

7.4.3 CDD Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Ant 3a Power Density [dBm/3kHz]	Ant 1a Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	12	-8.11	-8.62	-5.35	8.00	-13.35	Pass
2437	6	g	CDD	12	-2.22	-1.43	1.21	8.00	-6.79	Pass
2462	11	g	CDD	12	-6.74	-5.17	-2.87	8.00	-10.87	Pass
2412	1	n	CDD	39/43.3 (MCS10)	-9.32	-9.13	-6.21	8.00	-14.21	Pass
2437	6	n	CDD	39/43.3 (MCS10)	-2.82	-1.71	0.78	8.00	-7.22	Pass
2462	11	n	CDD	39/43.3 (MCS10)	-7.29	-7.40	-4.33	8.00	-12.33	Pass
2412	1	ax (SU)	CDD	48/51.6 (MCS2)	-10.41	-10.68	-7.53	8.00	-15.53	Pass
2437	6	ax (SU)	CDD	48/51.6 (MCS2)	-4.23	-4.01	-1.11	8.00	-9.11	Pass
2462	11	ax (SU)	CDD	48/51.6 (MCS2)	-9.79	-9.42	-6.59	8.00	-14.59	Pass

Table 7-44.CDD Conducted Power Density Measurements (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Ant 3a Power Density [dBm/3kHz]	Ant 1a Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	24	-8.97	-9.29	-6.12	8.00	-14.12	Pass
2437	6	g	CDD	24	-1.94	-1.46	1.32	8.00	-6.68	Pass
2462	11	g	CDD	24	-8.29	-7.70	-4.97	8.00	-12.97	Pass
2412	1	n	CDD	78/86.7 (MCS12)	-8.88	-9.44	-6.14	8.00	-14.14	Pass
2437	6	n	CDD	78/86.7 (MCS12)	-2.66	-2.82	0.28	8.00	-7.72	Pass
2462	11	n	CDD	78/86.7 (MCS12)	-8.11	-8.48	-5.28	8.00	-13.28	Pass
2412	1	ax (SU)	CDD	98/103.2 (MCS4)	-10.20	-10.53	-7.35	8.00	-15.35	Pass
2437	6	ax (SU)	CDD	98/103.2 (MCS4)	-2.32	-3.54	0.12	8.00	-7.88	Pass
2462	11	ax (SU)	CDD	98/103.2 (MCS4)	-9.89	-9.99	-6.93	8.00	-14.93	Pass

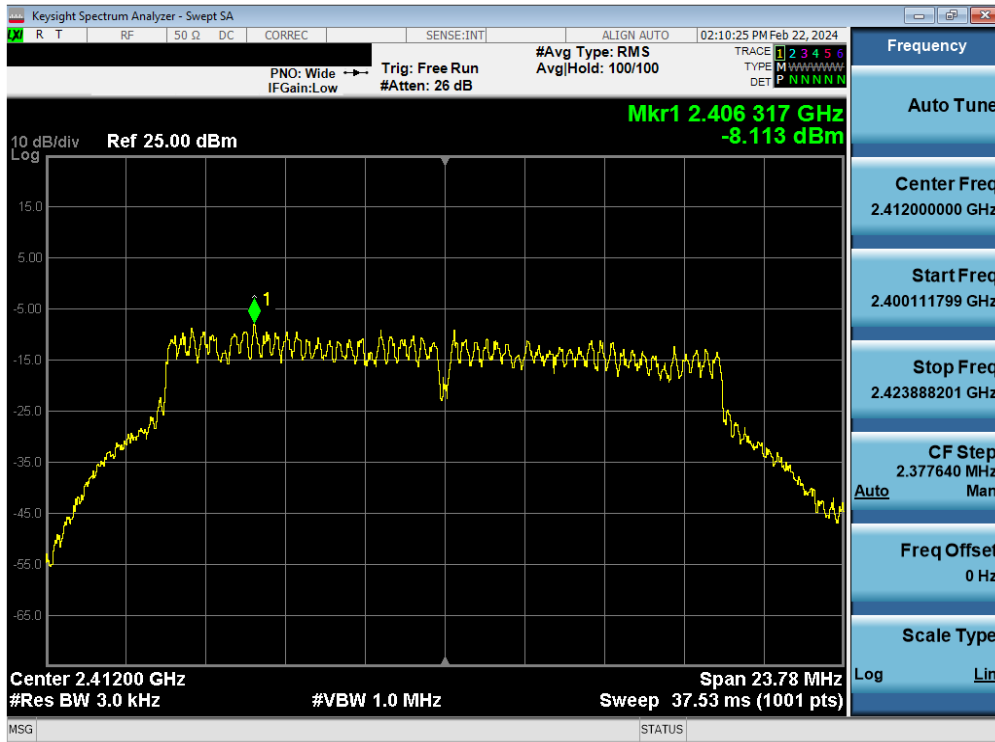
Table 7-45.CDD Conducted Power Density Measurements (Mid Data Rate)

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Ant 3a Power Density [dBm/3kHz]	Ant 1a Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	54	-10.22	-10.42	-7.31	8.00	-15.31	Pass
2437	6	g	CDD	54	-2.94	-2.62	0.24	8.00	-7.76	Pass
2462	11	g	CDD	54	-10.14	-9.89	-7.00	8.00	-15.00	Pass
2412	1	n	CDD	130/144.4 (MCS15)	-9.66	-9.46	-6.55	8.00	-14.55	Pass
2437	6	n	CDD	130/144.4 (MCS15)	-2.21	-1.50	1.17	8.00	-6.83	Pass
2462	11	n	CDD	130/144.4 (MCS15)	-7.77	-8.24	-4.99	8.00	-12.99	Pass
2412	1	ax (SU)	CDD	216/229.4 (MCS9)	-10.20	-11.27	-7.69	8.00	-15.69	Pass
2437	6	ax (SU)	CDD	216/229.4 (MCS9)	-2.61	-2.75	0.33	8.00	-7.67	Pass
2462	11	ax (SU)	CDD	216/229.4 (MCS9)	-9.81	-9.43	-6.60	8.00	-14.60	Pass

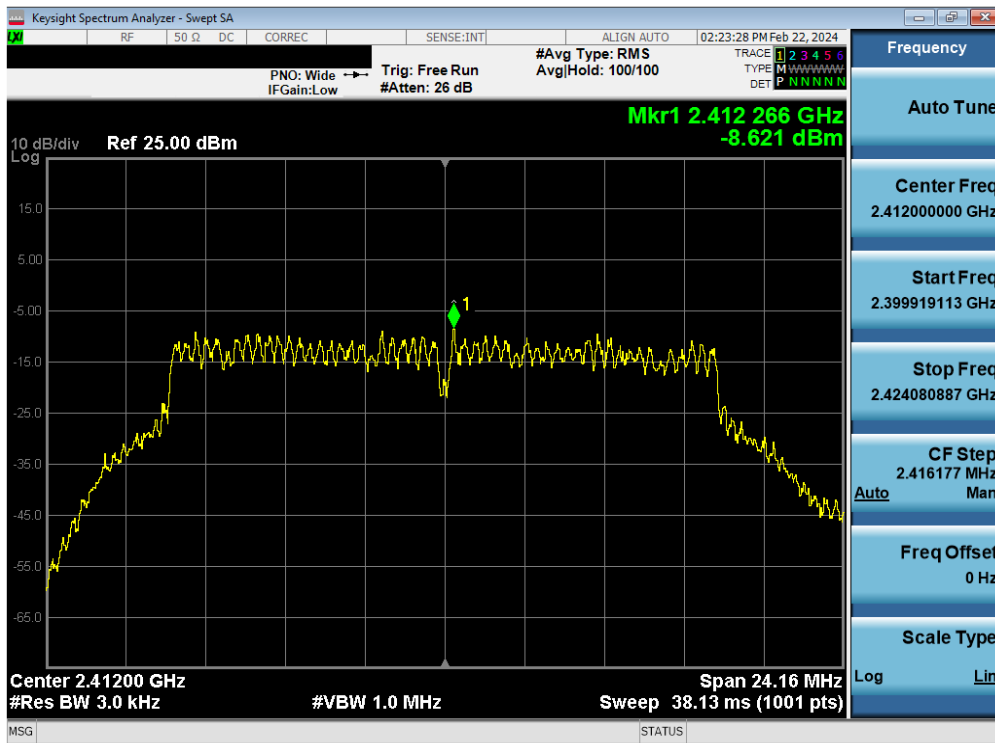
Table 7-46.CDD Conducted Power Density Measurements (High Data Rate)

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 101 of 388

Low Rate

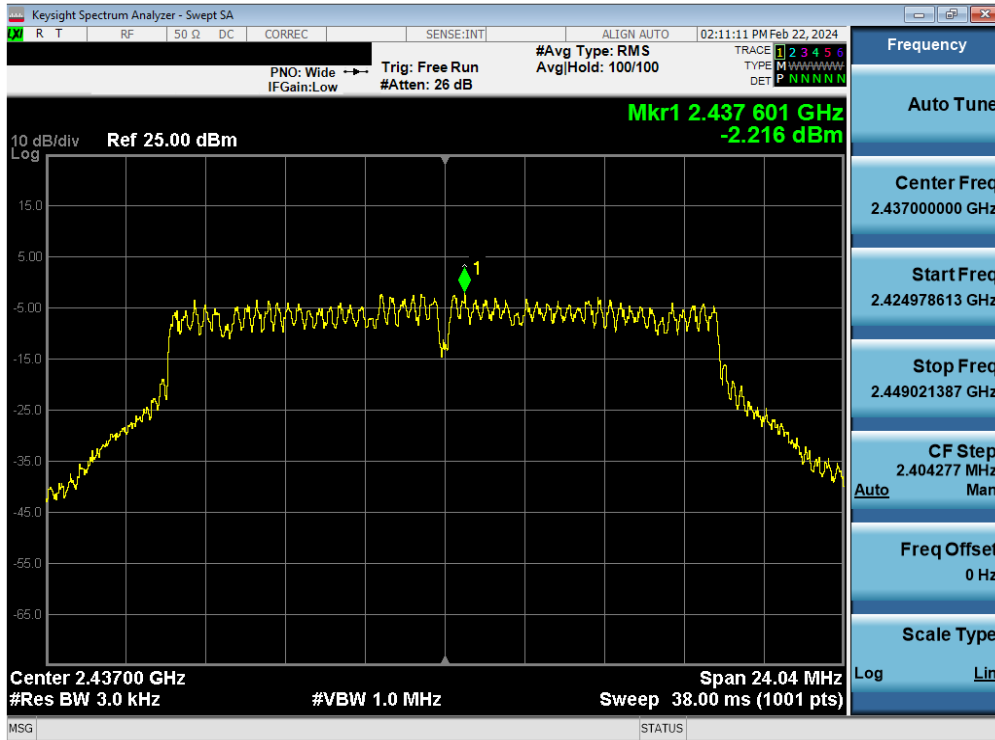


Plot 7-121. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 1) – 12Mbps

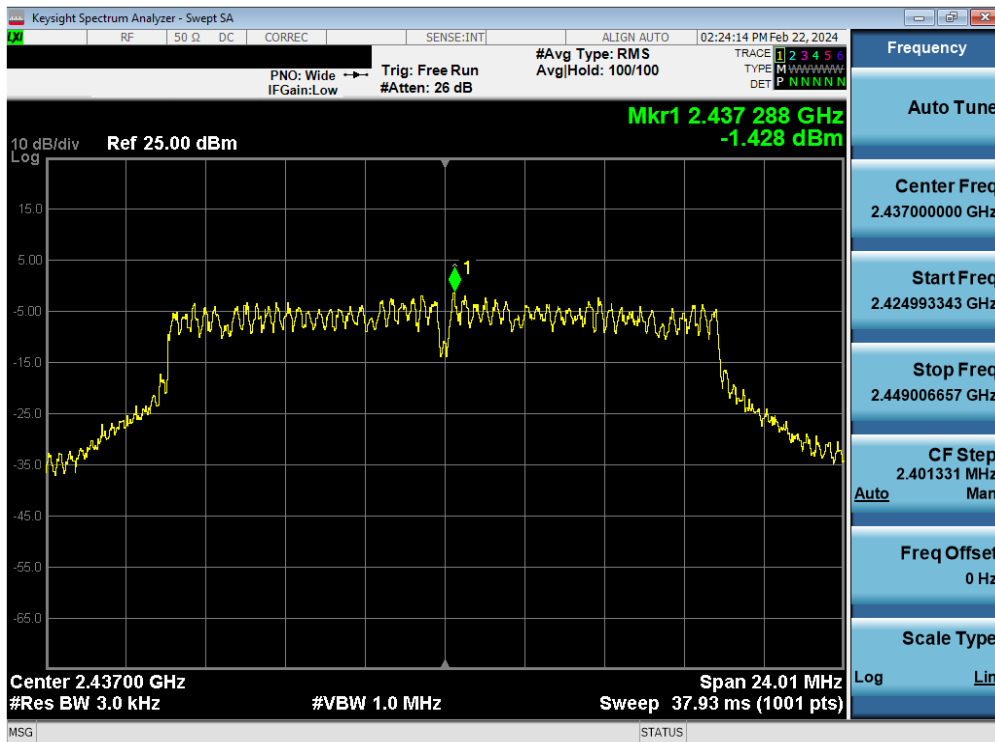


Plot 7-122. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 1) – 12Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 102 of 388

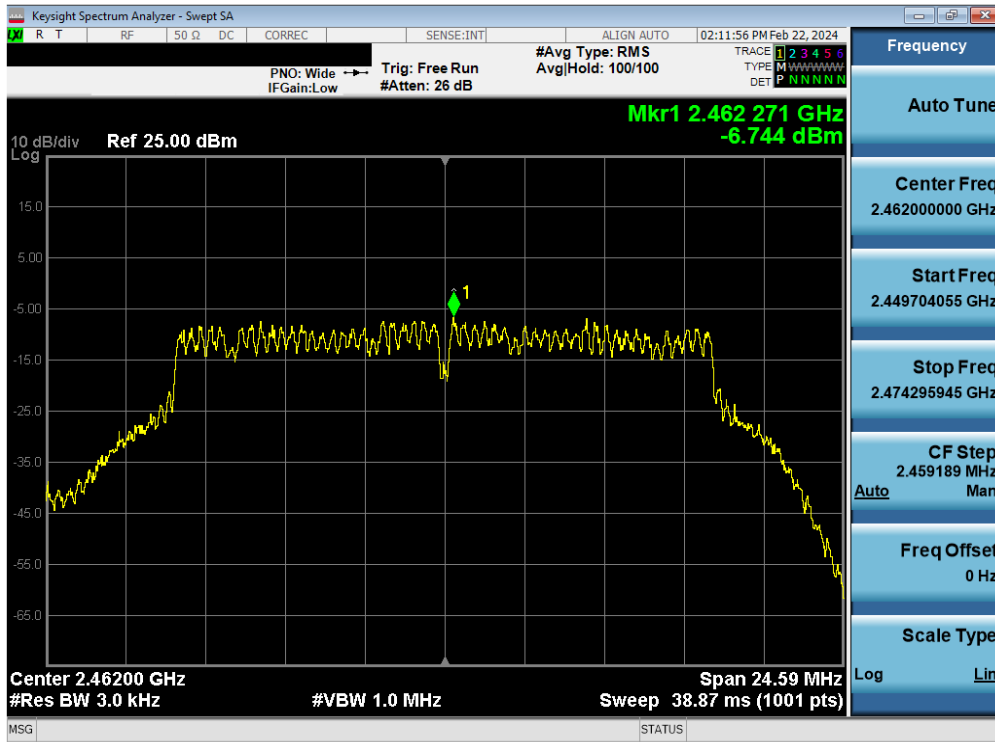


Plot 7-123. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 6) – 12Mbps

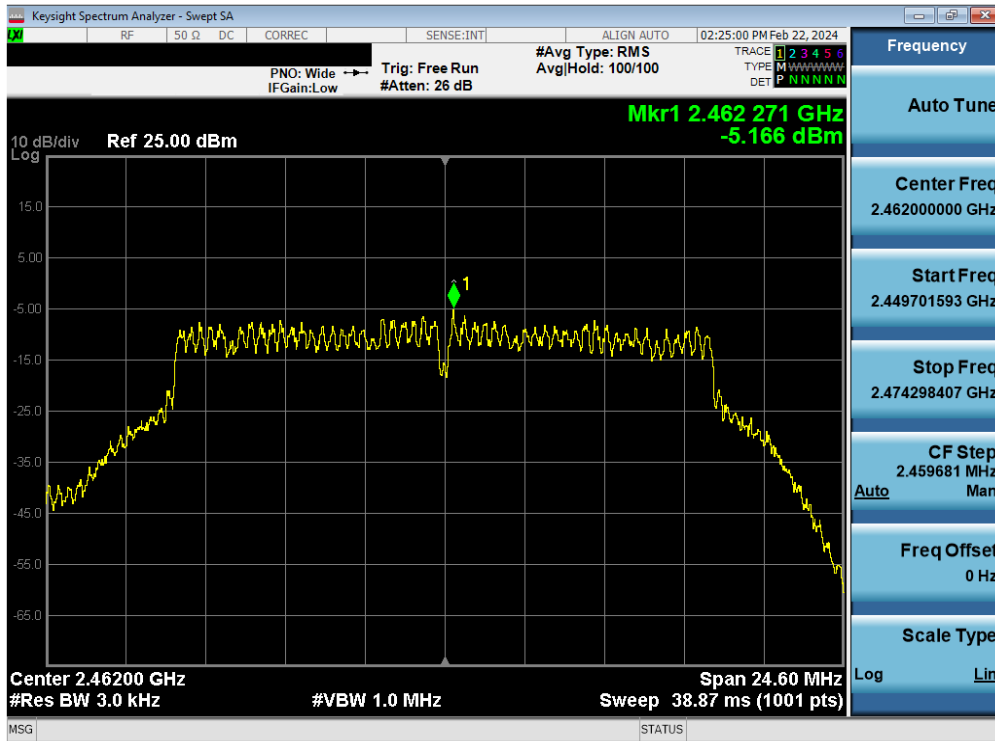


Plot 7-124. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 103 of 388

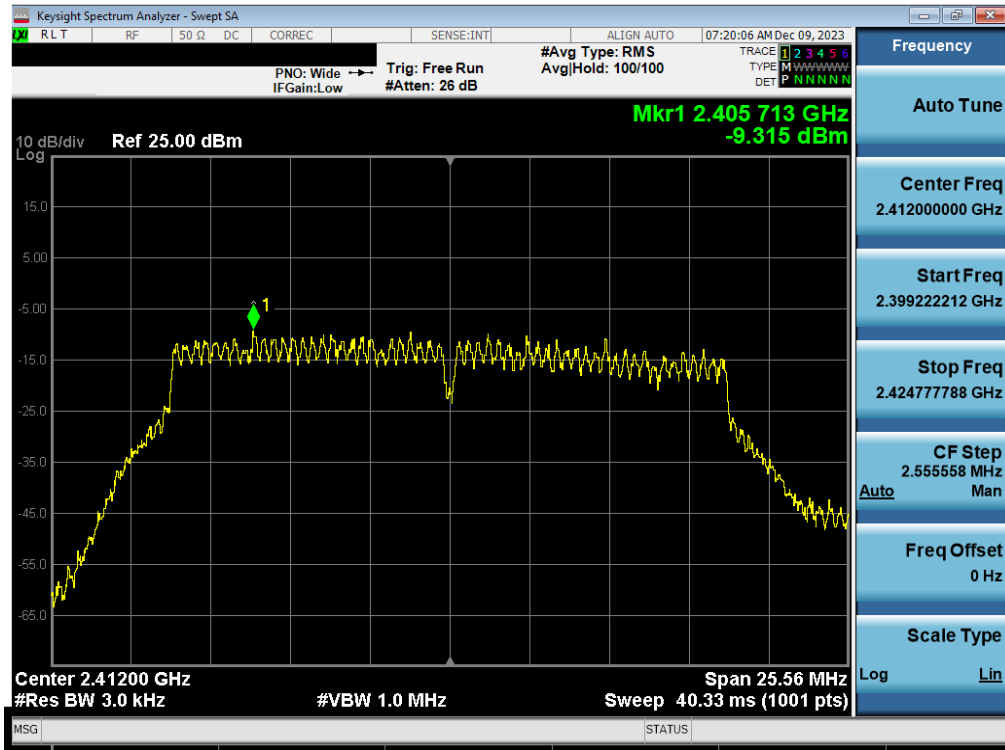


Plot 7-125. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 11) – 12Mbps

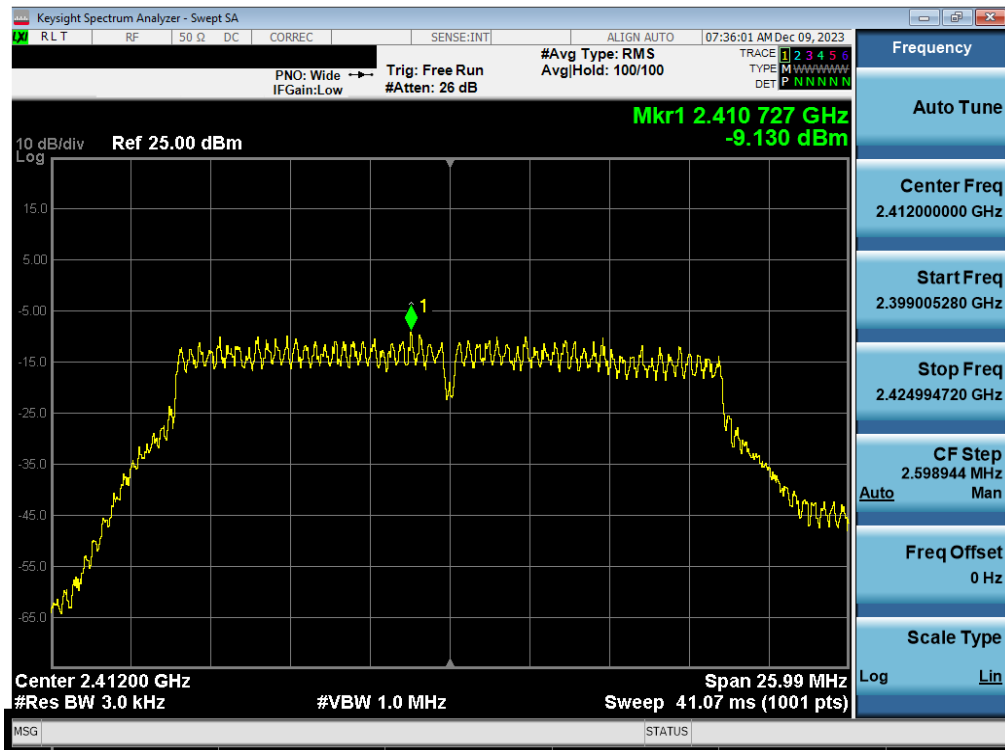


Plot 7-126. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 11) – 12Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 104 of 388

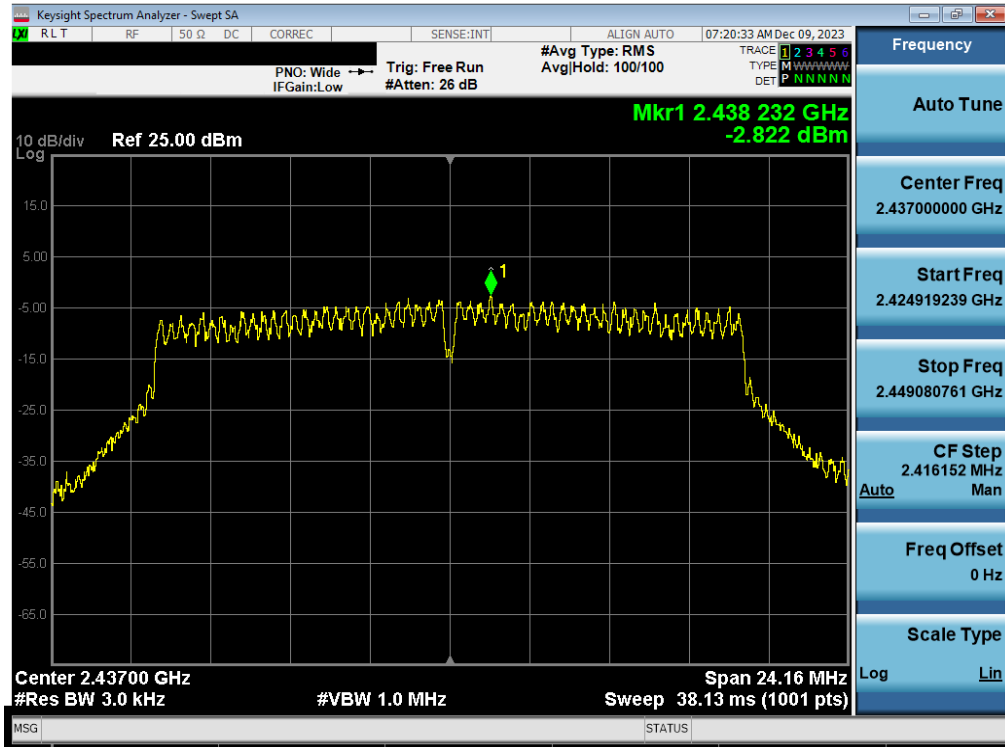


Plot 7-127. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS10

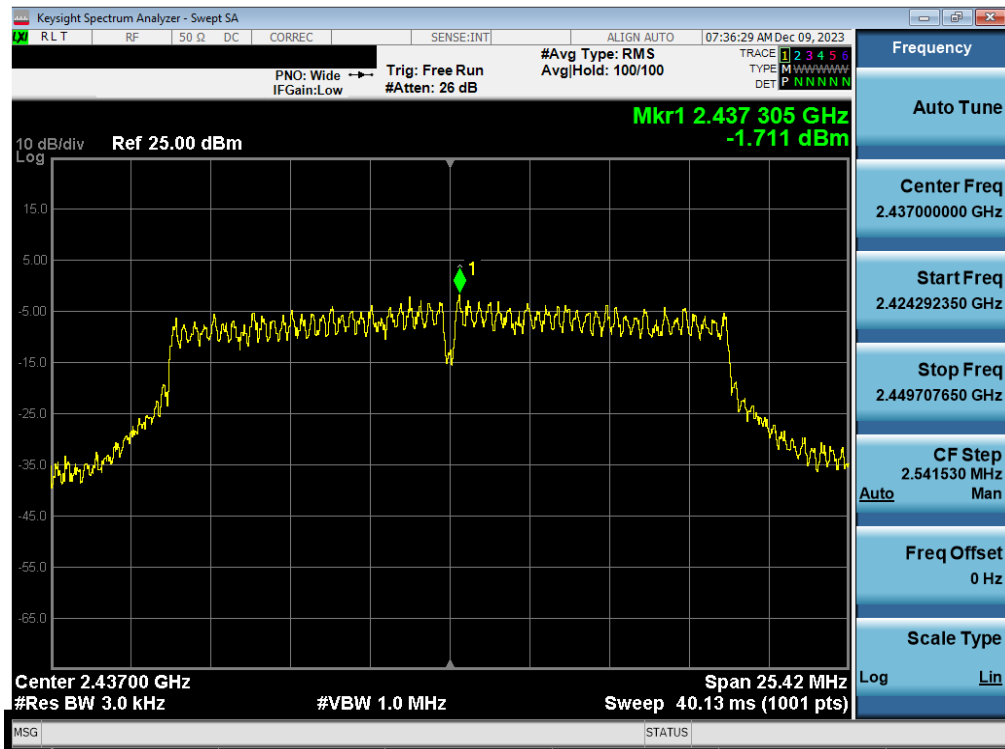


Plot 7-128. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS10

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 105 of 388

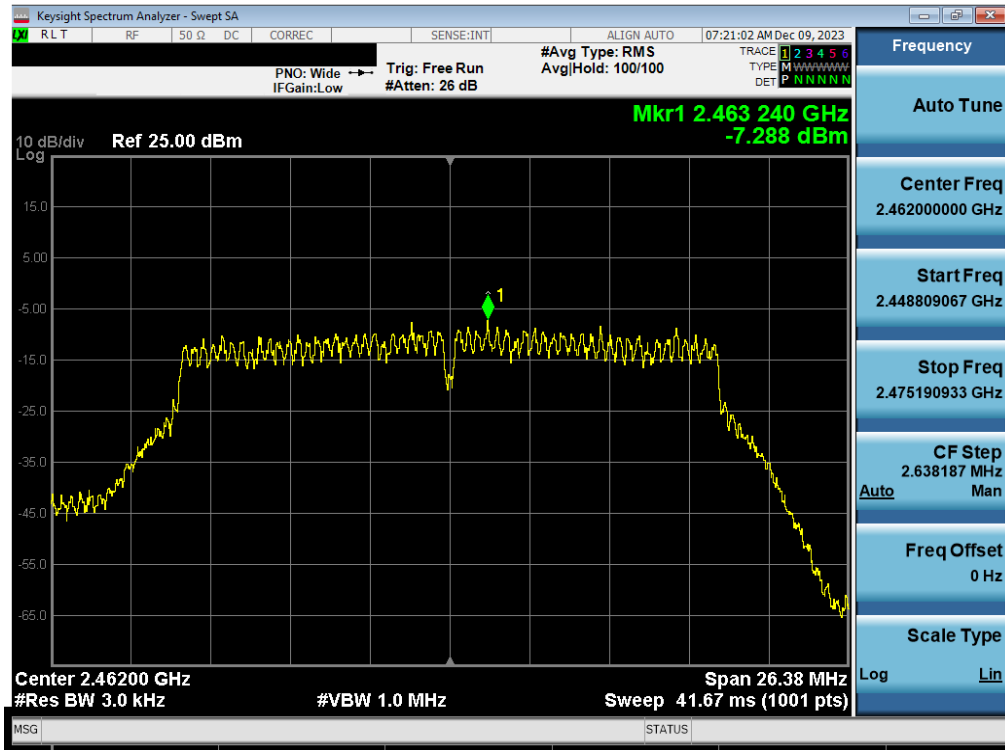


Plot 7-129. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS10

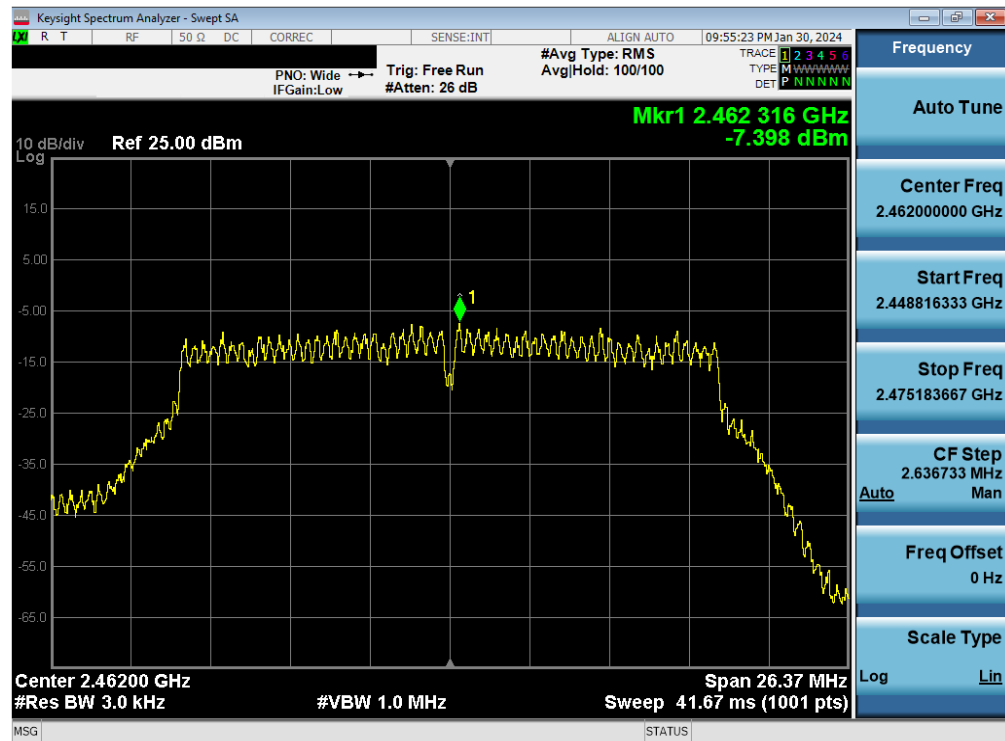


Plot 7-130. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS10

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 106 of 388

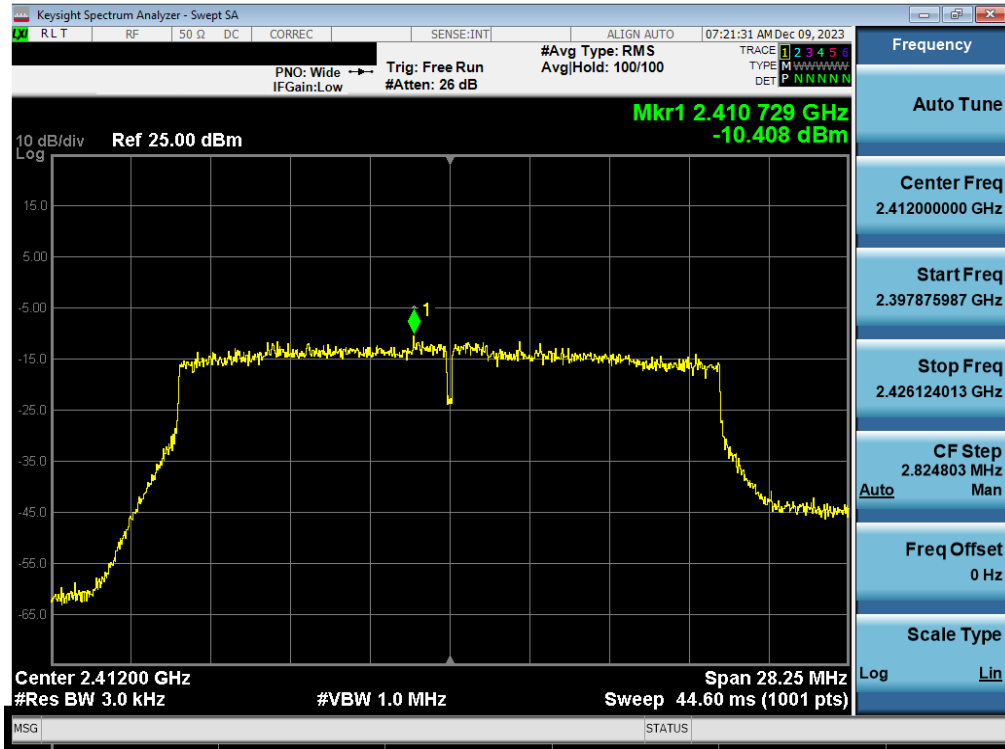


Plot 7-131. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS10

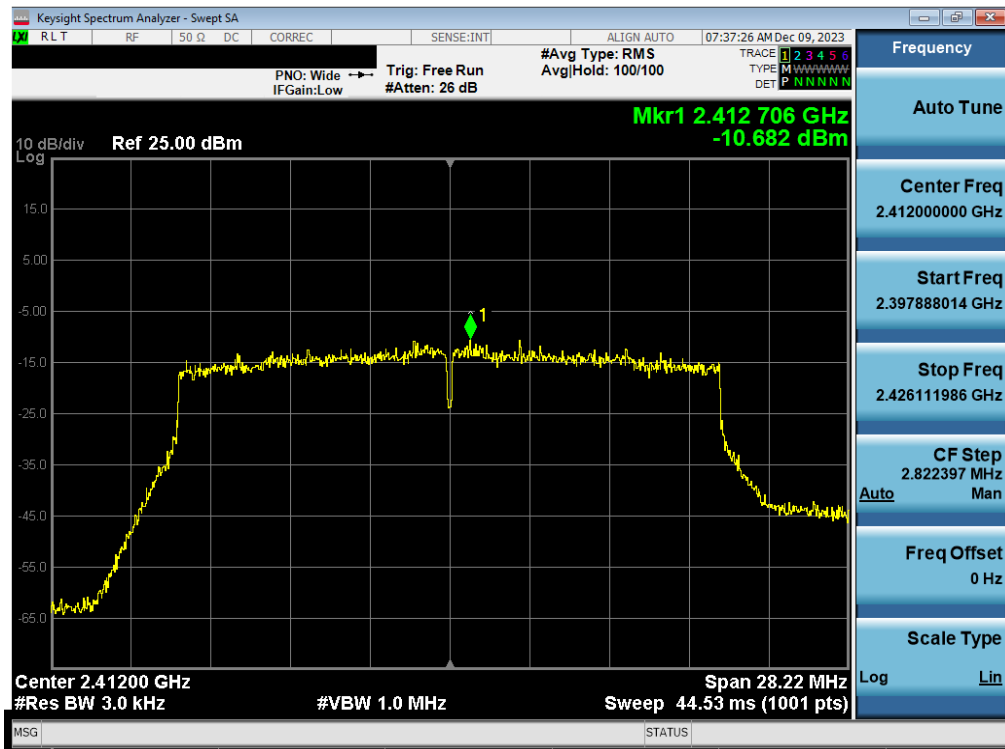


Plot 7-132. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS10

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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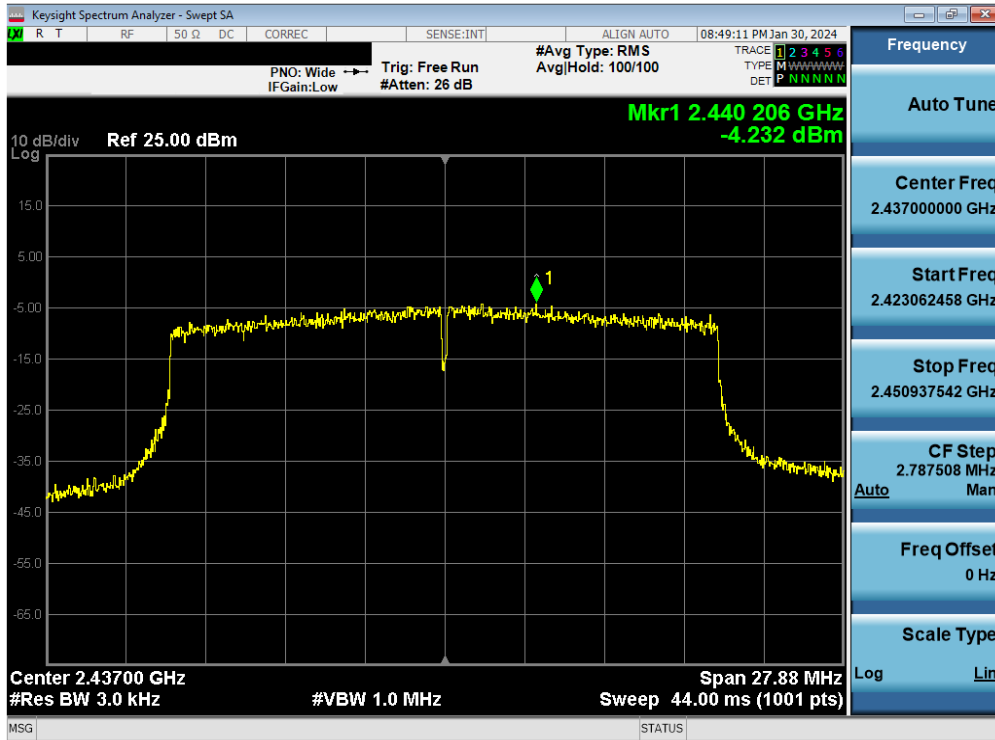


Plot 7-133. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2

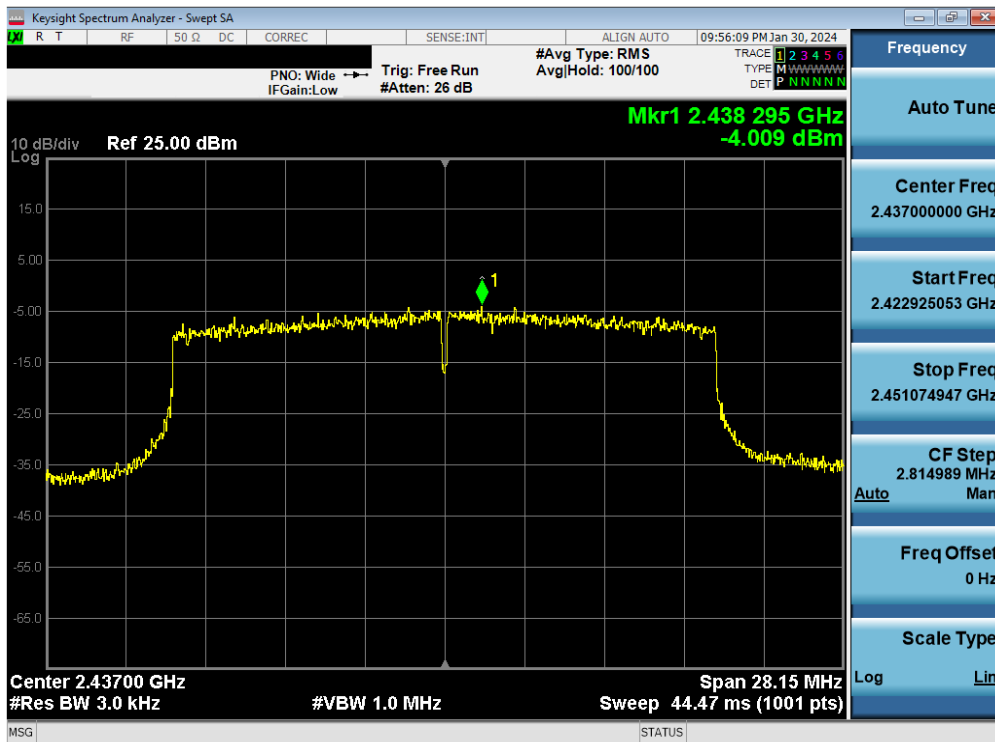


Plot 7-134. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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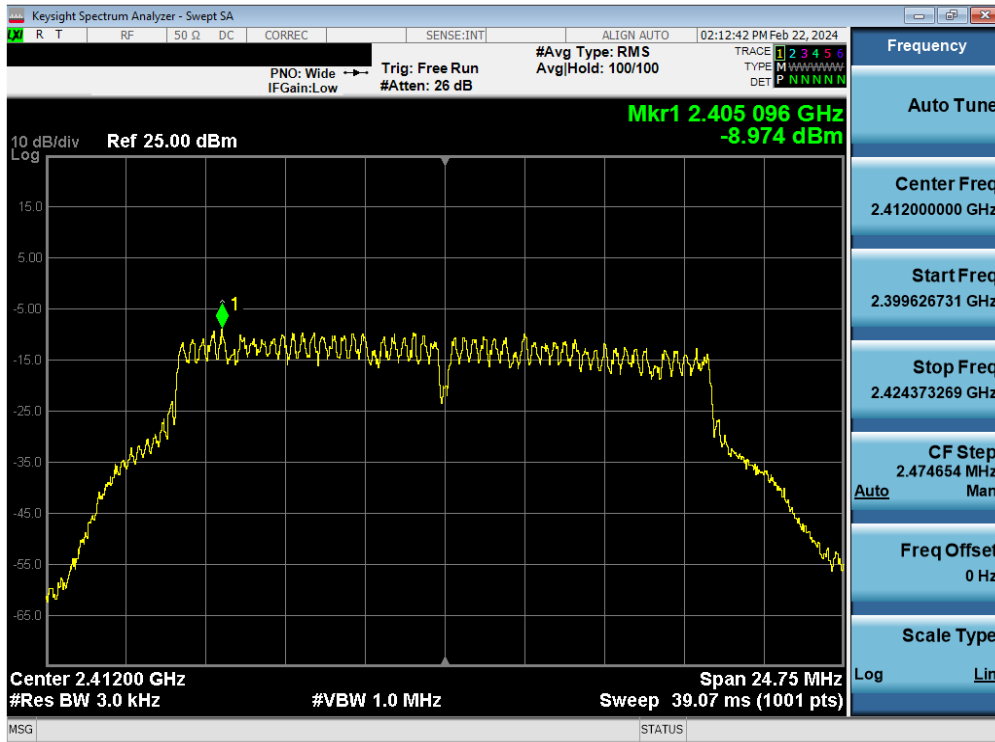
Plot 7-135. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2



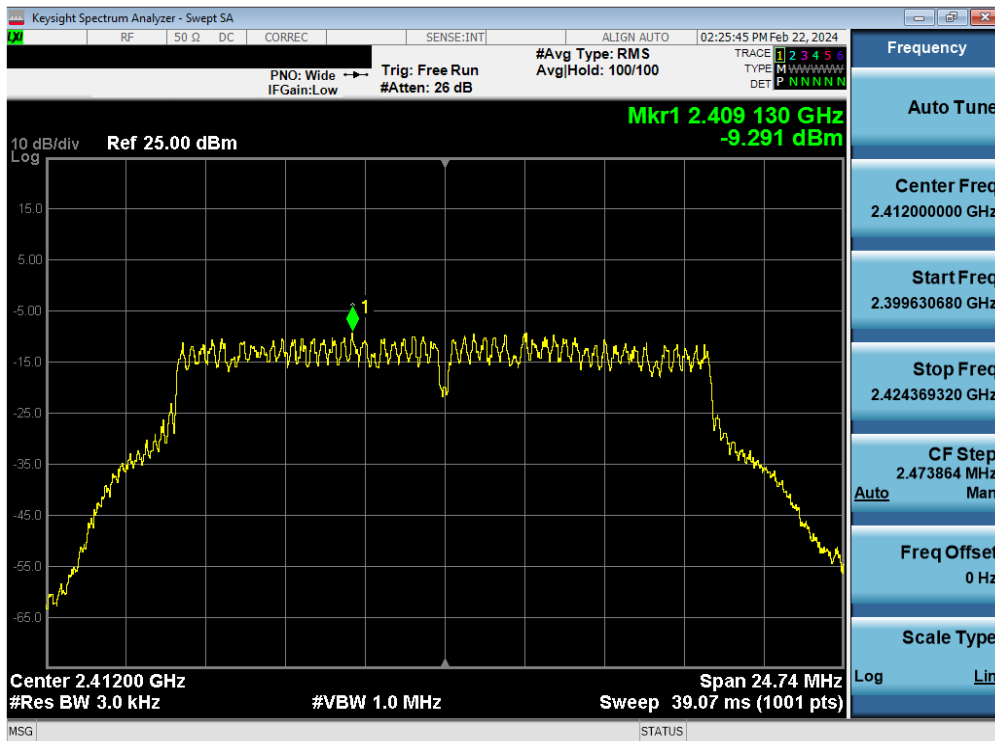
Plot 7-136. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Mid Rate

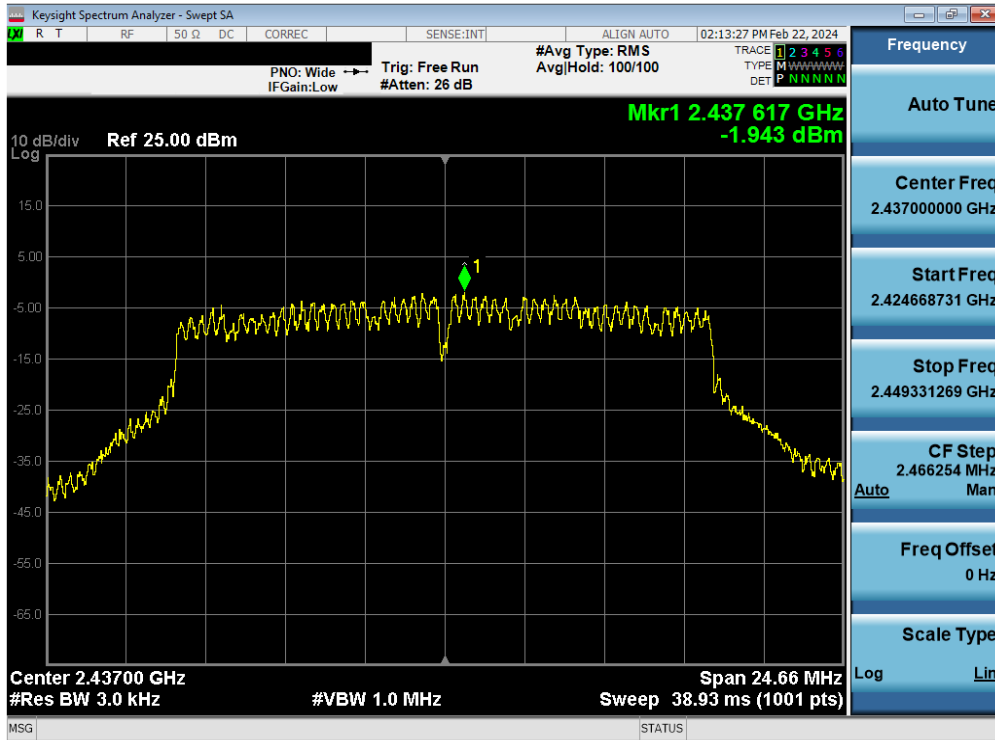


Plot 7-139. Power Spectral Density Plot CDD Antenna 3a (802.11g– Ch. 1) – 24Mbps

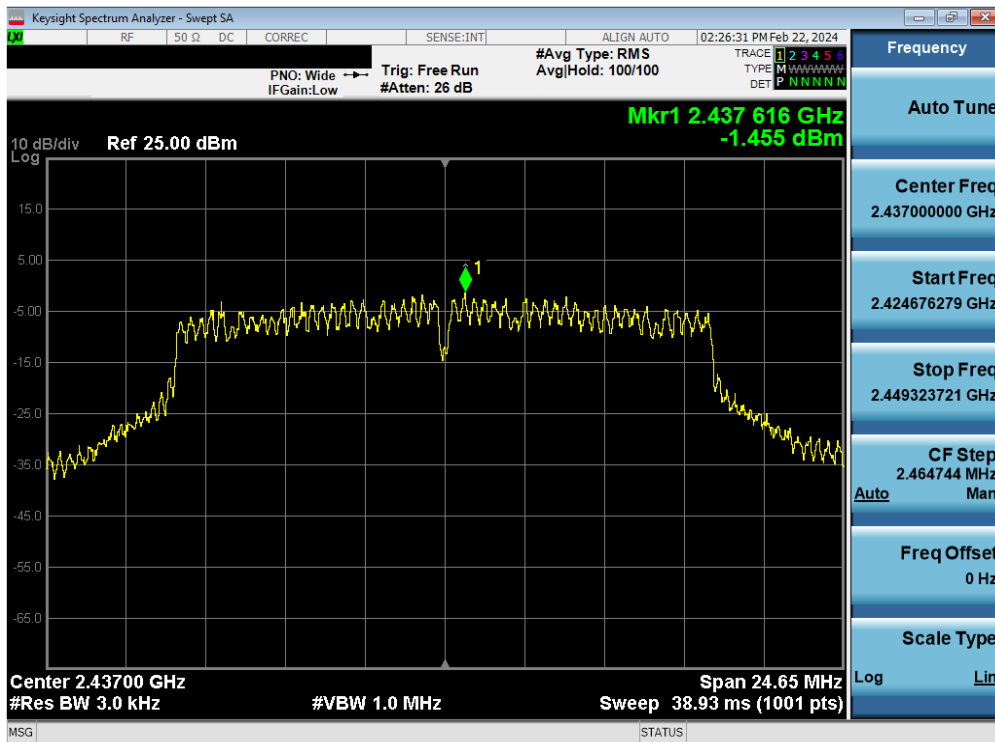


Plot 7-140. Power Spectral Density Plot CDD Antenna 1a (802.11g– Ch. 1) – 24Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 111 of 388

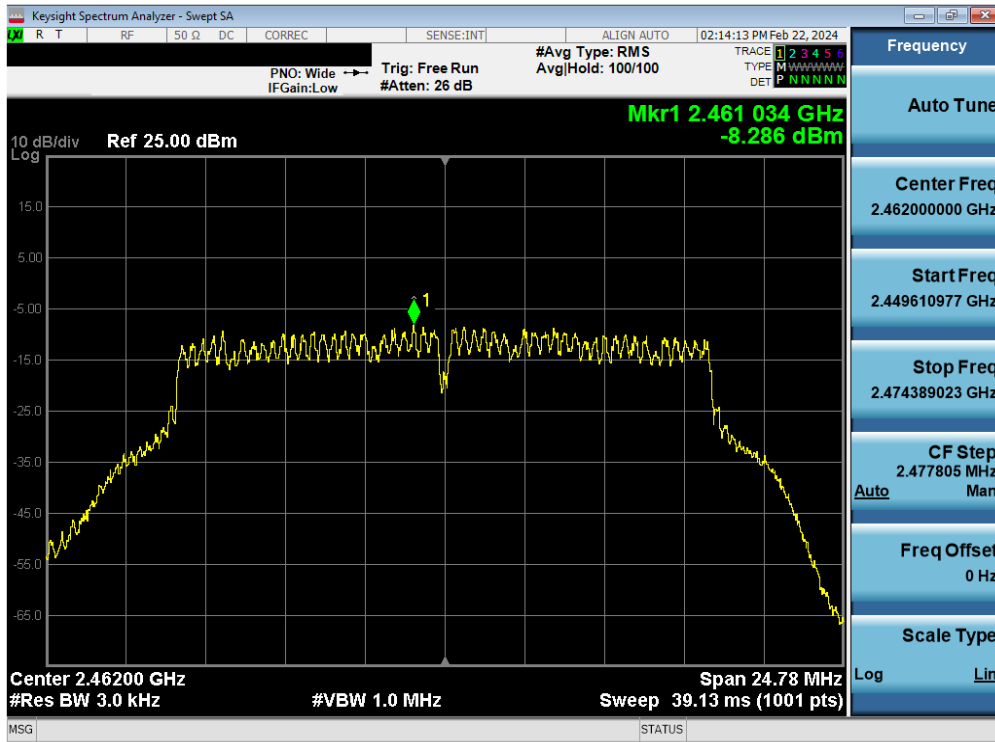


Plot 7-141. Power Spectral Density Plot CDD Antenna 3a (802.11g– Ch. 6) – 24Mbps

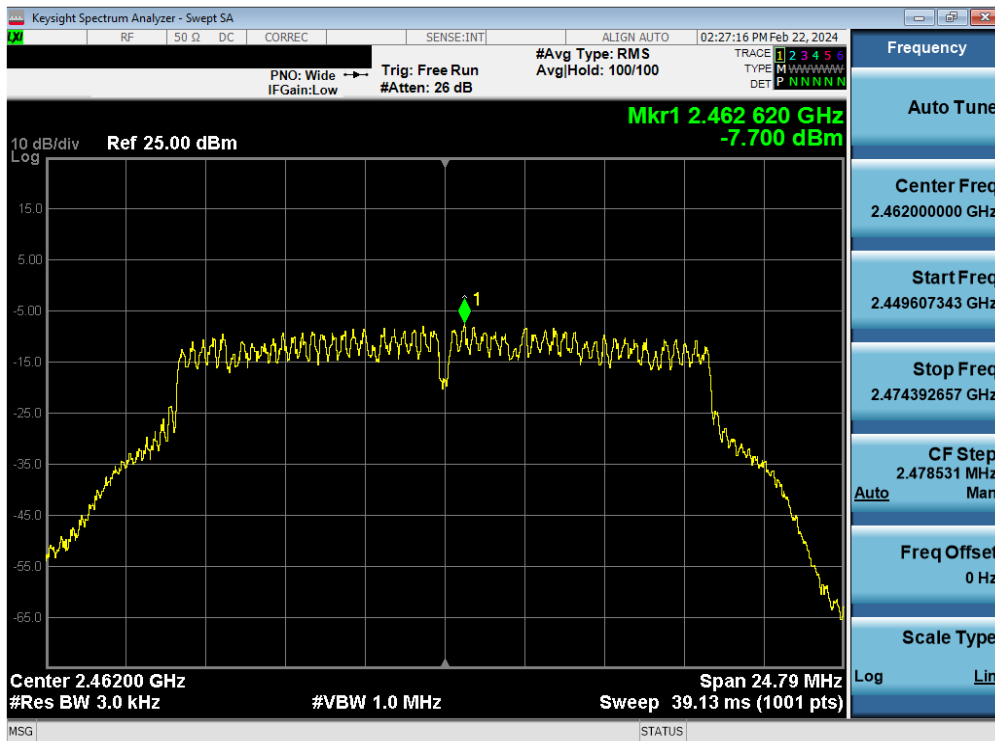


Plot 7-142. Power Spectral Density Plot CDD Antenna 1a (802.11g– Ch. 6) – 24Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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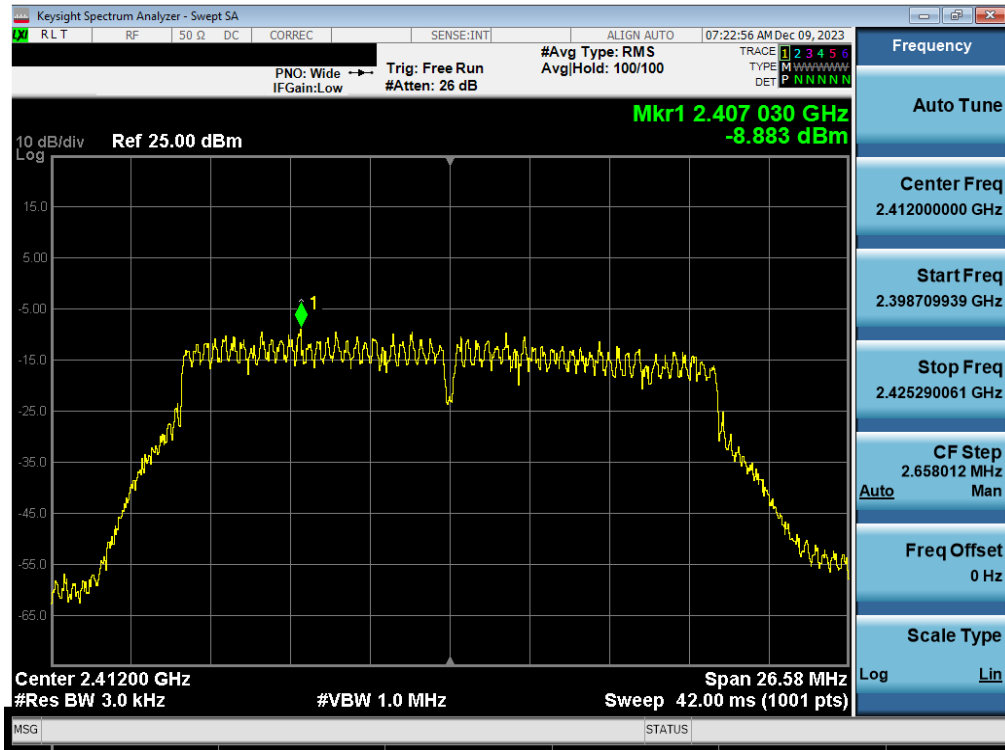


Plot 7-143. Power Spectral Density Plot CDD Antenna 3a (802.11g– Ch. 11) – 24Mbps

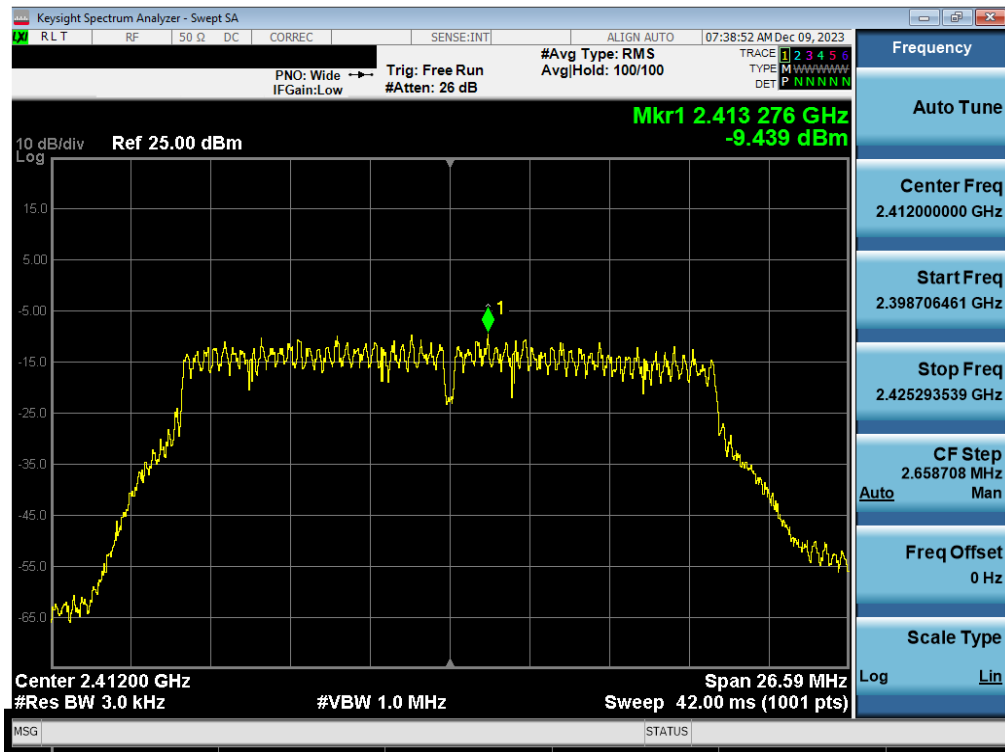


Plot 7-144. Power Spectral Density Plot CDD Antenna 1a (802.11g– Ch. 11) – 24Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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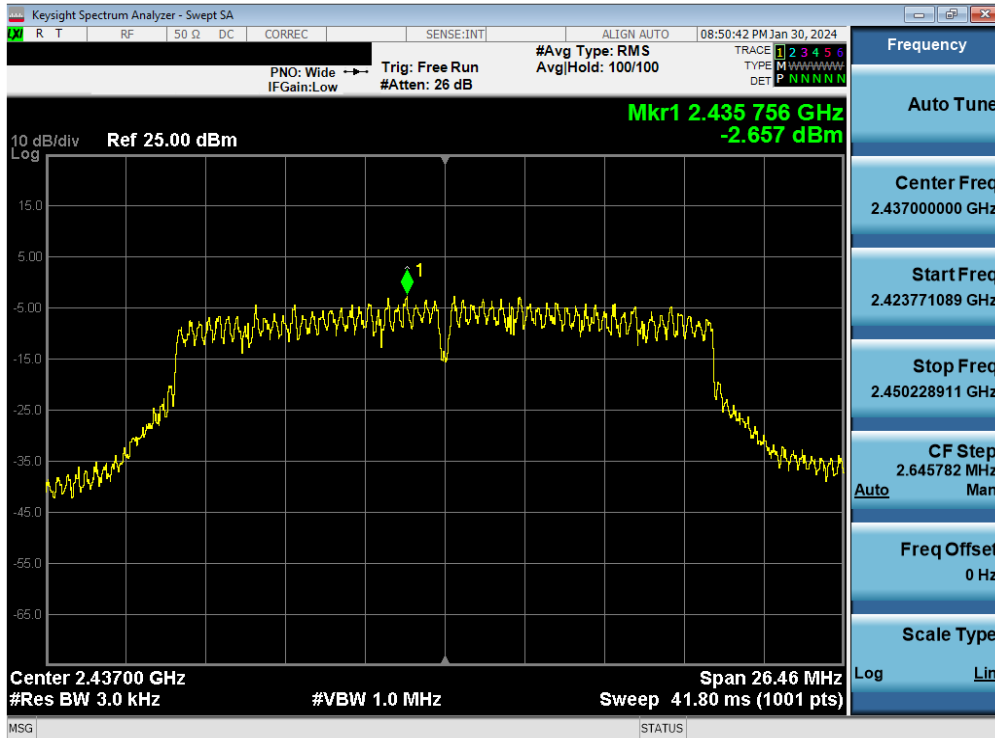


Plot 7-145. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS12

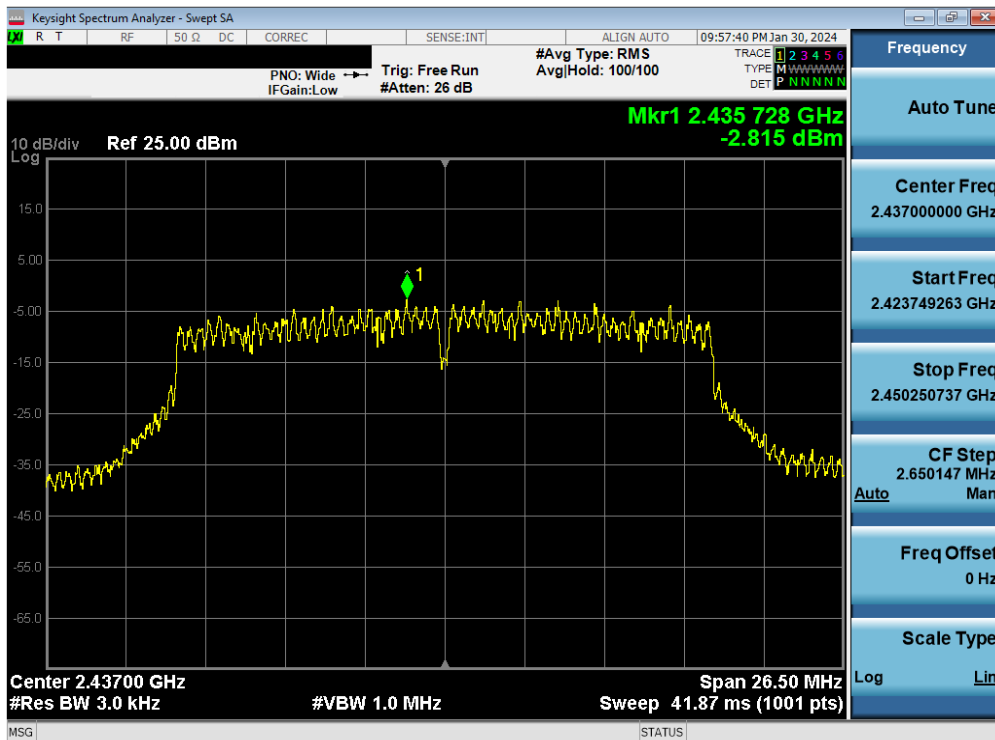


Plot 7-146. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS12

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 114 of 388

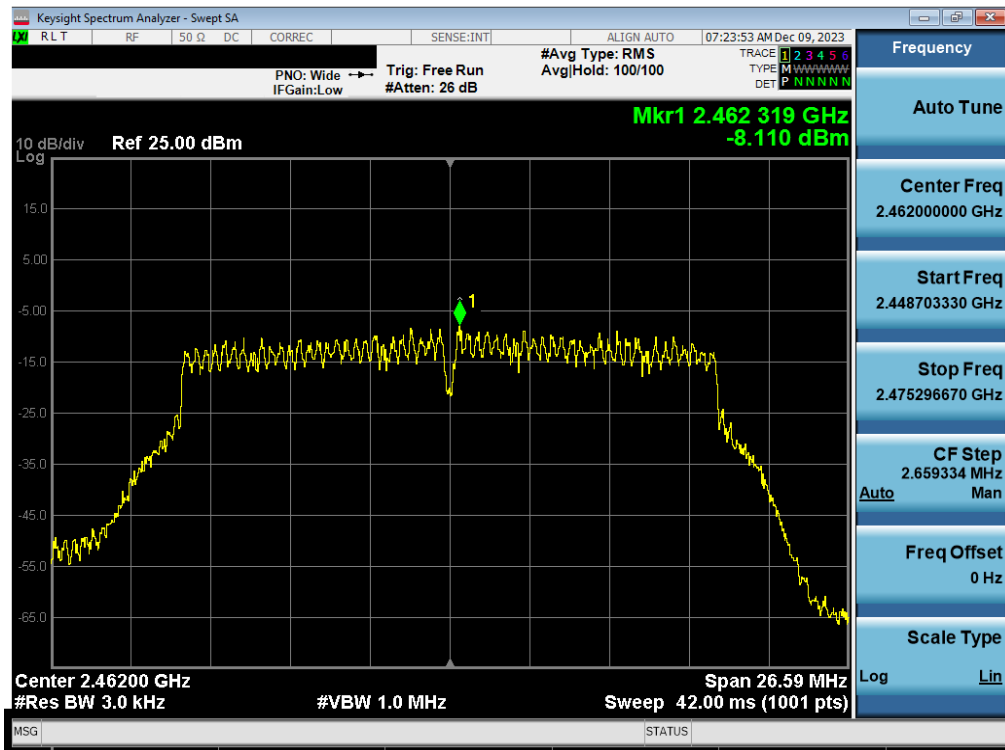


Plot 7-147. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS12

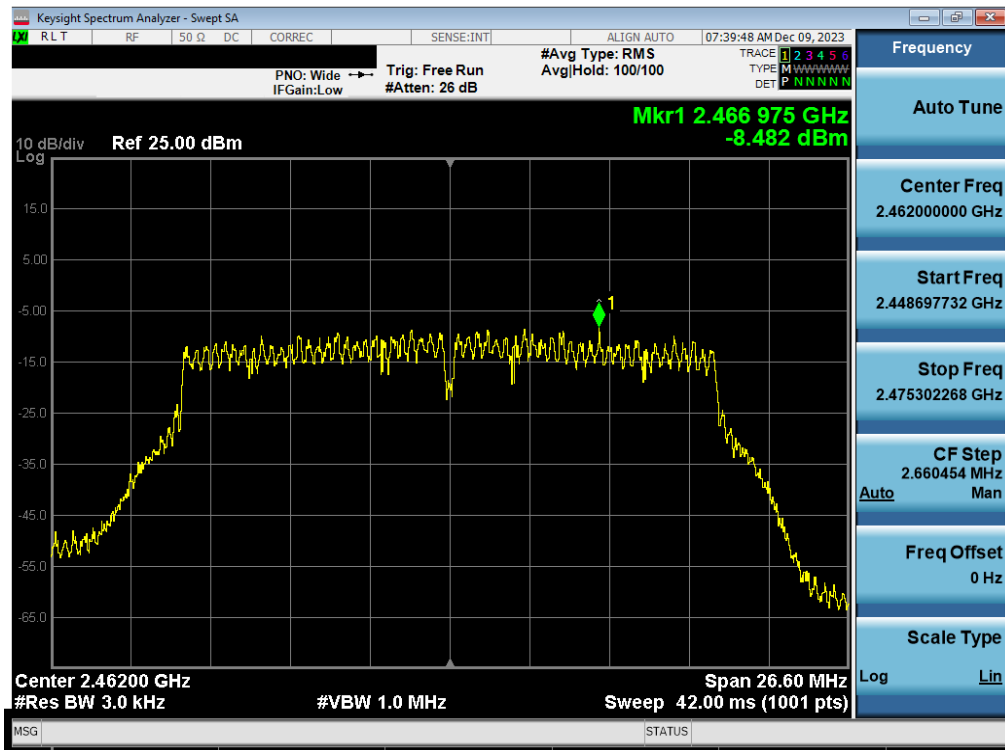


Plot 7-148. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS12

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 115 of 388

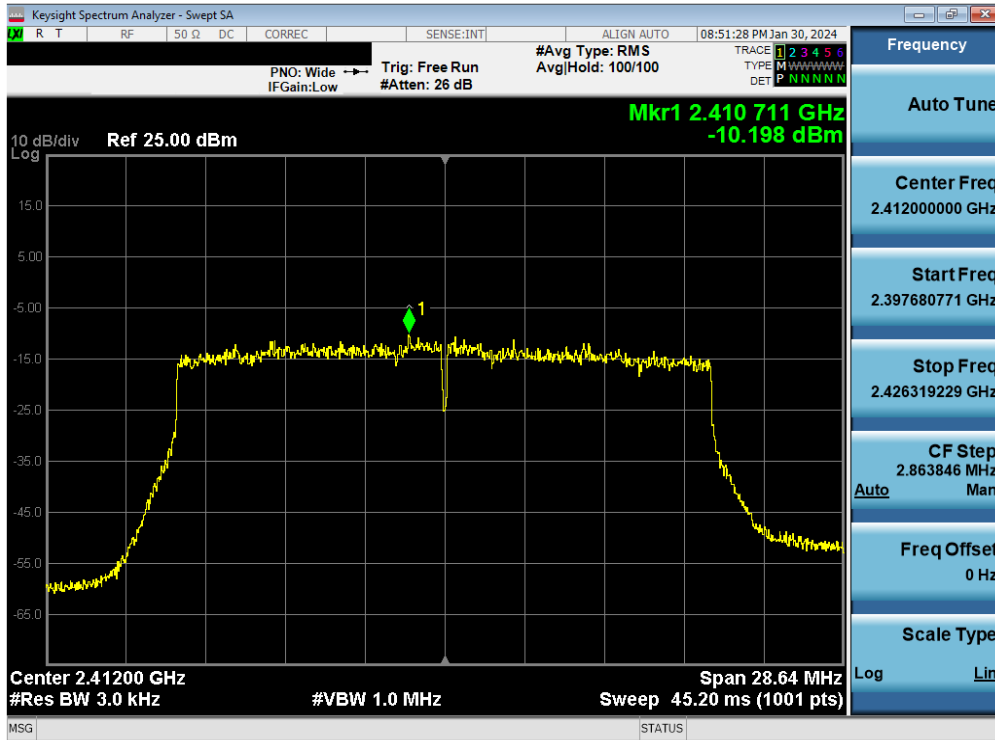


Plot 7-149. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS12

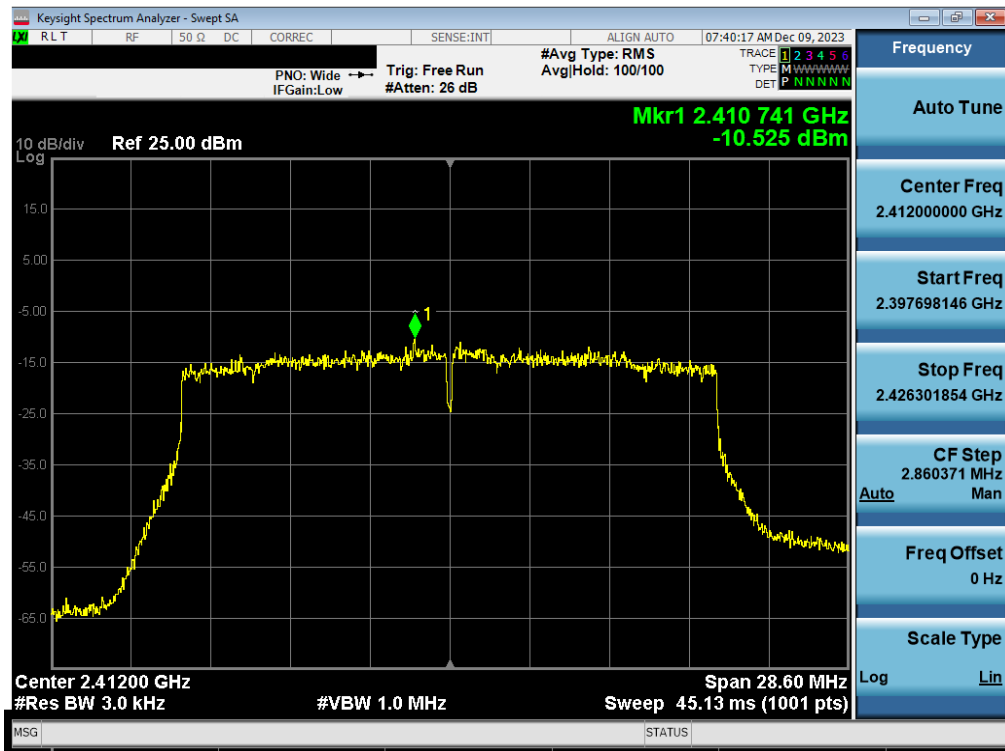


Plot 7-150. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS12

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 116 of 388

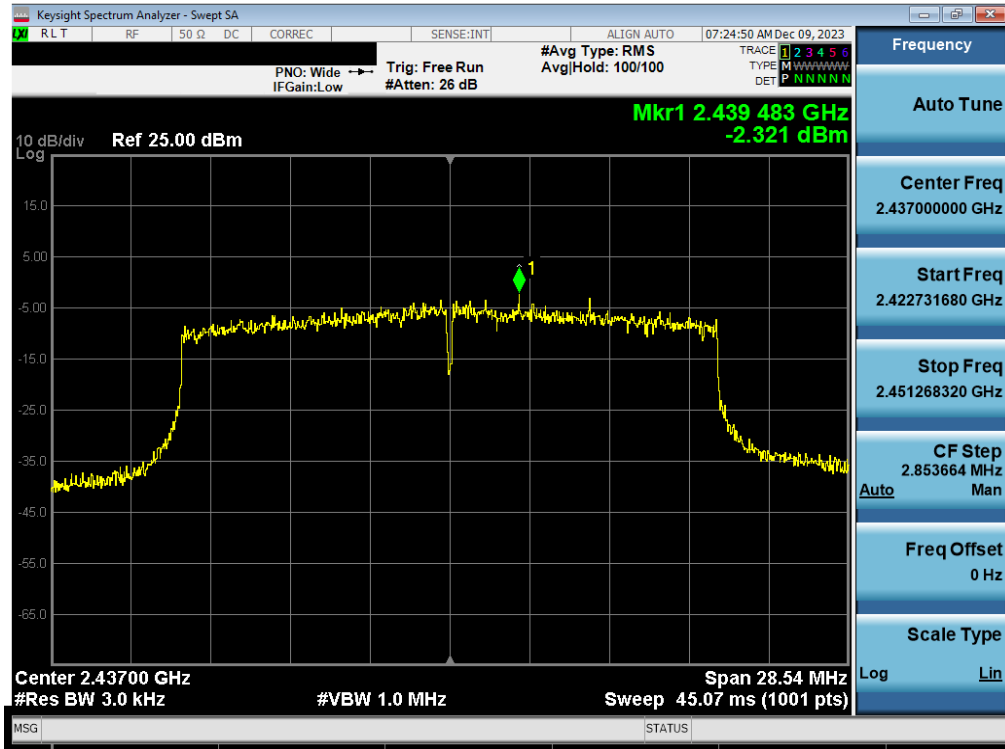


Plot 7-151. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4

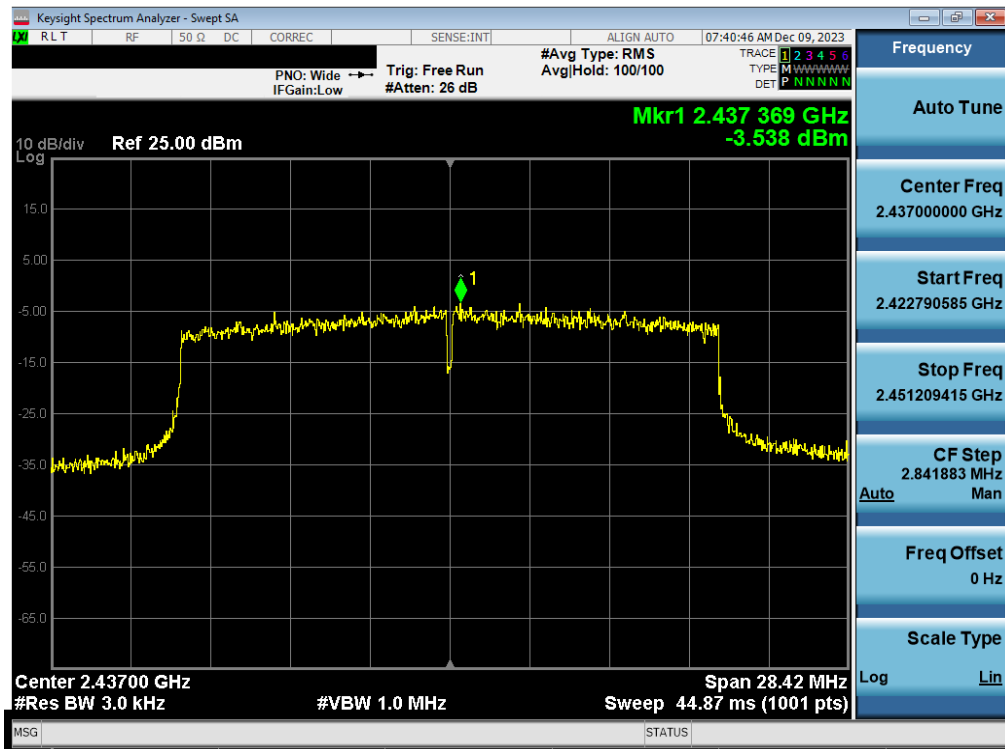


Plot 7-152. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 117 of 388

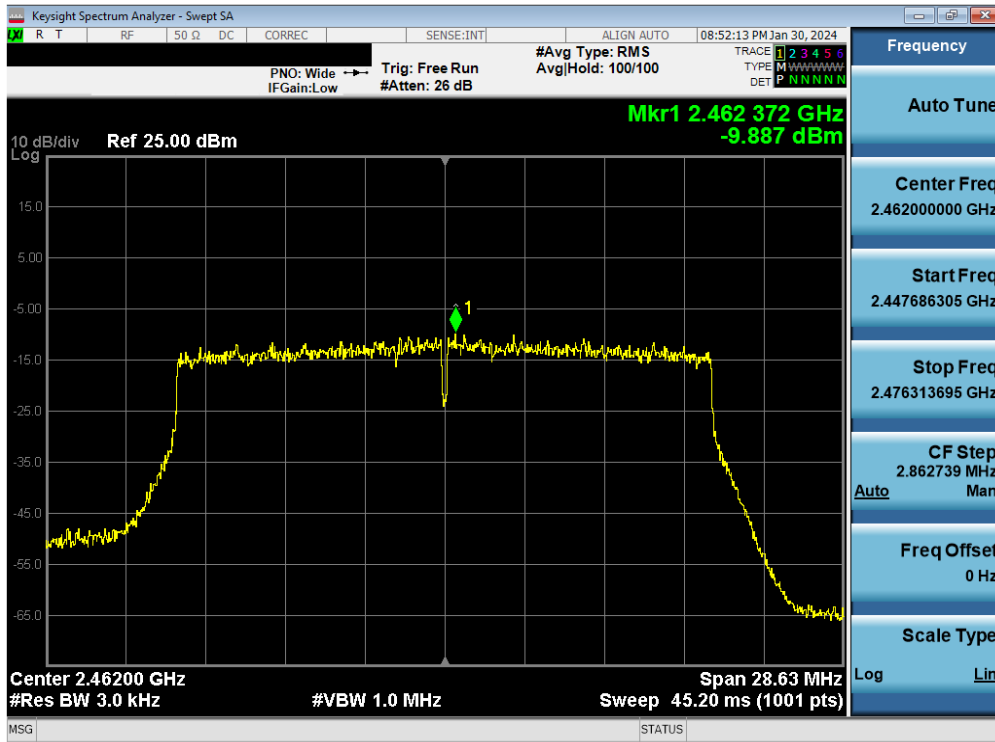


Plot 7-153. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

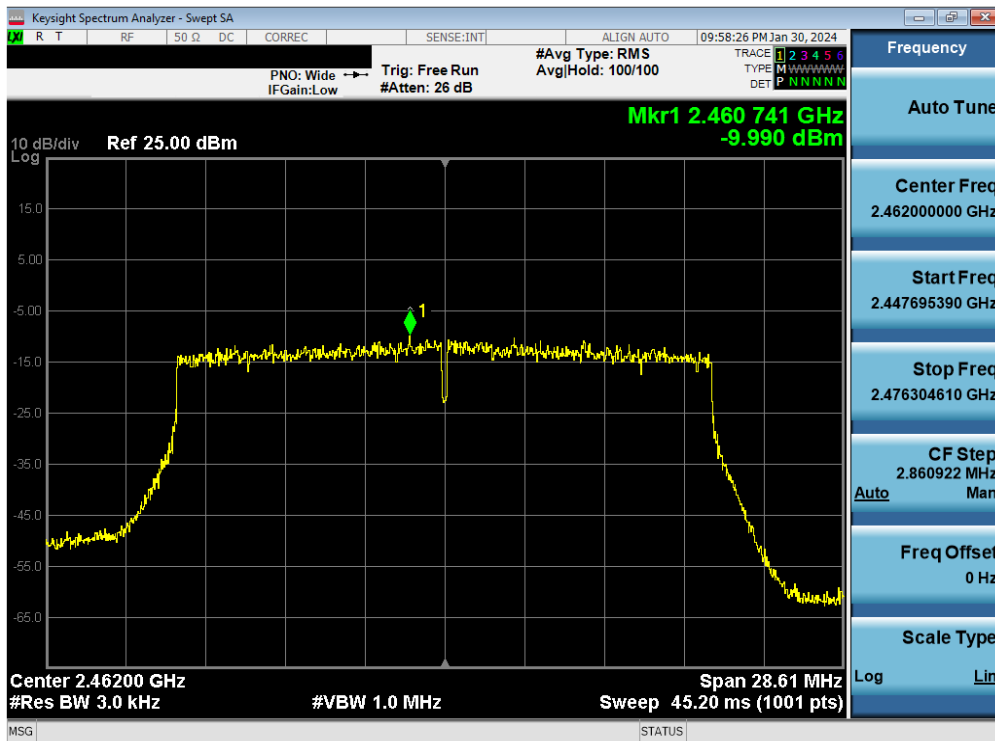


Plot 7-154. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 118 of 388



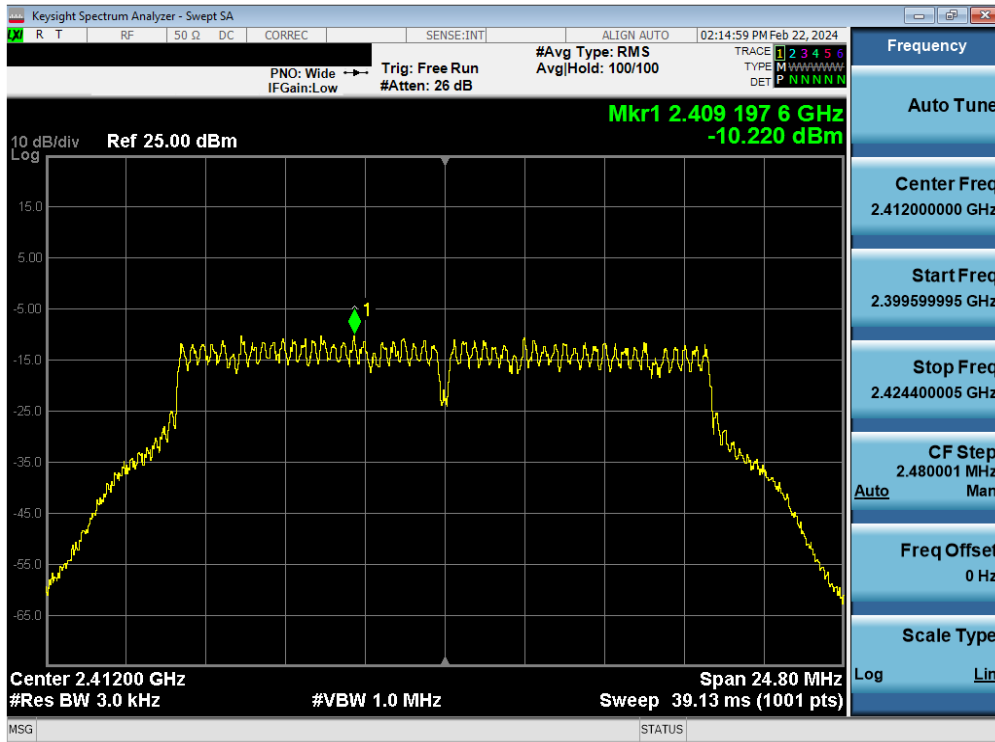
Plot 7-155. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4



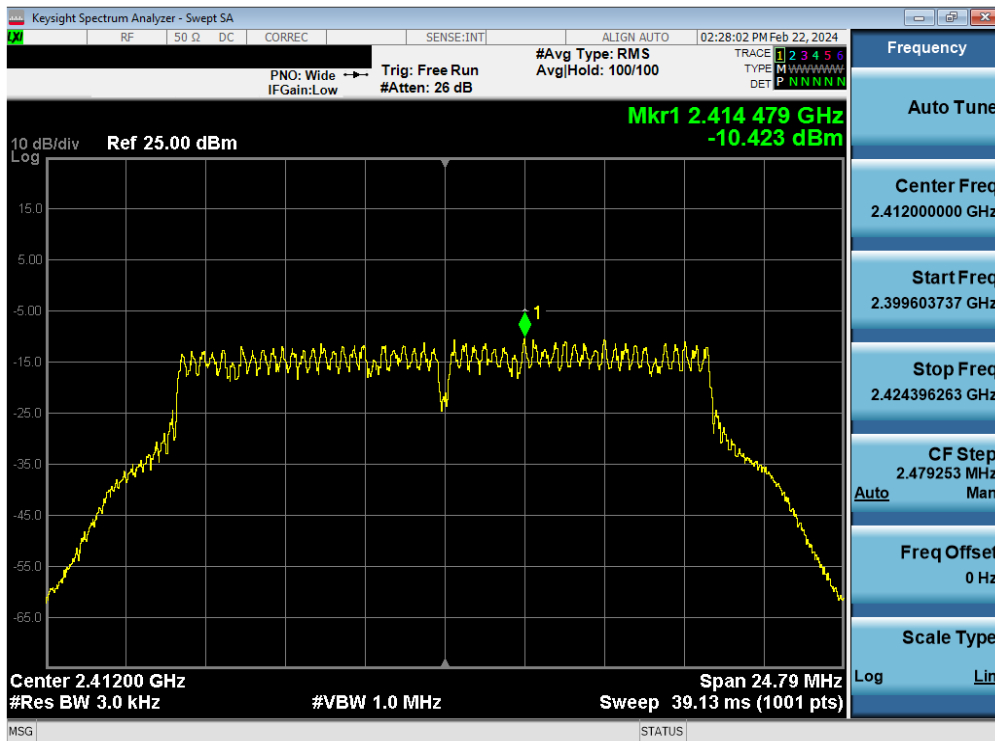
Plot 7-156. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 119 of 388

High Rate

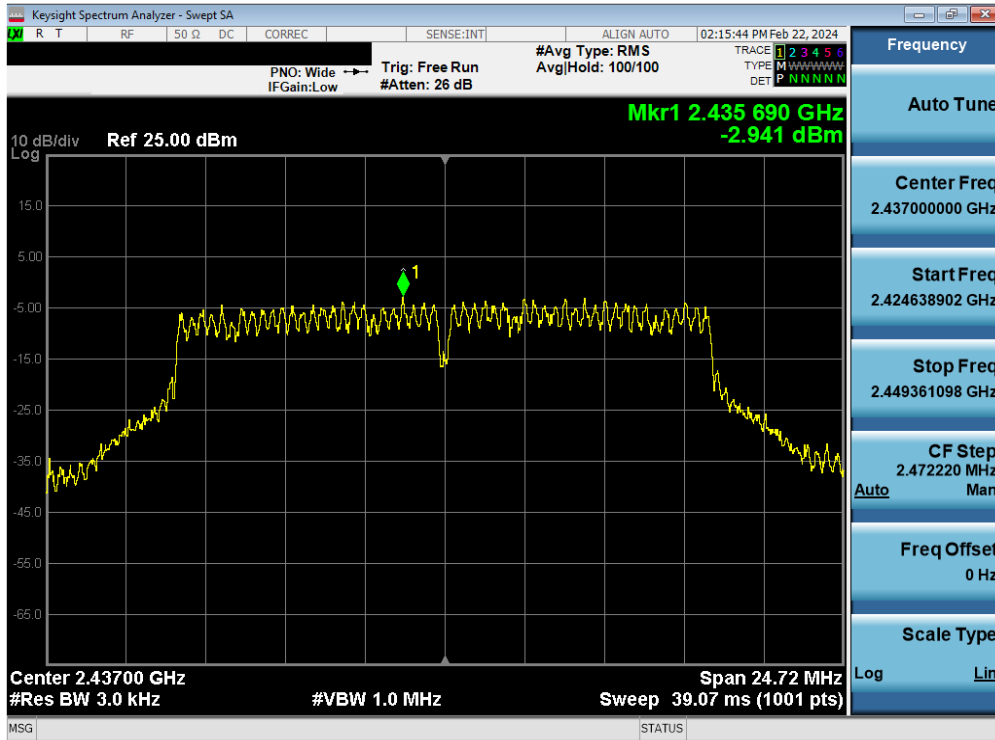


Plot 7-157. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 1) – 54Mbps

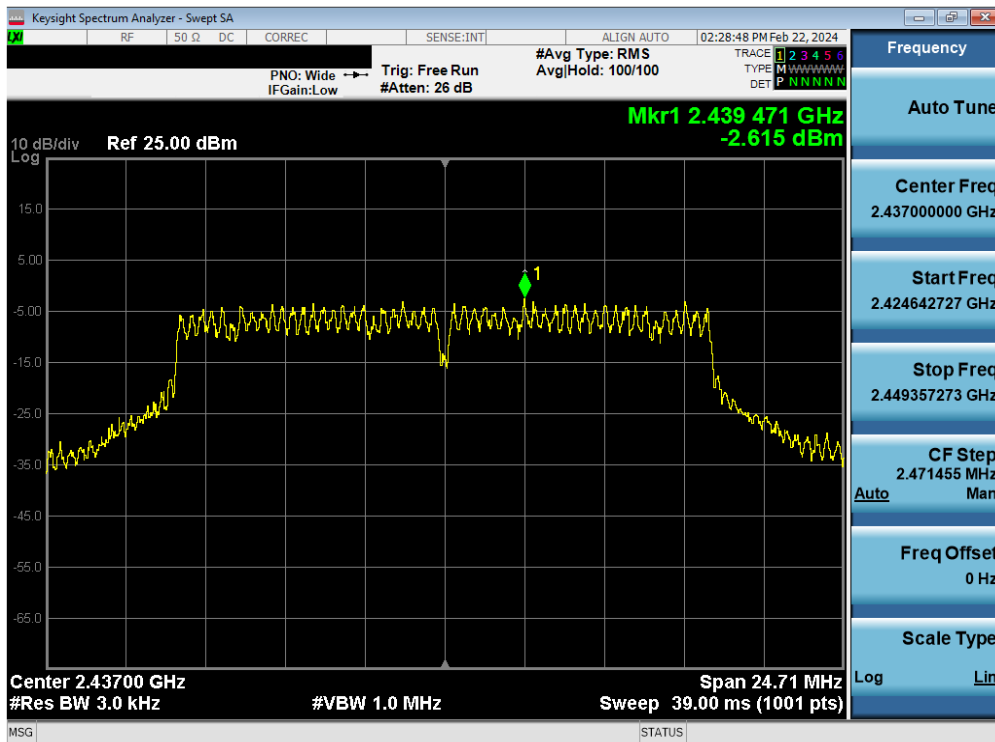


Plot 7-158. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 120 of 388

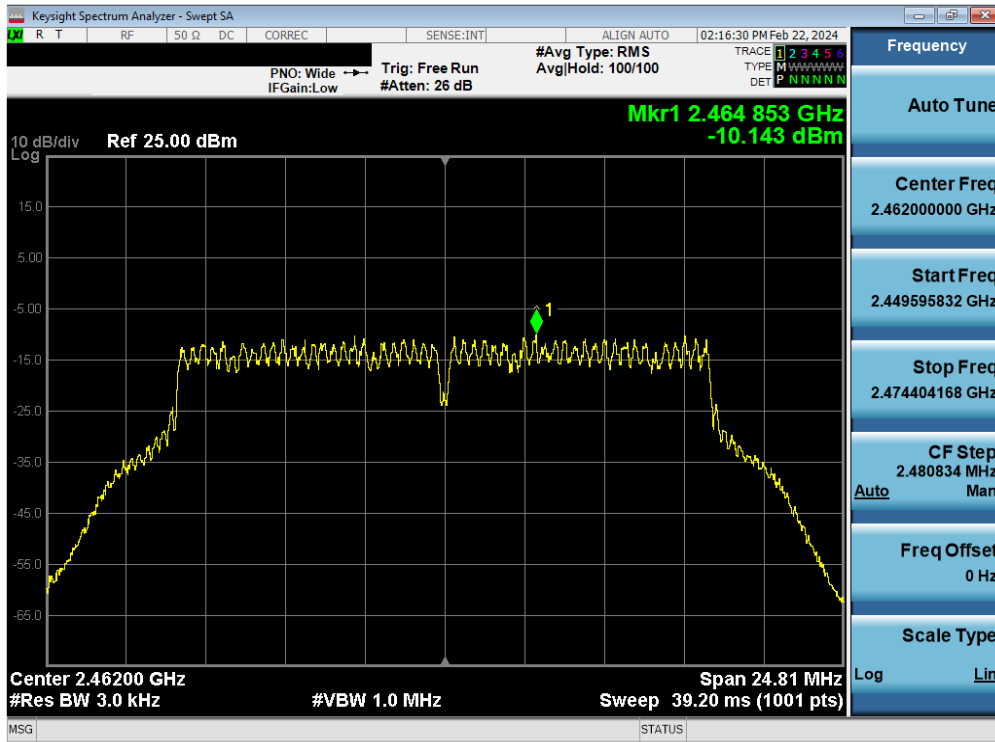


Plot 7-159. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 6) – 54Mbps

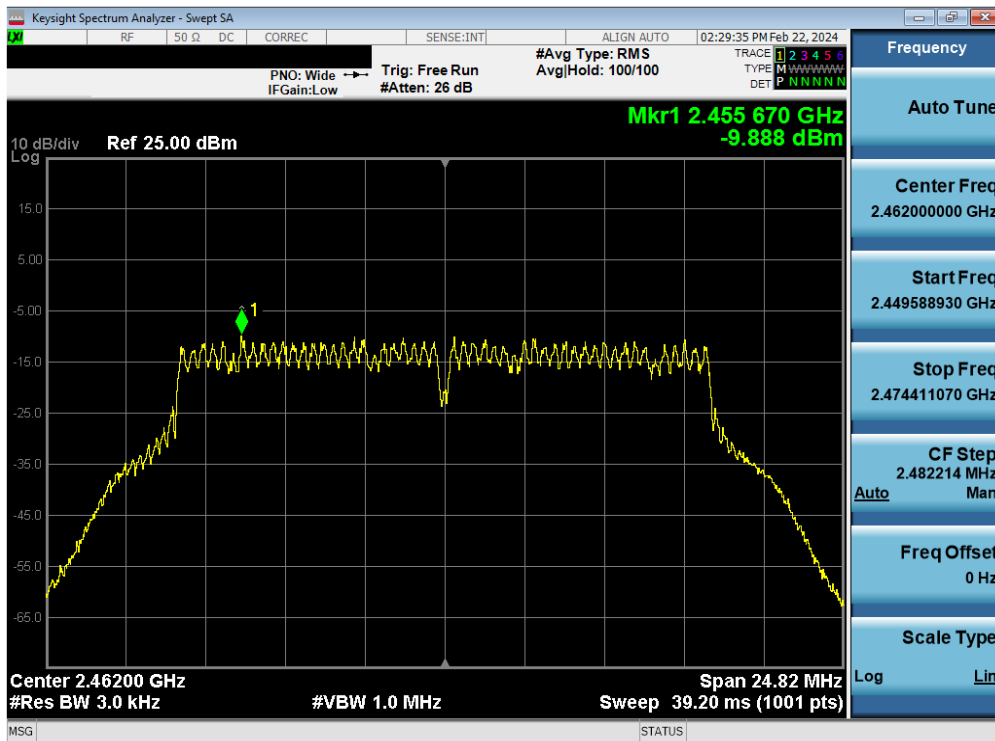


Plot 7-160. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 6) – 54Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 121 of 388

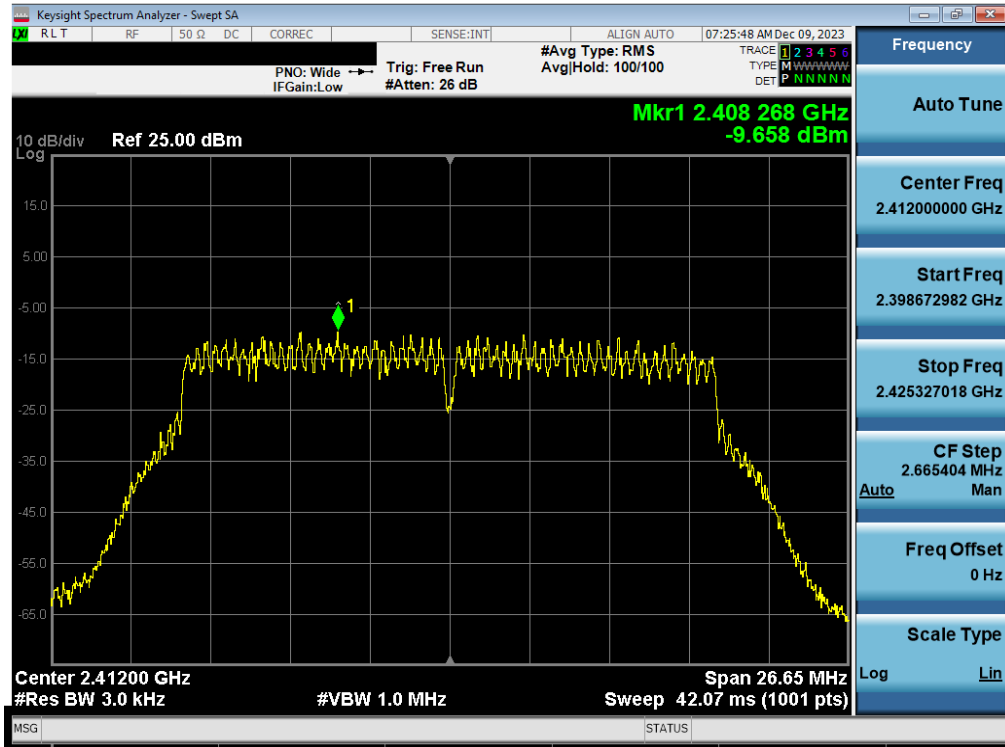


Plot 7-161. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 11) – 54Mbps

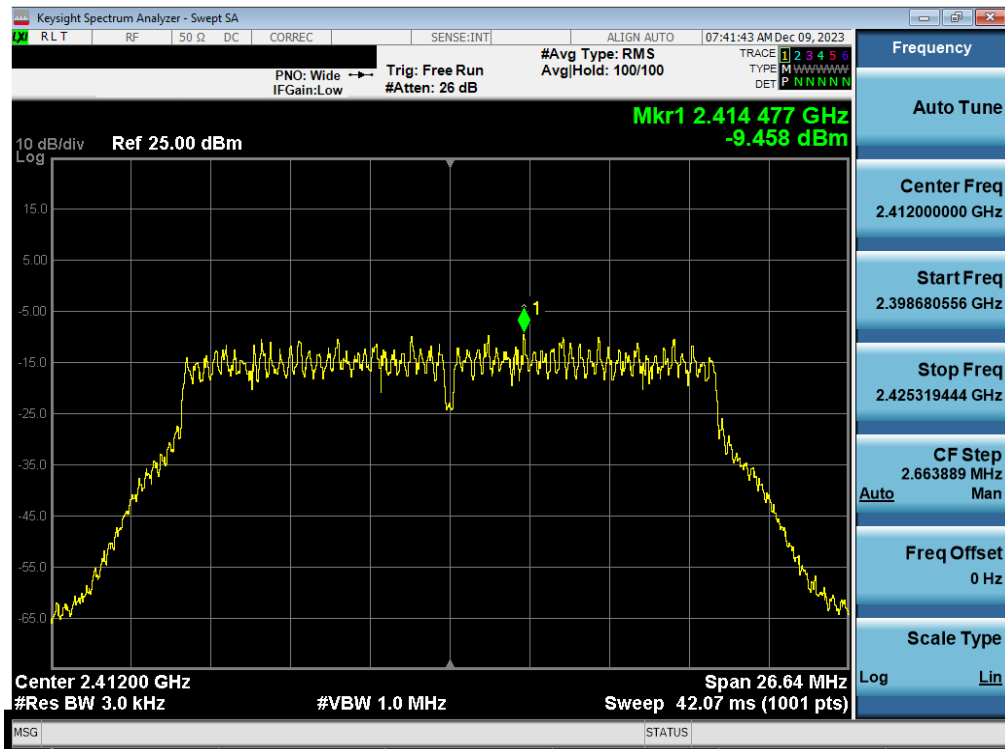


Plot 7-162. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 122 of 388

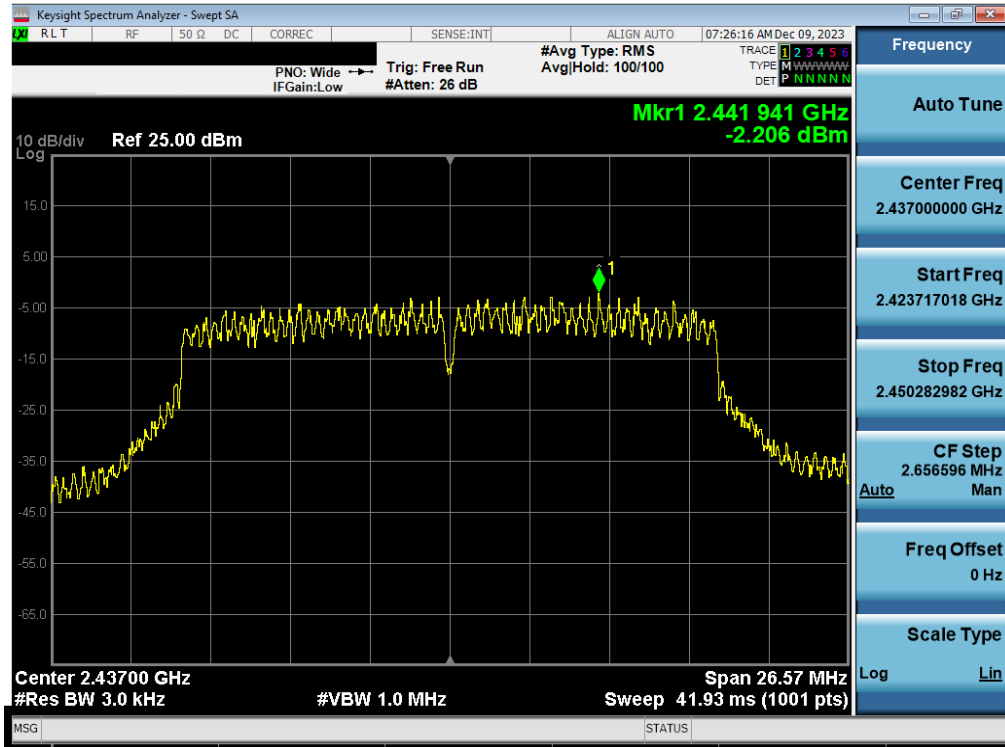


Plot 7-163. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS15

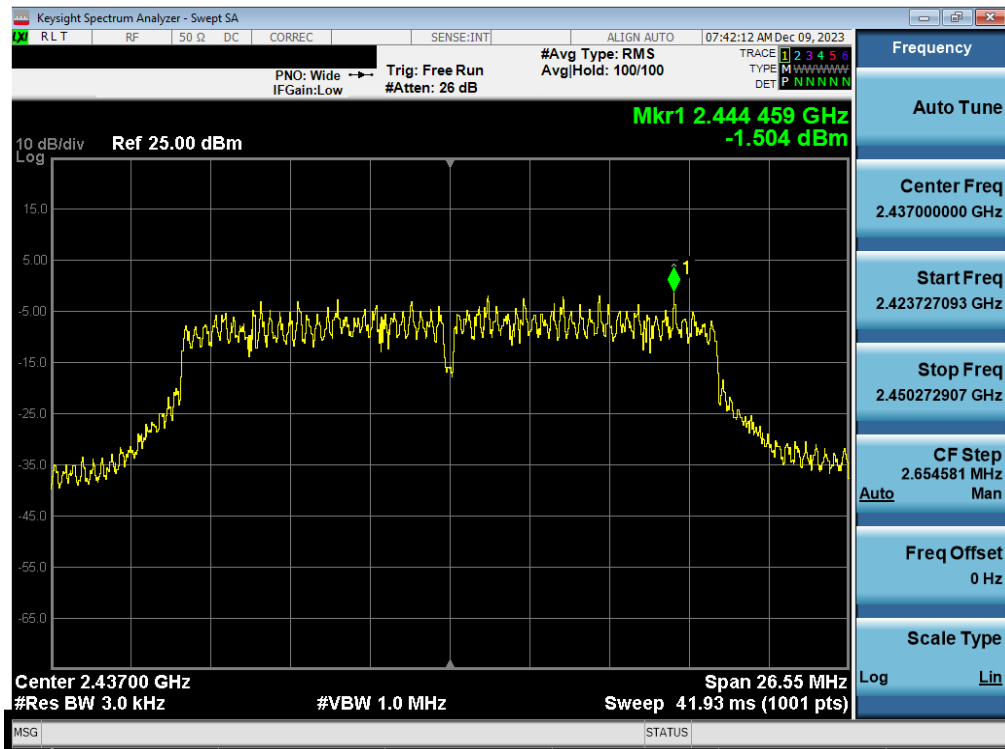


Plot 7-164. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS15

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 123 of 388

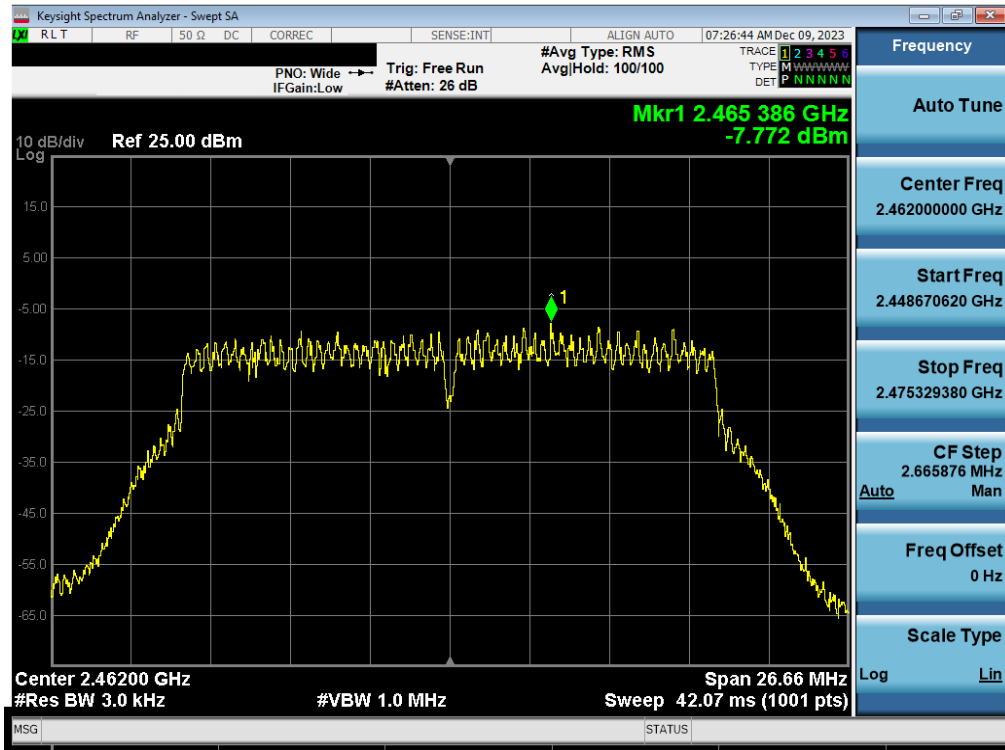


Plot 7-165. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS15

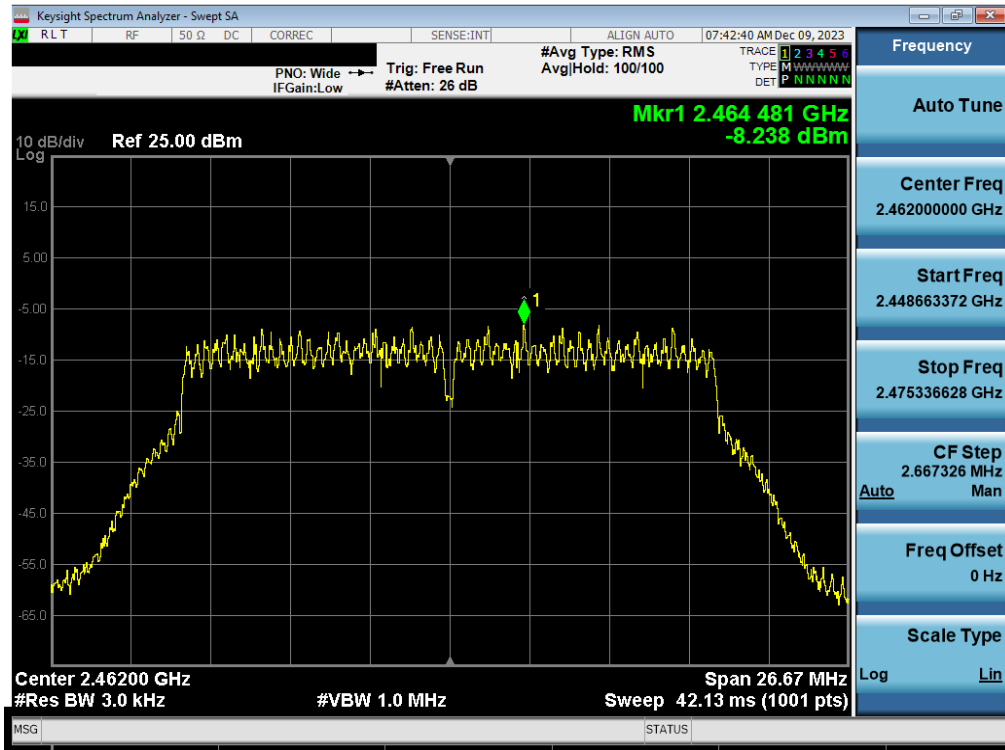


Plot 7-166. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS15

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 124 of 388

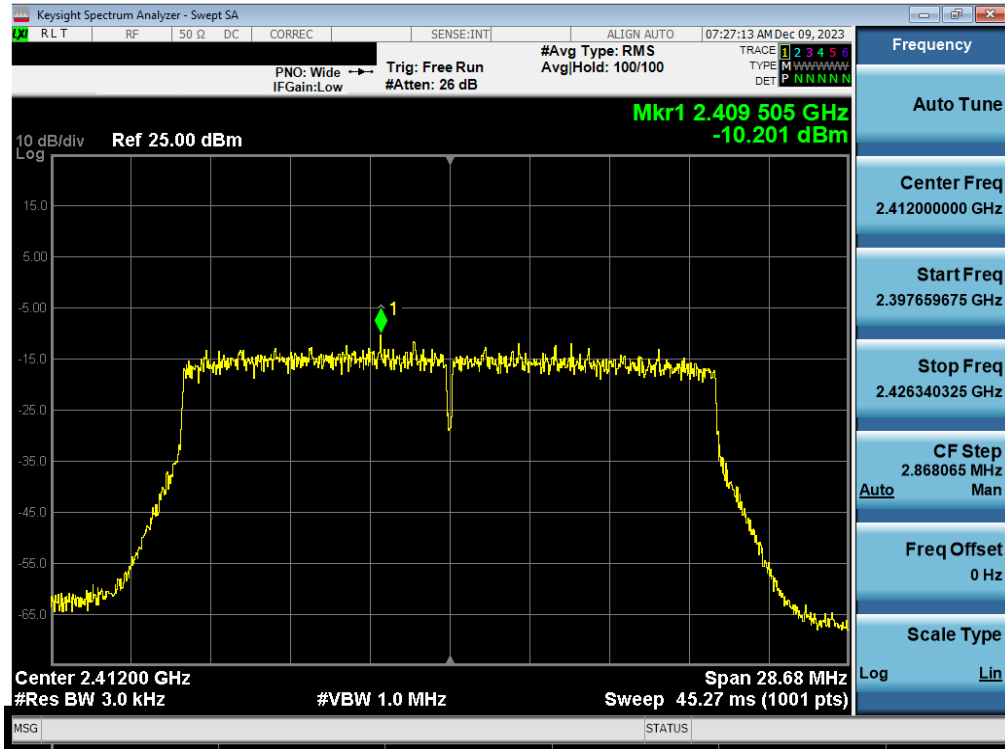


Plot 7-167. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS15

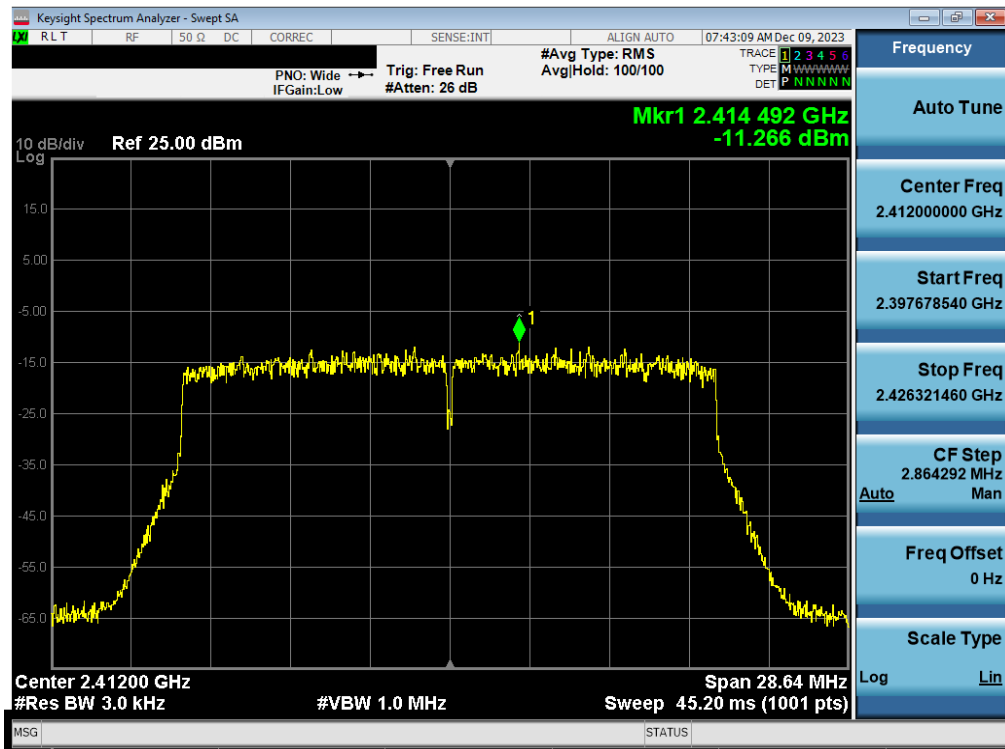


Plot 7-168. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS15

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 125 of 388

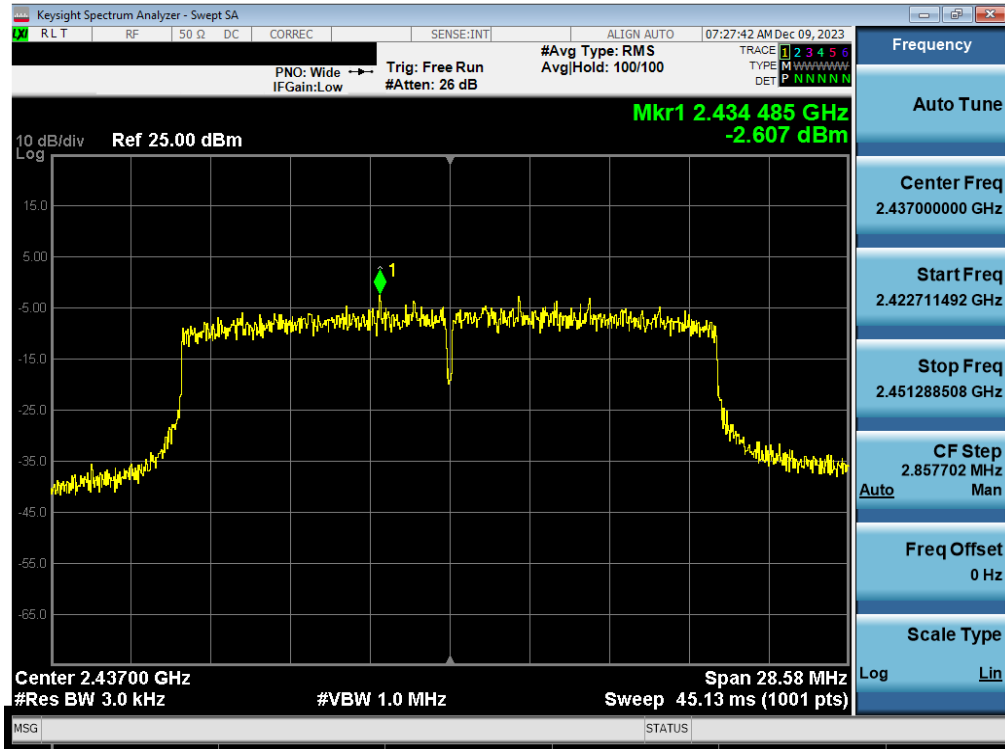


Plot 7-169. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

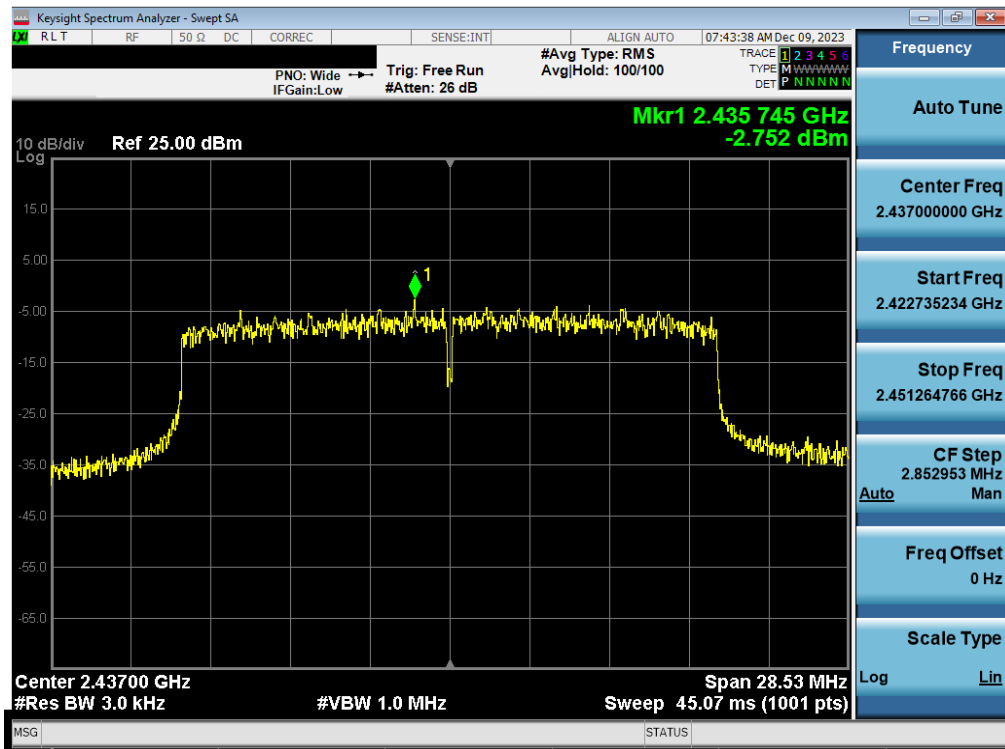


Plot 7-170. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 126 of 388

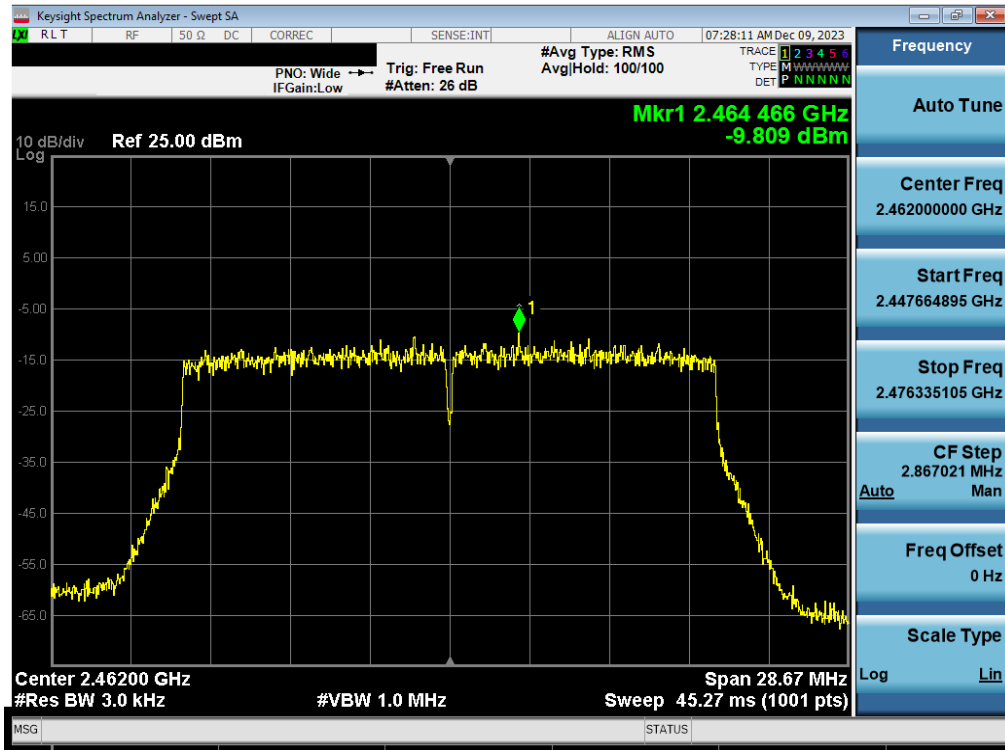


Plot 7-171. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9

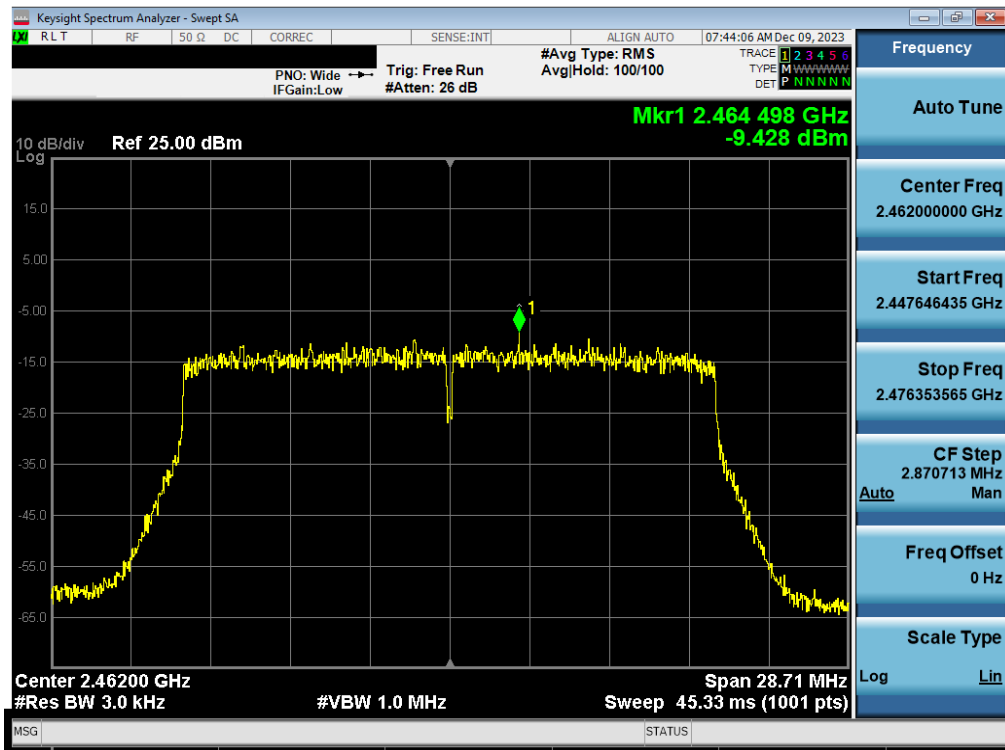


Plot 7-172. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 127 of 388



Plot 7-173. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9



Plot 7-174. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 128 of 388

Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 D01 v02r01 Section E)2), the power spectral density at Antenna 3a and Antenna 1a 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 CDD Calculation:

At 2412MHz the average conducted power spectral density was measured to be -10.22 dBm for Antenna 3a and -10.42 dBm for Antenna 1a.

$$\text{Antenna 3a} + \text{Antenna 1a} = \text{CDD}$$

$$(-10.22 \text{ dBm} + -10.42 \text{ dBm}) = (0.095 \text{ mW} + 0.091 \text{ mW}) = 0.186 \text{ mW} = -7.31 \text{ dBm}$$

FCC ID: BCGA2899 IC: 579C-A2899	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 11Mbps for “b” mode, 12, 24, 54 Mbps for “g” mode, 19.5/21.7, 39/43.3, 65/72.2Mbps for “n” mode, and 24/25.8, 49/51.6, 81/86 for “ax-SU” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

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

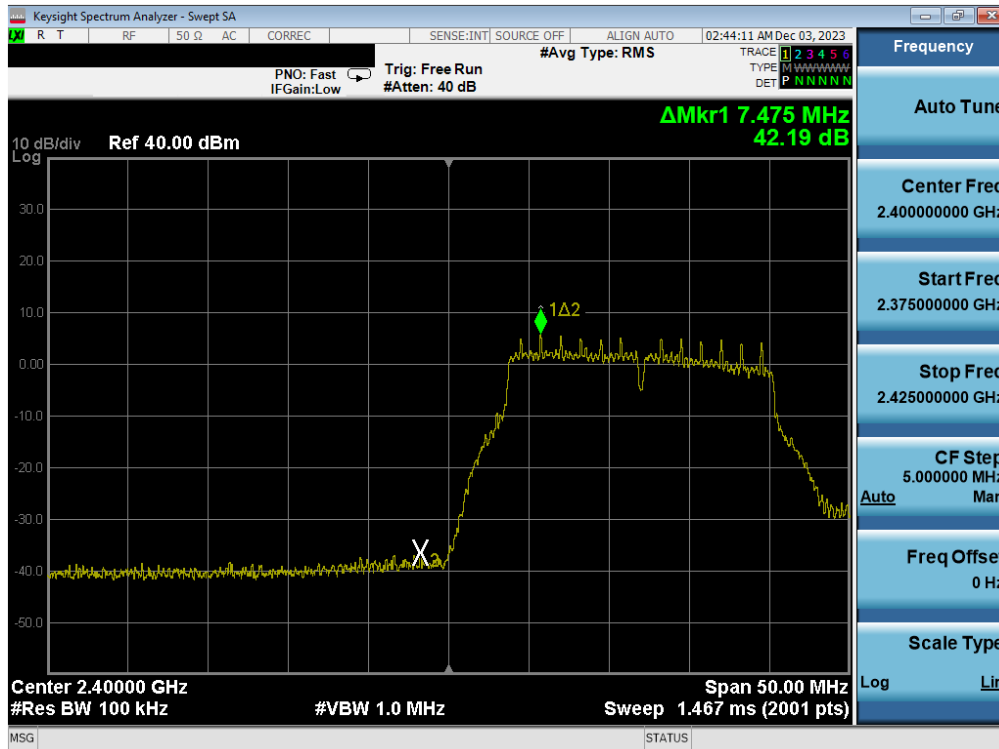
All antenna configurations were investigated and only the worst case is reported.

The data rates have been classified into three different groups: low data rate, middle data rate, and high data rate. All three data groups have been investigated and only the worst case data rate per group is reported.

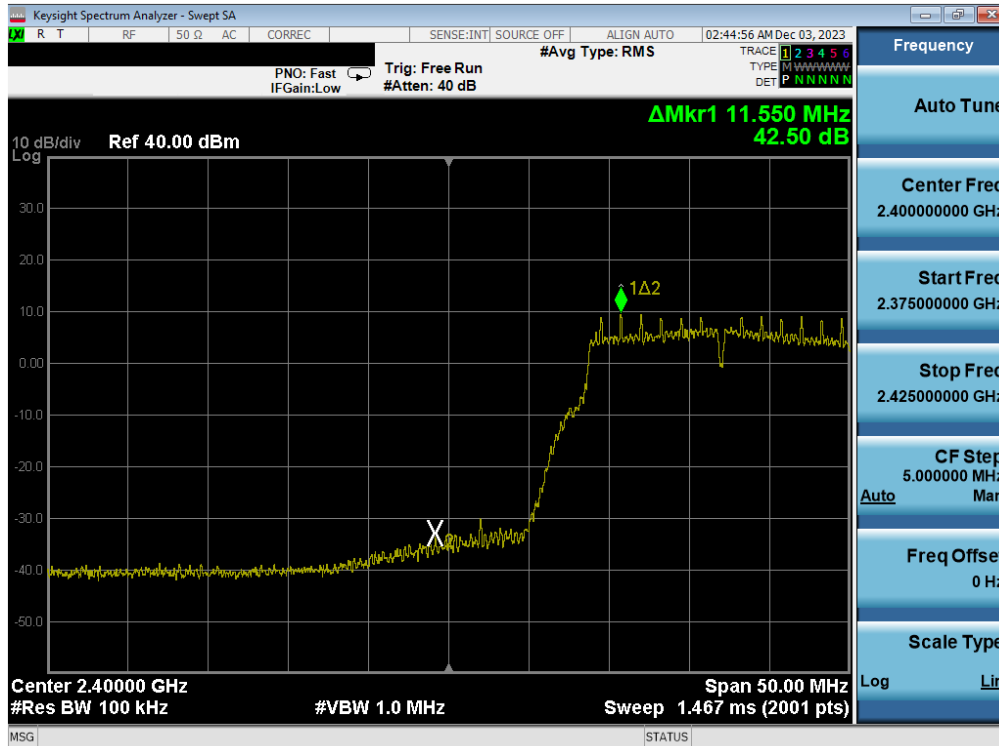
FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 130 of 388

V 10.6 09/14/2023

7.5.1 Antenna 3a Conducted Emissions at the Band Edge Low Rate

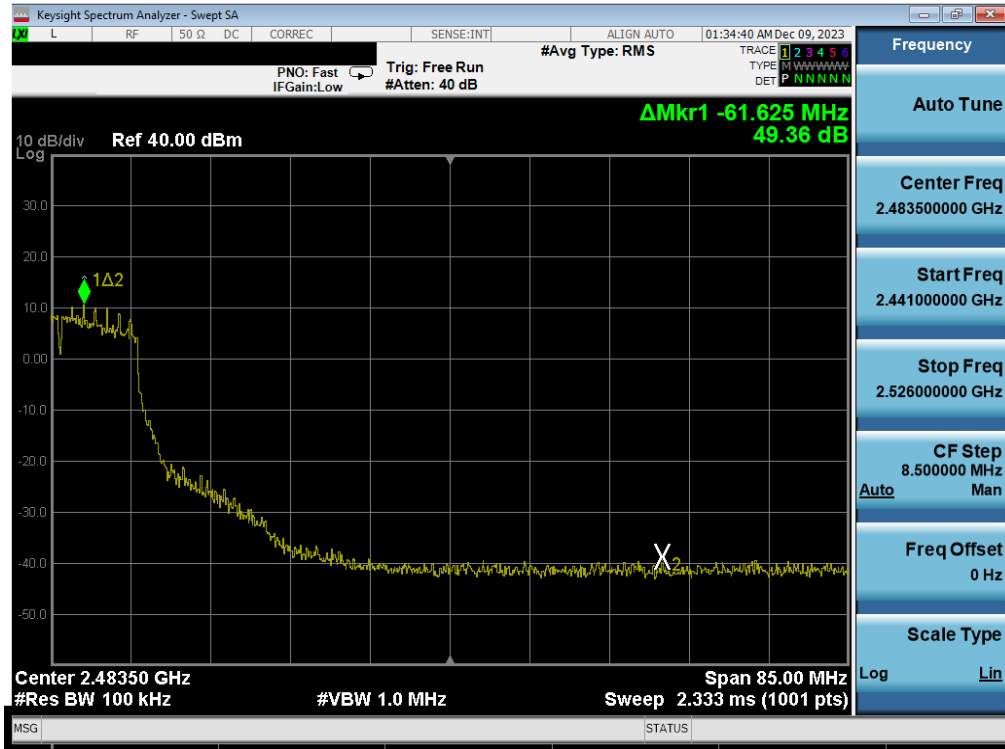


Plot 7-175. Band Edge Plot Antenna 3a (802.11g – Ch. 1) – 12Mbps

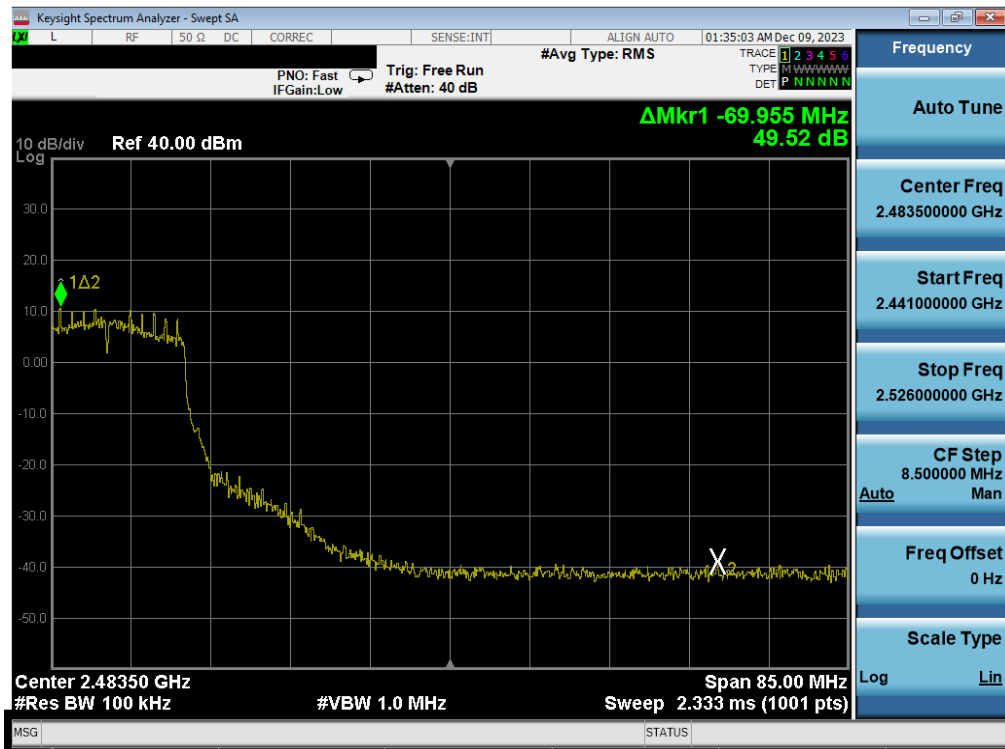


Plot 7-176. Band Edge Plot Antenna 3a (802.11g – Ch. 2) – 12Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 131 of 388

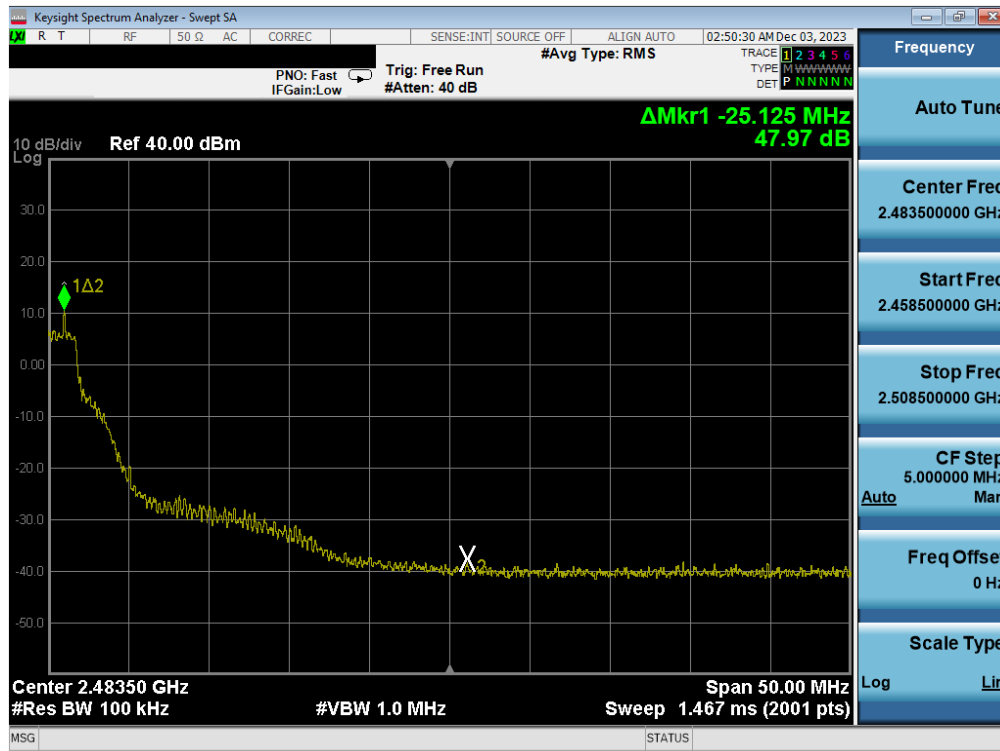


Plot 7-179. Band Edge Plot Antenna 3a (802.11g – Ch. 7) – 12Mbps

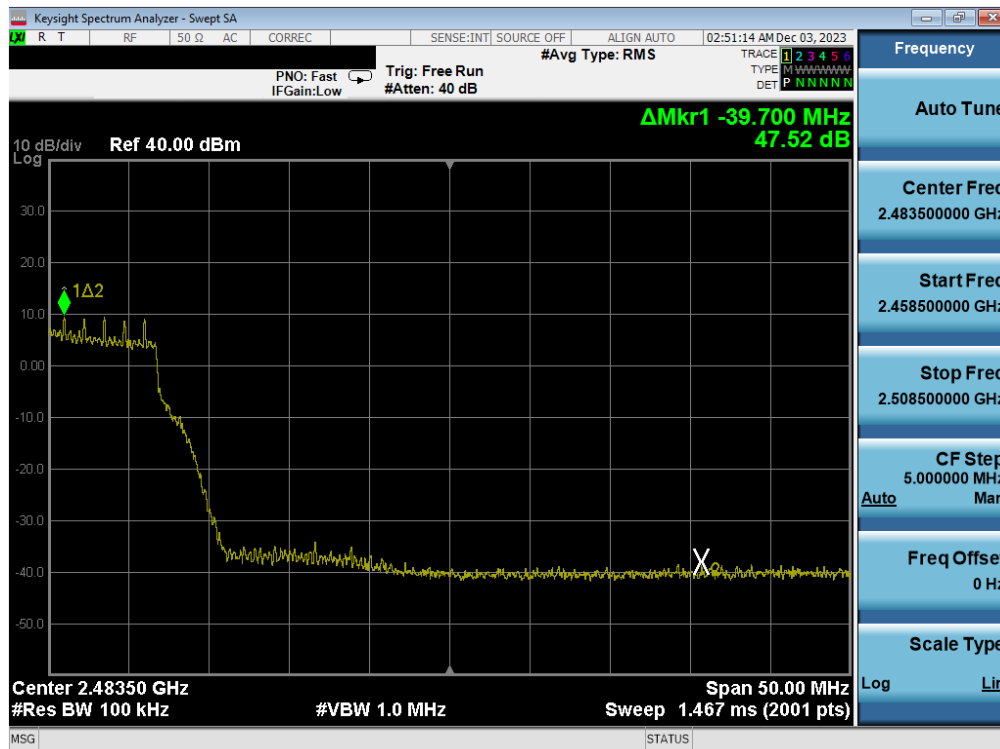


Plot 7-180. Band Edge Plot Antenna 3a (802.11g – Ch. 8) – 12Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 133 of 388

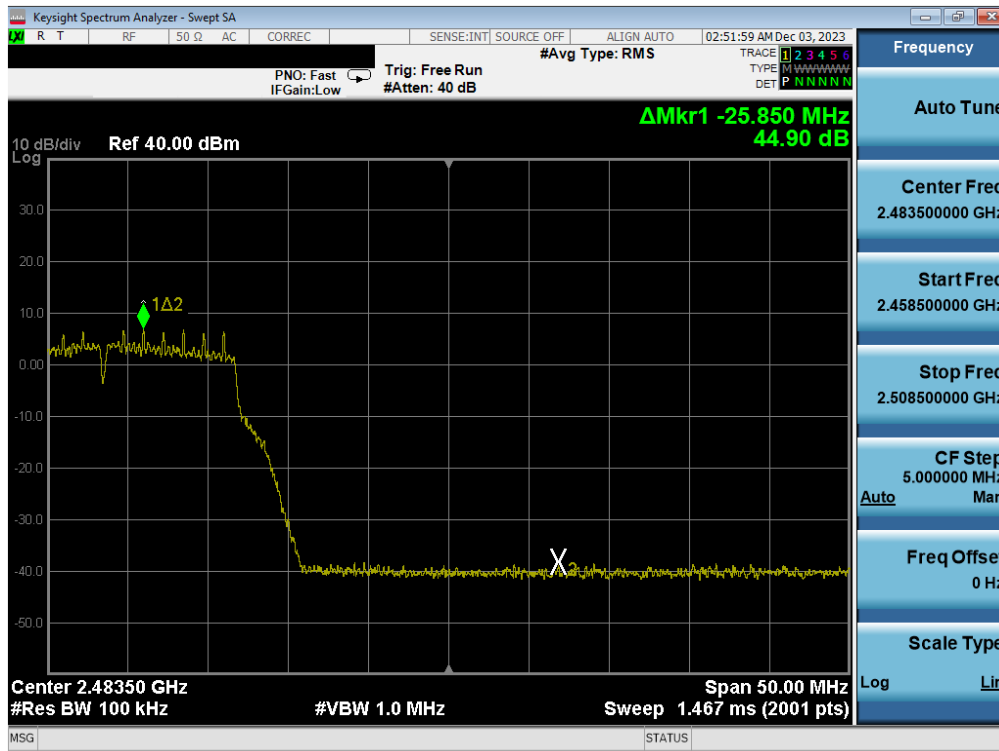


Plot 7-181. Band Edge Plot Antenna 3a (802.11g – Ch. 9) – 12Mbps

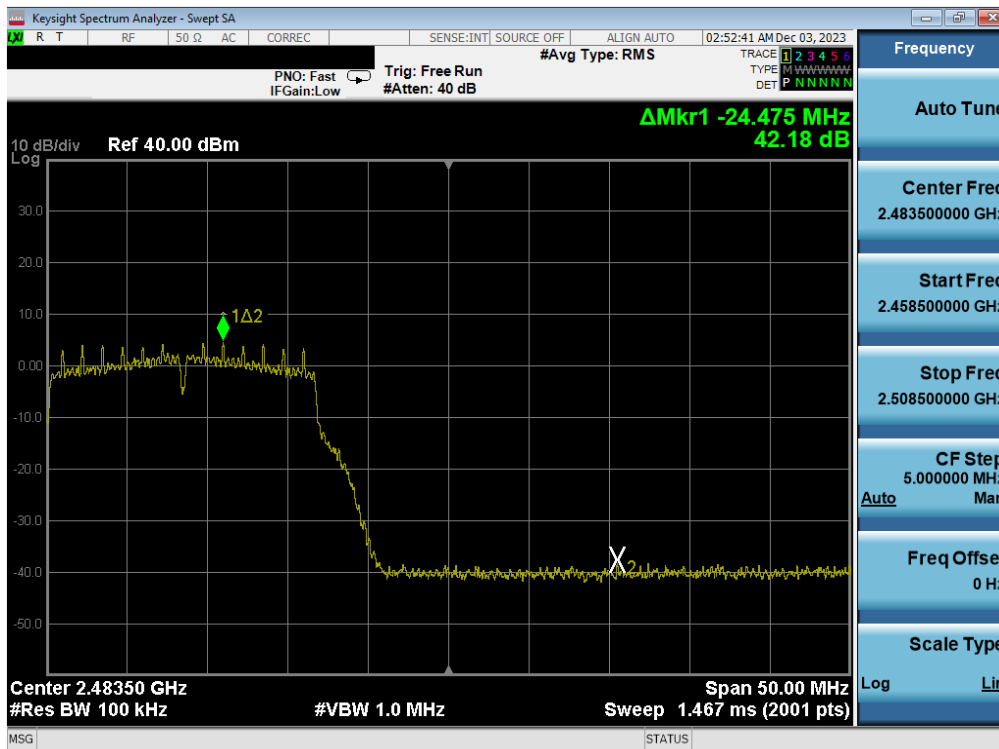


Plot 7-182. Band Edge Plot Antenna 3a (802.11g – Ch. 10) – 12Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 134 of 388

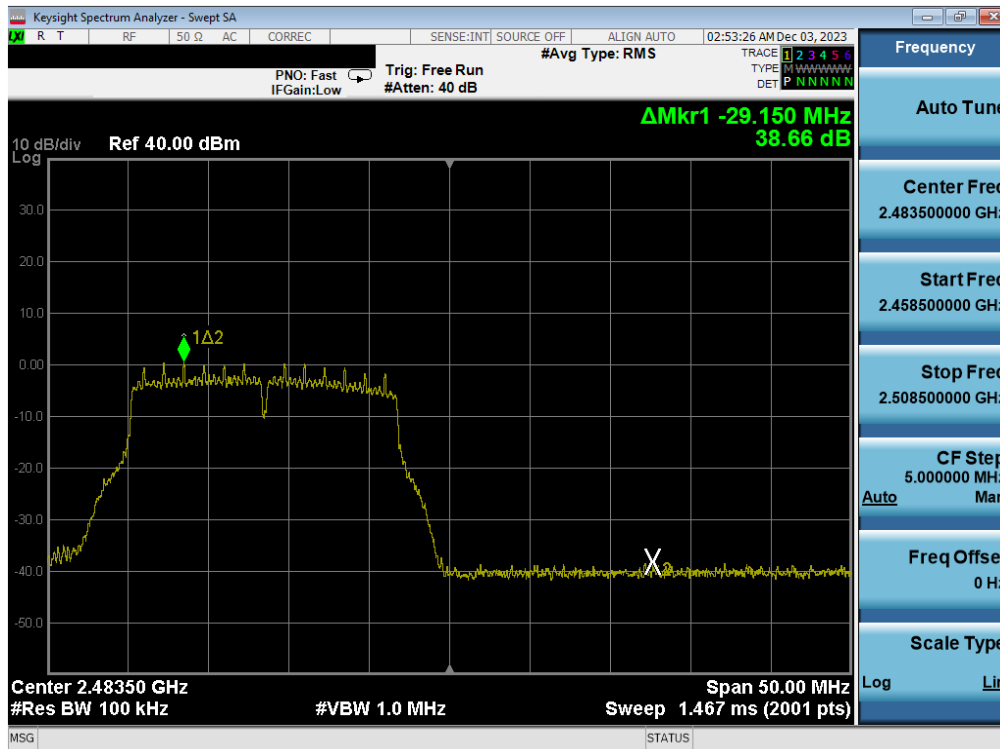


Plot 7-183. Band Edge Plot Antenna 3a (802.11g – Ch. 11) – 12Mbps

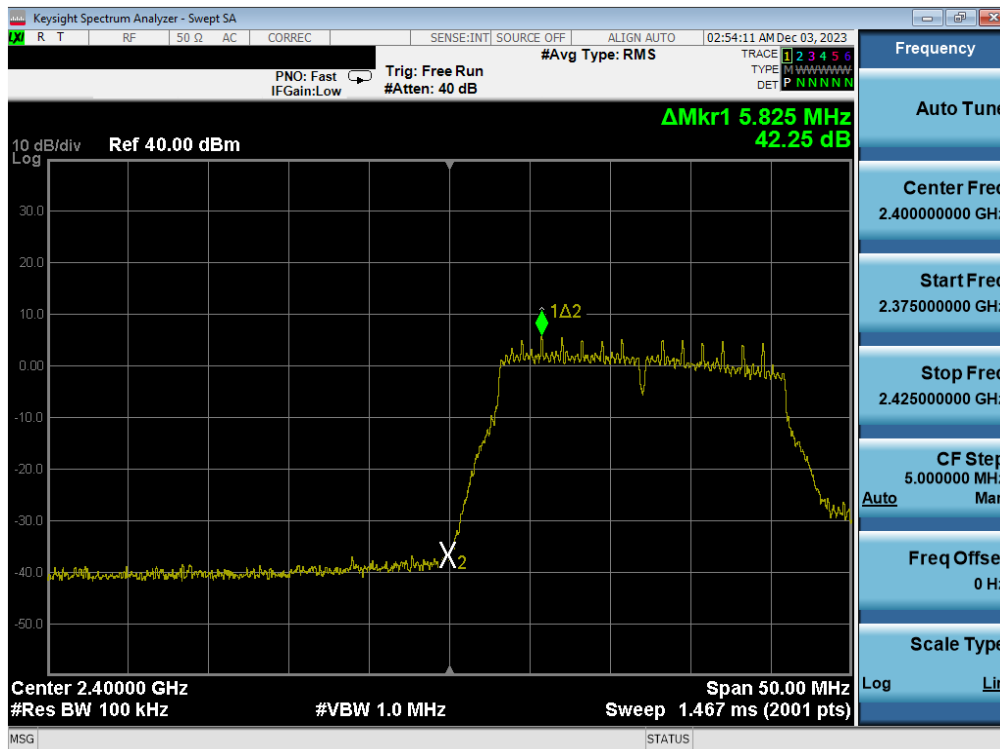


Plot 7-184. Band Edge Plot Antenna 3a (802.11g – Ch. 12) – 12Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 135 of 388

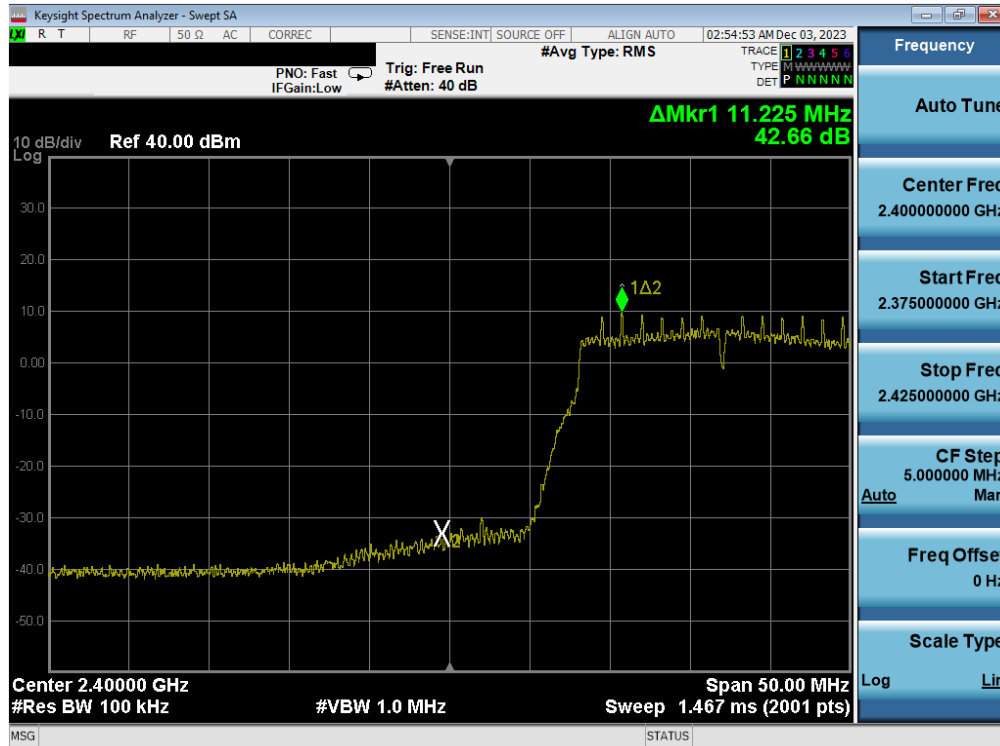


Plot 7-185. Band Edge Plot Antenna 3a (802.11g – Ch. 13) – 12Mbps

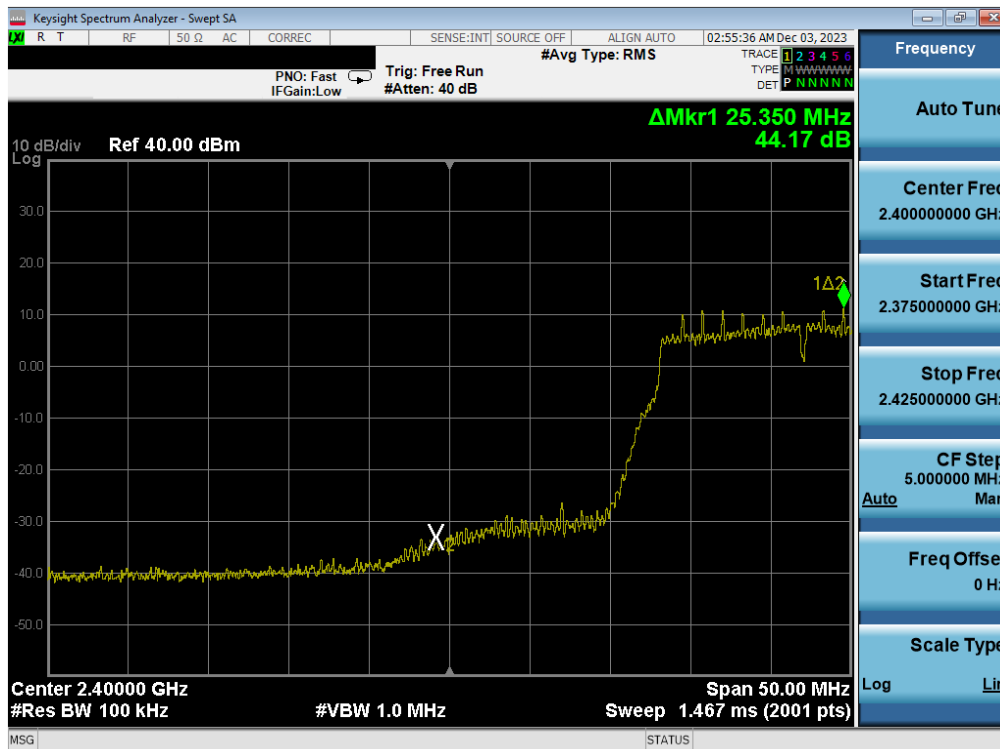


Plot 7-186. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 136 of 388

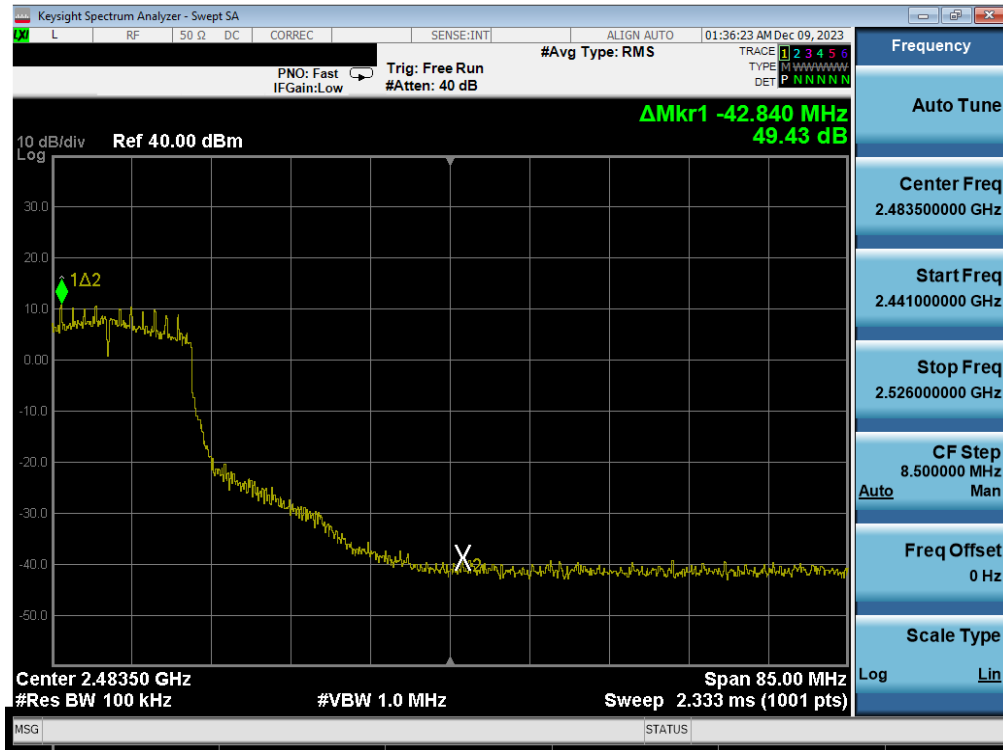


Plot 7-187. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 2) – MCS2

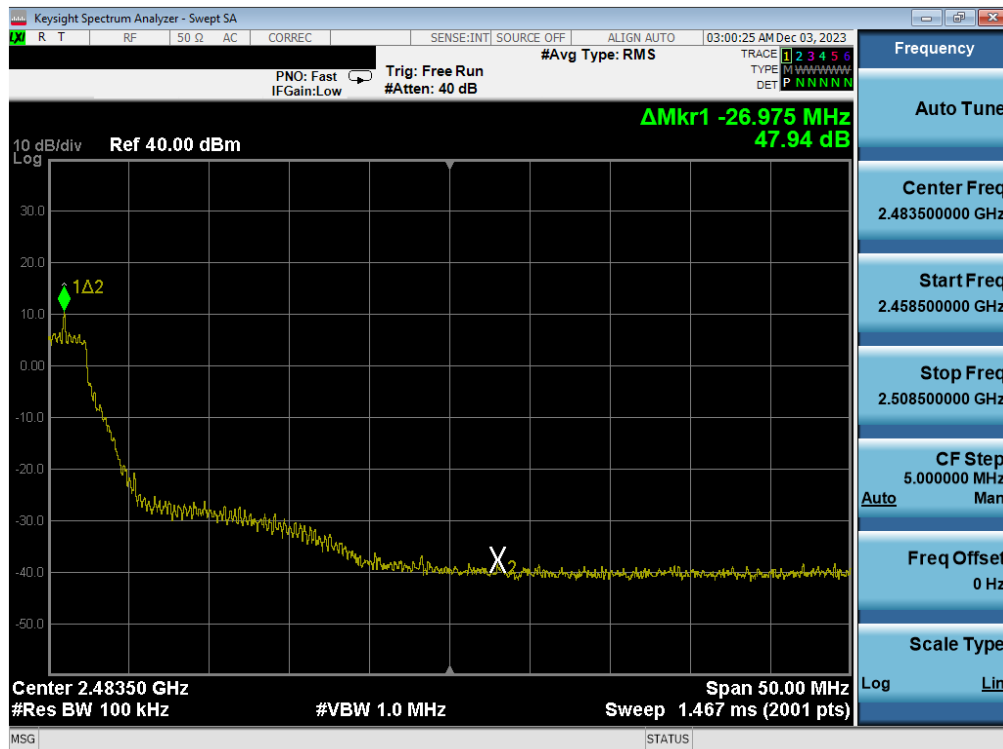


Plot 7-188. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 3) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 137 of 388

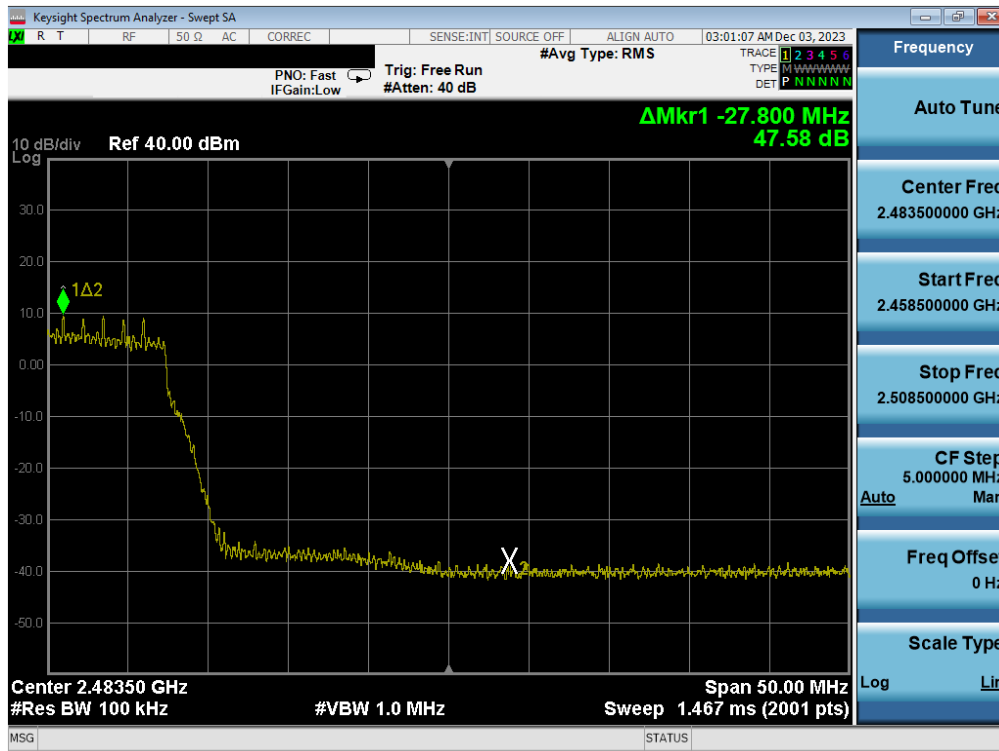


Plot 7-191. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 8) – MCS2

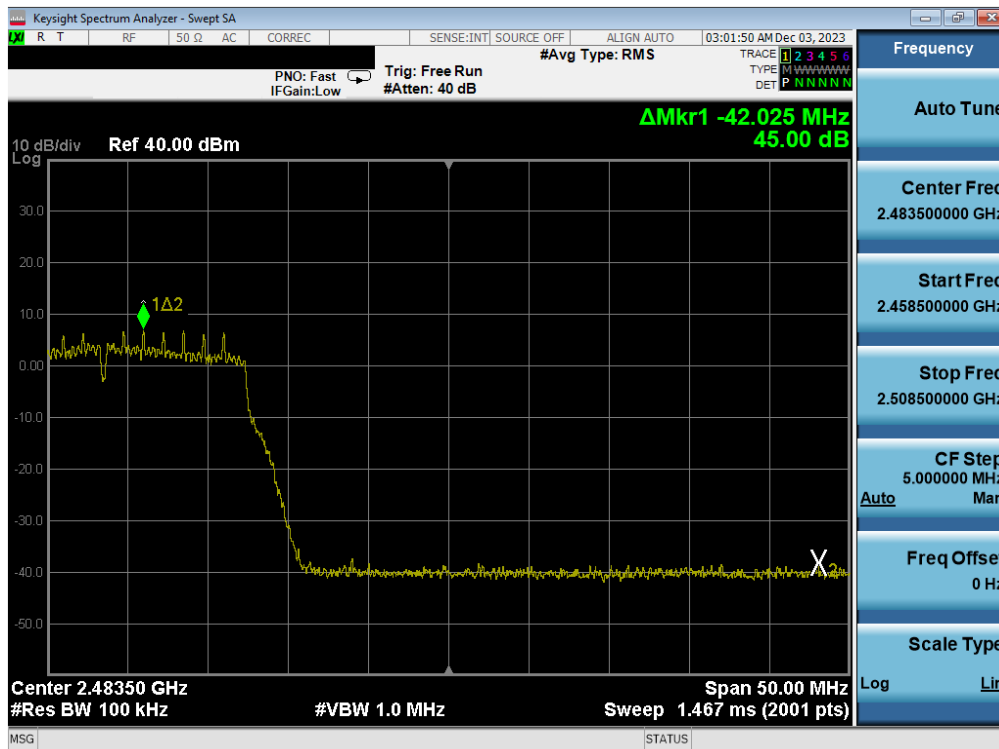


Plot 7-192. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 9) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 139 of 388

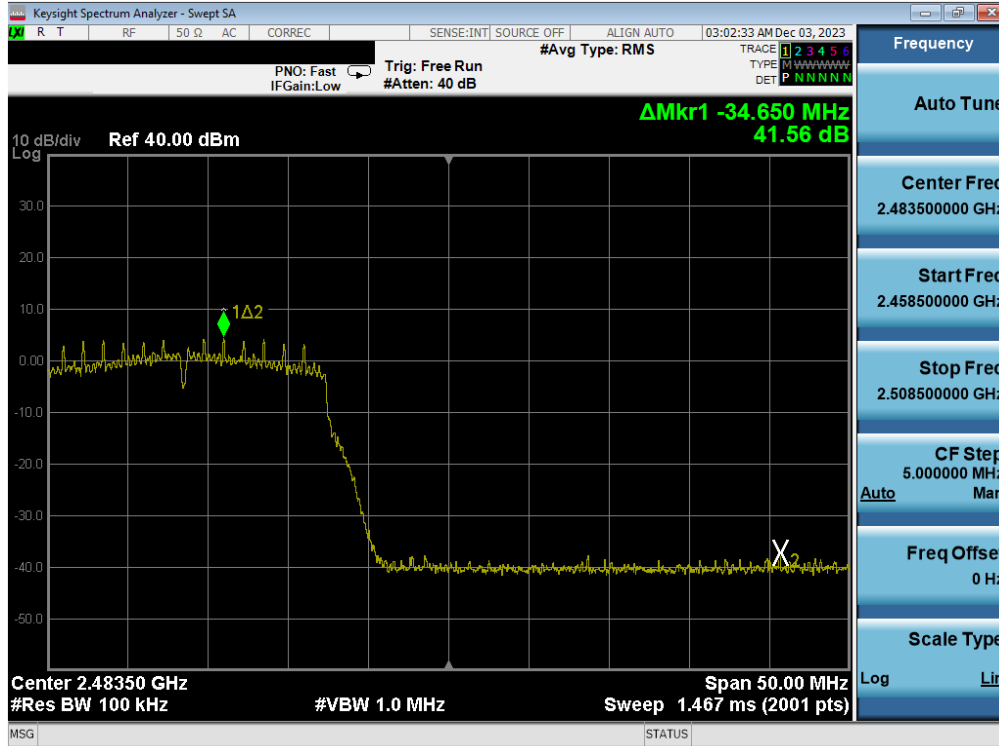


Plot 7-193. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 10) – MCS2

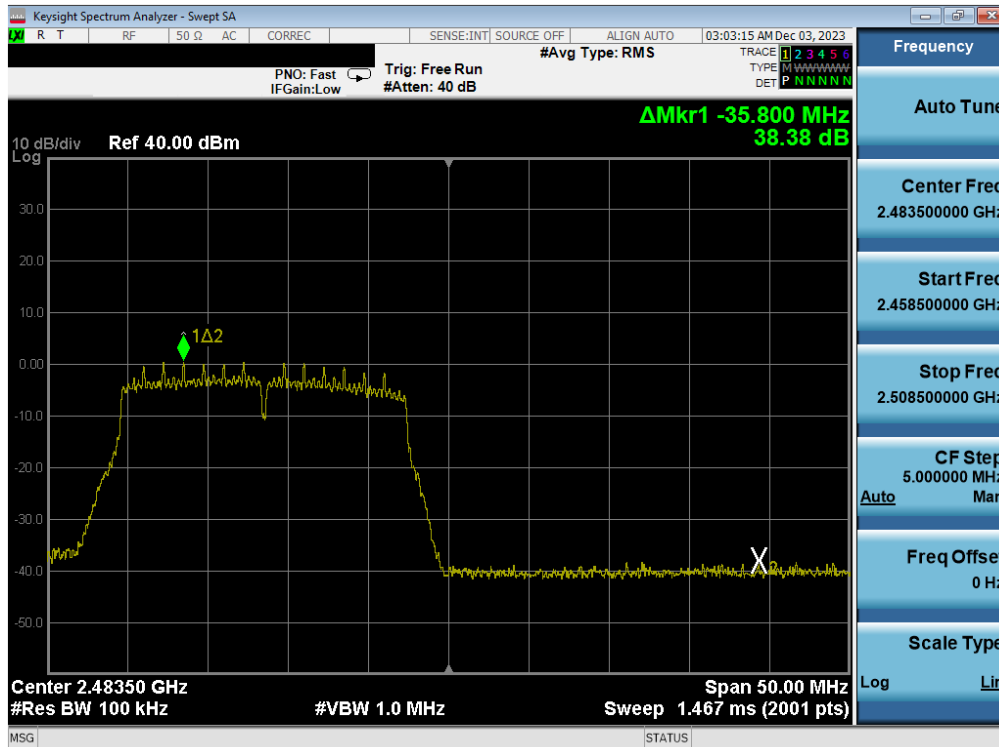


Plot 7-194. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 140 of 388

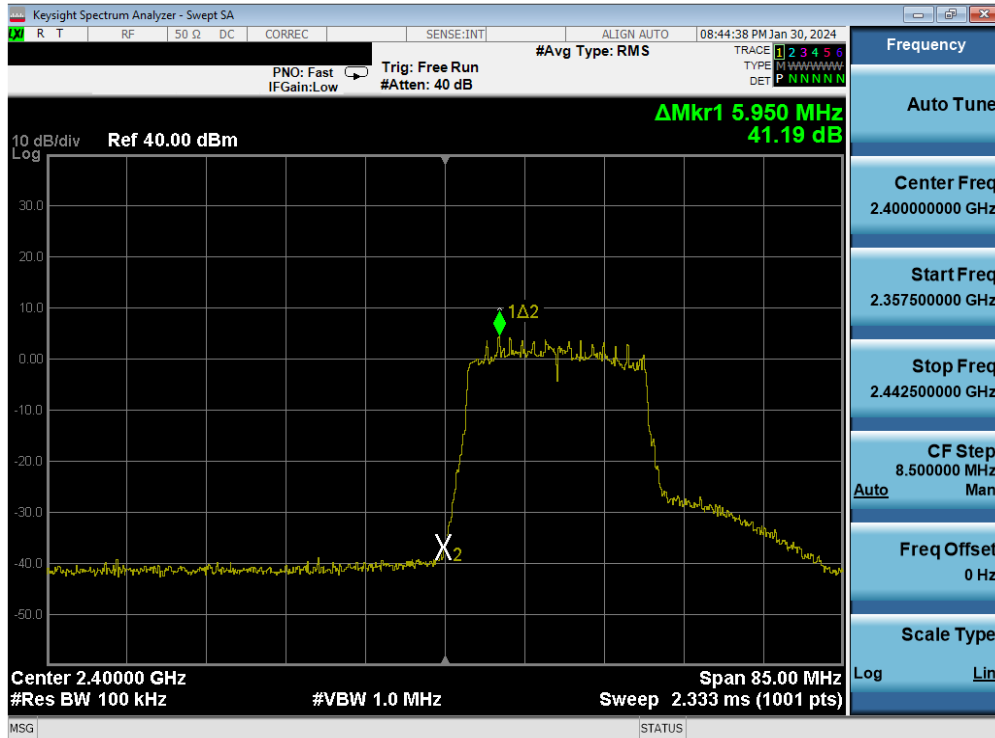


Plot 7-195. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 12) – MCS2

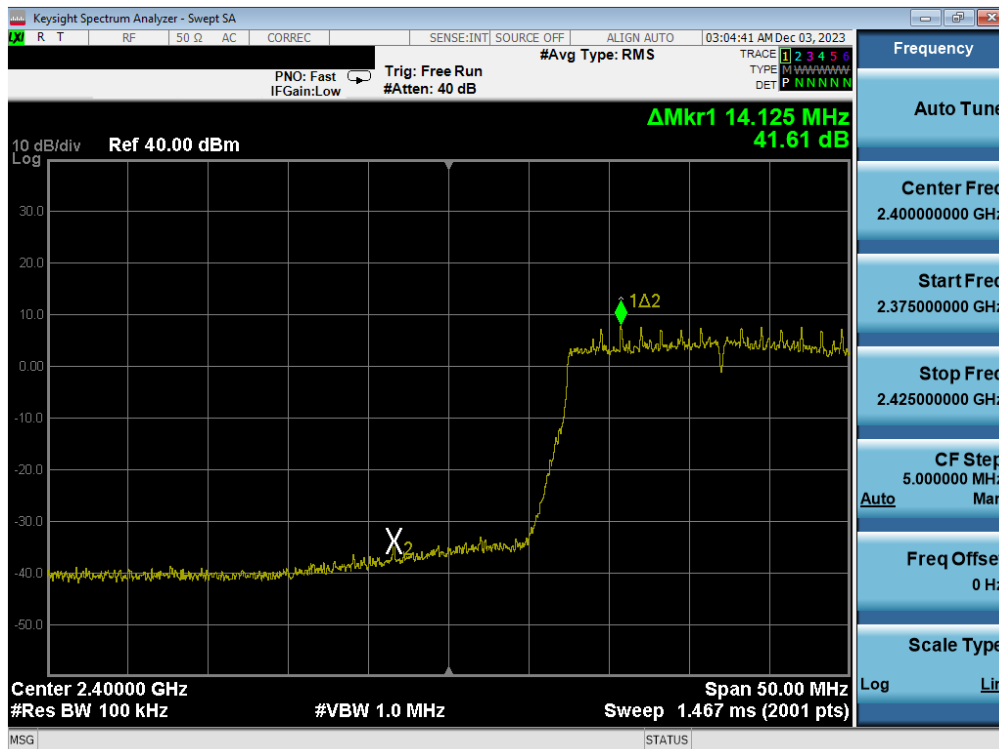


Plot 7-196. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 13) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 141 of 388

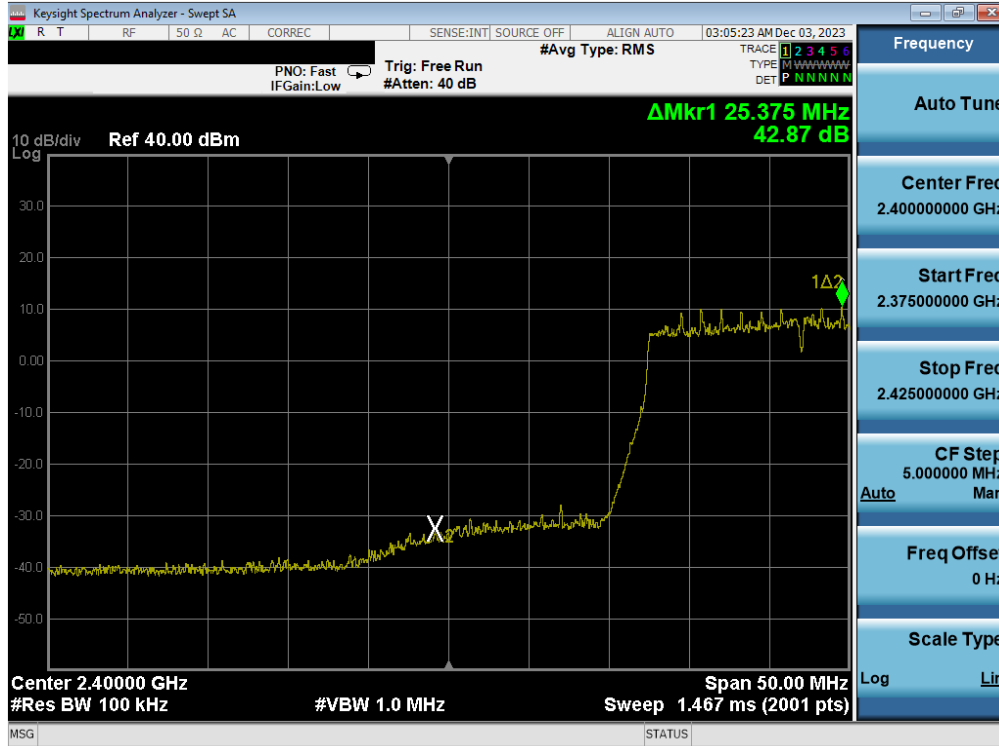


Plot 7-197. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2

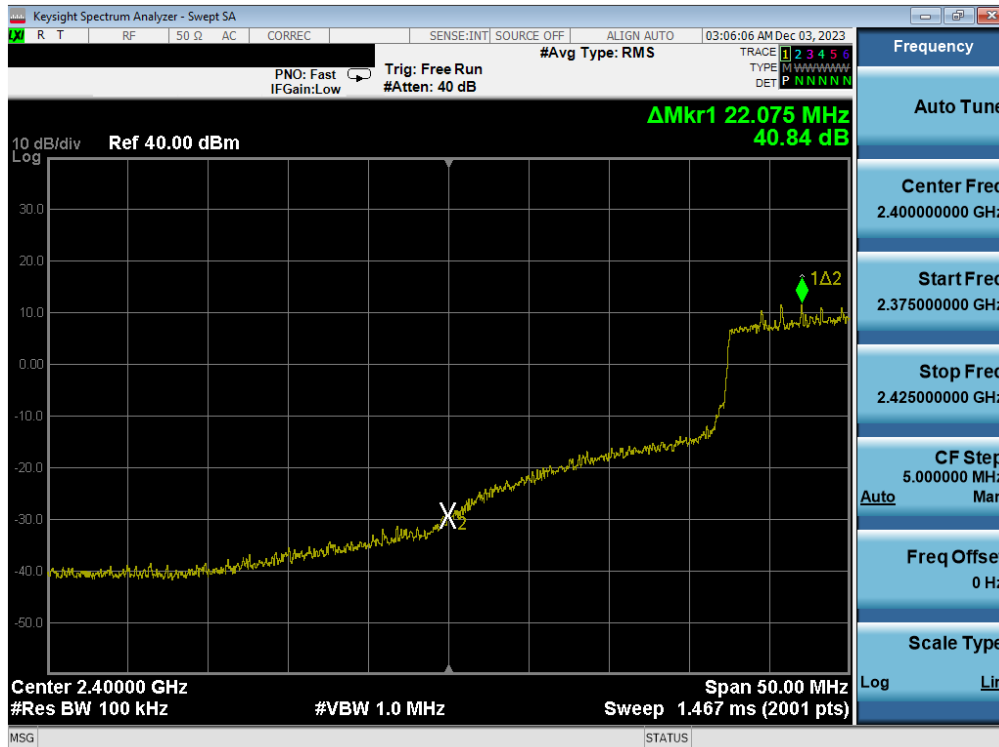


Plot 7-198. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 142 of 388

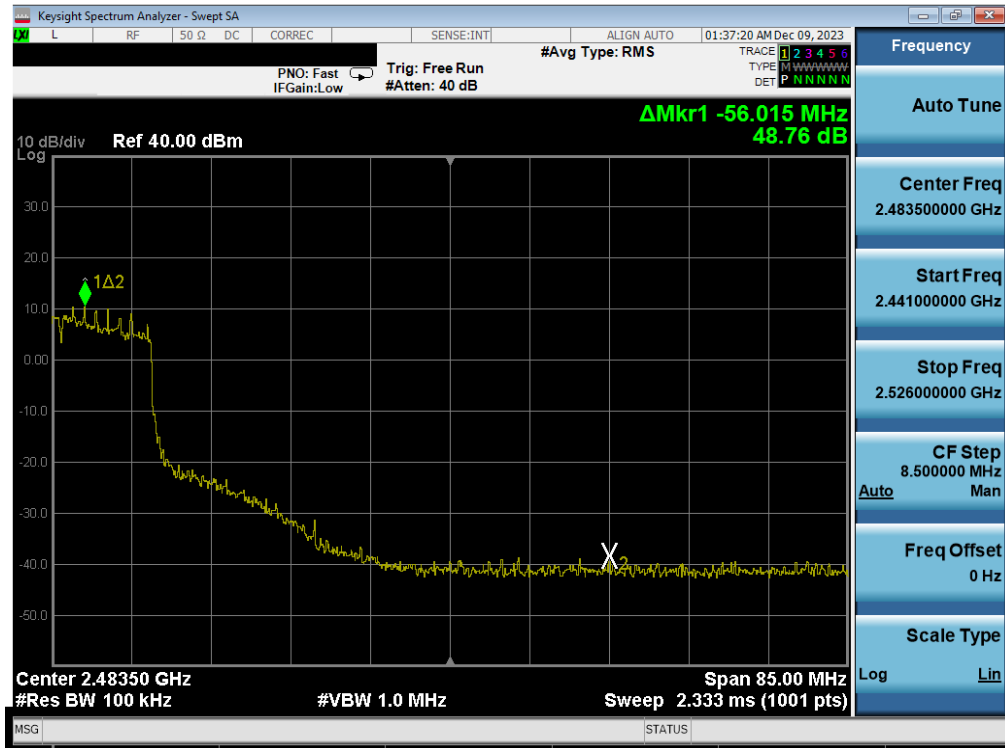


Plot 7-199. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS2

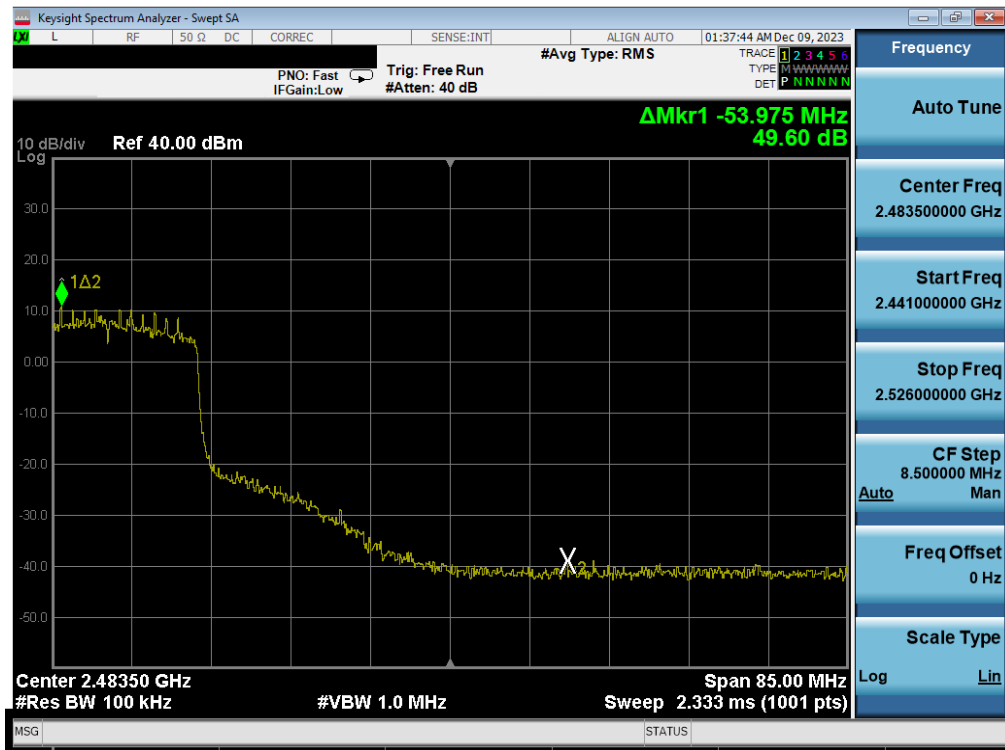


Plot 7-200. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 143 of 388

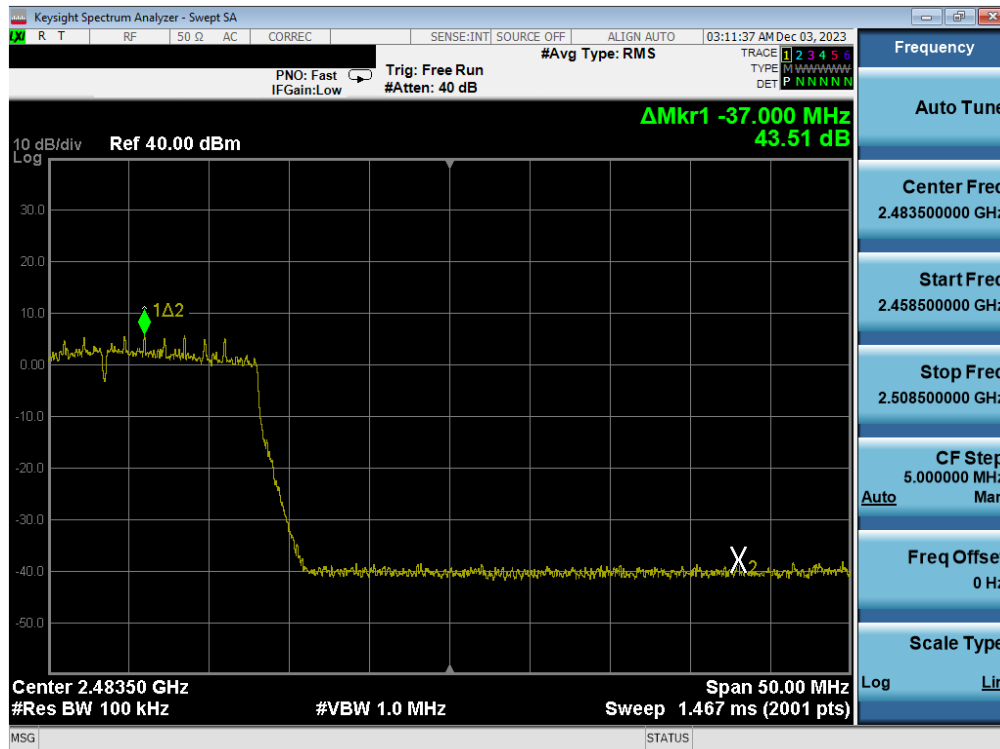


Plot 7-201. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 7) – MCS2

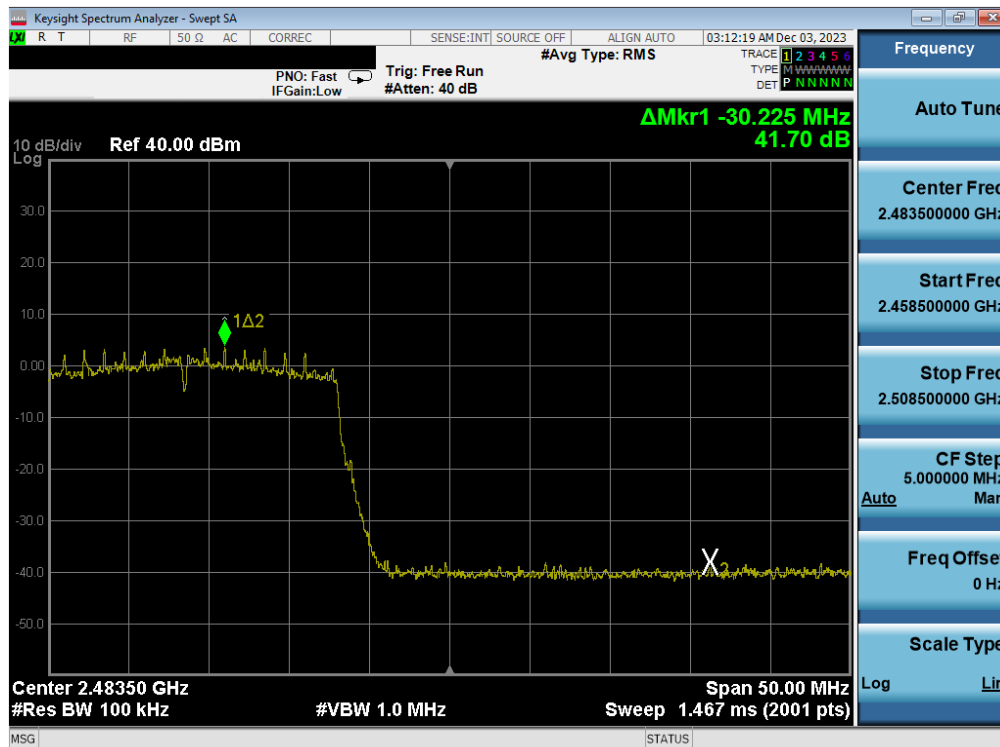


Plot 7-202. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 8) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 144 of 388

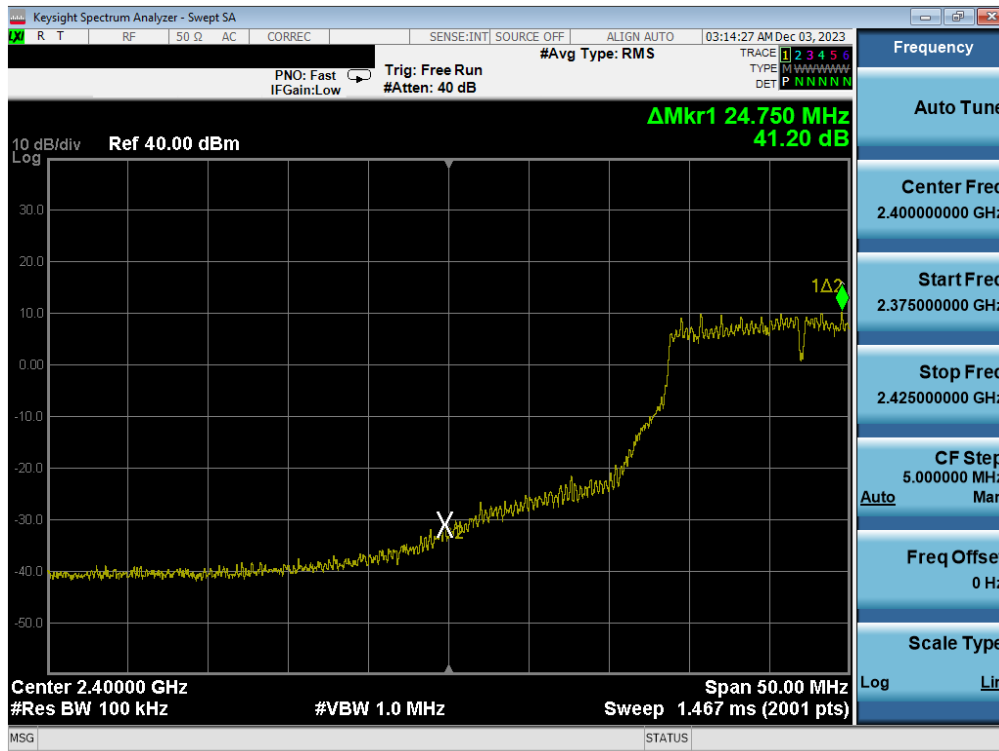


Plot 7-205. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

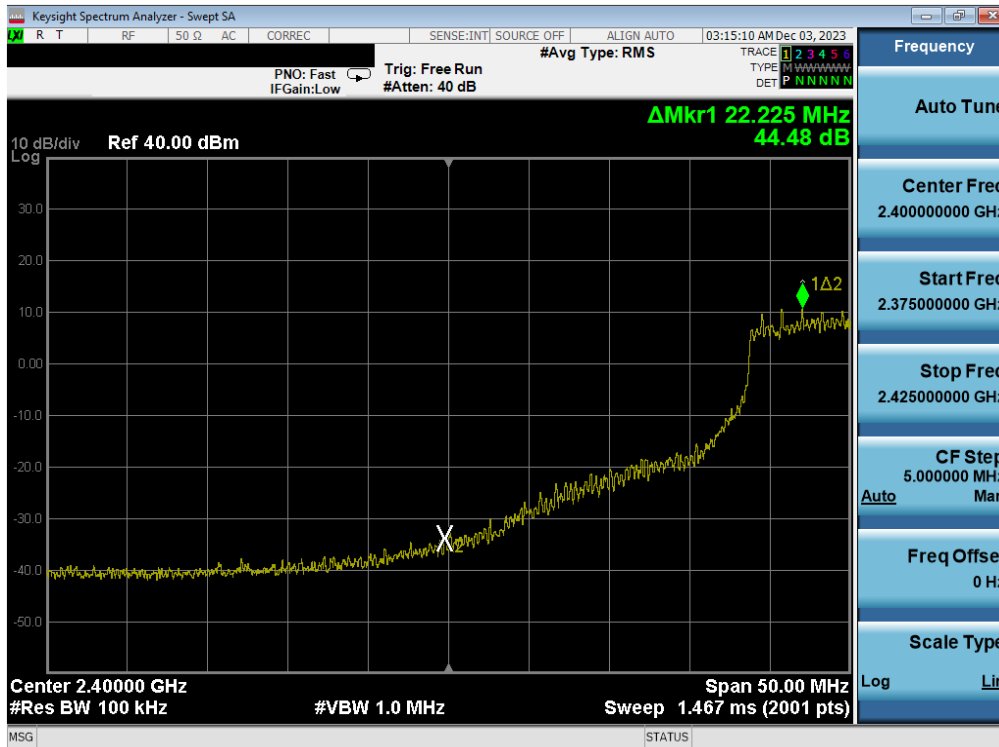


Plot 7-206. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS2

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 146 of 388

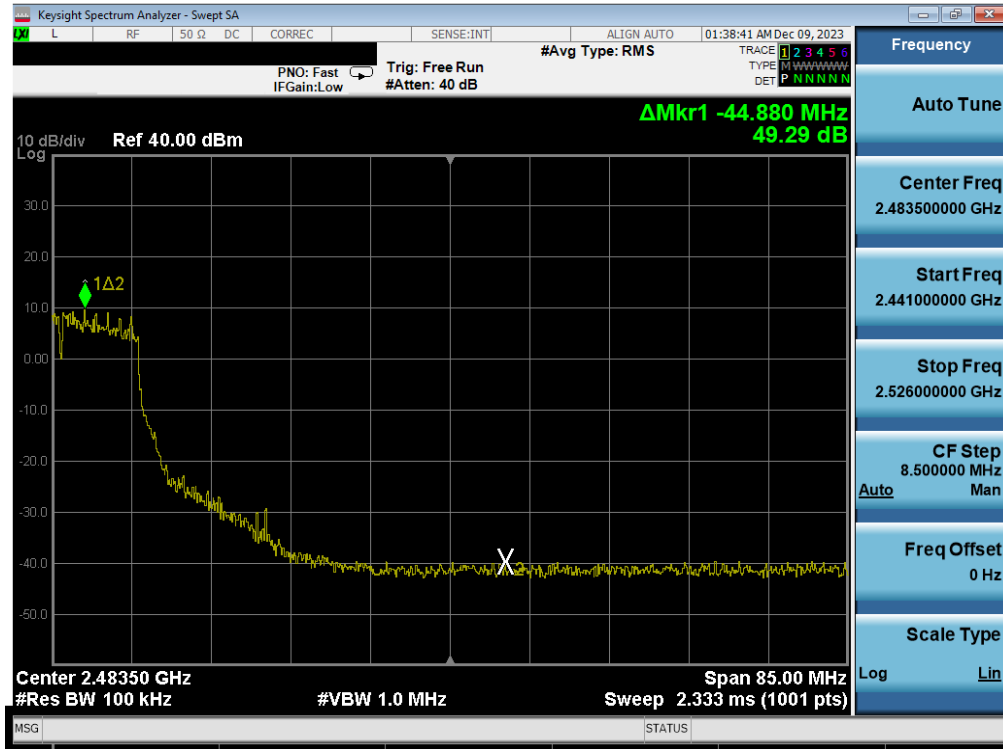


Plot 7-209. Band Edge Plot Antenna 3a (802.11g – Ch. 3) – 24Mbps

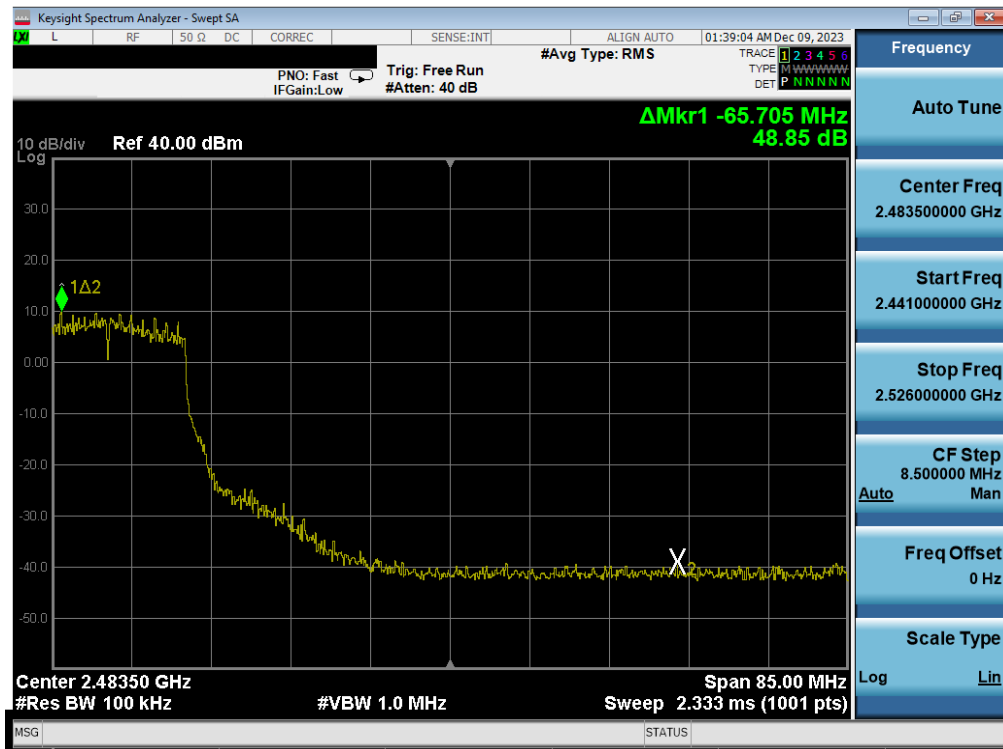


Plot 7-210. Band Edge Plot Antenna 3a (802.11g – Ch. 4) – 24Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 148 of 388

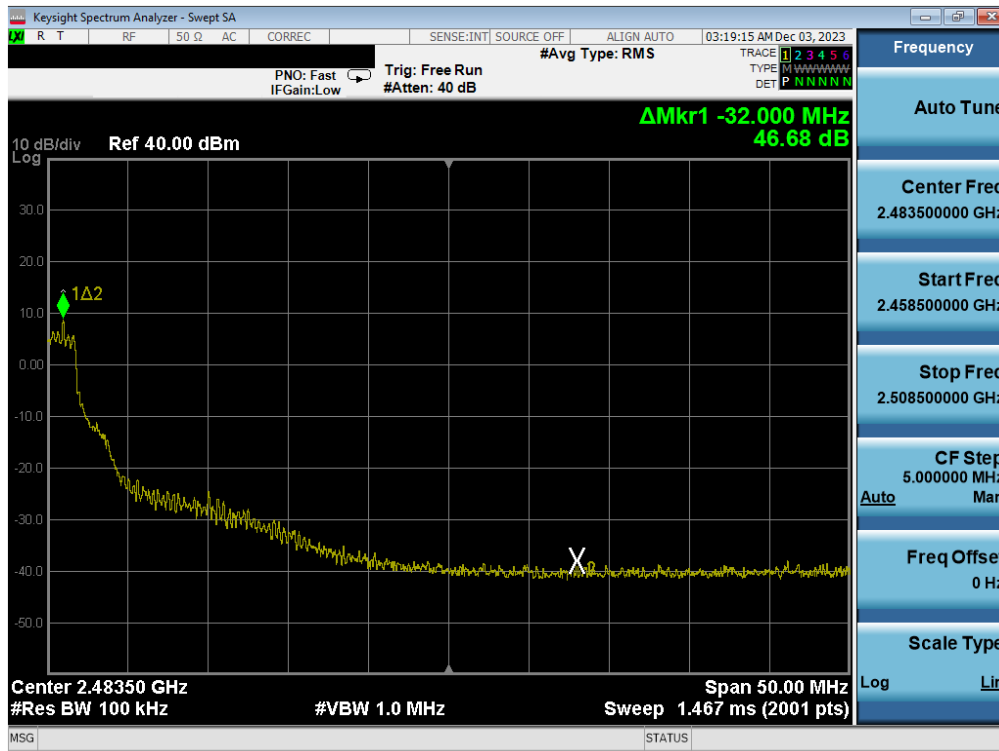


Plot 7-211. Band Edge Plot Antenna 3a (802.11g – Ch. 7) – 24Mbps

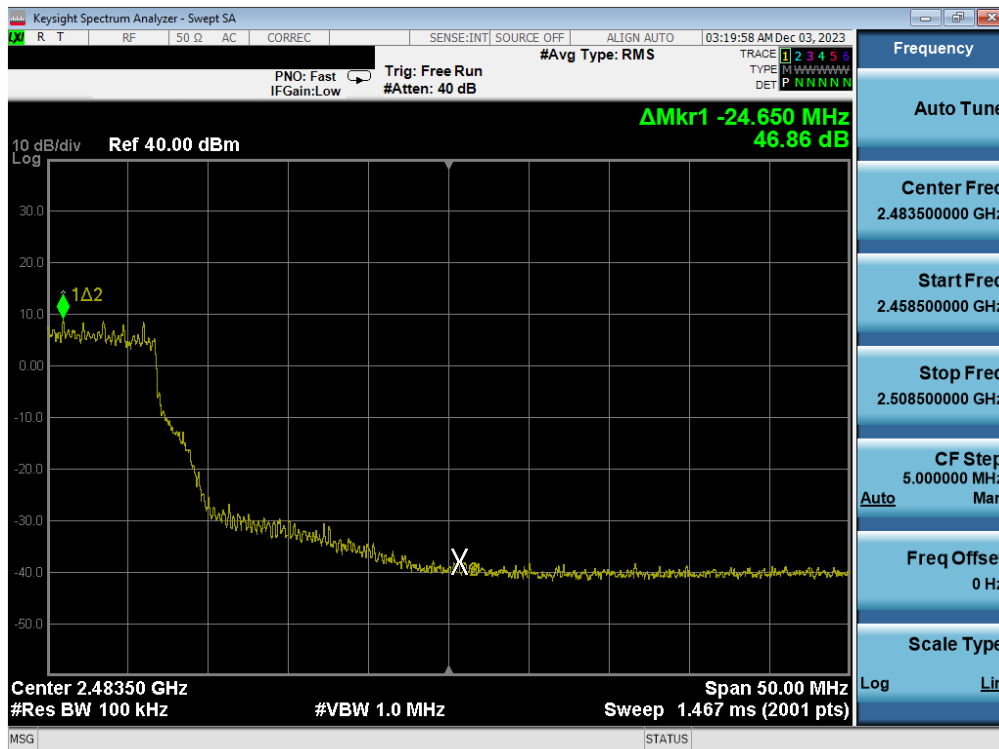


Plot 7-212. Band Edge Plot Antenna 3a (802.11g – Ch. 8) – 24Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 149 of 388

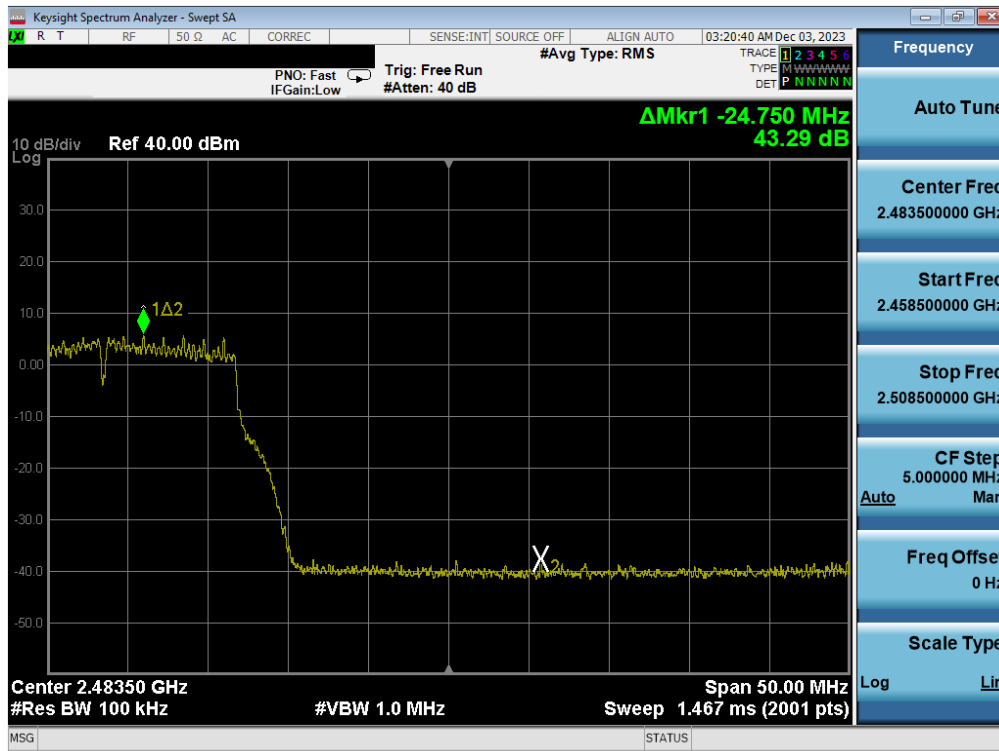


Plot 7-213. Band Edge Plot Antenna 3a (802.11g – Ch. 9) – 24Mbps

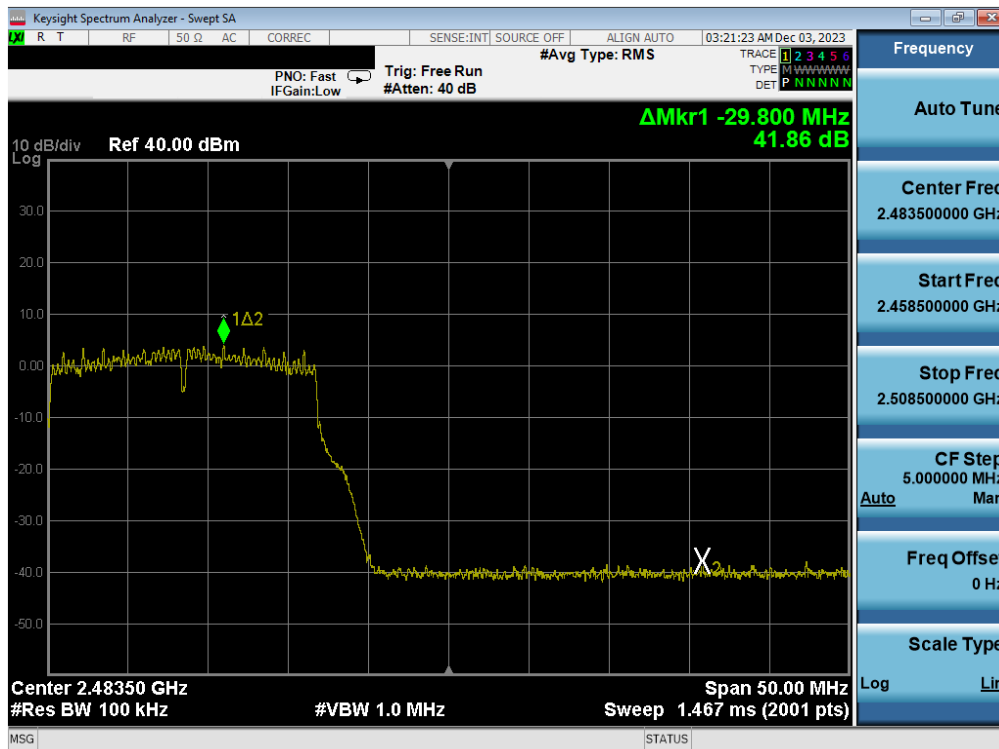


Plot 7-214. Band Edge Plot Antenna 3a (802.11g – Ch. 10) – 24Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 150 of 388

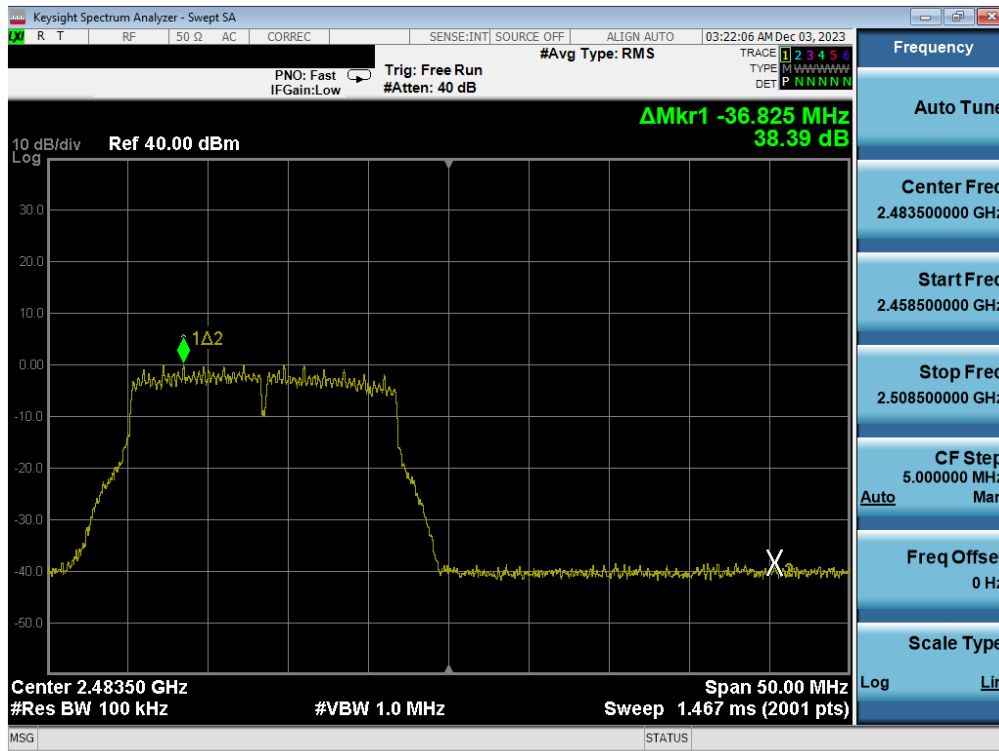


Plot 7-215. Band Edge Plot Antenna 3a (802.11g – Ch. 11) – 24Mbps

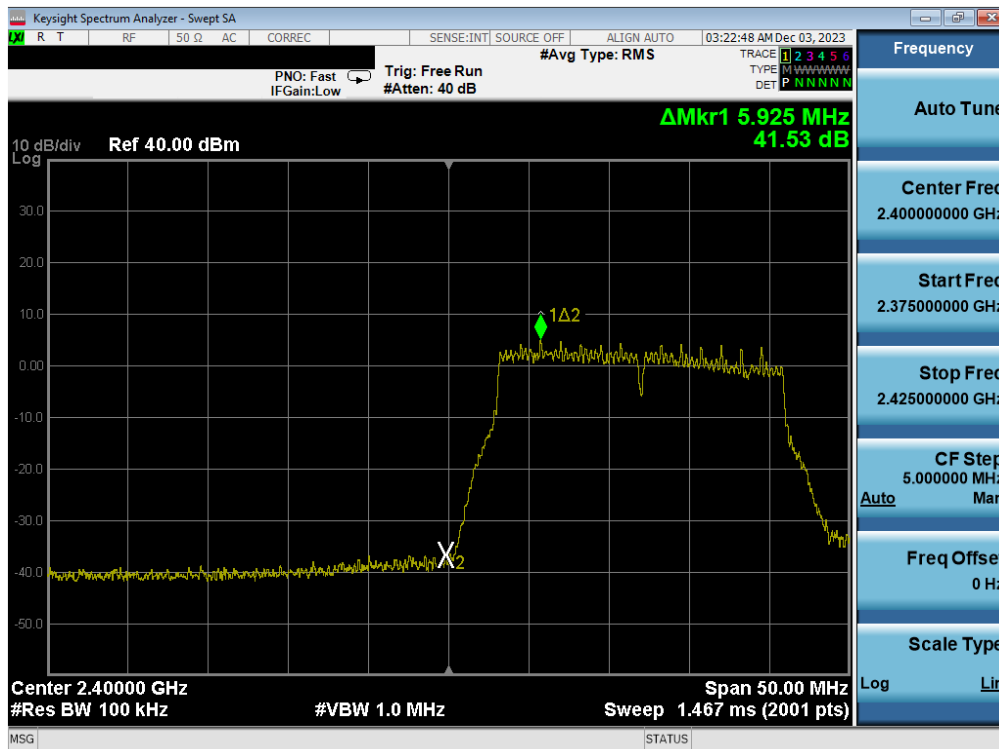


Plot 7-216. Band Edge Plot Antenna 3a (802.11g – Ch. 12) – 24Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 151 of 388

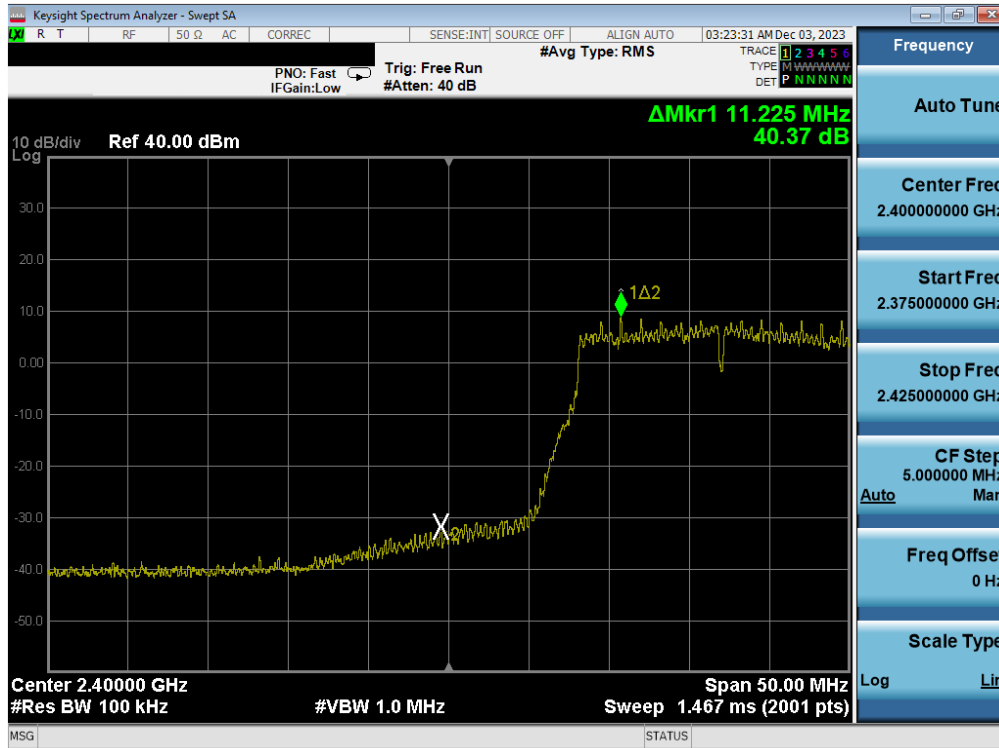


Plot 7-217. Band Edge Plot Antenna 3a (802.11g – Ch. 13) – 24Mbps

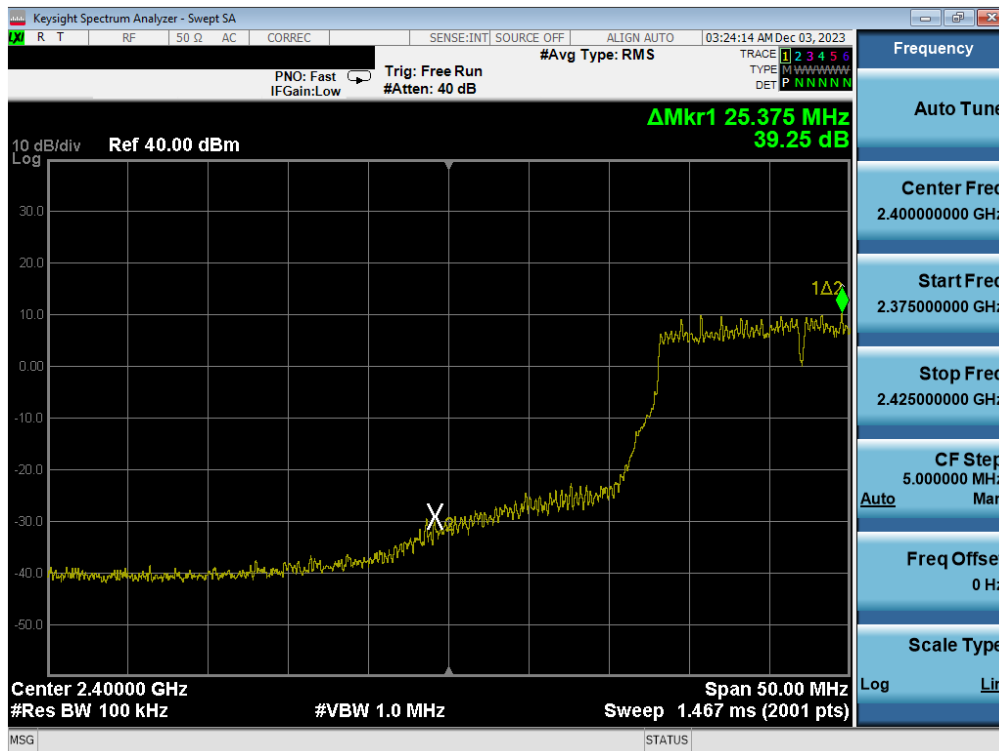


Plot 7-218. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 152 of 388

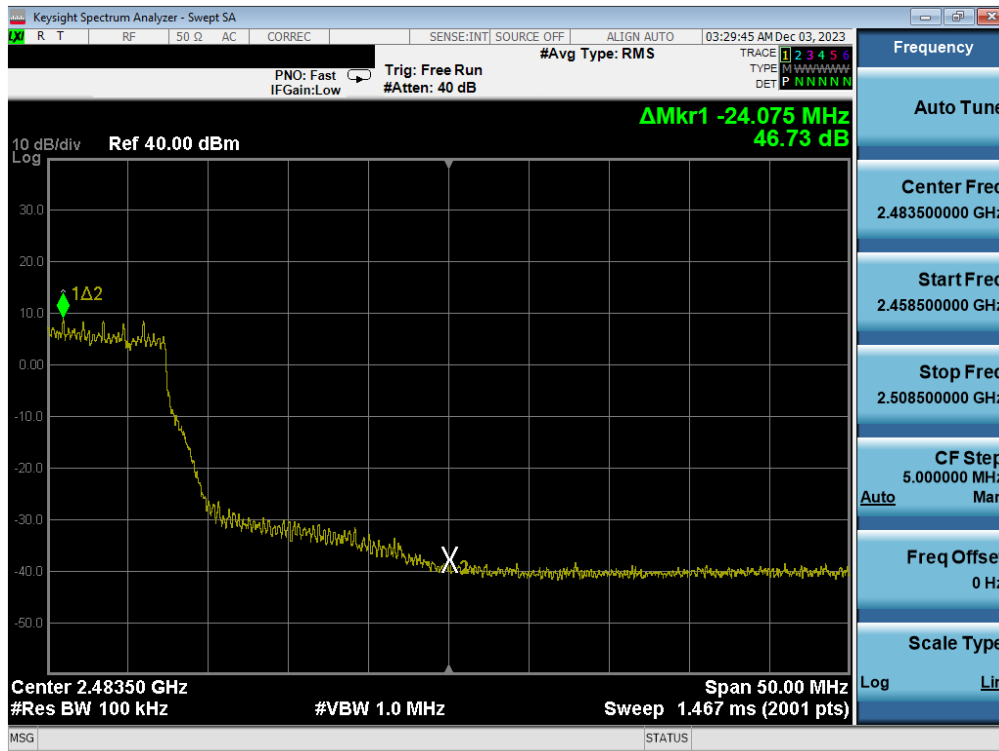


Plot 7-219. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 2) – MCS4

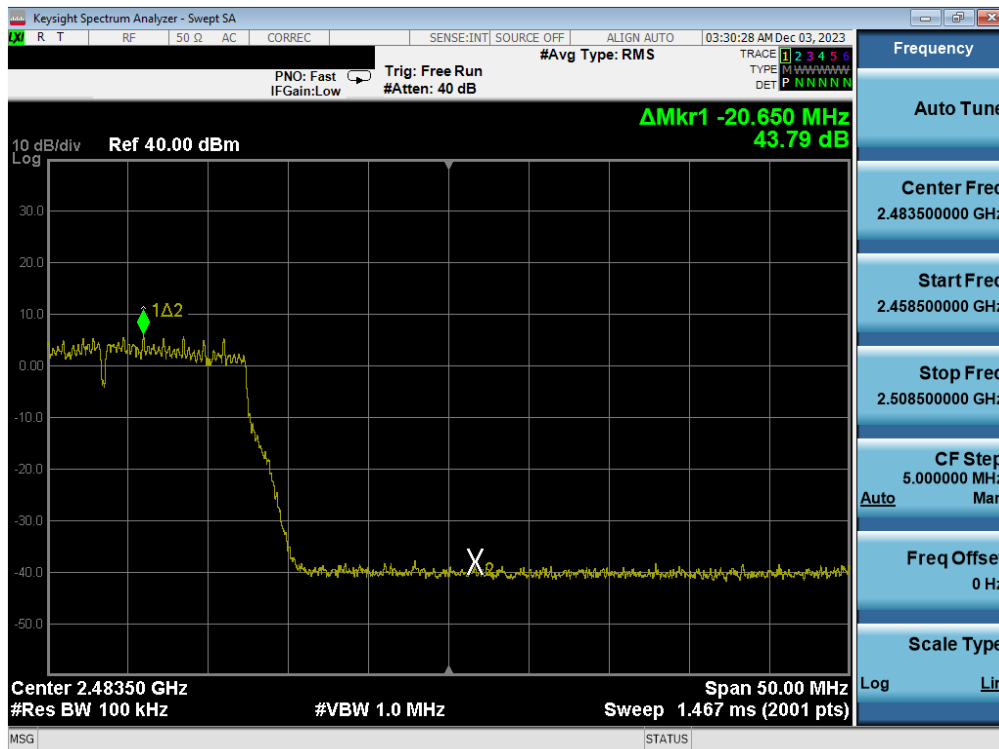


Plot 7-220. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 3) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 153 of 388

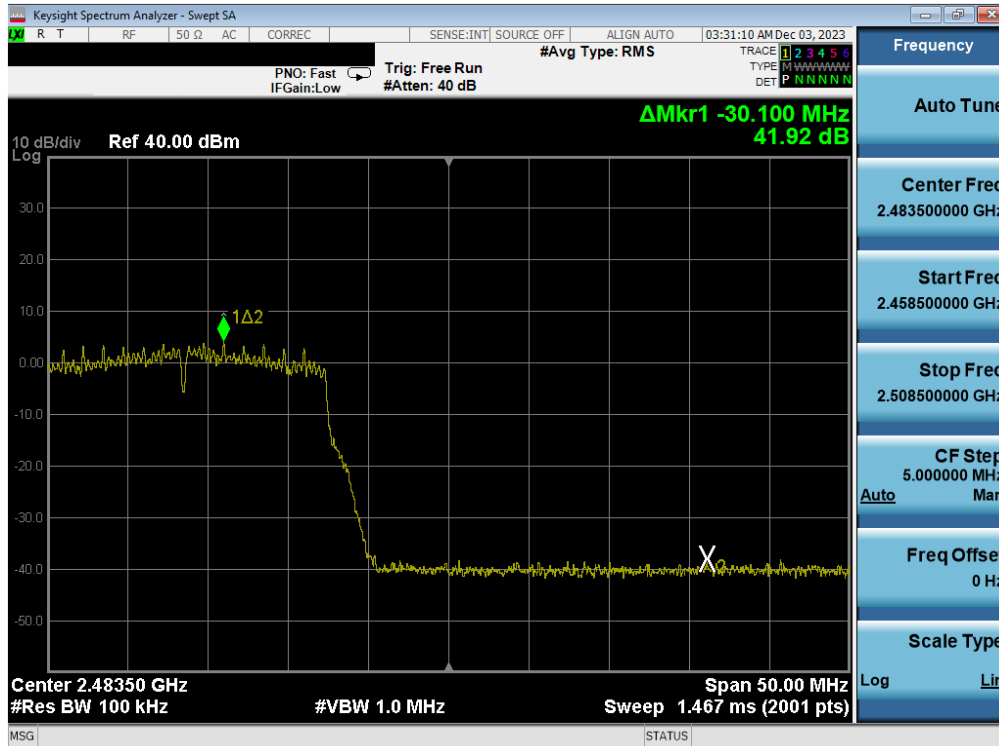


Plot 7-225. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 10) – MCS4

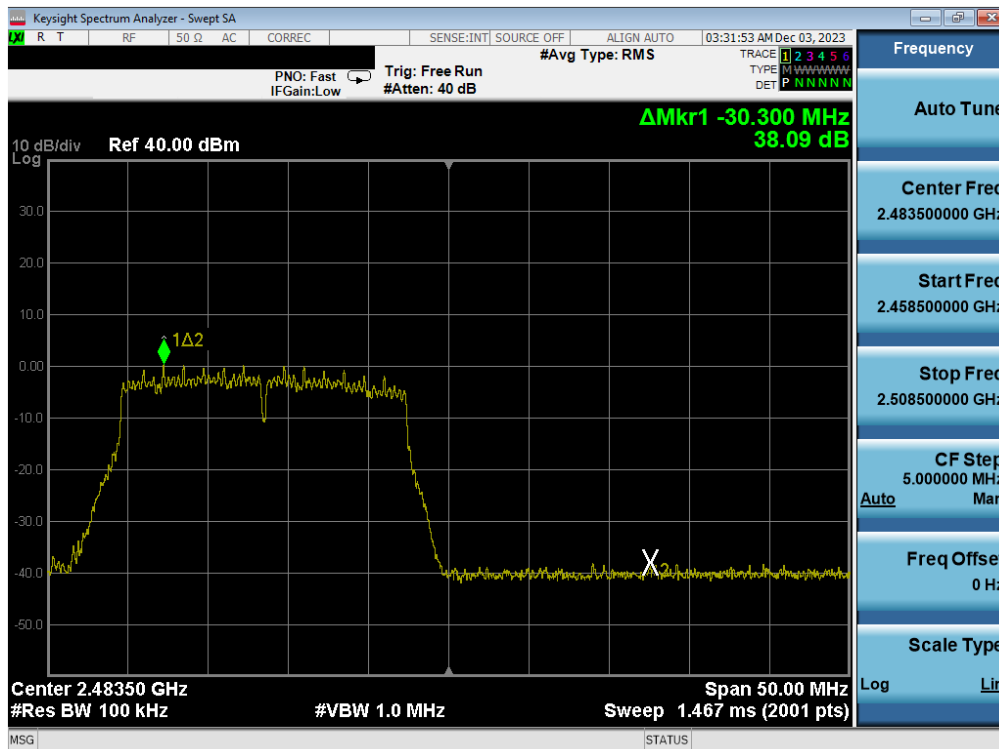


Plot 7-226. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 156 of 388

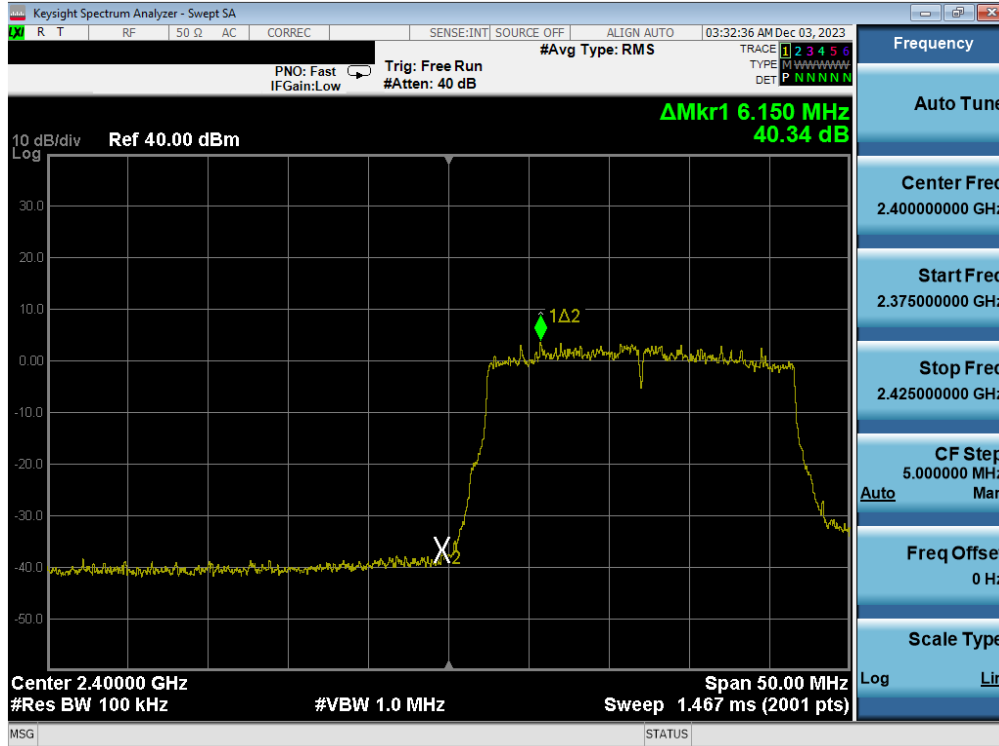


Plot 7-227. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 12) – MCS4

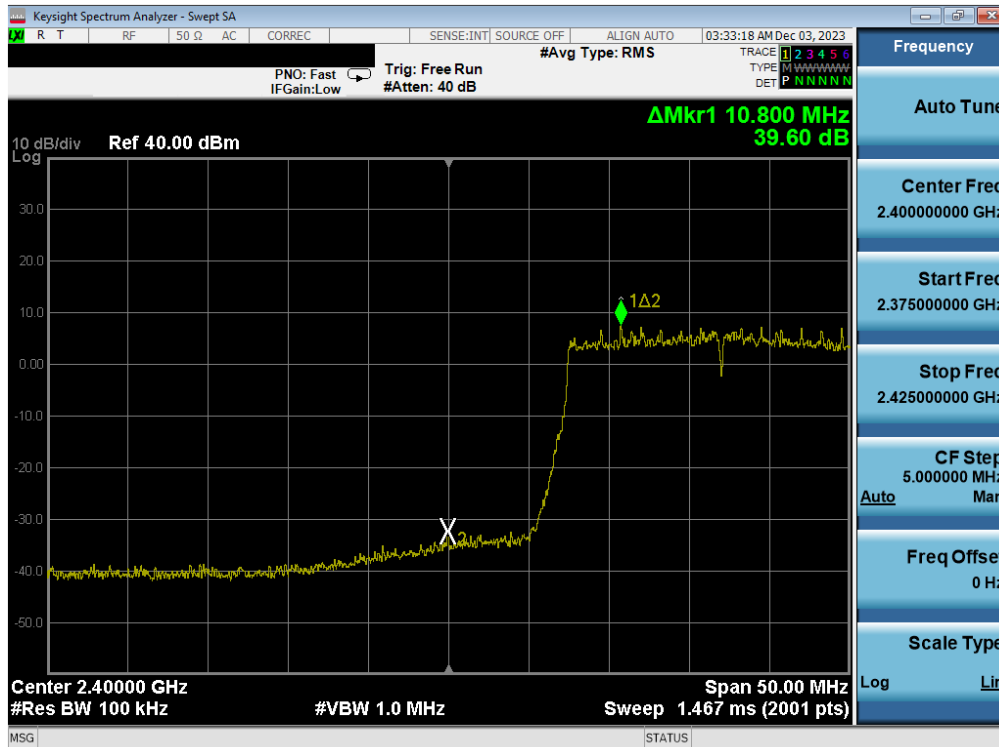


Plot 7-228. Band Edge Plot Antenna 3a (802.11n (2.4GHz) – Ch. 13) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 157 of 388

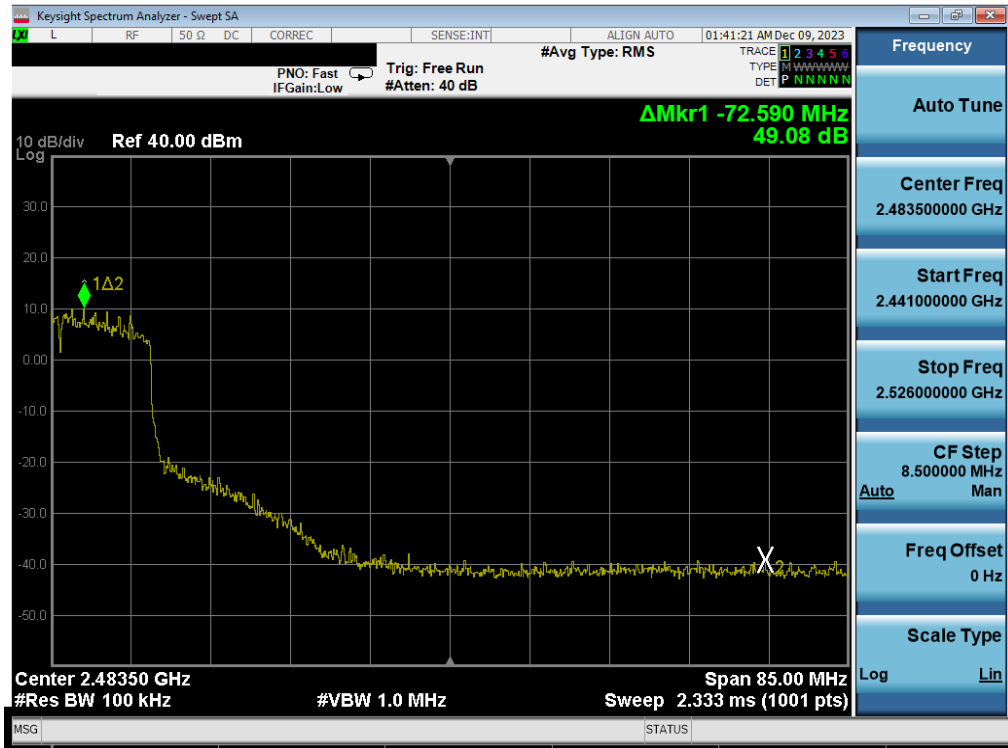


Plot 7-229. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4

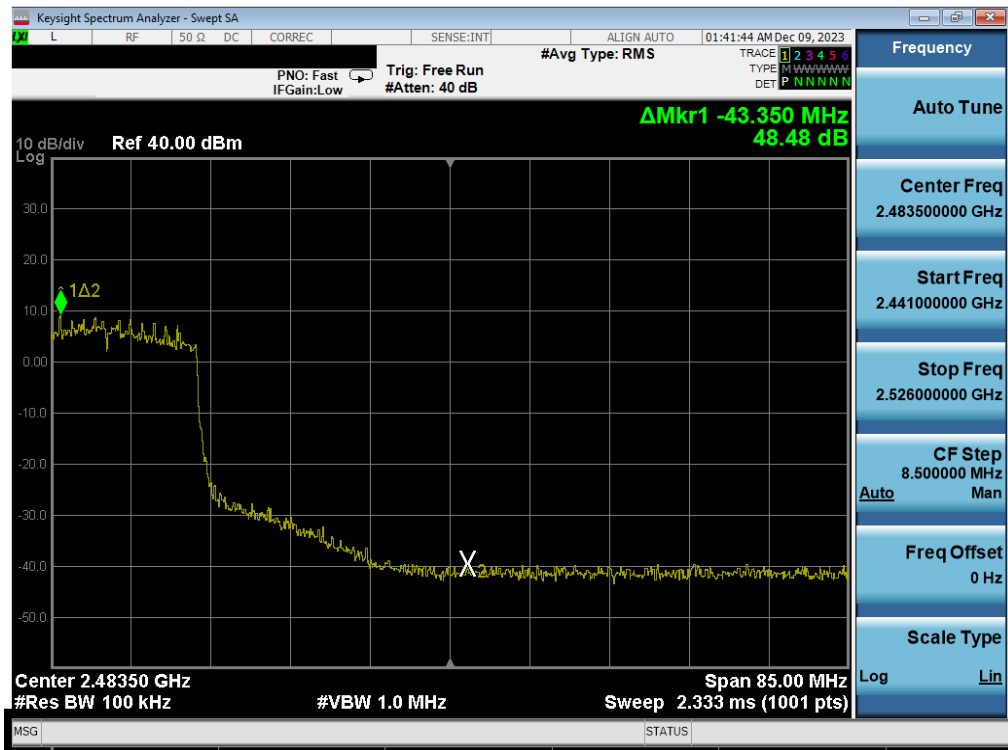


Plot 7-230. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 158 of 388

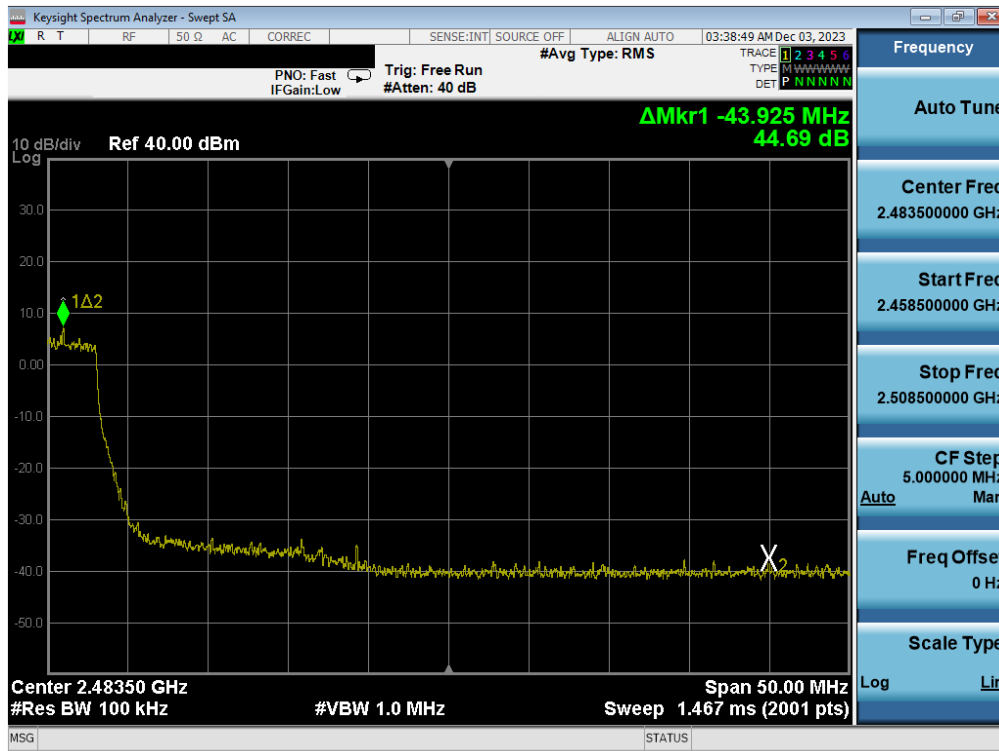


Plot 7-233. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 7) – MCS4

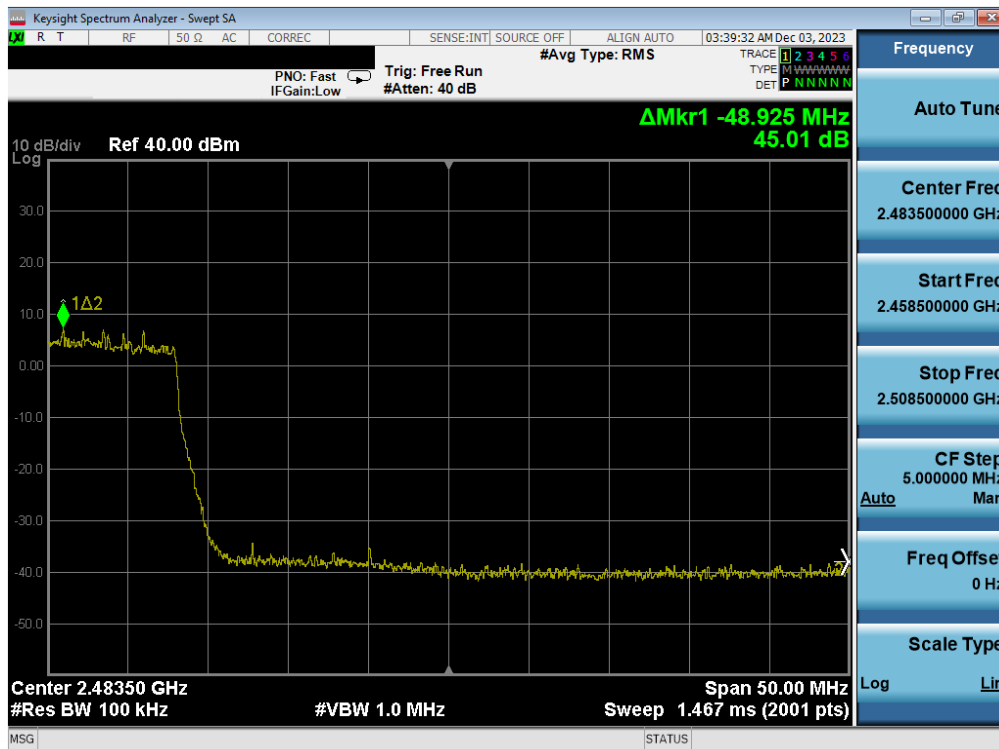


Plot 7-234. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 8) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 160 of 388

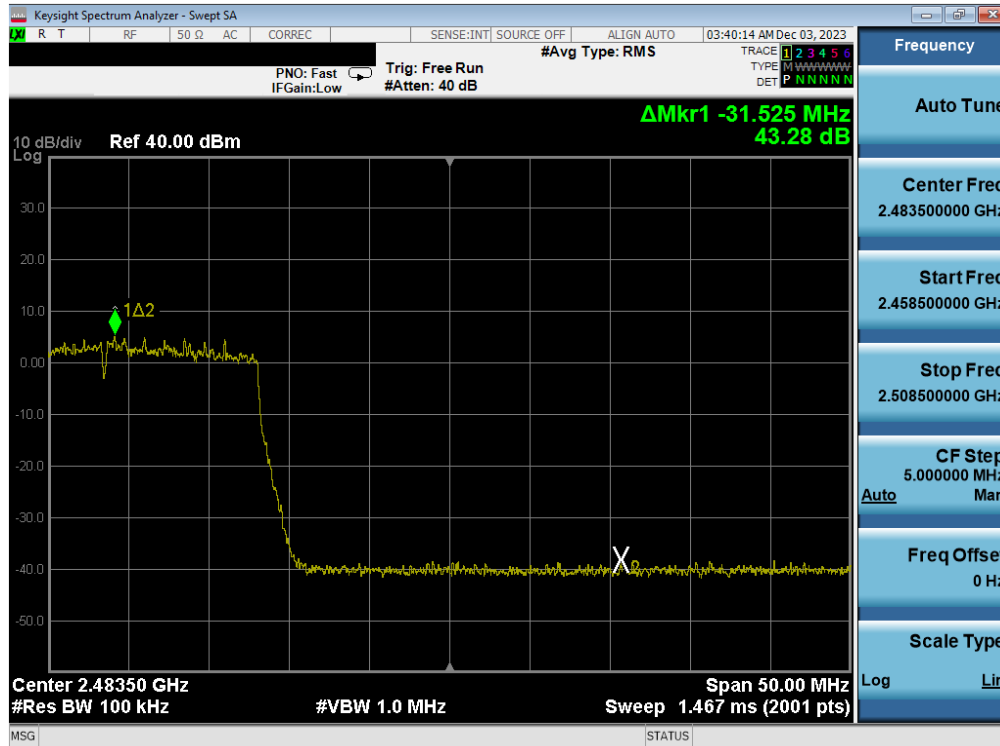


Plot 7-235. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS4

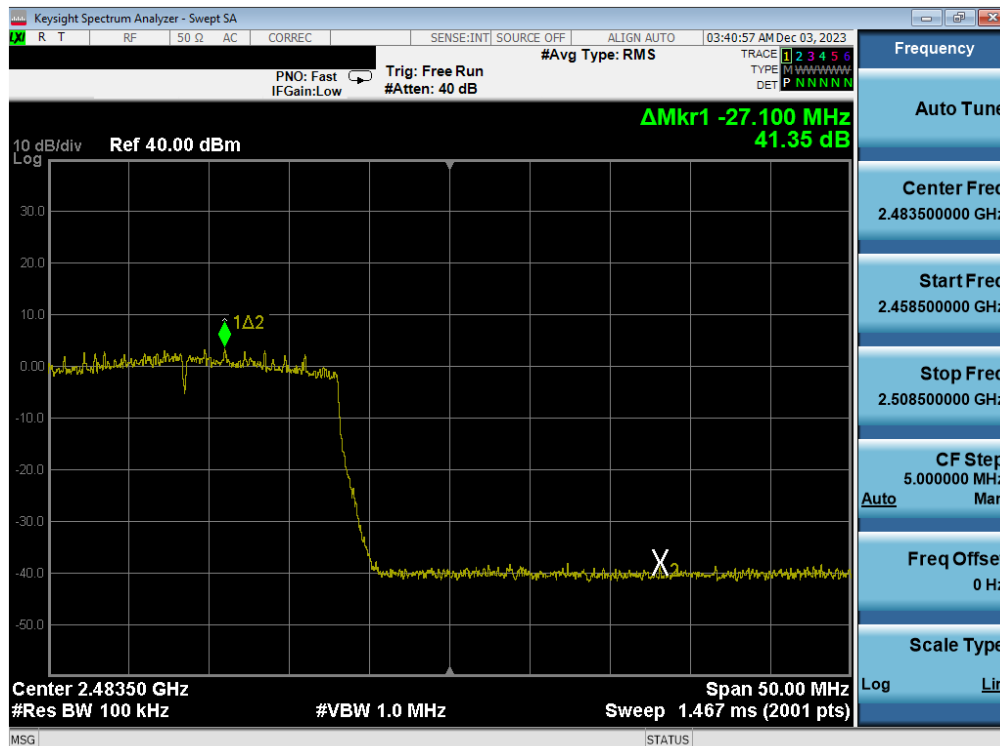


Plot 7-236. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 161 of 388



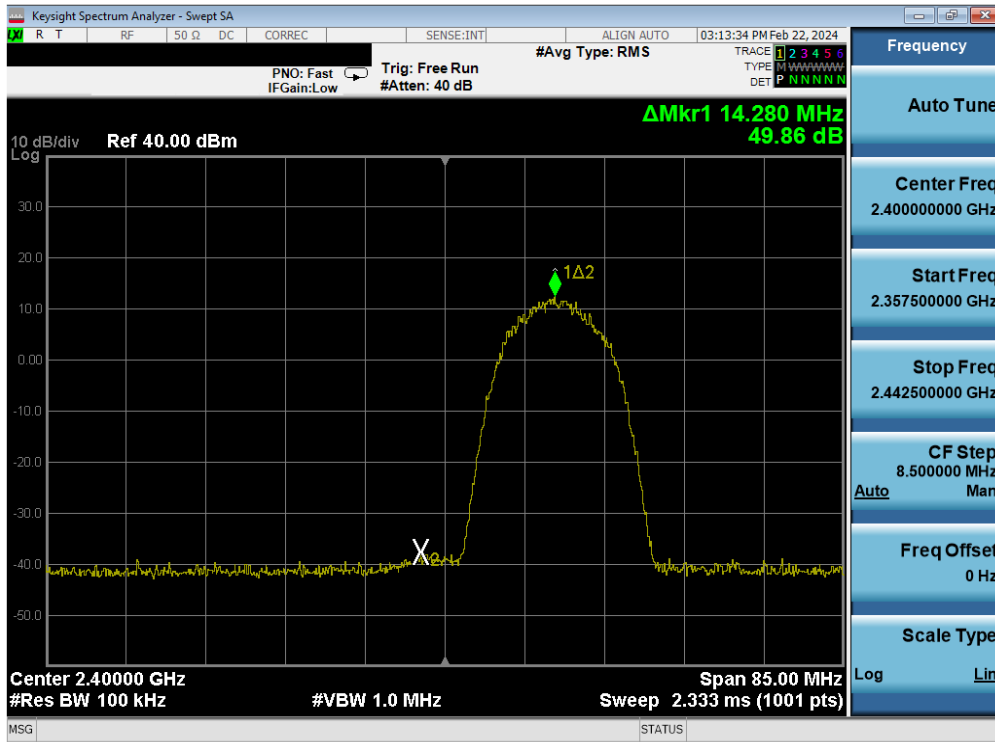
Plot 7-237. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4



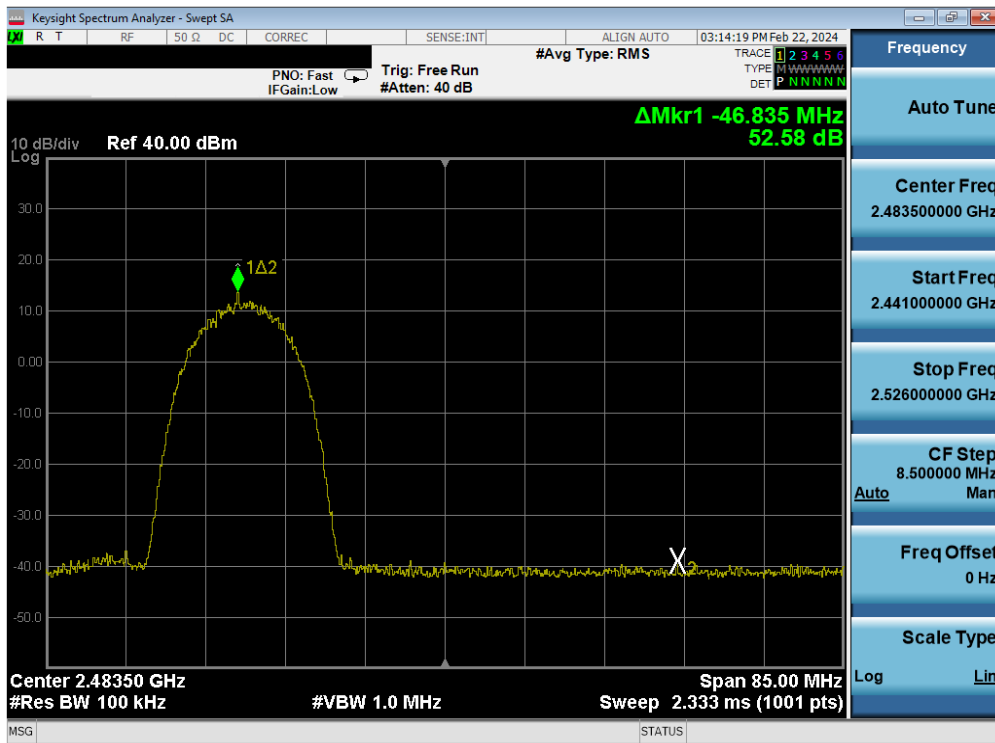
Plot 7-238. Band Edge Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS4

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 162 of 388

High Rate

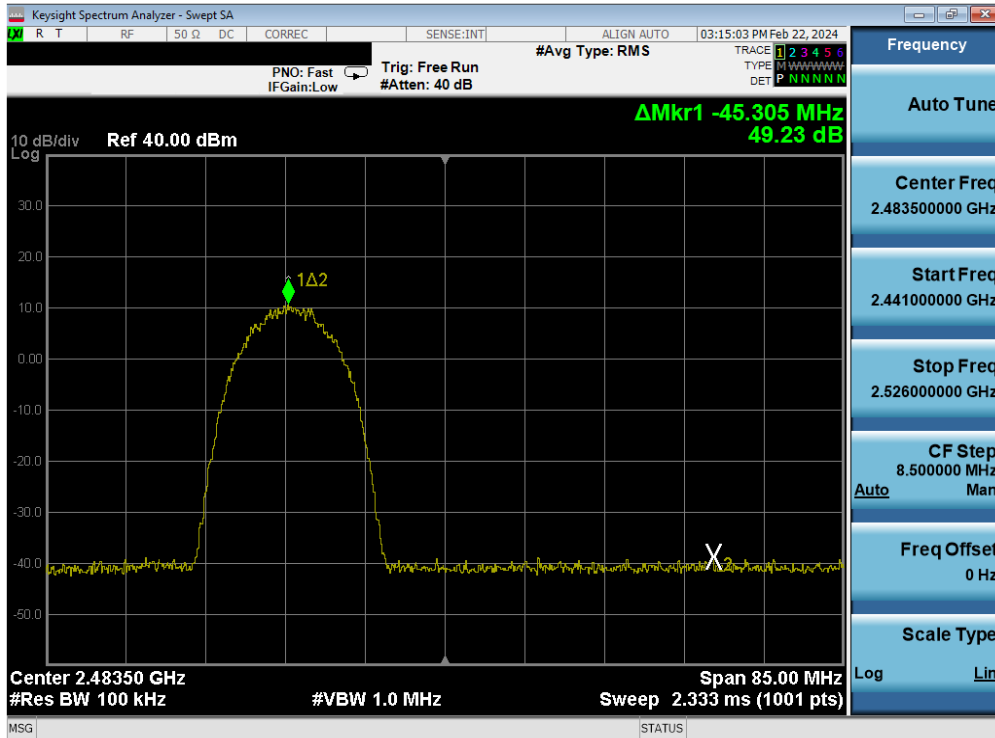


Plot 7-239. Band Edge Plot Antenna 3a (802.11b – Ch. 1) – 11Mbps

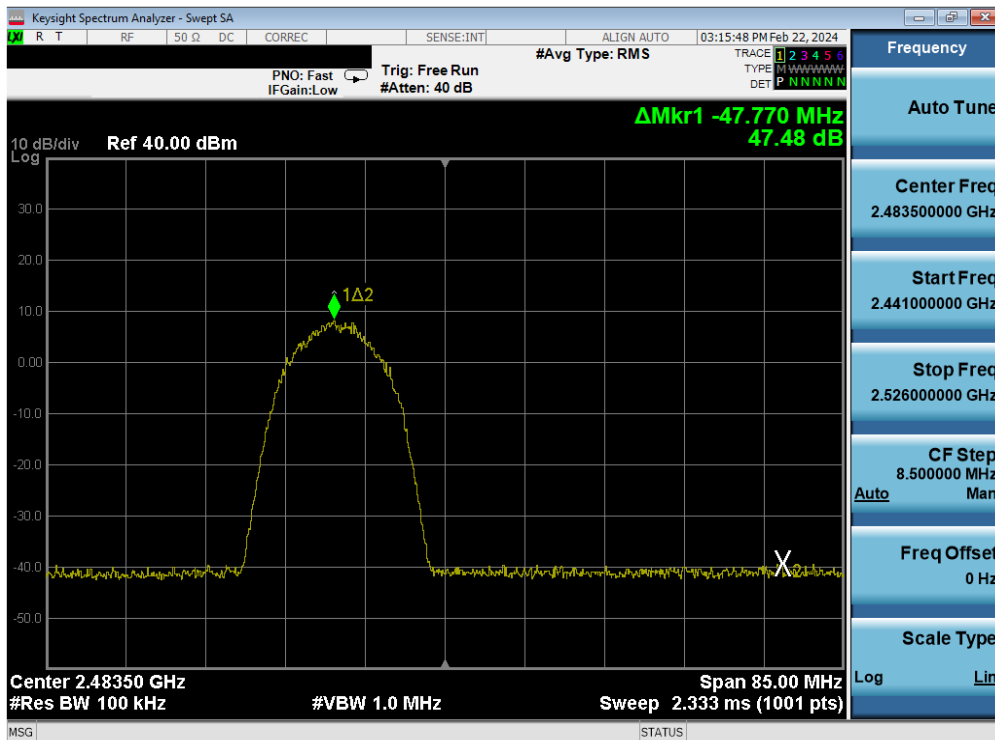


Plot 7-240. Band Edge Plot Antenna 3a (802.11b – Ch. 11) – 11Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 163 of 388

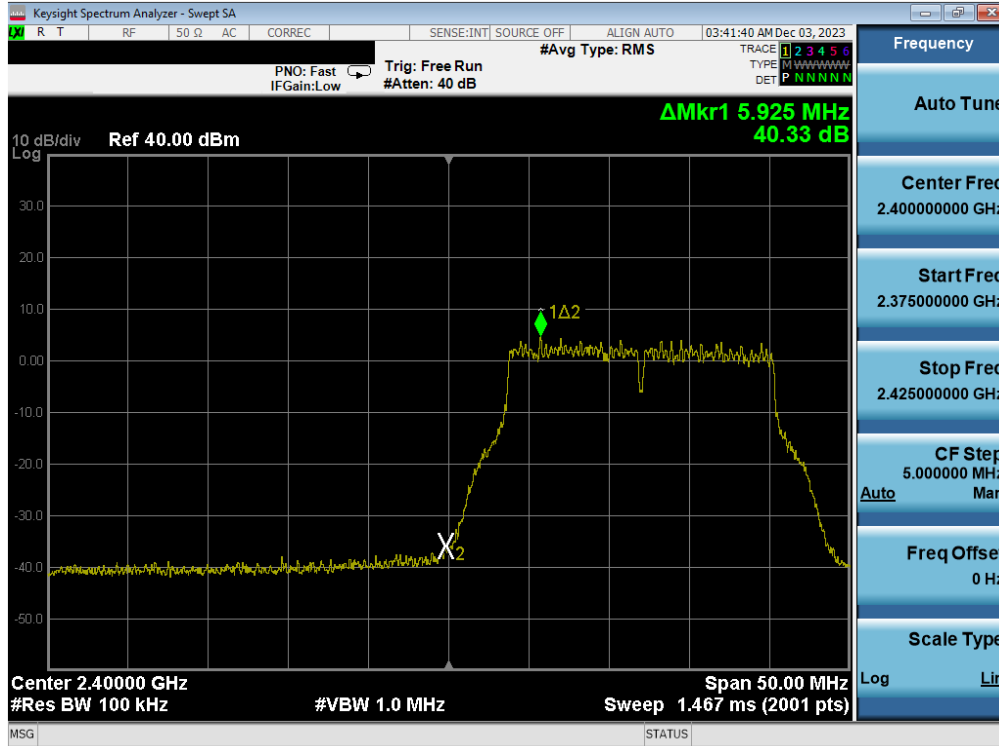


Plot 7-241. Band Edge Plot Antenna 3a (802.11b – Ch. 12) – 11Mbps

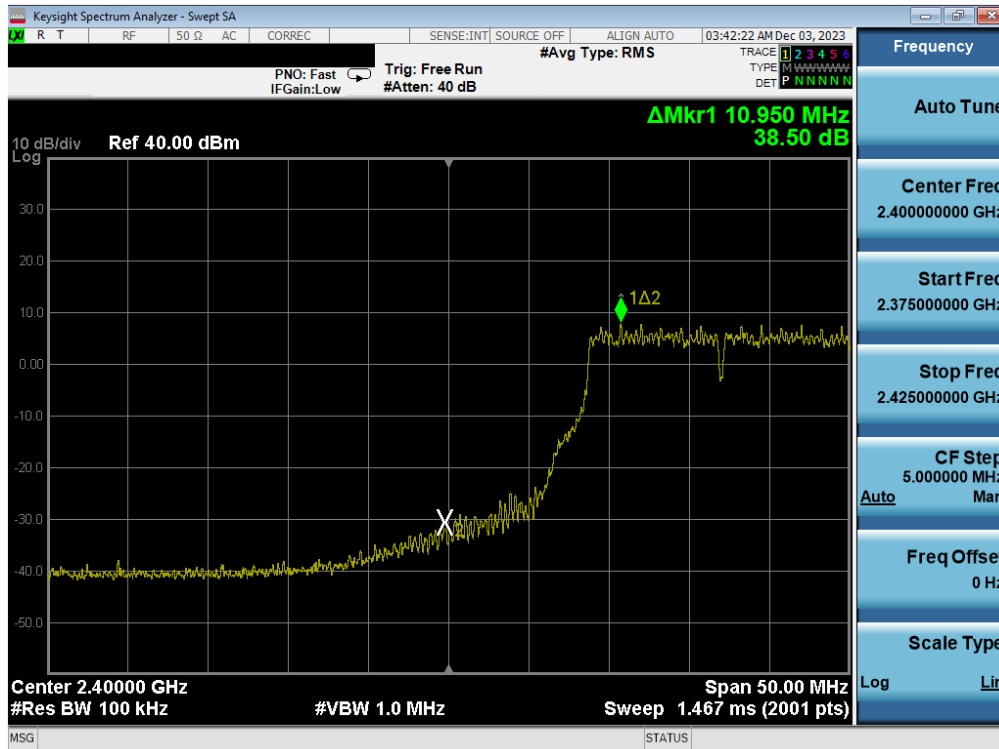


Plot 7-242. Band Edge Plot Antenna 3a (802.11b – Ch. 13) – 11Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 164 of 388

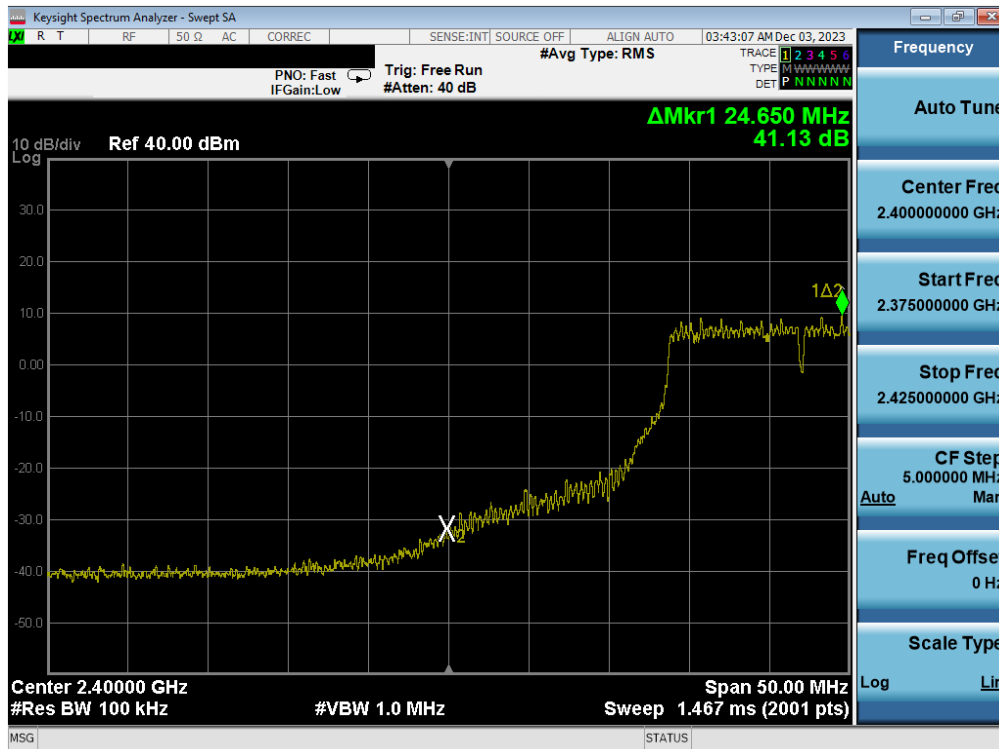


Plot 7-243. Band Edge Plot Antenna 3a (802.11g – Ch. 1) – 54Mbps

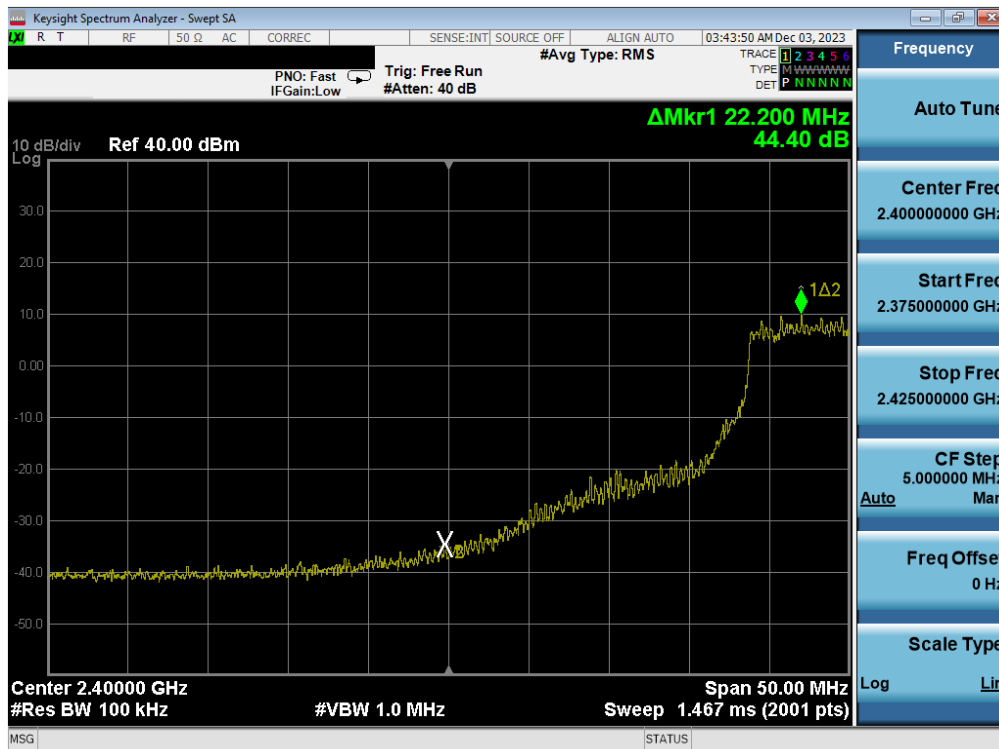


Plot 7-244. Band Edge Plot Antenna 3a (802.11g – Ch. 2) – 54Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 165 of 388

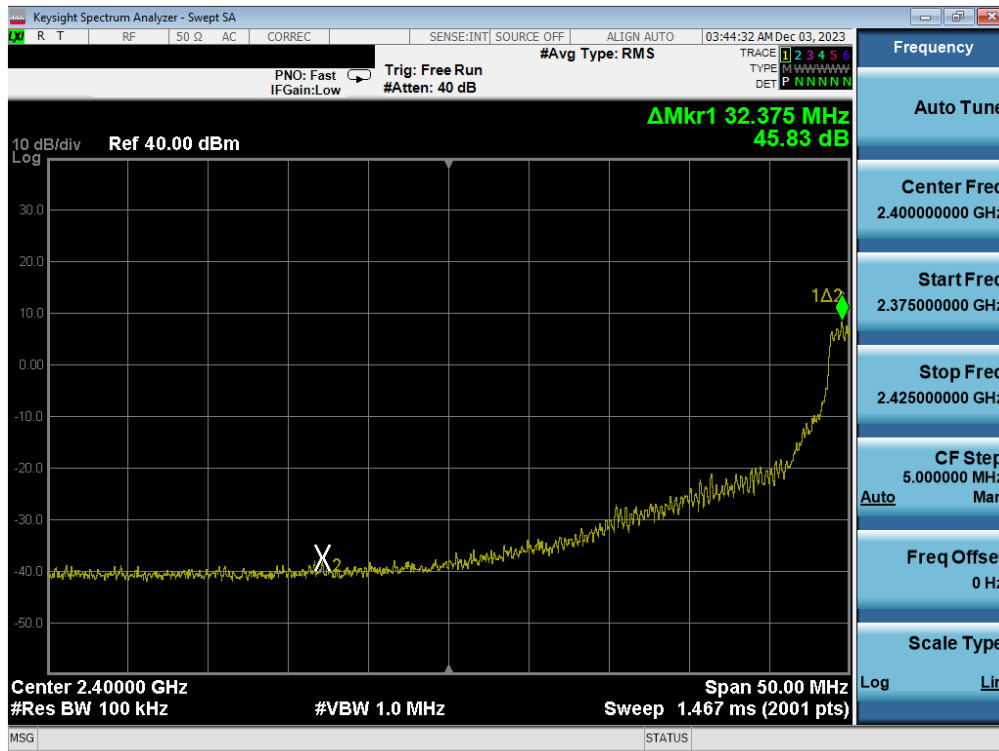


Plot 7-245. Band Edge Plot Antenna 3a (802.11g – Ch. 3) – 54Mbps

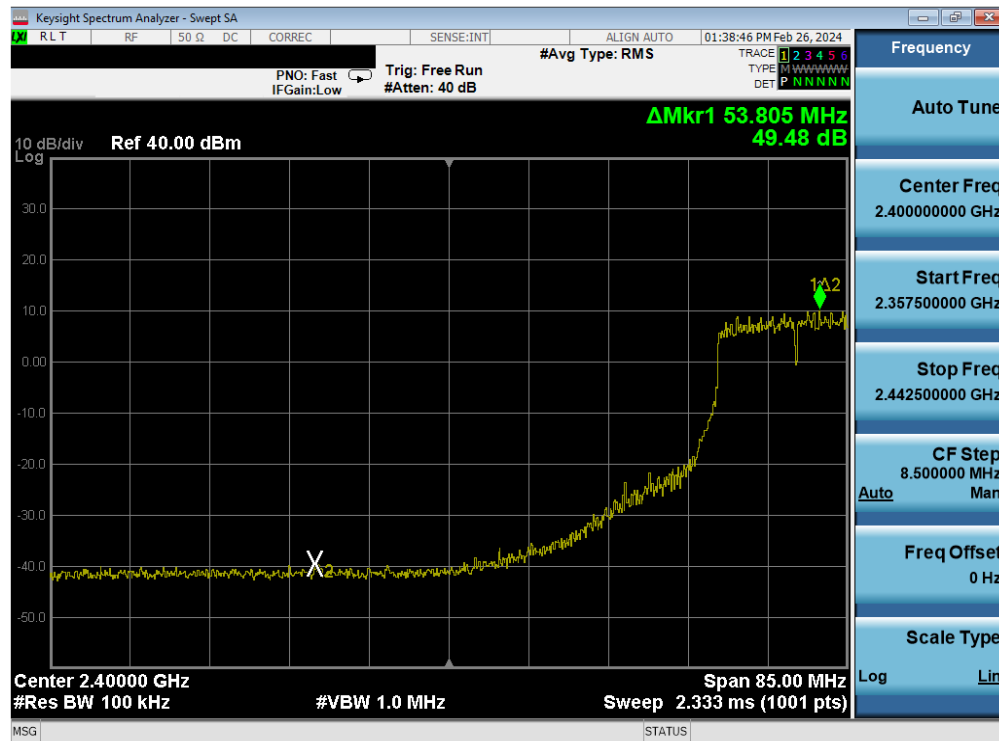


Plot 7-246. Band Edge Plot Antenna 3a (802.11g – Ch. 4) – 54Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 166 of 388

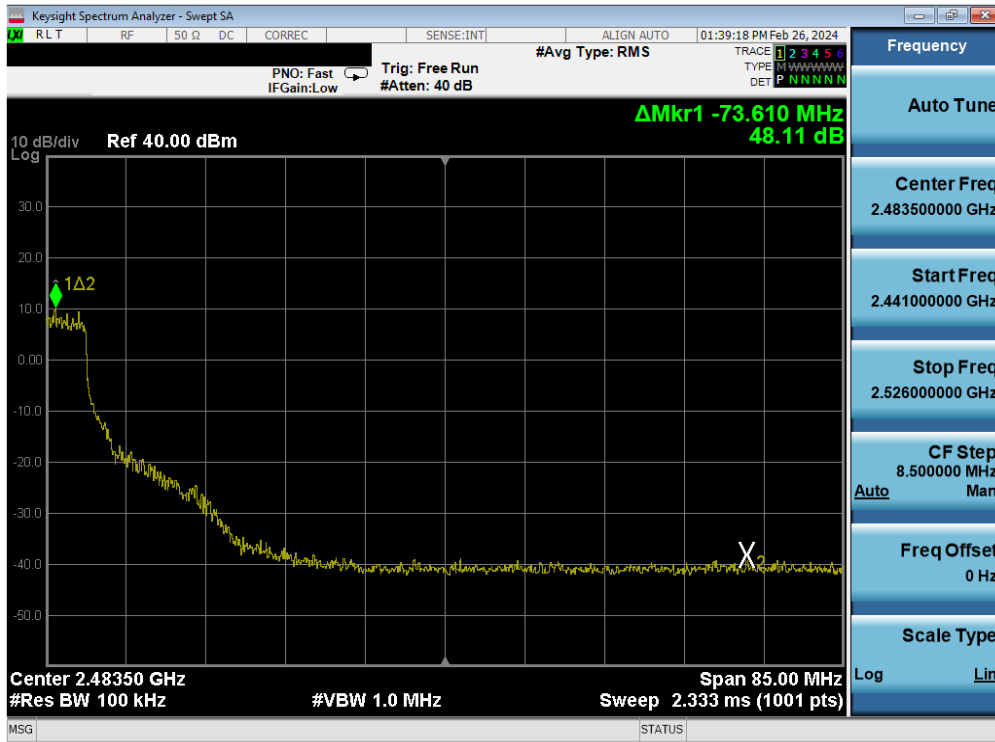


Plot 7-247. Band Edge Plot Antenna 3a (802.11g – Ch. 5) – 54Mbps

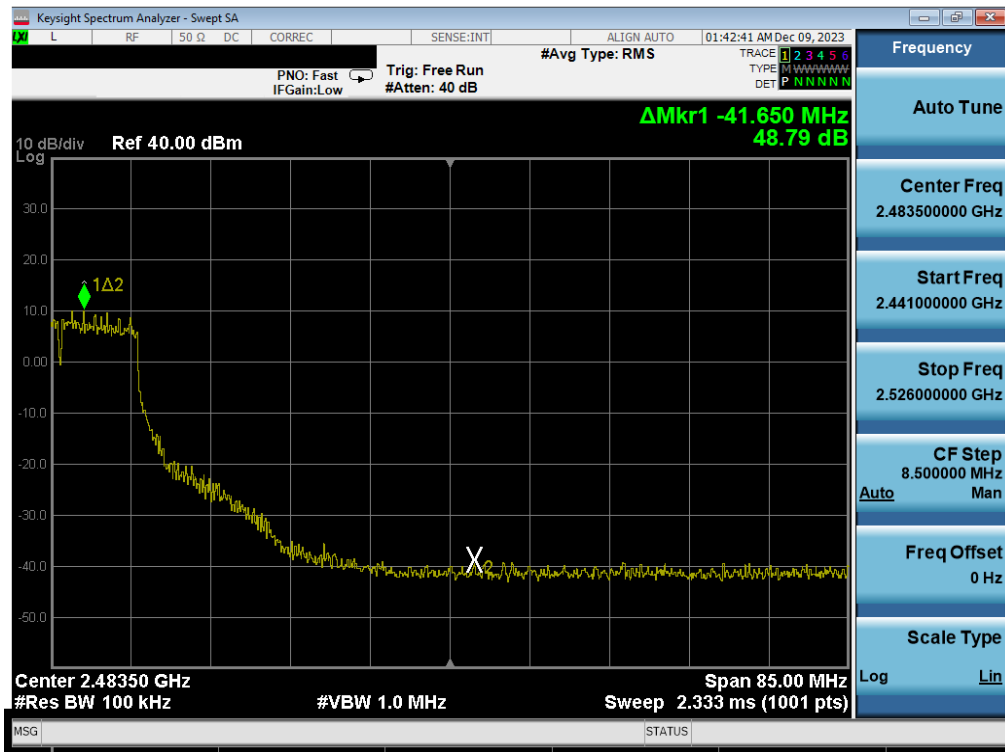


Plot 7-248. Band Edge Plot Antenna 3a (802.11g – Ch. 6 (low)) – 54Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 167 of 388

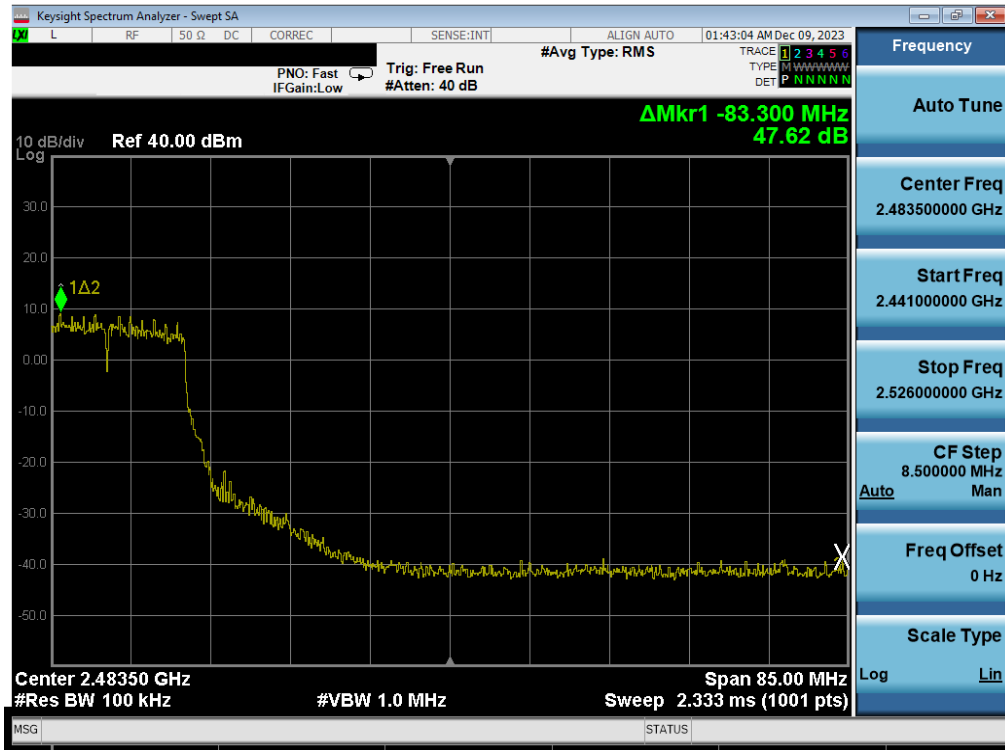


Plot 7-249. Band Edge Plot Antenna 3a (802.11g – Ch. 6 (high)) – 54Mbps

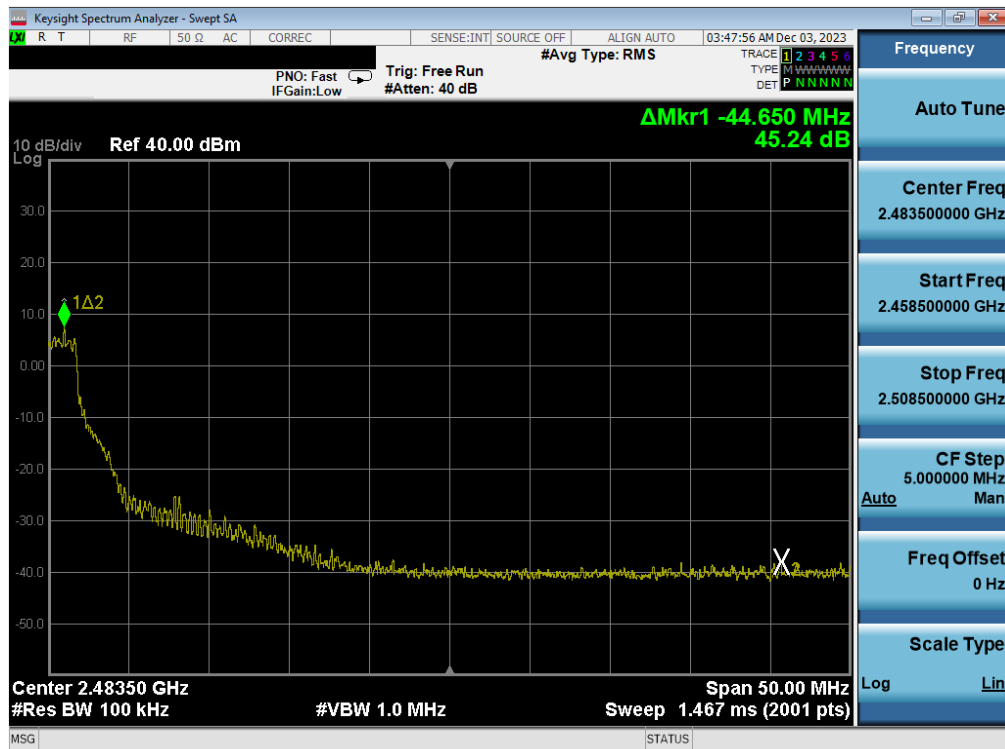


Plot 7-250. Band Edge Plot Antenna 3a (802.11g – Ch. 7) – 54Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 168 of 388



Plot 7-251. Band Edge Plot Antenna 3a (802.11g – Ch. 8) – 54Mbps



Plot 7-252. Band Edge Plot Antenna 3a (802.11g – Ch. 9) – 54Mbps

FCC ID: BCGA2899 IC: 579C-A2899		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270066-16.BCG	Test Dates: 11/29/2023 - 2/25/2024	EUT Type: Tablet Device	Page 169 of 388