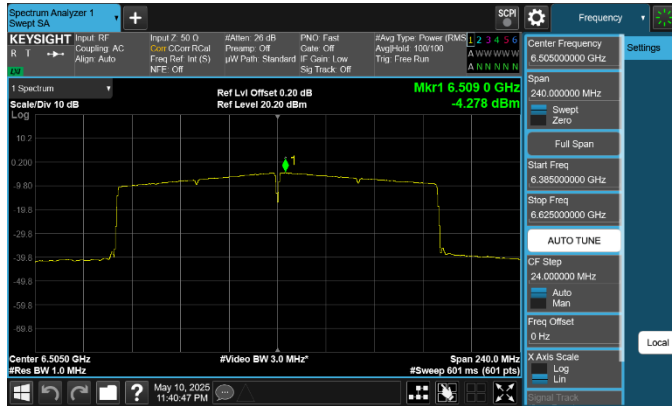
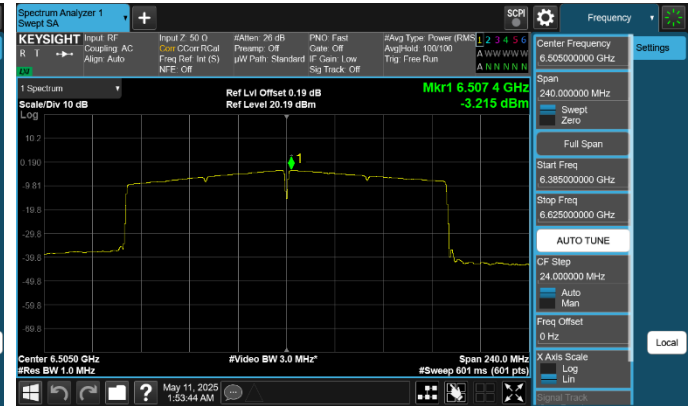




Plot 7-127. Power Spectral Density Plot CDD Antenna 0 (160MHz 802.11ax (UNII Band 6) – Ch. 111)

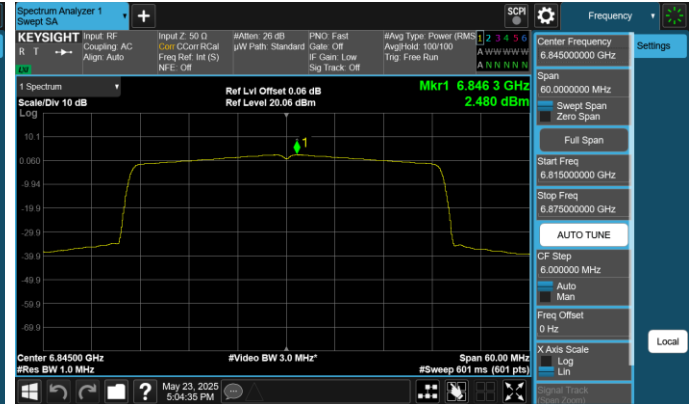


Plot 7-128. Power Spectral Density Plot CDD Antenna 1 (160MHz 802.11ax (UNII Band 6) – Ch. 111)

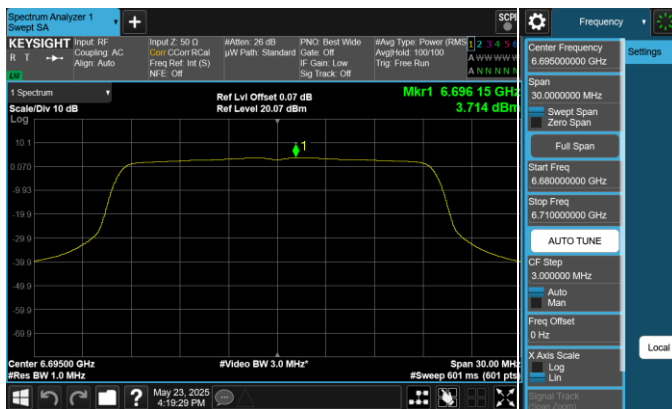
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 73 of 171



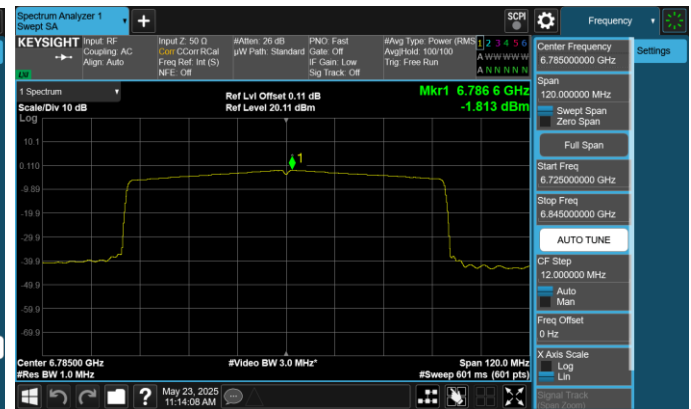
Plot 7-129. Power Spectral Density Plot CDD Antenna 0 (20MHz 802.11ax (UNII Band 7) – Ch. 149)



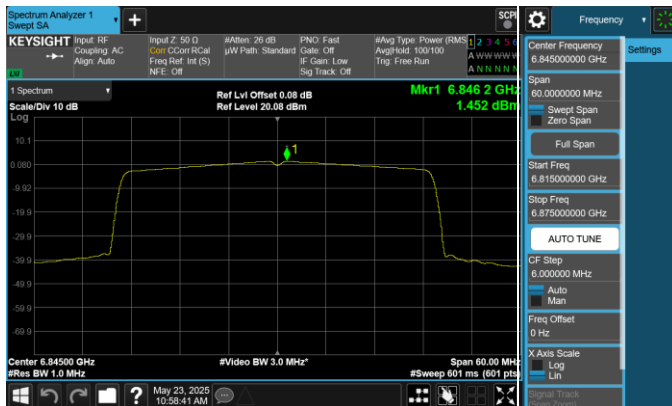
Plot 7-132. Power Spectral Density Plot CDD Antenna 1 (40MHz 802.11ax (UNII Band 7) – Ch. 179)



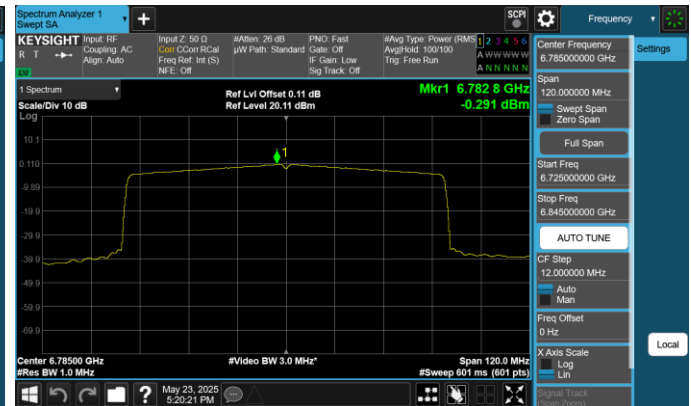
Plot 7-130. Power Spectral Density Plot CDD Antenna 1 (20MHz 802.11ax (UNII Band 7) – Ch. 149)



Plot 7-133. Power Spectral Density Plot CDD Antenna 0 (80MHz 802.11ax (UNII Band 7) – Ch. 167)

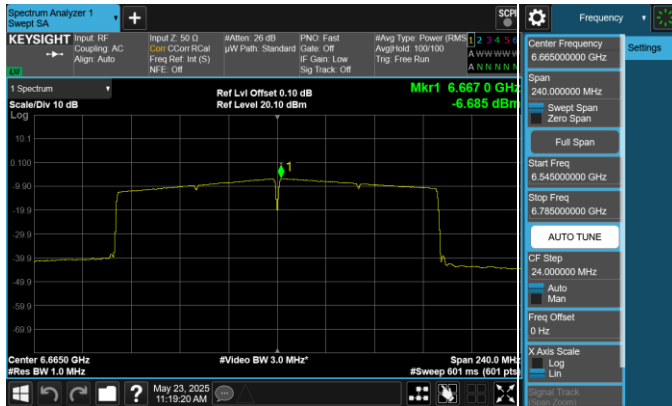


Plot 7-131. Power Spectral Density Plot CDD Antenna 0 (40MHz 802.11ax (UNII Band 7) – Ch. 179)

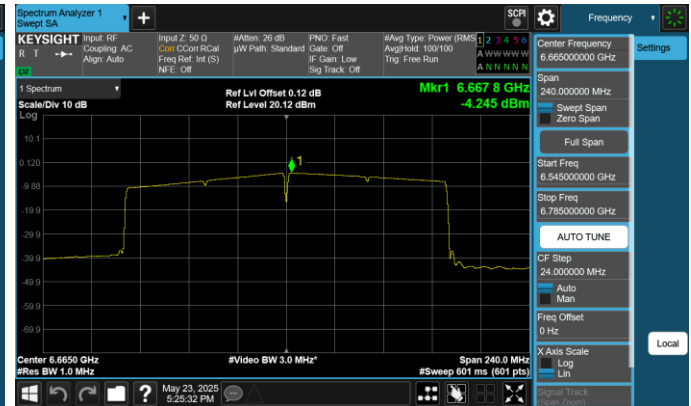


Plot 7-134. Power Spectral Density Plot CDD Antenna 1 (80MHz 802.11ax (UNII Band 7) – Ch. 167)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 74 of 171



Plot 7-135. Power Spectral Density Plot CDD Antenna 0 (160MHz 802.11ax (UNII Band 7) – Ch. 143)



Plot 7-136. Power Spectral Density Plot CDD Antenna 1 (160MHz 802.11ax (UNII Band 7) – Ch. 143)

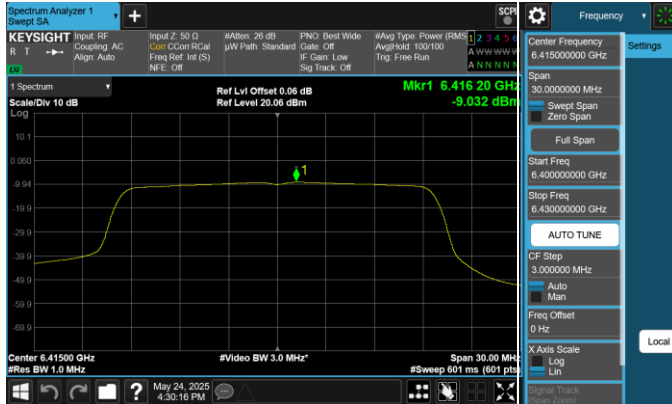
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 75 of 171

7.4.6 SDM Power Spectral Density Measurements – LPI

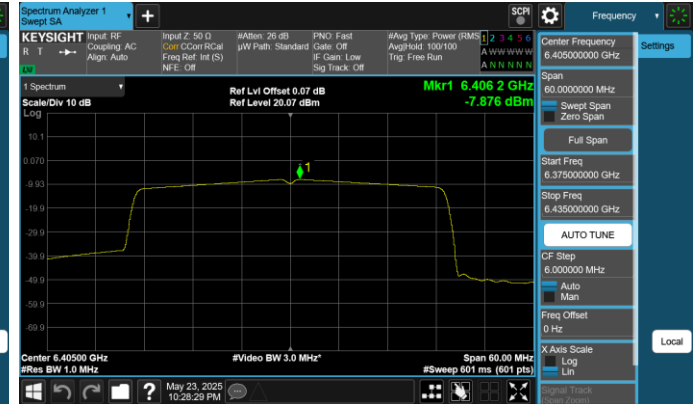
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [Mbps]	Antenna 0 Measured Power Density [dBm/MHz]	Antenna 1 Measured Power Density [dBm/MHz]	Summed MIMO Power Density [dBm/MHz]	Directional Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	ax (20MHz)	SDM	48/51.6 (MCS2)	-11.17	-10.56	-7.84	2.51	-5.33	-1	-4.33
	6175	45	ax (20MHz)	SDM	48/51.6 (MCS2)	-10.43	-9.78	-7.08	2.51	-4.57	-1	-3.57
	6415	93	ax (20MHz)	SDM	48/51.6 (MCS2)	-9.03	-8.26	-5.62	2.51	-3.11	-1	-2.11
	5965	3	ax (40MHz)	SDM	98/103.2 (MCS2)	-10.23	-9.91	-7.05	2.51	-4.54	-1	-3.54
	6165	43	ax (40MHz)	SDM	196/206.5 (MCS4)	-10.60	-9.33	-6.91	2.51	-4.40	-1	-3.40
	6405	91	ax (40MHz)	SDM	196/206.5 (MCS4)	-9.04	-7.88	-5.41	2.51	-2.90	-1	-1.90
	5985	7	ax (80MHz)	SDM	408/432.4 (MCS4)	-11.55	-10.00	-7.70	2.51	-5.19	-1	-4.19
	6145	39	ax (80MHz)	SDM	408/432.4 (MCS4)	-8.94	-9.26	-6.09	2.51	-3.58	-1	-2.58
	6385	87	ax (80MHz)	SDM	408/432.4 (MCS4)	-8.89	-6.89	-4.76	2.51	-2.25	-1	-1.25
	6025	15	ax (160MHz)	SDM	367.5/432.4 (MCS2)	-9.69	-8.96	-6.30	2.51	-3.79	-1	-2.79
	6185	47	ax (160MHz)	SDM	735/864.7 (MCS4)	-9.67	-9.53	-6.59	2.51	-4.08	-1	-3.08
	6345	79	ax (160MHz)	SDM	367.5/432.4 (MCS2)	-8.78	-8.19	-5.46	2.51	-2.95	-1	-1.95
Band 6	6435	97	ax (20MHz)	SDM	98/103.2 (MCS4)	-9.62	-8.51	-6.02	1.26	-4.76	-1	-3.76
	6475	105	ax (20MHz)	SDM	98/103.2 (MCS4)	-9.45	-8.83	-6.12	1.26	-4.85	-1	-3.85
	6515	113	ax (20MHz)	SDM	48/51.6 (MCS2)	-9.50	-8.57	-6.00	1.26	-4.74	-1	-3.74
	6445	99	ax (40MHz)	SDM	98/103.2 (MCS2)	-9.39	-7.58	-5.38	1.26	-4.12	-1	-3.12
	6485	107	ax (40MHz)	SDM	196/206.5 (MCS4)	-9.09	-7.87	-5.43	1.26	-4.17	-1	-3.17
	6465	103	ax (80MHz)	SDM	408/432.4 (MCS4)	-9.08	-7.74	-5.34	1.26	-4.08	-1	-3.08
Band 7	6505	111	ax (160MHz)	SDM	367.5/432.4 (MCS2)	-9.33	-8.23	-5.74	1.26	-4.47	-1	-3.47
	6535	117	ax (20MHz)	SDM	98/103.2 (MCS4)	-7.57	-6.59	-4.04	-0.95	-4.99	-1	-3.99
	6695	149	ax (20MHz)	SDM	48/51.6 (MCS2)	-7.28	-6.10	-3.64	-0.95	-4.59	-1	-3.59
	6875	185	ax (20MHz)	SDM	48/51.6 (MCS2)	-8.39	-6.37	-4.25	-0.95	-5.20	-1	-4.20
	6565	123	ax (40MHz)	SDM	196/206.5 (MCS4)	-7.11	-5.66	-3.31	-0.95	-4.26	-1	-3.26
	6725	155	ax (40MHz)	SDM	196/206.5 (MCS4)	-7.54	-5.76	-3.55	-0.95	-4.50	-1	-3.50
	6845	179	ax (40MHz)	SDM	98/103.2 (MCS2)	-7.42	-5.44	-3.31	-0.95	-4.26	-1	-3.26
	6545	119	ax (80MHz)	SDM	204/216.2 (MCS2)	-9.38	-8.16	-5.72	-0.95	-6.67	-1	-5.67
	6705	151	ax (80MHz)	SDM	408/432.4 (MCS4)	-7.71	-5.63	-3.54	-0.95	-4.49	-1	-3.49
	6865	183	ax (80MHz)	SDM	204/216.2 (MCS2)	-8.12	-6.01	-3.93	-0.95	-4.88	-1	-3.88
	6665	143	ax (160MHz)	SDM	367.5/432.4 (MCS2)	-7.30	-5.59	-3.35	-0.95	-4.30	-1	-3.30
	6825	175	ax (160MHz)	SDM	735/864.7 (MCS4)	-7.27	-6.42	-3.81	-0.95	-4.76	-1	-3.76
Band 8	6895	189	ax (20MHz)	SDM	98/103.2 (MCS4)	-8.48	-7.25	-4.81	-0.03	-4.85	-1	-3.85
	6995	209	ax (20MHz)	SDM	48/51.6 (MCS2)	-8.72	-6.47	-4.44	-0.03	-4.48	-1	-3.48
	7115	233	ax (20MHz)	SDM	48/51.6 (MCS2)	-8.70	-6.47	-4.43	-0.03	-4.47	-1	-3.47
	6885	187	ax (40MHz)	SDM	98/103.2 (MCS2)	-7.60	-6.61	-4.07	-0.03	-4.10	-1	-3.10
	7005	211	ax (40MHz)	SDM	196/206.5 (MCS4)	-7.98	-6.26	-4.02	-0.03	-4.06	-1	-3.06
	7085	227	ax (40MHz)	SDM	196/206.5 (MCS4)	-8.27	-6.10	-4.04	-0.03	-4.07	-1	-3.07
	6945	199	ax (80MHz)	SDM	204/216.2 (MCS2)	-6.67	-6.76	-3.71	-0.03	-3.74	-1	-2.74
	7025	215	ax (80MHz)	SDM	204/216.2 (MCS2)	-7.40	-6.65	-4.00	-0.03	-4.03	-1	-3.03
	6985	207	ax (160MHz)	SDM	735/864.7 (MCS4)	-6.81	-6.38	-3.58	-0.03	-3.62	-1	-2.62

Table 7-35. Power Spectral Density Measurements SDM

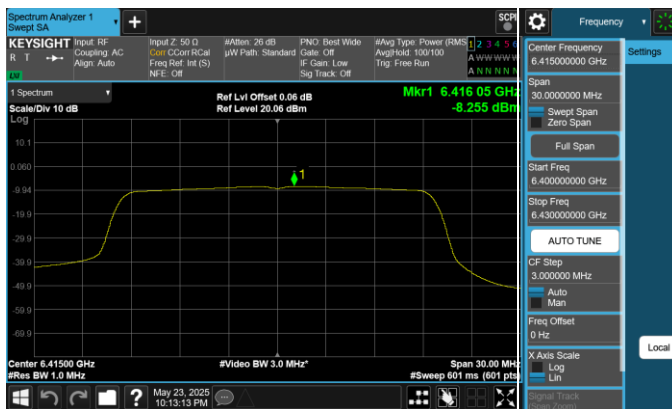
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 76 of 171



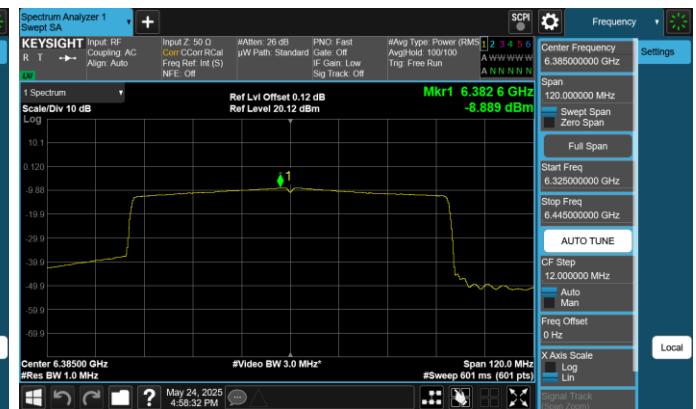
Plot 7-137. Power Spectral Density Plot SDM Antenna 0 (20MHz 802.11ax (UNII Band 5) – Ch. 93)



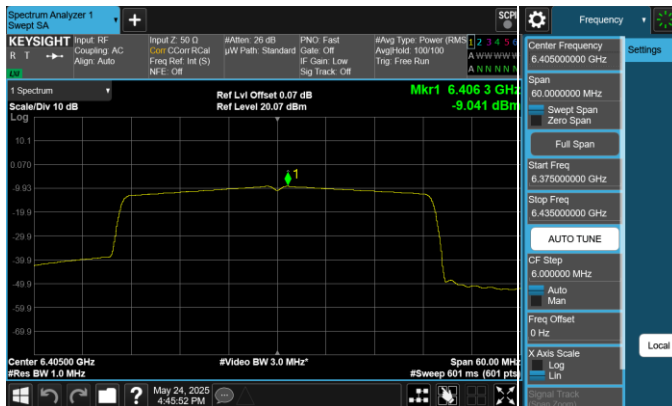
Plot 7-140. Power Spectral Density Plot SDM Antenna 1 (40MHz 802.11ax (UNII Band 5) – Ch. 91)



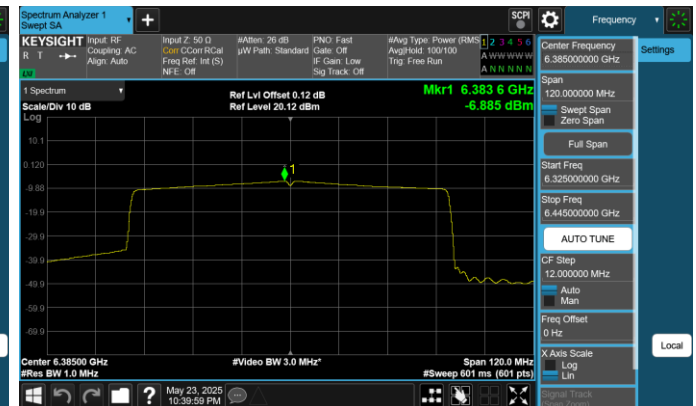
Plot 7-138. Power Spectral Density Plot SDM Antenna 1 (20MHz 802.11ax (UNII Band 5) – Ch. 93)



Plot 7-141. Power Spectral Density Plot SDM Antenna 0 (80MHz 802.11ax (UNII Band 5) – Ch. 87)

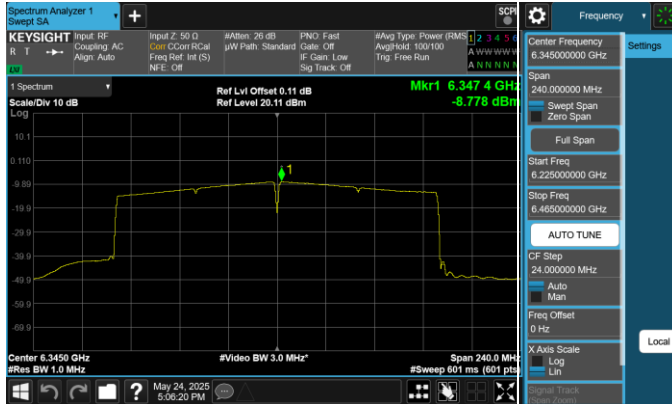


Plot 7-139. Power Spectral Density Plot SDM Antenna 0 (40MHz 802.11ax (UNII Band 5) – Ch. 91)

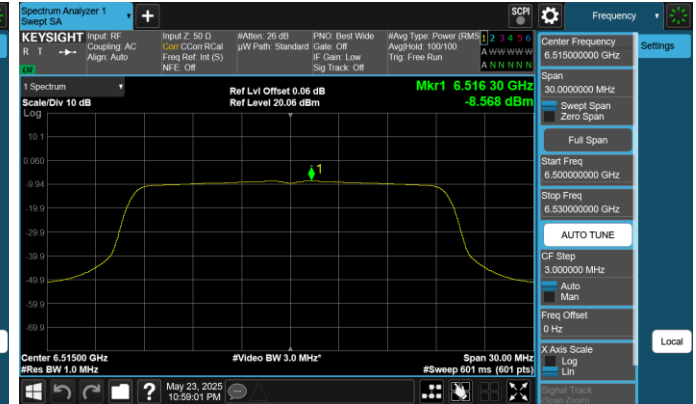


Plot 7-142. Power Spectral Density Plot SDM Antenna 1 (80MHz 802.11ax (UNII Band 5) – Ch. 87)

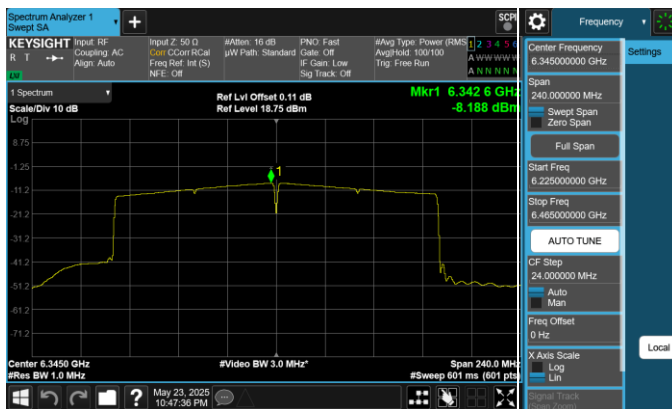
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 77 of 171



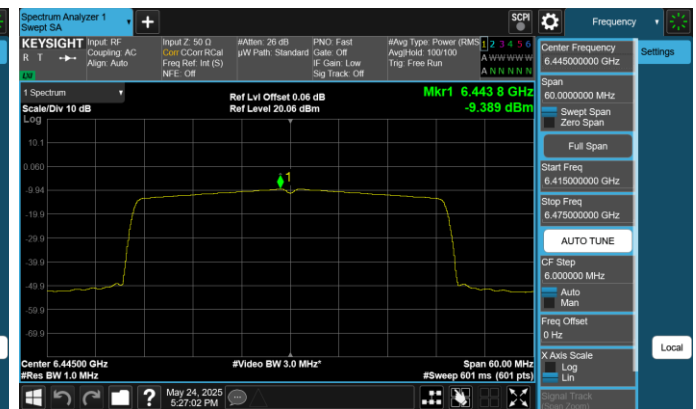
Plot 7-143. Power Spectral Density Plot SDM Antenna 0 (160MHz 802.11ax (UNII Band 5) – Ch. 79)



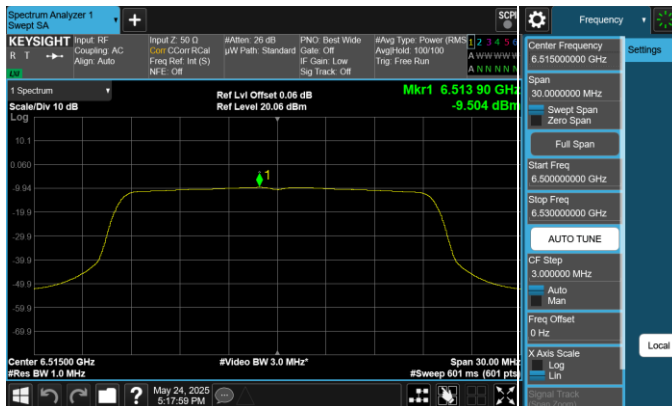
Plot 7-146. Power Spectral Density Plot SDM Antenna 1 (20MHz 802.11ax (UNII Band 6) – Ch. 113)



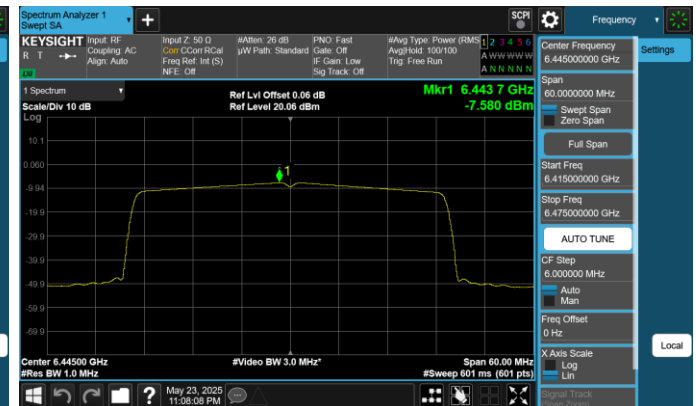
Plot 7-144. Power Spectral Density Plot SDM Antenna 1 (160MHz 802.11ax (UNII Band 5) – Ch. 79)



Plot 7-147. Power Spectral Density Plot SDM Antenna 0 (40MHz 802.11ax (UNII Band 6) – Ch. 99)

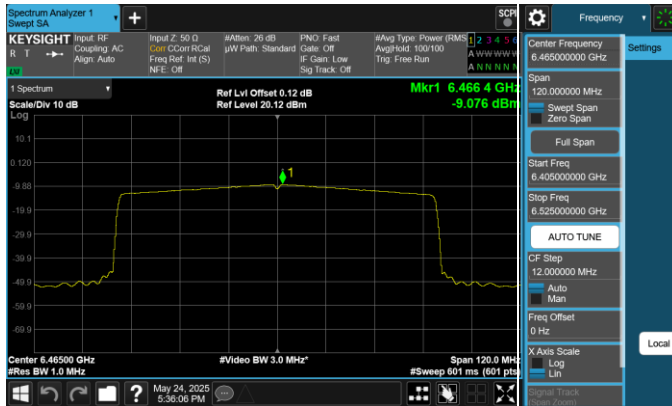


Plot 7-145. Power Spectral Density Plot SDM Antenna 0 (20MHz 802.11ax (UNII Band 6) – Ch. 113)

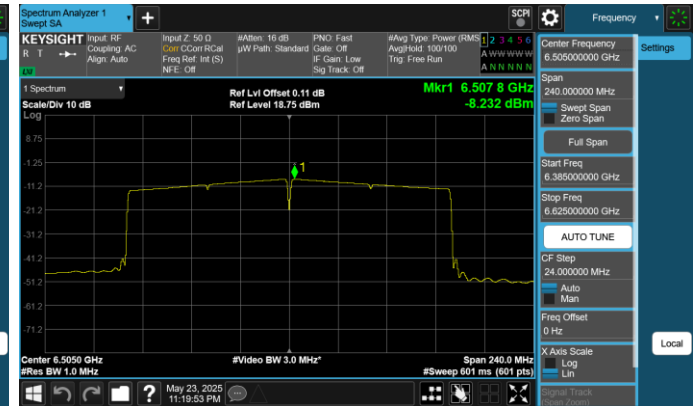


Plot 7-148. Power Spectral Density Plot SDM Antenna 1 (40MHz 802.11ax (UNII Band 6) – Ch. 99)

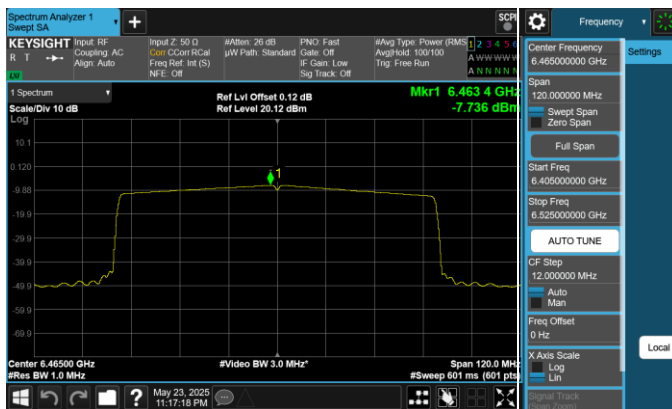
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 78 of 171



Plot 7-149. Power Spectral Density Plot SDM Antenna 0 (80MHz 802.11ax (UNII Band 6) – Ch. 103)



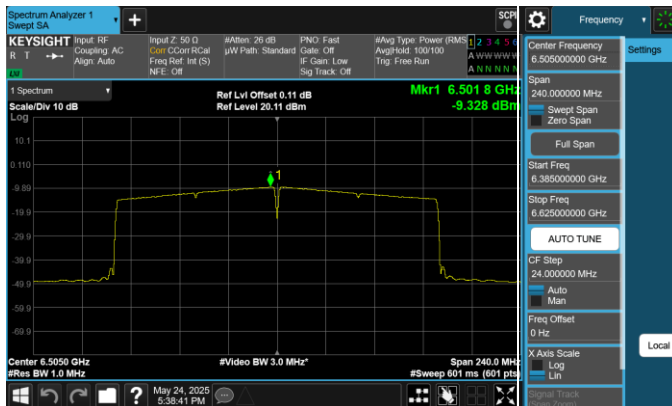
Plot 7-152. Power Spectral Density Plot SDM Antenna 1 (160MHz 802.11ax (UNII Band 6) – Ch. 111)



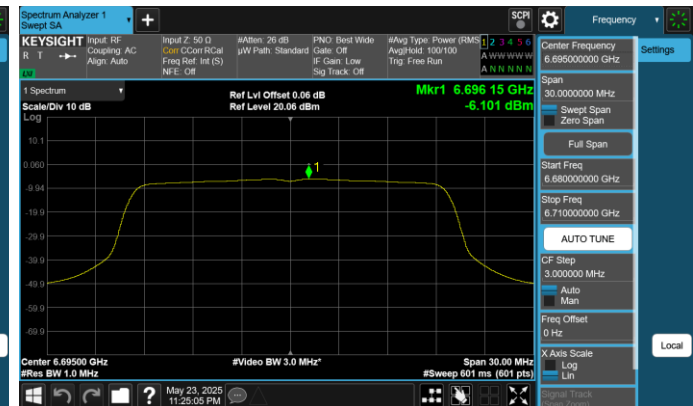
Plot 7-150. Power Spectral Density Plot SDM Antenna 1 (80MHz 802.11ax (UNII Band 6) – Ch. 103)



Plot 7-153. Power Spectral Density Plot SDM Antenna 0 (20MHz 802.11ax (UNII Band 7) – Ch. 149)

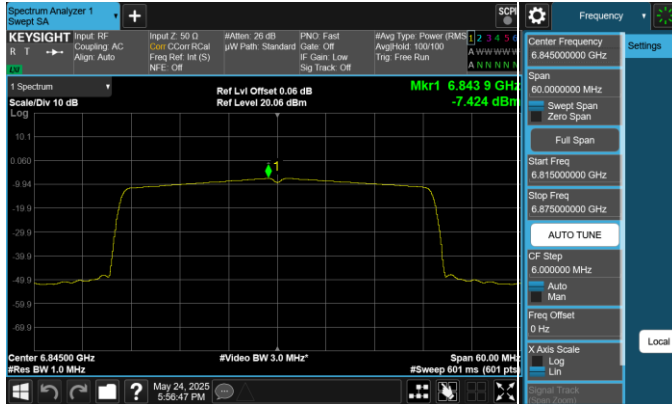


Plot 7-151. Power Spectral Density Plot SDM Antenna 0 (160MHz 802.11ax (UNII Band 6) – Ch. 111)

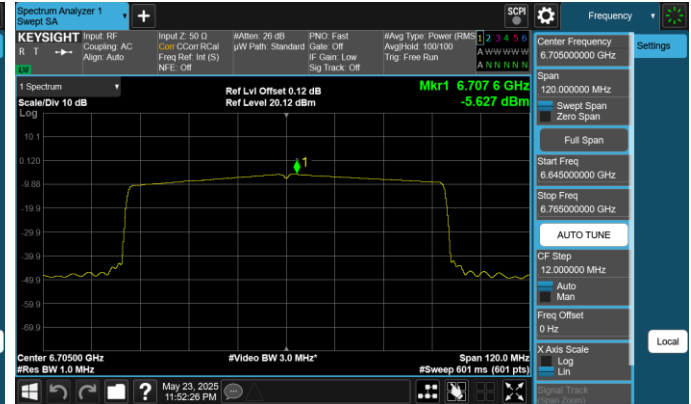


Plot 7-154. Power Spectral Density Plot SDM Antenna 1 (20MHz 802.11ax (UNII Band 7) – Ch. 149)

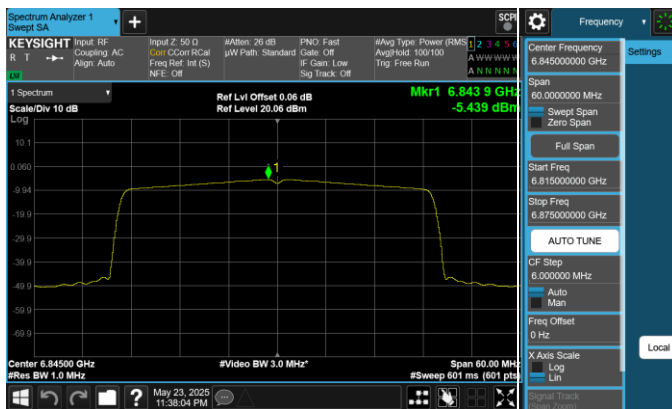
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 79 of 171



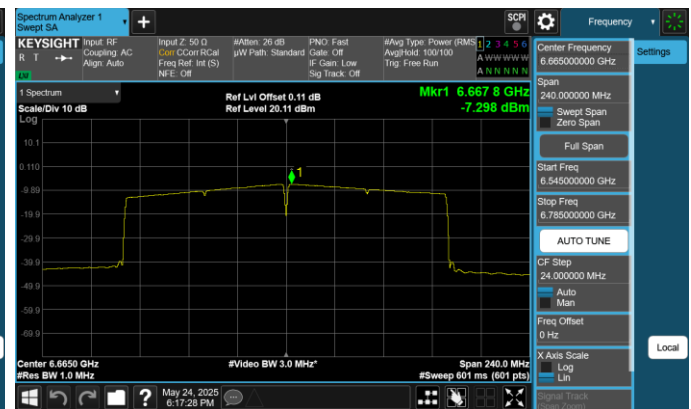
Plot 7-155. Power Spectral Density Plot SDM Antenna 0 (40MHz 802.11ax (UNII Band 7) – Ch. 179)



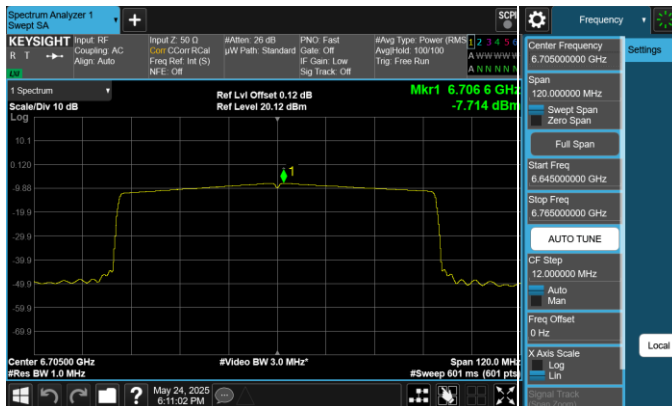
Plot 7-158. Power Spectral Density Plot SDM Antenna 1 (80MHz 802.11ax (UNII Band 7) – Ch. 151)



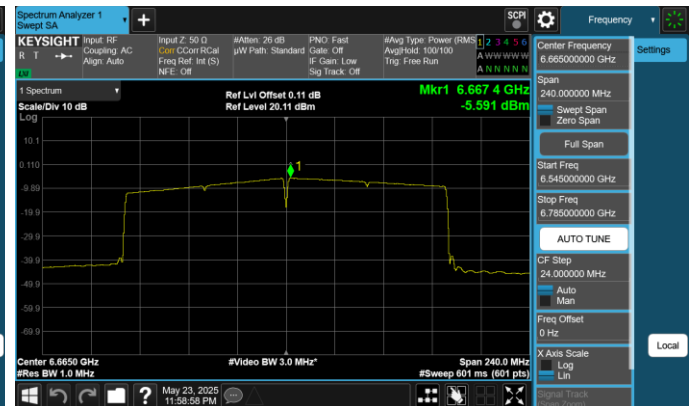
Plot 7-156. Power Spectral Density Plot SDM Antenna 1 (40MHz 802.11ax (UNII Band 7) – Ch. 179)



Plot 7-159. Power Spectral Density Plot SDM Antenna 0 (160MHz 802.11ax (UNII Band 7) – Ch. 143)

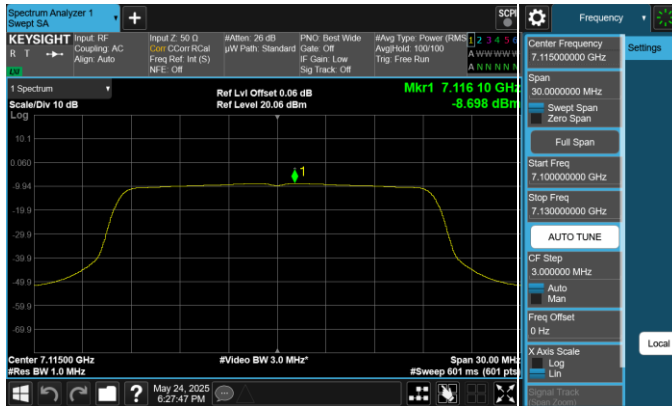


Plot 7-157. Power Spectral Density Plot SDM Antenna 0 (80MHz 802.11ax (UNII Band 7) – Ch. 151)

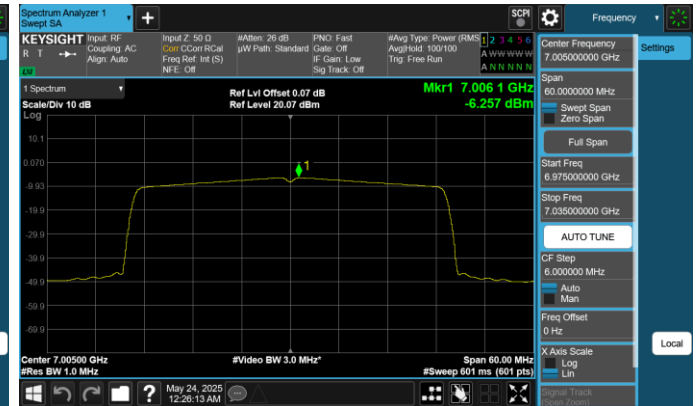


Plot 7-160. Power Spectral Density Plot SDM Antenna 1 (160MHz 802.11ax (UNII Band 7) – Ch. 143)

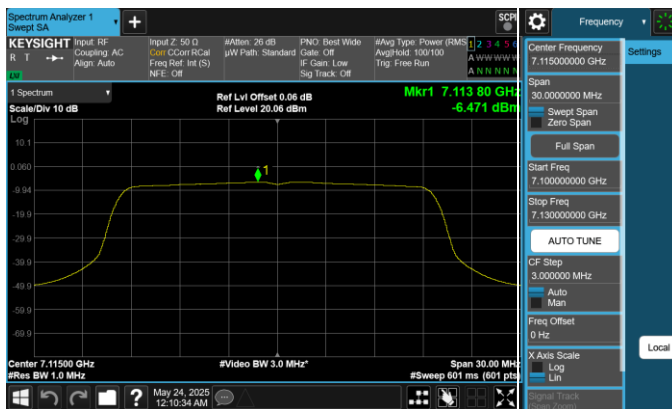
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 80 of 171



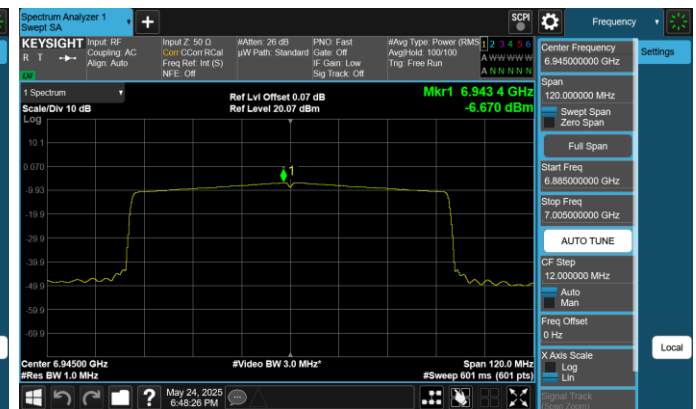
Plot 7-161. Power Spectral Density Plot SDM Antenna 0 (20MHz 802.11ax (UNII Band 8) – Ch. 233)



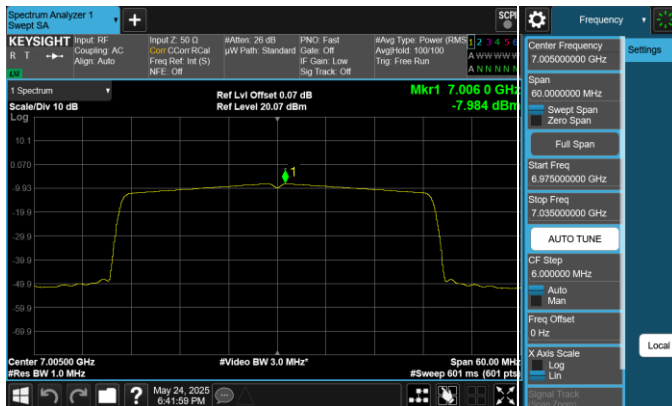
Plot 7-164. Power Spectral Density Plot SDM Antenna 1 (40MHz 802.11ax (UNII Band 8) – Ch. 211)



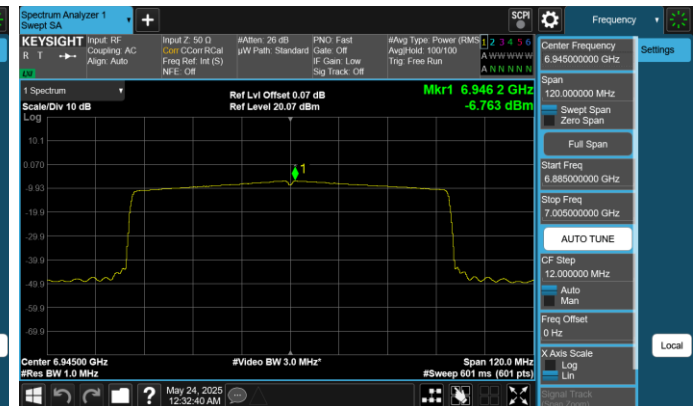
Plot 7-162. Power Spectral Density Plot SDM Antenna 1 (20MHz 802.11ax (UNII Band 8) – Ch. 233)



Plot 7-165. Power Spectral Density Plot SDM Antenna 0 (80MHz 802.11ax (UNII Band 8) – Ch. 199)

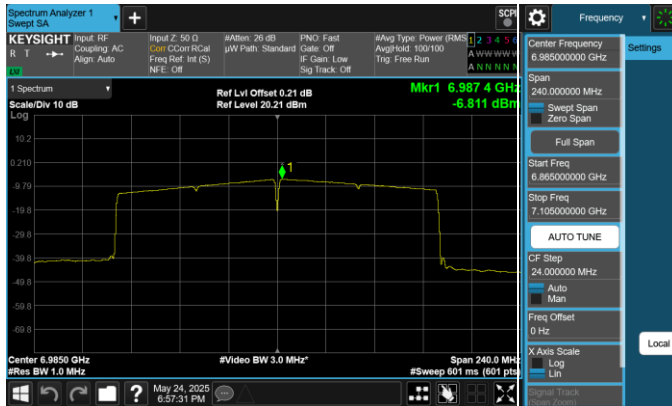


Plot 7-163. Power Spectral Density Plot SDM Antenna 0 (40MHz 802.11ax (UNII Band 8) – Ch. 211)

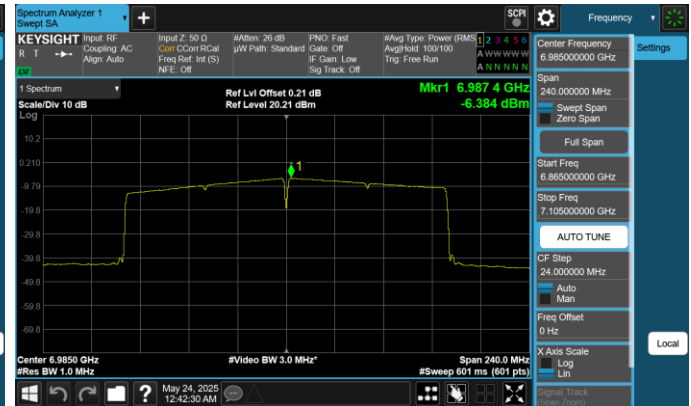


Plot 7-166. Power Spectral Density Plot SDM Antenna 1 (80MHz 802.11ax (UNII Band 8) – Ch. 199)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 81 of 171



Plot 7-167. Power Spectral Density Plot SDM Antenna 0 (160MHz 802.11ax (UNII Band 8) – Ch. 207)



Plot 7-168. Power Spectral Density Plot SDM Antenna 1 (160MHz 802.11ax (UNII Band 8) – Ch. 207)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 82 of 171

Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to Section 14.5.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 0 and Antenna 1 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 2.85 dBi for Antenna 0 and 1.75 dBi for Antenna 1.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{2.85/20} + 10^{1.75/20} / 2] \text{ dBi} \\ &= 1.15 \text{ dBi}\end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 2.85 dBi for Antenna 0 and 1.75 dBi for Antenna 1.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{2.85/10} + 10^{1.75/10} / 2] \text{ dBi} \\ &= 2.33 \text{ dBi}\end{aligned}$$

Sample MIMO Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average conducted power spectral density was measured to be -11.17 dBm for Antenna 0 and -10.56 dBm for Antenna 1.

Antenna 0 + Antenna 1 = MIMO

$$(-11.17 \text{ dBm} + -10.56 \text{ dBm}) = (0.076 \text{ mW} + 0.087 \text{ mW}) = 0.164 \text{ mW} = -7.84 \text{ dBm}$$

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

At 5955MHz in 802.11ax (20MHz BW) mode, the average MIMO power density was calculated to be -7.88 dBm with directional gain of 2.51 dBi.

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

$$-7.84 \text{ dBm} + 2.51 \text{ dBi} = -5.33 \text{ dBm}$$

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 83 of 171

7.5 In-Band Emissions

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to 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 – 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 .
3. Measure the 26 dB EBW using the test procedure 12.5.2 of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to . (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.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 84 of 171

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 were investigated, and tabular data has been reported. Only the worst-case plot was reported.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 85 of 171

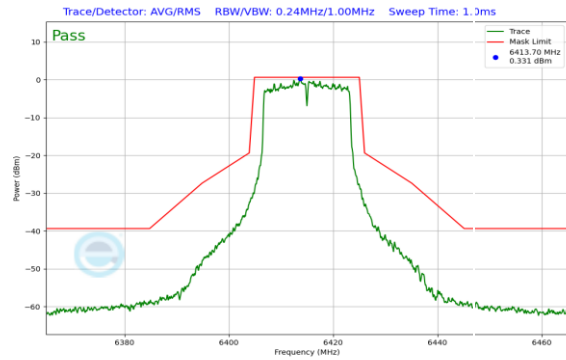
V 12.0 03/03/2026

7.5.1 Antenna 0 In-Band Emission Measurements – SP

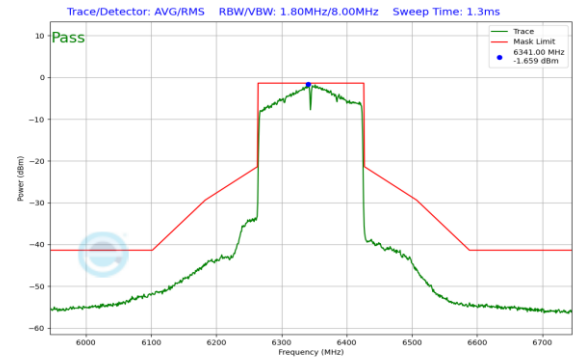
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 0 In-Band Emission
Band 5	5955	1	a	12	Pass
	6175	45	a	54	Pass
	6415	93	a	54	Pass
	5955	1	ax (20MHz)	49/51.6 (MCS4)	Pass
	6175	45	ax (20MHz)	24/25.8 (MCS2)	Pass
	6415	93	ax (20MHz)	24/25.8 (MCS2)	Pass
	5965	3	ax (40MHz)	98/103.2 (MCS4)	Pass
	6165	43	ax (40MHz)	49/51.6 (MCS2)	Pass
	6405	91	ax (40MHz)	49/51.6 (MCS2)	Pass
	5985	7	ax (80MHz)	102/108.1 (MCS2)	Pass
	6145	39	ax (80MHz)	102/108.1 (MCS2)	Pass
	6385	87	ax (80MHz)	102/108.1 (MCS2)	Pass
	6025	15	ax (160MHz)	367.5/432.4 (MCS4)	Pass
	6185	47	ax (160MHz)	367.5/432.4 (MCS4)	Pass
	6345	79	ax (160MHz)	367.5/432.4 (MCS4)	Pass
Band 6	6435	97	a	54	Pass
	6475	105	a	54	Pass
	6515	113	a	54	Pass
	6435	97	ax (20MHz)	49/51.6 (MCS4)	Pass
	6475	105	ax (20MHz)	49/51.6 (MCS4)	Pass
	6515	113	ax (20MHz)	49/51.6 (MCS4)	Pass
	6445	99	ax (40MHz)	98/103.2 (MCS4)	Pass
	6485	107	ax (40MHz)	98/103.2 (MCS4)	Pass
	6465	103	ax (80MHz)	102/108.1 (MCS2)	Pass
	6505	111	ax (160MHz)	367.5/432.4 (MCS4)	Pass
Band 7	6535	117	a	54	Pass
	6695	149	a	12	Pass
	6855	181	a	24	Pass
	6535	117	ax (20MHz)	24/25.8 (MCS2)	Pass
	6695	149	ax (20MHz)	24/25.8 (MCS2)	Pass
	6855	181	ax (20MHz)	49/51.6 (MCS4)	Pass
	6565	123	ax (40MHz)	49/51.6 (MCS2)	Pass
	6725	155	ax (40MHz)	98/103.2 (MCS4)	Pass
	6845	179	ax (40MHz)	98/103.2 (MCS4)	Pass
	6625	135	ax (80MHz)	102/108.1 (MCS2)	Pass
	6705	151	ax (80MHz)	102/108.1 (MCS2)	Pass
	6785	167	ax (80MHz)	102/108.1 (MCS2)	Pass
	6665	143	ax (160MHz)	367.5/432.4 (MCS4)	Pass

Table 7-36. In-Band Emission Measurements Antenna 0

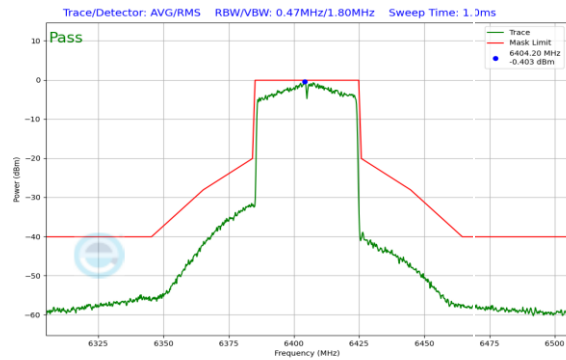
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 86 of 171



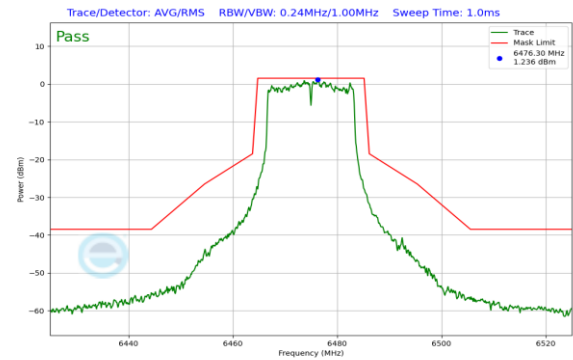
Plot 7-169. Power Spectral Density Plot Antenna 0 (20MHz 802.11a (UNII Band 5) – Ch. 93)



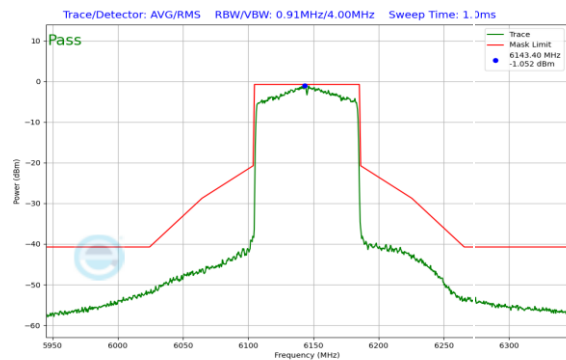
Plot 7-172. Power Spectral Density Plot Antenna 0 (160MHz 802.11ax (UNII Band 5) – Ch. 79)



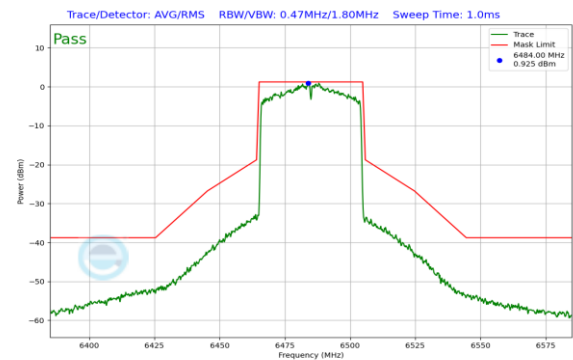
Plot 7-170. Power Spectral Density Plot Antenna 0 (40MHz 802.11ax (UNII Band 5) – Ch. 91)



Plot 7-173. In Band Emission Plot Antenna 0 (20MHz 802.11a (UNII Band 6) – Ch. 105)

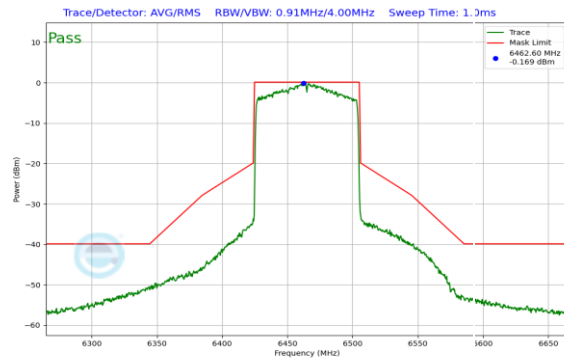


Plot 7-171. Power Spectral Density Plot Antenna 0 (80MHz 802.11ax (UNII Band 5) – Ch. 39)

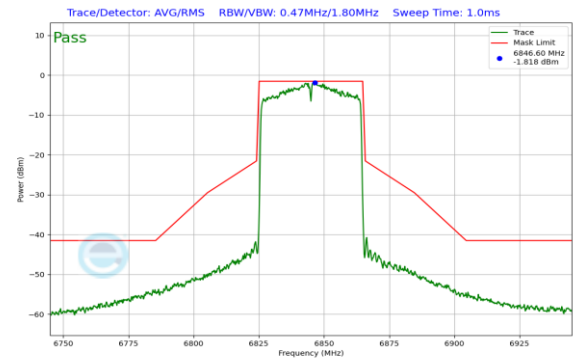


Plot 7-174. In Band Emission Plot Antenna 0 (40MHz 802.11ax (UNII Band 6) – Ch. 107)

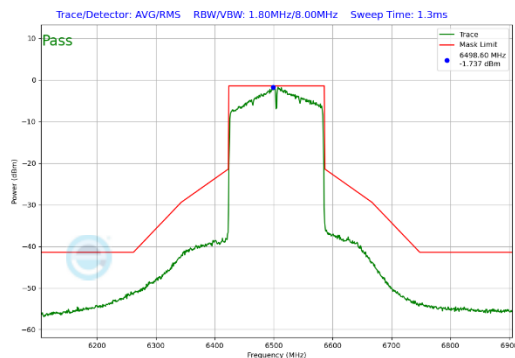
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 87 of 171



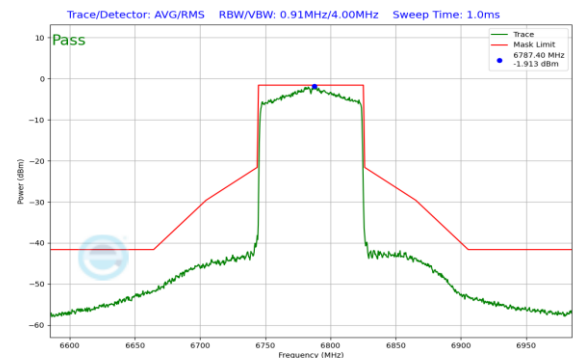
Plot 7-175. In Band Emission Plot Antenna 0 (80MHz 802.11ax (UNII Band 6) – Ch. 103)



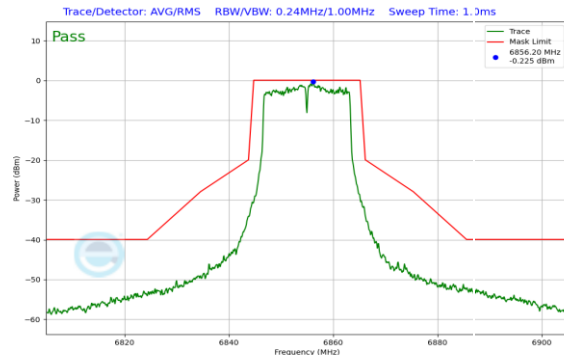
Plot 7-178. In Band Emission Plot Antenna 0 (40MHz 802.11ax (UNII Band 7) – Ch. 179)



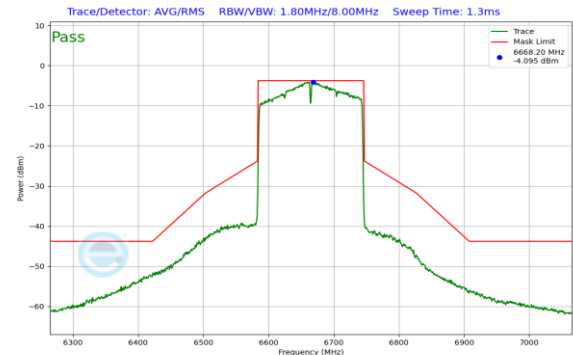
Plot 7-176. In Band Emission Plot Antenna 0 (160MHz 802.11ax (UNII Band 6) – Ch. 111)



Plot 7-179. In Band Emission Plot Antenna 0 (80MHz 802.11ax (UNII Band 7) – Ch. 167)



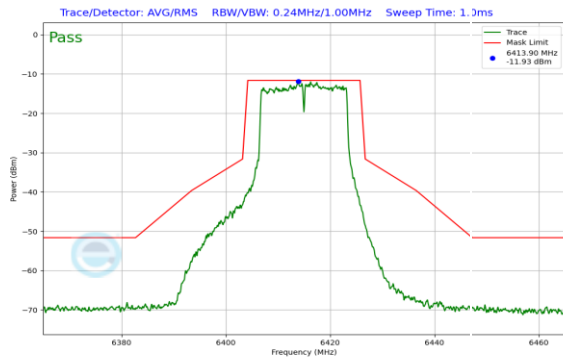
Plot 7-177. In Band Emission Plot Antenna 0 (20MHz 802.11ax (UNII Band 7) – Ch. 181)



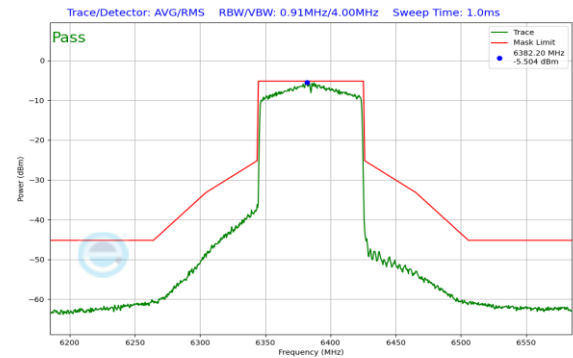
Plot 7-180. In Band Emission Plot Antenna 0 (160MHz 802.11ax (UNII Band 7) – Ch. 143)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 88 of 171

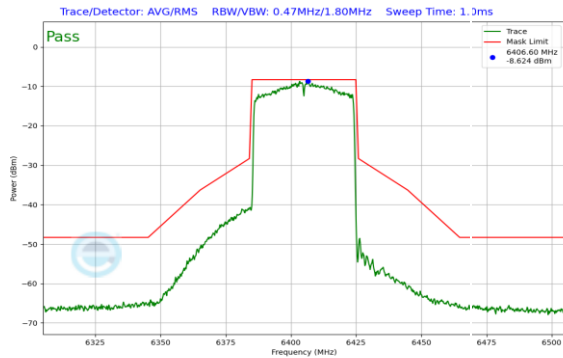
7.5.2 Antenna 0 In-Band Emission Measurements – LPI



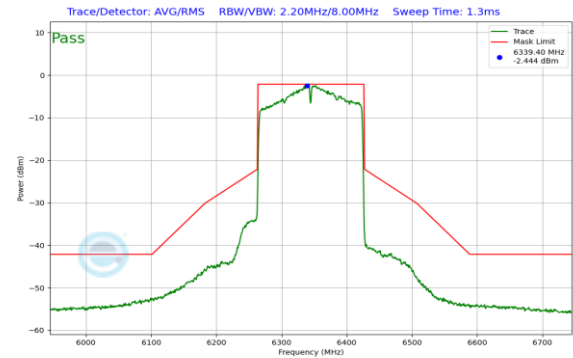
Plot 7-181. In-Band Emission Plot Antenna 0 (20MHz 802.11a (UNII Band 5) – Ch. 93)



Plot 7-183. In-Band Emission Plot Antenna 0 (80MHz 802.11ax (UNII Band 5) – Ch. 87)

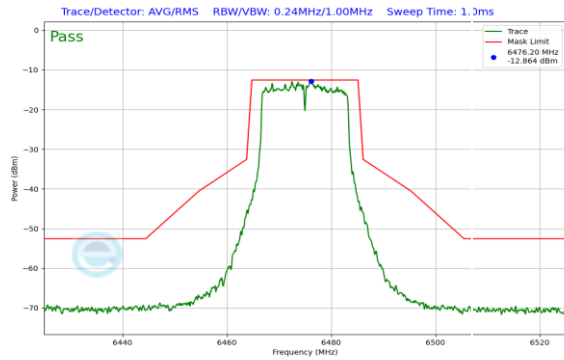


Plot 7-182. In-Band Emission Plot Antenna 0 (40MHz 802.11ax (UNII Band 5) – Ch. 91)

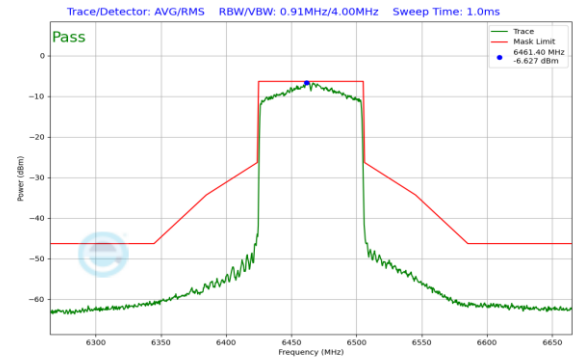


Plot 7-184. In-Band Emission Plot Antenna 0 (160MHz 802.11ax (UNII Band 5) – Ch. 79)

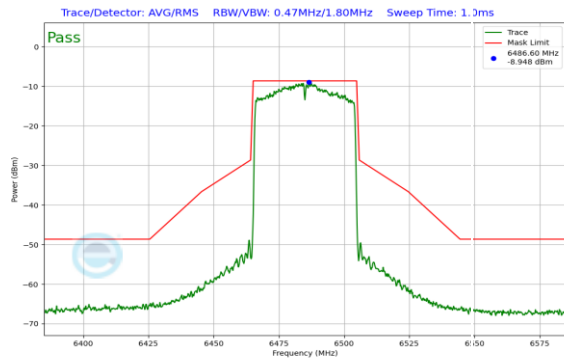
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 89 of 171



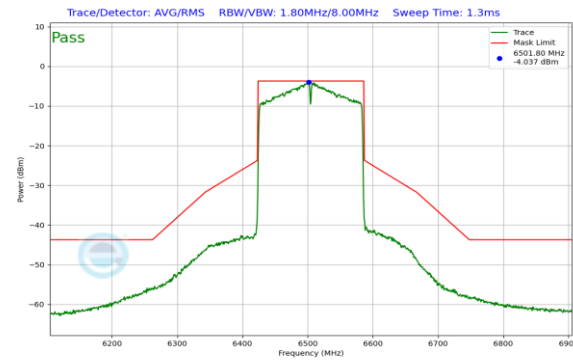
Plot 7-185. In-Band Emission Plot Antenna 0 (20MHz 802.11a (UNII Band 6) – Ch. 105)



Plot 7-187. In-Band Emission Plot Antenna 0 (80MHz 802.11ax (UNII Band 6) – Ch. 103)

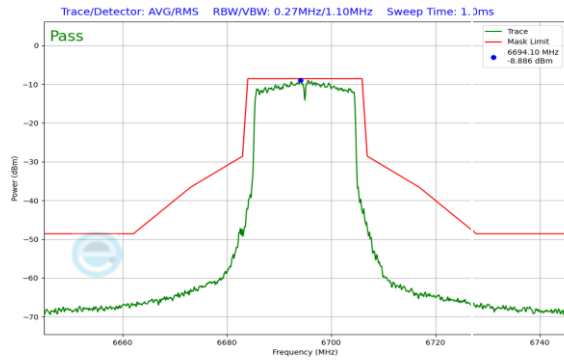


Plot 7-186. In-Band Emission Plot Antenna 0 (40MHz 802.11ax (UNII Band 6) – Ch. 107)

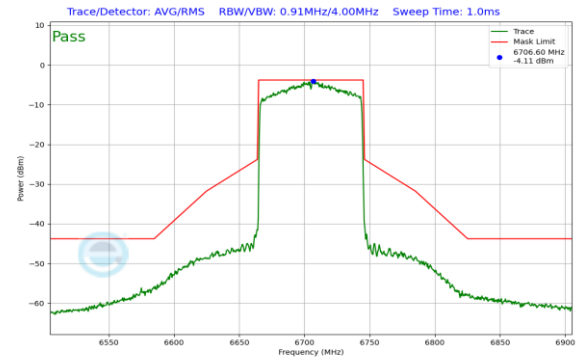


Plot 7-188. In-Band Emission Plot Antenna 0 (160MHz 802.11ax (UNII Band 6) – Ch. 111)

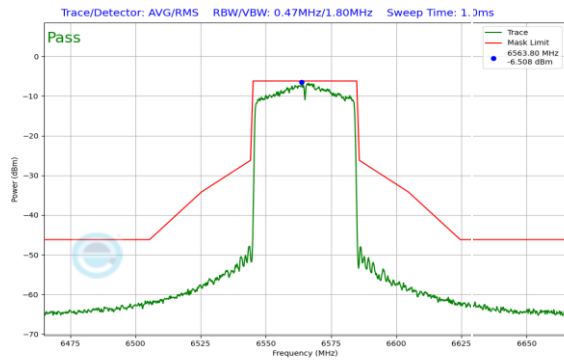
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 90 of 171



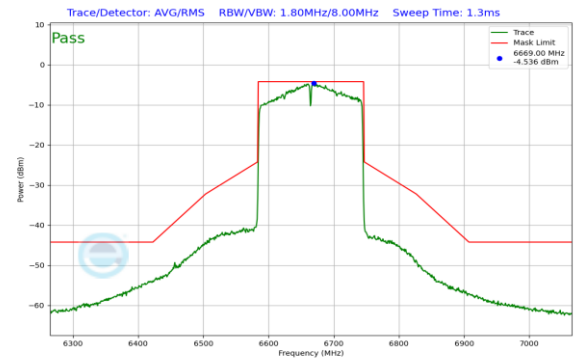
Plot 7-189. In-Band Emission Plot Antenna 0 (20MHz 802.11ax (UNII Band 7) – Ch. 149)



Plot 7-191. In-Band Emission Plot Antenna 0 (80MHz 802.11ax (UNII Band 7) – Ch. 151)

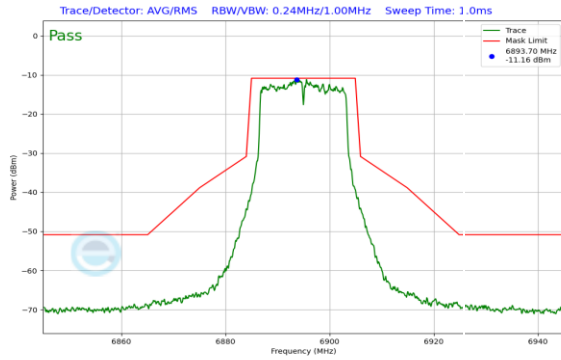


Plot 7-190. In-Band Emission Plot Antenna 0 (40MHz 802.11ax (UNII Band 7) – Ch. 123)

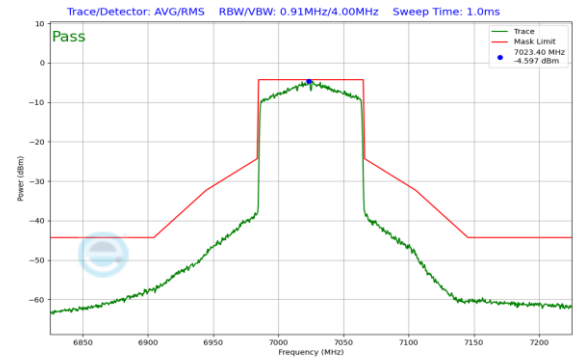


Plot 7-192. In-Band Emission Plot Antenna 0 (160MHz 802.11ax (UNII Band 7) – Ch. 143)

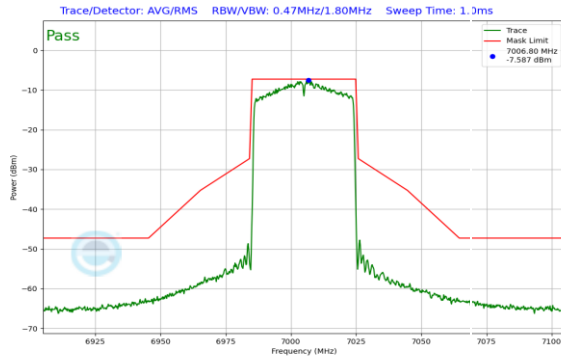
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 91 of 171



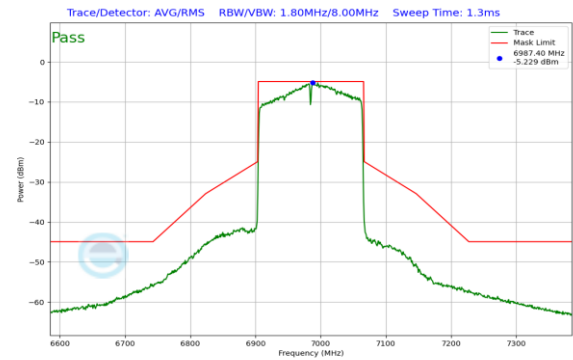
Plot 7-193. In-Band Emission Plot Antenna 0 (20MHz 802.11a (UNII Band 8) – Ch. 189)



Plot 7-195. In-Band Emission Plot Antenna 0 (80MHz 802.11ax (UNII Band 8) – Ch. 215)



Plot 7-194. In-Band Emission Plot Antenna 0 (40MHz 802.11ax (UNII Band 8) – Ch. 211)



Plot 7-196. In-Band Emission Plot Antenna 0 (160MHz 802.11ax (UNII Band 8) – Ch. 207)

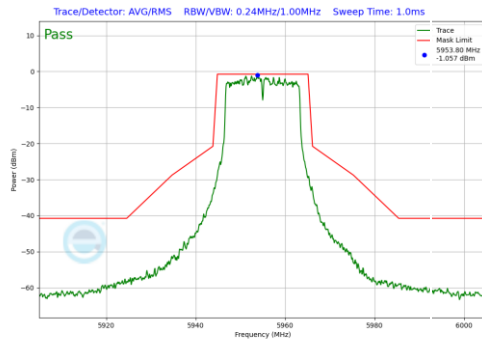
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 92 of 171

7.5.3 Antenna 1 In-Band Emission Measurements – SP

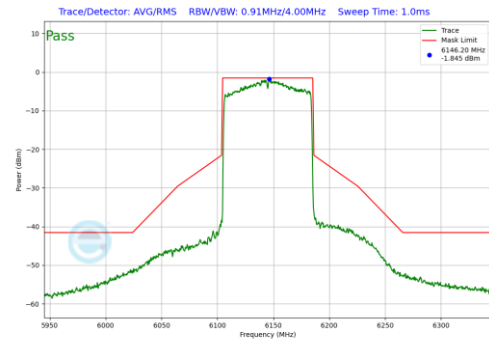
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 1 In-Band Emission
Band 5	5955	1	a	54	Pass
	6175	45	a	54	Pass
	6415	93	a	54	Pass
	5955	1	ax (20MHz)	24/25.8 (MCS2)	Pass
	6175	45	ax (20MHz)	24/25.8 (MCS2)	Pass
	6415	93	ax (20MHz)	24/25.8 (MCS2)	Pass
	5965	3	ax (40MHz)	49/51.6 (MCS2)	Pass
	6165	43	ax (40MHz)	49/51.6 (MCS2)	Pass
	6405	91	ax (40MHz)	49/51.6 (MCS2)	Pass
	5985	7	ax (80MHz)	204/216.2 (MCS4)	Pass
	6145	39	ax (80MHz)	102/108.1 (MCS2)	Pass
	6385	87	ax (80MHz)	102/108.1 (MCS2)	Pass
	6025	15	ax (160MHz)	367.5/432.4 (MCS4)	Pass
	6185	47	ax (160MHz)	367.5/432.4 (MCS4)	Pass
	6345	79	ax (160MHz)	367.5/432.4 (MCS4)	Pass
Band 6	6435	97	a	54	Pass
	6475	105	a	54	Pass
	6515	113	a	54	Pass
	6435	97	ax (20MHz)	49/51.6 (MCS4)	Pass
	6475	105	ax (20MHz)	49/51.6 (MCS4)	Pass
	6515	113	ax (20MHz)	24/25.8 (MCS2)	Pass
	6445	99	ax (40MHz)	49/51.6 (MCS2)	Pass
	6485	107	ax (40MHz)	98/103.2 (MCS4)	Pass
	6465	103	ax (80MHz)	204/216.2 (MCS4)	Pass
	6505	111	ax (160MHz)	183.8/216.2 (MCS2)	Pass
Band 7	6535	117	a	12	Pass
	6695	149	a	54	Pass
	6855	181	a	54	Pass
	6535	117	ax (20MHz)	24/25.8 (MCS2)	Pass
	6695	149	ax (20MHz)	49/51.6 (MCS4)	Pass
	6855	181	ax (20MHz)	24/25.8 (MCS2)	Pass
	6565	123	ax (40MHz)	49/51.6 (MCS2)	Pass
	6725	155	ax (40MHz)	49/51.6 (MCS2)	Pass
	6845	179	ax (40MHz)	98/103.2 (MCS4)	Pass
	6625	135	ax (80MHz)	102/108.1 (MCS2)	Pass
	6705	151	ax (80MHz)	204/216.2 (MCS4)	Pass
	6785	167	ax (80MHz)	204/216.2 (MCS4)	Pass
	6665	143	ax (160MHz)	183.8/216.2 (MCS2)	Pass

Table 7-37. In-Band Emission Measurements Antenna 1

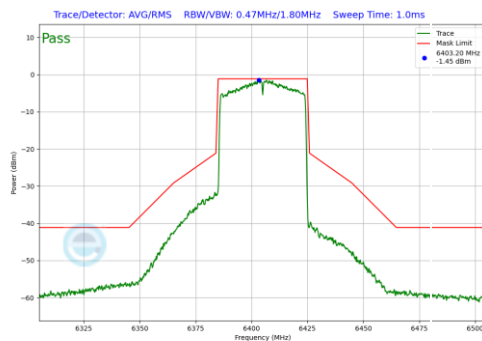
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 93 of 171



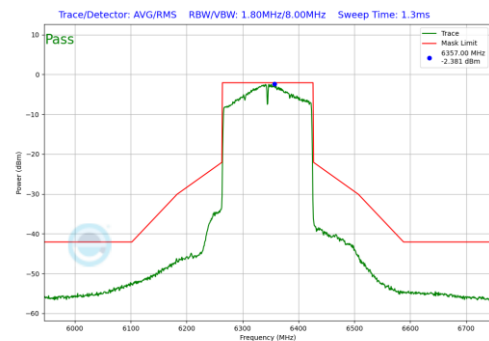
Plot 7-197. In Band Emission Plot Antenna 1 (20MHz 802.11a (UNII Band 5) – Ch. 1)



Plot 7-199. In Band Emission Plot Antenna 1 (80MHz 802.11ax (UNII Band 5) – Ch. 39)

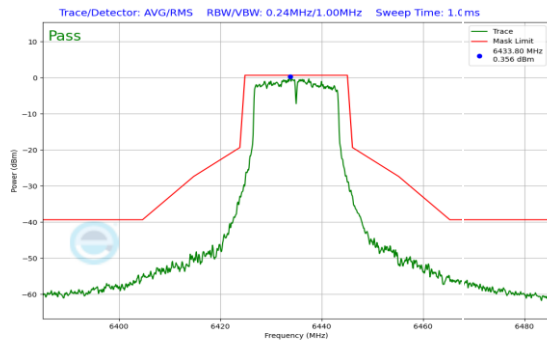


Plot 7-198. In Band Emission Plot Antenna 1 (40MHz 802.11ax (UNII Band 5) – Ch. 91)

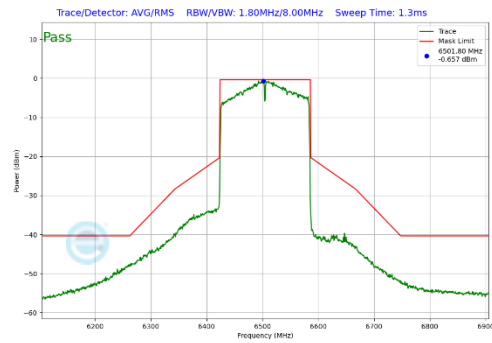


Plot 7-200. In Band Emission Plot Antenna 1 (160MHz 802.11ax (UNII Band 5) – Ch. 79)

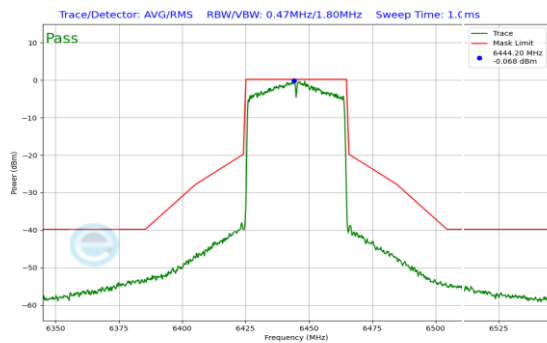
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 94 of 171



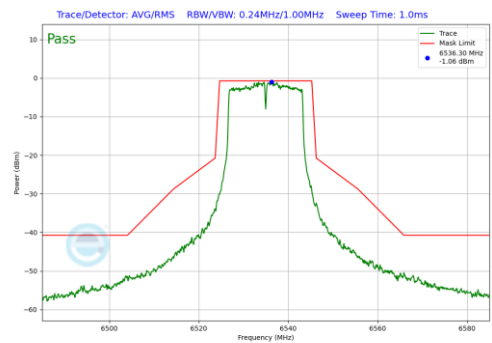
Plot 7-201. In Band Emission Plot Antenna 1 (20MHz 802.11a (UNII Band 6) – Ch. 97)



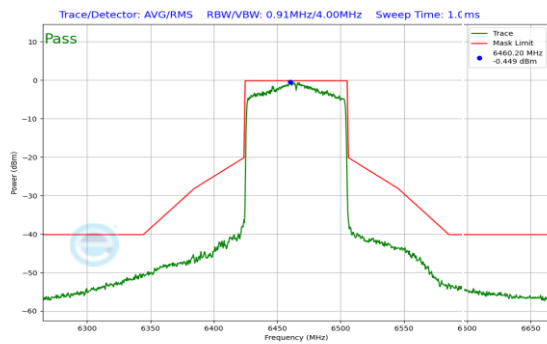
Plot 7-204. In Band Emission Plot Antenna 1 (160MHz 802.11ax (UNII Band 6) – Ch. 111)



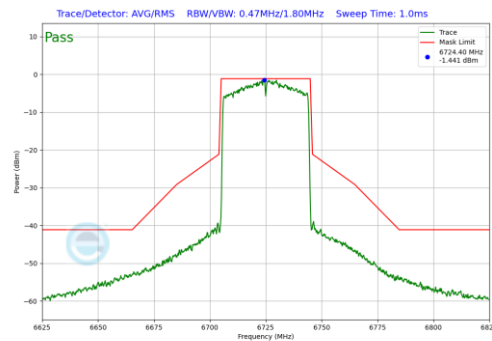
Plot 7-202. In Band Emission Plot Antenna 1 (40MHz 802.11ax (UNII Band 6) – Ch. 99)



Plot 7-205. In Band Emission Plot Antenna 1 (20MHz 802.11a (UNII Band 7) – Ch. 117)

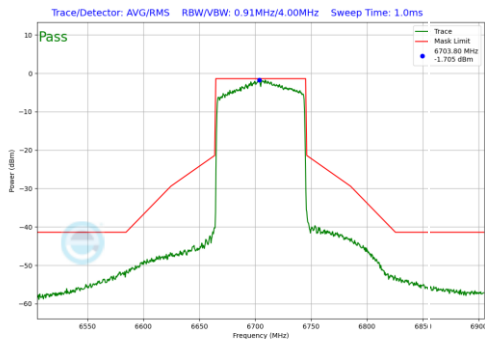


Plot 7-203. In Band Emission Plot Antenna 1 (80MHz 802.11ax (UNII Band 6) – Ch. 103)

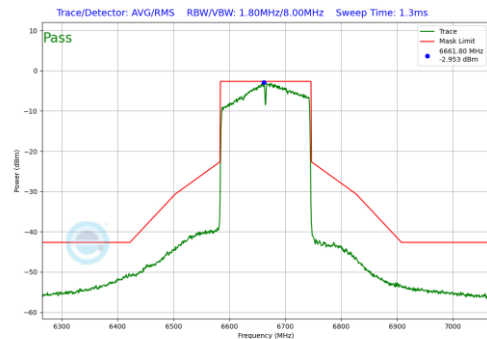


Plot 7-206. In Band Emission Plot Antenna 1 (40MHz 802.11ax (UNII Band 7) – Ch. 155)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 95 of 171



Plot 7-207. In Band Emission Plot Antenna 1 (80MHz 802.11ax (UNII Band 7) – Ch. 151)



Plot 7-208. In Band Emission Plot Antenna 1 (160MHz 802.11ax (UNII Band 7) – Ch. 143)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 6/20/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-09-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 96 of 171