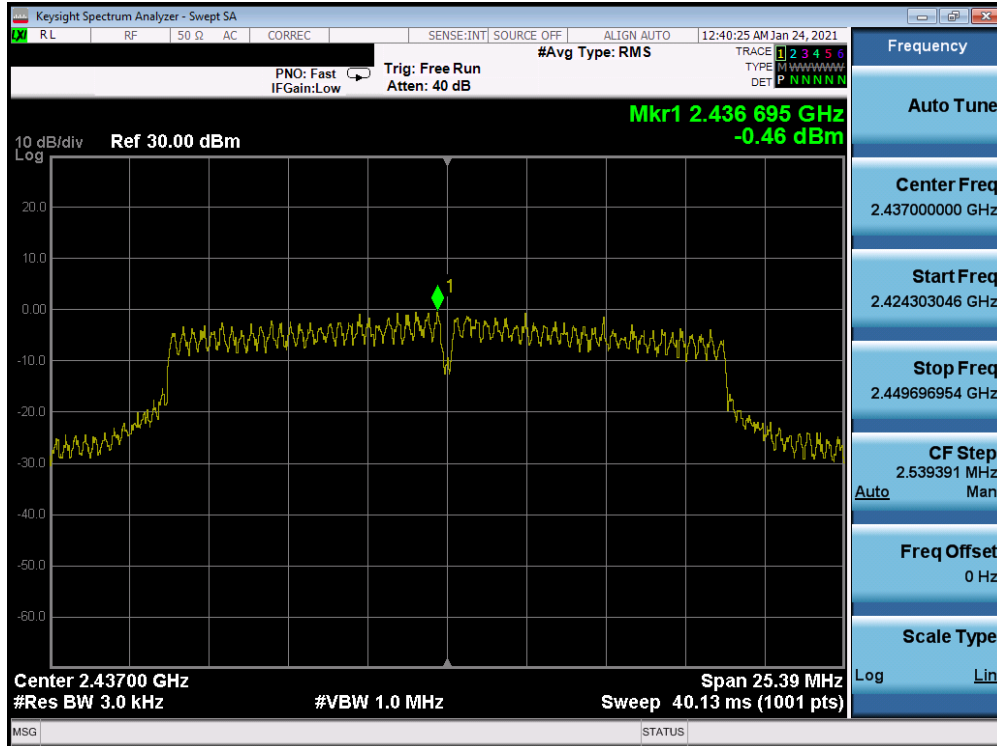
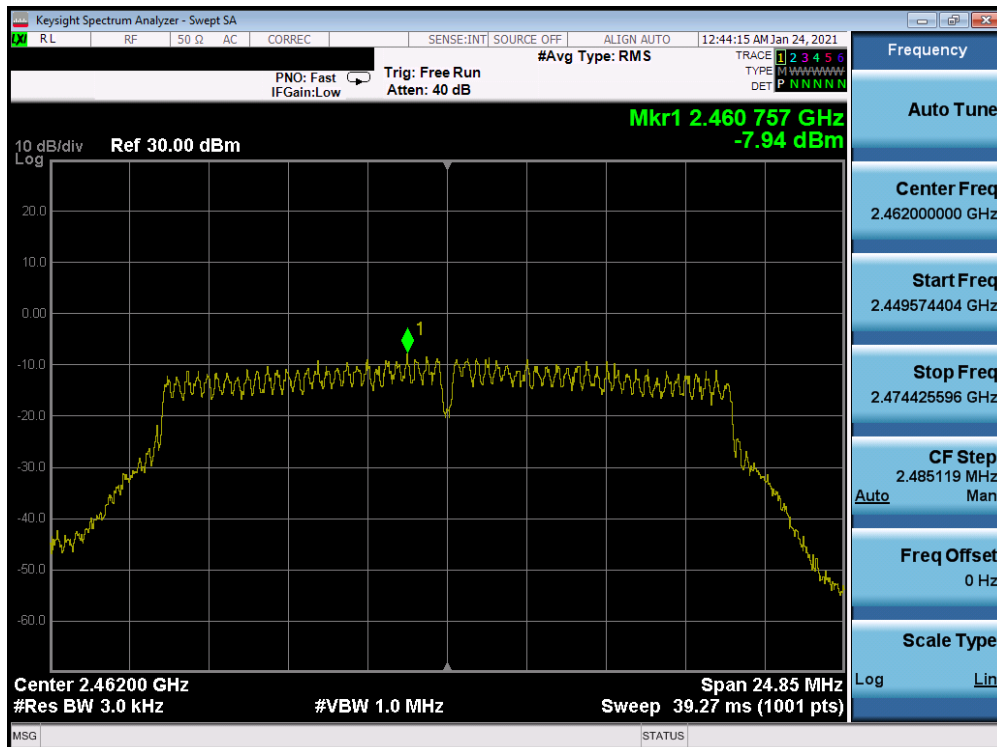


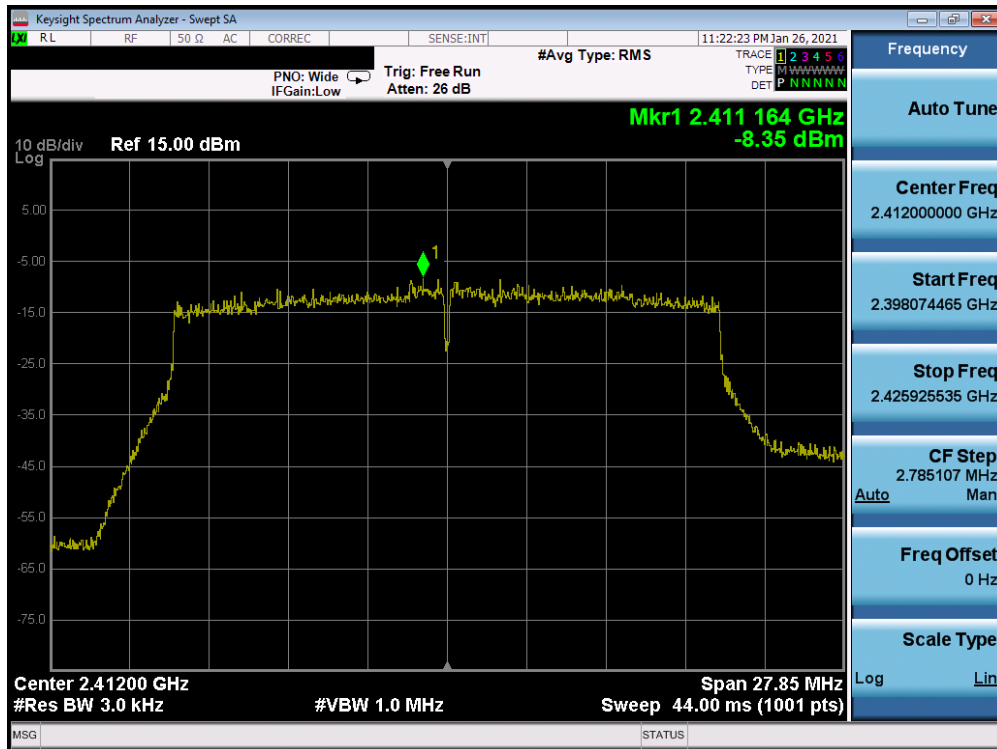


Plot 7-95. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS0

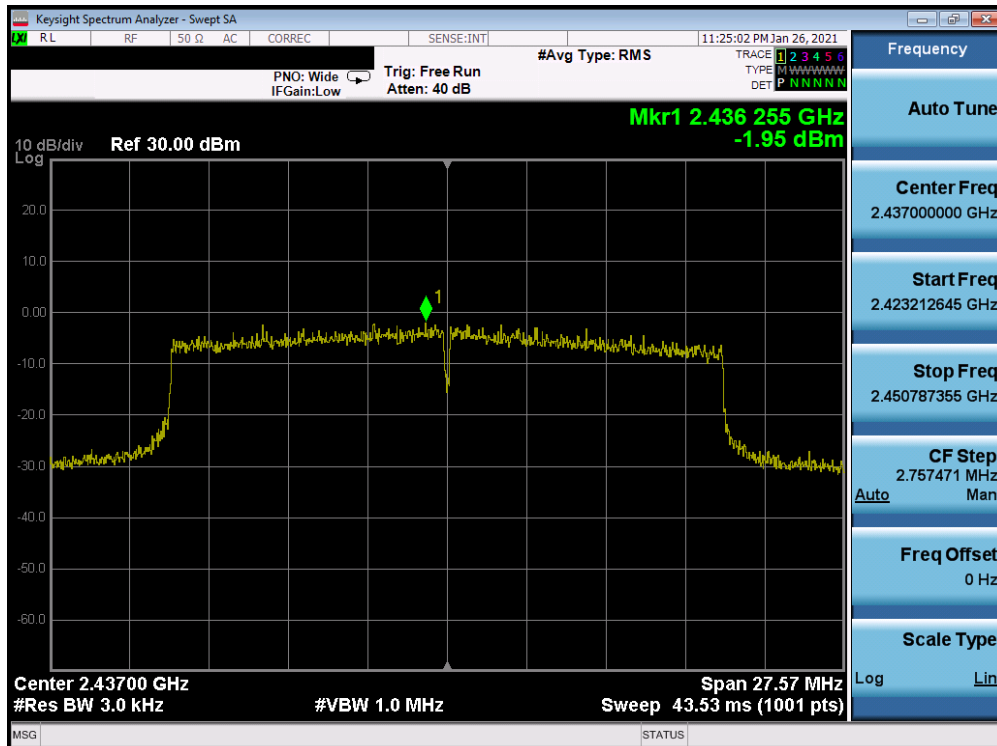


Plot 7-96. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 89 of 345

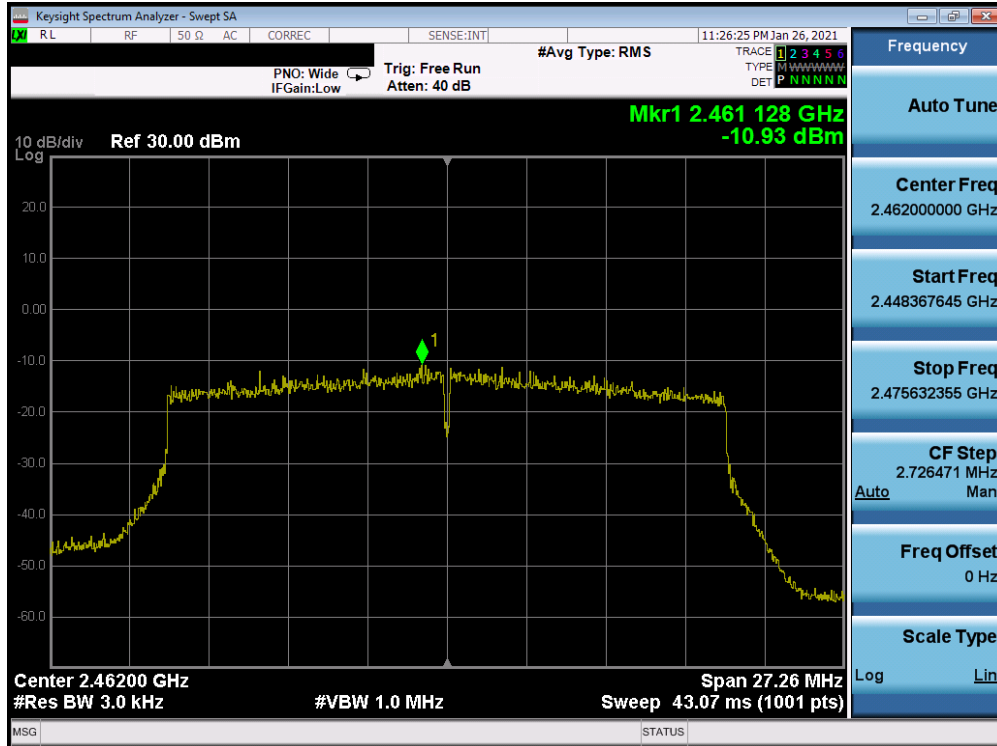


Plot 7-97. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS0



Plot 7-98. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS0

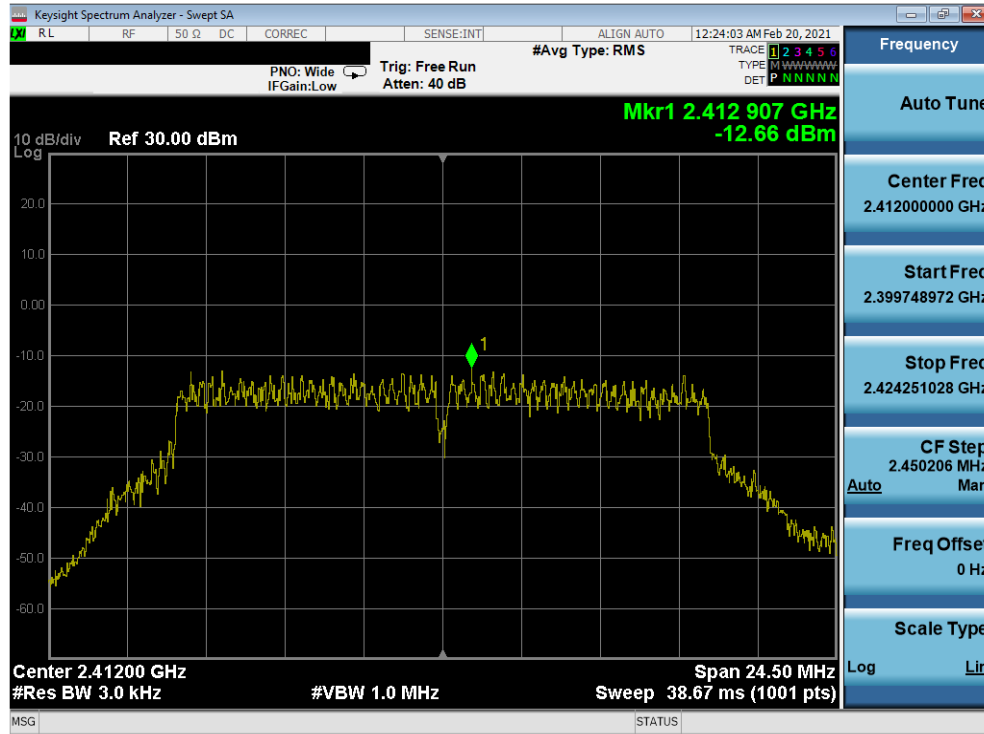
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 90 of 345



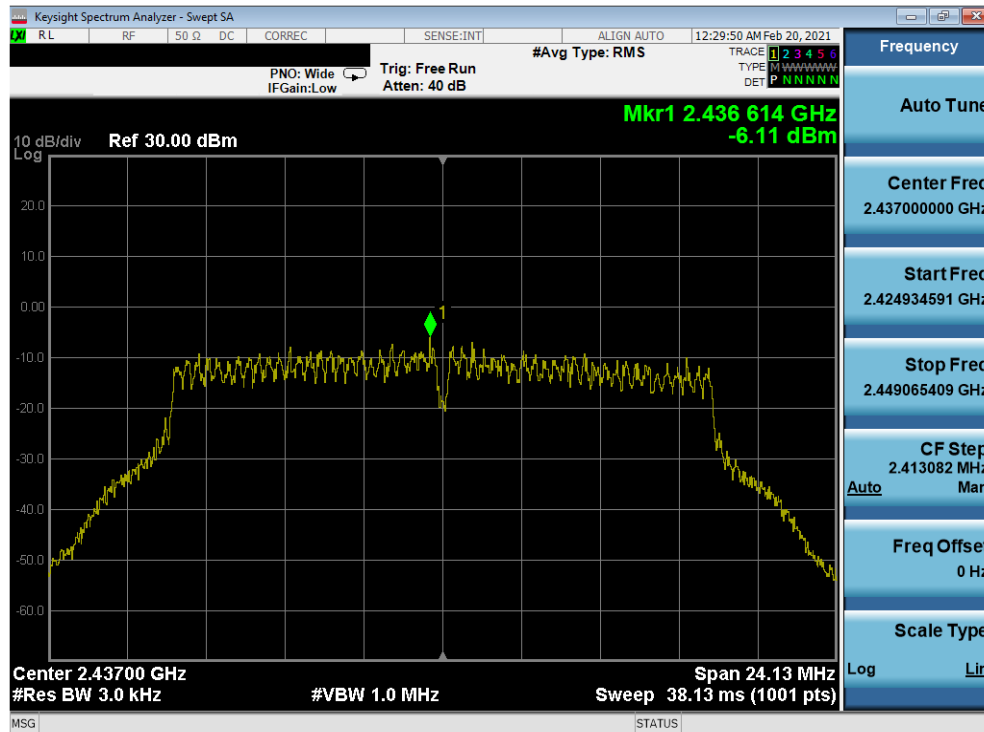
Plot 7-99. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 91 of 345

Mid Data Rate

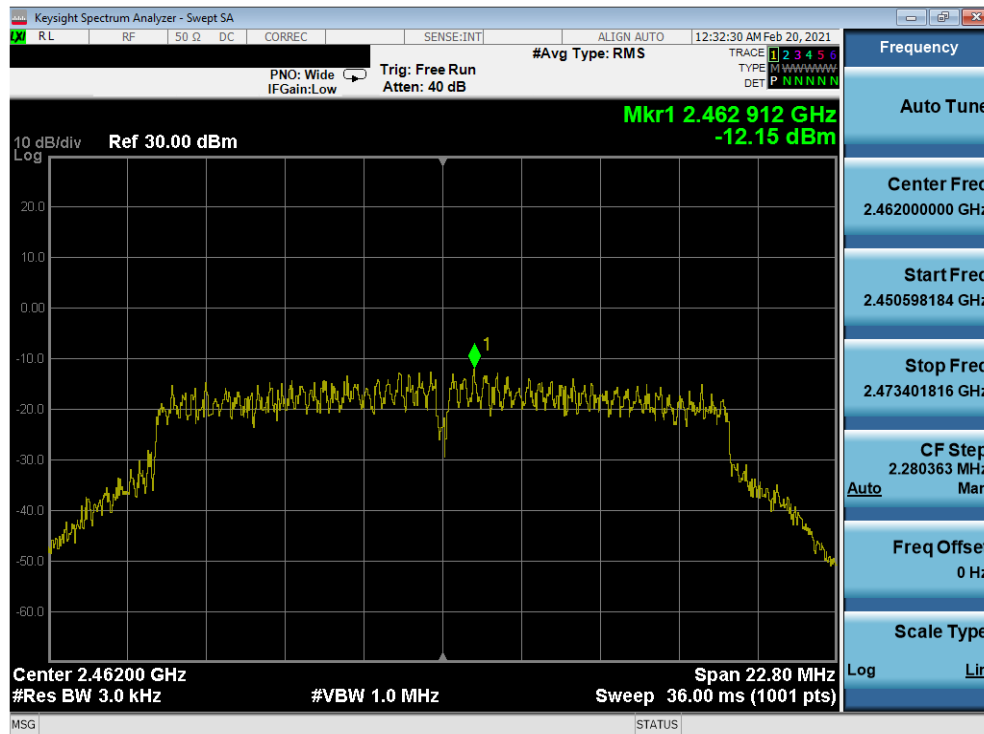


Plot 7-100. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 1) – 18Mbps

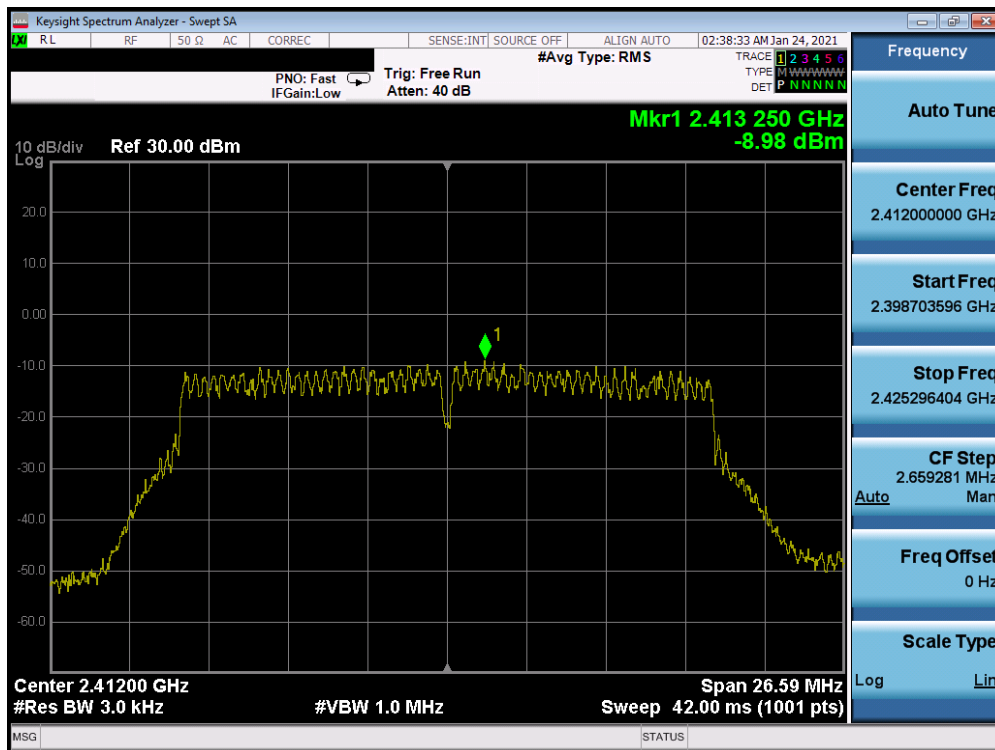


Plot 7-101. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 6) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 92 of 345

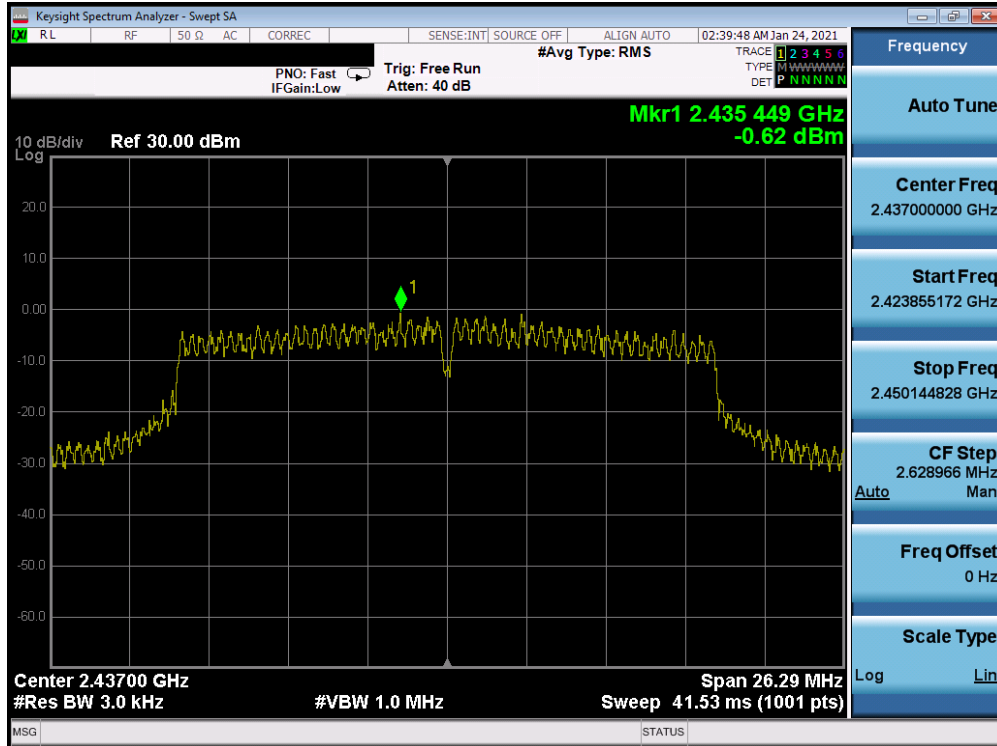


Plot 7-102. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 11) – 18Mbps

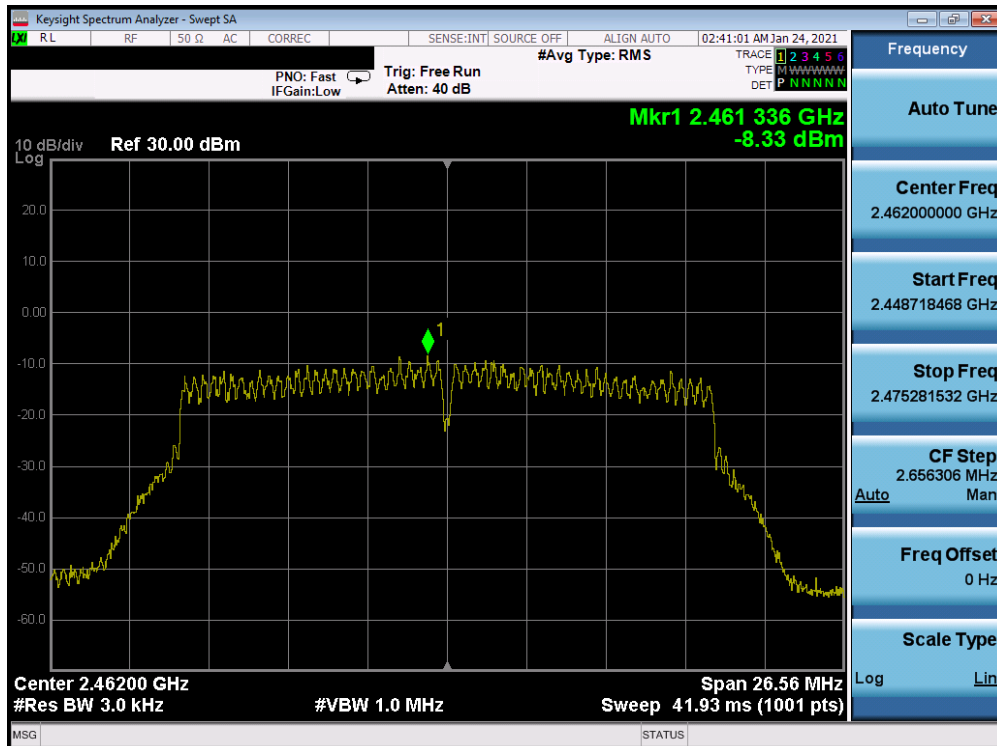


Plot 7-103. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 93 of 345

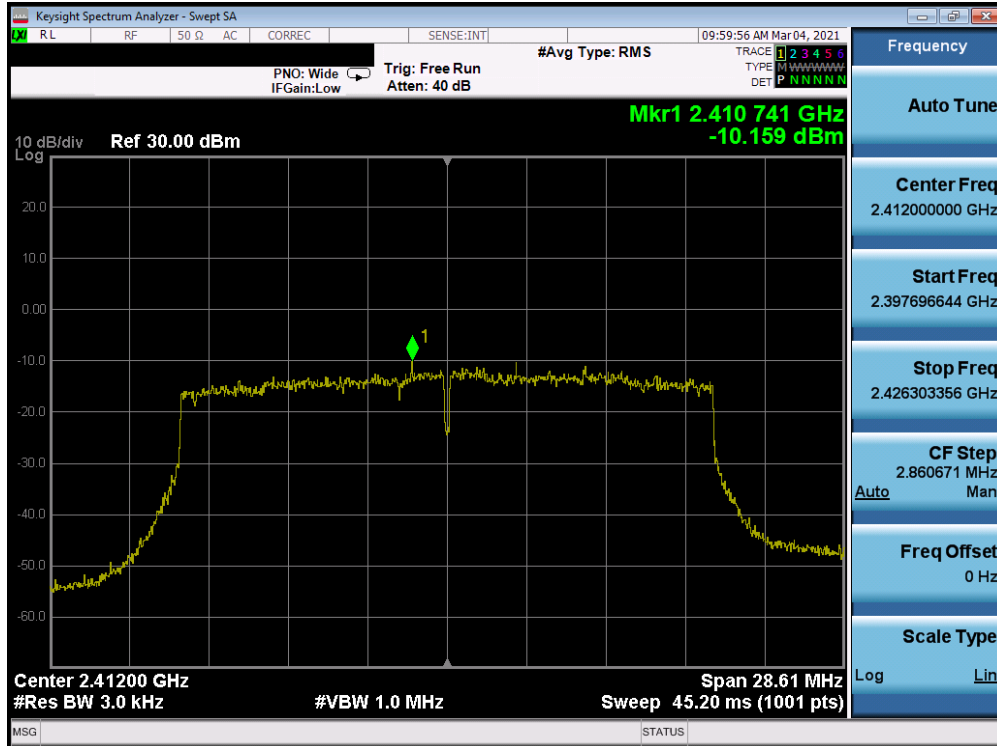


Plot 7-104. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS3

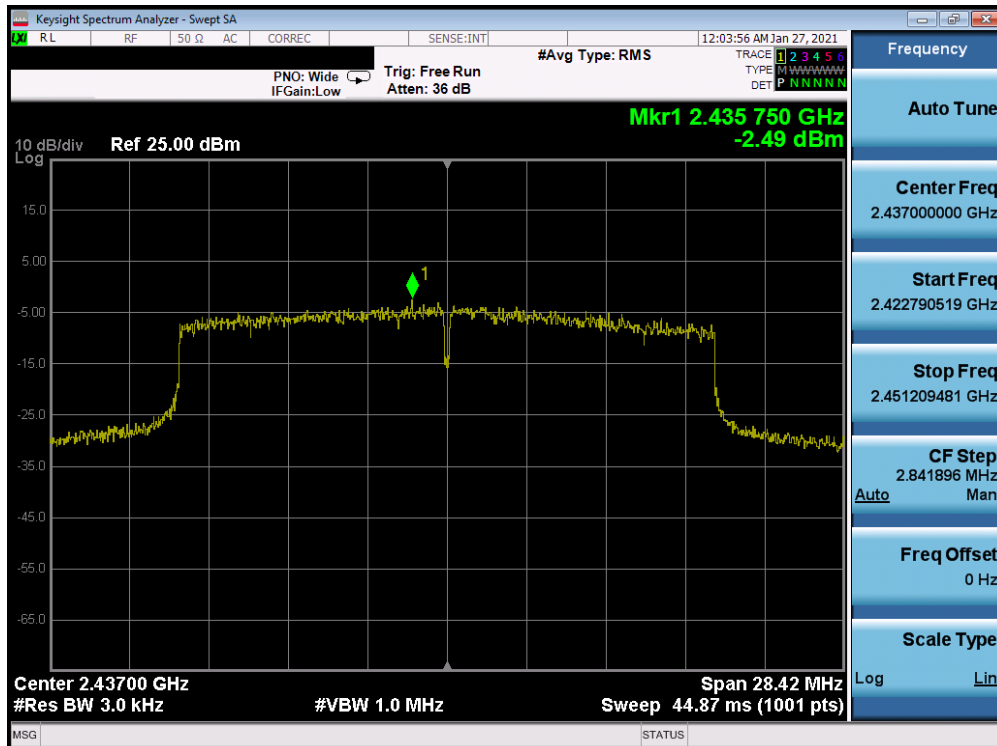


Plot 7-105. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 94 of 345

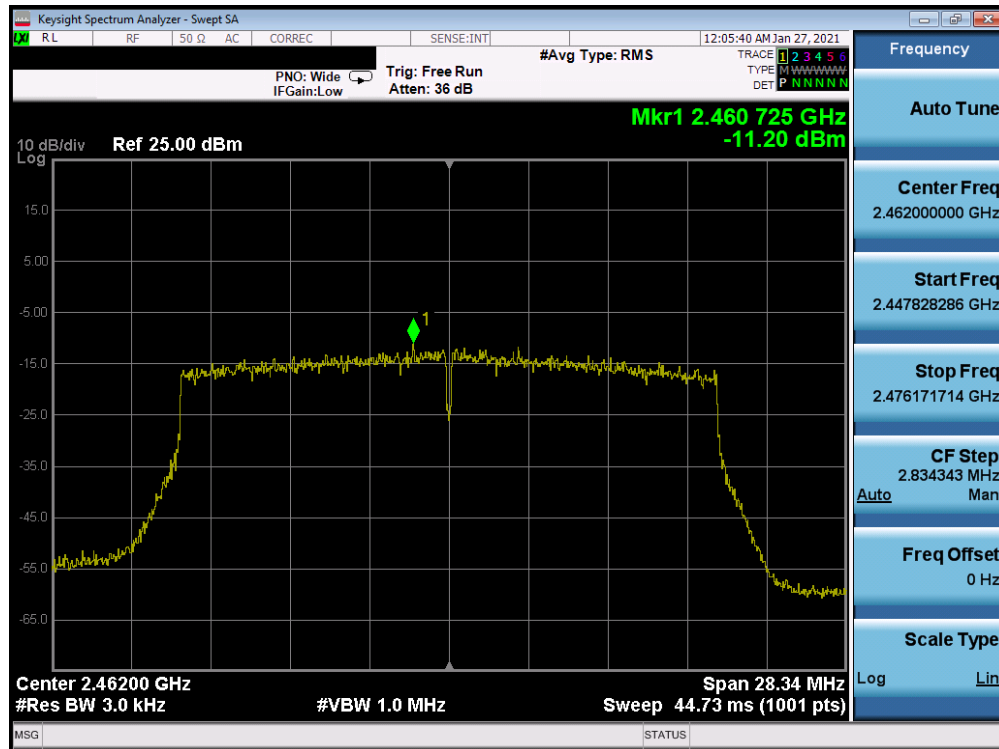


Plot 7-106. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS3



Plot 7-107. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS3

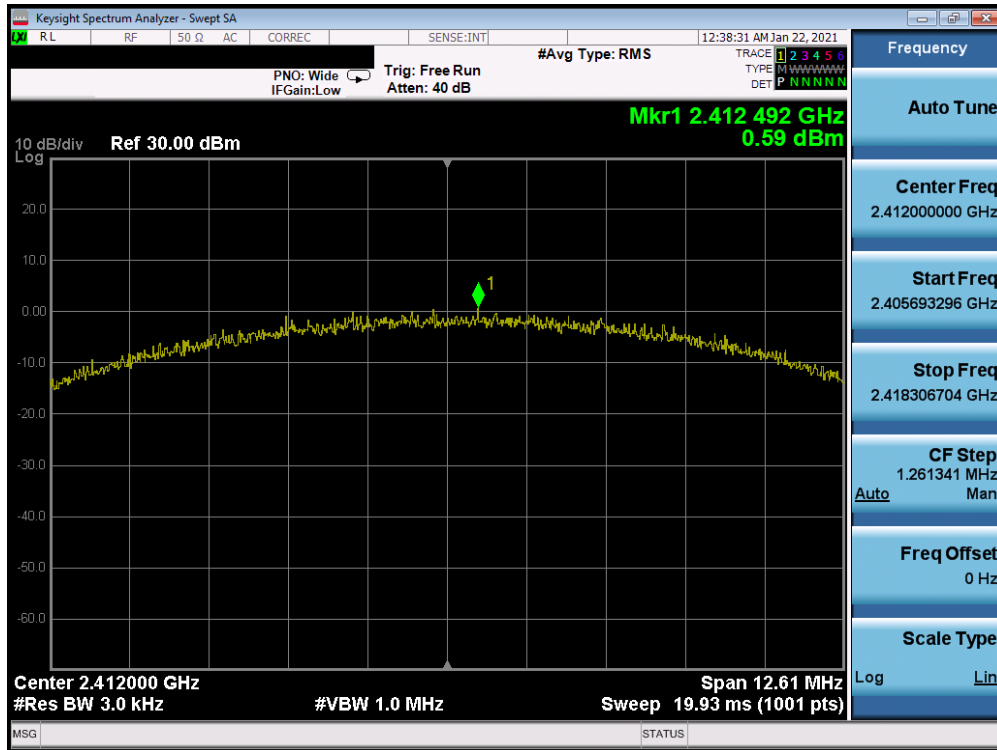
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 95 of 345



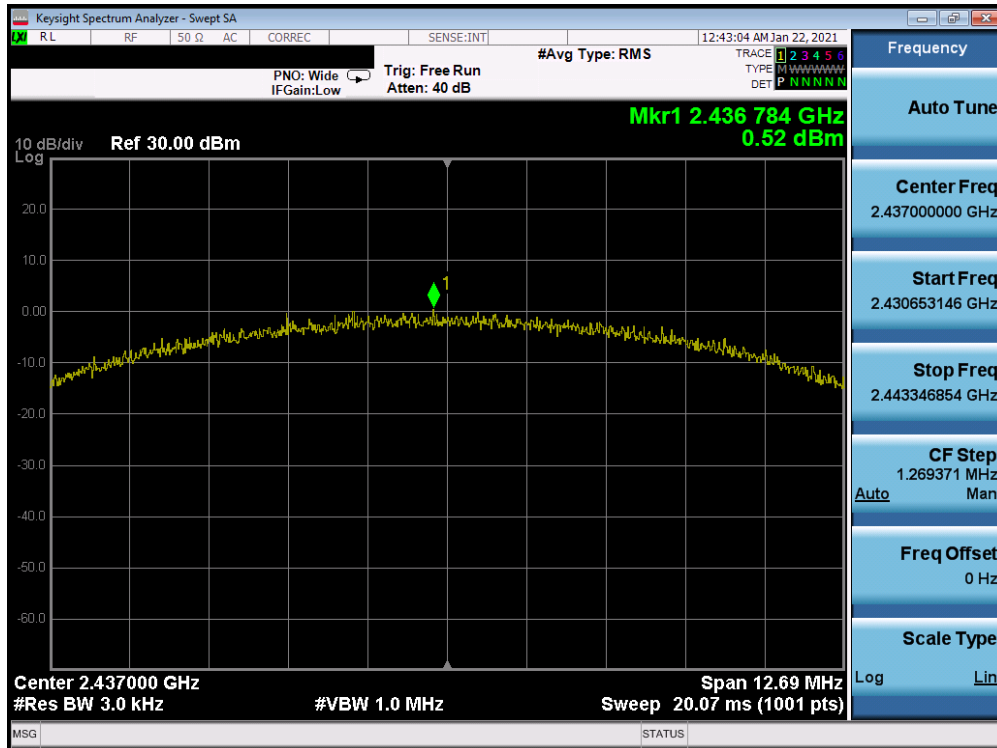
Plot 7-108. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 96 of 345

High Data Rate

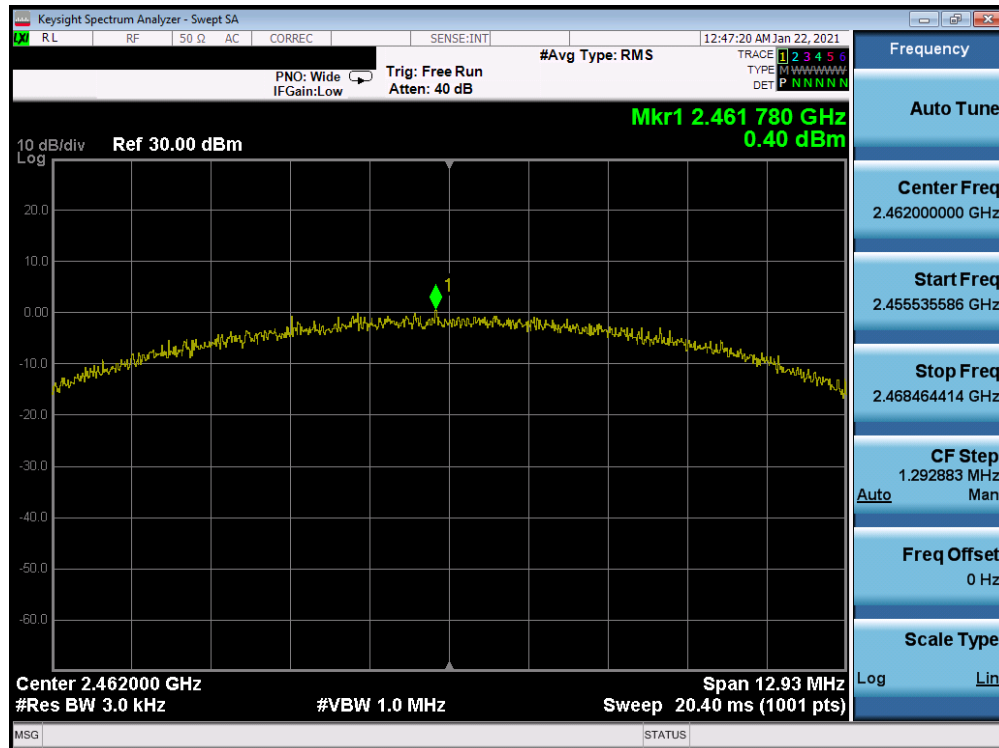


Plot 7-109. Power Spectral Density Plot Antenna 2a (802.11b – Ch. 1) – 11Mbps

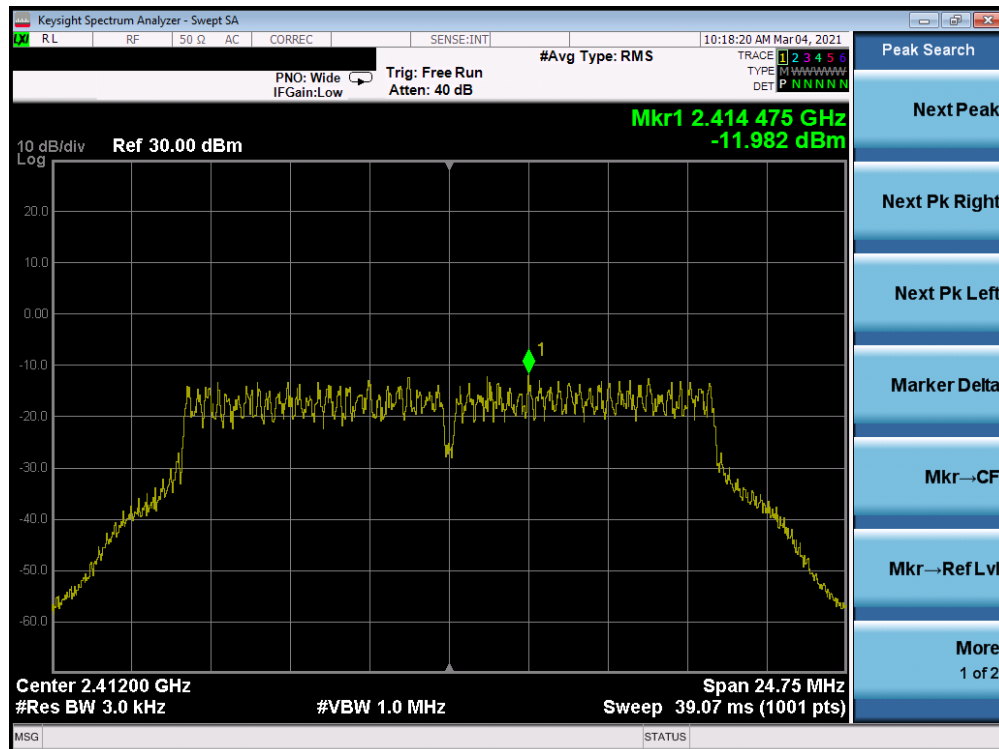


Plot 7-110. Power Spectral Density Plot Antenna 2a (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 97 of 345

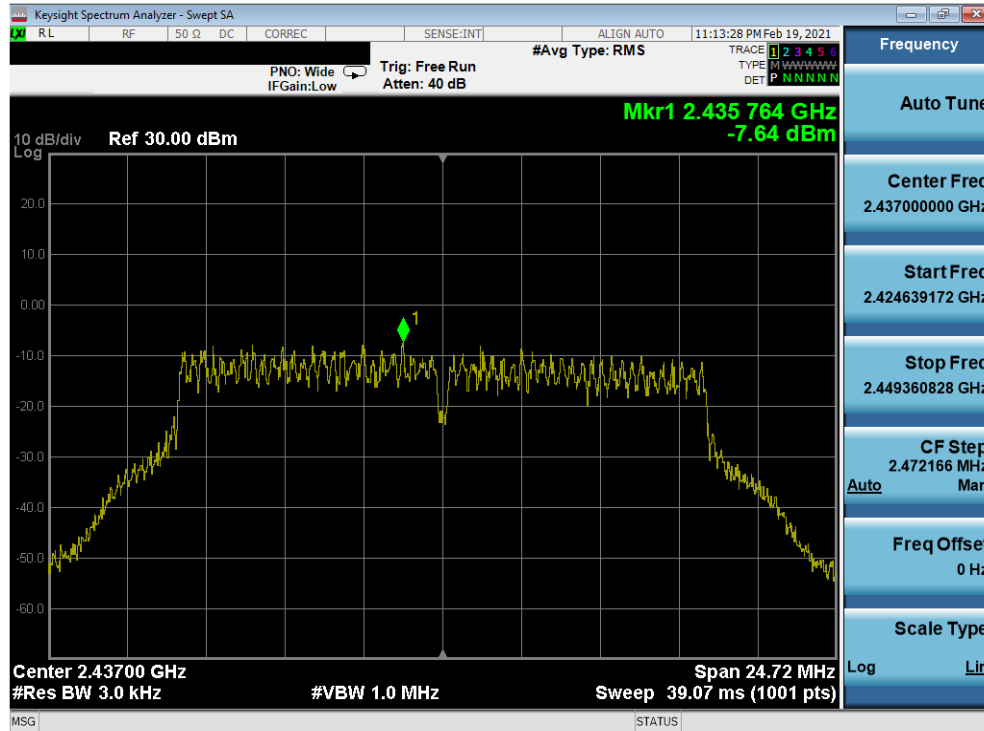


Plot 7-111. Power Spectral Density Plot Antenna 2a (802.11b – Ch. 11) – 11Mbps

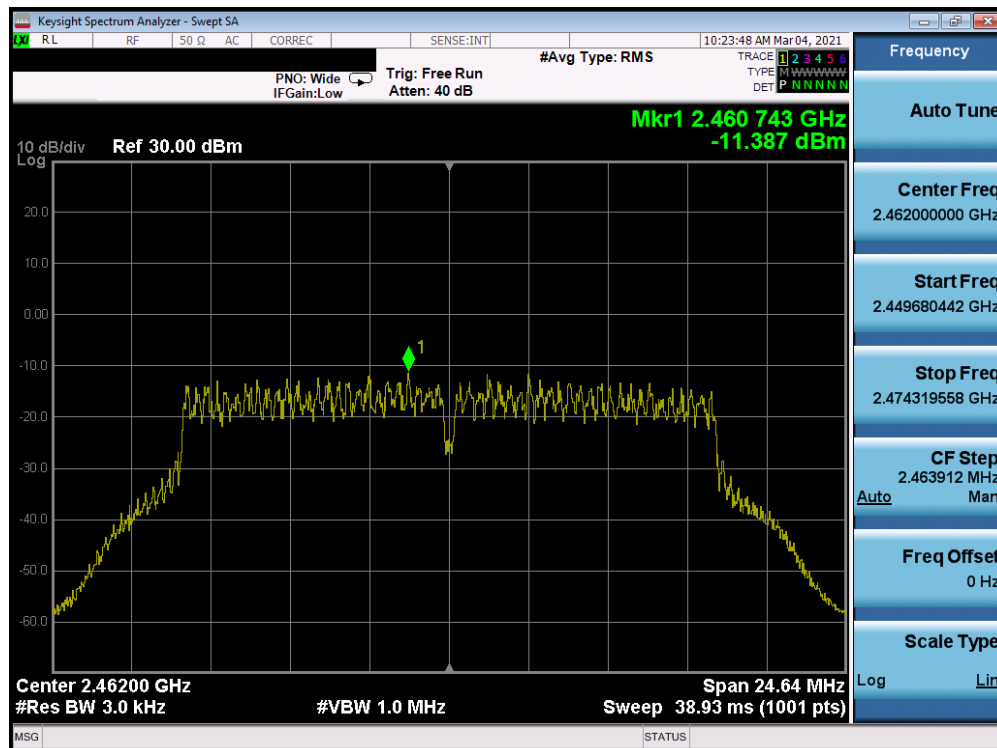


Plot 7-112. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 98 of 345

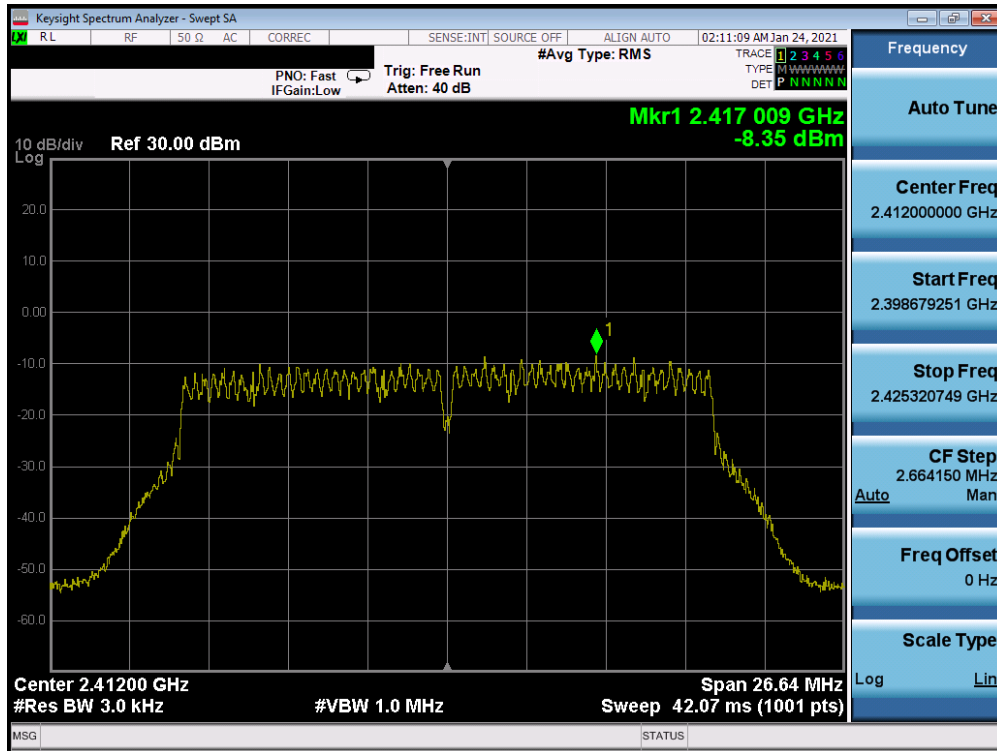


Plot 7-113. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 6) – 54Mbps

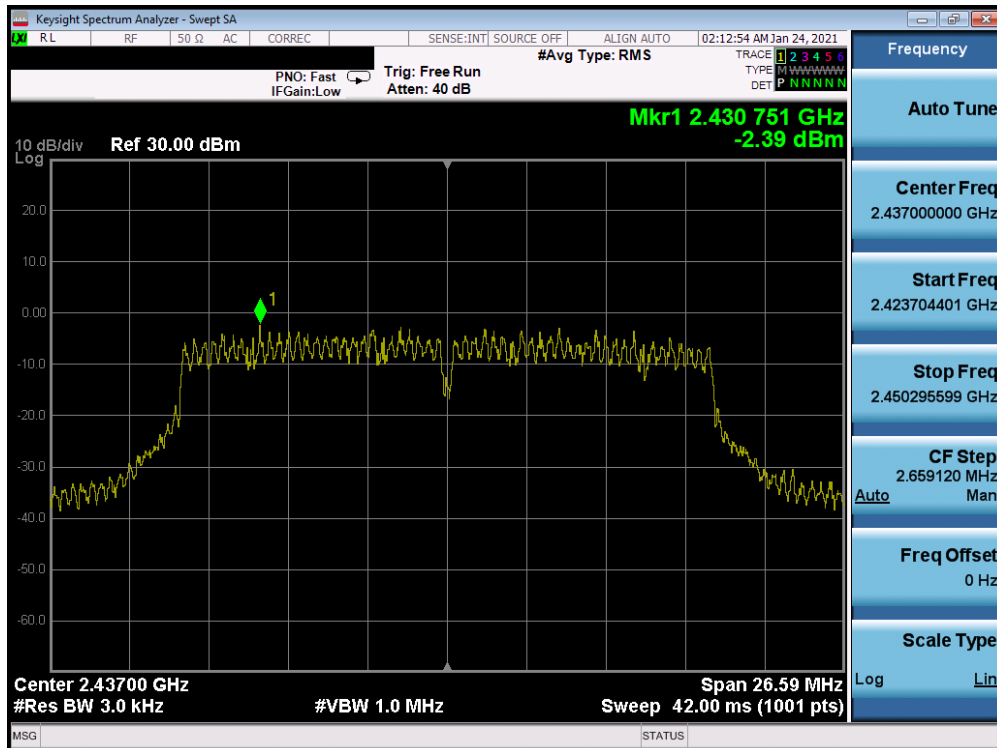


Plot 7-114. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 99 of 345

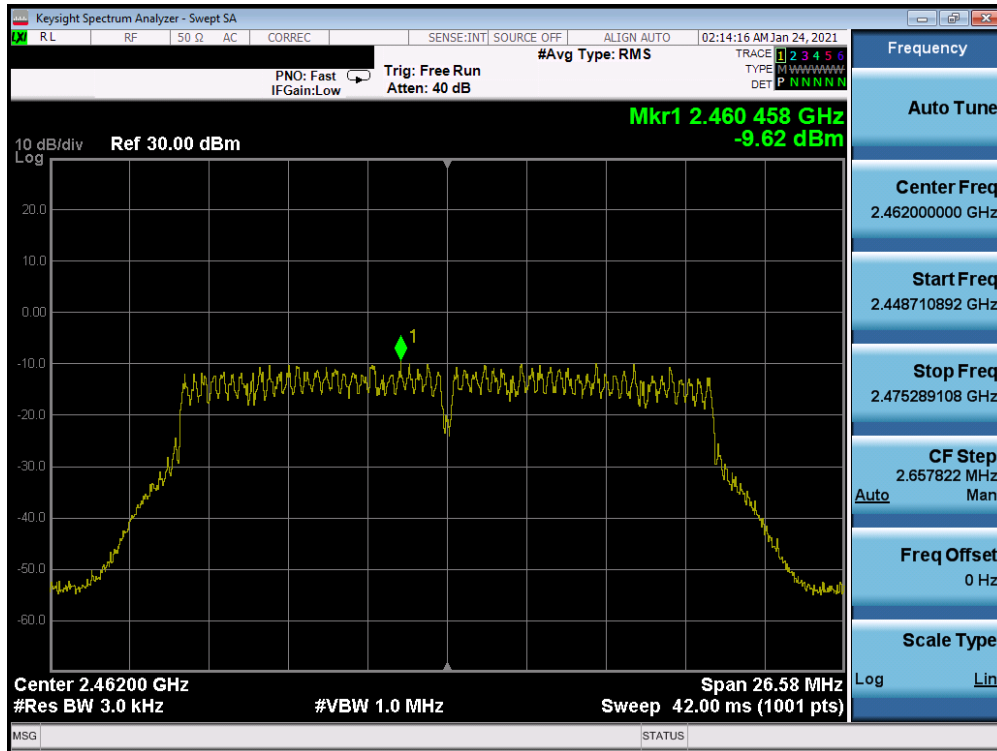


Plot 7-115. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS7

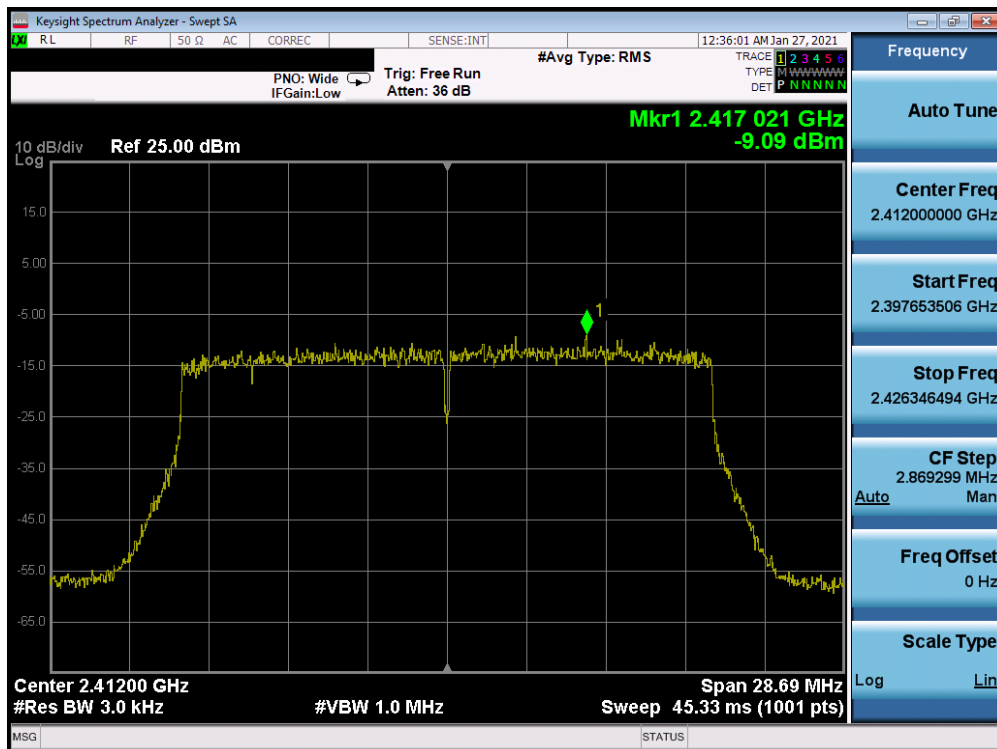


Plot 7-116. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS7

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 100 of 345

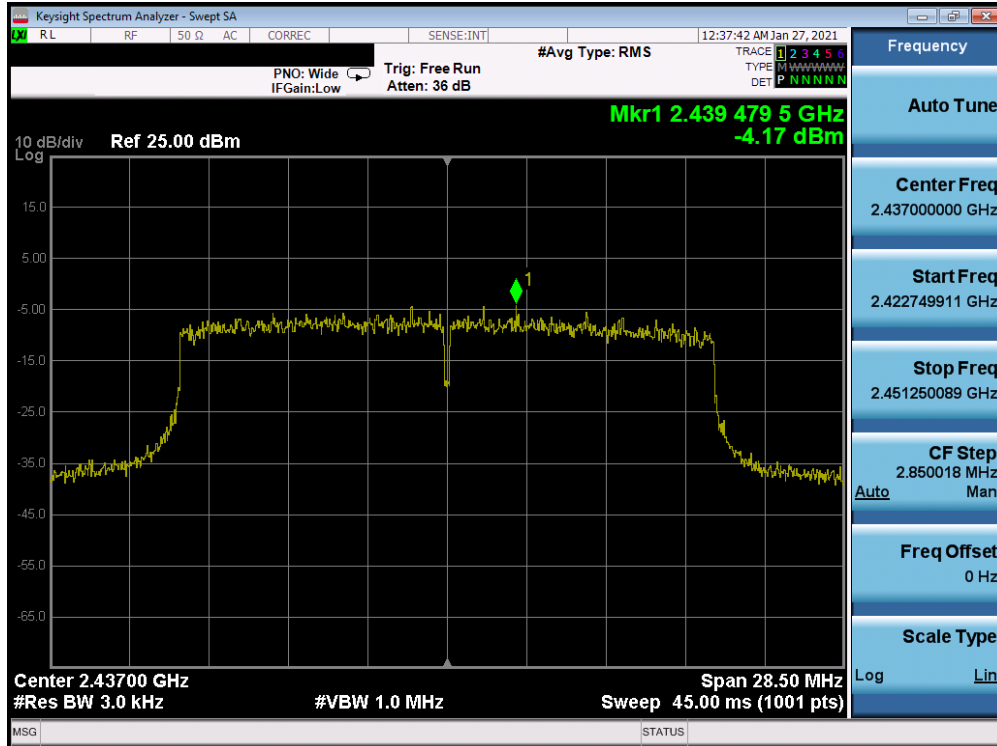


Plot 7-117. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS7

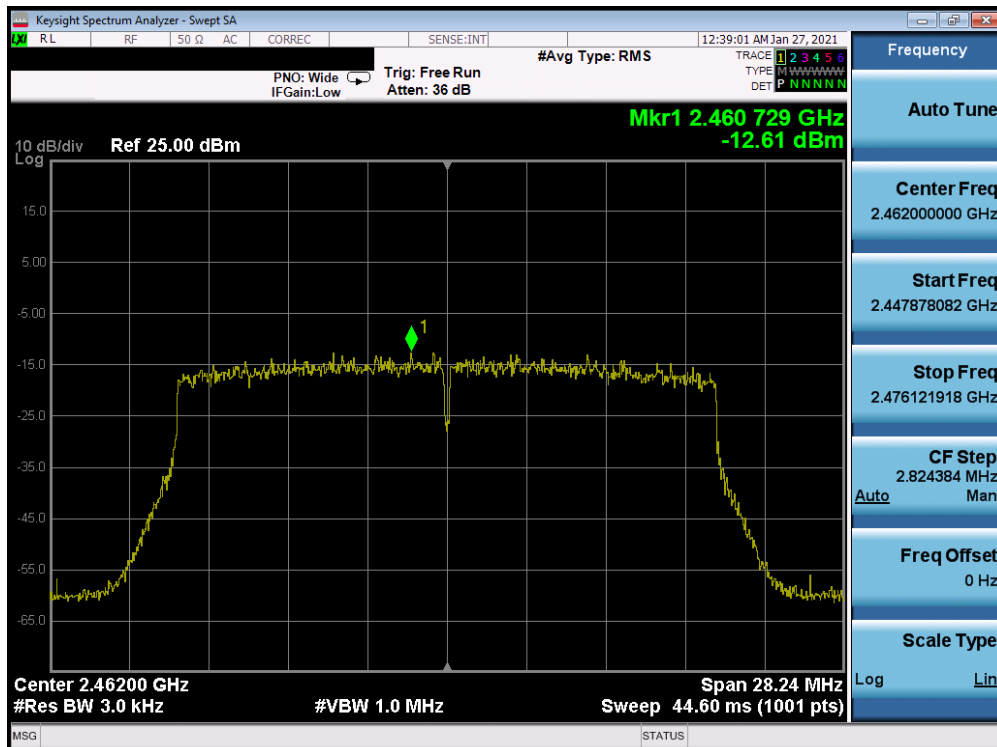


Plot 7-118. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 101 of 345



Plot 7-119. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-120. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 102 of 345

CDD Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 4a Power Spectral Density [dBm / 3kHz]	Antenna 2a Power Spectral Density [dBm / 3kHz]	Summed CDD Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	6	-11.08	-10.55	-7.80	8.00	-15.80	Pass
2437	6	g	6	-6.15	-6.24	-3.18	8.00	-11.18	Pass
2462	11	g	6	-10.70	-10.30	-7.49	8.00	-15.49	Pass
2412	1	n	13/14.4 (MCS8)	-8.54	-8.00	-5.25	8.00	-13.25	Pass
2437	6	n	13/14.4 (MCS8)	-0.52	-1.23	2.15	8.00	-5.85	Pass
2462	11	n	13/14.4 (MCS8)	-8.41	-8.93	-5.65	8.00	-13.65	Pass
2412	1	ax-SU	16/17.2 (MCS0)	-8.03	-8.59	-5.29	8.00	-13.29	Pass
2437	6	ax-SU	16/17.2 (MCS0)	-1.75	-2.49	0.91	8.00	-7.09	Pass
2462	11	ax-SU	16/17.2 (MCS0)	-10.98	-11.45	-8.20	8.00	-16.20	Pass

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

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 4a Power Spectral Density [dBm / 3kHz]	Antenna 2a Power Spectral Density [dBm / 3kHz]	Summed CDD Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	18	-13.60	-12.81	-10.18	8.00	-18.18	Pass
2437	6	g	18	-6.30	-6.20	-3.24	8.00	-11.24	Pass
2462	11	g	18	-11.48	-12.57	-8.98	8.00	-16.98	Pass
2412	1	n	52/57.8 (MCS11)	-9.66	-9.41	-6.52	8.00	-14.52	Pass
2437	6	n	52/57.8 (MCS11)	-3.12	-2.02	0.48	8.00	-7.52	Pass
2462	11	n	52/57.8 (MCS11)	-9.56	-9.05	-6.29	8.00	-14.29	Pass
2412	1	ax-SU	66/68.8 (MCS3)	-9.57	-10.20	-6.86	8.00	-14.86	Pass
2437	6	ax-SU	66/68.8 (MCS3)	-4.00	-4.69	-1.32	8.00	-9.32	Pass
2462	11	ax-SU	66/68.8 (MCS3)	-10.85	-12.05	-8.40	8.00	-16.40	Pass

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

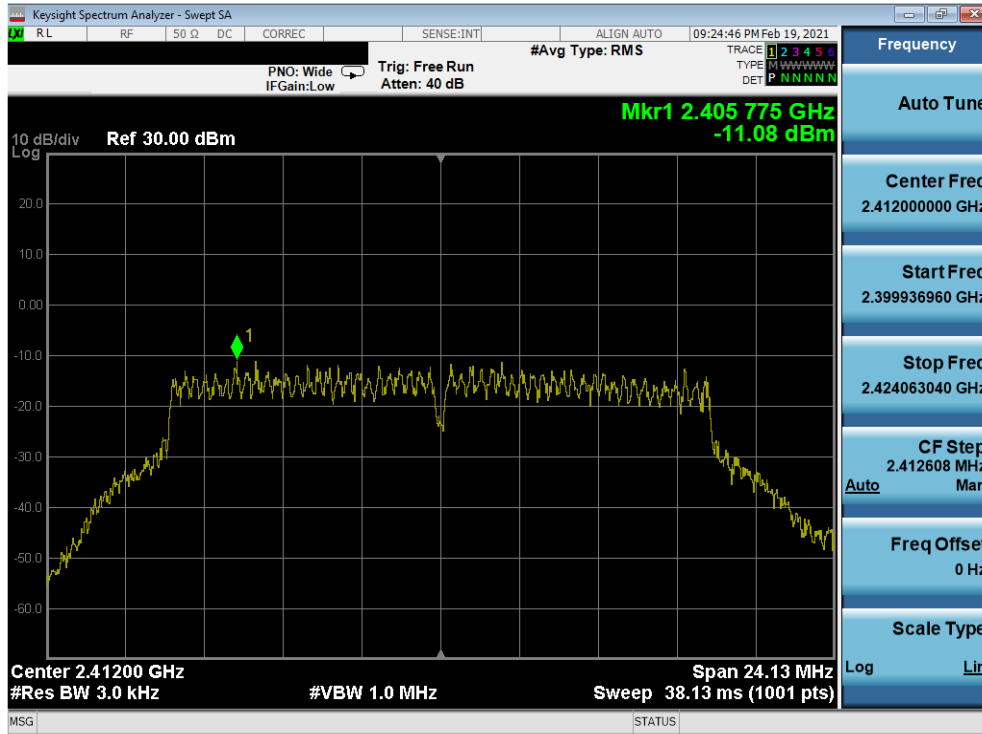
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 103 of 345

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 4a Spectral Density [dBm / 3kHz]	Antenna 2a Power Spectral Density [dBm / 3kHz]	Summed CDD Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	54	-12.53	-12.56	-9.53	8.00	-17.53	Pass
2437	6	g	54	-8.53	-7.24	-4.83	8.00	-12.83	Pass
2462	11	g	54	-11.41	-11.54	-8.46	8.00	-16.46	Pass
2412	1	n	130/144.4 (MCS15)	-7.56	-8.30	-4.90	8.00	-12.90	Pass
2437	6	n	130/144.4 (MCS15)	-3.37	-2.60	0.04	8.00	-7.96	Pass
2462	11	n	130/144.4 (MCS15)	-9.60	-9.11	-6.34	8.00	-14.34	Pass
2412	1	ax-SU	130/137.6 (MCS5)	-10.35	-10.86	-7.59	8.00	-15.59	Pass
2437	6	ax-SU	130/137.6 (MCS5)	-5.64	-5.83	-2.72	8.00	-10.72	Pass
2462	11	ax-SU	130/137.6 (MCS5)	-12.85	-12.19	-9.50	8.00	-17.50	Pass

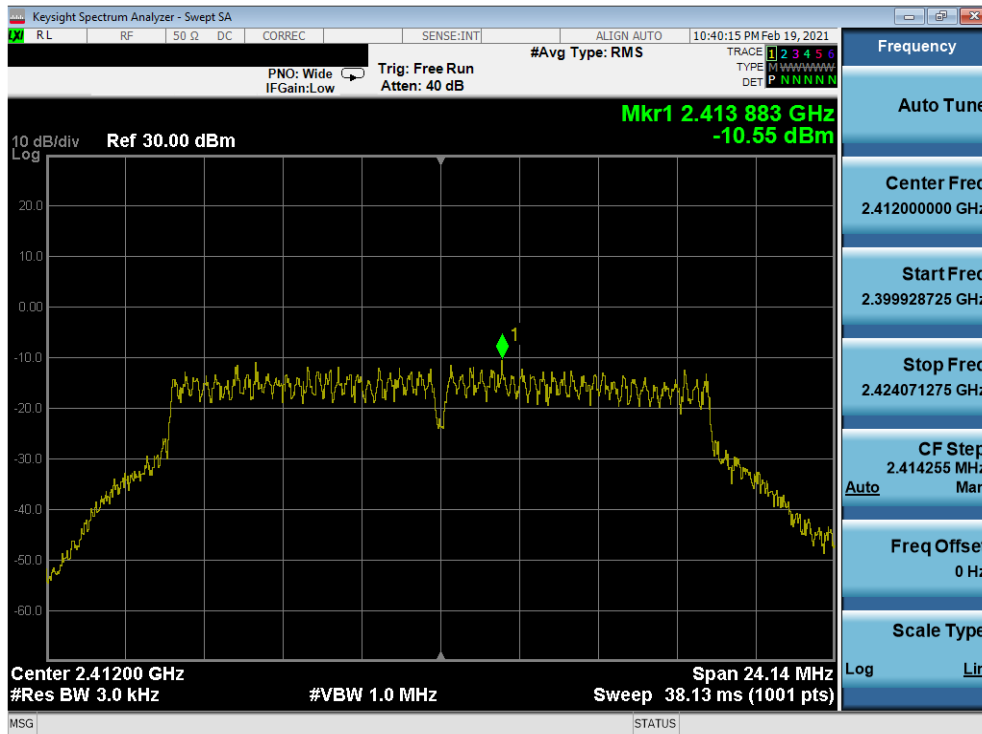
Table 7-46.CDD Conducted Power Density Measurements (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device
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Low Data Rate

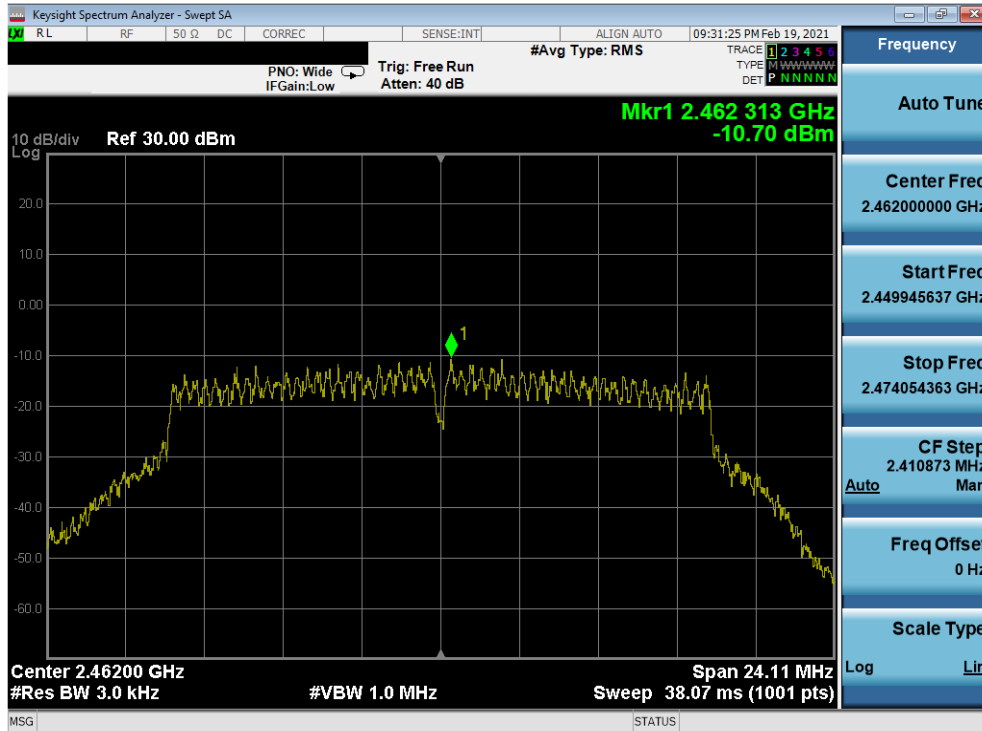


Plot 7-121. Power Spectral Density Plot CDD Antenna 4a (802.11g – Ch. 1) – 6Mbps

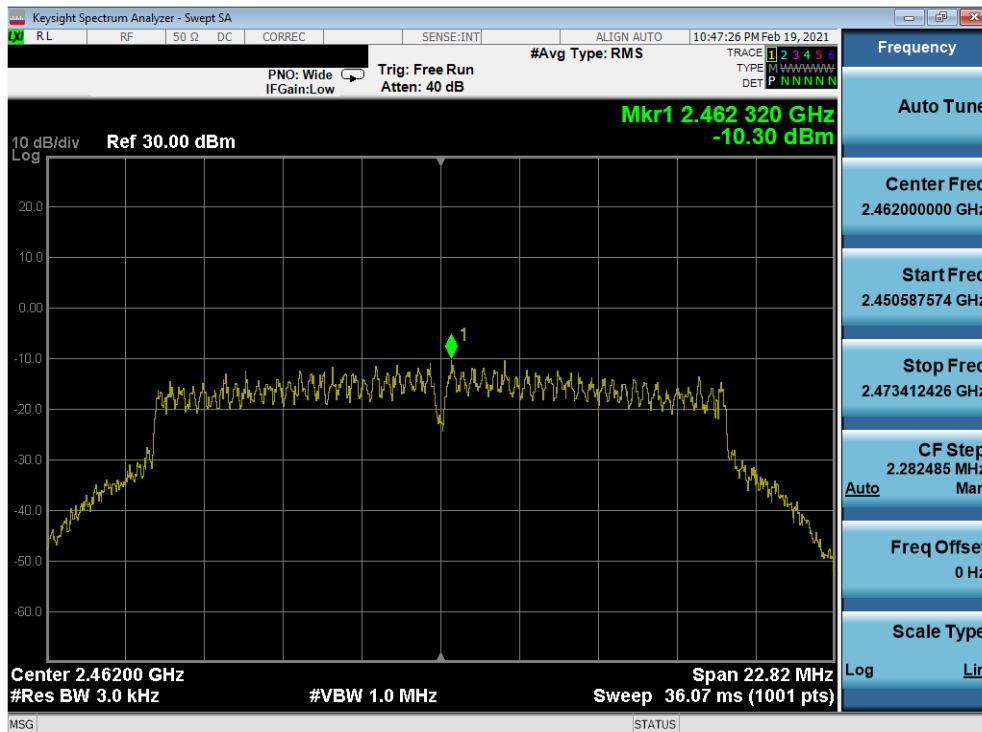


Plot 7-122. Power Spectral Density Plot CDD Antenna 2a (802.11g – Ch. 1) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 105 of 345

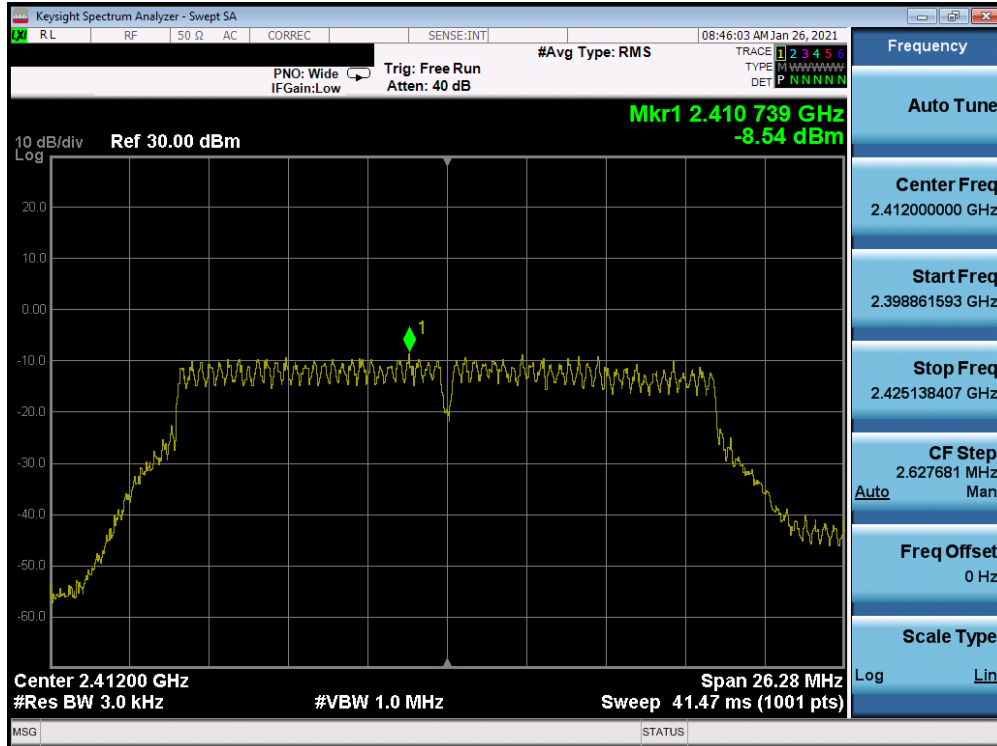


Plot 7-125. Power Spectral Density Plot CDD Antenna 4a (802.11g – Ch. 11) – 6Mbps

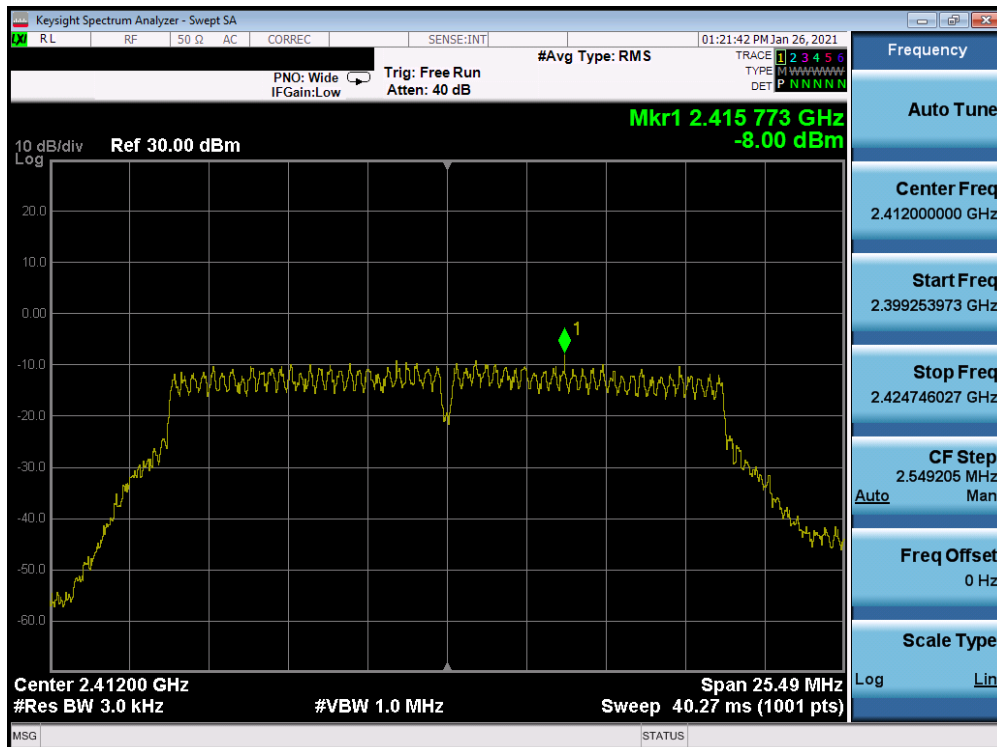


Plot 7-126. Power Spectral Density Plot CDD Antenna 2a (802.11g – Ch. 11) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 107 of 345

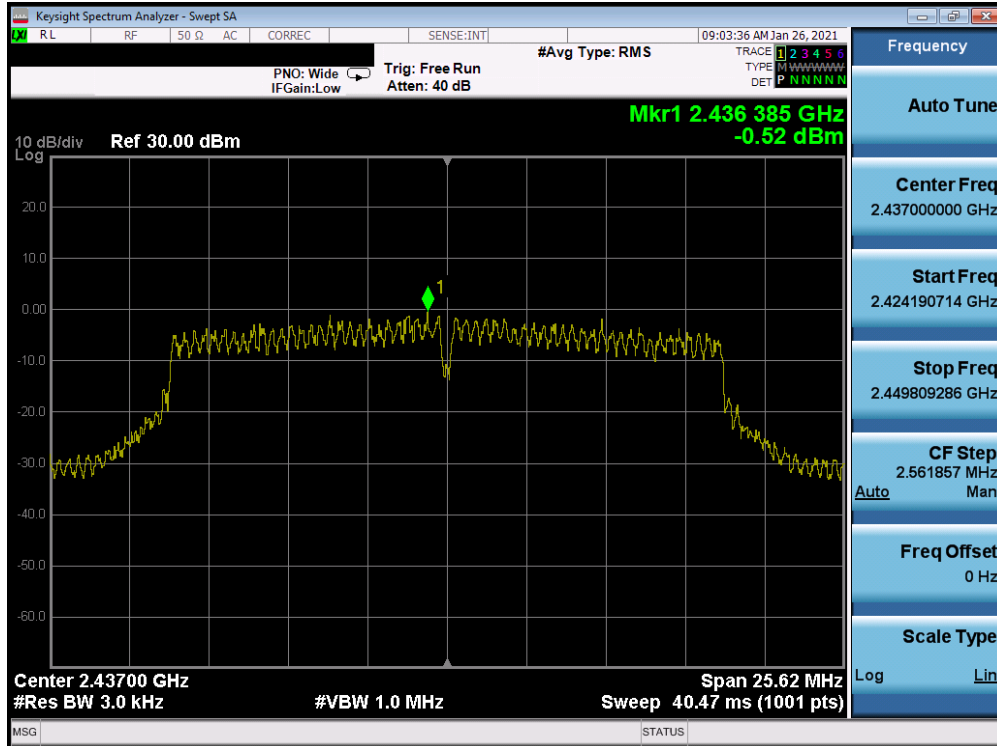


Plot 7-127. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 1) – MCS8

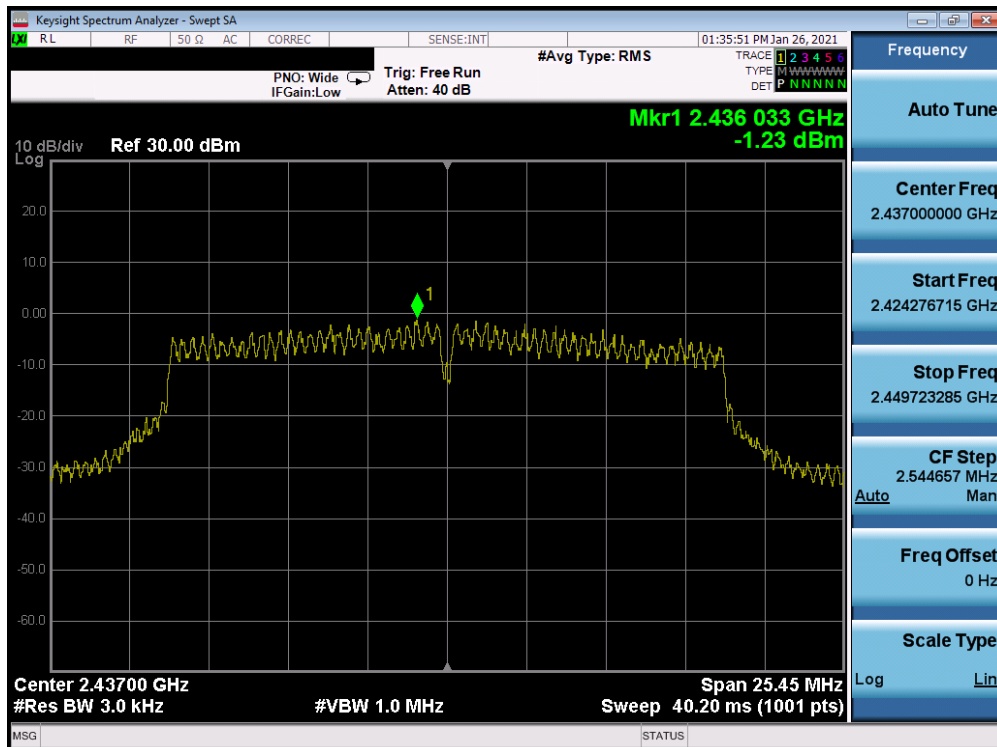


Plot 7-128. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS8

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 108 of 345

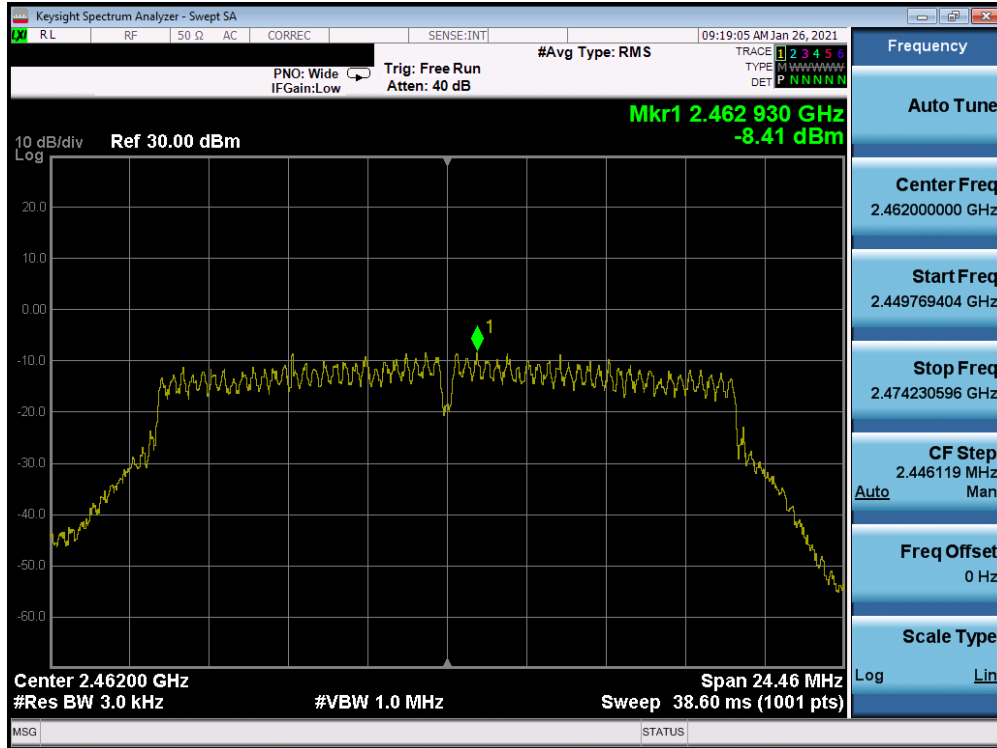


Plot 7-129. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 6) – MCS8

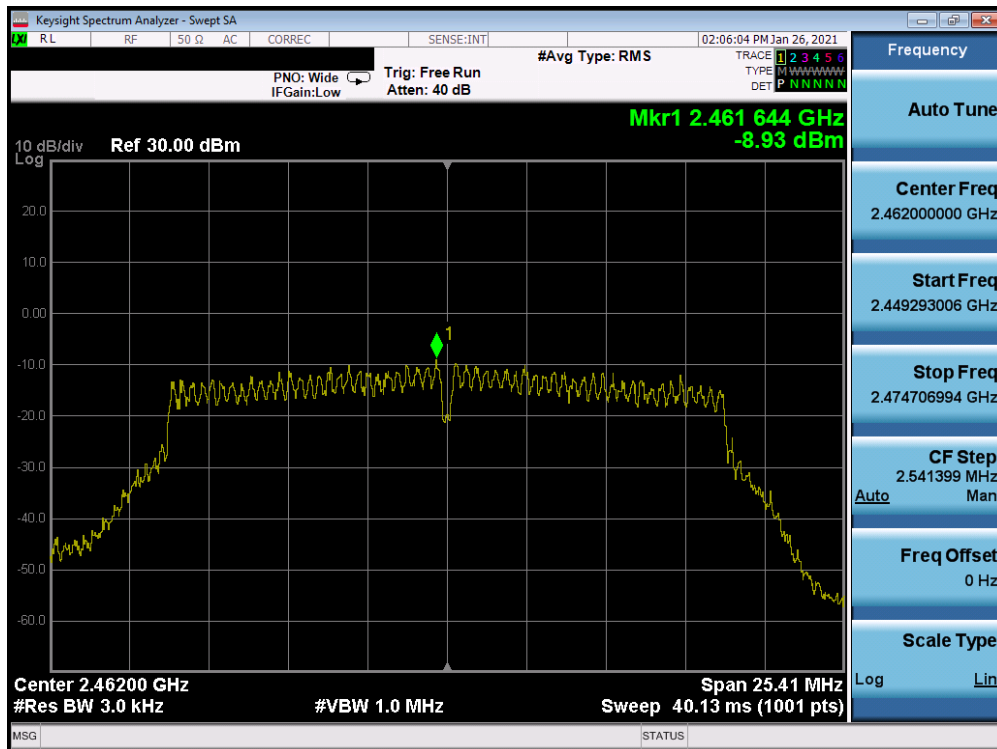


Plot 7-130. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS8

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 109 of 345

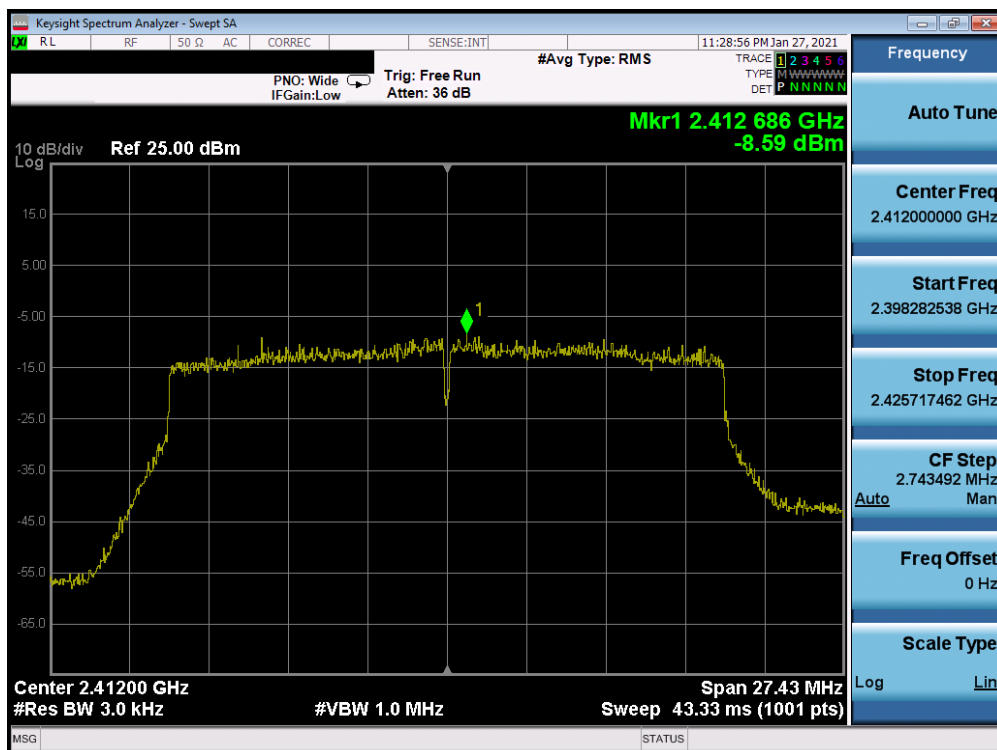
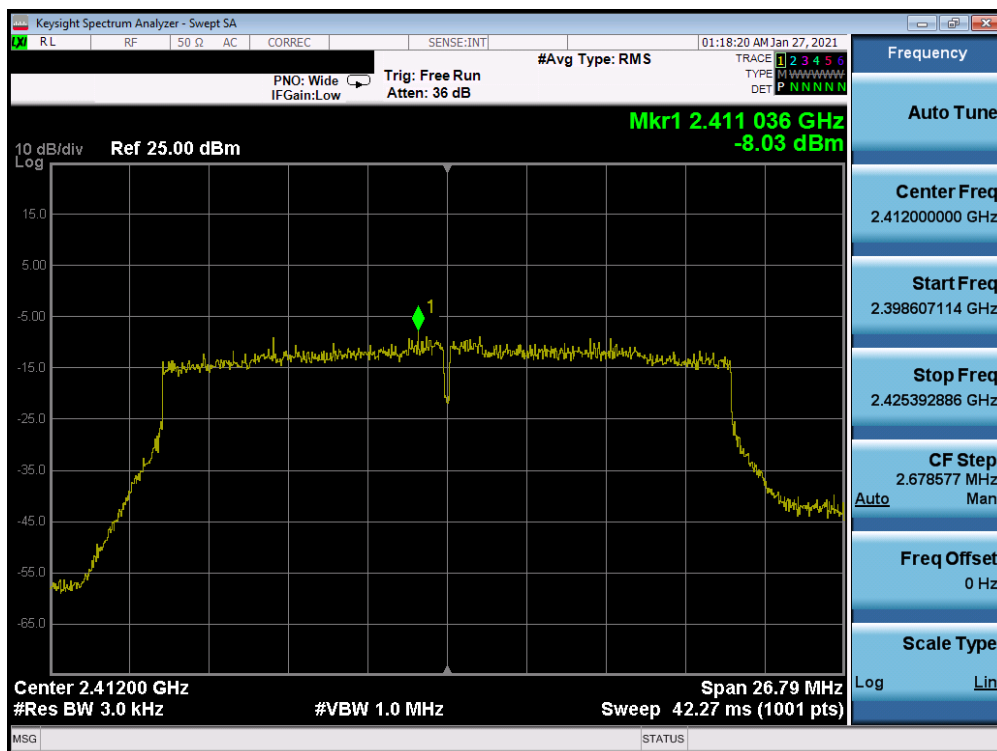


Plot 7-131. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 11) – MCS8

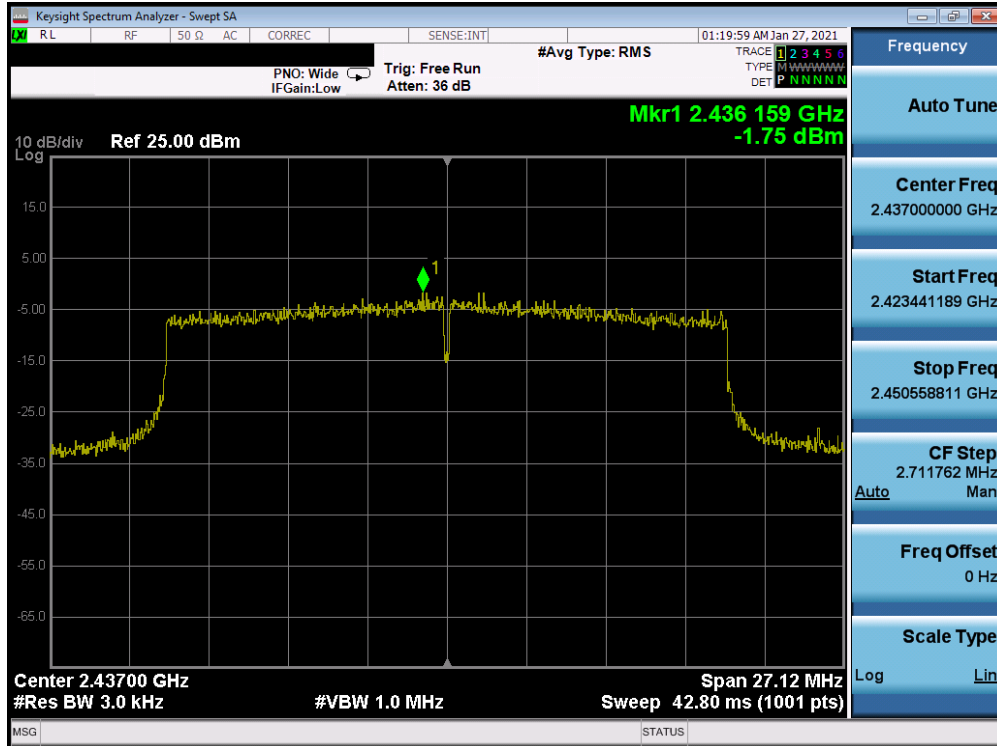


Plot 7-132. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS8

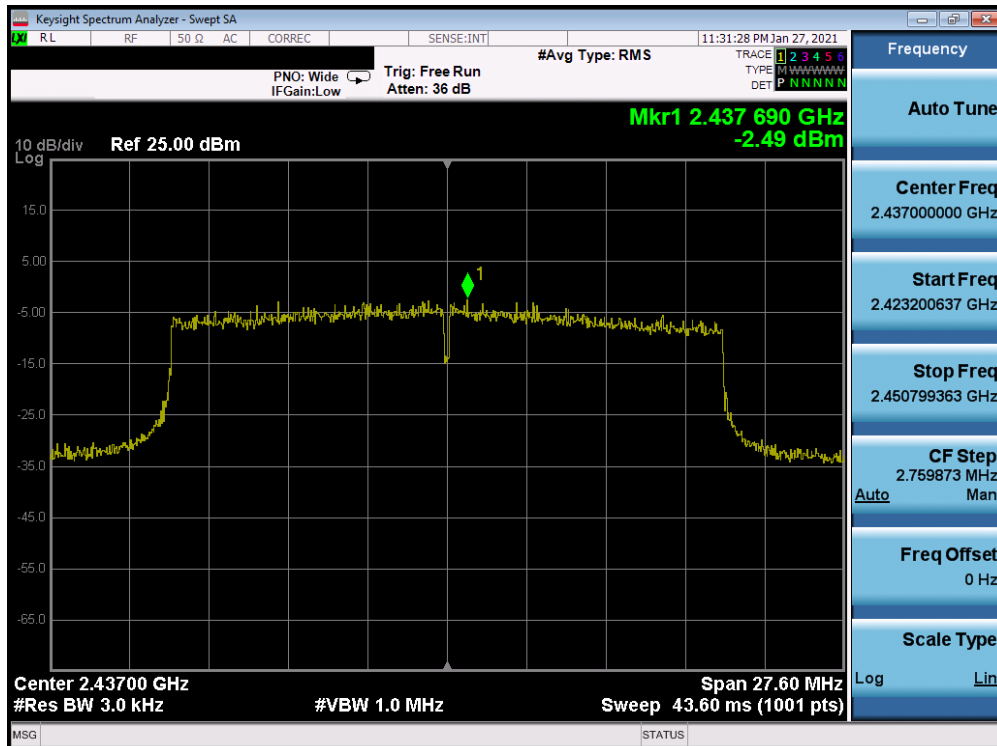
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 110 of 345



FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 111 of 345	

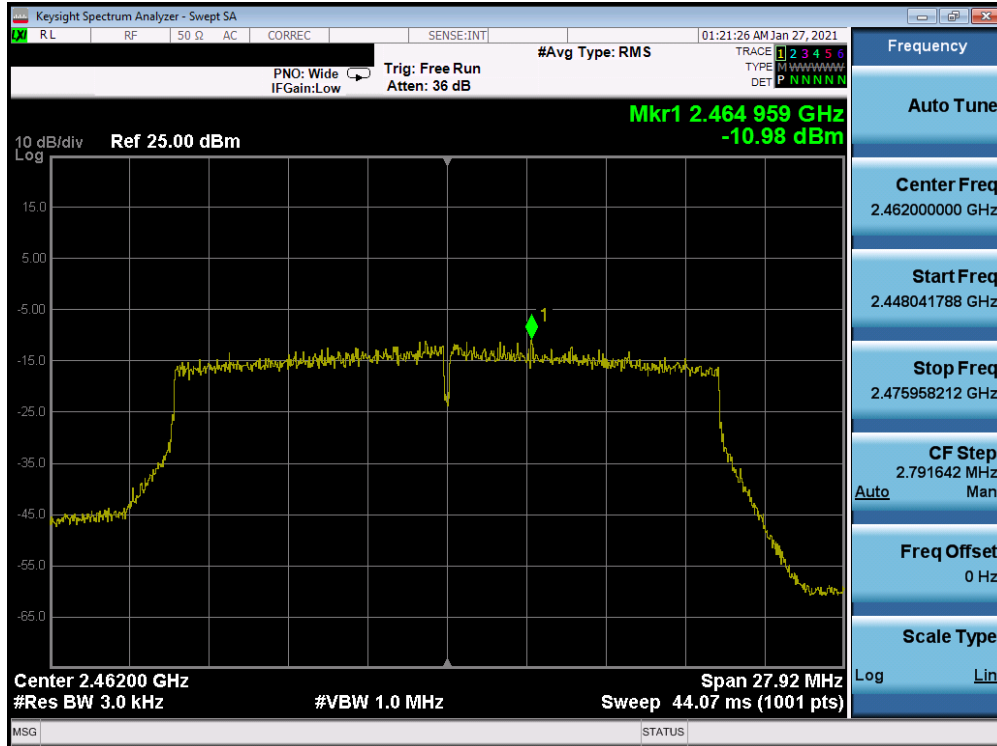


Plot 7-135. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS0

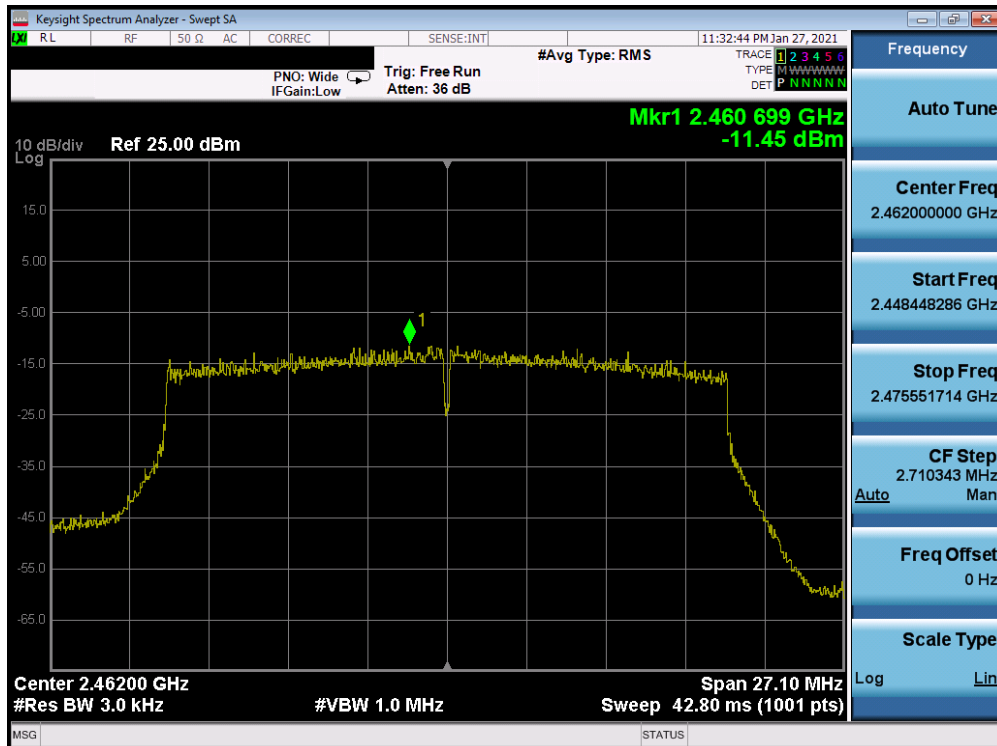


Plot 7-136. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 112 of 345



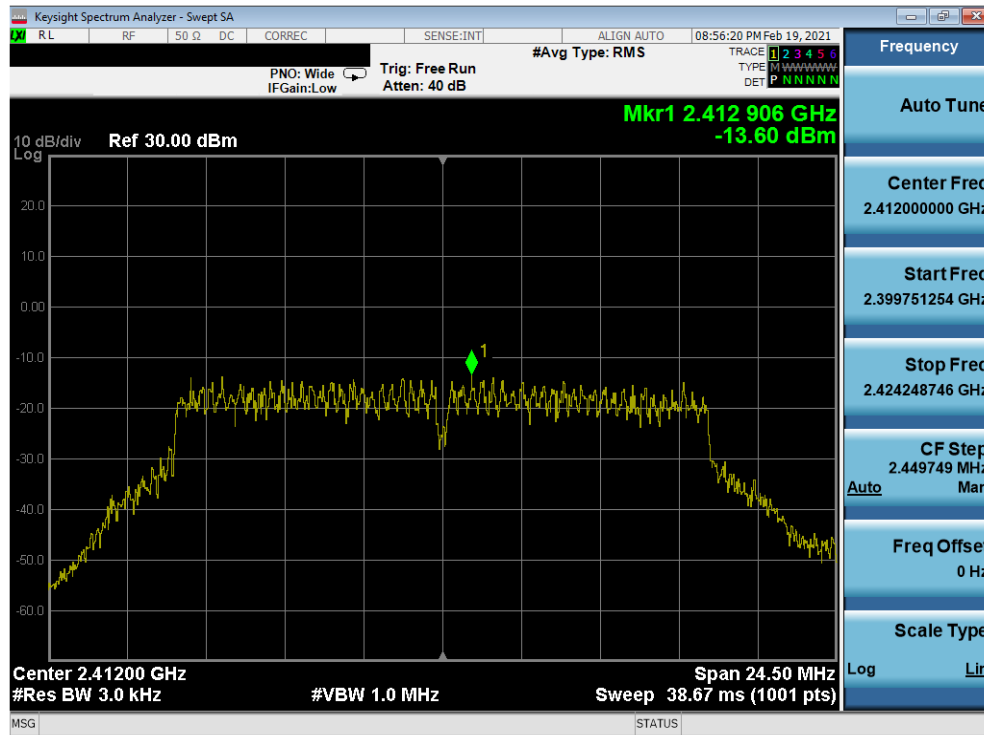
Plot 7-137. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS0



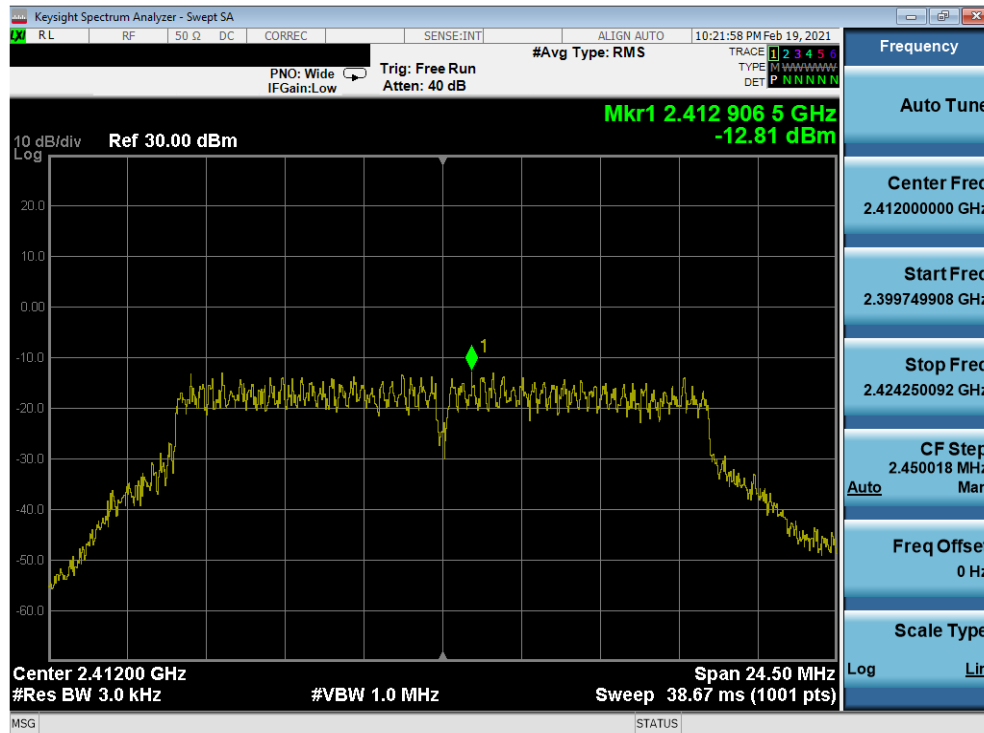
Plot 7-138. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 113 of 345

Mid Data Rate

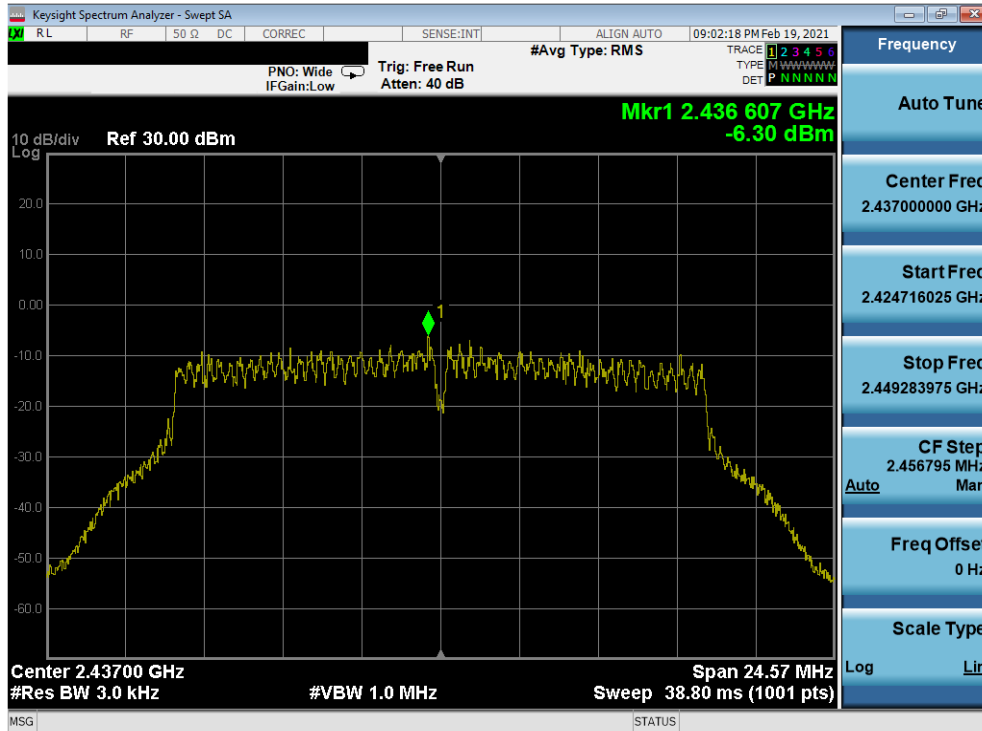


Plot 7-139. Power Spectral Density Plot CDD Antenna 4a (802.11g – Ch. 1) – 18Mbps

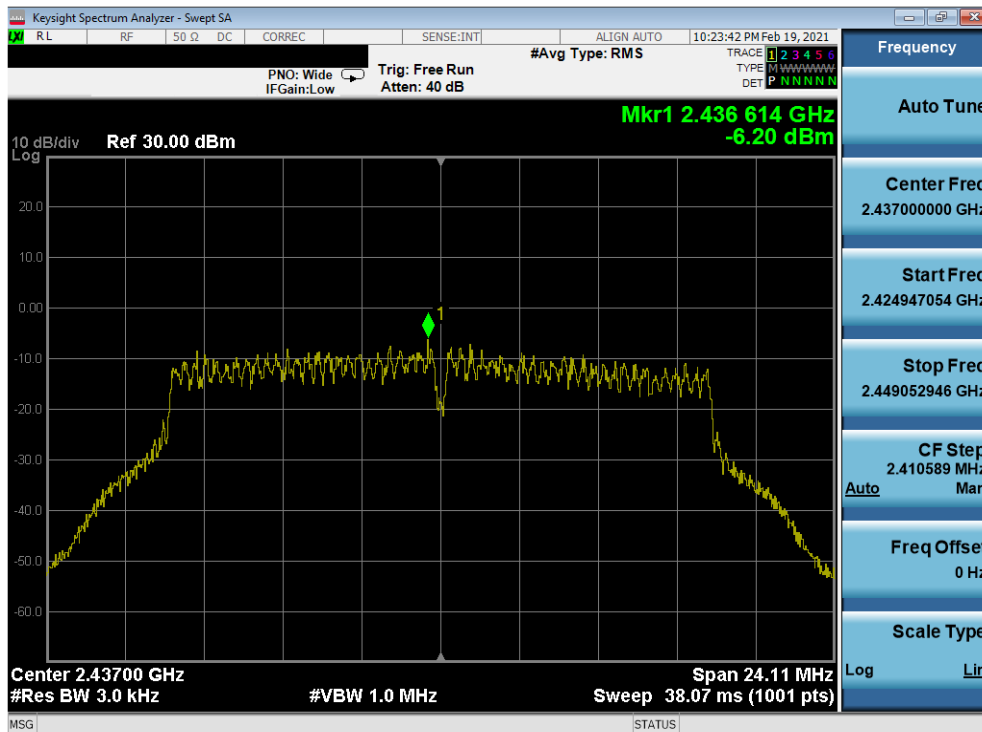


Plot 7-140. Power Spectral Density Plot CDD Antenna 2a (802.11g – Ch. 1) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 114 of 345

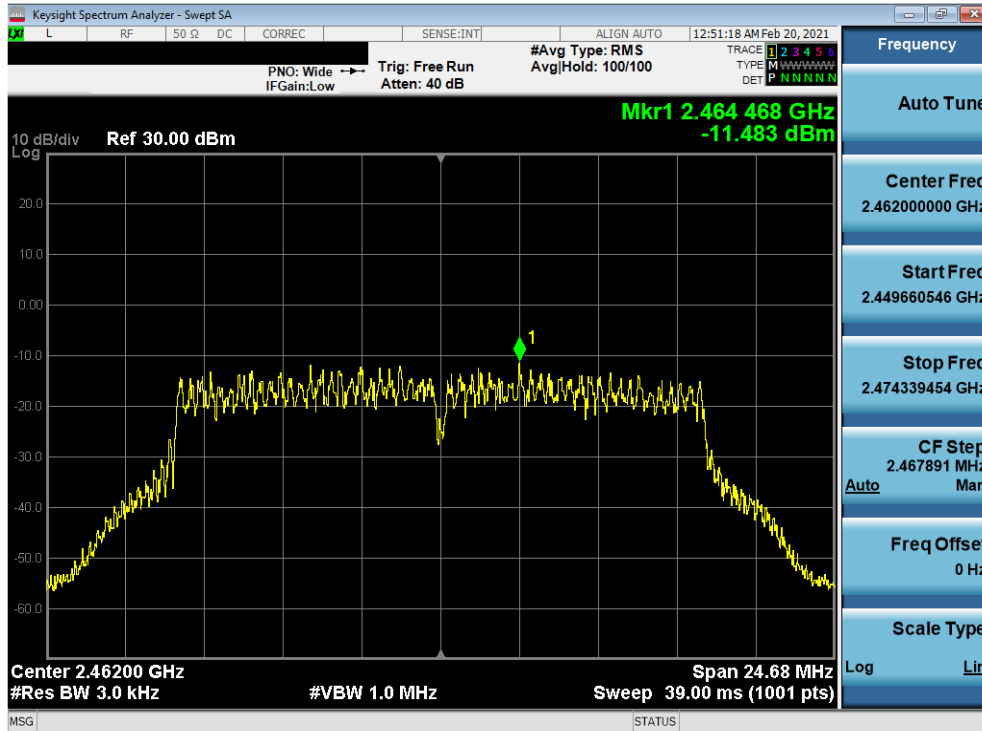


Plot 7-141. Power Spectral Density Plot CDD Antenna 4a (802.11g – Ch. 6) – 18Mbps

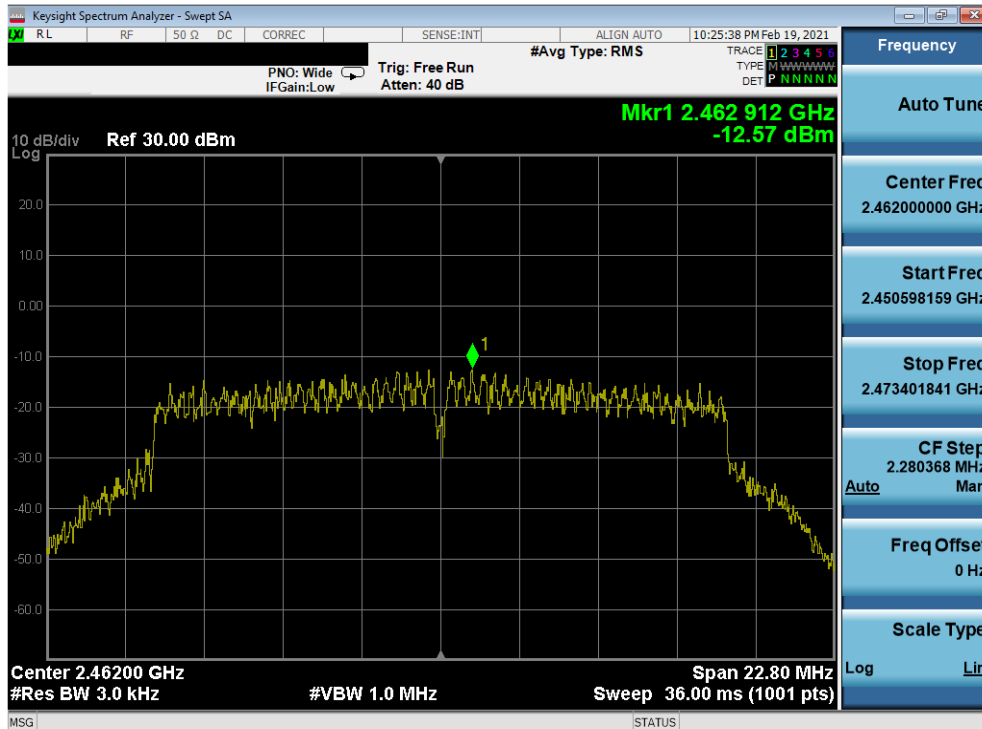


Plot 7-142. Power Spectral Density Plot CDD Antenna 2a (802.11g – Ch. 6) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 115 of 345

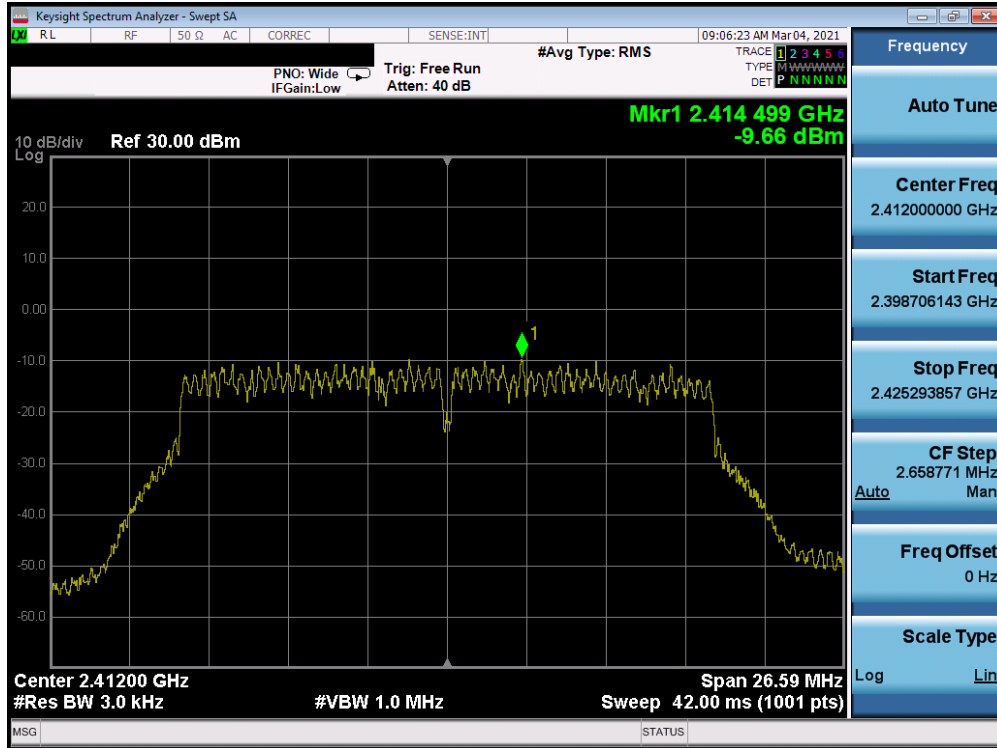


Plot 7-143. Power Spectral Density Plot CDD Antenna 4a (802.11g – Ch. 11) – 18Mbps

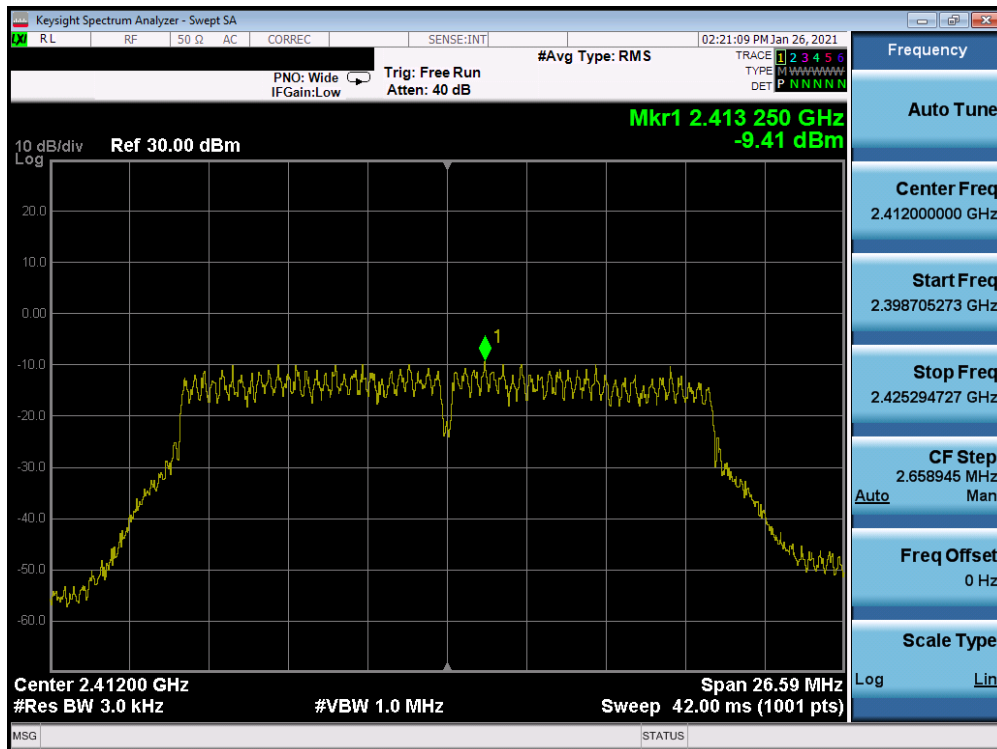


Plot 7-144. Power Spectral Density Plot CDD Antenna 2a (802.11g – Ch. 11) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 116 of 345

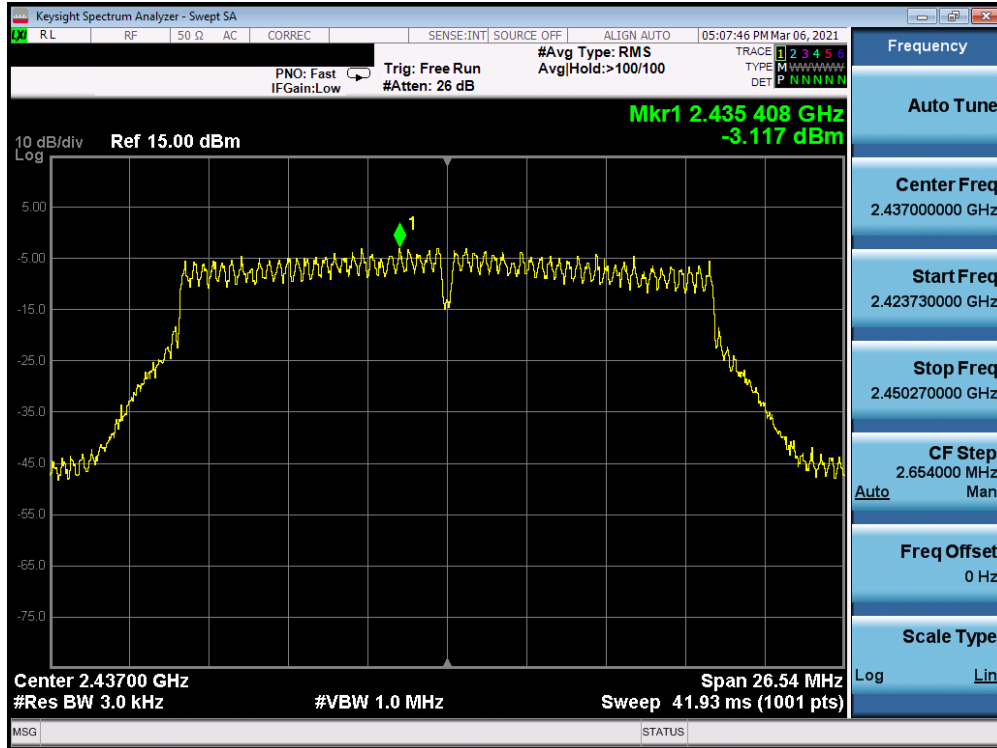


Plot 7-145. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 1) – MCS11

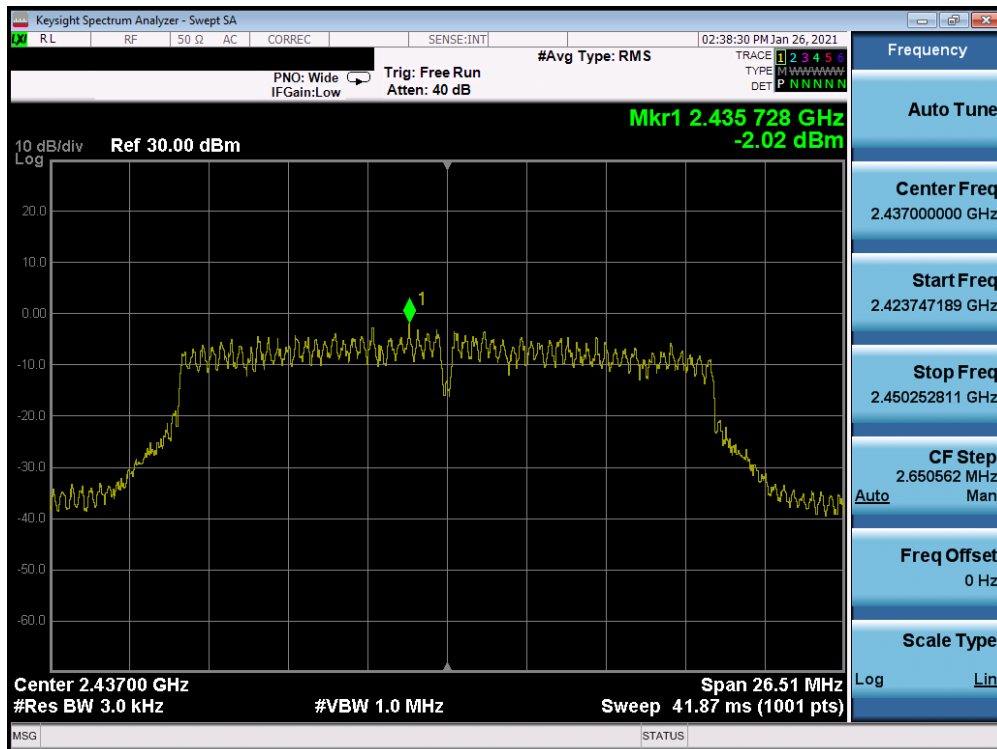


Plot 7-146. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS11

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 117 of 345

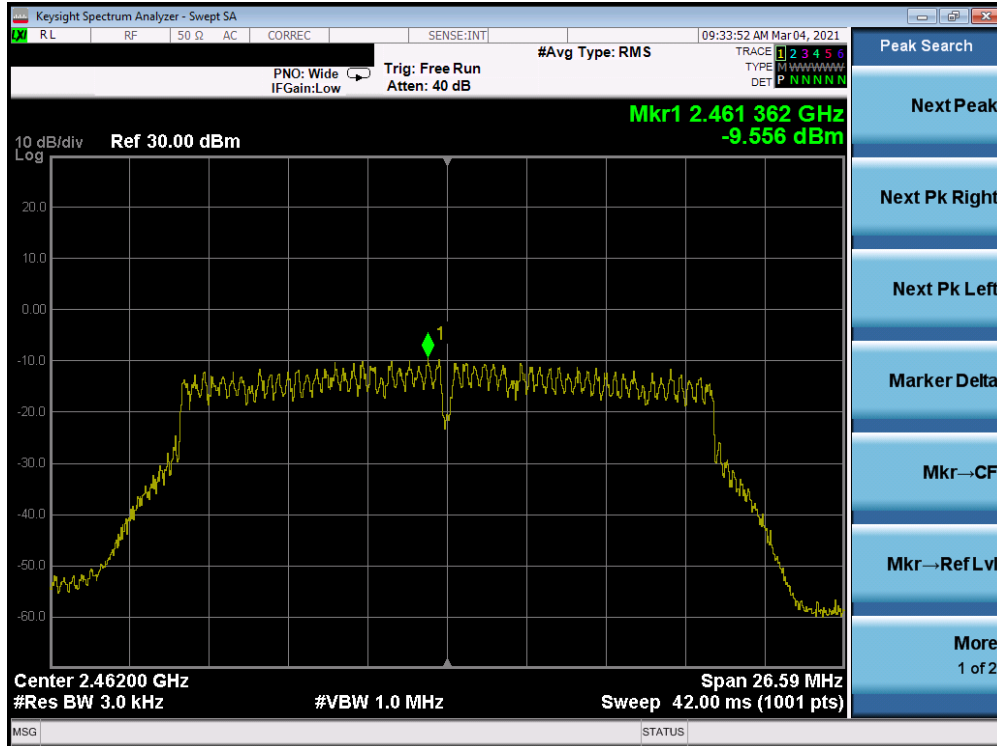


Plot 7-147. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 6) – MCS11

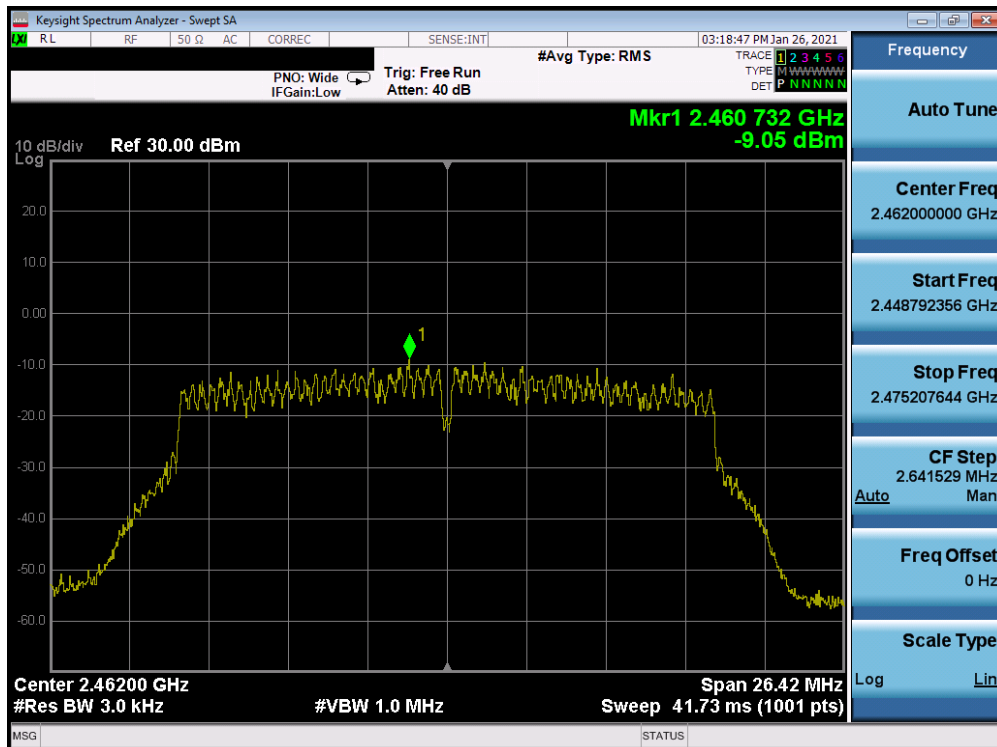


Plot 7-148. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS11

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 118 of 345

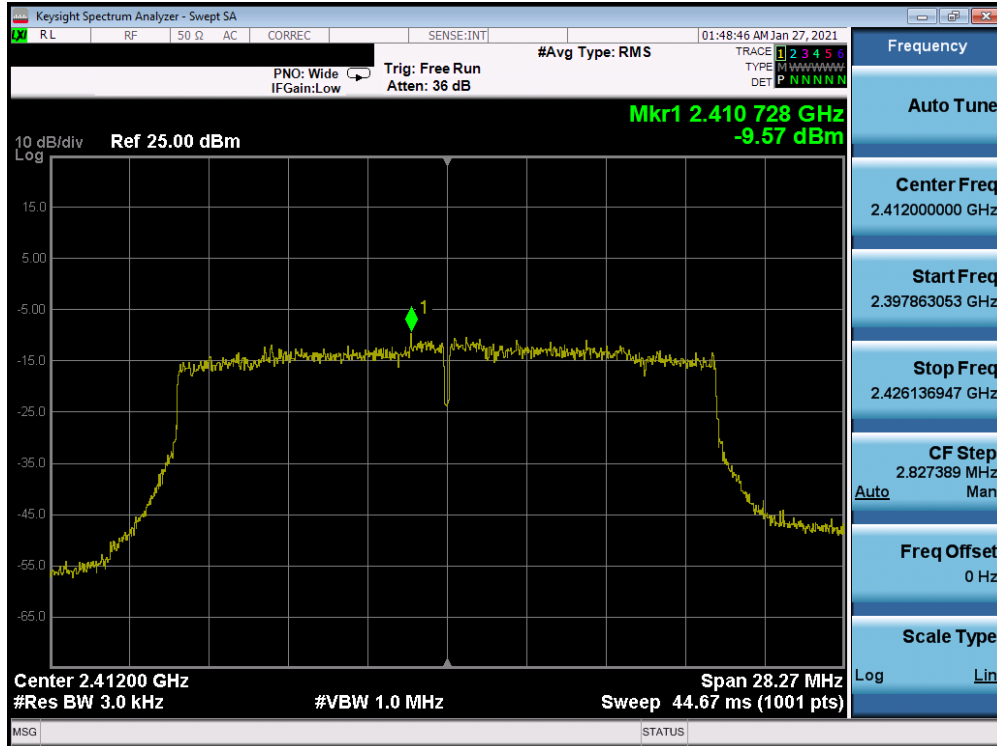


Plot 7-149. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 11) – MCS11

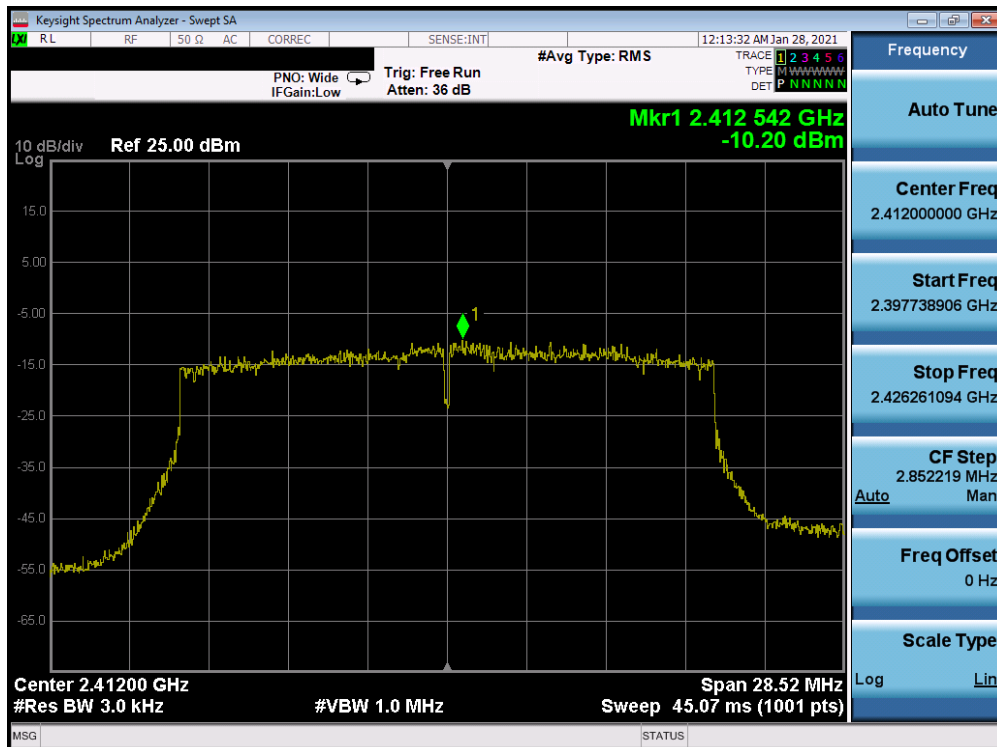


Plot 7-150. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS11

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 119 of 345

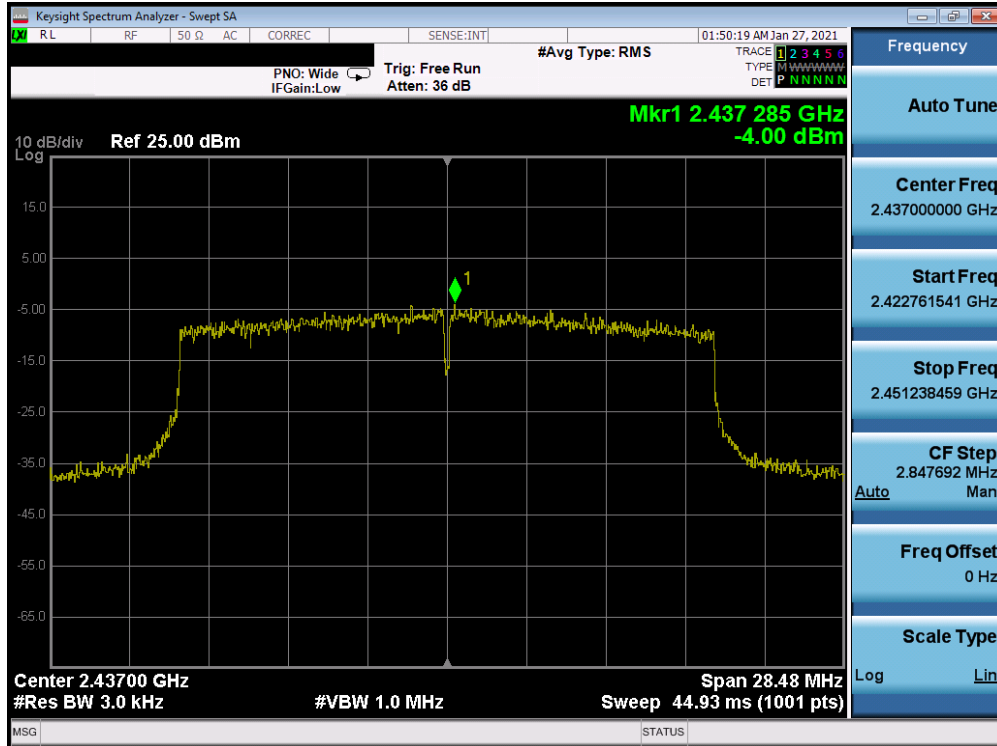


Plot 7-151. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS3

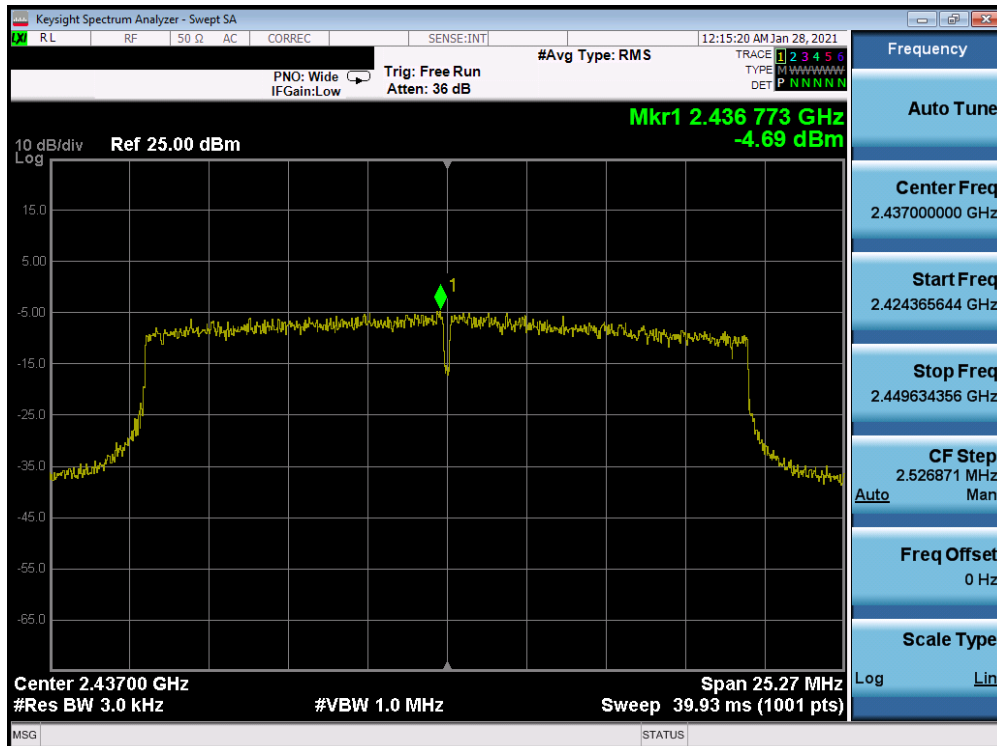


Plot 7-152. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 120 of 345

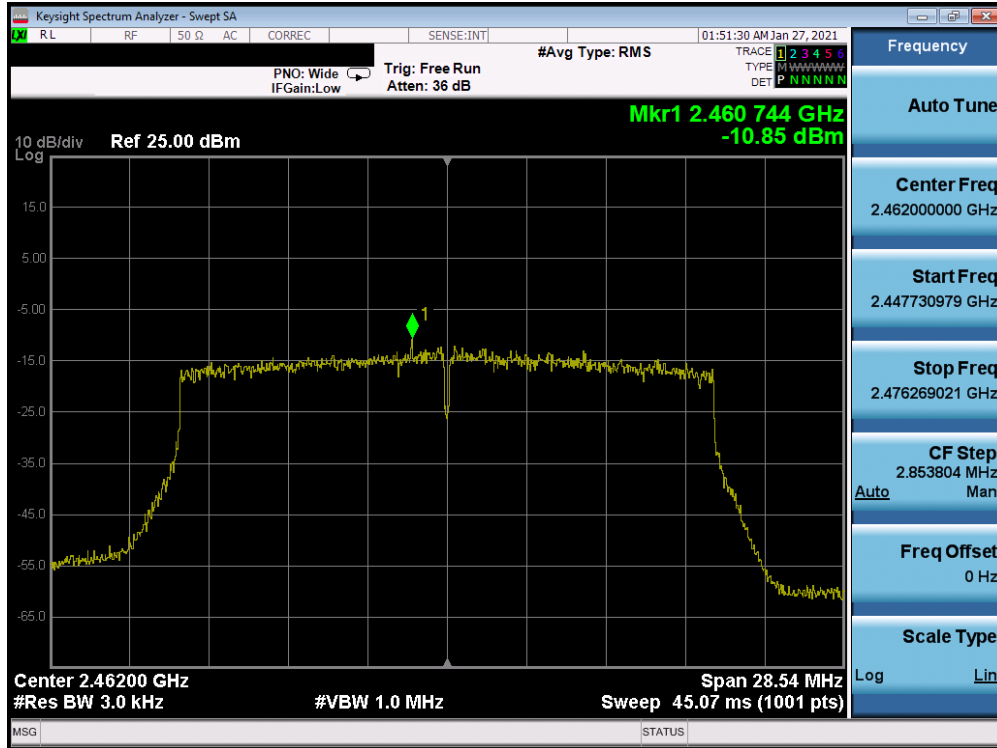


Plot 7-153. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS3

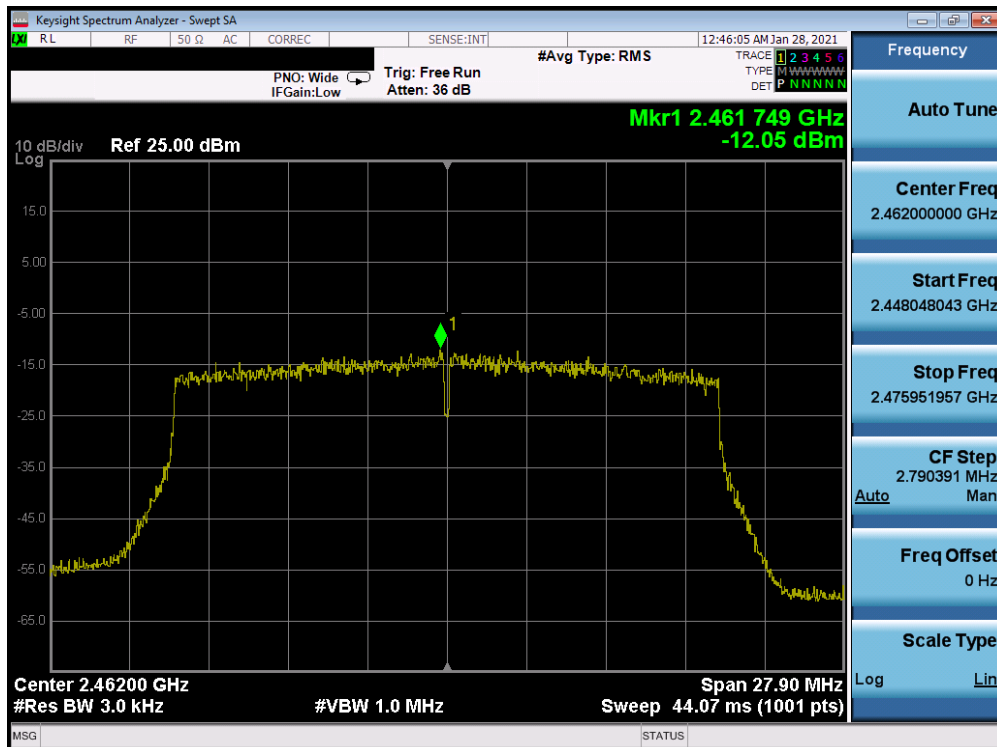


Plot 7-154. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 121 of 345



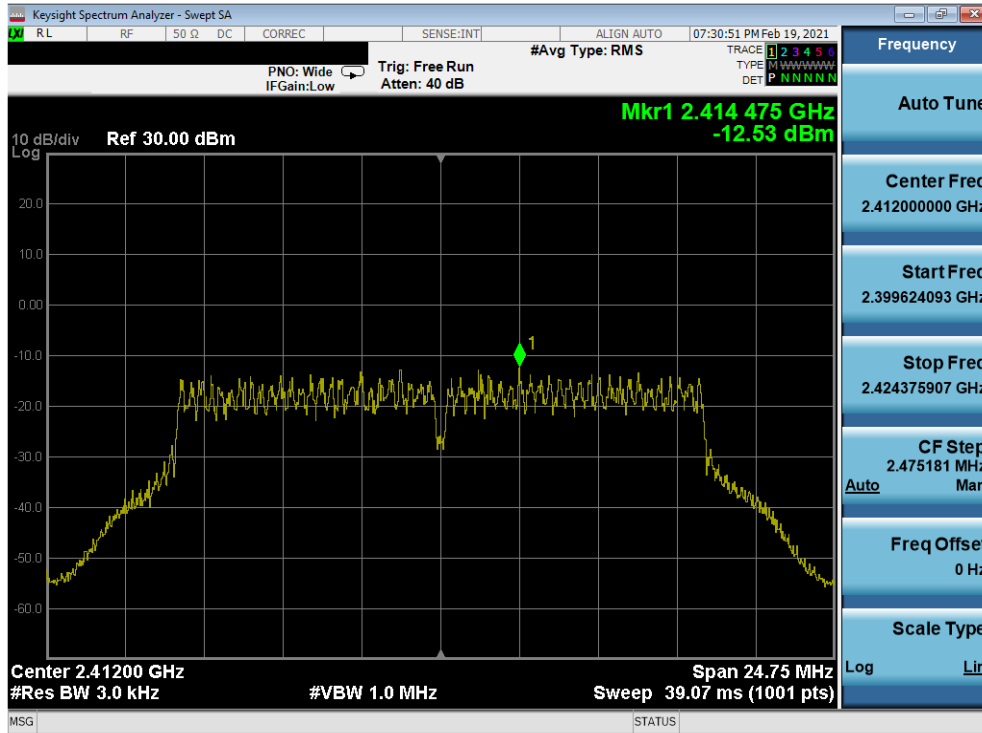
Plot 7-155. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS3



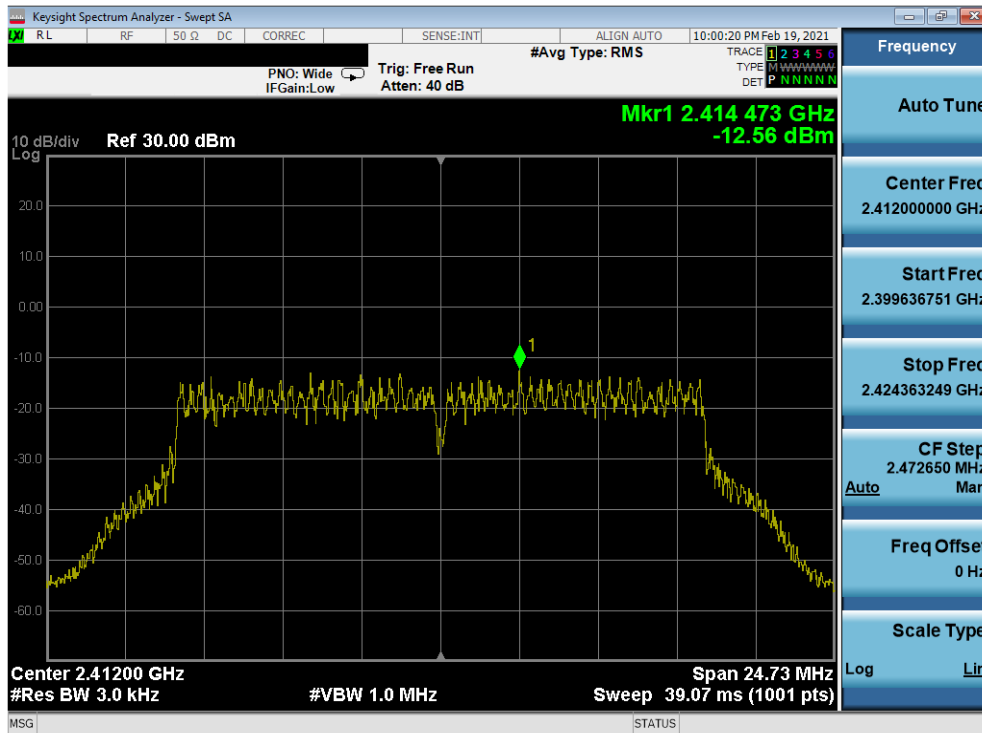
Plot 7-156. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 122 of 345

High Data Rate

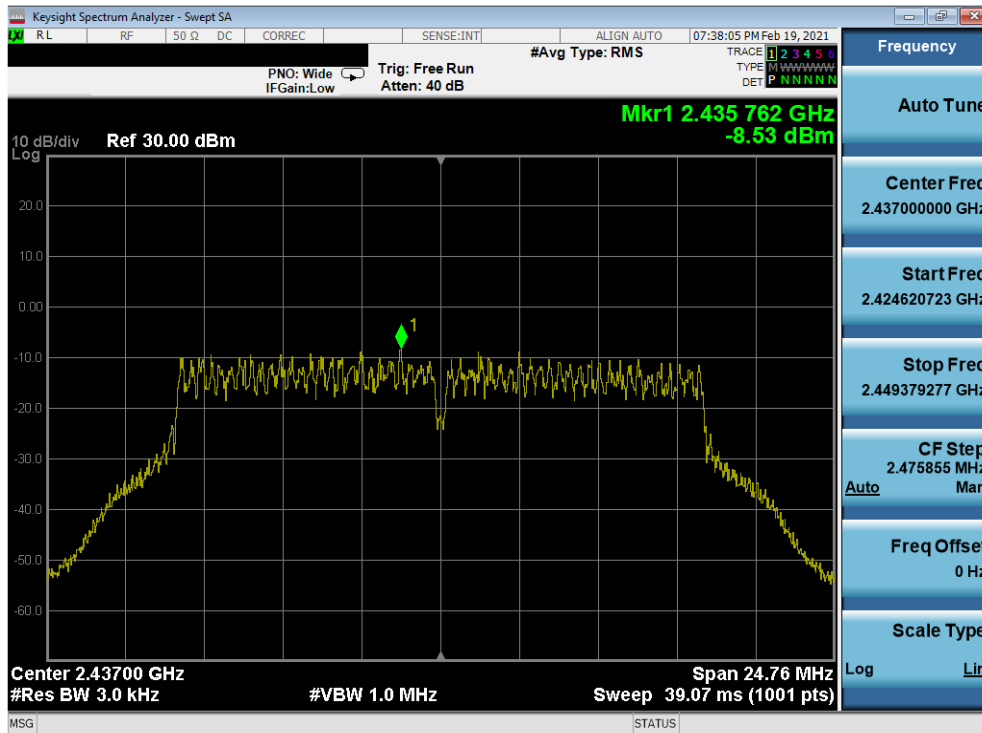


Plot 7-157. Power Spectral Density Plot CDD Antenna 4a (802.11g – Ch. 1) – 54Mbps

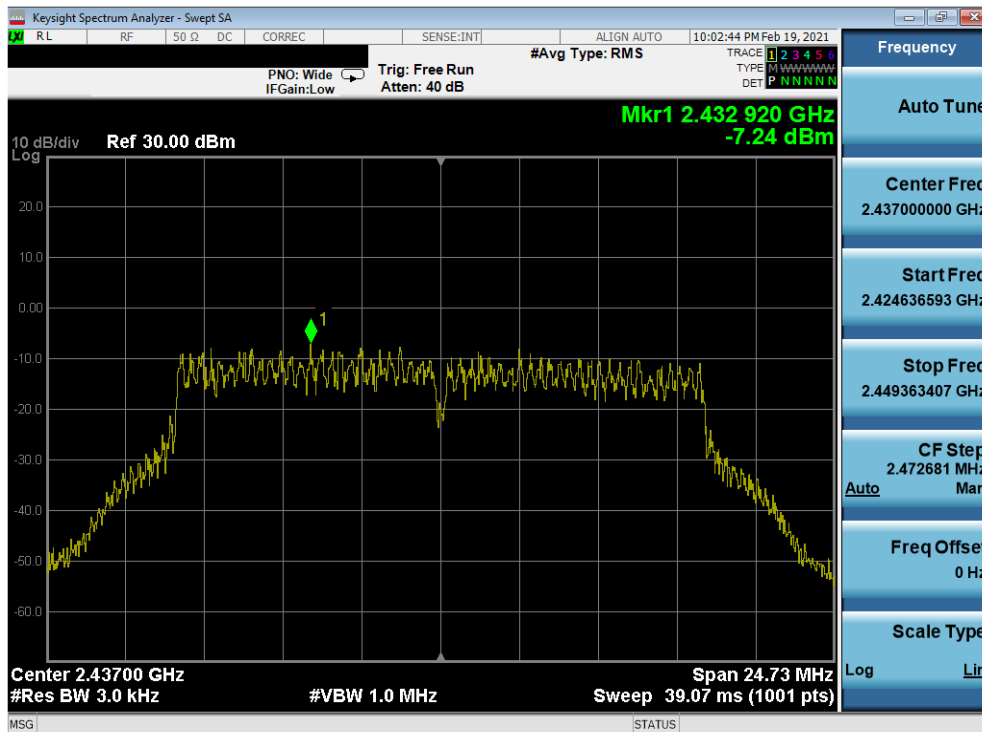


Plot 7-158. Power Spectral Density Plot CDD Antenna 2a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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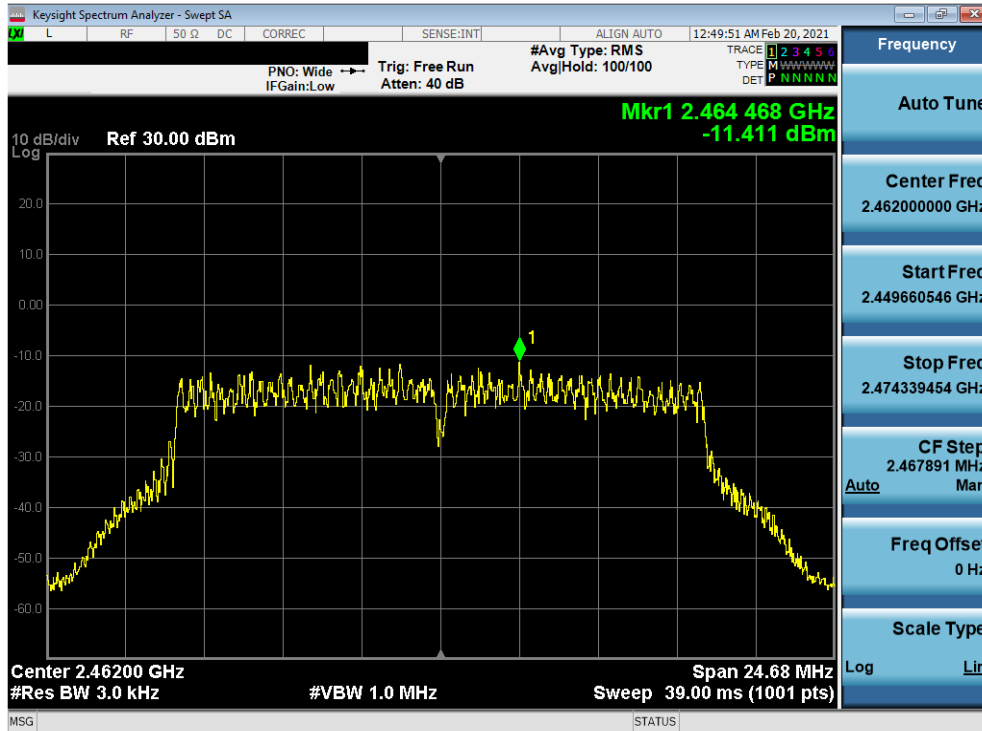


Plot 7-159. Power Spectral Density Plot CDD Antenna 4a (802.11g – Ch. 6) – 54Mbps

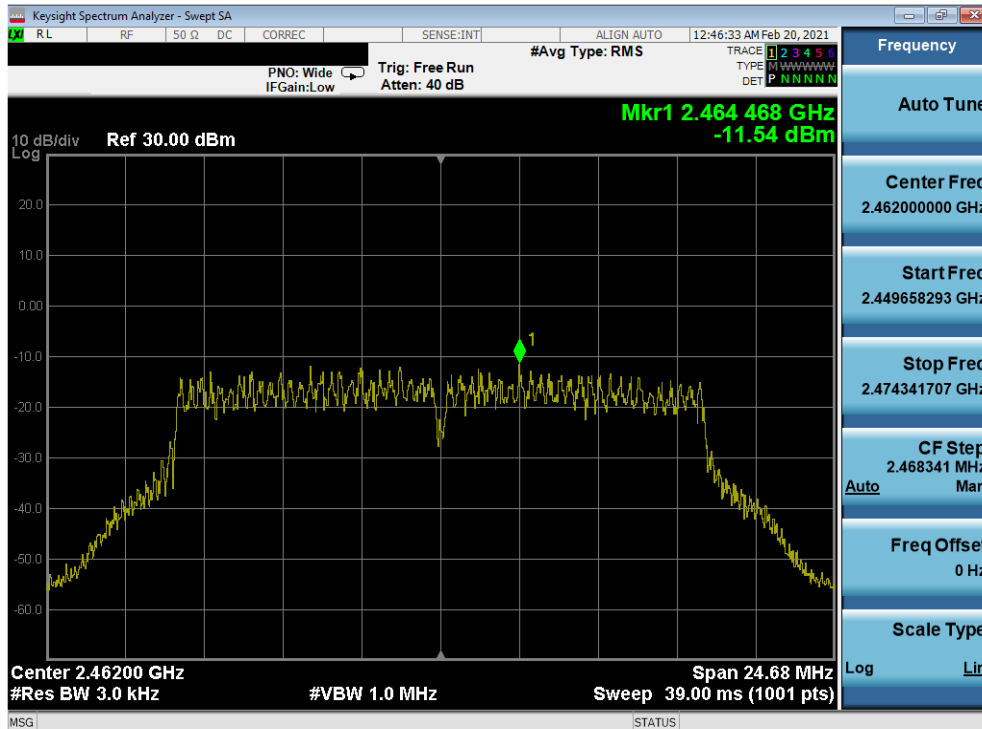


Plot 7-160. Power Spectral Density Plot CDD Antenna 2a (802.11g – Ch. 6) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 124 of 345

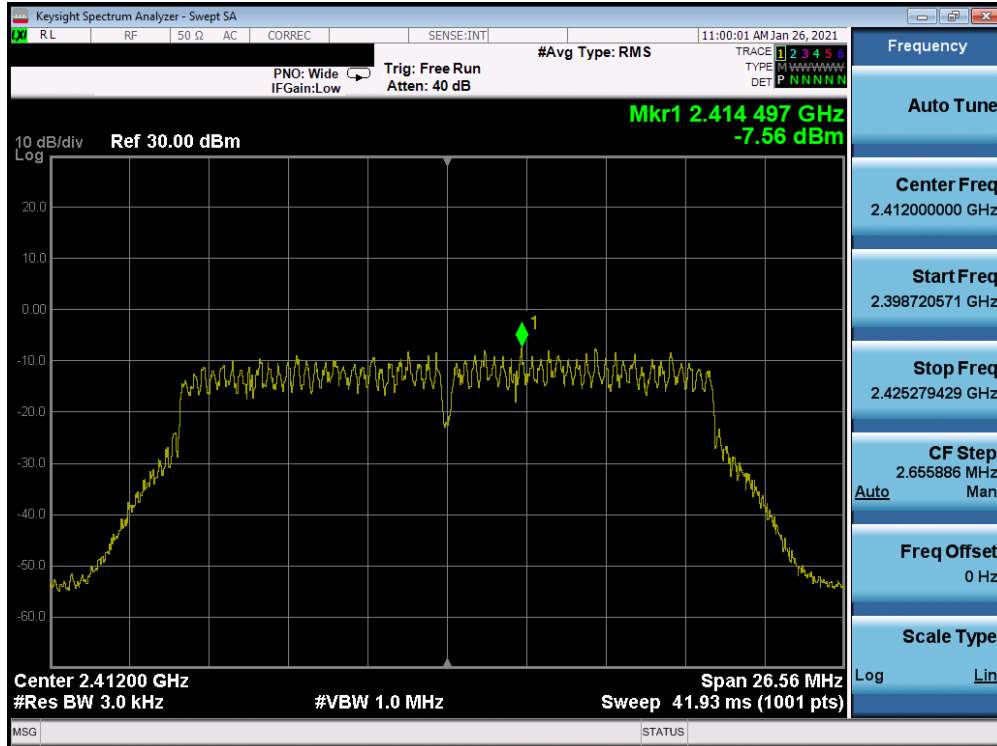


Plot 7-161. Power Spectral Density Plot CDD Antenna 4a (802.11g – Ch. 11) – 54Mbps

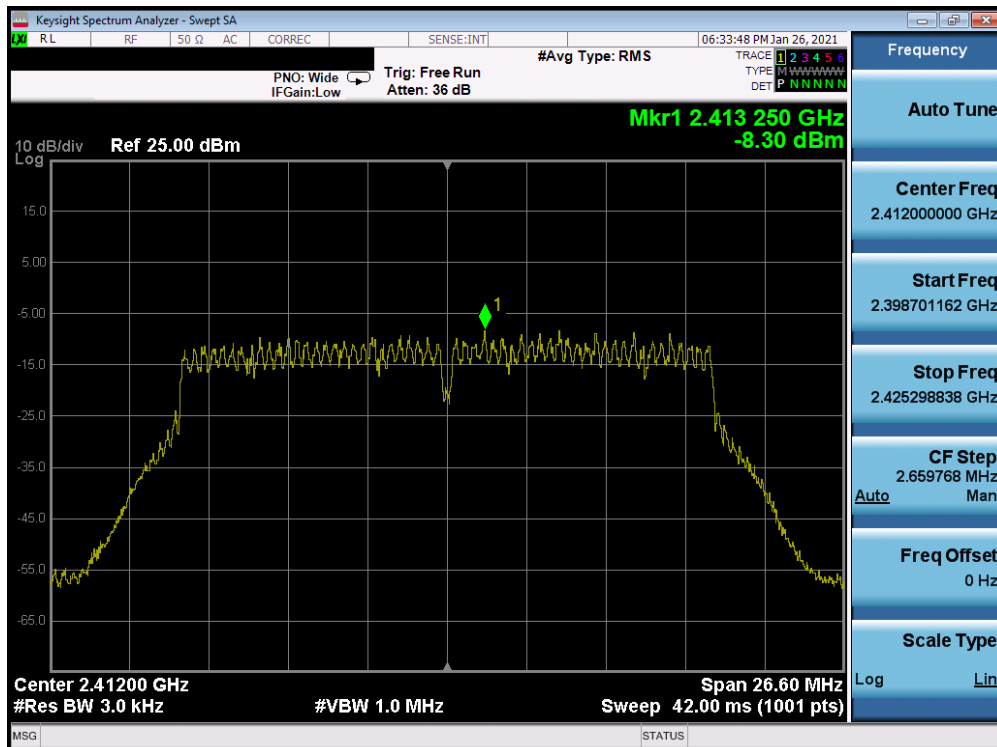


Plot 7-162. Power Spectral Density Plot CDD Antenna 2a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 125 of 345

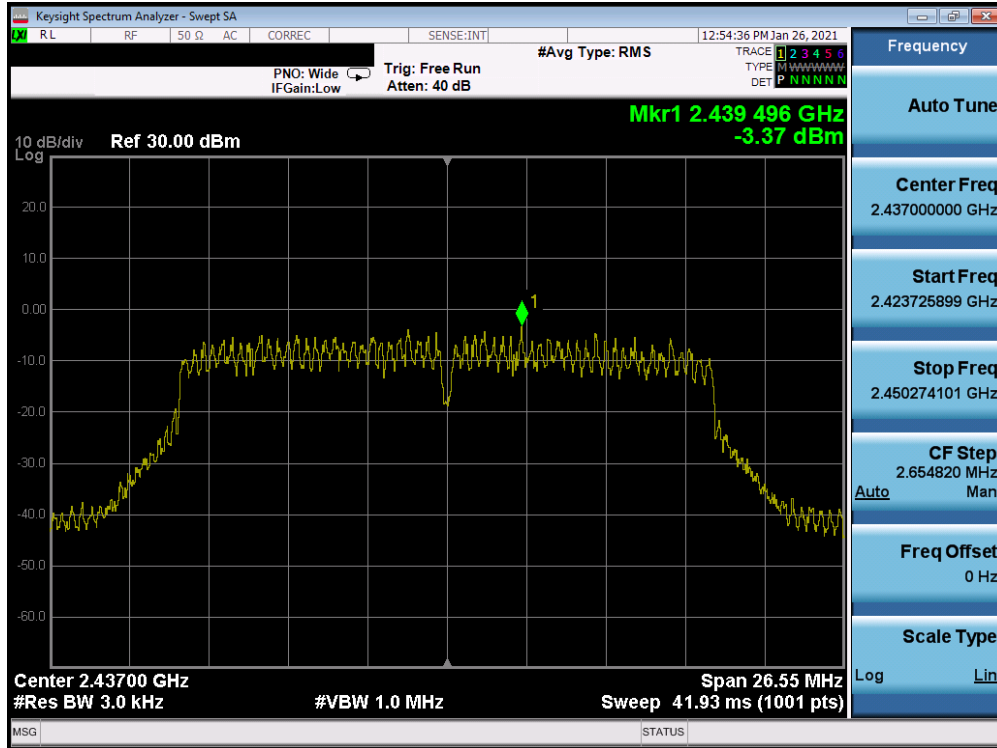


Plot 7-163. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 1) – MCS15

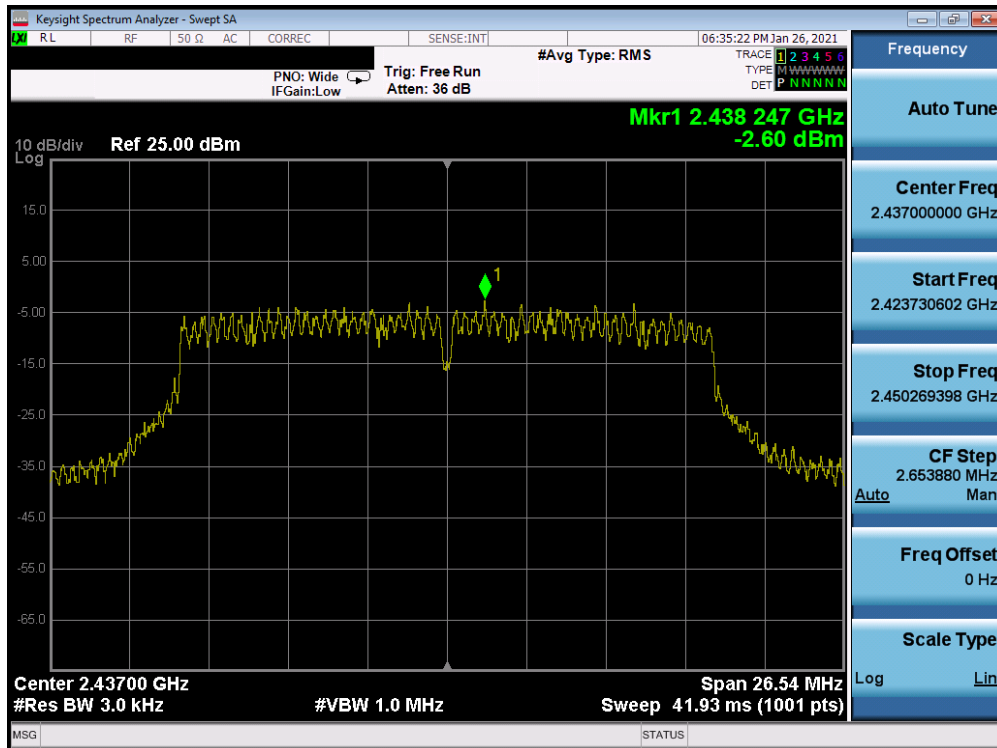


Plot 7-164. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS15

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 126 of 345

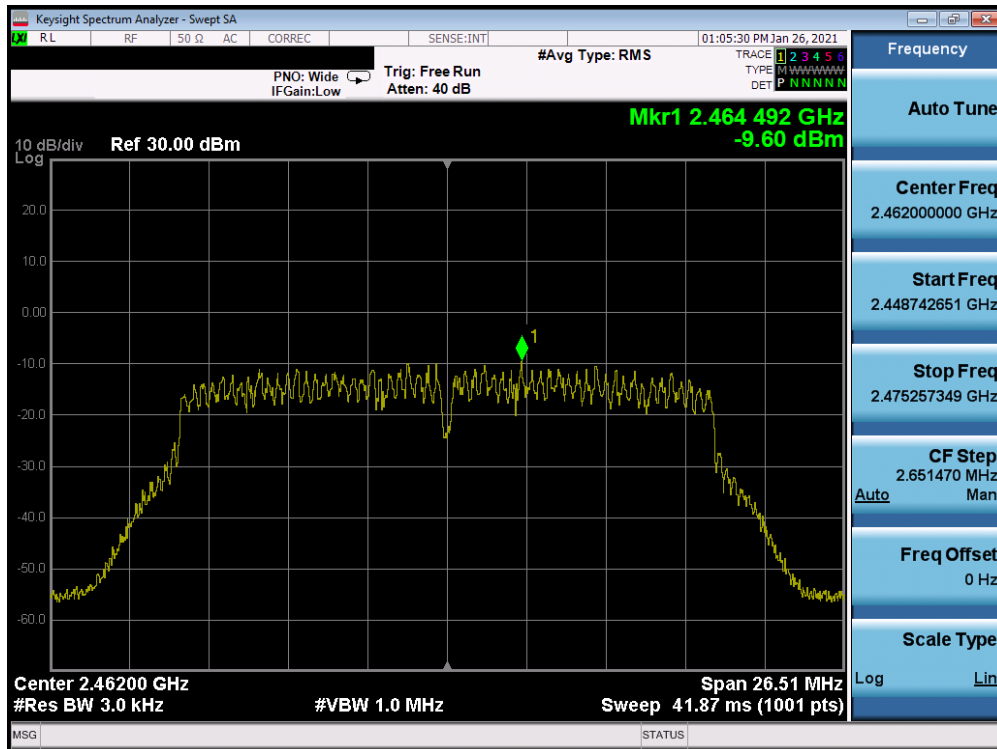


Plot 7-165. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 6) – MCS15

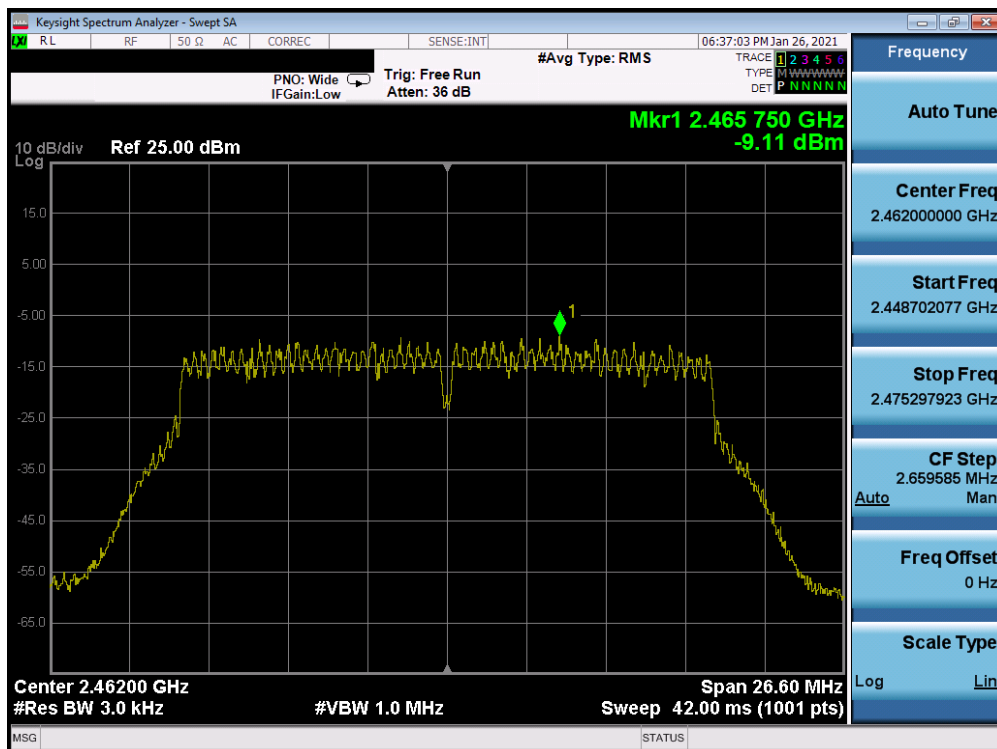


Plot 7-166. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS15

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 127 of 345

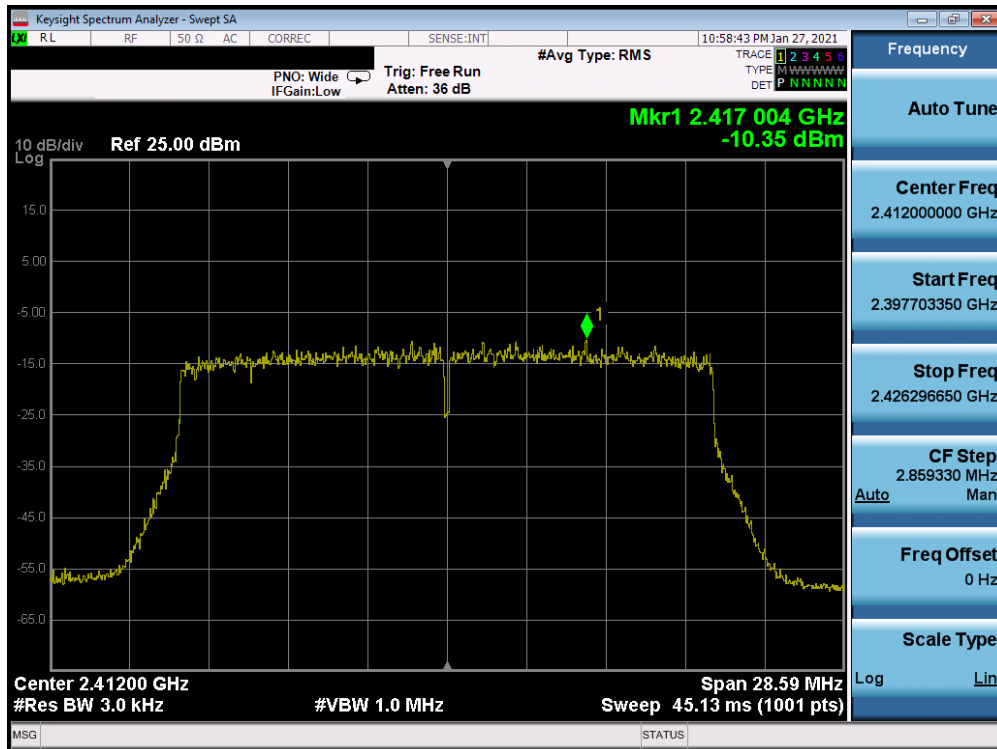


Plot 7-167. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) – Ch. 11) – MCS15

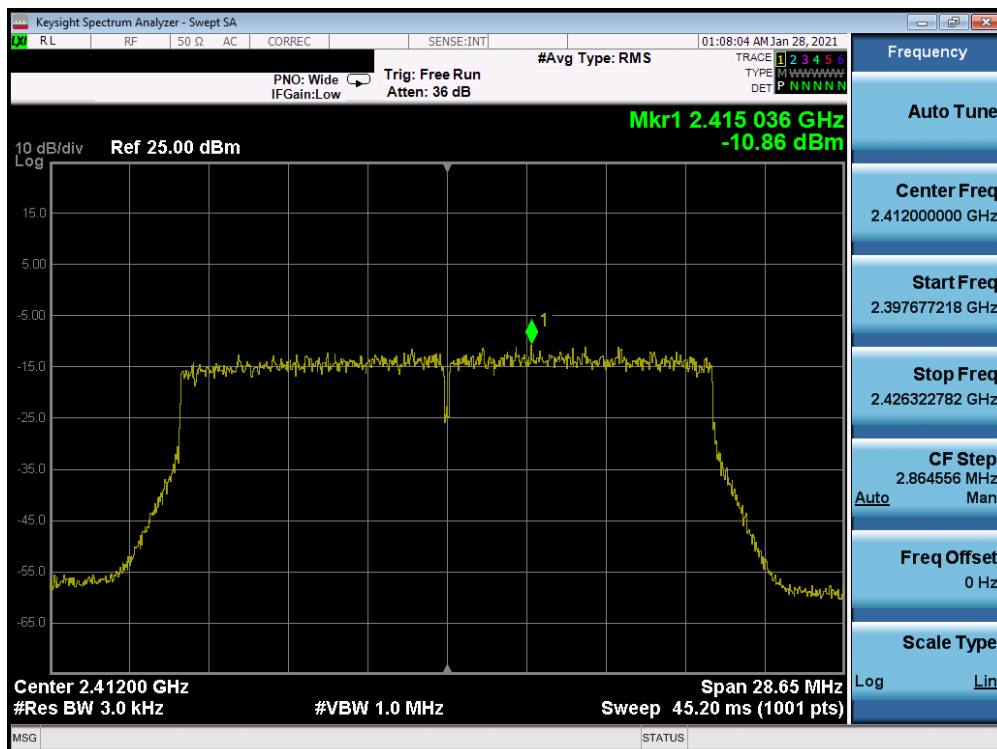


Plot 7-168. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS15

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 128 of 345

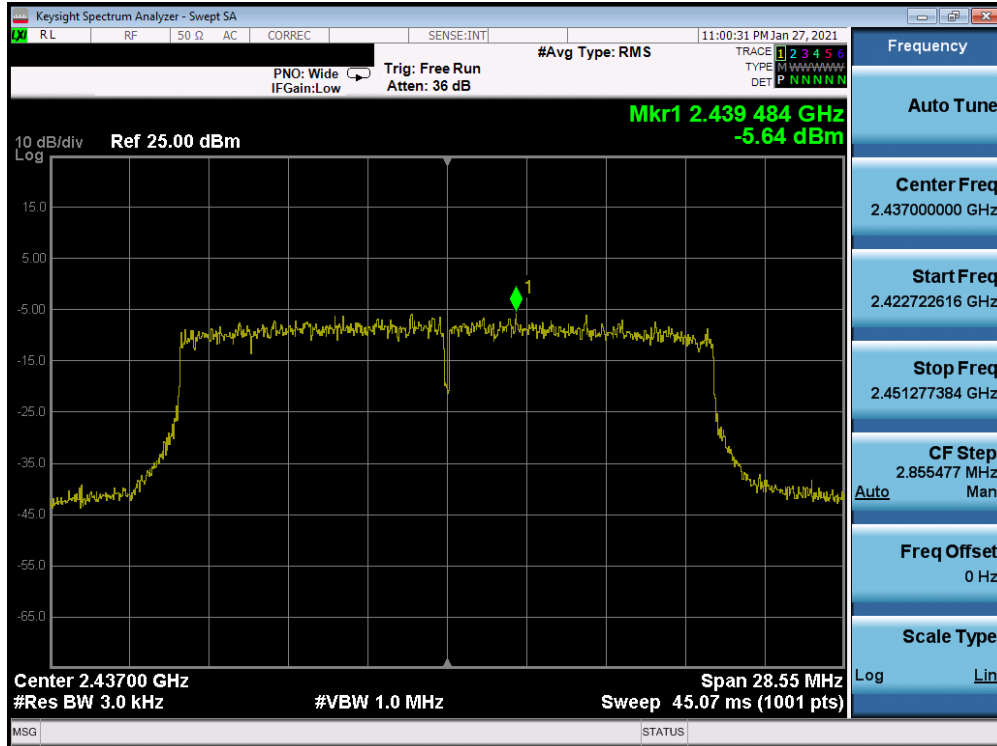


Plot 7-169. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

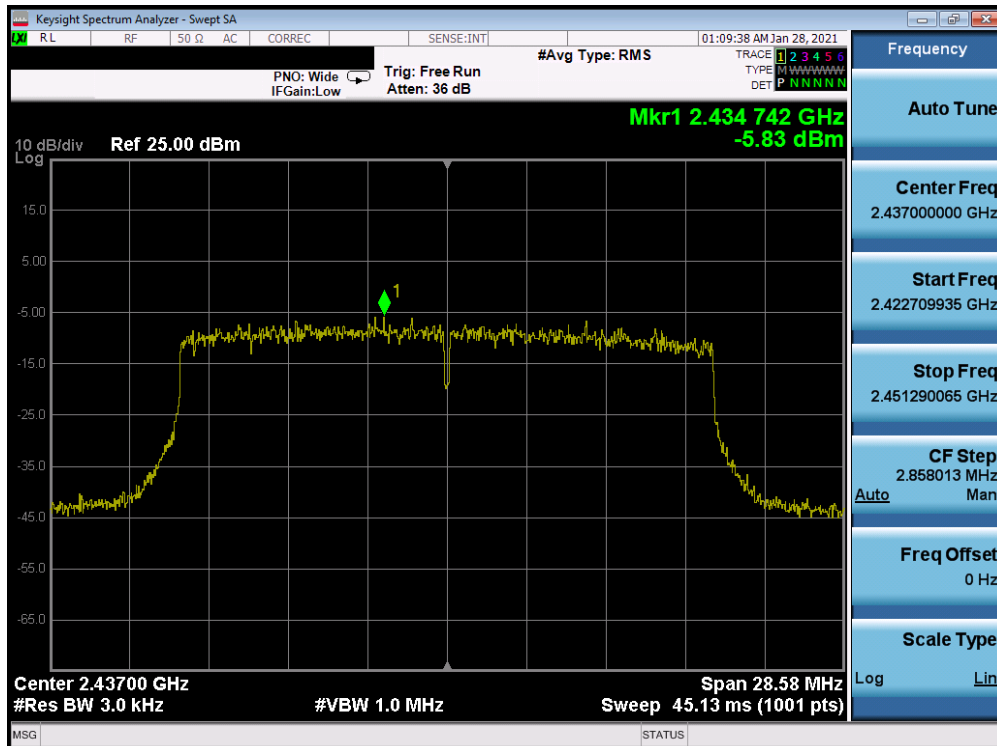


Plot 7-170. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 129 of 345

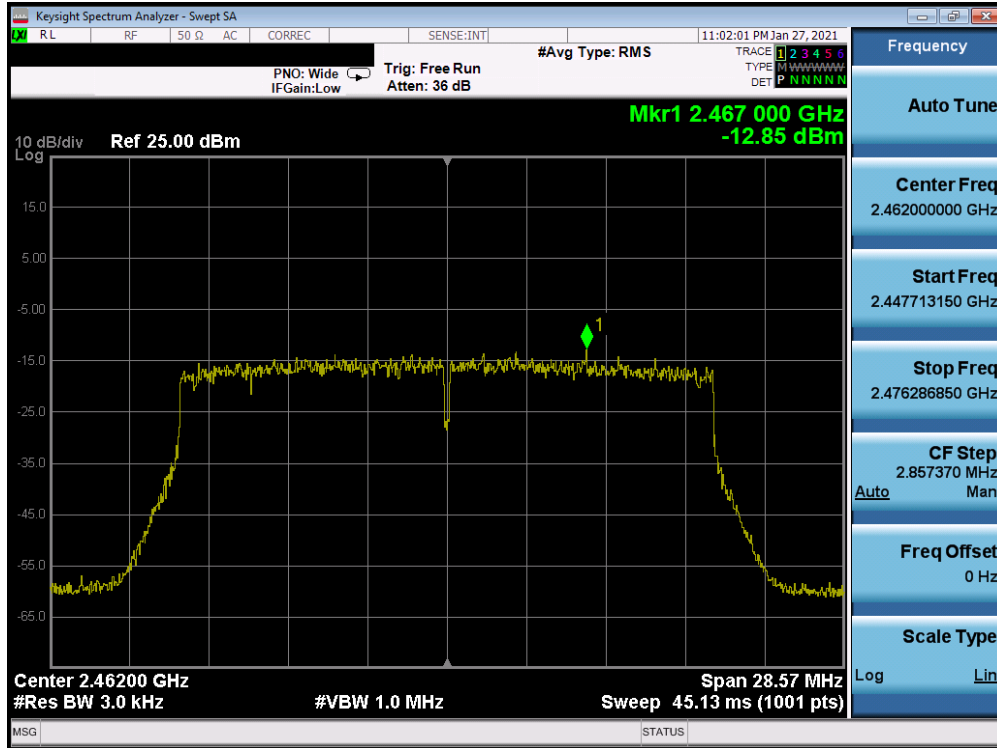


Plot 7-171. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5

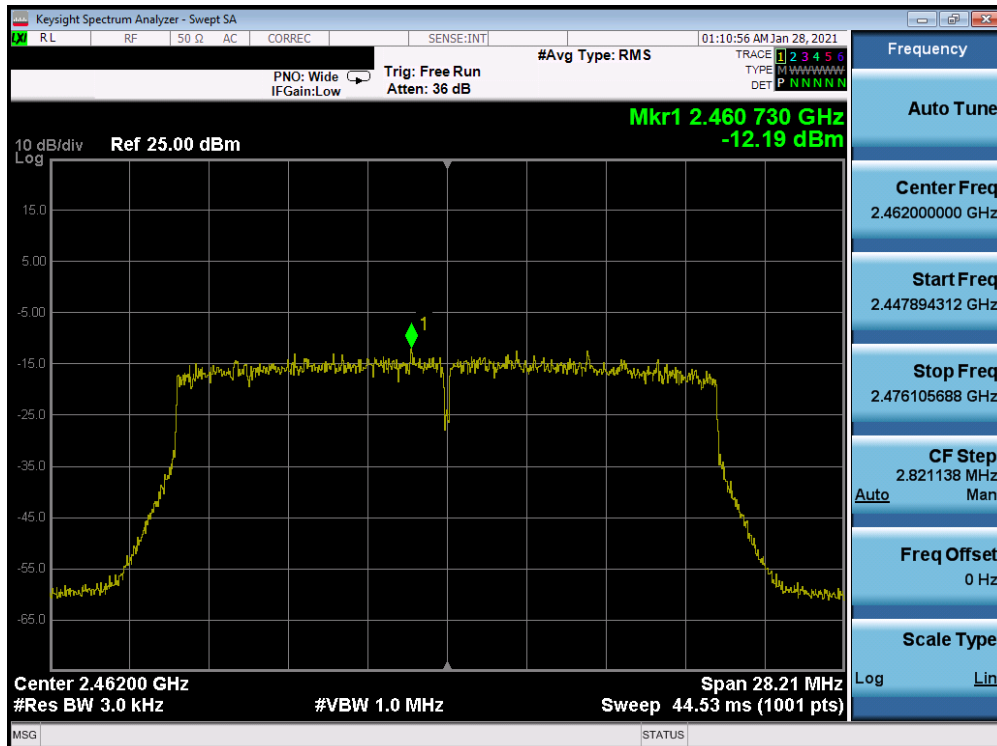


Plot 7-172. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-173. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5



Plot 7-174. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 131 of 345

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 4a and Antenna 2a 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 -11.08 dBm for Antenna 4a and -10.55 dBm for Antenna 2a.

$$\text{Antenna 4a} + \text{Antenna 2a} = \text{CDD}$$

$$(-11.08 \text{ dBm} + -10.55 \text{ dBm}) = (0.078 \text{ mW} + 0.088 \text{ mW}) = 0.166 \text{ mW} = -7.80 \text{ dBm}$$

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality 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, 6, 18, 54 Mbps for “g” mode, 6.5/7.2, 26/28.9, 65/72.2Mbps for “n” mode, and 8/8.6, 33/34.4, 65/68.8 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 – Section 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

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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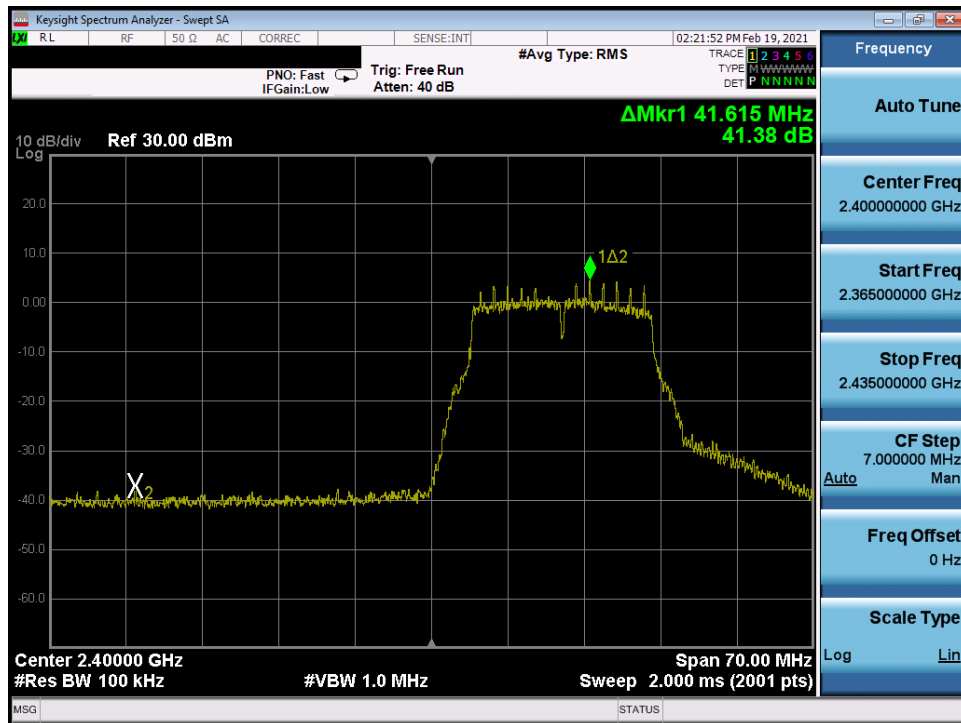
Test Notes

1. All antenna configurations were investigated and only the worst case is reported.
2. The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three data rate groups of data rate have been investigated and only the worst case data rate per group is reported.

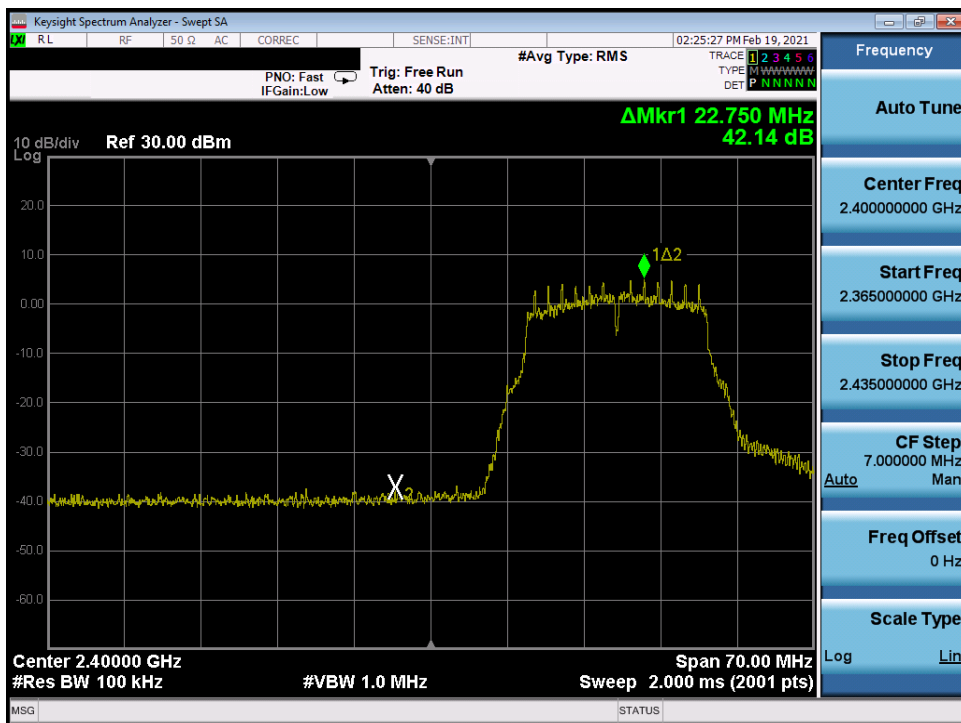
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 134 of 345

Antenna 4a Conducted Emissions at the Band Edge

Low Data Rate

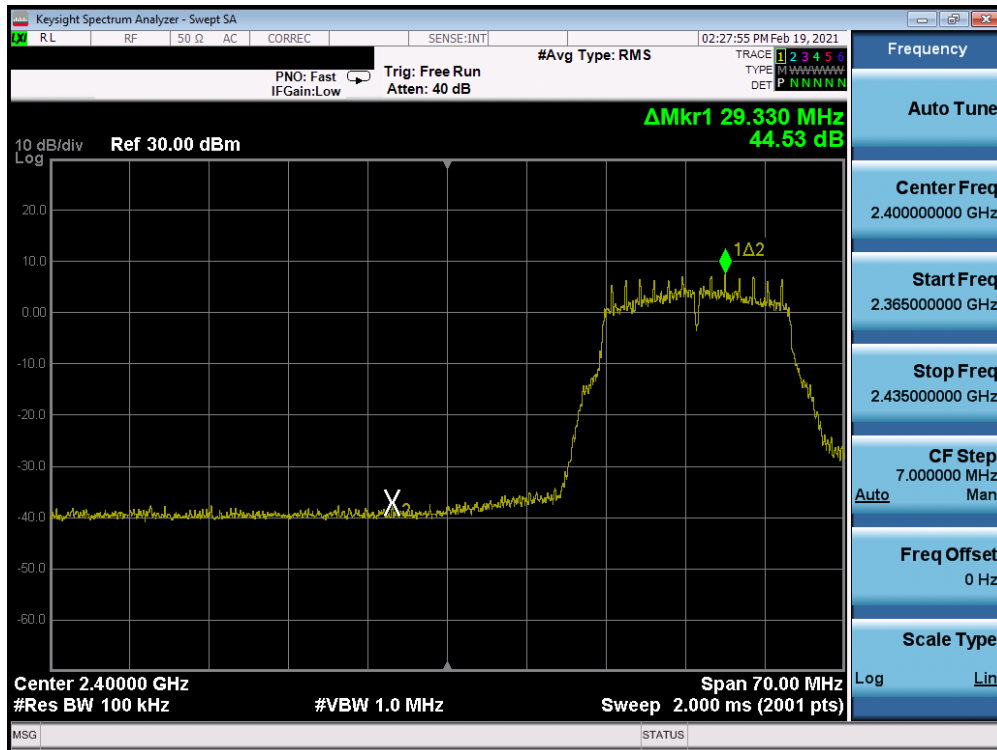


Plot 7-175. Band Edge Plot Antenna 4a (802.11g– Ch. 1) – 6Mbps

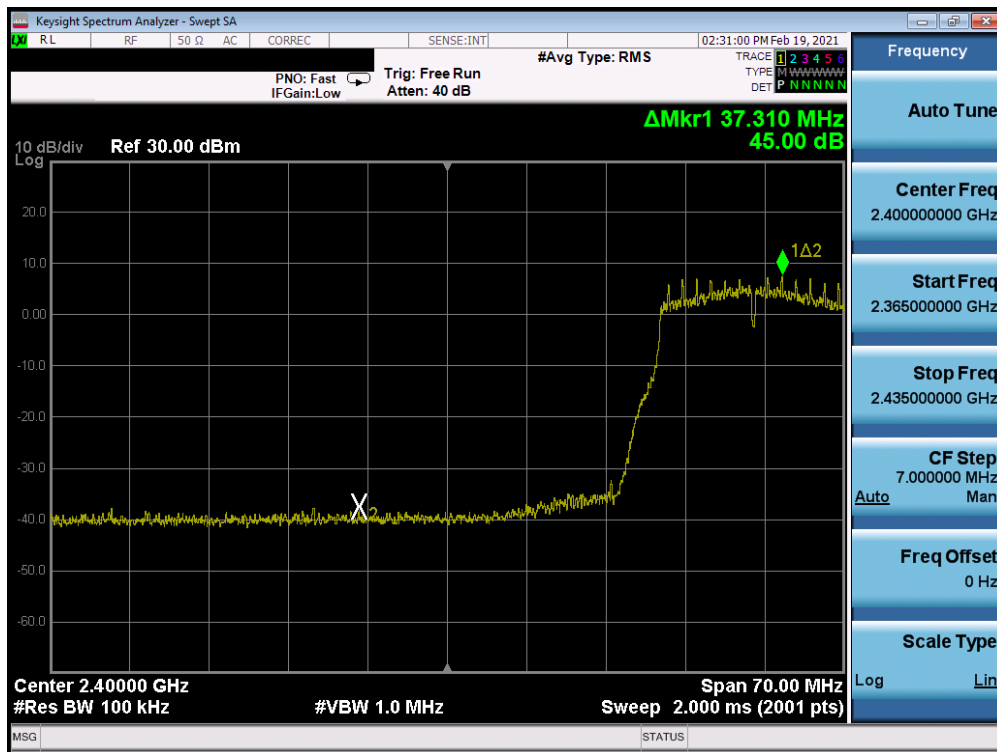


Plot 7-176. Band Edge Plot Antenna 4a (802.11g– Ch. 2) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 135 of 345

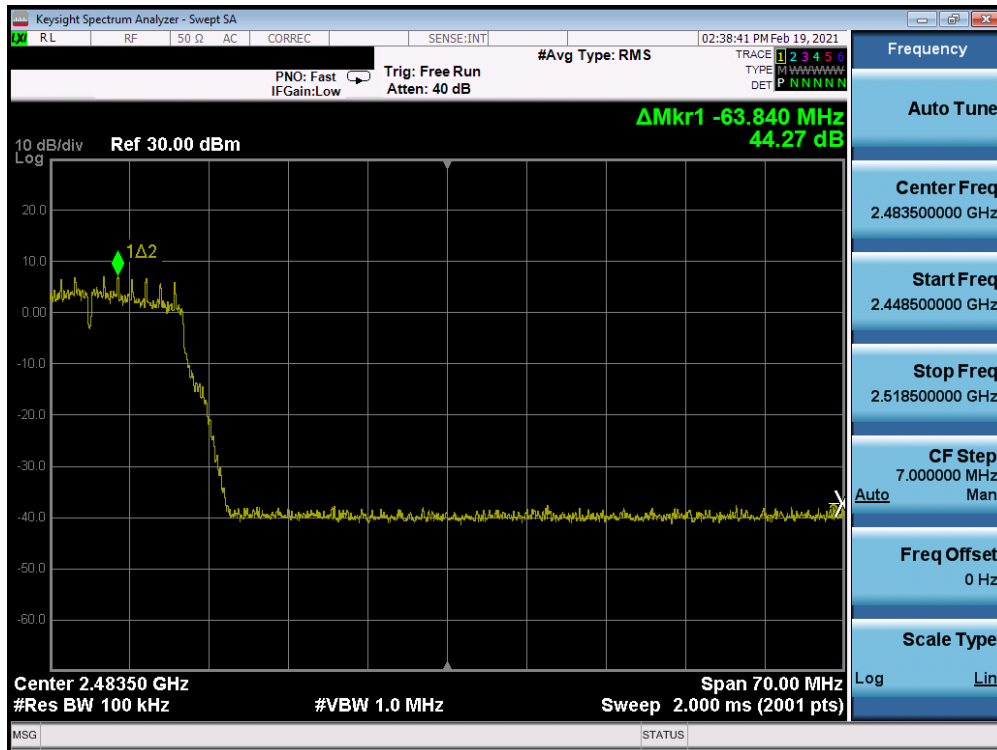


Plot 7-177. Band Edge Plot Antenna 4a (802.11g- Ch. 3) – 6Mbps

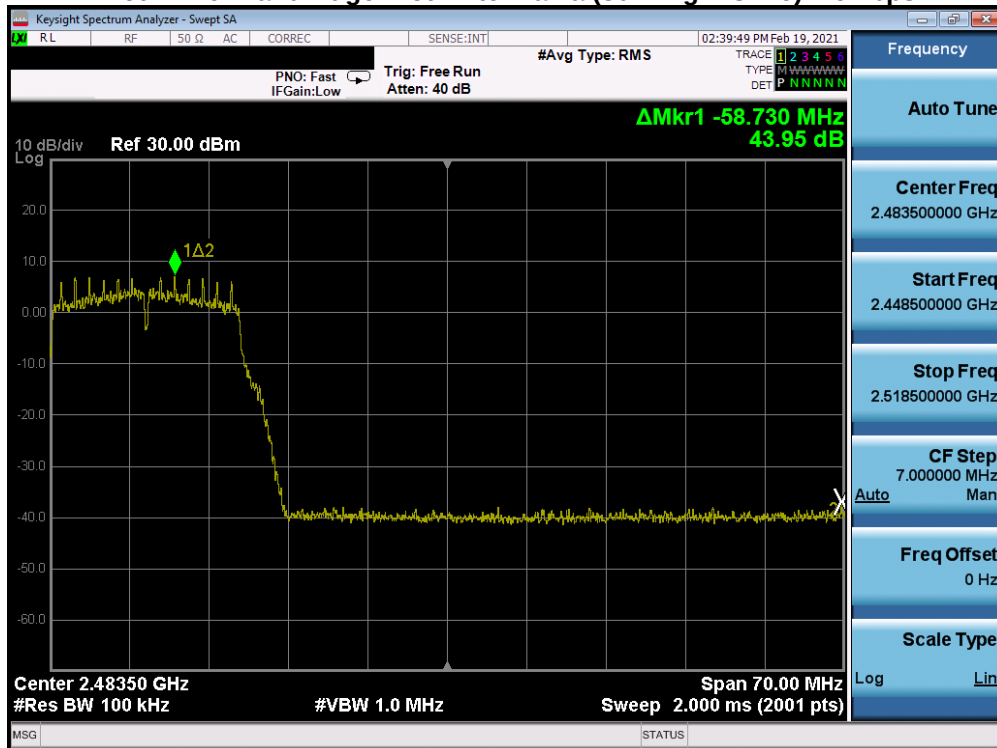


Plot 7-178. Band Edge Plot Antenna 4a (802.11g- Ch. 4) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 136 of 345

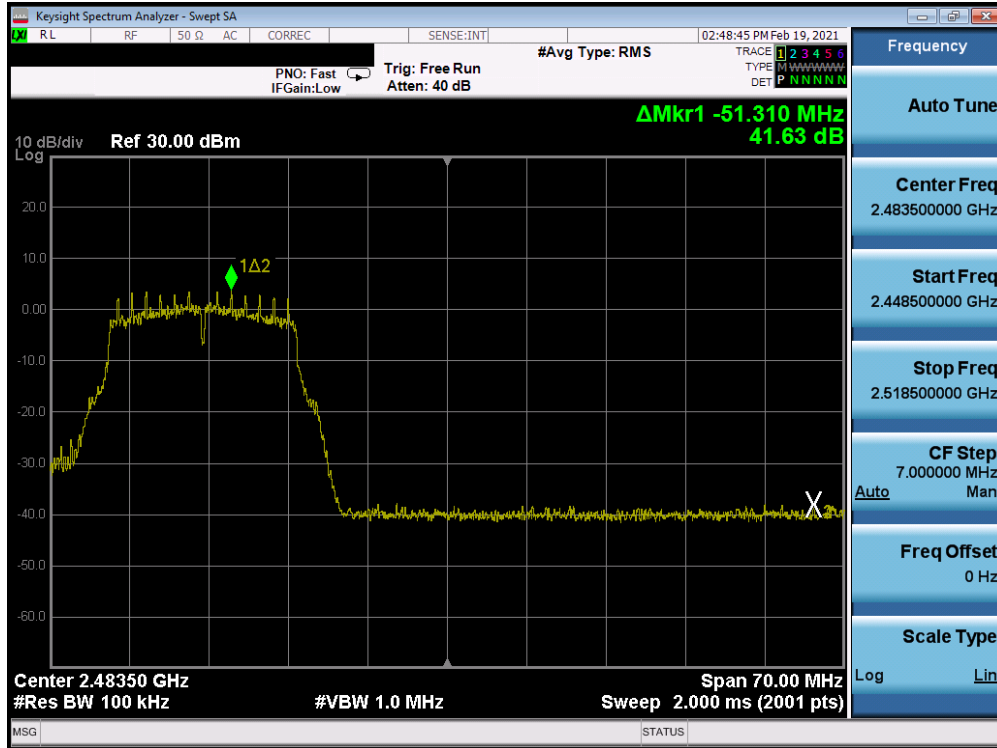


Plot 7-179. Band Edge Plot Antenna 4a (802.11g – Ch. 9) – 6Mbps

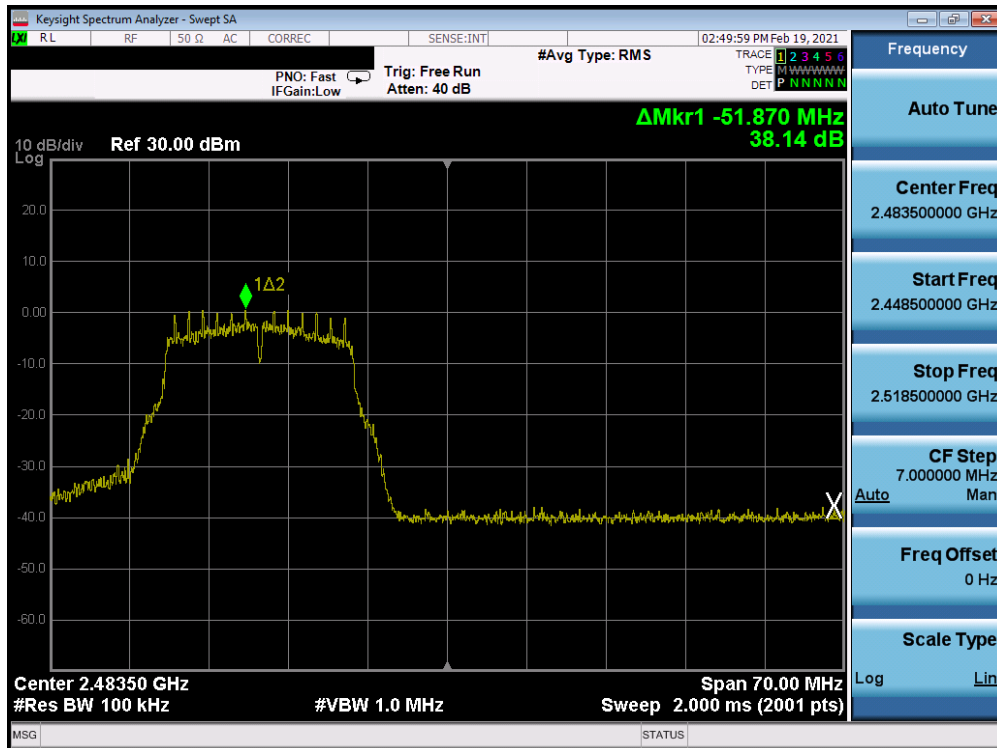


Plot 7-180. Band Edge Plot Antenna 4a (802.11g – Ch. 10) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 137 of 345

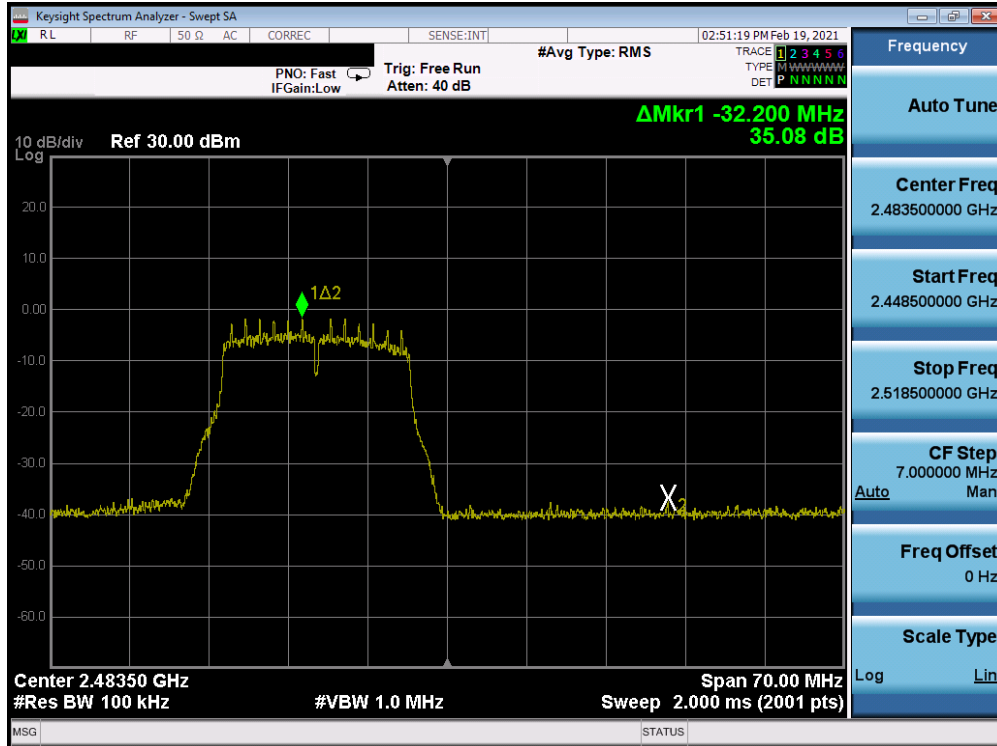


Plot 7-181. Band Edge Plot Antenna 4a (802.11g - Ch. 11) - 6Mbps

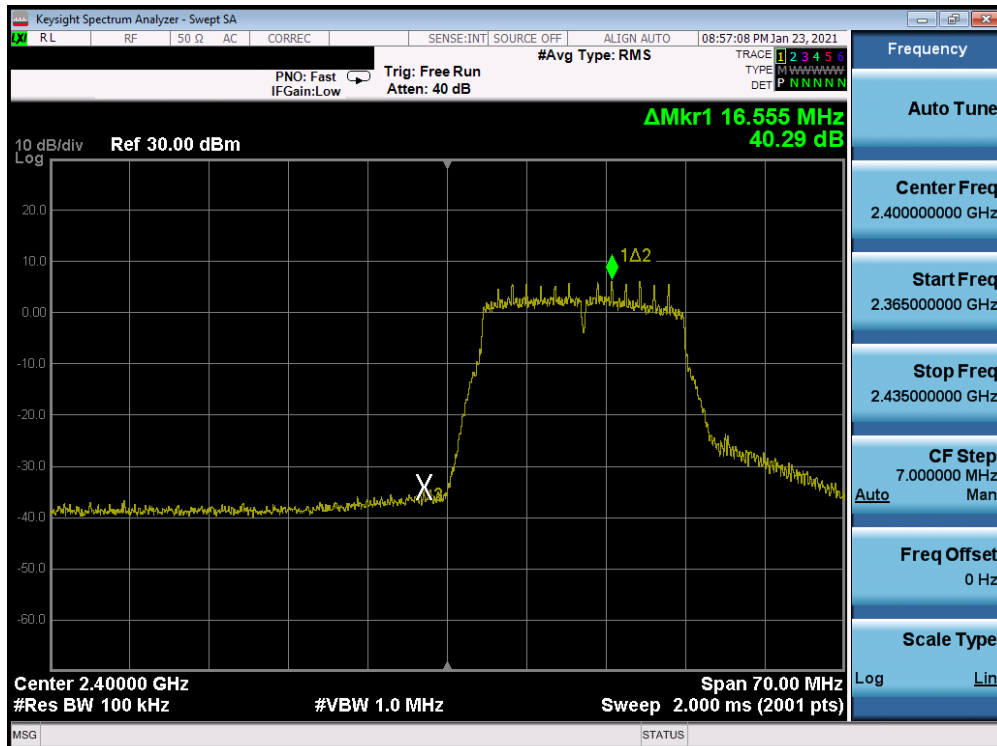


Plot 7-182. Band Edge Plot Antenna 4a (802.11g - Ch. 12) - 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 138 of 345

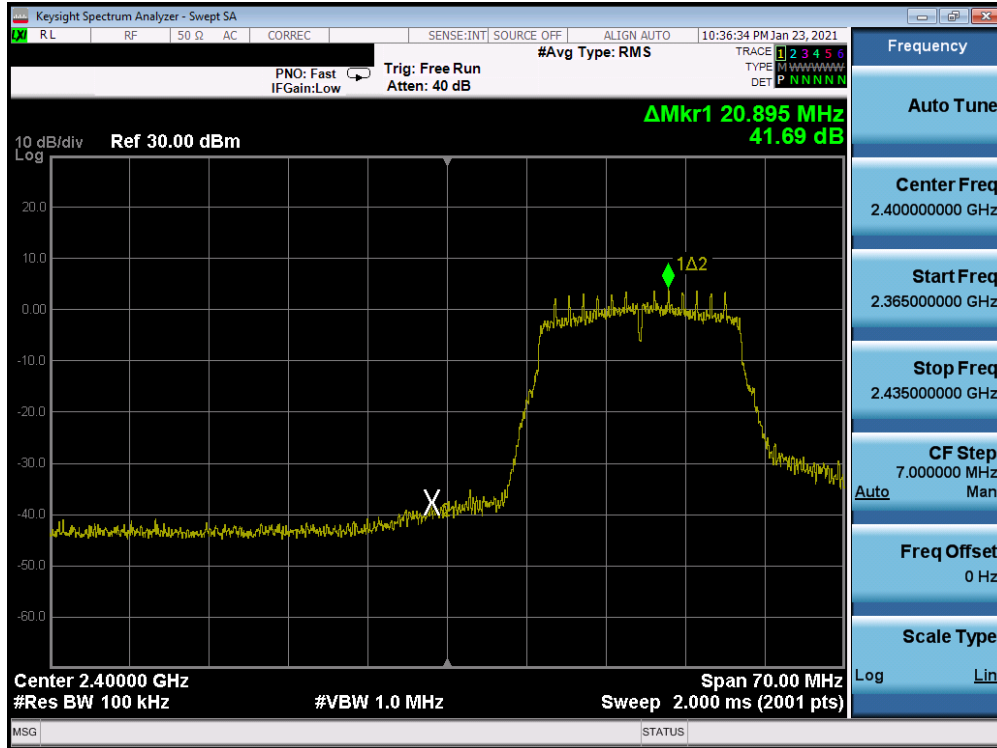


Plot 7-183. Band Edge Plot Antenna 4a (802.11g - Ch. 13) - 6Mbps

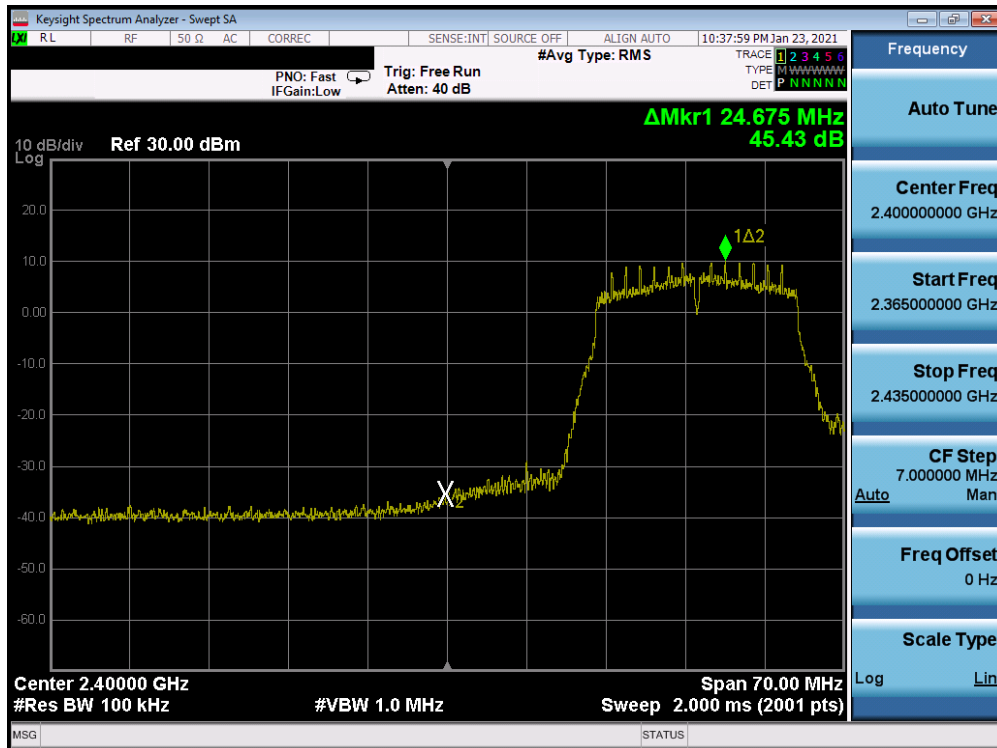


Plot 7-184. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 1) - MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 139 of 345

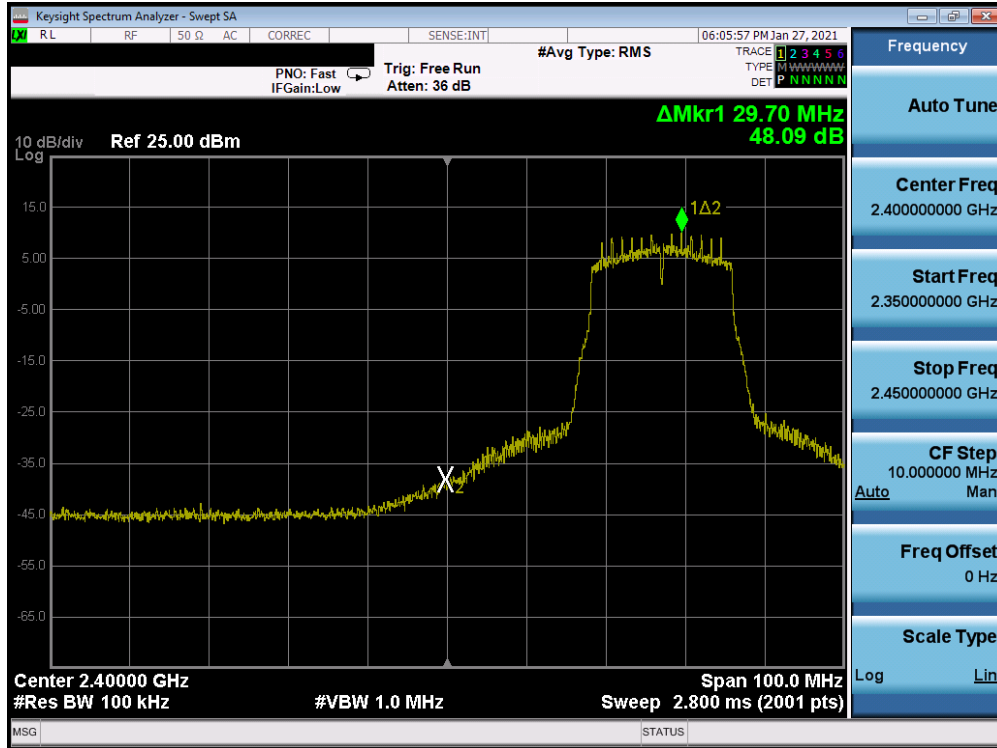


Plot 7-185. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 2) – MCS0

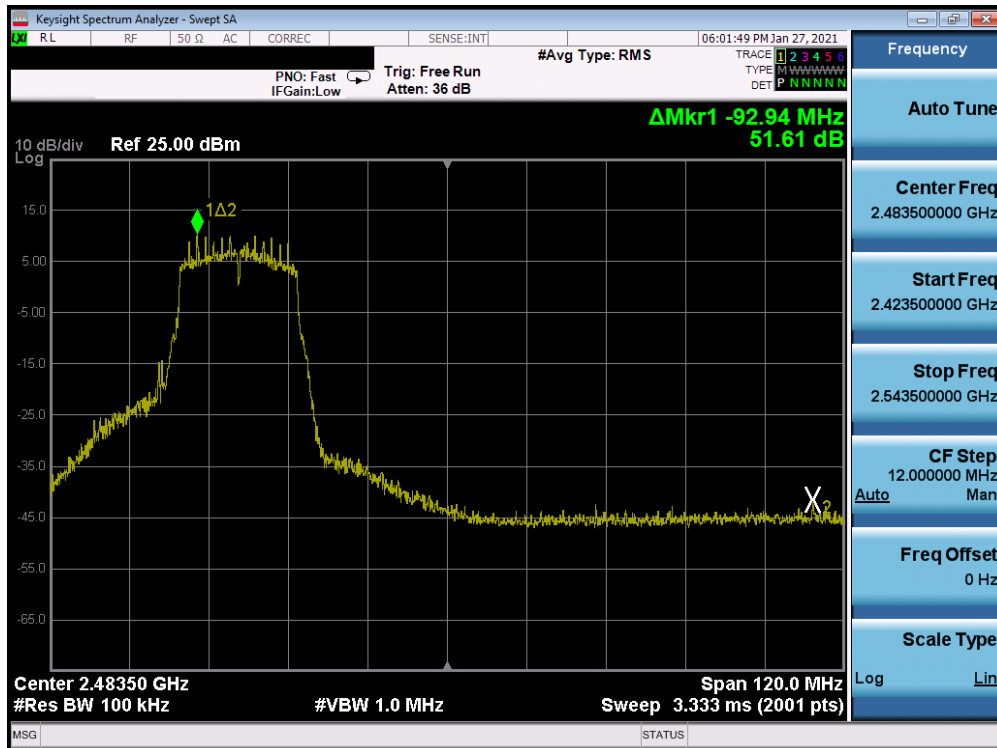


Plot 7-186. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 3) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 140 of 345

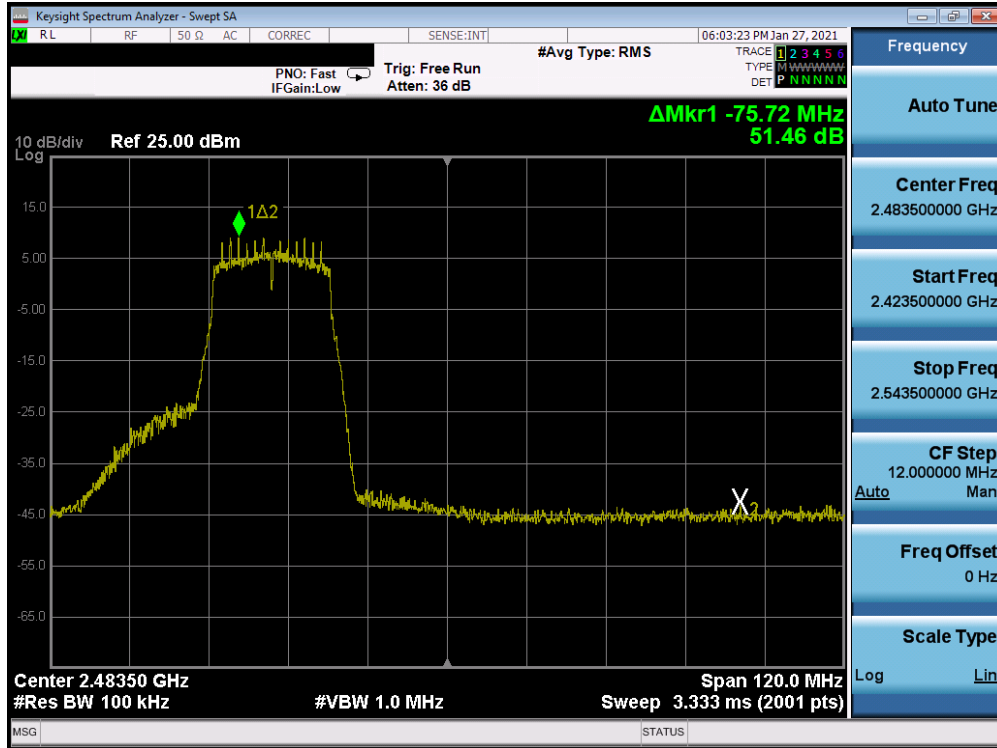


Plot 7-187. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 4) - MCS0

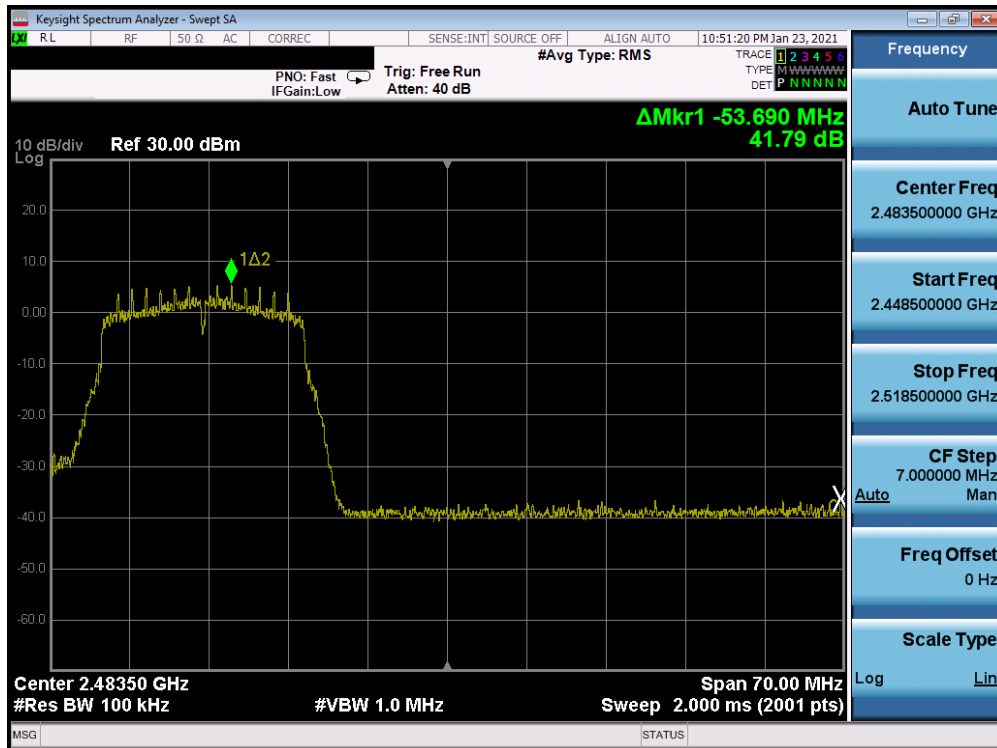


Plot 7-188. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 9) - MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 141 of 345

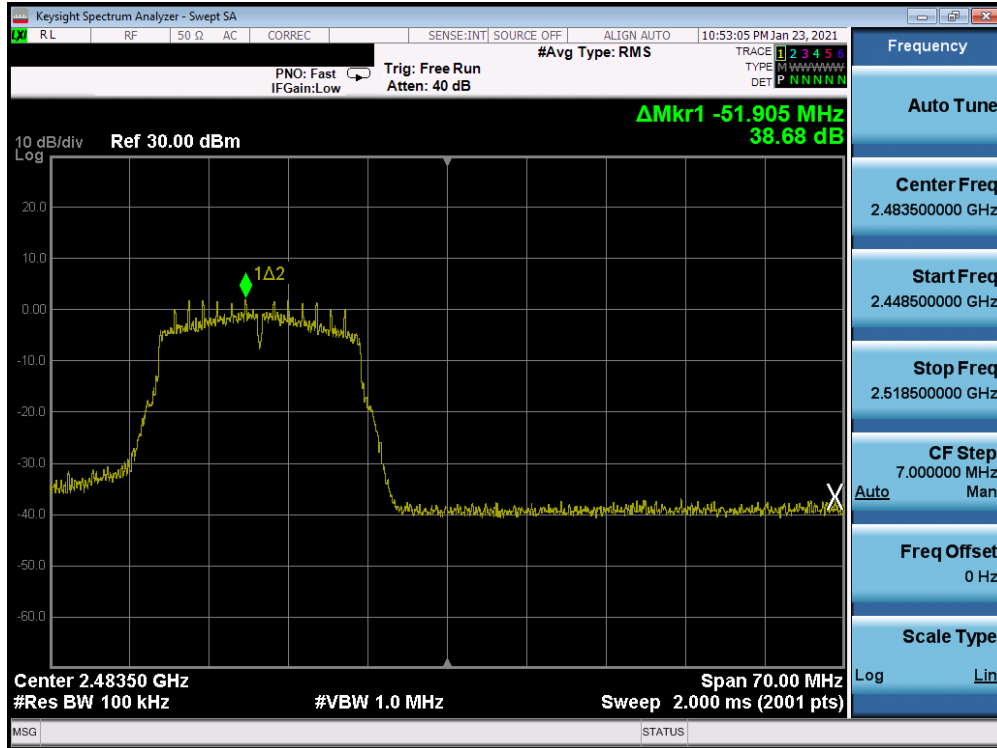


Plot 7-189. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 10) – MCS0

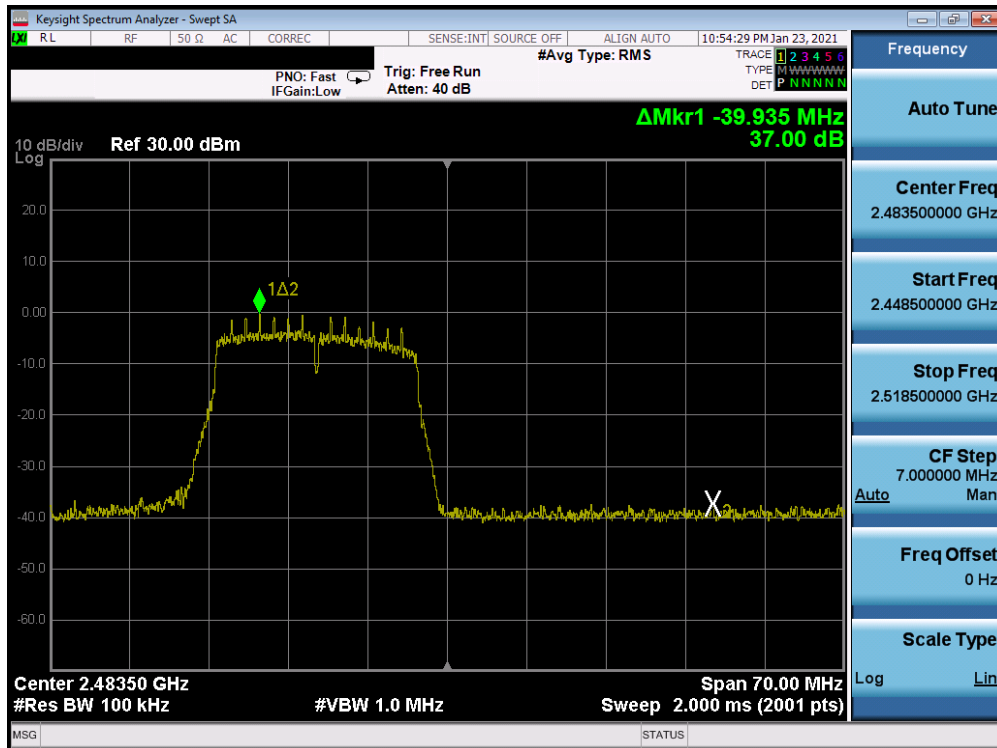


Plot 7-190. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 11) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 142 of 345

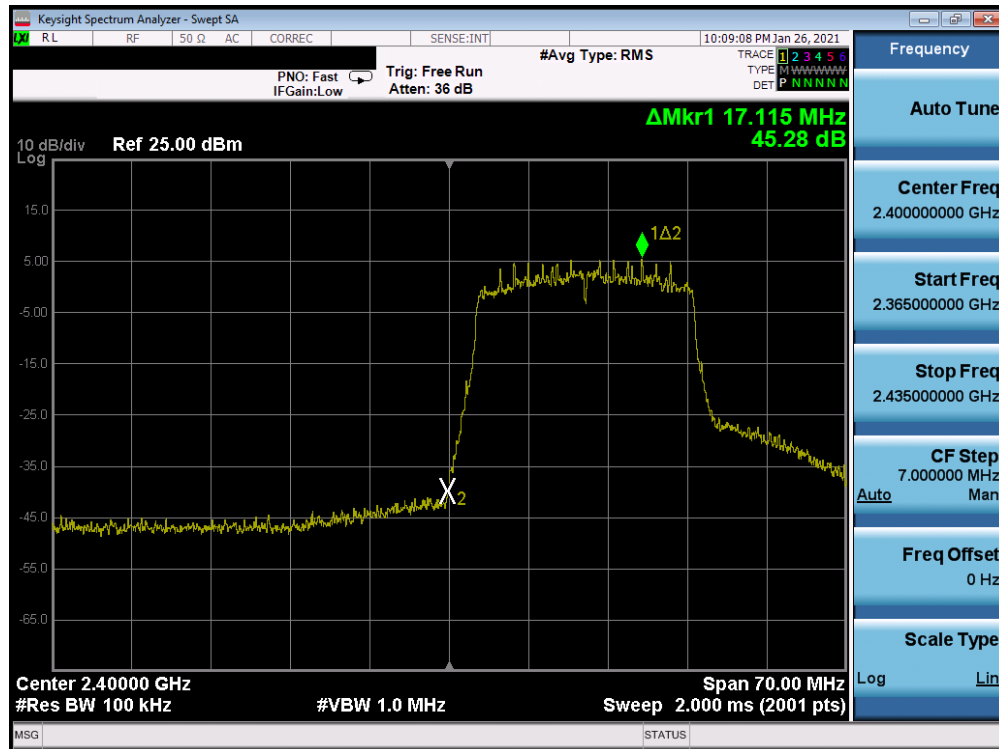


Plot 7-191. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 12) – MCS0

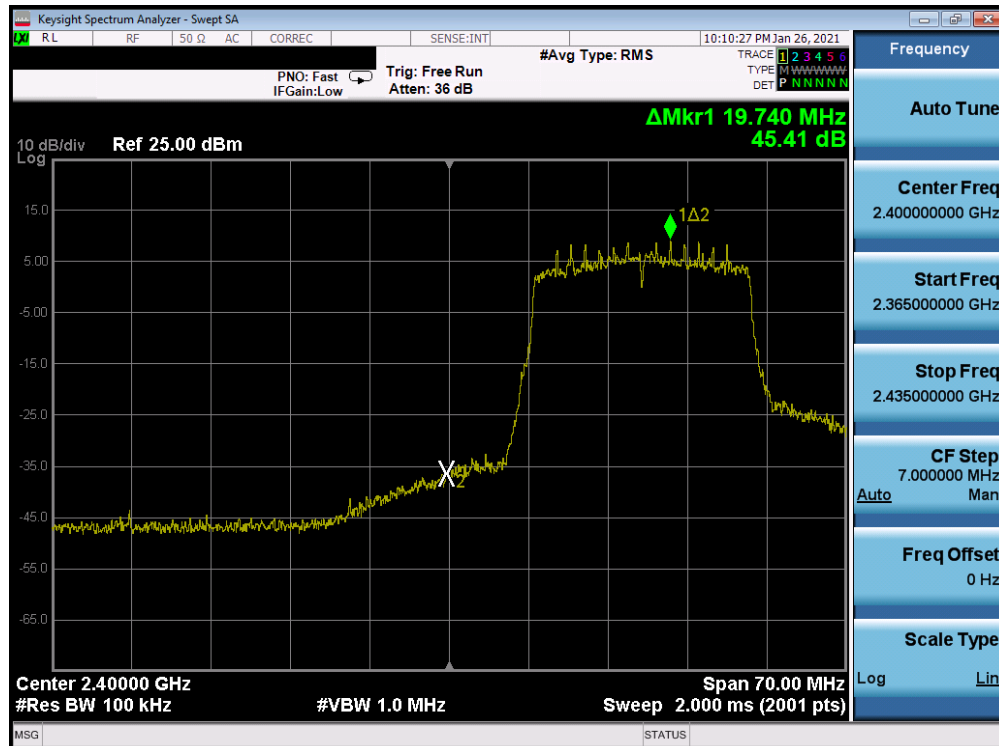


Plot 7-192. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 13) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 143 of 345

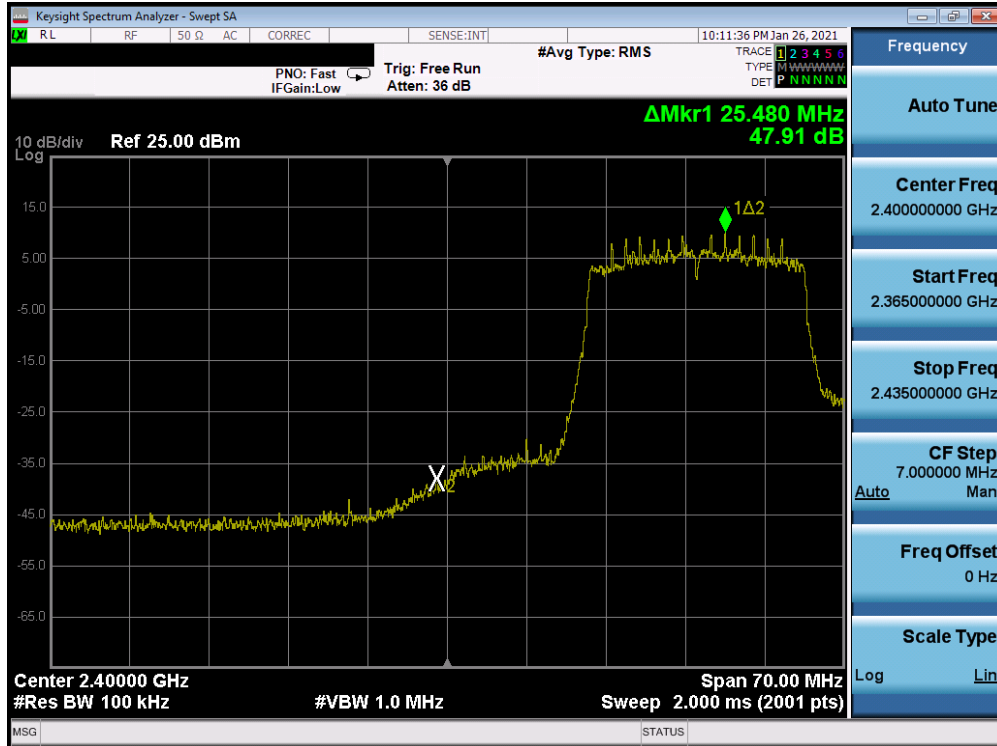


Plot 7-193. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS0

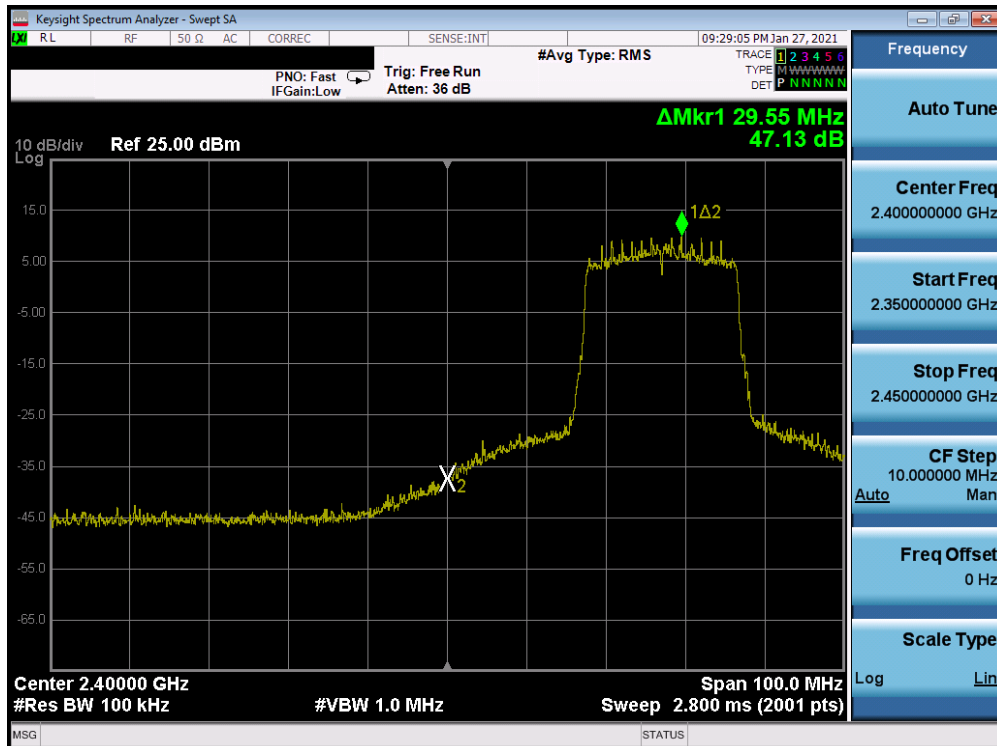


Plot 7-194. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 144 of 345

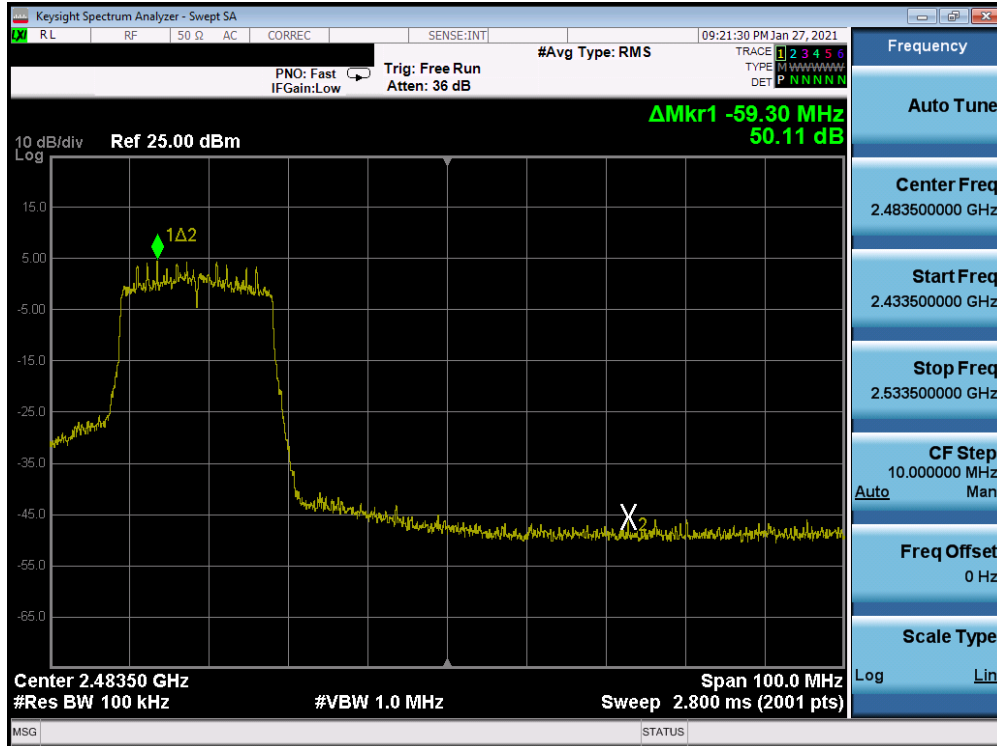


Plot 7-195. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS0

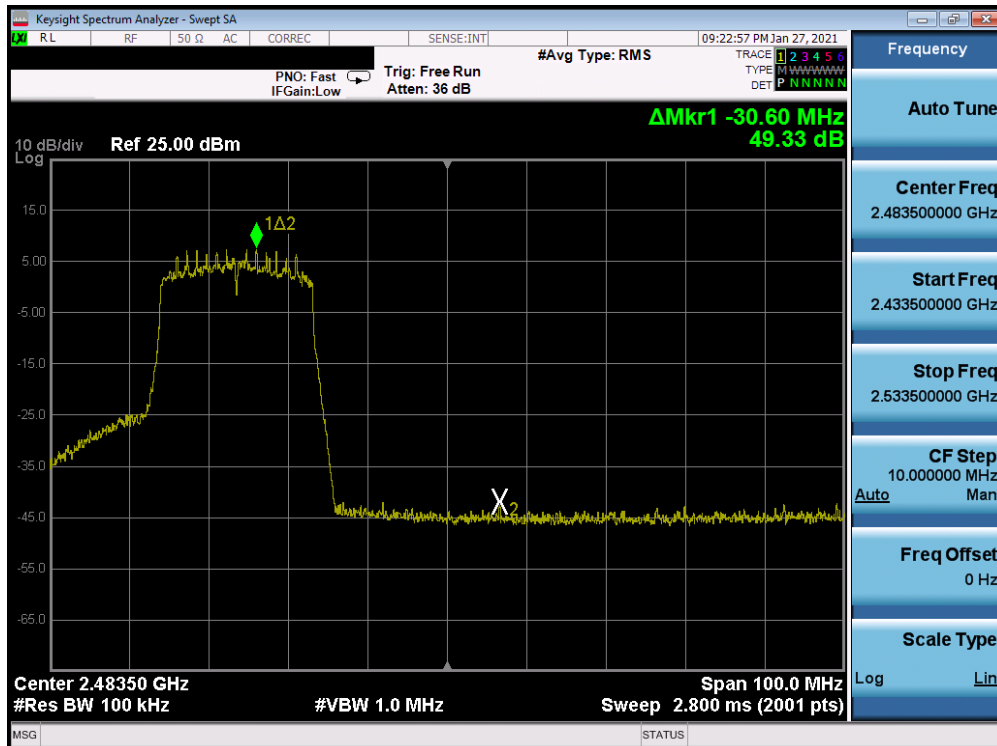


Plot 7-196. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 145 of 345

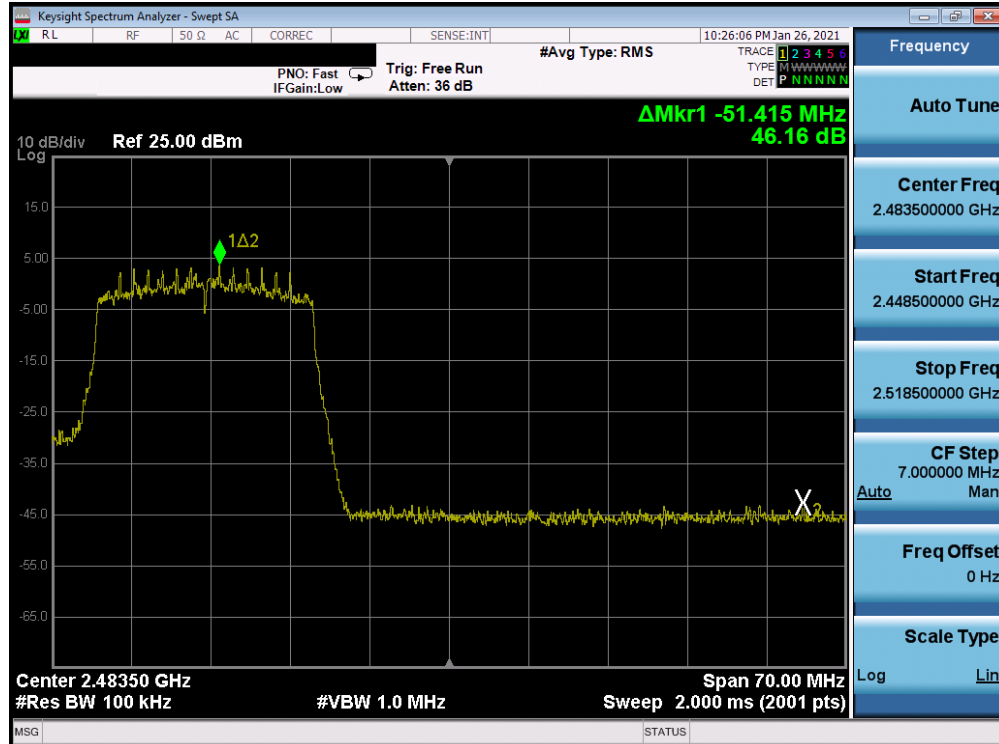


Plot 7-197. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS0

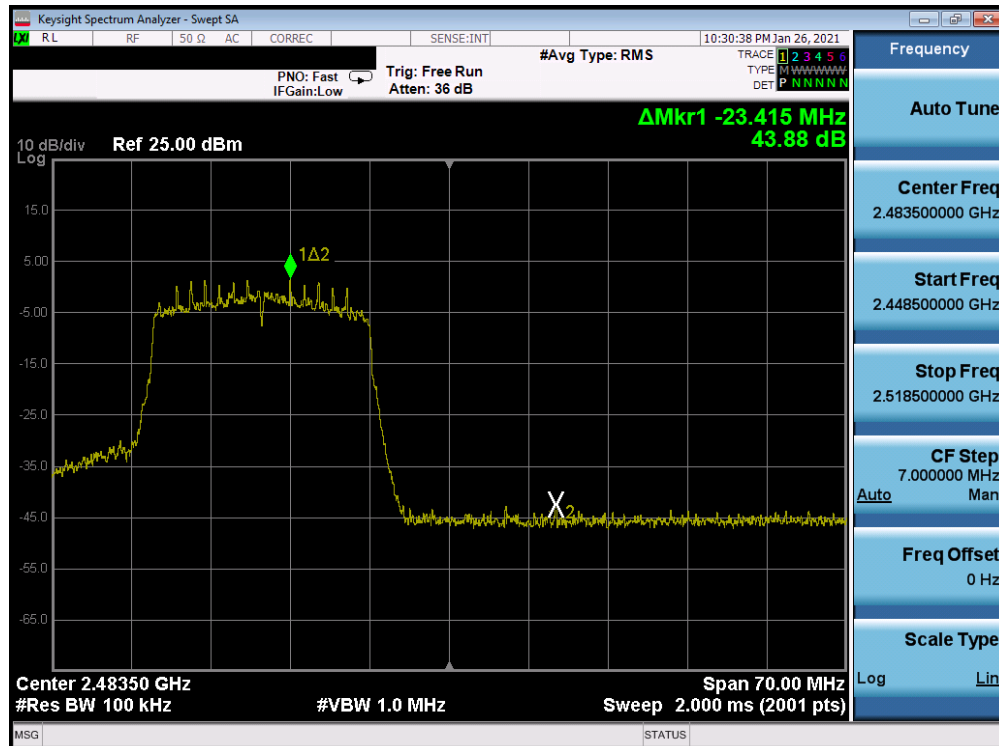


Plot 7-198. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 146 of 345



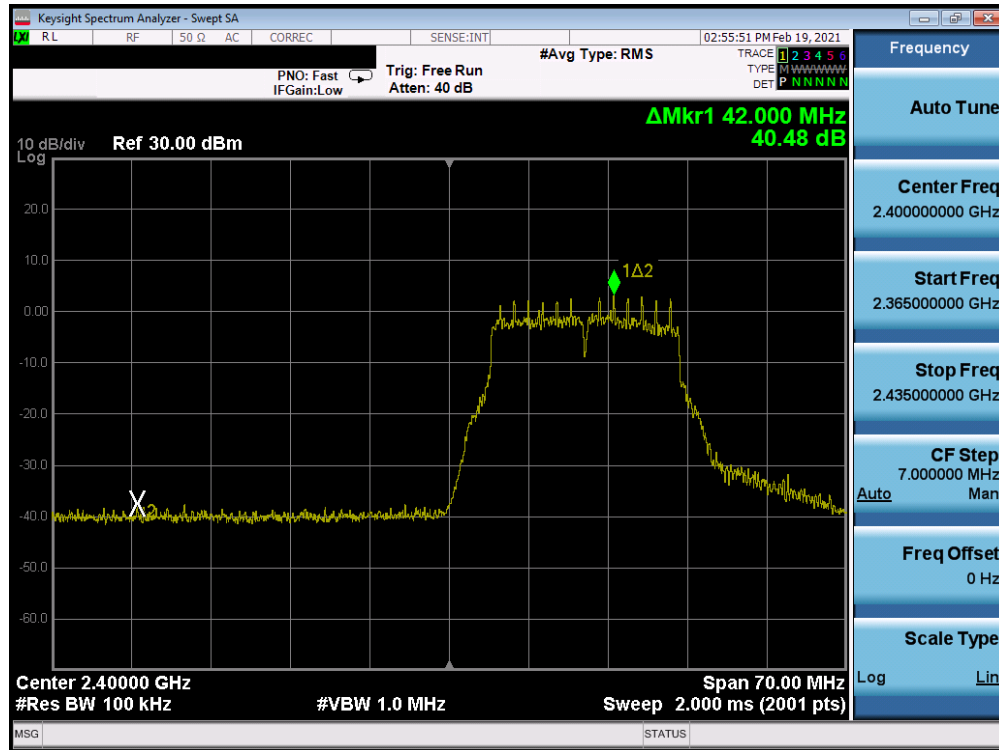
Plot 7-199. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS0



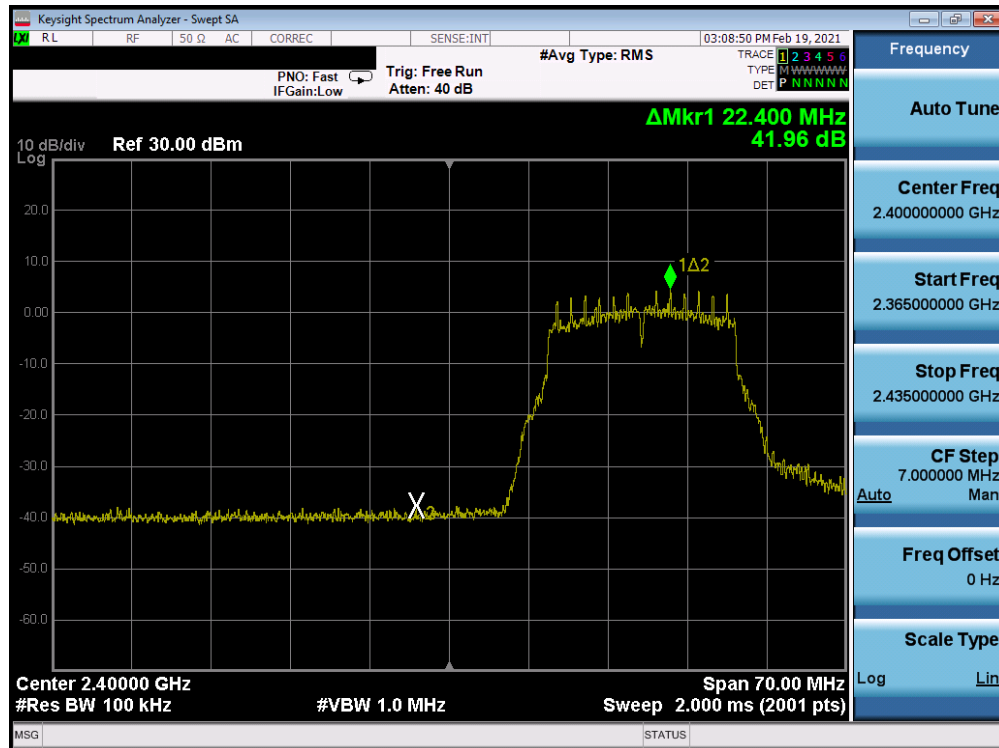
Plot 7-200. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 147 of 345

Mid Data Rate



Plot 7-201. Band Edge Plot Antenna 4a (802.11g– Ch. 1) – 18Mbps



Plot 7-202. Band Edge Plot Antenna 4a (802.11g– Ch. 2) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 148 of 345