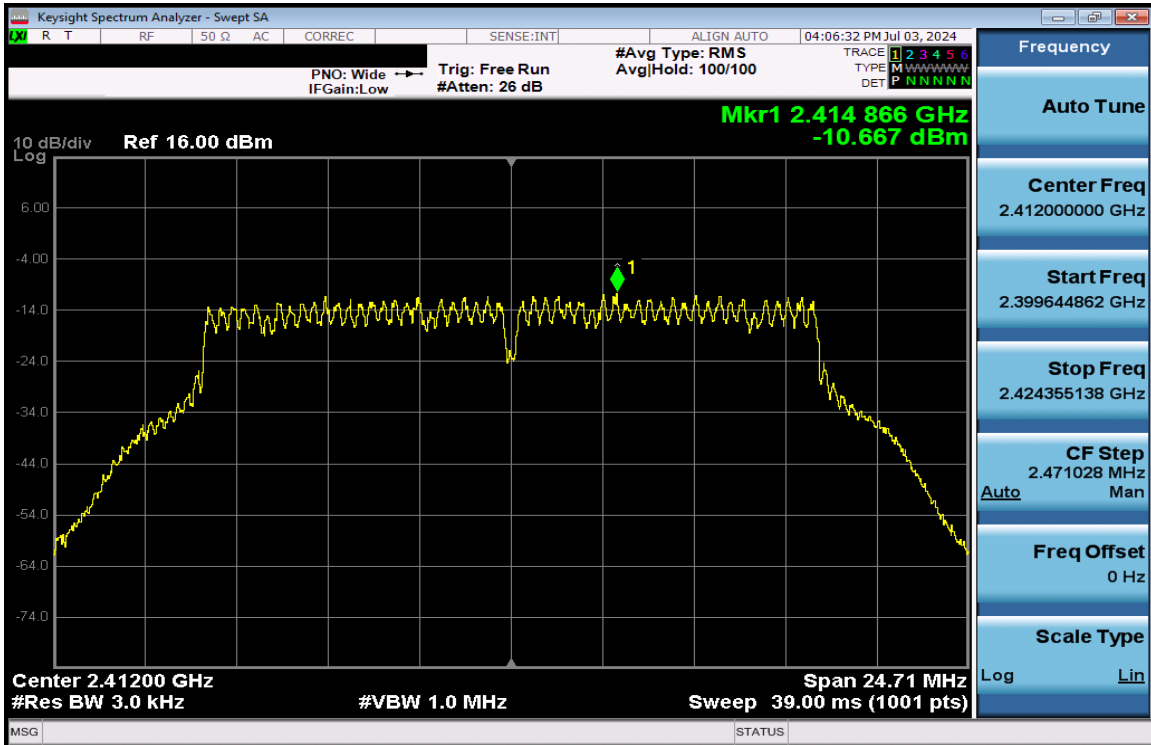
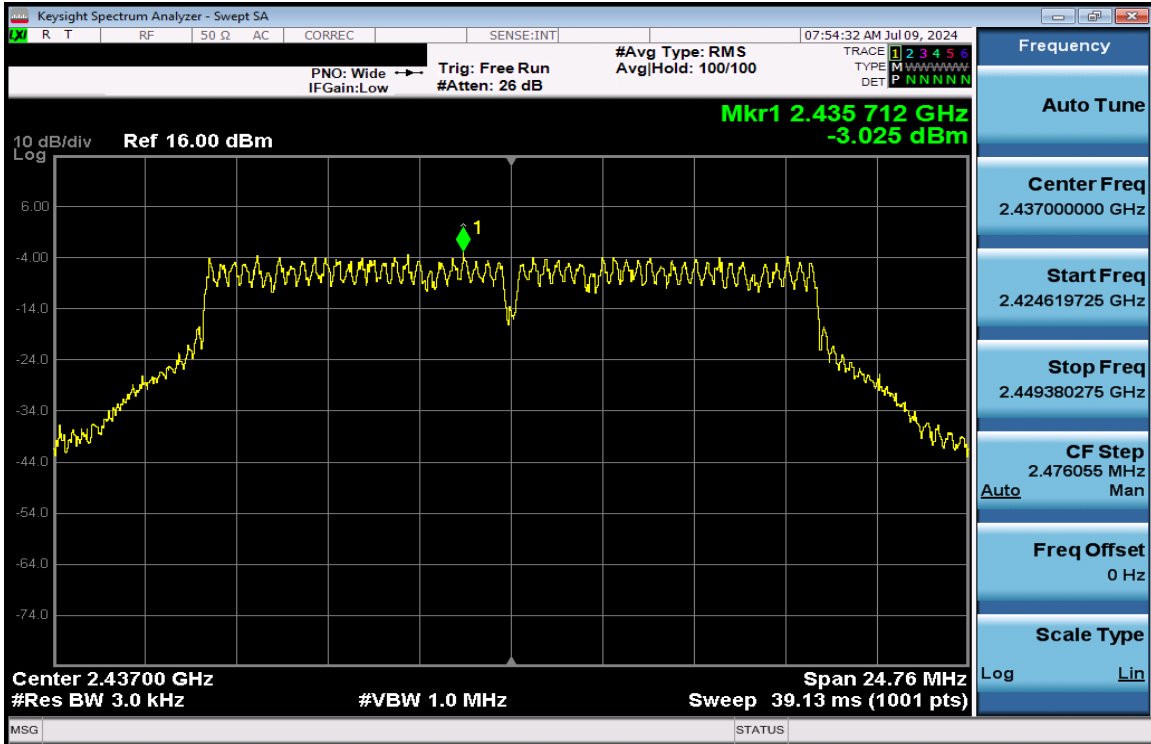


Plot 7-81. Power Spectral Density Plot Antenna 3a (802.11b – Ch. 11) – 11Mbps

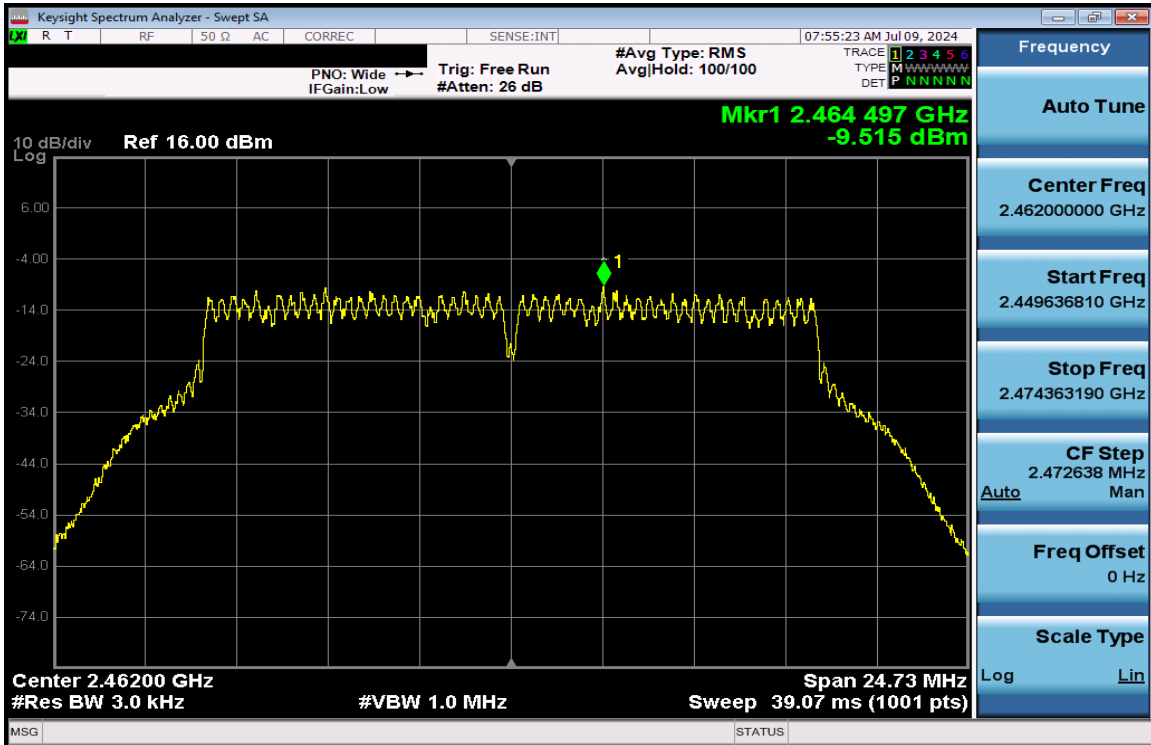


Plot 7-82. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 79 of 430

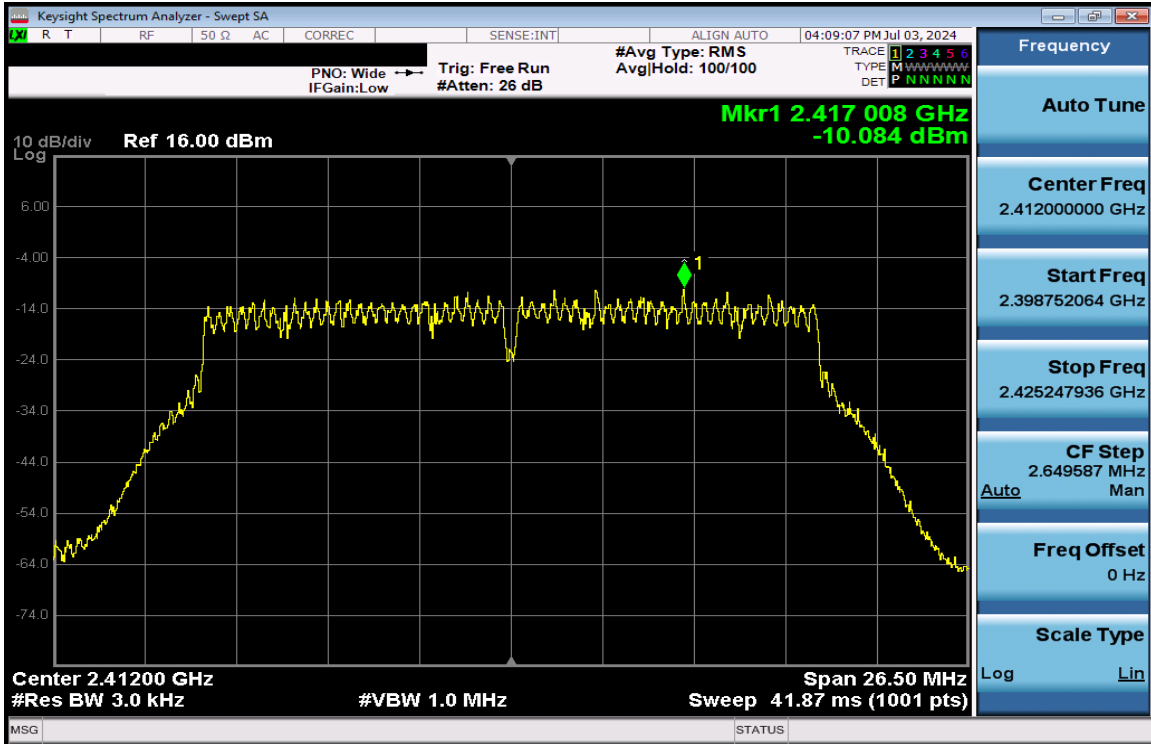


Plot 7-83. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 6) – 54Mbps

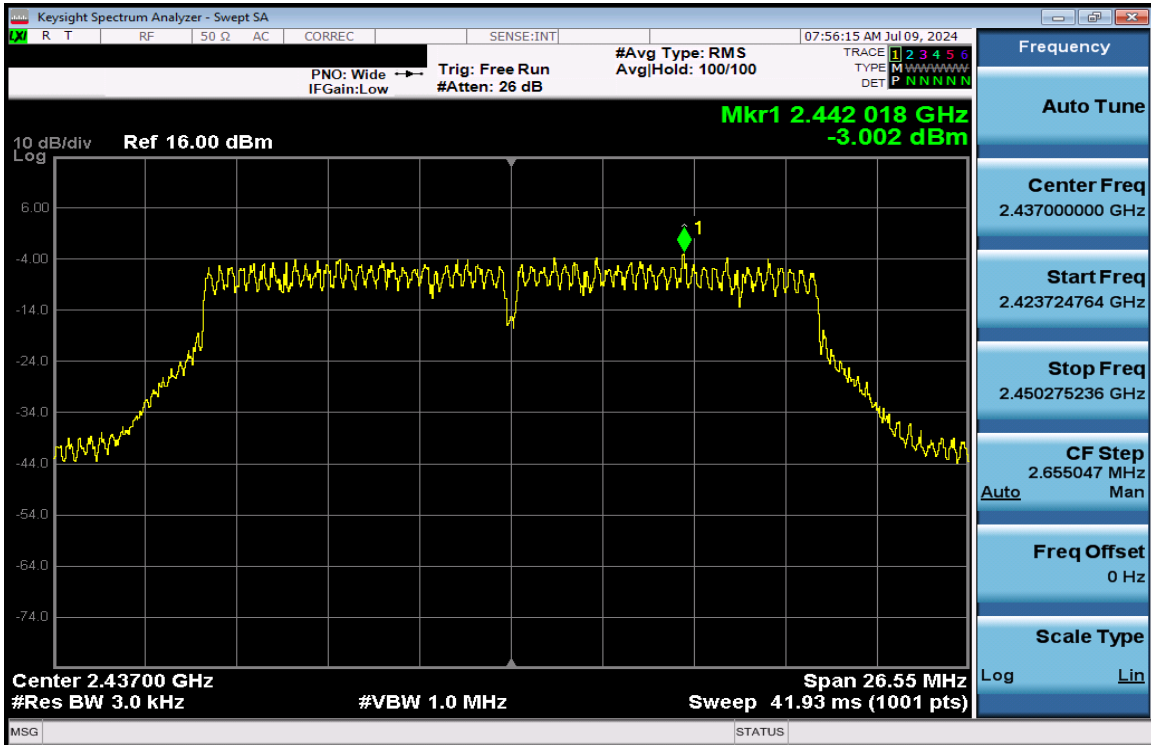


Plot 7-84. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 80 of 430

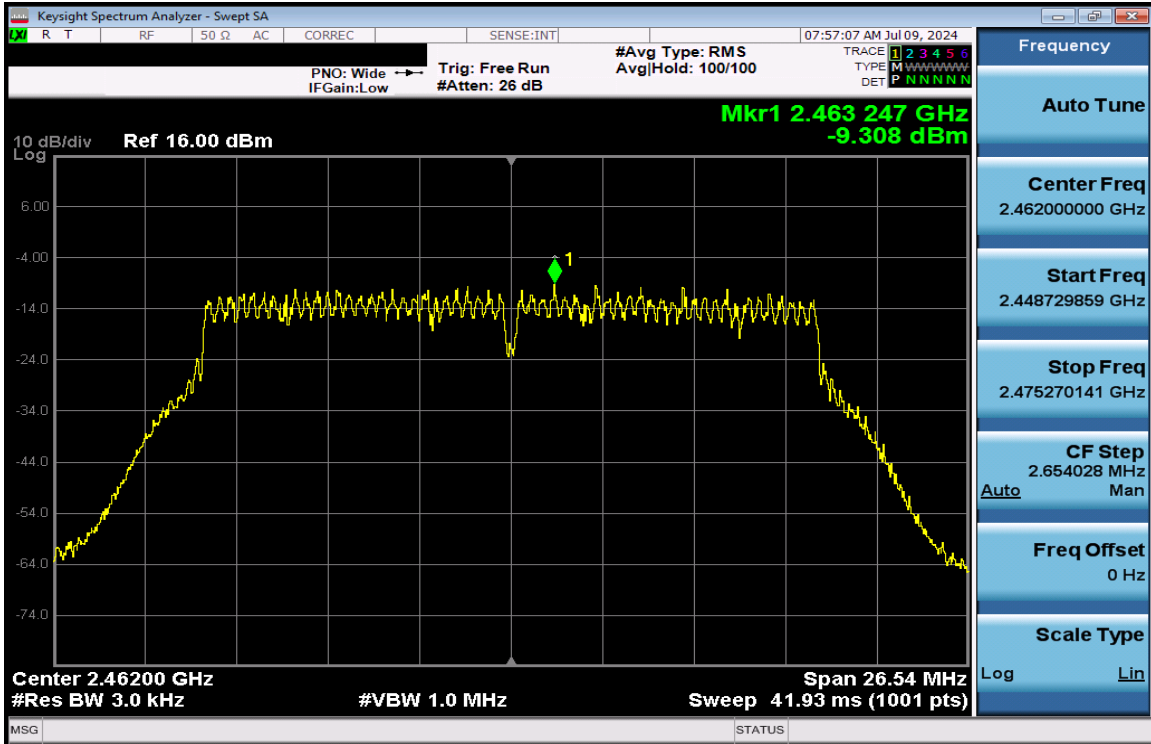


Plot 7-85. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS7

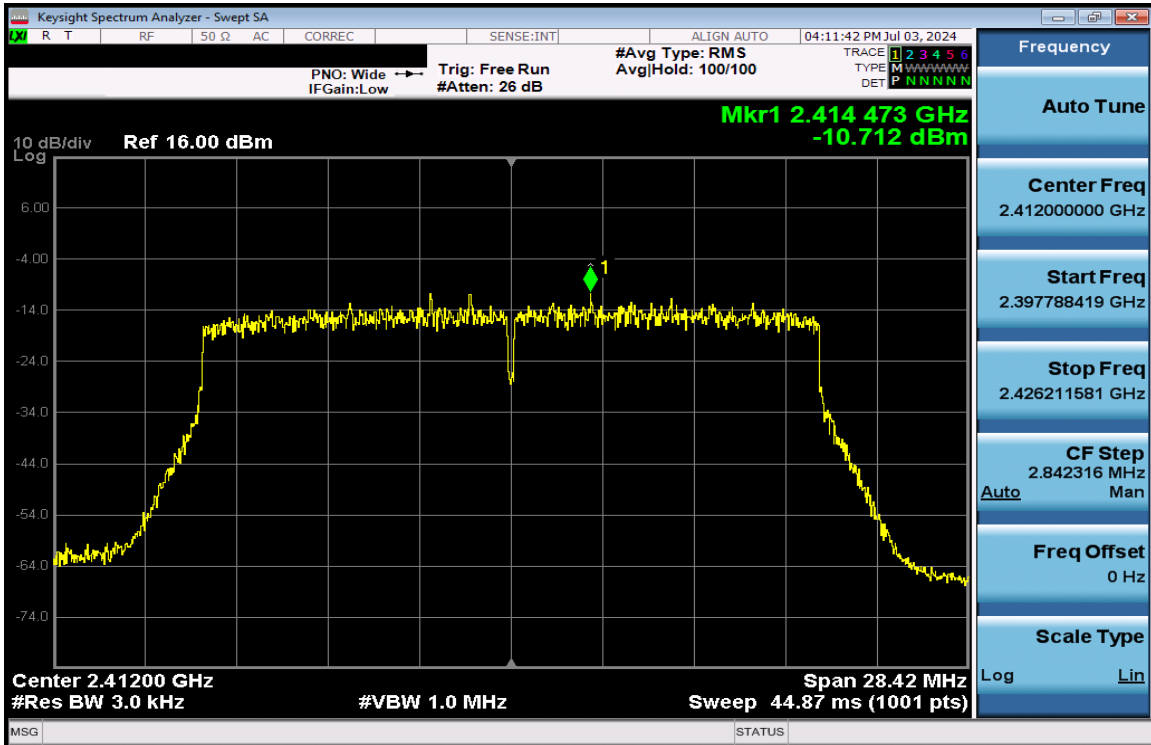


Plot 7-86. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS7

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 81 of 430

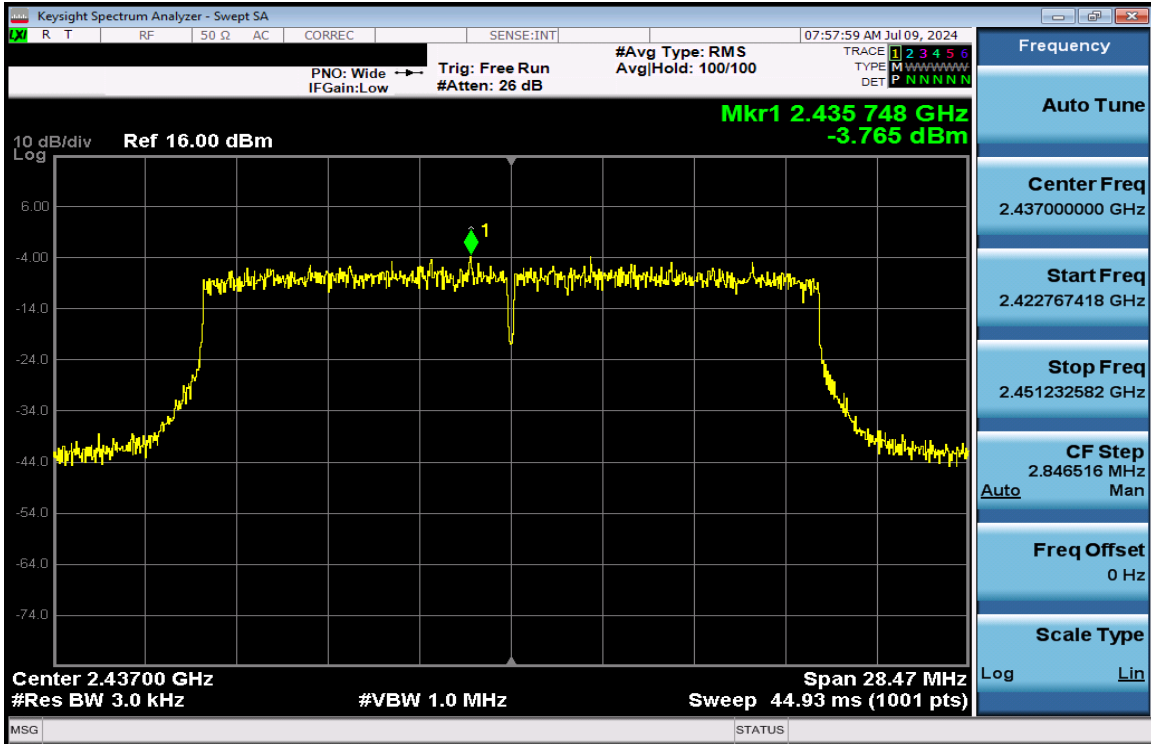


Plot 7-87. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS7

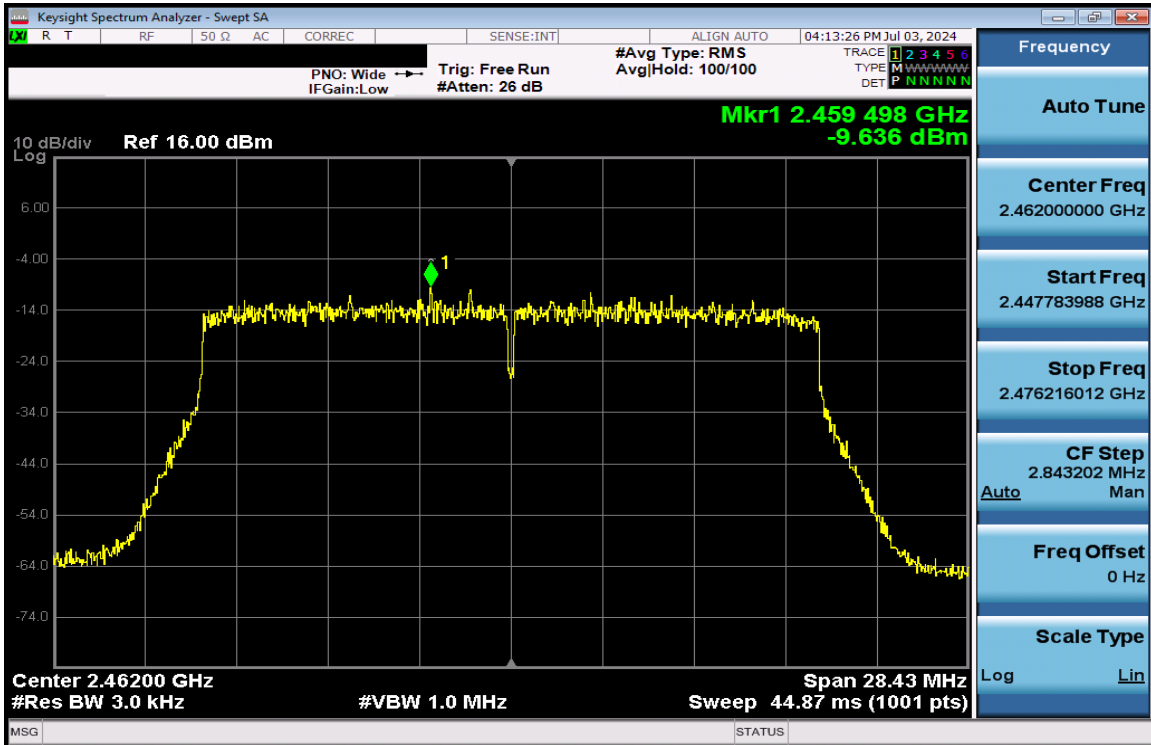


Plot 7-88. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 82 of 430



Plot 7-89. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9



Plot 7-90. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 83 of 430

7.4.2 Antenna 1a Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	12	-8.83	8.00	-16.83	Pass
2437	6	g	12	-0.91	8.00	-8.91	Pass
2462	11	g	12	-7.52	8.00	-15.52	Pass
2412	1	n	19.5/21.7 (MCS2)	-9.61	8.00	-17.61	Pass
2437	6	n	19.5/21.7 (MCS2)	-2.27	8.00	-10.27	Pass
2462	11	n	19.5/21.7 (MCS2)	-8.53	8.00	-16.53	Pass
2412	1	ax (SU)	24/25.8 (MCS2)	-10.68	8.00	-18.68	Pass
2437	6	ax (SU)	24/25.8 (MCS2)	-3.89	8.00	-11.89	Pass
2462	11	ax (SU)	24/25.8 (MCS2)	-9.83	8.00	-17.83	Pass

Table 7-41. Conducted Power Density Measurements Antenna 1a (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	24	-9.98	8.00	-17.98	Pass
2437	6	g	24	-2.14	8.00	-10.14	Pass
2462	11	g	24	-7.90	8.00	-15.90	Pass
2412	1	n	39/43.3 (MCS4)	-9.41	8.00	-17.41	Pass
2437	6	n	39/43.3 (MCS4)	-2.04	8.00	-10.04	Pass
2462	11	n	39/43.3 (MCS4)	-8.39	8.00	-16.39	Pass
2412	1	ax (SU)	49/51.6 (MCS4)	-10.91	8.00	-18.91	Pass
2437	6	ax (SU)	49/51.6 (MCS4)	-2.95	8.00	-10.95	Pass
2462	11	ax (SU)	49/51.6 (MCS4)	-9.64	8.00	-17.64	Pass

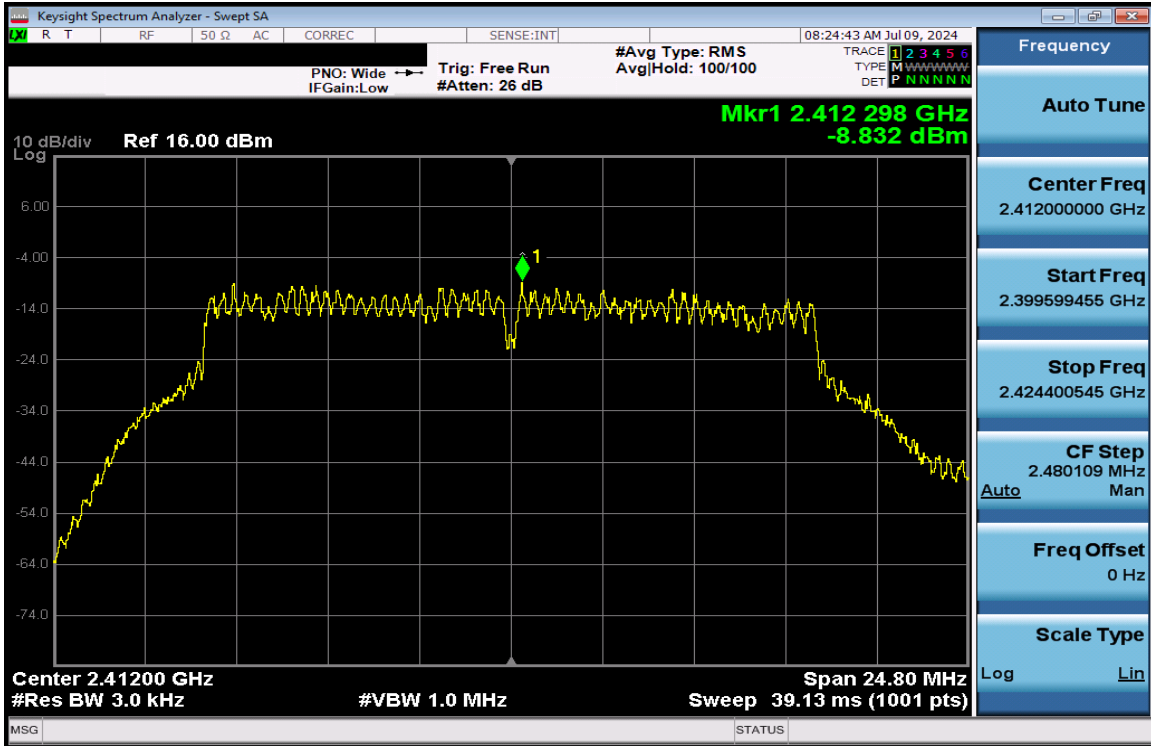
Table 7-42. Conducted Power Density Measurements Antenna 1a (Mid Data Rate)

Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	b	11	-1.36	8.00	-9.36	Pass
2437	6	b	11	-0.56	8.00	-8.56	Pass
2462	11	b	11	-1.48	8.00	-9.48	Pass
2412	1	g	54	-10.22	8.00	-18.22	Pass
2437	6	g	54	-3.04	8.00	-11.04	Pass
2462	11	g	54	-9.35	8.00	-17.35	Pass
2412	1	n	65/72.2 (MCS7)	-10.46	8.00	-18.46	Pass
2437	6	n	65/72.2 (MCS7)	-2.99	8.00	-10.99	Pass
2462	11	n	65/72.2 (MCS7)	-9.47	8.00	-17.47	Pass
2412	1	ax (SU)	81/86 (MCS9)	-11.23	8.00	-19.23	Pass
2437	6	ax (SU)	81/86 (MCS9)	-3.95	8.00	-11.95	Pass
2462	11	ax (SU)	81/86 (MCS9)	-8.66	8.00	-16.66	Pass

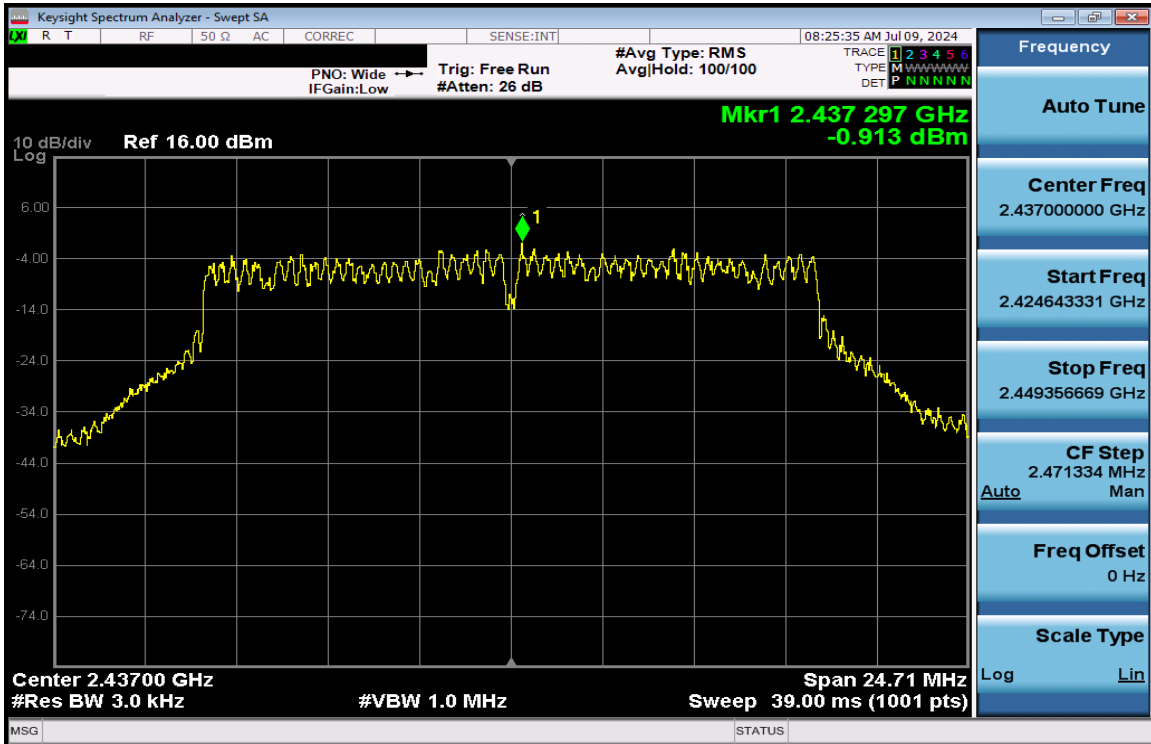
Table 7-43. Conducted Power Density Measurements Antenna 1a (High Data Rate)

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 84 of 430

Low Rate

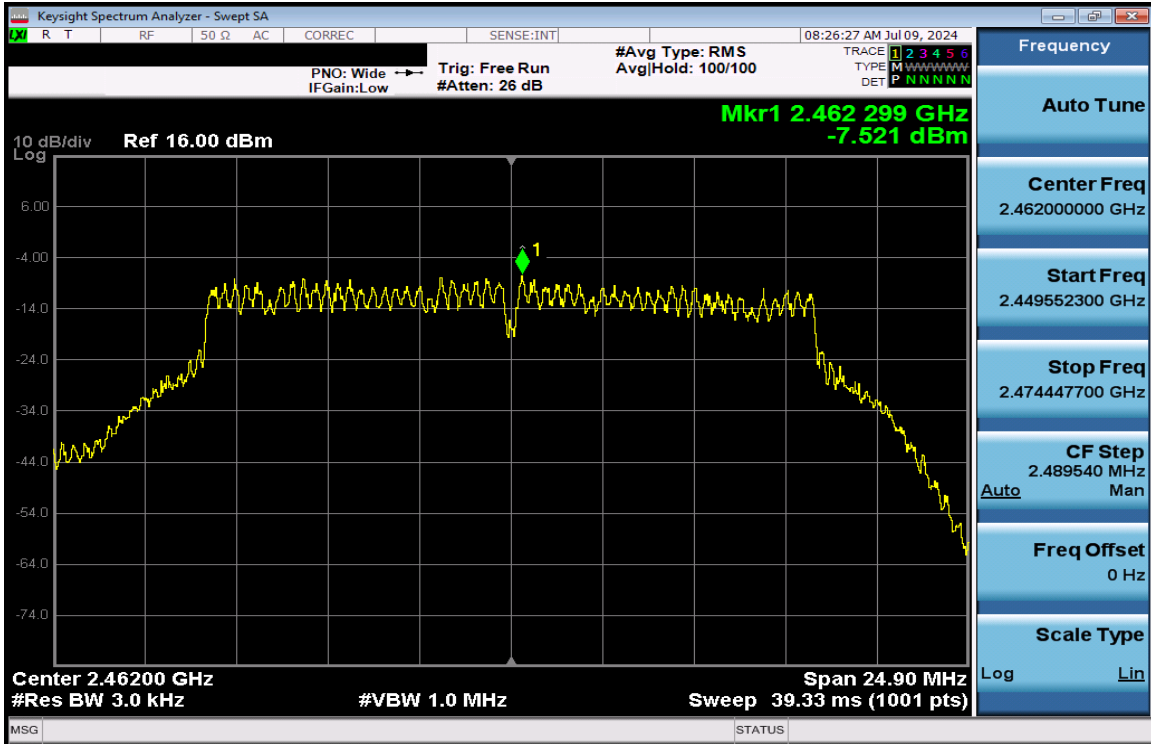


Plot 7-91. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 1) – 6Mbps

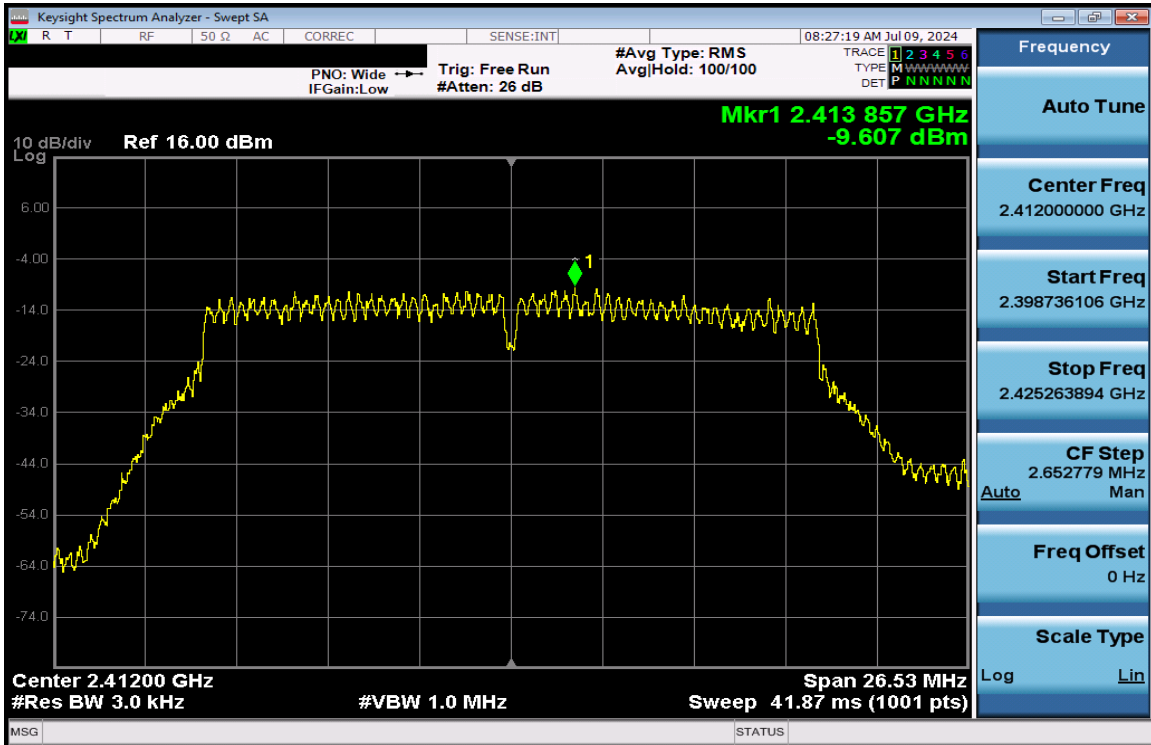


Plot 7-92. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 6) – 6Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 85 of 430

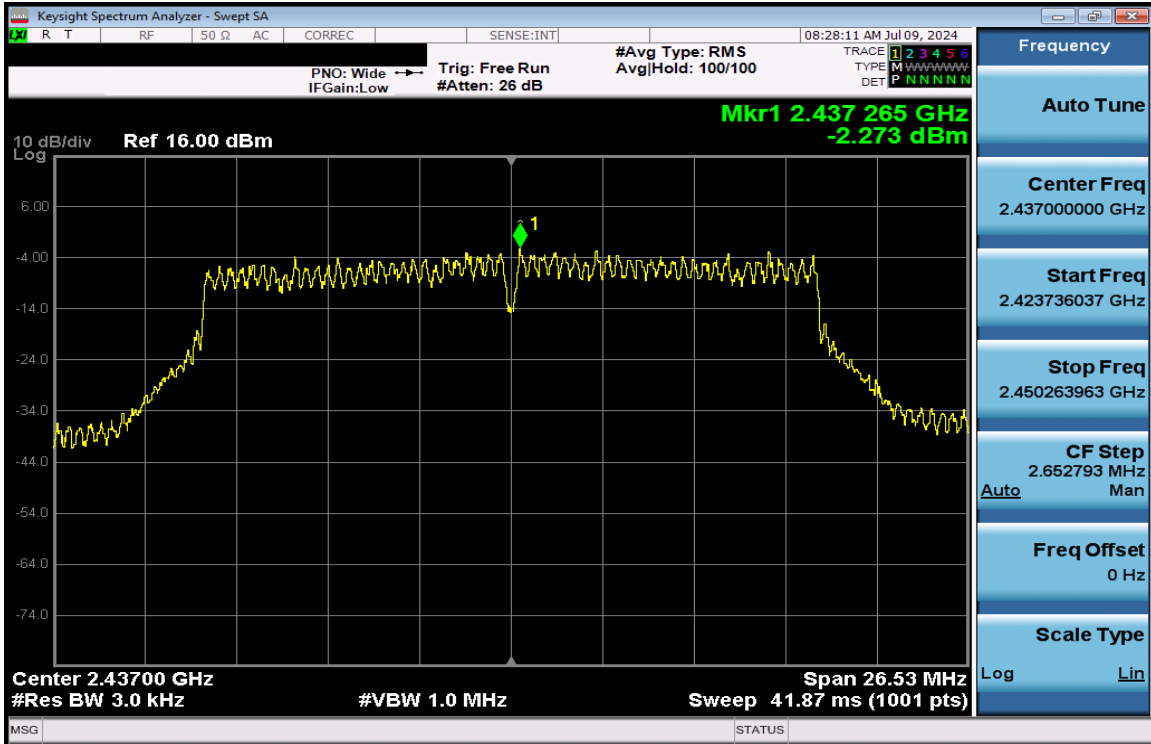


Plot 7-93. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 11) – 6Mbps



Plot 7-94. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 86 of 430



Plot 7-95. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS2



Plot 7-96. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 87 of 430

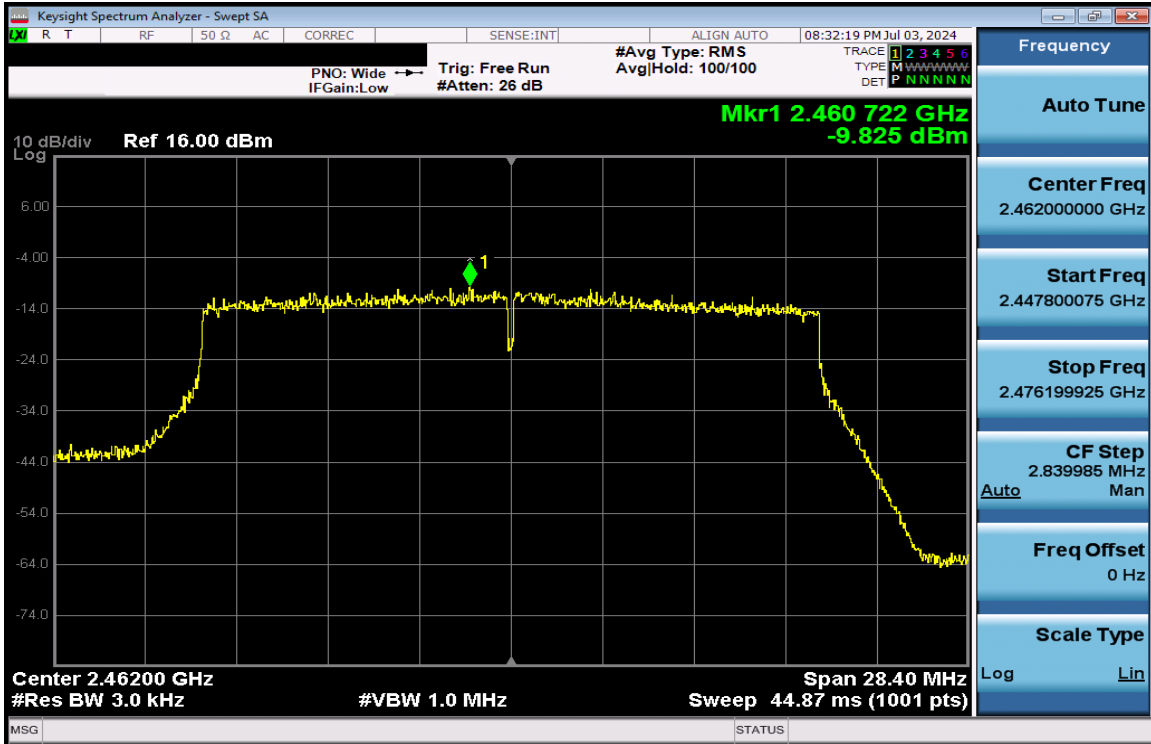


Plot 7-97. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2



Plot 7-98. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

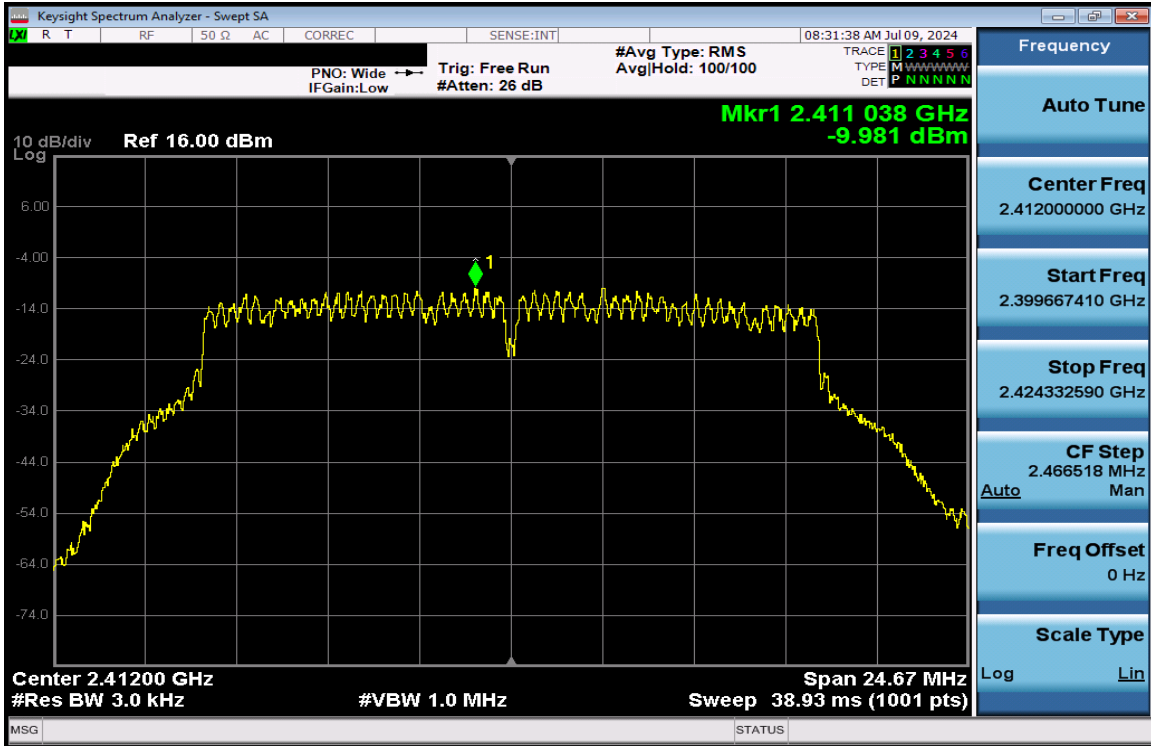
FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 88 of 430



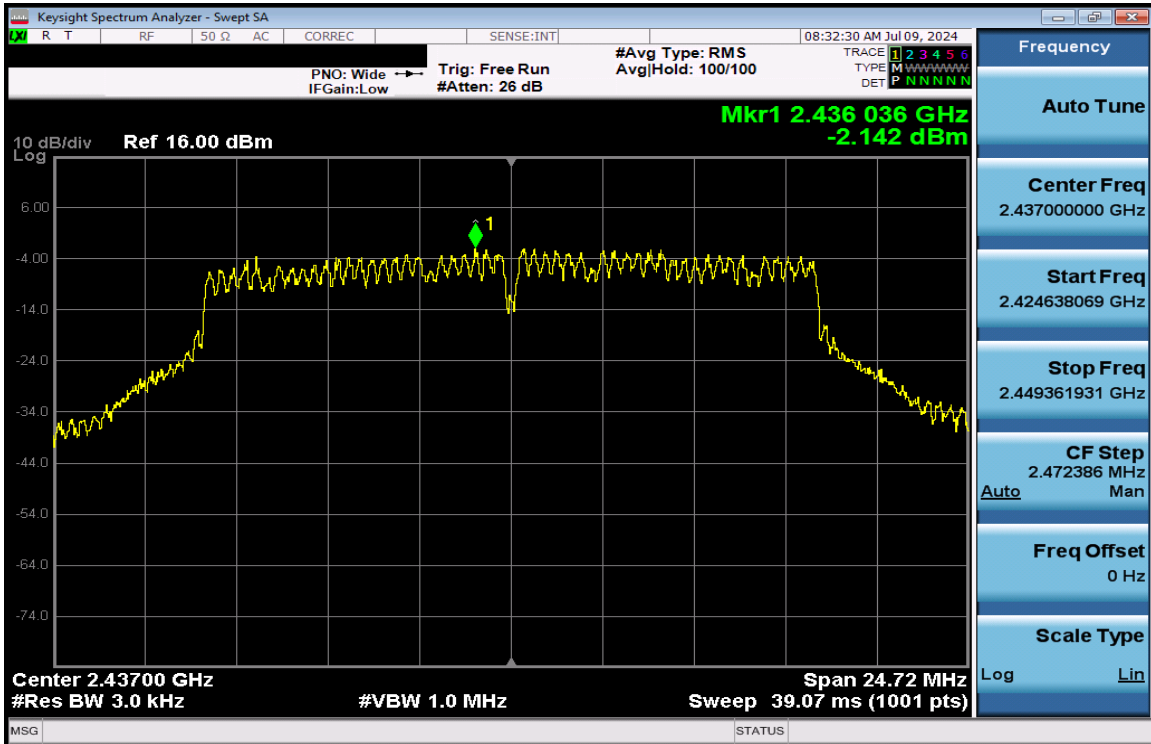
Plot 7-99. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 89 of 430

Mid Rate

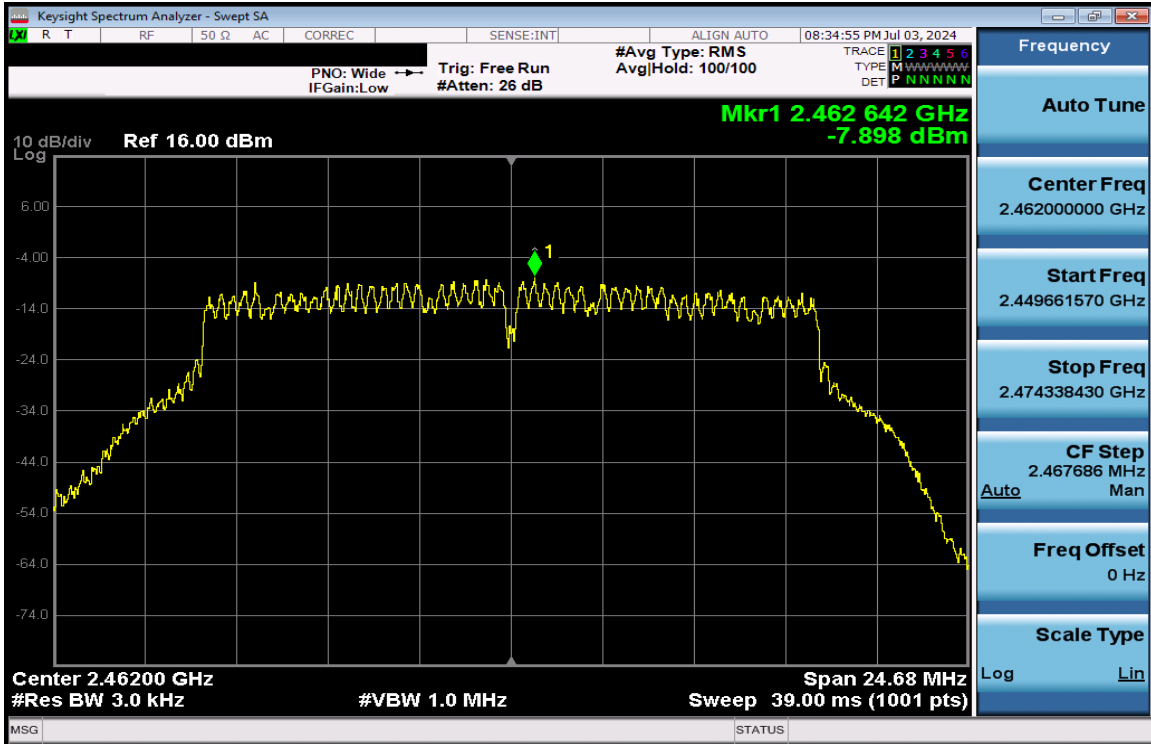


Plot 7-100. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 1) – 24Mbps

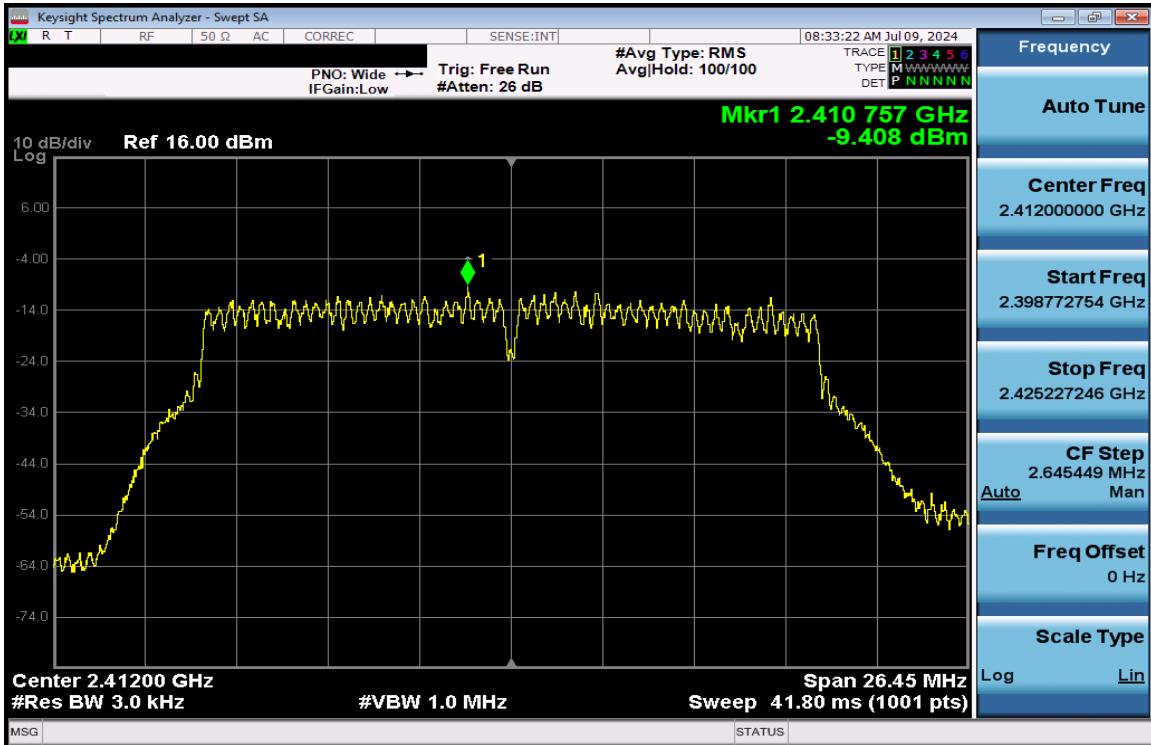


Plot 7-101. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 6) – 24Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 90 of 430

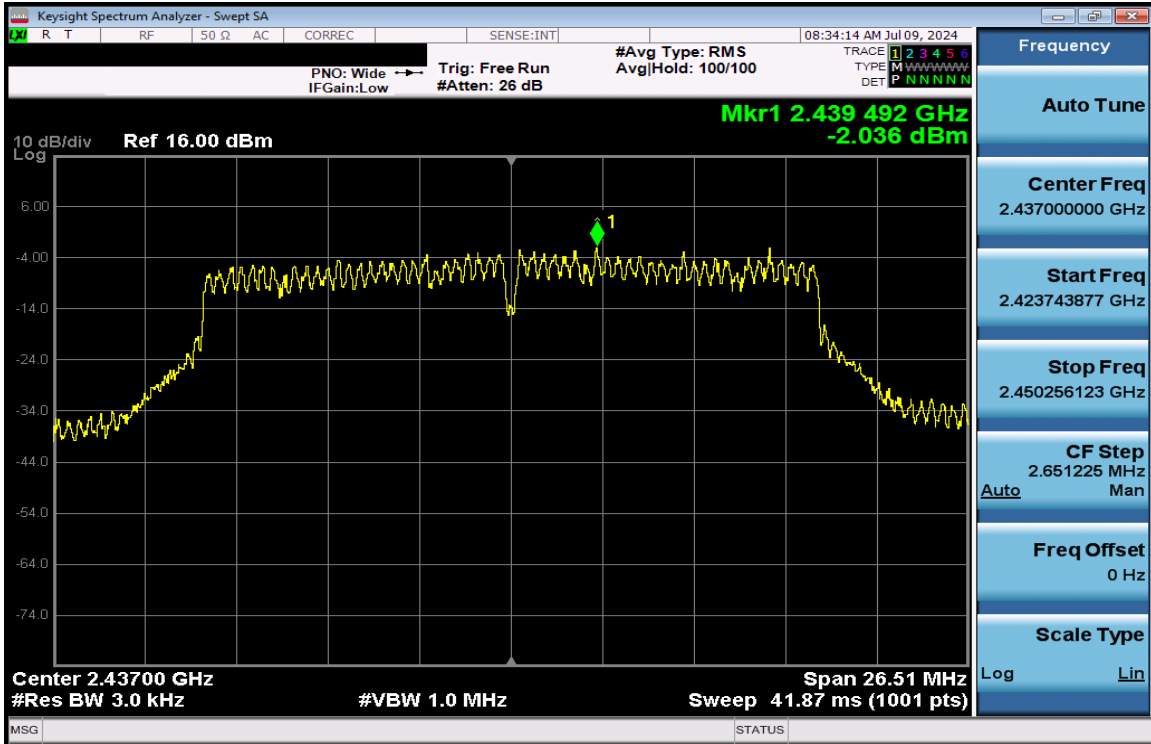


Plot 7-102. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 11) – 24Mbps

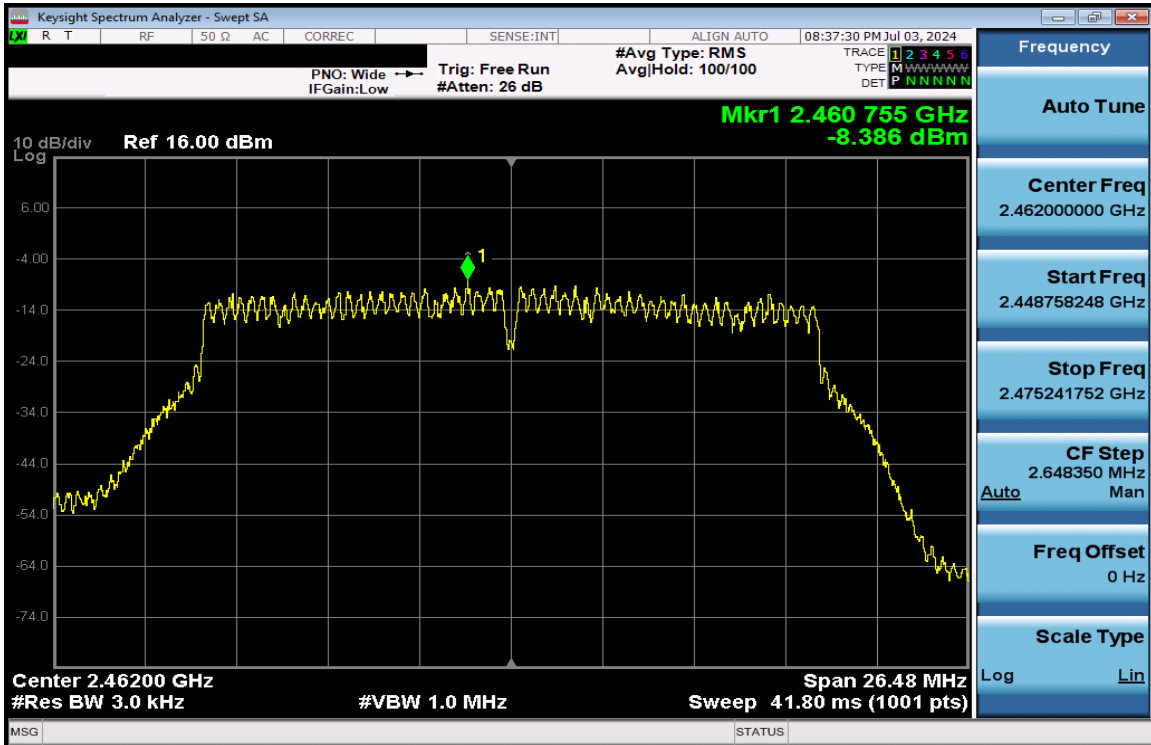


Plot 7-103. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 91 of 430



Plot 7-104. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS4



Plot 7-105. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 92 of 430

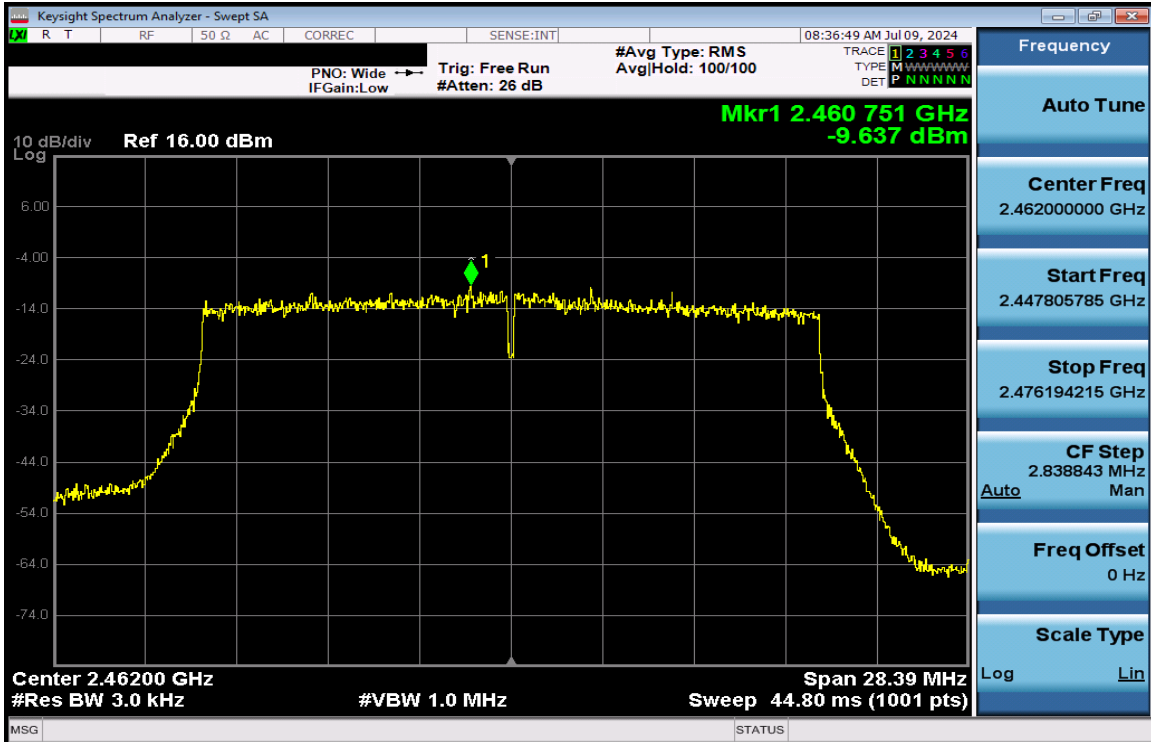


Plot 7-106. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4



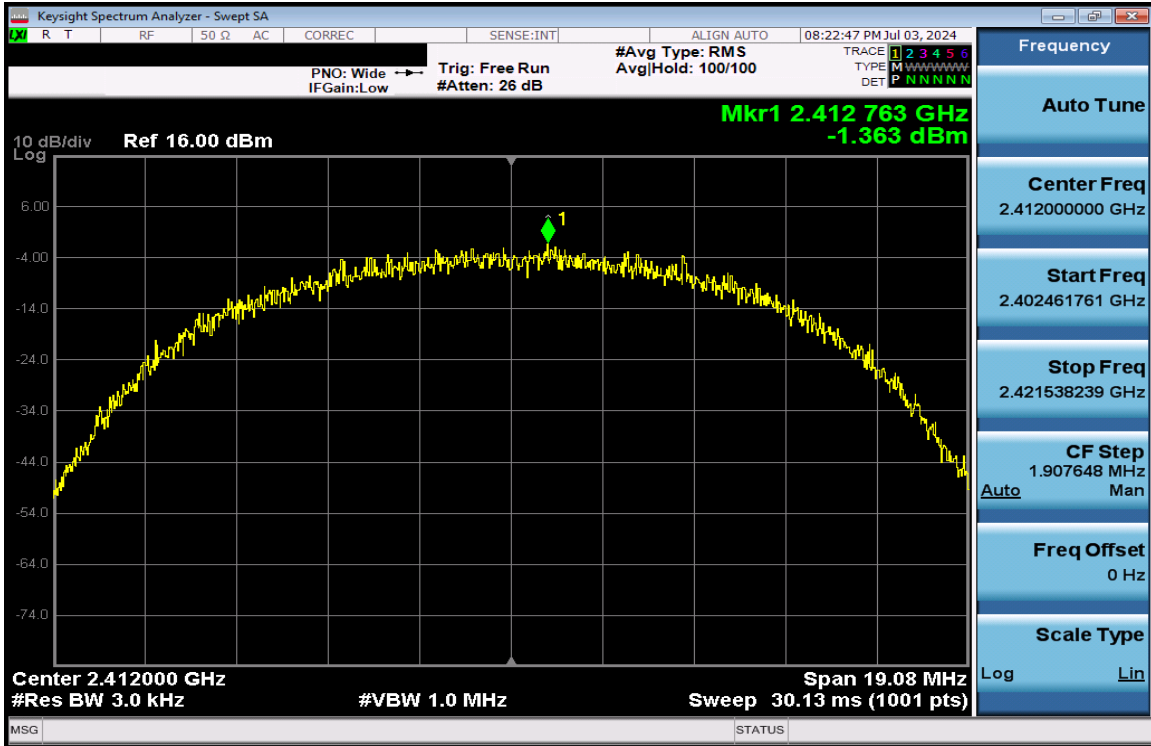
Plot 7-107. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 93 of 430



Plot 7-108. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 94 of 430

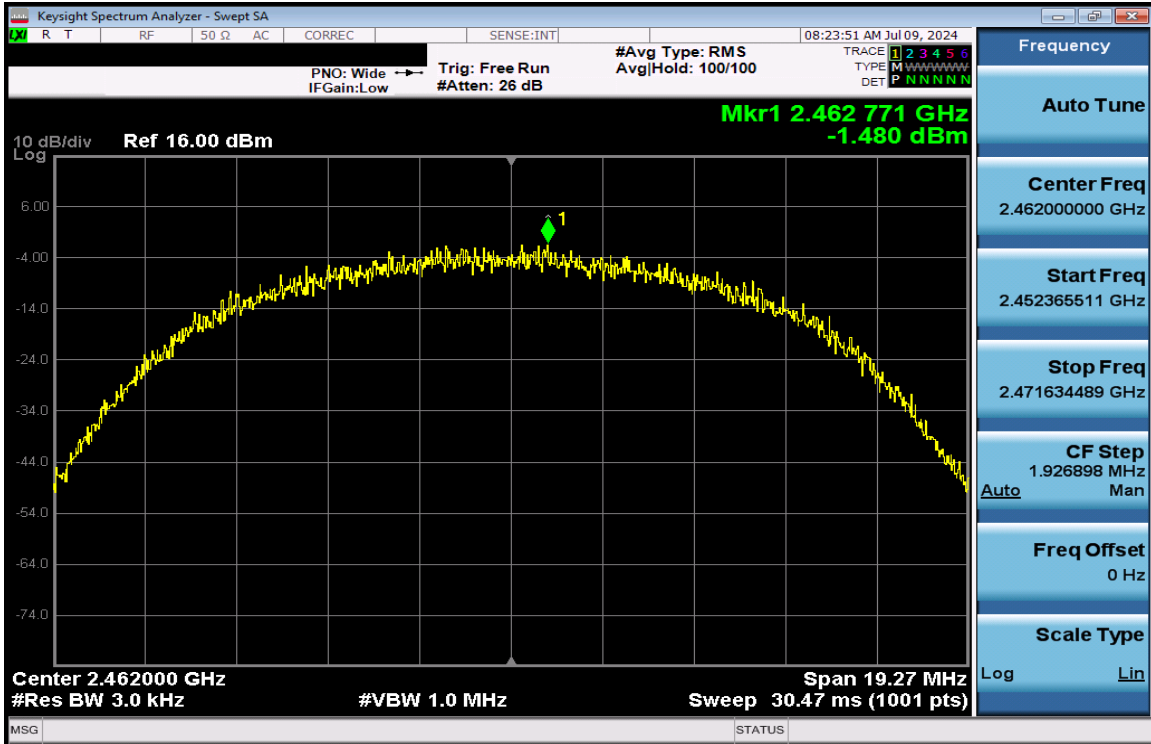


Plot 7-109. Power Spectral Density Plot Antenna 1a (802.11b – Ch. 1) – 11Mbps

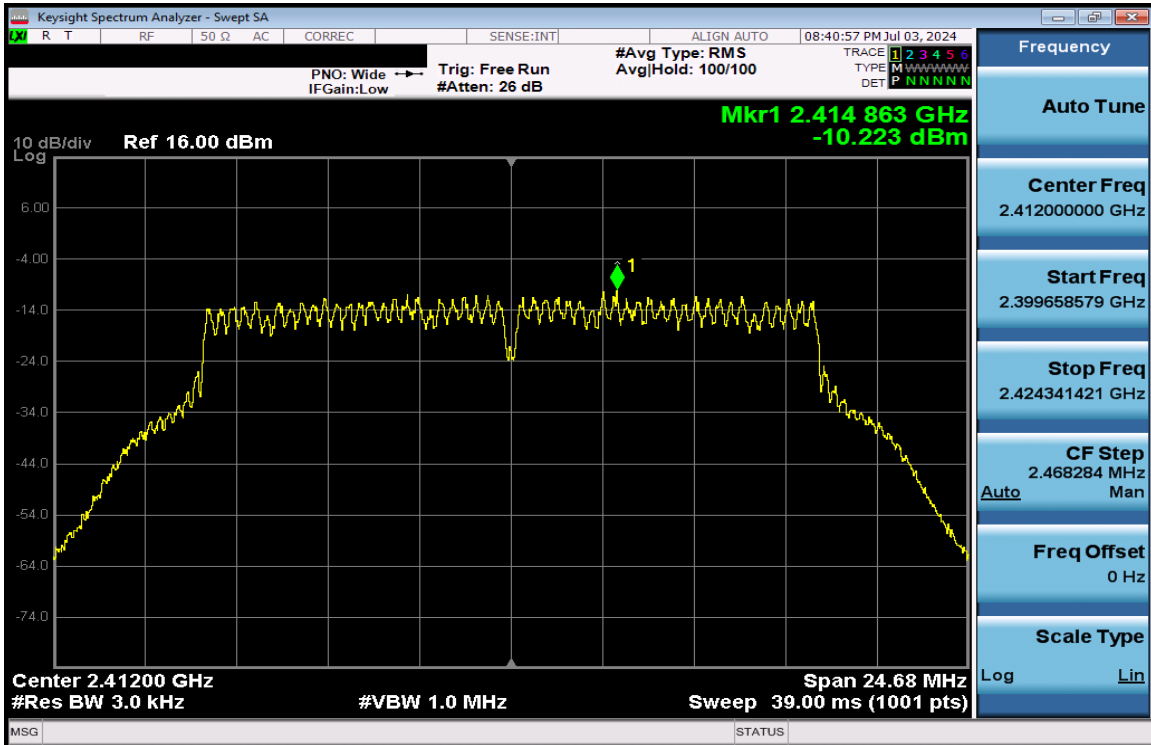


Plot 7-110. Power Spectral Density Plot Antenna 1a (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 95 of 430

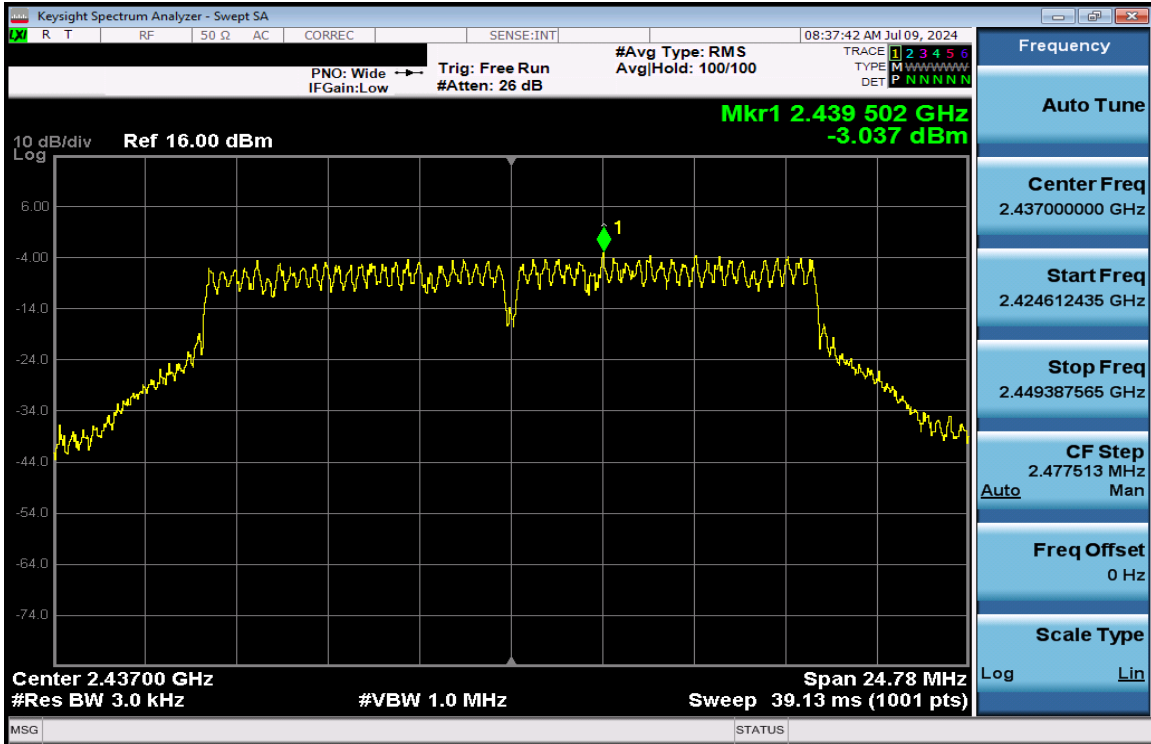


Plot 7-111. Power Spectral Density Plot Antenna 1a (802.11b – Ch. 11) – 11Mbps

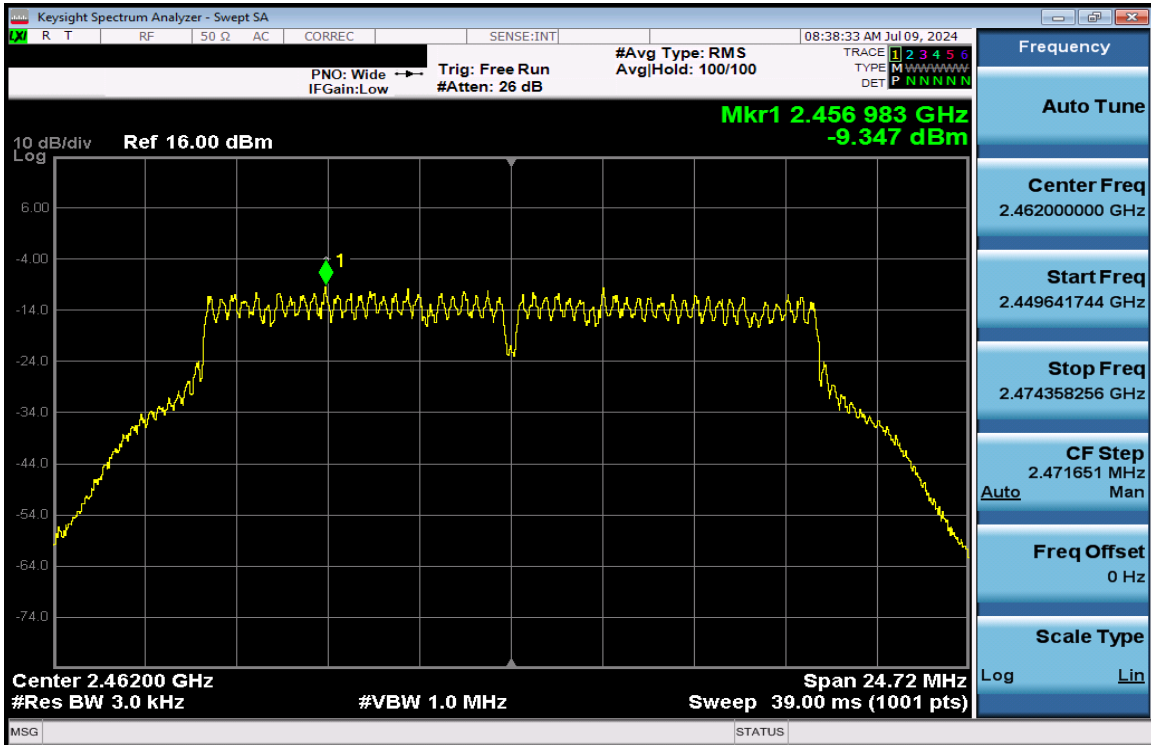


Plot 7-112. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 96 of 430

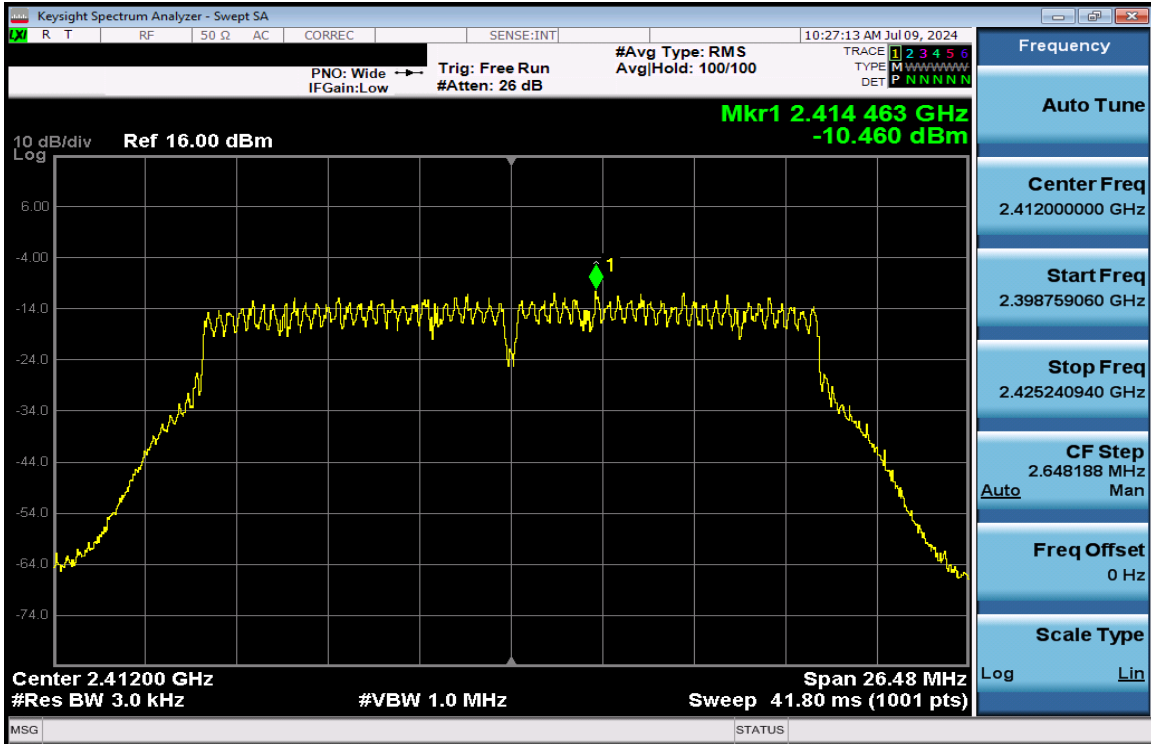


Plot 7-113. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 6) – 54Mbps

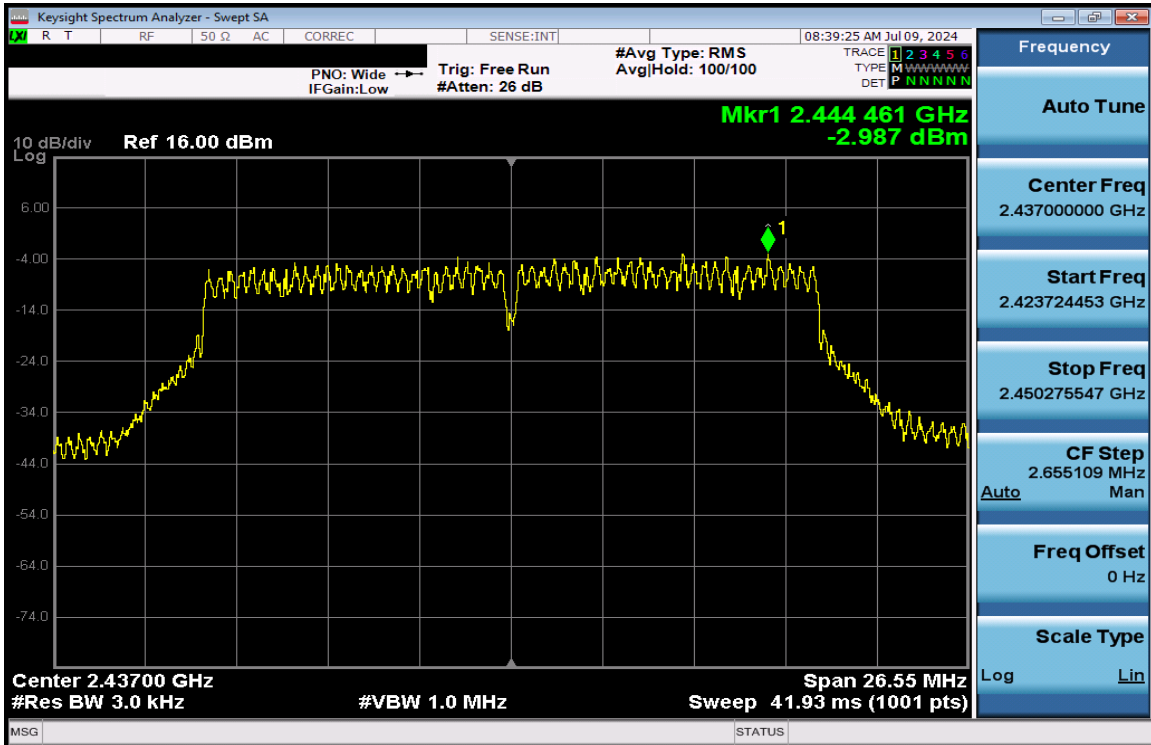


Plot 7-114. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 97 of 430

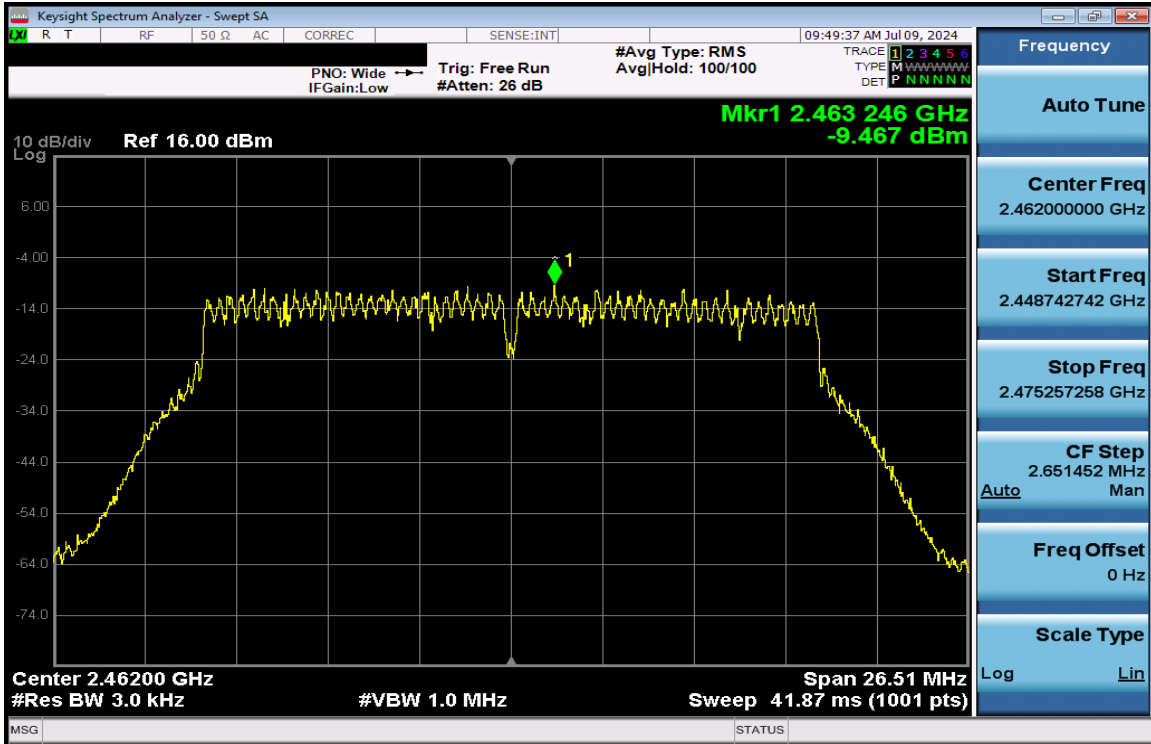


Plot 7-115. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS7

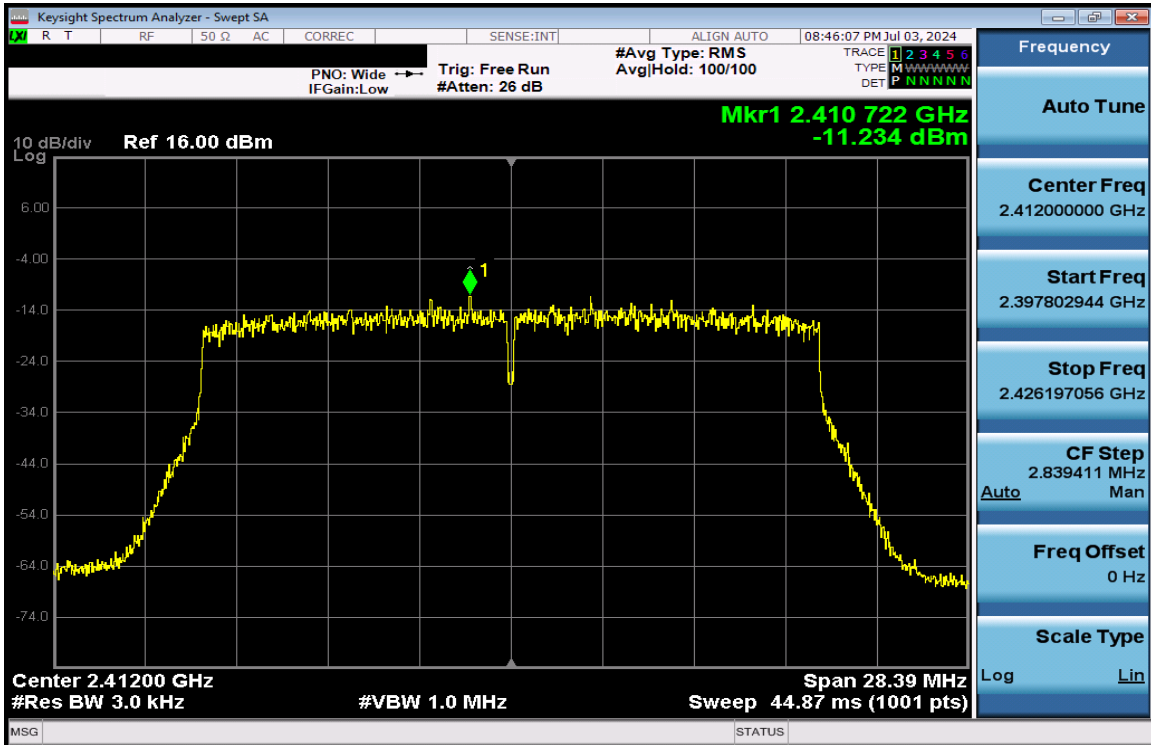


Plot 7-116. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS7

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 98 of 430

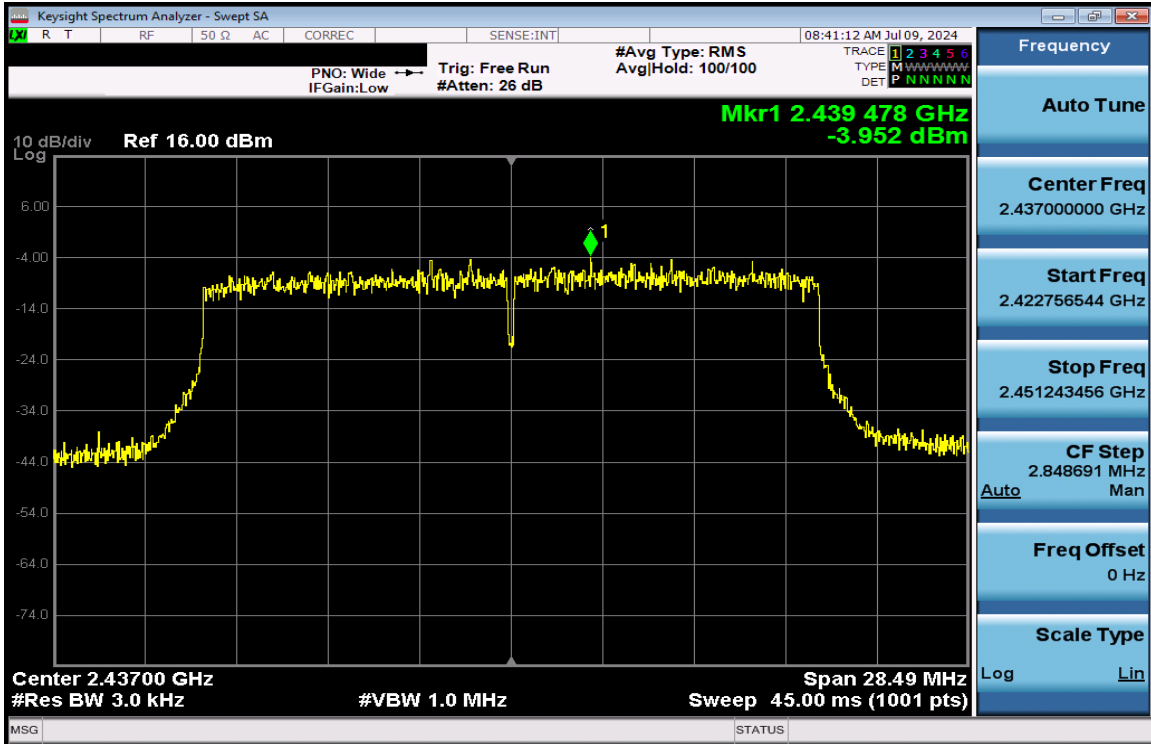


Plot 7-117. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS7

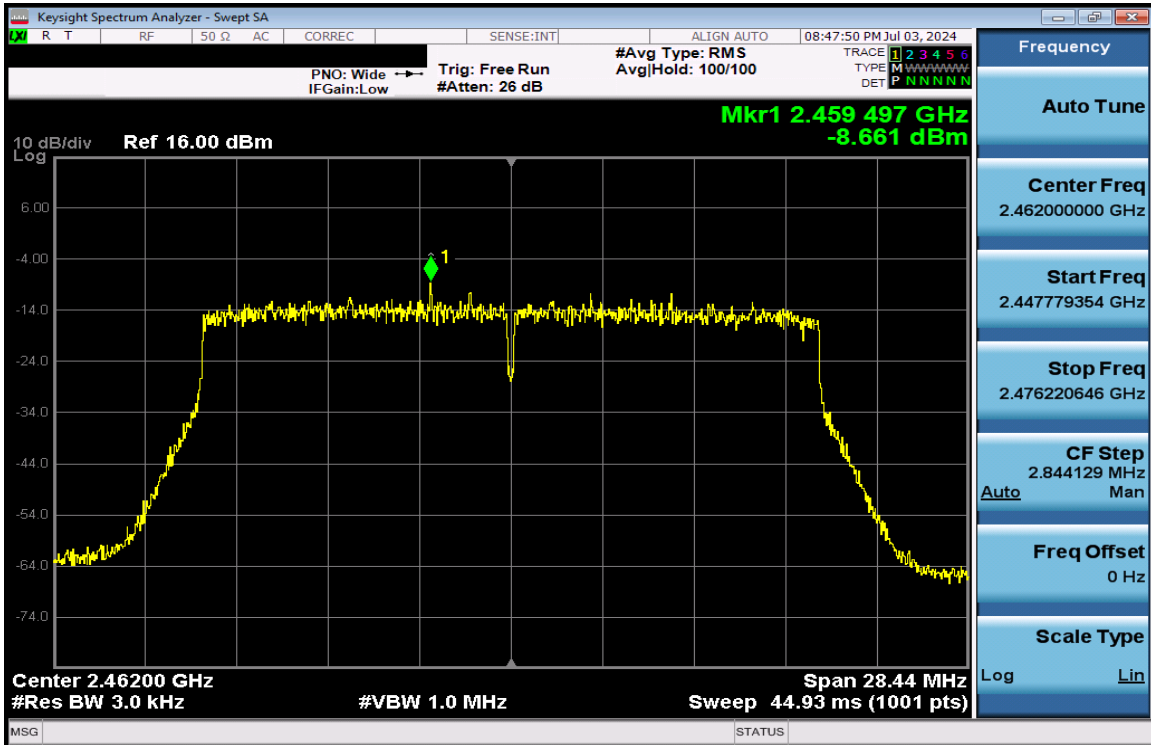


Plot 7-118. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 99 of 430



Plot 7-119. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9



Plot 7-120. Power Spectral Density Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 100 of 430

7.4.3 CDD Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna 3a Power Density [dBm/3kHz]	Antenna 1a Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	12	-9.30	-9.69	-6.48	8.00	-14.48	Pass
2437	6	g	CDD	12	-1.30	-2.30	1.24	8.00	-6.76	Pass
2462	11	g	CDD	12	-7.02	-7.69	-4.33	8.00	-12.33	Pass
2412	1	n	CDD	39/43.3 (MCS10)	-10.29	-10.08	-7.17	8.00	-15.17	Pass
2437	6	n	CDD	39/43.3 (MCS10)	-2.81	-2.34	0.44	8.00	-7.56	Pass
2462	11	n	CDD	39/43.3 (MCS10)	-8.06	-7.97	-5.01	8.00	-13.01	Pass
2412	1	ax (SU)	CDD	48/51.6 (MCS2)	-11.25	-11.00	-8.11	8.00	-16.11	Pass
2437	6	ax (SU)	CDD	48/51.6 (MCS2)	-4.31	-4.16	-1.22	8.00	-9.22	Pass
2462	11	ax (SU)	CDD	48/51.6 (MCS2)	-10.23	-10.23	-7.22	8.00	-15.22	Pass

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

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna 3a Power Density [dBm/3kHz]	Antenna 1a Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	24	-9.32	-10.25	-6.75	8.00	-14.75	Pass
2437	6	g	CDD	24	-1.99	-1.82	1.10	8.00	-6.90	Pass
2462	11	g	CDD	24	-8.06	-8.39	-5.21	8.00	-13.21	Pass
2412	1	n	CDD	78/86.7 (MCS12)	-9.41	-10.35	-6.85	8.00	-14.85	Pass
2437	6	n	CDD	78/86.7 (MCS12)	-1.95	-2.75	0.68	8.00	-7.32	Pass
2462	11	n	CDD	78/86.7 (MCS12)	-8.66	-8.78	-5.71	8.00	-13.71	Pass
2412	1	ax (SU)	CDD	98/103.2 (MCS4)	-11.40	-11.33	-8.36	8.00	-16.36	Pass
2437	6	ax (SU)	CDD	98/103.2 (MCS4)	-3.91	-3.17	-0.51	8.00	-8.51	Pass
2462	11	ax (SU)	CDD	98/103.2 (MCS4)	-9.81	-10.13	-6.96	8.00	-14.96	Pass

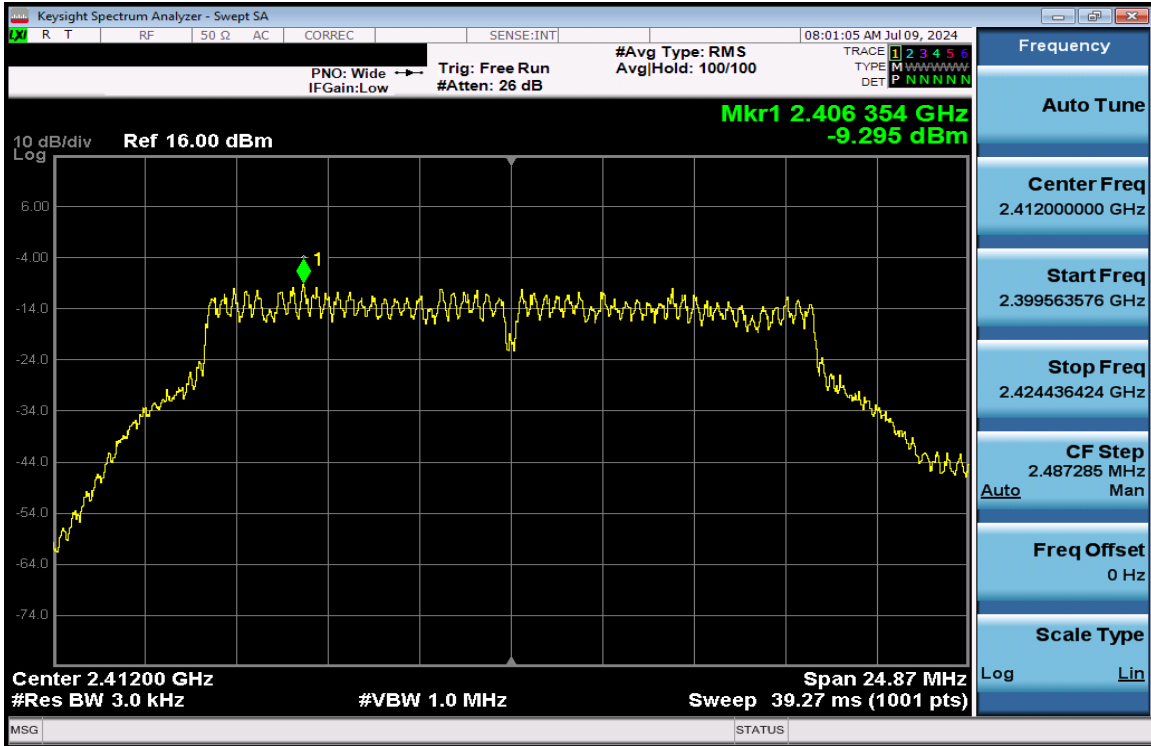
Table 7-45.CDD Conducted Power Density Measurements (Mid Data Rate)

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna 3a Power Density [dBm/3kHz]	Antenna 1a Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	54	-10.09	-10.44	-7.25	8.00	-15.25	Pass
2437	6	g	CDD	54	-3.08	-3.53	-0.29	8.00	-8.29	Pass
2462	11	g	CDD	54	-9.58	-10.23	-6.88	8.00	-14.88	Pass
2412	1	n	CDD	130/144.4 (MCS15)	-10.18	-9.83	-6.99	8.00	-14.99	Pass
2437	6	n	CDD	130/144.4 (MCS15)	-3.61	-2.25	0.13	8.00	-7.87	Pass
2462	11	n	CDD	130/144.4 (MCS15)	-9.23	-9.06	-6.13	8.00	-14.13	Pass
2412	1	ax (SU)	CDD	216/229.4 (MCS9)	-10.71	-11.12	-7.90	8.00	-15.90	Pass
2437	6	ax (SU)	CDD	216/229.4 (MCS9)	-3.80	-3.43	-0.60	8.00	-8.60	Pass
2462	11	ax (SU)	CDD	216/229.4 (MCS9)	-10.06	-9.93	-6.98	8.00	-14.98	Pass

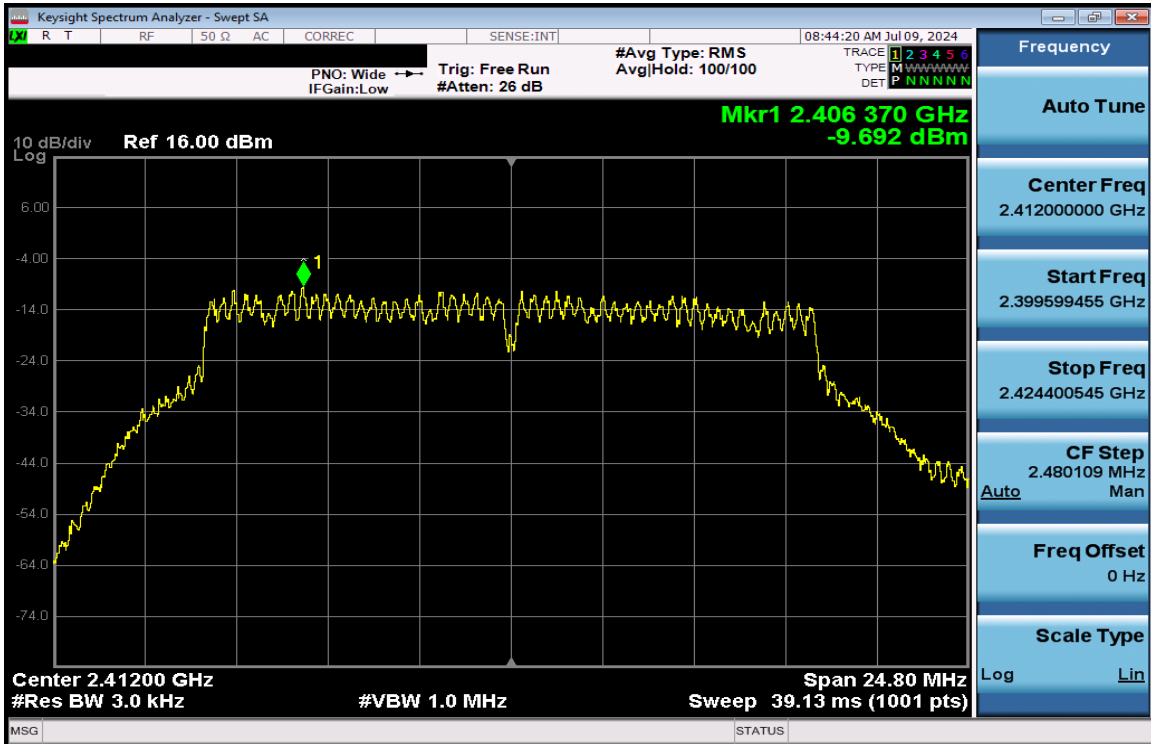
Table 7-46.CDD Conducted Power Density Measurements (High Data Rate)

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 101 of 430

Low Rate

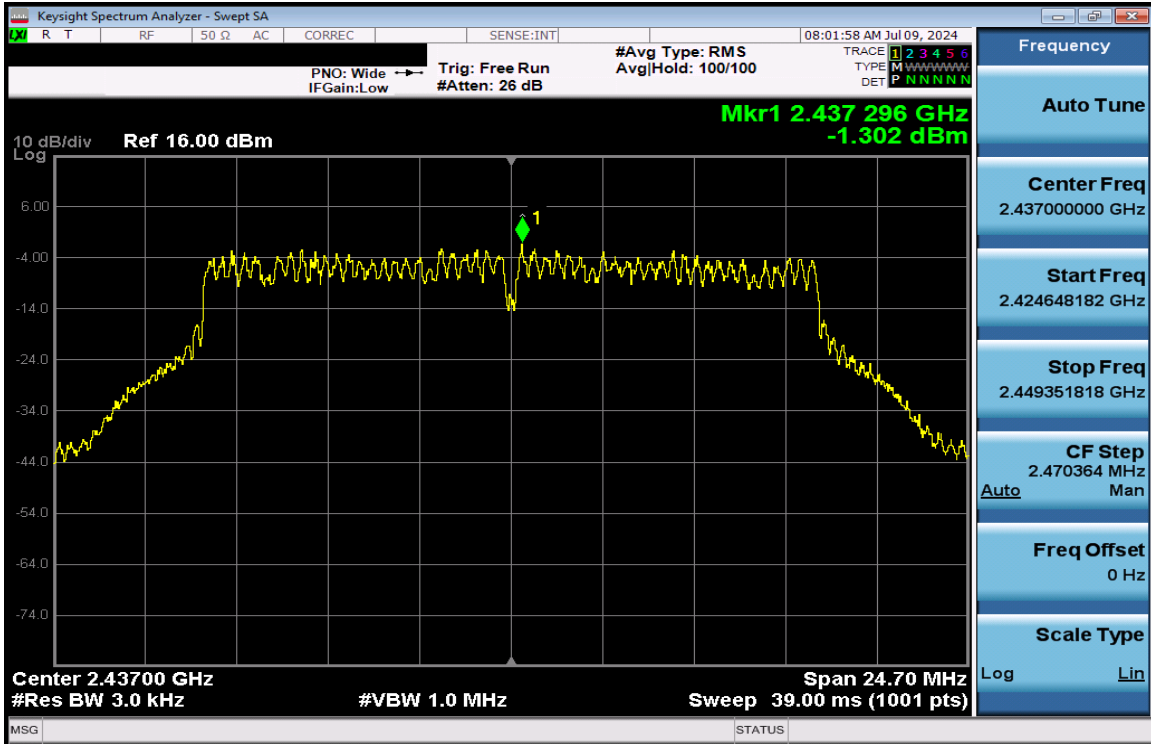


Plot 7-121. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 1) – 12Mbps

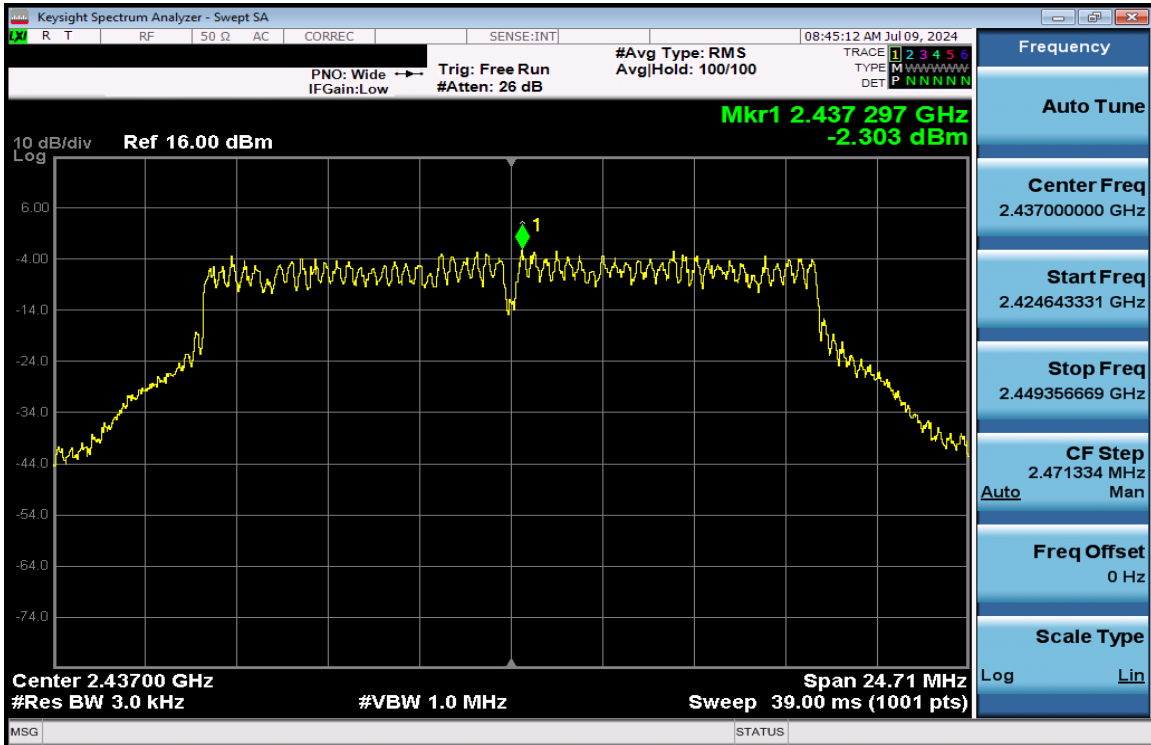


Plot 7-122. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 1) – 12Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 102 of 430

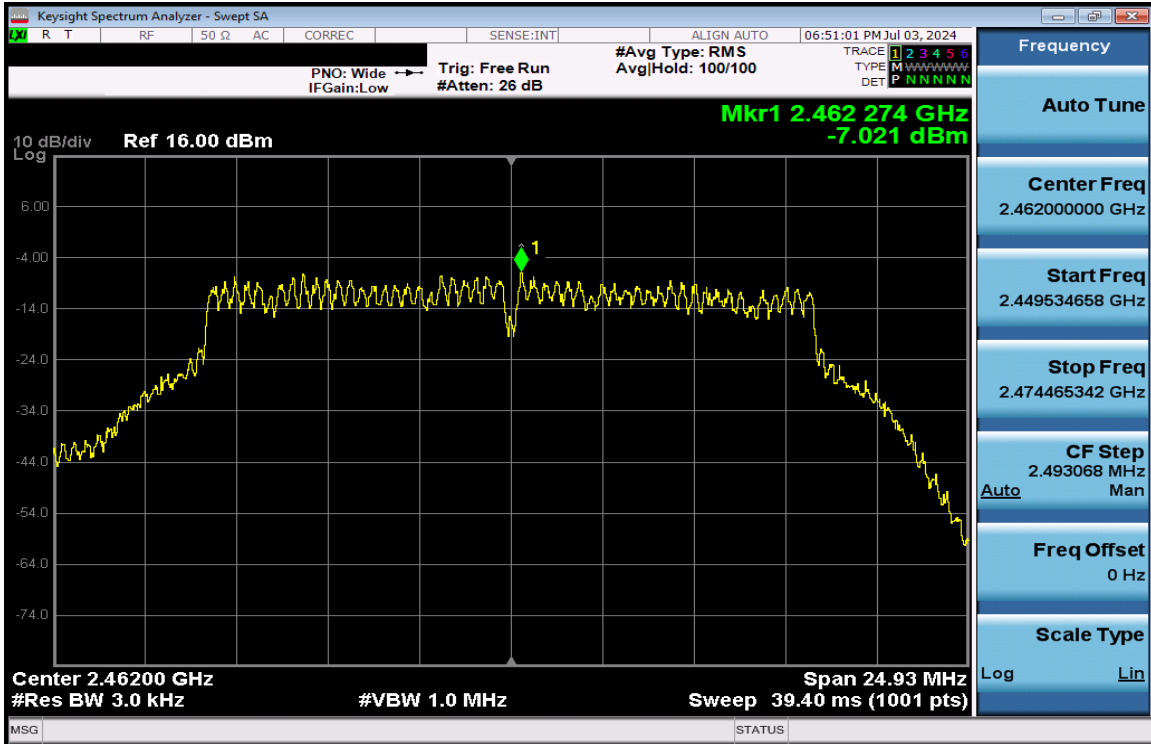


Plot 7-123. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 6) – 12Mbps

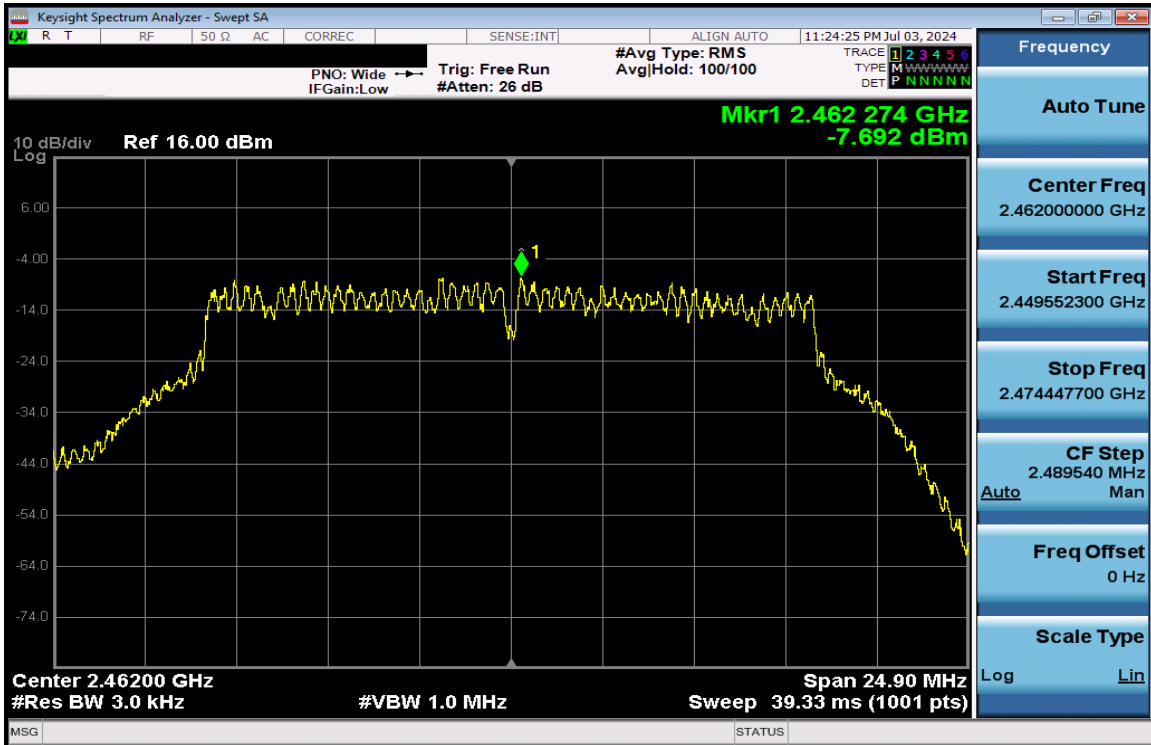


Plot 7-124. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 103 of 430

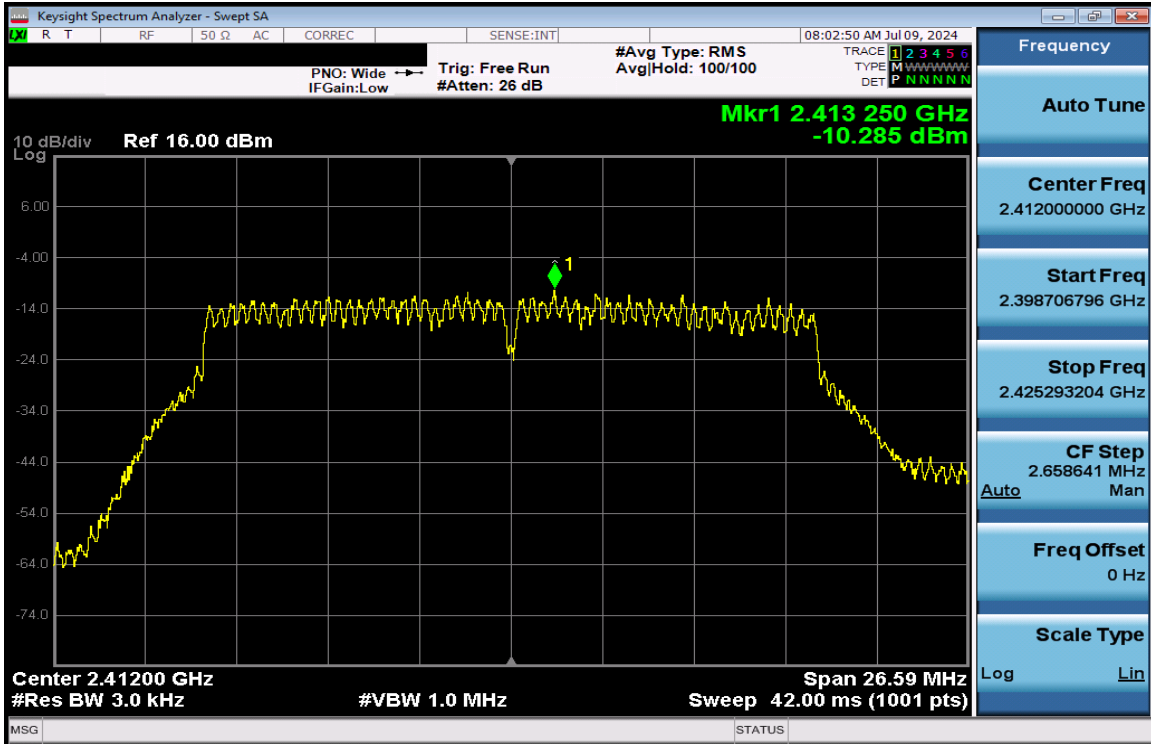


Plot 7-125. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 11) – 12Mbps

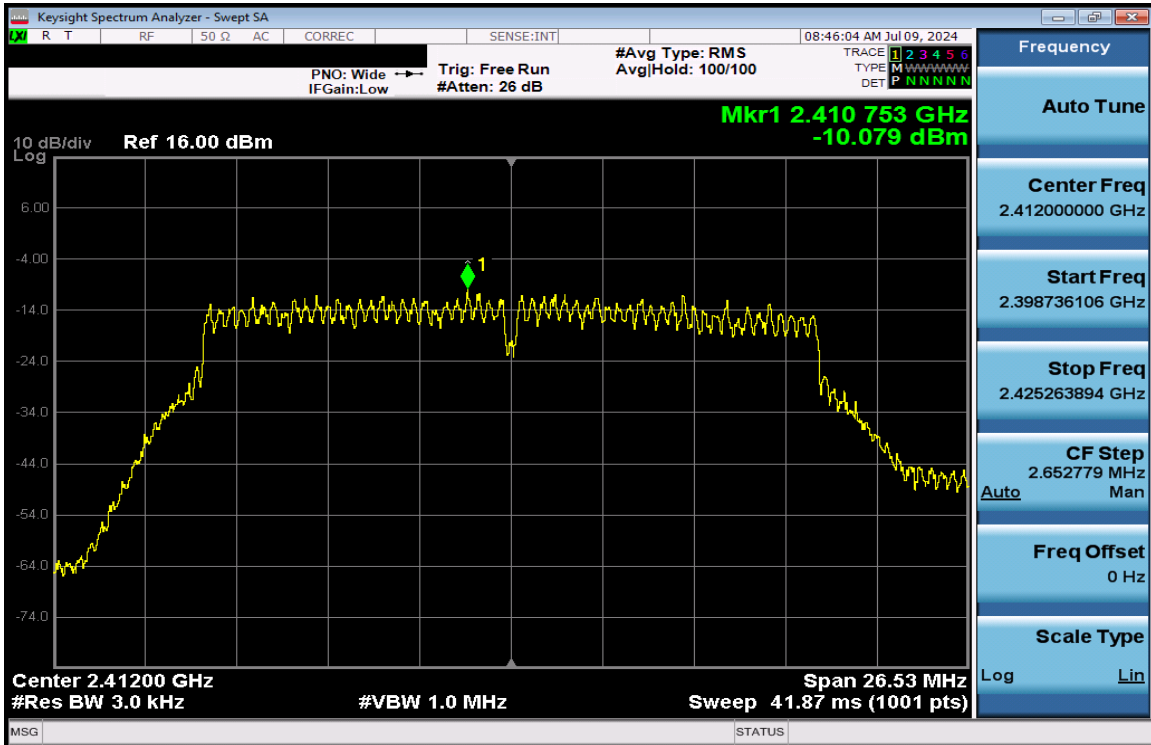


Plot 7-126. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 11) – 12Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 104 of 430

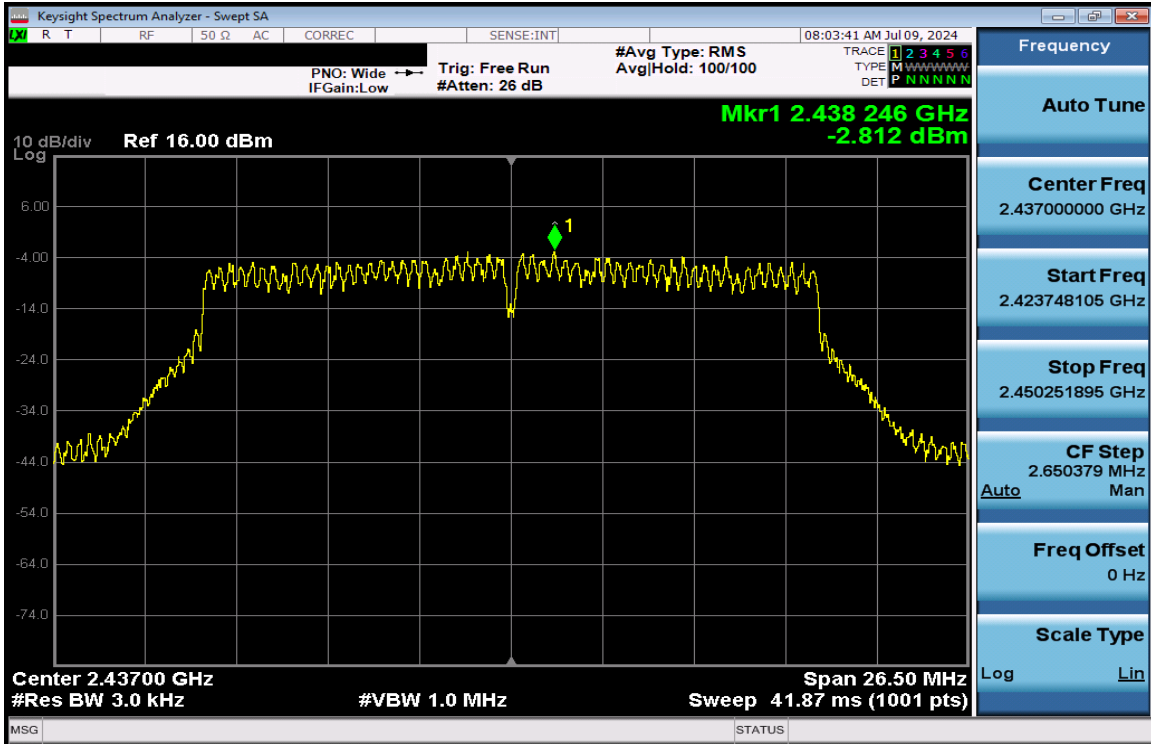


Plot 7-127. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS10

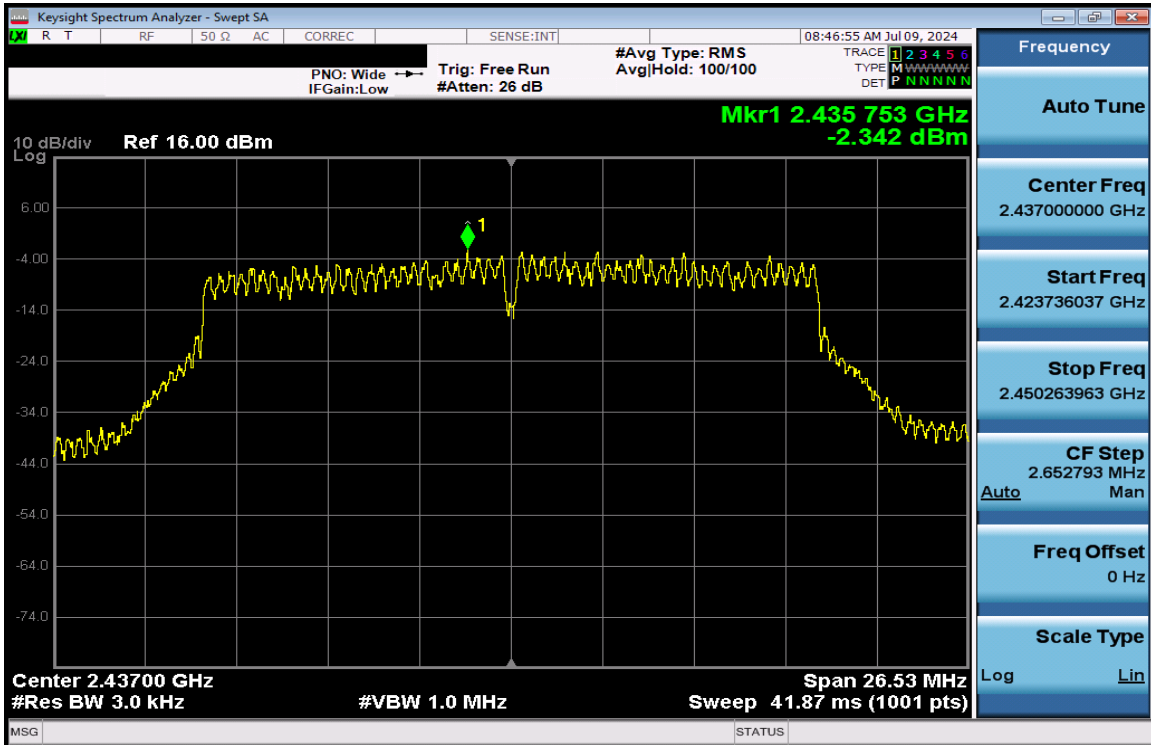


Plot 7-128. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS10

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 105 of 430

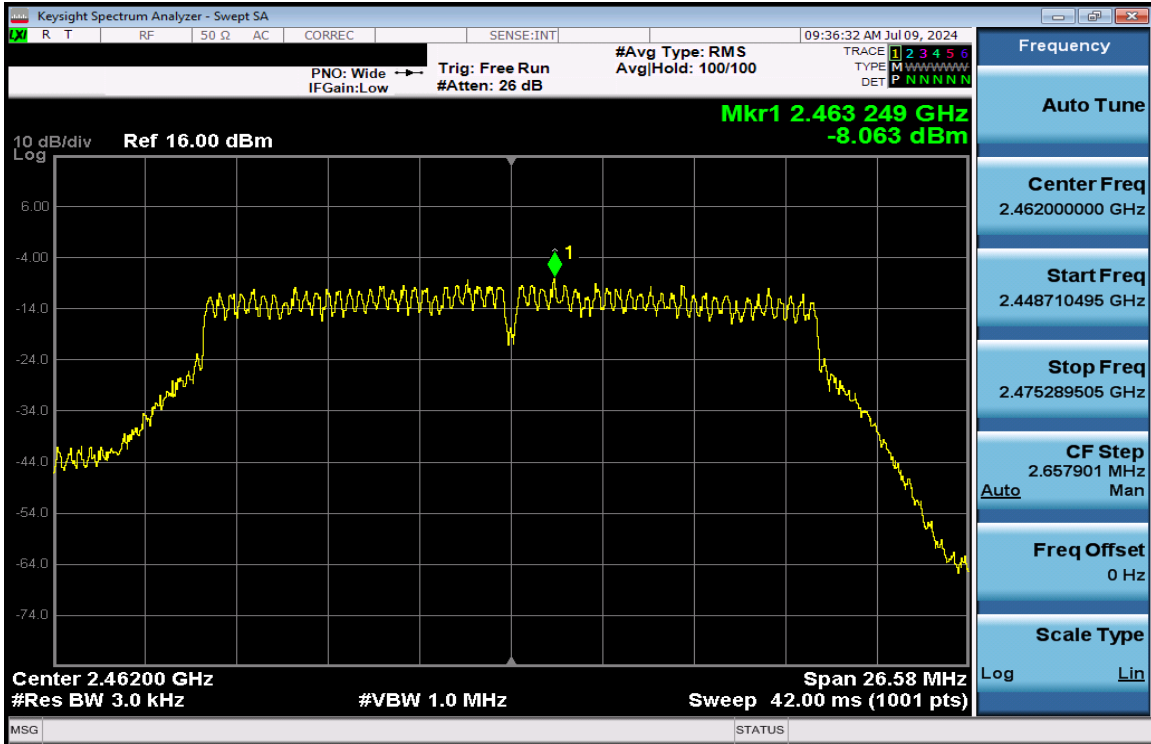


Plot 7-129. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS10

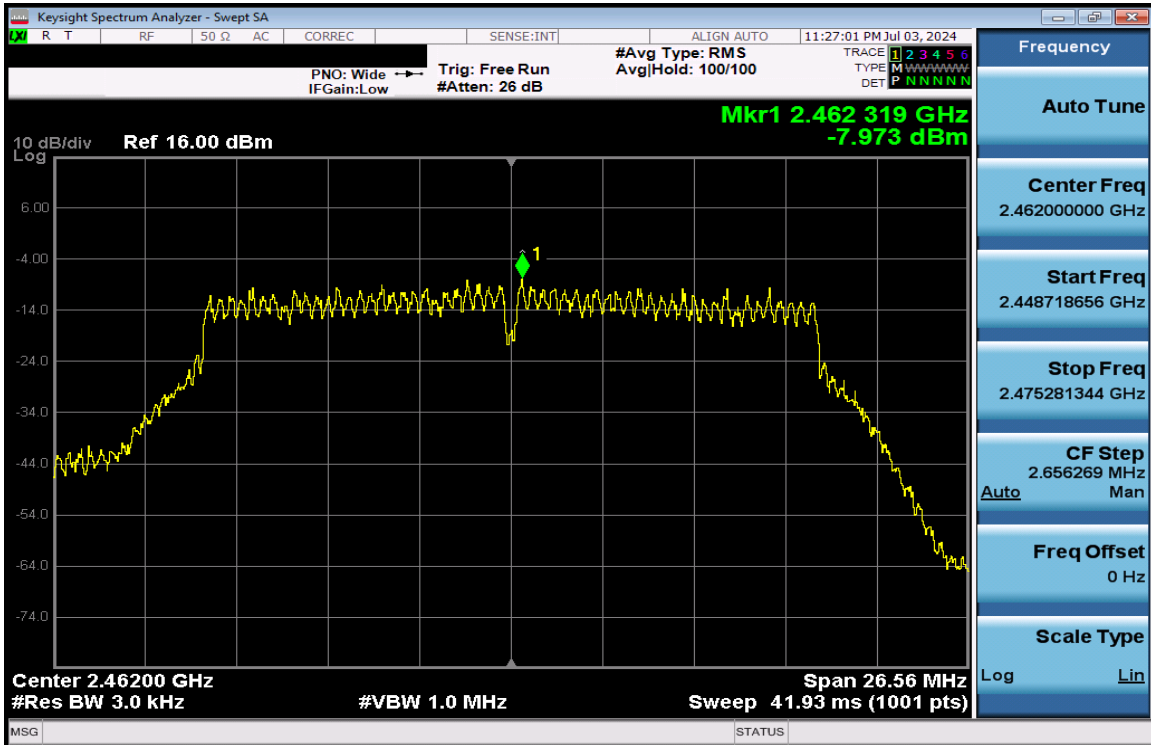


Plot 7-130. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS10

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 106 of 430

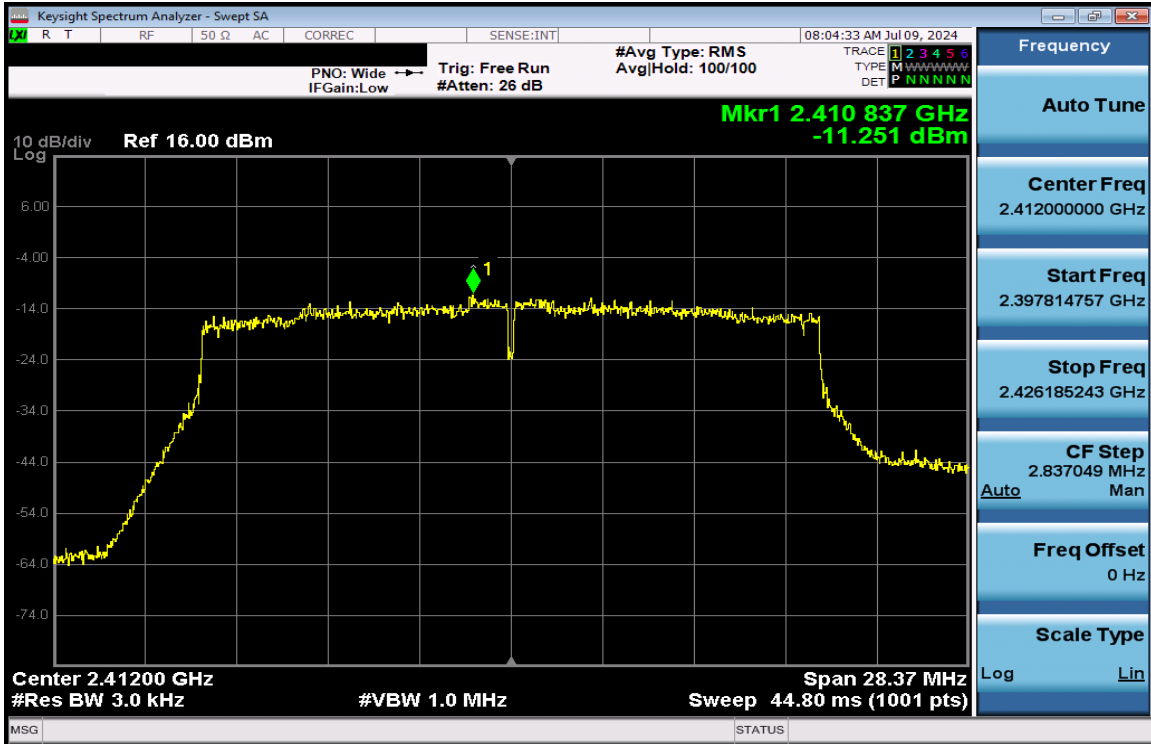


Plot 7-131. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS10



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

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 107 of 430

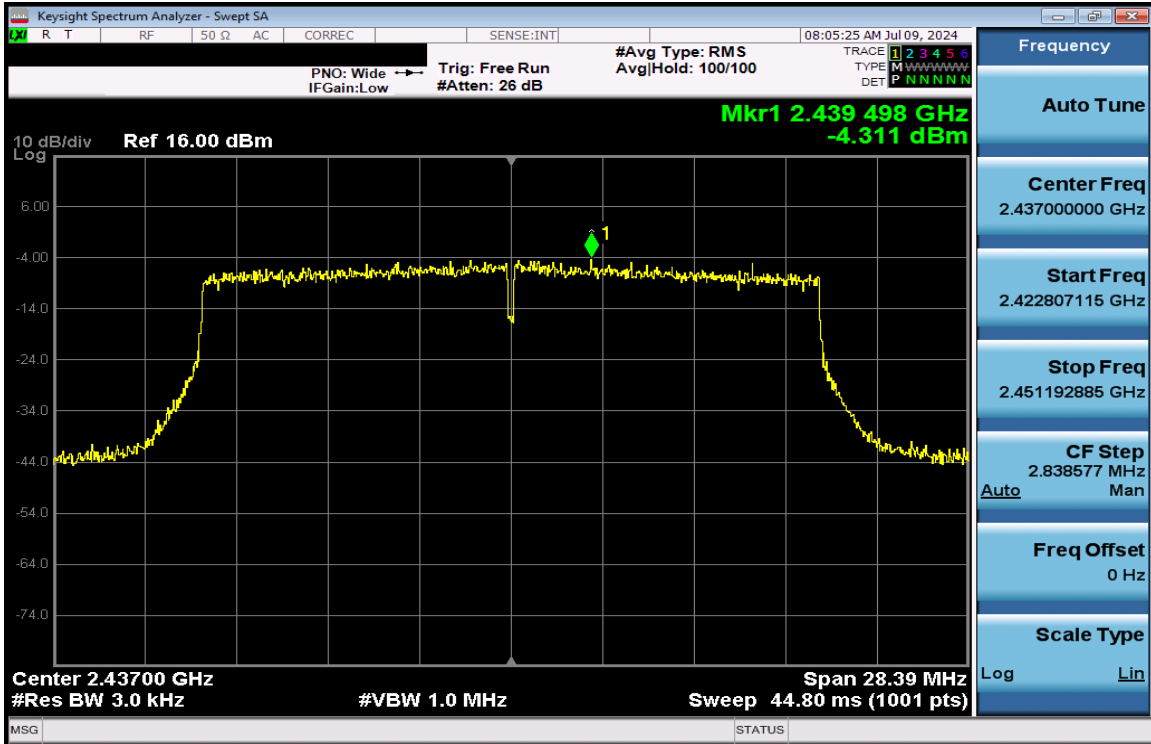


Plot 7-133. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2

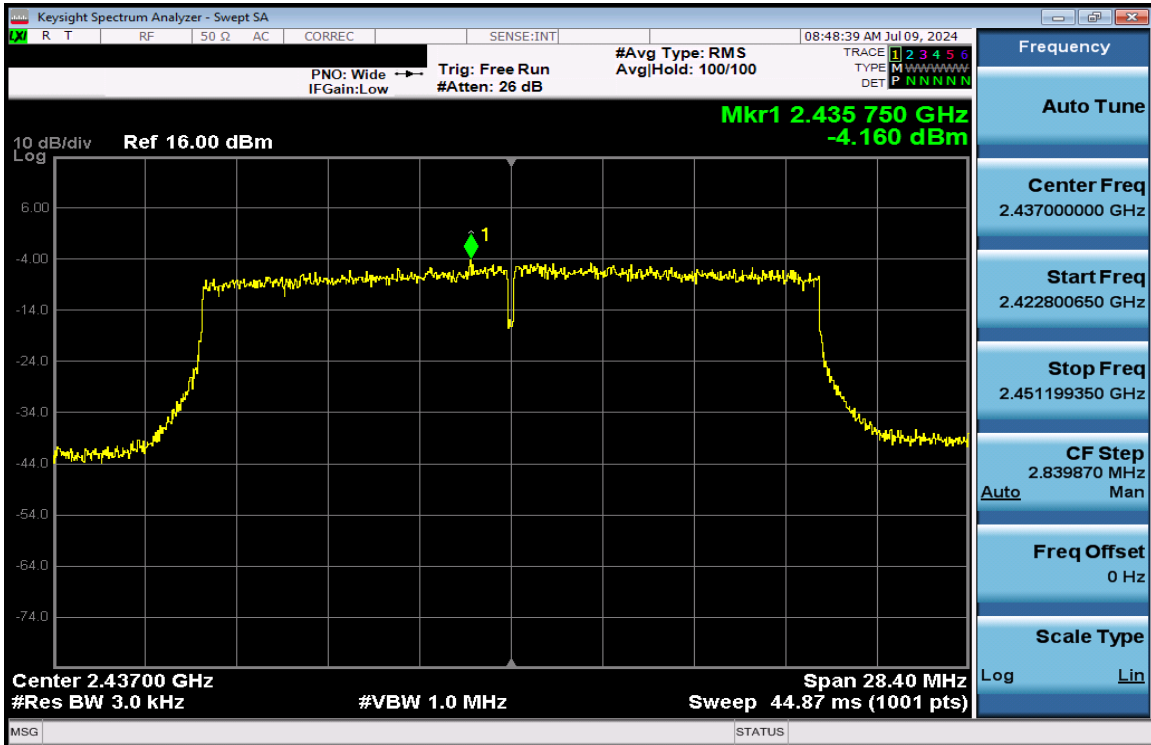


Plot 7-134. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 108 of 430



Plot 7-135. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

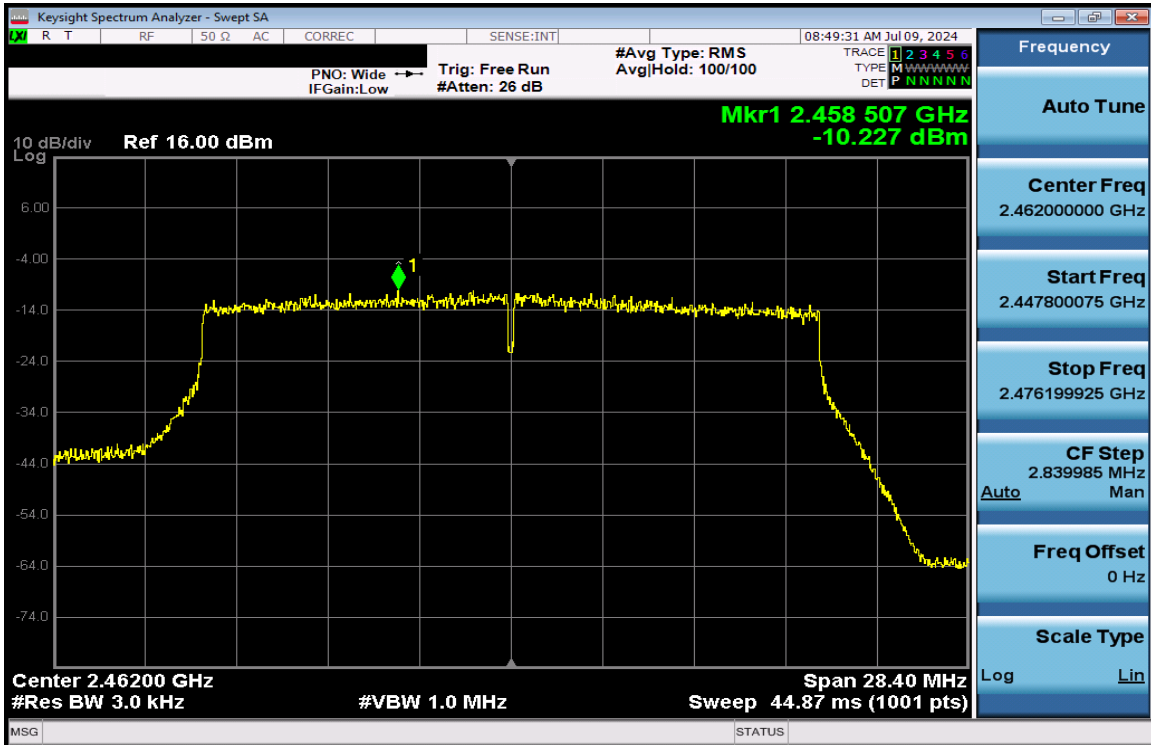


Plot 7-136. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 109 of 430



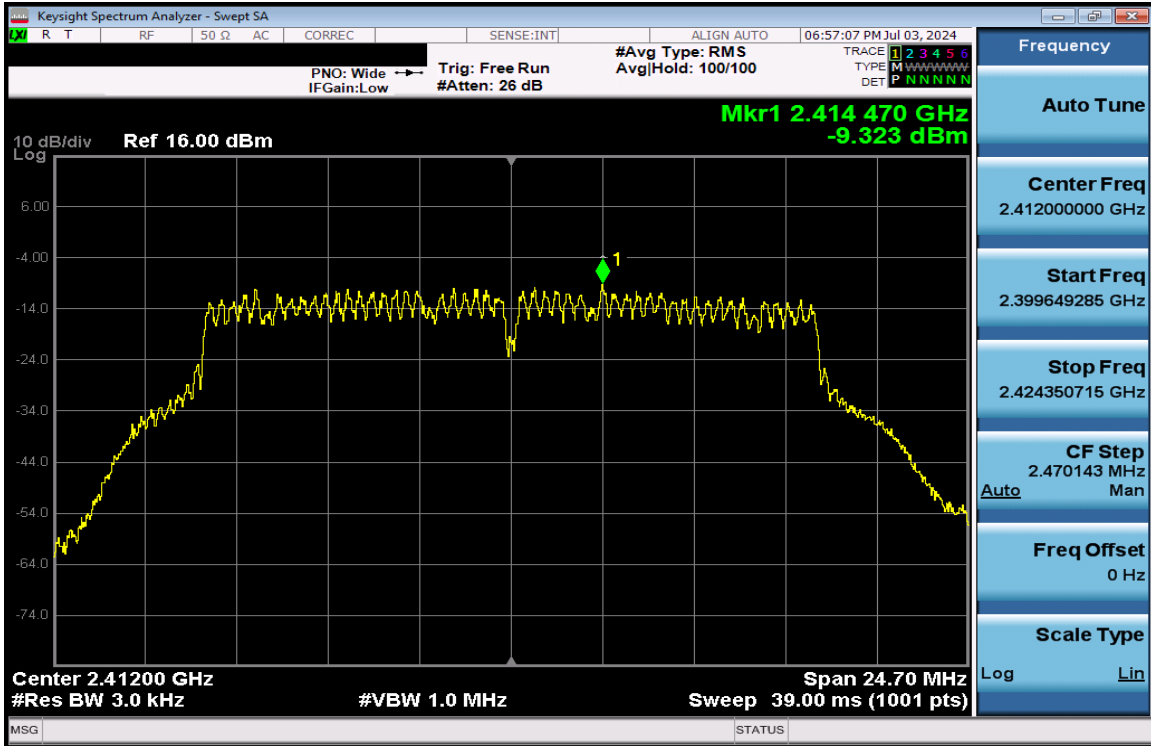
Plot 7-137. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2



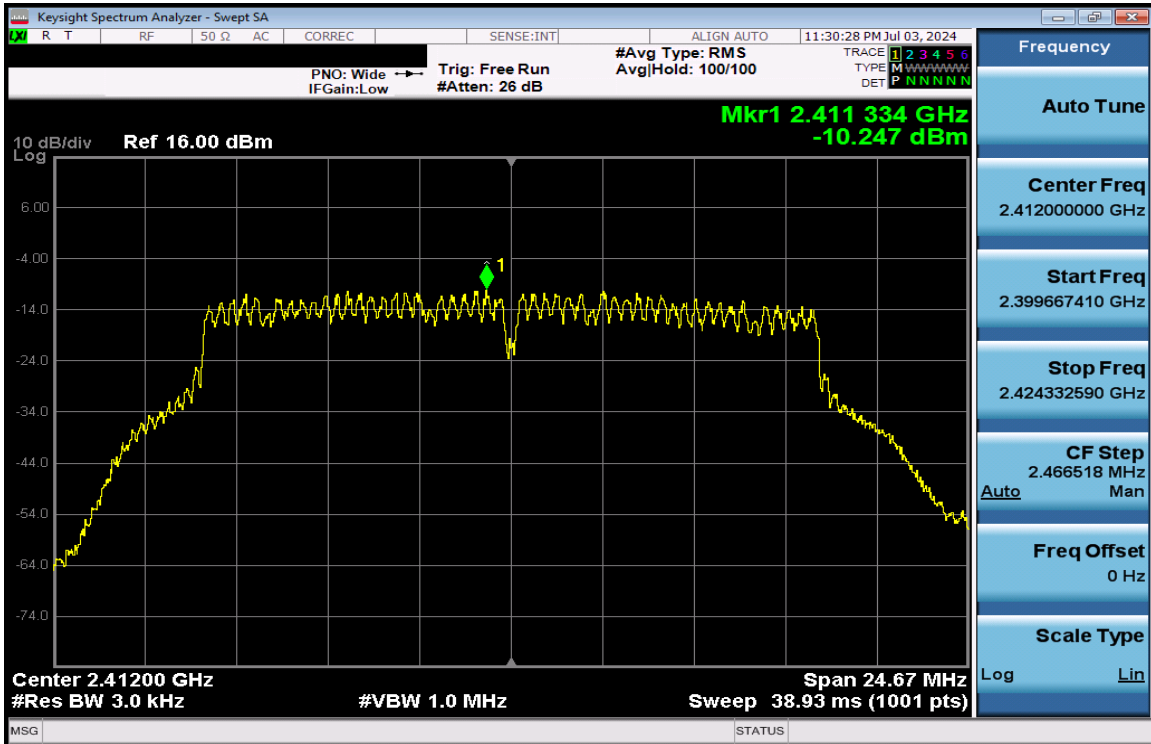
Plot 7-138. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 110 of 430

Mid Rate

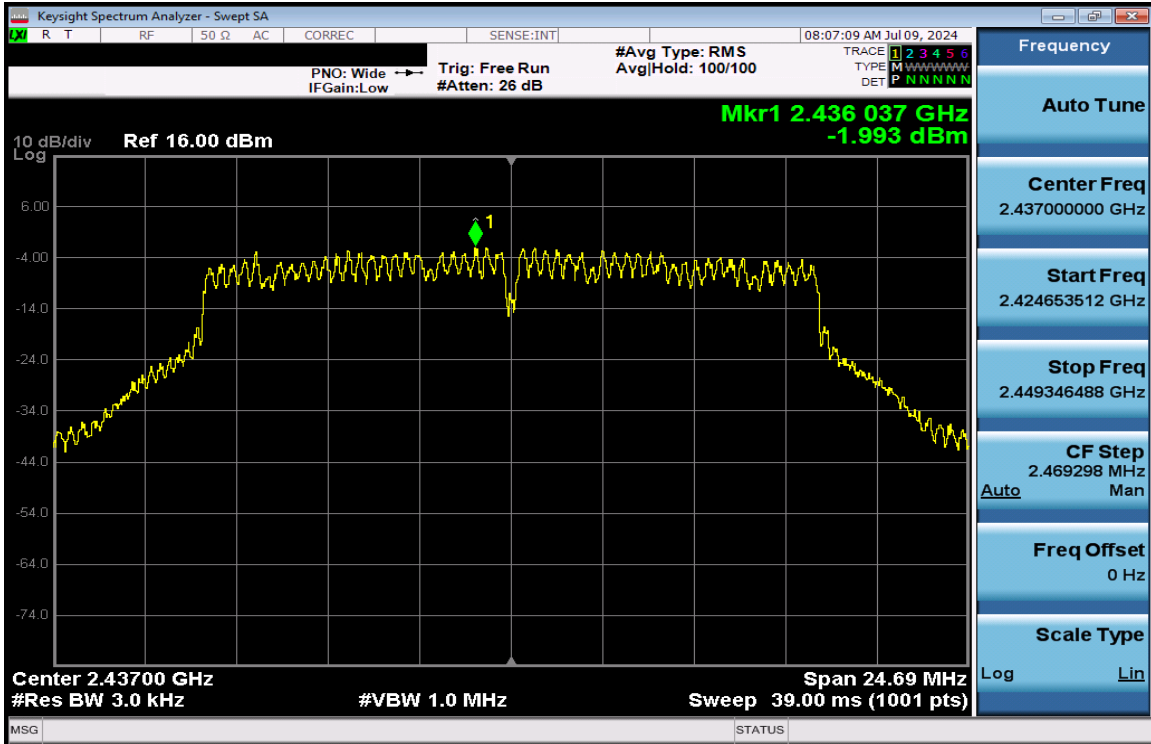


Plot 7-139. Power Spectral Density Plot CDD Antenna 3a (802.11g– Ch. 1) – 24Mbps

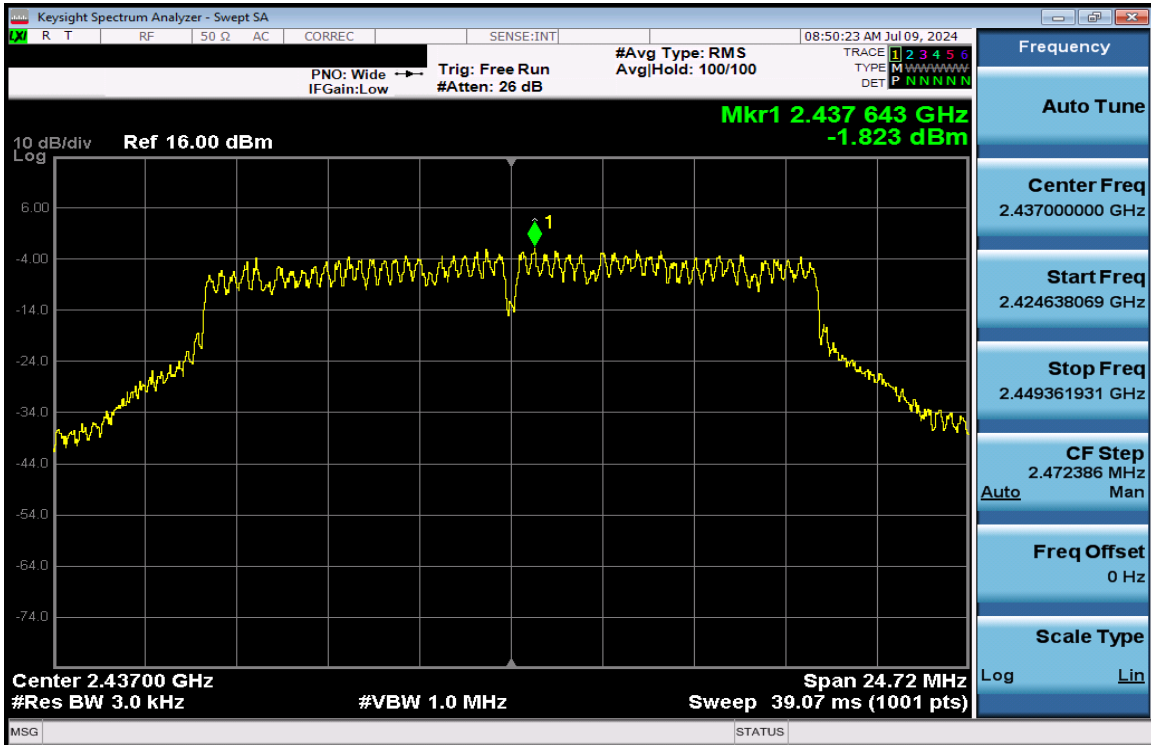


Plot 7-140. Power Spectral Density Plot CDD Antenna 1a (802.11g– Ch. 1) – 24Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 111 of 430

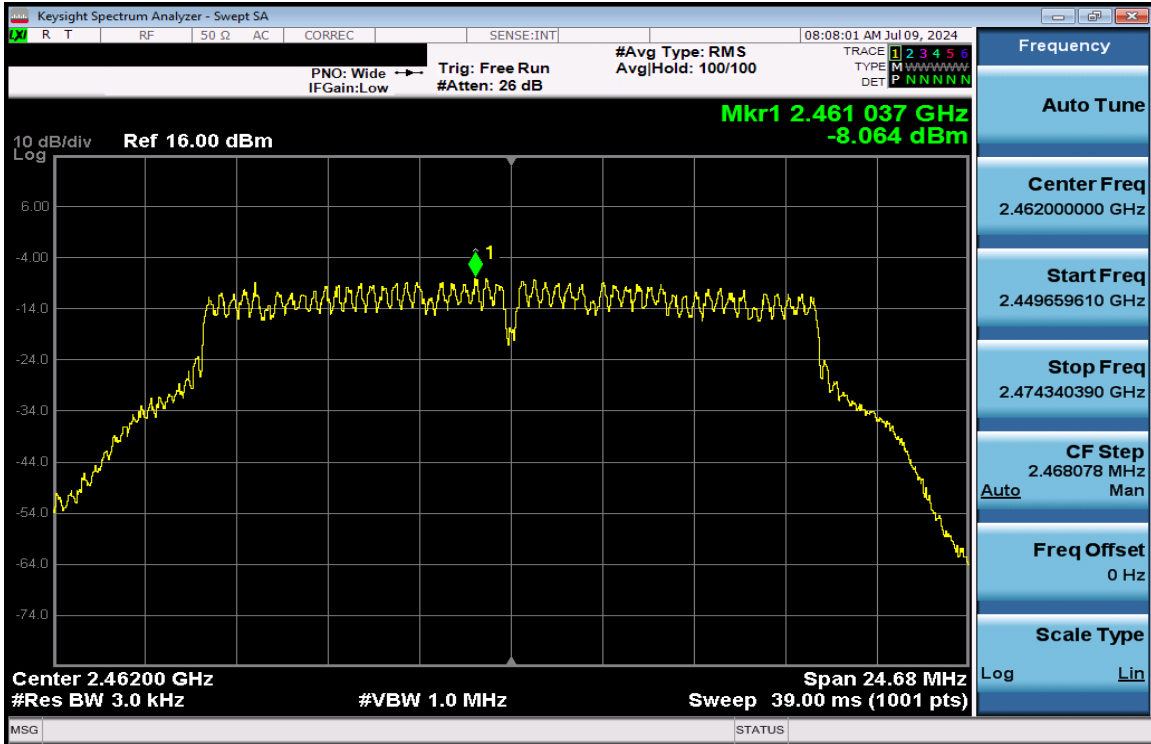


Plot 7-141. Power Spectral Density Plot CDD Antenna 3a (802.11g– Ch. 6) – 24Mbps



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

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 112 of 430

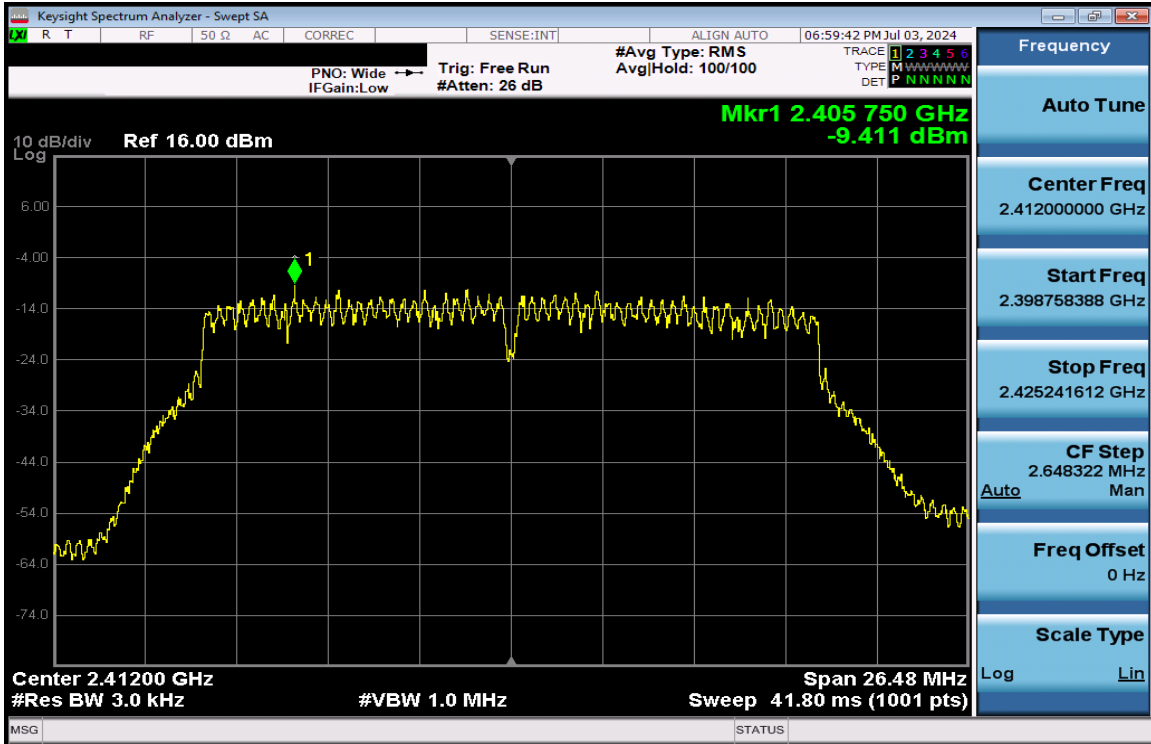


Plot 7-143. Power Spectral Density Plot CDD Antenna 3a (802.11g– Ch. 11) – 24Mbps

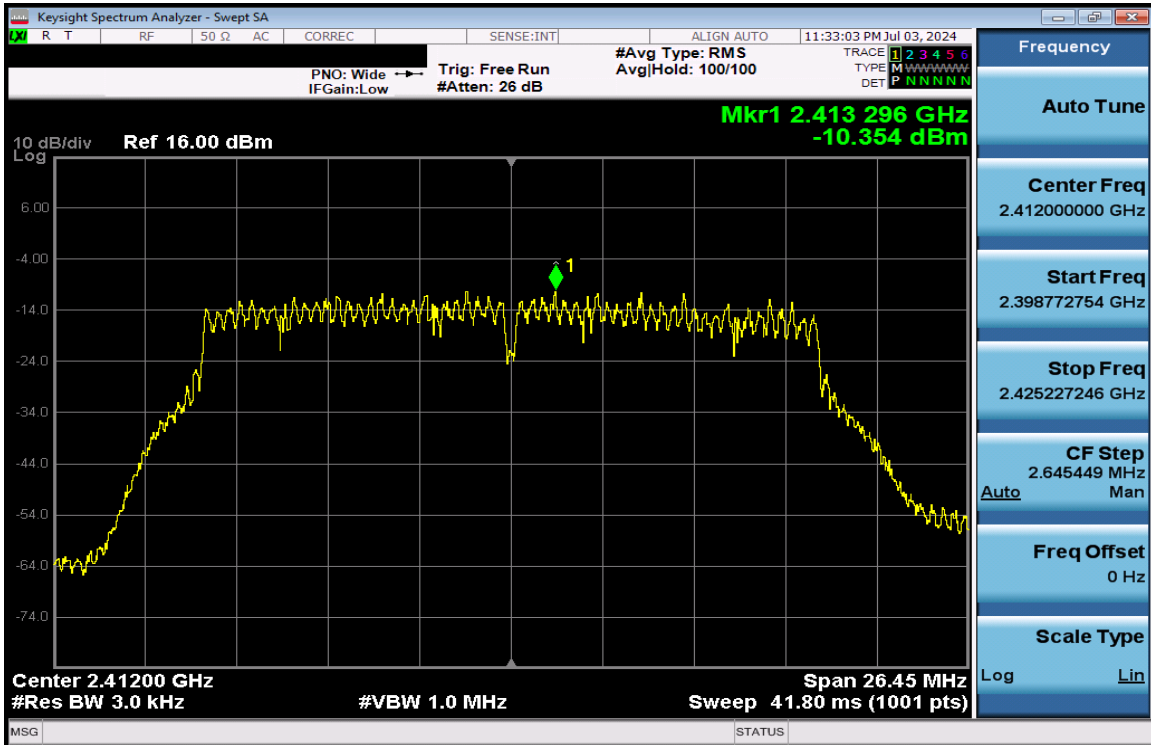


Plot 7-144. Power Spectral Density Plot CDD Antenna 1a (802.11g– Ch. 11) – 24Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 113 of 430

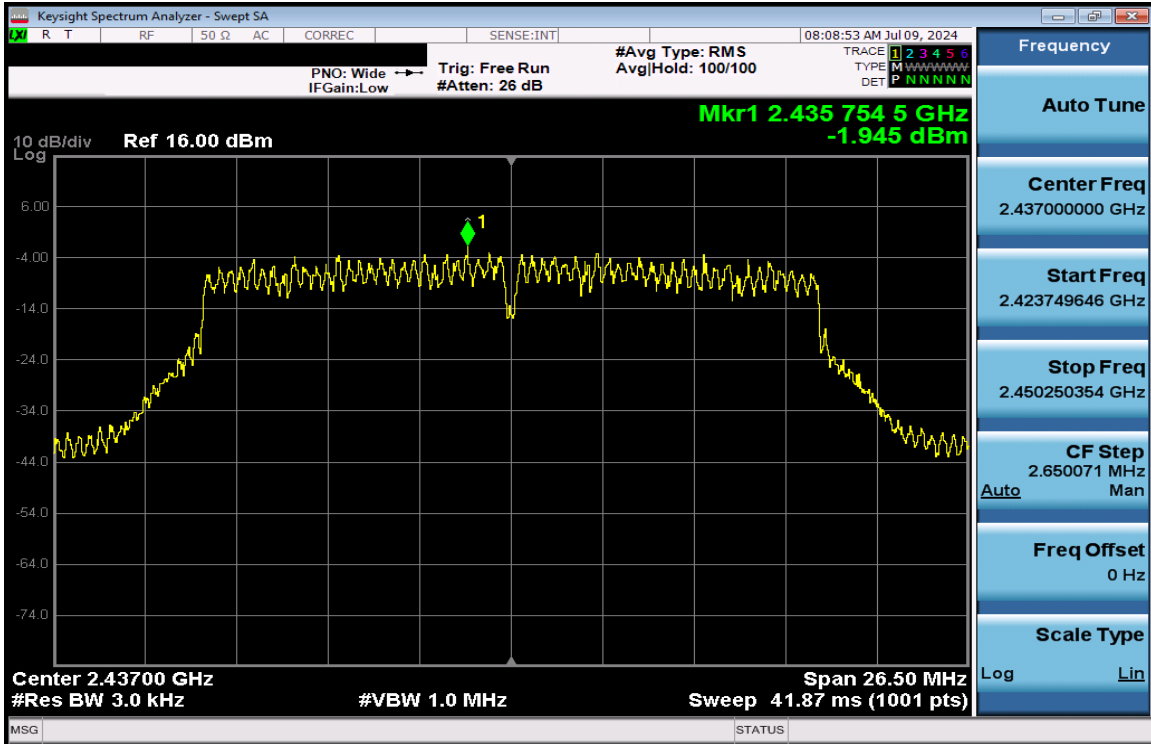


Plot 7-145. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS12

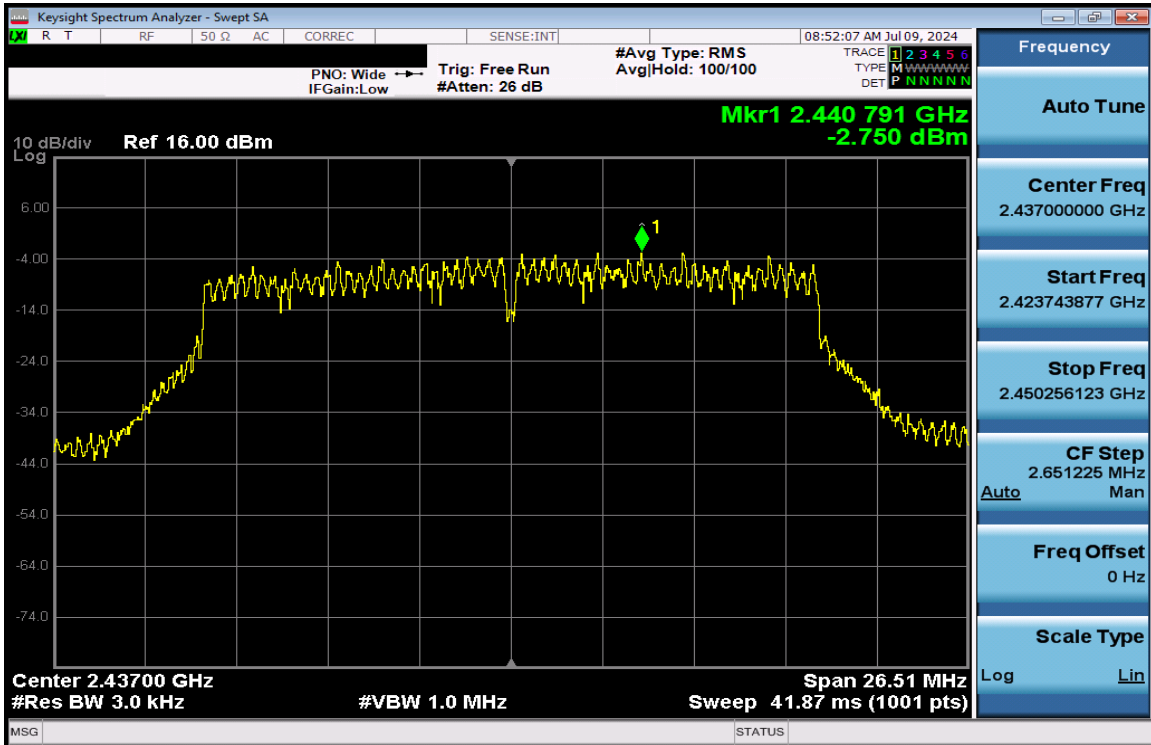


Plot 7-146. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS12

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 114 of 430

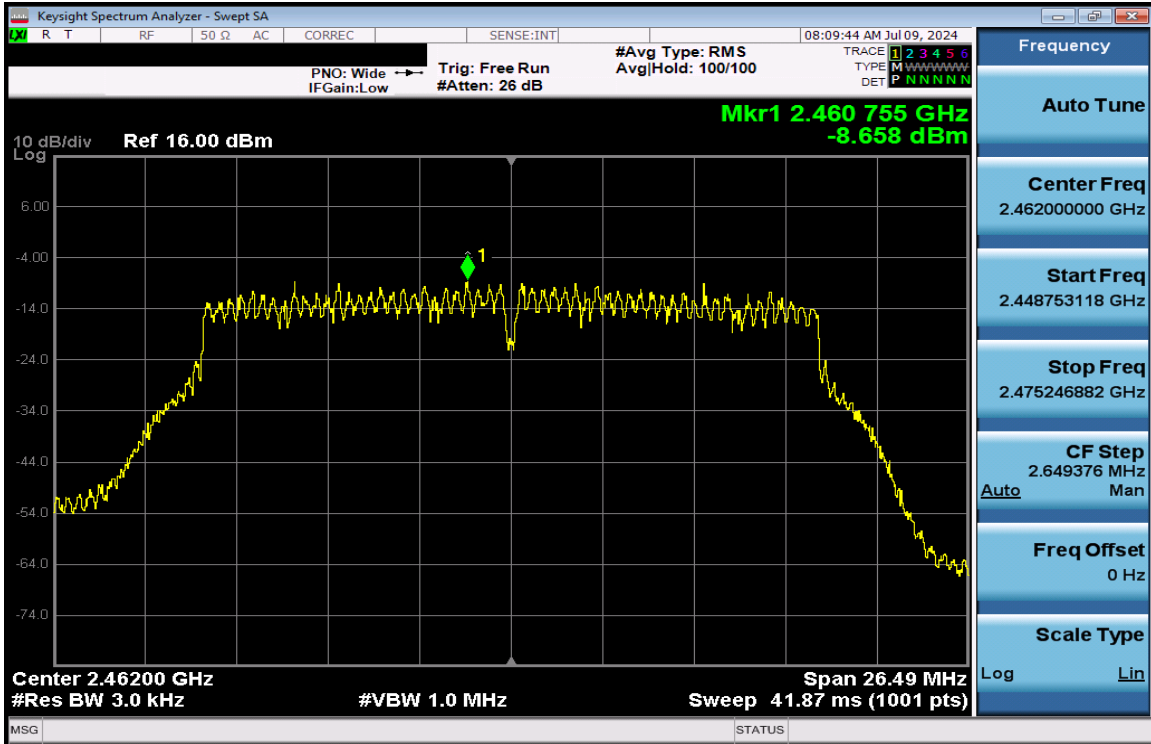


Plot 7-147. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS12

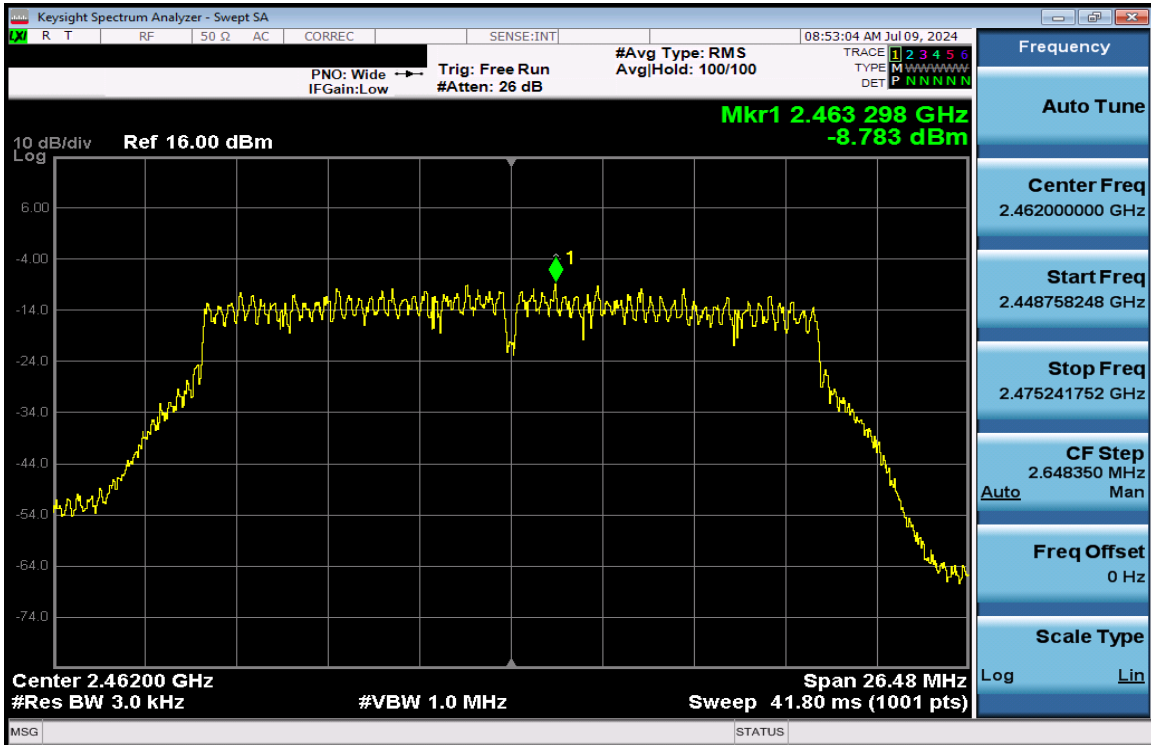


Plot 7-148. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS12

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 115 of 430



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: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 116 of 430



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: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 117 of 430



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

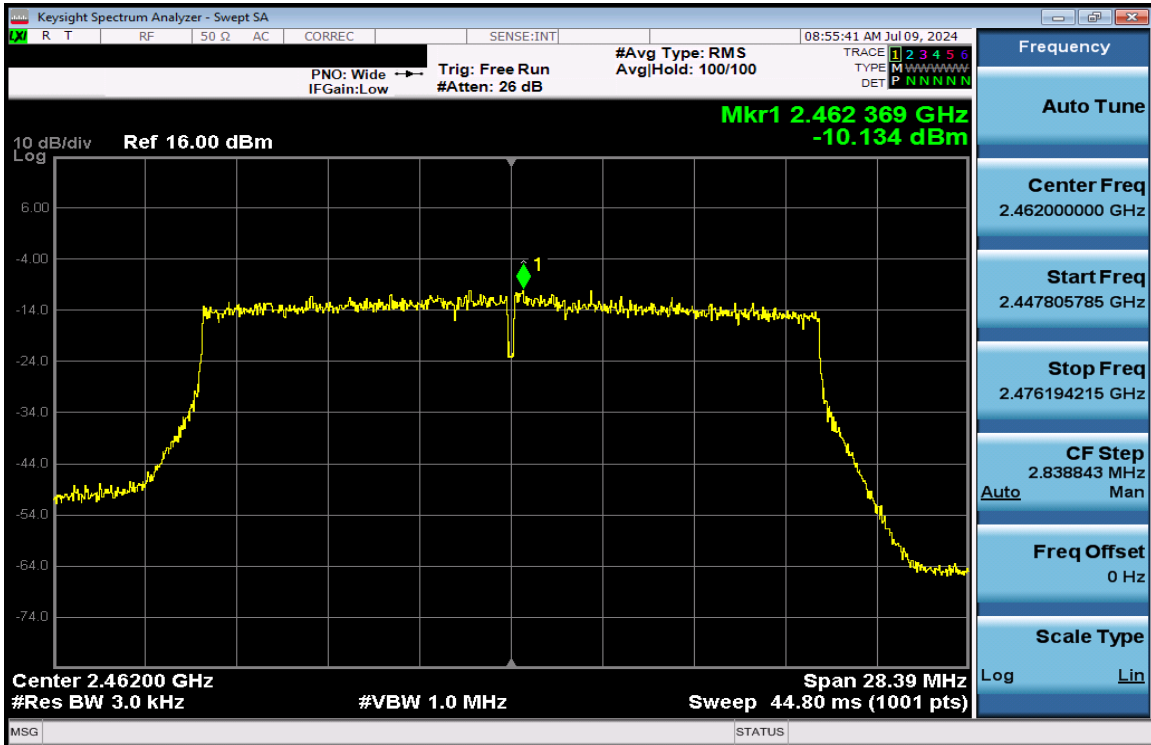


Plot 7-154. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 118 of 430



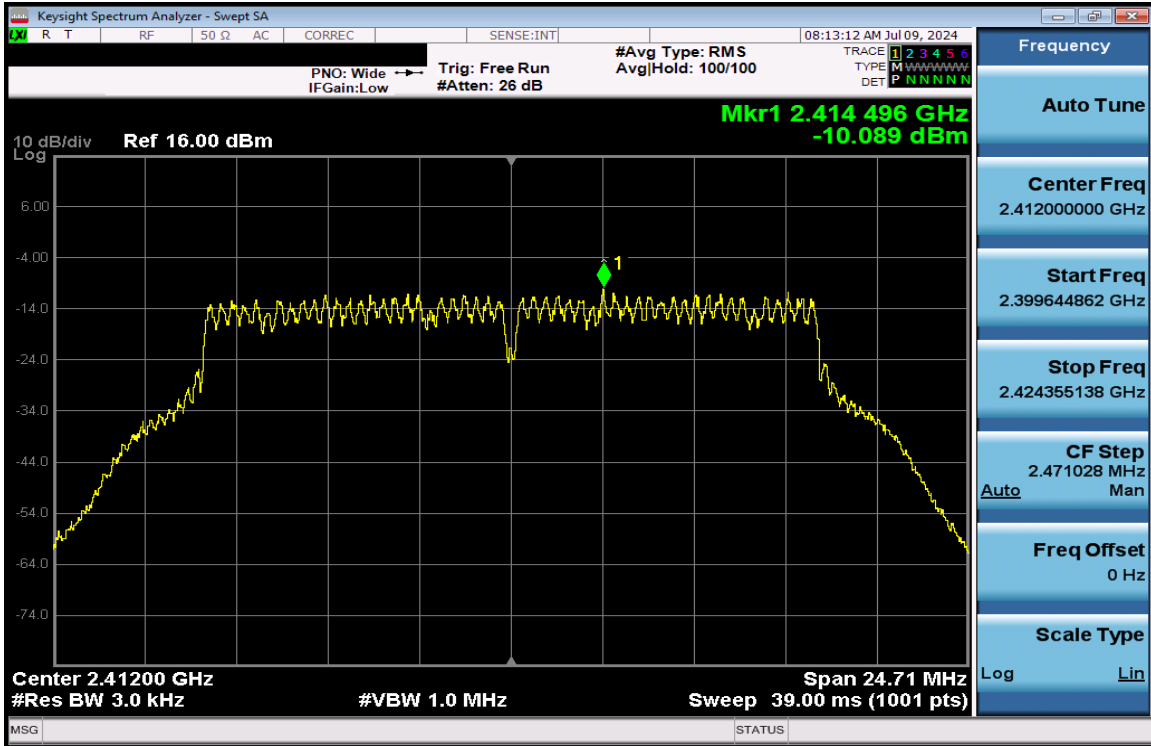
Plot 7-155. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4



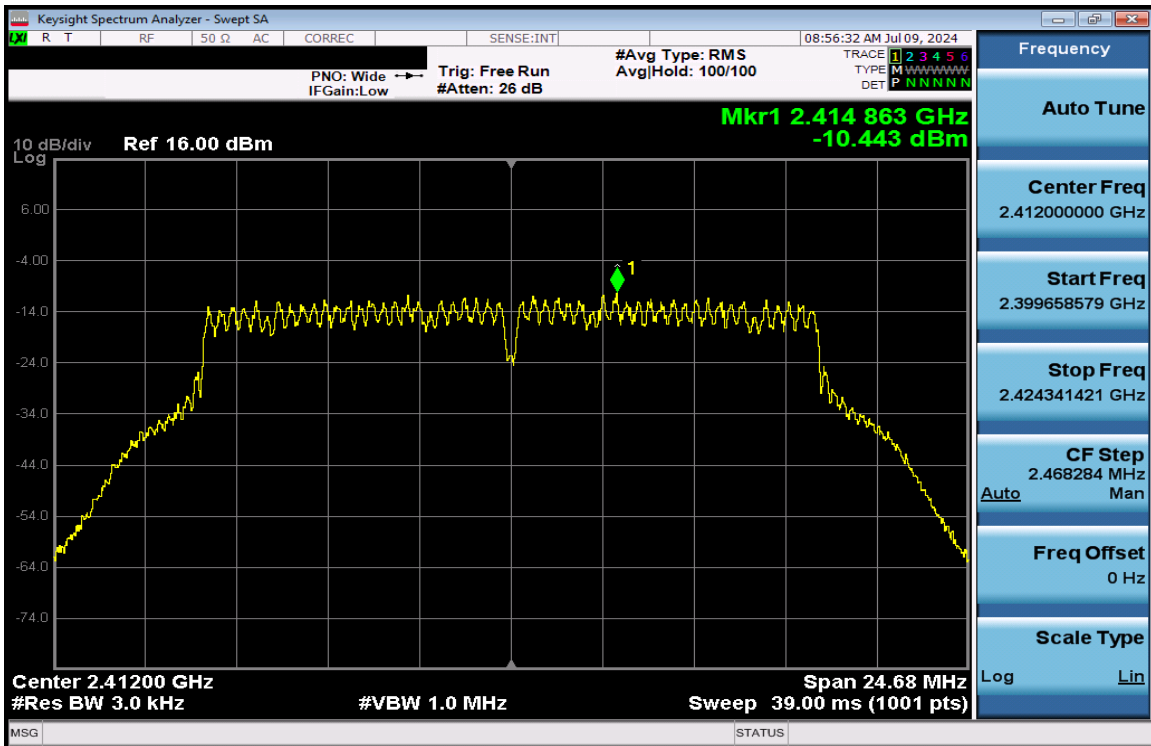
Plot 7-156. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 119 of 430

High Rate

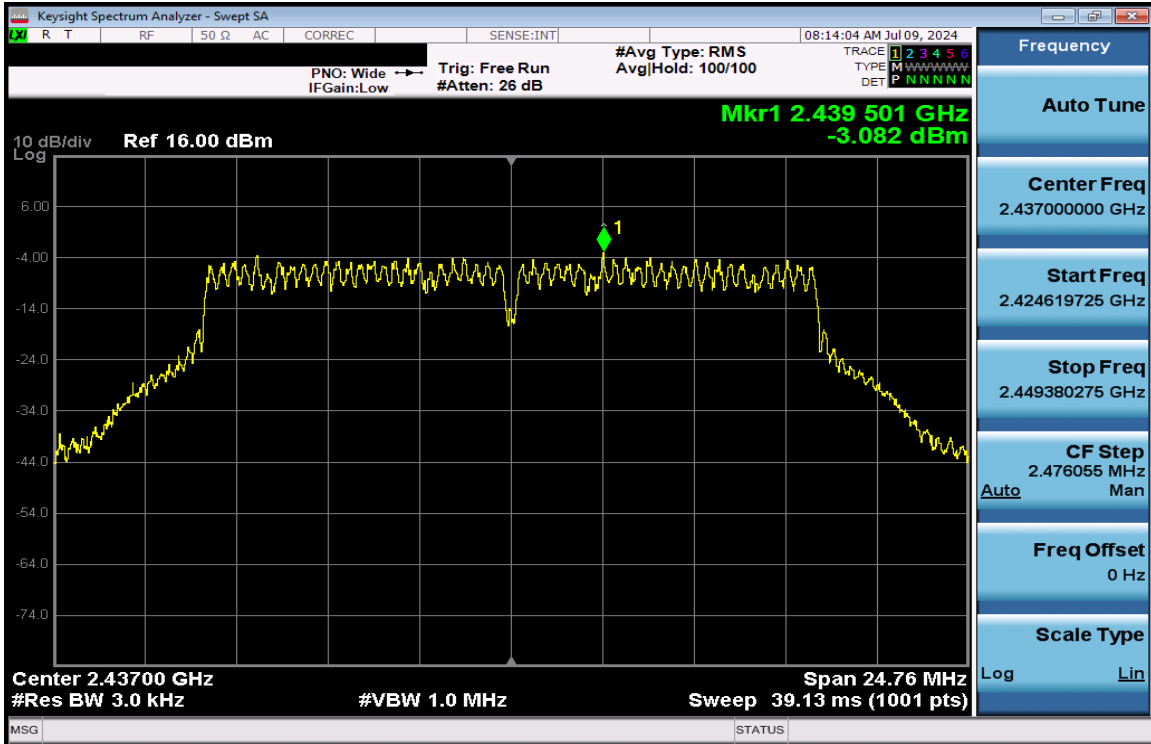


Plot 7-157. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 1) – 54Mbps

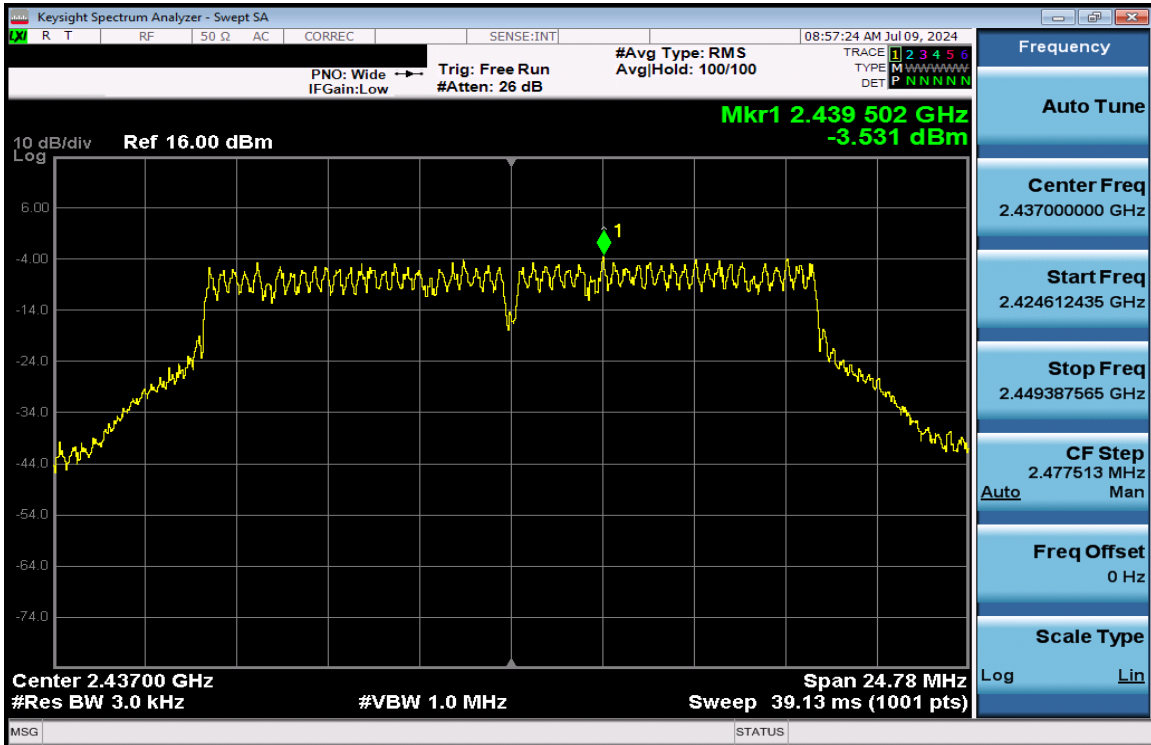


Plot 7-158. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 120 of 430

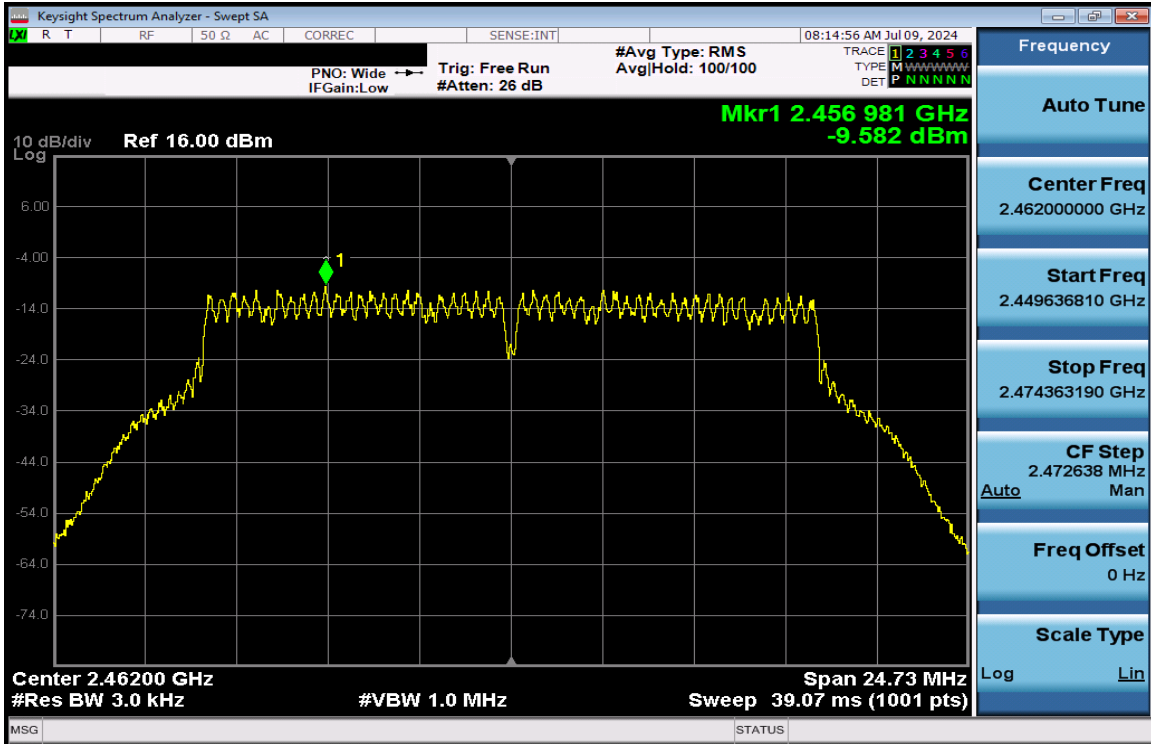


Plot 7-159. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 6) – 54Mbps

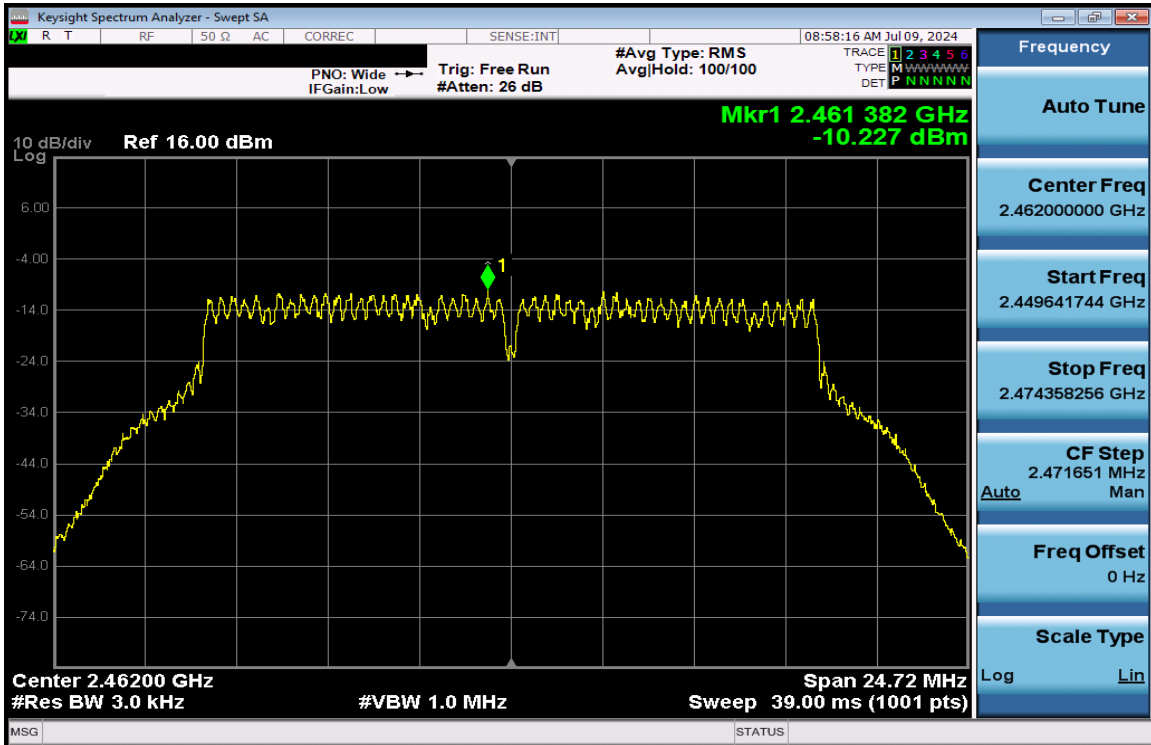


Plot 7-160. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 6) – 54Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 121 of 430

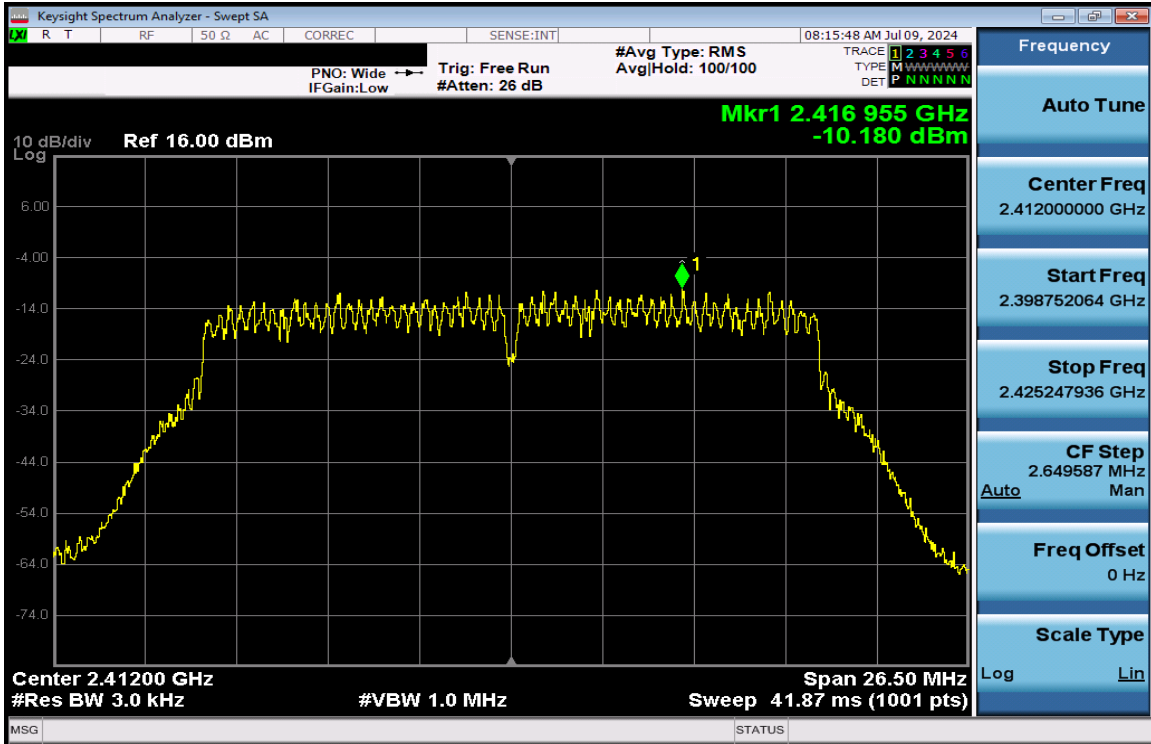


Plot 7-161. Power Spectral Density Plot CDD Antenna 3a (802.11g – Ch. 11) – 54Mbps

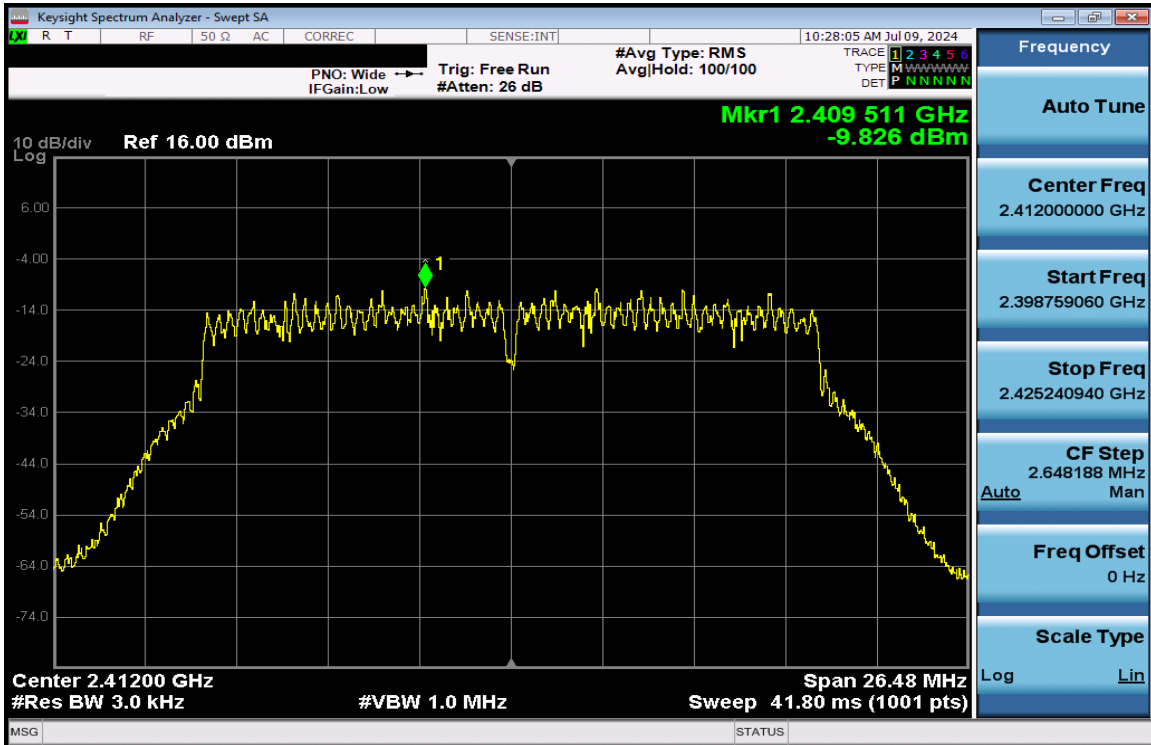


Plot 7-162. Power Spectral Density Plot CDD Antenna 1a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 122 of 430

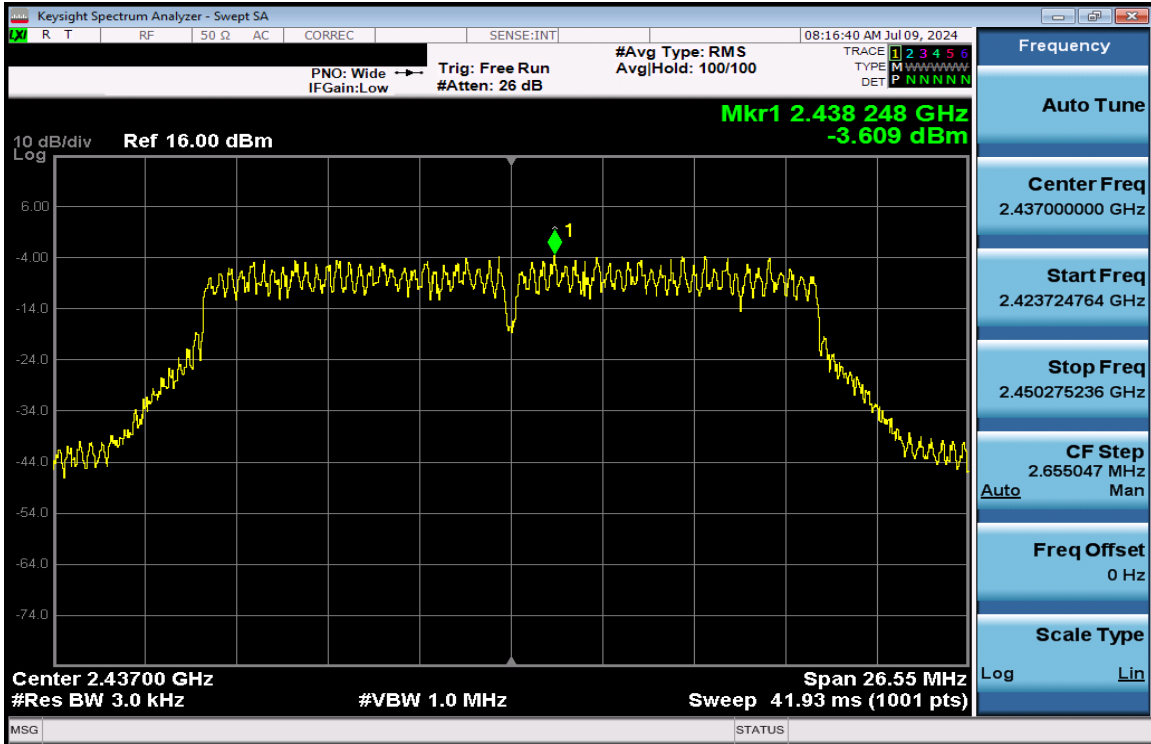


Plot 7-163. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS15

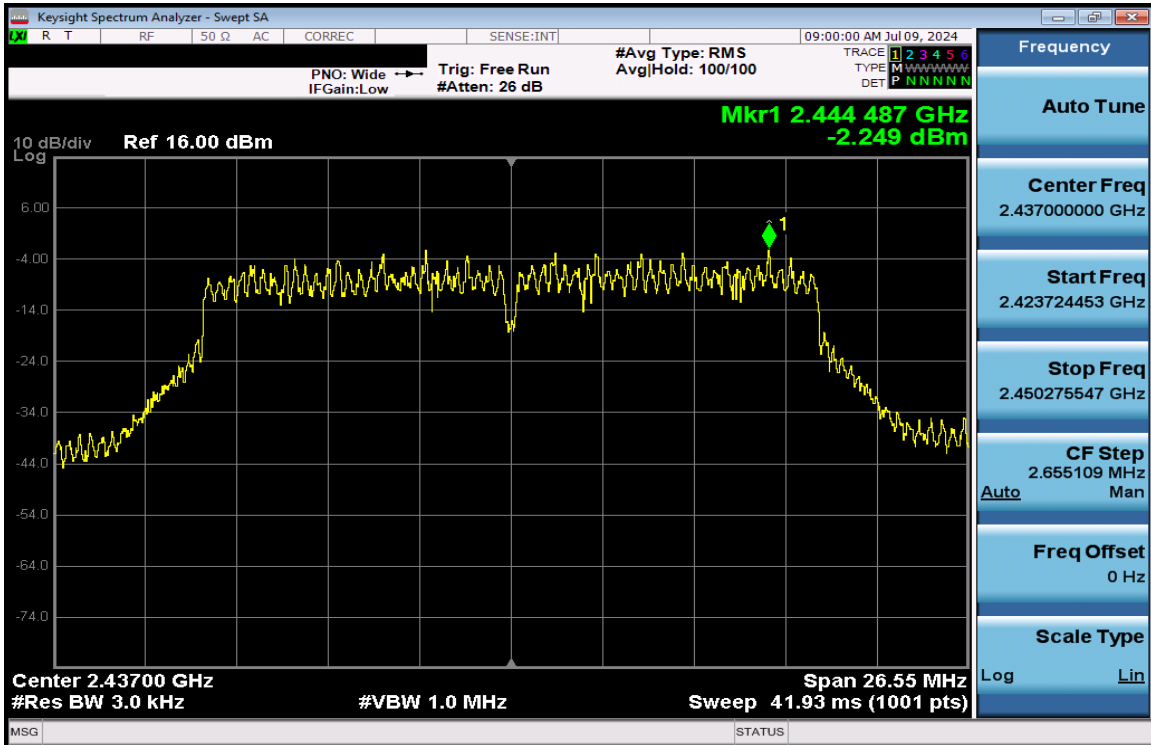


Plot 7-164. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS15

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-14.BCG	Test Dates: 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 123 of 430

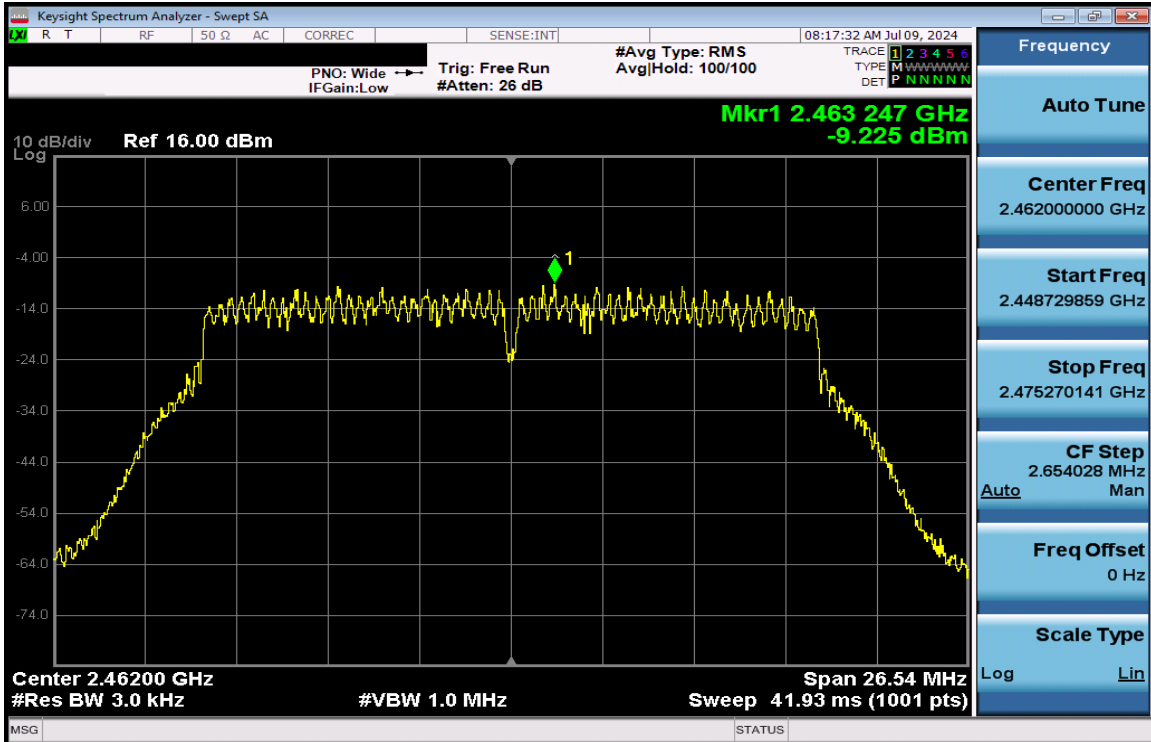


Plot 7-165. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS15

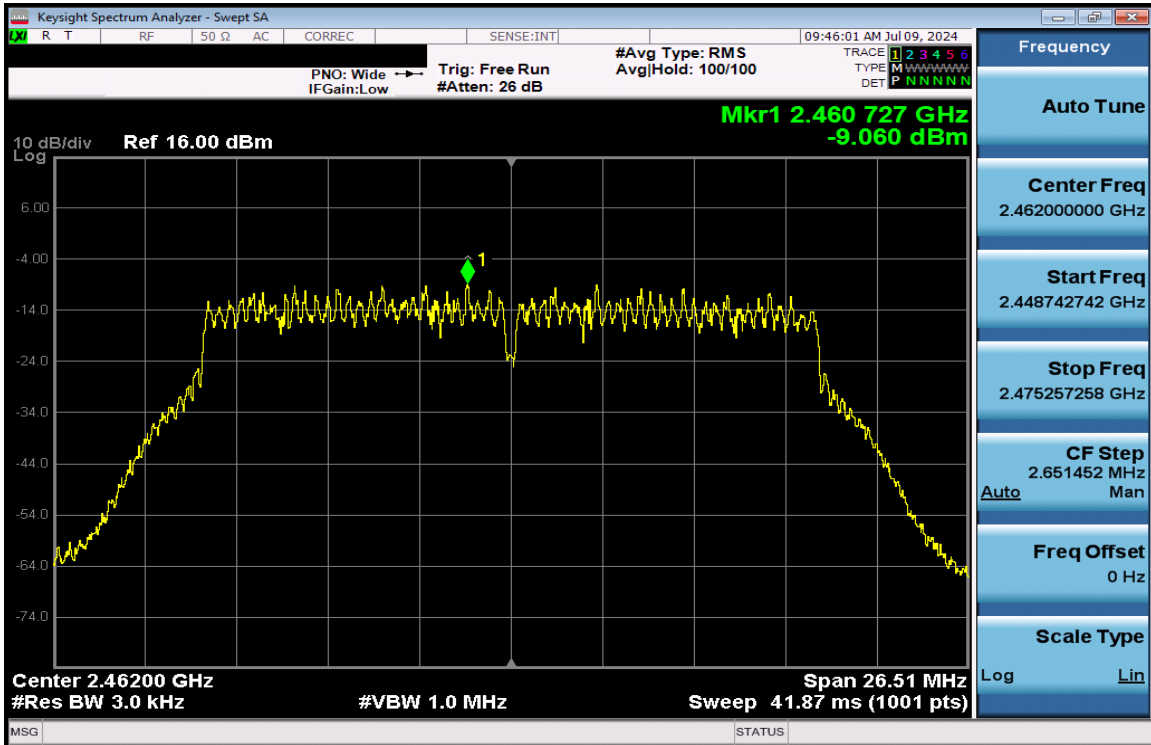


Plot 7-166. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS15

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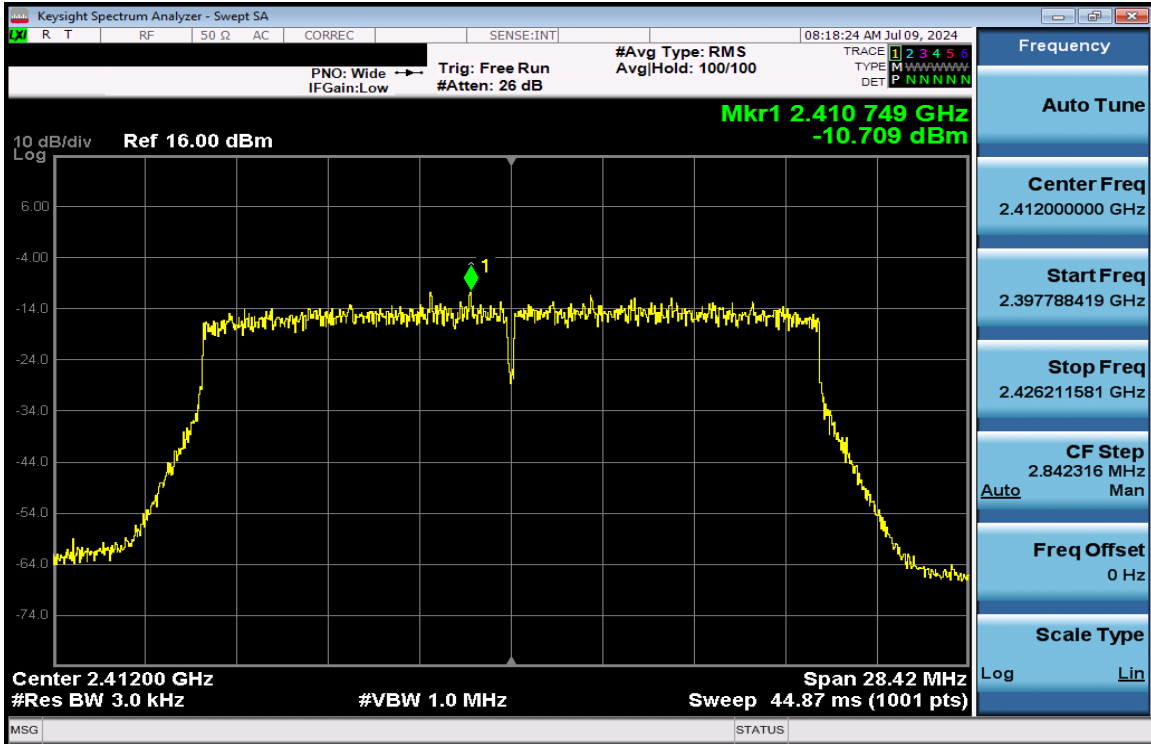


Plot 7-167. Power Spectral Density Plot CDD Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS15

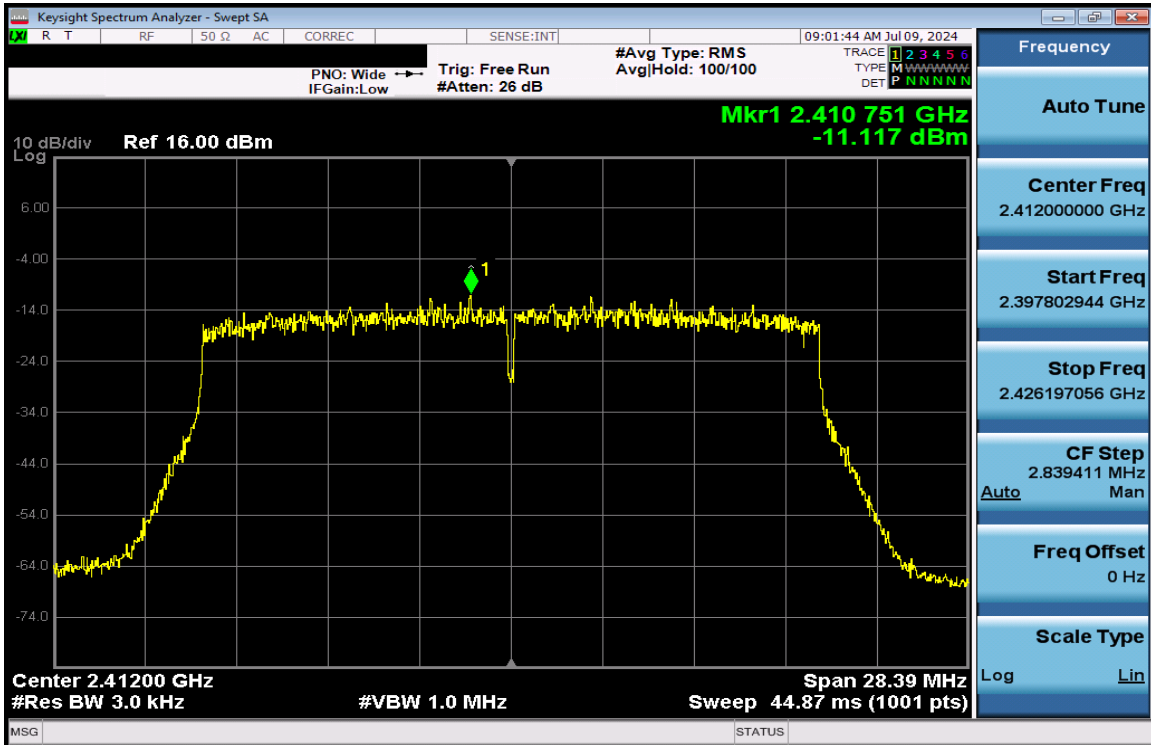


Plot 7-168. Power Spectral Density Plot CDD Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS15

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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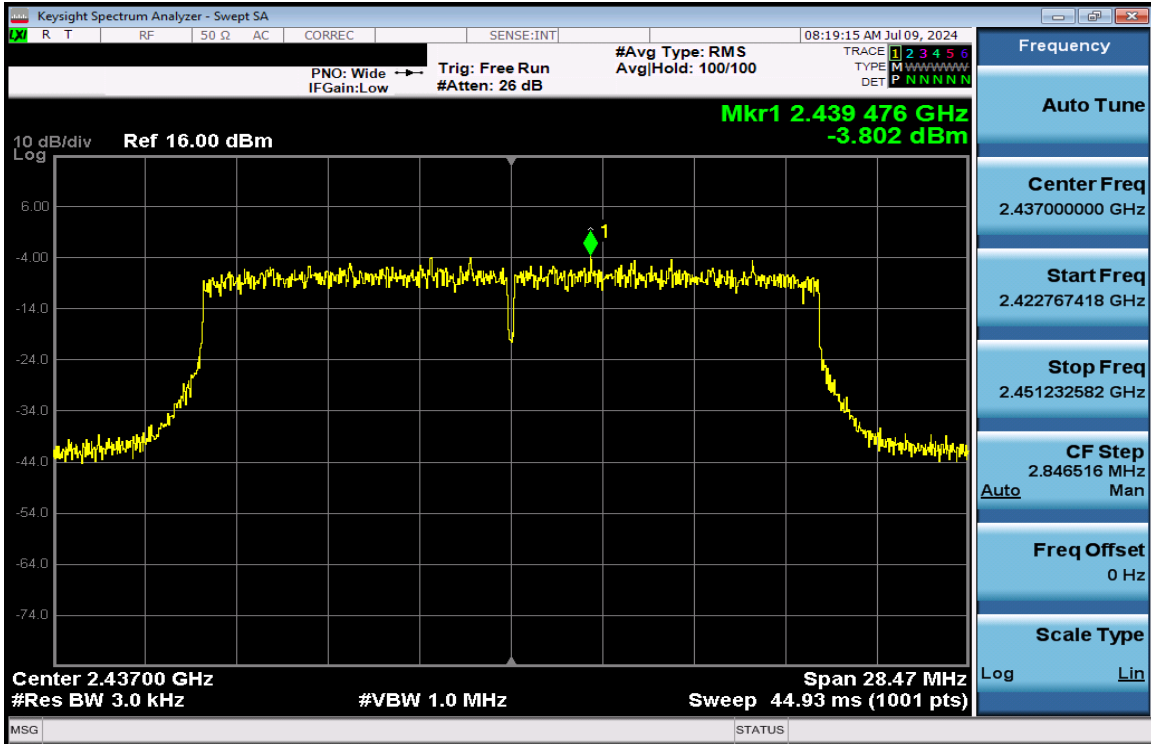


Plot 7-169. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

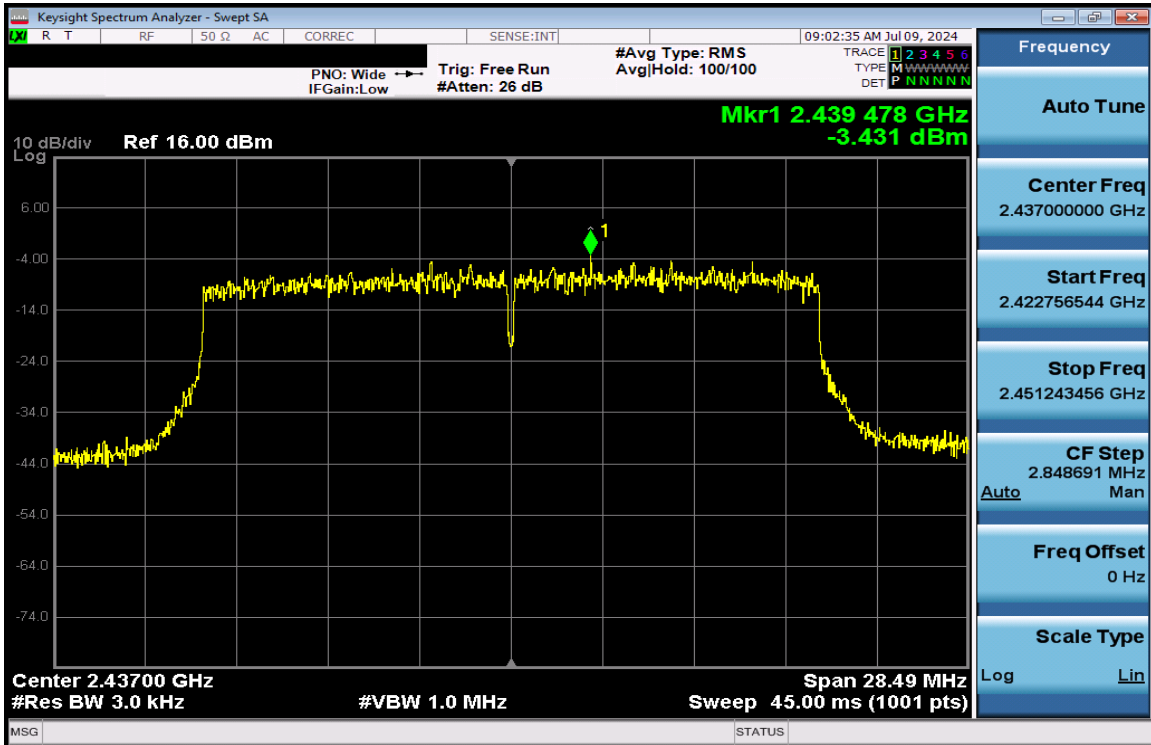


Plot 7-170. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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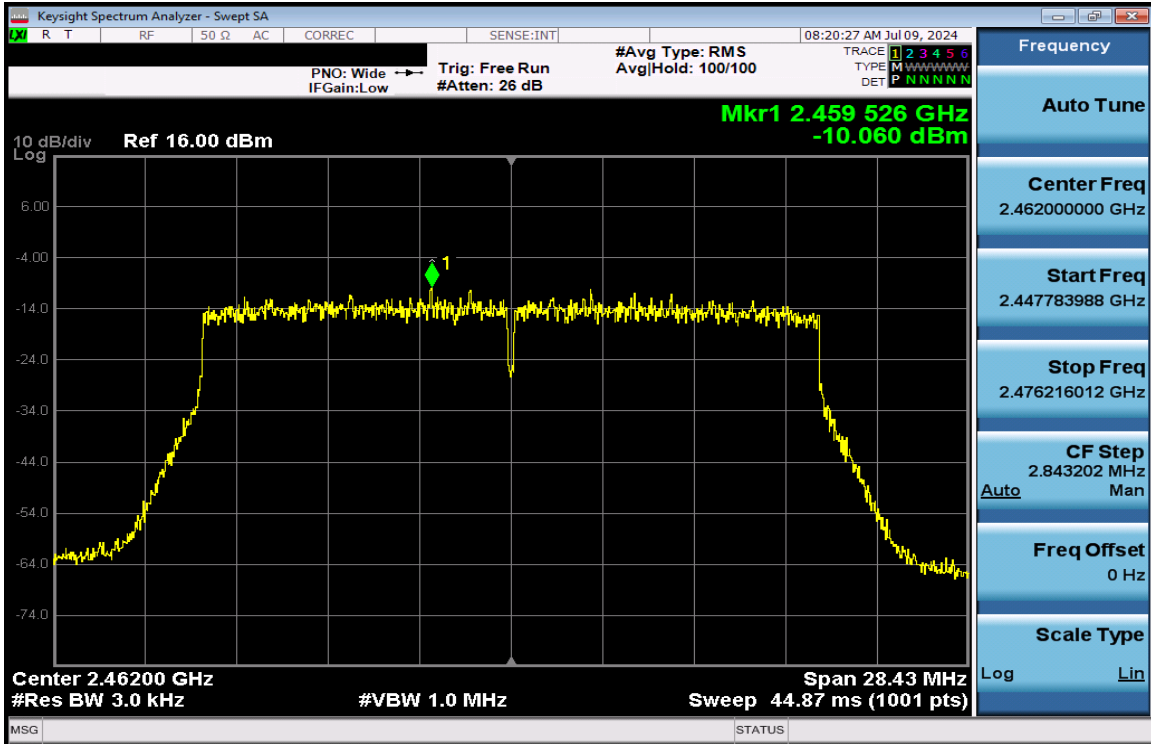


Plot 7-171. Power Spectral Density Plot CDD Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9

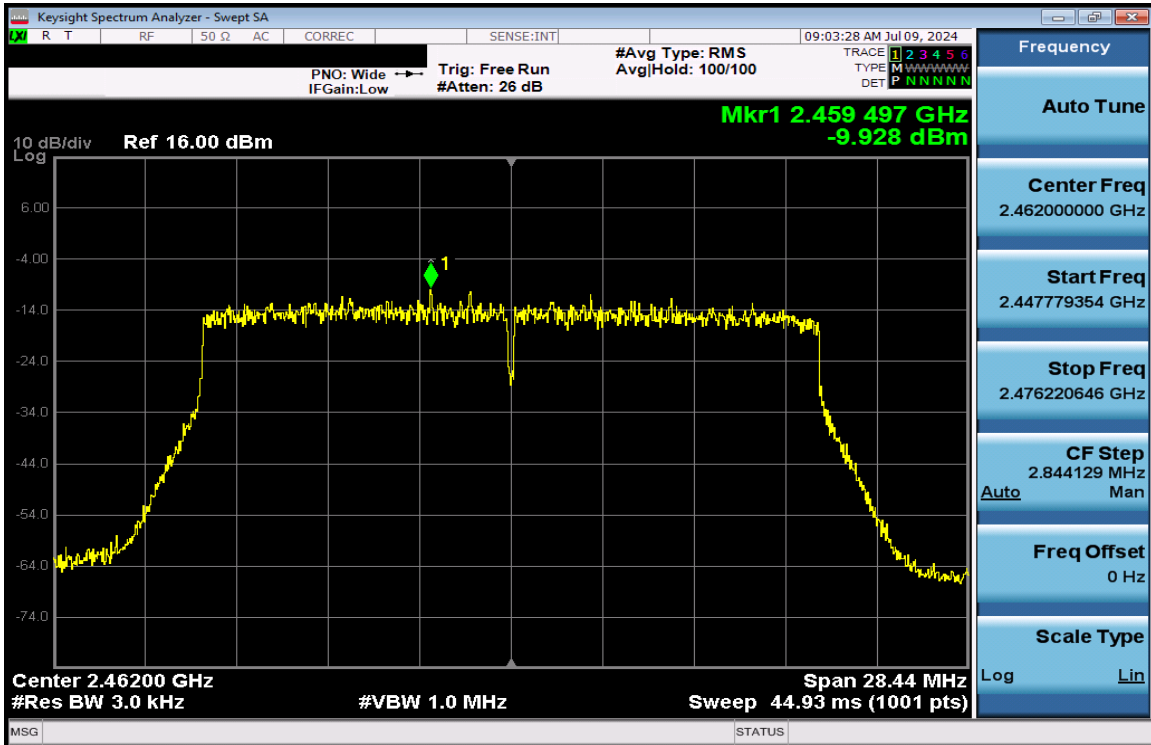


Plot 7-172. Power Spectral Density Plot CDD Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Note:

Per ANSI C63.10-2020 Section 14.5.2.2 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 -9.30 dBm for Antenna 3a and -9.69 dBm for Antenna 1a.

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

$$(-9.30 \text{ dBm} + -9.69 \text{ dBm}) = (0.117 \text{ mW} + 0.108 \text{ mW}) = 0.225 \text{ mW} = -6.48 \text{ dBm}$$

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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 C63.10-2020 – 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.

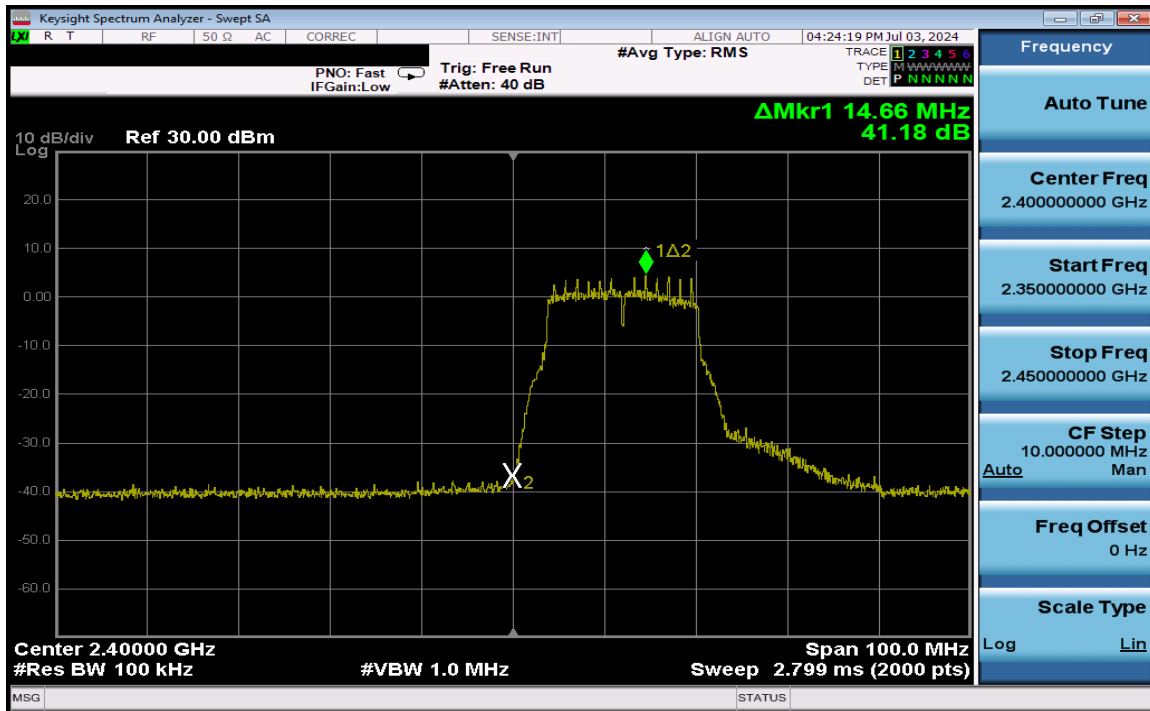
The data rates have been classified into three different groups: low data rate, middle data rate, and high data rate. All three data groups have been investigated and only the worst case data rate per group is reported.

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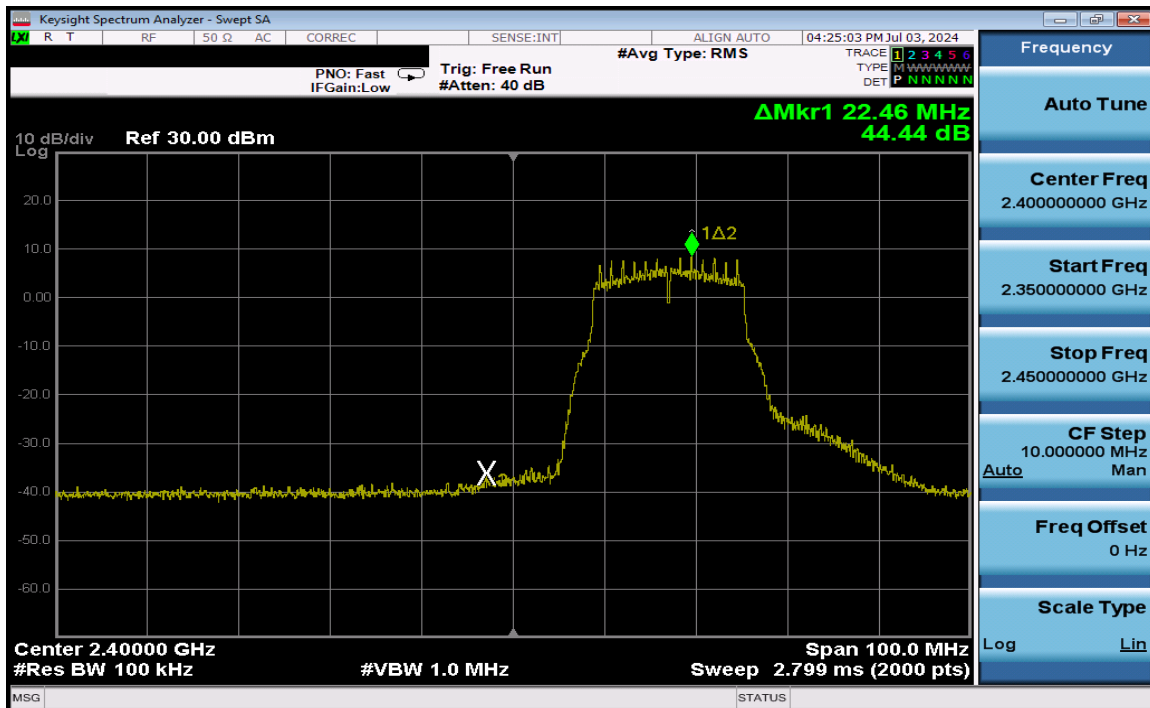
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7.5.1 Antenna 3a Conducted Emissions at the Band Edge

Low Rate

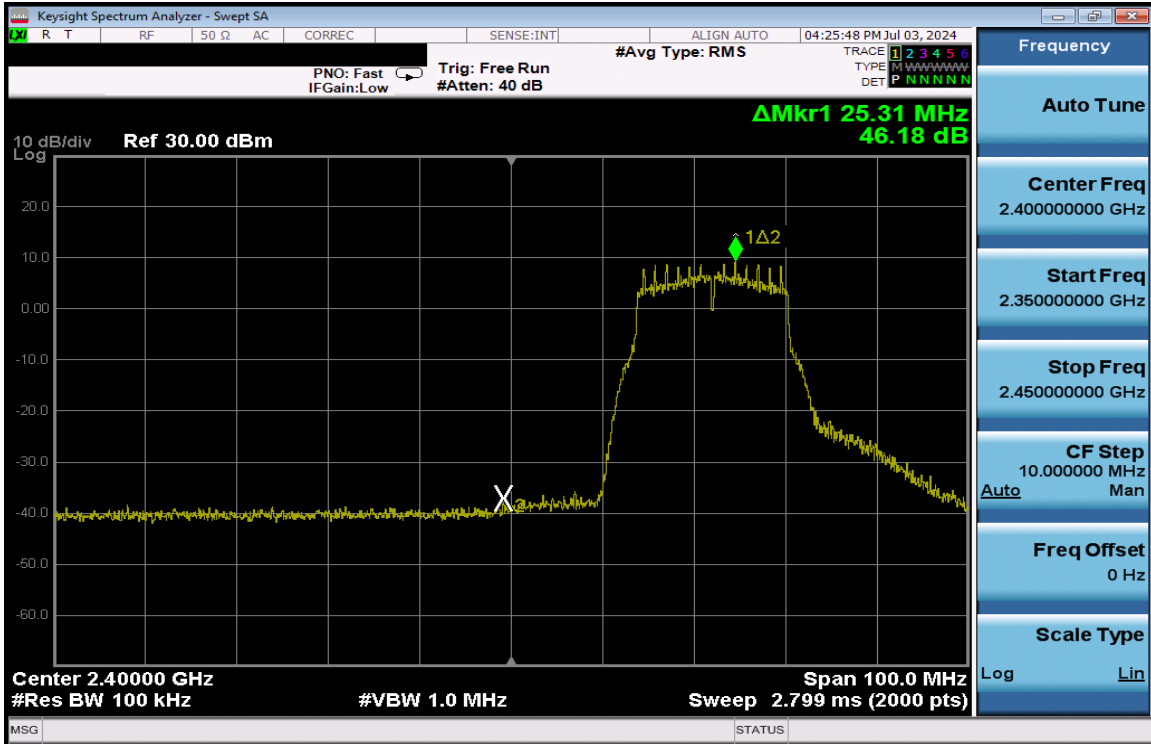


Plot 7-175. Band Edge Plot Antenna 3a (802.11g – Ch. 1) – 12Mbps

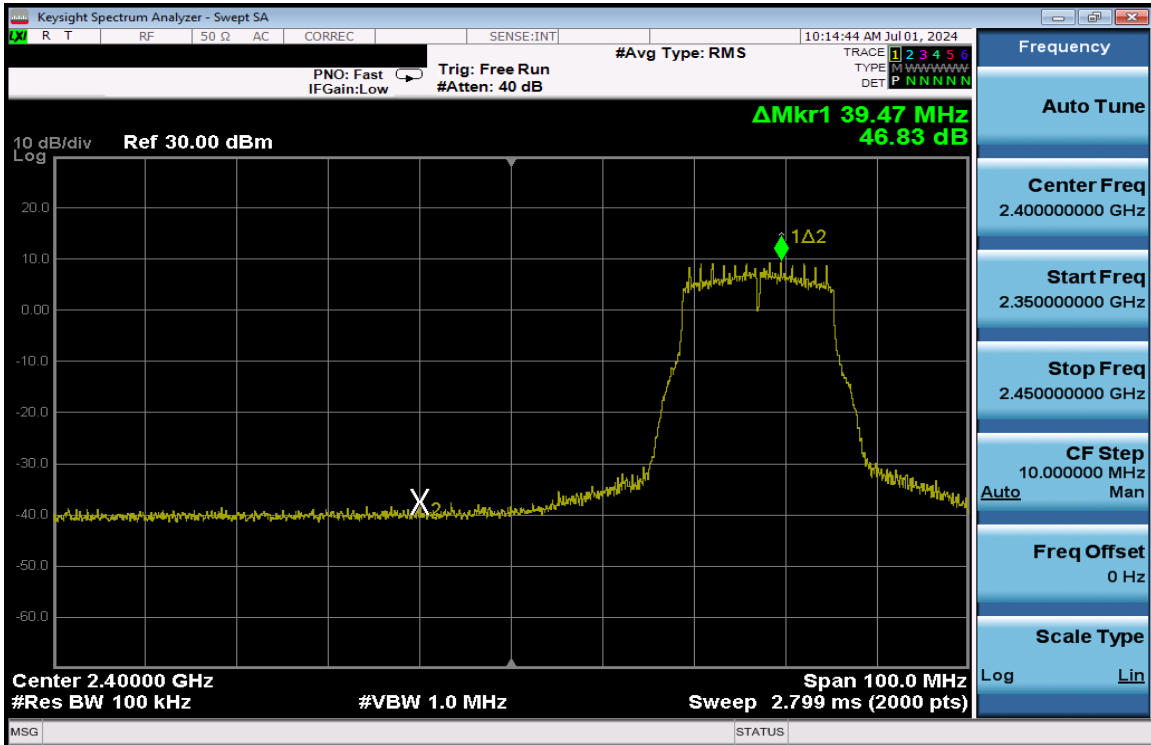


Plot 7-176. Band Edge Plot Antenna 3a (802.11g – Ch. 2) – 12Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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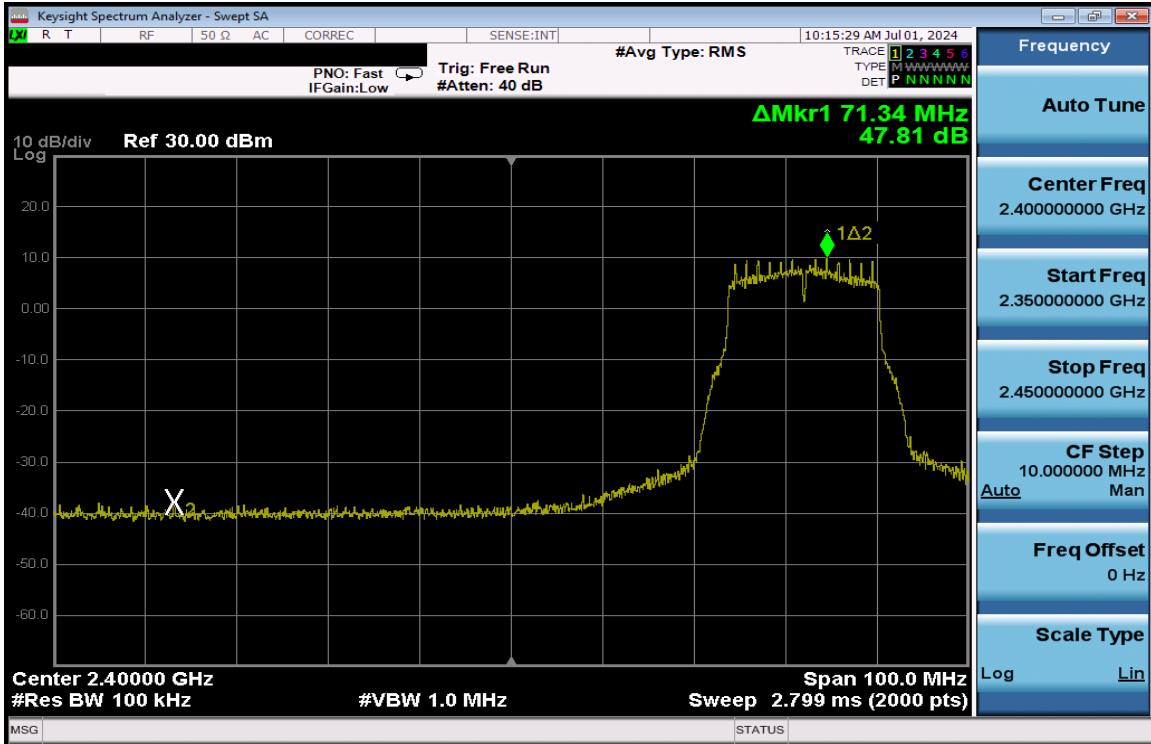


Plot 7-177. Band Edge Plot Antenna 3a (802.11g – Ch. 3) – 12Mbps

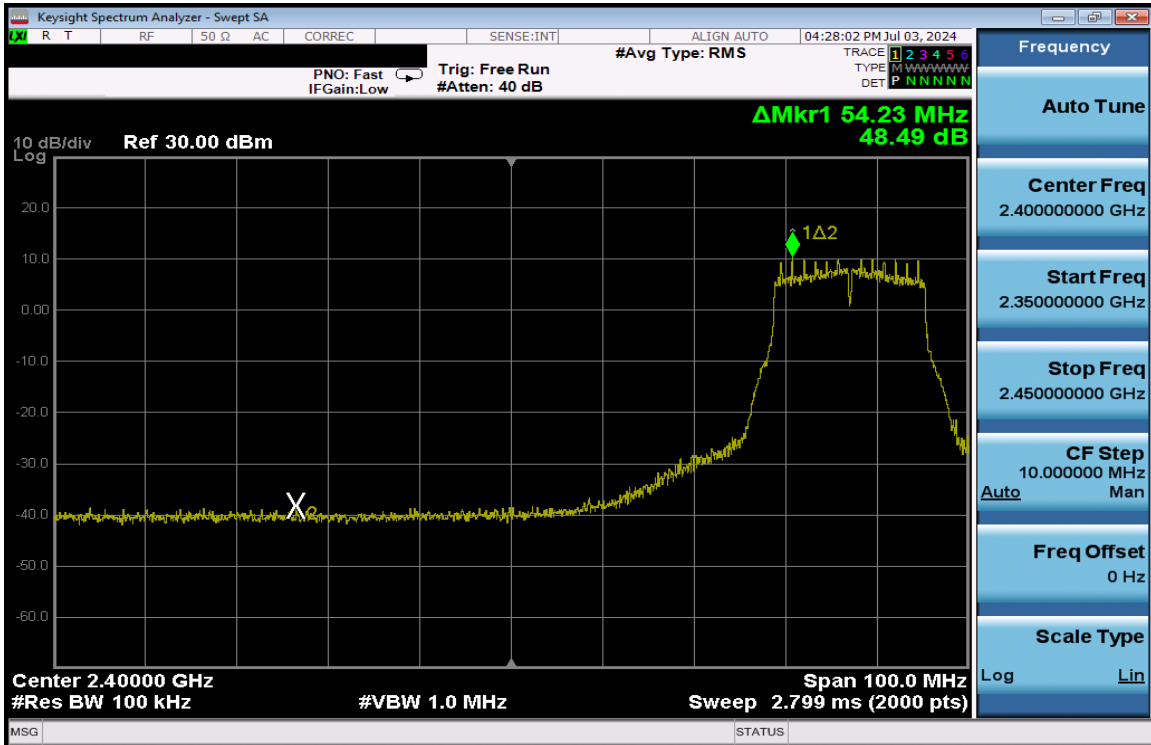


Plot 7-178. Band Edge Plot Antenna 3a (802.11g – Ch. 4) – 12Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-179. Band Edge Plot Antenna 3a (802.11g – Ch. 5) – 12Mbps



Plot 7-180. Band Edge Plot Antenna 3a (802.11g – Ch. 6 Low) – 12Mbps

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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