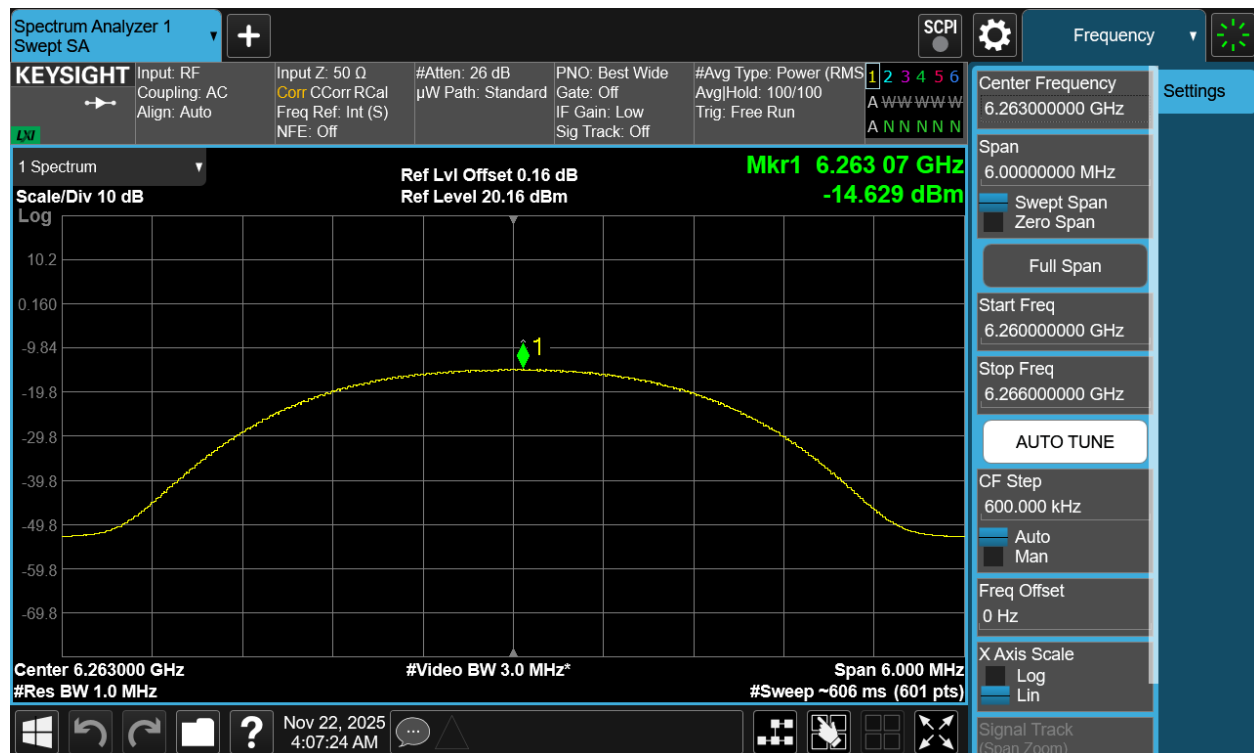
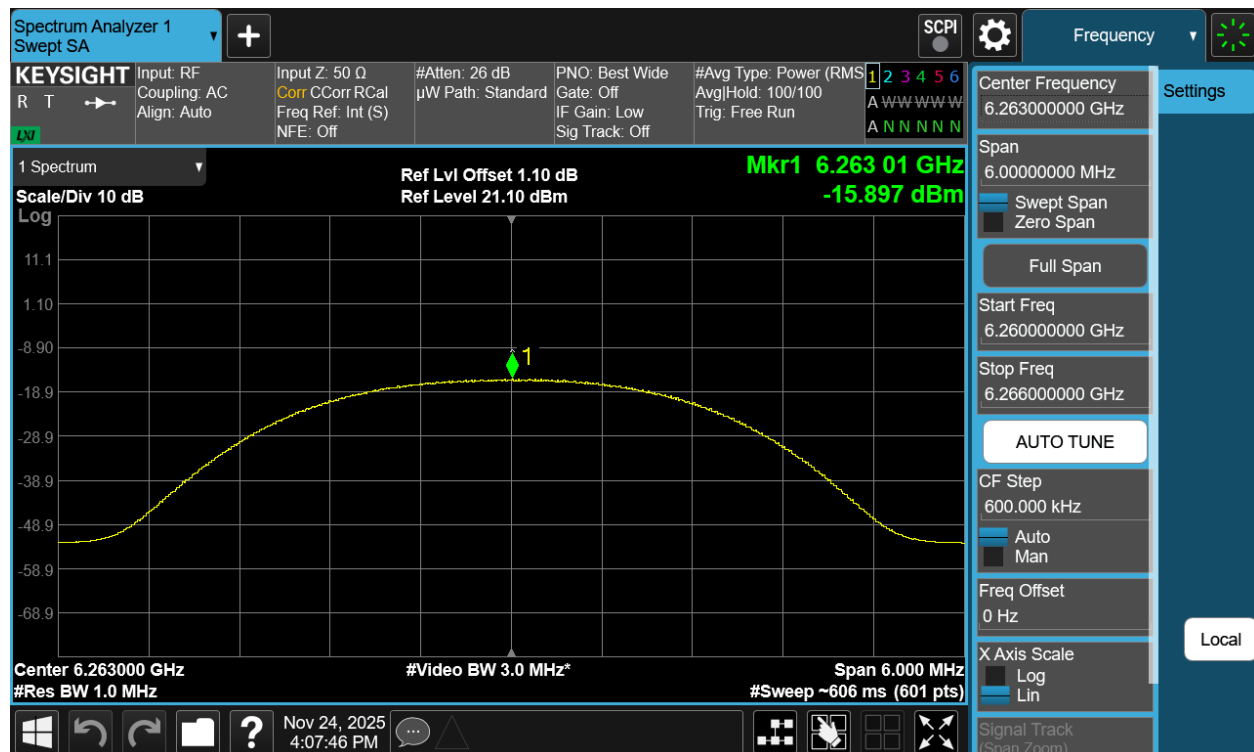




Plot 7-184. PSD Tx BF Diversity Antenna 3c (NB UNII HDR4, iPA – 6263MHz)

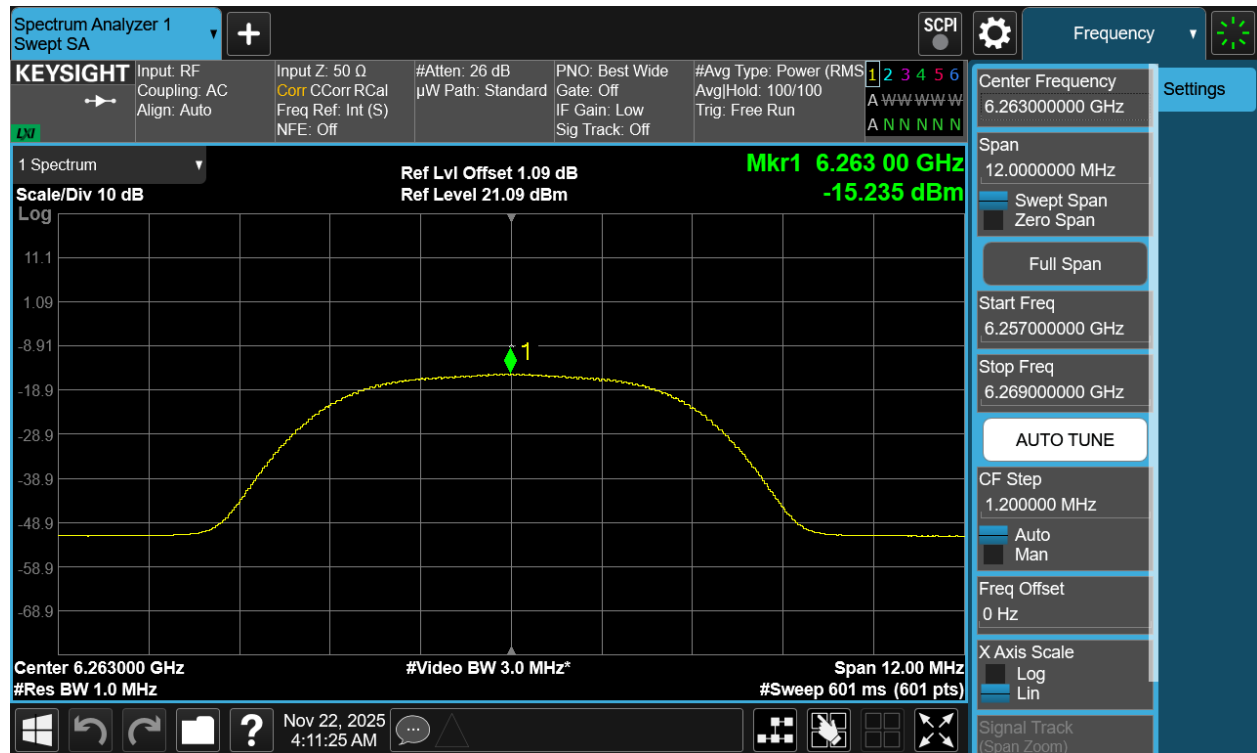


Plot 7-185. PSD Tx BF Diversity Antenna 1b (NB UNII HDR4, iPA – 6263MHz)

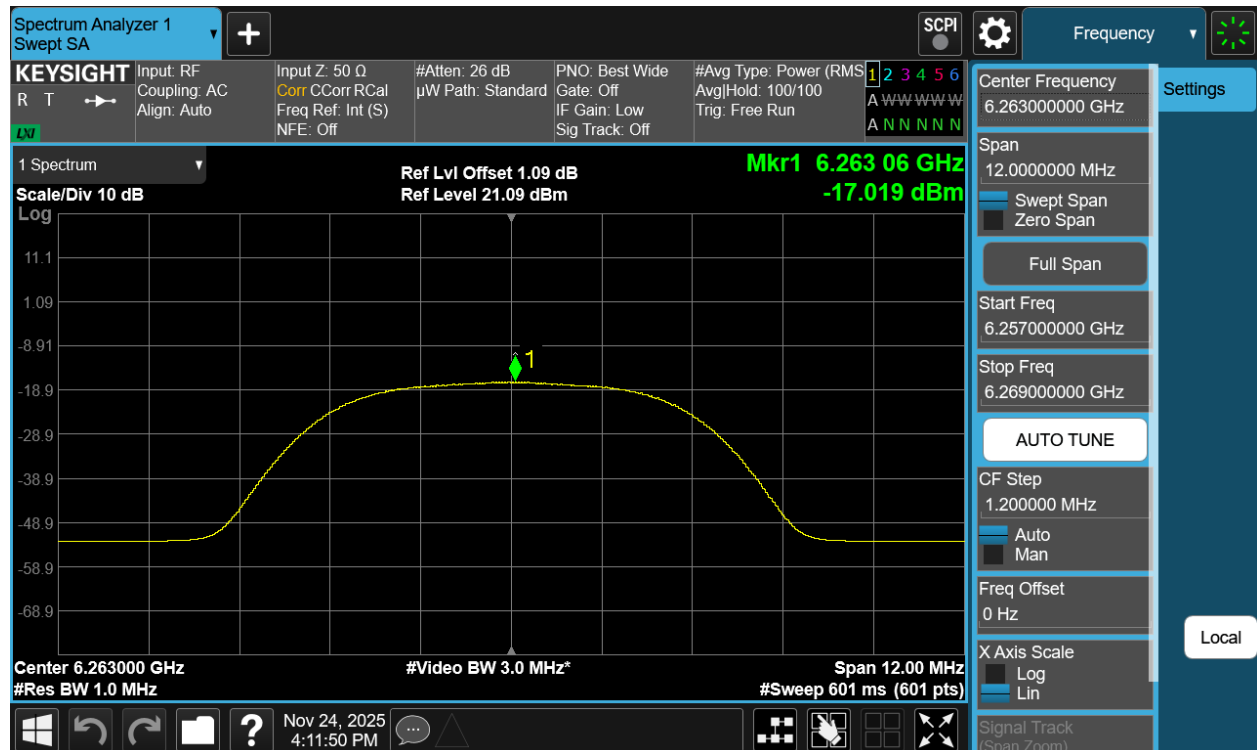
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-186. PSD TxBF Diversity Antenna 3c (NB UNII HDR8, ePA – 6263MHz)

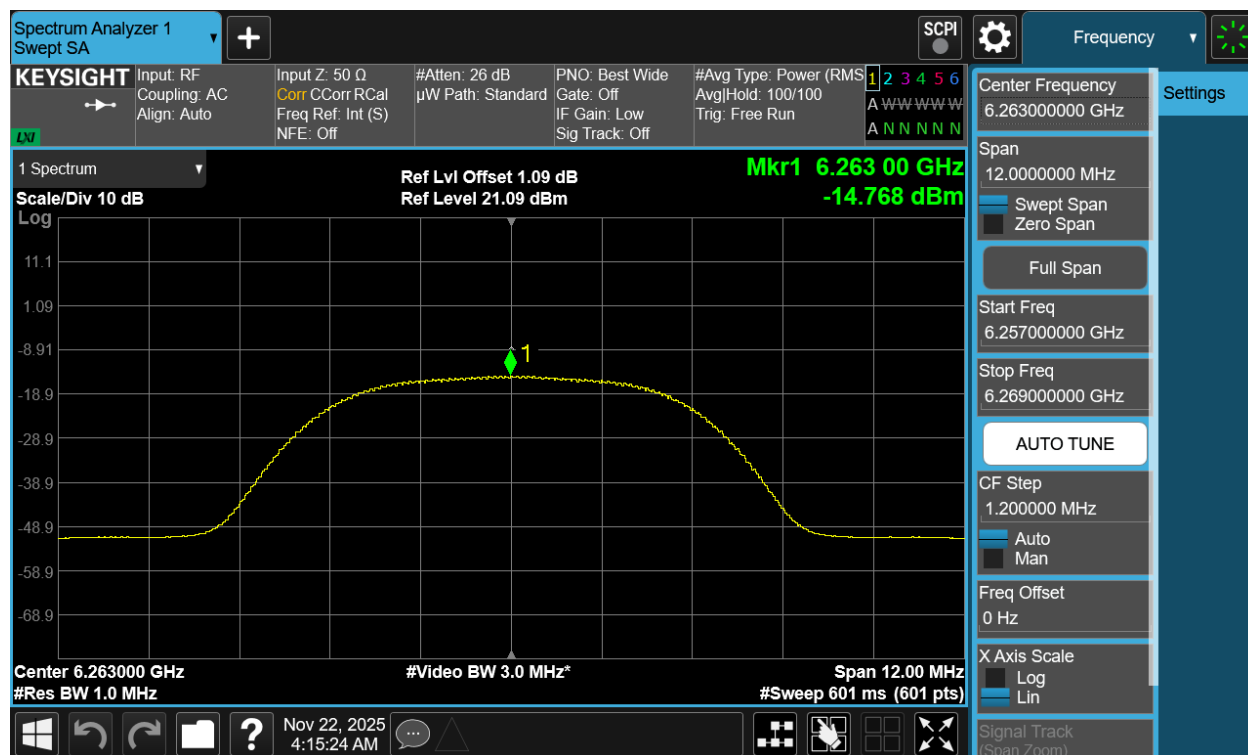


Plot 7-187. PSD TxBF Diversity Antenna 1b (NB UNII HDR8, ePA – 6263MHz)

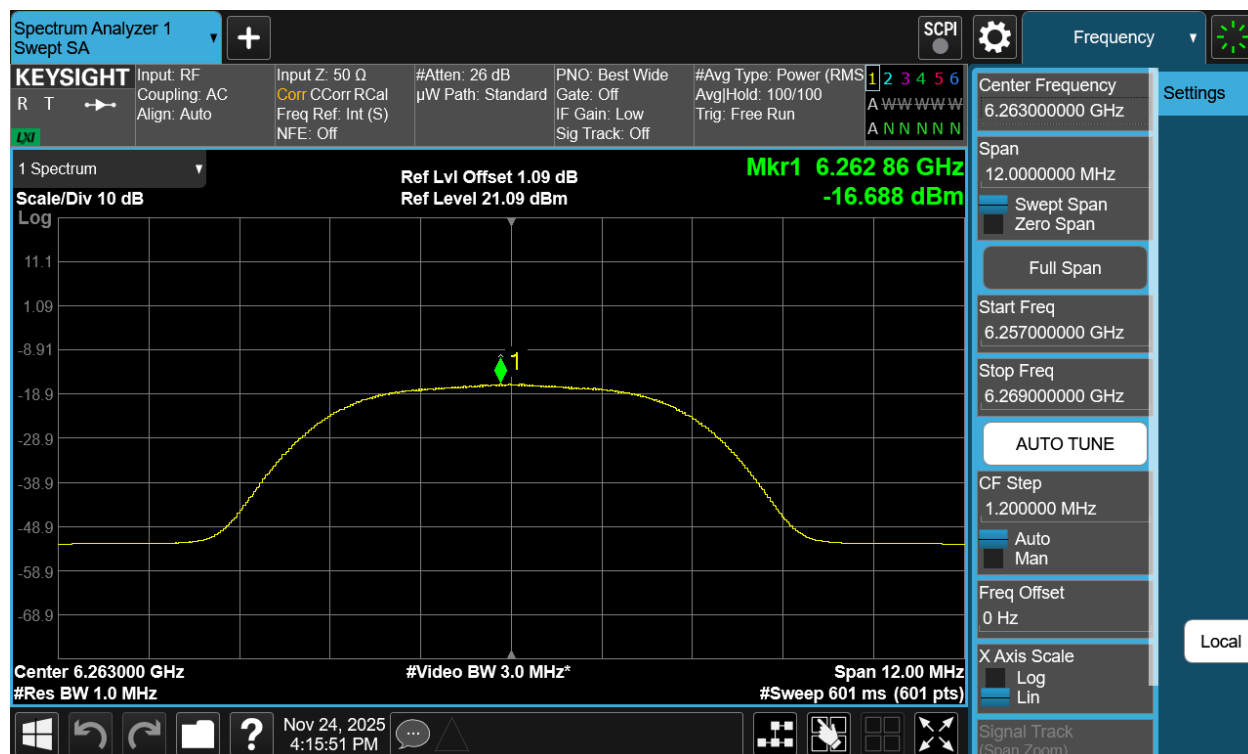
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-188. PSD TxBF Diversity Antenna 3c (NB UNII HDR8, iPA – 6263MHz)



Plot 7-189. PSD TxBF Diversity Antenna 1b (NB UNII HDR8, iPA – 6263MHz)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-190. PSD TxBF Diversity Antenna 3c (NB UNII HDRPS2, ePA – 6263MHz)

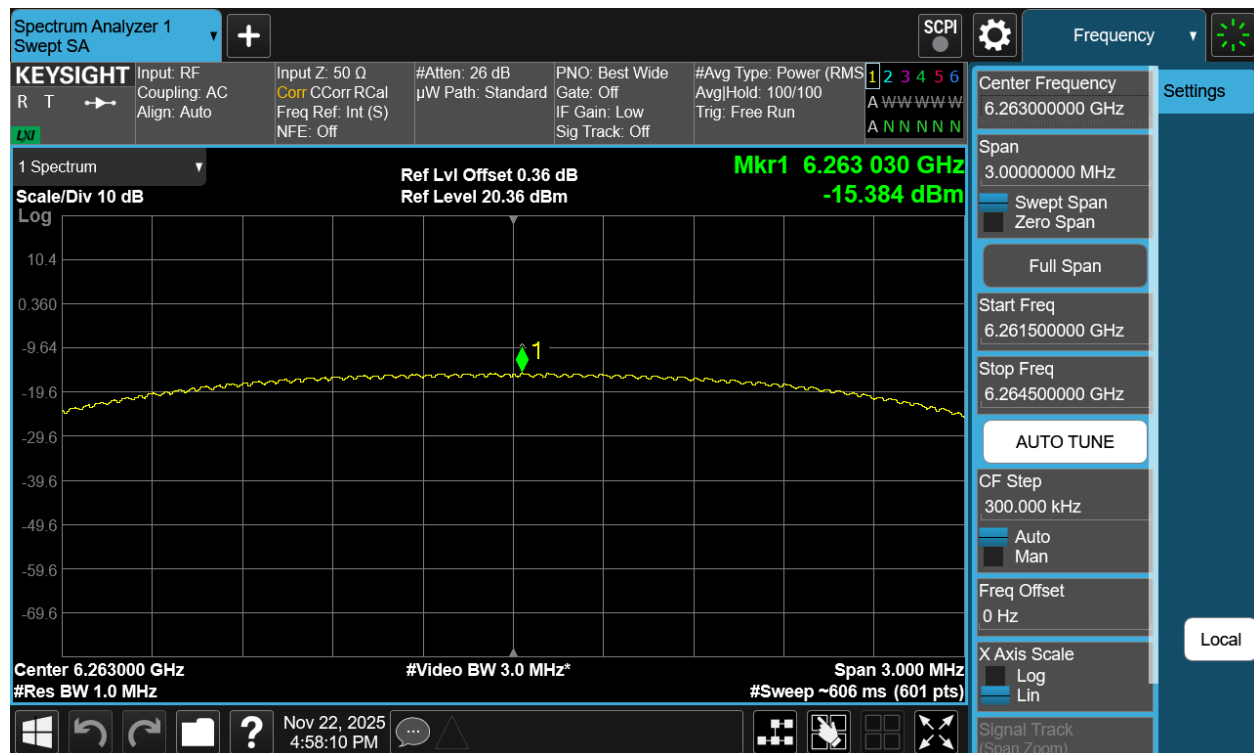


Plot 7-191. PSD TxBF Diversity Antenna 1b (NB UNII HDRPS2, ePA – 6263MHz)

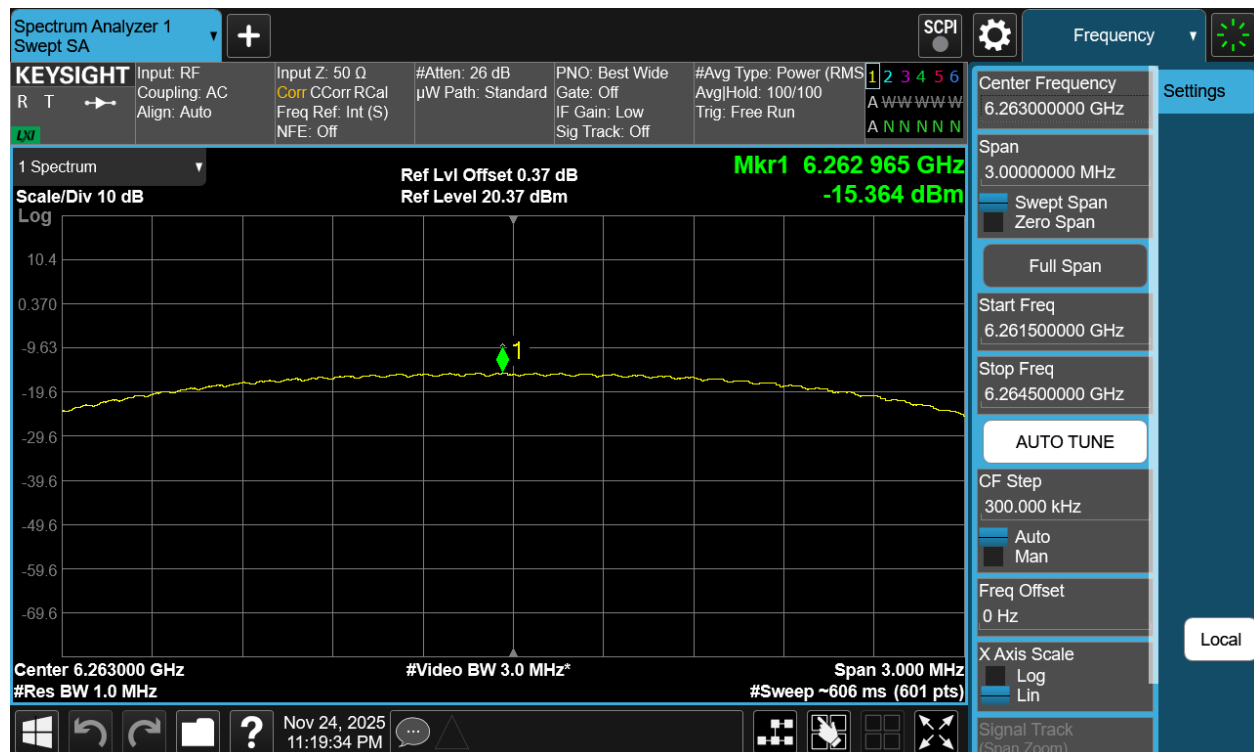
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-192. PSD TxBF Diversity Antenna 3c (NB UNII HDRPS2, iPA – 6263MHz)

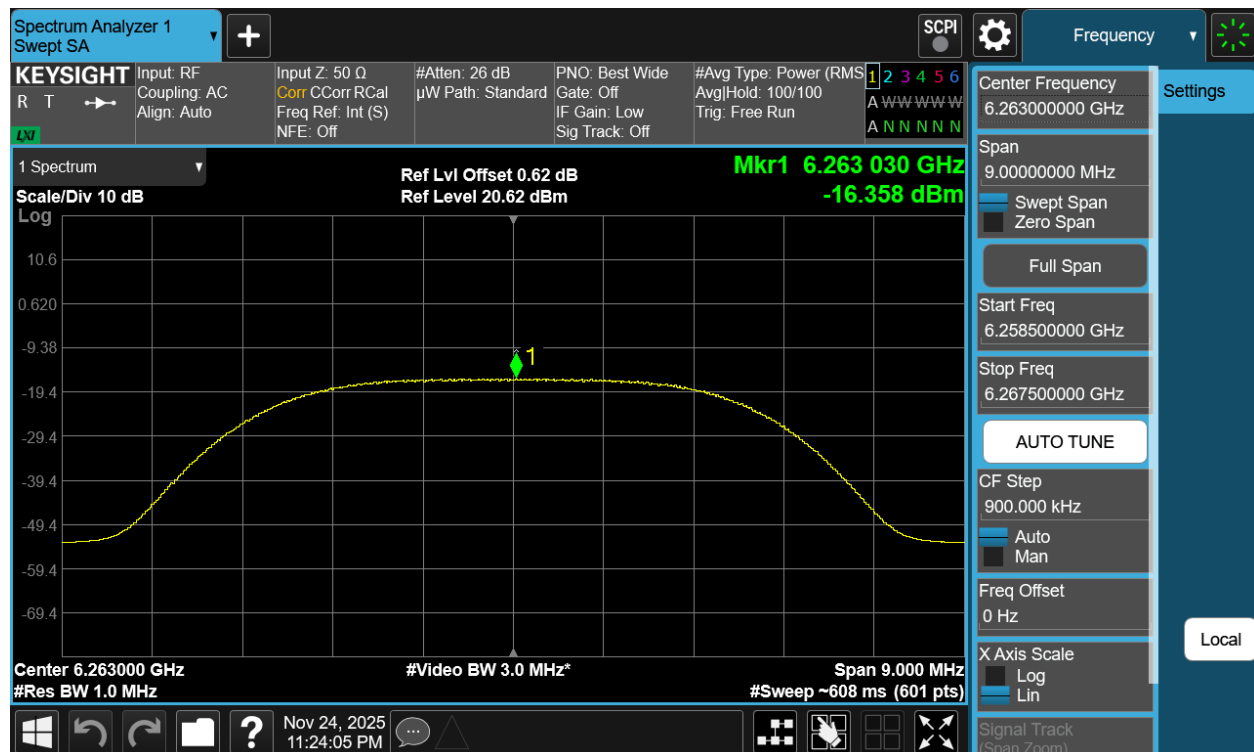
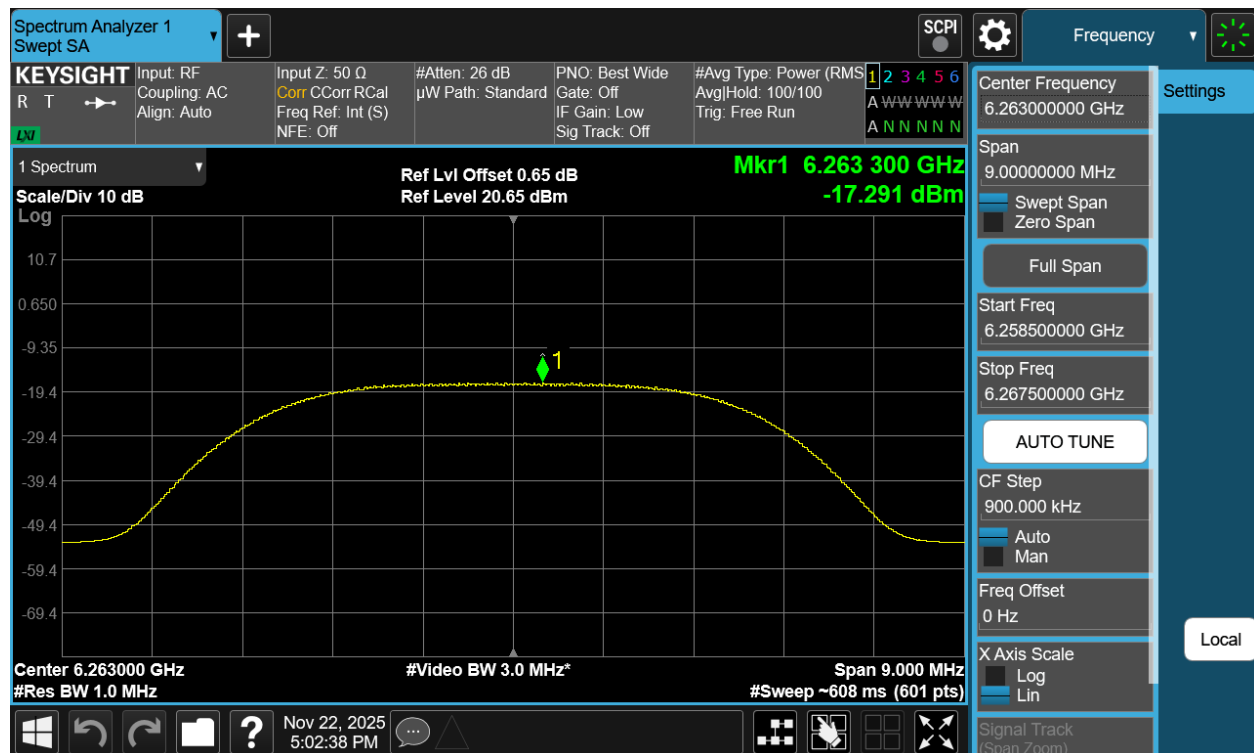


Plot 7-193. PSD TxBF Diversity Antenna 1b (NB UNII HDRPS2, iPA – 6263MHz)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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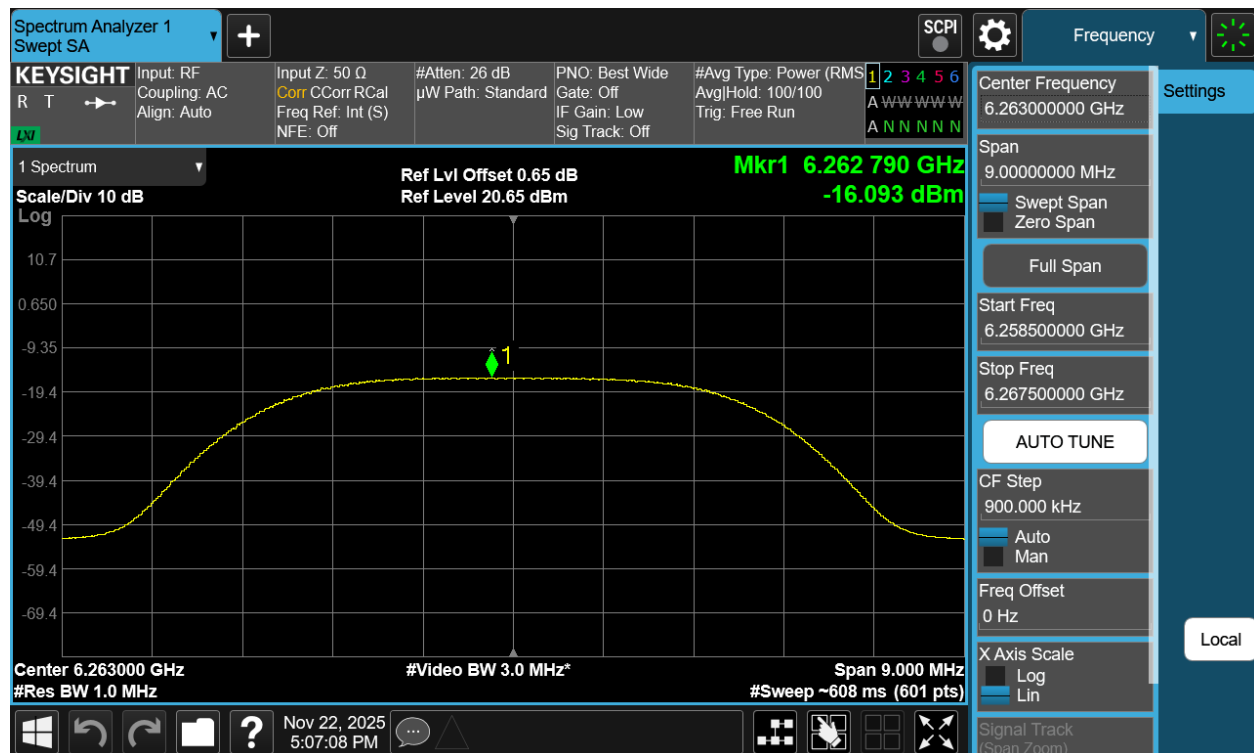
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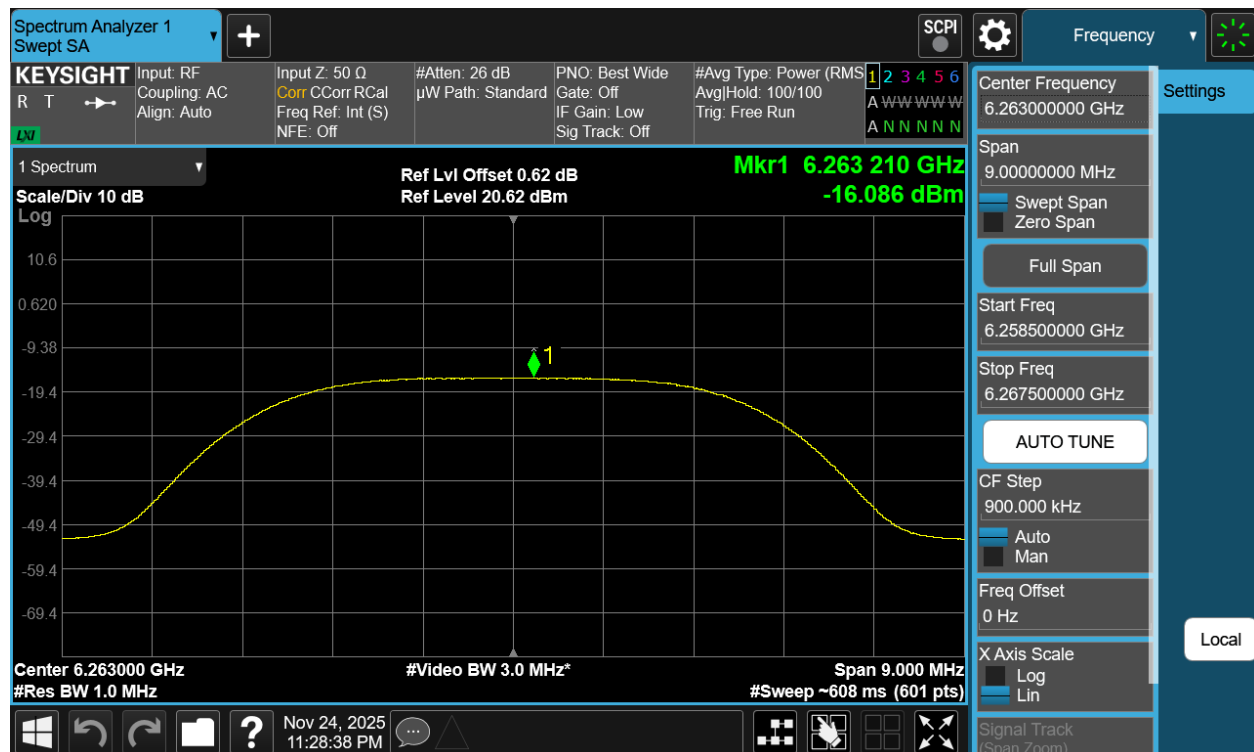
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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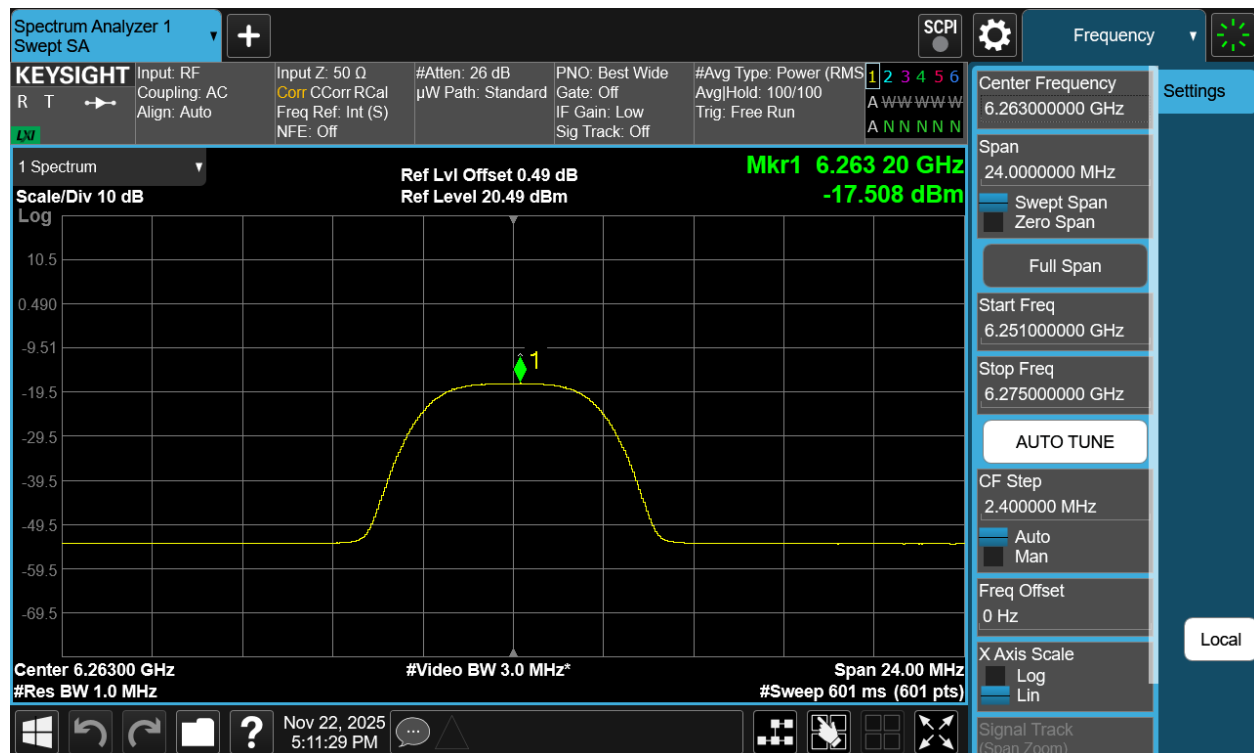


Plot 7-196. PSD TxBF Diversity Antenna 3c (NB UNII XHDRPM6, iPA – 6263MHz)

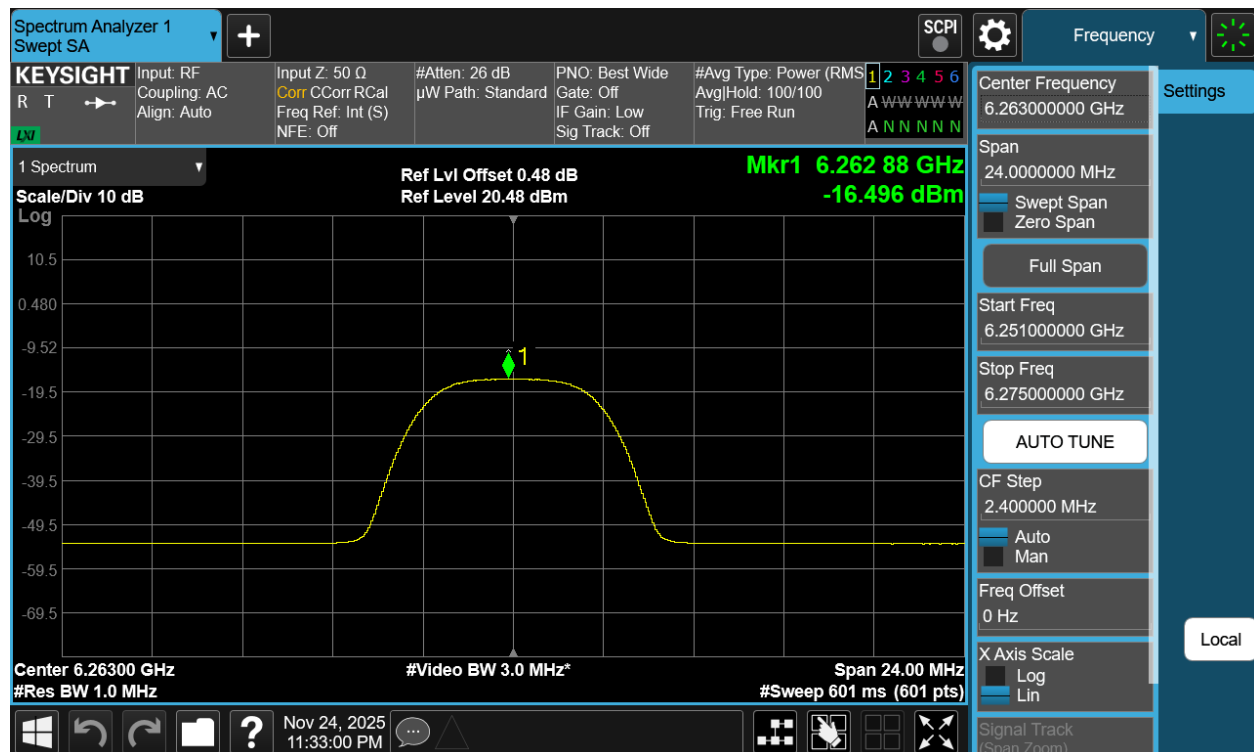


Plot 7-197. PSD TxBF Diversity Antenna 1b (NB UNII XHDRPM6, iPA – 6263MHz)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-198. PSD TxBF Diversity Antenna 3c (NB UNII HDRPM16, ePA – 6263MHz)

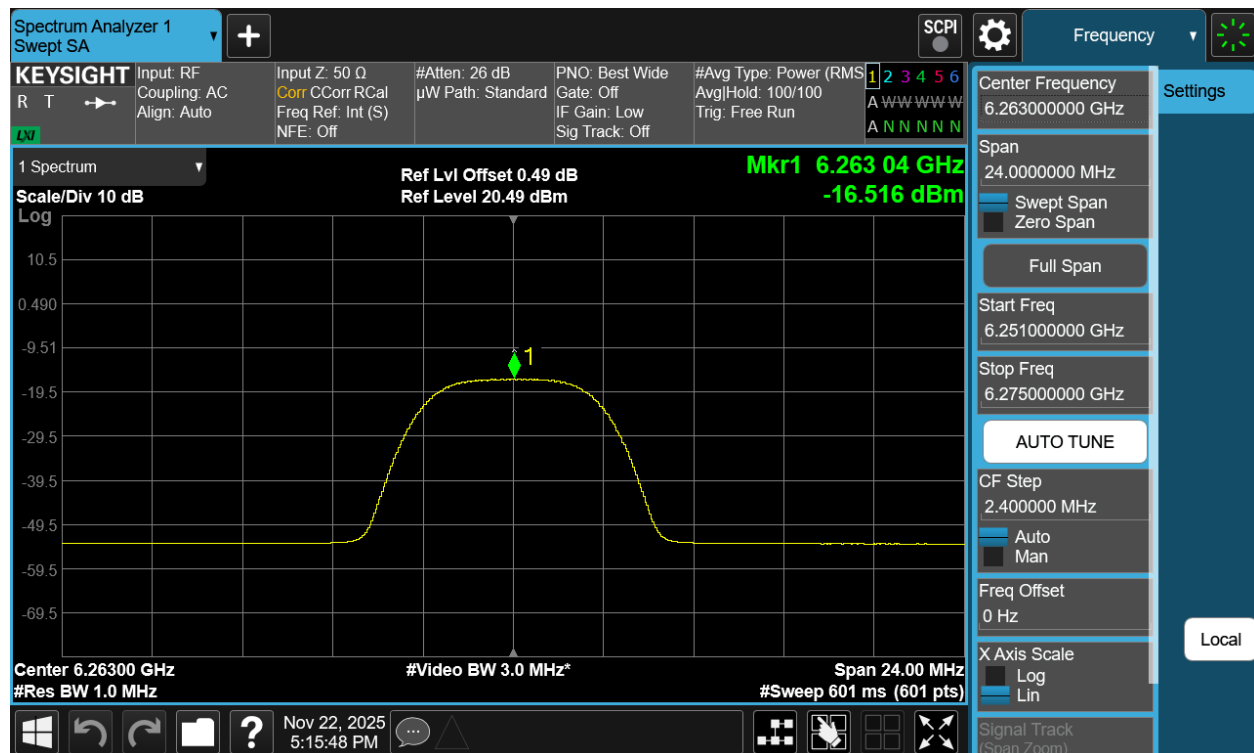


Plot 7-199. PSD TxBF Diversity Antenna 1b (NB UNII HDRPM16, ePA – 6263MHz)

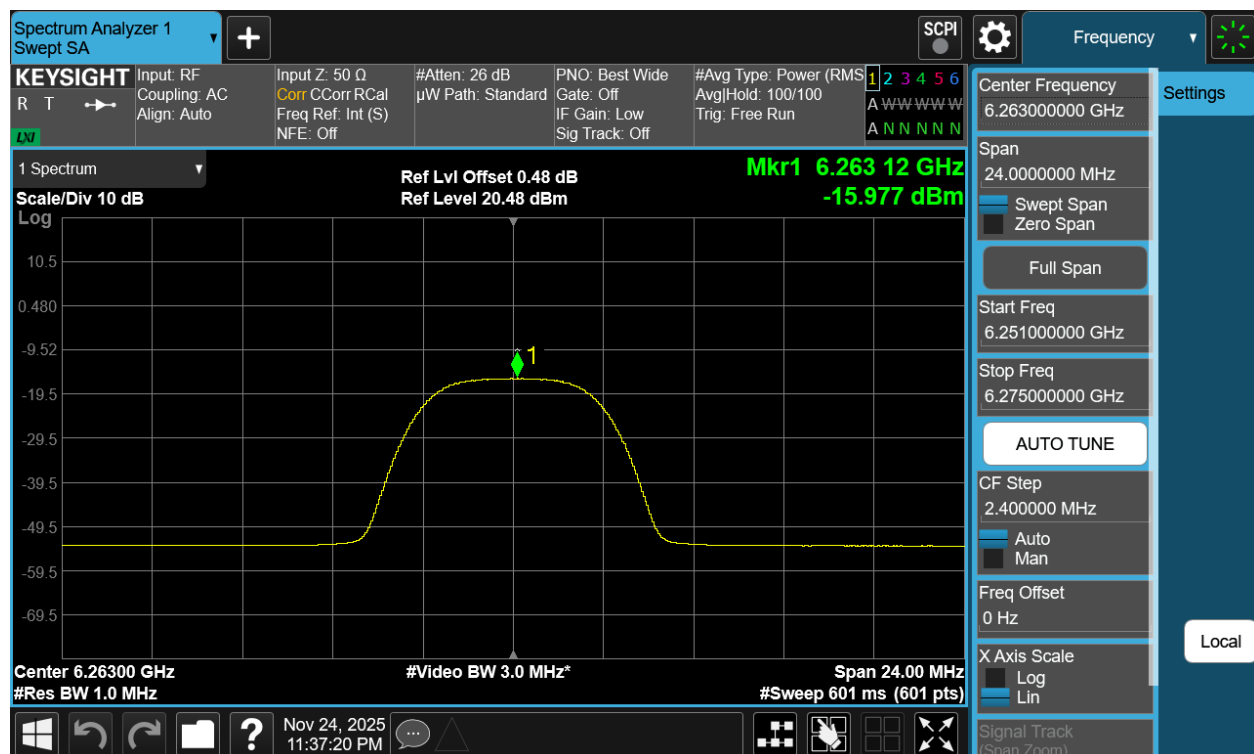
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 136 of 331

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Plot 7-200. PSD TxBF Diversity Antenna 3c (NB UNII HDRPM16, iPA – 6263MHz)

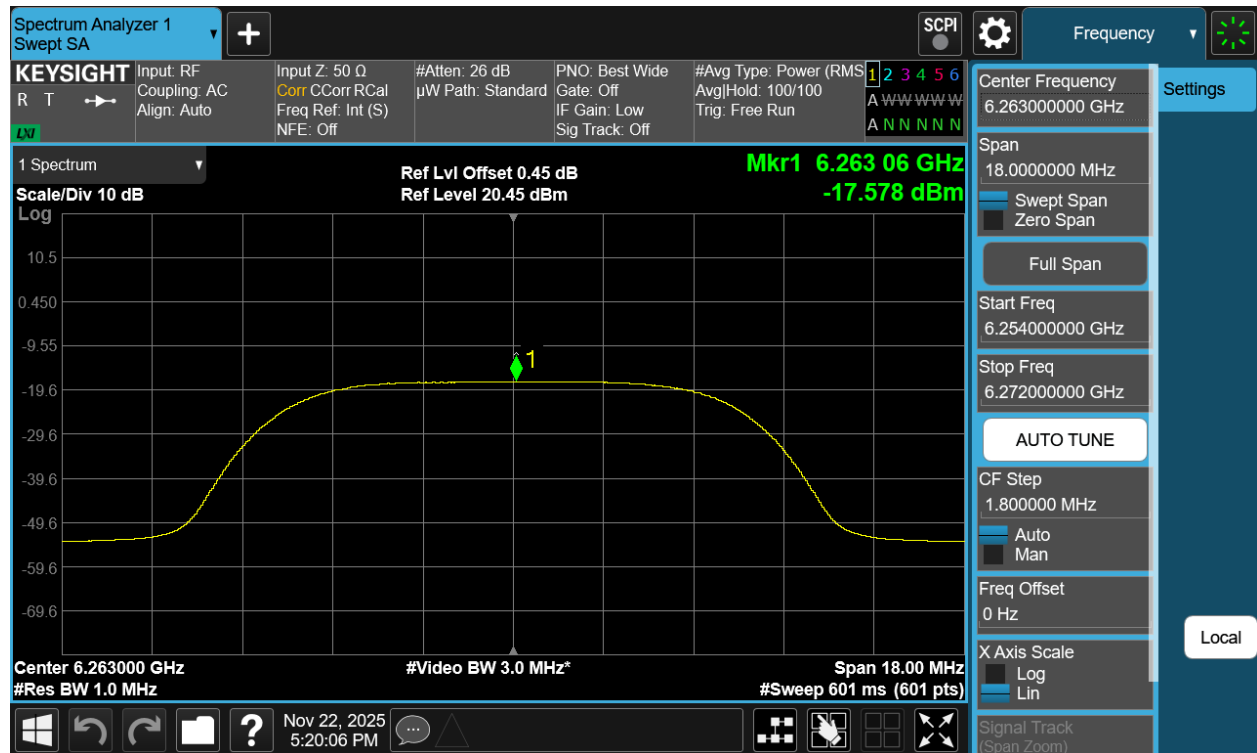


Plot 7-201. PSD TxBF Diversity Antenna 1b (NB UNII HDRPM16, iPA – 6263MHz)

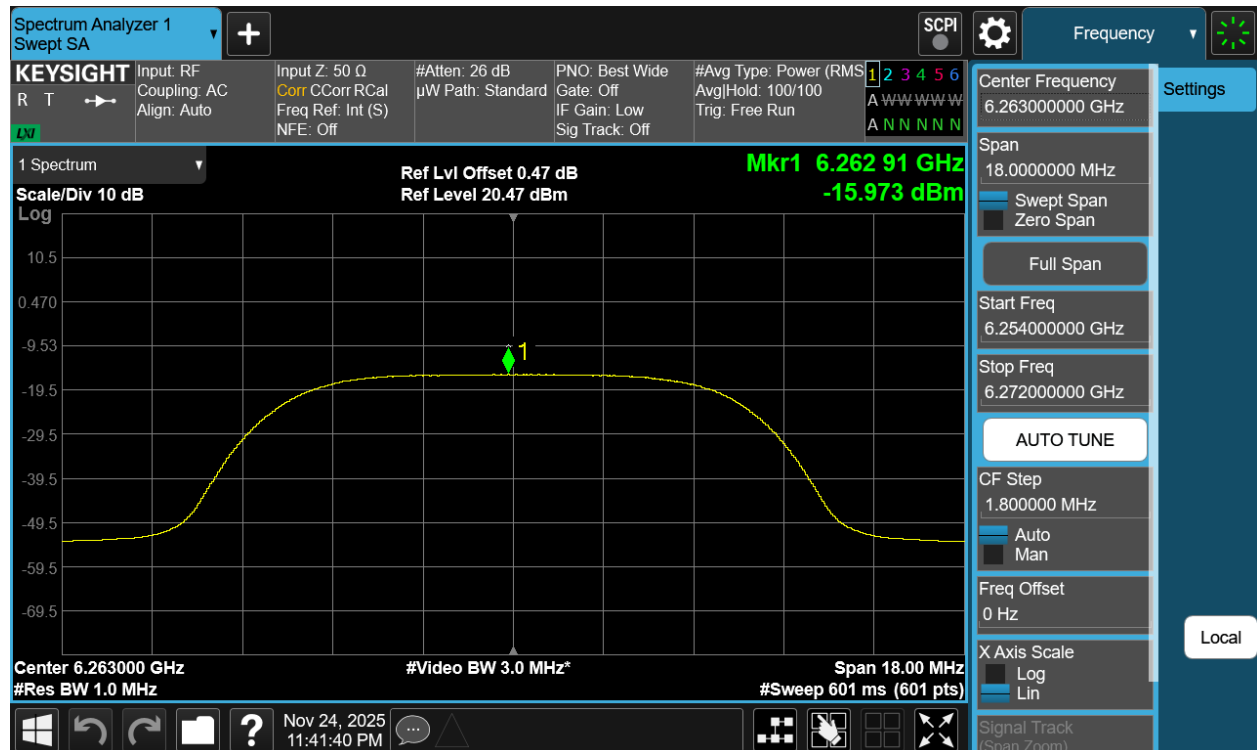
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-202. PSD TxBF Diversity Antenna 3c (NB UNII HDRPL12, ePA – 6263MHz)

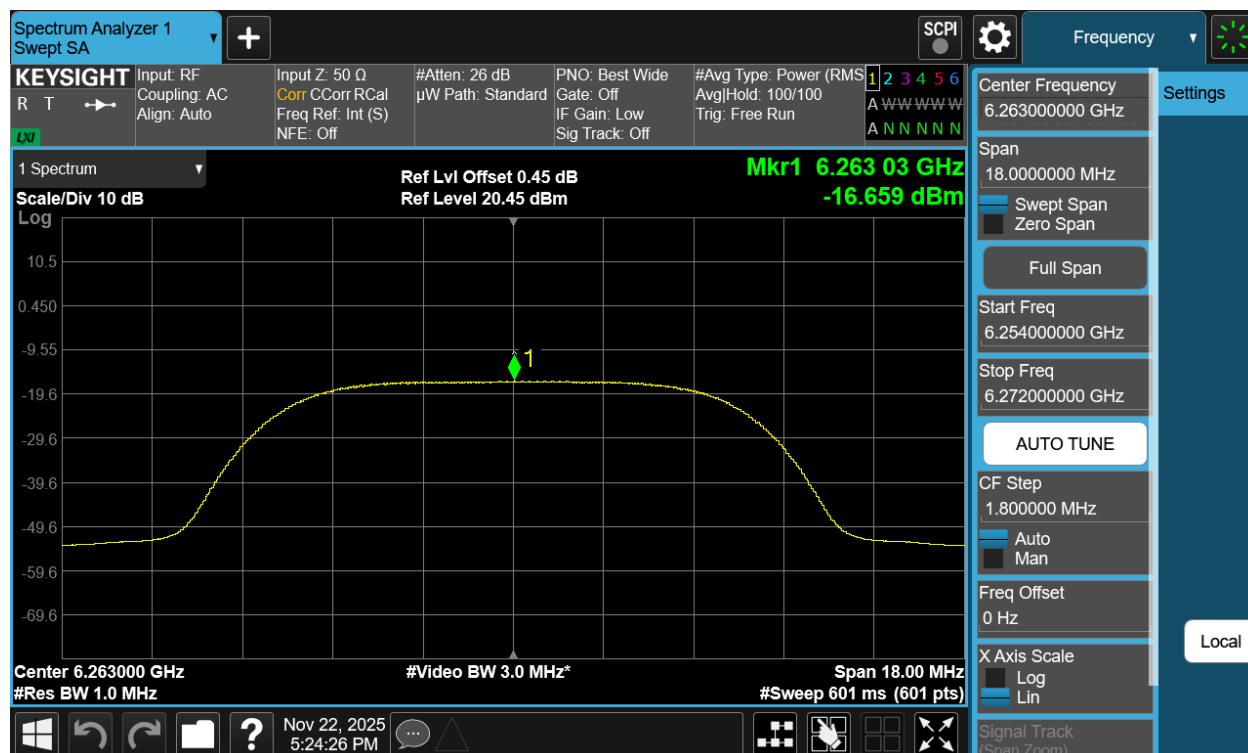


Plot 7-203. PSD TxBF Diversity Antenna 1b (NB UNII HDRPL12, ePA – 6263MHz)

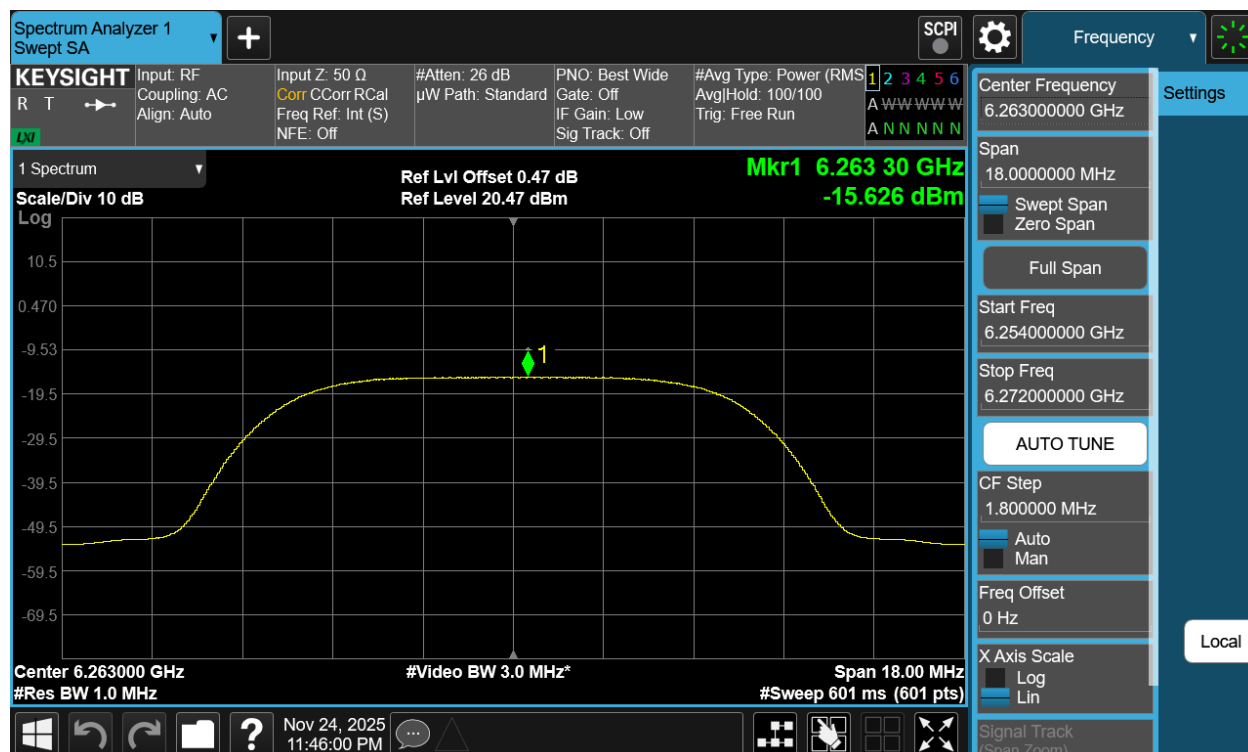
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-204. PSD TxBF Diversity Antenna 3c (NB UNII HDRPL12, iPA – 6263MHz)

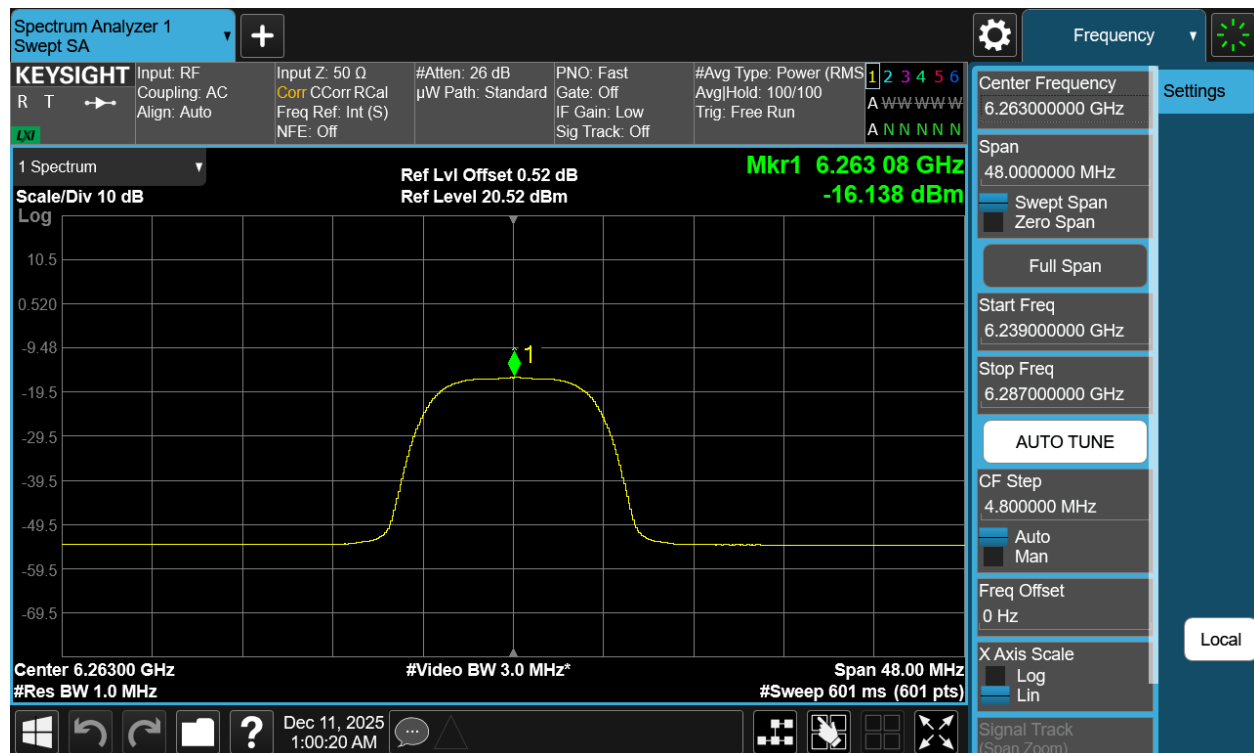


Plot 7-205. PSD TxBF Diversity Antenna 1b (NB UNII HDRPL12, iPA – 6263MHz)

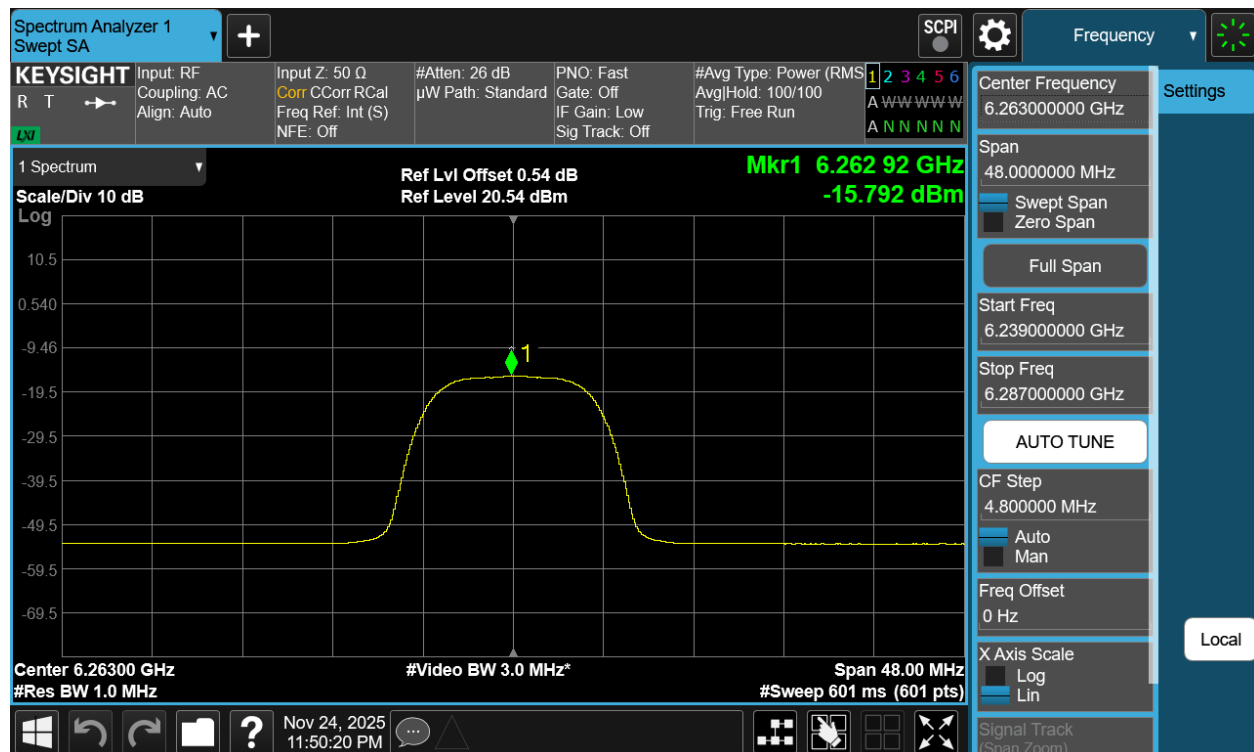
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-206. PSD TxBF Diversity Antenna 3c (NB UNII HDRPL32, ePA – 6263MHz)

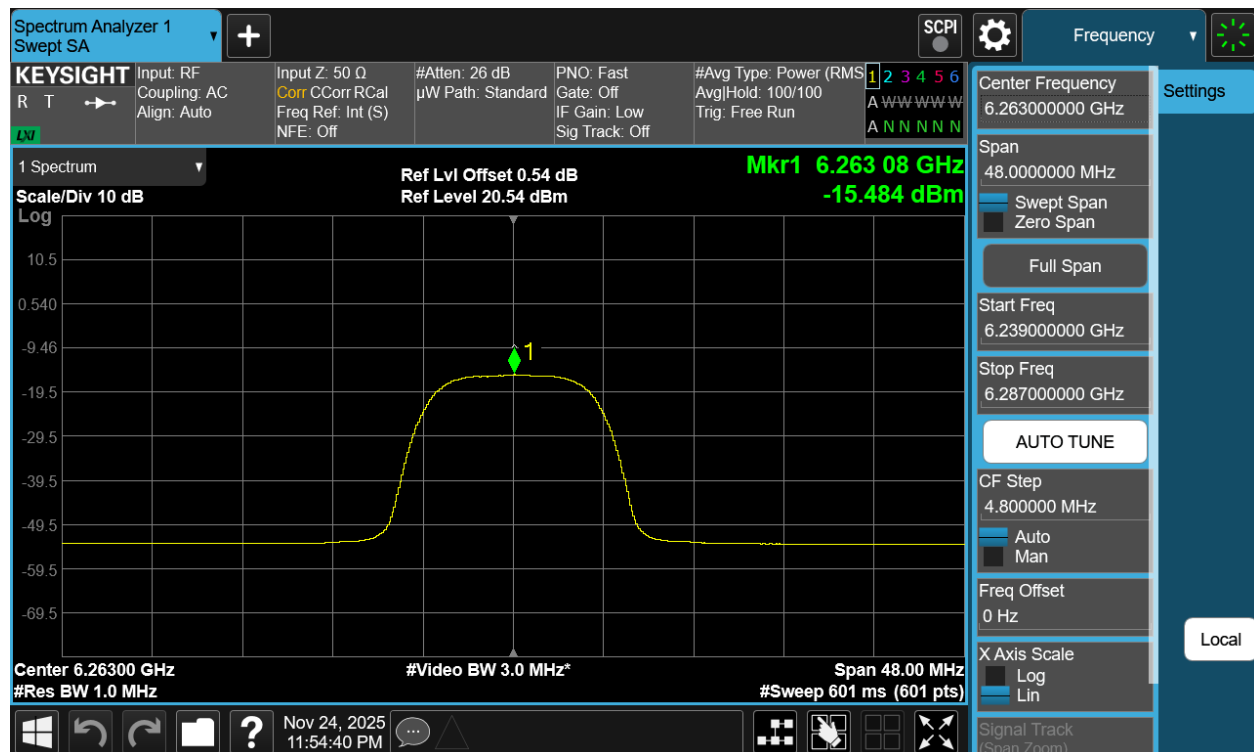
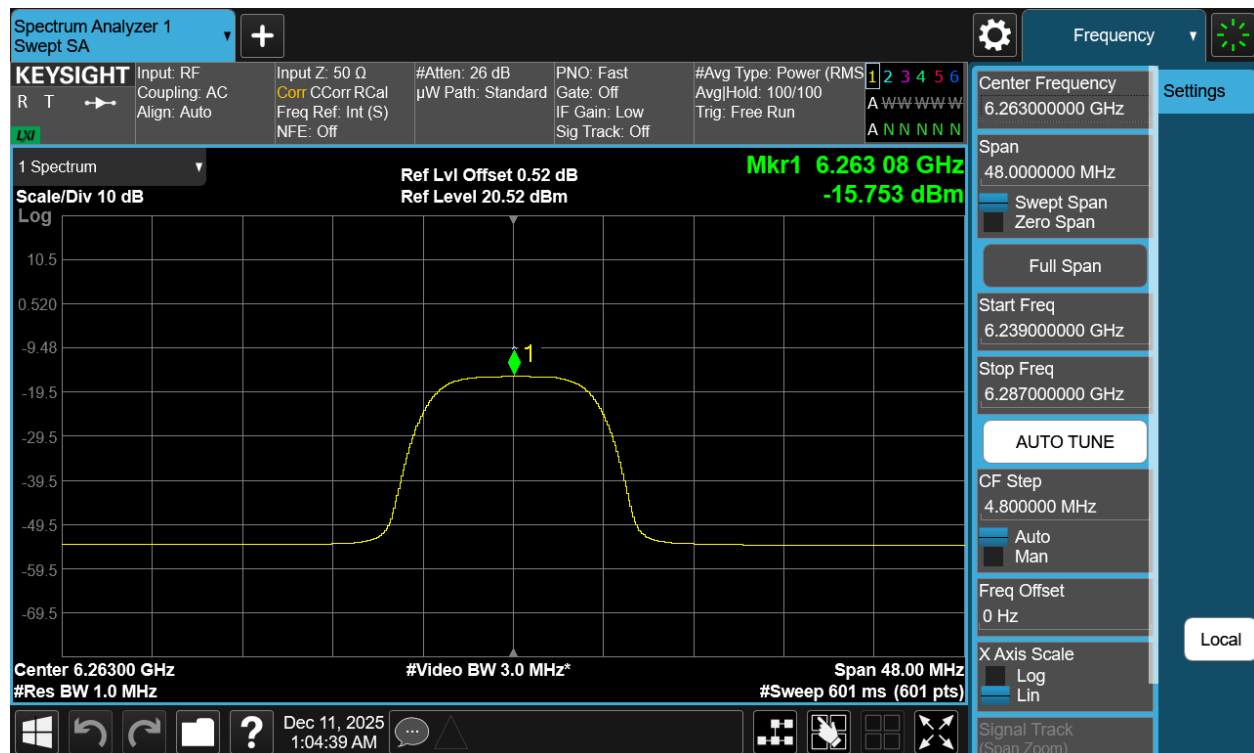


Plot 7-207. PSD TxBF Diversity Antenna 1b (NB UNII HDRPL32, ePA – 6263MHz)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-210. PSD Tx BF Diversity Antenna 3c (NB UNII HDT2, ePA – 6263MHz)



Plot 7-211. PSD Tx BF Diversity Antenna 1b (NB UNII HDT2, ePA – 6263MHz)

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Plot 7-214. PSD Tx BF Diversity Antenna 3c (NB UNII HDT4, ePA – 6263MHz)



Plot 7-215. PSD Tx BF Diversity Antenna 1b (NB UNII HDT4, ePA – 6263MHz)

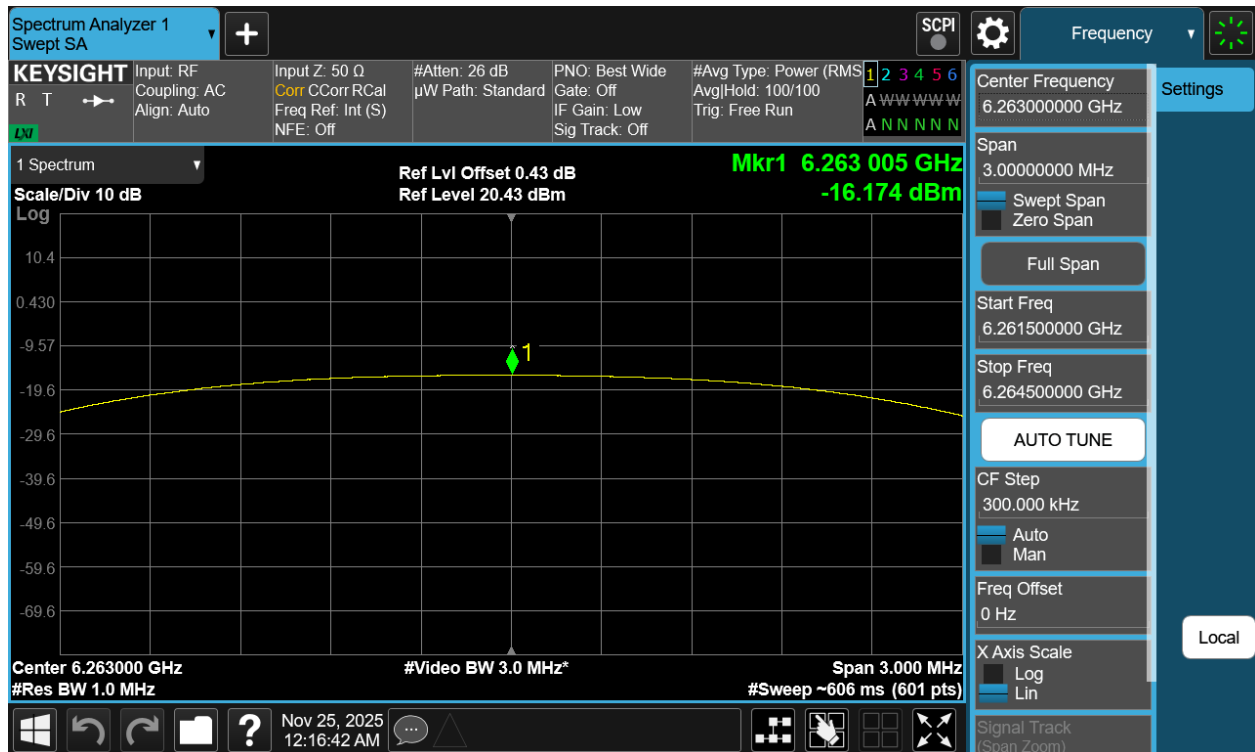
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-220. PSD Tx BF Diversity Antenna 3c (NB UNII HDT6, iPA – 6263MHz)



Plot 7-221. PSD Tx BF Diversity Antenna 1b (NB UNII HDT6, iPA – 6263MHz)

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Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 v02r01 Section E1), the conducted powers at and were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Sample TxBF Calculation:

At 6106MHz, the average conducted output power was measured to be -13.79 dBm for Antenna 3c and -15.36 dBm for Antenna 3a.

$$\text{Antenna 3c} + \text{Antenna 3a} = \text{TxBF}$$

$$(-13.79 \text{ dBm} + -15.36 \text{ dBm}) = (0.042 \text{ mW} + 0.029 \text{ mW}) = 0.071 \text{ mW} = -11.50 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 6106MHz for NB UNII BDR, the average conducted power was calculated to be -11.50 dBm with directional gain of 3.82 dBi.

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

$$-11.50 \text{ dBm} + 3.82 \text{ dBi} = -7.68 \text{ dBm}$$

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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: In-Band Emission 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 In-Band Emission (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 In-Band Emission must be reduced below the peak In-Band Emission (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 modulation and power schemes were investigated and only the worst case is reported.
2. Low, mid, and high channels were tested, and only mid channel plots have been reported.

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7.5.1 Antenna 3c In-Band Emission Measurements (U-NII-5)

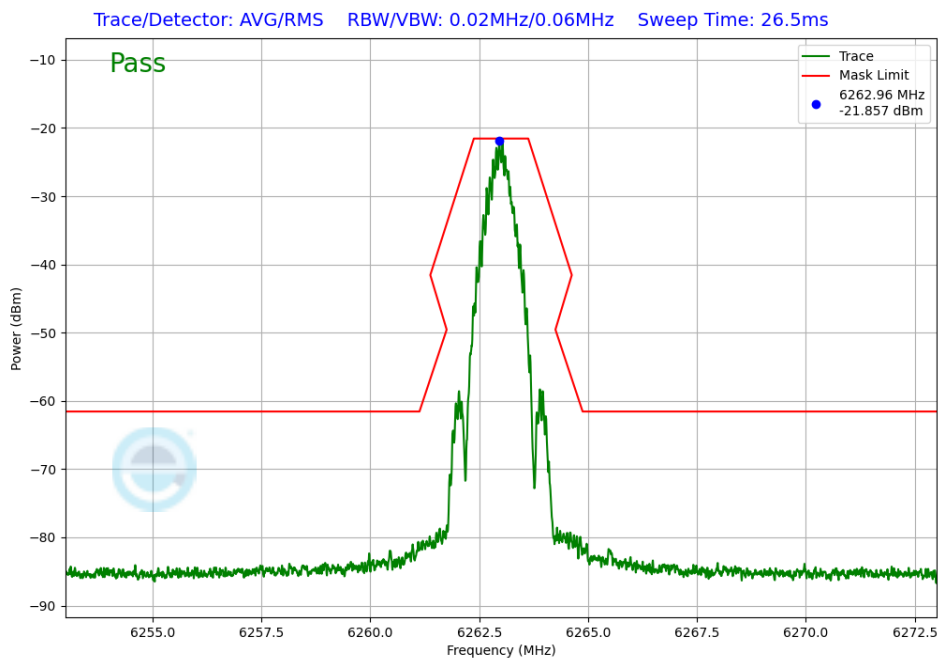
Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Antenna 3c In-Band Emission
6106	1.0	NB UNII BDR	ePA	Pass
6263	1.0	NB UNII BDR	ePA	Pass
6420	1.0	NB UNII BDR	ePA	Pass
6106	1.0	NB UNII BDR	IPA	Pass
6263	1.0	NB UNII BDR	IPA	Pass
6420	1.0	NB UNII BDR	IPA	Pass
6106	1.0	NB UNII LE1M	ePA	Pass
6263	1.0	NB UNII LE1M	ePA	Pass
6420	1.0	NB UNII LE1M	ePA	Pass
6106	1.0	NB UNII LE1M	IPA	Pass
6263	1.0	NB UNII LE1M	IPA	Pass
6420	1.0	NB UNII LE1M	IPA	Pass
6106	2.0	NB UNII LE2M	ePA	Pass
6263	2.0	NB UNII LE2M	ePA	Pass
6420	2.0	NB UNII LE2M	ePA	Pass
6106	2.0	NB UNII LE2M	IPA	Pass
6263	2.0	NB UNII LE2M	IPA	Pass
6420	2.0	NB UNII LE2M	IPA	Pass
6106	4.0	NB UNII HDR4	ePA	Pass
6263	4.0	NB UNII HDR4	ePA	Pass
6420	4.0	NB UNII HDR4	ePA	Pass
6106	4.0	NB UNII HDR4	IPA	Pass
6263	4.0	NB UNII HDR4	IPA	Pass
6420	4.0	NB UNII HDR4	IPA	Pass
6107	8.0	NB UNII HDR8	ePA	Pass
6263	8.0	NB UNII HDR8	ePA	Pass
6420	8.0	NB UNII HDR8	ePA	Pass
6107	8.0	NB UNII HDR8	IPA	Pass
6263	8.0	NB UNII HDR8	IPA	Pass
6420	8.0	NB UNII HDR8	IPA	Pass
6106	2.0	NB UNII HDRPS2	ePA	Pass
6263	2.0	NB UNII HDRPS2	ePA	Pass
6420	2.0	NB UNII HDRPS2	ePA	Pass
6106	2.0	NB UNII HDRPS2	IPA	Pass
6263	2.0	NB UNII HDRPS2	IPA	Pass
6420	2.0	NB UNII HDRPS2	IPA	Pass
6107	6.0	NB UNII XHDRPM6	ePA	Pass
6263	6.0	NB UNII XHDRPM6	ePA	Pass
6420	6.0	NB UNII XHDRPM6	ePA	Pass
6107	6.0	NB UNII XHDRPM6	IPA	Pass
6263	6.0	NB UNII XHDRPM6	IPA	Pass
6420	6.0	NB UNII XHDRPM6	IPA	Pass
6107	16.0	NB UNII HDRPM16	ePA	Pass
6263	16.0	NB UNII HDRPM16	ePA	Pass
6420	16.0	NB UNII HDRPM16	ePA	Pass
6107	16.0	NB UNII HDRPM16	IPA	Pass
6263	16.0	NB UNII HDRPM16	IPA	Pass
6420	16.0	NB UNII HDRPM16	IPA	Pass
6109	12.0	NB UNII HDRPL12	ePA	Pass
6263	12.0	NB UNII HDRPL12	ePA	Pass
6420	12.0	NB UNII HDRPL12	ePA	Pass
6109	12.0	NB UNII HDRPL12	IPA	Pass
6263	12.0	NB UNII HDRPL12	IPA	Pass
6420	12.0	NB UNII HDRPL12	IPA	Pass
6109	32.0	NB UNII HDRPL32	ePA	Pass
6263	32.0	NB UNII HDRPL32	ePA	Pass
6420	32.0	NB UNII HDRPL32	ePA	Pass
6109	32.0	NB UNII HDRPL32	IPA	Pass
6263	32.0	NB UNII HDRPL32	IPA	Pass
6420	32.0	NB UNII HDRPL32	IPA	Pass
6106	2.0	NB UNII HDT2	ePA	Pass
6263	2.0	NB UNII HDT2	ePA	Pass
6420	2.0	NB UNII HDT2	ePA	Pass
6106	2.0	NB UNII HDT2	IPA	Pass
6263	2.0	NB UNII HDT2	IPA	Pass
6420	2.0	NB UNII HDT2	IPA	Pass
6106	4.0	NB UNII HDT4	ePA	Pass
6263	4.0	NB UNII HDT4	ePA	Pass
6420	4.0	NB UNII HDT4	ePA	Pass
6106	4.0	NB UNII HDT4	IPA	Pass
6263	4.0	NB UNII HDT4	IPA	Pass
6420	4.0	NB UNII HDT4	IPA	Pass
6106	6.0	NB UNII HDT6	ePA	Pass
6263	6.0	NB UNII HDT6	ePA	Pass
6420	6.0	NB UNII HDT6	ePA	Pass
6106	6.0	NB UNII HDT6	IPA	Pass
6263	6.0	NB UNII HDT6	IPA	Pass
6420	6.0	NB UNII HDT6	IPA	Pass

Table 7-15. In-Band Emission Measurements Antenna 3c

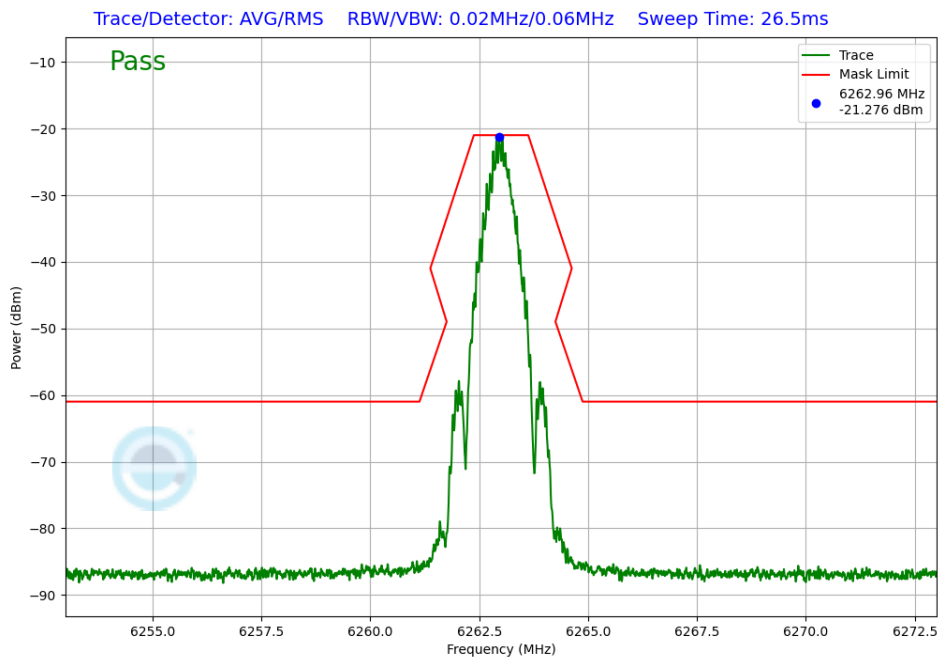
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 151 of 331

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Plot 7-222. In-Band Emission Antenna 3c (NB UNII BDR, ePA – 6263MHz)

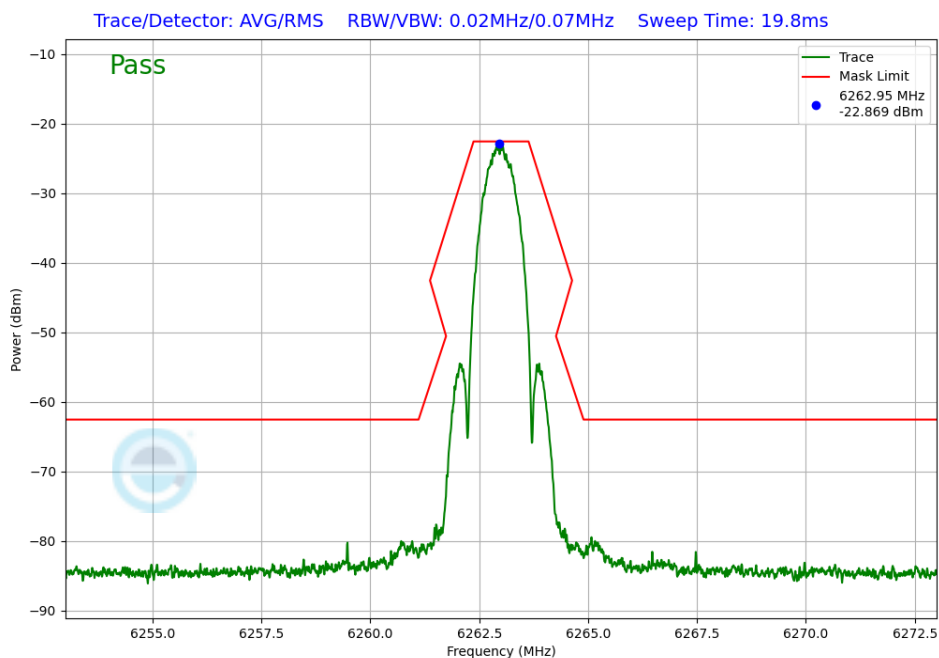


Plot 7-223. In-Band Emission Antenna 3c (NB UNII BDR, iPA – 6263MHz)

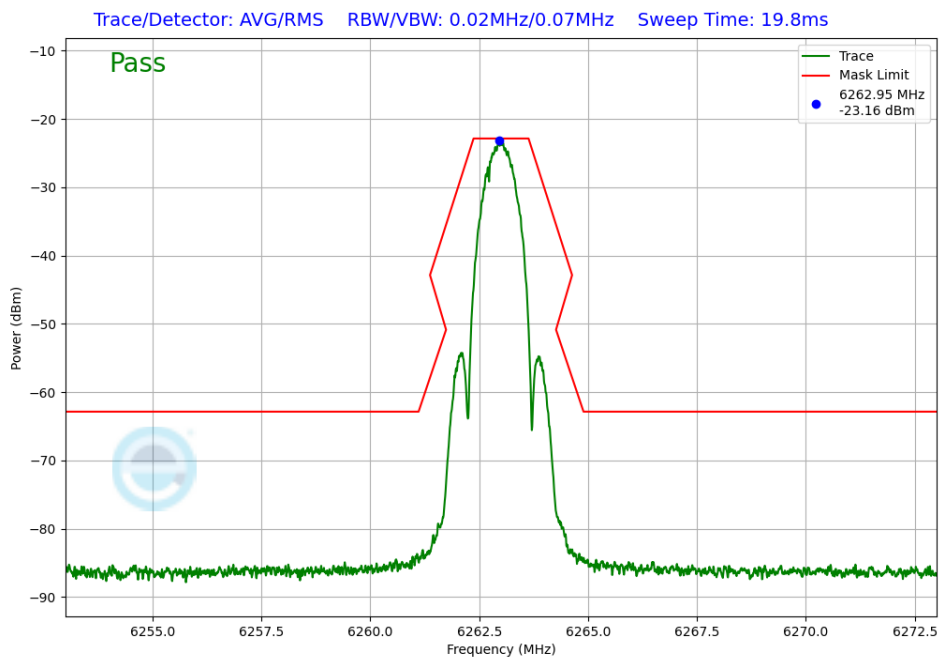
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 152 of 331

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Plot 7-224. In-Band Emission Antenna 3c (NB UNII LE1M, ePA – 6263MHz)

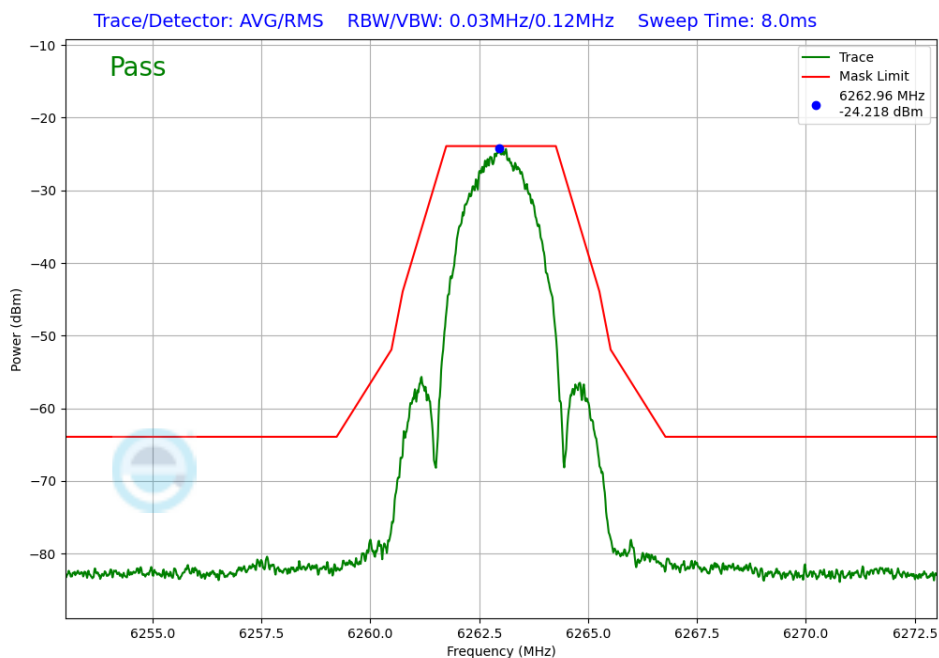


Plot 7-225. In-Band Emission Antenna 3c (NB UNII LE1M, iPA – 6263MHz)

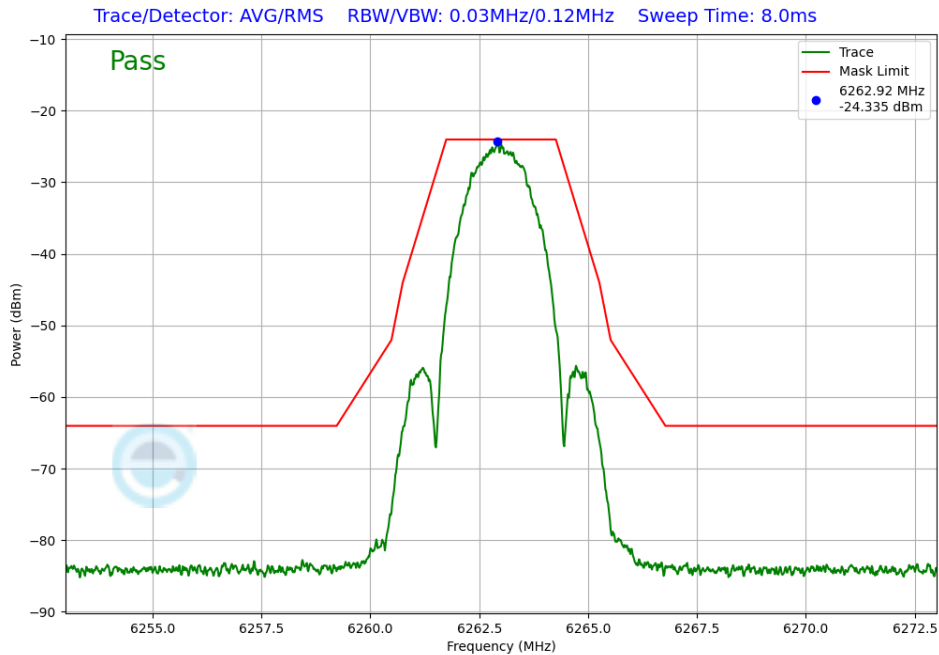
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 153 of 331

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Plot 7-226. In-Band Emission Antenna 3c (NB UNII LE2M, ePA – 6263MHz)

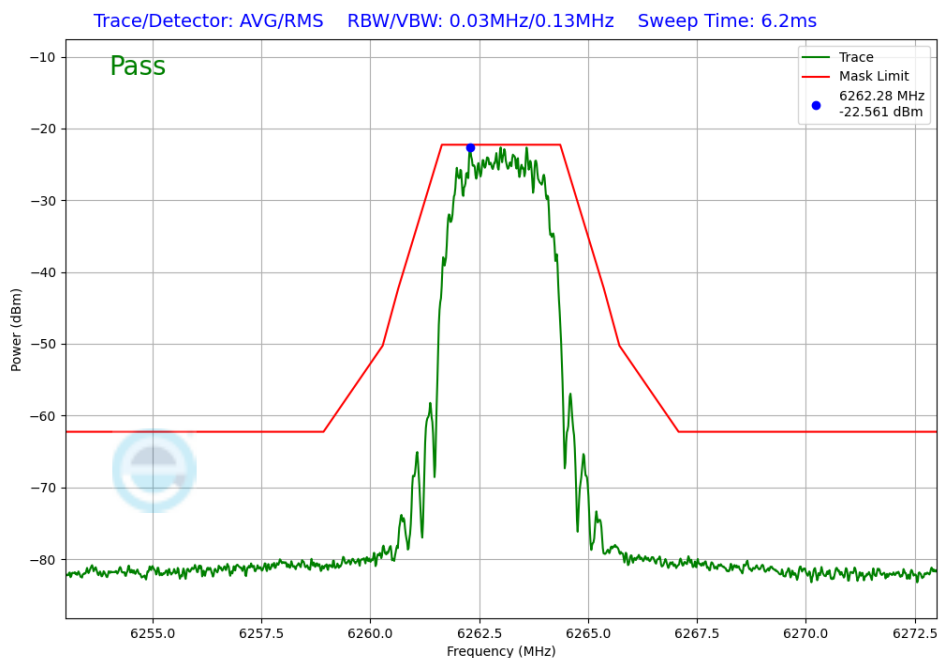


Plot 7-227. In-Band Emission Antenna 3c (NB UNII LE2M, iPA – 6263MHz)

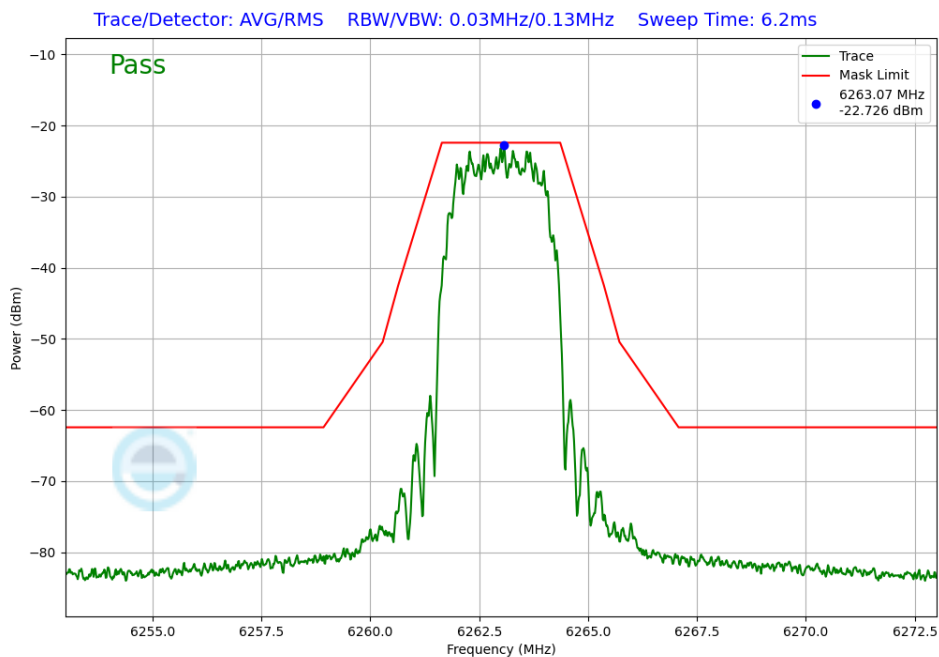
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 154 of 331

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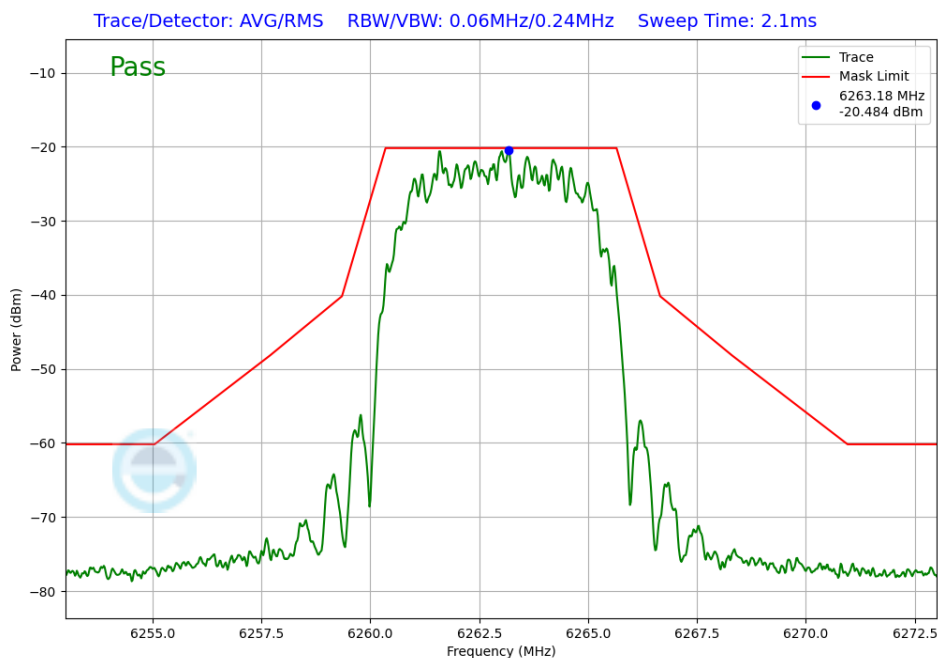
Plot 7-228. In-Band Emission Antenna 3c (NB UNII HDR4, ePA – 6263MHz)



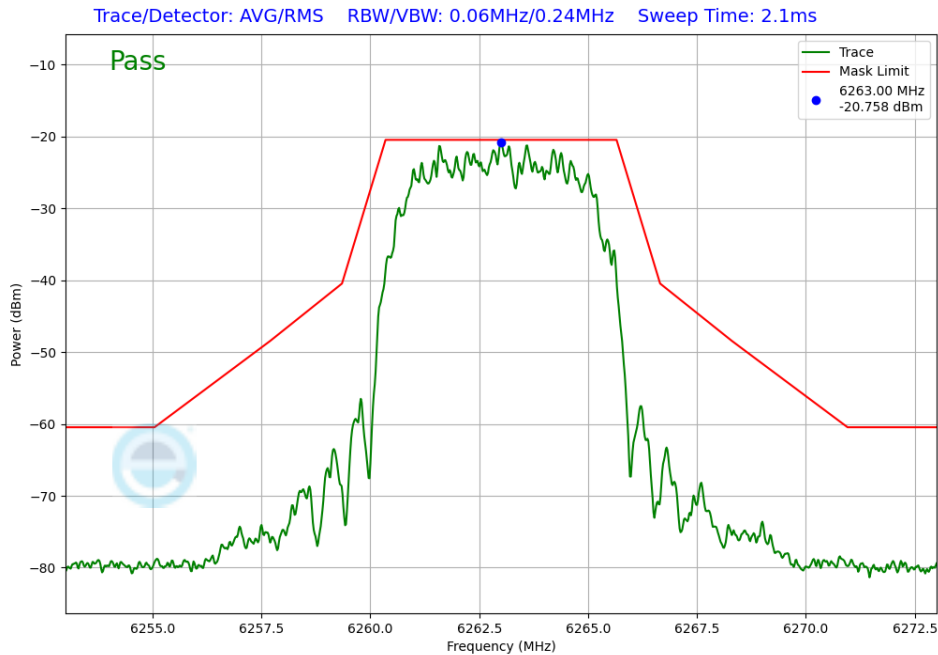
Plot 7-229. In-Band Emission Antenna 3c (NB UNII HDR4, iPA – 6263MHz)

FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 155 of 331

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Plot 7-230. In-Band Emission Antenna 3c (NB UNII HDR8, ePA – 6263MHz)

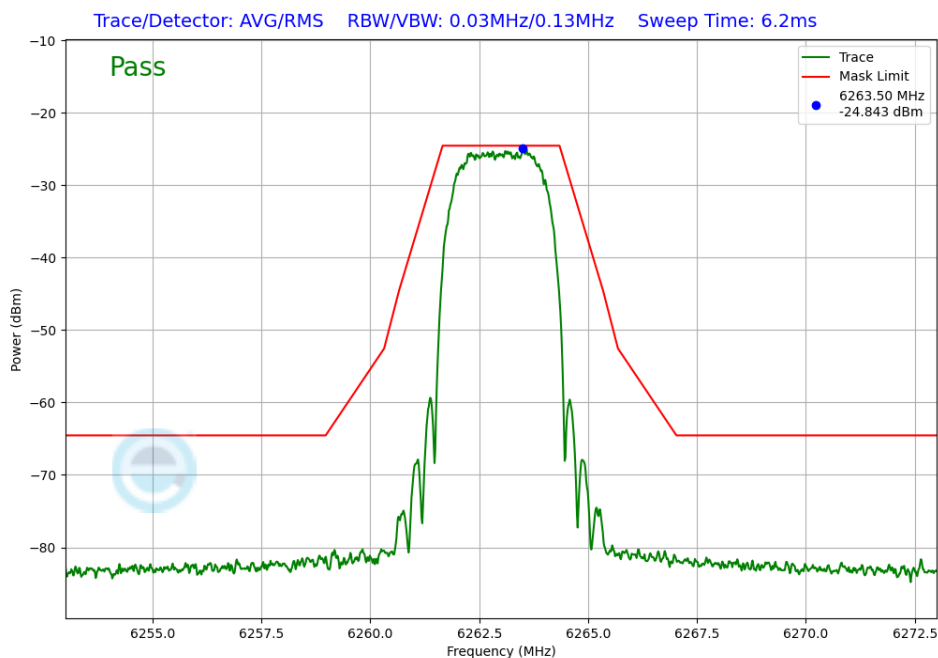


Plot 7-231. In-Band Emission Antenna 3c (NB UNII HDR8, iPA – 6263MHz)

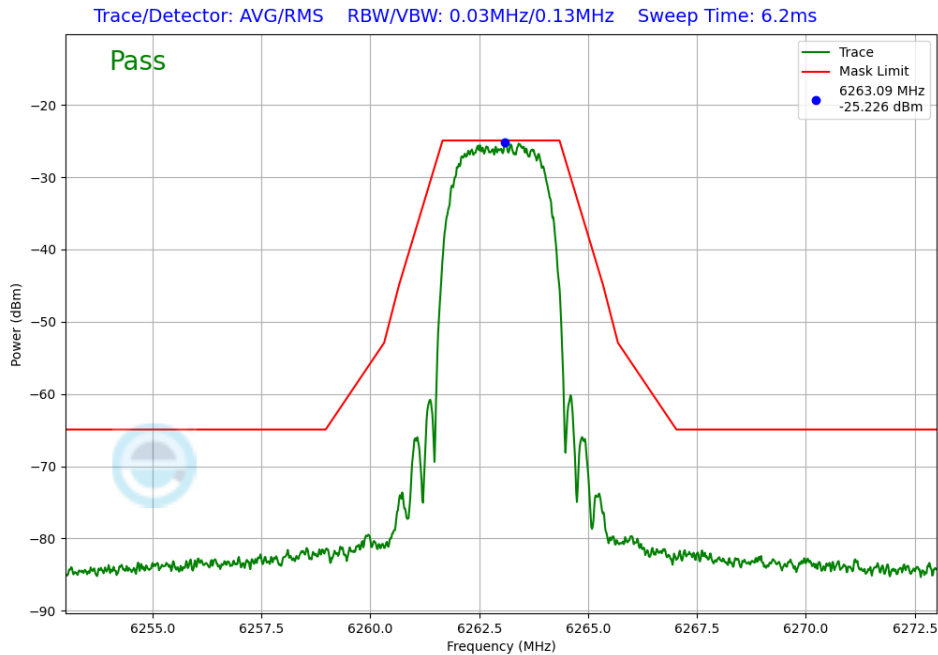
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 156 of 331

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Plot 7-232. In-Band Emission Antenna 3c (NB UNII HDRPS2, ePA – 6263MHz)

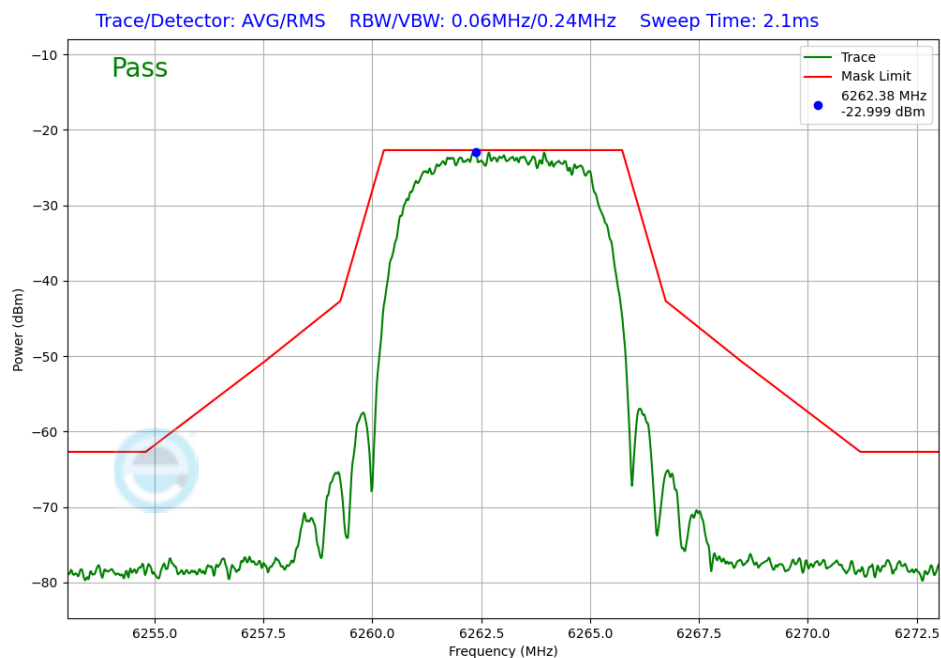


Plot 7-233. In-Band Emission Antenna 3c (NB UNII HDRPS2, iPA – 6263MHz)

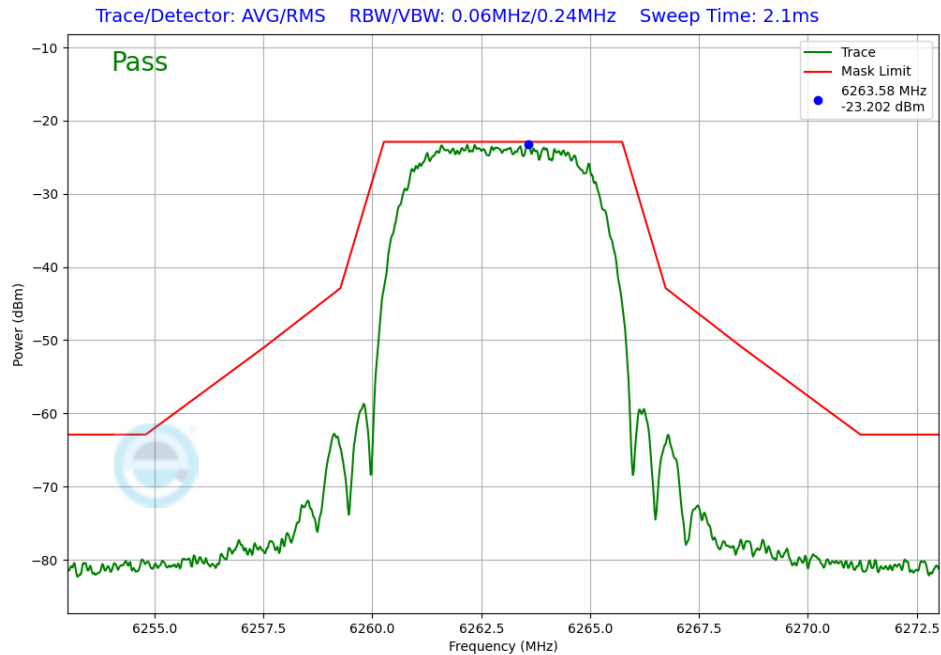
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 157 of 331

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Plot 7-234. In-Band Emission Antenna 3c (NB UNII XHDRPM6, ePA – 6263MHz)

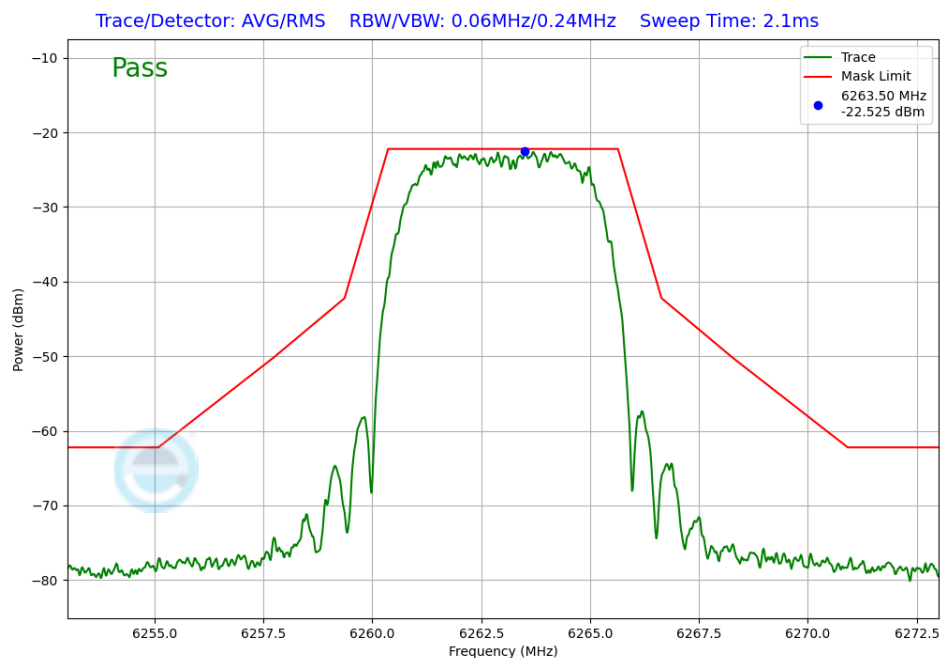


Plot 7-235. In-Band Emission Antenna 3c (NB UNII XHDRPM6, iPA – 6263MHz)

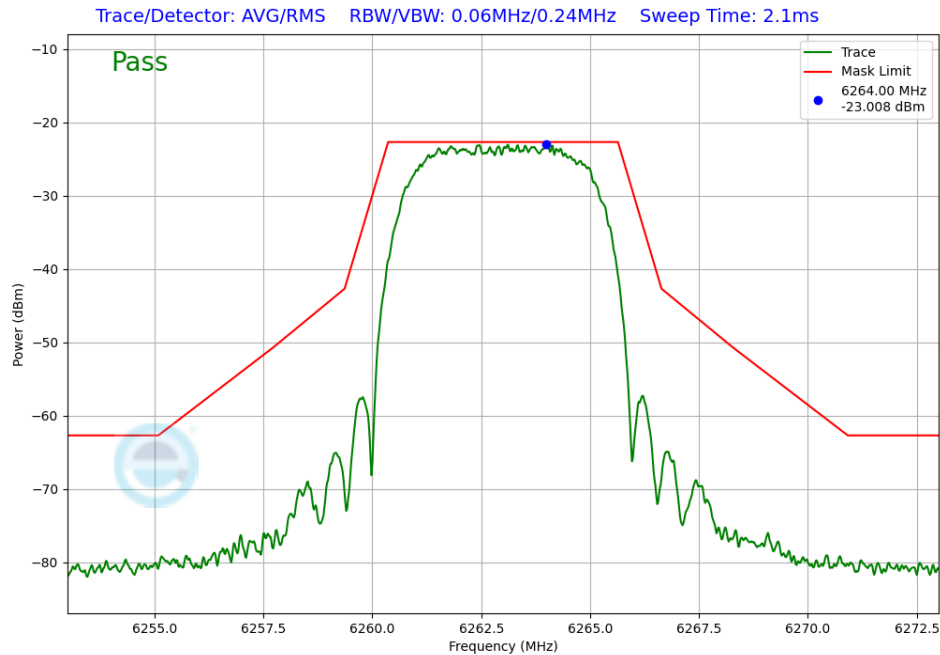
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 158 of 331

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Plot 7-236. In-Band Emission Antenna 3c (NB UNII HDRPM16, ePA – 6263MHz)

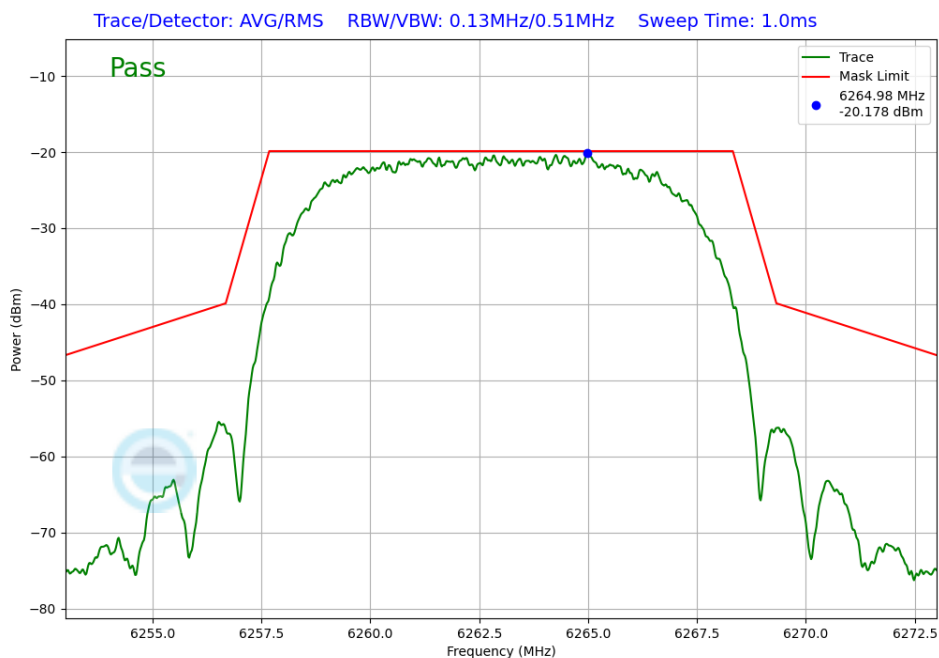


Plot 7-237. In-Band Emission Antenna 3c (NB UNII HDRPM16, iPA – 6263MHz)

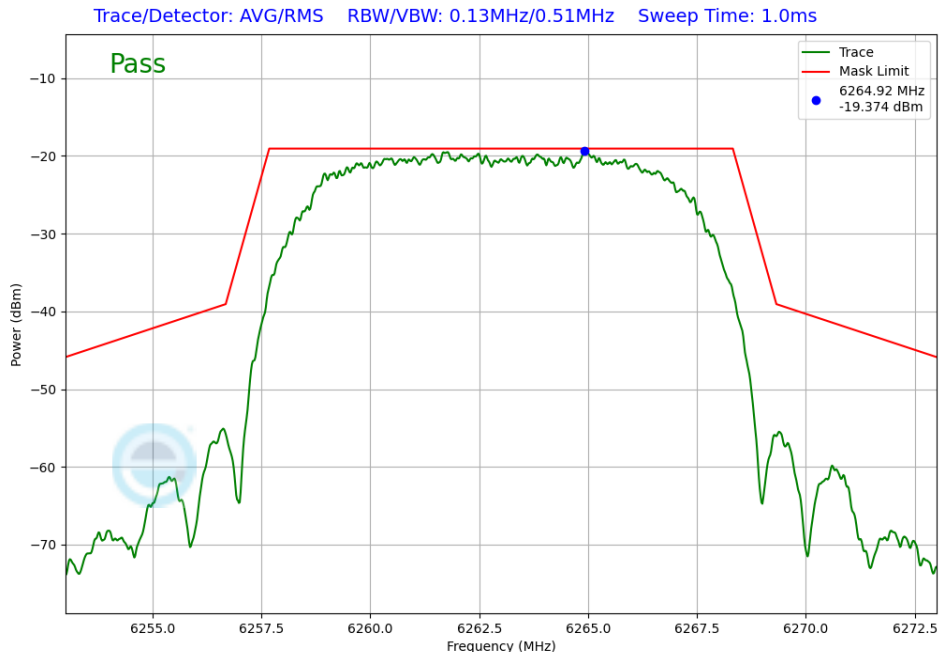
FCC ID: BCGA3460 IC: 579C-A3460			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device		Page 159 of 331

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Plot 7-238. In-Band Emission Antenna 3c (NB UNII HDRPL12, ePA – 6263MHz)

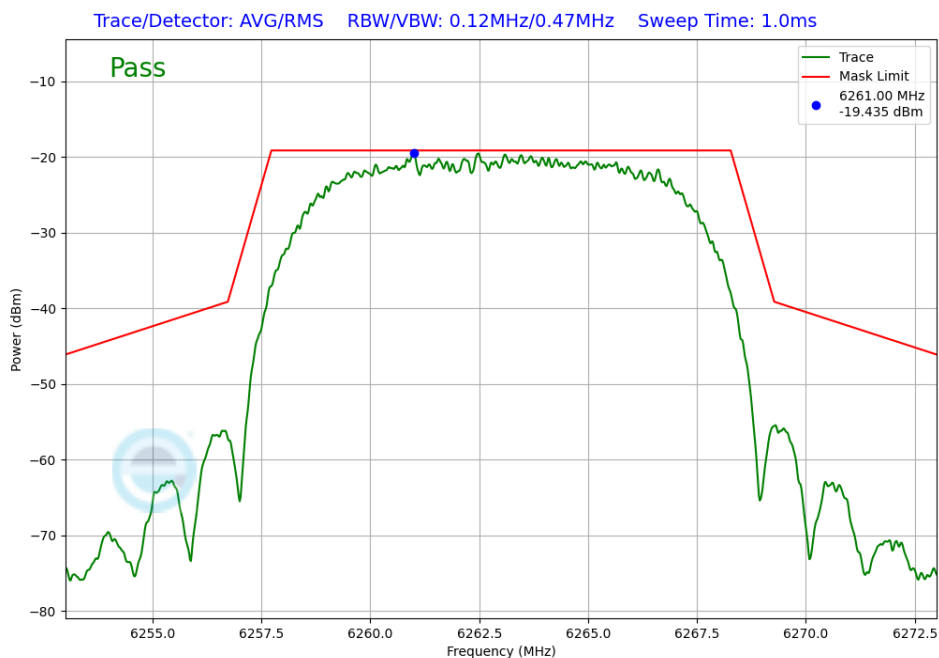


Plot 7-239. In-Band Emission Antenna 3c (NB UNII HDRPL12, iPA – 6263MHz)

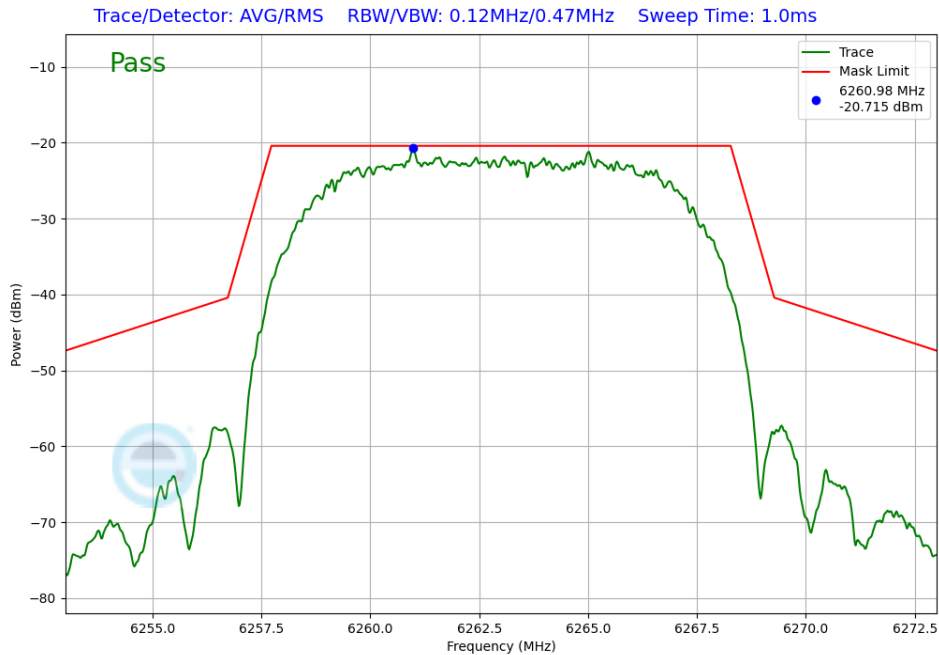
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 160 of 331

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Plot 7-240. In-Band Emission Antenna 3c (NB UNII HDRPL32, ePA – 6263MHz)



Plot 7-241. In-Band Emission Antenna 3c (NB UNII HDRPL32, iPA – 6263MHz)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-20-R2.BCG	Test Dates: 09/15/2025 - 12/3/2025	EUT Type: Tablet Device	Page 161 of 331

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