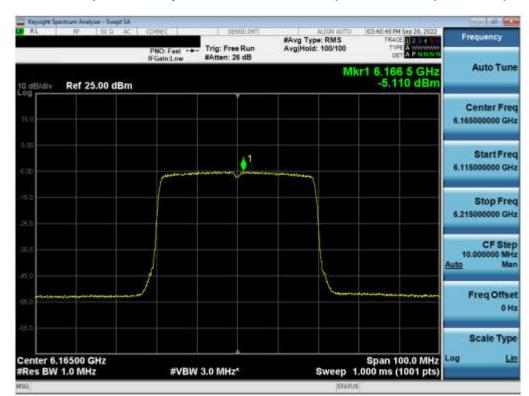
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-163. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 3)



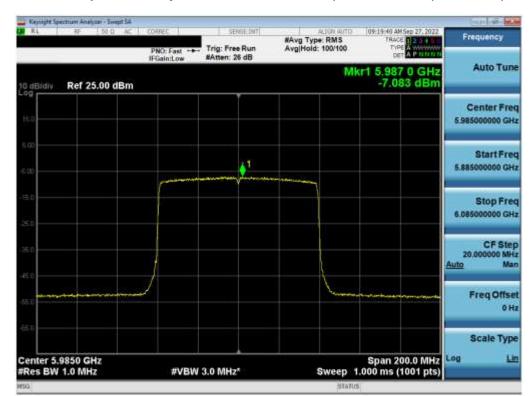
Plot 7-164. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 43)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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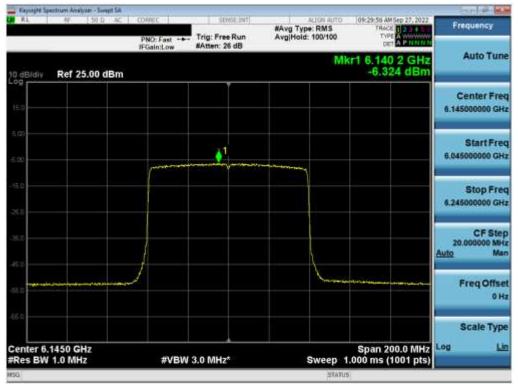
Plot 7-165. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 91)



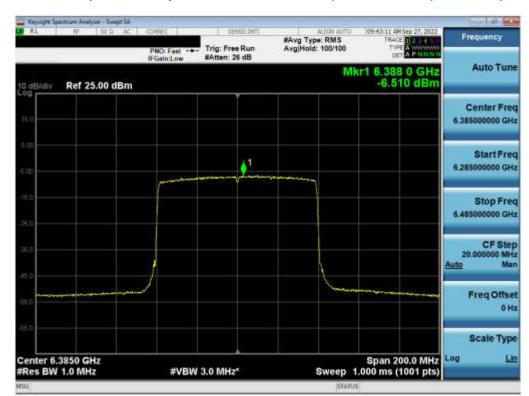
Plot 7-166. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 7)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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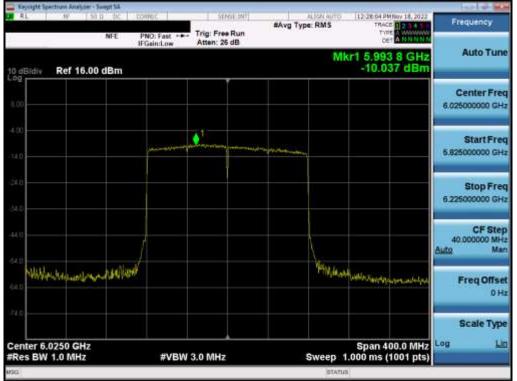
Plot 7-167. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 39)



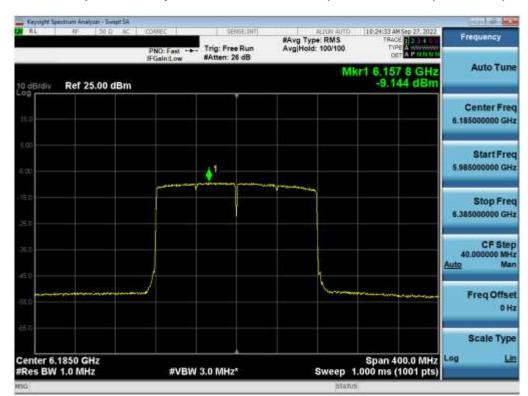
Plot 7-168. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 87)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-169. Power Spectral Density Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 15)



Plot 7-170. Power Spectral Density Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) – Ch. 47)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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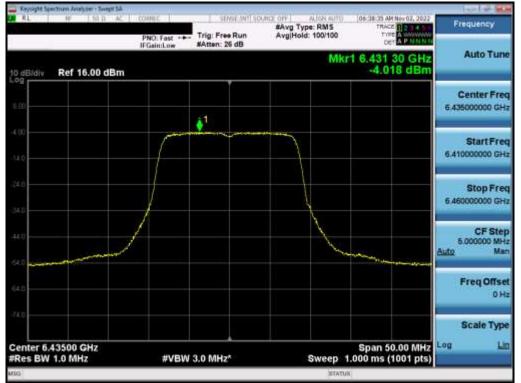


Plot 7-171. Power Spectral Density Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 79)

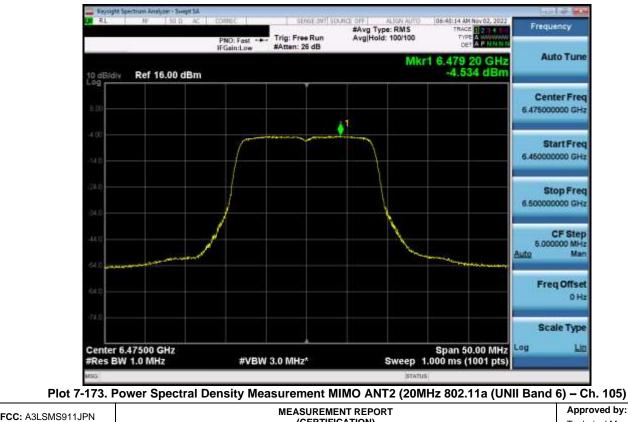
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Degs 111 of 220
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MIMO Antenna-2 Power Spectral Density Measurement - (UNII Band 6)

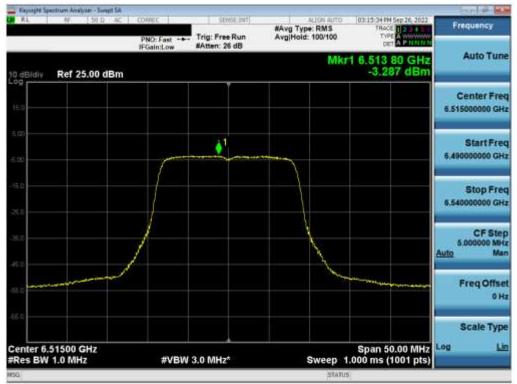


Plot 7-172. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 97)

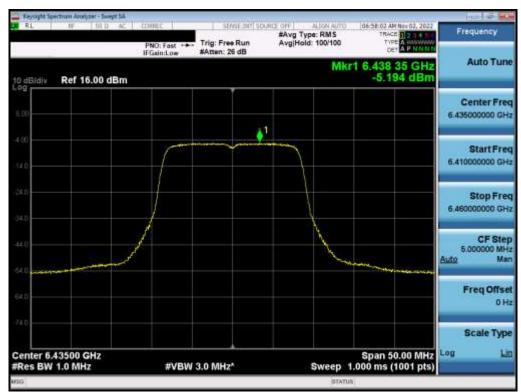


FCC: A3LSMS911JPN	(CERTIFICATION)		Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 112 of 239
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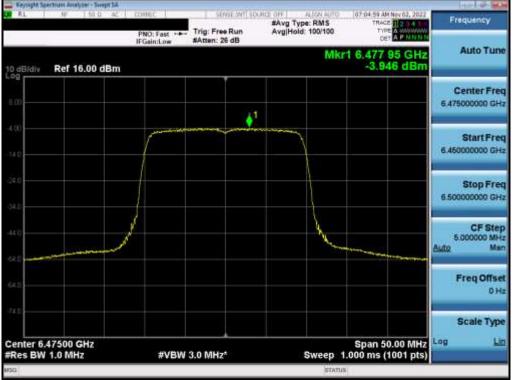
Plot 7-174. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 113)



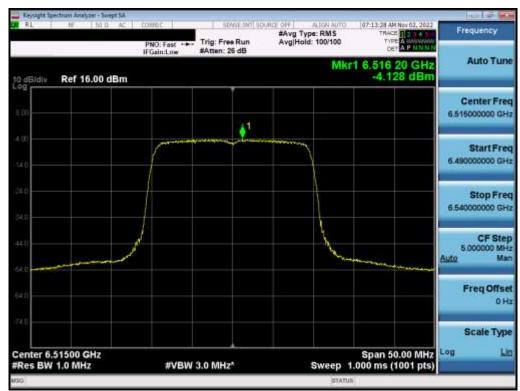
Plot 7-175. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 97)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 112 of 220
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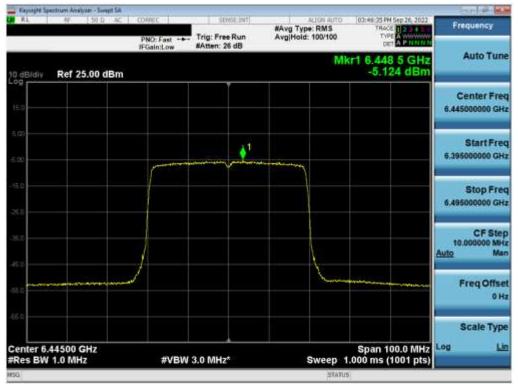
Plot 7-176. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 105)



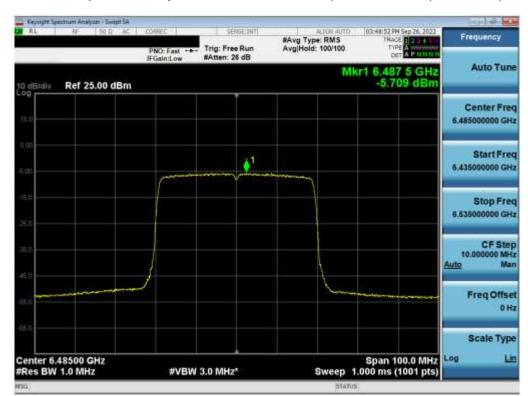
Plot 7-177. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 113)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 114 of 220
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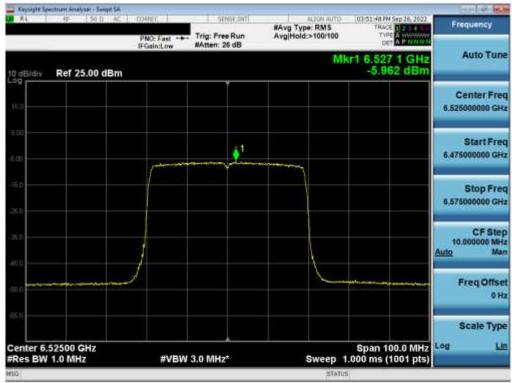
Plot 7-178. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 99)



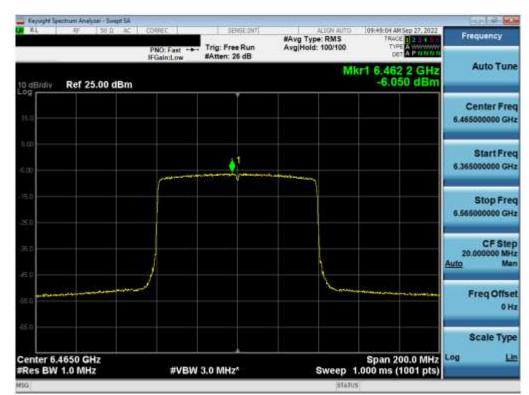
Plot 7-179. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 107)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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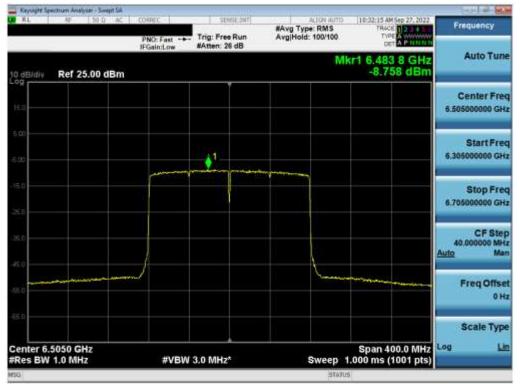
Plot 7-180. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 115)



Plot 7-181. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 6) - Ch. 103)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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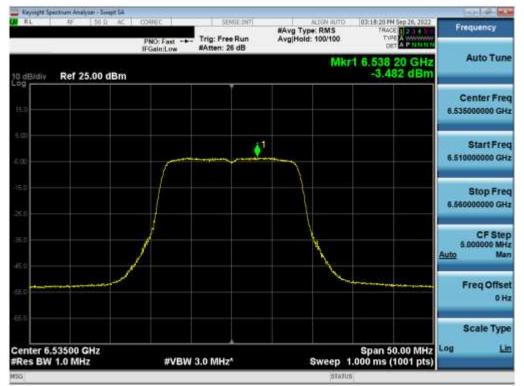


Plot 7-182. Power Spectral Density Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 6) - Ch. 111)

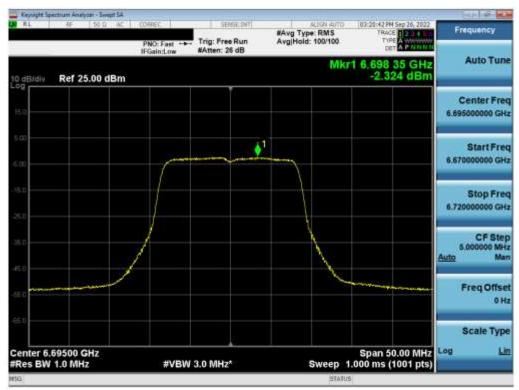
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 Power Spectral Density Measurement - (UNII Band 7)



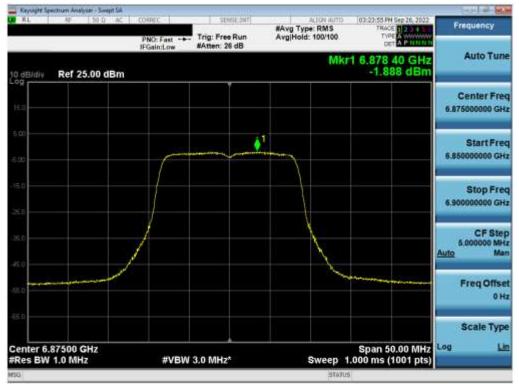
Plot 7-183. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) – Ch. 117)



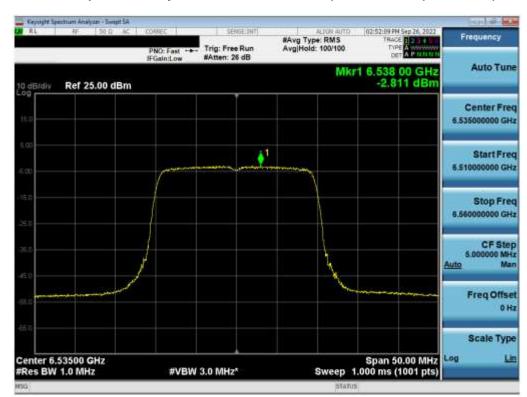
Plot 7-184. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 149)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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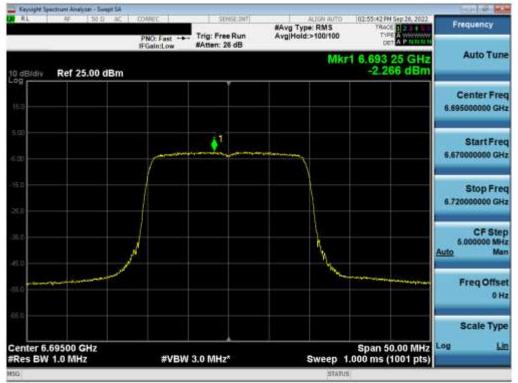
Plot 7-185. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 185)



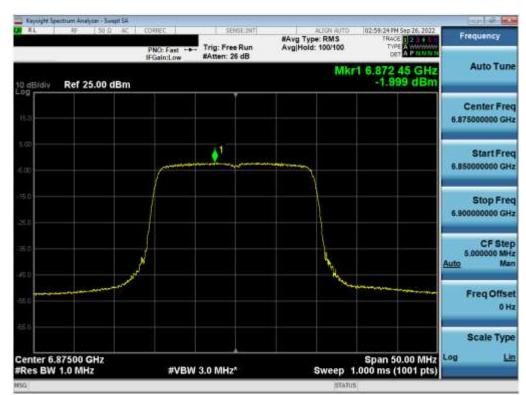
Plot 7-186. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 117)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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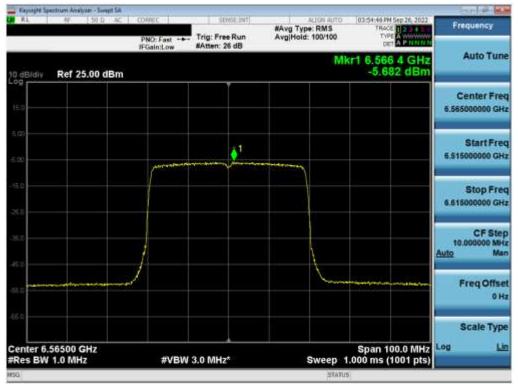
Plot 7-187. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 149)



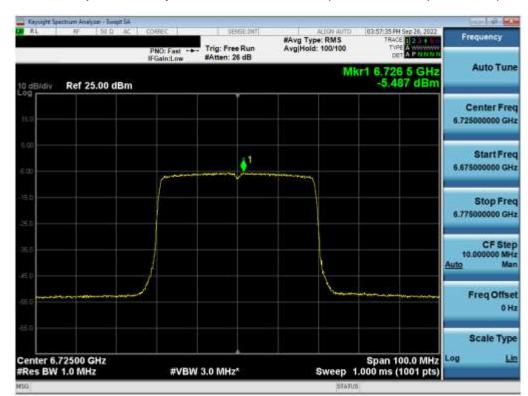
Plot 7-188. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 185)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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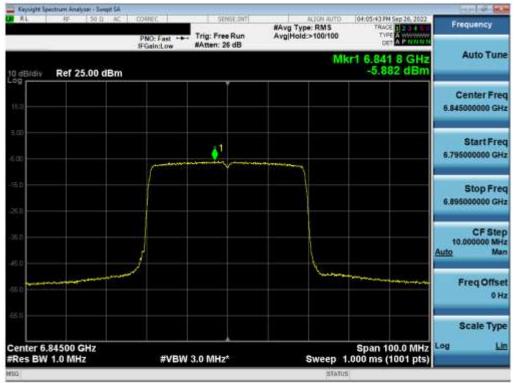
Plot 7-189. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 123)



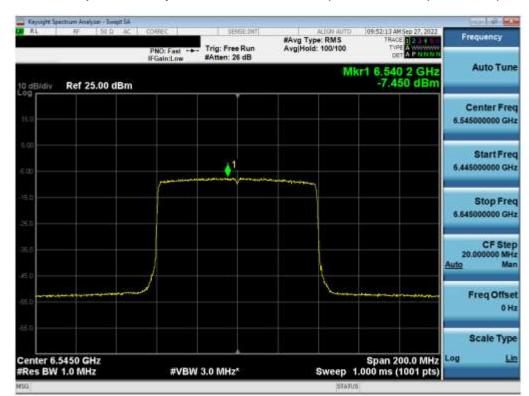
Plot 7-190. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 155)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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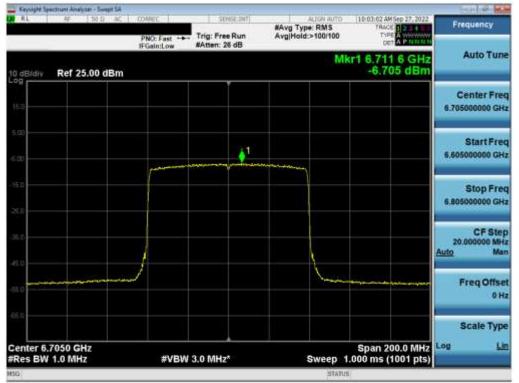
Plot 7-191. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 179)



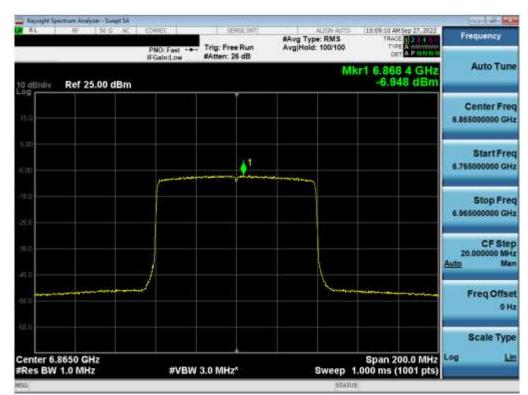
Plot 7-192. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 119)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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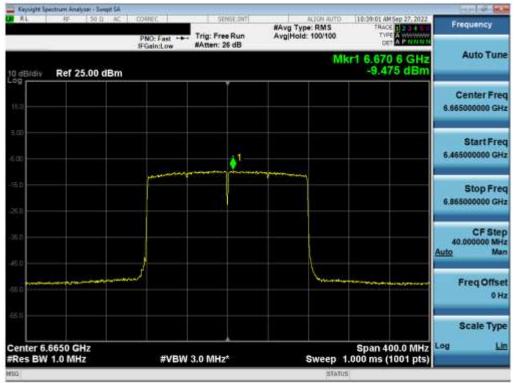
Plot 7-193. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 151)



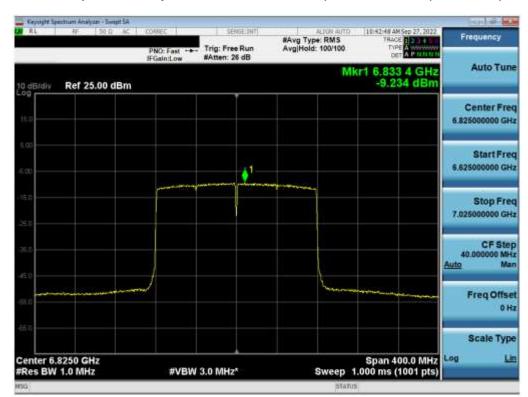
Plot 7-194. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 183)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-195. Power Spectral Density Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 143)

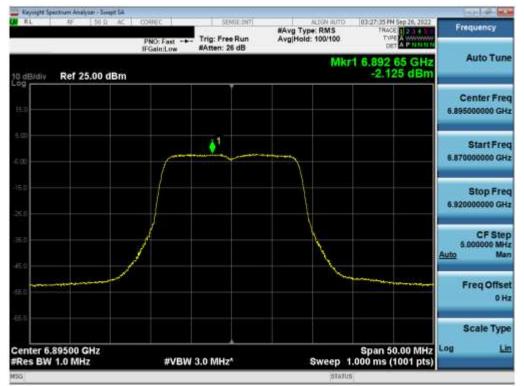


Plot 7-196. Power Spectral Density Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 175)

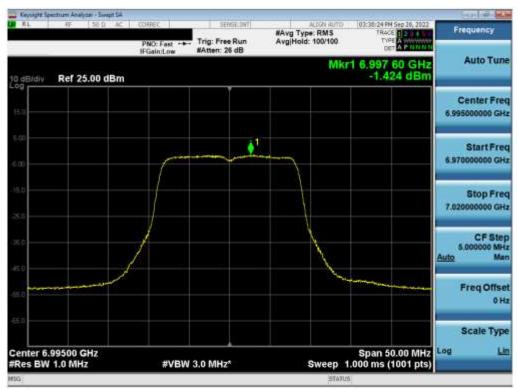
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 Power Spectral Density Measurement - (UNII Band 8)



Plot 7-197. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) – Ch. 189)



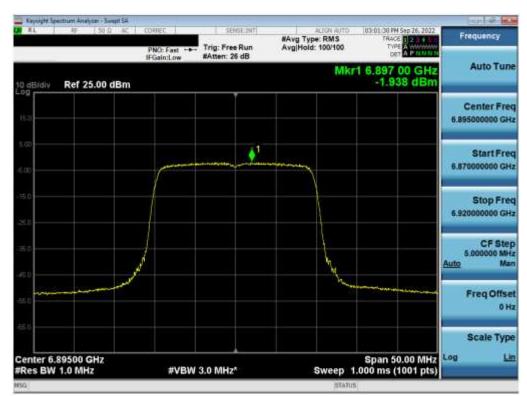
Plot 7-198. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 209)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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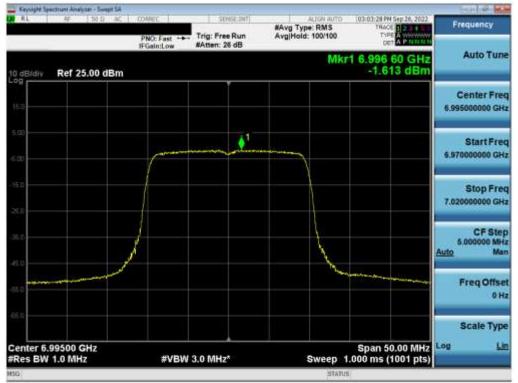
Plot 7-199. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 233)



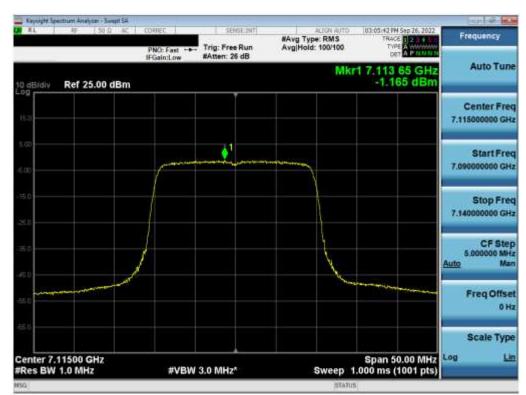
Plot 7-200. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 189)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-201. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 209)



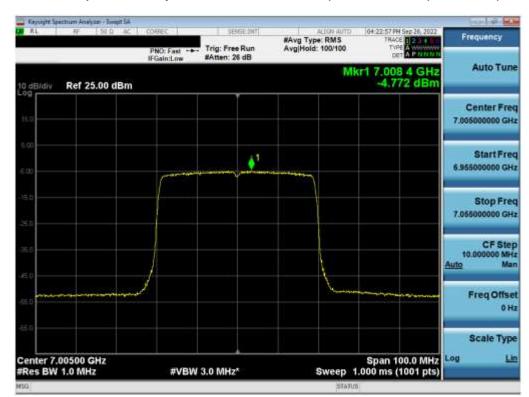
Plot 7-202. Power Spectral Density Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 233)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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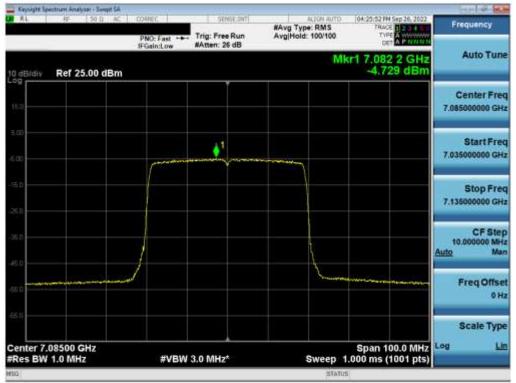
Plot 7-203. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 187)



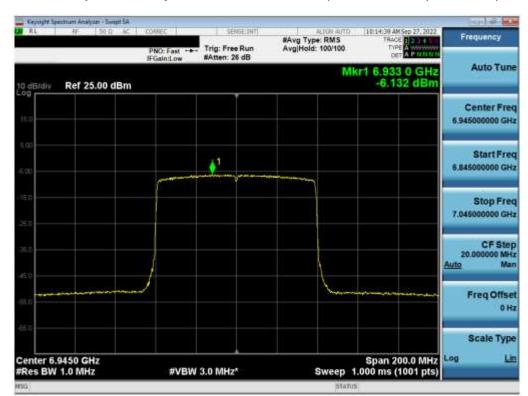
Plot 7-204. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 211)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-205. Power Spectral Density Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 227)



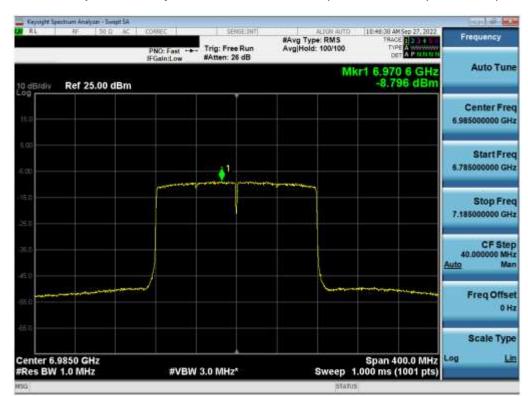
Plot 7-206. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 199)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-207. Power Spectral Density Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 215)



Plot 7-208. Power Spectral Density Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 8) - Ch. 207)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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.

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[(10Gt/20 + 10G2/20 + ... + 10GN/20)2 / NANT] dBi

Sample MIMO Calculation:

At 5935MHz in 802.11a (20MHz BW) mode, the average conducted power spectral density was measured to be -1.13 dBm for Antenna-1 and -1.30 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(-1.13 dBm + -1.30 dBm) = (0.77 mW + 0.74 mW) = 1.51 mW = 1.80 dBm

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

At 5955 MHz in 802.11a (20MHz BW) mode, the average MIMO power density was calculated to be 1.80 dBm with directional gain of -2.85 dBi.

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

1.80 dBm + -2.85 dBi = -1.05 dBm

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7.5 In-Band Emissions – 802.11a/ax §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 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 v01r01

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.)
 - j) 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.

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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

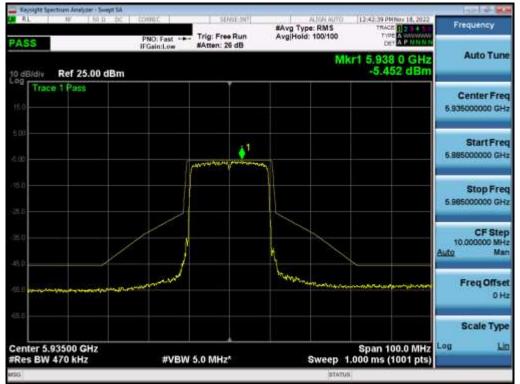
Test Notes

None.

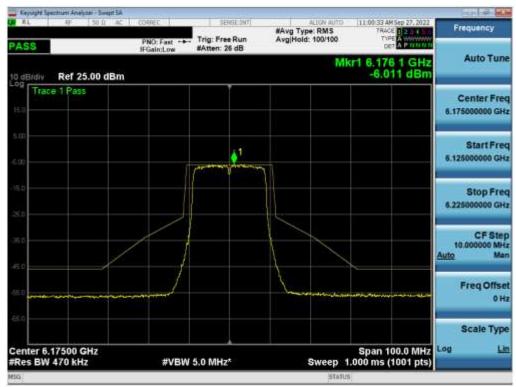
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MIMO Antenna-1 In-Band Emission Plot Measurement - (UNII Band 5)



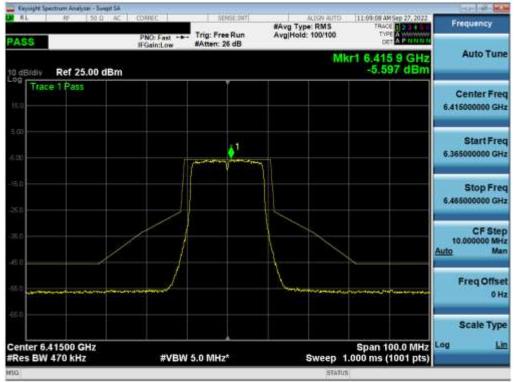
Plot 7-209. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 5) – Ch. 2)



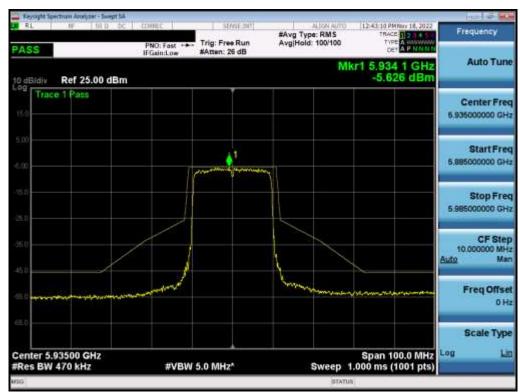
Plot 7-210. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 5) - Ch. 45)

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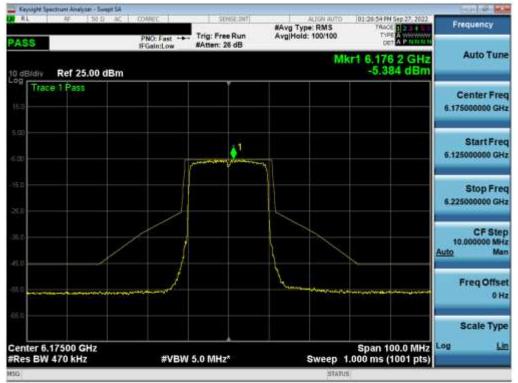
Plot 7-211. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 5) - Ch. 93)



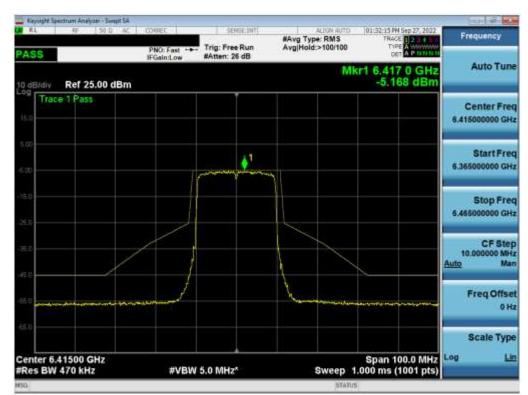
Plot 7-212. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 5) - Ch. 2)

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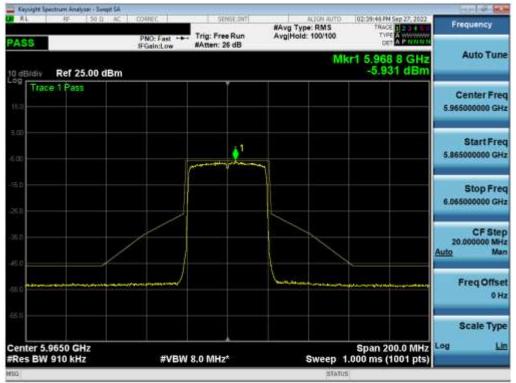
Plot 7-213. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 5) - Ch. 45)



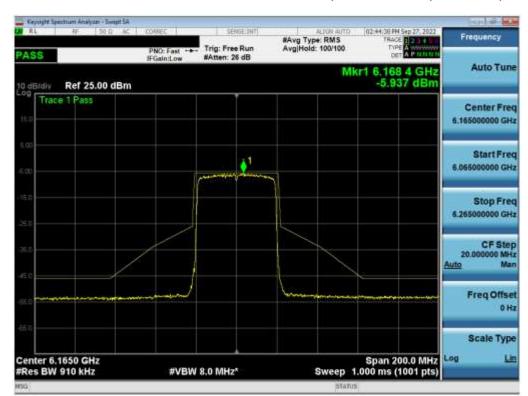
Plot 7-214. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 5) - Ch. 93)

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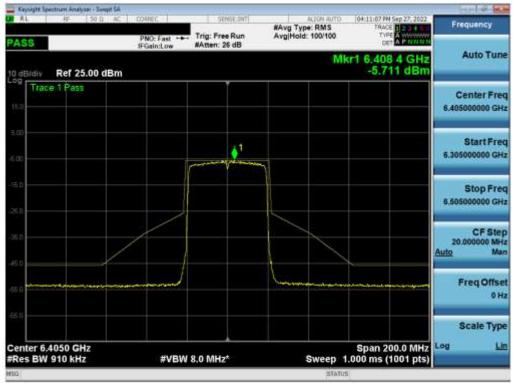
Plot 7-215. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 5) - Ch. 3)



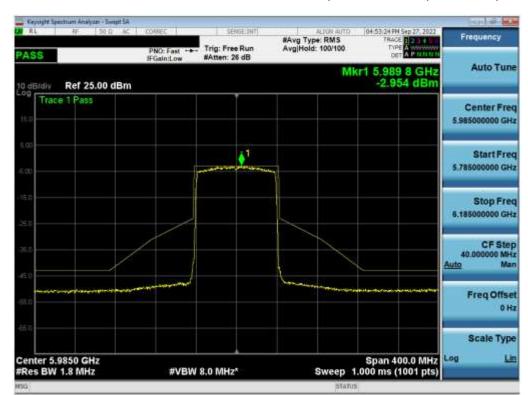
Plot 7-216. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 5) - Ch. 43)

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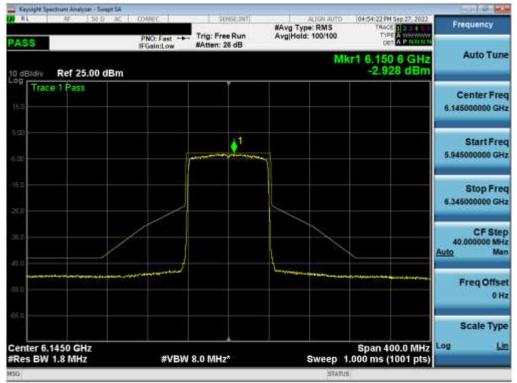
Plot 7-217. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 5) - Ch. 91)



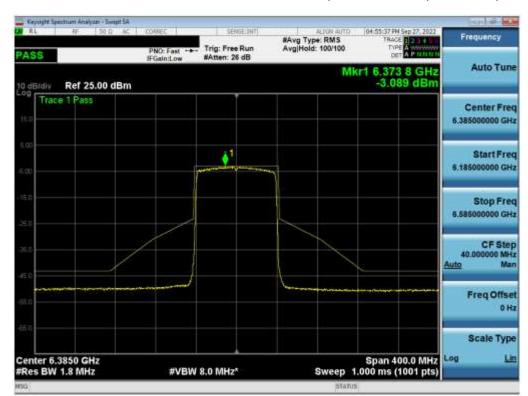
Plot 7-218. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 5) - Ch. 7)

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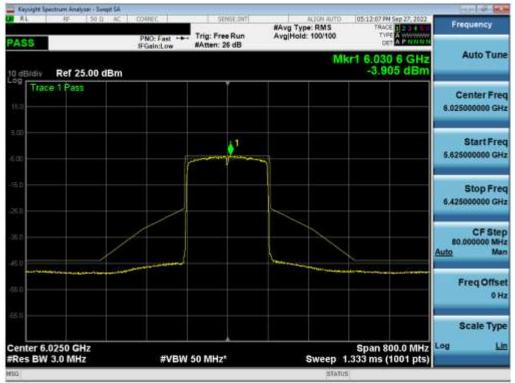
Plot 7-219. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 5) - Ch. 39)



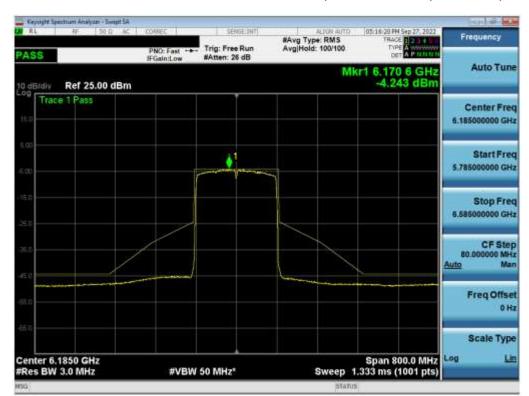
Plot 7-220. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 5) - Ch. 87)

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Plot 7-221. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 15)



Plot 7-222. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 47)

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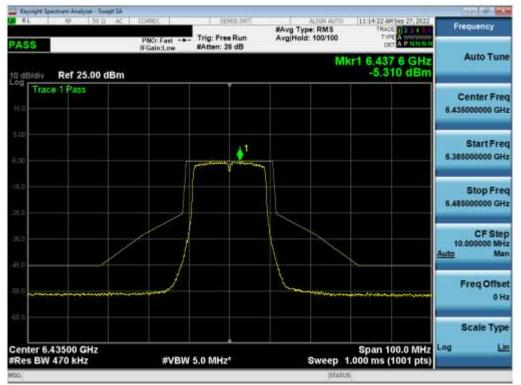


Plot 7-223. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 5) - Ch. 79)

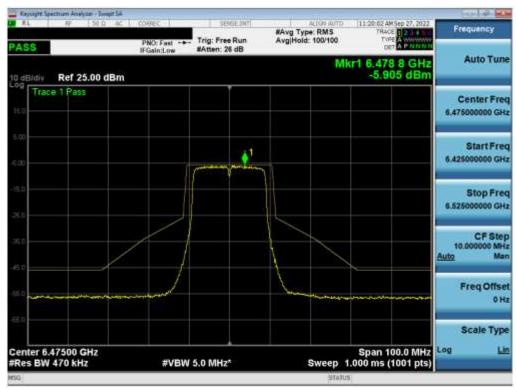
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-1 In-Band Emission Plot Measurement - (UNII Band 6)



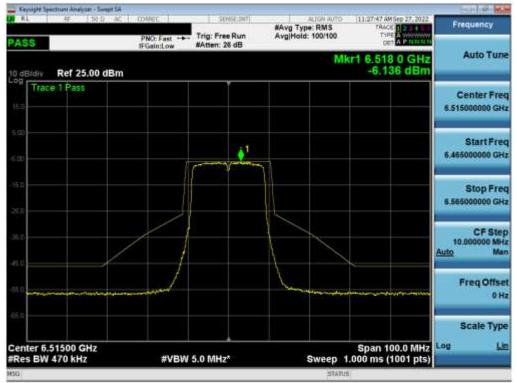
Plot 7-224. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 97)



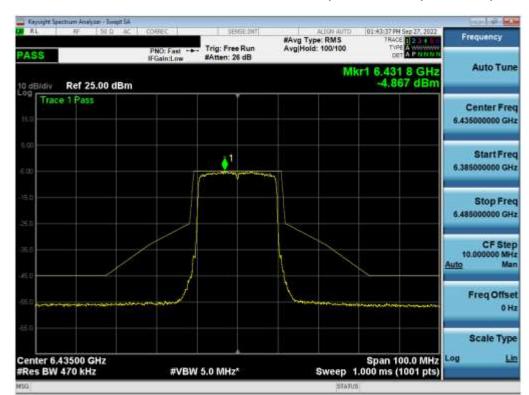
Plot 7-225. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 105)

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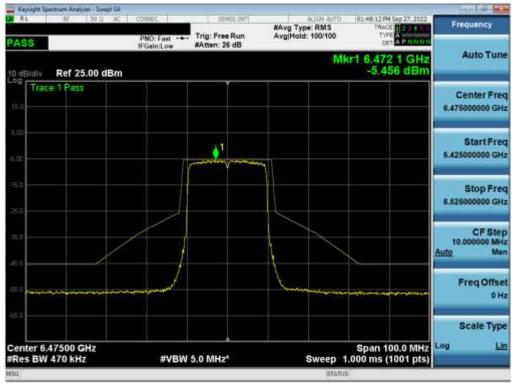
Plot 7-226. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 6) - Ch. 113)



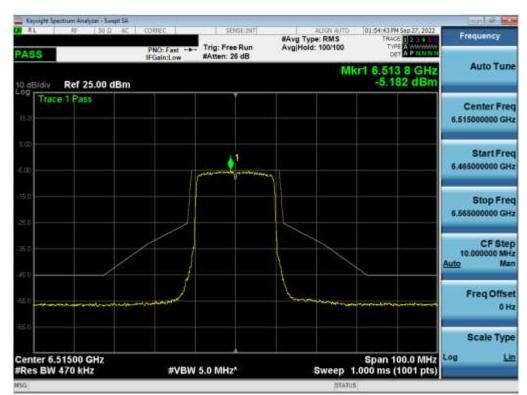
Plot 7-227. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 97)

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Plot 7-228. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 105)

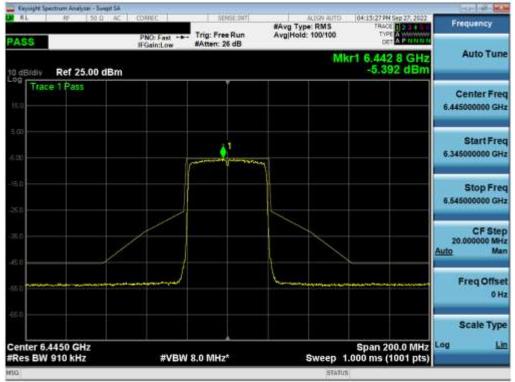


Plot 7-229. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 6) - Ch. 113)

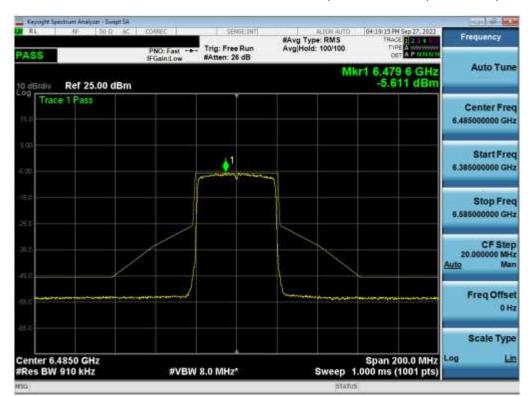
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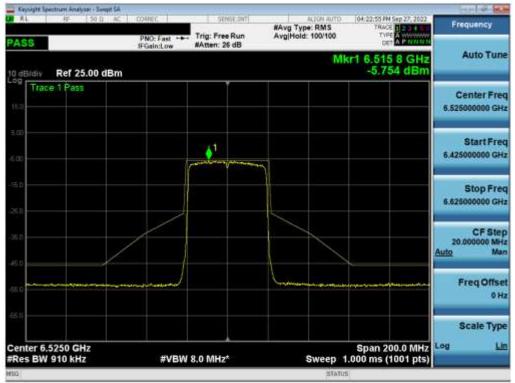
Plot 7-230. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 99)



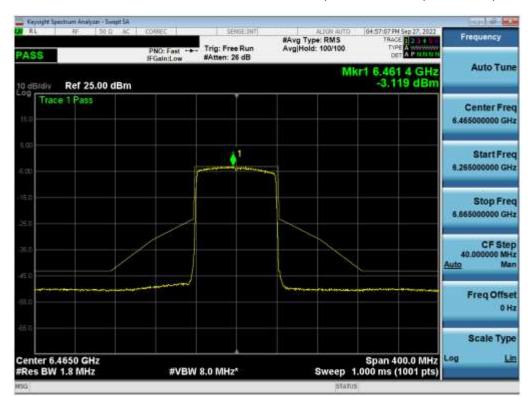
Plot 7-231. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 107)

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Plot 7-232. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 6) - Ch. 115)



Plot 7-233. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 6) - Ch. 103)

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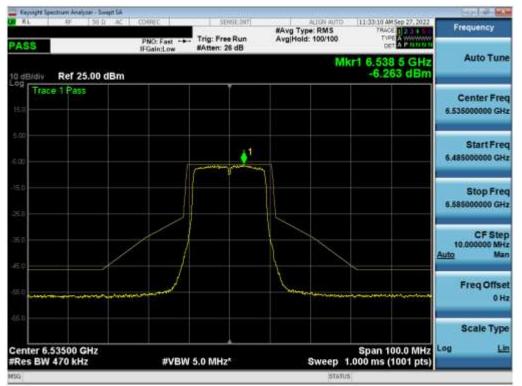


Plot 7-234. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 6) - Ch. 111)

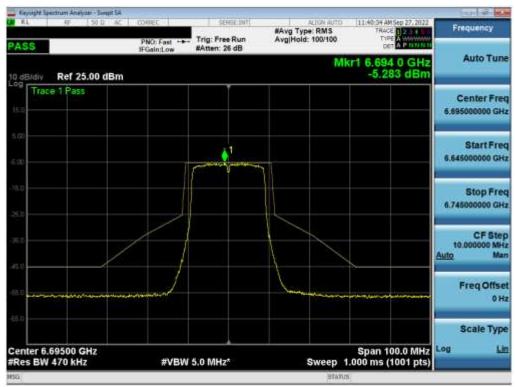
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-1 In-Band Emission Plot Measurement - (UNII Band 7)



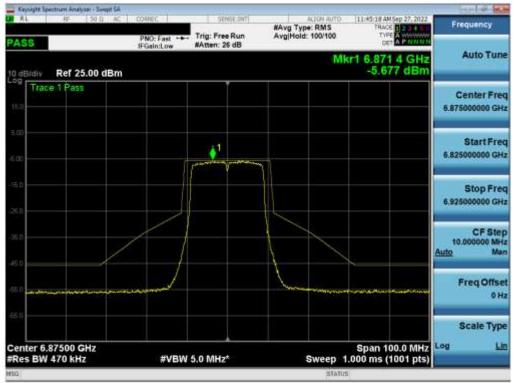
Plot 7-235. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 117)



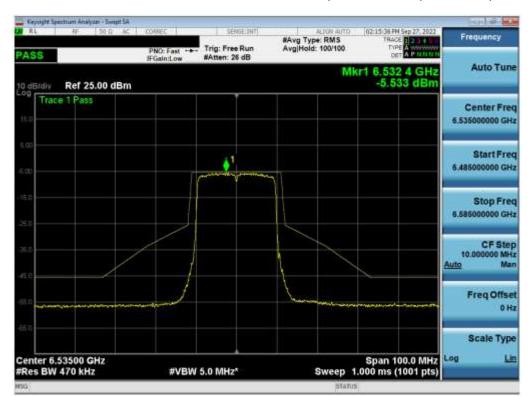
Plot 7-236. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 149)

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Plot 7-237. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 7) - Ch. 185)

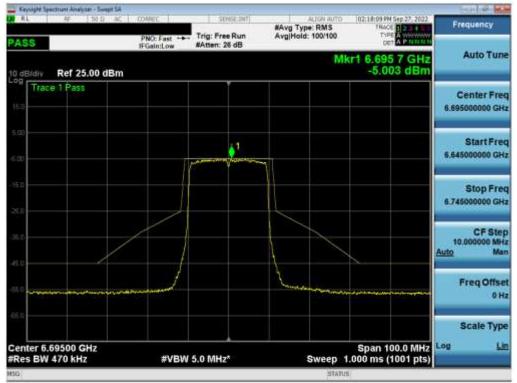


Plot 7-238. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 117)

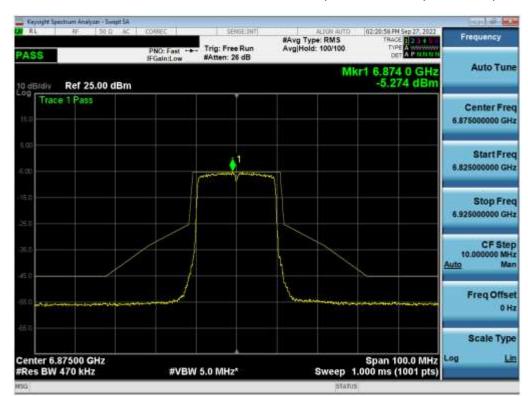
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Plot 7-239. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 149)

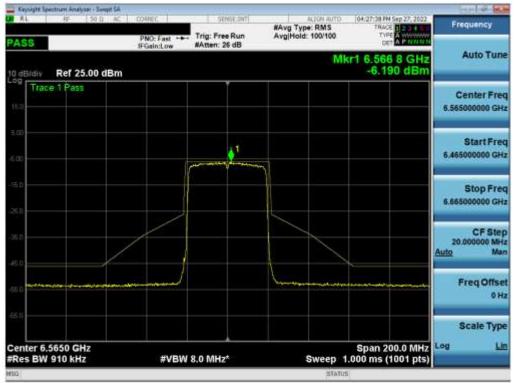


Plot 7-240. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 7) - Ch. 185)

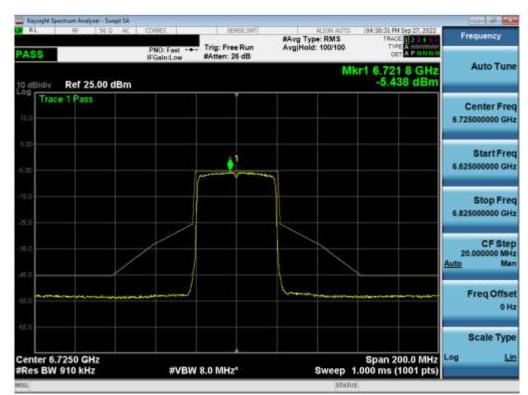
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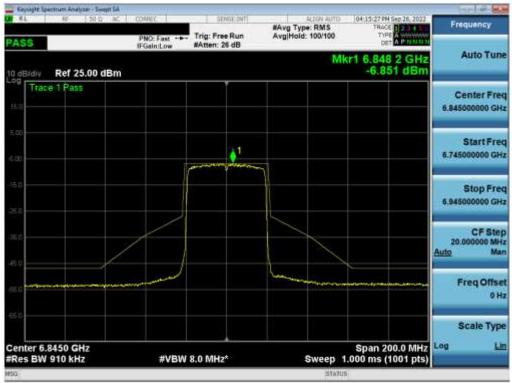
Plot 7-241. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 123)



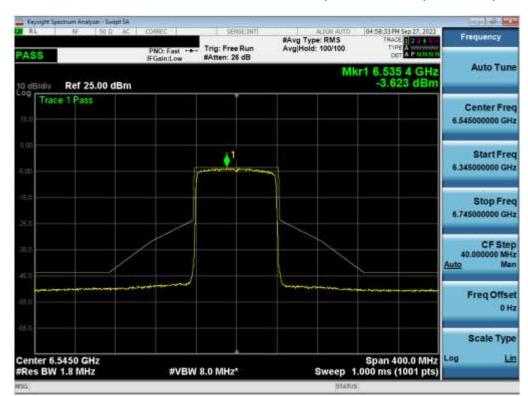
Plot 7-242. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 155)

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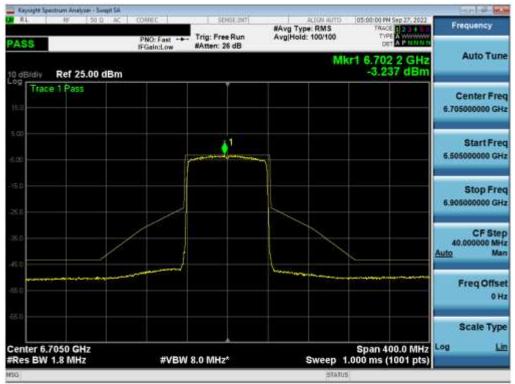
Plot 7-243. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 7) - Ch. 179)



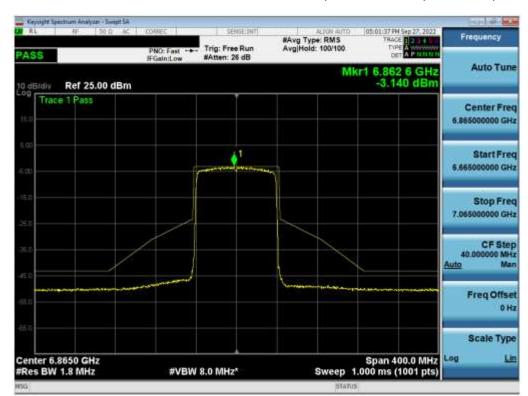
Plot 7-244. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 119)

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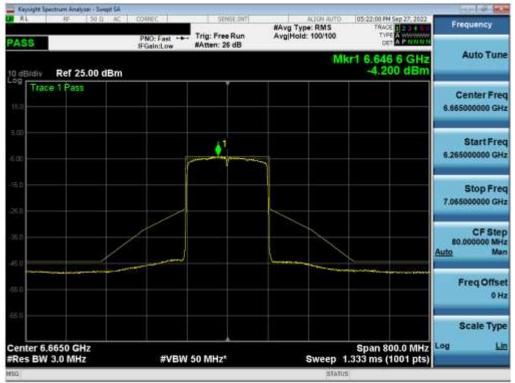
Plot 7-245. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 151)



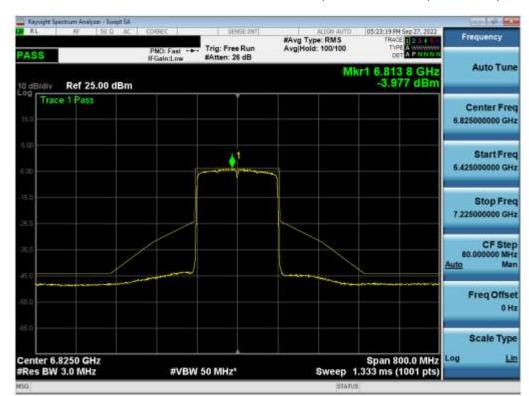
Plot 7-246. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 7) - Ch. 183)

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Plot 7-247. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 7) - Ch. 143)

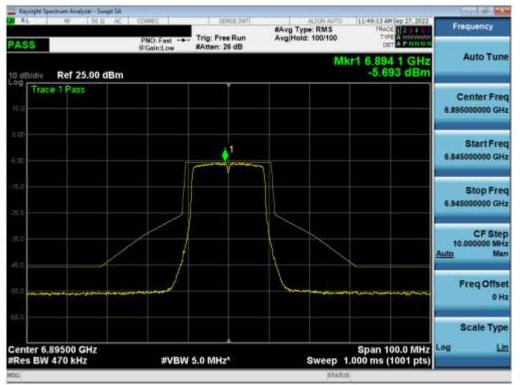


Plot 7-248. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 7) - Ch. 175)

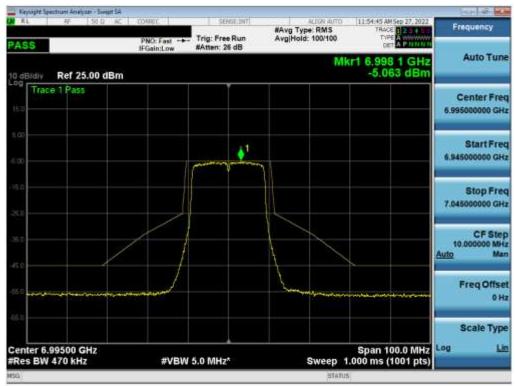
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-1 In-Band Emission Plot Measurement - (UNII Band 8)



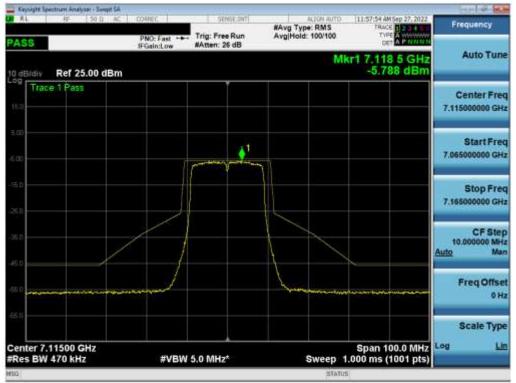
Plot 7-249. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 189)



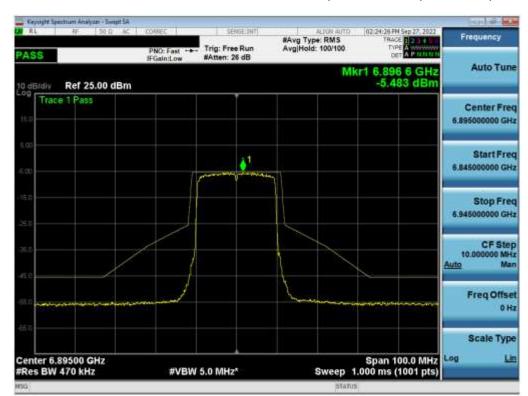
Plot 7-250. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 209)

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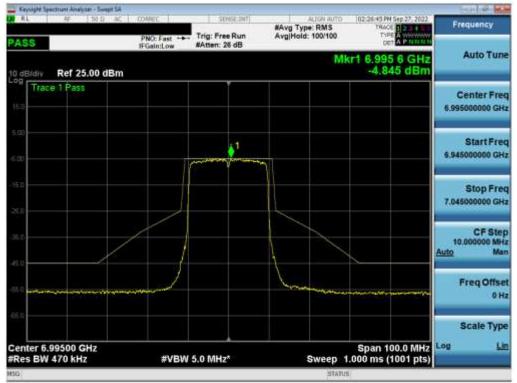
Plot 7-251. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11a (UNII Band 8) - Ch. 233)



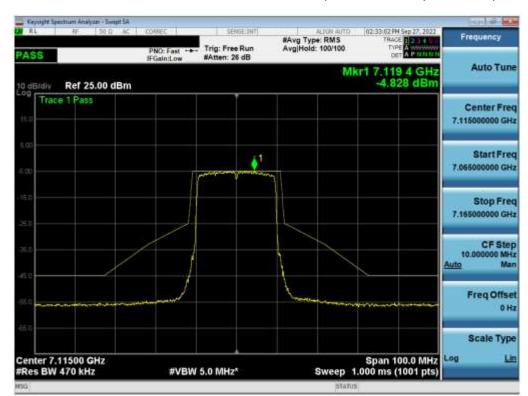
Plot 7-252. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 189)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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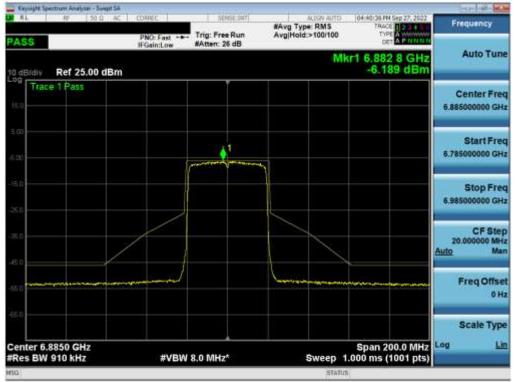
Plot 7-253. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 209)



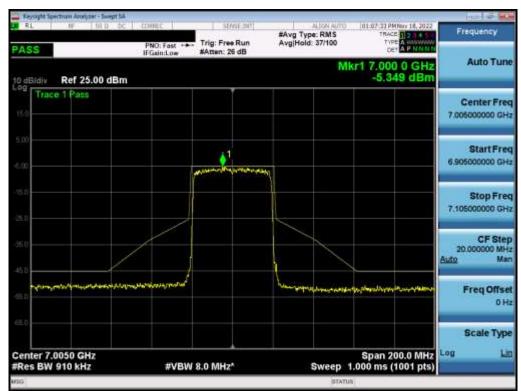
Plot 7-254. In-Band Emission Plot Measurement MIMO ANT1 (20MHz 802.11ax (UNII Band 8) - Ch. 233)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-255. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 187)

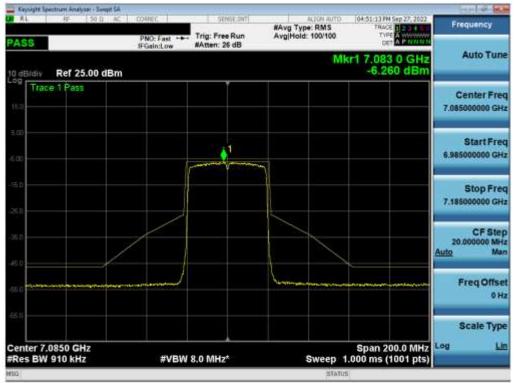


Plot 7-256. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 211)

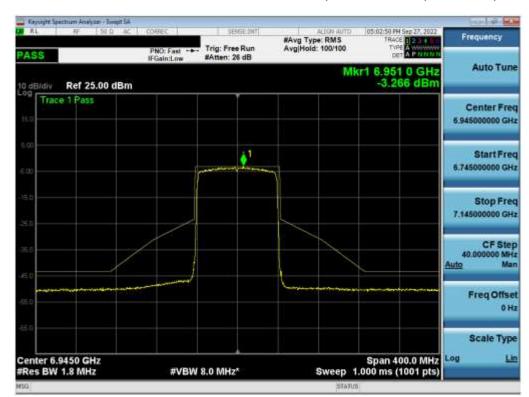
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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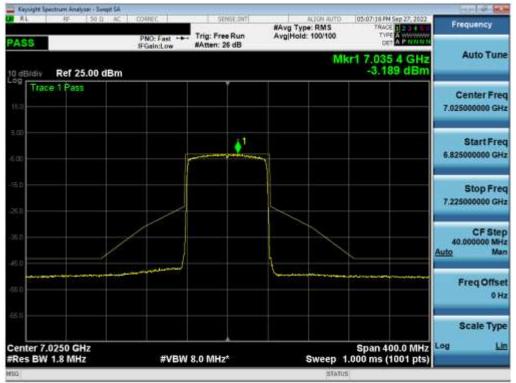
Plot 7-257. In-Band Emission Plot Measurement MIMO ANT1 (40MHz 802.11ax (UNII Band 8) - Ch. 227)



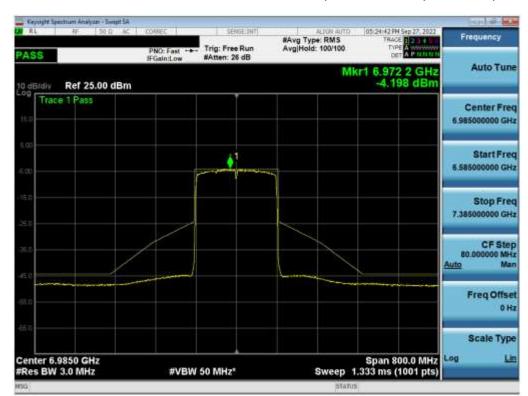
Plot 7-258. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 8) - Ch. 199)

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Plot 7-259. In-Band Emission Plot Measurement MIMO ANT1 (80MHz 802.11ax (UNII Band 8) - Ch. 215)

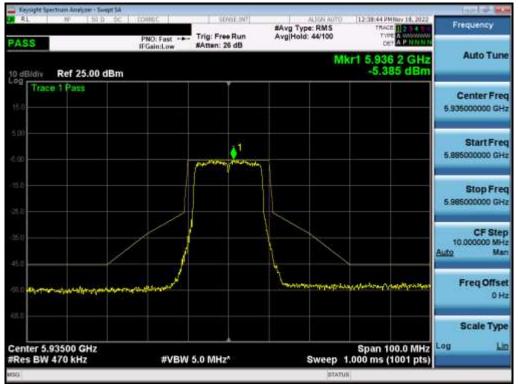


Plot 7-260. In-Band Emission Plot Measurement MIMO ANT1 (160MHz 802.11ax (UNII Band 8) - Ch. 207)

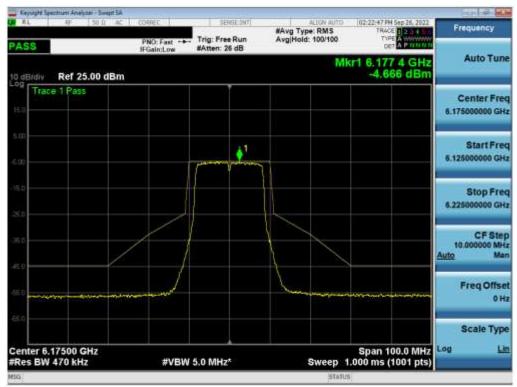
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 5)



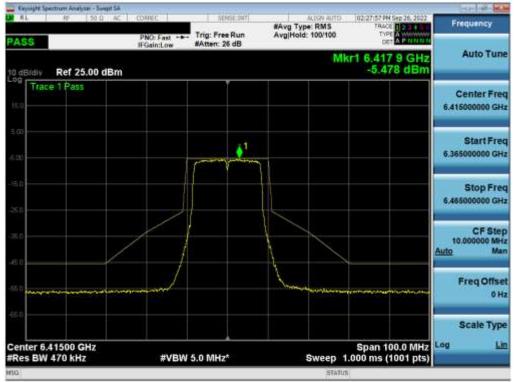
Plot 7-261. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 5) – Ch. 2)



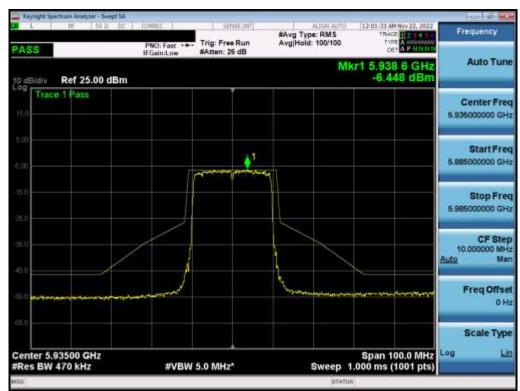
Plot 7-262. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 45)

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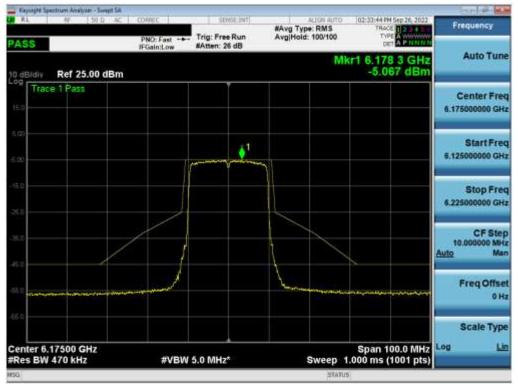
Plot 7-263. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 5) - Ch. 93)



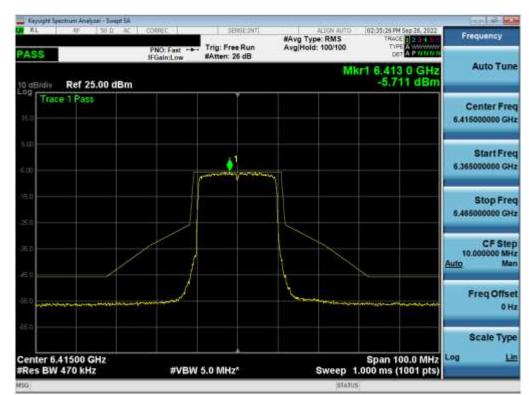
Plot 7-264. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 2)

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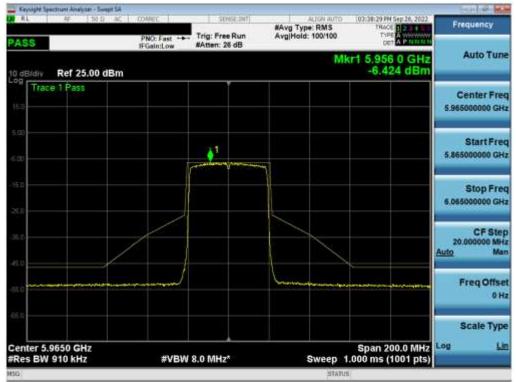
Plot 7-265. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 45)



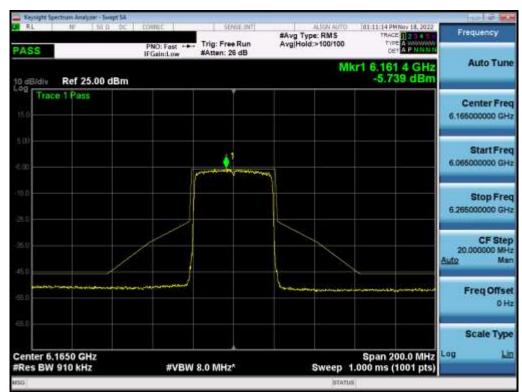
Plot 7-266. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 5) - Ch. 93)

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Plot 7-267. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 3)

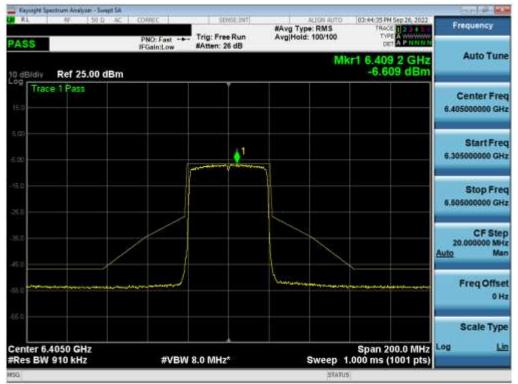


Plot 7-268. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 43)

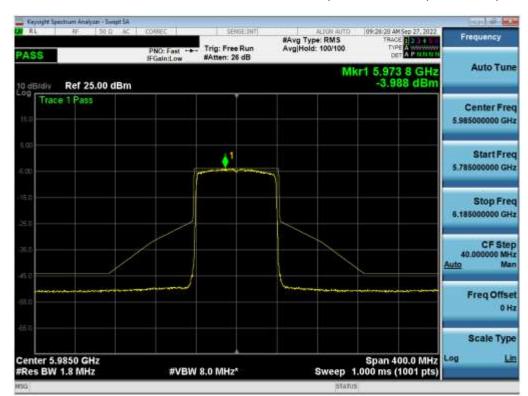
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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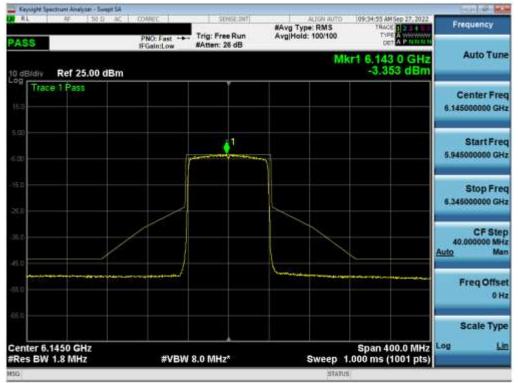
Plot 7-269. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 5) - Ch. 91)



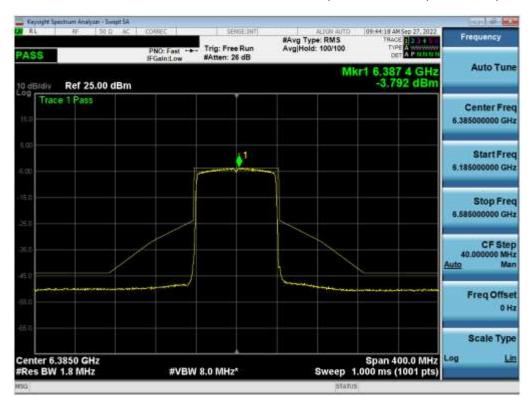
Plot 7-270. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 7)

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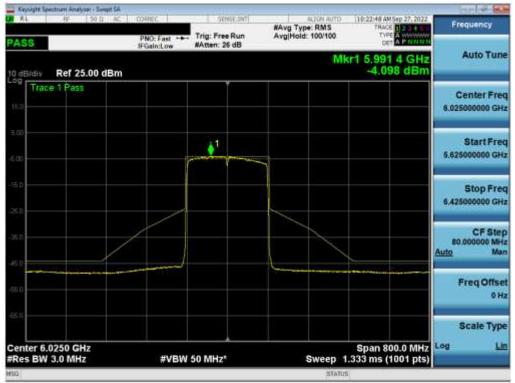
Plot 7-271. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 39)



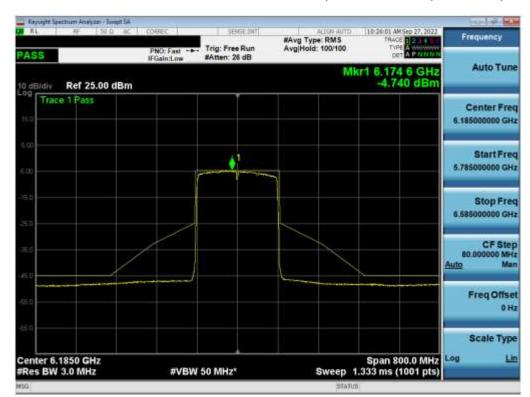
Plot 7-272. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 5) - Ch. 87)

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Plot 7-273. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 15)



Plot 7-274. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 47)

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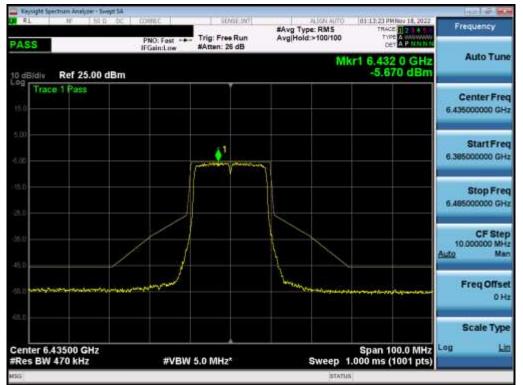


Plot 7-275. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 5) - Ch. 79)

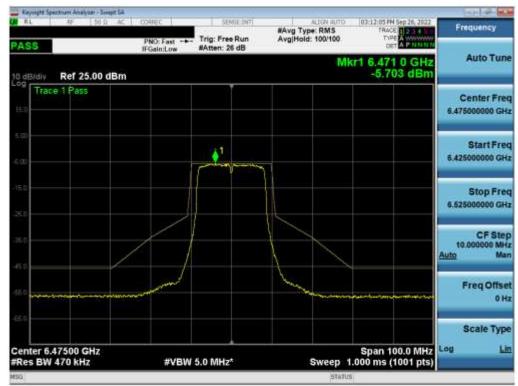
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 6)



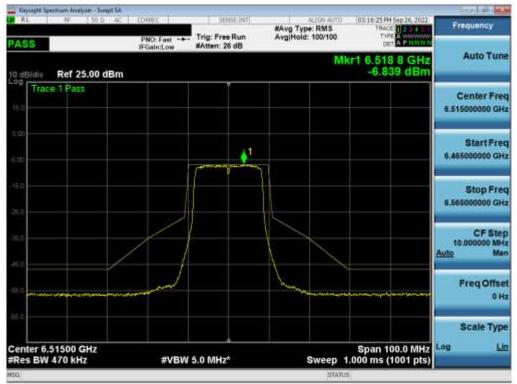
Plot 7-276. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 97)



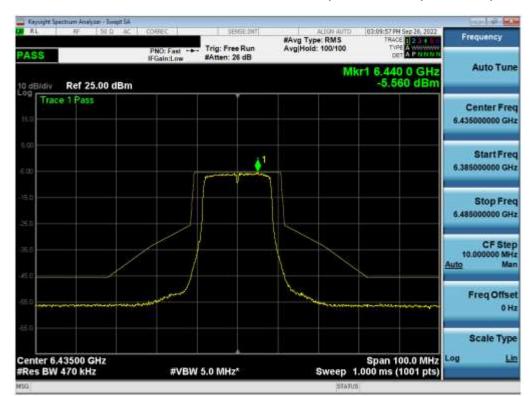
Plot 7-277. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 105)

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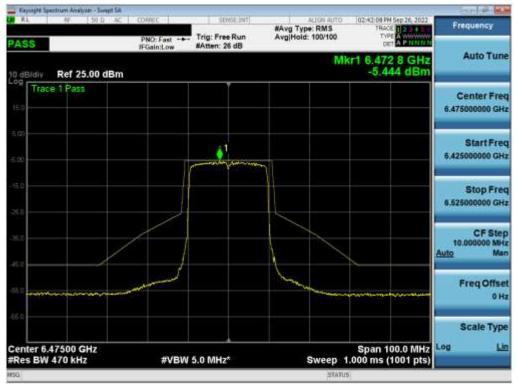
Plot 7-278. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 6) - Ch. 113)



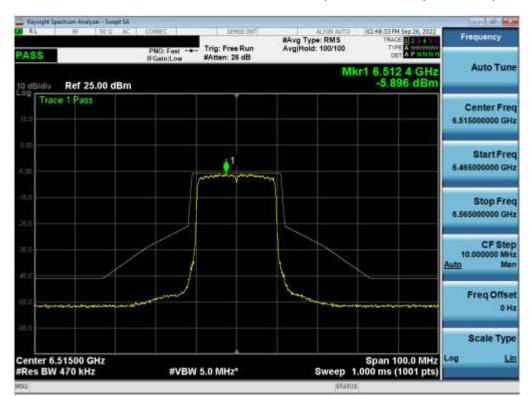
Plot 7-279. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 97)

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Plot 7-280. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 105)

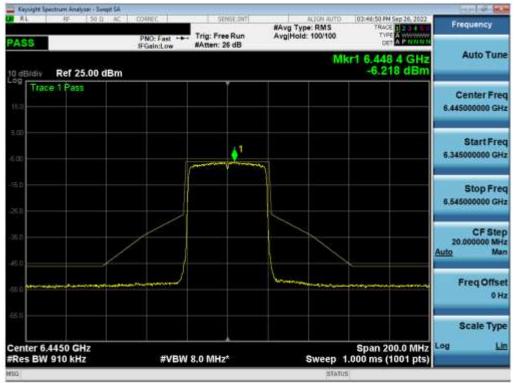


Plot 7-281. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 6) - Ch. 113)

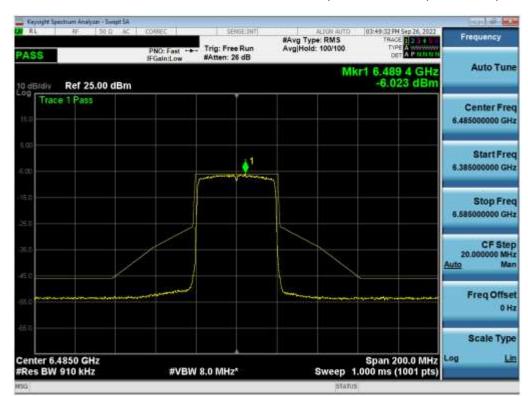
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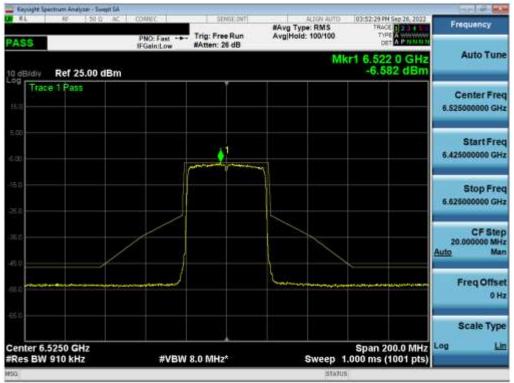
Plot 7-282. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 99)



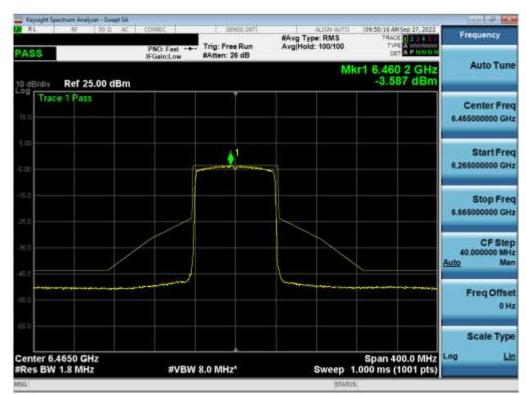
Plot 7-283. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 107)

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Plot 7-284. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 6) - Ch. 115)



Plot 7-285. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 6) - Ch. 103)

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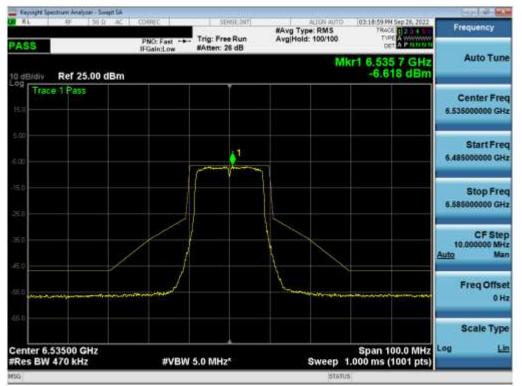


Plot 7-286. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 6) - Ch. 111)

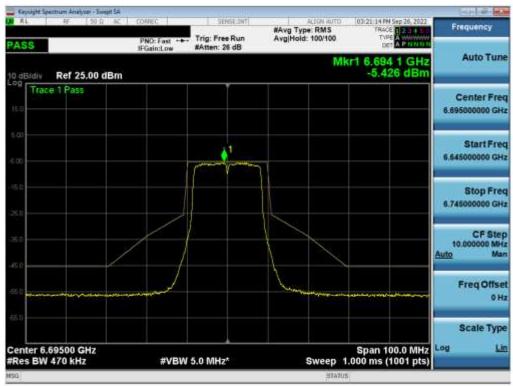
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MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 7)



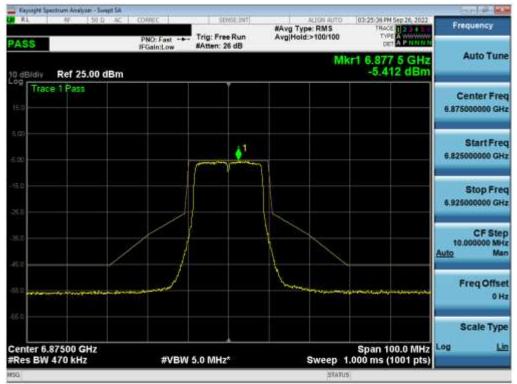
Plot 7-287. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 117)



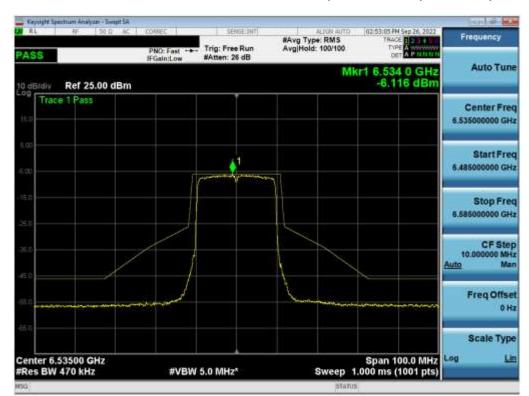
Plot 7-288. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 149)

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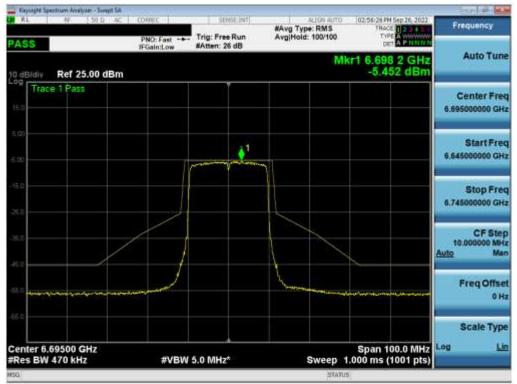
Plot 7-289. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 7) - Ch. 185)



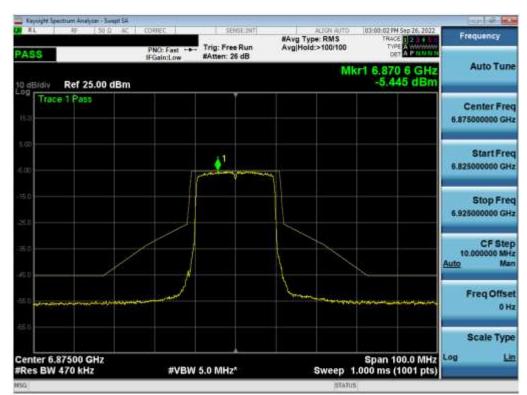
Plot 7-290. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 117)

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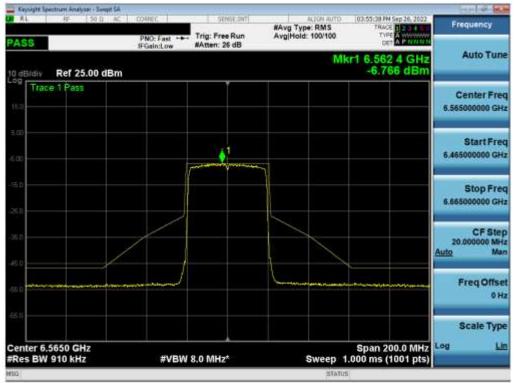
Plot 7-291. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 149)



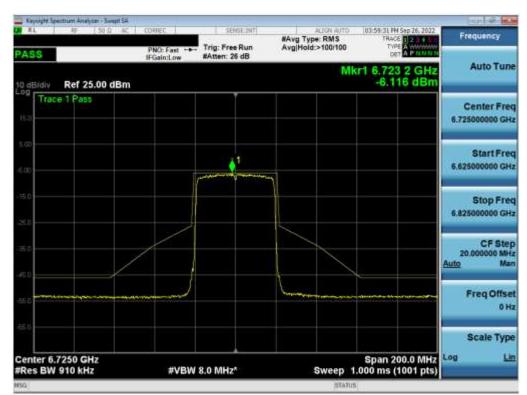
Plot 7-292. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 7) - Ch. 185)

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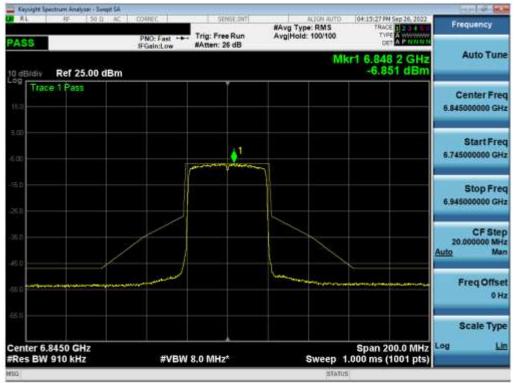
Plot 7-293. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 123)



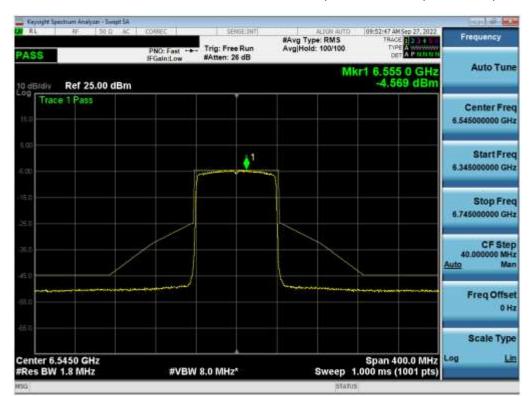
Plot 7-294. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 155)

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Plot 7-295. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 7) - Ch. 179)



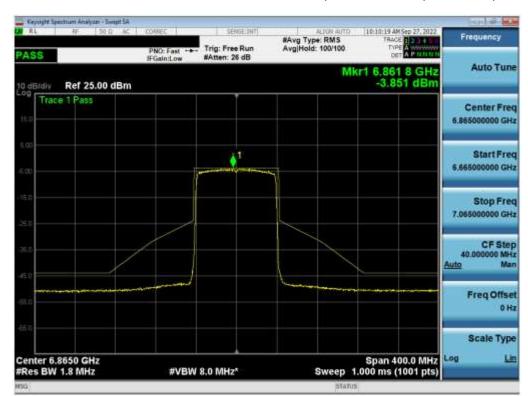
Plot 7-296. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 119)

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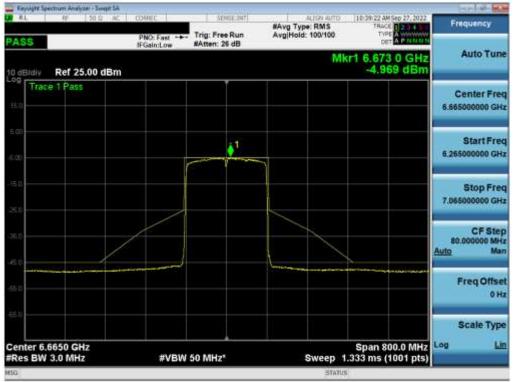
Plot 7-297. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 151)



Plot 7-298. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 7) - Ch. 183)

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Plot 7-299. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 143)

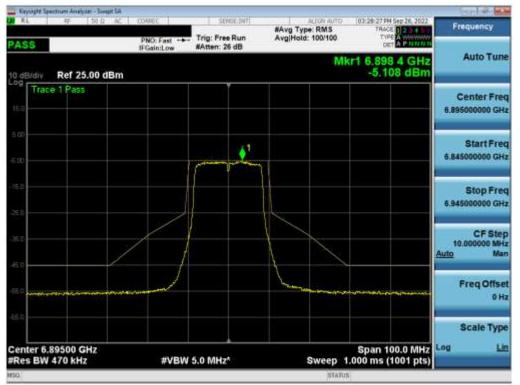


Plot 7-300. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 7) - Ch. 175)

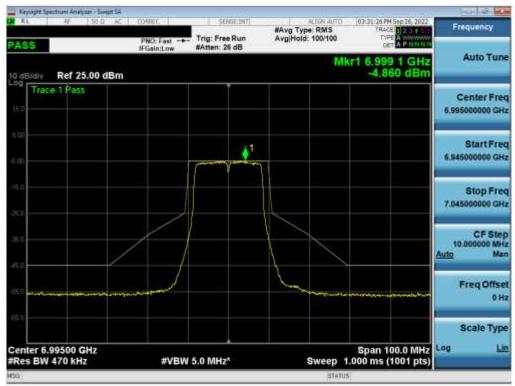
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 In-Band Emission Plot Measurement - (UNII Band 8)



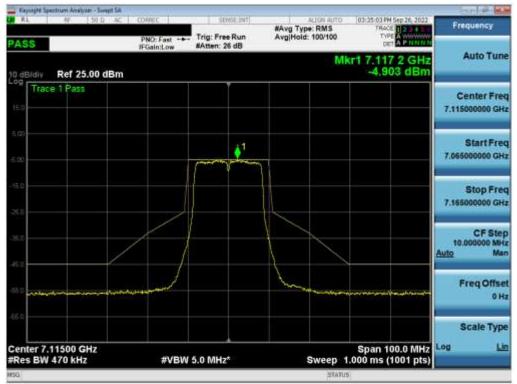
Plot 7-301. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 189)



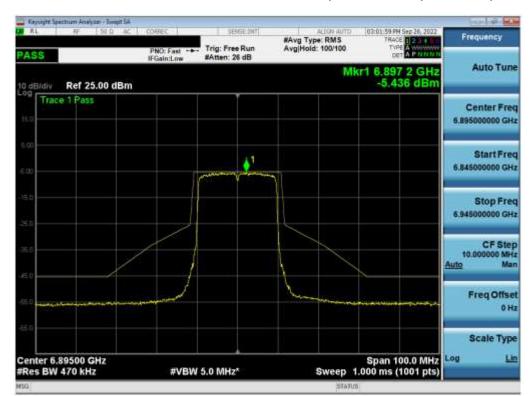
Plot 7-302. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 209)

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Plot 7-303. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11a (UNII Band 8) - Ch. 233)

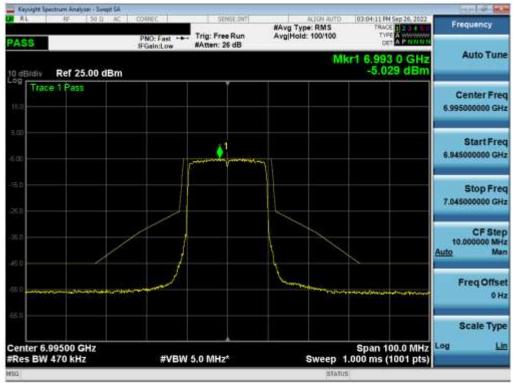


Plot 7-304. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 189)

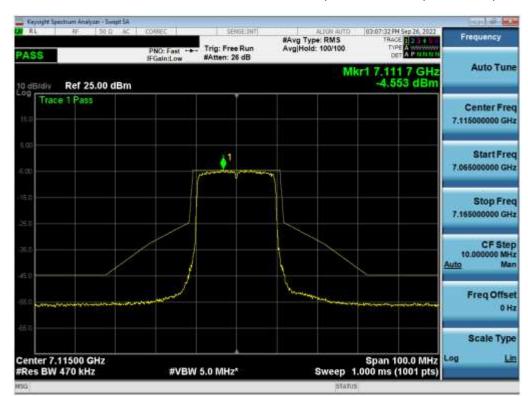
FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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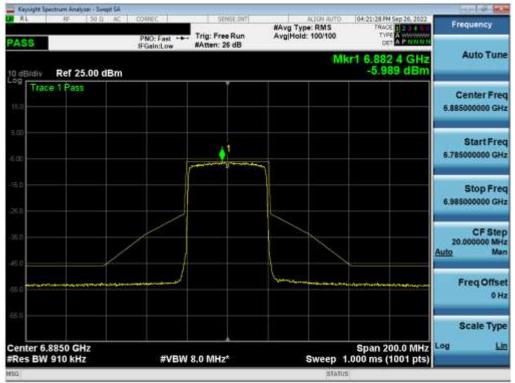
Plot 7-305. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 209)



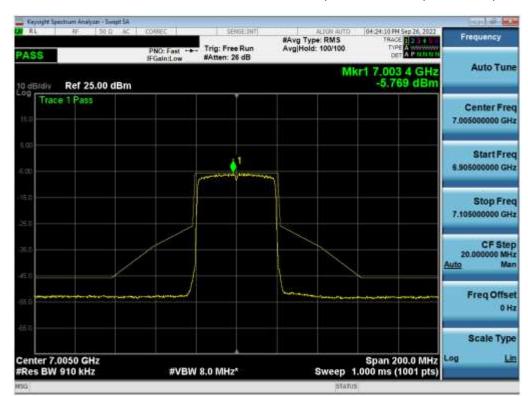
Plot 7-306. In-Band Emission Plot Measurement MIMO ANT2 (20MHz 802.11ax (UNII Band 8) - Ch. 233)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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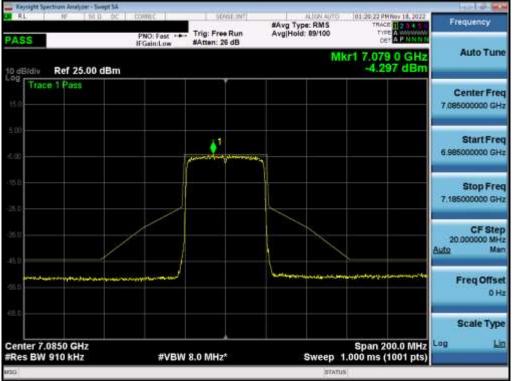
Plot 7-307. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 187)



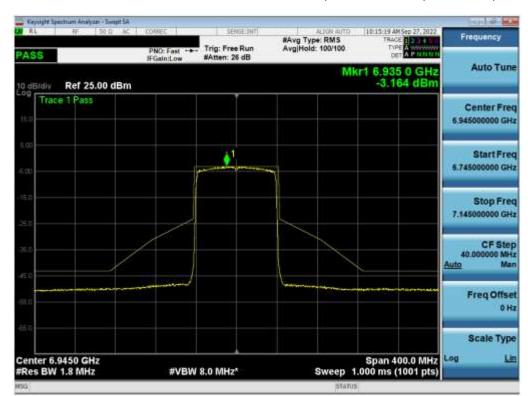
Plot 7-308. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 211)

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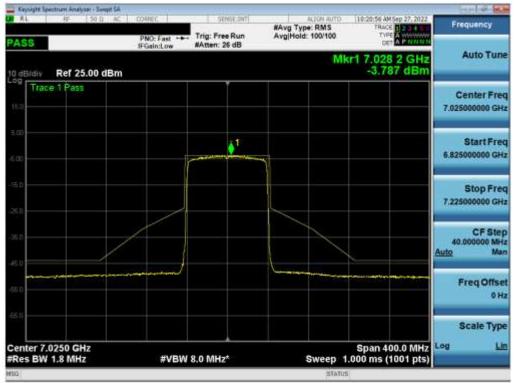
Plot 7-309. In-Band Emission Plot Measurement MIMO ANT2 (40MHz 802.11ax (UNII Band 8) - Ch. 227)



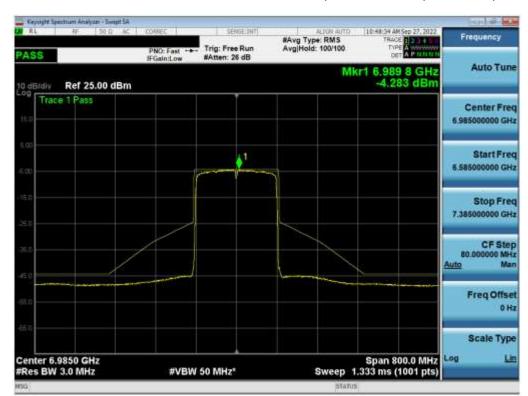
Plot 7-310. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 199)

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-311. In-Band Emission Plot Measurement MIMO ANT2 (80MHz 802.11ax (UNII Band 8) - Ch. 215)



Plot 7-312. In-Band Emission Plot Measurement MIMO ANT2 (160MHz 802.11ax (UNII Band 8) - Ch. 207)

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7.6 Contention Based Protocol – 802.11a/ax §15.407(d)(6)

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 as long as 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 v01r01

Test Settings

Configure the EUT to transmit with a constant duty cycle.

Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.

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.

Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.

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.

Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

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.

(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.

Refer to Table 1 of KDB 987594 D02 v01r01 to determine 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.

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Test Setup

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

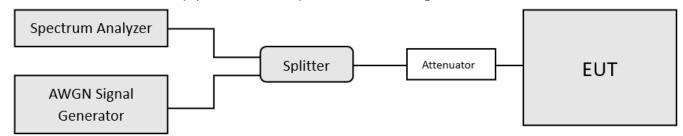


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

- 1. Per guidance from KDB 987594 D02 v01r01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-313). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-329), 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 ran in order 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 transmiting.

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

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
	53	6215	20	6215	-73.48	-7.62	-65.86	-62.0	-3.86
UNII				6110	-70.69	-7.62	-63.07	-62.0	-1.07
Band 5	47	6185	160	6185	-70.06	-7.62	-62.44	-62.0	-0.44
				6260	-74.85	-7.62	-67.23	-62.0	-5.23
	101	6455	20	6455	-81.92	-4.98	-76.94	-62.0	-14.94
UNII				6430	-73.98	-4.98	-69.00	-62.0	-7.00
Band 6	111	6505	160	6505	-69.72	-4.98	-64.74	-62.0	-2.74
				6580	-74.02	-4.98	-69.04	-62.0	-7.04
	149	6695	20	6695	-80.18	-7.18	-73.00	-62.0	-11.00
UNII				6750	-73.48	-7.18	-66.30	-62.0	-4.30
Band 7	175	6825	160	6825	-69.52	-7.18	-62.34	-62.0	-0.34
				6900	-72.37	-7.18	-65.19	-62.0	-3.19
	197	6935	20	6935	-79.01	-7.35	-71.66	-62.0	-9.66
UNII				6910	-70.49	-7.35	-63.14	-62.0	-1.14
Band 8	207	6985	160	6985	-70.87	-7.35	-63.52	-62.0	-1.52
				7060	-72.16	-7.35	-64.81	-62.0	-2.81

Equation 7-1. Detection Level Calculation

Table 7-8. Contention Based Protocol – Incumbent Detection Results

FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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		Channel	Channel BW		Antenna		ransmission S			
Band	Channel	Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Gain [dBi]	Normal	Minimal	Ceased	Detection Limit [dBm]	Margin [dB]
	53	6215	20	6215	-7.62	-68.66	-66.66	-65.86	-62.0	-3.86
UNII				6110	-7.62	-68.57	-66.57	-63.07	-62.0	-1.07
Band 5	47	6185	160	6185	-7.62	-62.84	-62.54	-62.44	-62.0	-0.44
				6260	-7.62	-67.83	-67.43	-67.23	-62.0	-5.23
	101	6455	20	6455	-4.98	-82.64	-80.64	-76.94	-62.0	-14.94
UNII				6430	-4.98	-70.30	-69.30	-69.00	-62.0	-7.00
Band 6	111	6505	160	6505	-4.98	-67.64	-65.64	-64.74	-62.0	-2.74
				6580	-4.98	-70.54	-69.54	-69.04	-62.0	-7.04
	149	6695	20	6695	-7.18	-82.40	-80.40	-73.00	-62.0	-11.00
UNII				6750	-7.18	-70.70	-66.70	-66.30	-62.0	-4.30
Band 7	175	6825	160	6825	-7.18	-62.94	-62.74	-62.34	-62.0	-0.34
				6900	-7.18	-69.69	-67.69	-65.19	-62.0	-3.19
	197	6935	20	6935	-7.35	-75.66	-74.66	-71.66	-62.0	-9.66
UNII				6910	-7.35	-68.44	-66.44	-63.14	-62.0	-1.14
Band 8	207	6985	160	6985	-7.35	-64.12	-63.62	-63.52	-62.0	-1.52
				7060	-7.35	-68.41	-67.41	-64.81	-62.0	-2.81

 Table 7-9. Contention Based Protocol – Detection Results – All Tx Cases

							CBP Dete	ection (1=	Detection	, Blank = N	lo Detecti	on)								
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)
	53	6215	20	6215	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6110	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 5	47	6185	160	6185	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6260	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	101	6455	20	6455	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6430	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 6	111	6505	160	6505	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6580	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	149	6695	20	6695	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6750	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 7	175	6825	160	6825	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	197	6935	20	6935	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6910	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 8	207	6985	160	6985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				7060	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100

Table 7-10. Contention Based Protocol – Incumbent Detection Trial Results

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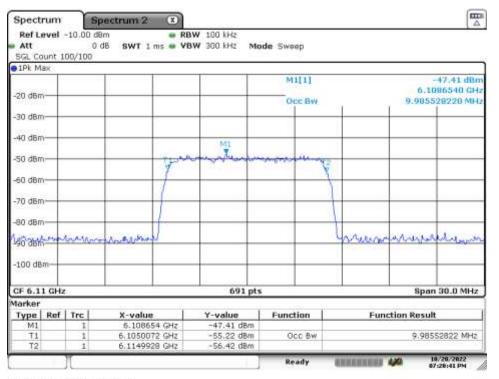


AWGN Plots

Spect				- 24						
Att		-10.00 di 0 00/100			W 100 kHz W 300 kHz M	ode Sweep				
e 1Pk M	lax									
-						M1[11			-49.68 dBm
-20 dBn	0			-		Occ	814			172140 GHz 528220 MHz
-30 dBr	n								-	-
-40 dBn	n				-				-	
-50 dBr	n			- July	and the second	warne	MINE			-
-60 dBn	n:			1						
-70 dBn	n			1					-	-
-80 dBn	n-			1			_	1	200	
-90 08	per.	Multonia	Maraham	4			_	Winthing	wohnsi	unetrop
-100 dB	sm-							_	-	-
CF 6.2		lz	I	-	691 pt	s		-	Spar	n 30.0 MHz
Marker		I Too I	X-value	1	Y-value	Functio	. 1		nction Resul	2
Type M1	Ref	Trc	6.21721		-49.68 dBm	Functio	m	Fu	nction Resul	t
T1		1	6,210007	2 GHz	-53.89 dBm	Occ	BW		9,985	52822 MHz
T2	_	1	6.219992	3 GHZ	-53.94 dBm					
8	- 1	Л				Reat	ly	GREEKER!		0/20/2022 6:32:04 PM

Date: 20.007.2022 18:32:03

Plot 7-313. AWGN Signal – UNII 5 – 20MHz



Date: 20.007.2022 19:20:41

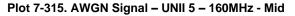
Plot 7-314. AWGN Signal – UNII 5 – 160MHz - Low

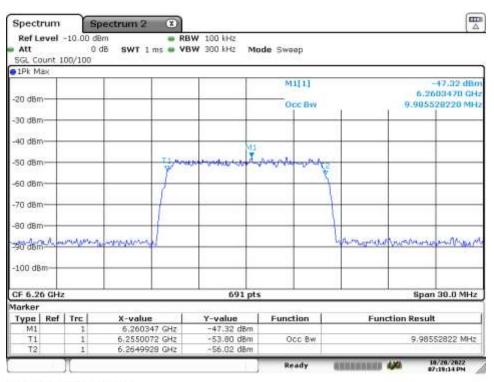
FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Spect	rum	S	pectrum 2	X									
Att		-10.00 d 0 00/100	Bm dB SWT 1 m		100 kHz 300 kHz	Mo	de Swa	ep					
e 1Pk M	lax												
-20 dBr	n							1[1] cc 8w			9.0	6.18	45.82 dBm 75620 GHz 28220 MHz
-30 dBr	n-		+ +			+		-	-		-	-	
-40 dBr	n					-	MI				-	-	
-50 dBr	n			Theren		and a	manth	menoug	4			-	
-60 dBr	n:+-			(+		- 10			-	-	
-70 dBr	n					+			1		-	-	
-80 dBr	n-					+		-	1		-	-	
lab del	grow	SSAM	emperand			-			4	rinn	unnu	MAN .	Mou
-100 dE	3m-					+					-	-	
CF 6.1		łz			69	1 pts					il ĝ	Span	30.0 MHz
Marker			10 CR		10 2	- 7	200			22			
Type M1	POPT	Trc	X-value 6.187562	GHz.	Y-value -45.82 d	Bm	Func	tion		Fu	nction R	esuit	
T1		1	6.1800507	GHz	-54.27 d	Bm	0	CC BW			9	9.9855	2822 MHz
T2		1	6.1900362	GHz	-55.12 d	Bm		1000				2000-0-0-	
8		1					Re	ady	40.0	REALES	4,40	10.	28/2822 19:52 PM

Date: 20.007.2022 19:19:52





Date: 20.007.2022 19:19:13

Plot 7-316. AWGN Signal – UNII 5 – 160MHz - High

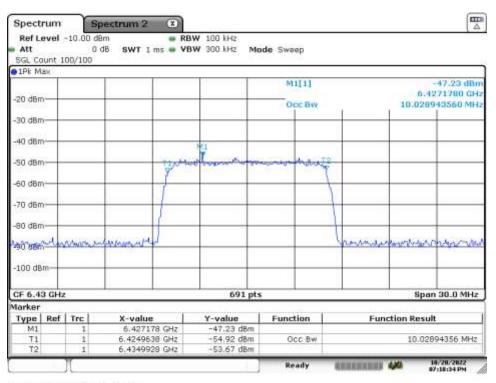
FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	N: Test Dates: EUT Type:		Dage 102 of 220
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Spect	rum	S	pectrum 2	X								
Att		-10.00 di 0 00/100	Brn dB SWT 1		W 100 kHz W 300 kHz	Mo	de Swe	ep				
1Pk M												
-20 dBr	n							1[1] cc 8w	1			-48,81 dBm (581260 GH) (528228 MH)
-30 dBr -40 dBr						F						
-50 dBr	× .			13-0	howward	thor	- and and a	Como T	2			
-60 dBr				1								
-80 dBr	n					-	_		1		W	
		minh	non tertus	I		+	_		(a)	Mahamery	allance	wwwww
-100 dE												
CF 6.4		lz	101 I		691	1 pts		-			Spe	in 30.0 MHz
Marker Type			X-value	1	Y-value	1	Func	tion		Fun	ction Resu	łt
M1 T1 T2		1 1	6.45812 6.450007 6.459992	2 GHz	-48.81 d -54.54 d -53.76 d	Bm	0	CC BW			9.98	552822 MHz
0		T					Re	ady	6.0	SERAERS	4,40	10/20/2022 06:41:40 PM

Date: 20.007.2022 18:41:40

Plot 7-317. AWGN Signal – UNII 6 – 20MHz



Date: 20.001.2022 19:18:34

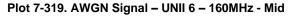
Plot 7-318. AWGN Signal – UNII 6 – 160MHz - Low

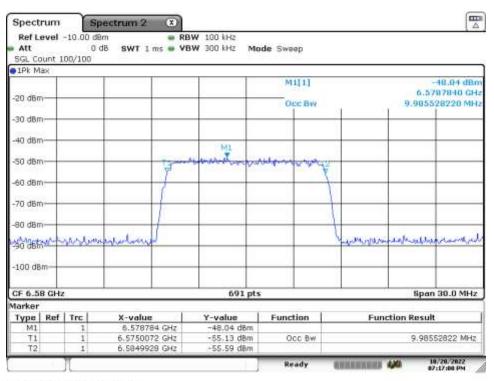
FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 102 of 220
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Spect	rum	S	pectrum 2	×								
Att		-10.00 d 0 00/100			W 100 kHz W 300 kHz	Mod	le Swa	ab				
• 1Pk M												
-20 dBr	n							L[1] C 8w			0.5	-47.62 dBm 091240 GHz 943560 MHz
-30 dBr	n				-	-	-		-			-
-40 dBr	n		_		- A.		_	M1				-
-50 dBr	n			Taren	and see see and	-	Ante	routed	2			-
-60 dBn	n:			1		_			1			-
-70 dBr	n			1		-	-		+			-
-80 dBr		10		1-		_	-		1			-
-96 36	par	where.	monum			-	_		i	America	mann	ample
-100 dB	3m								-			-
CF 6.5		łz			691	pts	-				Spa	n 30.0 MHz
Marker			8 12		2001 12		22.00	2 1		22 0		<i></i>
Type M1	Ref	Trc	X-value 6.50912		-47.62 dB	m	Funct	ion		Func	tion Resul	t
T1 T2	-	1	6.499963	18 GHz	-56.60 dB -53.43 dB	m	00	c Bw	_		10.028	94356 MHz
		M					Re	ady	1	TRABALES .	4,40	0/20/2022 7:17:39 PM

Date: 20.007.2022 19:17:39





Date: 20.007.2022 19:17:00

Plot 7-320. AWGN Signal – UNII 6 – 160MHz - High

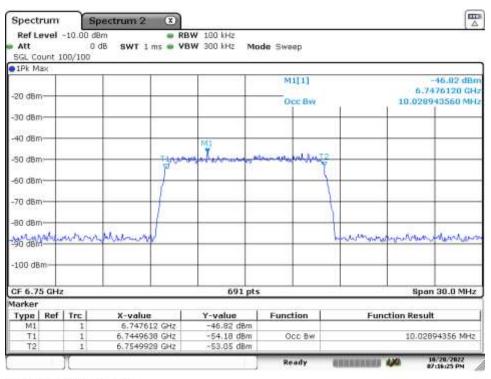
FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 101 of 220
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Spect	rum	S	pectrum 2	X								
Att		-10.00 d 0 00/100			W 100 kHz W 300 kHz	Mo	de Swa	ер				
e 1Pk M	tax											
-20 dBr						-		1[1] cc 8w				-47.35 dBm 6952600 GHz 8943560 MHz
-30 dBr	n					+-		-	-		-	-
-40 dBr	n					¢13	_					-
-50 dBr	n			Tylan	and	, In	Jur	way	2			-
-60 dBr	n:			1	-	+-	_		1	-		-
-70 dBr	n			+	-	+		-	+	-		+
-80 dBr	n-		-	1-		+-	_	-	4	-	-	-
-90 der	ming	intritu	mound	1		+)	how where	num	montain
-100 dE	3m-					+	_	-	-	-		-
CF 6.6	95 GH	łz	I		69	1 pts	_		-		Sp	an 30.0 MHz
Marker	and the second second		N 12		10.1	- 7	-			20		-
Type M1	Ref	Trc	X-value 6.6952		-47.35 c	Bm	Fund	tion	_	Fun	ction Res	unt
TI		1	6.689963		-56.58 0		Ö	CC BW			10.03	2894356 MHz
T2		1	6.699992	8 GHz	-54.39 0	Bm		- Secolution			10000	
8		T T					R	ady	1	ROADAERS.	4,90	10/20/2022 06:42:22 PM

Date: 20.007.2022 18:42:21

Plot 7-321. AWGN Signal – UNII 7 – 20MHz



Date: 20.007.2022 19:16:25

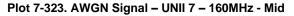
Plot 7-322. AWGN Signal – UNII 7 – 160MHz - Low

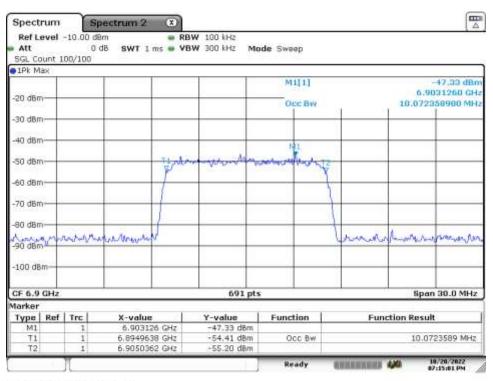
FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager				
Test Report S/N:	Test Dates:	EUT Type:	Dage 105 of 220				
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Spect	rum	S	pectrum 2	X							
Att		-10.00 d 0 00/100			₩ 100 kHz ₩ 300 kHz	Mod	de Swe	юр			
e 1Pk M	tax										
-20 dBr	n							1[1] cc 8w	21		-45.76 dBm 256950 GH 940568 MH
-30 dBr	n					+		-			+
-40 dBr	n -					MI	_	-	-	-	-
-50 dBr	n			Tanta	Angenet.	que de	Aniona	aning	2		-
-60 dBr	n:			1		+	_				-
-70 dBr	n		-	1	-	+	-	-	1		-
-80 dBr	n			1		+	_	-	1	-	
-90 dBr	put	alterna	unum			-			hanning	some	vounde
-100 dB	500-					+		-		-	-
CF 6.8		łz			69	1 pts	_			Spa	n 30.0 MHz
Marker			60 F2		1000 - 12 - 1-			<u>a a</u>		00127-022-02	
Type M1	Ref	Trc	X-value 6.825693	0.011	Y-value -45.76 d	Ben	Fund	tion	Fu	nction Resu	it
T1		1	6.8200073		-54.50 d		0	CC BW		10.02	894356 MHz
T2		1	6.8300363		-54.89 d		-			1000	
6		N.					Re	ady	GROADAER	4,40	10/20/2022 07:15:41 PM

Date: 20.007.2022 19:15:40





Date: 20.001.2022 19:15:01

Plot 7-324. AWGN Signal – UNII 7 – 160MHz - High

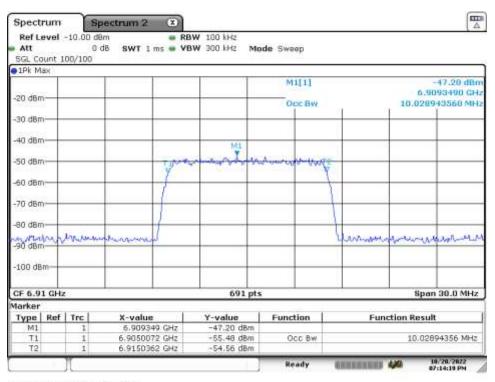
FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 106 of 220
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Spect	rum	S	pectrum 2	×								
Att		-10.00 d 0 .00/100			W 100 kHz W 300 kHz	Mo	de Swi	sep				
e 1Pk M	tax											
-20 dBr	n							1[1] cc 8w				-48.25 dBn 9365200 GH 2358900 MH
-30 dBr	n			-		+		-	-		-	
-40 dBr	n					+	M1				-	-
-50 dBr	n -			Jerry	-	-a	and the second	Water	3			-
-60 dBr	n:			1	-	+						-
-70 dBr	n			1	-	+	_	-	1		-	+
-80 dBr	n-		-	1-		+-		-	+		-	-
-90 dBr	and	humber	Marrian	/		⊢		-),	www.	interest	Mannah
-100 dE	301-				_	+			-		-	-
CF 6.9	35 GF	łz			69	1 pts					Sp	an 30.0 MHz
Marker			100 - 17 e							10		
Туре	Ref		X-value		Y-value	-	Fund	tion		Fun	ction Res	ult
M1 T1	-	1	6.9365		-48.25 d		-	ICC BW	_		10.0	0723589 MHz
T2		1	6.940036		-56.74 0			00.011			201	21 2 3 3 0 2 mille
8		T					R	eady	- 61	CORRARS.	4,40	10/20/2022 05:46:25 PM

Date: 20.007.2022 18:46:35

Plot 7-325. AWGN Signal – UNII 8 – 20MHz



Date: 20.001.2022 19:14:18

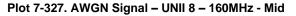
Plot 7-326. AWGN Signal - UNII 8 - 160MHz - Low

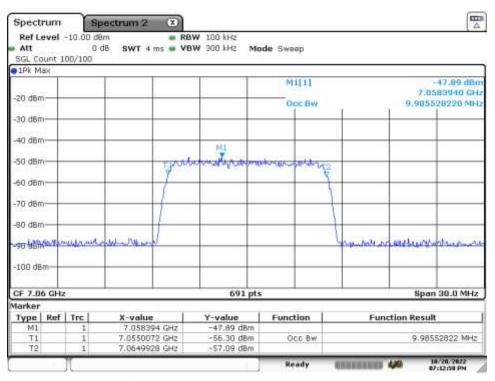
FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	est Report S/N: Test Dates: EUT Type:		Dage 107 of 220
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Spect	rum	S	pectrum 2	X									
Att		-10.00 d 0 00/100			W 100 kHz W 300 kHz	Mo	de Swe	ep					
• 1Pk M	tax												
-20 dBr	20							1[1] cc 8w	1			-47.68 .989124(28943560	1 GHz
-30 dBr -40 dBr						-		MI				-	_
-50 dBr				Your	and south and	-Angen	winner	populat	1			+	
-60 dBr -70 dBr				1									
-80 dBr			and the second			\vdash		-	t	In .	Andra J	hour	
		and the	mperanno			t							
-100 dE													
GF 6.9 Marker	-	12			691	l pts					8	an 30.0	MHZ
Туре М1	and the second	Trc	X-value 6.98912		Y-value -47.68 d	Rm	Func	tion		Fun	ction Re:	sult	
T1 T2		1	6.980007	2 GHz	-55.51 d -55.92 d	Bm	0	cc Bw			10.0	12894356	MHz
ç		N.					Re	ady	STAT.	ALL	4/0	10/20/28 07:13:37 P	12

Date: 20.007.2022 19:13:37





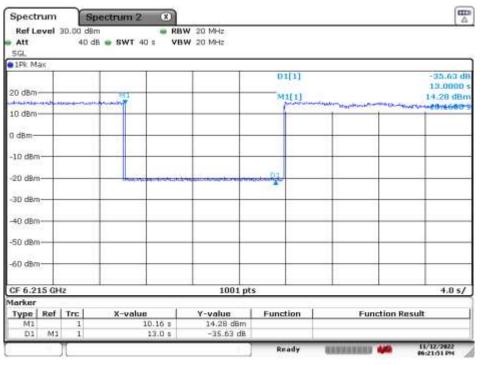
Date: 20.001.2022 19:12:58

Plot 7-328. AWGN Signal – UNII 8 – 160MHz - High

FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 220
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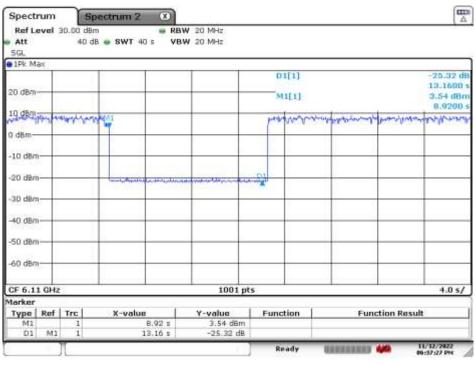


CBP Timing Plots



Date: 12.NOV.2022 18:21:51





Date: 12.NOV.2022 10:37:27

Plot 7-330. Contention Based Protocol Timing Plot - UNII 5 - 160MHz Ch47 - Low

FCC: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 220
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Spect	rum	s	pectrum 2	8					(m)
Ref Lo Att SGL	evel :	90.00 dB 40 c	m 18 \cdots SWT 40		W 20 MHz W 20 MHz				dest.
9 1Pk M	ах								
20 dBm			MI				1[1] 1[1]		-29.81 dB 14.6900 s 8.28 dBm 11.4000 s
10 dBm		-	inandr		+ +		1	-	
0 dBm-	-				-		1		
-10 dBm							-	1	
-20 dBm	1		-		-	the states	- N		
-3D dBri	-								
-40 dBm			-				-		
-S0 dBm			-				-		
-60 dBrr	+				+ +		-	-	
CF 6.10	85 GH	lz.			1001 ;	ots			4.0 s/
Marker	÷.	W 70		177			0.0		
Type	Ref	and the second second	X-value		Y-value		ction	Fun	ction Result
M1 D1	MI	1		11.4 s 4.68 s	8.28 dBm -29.81 dB				
2		N				R	eady	REALFORD	11/12/2022 06:33:44 PH

Date: 12.NOV.2022 18:33:44



Spect	rum	S	ectrum 2	(8)								E Contra
Ref L Att SGL	evel	30.00 dBr 40 d	n 8 🕳 SWT 40		V 20 MHz V 20 MHz							
B 1Pk M	ак											
20 dBm 10 dBm	2							1[1]				-26.89 dB 14.0800 s 5.08 dBm 11.0000 s
		- + topper	mannine						mine		Anistan	and a start and a start of the
0 dBm-	-	- 22-			+	-					-	-
-10 dBr	n					ST.	22.				-	-
-20 dBr	n			and talk	hertedide	, de	alida	Helicity			-	
-30 dBr	n	_	-		-	-		-	-		-	-
-40 dBr	n		-			-		-	-		_	-
-50 dBr	n					-		-	-+	-	-	_
-60 d8r	n		-		-	-			-	-	-	-
CF 6.2	6 GHz	6.C			100	1 pts	10		_			4.0 s/
Marker						- personal						
Type	Ref	Tre	X-value	1	Y-value	1	Func	tion		Fur	action R	esult
M1 D1	MI	1	3	11.0 s 4.08 s	5.08 dt -26.89							
		1					R	ady	10	REPORT OF T	440	11/12/2022 05:40:29 PM

Date: 12.NOV.2022 18:40:28

Plot 7-332. Contention Based Protocol Timing Plot - UNII 5 - 160MHz Ch47 - High

FCC: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 200 of 239
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