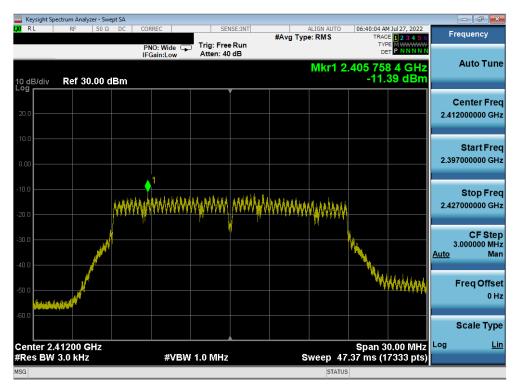


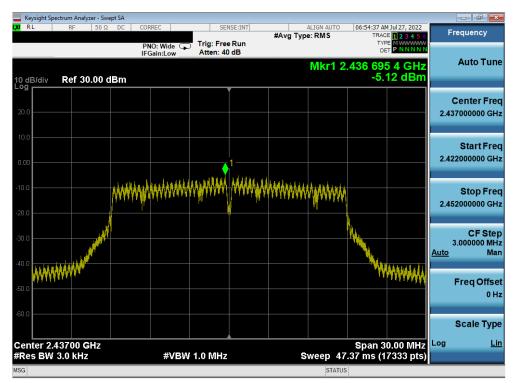
Plot 7-93. Power Spectral Density Plot Antenna 2a (802.11g - Ch. 11) - 12Mbps



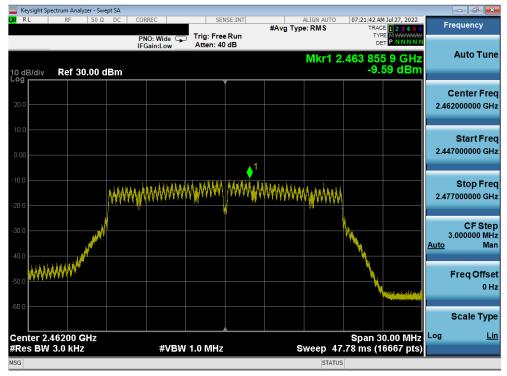
Plot 7-94. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 1) - MCS2

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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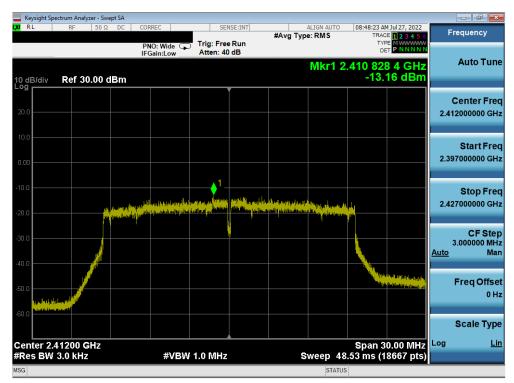
Plot 7-95. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 6) - MCS2



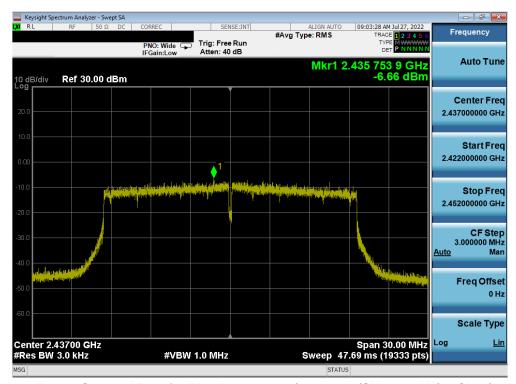
Plot 7-96. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 11) - MCS2

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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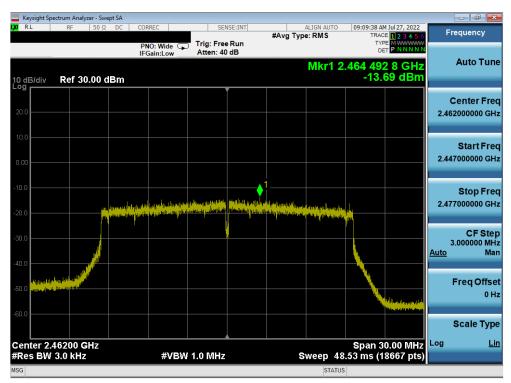
Plot 7-97. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS2



Plot 7-98. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS2

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 92 of 429
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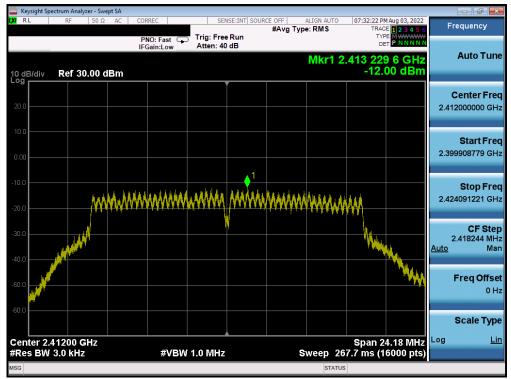


Plot 7-99. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS2

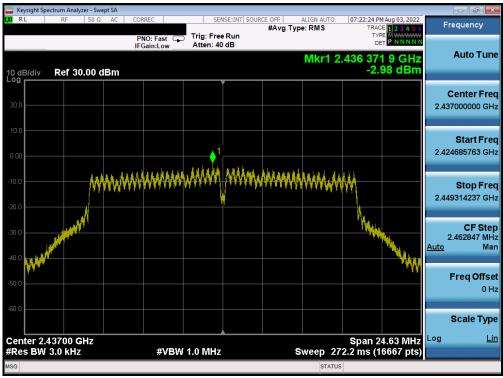
FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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### Mid Data Rate



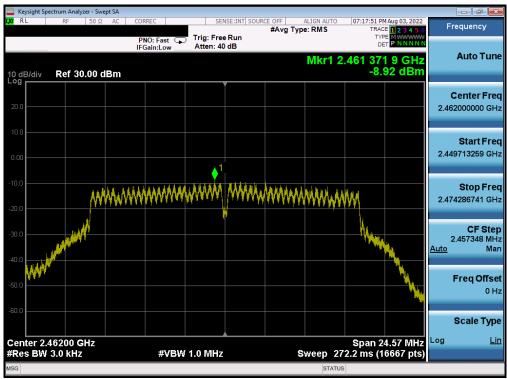
Plot 7-100. Power Spectral Density Plot Antenna 2a (802.11g - Ch. 1) - 18Mbps



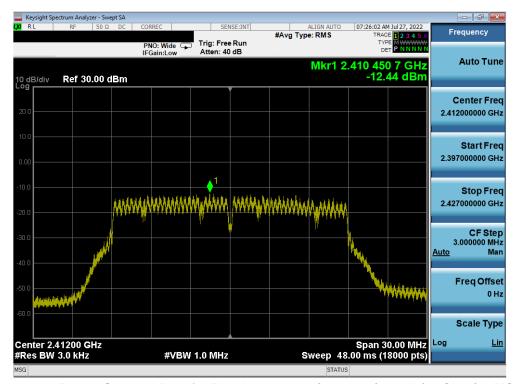
Plot 7-101. Power Spectral Density Plot Antenna 2a (802.11g - Ch. 6) - 18Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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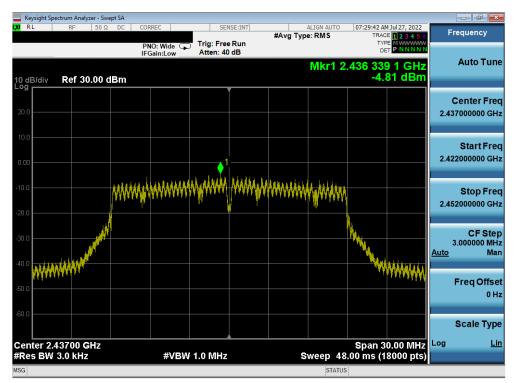
Plot 7-102. Power Spectral Density Plot Antenna 2a (802.11g - Ch. 11) - 18Mbps



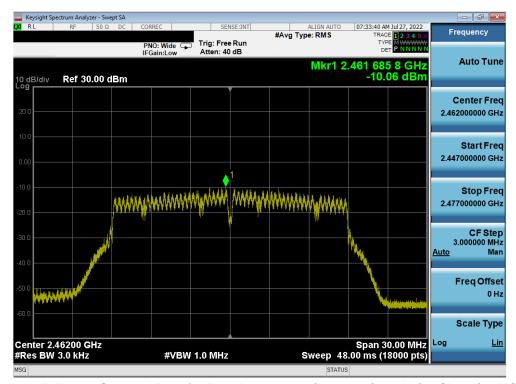
Plot 7-103. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 1) - MCS3

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 95 of 429
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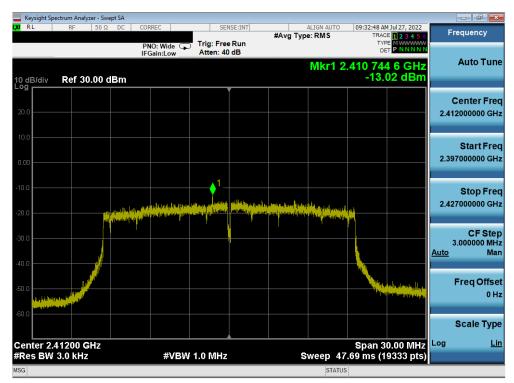
Plot 7-104. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 6) - MCS3



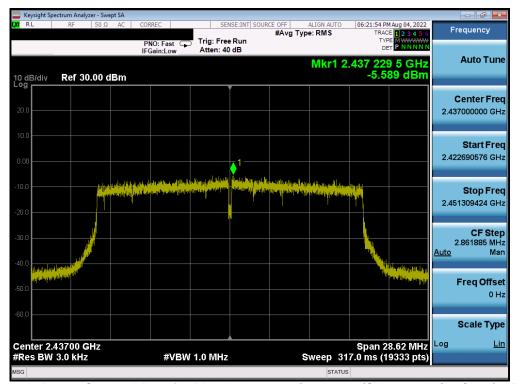
Plot 7-105. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 11) - MCS3

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 96 of 429
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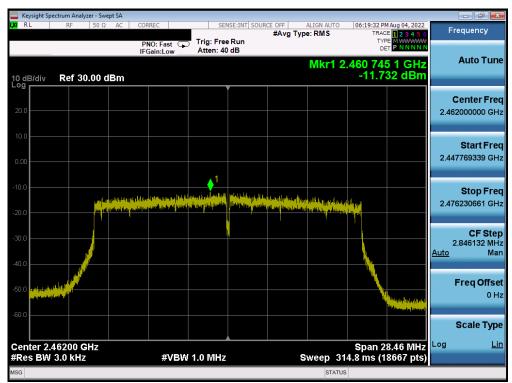
Plot 7-106. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS3



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

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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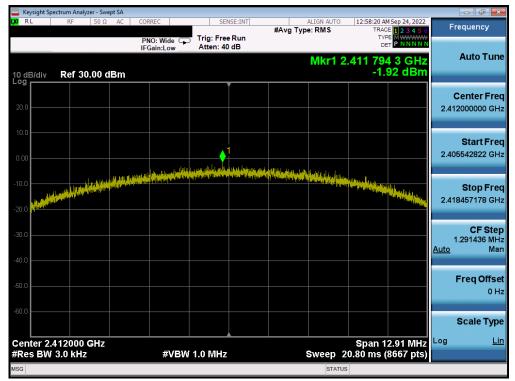


Plot 7-108. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS3

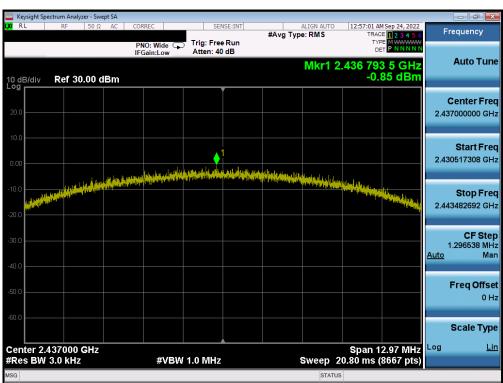
FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 98 of 429
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## **High Data Rate**



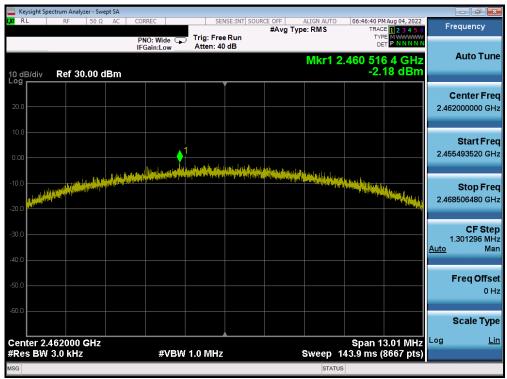
Plot 7-109. Power Spectral Density Plot Antenna 2a (802.11b - Ch. 1) - 11Mbps



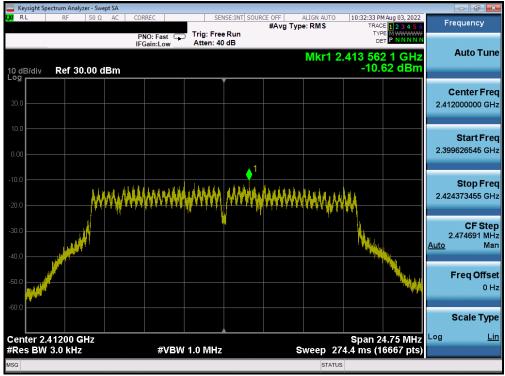
Plot 7-110. Power Spectral Density Plot Antenna 2a (802.11b - Ch. 6) - 11Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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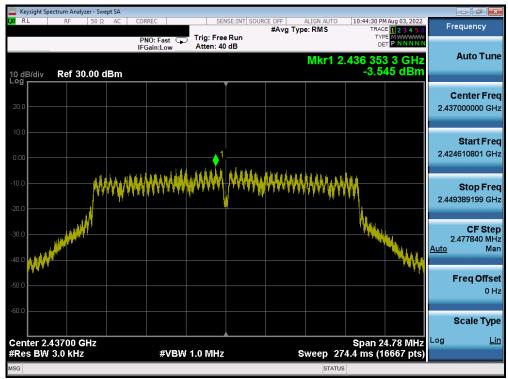
Plot 7-111. Power Spectral Density Plot Antenna 2a (802.11b - Ch. 11) - 11Mbps



Plot 7-112. Power Spectral Density Plot Antenna 2a (802.11g - Ch. 1) - 36Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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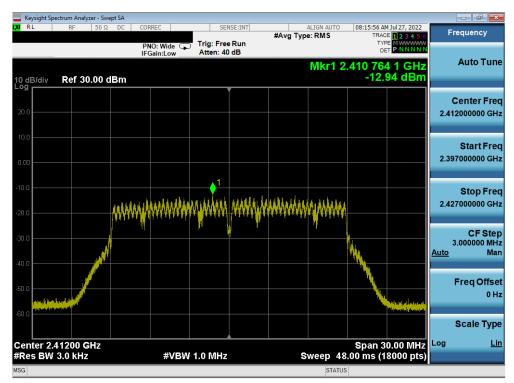
Plot 7-113. Power Spectral Density Plot Antenna 2a (802.11g - Ch. 6) - 36Mbps



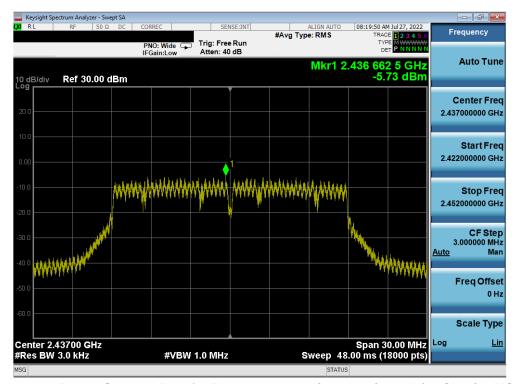
Plot 7-114. Power Spectral Density Plot Antenna 2a (802.11g - Ch. 11) - 36Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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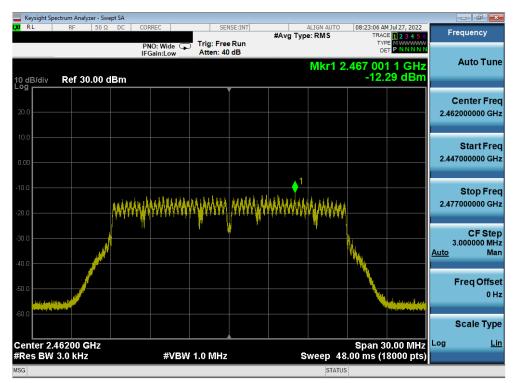
Plot 7-115. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 1) - MCS5



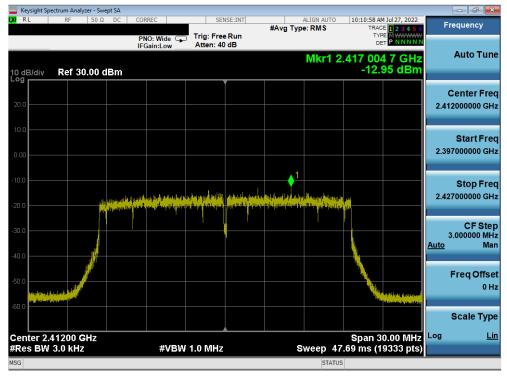
Plot 7-116. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 6) - MCS5

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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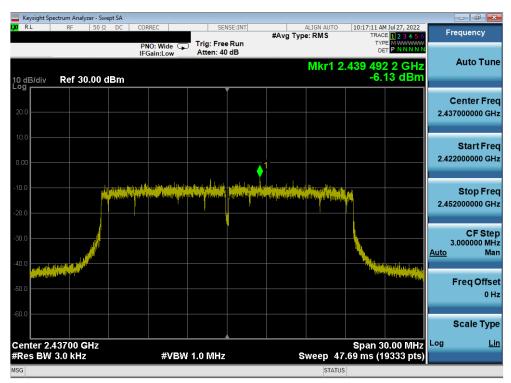
Plot 7-117. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) - Ch. 11) - MCS5



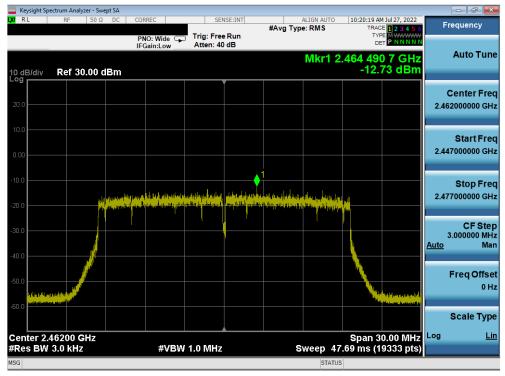
Plot 7-118. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS5

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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# **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	12	-11.06	-11.22	-8.13	8.00	-16.13	Pass
2437	6	g	12	-3.21	-2.49	0.18	8.00	-7.82	Pass
2462	11	g	12	-7.90	-8.75	-5.29	8.00	-13.29	Pass
2412	1	n	39/43.3 (MCS10)	-14.28	-13.33	-10.77	8.00	-18.77	Pass
2437	6	n	39/43.3 (MCS10)	-5.43	-4.35	-1.84	8.00	-9.84	Pass
2462	11	n	39/43.3 (MCS10)	-7.06	-7.50	-4.27	8.00	-12.27	Pass
2412	1	ax (SU)	48/51.6 (MCS2)	-11.67	-10.88	-8.24	8.00	-16.24	Pass
2437	6	ax (SU)	48/51.6 (MCS2)	-6.71	-7.56	-4.10	8.00	-12.10	Pass
2462	11	ax (SU)	48/51.6 (MCS2)	-14.34	-13.87	-11.09	8.00	-19.09	Pass

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

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Ant1 Power Spectral Density [dBm / 3kHz]	Ant2 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	-11.24	-12.03	-8.60	8.00	-16.60	Pass
2437	6	g	18	-2.50	-2.94	0.30	8.00	-7.70	Pass
2462	11	g	18	-9.82	-9.13	-6.45	8.00	-14.45	Pass
2412	1	n	52/57.8 (MCS11)	-13.60	-12.58	-10.05	8.00	-18.05	Pass
2437	6	n	52/57.8 (MCS11)	-5.15	-4.07	-1.57	8.00	-9.57	Pass
2462	11	n	52/57.8 (MCS11)	-11.34	-10.66	-7.98	8.00	-15.98	Pass
2412	1	ax (SU)	66/68.8 (MCS3)	-11.56	-10.39	-7.92	8.00	-15.92	Pass
2437	6	ax (SU)	66/68.8 (MCS3)	-8.04	-6.87	-4.41	8.00	-12.41	Pass
2462	11	ax (SU)	66/68.8 (MCS3)	-10.78	-10.77	-7.76	8.00	-15.76	Pass

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

FCC ID: BCG2764 IC: 579C-A2764	element	element MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 105 of 120
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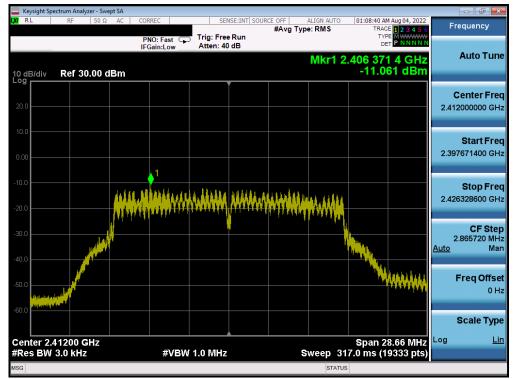
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna 4a Power Spectral Density [dBm / 3kHz]	Antenna 2a Power Spectral Density [dBm / 3kHz]	Summed CDD Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	36	-10.85	-10.83	-7.83	8.00	-15.83	Pass
2437	6	g	36	-3.48	-3.49	-0.48	8.00	-8.48	Pass
2462	11	g	36	-9.92	-10.60	-7.23	8.00	-15.23	Pass
2412	1	n	104/115.6 (MCS13)	-13.61	-12.85	-10.20	8.00	-18.20	Pass
2437	6	n	104/115.6 (MCS13)	-3.22	-2.12	0.38	8.00	-7.62	Pass
2462	11	n	104/115.6 (MCS13)	-13.14	-11.99	-9.52	8.00	-17.52	Pass
2412	1	ax (SU)	130/137.6 (MCS5)	-15.44	-14.20	-11.77	8.00	-19.77	Pass
2437	6	ax (SU)	130/137.6 (MCS5)	-7.86	-7.69	-4.76	8.00	-12.76	Pass
2462	11	ax (SU)	130/137.6 (MCS5)	-14.40	-13.57	-10.96	8.00	-18.96	Pass

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

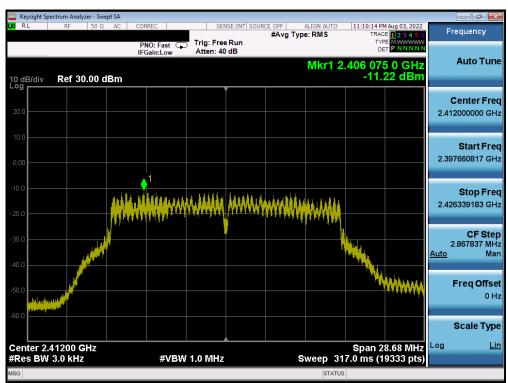
FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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### **Low Data Rate**



Plot 7-121. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 1) - 12Mbps



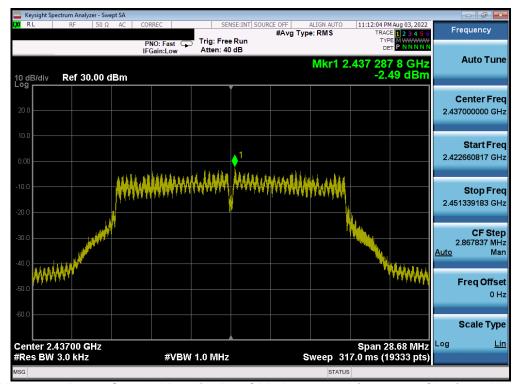
Plot 7-122. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 1) - 12Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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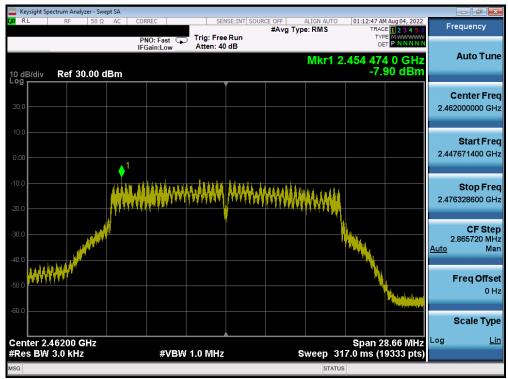
Plot 7-123. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 6) - 12Mbps



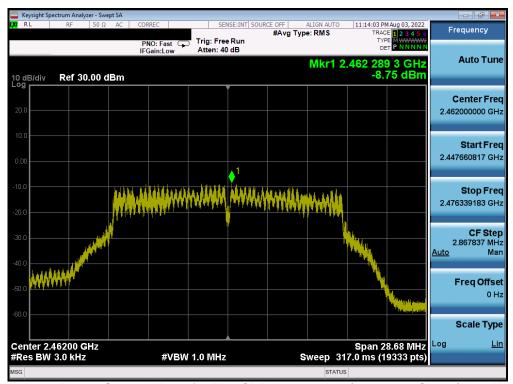
Plot 7-124. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 6) - 12Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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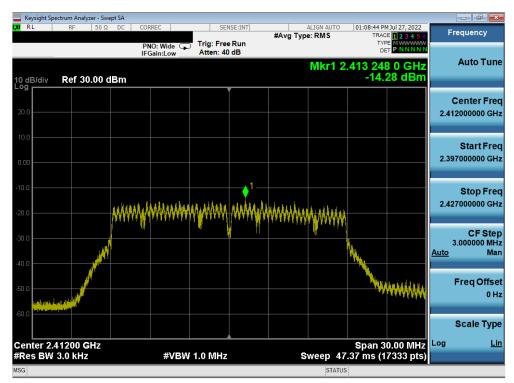
Plot 7-125. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 11) - 12Mbps



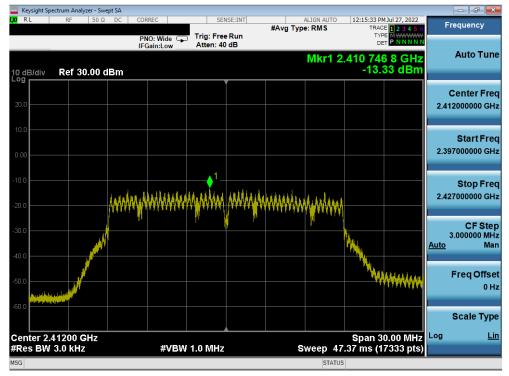
Plot 7-126. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 11) - 12Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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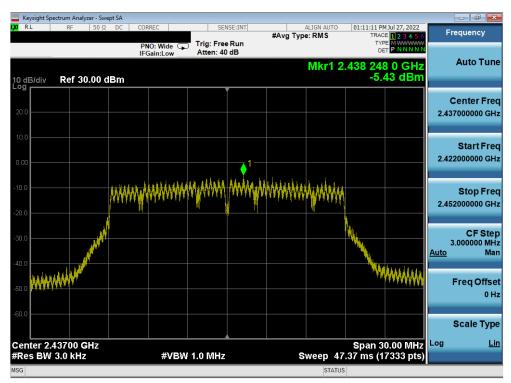
Plot 7-127. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 1) - MCS10



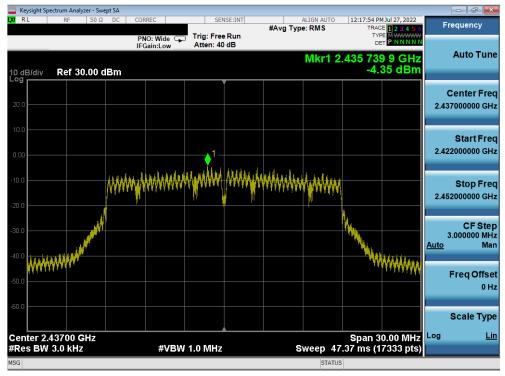
Plot 7-128. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 1) - MCS10

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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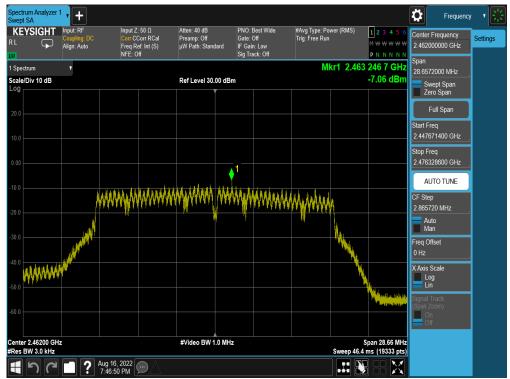
Plot 7-129. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 6) - MCS10



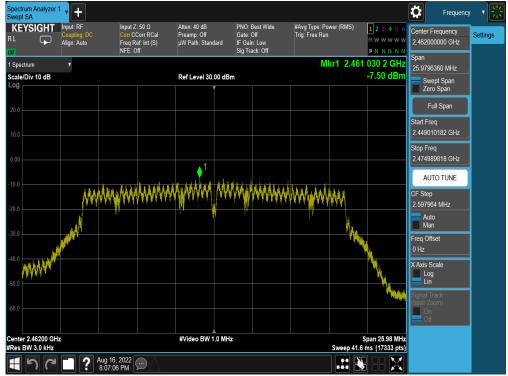
Plot 7-130. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 6) - MCS10

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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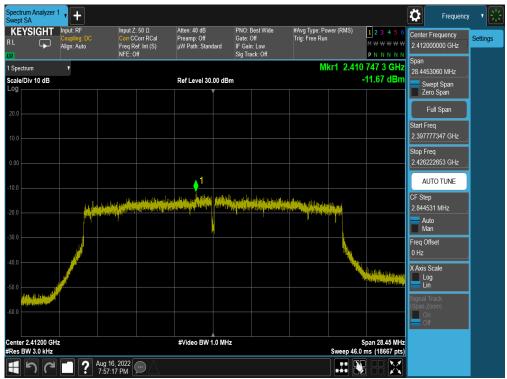
Plot 7-131. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 11) - MCS10



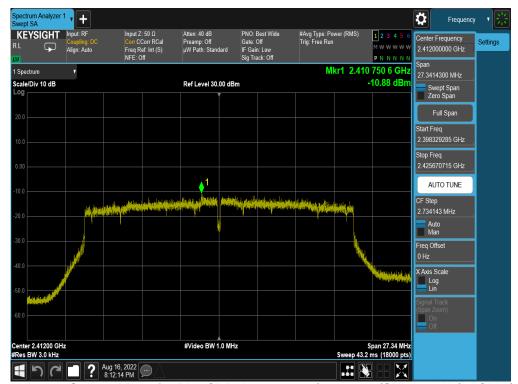
Plot 7-132. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 11) - MCS10

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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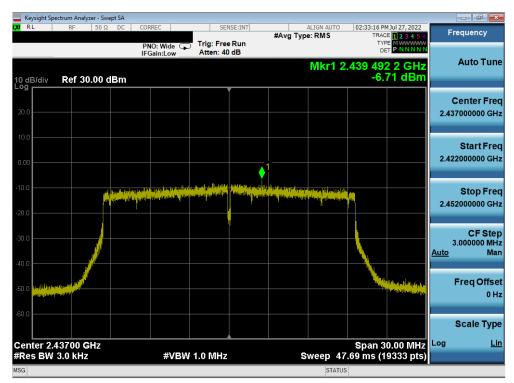
Plot 7-133. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS2



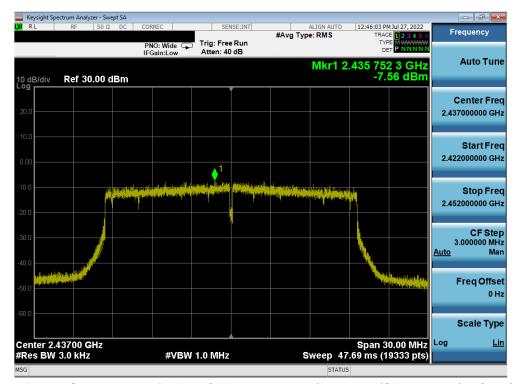
Plot 7-134. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS2

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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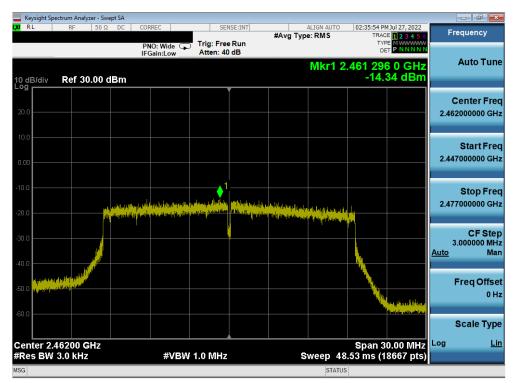
Plot 7-135. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS2



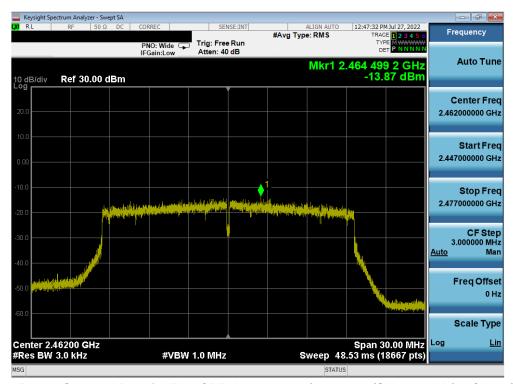
Plot 7-136. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS2

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-137. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS2

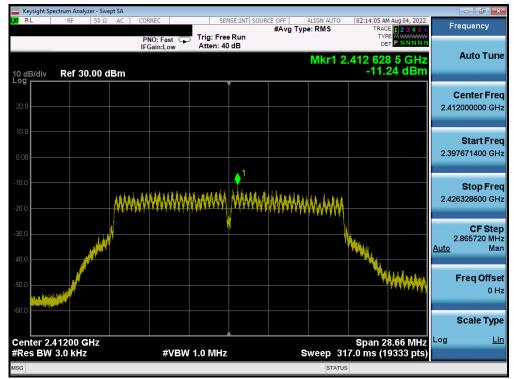


Plot 7-138. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS2

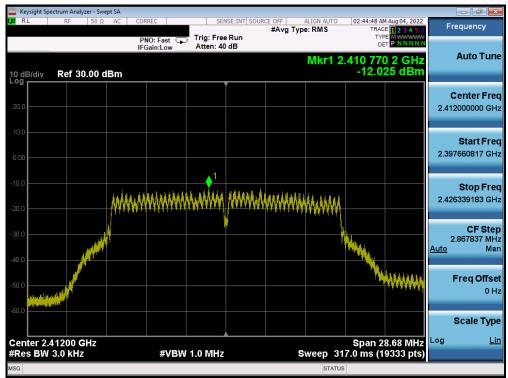
FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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### Mid Data Rate



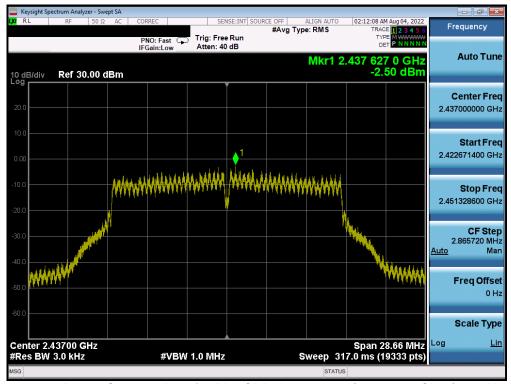
Plot 7-139. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 1) - 18Mbps



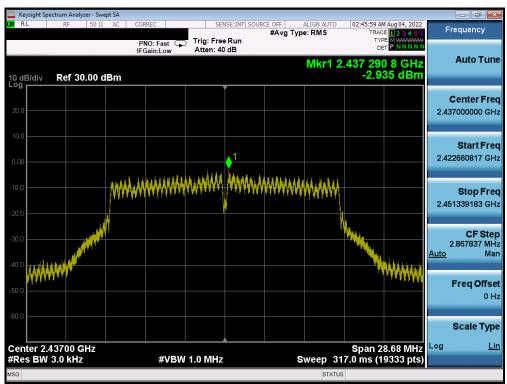
Plot 7-140. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 1) - 18Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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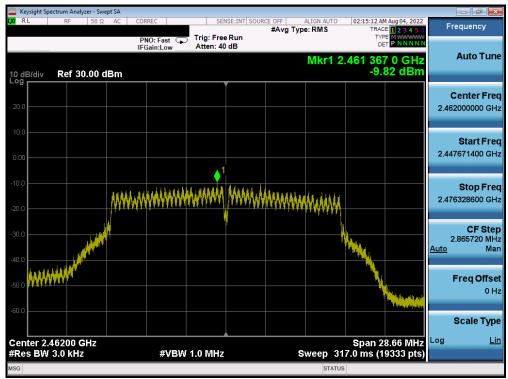
Plot 7-141. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 6) - 18Mbps



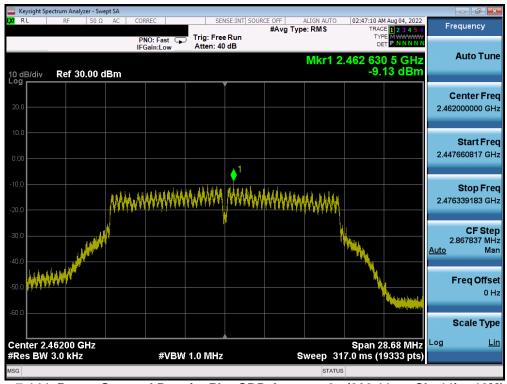
Plot 7-142. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 6) - 18Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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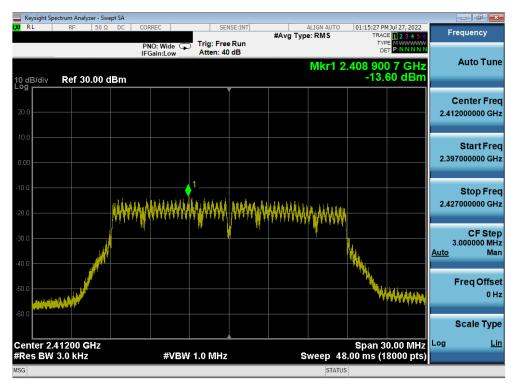
Plot 7-143. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 11) - 18Mbps



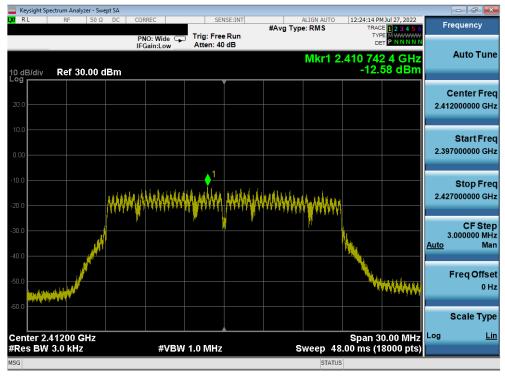
Plot 7-144. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 11) - 18Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	element MEASUREMENT REPORT (CERTIFICATION)	
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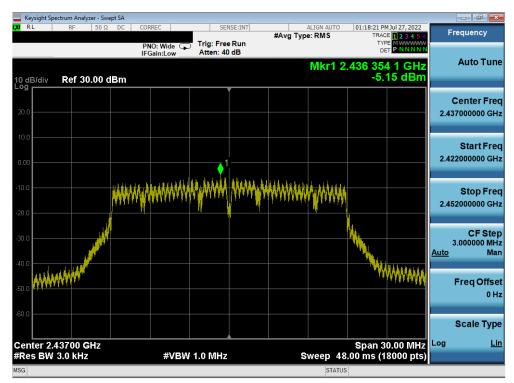
Plot 7-145. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 1) - MCS11



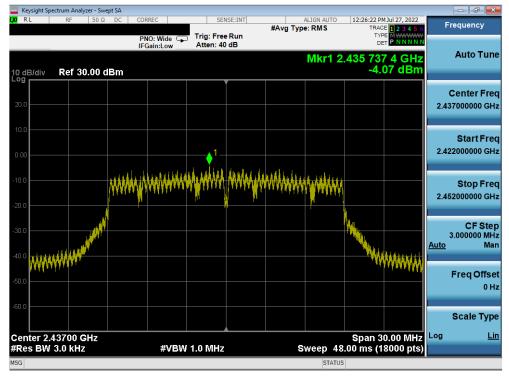
Plot 7-146. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 1) - MC11

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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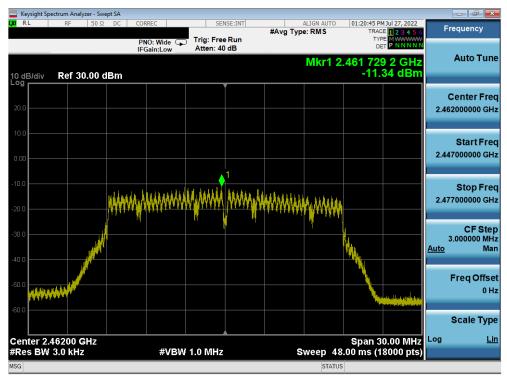
Plot 7-147. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 6) - MCS11



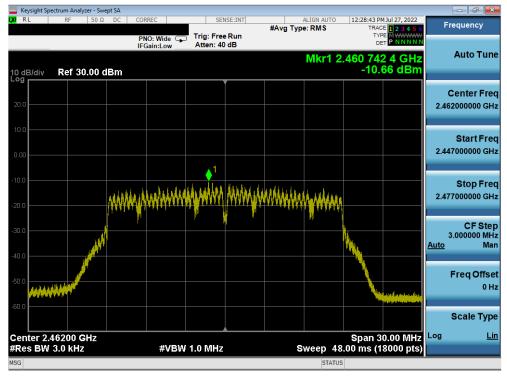
Plot 7-148. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 6) - MCS11

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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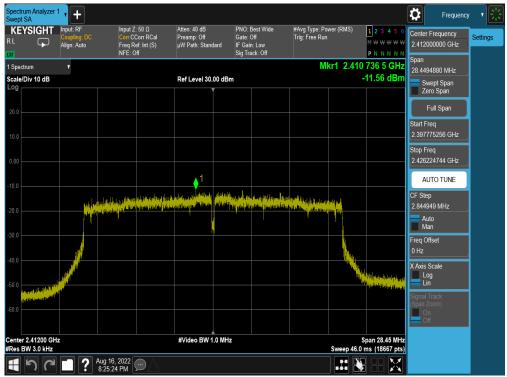
Plot 7-149. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 11) - MCS11



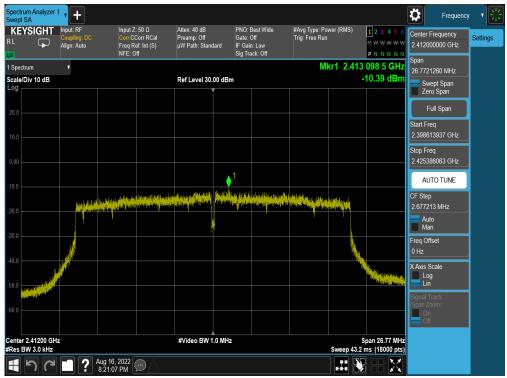
Plot 7-150. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 11) - MCS11

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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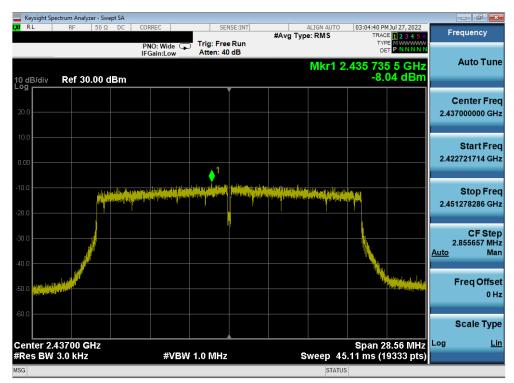
Plot 7-151. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS3



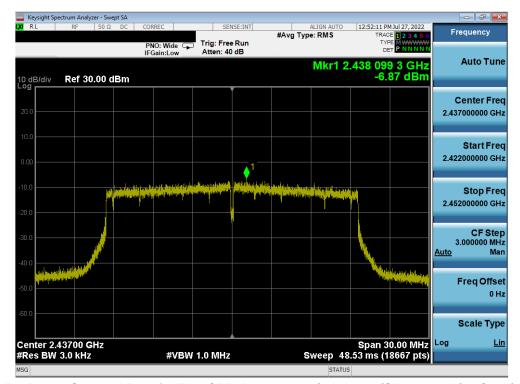
Plot 7-152. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS3

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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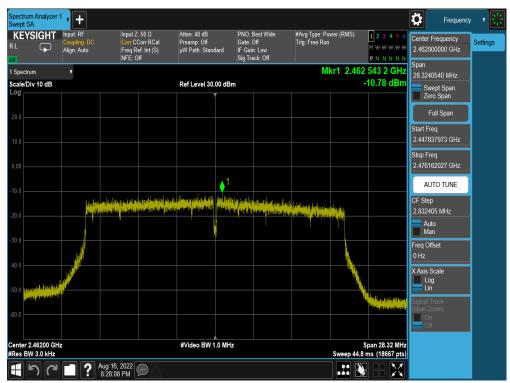
Plot 7-153. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS3



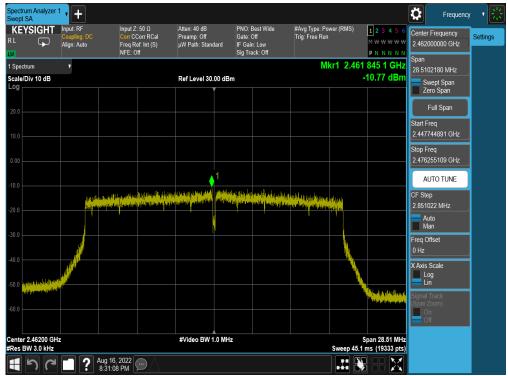
Plot 7-154. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS3

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-155. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS3

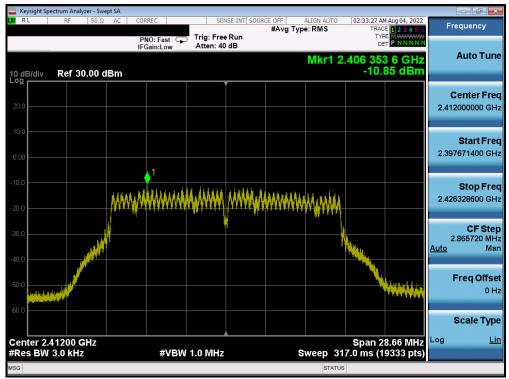


Plot 7-156. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS3

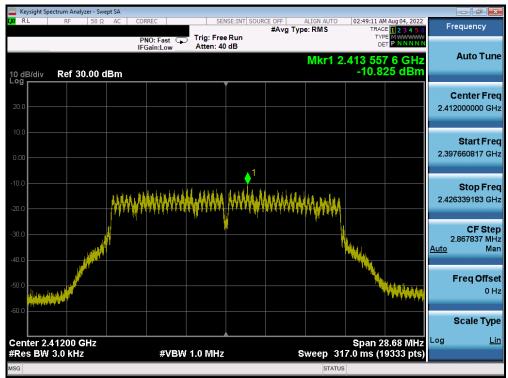
FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## **High Data Rate**



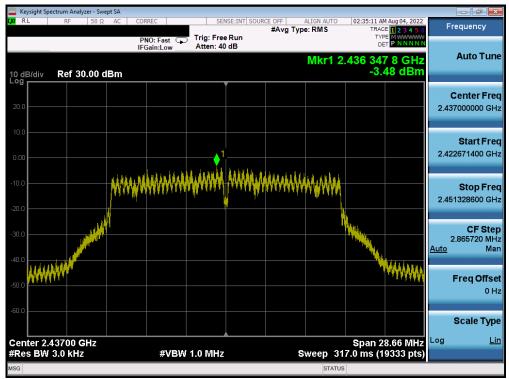
Plot 7-157. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 1) - 36Mbps



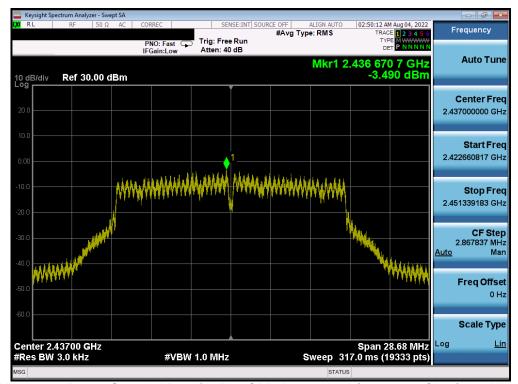
Plot 7-158. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 1) - 36Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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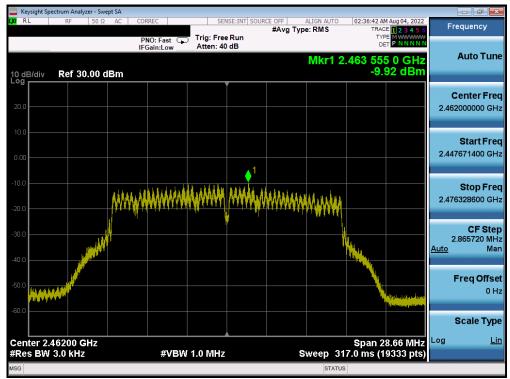
Plot 7-159. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 6) - 36Mbps



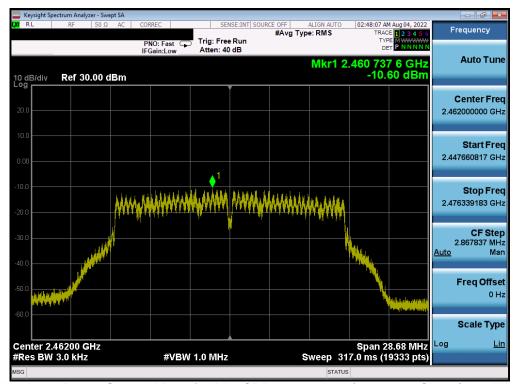
Plot 7-160. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 6) - 36Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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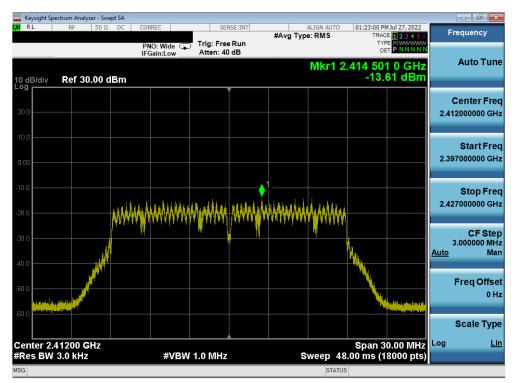
Plot 7-161. Power Spectral Density Plot CDD Antenna 4a (802.11g - Ch. 11) - 36Mbps



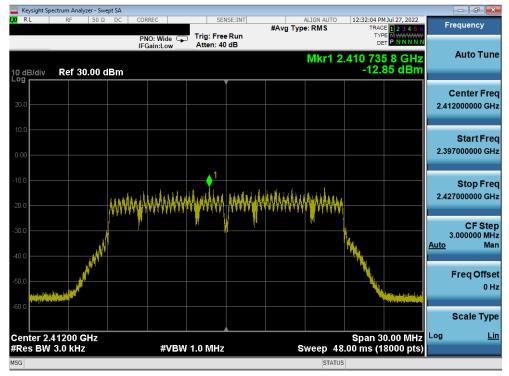
Plot 7-162. Power Spectral Density Plot CDD Antenna 2a (802.11g - Ch. 11) - 36Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-163. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 1) - MCS13



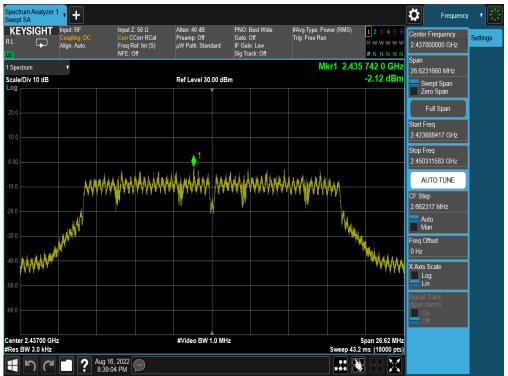
Plot 7-164. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 1) - MCS13

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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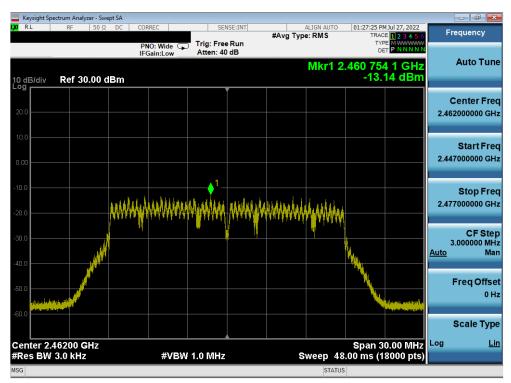
Plot 7-165. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 6) - MCS13



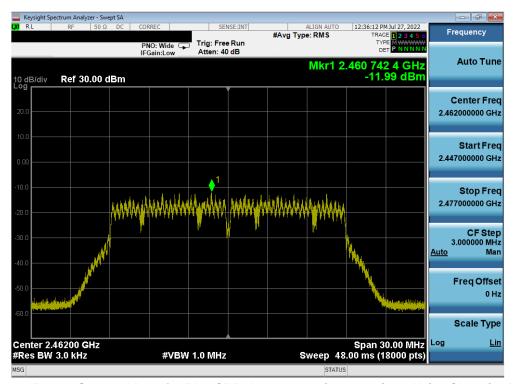
Plot 7-166. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 6) - MCS13

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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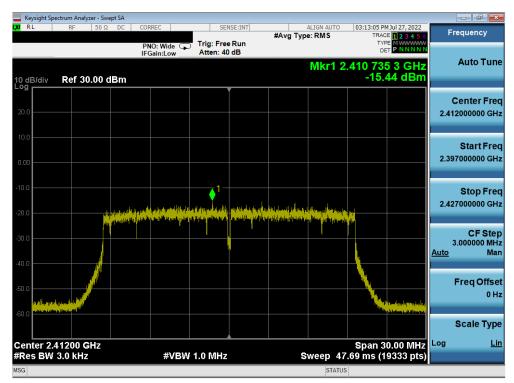
Plot 7-167. Power Spectral Density Plot CDD Antenna 4a (802.11n (2.4GHz) - Ch. 11) - MCS13



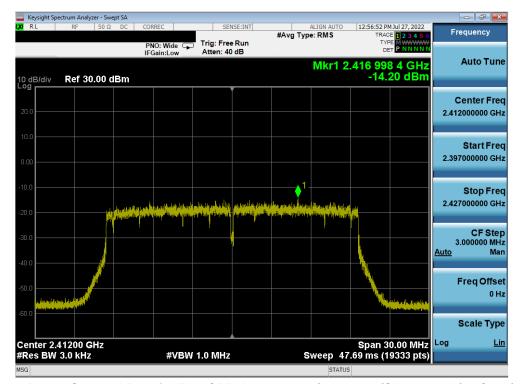
Plot 7-168. Power Spectral Density Plot CDD Antenna 2a (802.11n (2.4GHz) - Ch. 11) - MCS13

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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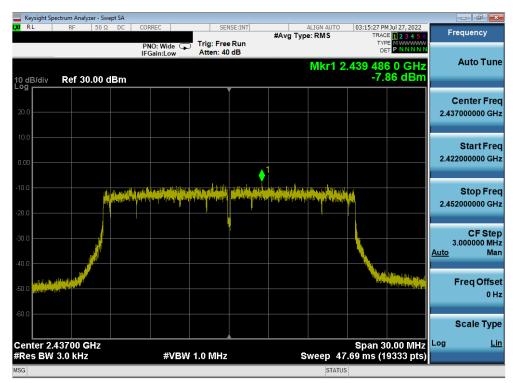
Plot 7-169. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS5



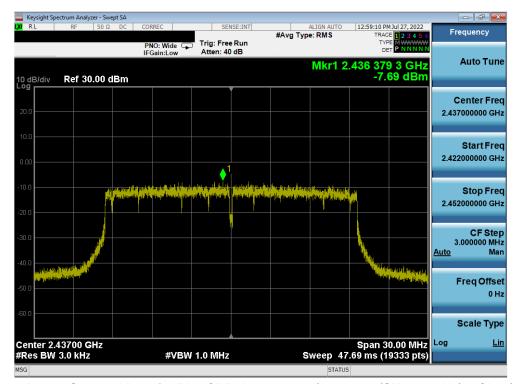
Plot 7-170. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS5

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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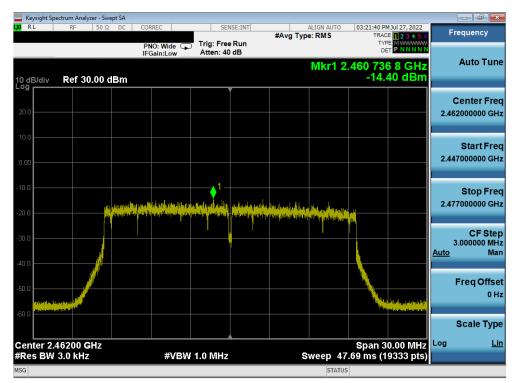
Plot 7-171. Power Spectral Density Plot CDD Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS5



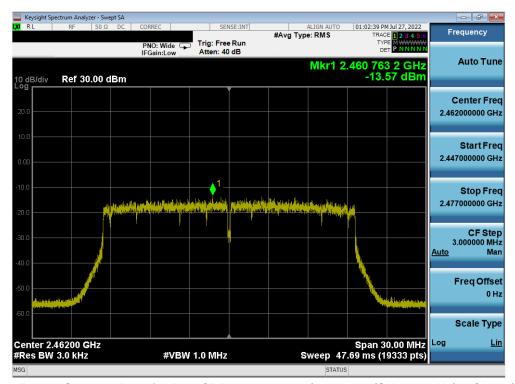
Plot 7-172. Power Spectral Density Plot CDD Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS5

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical 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: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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#### 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 -11.06 dBm for Antenna 4a and -11.22 dBm for Antenna 2a.

$$(-11.06 \text{ dBm} + -11.22 \text{ dBm}) = (0.078 \text{ mW} + 0.076 \text{ mW}) = 0.154 \text{ mW} = -8.13 \text{ dBm}$$

FCC ID: BCG2764 IC: 579C-A2764	element	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, 18, 36 Mbps for "g" mode, 19.5/21.7, 26/28.9, 52/57.8Mbps for "n" mode, and 24/25.8, 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 – 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 ≥ 2 x 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

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### **Test Notes**

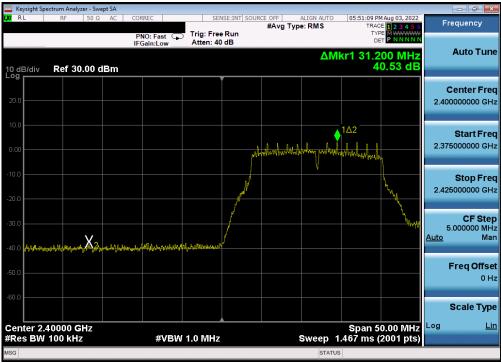
- 1. All antenna configurations were investigated and only the worst case is reported.
- 2. The data rates have been classified into three different groups: low data rate, middle data rate, and high data rate. All three data rate groups have been investigated and only the worst case data rate per group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

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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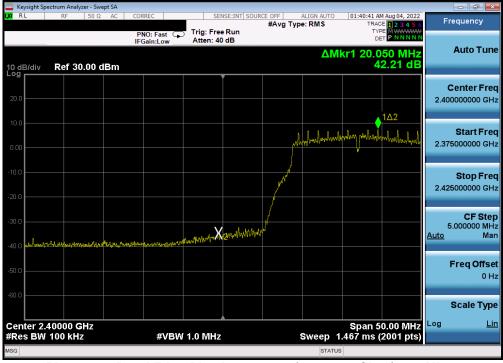


## Antenna 4a Conducted Emissions at the Band Edge

#### **Low Data Rate**



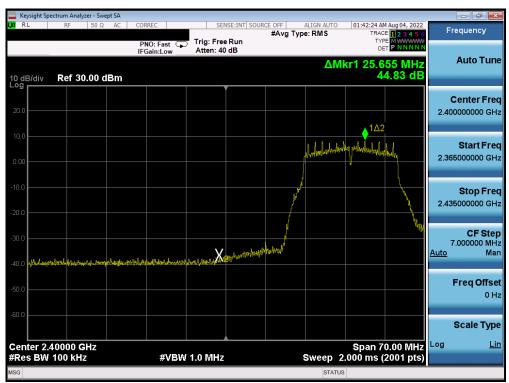
Plot 7-175. Band Edge Plot Antenna 4a (802.11g- Ch. 1) - 12Mbps



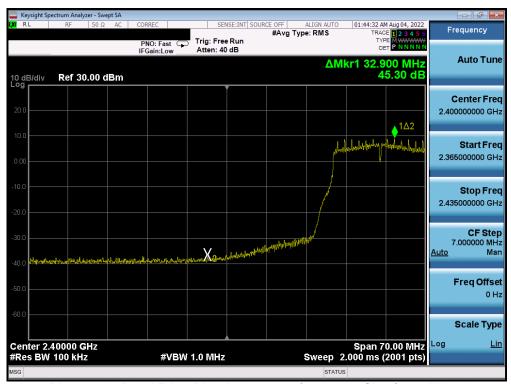
Plot 7-176. Band Edge Plot Antenna 4a (802.11g- Ch. 2) - 12Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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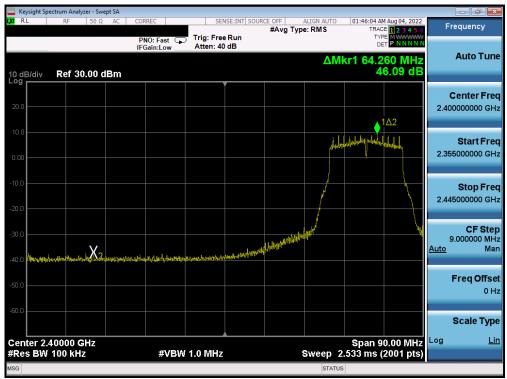
Plot 7-177. Band Edge Plot Antenna 4a (802.11g- Ch. 3) - 12Mbps



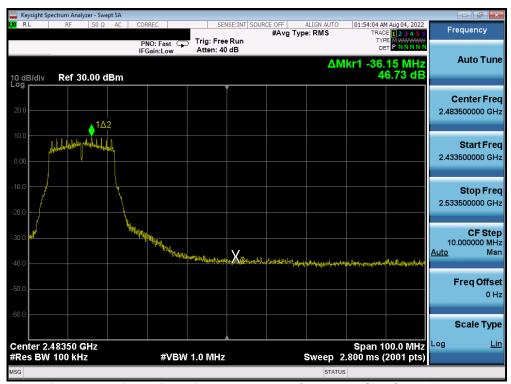
Plot 7-178. Band Edge Plot Antenna 4a (802.11g- Ch. 4) - 12Mbps

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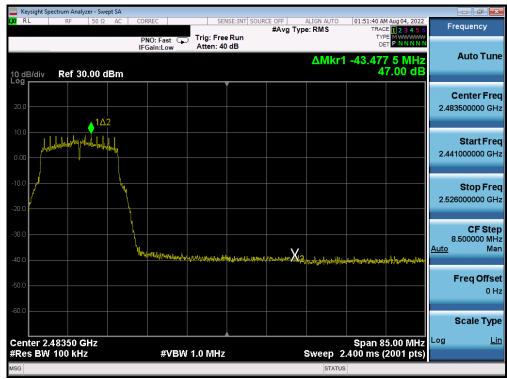
Plot 7-179. Band Edge Plot Antenna 4a (802.11g- Ch. 5) - 12Mbps



Plot 7-180. Band Edge Plot Antenna 4a (802.11g- Ch. 8) - 12Mbps

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Plot 7-181. Band Edge Plot Antenna 4a (802.11g - Ch. 9) - 12Mbps



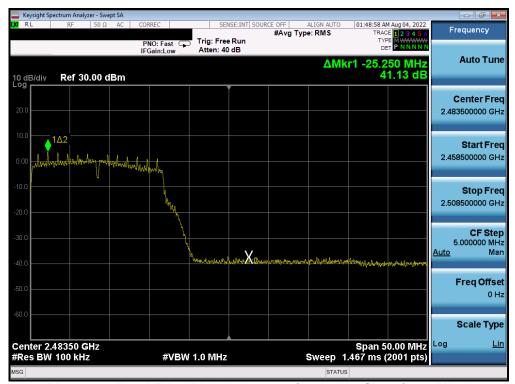
Plot 7-182. Band Edge Plot Antenna 4a (802.11g - Ch. 10) - 12Mbps

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Plot 7-183. Band Edge Plot Antenna 4a (802.11g - Ch. 11) - 12Mbps



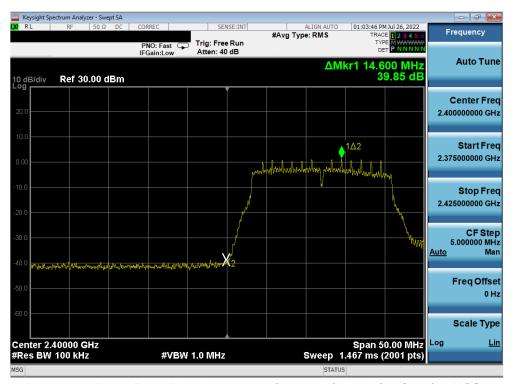
Plot 7-184. Band Edge Plot Antenna 4a (802.11g - Ch. 12) - 12Mbps

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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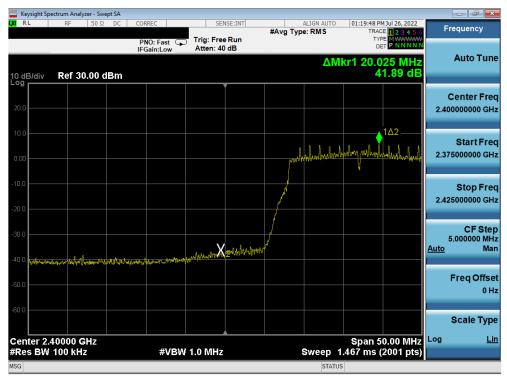
Plot 7-185. Band Edge Plot Antenna 4a (802.11g - Ch. 13) - 12Mbps



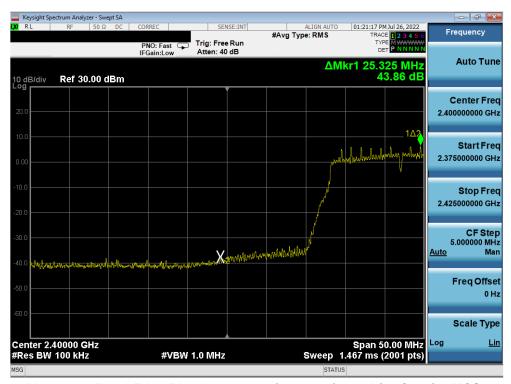
Plot 7-186. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 1) - MCS2

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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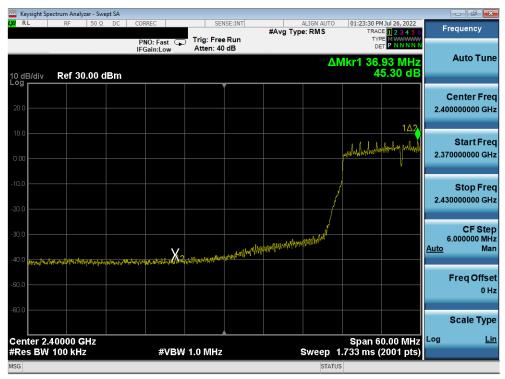
Plot 7-187. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 2) - MCS2



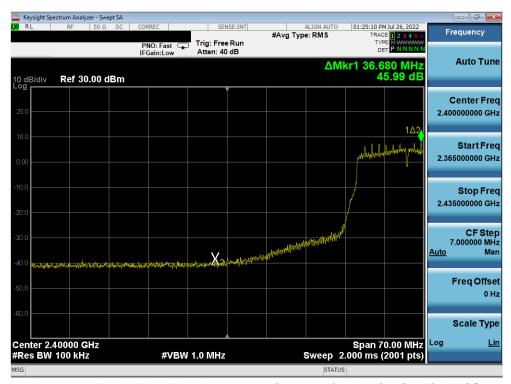
Plot 7-188. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 3) - MCS2

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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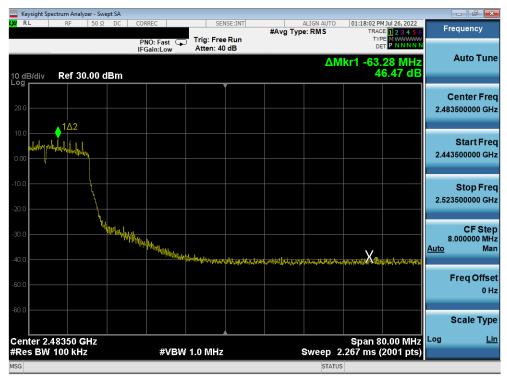
Plot 7-189. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 4) - MCS2



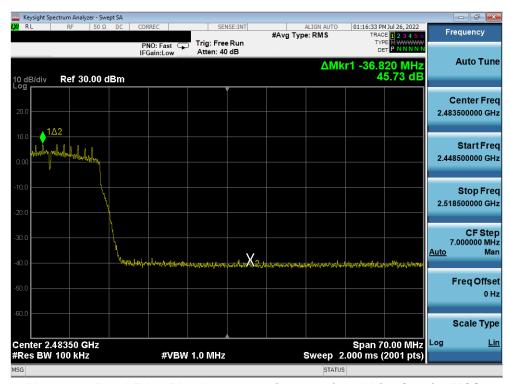
Plot 7-190. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 5) - MCS2

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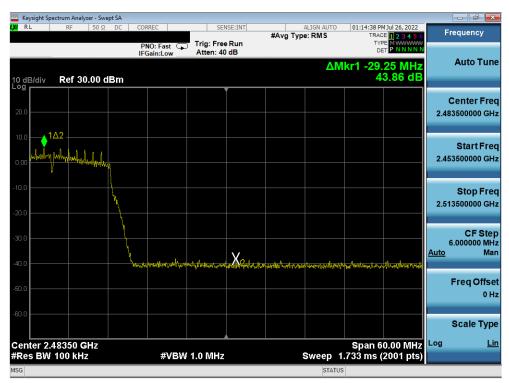
Plot 7-191. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 8) - MCS2



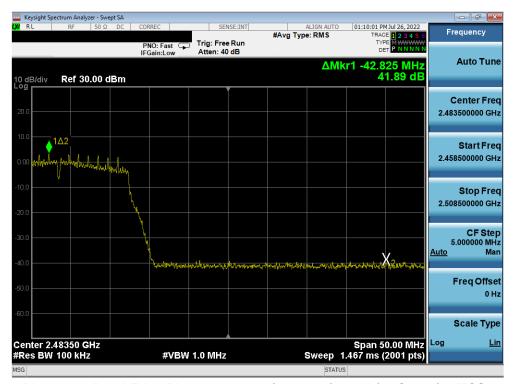
Plot 7-192. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 9) - MCS2

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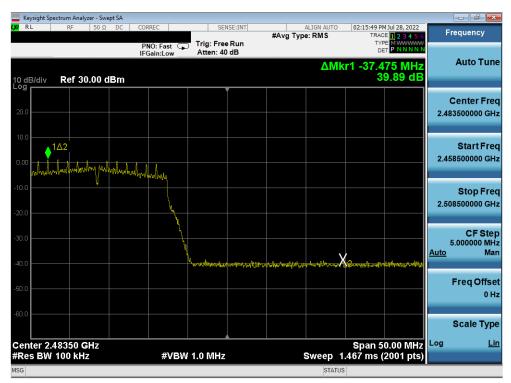
Plot 7-193. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 10) - MCS2



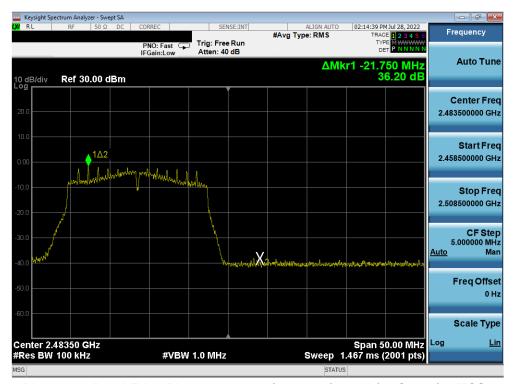
Plot 7-194. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 11) - MCS2

FCC ID: BCG2764 IC: 579C-A2764	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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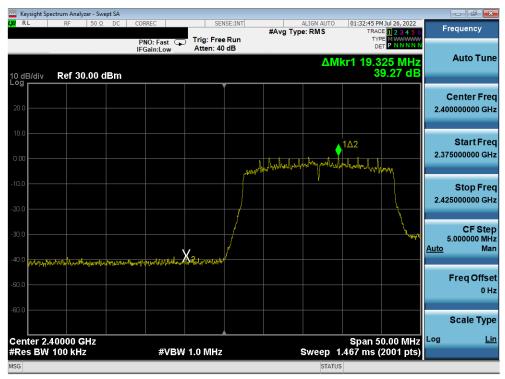
Plot 7-195. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 12) - MCS2



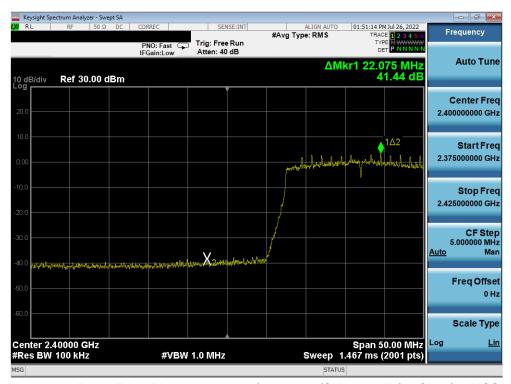
Plot 7-196. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 13) - MCS2

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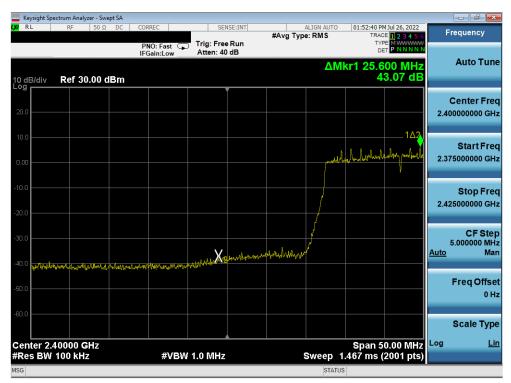
Plot 7-197. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS2



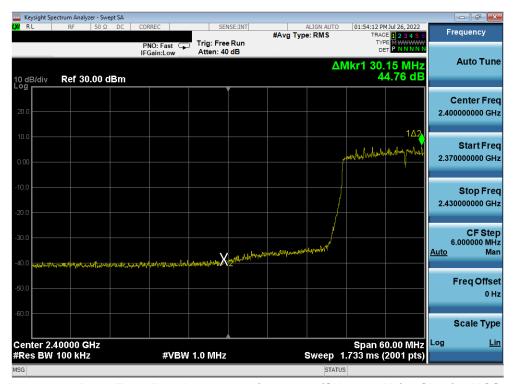
Plot 7-198. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 2) - MCS2

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Plot 7-199. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) - Ch. 3) - MCS2



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

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