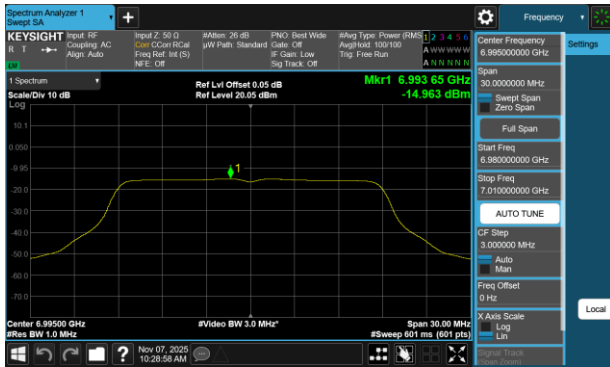
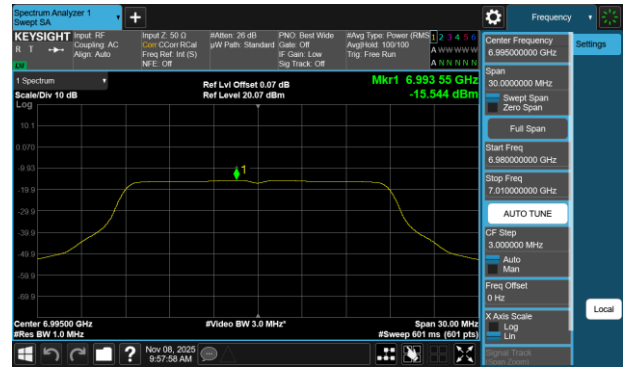
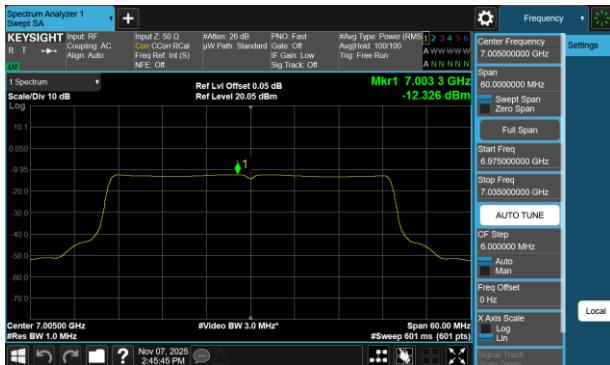




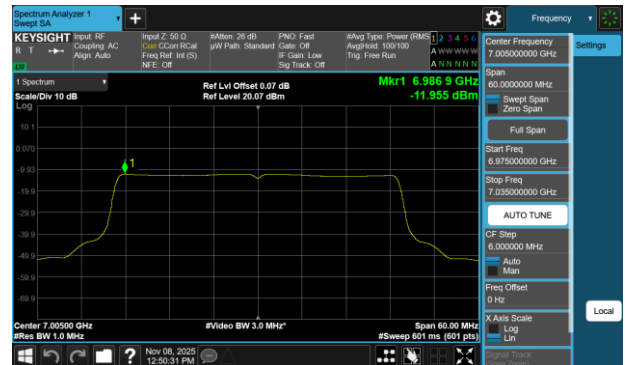
Plot 7-153 PSD SDM Diversity Antenna WF2a (20MHz BW 802.11a - Ch.209)



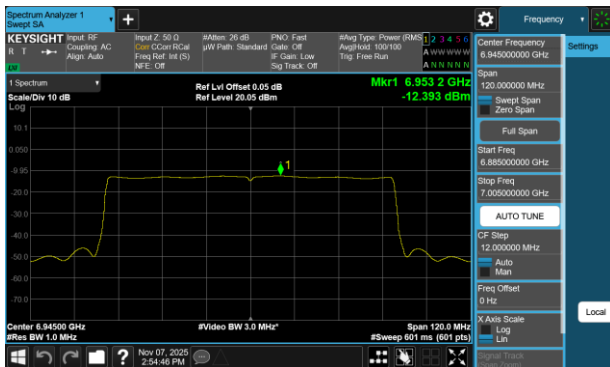
Plot 7-157 PSD SDM Diversity Antenna WF7b (20MHz BW 802.11a - Ch.209)



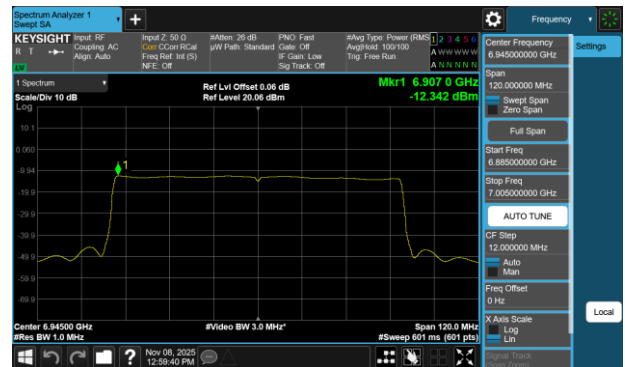
Plot 7-154 PSD SDM Diversity Antenna WF2a (40MHz BW 802.11b(SU) - Ch.211)



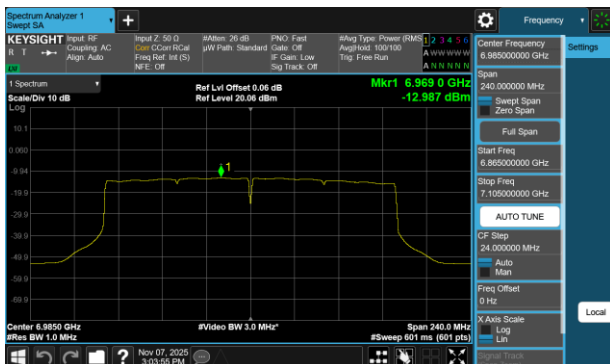
Plot 7-158 PSD SDM Diversity Antenna WF7b (40MHz BW 802.11b(SU) - Ch.211)



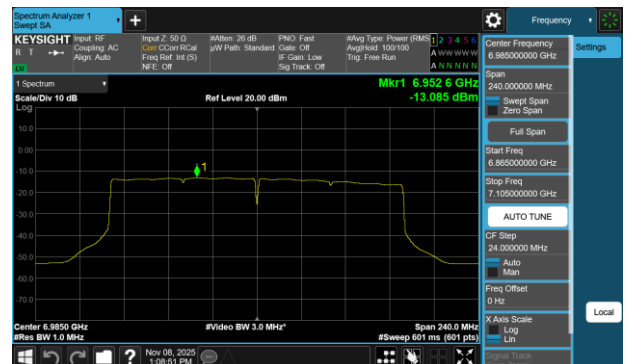
Plot 7-155 PSD SDM Diversity Antenna WF2a (80MHz BW 802.11b(SU) - Ch.199)



Plot 7-159 PSD SDM Diversity Antenna WF7b (80MHz BW 802.11b(SU) - Ch.199)



Plot 7-156 PSD SDM Diversity Antenna WF2a (160MHz BW 802.11b(SU) - Ch.207)



Plot 7-160 PSD SDM Diversity Antenna WF7b (160MHz BW 802.11b(SU) - Ch.207)

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Note:

Per ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 Section 14.5.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna WF7a and Antenna WF2a 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 Directional Gain Calculation:

For correlated signals, assuming the antenna gain is 1.2 dBi for Antenna WF7a and 0.8 dBi for Antenna WF2a.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{1.2/20} + 10^{0.8/20})^2 / 2] \text{ dBi} \\ &= 4.01 \text{ dBi}\end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 1.2 dBi for Antenna WF7a and 0.8 dBi for Antenna WF2a.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{1.2/10} + 10^{0.8/10} / 2] \text{ dBi} \\ &= 1.00 \text{ dBi}\end{aligned}$$

Sample SDM Calculation:

At 6115MHz in 802.11be (20MHz BW) mode, the average conducted power spectral density was measured to be -11.33 dBm for Antenna WF7a and -11.71 dBm for Antenna WF2a.

$$\text{Antenna WF7a} + \text{Antenna WF2a} = \text{CDD/SDM}$$

$$(-11.33 \text{ dBm} + -11.71 \text{ dBm}) = (0.074 \text{ mW} + 0.067 \text{ mW}) = 0.141 \text{ mW} = -8.50 \text{ dBm}$$

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

At 6115MHz in 802.11be (20MHz BW) mode, the average SDM power density was calculated to be -8.50 dBm with directional gain of 1.00 dBi.

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

$$-8.50 \text{ dBm} + 1.00 \text{ dBi} = -7.50 \text{ dBm}$$

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7.5 In-Band Emissions

§15.407(b)(7); RSS-248[4.6.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 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 C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Section 12.4.2.2
KDB 987594 D02 v03 – Section J

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 4.1.6.2 of ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024. (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 $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - 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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Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels (low, mid, and high) were investigated. Only the worst-case plots are reported.

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7.5.1 Antenna WF7a In-Band Emission Measurements – VLP

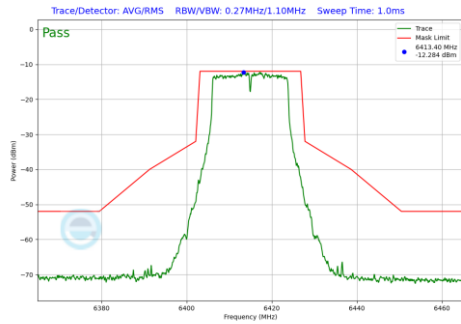
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Antenna WF7a In-Band Emission
Band 5	6115	33	a	6Mbps	Pass
	6175	61	a	6Mbps	Pass
	6415	93	a	6Mbps	Pass
	6115	33	be (20MHz)	MCS0	Pass
	6175	61	be (20MHz)	MCS3	Pass
	6415	93	be (20MHz)	MCS3	Pass
	6125	35	be (40MHz)	MCS5	Pass
	6165	59	be (40MHz)	MCS5	Pass
	6405	91	be (40MHz)	MCS0	Pass
	6145	39	be (80MHz)	MCS5	Pass
	6145	55	be (80MHz)	MCS5	Pass
	6385	87	be (80MHz)	MCS0	Pass
	6185	47	be (160MHz)	MCS5	Pass
	6345	79	be (160MHz)	MCS5	Pass
Band 6	6435	97	a	6Mbps	Pass
	6475	105	a	6Mbps	Pass
	6515	113	a	6Mbps	Pass
	6345	97	be (20MHz)	MCS3	Pass
	6475	105	be (20MHz)	MCS3	Pass
	6515	113	be (20MHz)	MCS3	Pass
	6445	99	be (40MHz)	MCS5	Pass
	6485	107	be (40MHz)	MCS5	Pass
	6525	115	be (40MHz)	MCS0	Pass
	6465	103	be (80MHz)	MCS0	Pass
Band 7	6505	111	be (160MHz)	MCS5	Pass
	6535	117	a	36Mbps	Pass
	6695	149	a	12Mbps	Pass
	6875	185	a	12Mbps	Pass
	6535	117	be (20MHz)	MCS0	Pass
	6695	149	be (20MHz)	MCS0	Pass
	6875	185	be (20MHz)	MCS5	Pass
	6565	123	be (40MHz)	MCS5	Pass
	6725	155	be (40MHz)	MCS0	Pass
	6885	179	be (40MHz)	MCS0	Pass
	6545	119	be (80MHz)	MCS0	Pass
	6705	151	be (80MHz)	MCS5	Pass
	6865	183	be (80MHz)	MCS5	Pass
	6665	143	be (160MHz)	MCS3	Pass
Band 8	6825	175	be (160MHz)	MCS0	Pass
	6895	189	a	6Mbps	Pass
	6995	209	a	6Mbps	Pass
	7115	233	a	36Mbps	Pass
	6895	189	be (20MHz)	MCS0	Pass
	6995	209	be (20MHz)	MCS3	Pass
	7115	233	be (20MHz)	MCS0	Pass
	6925	187	be (40MHz)	MCS0	Pass
	7005	211	be (40MHz)	MCS5	Pass
	7085	227	be (40MHz)	MCS5	Pass
	6945	199	be (80MHz)	MCS0	Pass
	7025	215	be (80MHz)	MCS0	Pass
	6985	207	be (160MHz)	MCS0	Pass

Table 7-35. In-Band Emission Measurements Antenna WF7a

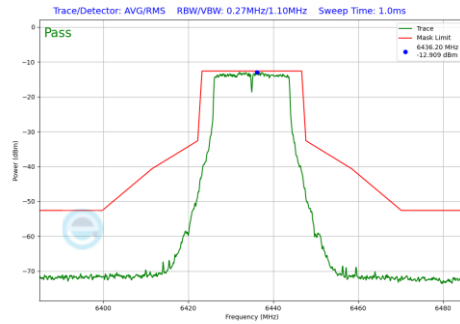
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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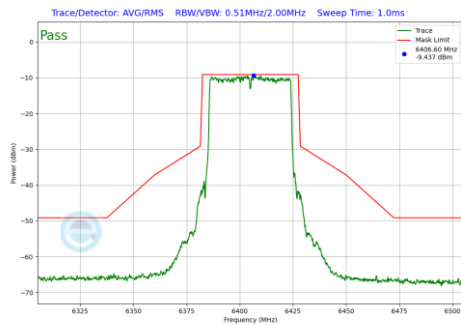
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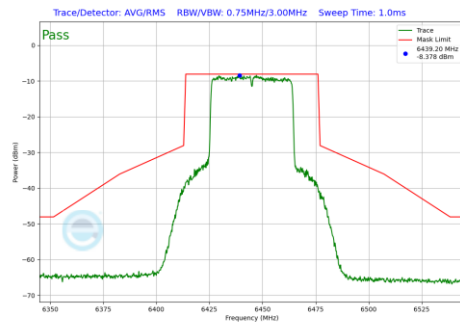
Plot 7-161 In-Band Emission Plot Antenna WF7a (20MHz BW 802.11a (UNII Band 5) - Ch.93)



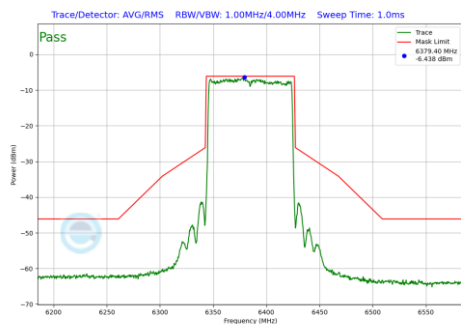
Plot 7-165 In-Band Emission Plot Antenna WF7a (20MHz BW 802.11a (UNII Band 6) - Ch.97)



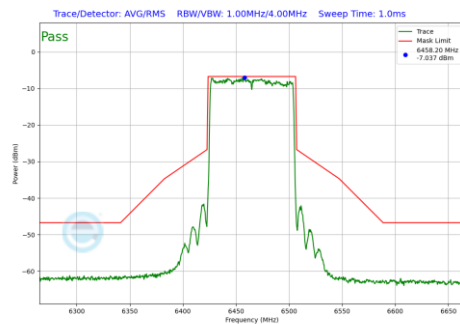
Plot 7-162 In-Band Emission Plot Antenna WF7a (40MHz BW 802.11be(SU) (UNII Band 5) - Ch.91)



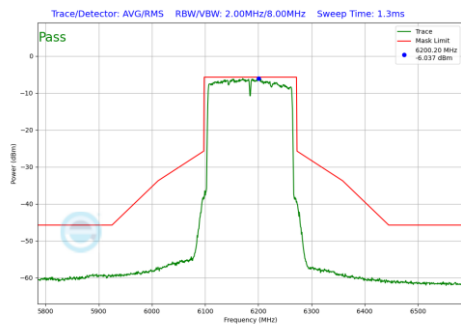
Plot 7-166 In-Band Emission Plot Antenna WF7a (40MHz BW 802.11be(SU) (UNII Band 6) - Ch.99)



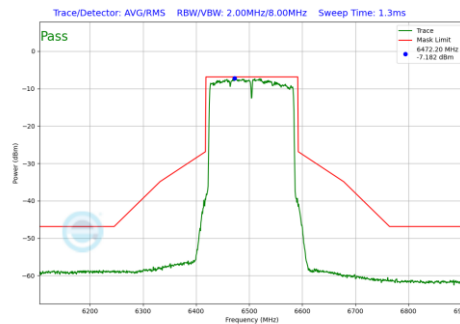
Plot 7-163 In-Band Emission Plot Antenna WF7a (80MHz BW 802.11be(SU) (UNII Band 5) - Ch.87)



Plot 7-167 In-Band Emission Plot Antenna WF7a (80MHz BW 802.11be(SU) (UNII Band 6) - Ch.103)

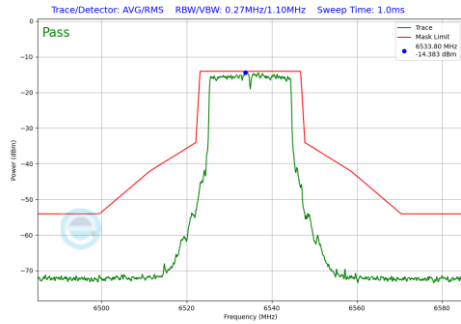


Plot 7-164 In-Band Emission Plot Antenna WF7a (160MHz BW 802.11be(SU) (UNII Band 5) - Ch.47)

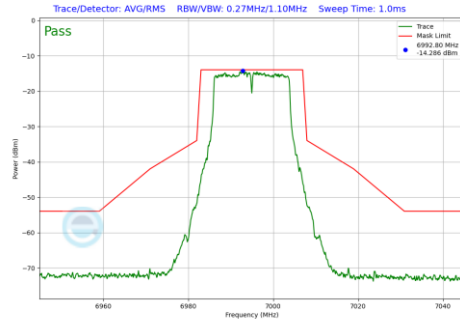


Plot 7-168 In-Band Emission Plot Antenna WF7a (160MHz BW 802.11be(SU) (UNII Band 6) - Ch.111)

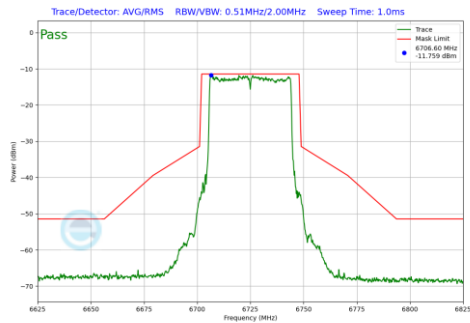
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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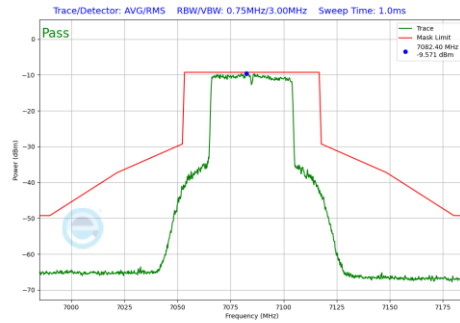
Plot 7-169 In-Band Emission Plot Antenna WF7a (20MHz BW 802.11be(SU) (UNII Band 7) - Ch.117)



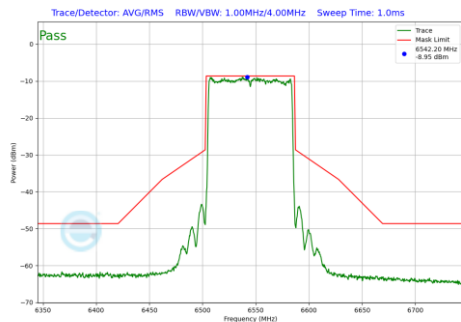
Plot 7-173 In-Band Emission Plot Antenna WF7a (20MHz BW 802.11a (UNII Band 8) - Ch.209)



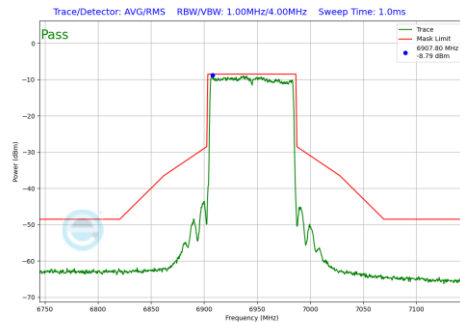
Plot 7-170 In-Band Emission Plot Antenna WF7a (40MHz BW 802.11be(SU) (UNII Band 7) - Ch.155)



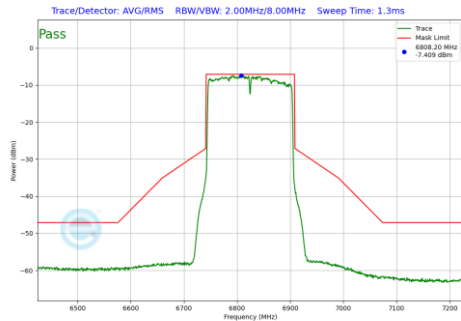
Plot 7-174 In-Band Emission Plot Antenna WF7a (40MHz BW 802.11be(SU) (UNII Band 8) - Ch.227)



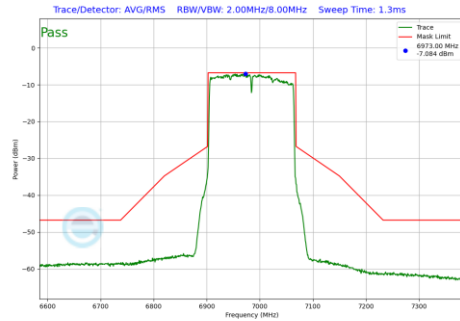
Plot 7-171 In-Band Emission Plot Antenna WF7a (80MHz BW 802.11be(SU) (UNII Band 7) - Ch.119)



Plot 7-175 In-Band Emission Plot Antenna WF7a (80MHz BW 802.11be(SU) (UNII Band 8) - Ch.199)



Plot 7-172 In-Band Emission Plot Antenna WF7a (160MHz BW 802.11be(SU) (UNII Band 7) - Ch.175)



Plot 7-176 In-Band Emission Plot Antenna WF7a (160MHz BW 802.11be(SU) (UNII Band 8) - Ch.207)

FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.5.2 Antenna WF2a In-Band Emission Measurements – VLP

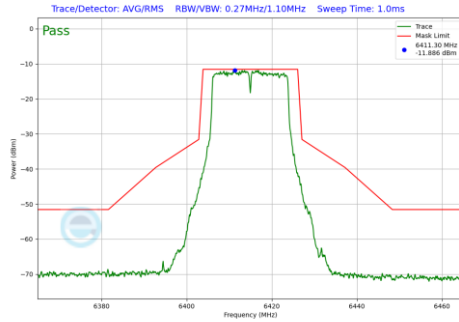
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Antenna WF2a In-Band Emission
Band 5	6115	33	a	36Mbps	Pass
	6175	61	a	6Mbps	Pass
	6415	93	a	12Mbps	Pass
	6115	33	be (20MHz)	MCS5	Pass
	6175	61	be (20MHz)	MCS0	Pass
	6415	93	be (20MHz)	MCS5	Pass
	6125	35	be (40MHz)	MCS0	Pass
	6165	59	be (40MHz)	MCS3	Pass
	6405	91	be (40MHz)	MCS0	Pass
	6145	39	be (80MHz)	MCS5	Pass
	6145	55	be (80MHz)	MCS0	Pass
	6385	87	be (80MHz)	MCS5	Pass
	6185	47	be (160MHz)	MCS5	Pass
	6345	79	be (160MHz)	MCS3	Pass
Band 6	6435	97	a	36Mbps	Pass
	6475	105	a	6Mbps	Pass
	6515	113	a	6Mbps	Pass
	6345	97	be (20MHz)	MCS0	Pass
	6475	105	be (20MHz)	MCS0	Pass
	6515	113	be (20MHz)	MCS0	Pass
	6445	99	be (40MHz)	MCS5	Pass
	6485	107	be (40MHz)	MCS0	Pass
	6525	115	be (40MHz)	MCS5	Pass
	6465	103	be (80MHz)	MCS0	Pass
Band 7	6505	111	be (160MHz)	MCS0	Pass
	6535	117	a	6Mbps	Pass
	6695	149	a	12Mbps	Pass
	6875	185	a	12Mbps	Pass
	6535	117	be (20MHz)	MCS5	Pass
	6695	149	be (20MHz)	MCS5	Pass
	6875	185	be (20MHz)	MCS0	Pass
	6565	123	be (40MHz)	MCS3	Pass
	6725	155	be (40MHz)	MCS5	Pass
	6885	179	be (40MHz)	MCS3	Pass
	6545	119	be (80MHz)	MCS5	Pass
	6705	151	be (80MHz)	MCS0	Pass
Band 8	6865	183	be (80MHz)	MCS0	Pass
	6665	143	be (160MHz)	MCS0	Pass
	6825	175	be (160MHz)	MCS0	Pass
	6895	189	a	12Mbps	Pass
	6995	209	a	12Mbps	Pass
	7115	233	a	36Mbps	Pass
	6895	189	be (20MHz)	MCS0	Pass
	6995	209	be (20MHz)	MCS5	Pass
	7115	233	be (20MHz)	MCS0	Pass
	6925	187	be (40MHz)	MCS3	Pass
	7005	211	be (40MHz)	MCS5	Pass
	7085	227	be (40MHz)	MCS0	Pass
	6945	199	be (80MHz)	MCS0	Pass
	7025	215	be (80MHz)	MCS0	Pass
	6985	207	be (160MHz)	MCS0	Pass

Table 7-36. In-Band Emission Measurements Antenna WF2a

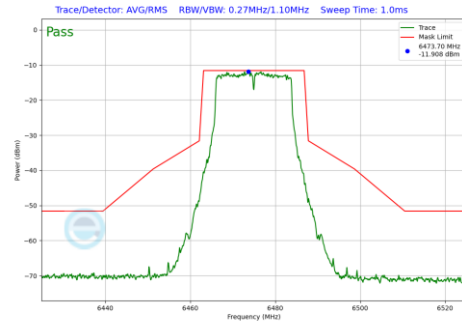
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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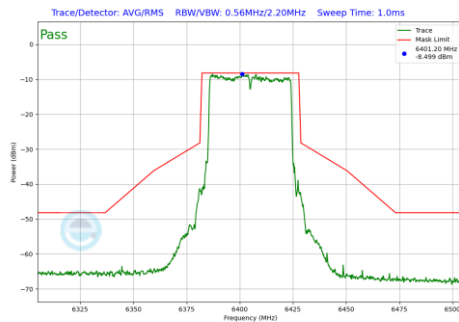
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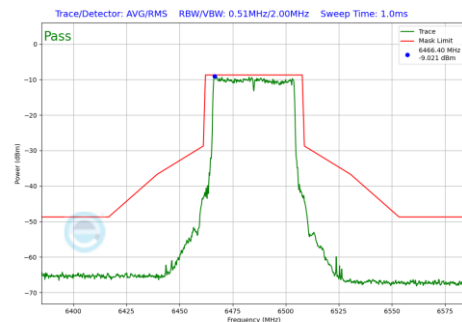
Plot 7-177 In-Band Emission Plot Antenna WF2a (20MHz BW 802.11a (UNII Band 5) - Ch.93)



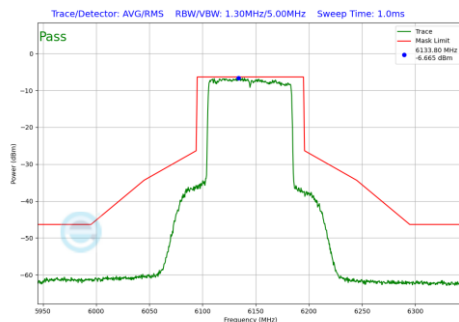
Plot 7-181 In-Band Emission Plot Antenna WF2a (20MHz BW 802.11a (UNII Band 6) - Ch.105)



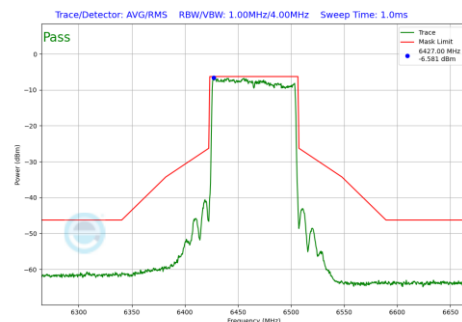
Plot 7-178 In-Band Emission Plot Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 5) - Ch.91)



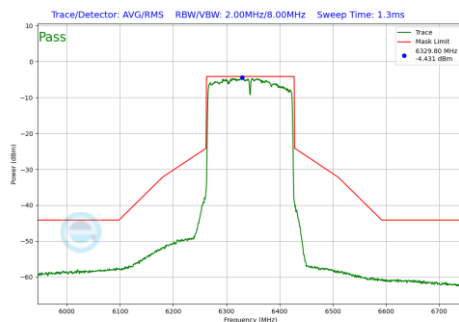
Plot 7-182 In-Band Emission Plot Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 6) - Ch.107)



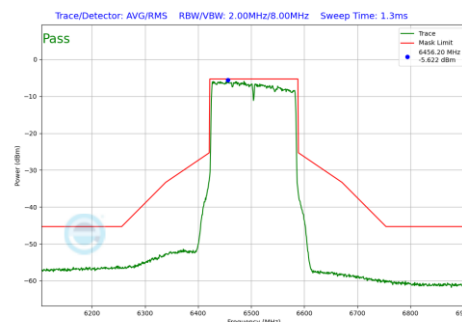
Plot 7-179 In-Band Emission Plot Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 5) - Ch.39)



Plot 7-183 In-Band Emission Plot Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 6) - Ch.103)

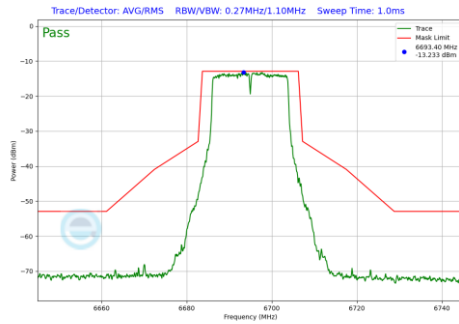


Plot 7-180 In-Band Emission Plot Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 5) - Ch.79)

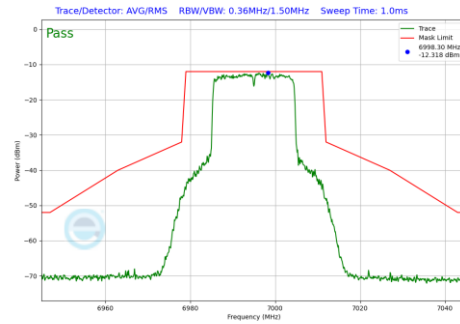


Plot 7-184 In-Band Emission Plot Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 6) - Ch.111)

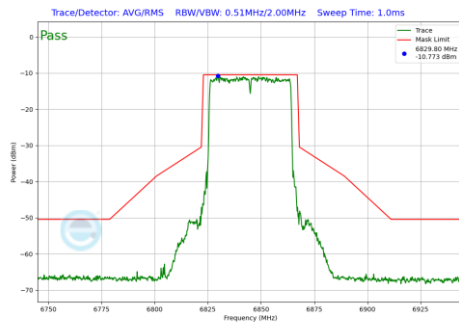
FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 77 of 197	



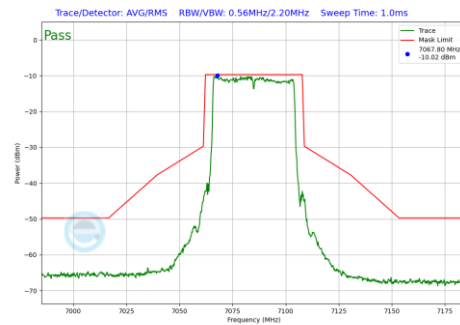
Plot 7-185 In-Band Emission Plot Antenna WF2a (20MHz BW 802.11a (UNII Band 7) - Ch.149)



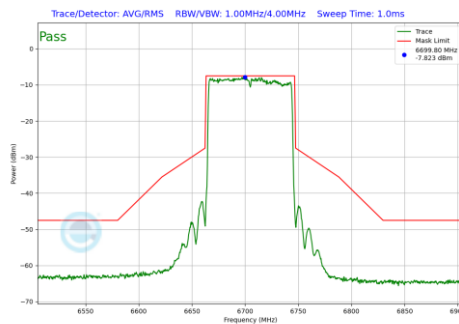
Plot 7-189 In-Band Emission Plot Antenna WF2a (20MHz BW 802.11be(SU) (UNII Band 8) - Ch.209)



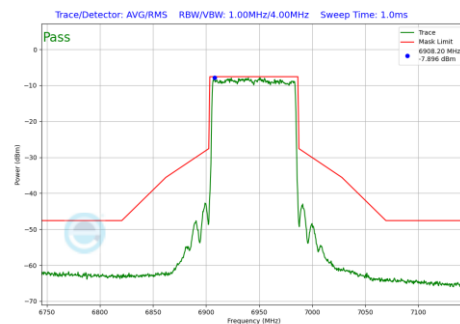
Plot 7-186 In-Band Emission Plot Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 7) - Ch.179)



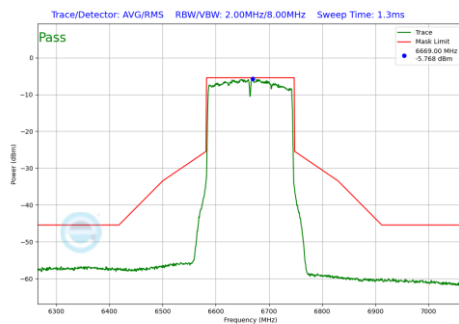
Plot 7-190 In-Band Emission Plot Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 8) - Ch.227)



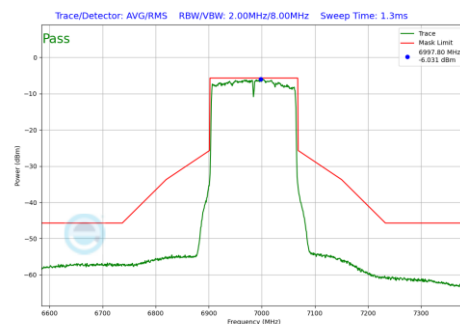
Plot 7-187 In-Band Emission Plot Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 7) - Ch.151)



Plot 7-191 In-Band Emission Plot Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 8) - Ch.199)



Plot 7-188 In-Band Emission Plot Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 7) - Ch.143)



Plot 7-192 In-Band Emission Plot Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 8) - Ch.207)

FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 78 of 197	

7.5.3 Antenna WF7b In-Band Emission Measurements – VLP

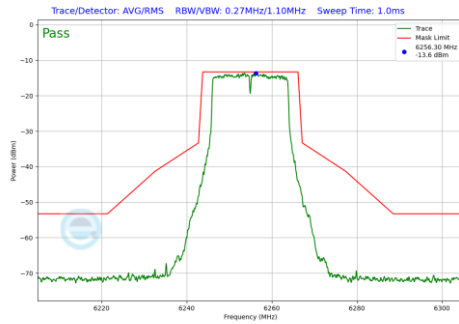
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Antenna WF7b In-Band Emission
Band 5	6115	33	a	6Mbps	Pass
	6255	61	a	12Mbps	Pass
	6415	93	a	6Mbps	Pass
	6115	33	be (20MHz)	MCS3	Pass
	6255	61	be (20MHz)	MCS0	Pass
	6415	93	be (20MHz)	MCS3	Pass
	6125	35	be (40MHz)	MCS5	Pass
	6245	59	be (40MHz)	MCS5	Pass
	6405	91	be (40MHz)	MCS3	Pass
	6145	39	be (80MHz)	MCS5	Pass
	6225	55	be (80MHz)	MCS5	Pass
	6385	87	be (80MHz)	MCS0	Pass
	6185	47	be (160MHz)	MCS5	Pass
	6345	79	be (160MHz)	MCS3	Pass
Band 6	6435	97	a	6Mbps	Pass
	6475	105	a	6Mbps	Pass
	6515	113	a	36Mbps	Pass
	6435	97	be (20MHz)	MCS3	Pass
	6475	105	be (20MHz)	MCS3	Pass
	6515	113	be (20MHz)	MCS3	Pass
	6445	99	be (40MHz)	MCS0	Pass
	6485	107	be (40MHz)	MCS5	Pass
	6525	115	be (40MHz)	MCS5	Pass
	6465	103	be (80MHz)	MCS0	Pass
Band 7	6505	111	be (160MHz)	MCS5	Pass
	6535	117	a	6Mbps	Pass
	6695	149	a	6Mbps	Pass
	6875	185	a	12Mbps	Pass
	6535	117	be (20MHz)	MCS3	Pass
	6695	149	be (20MHz)	MCS3	Pass
	6875	185	be (20MHz)	MCS0	Pass
	6565	123	be (40MHz)	MCS5	Pass
	6725	155	be (40MHz)	MCS3	Pass
	6845	179	be (40MHz)	MCS5	Pass
	6545	119	be (80MHz)	MCS5	Pass
	6705	151	be (80MHz)	MCS5	Pass
Band 8	6865	183	be (80MHz)	MCS5	Pass
	6665	143	be (160MHz)	MCS5	Pass
	6825	175	be (160MHz)	MCS5	Pass
	6895	189	a	6Mbps	Pass
	6995	209	a	12Mbps	Pass
	7115	233	a	6Mbps	Pass
	6895	189	be (20MHz)	MCS3	Pass
	6995	209	be (20MHz)	MCS3	Pass
	7115	233	be (20MHz)	MCS0	Pass
	6885	187	be (40MHz)	MCS5	Pass
	7005	211	be (40MHz)	MCS5	Pass
	7085	227	be (40MHz)	MCS5	Pass
	6945	199	be (80MHz)	MCS5	Pass
	7025	215	be (80MHz)	MCS0	Pass
	6985	207	be (160MHz)	MCS0	Pass

Table 7-37. In-Band Emission Measurements Antenna WF7b

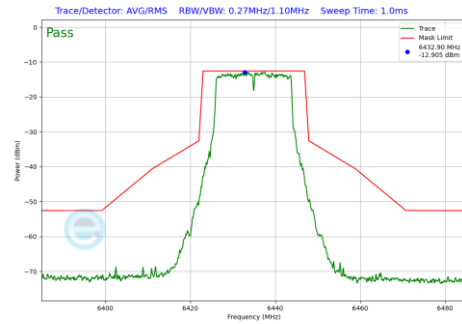
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 79 of 197

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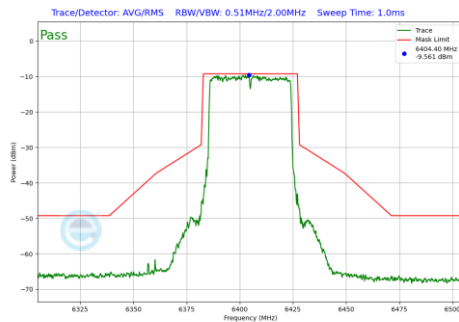
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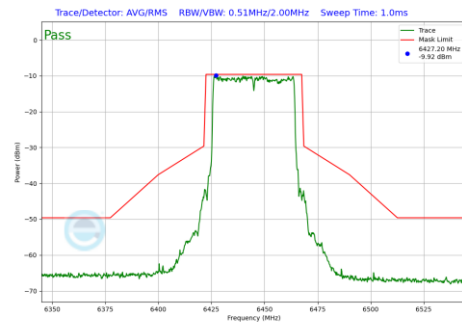
Plot 7-193 In-Band Emission Plot Antenna WF7b (20MHz BW 802.11a (UNII Band 5) - Ch.61)



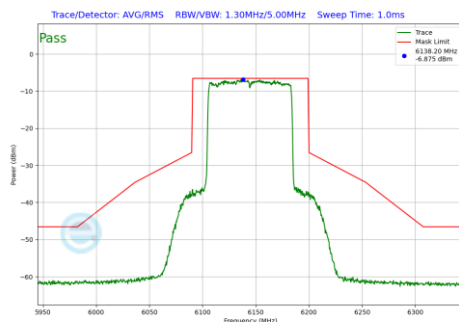
Plot 7-197 In-Band Emission Plot Antenna WF7b (20MHz BW 802.11a (UNII Band 6) - Ch.97)



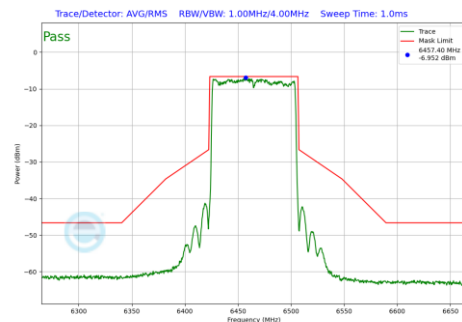
Plot 7-194 In-Band Emission Plot Antenna WF7b (40MHz BW 802.11be(SU) (UNII Band 5) - Ch.91)



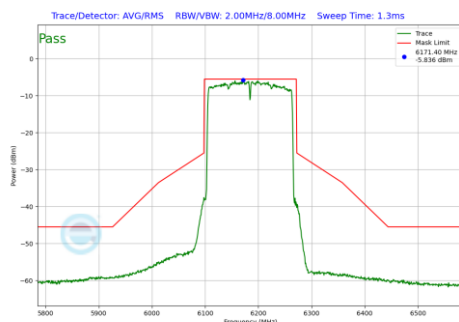
Plot 7-198 In-Band Emission Plot Antenna WF7b (40MHz BW 802.11be(SU) (UNII Band 6) - Ch.99)



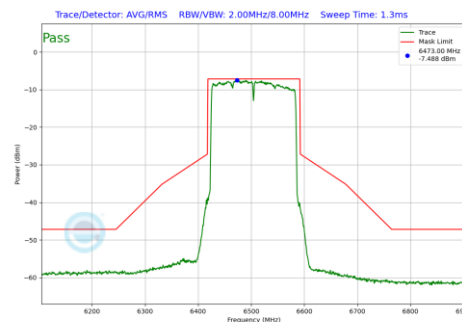
Plot 7-195 In-Band Emission Plot Antenna WF7b (80MHz BW 802.11be(SU) (UNII Band 5) - Ch.39)



Plot 7-199 In-Band Emission Plot Antenna WF7b (80MHz BW 802.11be(SU) (UNII Band 6) - Ch.103)

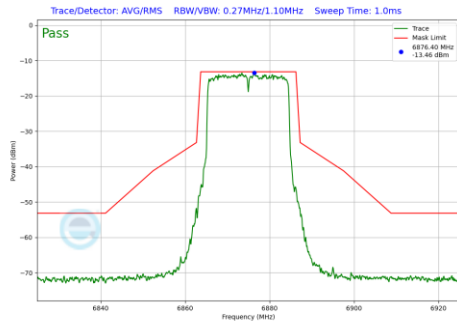


Plot 7-196 In-Band Emission Plot Antenna WF7b (160MHz BW 802.11be(SU) (UNII Band 5) - Ch.47)

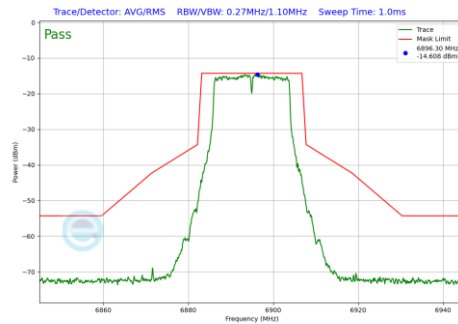


Plot 7-200 In-Band Emission Plot Antenna WF7b (160MHz BW 802.11be(SU) (UNII Band 6) - Ch.111)

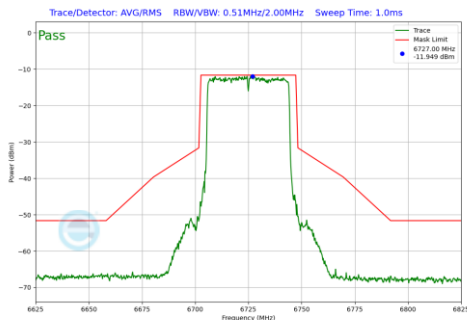
FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 80 of 197	



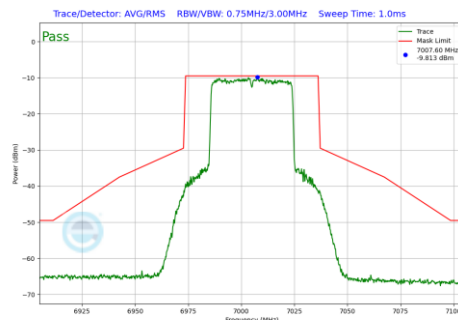
Plot 7-201 In-Band Emission Plot Antenna WF7b (20MHz BW 802.11be(SU) (UNII Band 7) - Ch.185)



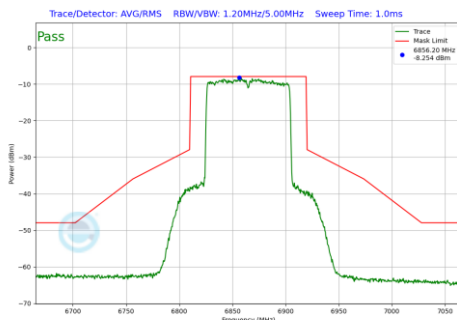
Plot 7-205 In-Band Emission Plot Antenna WF7b (20MHz BW 802.11a (UNII Band 8) - Ch.189)



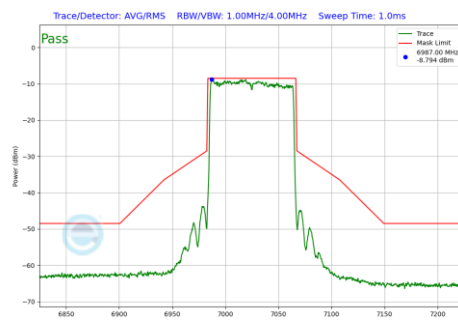
Plot 7-202 In-Band Emission Plot Antenna WF7b (40MHz BW 802.11be(SU) (UNII Band 7) - Ch.155)



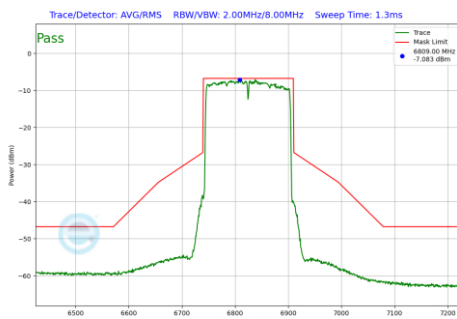
Plot 7-206 In-Band Emission Plot Antenna WF7b (40MHz BW 802.11be(SU) (UNII Band 8) - Ch.211)



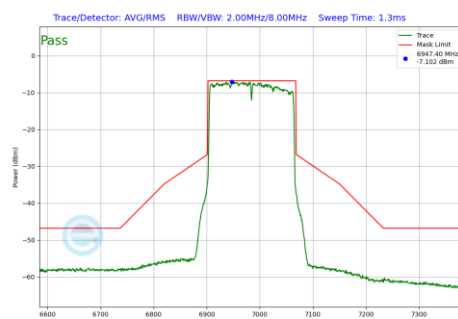
Plot 7-203 In-Band Emission Plot Antenna WF7b (80MHz BW 802.11be(SU) (UNII Band 7) - Ch.183)



Plot 7-207 In-Band Emission Plot Antenna WF7b (80MHz BW 802.11be(SU) (UNII Band 8) - Ch.215)



Plot 7-204 In-Band Emission Plot Antenna WF7b (160MHz BW 802.11be(SU) (UNII Band 7) - Ch.175)



Plot 7-208 In-Band Emission Plot Antenna WF7b (160MHz BW 802.11be(SU) (UNII Band 8) - Ch.207)

FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 81 of 197	

7.5.4 CDD/SDM Primary In-Band Emission Measurements – VLP

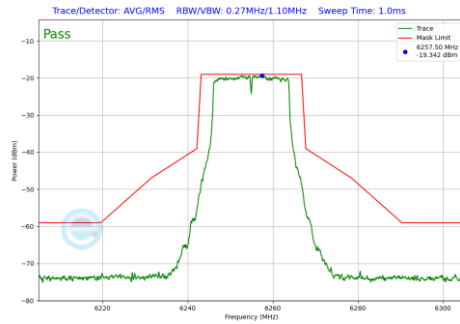
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate	Antenna WF7a In-Band Emission	Antenna WF2a In-Band Emission
Band 5	6115	33	a	CDD	36Mbps	Pass	Pass
	6255	61	a	CDD	6Mbps	Pass	Pass
	6415	93	a	CDD	6Mbps	Pass	Pass
	6115	33	be (20MHz)	SDM	MCS0	Pass	Pass
	6255	61	be (20MHz)	SDM	MCS0	Pass	Pass
	6415	93	be (20MHz)	SDM	MCS3	Pass	Pass
	6125	35	be (40MHz)	SDM	MCS5	Pass	Pass
	6245	59	be (40MHz)	SDM	MCS5	Pass	Pass
	6405	91	be (40MHz)	SDM	MCS0	Pass	Pass
	6145	39	be (80MHz)	SDM	MCS5	Pass	Pass
	6225	55	be (80MHz)	SDM	MCS5	Pass	Pass
	6385	87	be (80MHz)	SDM	MCS0	Pass	Pass
	6185	47	be (160MHz)	SDM	MCS0	Pass	Pass
Band 6	6345	79	be (160MHz)	SDM	MCS5	Pass	Pass
	6435	97	a	CDD	6Mbps	Pass	Pass
	6475	105	a	CDD	6Mbps	Pass	Pass
	6515	113	a	CDD	12Mbps	Pass	Pass
	6435	97	be (20MHz)	SDM	MCS0	Pass	Pass
	6475	105	be (20MHz)	SDM	MCS5	Pass	Pass
	6515	113	be (20MHz)	SDM	MCS0	Pass	Pass
	6445	99	be (40MHz)	SDM	MCS0	Pass	Pass
	6485	107	be (40MHz)	SDM	MCS0	Pass	Pass
	6525	115	be (40MHz)	SDM	MCS0	Pass	Pass
Band 7	6465	103	be (80MHz)	SDM	MCS0	Pass	Pass
	6505	111	be (160MHz)	SDM	MCS3	Pass	Pass
	6535	117	a	CDD	6Mbps	Pass	Pass
	6695	149	a	CDD	12Mbps	Pass	Pass
	6875	185	a	CDD	36Mbps	Pass	Pass
	6535	117	be (20MHz)	SDM	MCS0	Pass	Pass
	6695	149	be (20MHz)	SDM	MCS0	Pass	Pass
	6875	185	be (20MHz)	SDM	MCS0	Pass	Pass
	6565	123	be (40MHz)	SDM	MCS5	Pass	Pass
	6725	155	be (40MHz)	SDM	MCS3	Pass	Pass
	6845	179	be (40MHz)	SDM	MCS0	Pass	Pass
	6545	119	be (80MHz)	SDM	MCS5	Pass	Pass
	6705	151	be (80MHz)	SDM	MCS5	Pass	Pass
Band 8	6865	183	be (80MHz)	SDM	MCS0	Pass	Pass
	6665	143	be (160MHz)	SDM	MCS0	Pass	Pass
	6825	175	be (160MHz)	SDM	MCS0	Pass	Pass
	6895	189	a	CDD	12Mbps	Pass	Pass
	6995	209	a	CDD	6Mbps	Pass	Pass
	7115	233	a	CDD	36Mbps	Pass	Pass
	6895	189	be (20MHz)	SDM	MCS0	Pass	Pass
	6995	209	be (20MHz)	SDM	MCS0	Pass	Pass
	7115	233	be (20MHz)	SDM	MCS5	Pass	Pass
	6885	187	be (40MHz)	SDM	MCS0	Pass	Pass
	7005	211	be (40MHz)	SDM	MCS5	Pass	Pass
	7085	227	be (40MHz)	SDM	MCS5	Pass	Pass
	6945	199	be (80MHz)	SDM	MCS5	Pass	Pass
	7025	215	be (80MHz)	SDM	MCS0	Pass	Pass
	6985	207	be (160MHz)	SDM	MCS3	Pass	Pass

Table 7-38. In-Band Emission Measurements CDD/SDM Primary

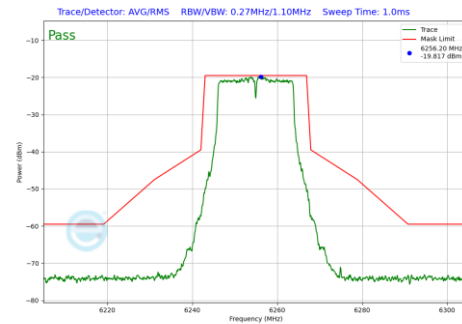
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 82 of 197

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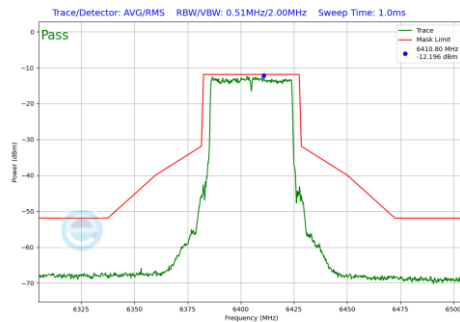
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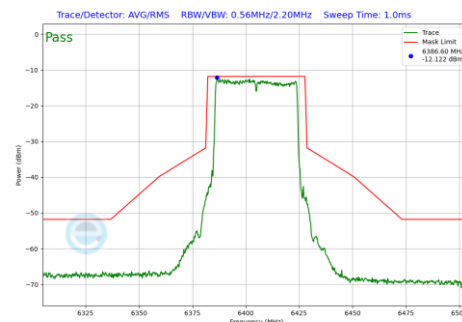
Plot 7-209 In-Band Emission Plot CDD Primary Antenna WF7a (20MHz BW 802.11a (UNII Band 5) - Ch.61)



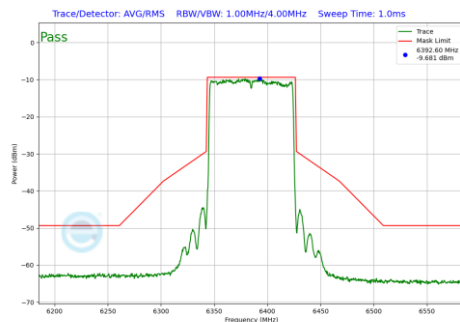
Plot 7-213 In-Band Emission Plot CDD Primary Antenna WF2a (20MHz BW 802.11a (UNII Band 5) - Ch.61)



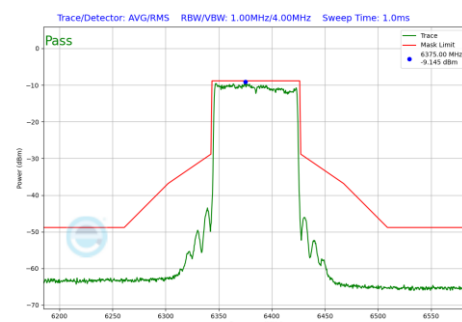
Plot 7-210 In-Band Emission Plot SDM Primary Antenna WF7a (40MHz BW 802.11be(SU) (UNII Band 5) - Ch.91)



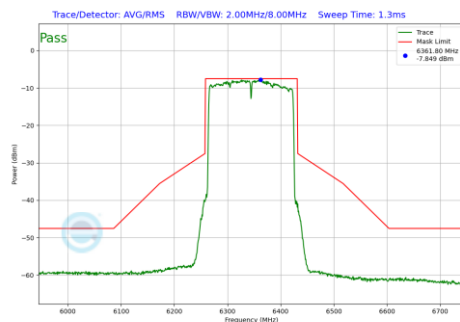
Plot 7-214 In-Band Emission Plot SDM Primary Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 5) - Ch.91)



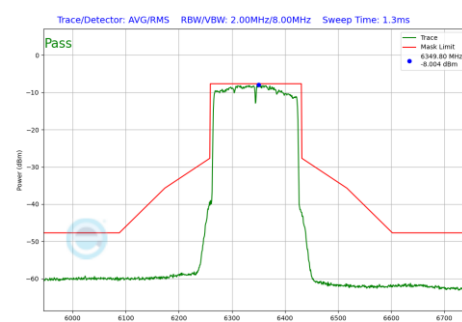
Plot 7-211 In-Band Emission Plot SDM Primary Antenna WF7a (80MHz BW 802.11be(SU) (UNII Band 5) - Ch.87)



Plot 7-215 In-Band Emission Plot SDM Primary Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 5) - Ch.87)

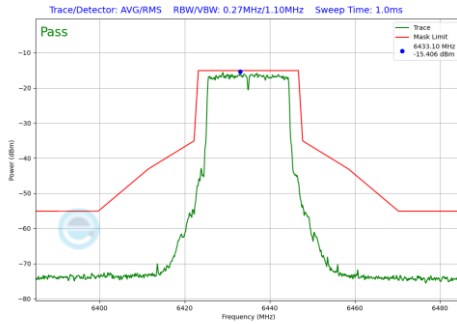


Plot 7-212 In-Band Emission Plot SDM Primary Antenna WF7a (160MHz BW 802.11be(SU) (UNII Band 5) - Ch.79)

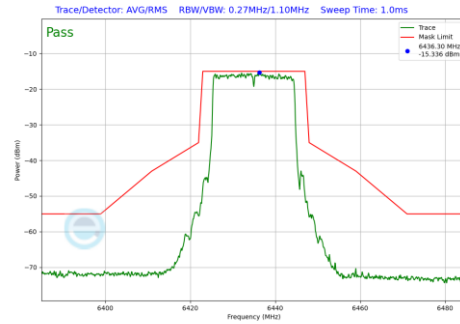


Plot 7-216 In-Band Emission Plot SDM Primary Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 5) - Ch.79)

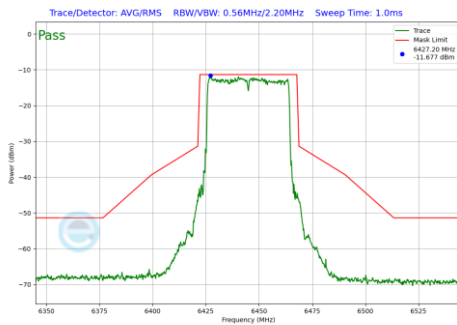
FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device		Page 83 of 197



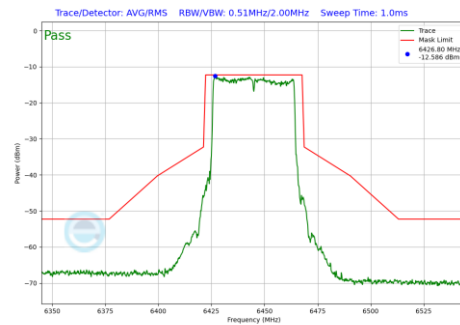
Plot 7-217 In-Band Emission Plot SDM Primary Antenna WF7a (20MHz BW 802.11be(SU) (UNII Band 6) - Ch.97)



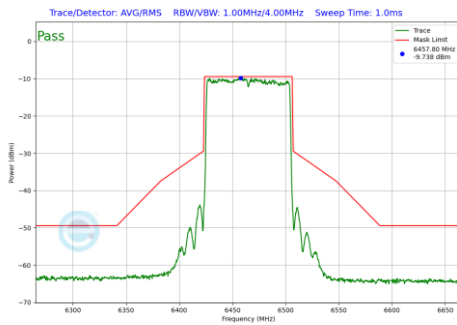
Plot 7-221 In-Band Emission Plot SDM Primary Antenna WF2a (20MHz BW 802.11be(SU) (UNII Band 6) - Ch.97)



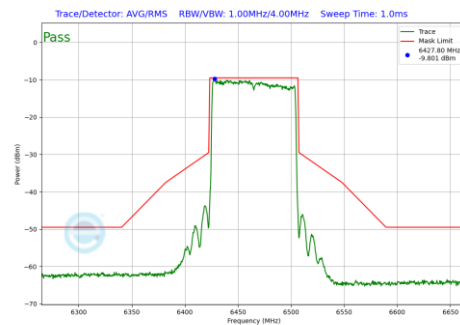
Plot 7-218 In-Band Emission Plot SDM Primary Antenna WF7a (40MHz BW 802.11be(SU) (UNII Band 6) - Ch.99)



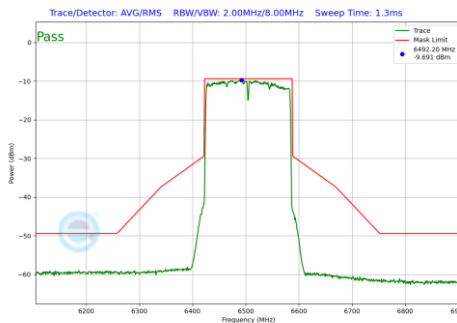
Plot 7-222 In-Band Emission Plot SDM Primary Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 6) - Ch.99)



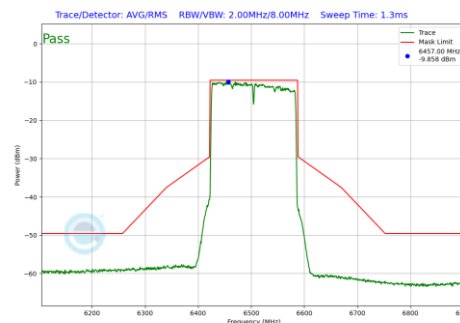
Plot 7-219 In-Band Emission Plot SDM Primary Antenna WF7a (80MHz BW 802.11be(SU) (UNII Band 6) - Ch.103)



Plot 7-223 In-Band Emission Plot SDM Primary Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 6) - Ch.103)

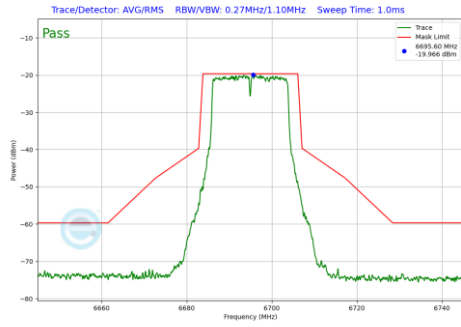


Plot 7-220 In-Band Emission Plot SDM Primary Antenna WF7a (160MHz BW 802.11be(SU) (UNII Band 6) - Ch.111)

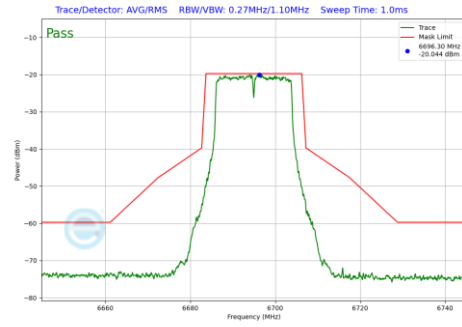


Plot 7-224 In-Band Emission Plot SDM Primary Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 6) - Ch.111)

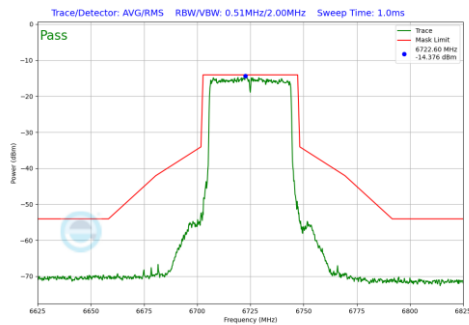
FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device		Page 84 of 197



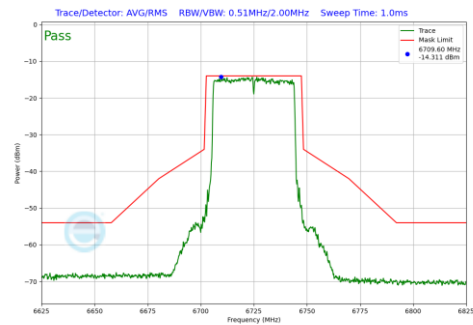
Plot 7-225 In-Band Emission Plot CDD Primary Antenna WF7a (20MHz BW 802.11a (UNII Band 7) - Ch.149)



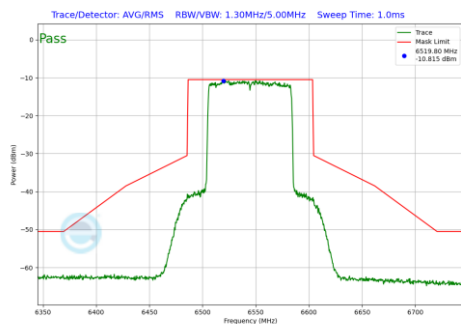
Plot 7-229 In-Band Emission Plot CDD Primary Antenna WF2a (20MHz BW 802.11a (UNII Band 7) - Ch.149)



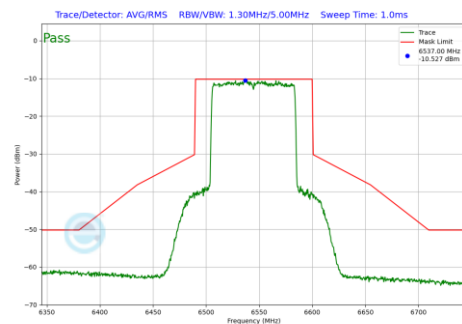
Plot 7-226 In-Band Emission Plot SDM Primary Antenna WF7a (40MHz BW 802.11be(SU) (UNII Band 7) - Ch.155)



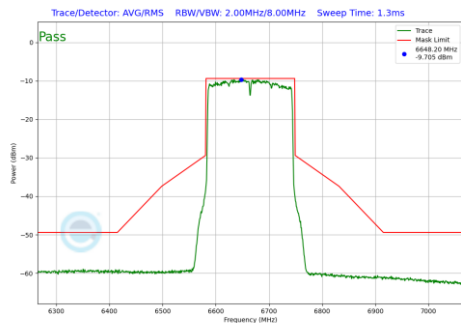
Plot 7-230 In-Band Emission Plot SDM Primary Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 7) - Ch.155)



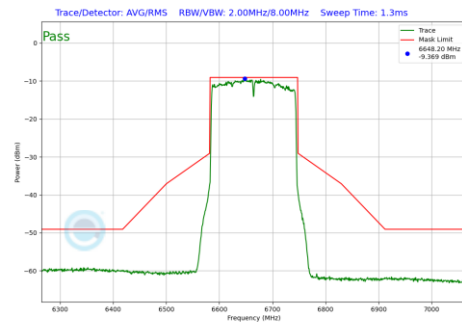
Plot 7-227 In-Band Emission Plot SDM Primary Antenna WF7a (80MHz BW 802.11be(SU) (UNII Band 7) - Ch.119)



Plot 7-231 In-Band Emission Plot SDM Primary Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 7) - Ch.119)

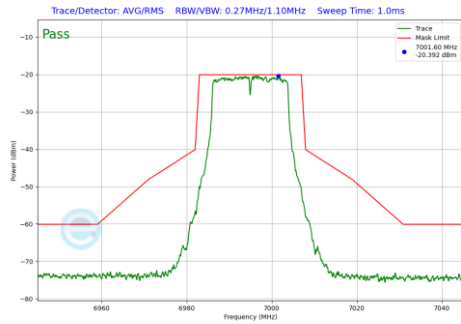


Plot 7-228 In-Band Emission Plot SDM Primary Antenna WF7a (160MHz BW 802.11be(SU) (UNII Band 7) - Ch.143)

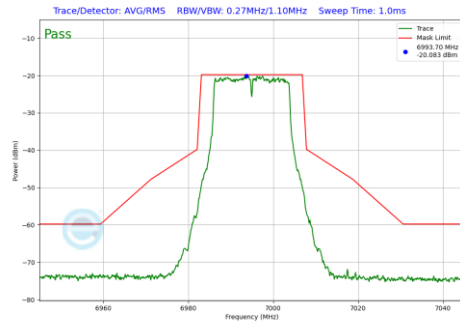


Plot 7-232 In-Band Emission Plot SDM Primary Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 7) - Ch.143)

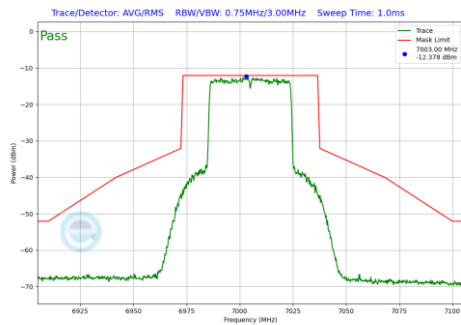
FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 85 of 197	



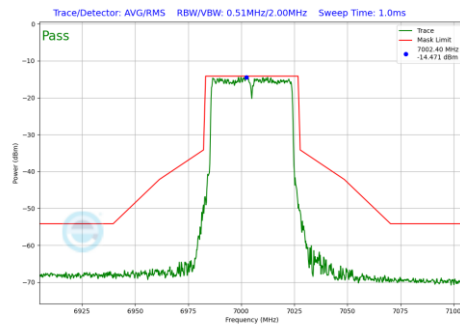
Plot 7-233 In-Band Emission Plot CDD Primary Antenna WF7a (20MHz BW 802.11a (UNII Band 8) - Ch.209)



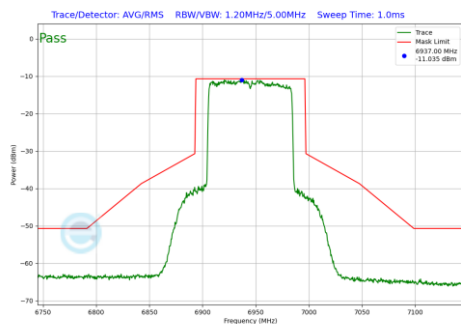
Plot 7-237 In-Band Emission Plot CDD Primary Antenna WF2a (20MHz BW 802.11a (UNII Band 8) - Ch.209)



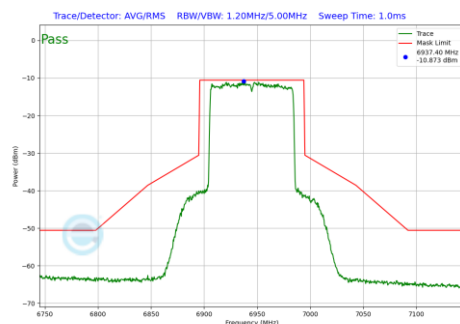
Plot 7-234 In-Band Emission Plot SDM Primary Antenna WF7a (40MHz BW 802.11be(SU) (UNII Band 8) - Ch.211)



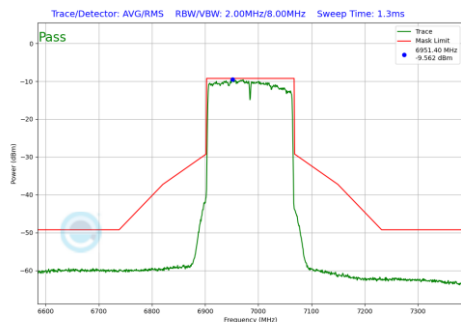
Plot 7-238 In-Band Emission Plot SDM Primary Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 8) - Ch.211)



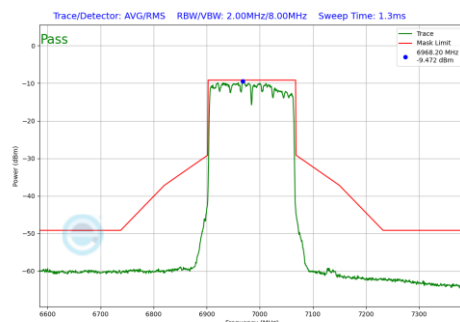
Plot 7-235 In-Band Emission Plot SDM Primary Antenna WF7a (80MHz BW 802.11be(SU) (UNII Band 8) - Ch.199)



Plot 7-239 In-Band Emission Plot SDM Primary Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 8) - Ch.199)



Plot 7-236 In-Band Emission Plot SDM Primary Antenna WF7a (160MHz BW 802.11be(SU) (UNII Band 8) - Ch.207)



Plot 7-240 In-Band Emission Plot SDM Primary Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 8) - Ch.207)

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG			Page 86 of 197

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7.5.5 CDD/SDM Diversity In-Band Emission Measurements – VLP

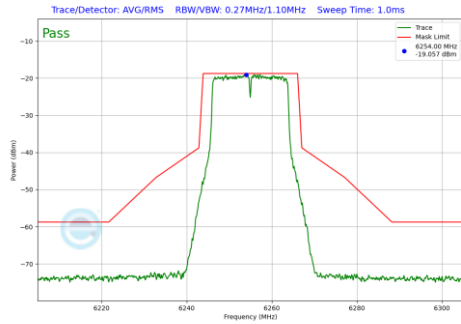
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate	Antenna WF2a In-Band Emission	Antenna WF7b In-Band Emission
Band 5	6115	33	a	CDD	6Mbps	Pass	Pass
	6255	61	a	CDD	12Mbps	Pass	Pass
	6415	93	a	CDD	6Mbps	Pass	Pass
	6115	33	be (20MHz)	SDM	MCS0	Pass	Pass
	6255	61	be (20MHz)	SDM	MCS0	Pass	Pass
	6415	93	be (20MHz)	SDM	MCS0	Pass	Pass
	6125	35	be (40MHz)	SDM	MCS5	Pass	Pass
	6245	59	be (40MHz)	SDM	MCS5	Pass	Pass
	6405	91	be (40MHz)	SDM	MCS0	Pass	Pass
	6145	39	be (80MHz)	SDM	MCS5	Pass	Pass
	6225	55	be (80MHz)	SDM	MCS5	Pass	Pass
	6385	87	be (80MHz)	SDM	MCS0	Pass	Pass
Band 6	6185	47	be (160MHz)	SDM	MCS3	Pass	Pass
	6345	79	be (160MHz)	SDM	MCS5	Pass	Pass
	6435	97	a	CDD	6Mbps	Pass	Pass
	6475	105	a	CDD	6Mbps	Pass	Pass
	6515	113	a	CDD	6Mbps	Pass	Pass
	6435	97	be (20MHz)	SDM	MCS0	Pass	Pass
	6475	105	be (20MHz)	SDM	MCS5	Pass	Pass
	6515	113	be (20MHz)	SDM	MCS0	Pass	Pass
	6445	99	be (40MHz)	SDM	MCS0	Pass	Pass
	6485	107	be (40MHz)	SDM	MCS0	Pass	Pass
	6525	115	be (40MHz)	SDM	MCS0	Pass	Pass
	6465	103	be (80MHz)	SDM	MCS0	Pass	Pass
Band 7	6505	111	be (160MHz)	SDM	MCS0	Pass	Pass
	6535	117	a	CDD	6Mbps	Pass	Pass
	6695	149	a	CDD	12Mbps	Pass	Pass
	6875	185	a	CDD	36Mbps	Pass	Pass
	6535	117	be (20MHz)	SDM	MCS0	Pass	Pass
	6695	149	be (20MHz)	SDM	MCS0	Pass	Pass
	6875	185	be (20MHz)	SDM	MCS0	Pass	Pass
	6565	123	be (40MHz)	SDM	MCS0	Pass	Pass
	6725	155	be (40MHz)	SDM	MCS3	Pass	Pass
	6845	179	be (40MHz)	SDM	MCS0	Pass	Pass
	6545	119	be (80MHz)	SDM	MCS5	Pass	Pass
	6705	151	be (80MHz)	SDM	MCS5	Pass	Pass
Band 8	6865	183	be (80MHz)	SDM	MCS5	Pass	Pass
	6665	143	be (160MHz)	SDM	MCS5	Pass	Pass
	6825	175	be (160MHz)	SDM	MCS5	Pass	Pass
	6895	189	a	CDD	6Mbps	Pass	Pass
	6995	209	a	CDD	6Mbps	Pass	Pass
	7115	233	a	CDD	6Mbps	Pass	Pass
	6895	189	be (20MHz)	SDM	MCS0	Pass	Pass
	6995	209	be (20MHz)	SDM	MCS0	Pass	Pass
	7115	233	be (20MHz)	SDM	MCS0	Pass	Pass
	6885	187	be (40MHz)	SDM	MCS0	Pass	Pass
	7005	211	be (40MHz)	SDM	MCS0	Pass	Pass
	7085	227	be (40MHz)	SDM	MCS0	Pass	Pass
	6945	199	be (80MHz)	SDM	MCS0	Pass	Pass
	7025	215	be (80MHz)	SDM	MCS0	Pass	Pass
	6985	207	be (160MHz)	SDM	MCS0	Pass	Pass

Table 7-39. In-Band Emission Measurements CDD/SDM Diversity

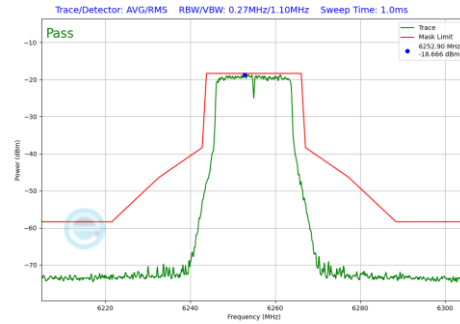
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 87 of 197

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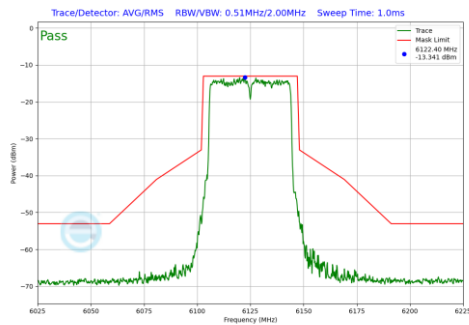
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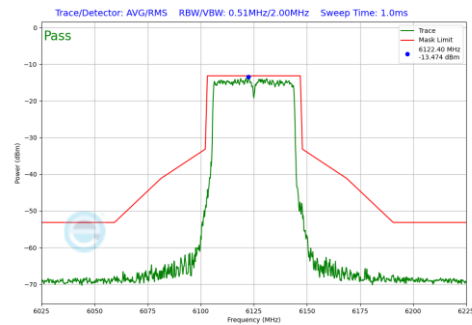
Plot 7-241 In-Band Emission Plot CDD Diversity Antenna WF2a (20MHz BW 802.11a (UNII Band 5) - Ch.61)



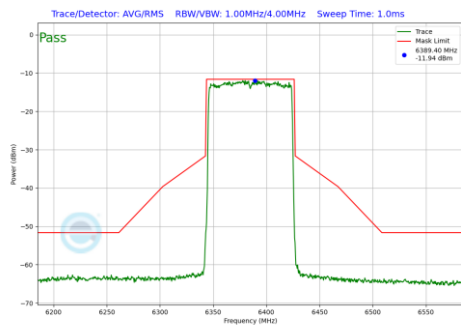
Plot 7-245 In-Band Emission Plot CDD Diversity Antenna WF7b (20MHz BW 802.11a (UNII Band 5) - Ch.61)



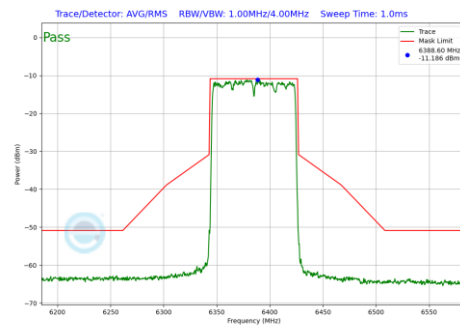
Plot 7-242 In-Band Emission Plot SDM Diversity Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 5) - Ch.35)



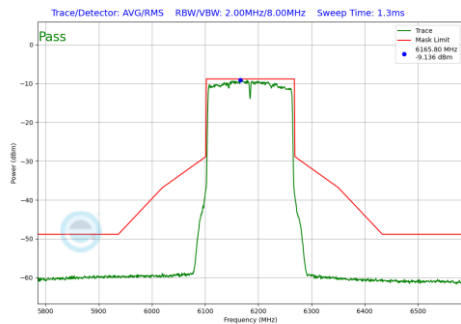
Plot 7-246 In-Band Emission Plot SDM Diversity Antenna WF7b (40MHz BW 802.11be(SU) (UNII Band 5) - Ch.35)



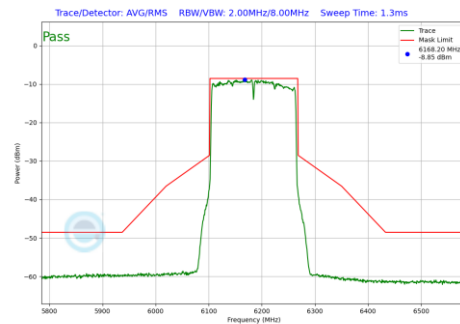
Plot 7-243 In-Band Emission Plot SDM Diversity Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 5) - Ch.87)



Plot 7-247 In-Band Emission Plot SDM Diversity Antenna WF7b (80MHz BW 802.11be(SU) (UNII Band 5) - Ch.87)

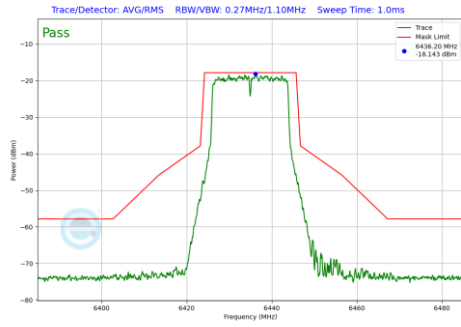


Plot 7-244 In-Band Emission Plot SDM Diversity Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 5) - Ch.47)

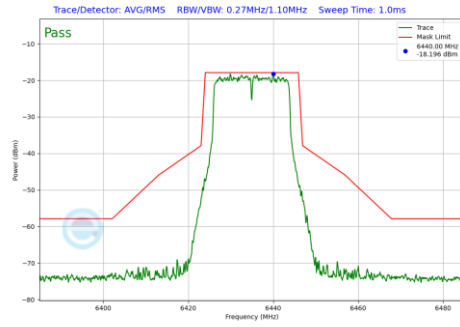


Plot 7-248 In-Band Emission Plot SDM Diversity Antenna WF7b (160MHz BW 802.11be(SU) (UNII Band 5) - Ch.47)

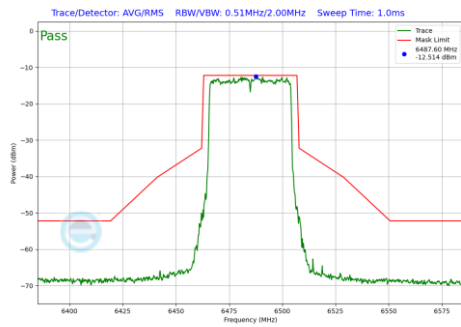
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 88 of 197



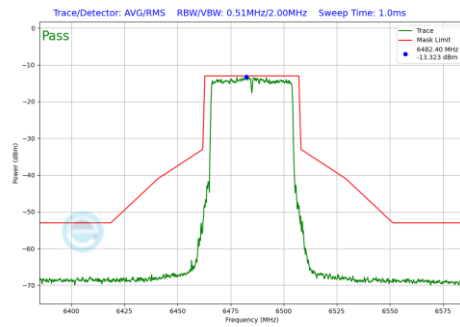
Plot 7-249 In-Band Emission Plot CDD Diversity Antenna WF2a (20MHz BW 802.11a (UNII Band 6) - Ch.97)



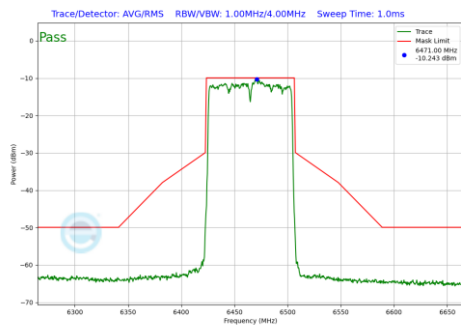
Plot 7-253 In-Band Emission Plot CDD Diversity Antenna WF7b (20MHz BW 802.11a (UNII Band 6) - Ch.97)



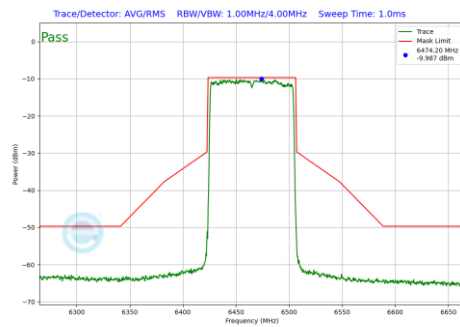
Plot 7-250 In-Band Emission Plot SDM Diversity Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 6) - Ch.107)



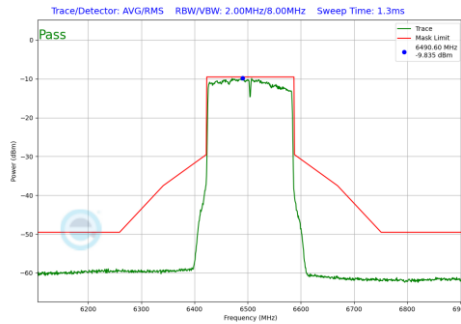
Plot 7-254 In-Band Emission Plot SDM Diversity Antenna WF7b (40MHz BW 802.11be(SU) (UNII Band 6) - Ch.107)



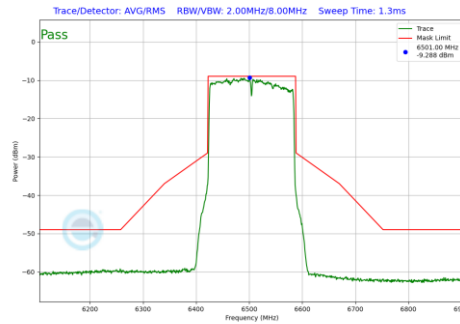
Plot 7-251 In-Band Emission Plot SDM Diversity Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 6) - Ch.103)



Plot 7-255 In-Band Emission Plot SDM Diversity Antenna WF7b (80MHz BW 802.11be(SU) (UNII Band 6) - Ch.103)

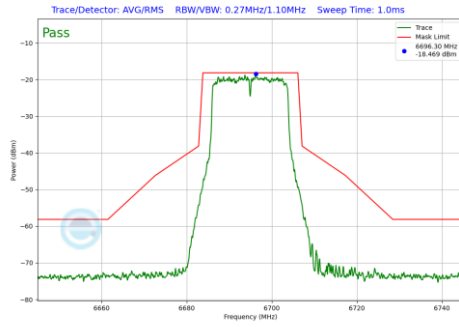


Plot 7-252 In-Band Emission Plot SDM Diversity Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 6) - Ch.111)

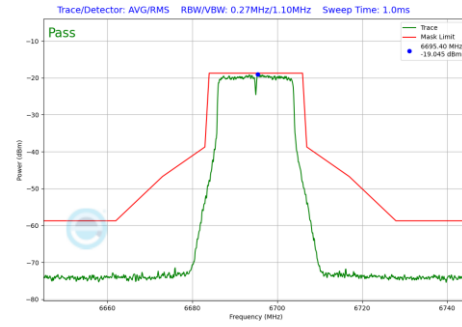


Plot 7-256 In-Band Emission Plot SDM Diversity Antenna WF7b (160MHz BW 802.11be(SU) (UNII Band 6) - Ch.111)

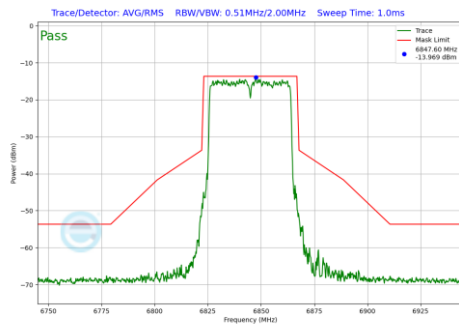
FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 89 of 197	



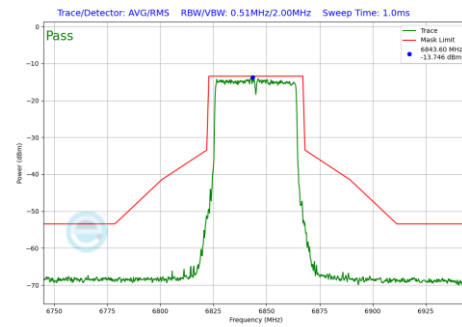
Plot 7-257 In-Band Emission Plot CDD Diversity Antenna WF2a (20MHz BW 802.11a (UNII Band 7) - Ch.149)



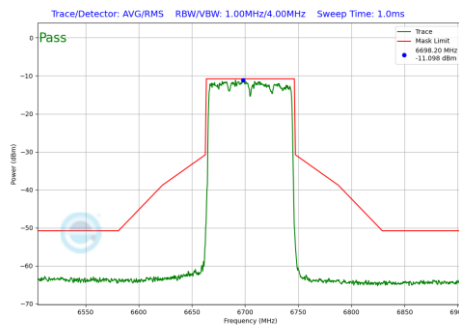
Plot 7-261 In-Band Emission Plot CDD Diversity Antenna WF7b (20MHz BW 802.11a (UNII Band 7) - Ch.149)



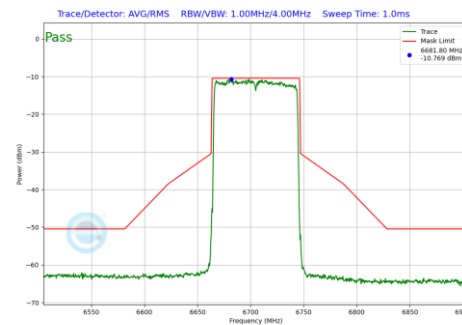
Plot 7-258 In-Band Emission Plot SDM Diversity Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 7) - Ch.179)



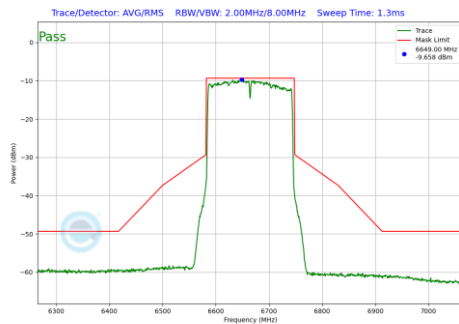
Plot 7-262 In-Band Emission Plot SDM Diversity Antenna WF7b (40MHz BW 802.11be(SU) (UNII Band 7) - Ch.179)



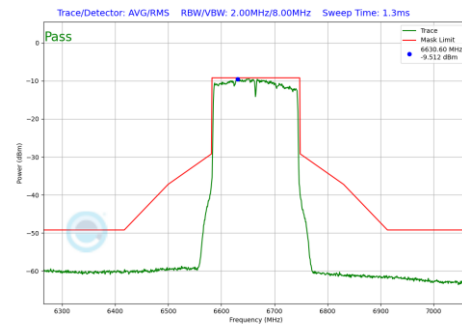
Plot 7-259 In-Band Emission Plot SDM Diversity Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 7) - Ch.151)



Plot 7-263 In-Band Emission Plot SDM Diversity Antenna WF7b (80MHz BW 802.11be(SU) (UNII Band 7) - Ch.151)

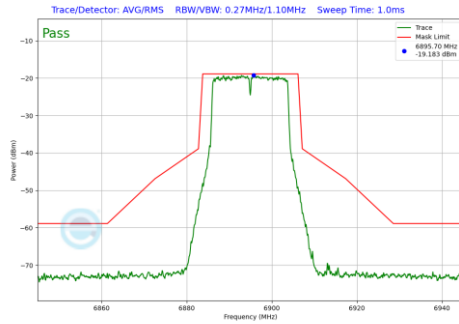


Plot 7-260 In-Band Emission Plot SDM Diversity Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 7) - Ch.143)

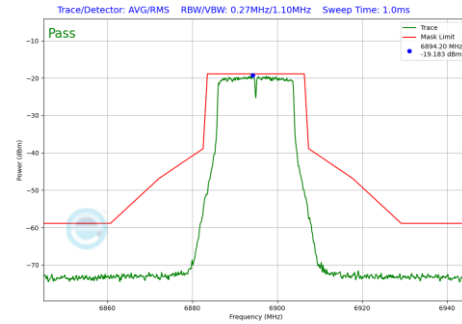


Plot 7-264 In-Band Emission Plot SDM Diversity Antenna WF7b (160MHz BW 802.11be(SU) (UNII Band 7) - Ch.143)

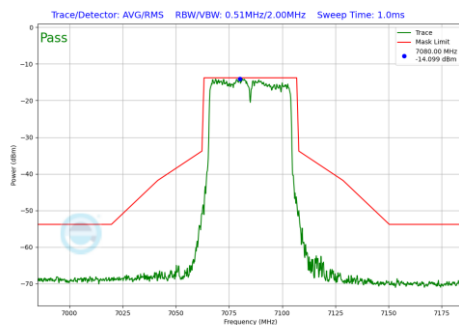
FCC ID: BCGA3461 IC: 579C-A3461			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 90 of 197	



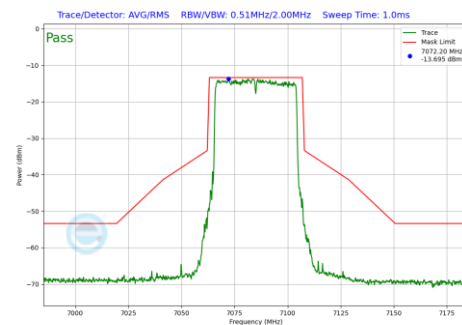
Plot 7-265 In-Band Emission Plot CDD Diversity Antenna WF2a (20MHz BW 802.11a (UNII Band 8) - Ch.189)



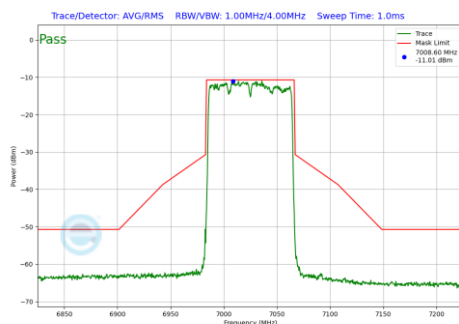
Plot 7-269 In-Band Emission Plot CDD Diversity Antenna WF7b (20MHz BW 802.11a (UNII Band 8) - Ch.189)



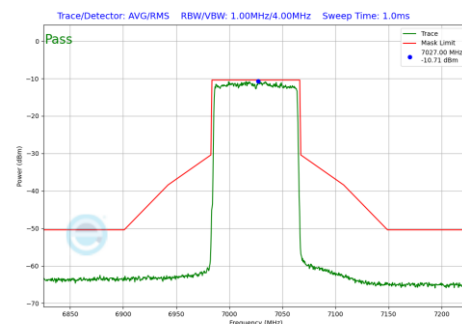
Plot 7-266 In-Band Emission Plot SDM Diversity Antenna WF2a (40MHz BW 802.11be(SU) (UNII Band 8) - Ch.227)



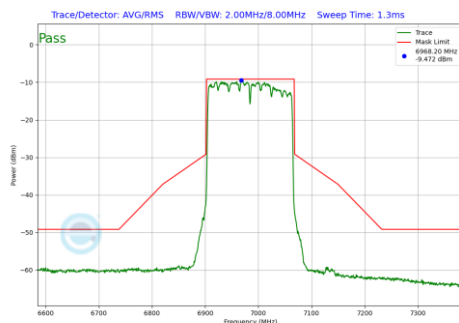
Plot 7-270 In-Band Emission Plot SDM Diversity Antenna WF7b (40MHz BW 802.11be(SU) (UNII Band 8) - Ch.227)



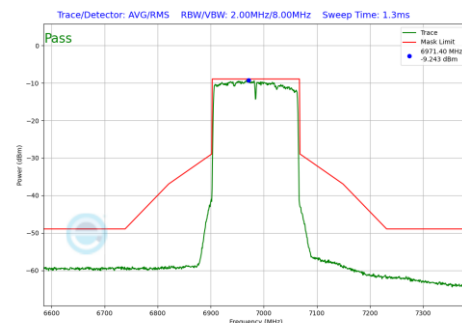
Plot 7-267 In-Band Emission Plot SDM Diversity Antenna WF2a (80MHz BW 802.11be(SU) (UNII Band 8) - Ch.215)



Plot 7-271 In-Band Emission Plot SDM Diversity Antenna WF7b (80MHz BW 802.11be(SU) (UNII Band 8) - Ch.215)



Plot 7-268 In-Band Emission Plot SDM Diversity Antenna WF2a (160MHz BW 802.11be(SU) (UNII Band 8) - Ch.207)



Plot 7-272 In-Band Emission Plot SDM Diversity Antenna WF7b (160MHz BW 802.11be(SU) (UNII Band 8) - Ch.207)

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7.6 Contention Based Protocol

§15.407(d)(6); RSS-248[4.7]

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), while very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands 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 and very 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 and very low power 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 v03 – Section I

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. 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.
7. 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.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
9. 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.
10. 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.
11. Refer to Table 1 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

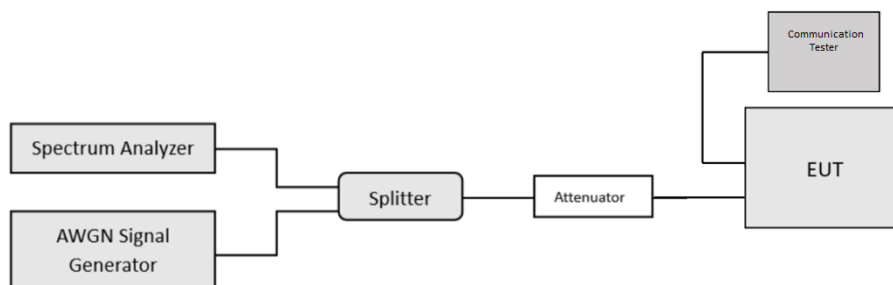


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

1. The EUT supports channel puncturing.
2. Per guidance from KDB 987594 D02 v03, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.
3. Per KDB 987594 D04 v03, contention-based protocol was tested with receiver with the lowest antenna gain.
4. 15 trials were ran in order to assure that at least 90% of certainty was met.
5. The Channel Power (AWGN) plots do not account for the cable loss at the antenna connector. This loss is added separately in the Incumbent Detection Results table. Across UNII-5 to UNII-8, the antenna connectors loss ranges from 1.1 dB to 1.3 dB.

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

Equation 7-1. Incumbent Detection Level Calculation

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Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	53	6215	20	6215	-67.85	-4.50	-63.35	-62.0	-1.35
				6110	-67.79	-4.50	-63.29	-62.0	-1.29
	47	6185	160	6185	-67.88	-4.50	-63.38	-62.0	-1.38
				6260	-67.59	-4.50	-63.09	-62.0	-1.09
UNII Band 6	101	6455	20	6455	-67.66	-4.50	-63.16	-62.0	-1.16
				6430	-67.60	-4.50	-63.10	-62.0	-1.10
	111	6505	160	6505	-67.78	-4.50	-63.28	-62.0	-1.28
				6580	-67.82	-4.50	-63.32	-62.0	-1.32
UNII Band 7	149	6695	20	6695	-68.09	-4.50	-63.59	-62.0	-1.59
				6590	-67.78	-4.50	-63.28	-62.0	-1.28
	143	6665	160	6665	-67.98	-4.50	-63.48	-62.0	-1.48
				6740	-67.92	-4.50	-63.42	-62.0	-1.42
UNII Band 8	197	6935	20	6935	-67.83	-4.50	-63.33	-62.0	-1.33
				6910	-67.71	-4.50	-63.21	-62.0	-1.21
	207	6985	160	6985	-67.90	-4.50	-63.40	-62.0	-1.40
				7060	-67.84	-4.50	-63.34	-62.0	-1.34

Table 7-40. Contention Based Protocol – Incumbent Detection Results

Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	EUT Transmission Status		
					Adjusted AWGN Power (dBm)		
					Normal	Minimal	Ceased
UNII Band 5	53	6215	20	6215	-74.53	-64.60	-63.35
				6110	-74.47	-64.54	-63.29
	47	6185	160	6185	-74.56	-64.63	-63.38
				6260	-74.27	-64.34	-63.09
UNII Band 6	101	6455	20	6455	-74.34	-64.41	-63.16
				6430	-74.28	-64.35	-63.10
	111	6505	160	6505	-74.46	-64.53	-63.28
				6580	-74.50	-64.57	-63.32
UNII Band 7	149	6695	20	6695	-74.57	-64.81	-63.59
				6750	-74.26	-64.50	-63.28
	143	6665	160	6825	-74.46	-64.70	-63.48
				6900	-74.40	-64.64	-63.42
UNII Band 8	197	6935	20	6935	-74.31	-64.55	-63.33
				6910	-74.19	-64.43	-63.21
	207	6985	160	6985	-74.38	-64.62	-63.40
				7060	-74.32	-64.56	-63.34

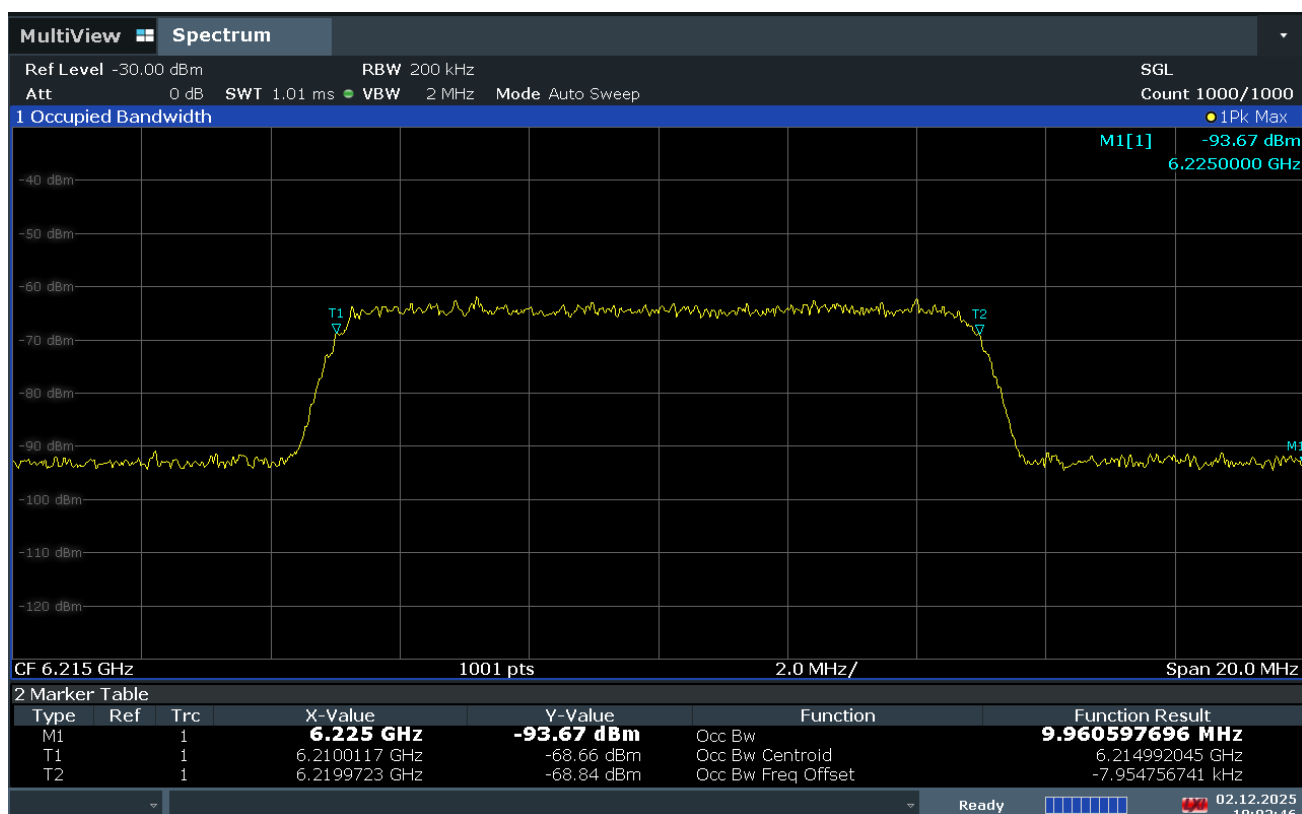
Table 7-41. Contention Based Protocol VLP – Detection Results – All Tx Cases

CBP Detection (1 = Detection, Blank = No Detection)																						
	Channel	Channel Frequency [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate [%]	Limit [%]	Pass/Fail	
UNII Band 5	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	47	6185	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 6	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	111	6505	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 7	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	143	6665	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 8	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	207	6985	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass

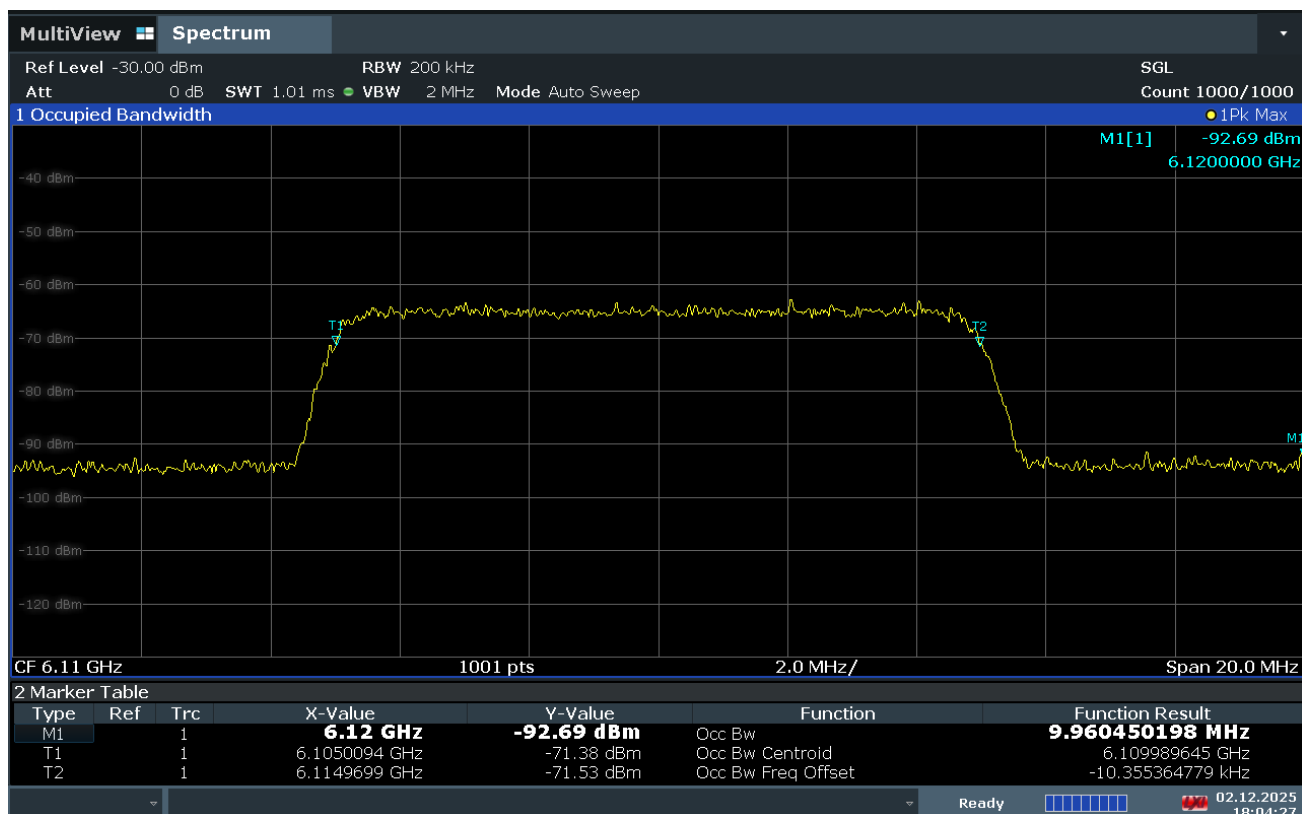
Table 7-42. Contention Based Protocol – Incumbent Detection Trial Results

FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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AWGN Plots



Plot 7-273. AWGN Signal – UNII 5 – 20MHz

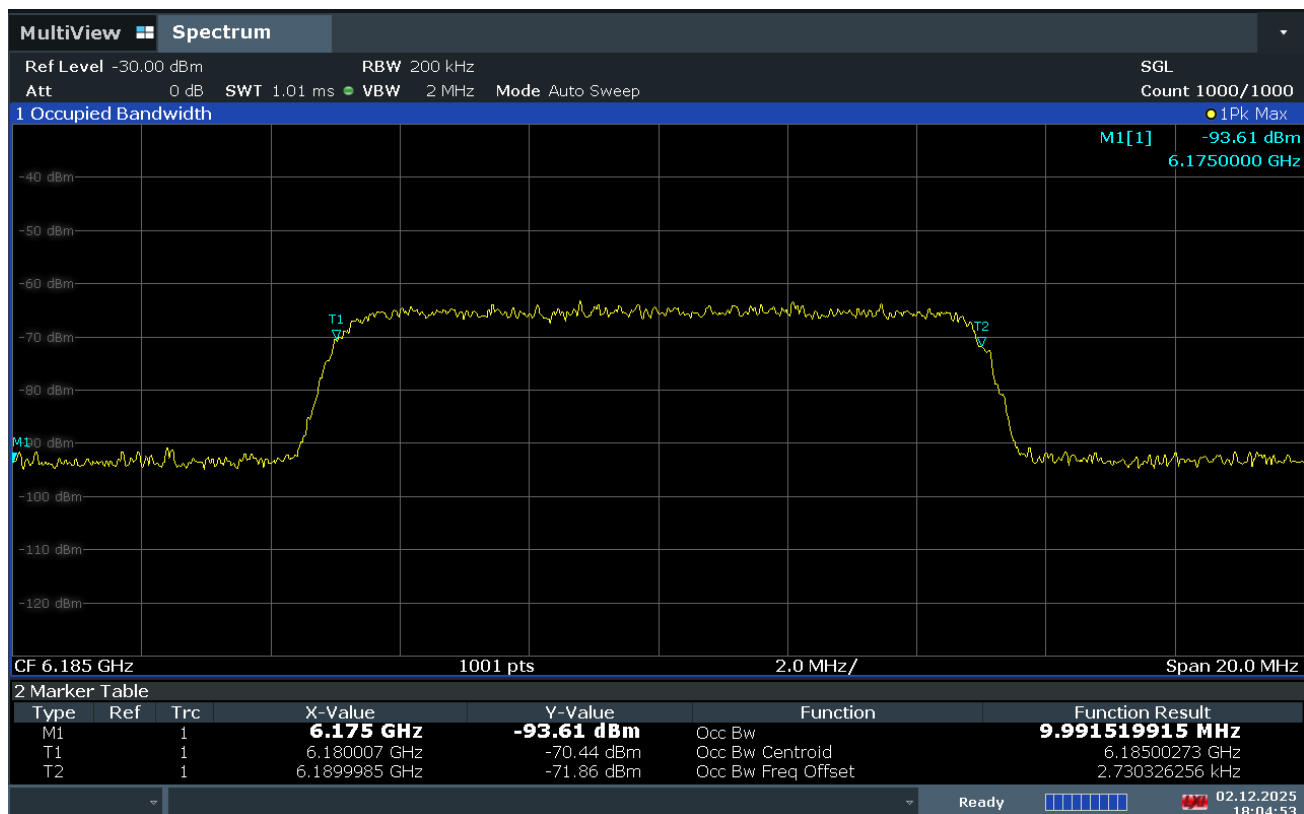


Plot 7-274. AWGN Signal – UNII 5 – 160MHz - Low

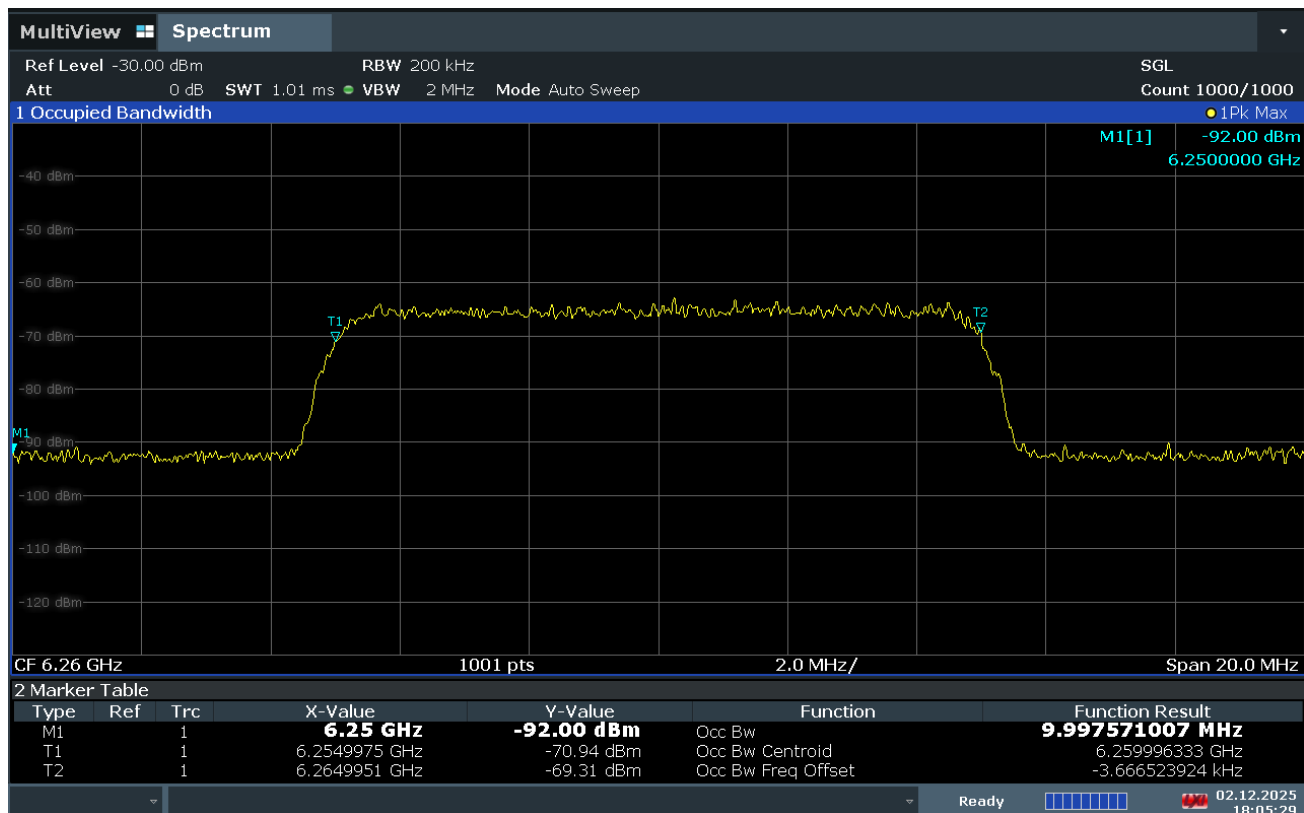
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 95 of 197

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Plot 7-275. AWGN Signal – UNII 5 – 160MHz – Mid

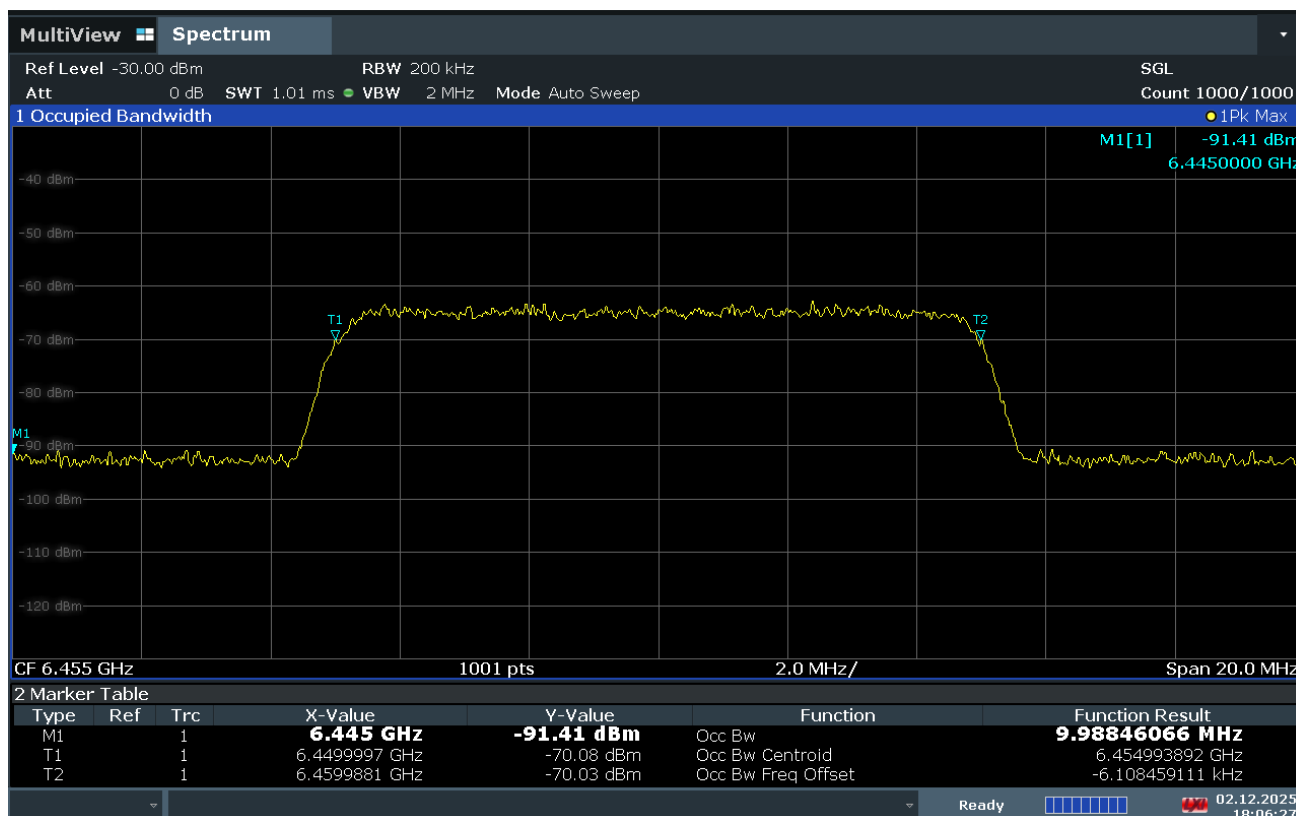


Plot 7-276. AWGN Signal – UNII 5 – 160MHz - High

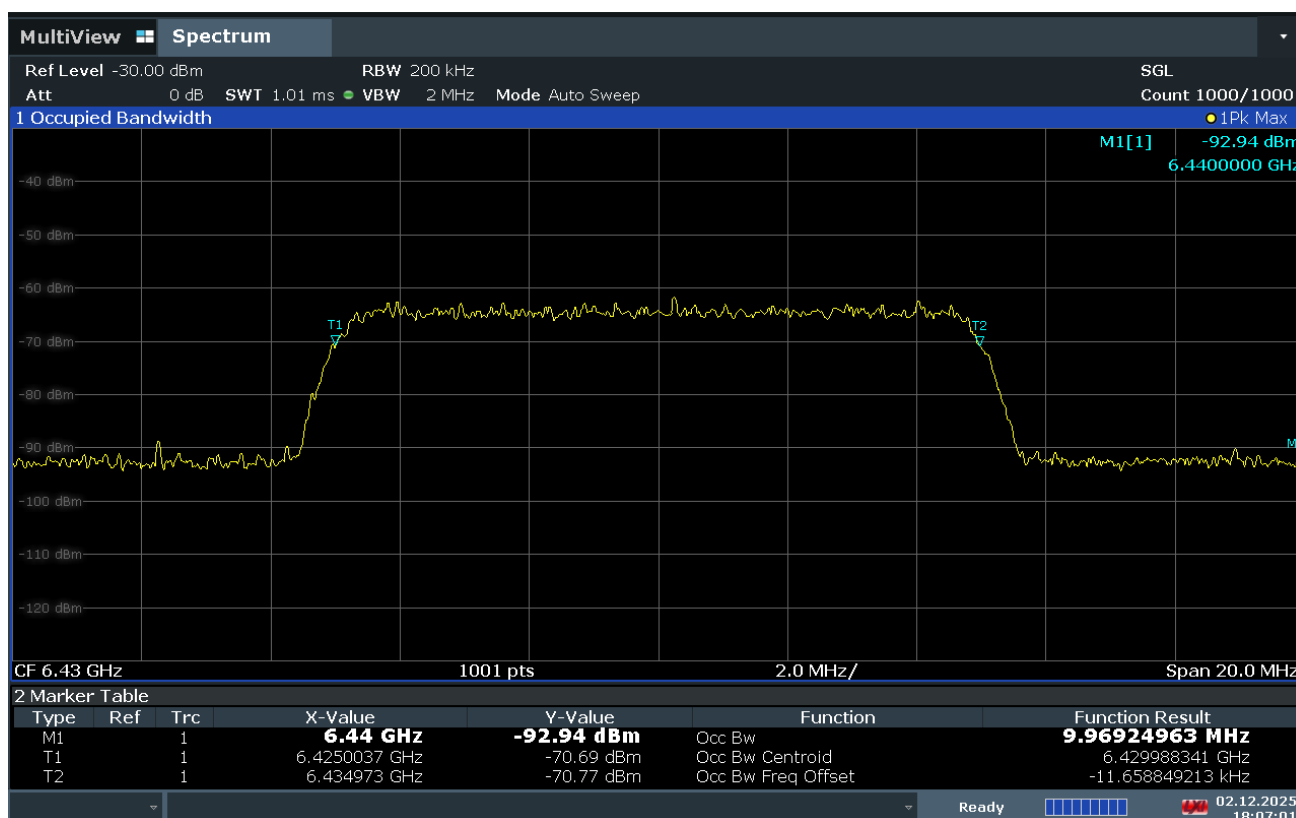
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-277. AWGN Signal – UNII 6 – 20MHz

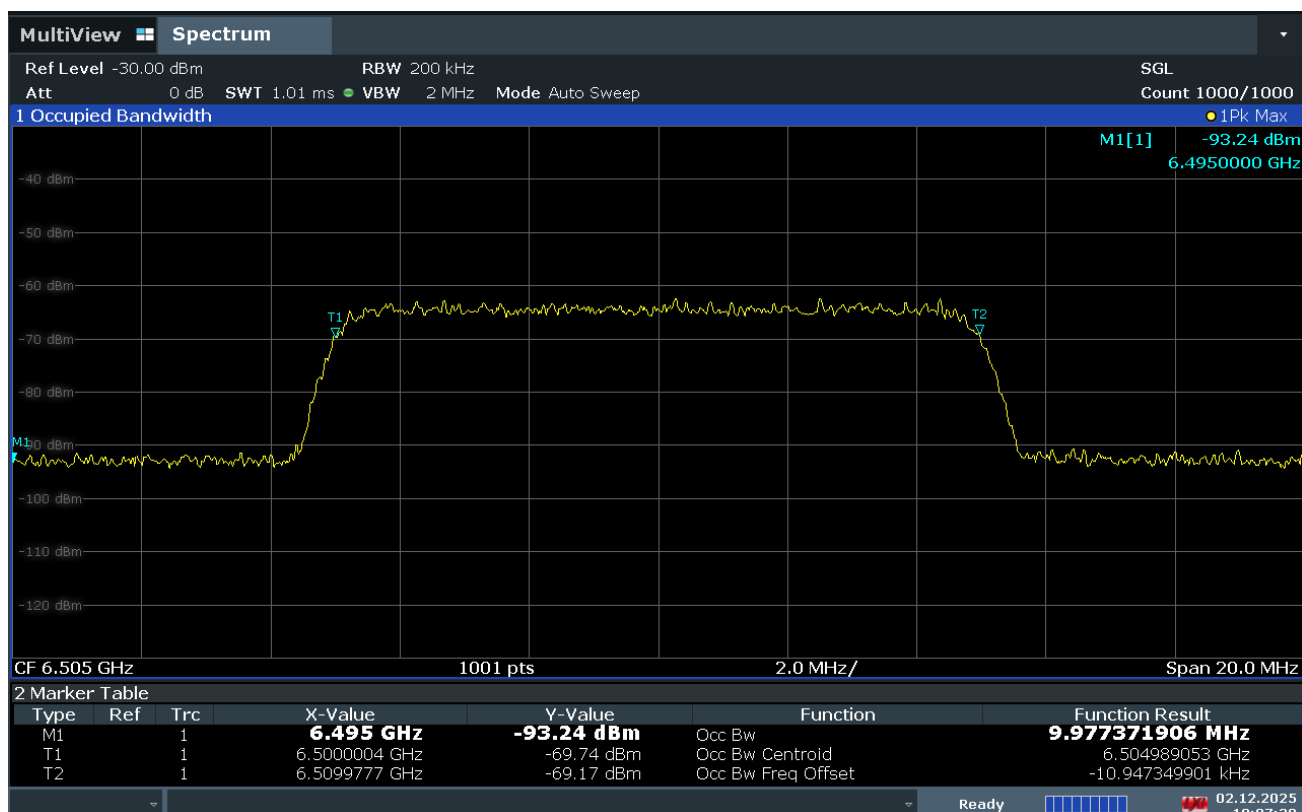


Plot 7-278. AWGN Signal – UNII 6 – 160MHz - Low

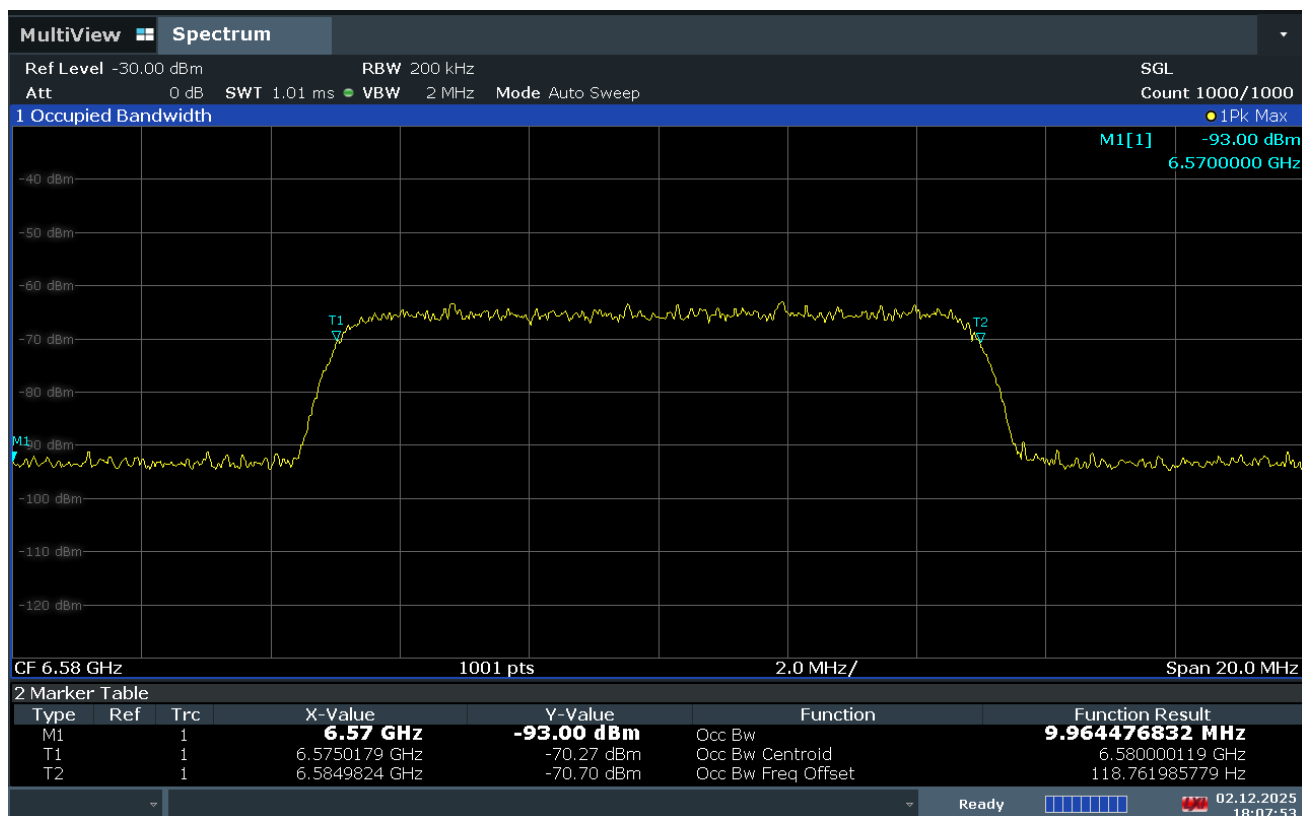
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-279. AWGN Signal – UNII 6 – 160MHz – Mid

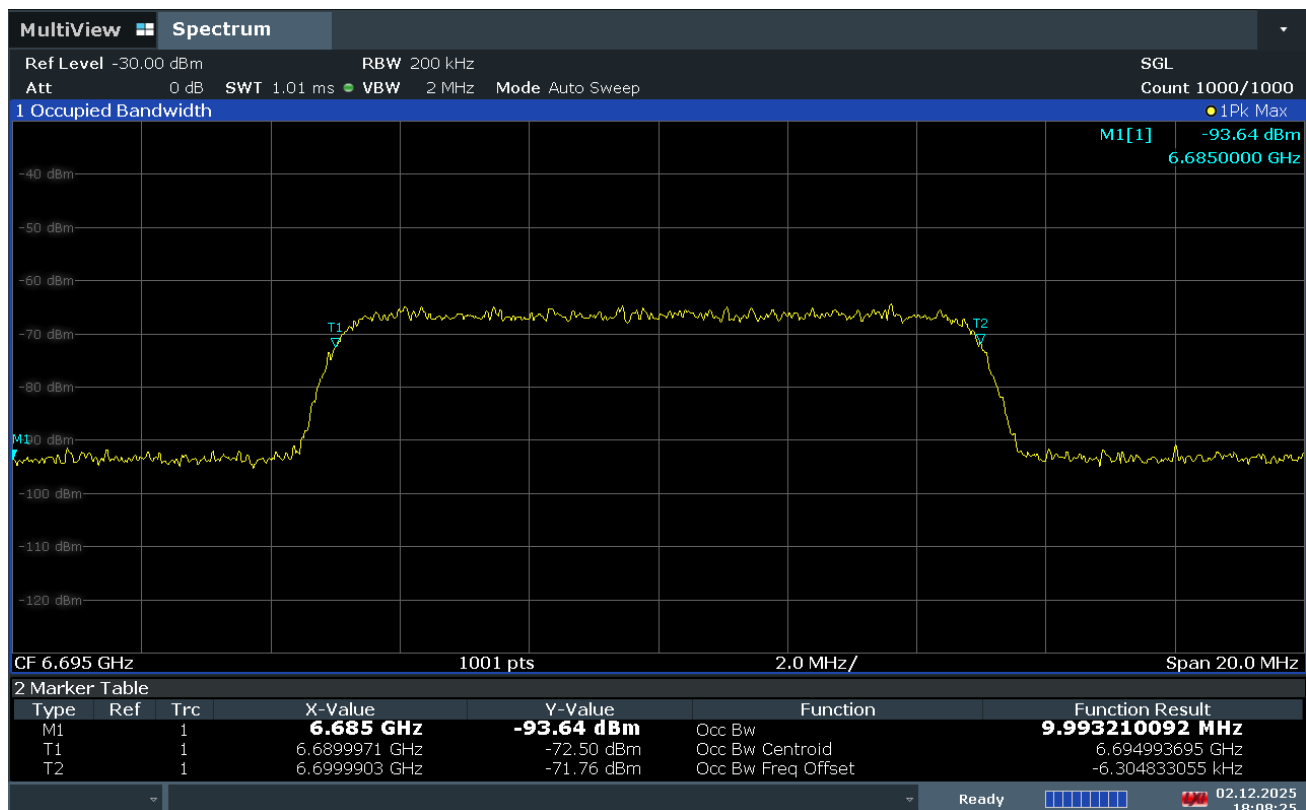


Plot 7-280. AWGN Signal – UNII 6 – 160MHz - High

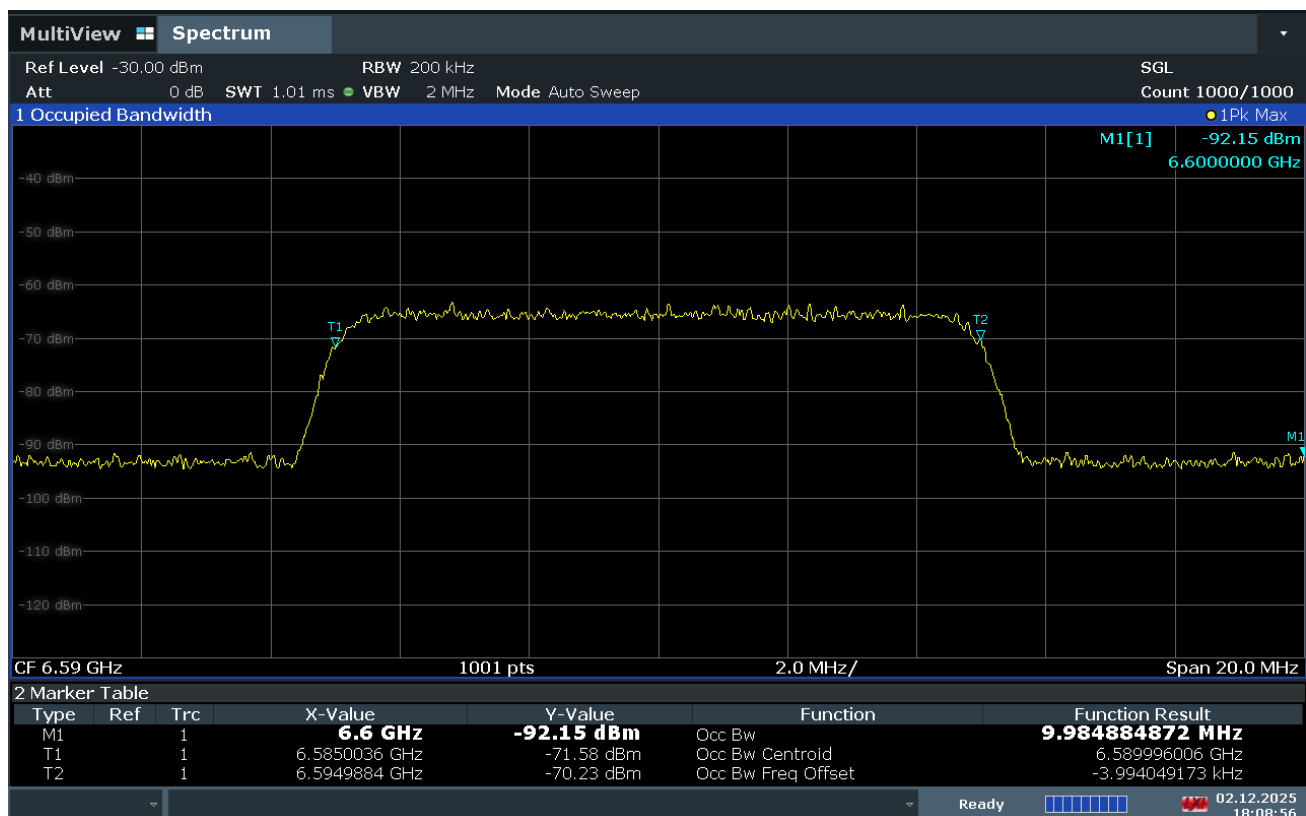
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-281. AWGN Signal – UNII 7 – 20MHz

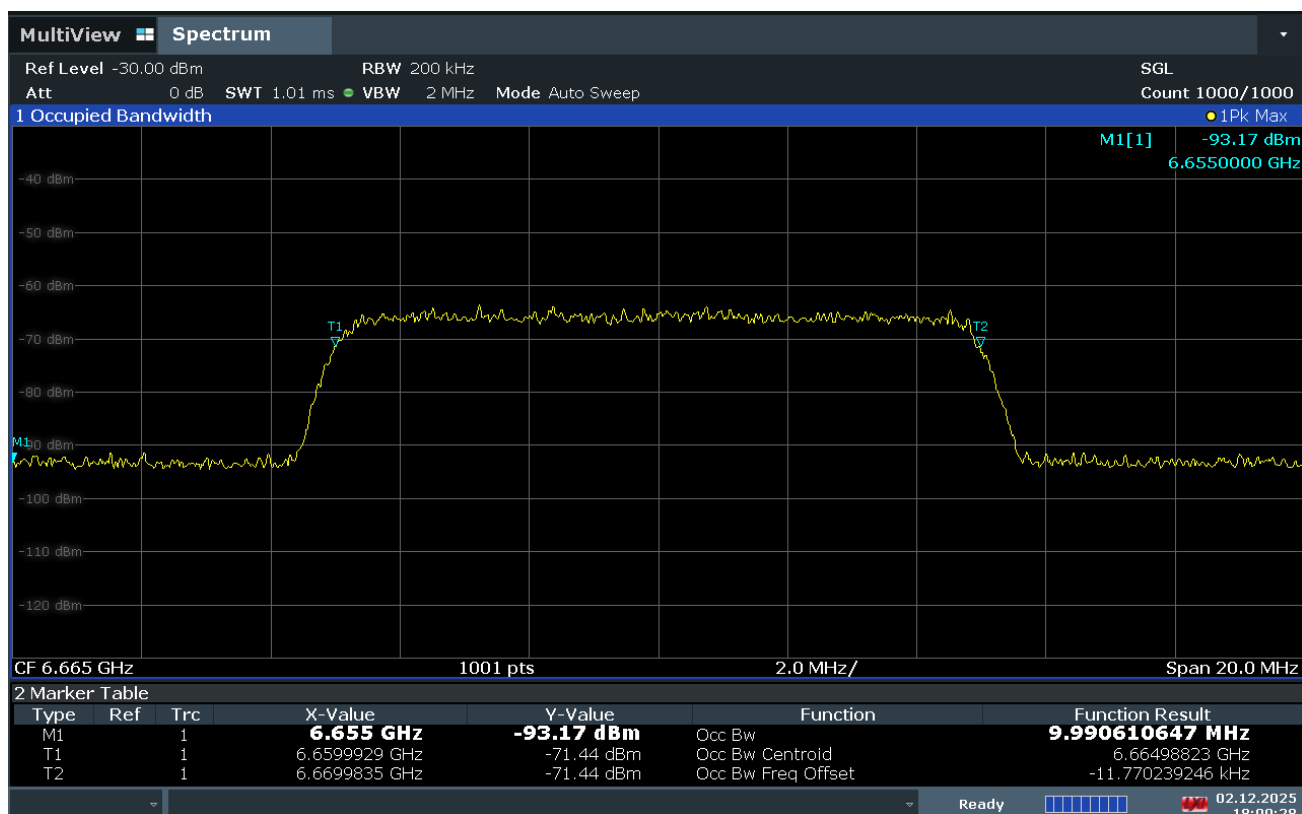


Plot 7-282. AWGN Signal – UNII 7 – 160MHz - Low

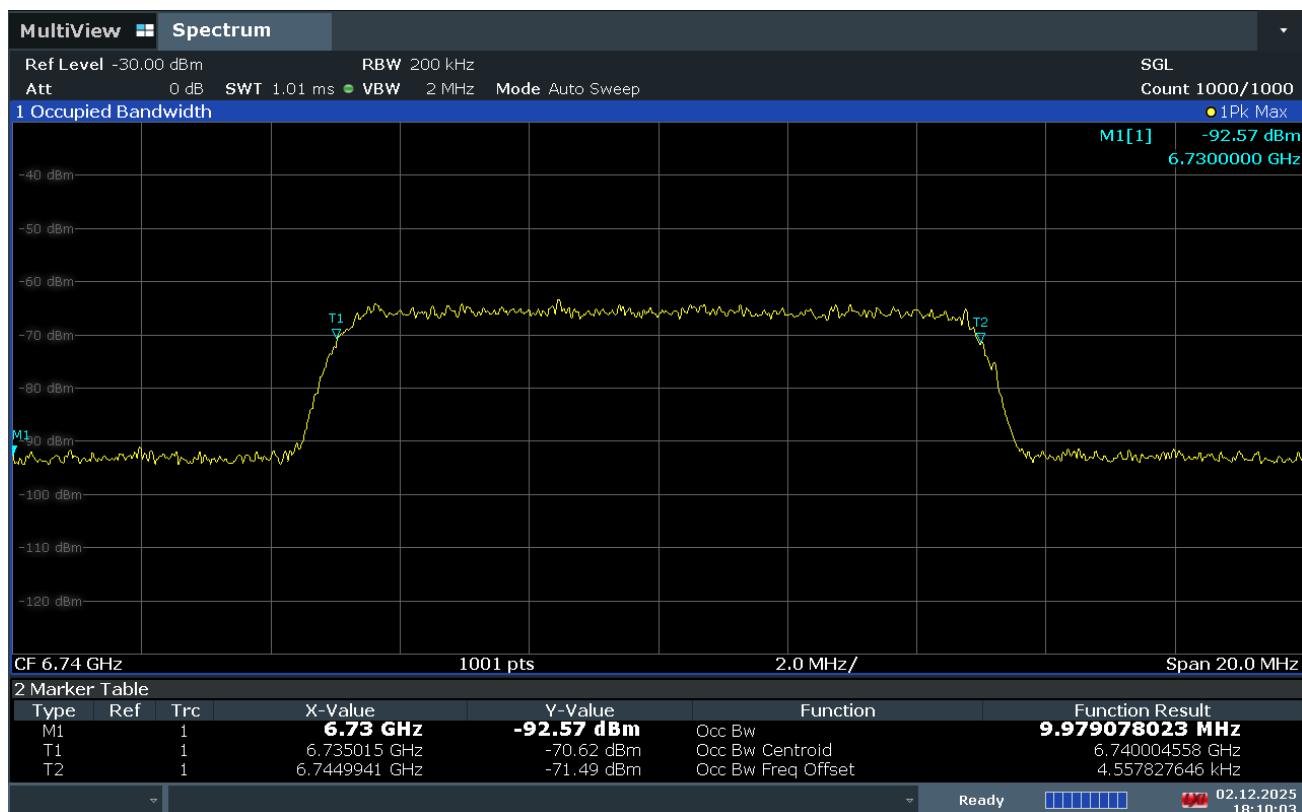
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 99 of 197

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Plot 7-283. AWGN Signal – UNII 7 – 160MHz – Mid

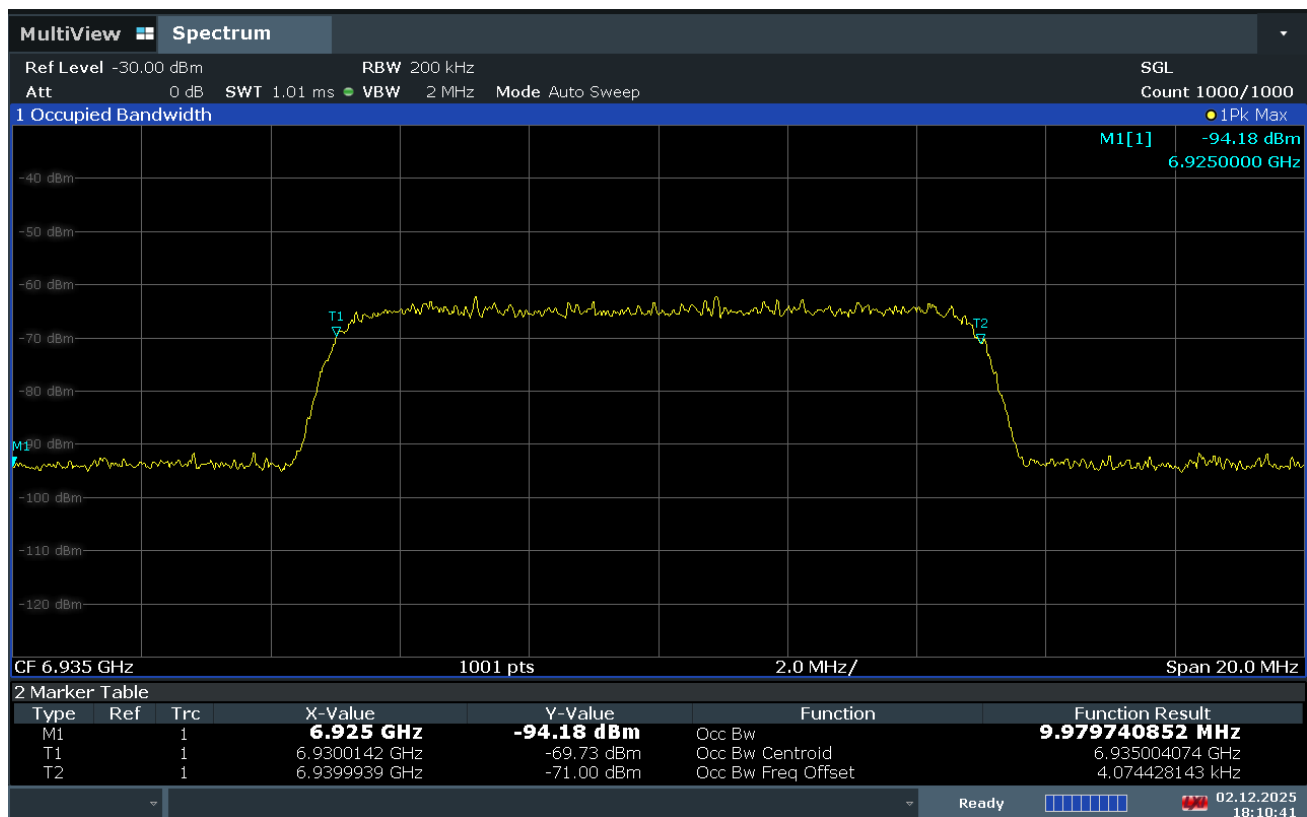


Plot 7-284. AWGN Signal – UNII 7 – 160MHz - High

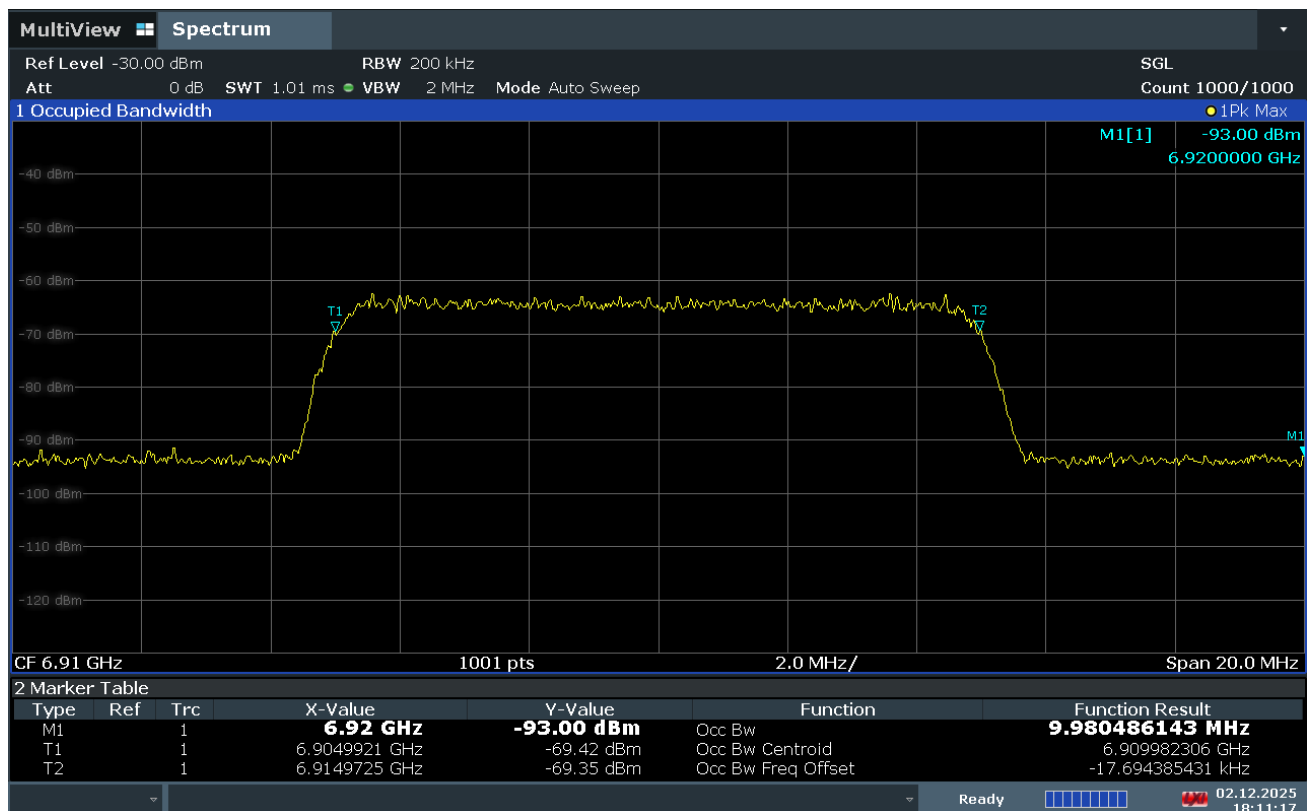
FCC ID: BCGA3461 IC: 579C-A3461		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-285. AWGN Signal – UNII 8 – 20MHz



Plot 7-286. AWGN Signal – UNII 8 – 160MHz - Low

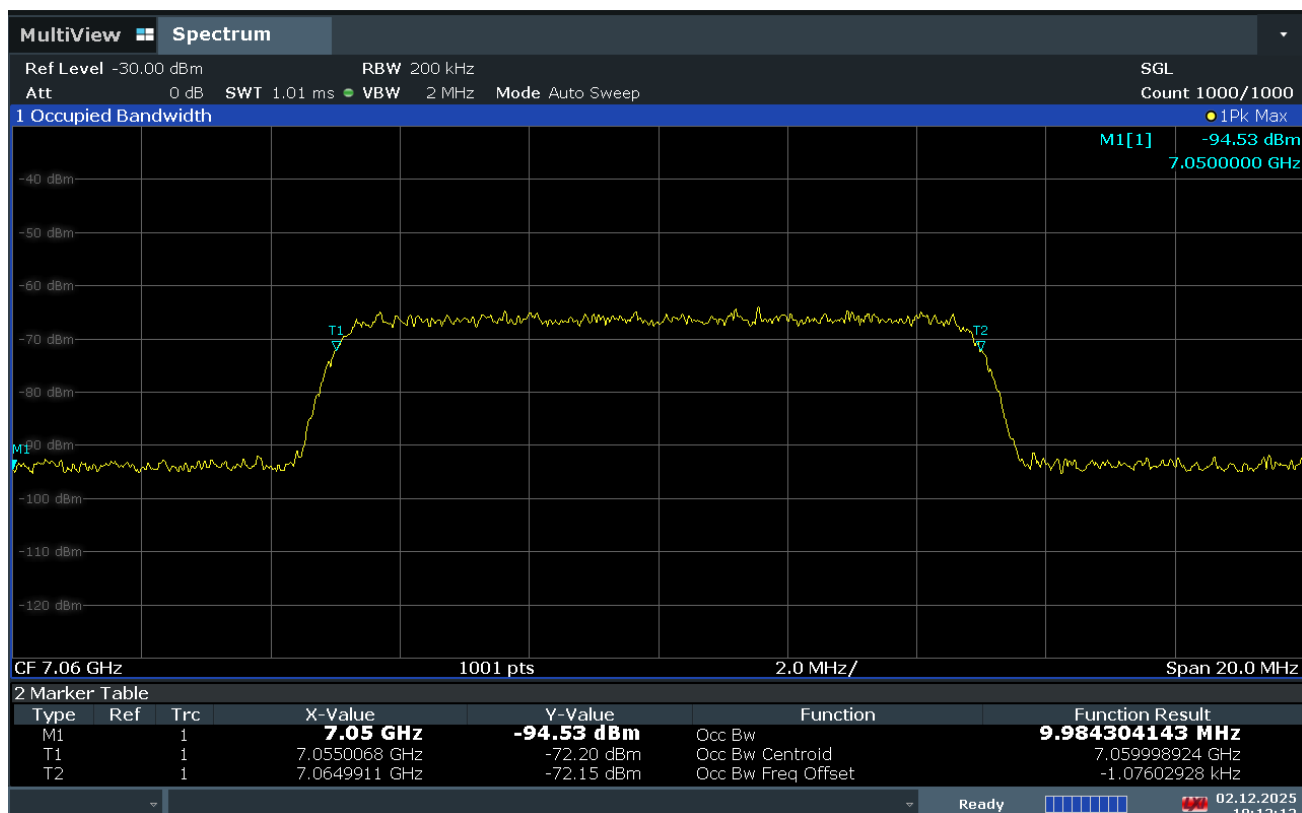
FCC ID: BCGA3461 IC: 579C-A3461	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100081-17-R3.BCG	Test Dates: 9/15/2025 - 01/09/2026	EUT Type: Tablet Device	Page 101 of 197

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Plot 7-287. AWGN Signal – UNII 8 – 160MHz – Mid



Plot 7-288. AWGN Signal – UNII 8 – 160MHz - High

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