APPENDIX B

WIR110053

FCC247 Data

Title 47 of the CFR, Part 15 §15.203 Antenna Requirement

*No appendix data,

Title 47 of the CFR, Part 15 §15.207(a) Conducted Emission Limits

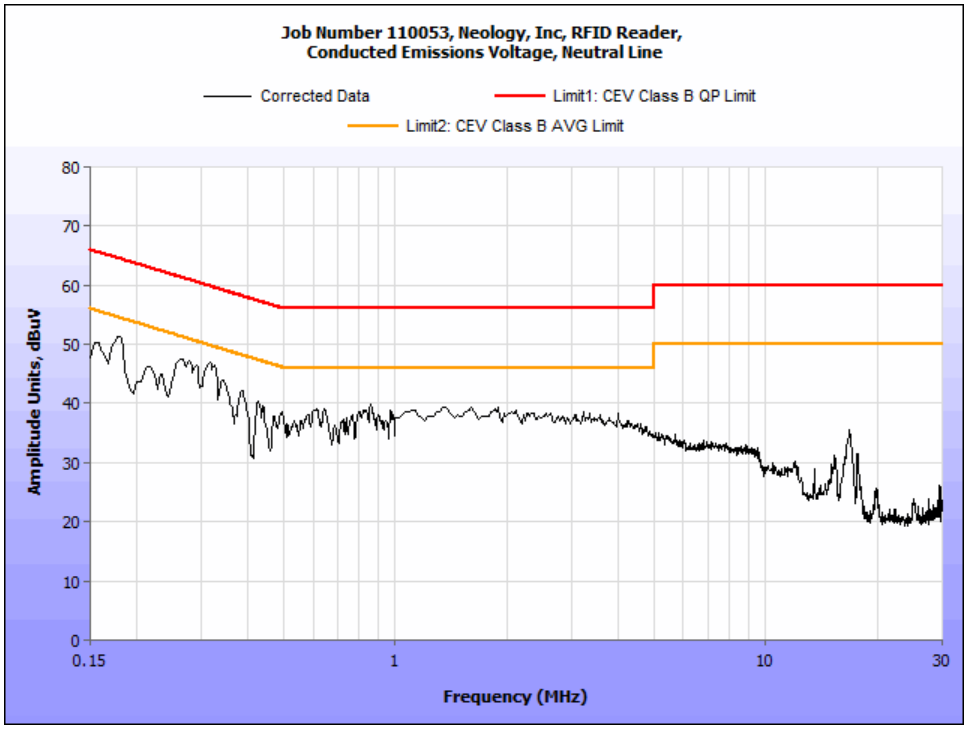

Figure 1. 15.207 CEV_neutral prescan

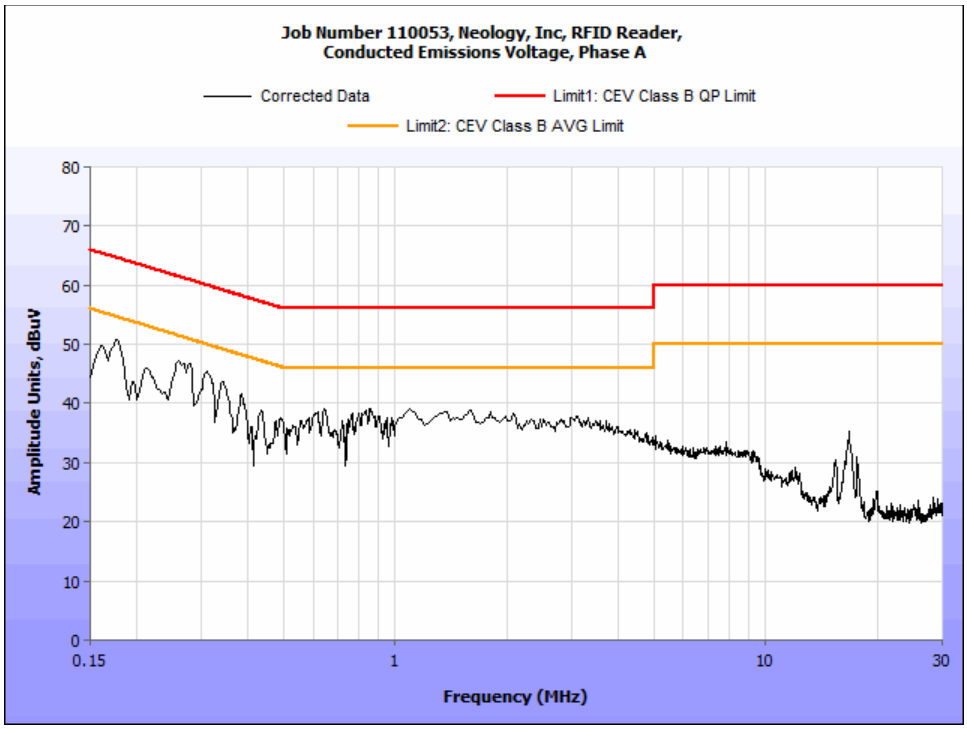

Figure 2. 15.207 CEV_phase prescan

Figure 3. CEV Test Setup

Title 47 of the CFR, Part 15 §15.247(a)(1) 20 dB Occupied Bandwidth

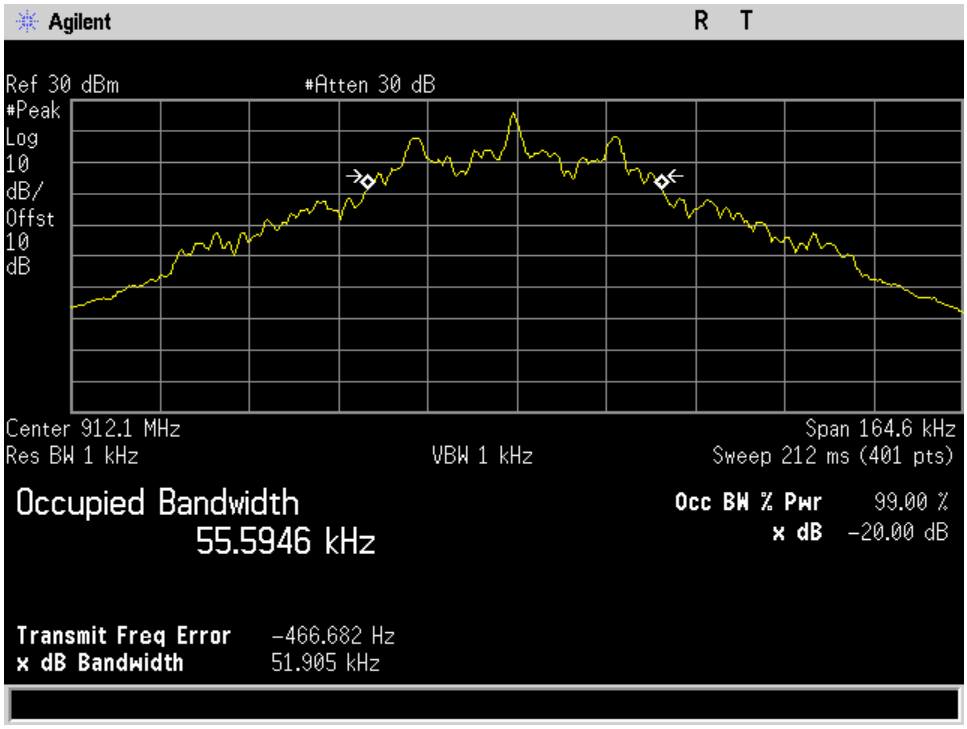

Figure 4. FCC_A_High Ch_912.1MHz_200KHz_Occupied Bandwidth_99 Percent_Port 2

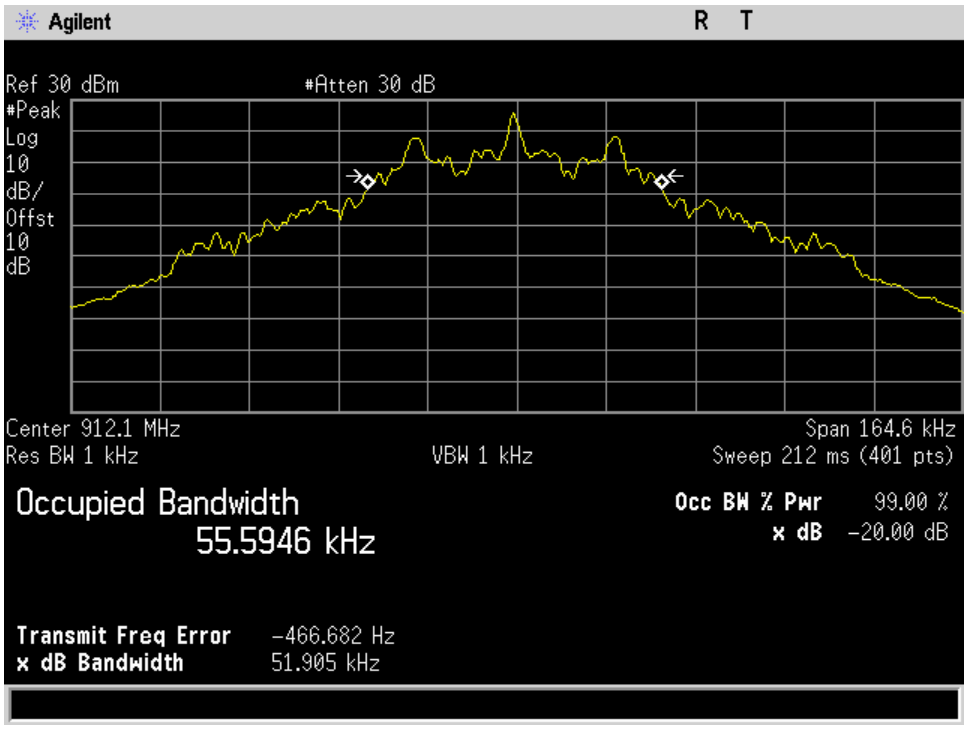

Figure 5. FCC_A_Low Ch_902.3MHz_200KHz_Occupied Bandwidth_99 Percent_Port 2

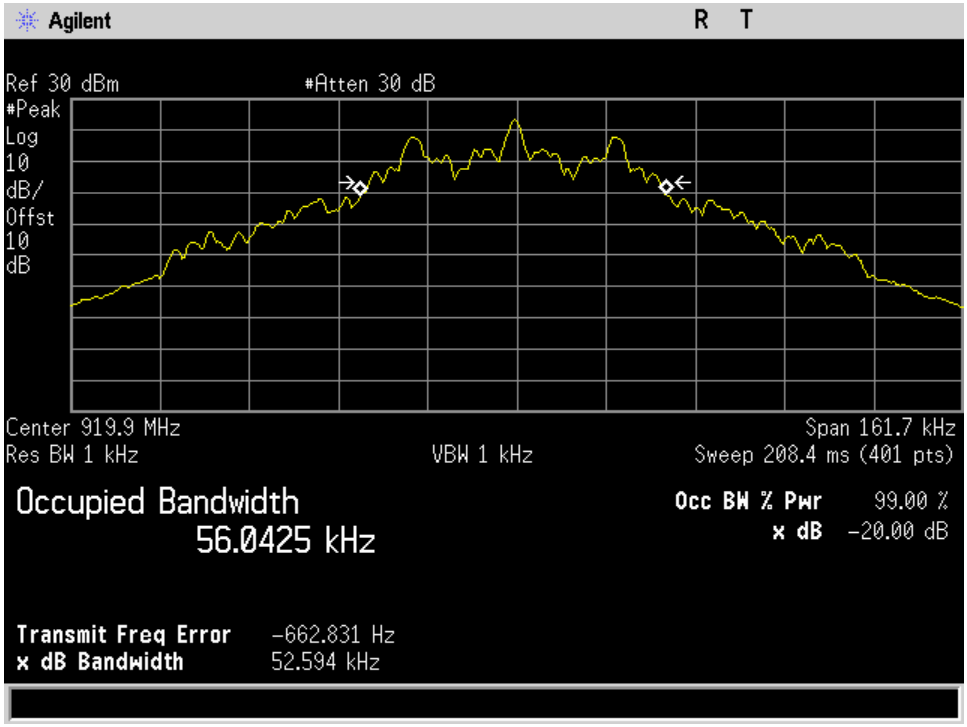

Figure 6. FCC_B_High Ch_919.9MHz_200KHz_Occupied Bandwidth_99 Percent_Port 2

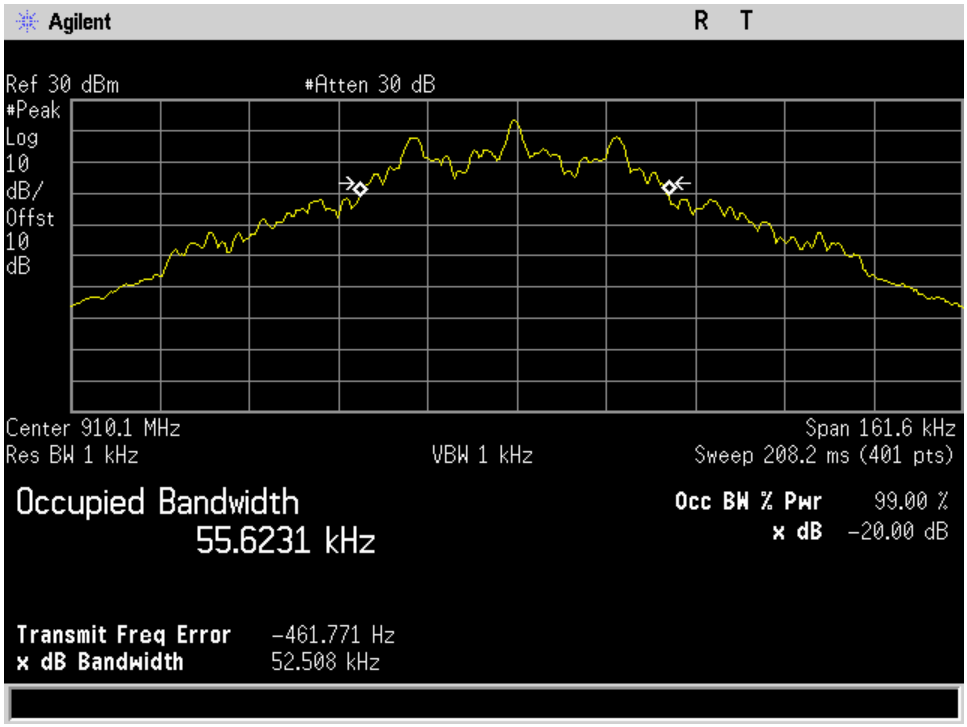

Figure 7. FCC_B_Low Ch_910.1MHz_200KHz_Occupied Bandwidth_99 Percent_Port 2

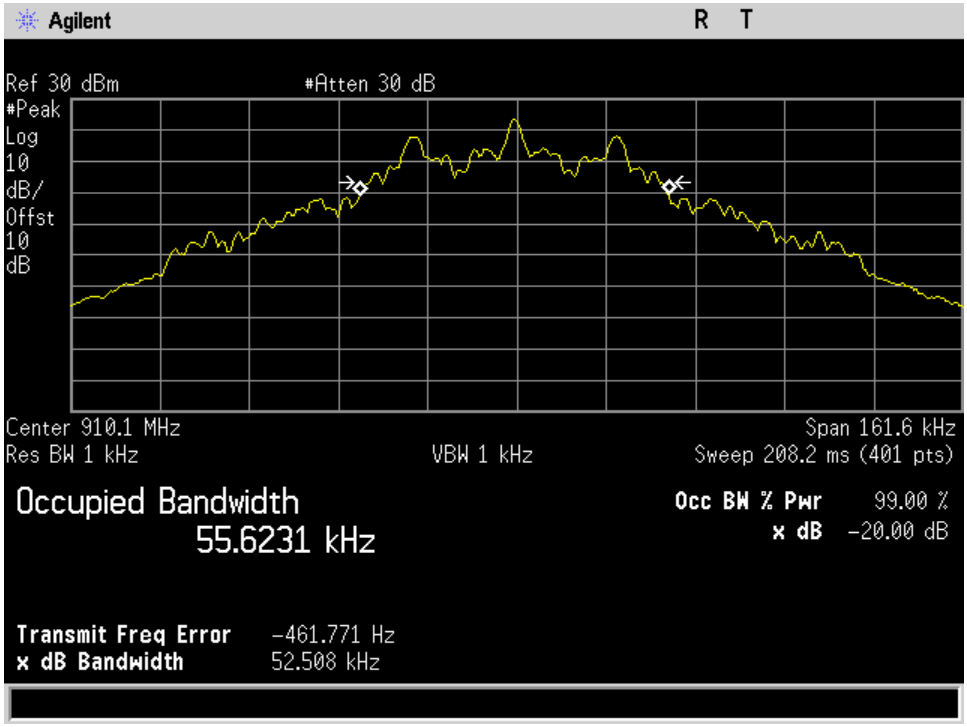

Figure 8. FCC_C_High Ch_927.7MHz_200KHz_Occupied Bandwidth_99 Percent_Port 2

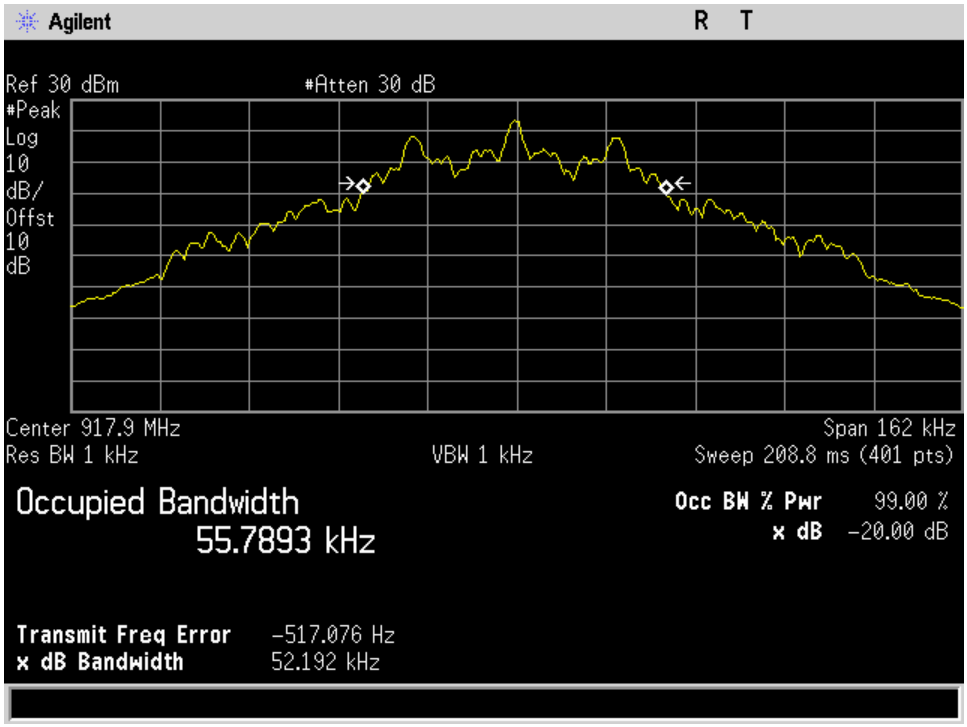

Figure 9. FCC_C_Low Ch_917.9MHz_200KHz_Occupied Bandwidth_99 Percent_Port 2

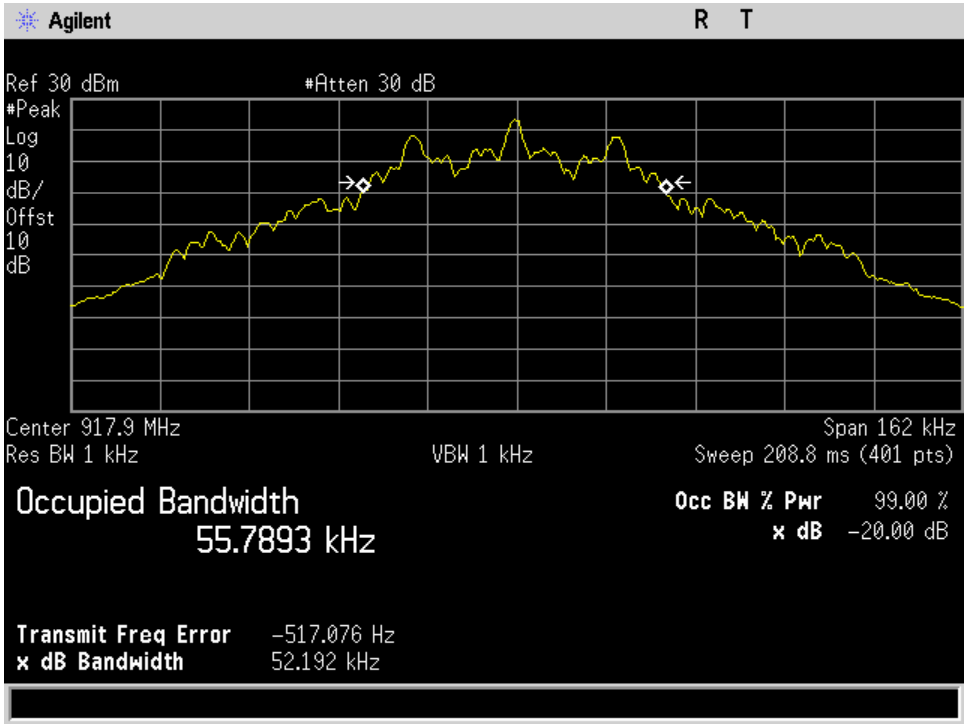

Figure 10. FCC_Dense_High Ch_927.25MHz_500KHz_Occupied Bandwidth_99 Percent_Port 2

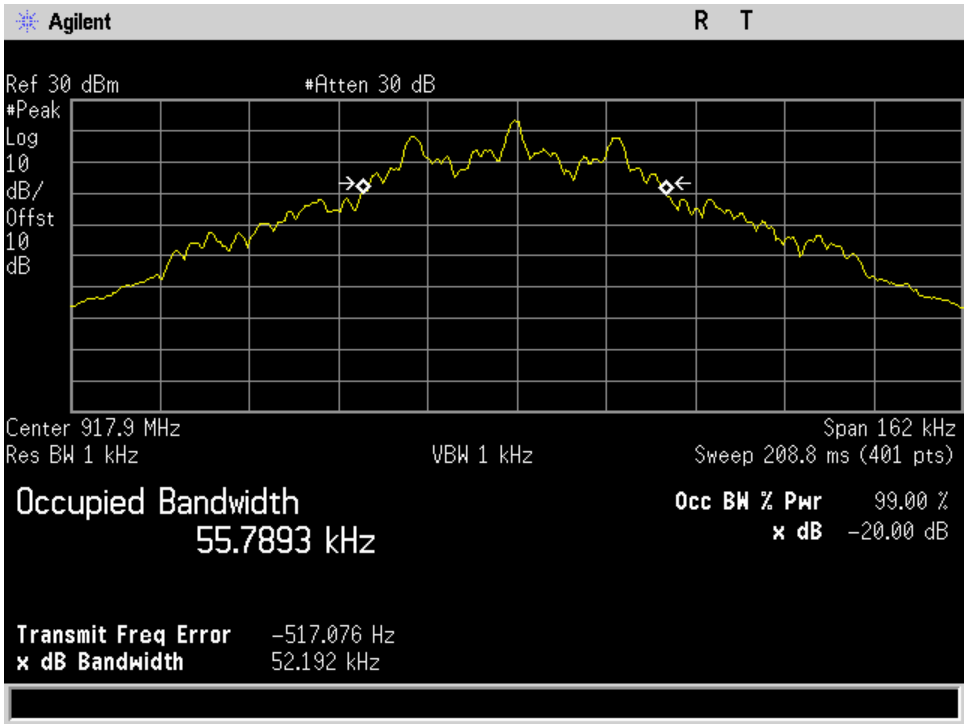

Figure 11. FCC_Dense_Low Ch_902.75MHz_500KHz_Occupied Bandwidth_99 Percent_Port 2

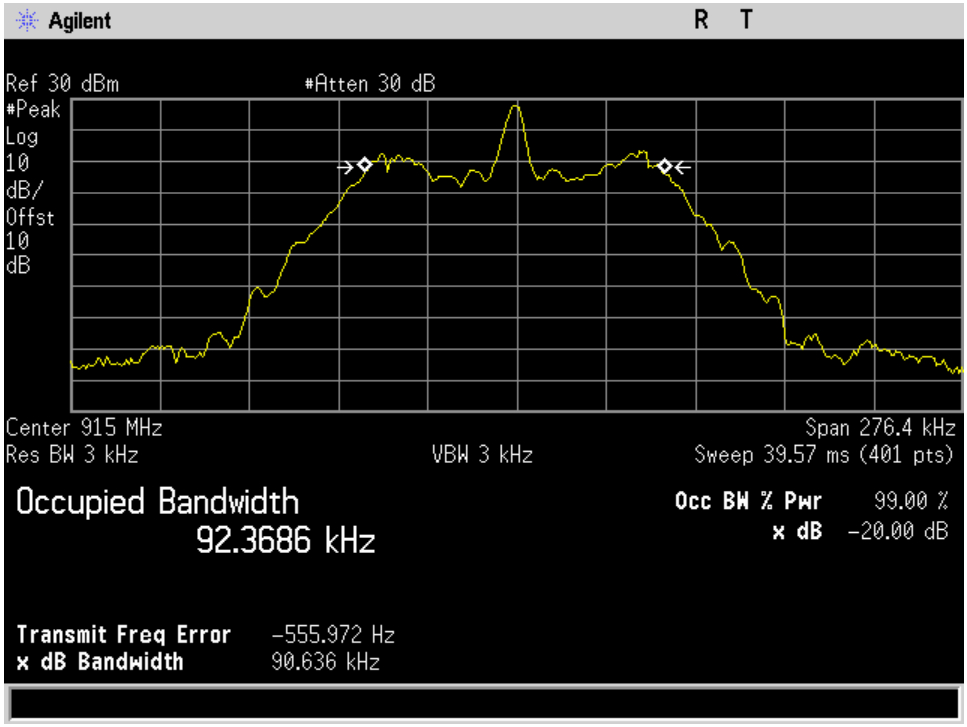

Figure 12. FCC_Dense_Mid Ch_915.0MHz_500KHz_Occupied Bandwidth_99 Percent_Port 2

Title 47 of the CFR, Part 15 §15.247(a)(1) Average Time of Occupancy (Dwell Time)

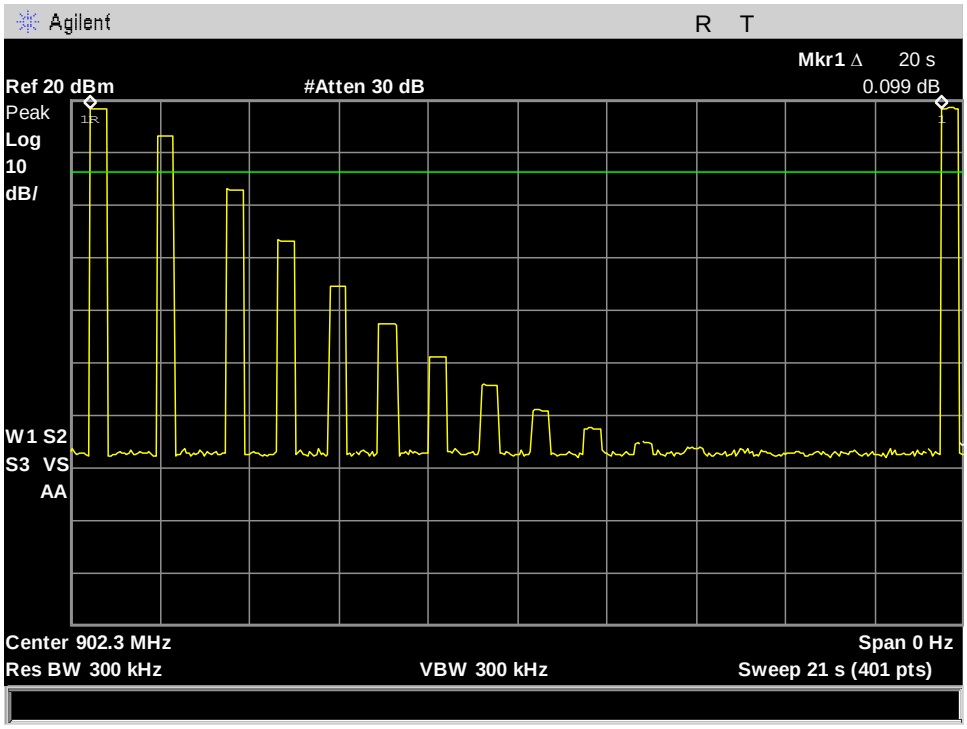

Figure 13. FCC_A period

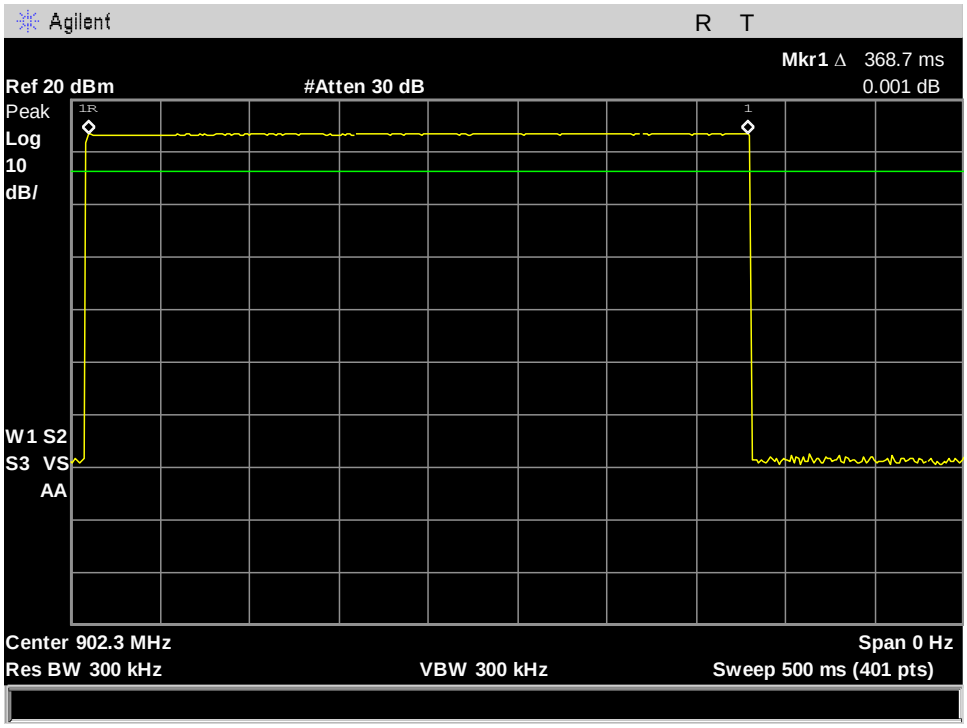

Figure 14. FCC_A pulse width

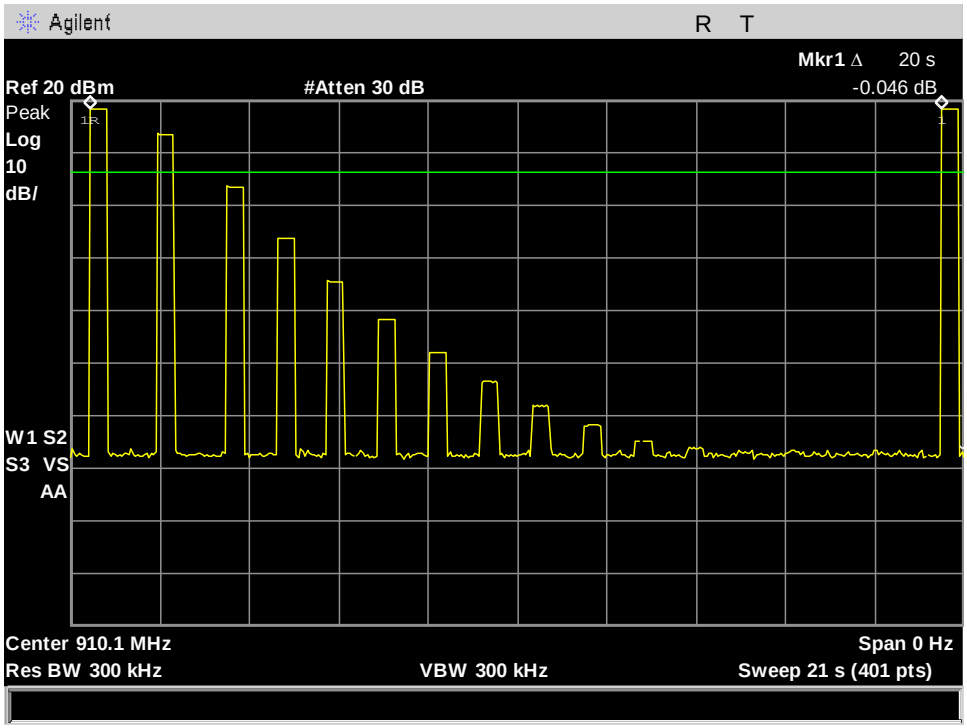

Figure 15. FCC_B period

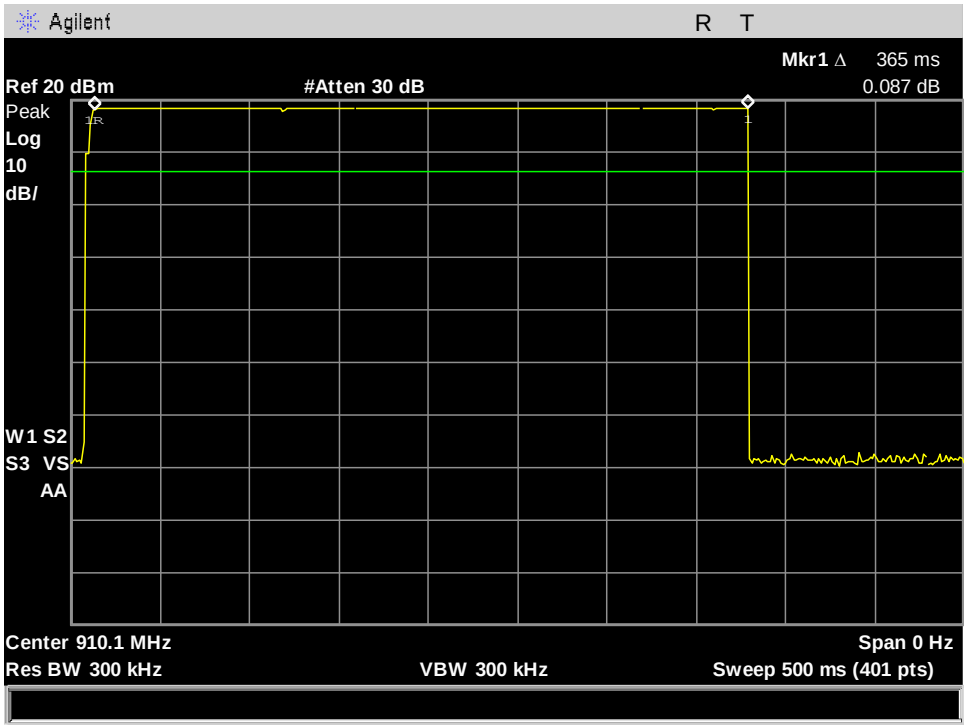

Figure 16. FCC_B pulse width

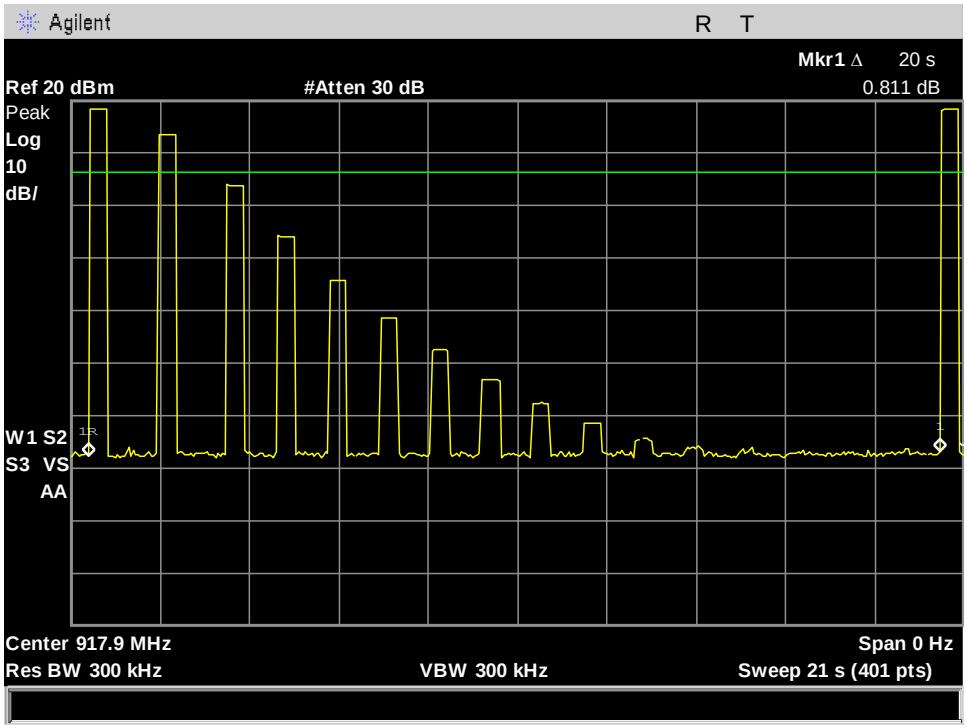

Figure 17. FCC_C period

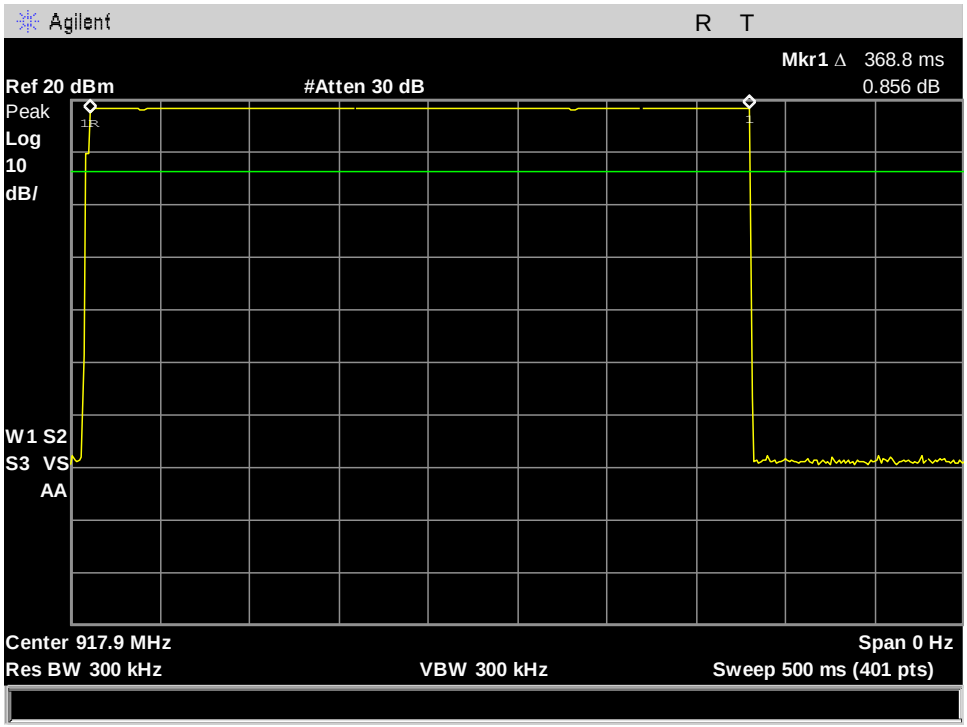

Figure 18. FCC_C pulse width

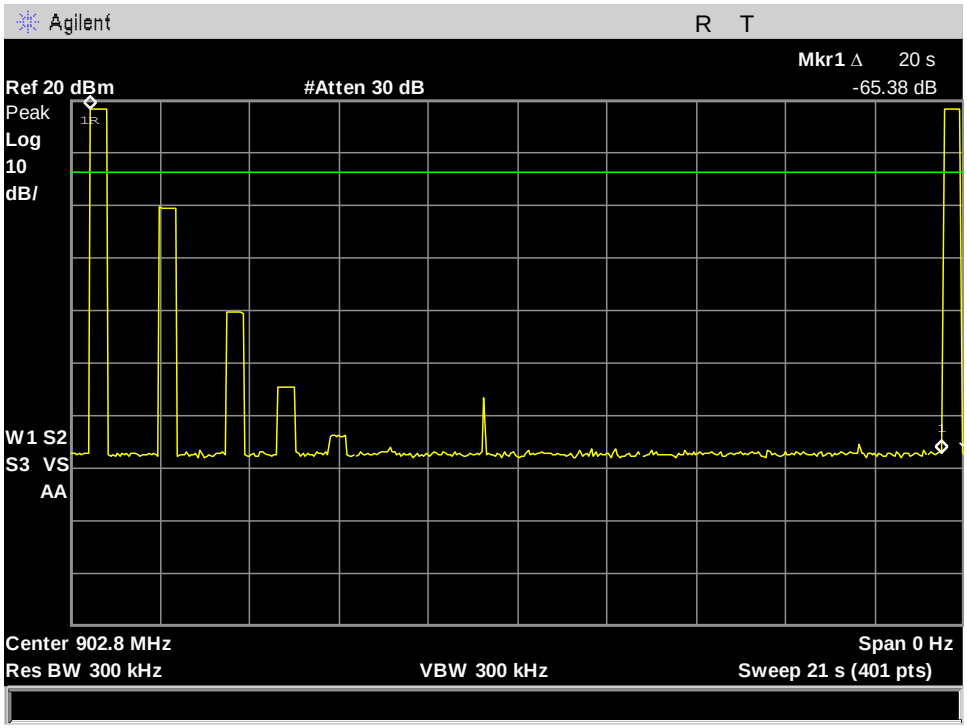

Figure 19. FCC_dense period

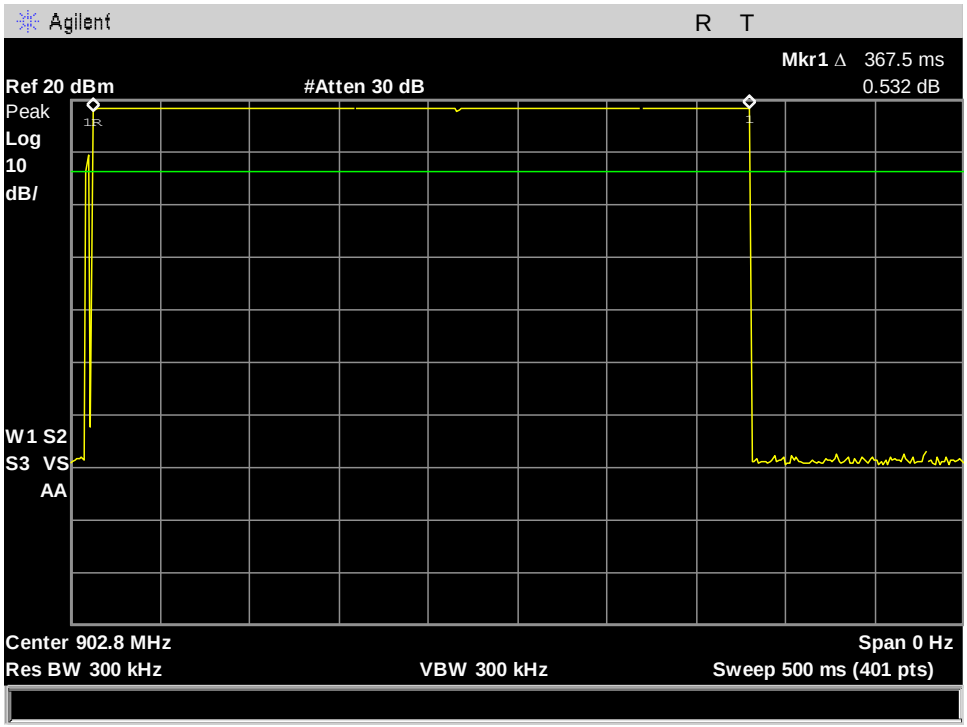

Figure 20. FCC_dense pulse width

Title 47 of the CFR, Part 15 §15.247(a)(1) Number of RF Channels

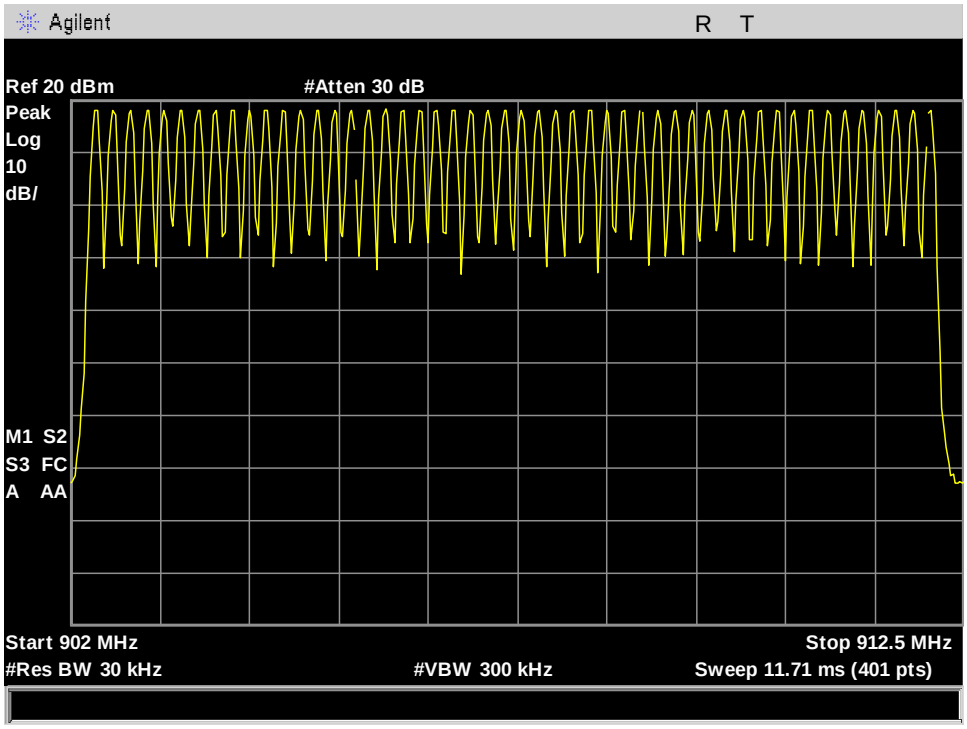

Figure 21. Fcc_a No of Channels

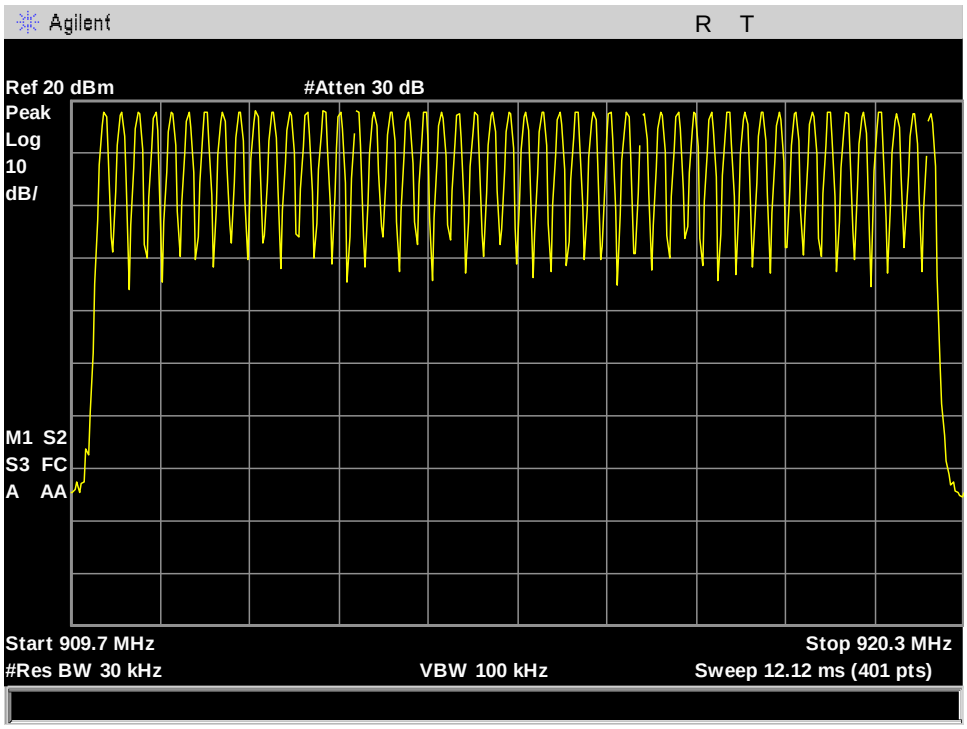

Figure 22. Fcc_b No of Channels

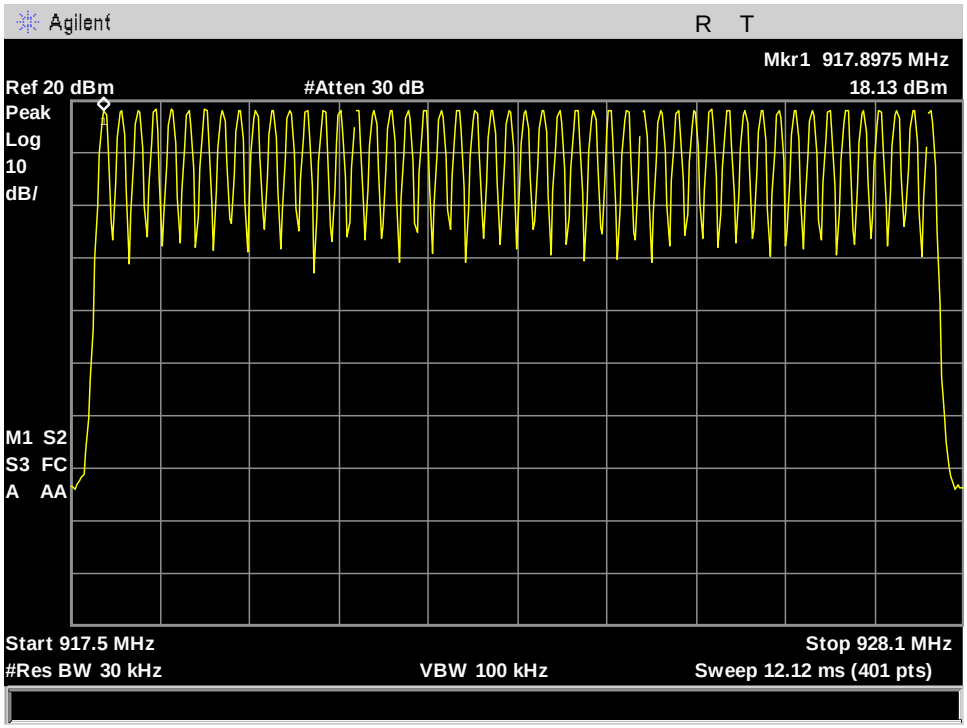

Figure 23. Fcc_c No of Channels

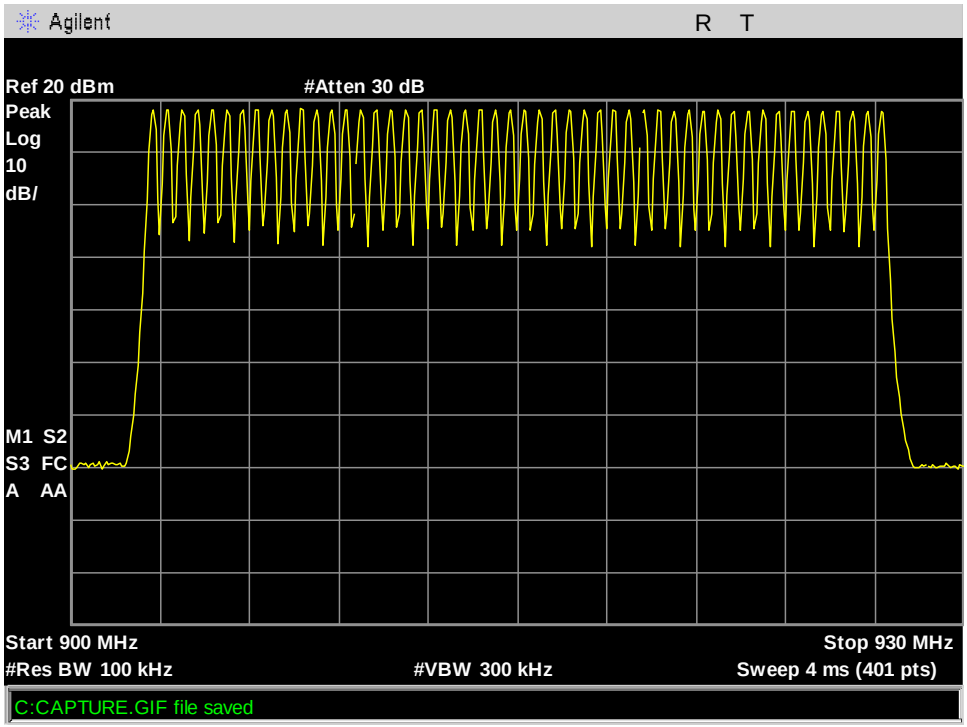

Figure 24. Fcc_dense No of Channels

Title 47 of the CFR, Part 15 §15.247(a)(1) RF Channel Separation

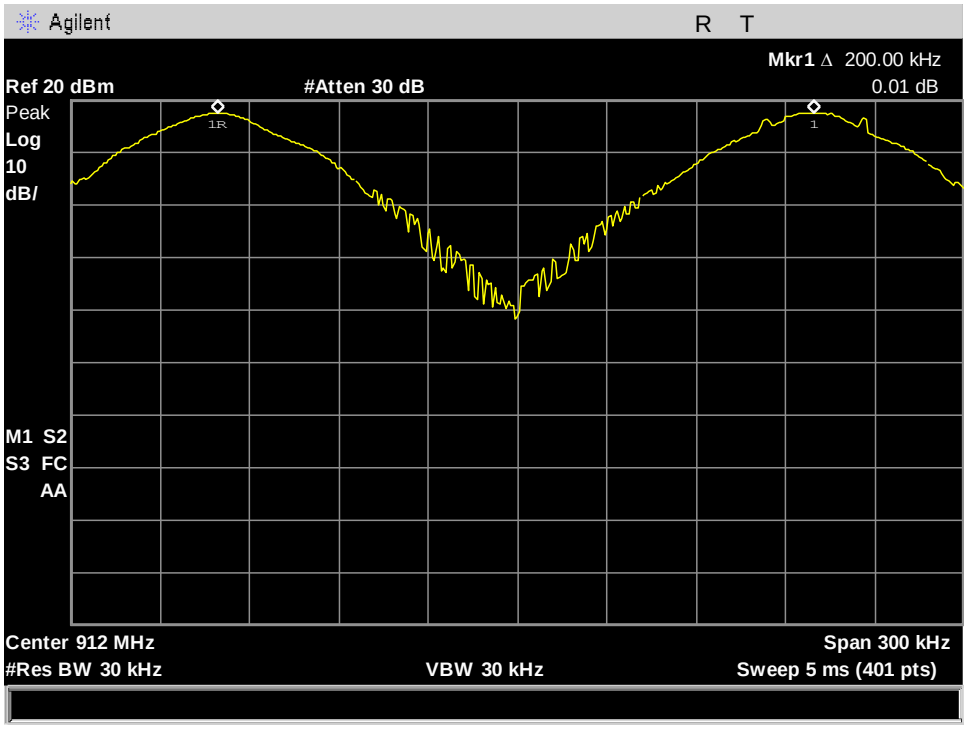

Figure 25. fcc_a Channel Separation high frequencies

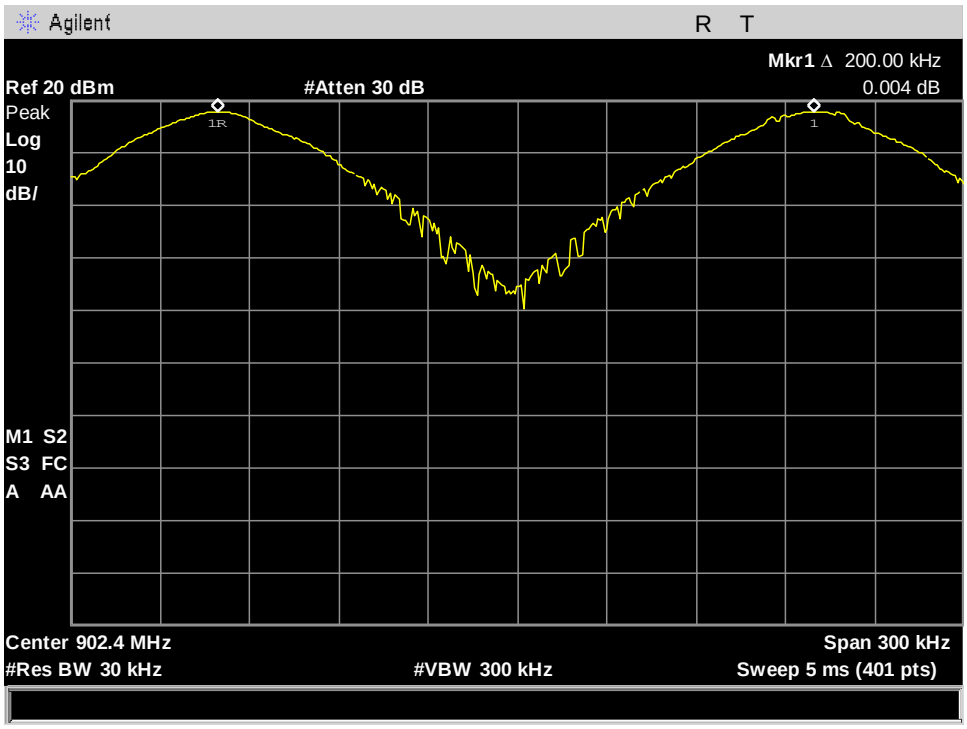

Figure 26. fcc_a Channel Separation low frequencies

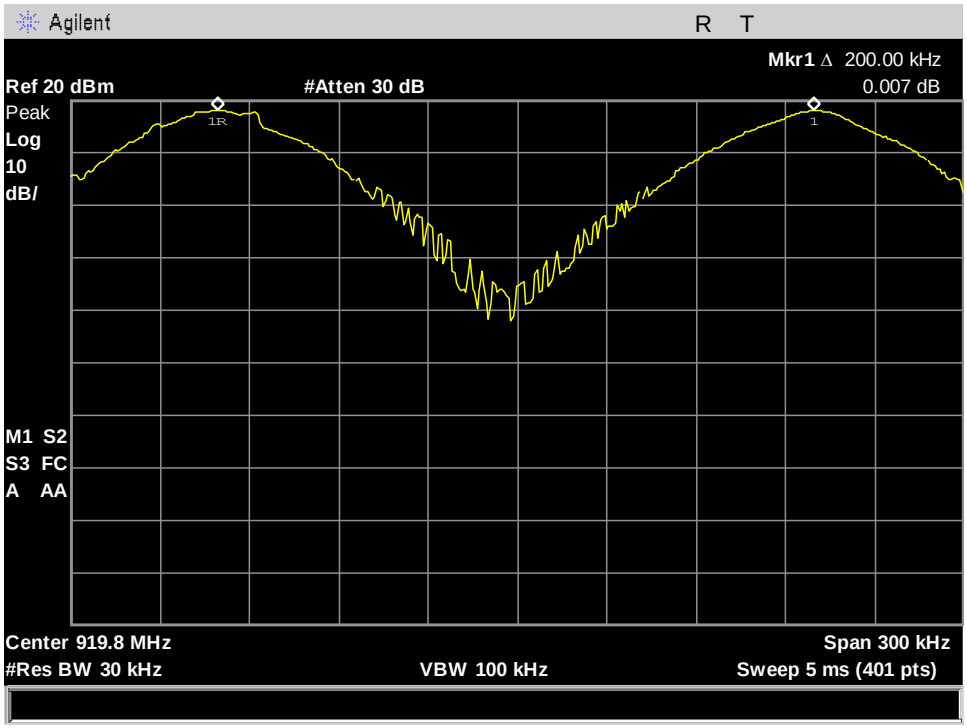

Figure 27. fcc_b Channel Separation high frequencies

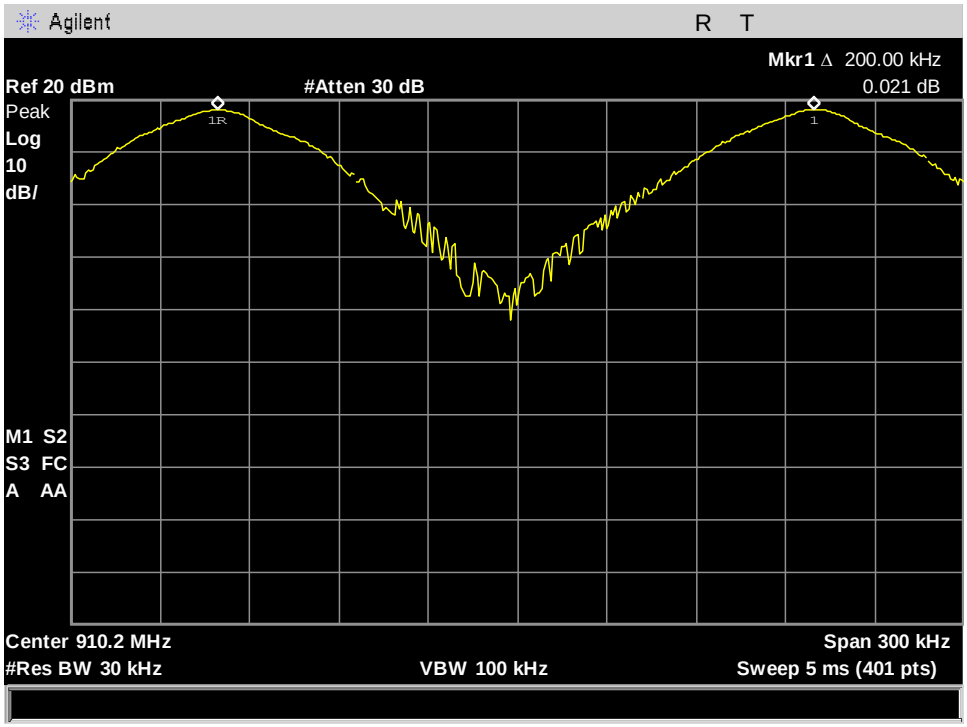

Figure 28. fcc_b Channel Separation low frequencies

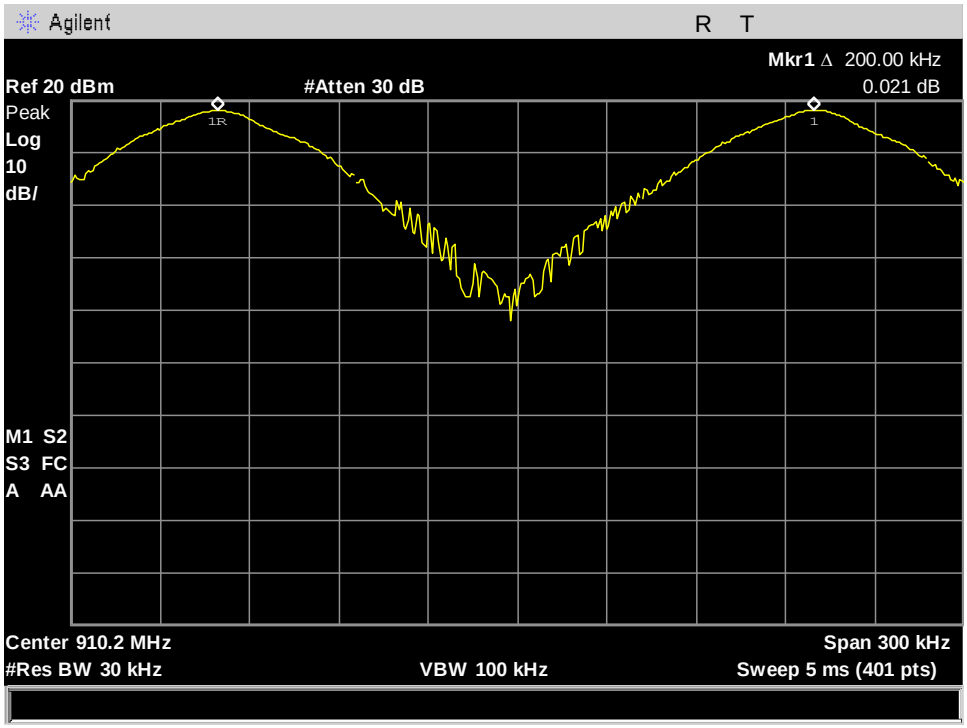

Figure 29. fcc_c Channel Separation high frequencies

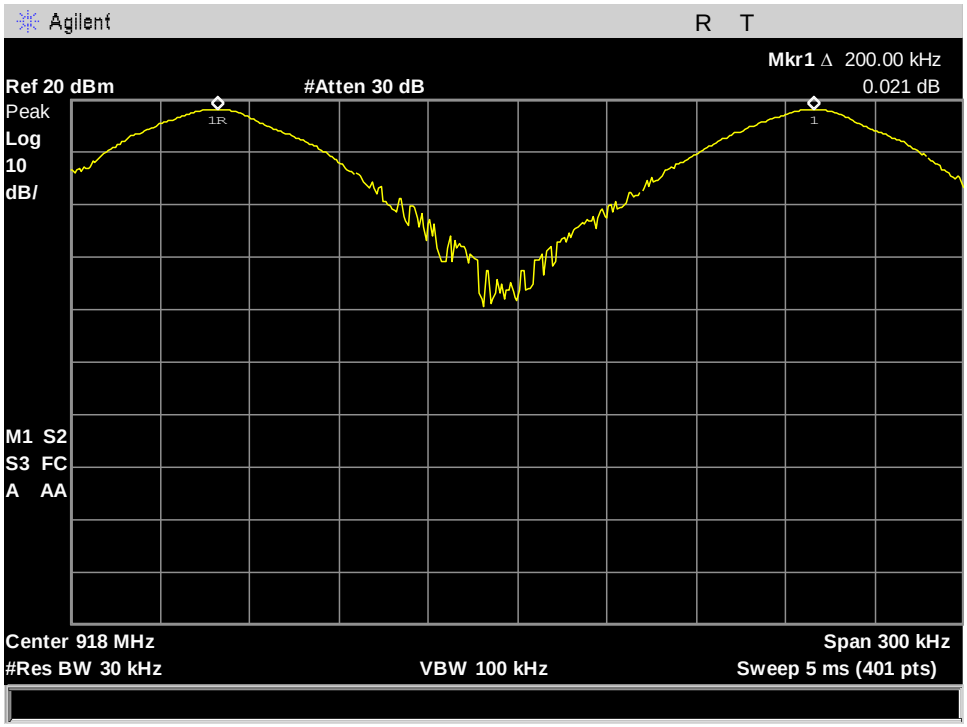

Figure 30. fcc_c Channel Separation low frequencies

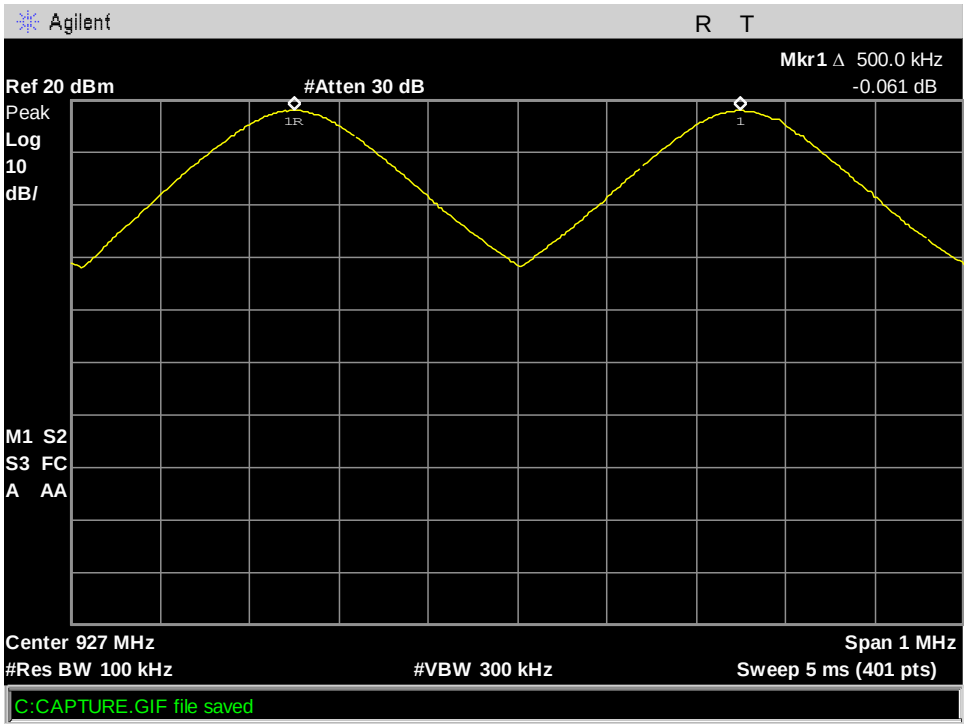

Figure 31. fcc_dense Channel Separation high frequencies

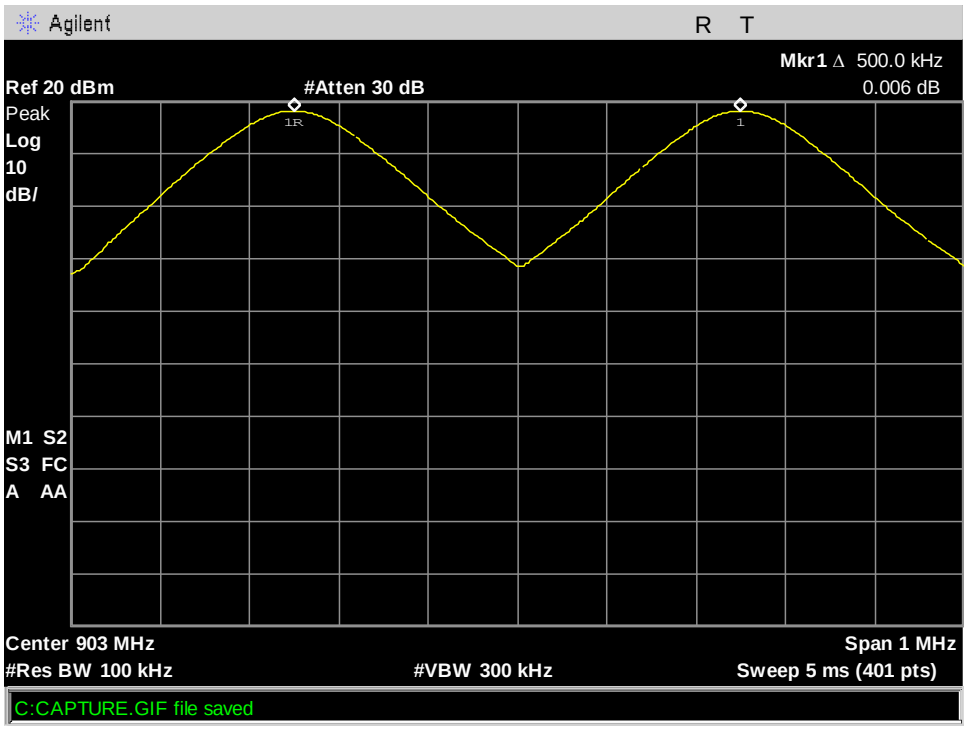

Figure 32. fcc_dense Channel Separation low frequencies

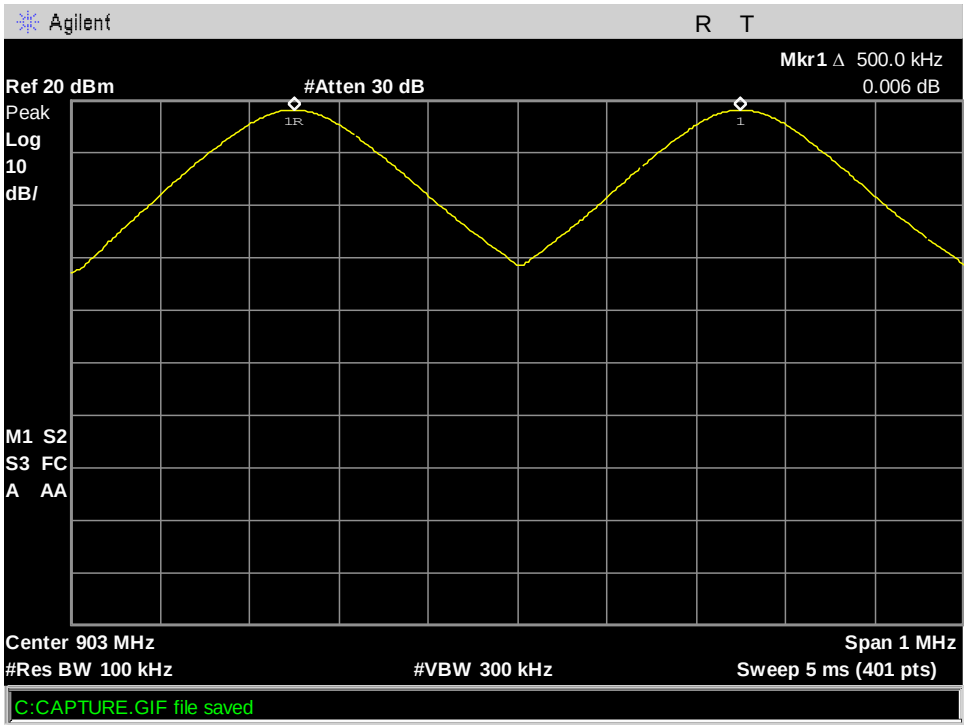

Figure 33. fcc_dense Channel Separation mid frequencies

Title 47 of the CFR, Part 15 §15.247(b) Peak Power Output

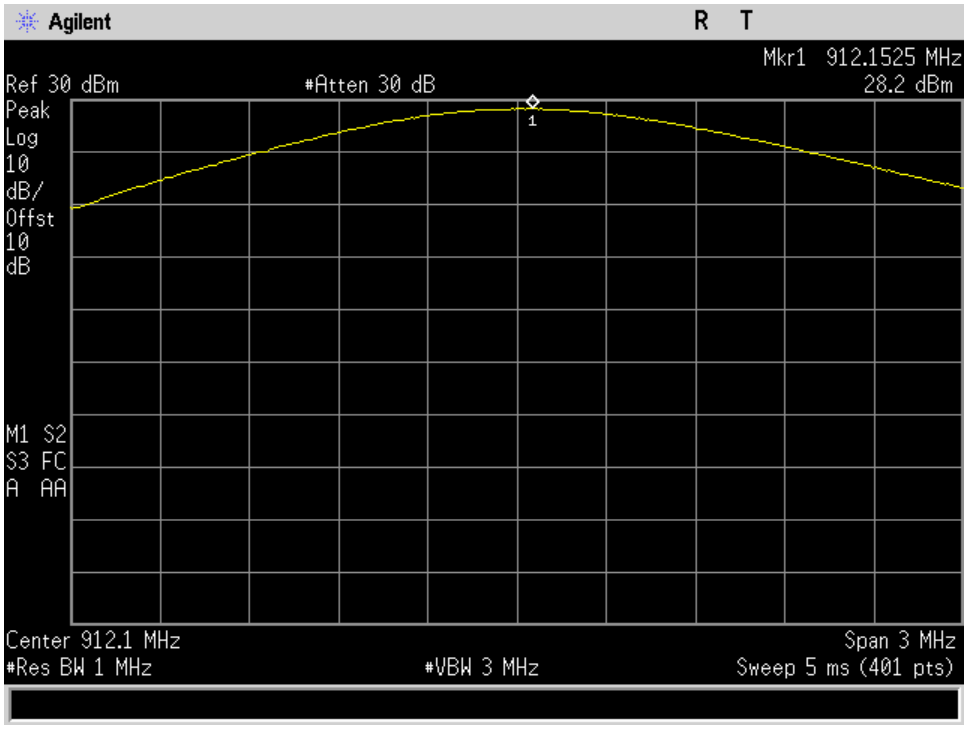

Figure 34. FCC_A_High Ch_912.1MHz_200KHz_Output Power_Port 2_9.5dBi

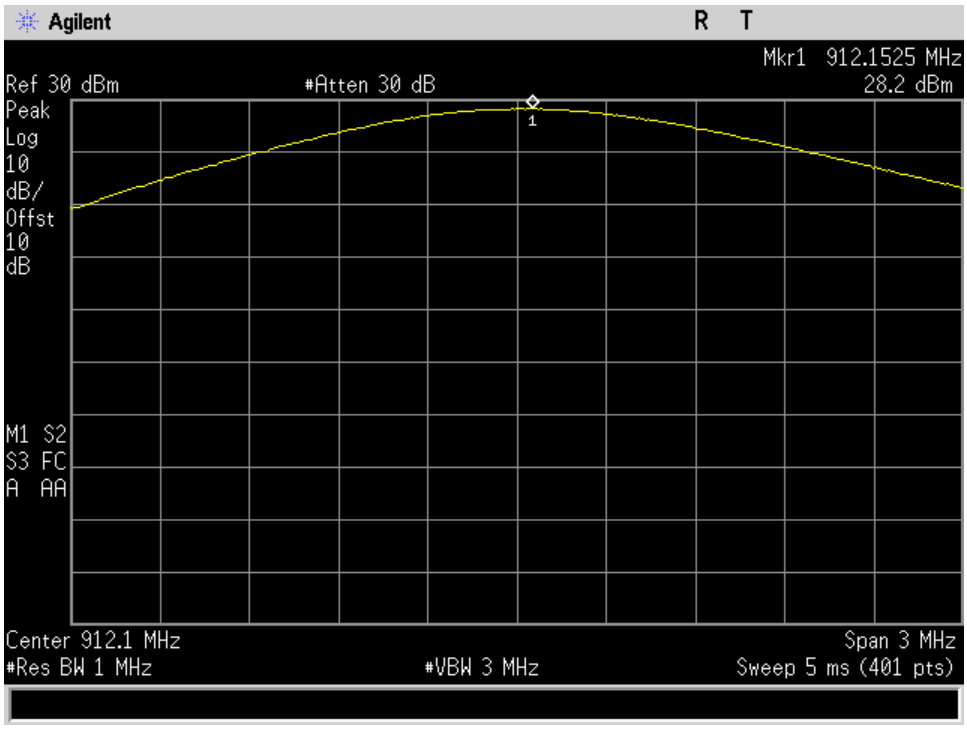

Figure 35. FCC_A_High Ch_912.1MHz_500KHz_Output Power_Port 2_13dBi

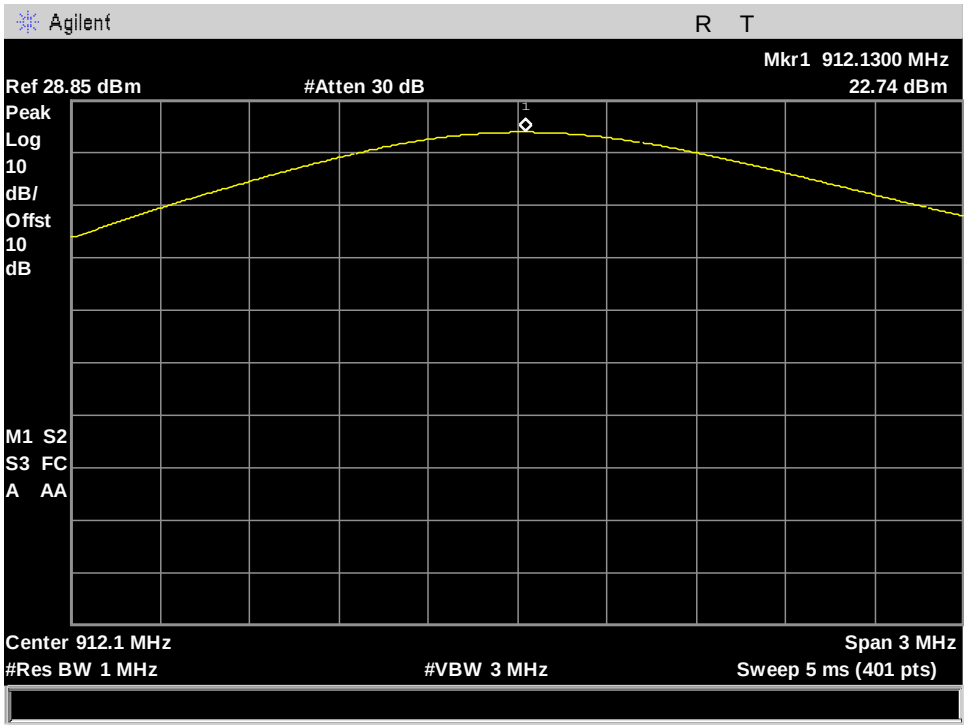

Figure 36. FCC_A_High Ch_912.1MHz_500KHz_Output Power_Port 2_15dBi

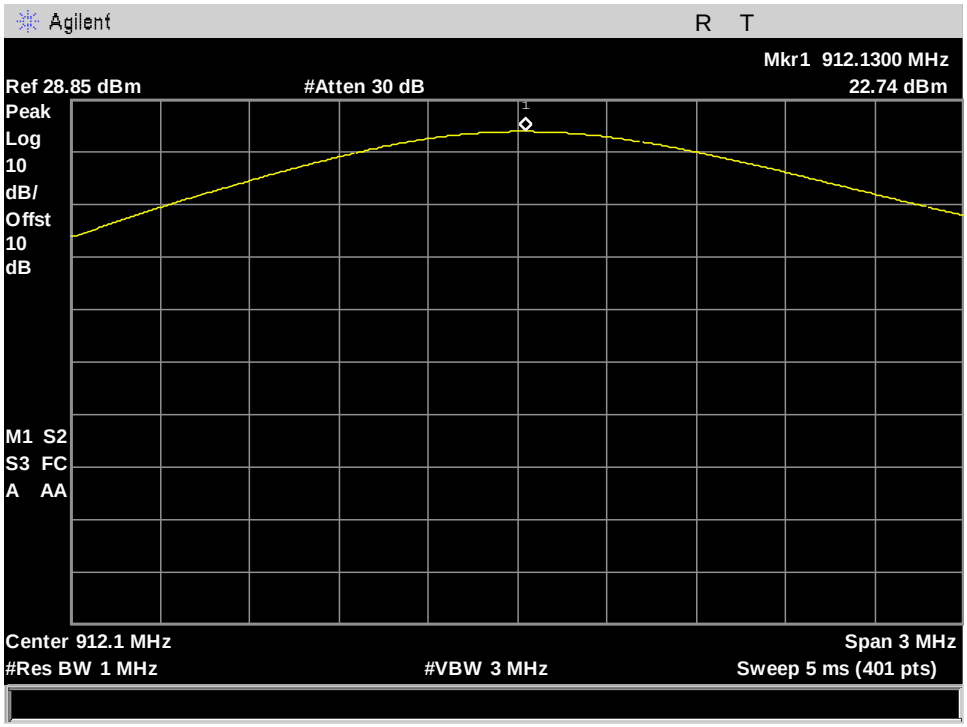

Figure 37. FCC_A_Low Ch_902.3MHz_200KHz_Output Power_Port 2_9.5dBi

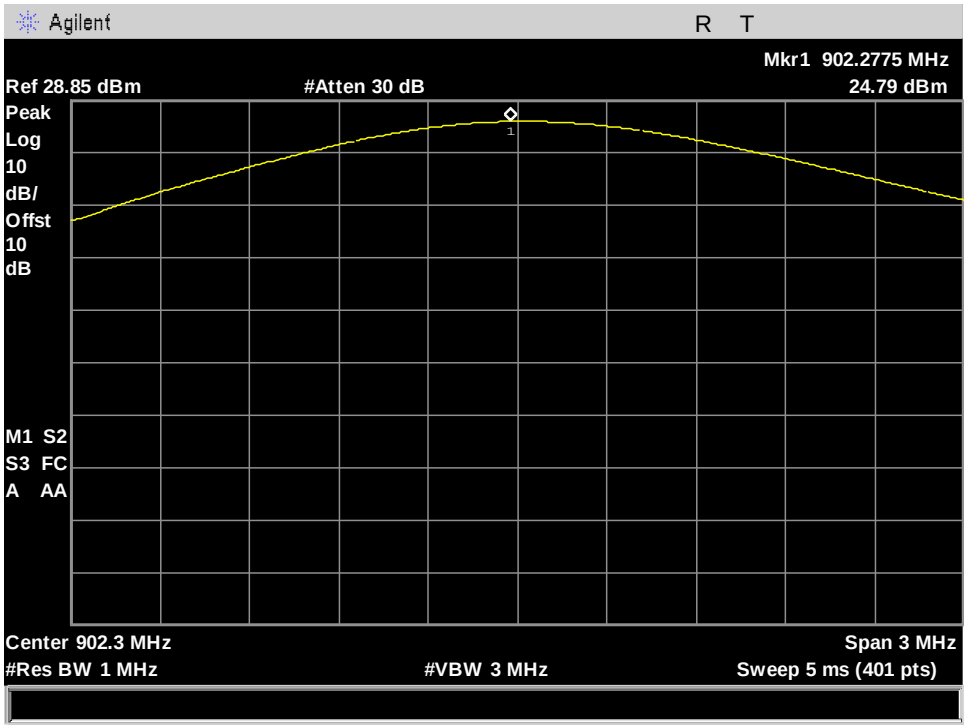

Figure 38. FCC_A_Low Ch_902.3MHz_500KHz_Output Power_Port 2_13dBi

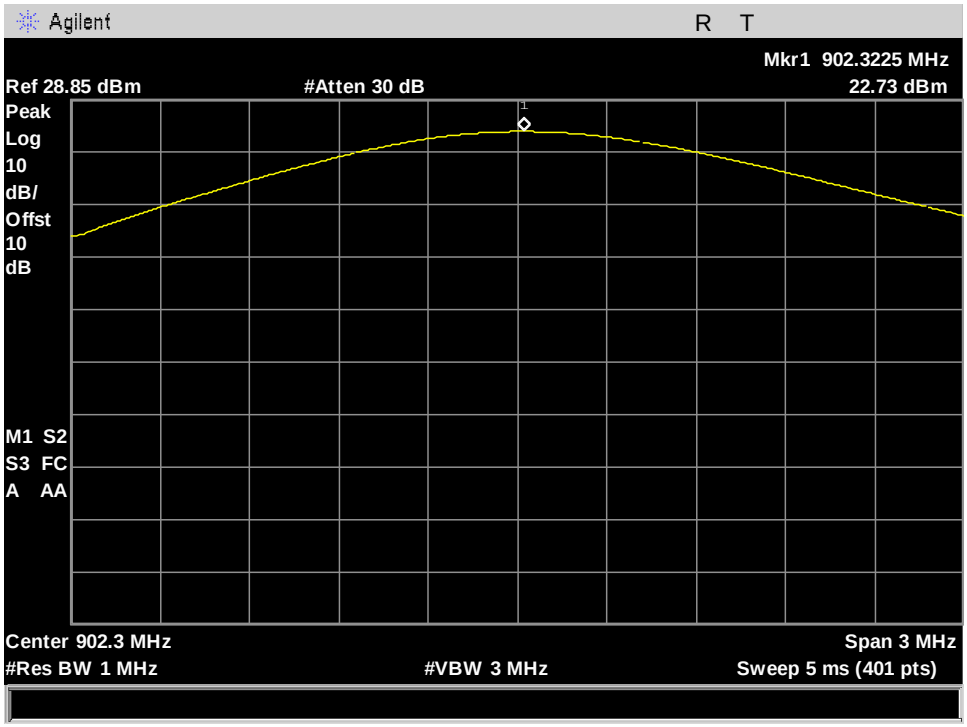

Figure 39. FCC_A_Low Ch_902.3MHz_500KHz_Output Power_Port 2_15dBi

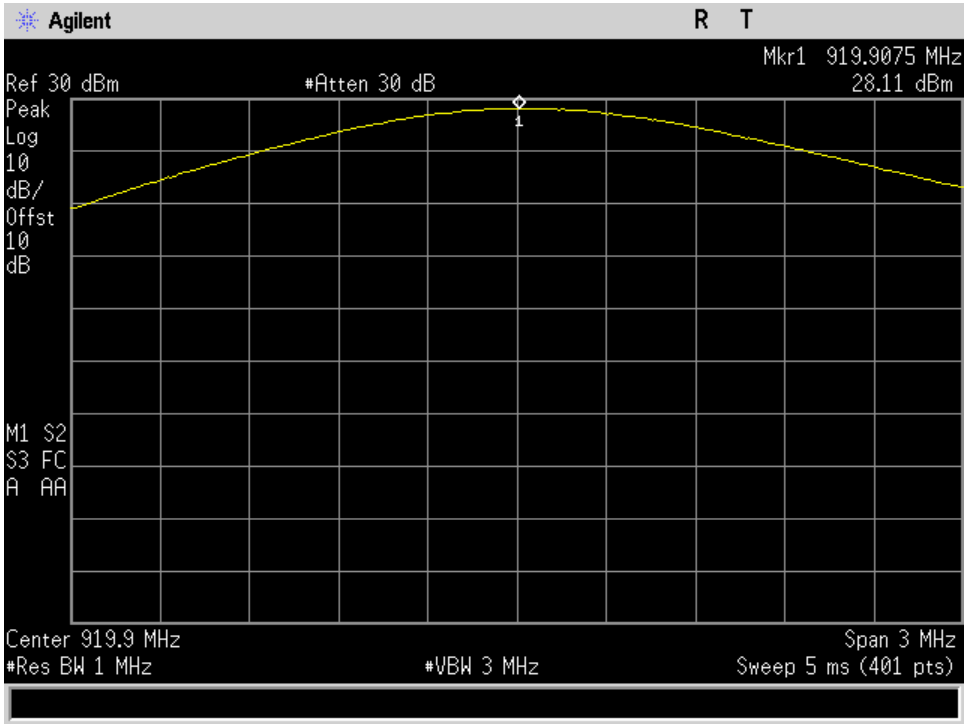

Figure 40. FCC_B_High Ch_919.9MHz_200KHz_Output Power_Port 2_9.5dBi

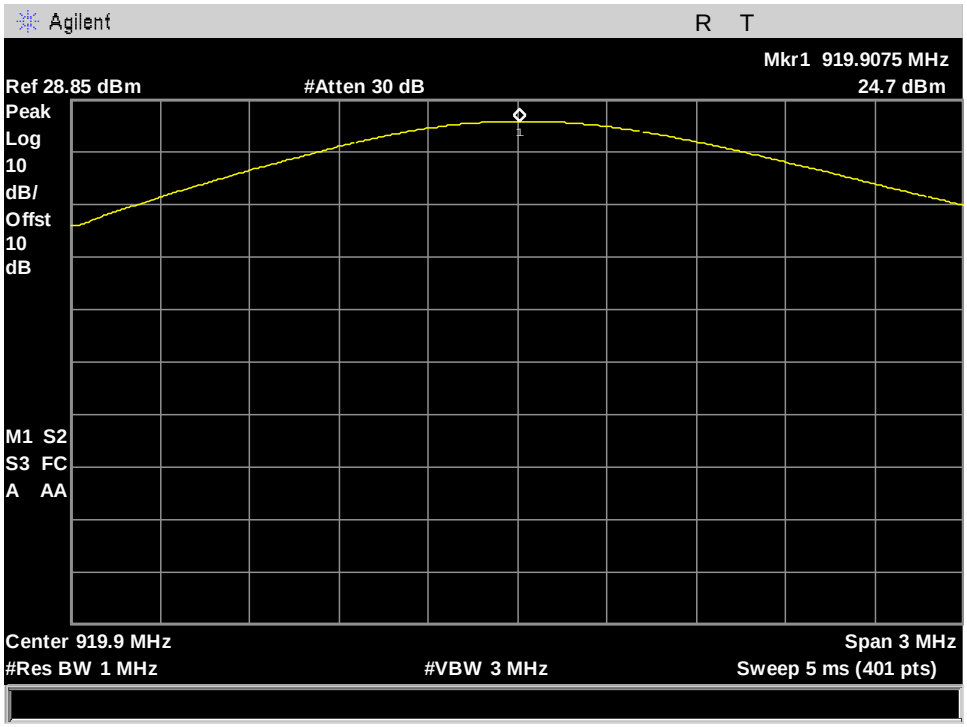

Figure 41. FCC_B_High Ch_919.9MHz_500KHz_Output Power_Port 2_13dBi

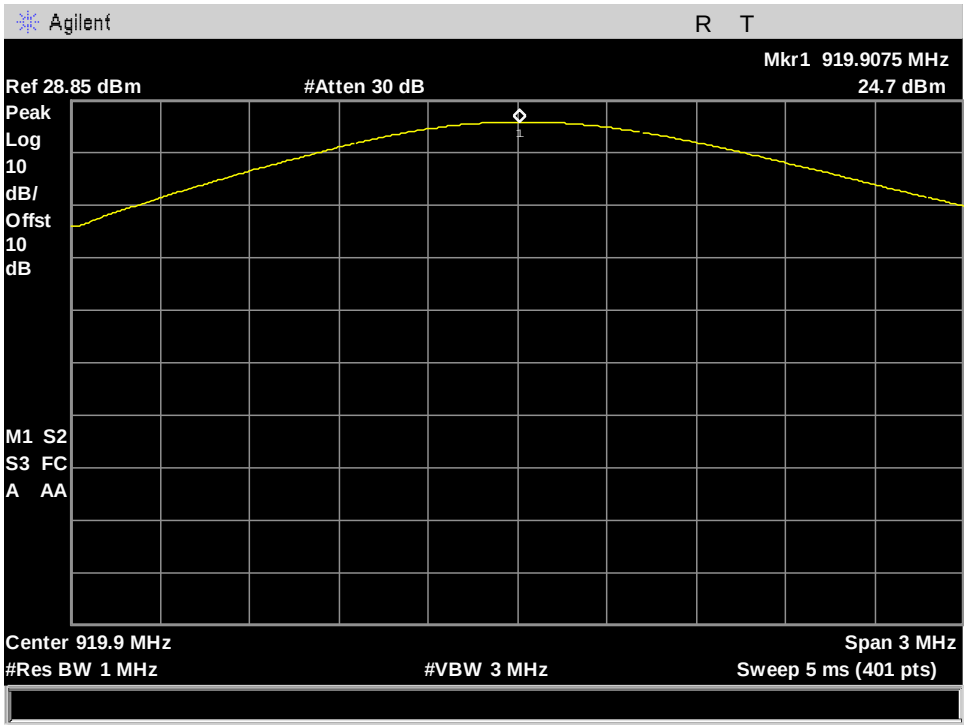

Figure 42. FCC_B_High Ch_919.9MHz_500KHz_Output Power_Port 2_15dBi

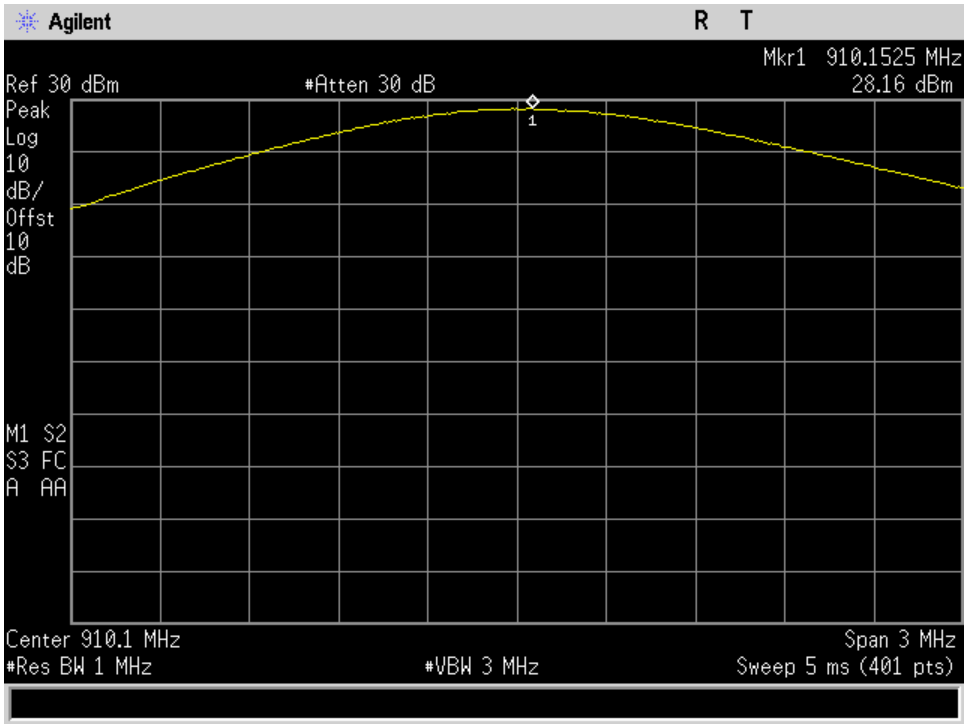

Figure 43. FCC_B_Low Ch_910.1MHz_200KHz_Output Power_Port 2_9.5dBi

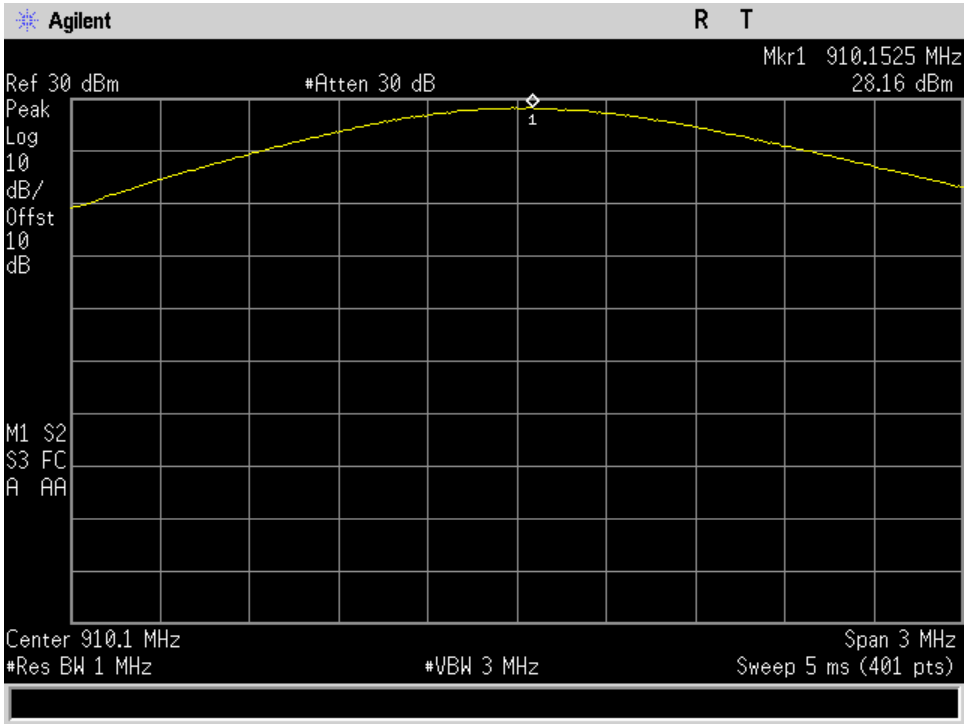

Figure 44. FCC_B_Low Ch_910.1MHz_500KHz_Output Power_Port 2_13dBi

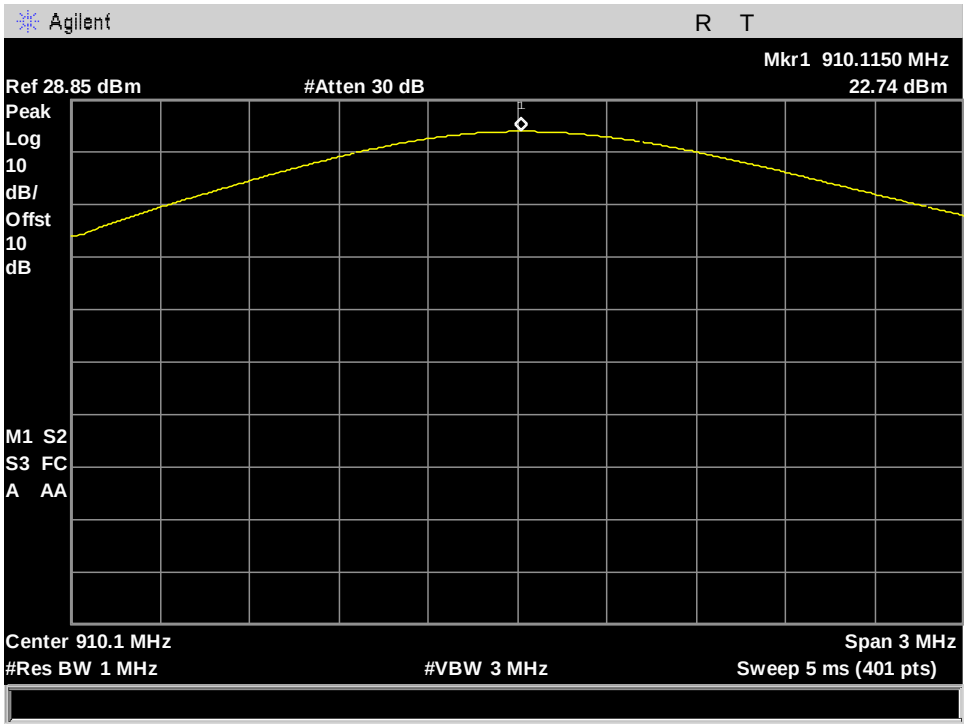

Figure 45. FCC_B_Low Ch_910.1MHz_500KHz_Output Power_Port 2_15dBi

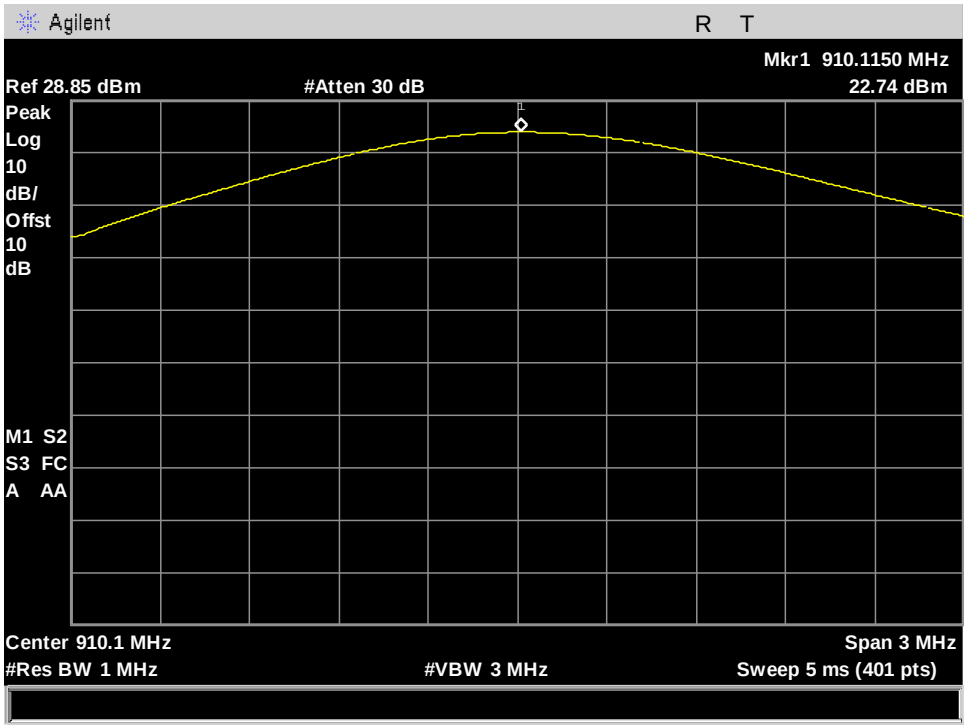

Figure 46. FCC_C_High Ch_927.7MHz_200KHz_Output Power_Port 2_9.5dBi

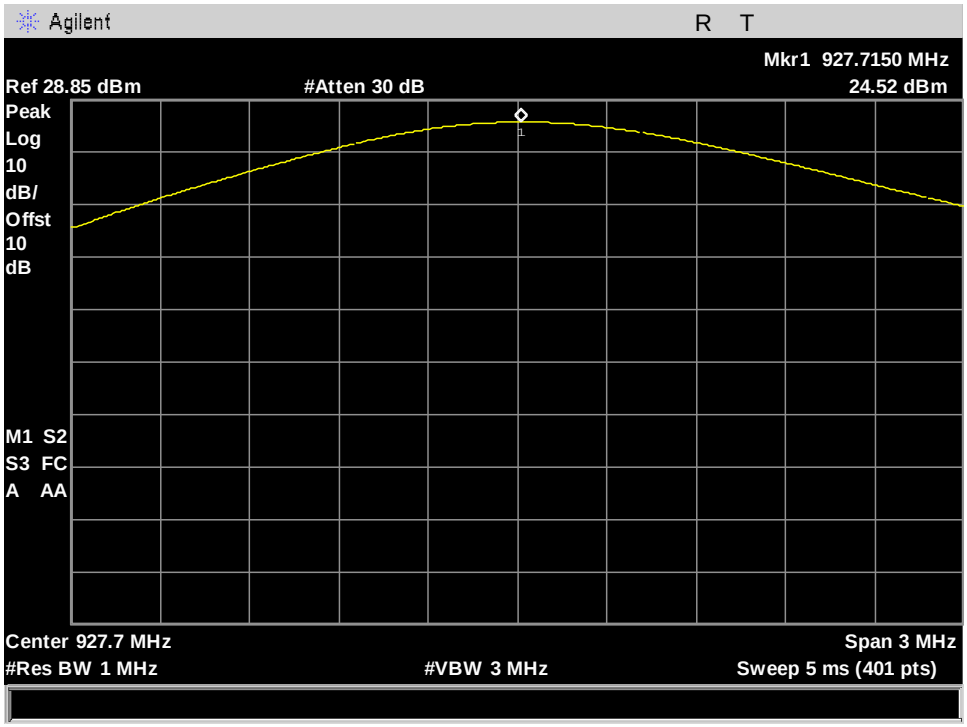

Figure 47. FCC_C_High Ch_927.7MHz_500KHz_Output Power_Port 2_13dBi

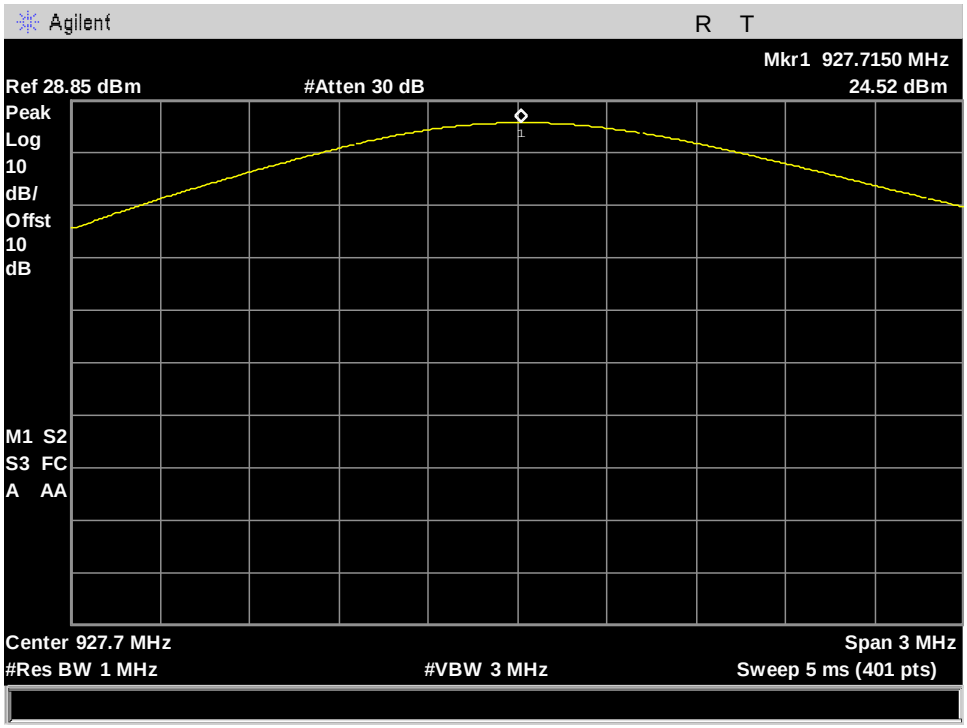

Figure 48. FCC_C_High Ch_927.7MHz_500KHz_Output Power_Port 2_15dBi

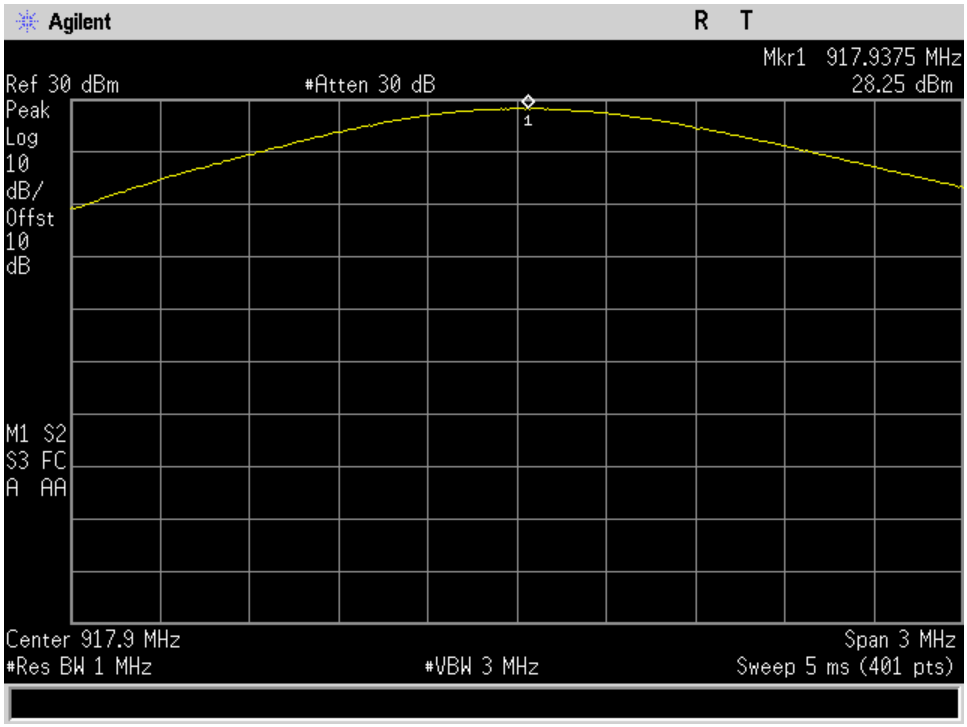

Figure 49. FCC_C_Low Ch_917.9MHz_200KHz_Output Power_Port 2_9.5dBi

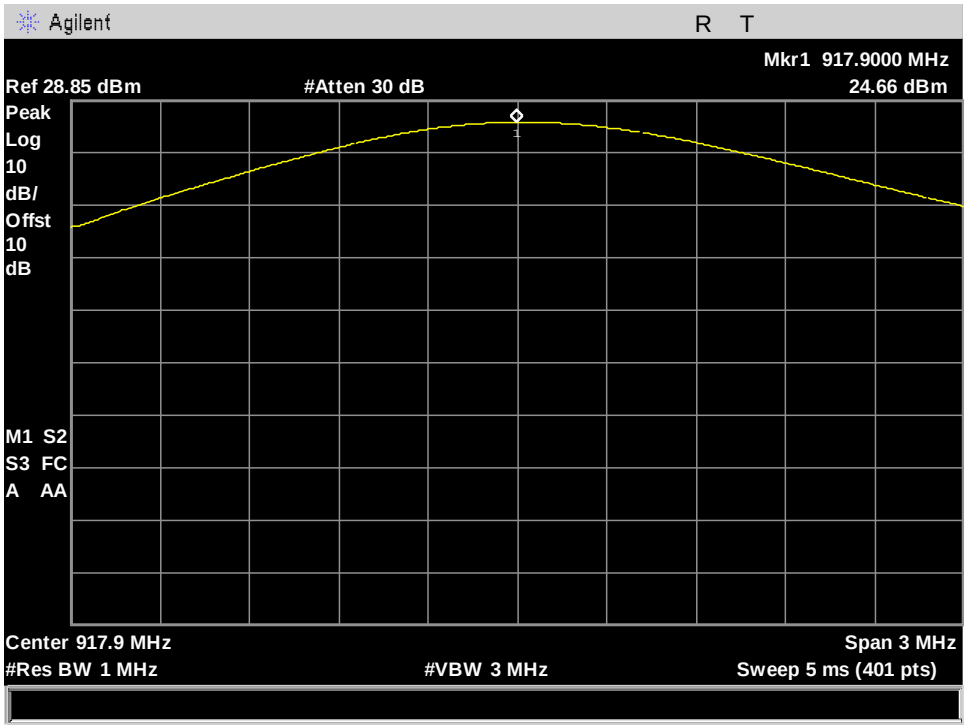

Figure 50. FCC_C_Low Ch_917.9MHz_500KHz_Output Power_Port 2_13dBi

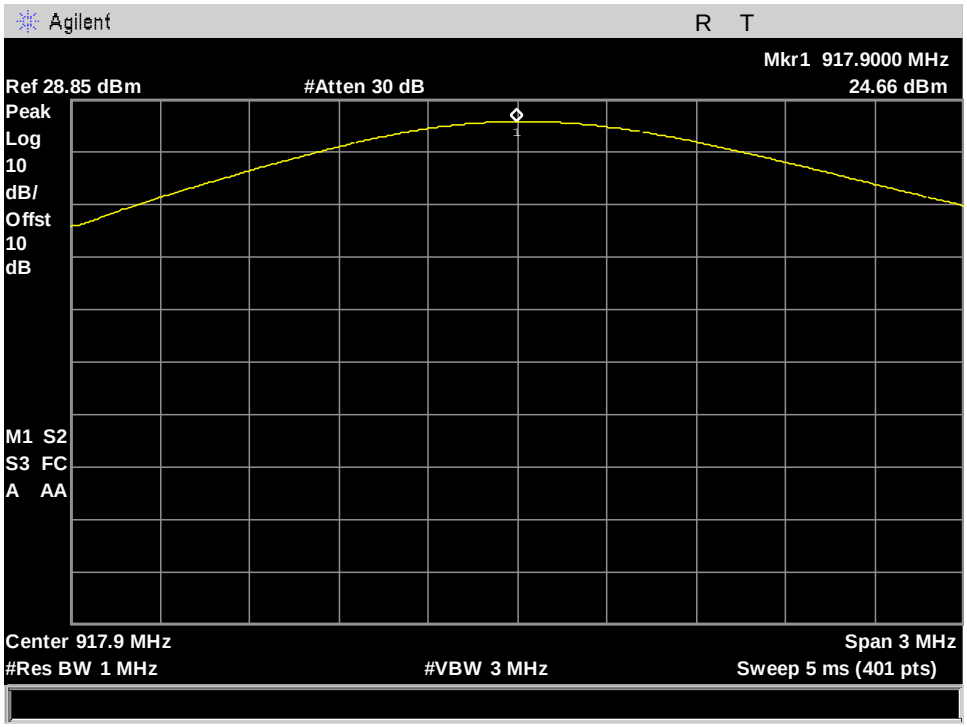

Figure 51. FCC_C_Low Ch_917.9MHz_500KHz_Output Power_Port 2_15dBi

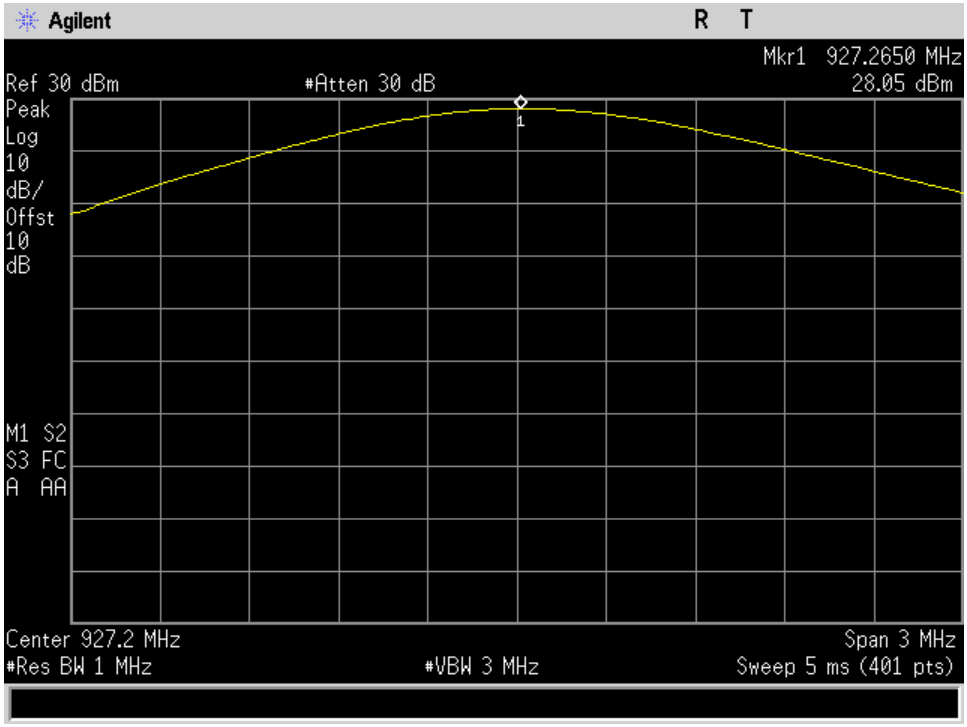

Figure 52. FCC_Dense_High Ch_927.25MHz_500KHz_Output Power_Port 2_9.5dBi

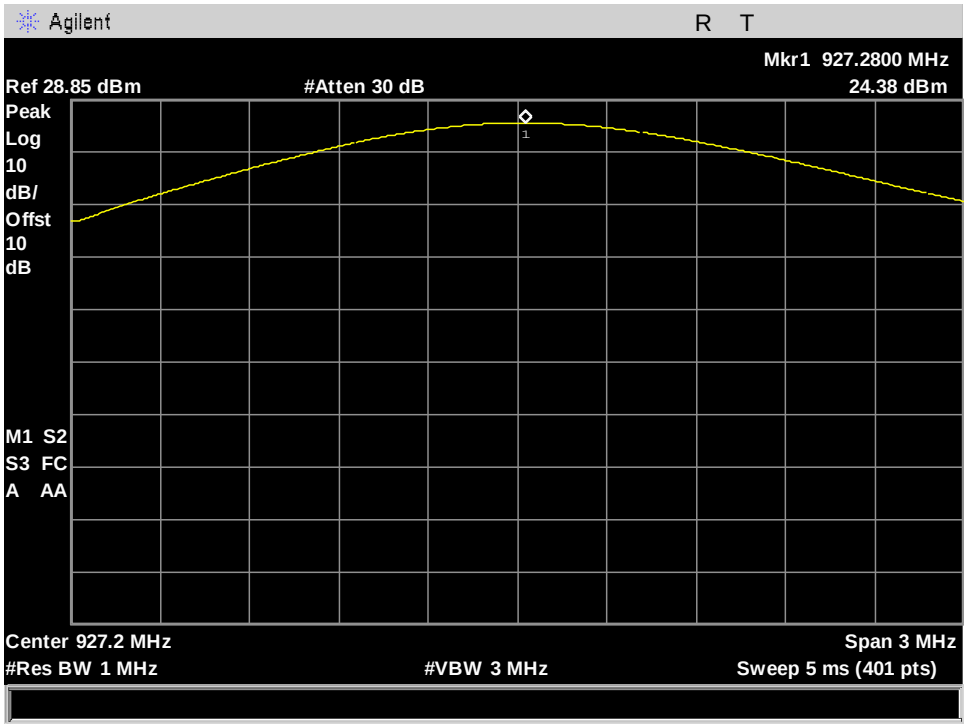

Figure 53. FCC_Dense_High Ch_927.25MHz_500KHz_Output Power_Port 2_13dBi

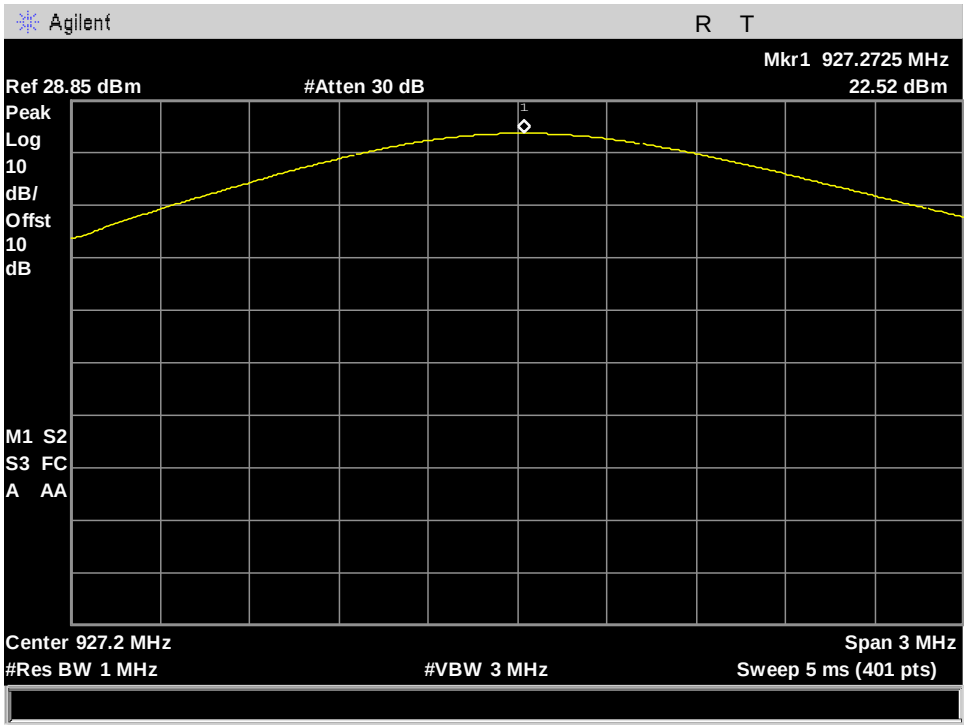

Figure 54. FCC_Dense_High Ch_927.25MHz_500KHz_Output Power_Port 2_15dBi

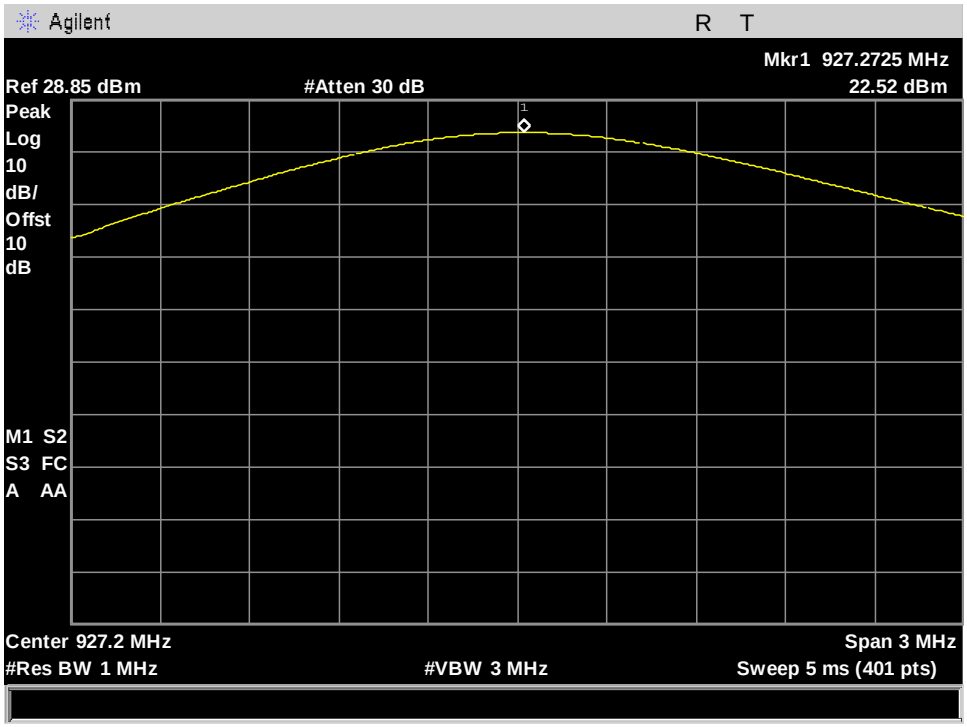

Figure 55. FCC_Dense_Low Ch_902.75MHz_500KHz_Output Power_Port 2_9.5dBi

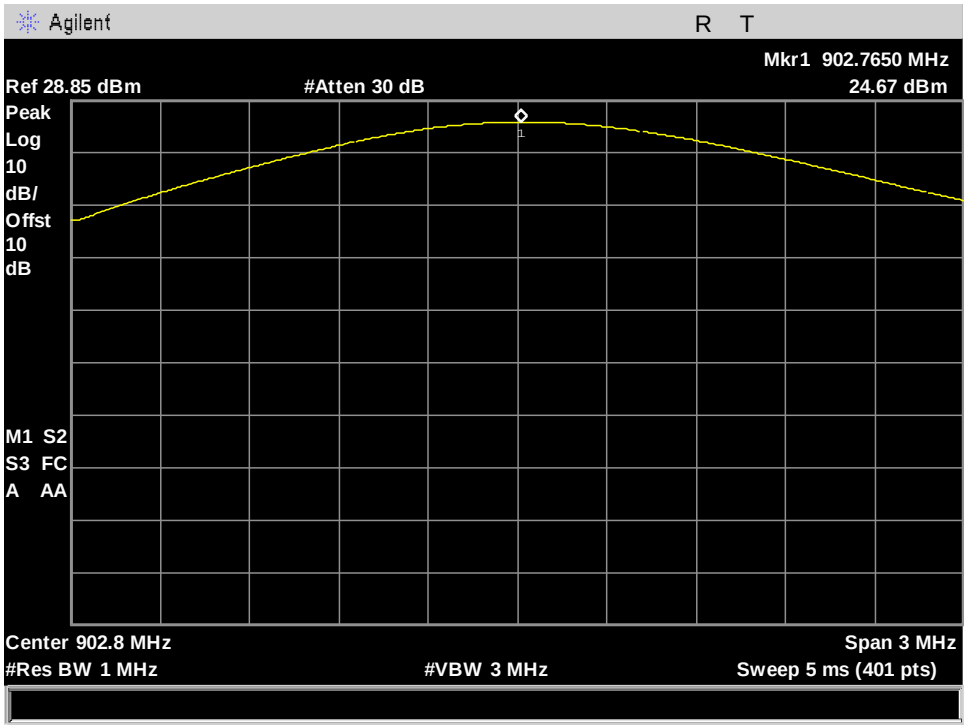

Figure 56. FCC_Dense_Low Ch_902.75MHz_500KHz_Output Power_Port 2_13dBi

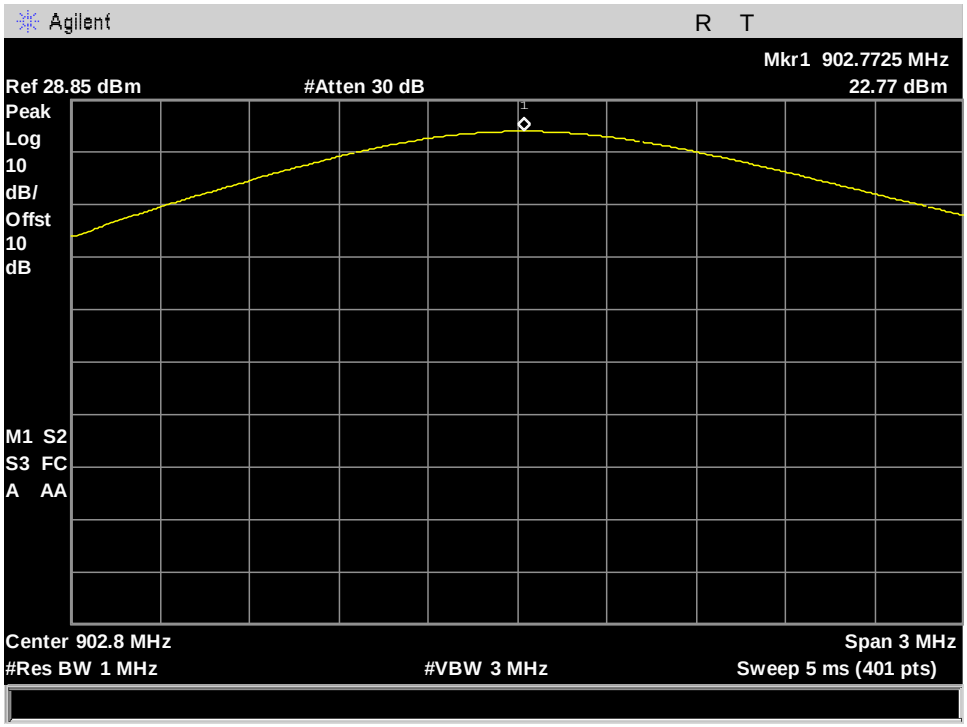

Figure 57. FCC_Dense_Low Ch_902.75MHz_500KHz_Output Power_Port 2_15dBi

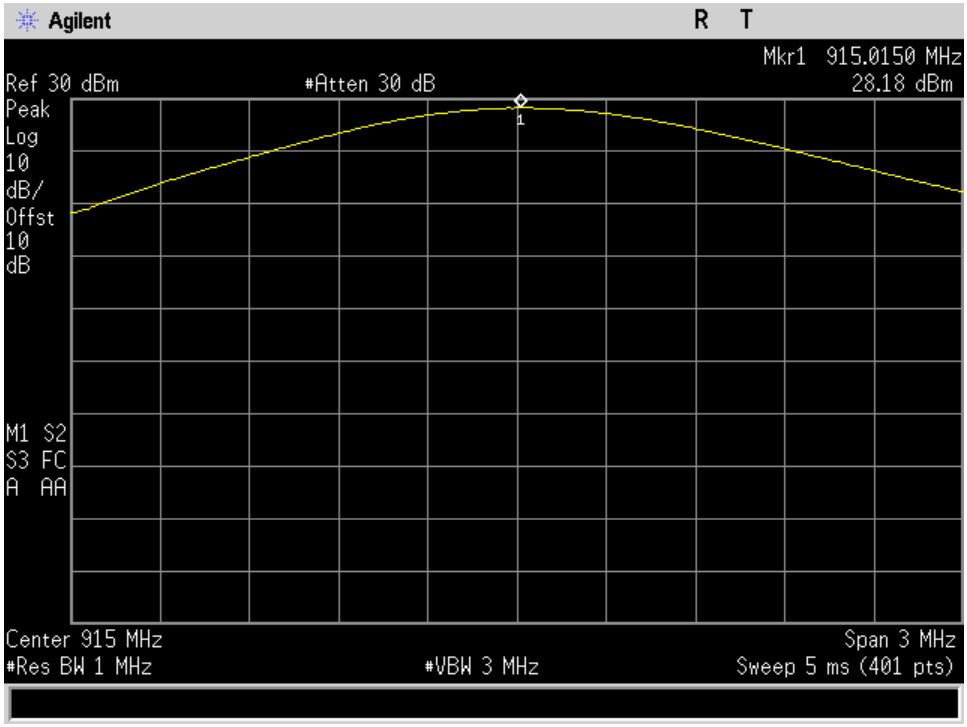

Figure 58. FCC_Dense_Mid Ch_915.00MHz_500KHz_Output Power_Port 2_9.5dBi

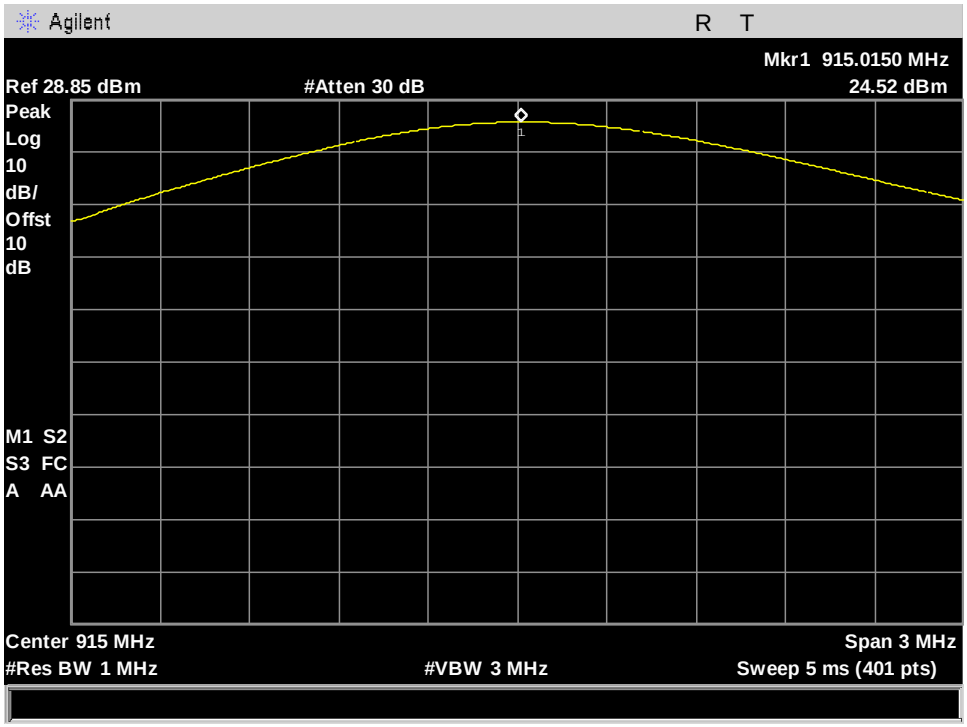

Figure 59. FCC_Dense_Mid Ch_915.00MHz_500KHz_Output Power_Port 2_13dBi

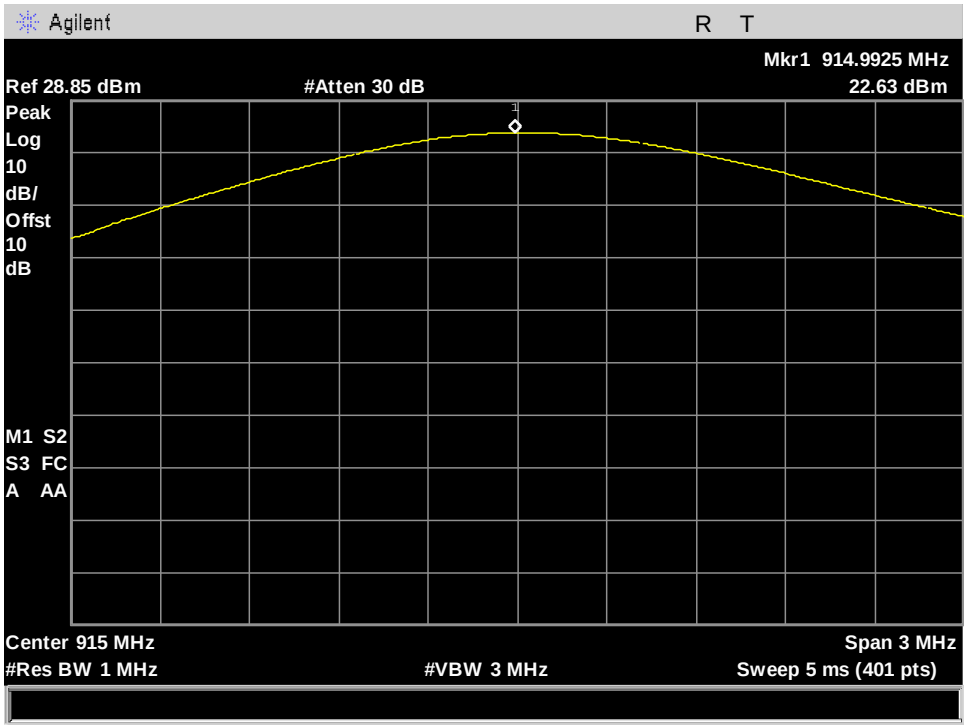

Figure 60. FCC_Dense_Mid Ch_915.00MHz_500KHz_Output Power_Port 2_15dBi

Title 47 of the CFR, Part 15 §15.247(d); §15.209; §15.205 Radiated Spurious Emissions

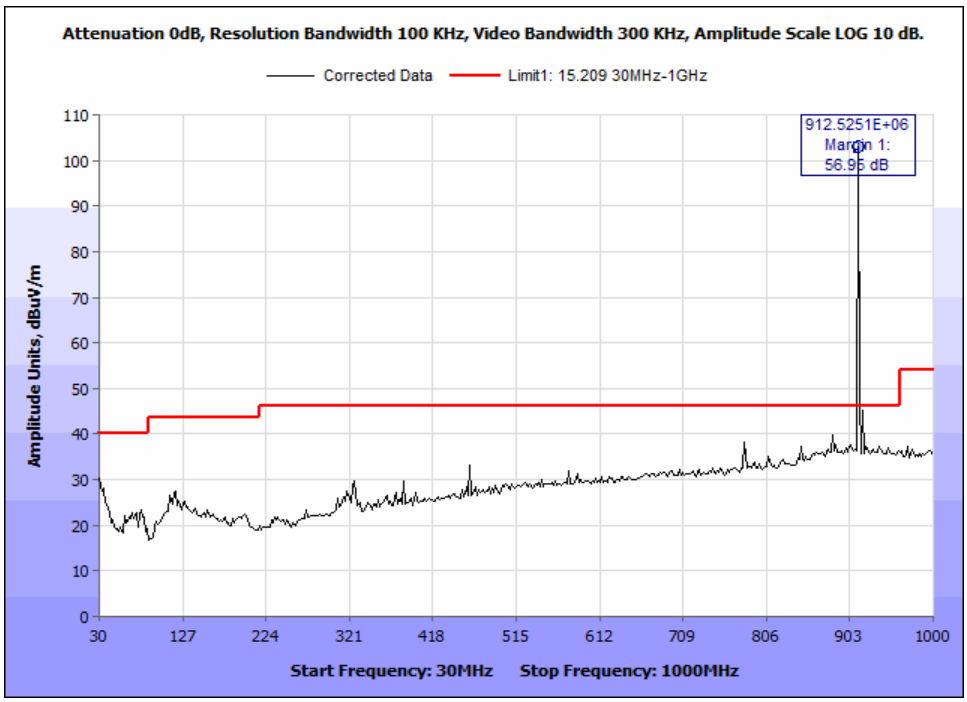

Figure 61. 15.209 FCC A - High Channel - 912.1MHz - 13dBi - 30-1000MHz.

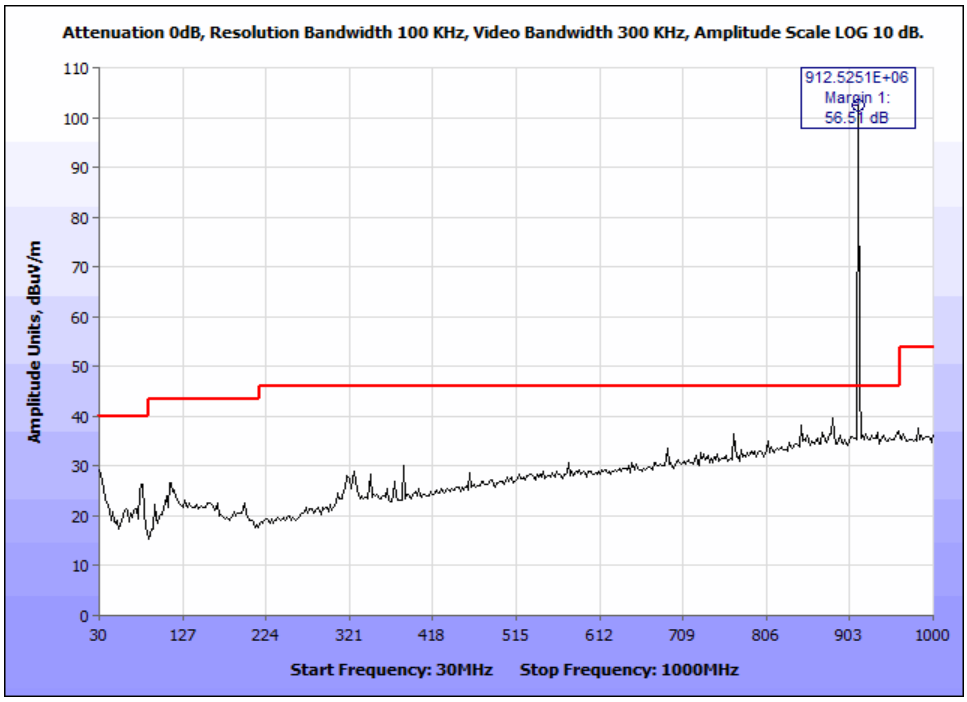

Figure 62. 15.209 FCC A - High Channel - 912.1MHz - 15dBi - 30-1000MHz.

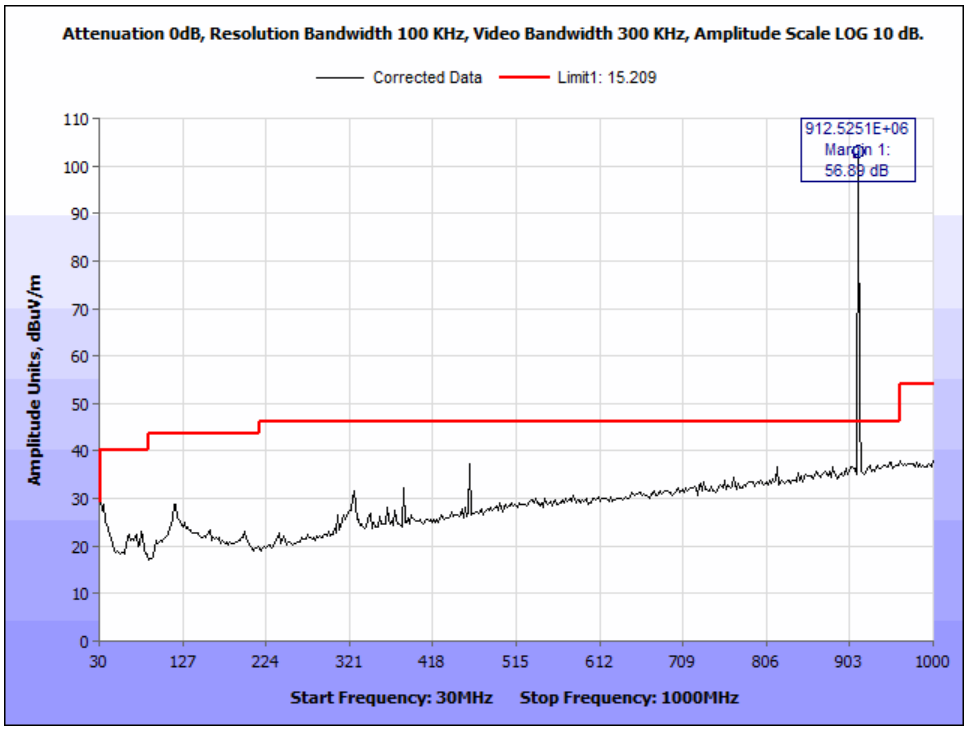

Figure 63. 15.209 FCC A - High Channel - 912.1MHz - 9.5dBi - 30-1000MHz.

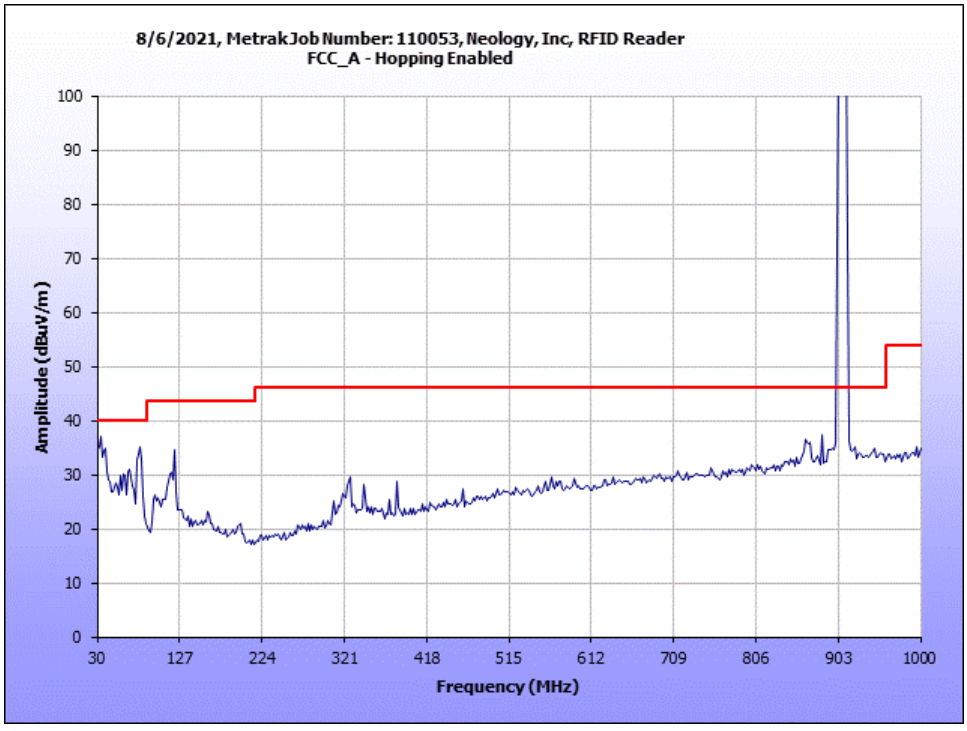

Figure 64. 15.209 FCC A - Hopping - 13dBi - 30-1000MHz.

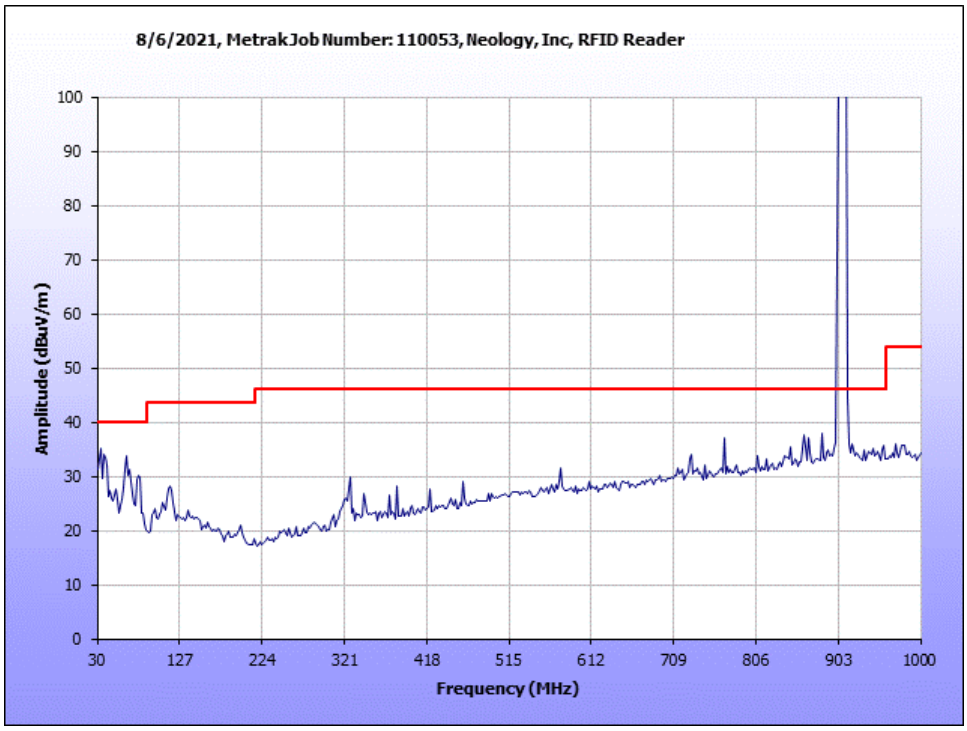

Figure 65. 15.209 FCC A - Hopping - 15dBi - 30-1000MHz.

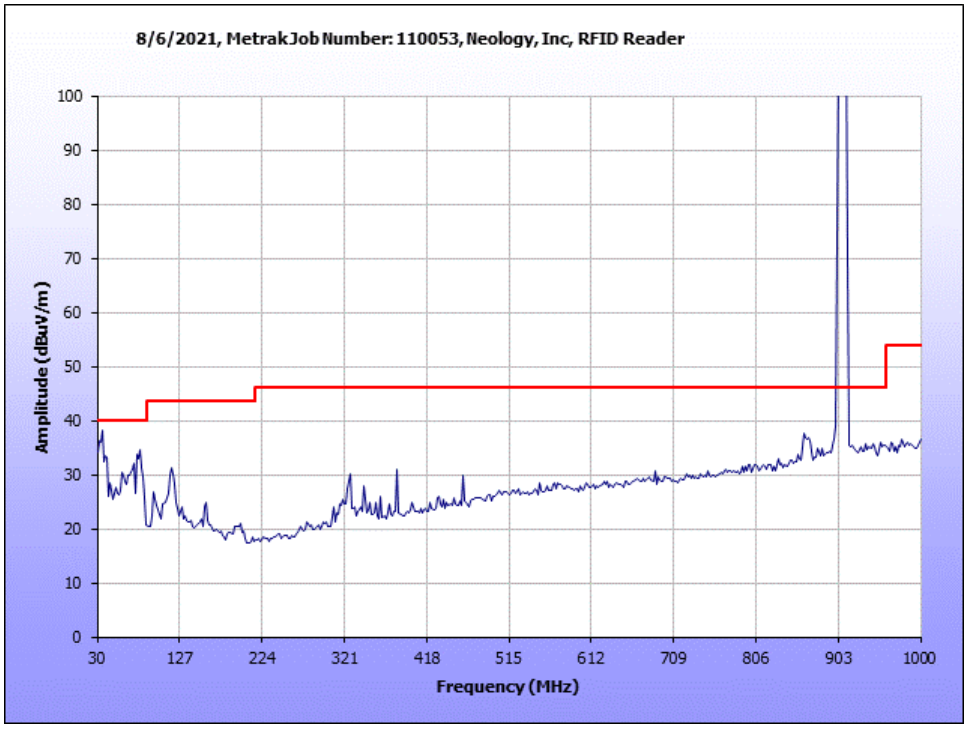

Figure 66. 15.209 FCC A - Hopping - 9.5dBi - 30-1000MHz.

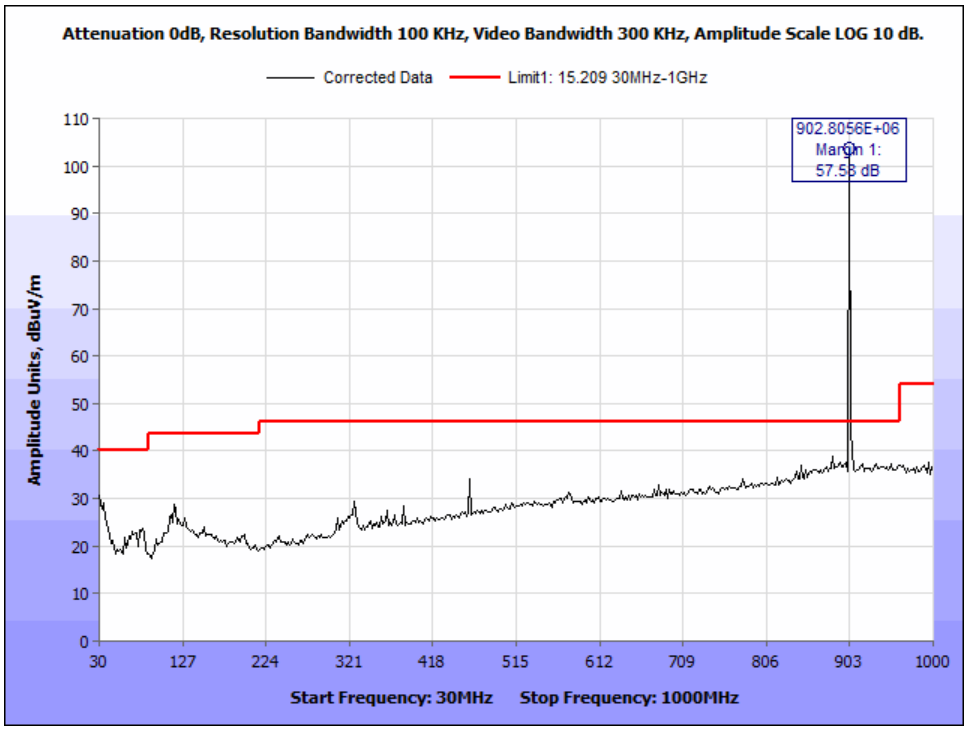

Figure 67. 15.209 FCC A - Low Channel - 902.3MHz - 13dBi - 30-1000MHz.

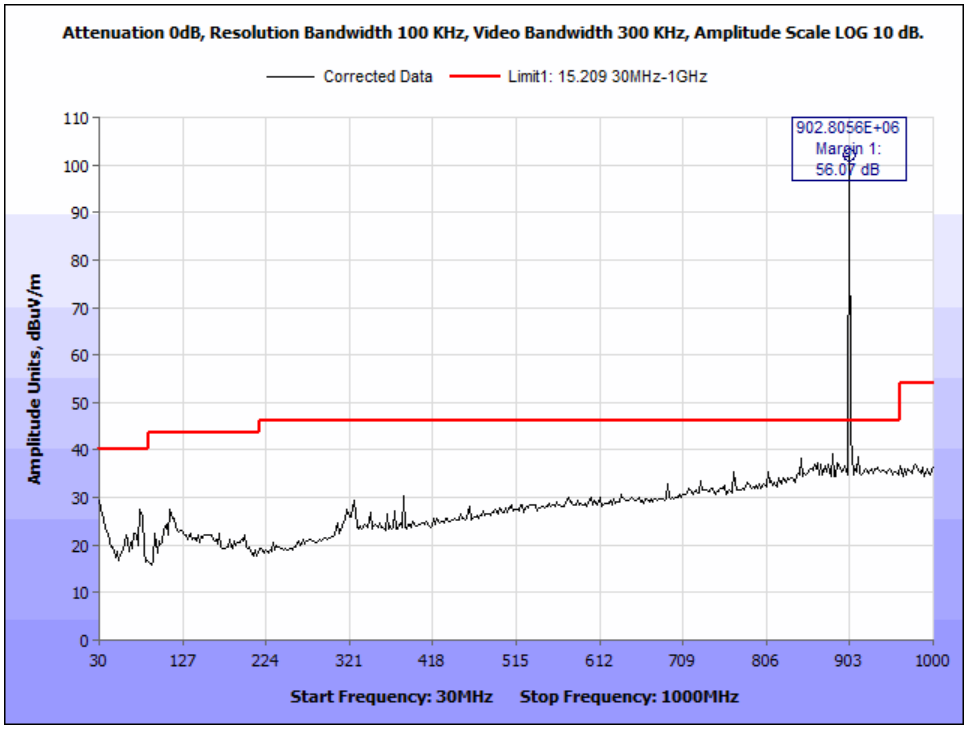

Figure 68. 15.209 FCC A - Low Channel - 902.3MHz - 15dBi - 30-1000MHz.

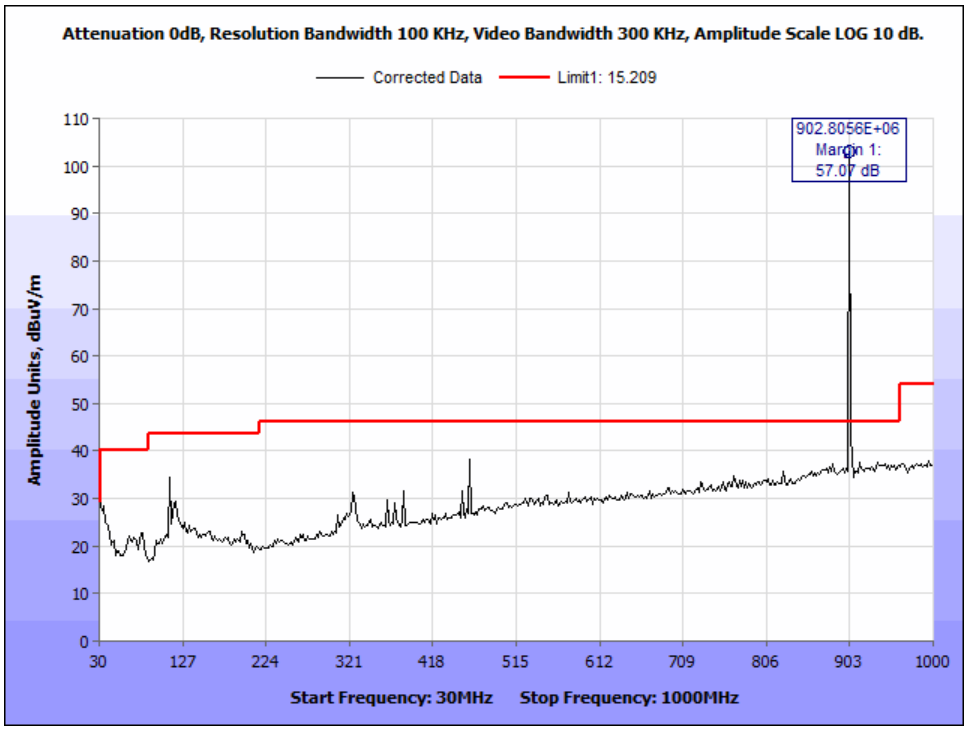

Figure 69. 15.209 FCC A - Low Channel - 902.3MHz - 9.5dBi - 30-1000MHz.

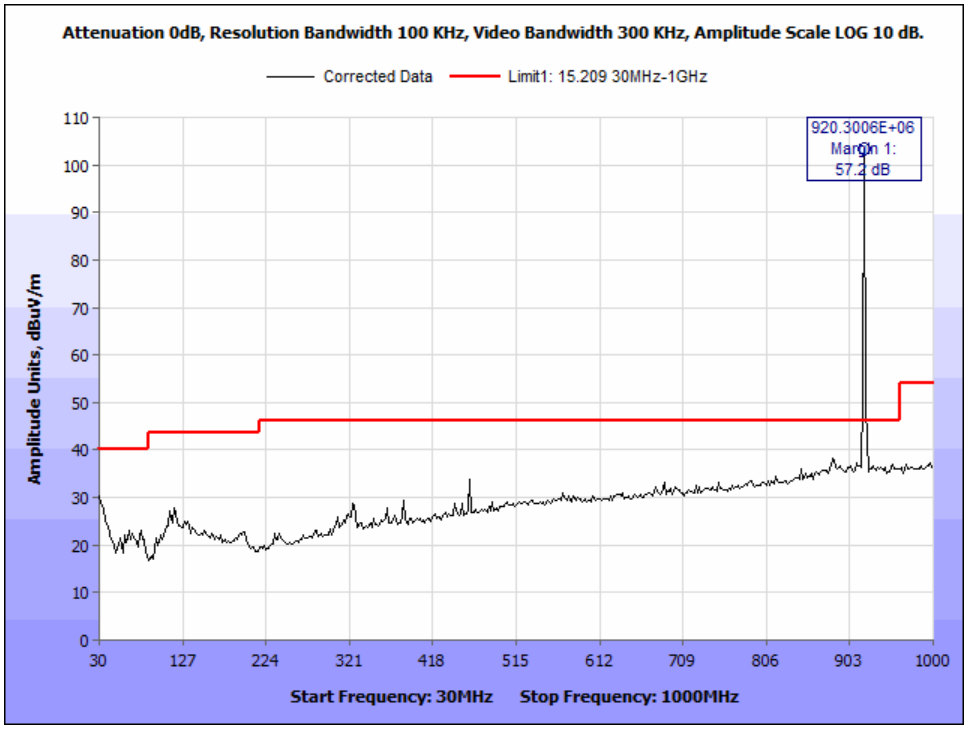

Figure 70. 15.209 FCC B - High Channel - 919.9MHz - 13dBi - 30-1000MHz.

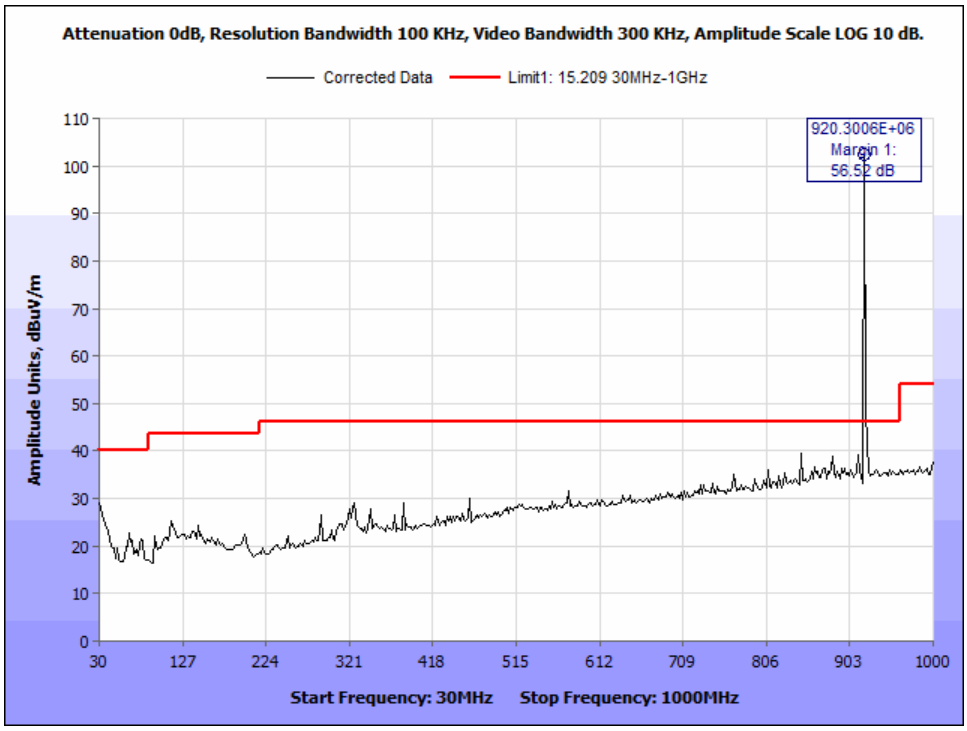

Figure 71. 15.209 FCC B - High Channel - 919.9MHz - 15dBi - 30-1000MHz.

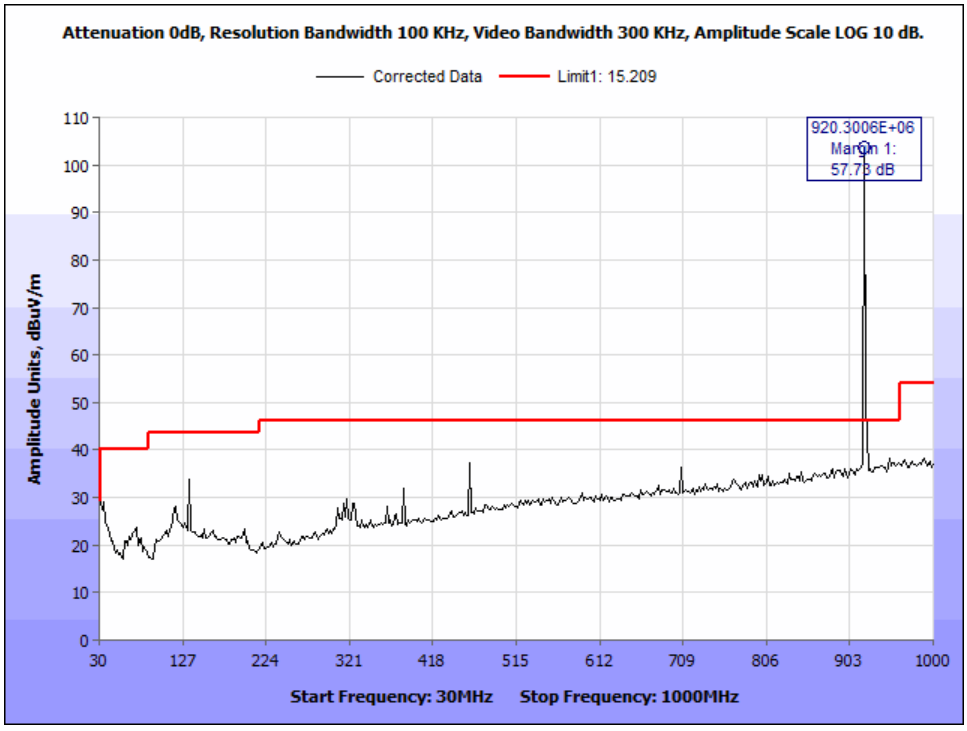

Figure 72. 15.209 FCC B - High Channel - 919.9MHz - 9.5dBi - 30-1000MHz.

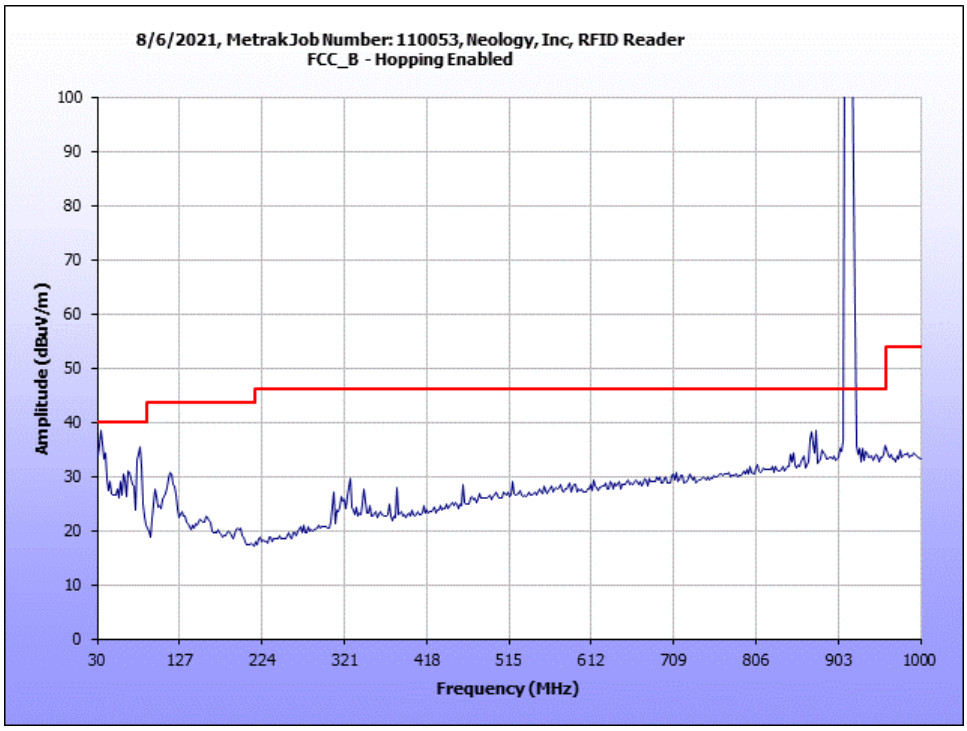

Figure 73. 15.209 FCC B - Hopping - 13dBi - 30-1000MHz.

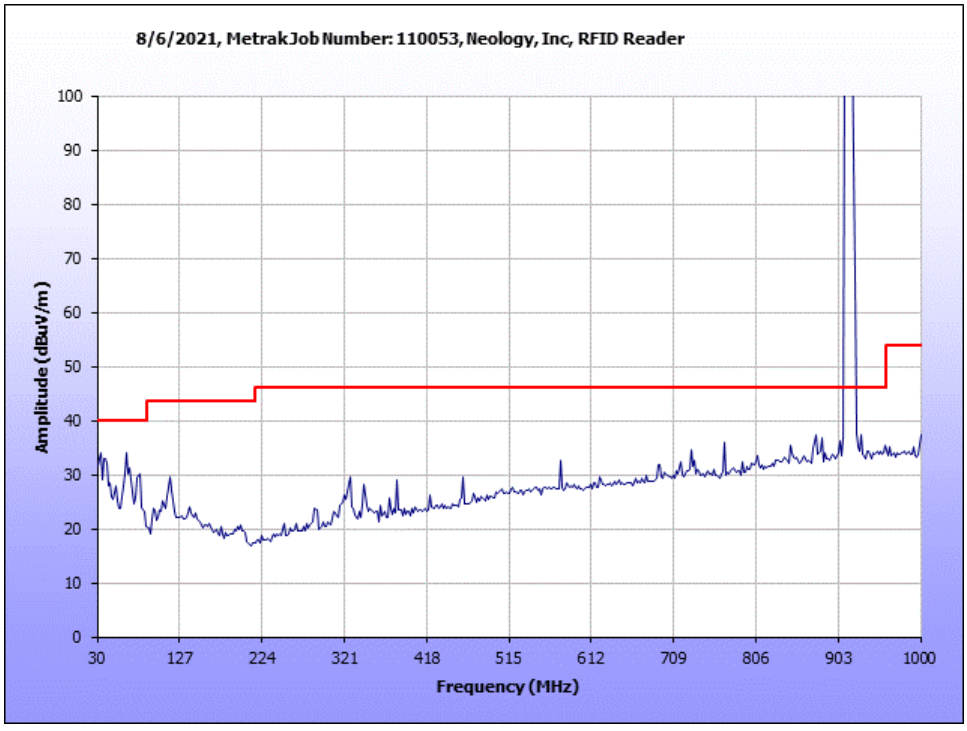

Figure 74. 15.209 FCC B - Hopping - 15dBi - 30-1000MHz.

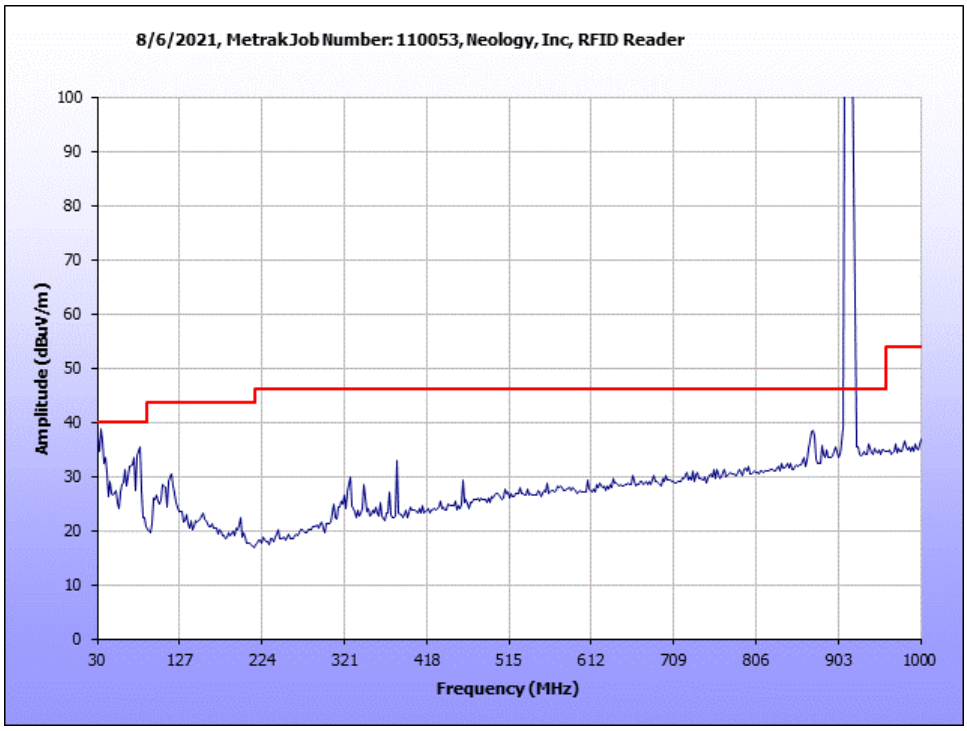

Figure 75. 15.209 FCC B - Hopping - 9.5dBi - 30-1000MHz.

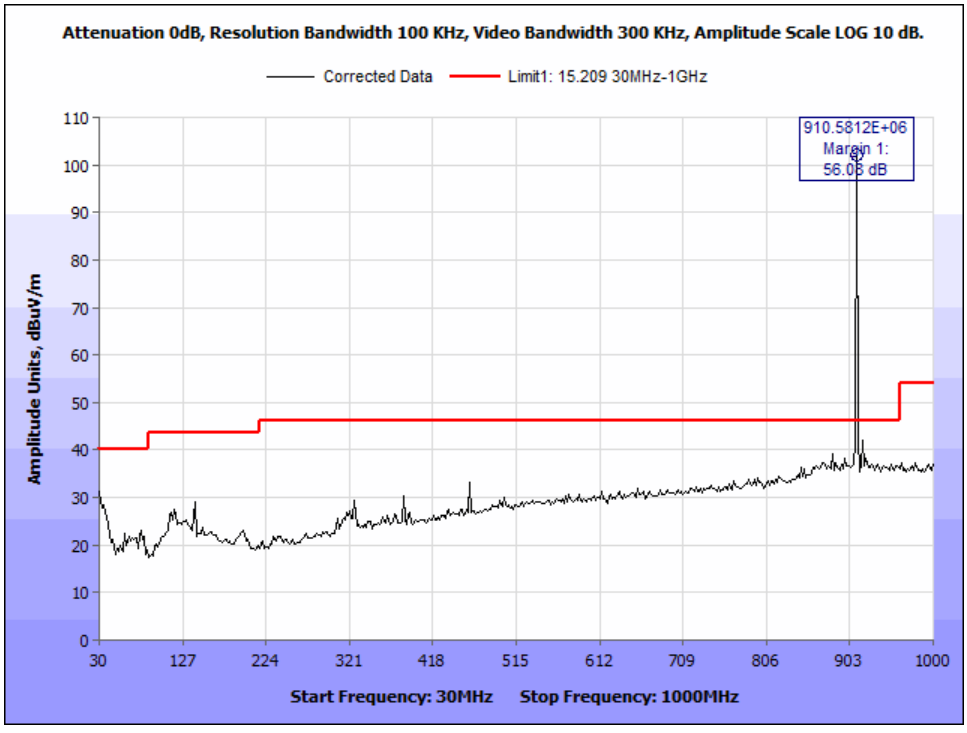

Figure 76. 15.209 FCC B - Low Channel - 910.1MHz - 13dBi - 30-1000MHz.

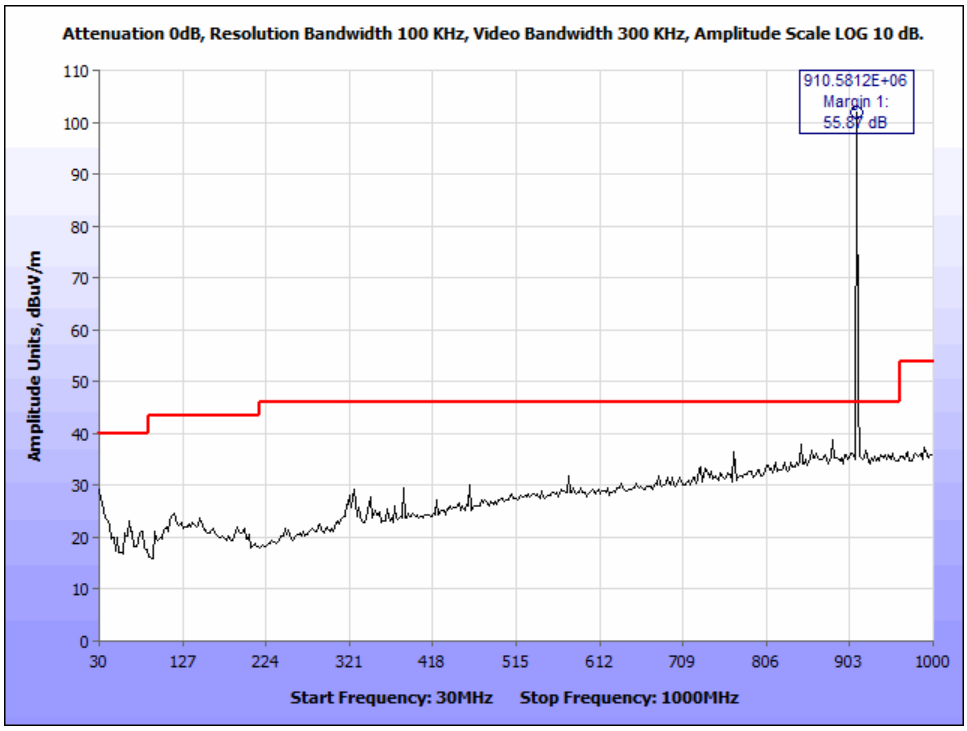

Figure 77. 15.209 FCC B - Low Channel - 910.1MHz - 15dBi - 30-1000MHz.

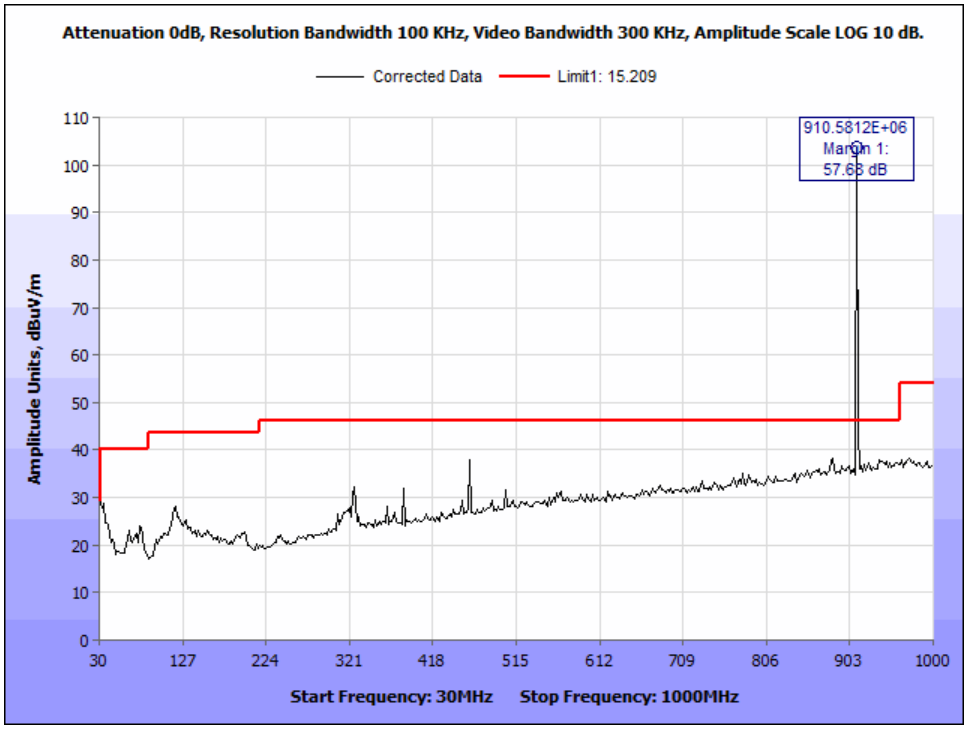

Figure 78. 15.209 FCC B - Low Channel - 910.1MHz - 9.5dBi - 30-1000MHz.

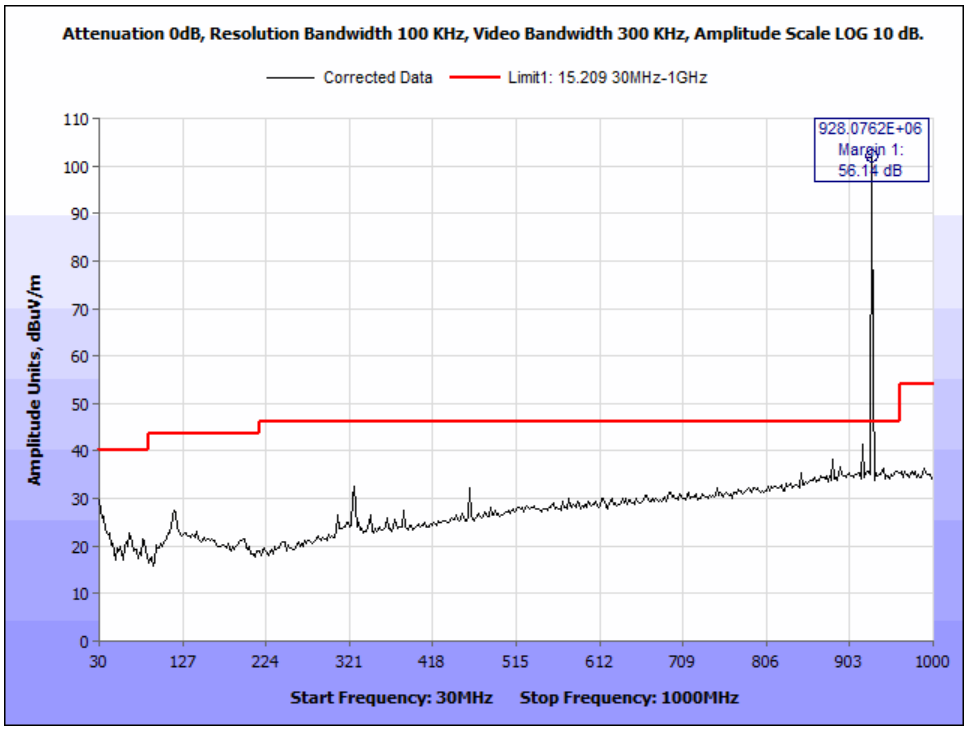

Figure 79. 15.209 FCC C - High Channel - 927.7MHz - 13dBi - 30-1000MHz.

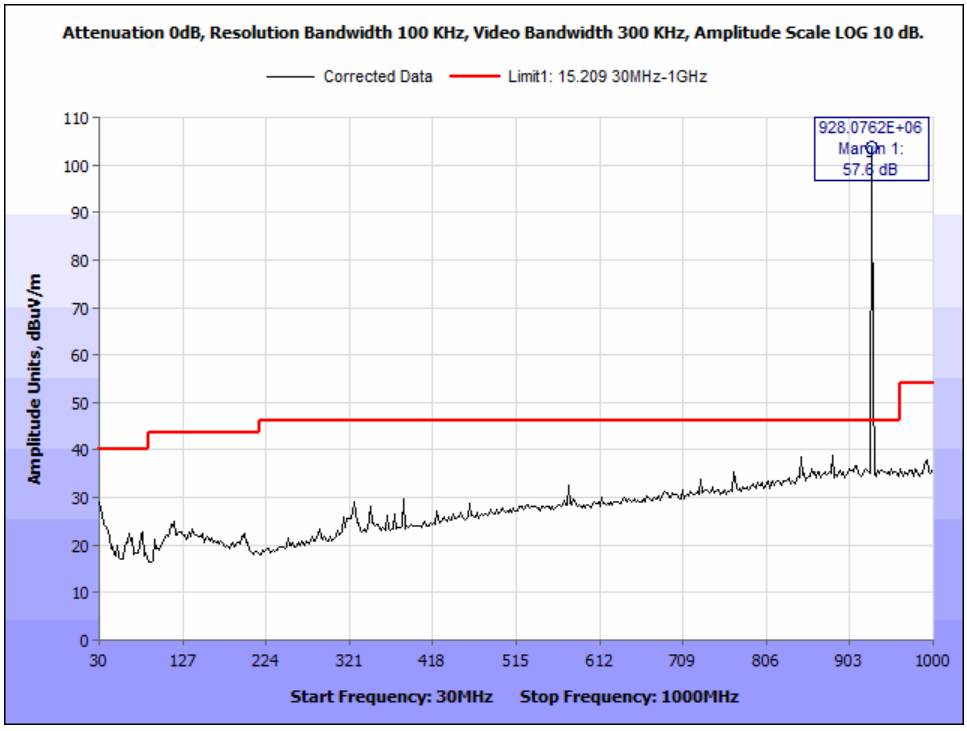

Figure 80. 15.209 FCC C - High Channel - 927.7MHz - 15dBi - 30-1000MHz.

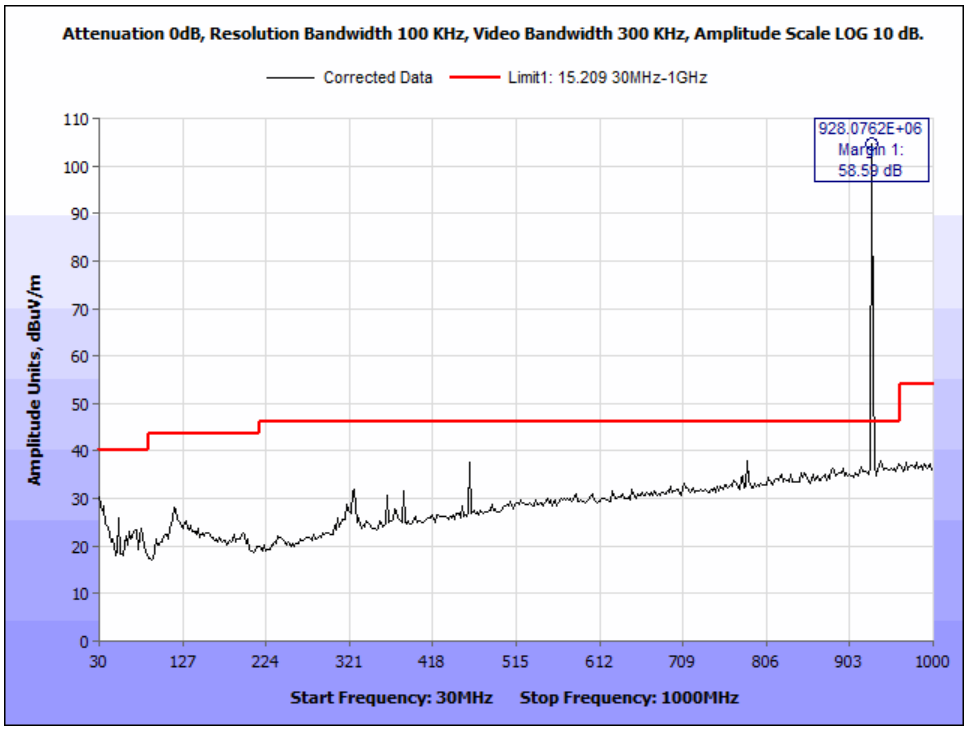

Figure 81. 15.209 FCC C - High Channel - 927.7MHz - 9.5dBi - 30-1000MHz.

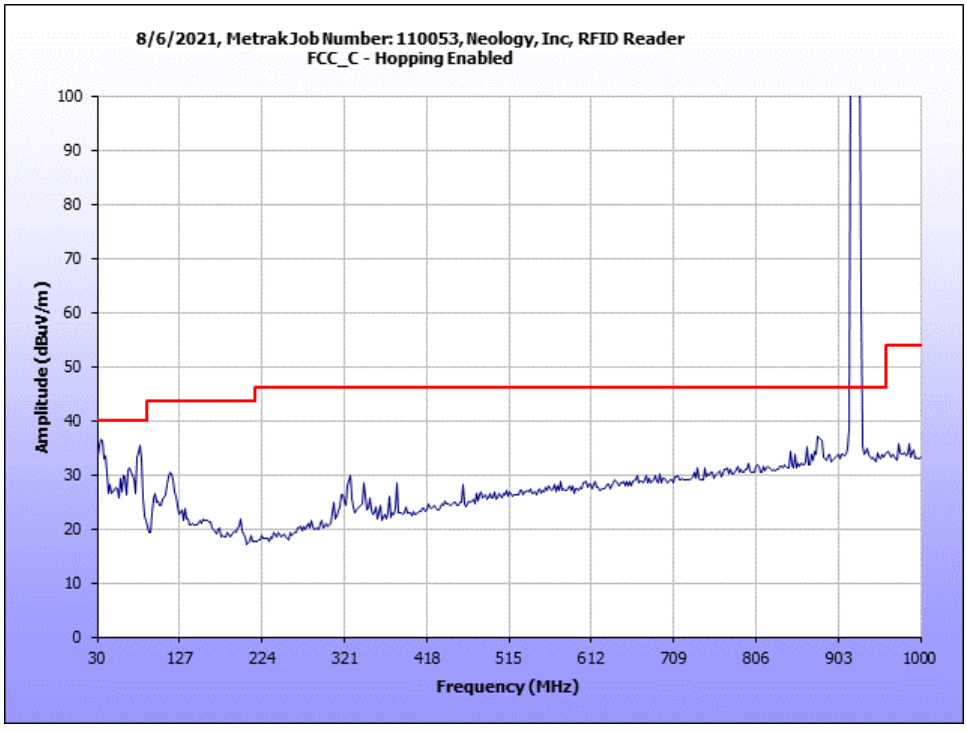

Figure 82. 15.209 FCC C - Hopping - 13dBi - 30-1000MHz.

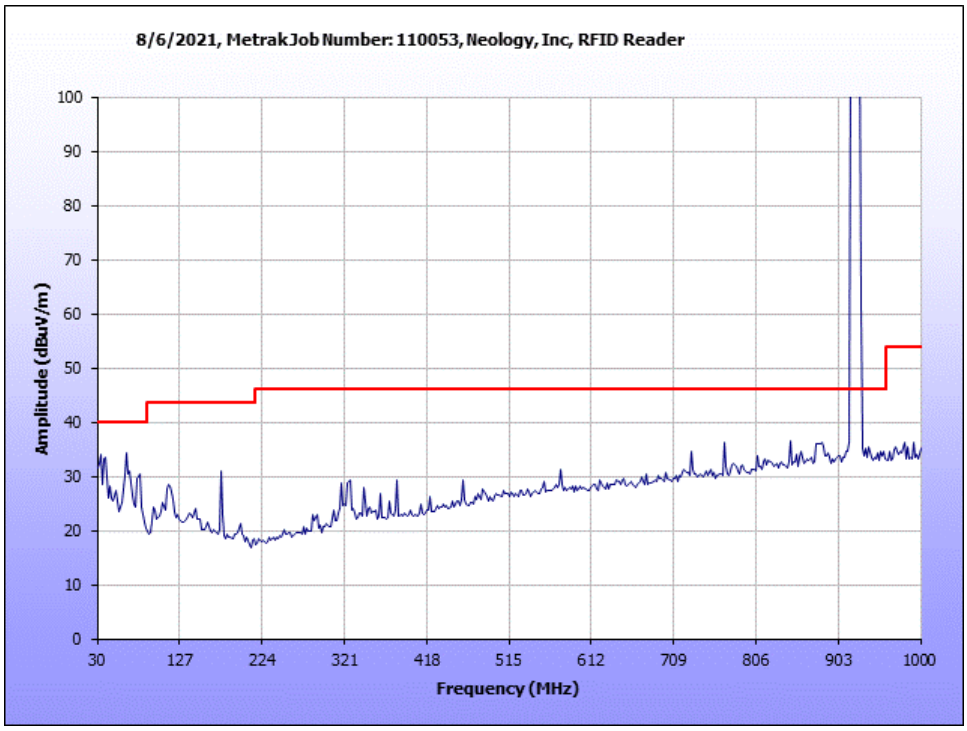

Figure 83. 15.209 FCC C - Hopping - 15dBi - 30-1000MHz.

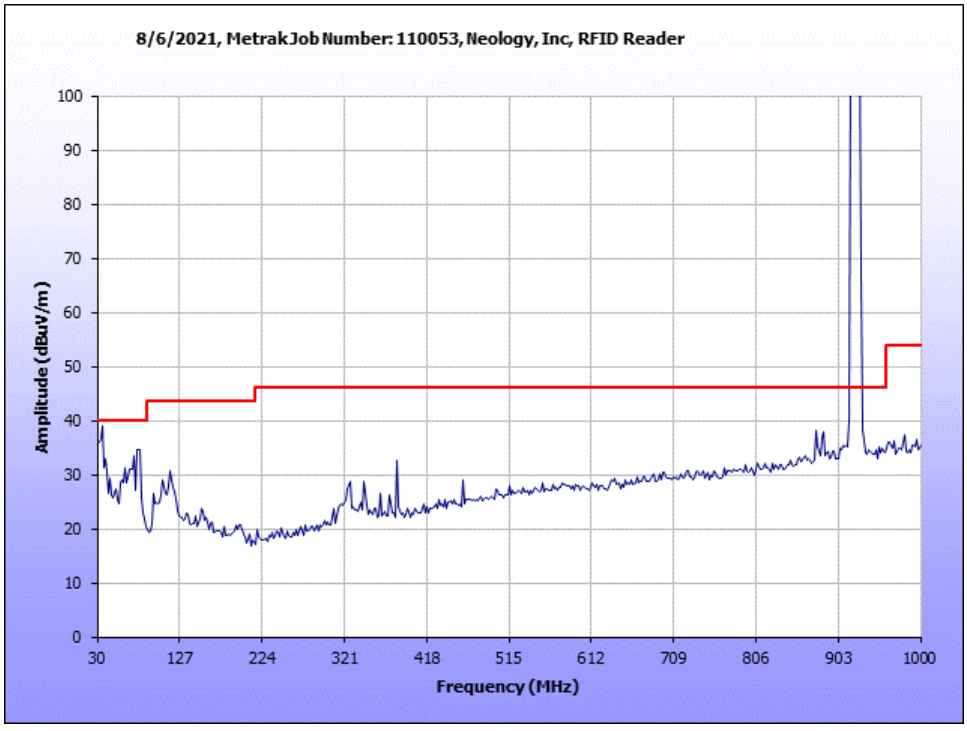

Figure 84. 15.209 FCC C - Hopping - 9.5dBi - 30-1000MHz.

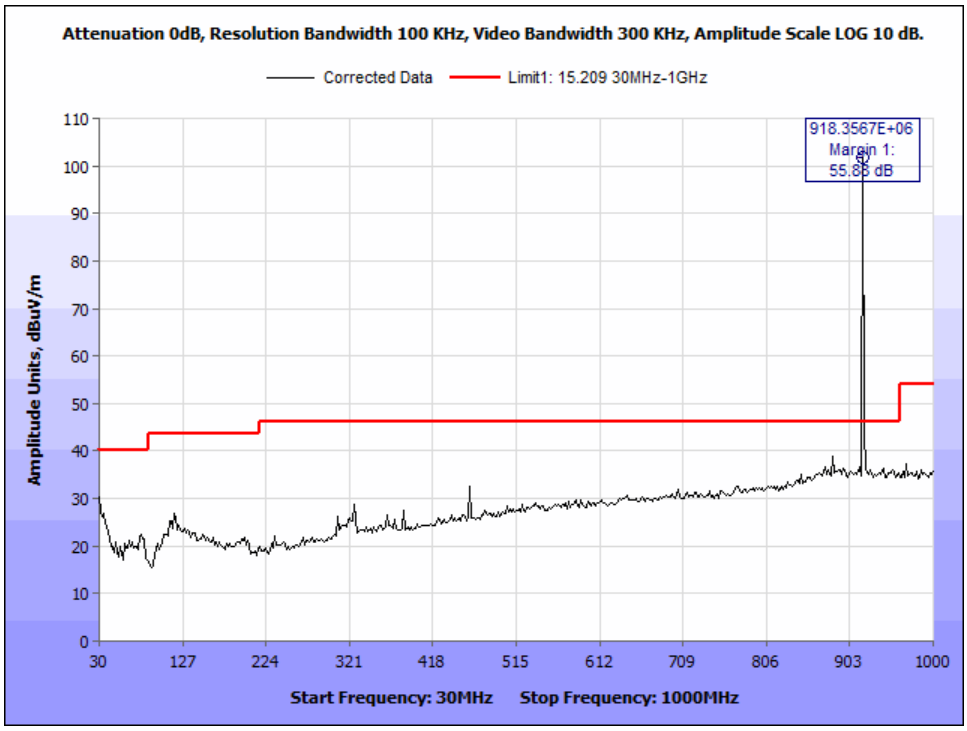

Figure 85. 15.209 FCC C - Low Channel - 917.9MHz - 13dBi - 30-1000MHz.

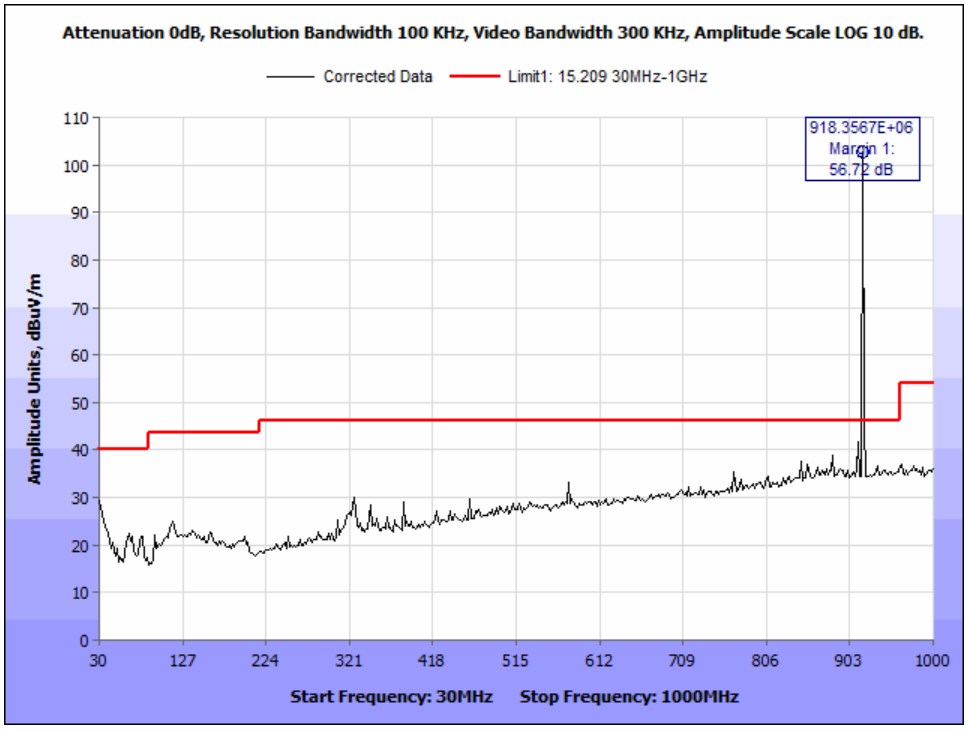

Figure 86. 15.209 FCC C - Low Channel - 917.9MHz - 15dBi - 30-1000MHz.

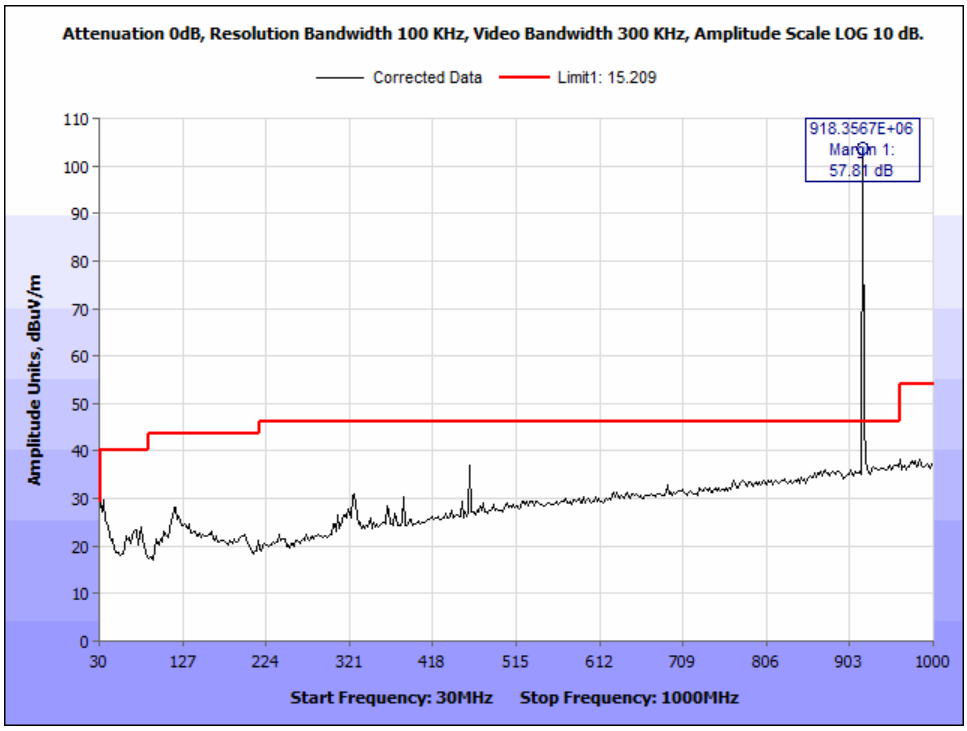

Figure 87. 15.209 FCC C - Low Channel - 917.9MHz - 9.5dBi - 30-1000MHz.

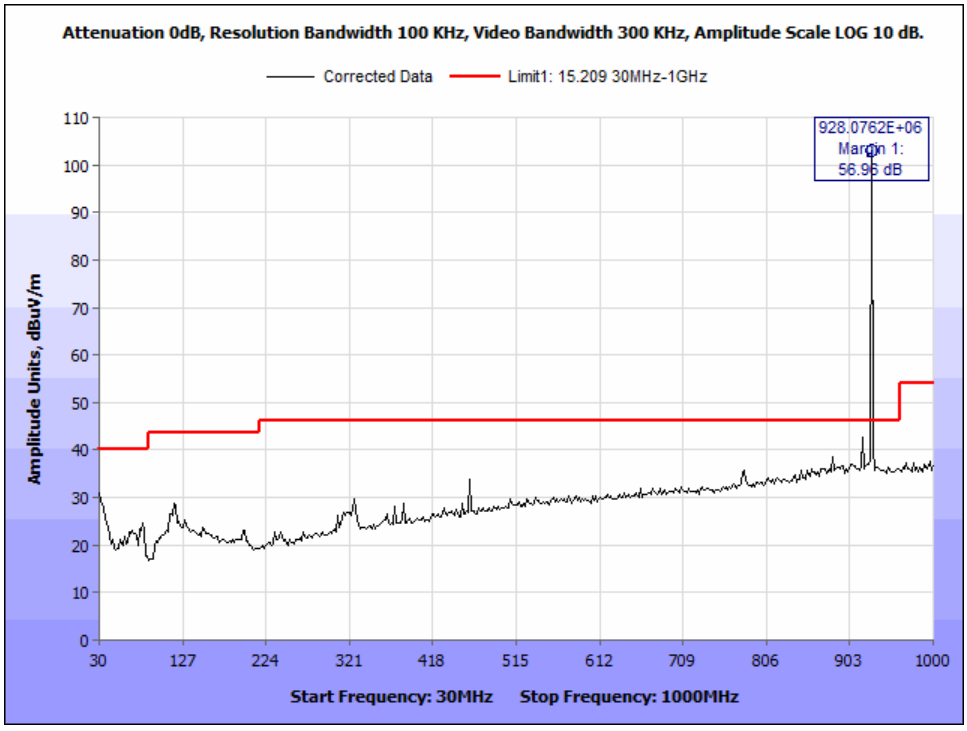

Figure 88. 15.209 FCC Dense - High Channel - 927.25MHz - 13dBi - 30-1000MHz.

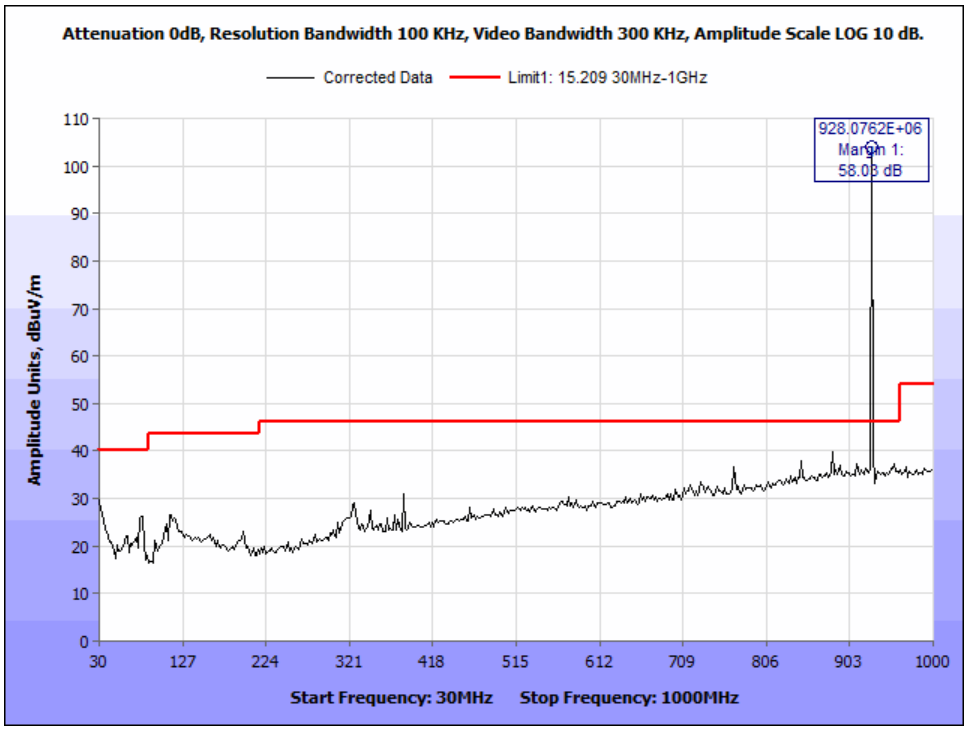

Figure 89. 15.209 FCC Dense - High Channel - 927.25MHz - 15dBi - 30-1000MHz.

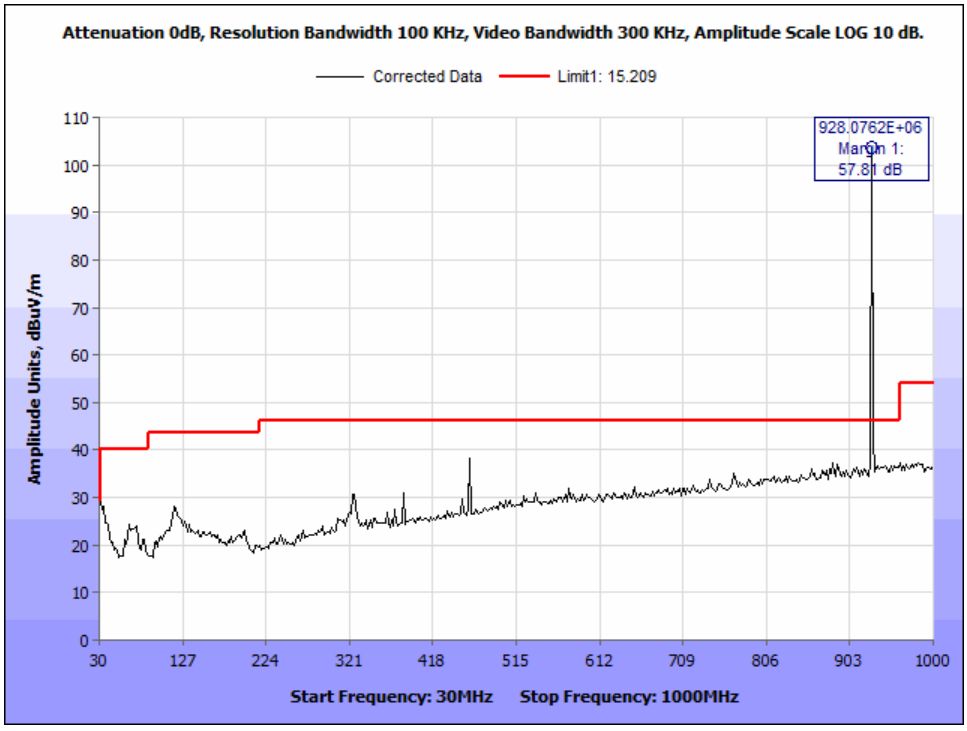

Figure 90. 15.209 FCC Dense - High Channel - 927.25MHz - 9.5dBi - 30-1000MHz.

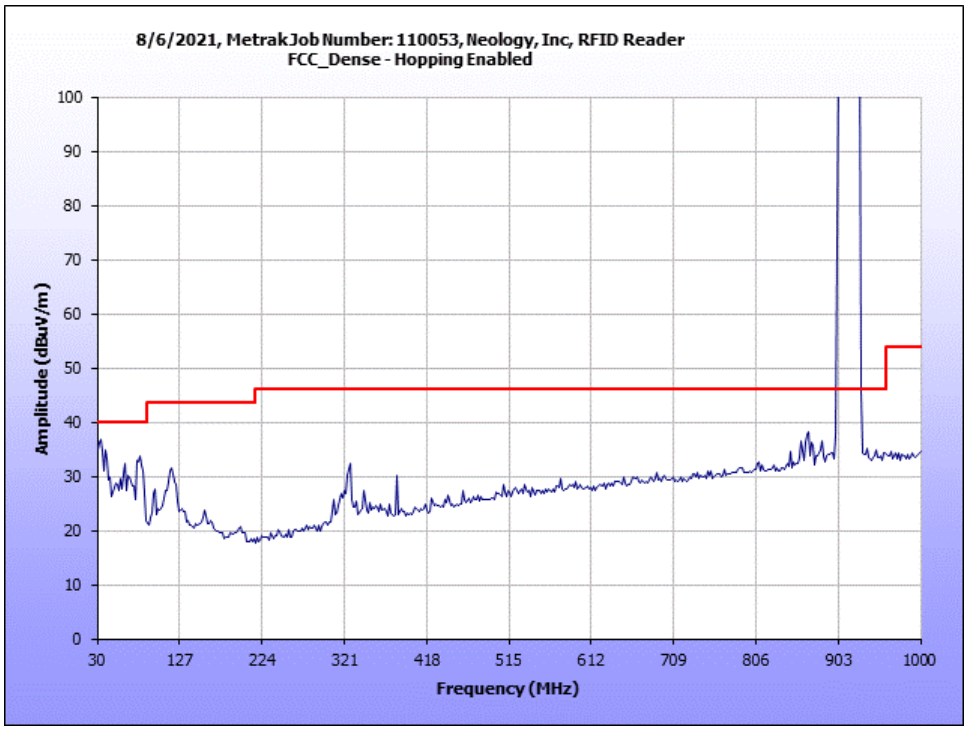

Figure 91. 15.209 FCC Dense - Hopping - 13dBi - 30-1000MHz.

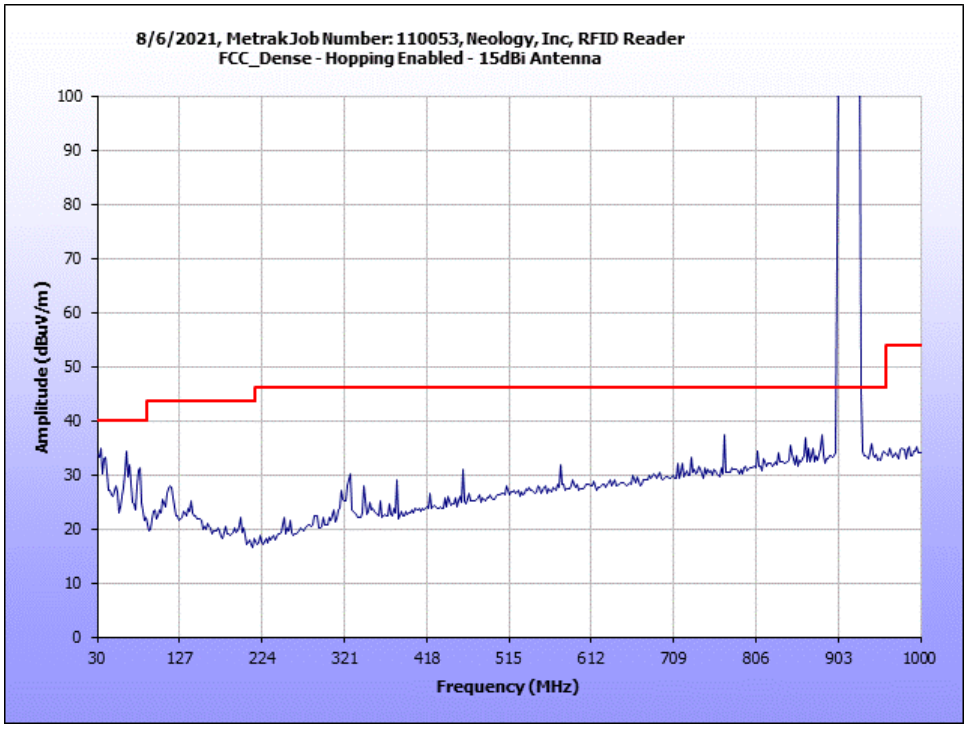

Figure 92. 15.209 FCC Dense - Hopping - 15dBi - 30-1000MHz.

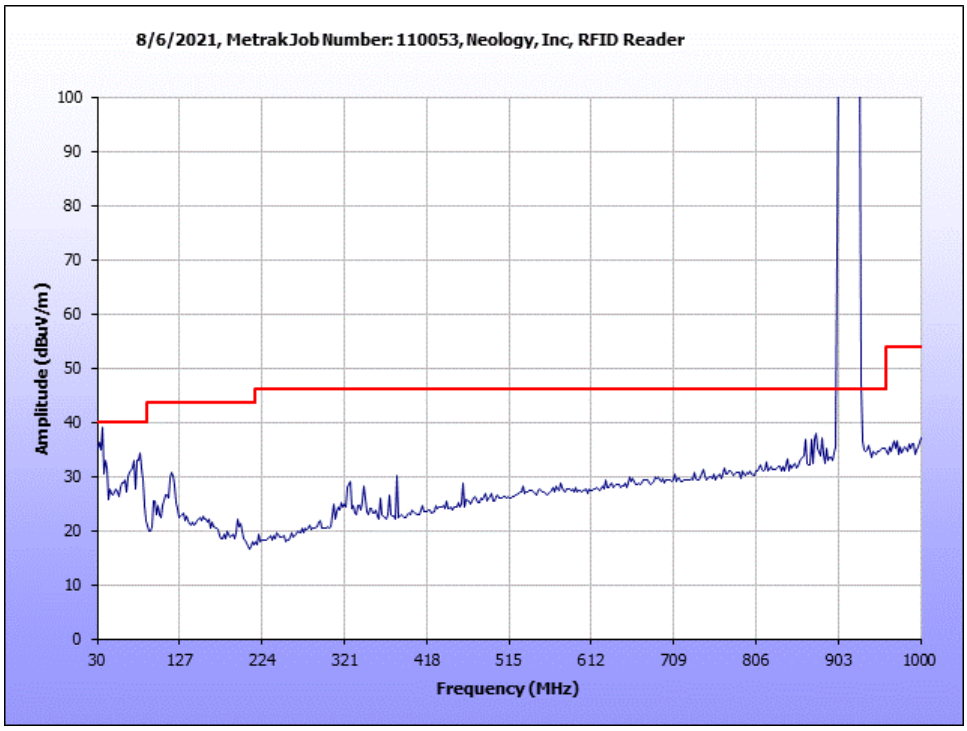

Figure 93. 15.209 FCC Dense - Hopping - 9.5dBi - 30-1000MHz.

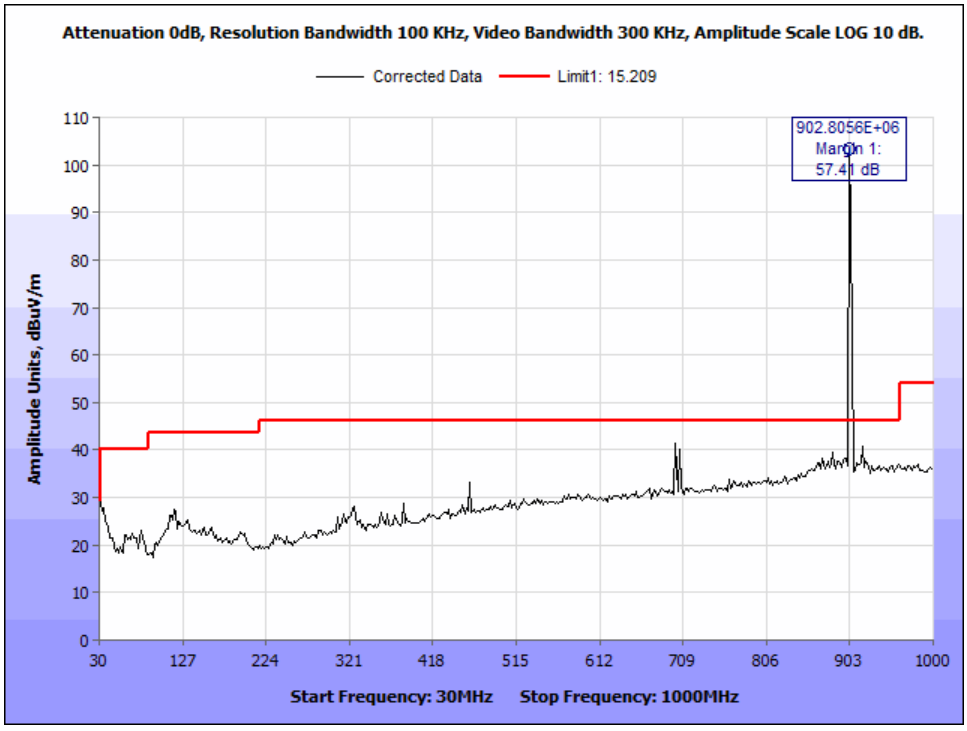

Figure 94. 15.209 FCC Dense - Low Channel - 902.75MHz - 13dBi - 30-1000MHz.

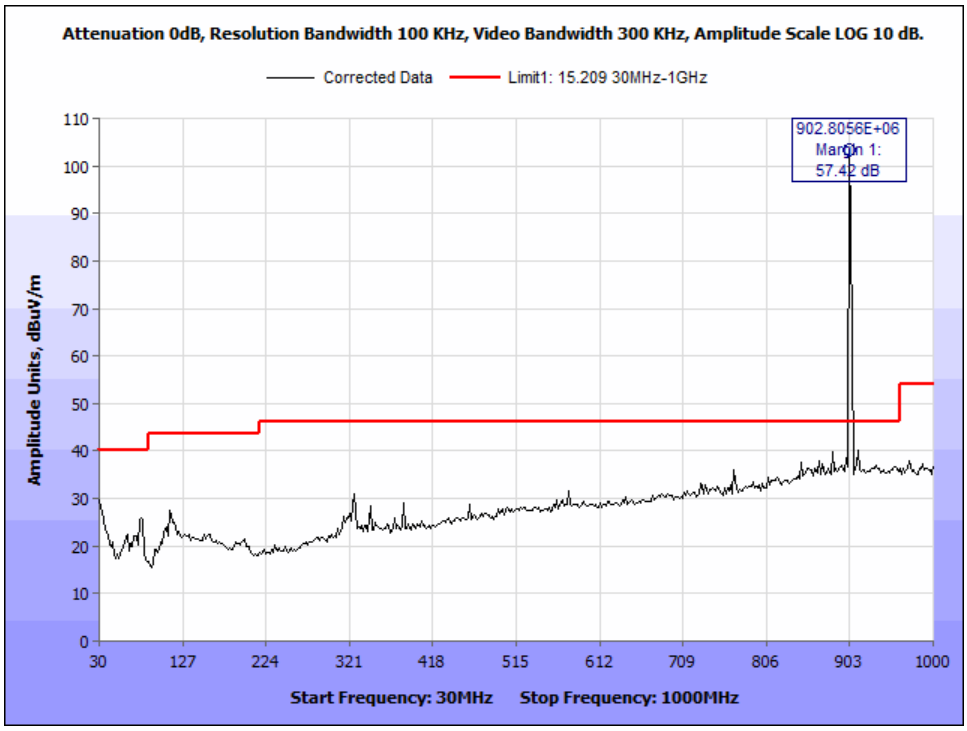

Figure 95. 15.209 FCC Dense - Low Channel - 902.75MHz - 15dBi - 30-1000MHz.

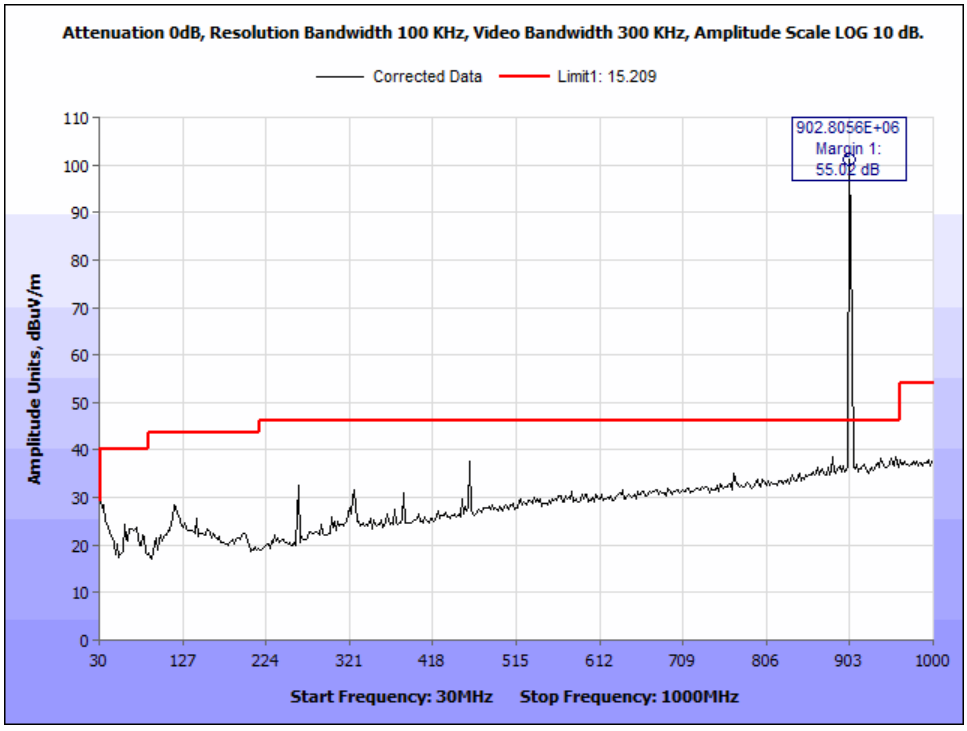

Figure 96. 15.209 FCC Dense - Low Channel - 902.75MHz - 9.5dBi - 30-1000MHz.

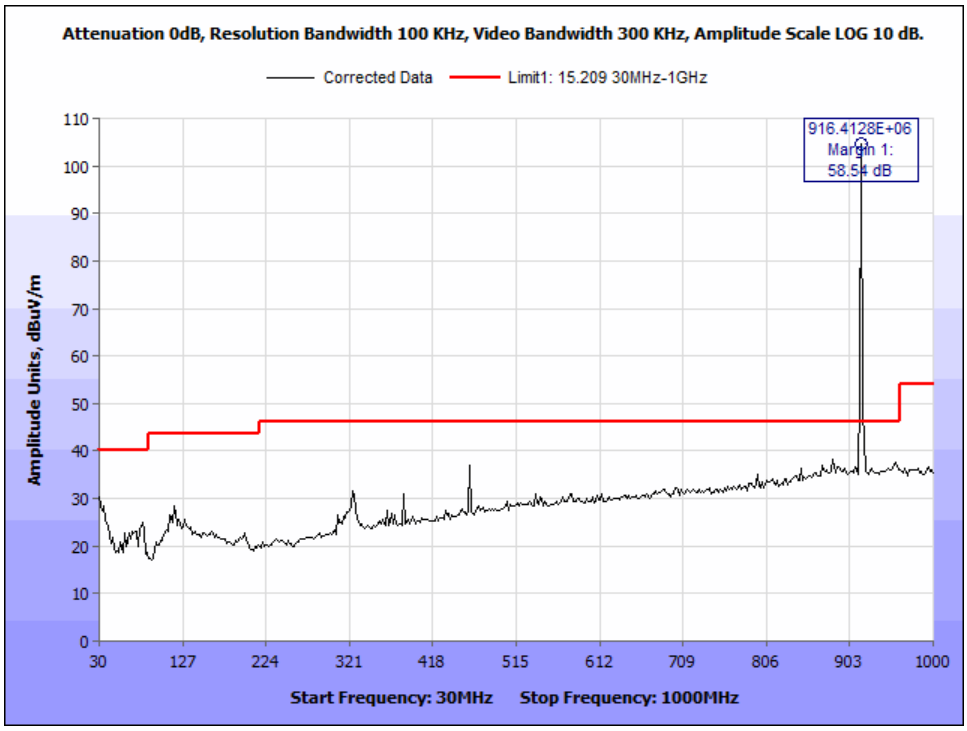

Figure 97. 15.209 FCC Dense - Mid Channel - 915.00MHz - 13dBi - 30-1000MHz.

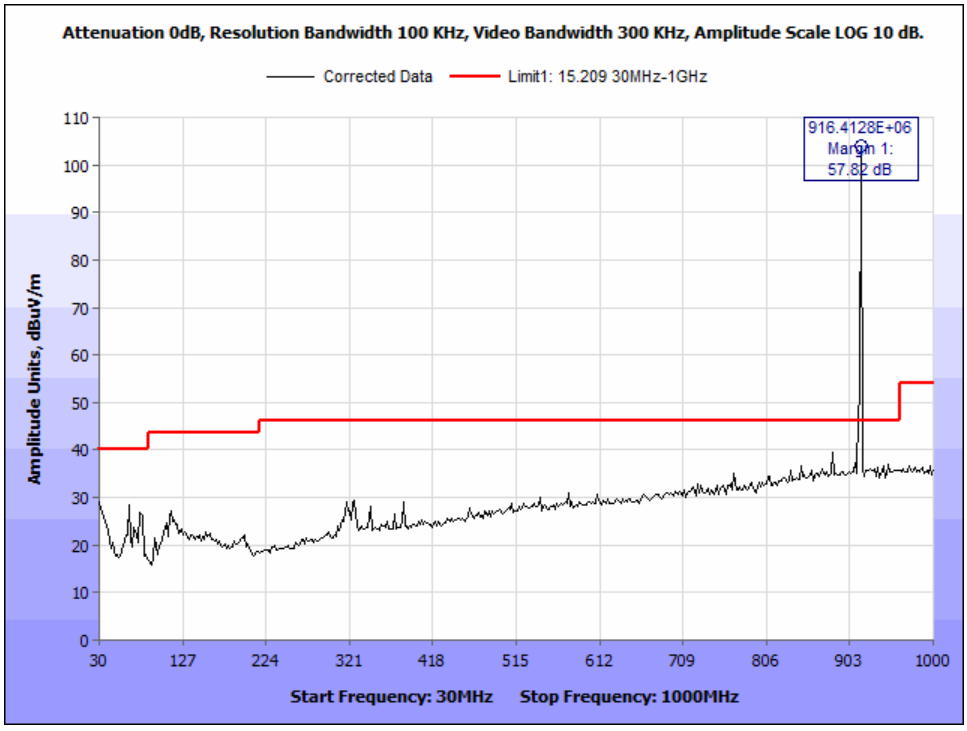

Figure 98. 15.209 FCC Dense - Mid Channel - 915.00MHz - 15dBi - 30-1000MHz.

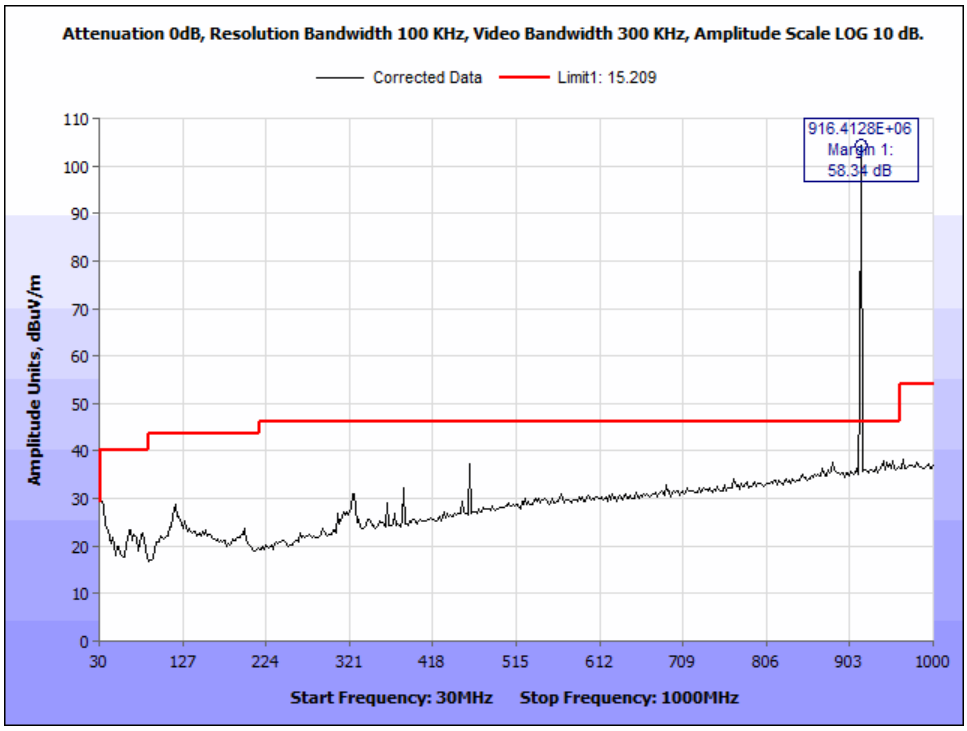

Figure 99. 15.209 FCC Dense - Mid Channel - 915.00MHz - 9.5dBi - 30-1000MHz.

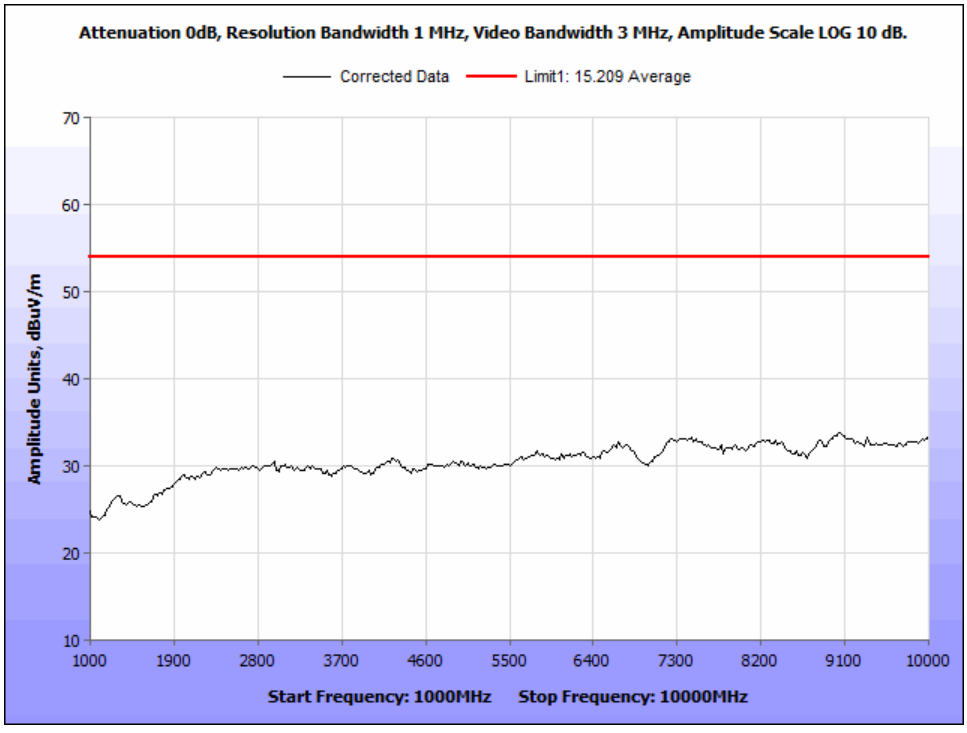

Figure 100. 15.209 FCC_A - AVG Radiated Spurious Emissions - Hopping - 13dBi - 1-10GHz.

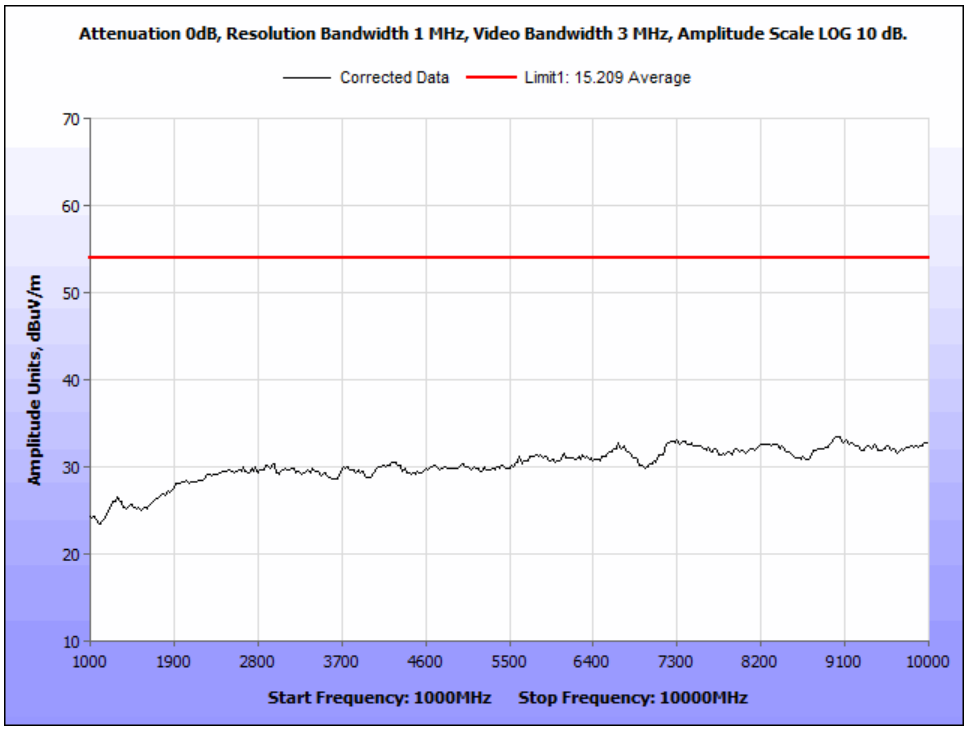

Figure 101. 15.209 FCC_A - AVG Radiated Spurious Emissions - Hopping - 15dBi - 1-10GHz.

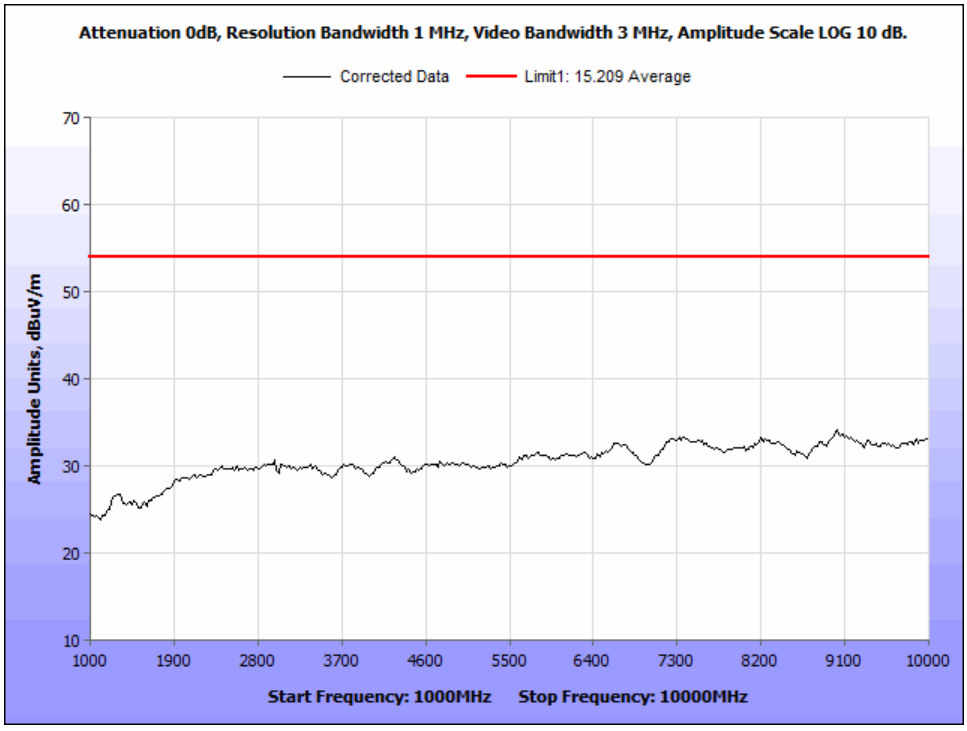

Figure 102. 15.209 FCC_A - AVG Radiated Spurious Emissions - Hopping - 9.5dBi - 1-10GHz.

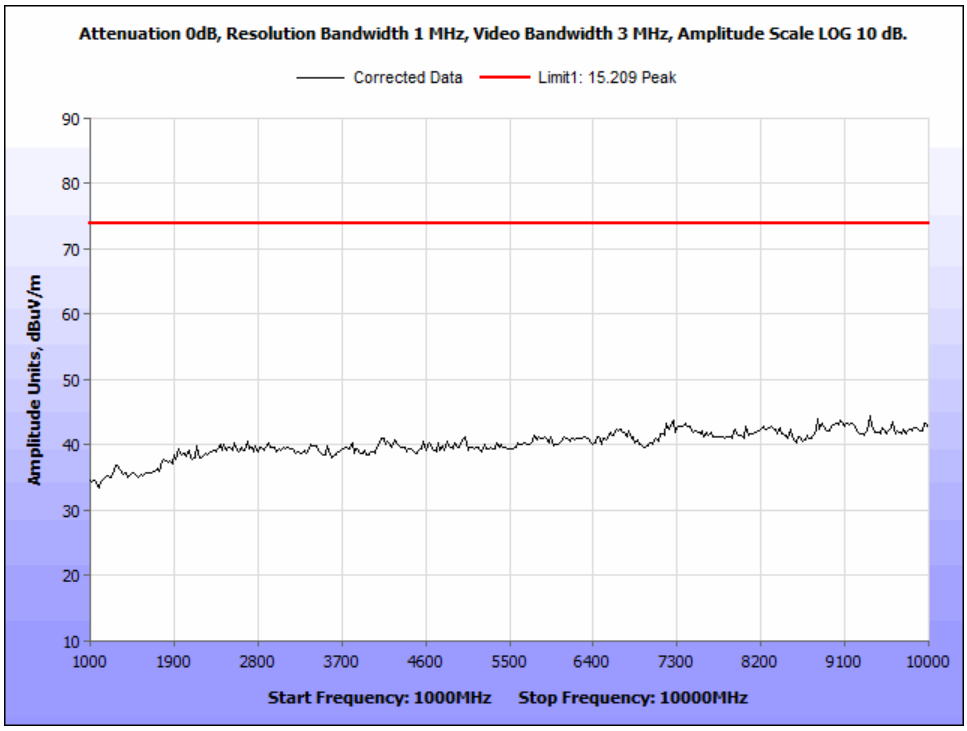

Figure 103. 15.209 FCC_A - PEAK Radiated Spurious Emissions - Hopping - 13dBi - 1-10GHz.

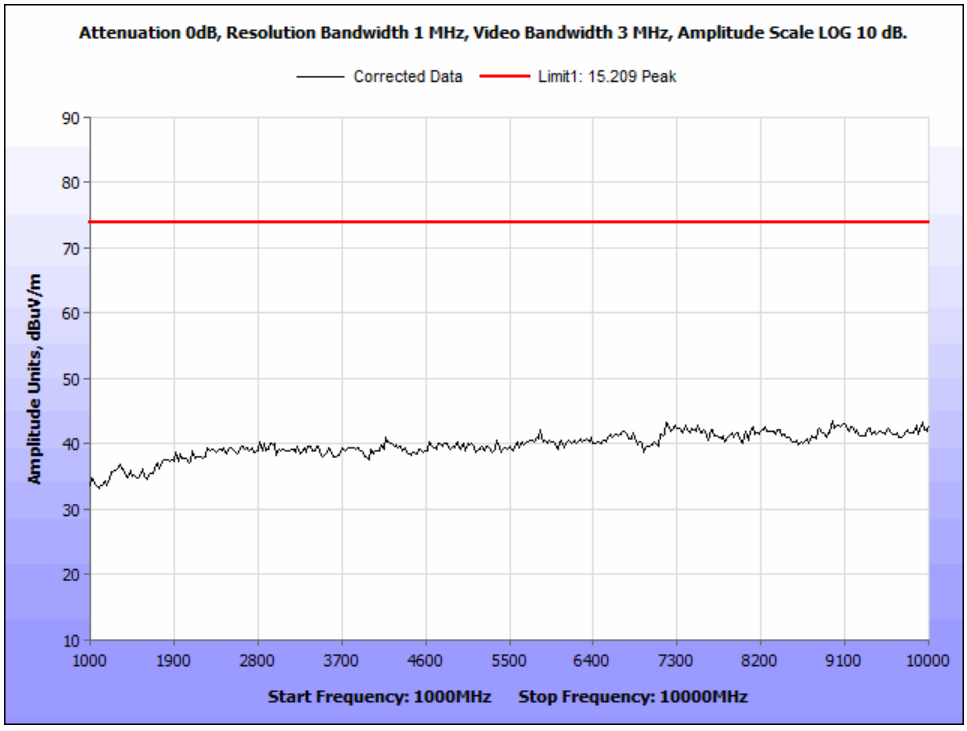

Figure 104. 15.209 FCC_A - PEAK Radiated Spurious Emissions - Hopping - 15dBi - 1-10GHz.

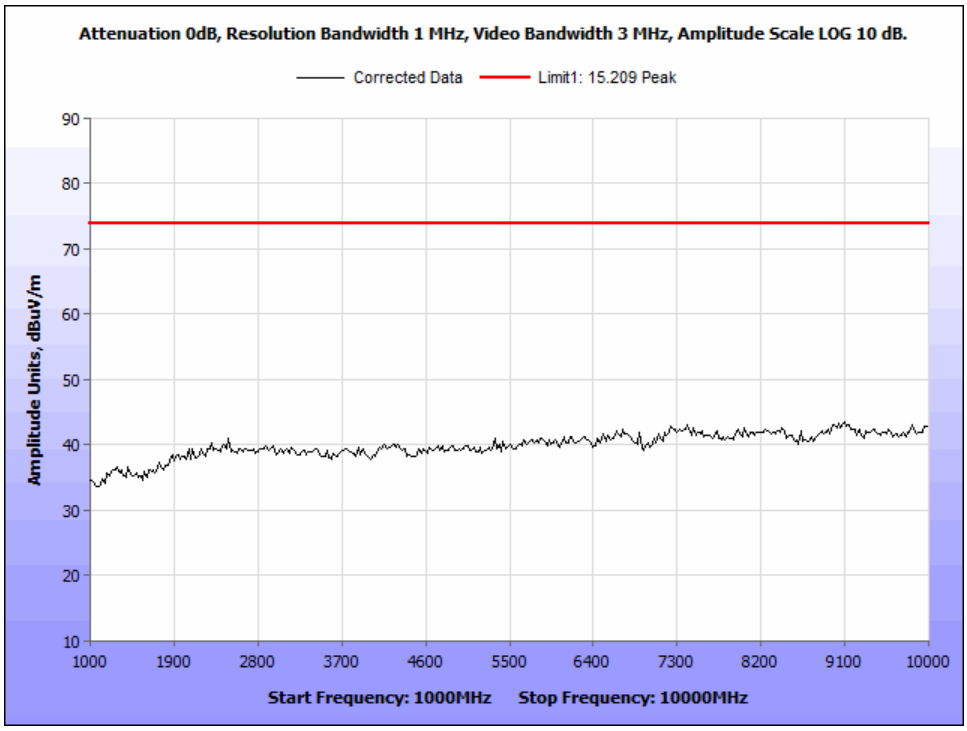

Figure 105. 15.209 FCC_A - PEAK Radiated Spurious Emissions - Hopping - 9.5dBi - 1-10GHz.

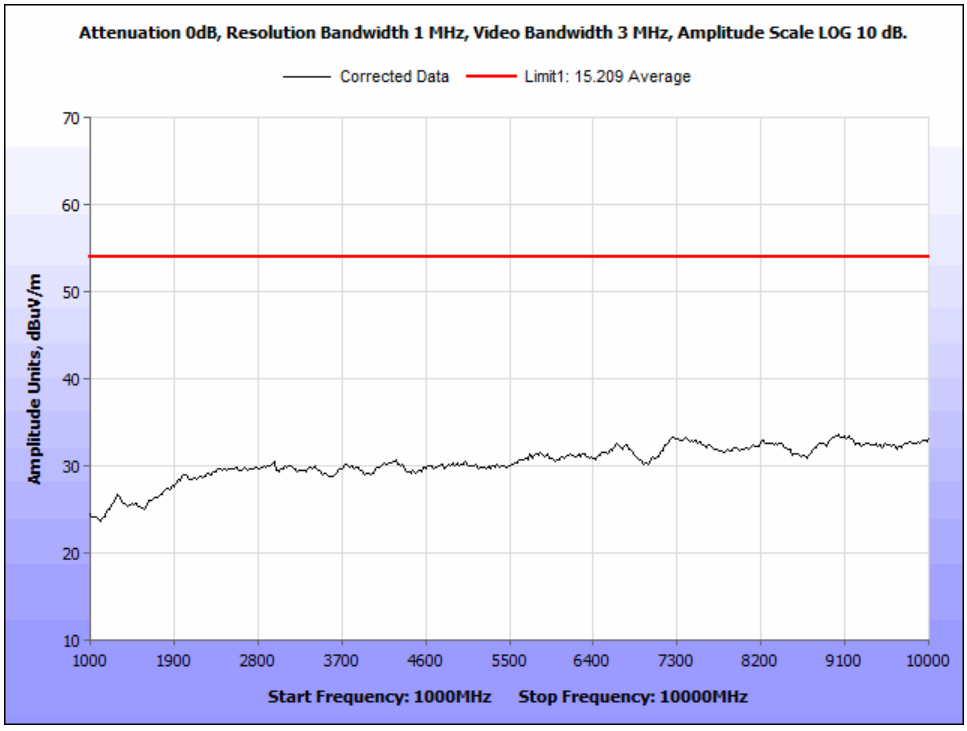

Figure 106. 15.209 FCC_B - AVG Radiated Spurious Emissions - Hopping - 13dBi - 1-10GHz.

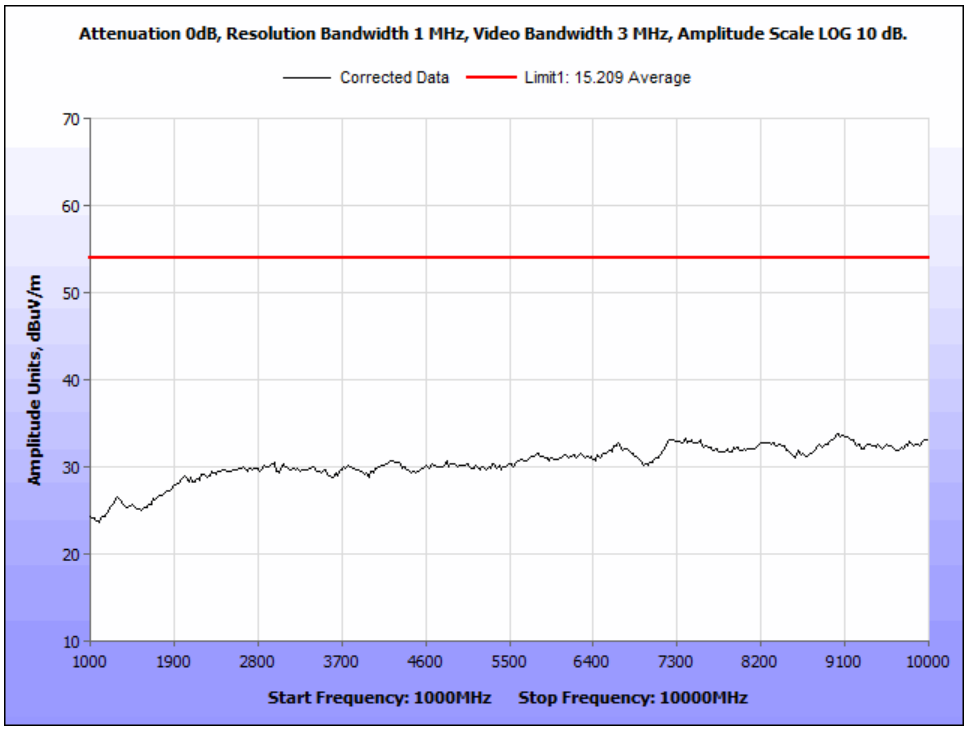

Figure 107. 15.209 FCC_B - AVG Radiated Spurious Emissions - Hopping - 15dBi - 1-10GHz.

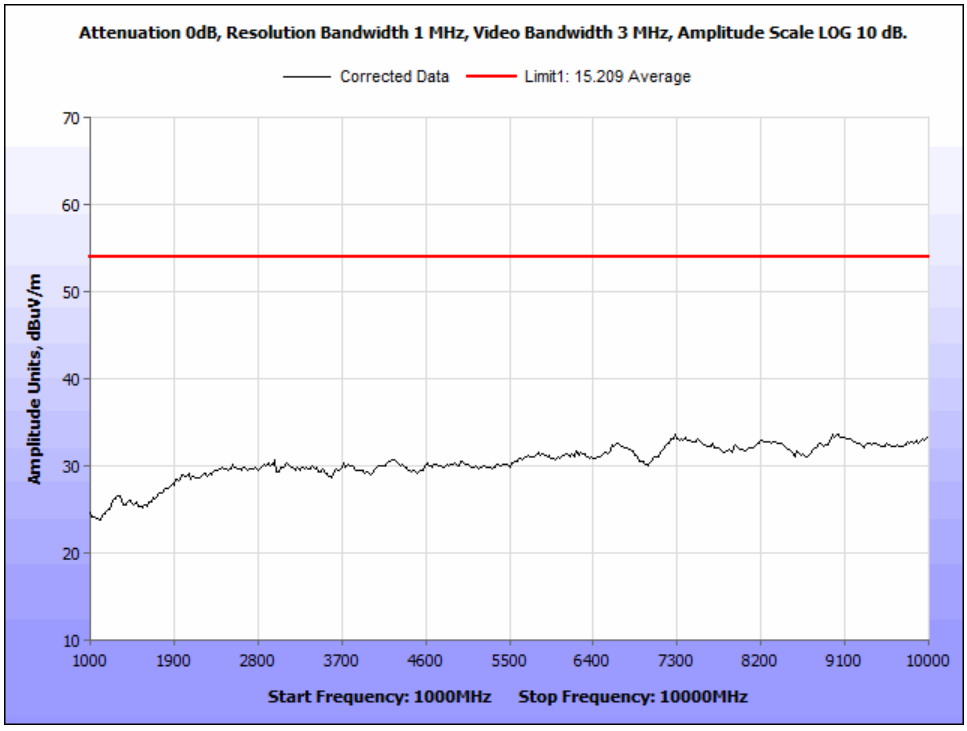

Figure 108. 15.209 FCC_B - AVG Radiated Spurious Emissions - Hopping - 9.5dBi - 1-10GHz.

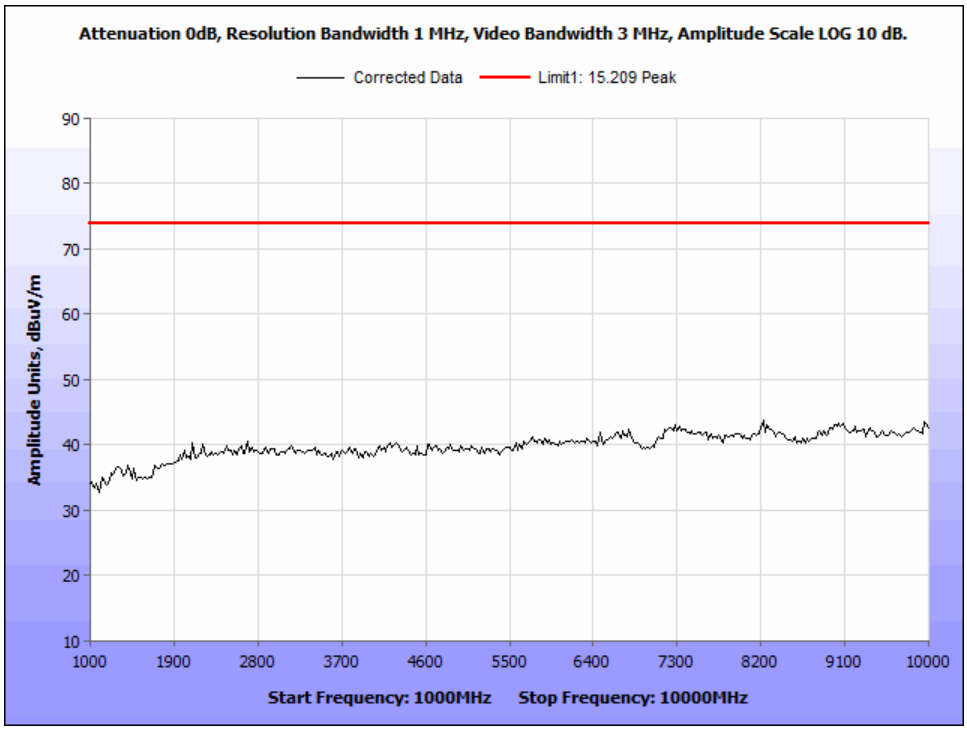

Figure 109. 15.209 FCC_B - PEAK Radiated Spurious Emissions - Hopping - 13dBi - 1-10GHz.

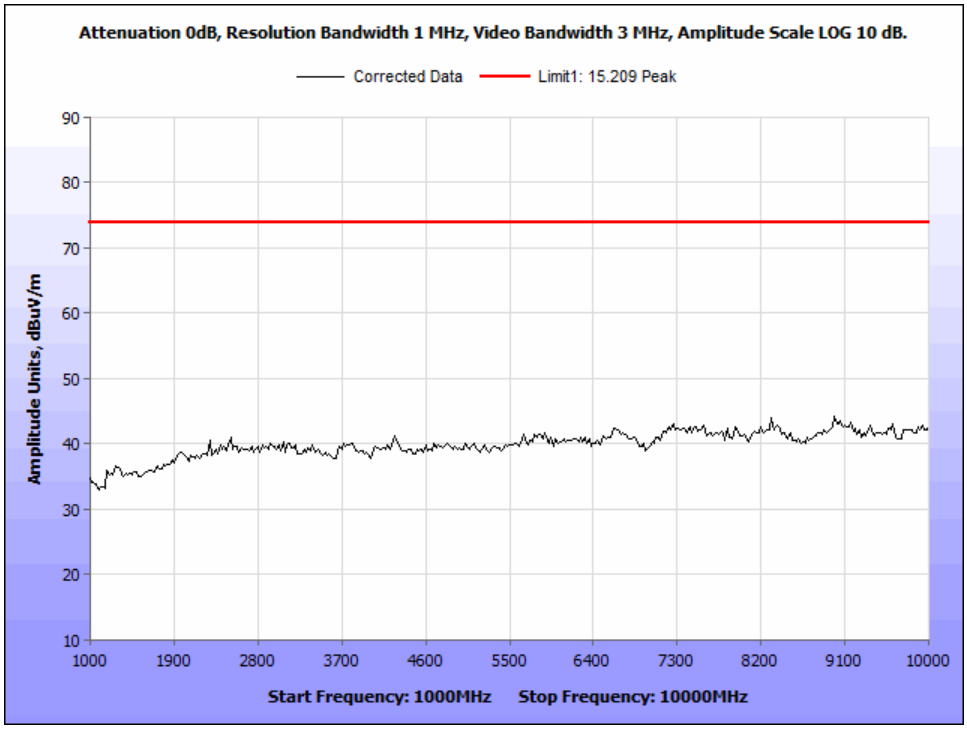

Figure 110. 15.209 FCC_B - PEAK Radiated Spurious Emissions - Hopping - 15dBi - 1-10GHz.

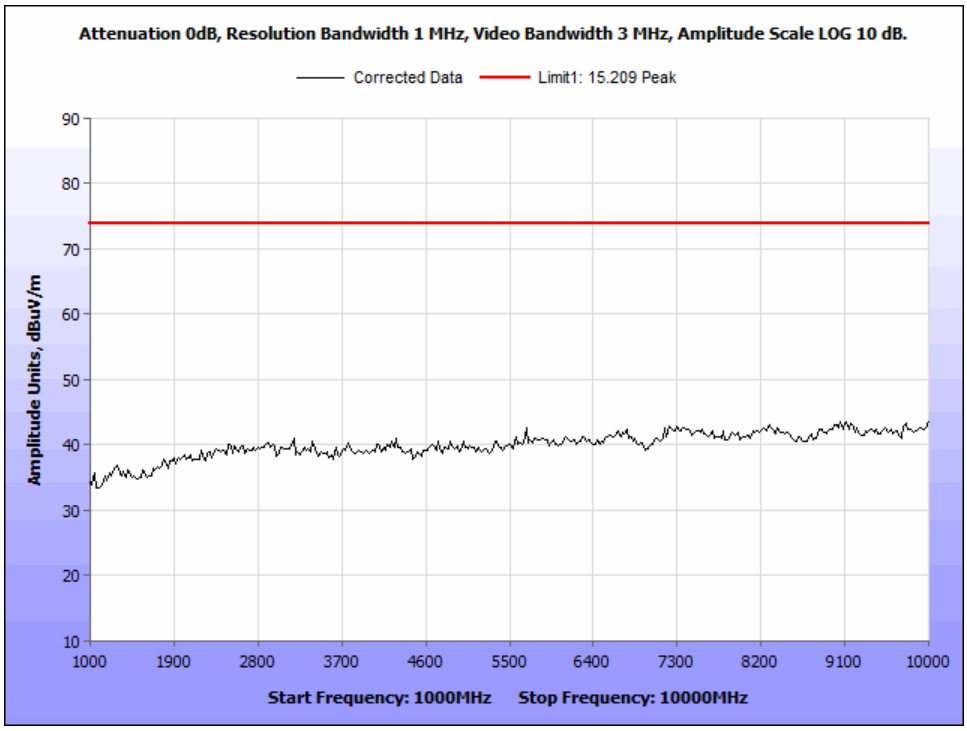

Figure 111. 15.209 FCC_B - PEAK Radiated Spurious Emissions - Hopping - 9.5dBi - 1-10GHz.

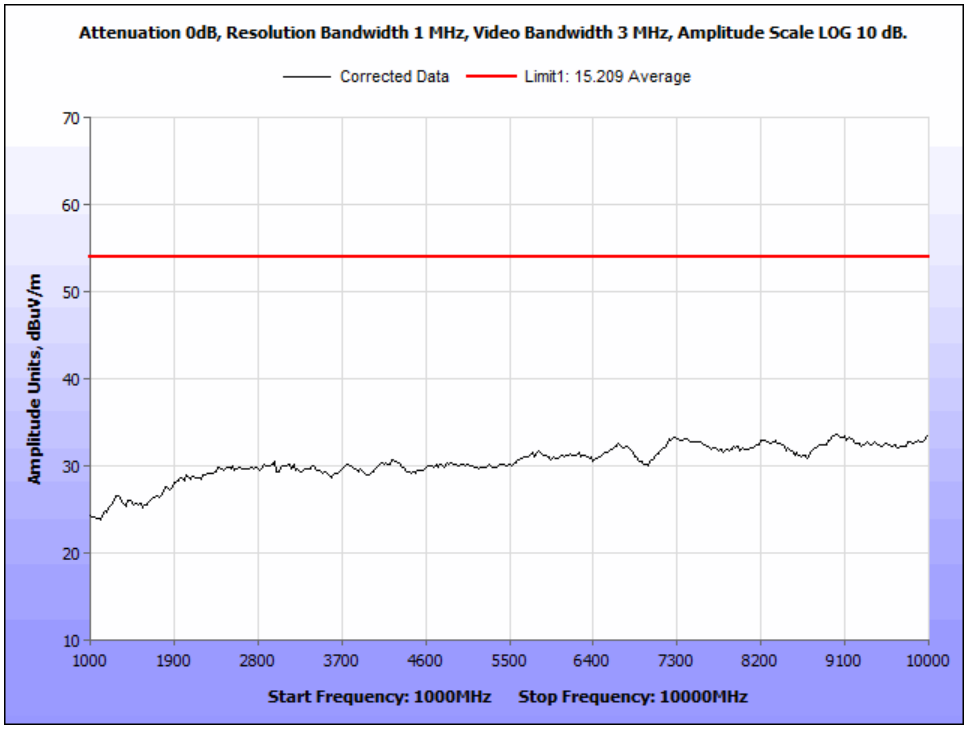

Figure 112. 15.209 FCC_C - AVG Radiated Spurious Emissions - Hopping - 13dBi - 1-10GHz.

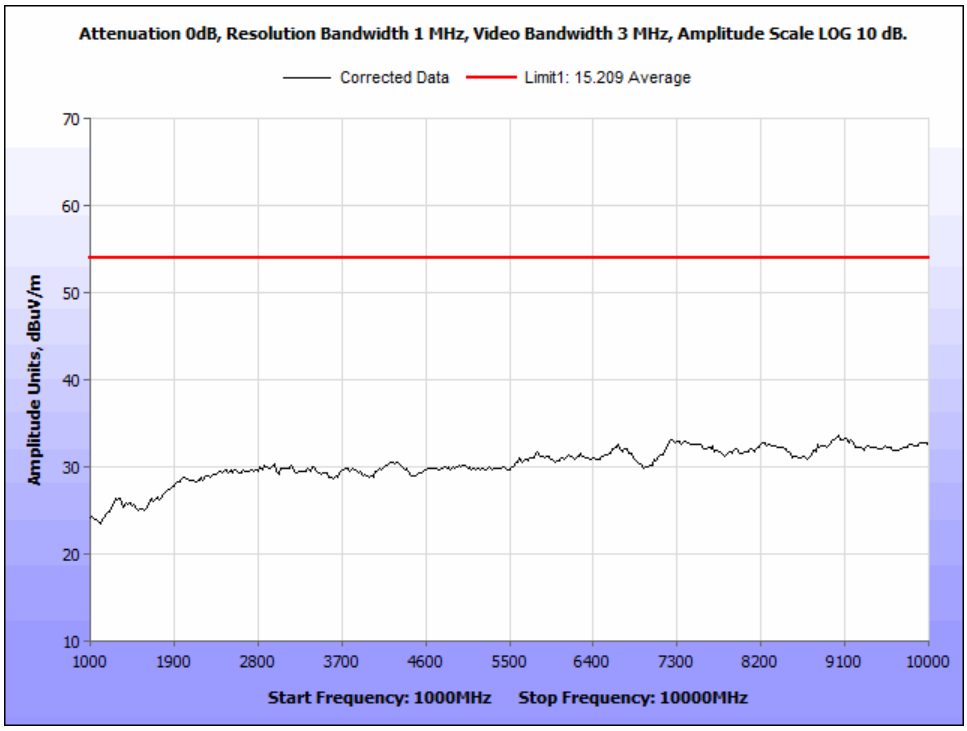

Figure 113. 15.209 FCC_C - AVG Radiated Spurious Emissions - Hopping - 15dBi - 1-10GHz.

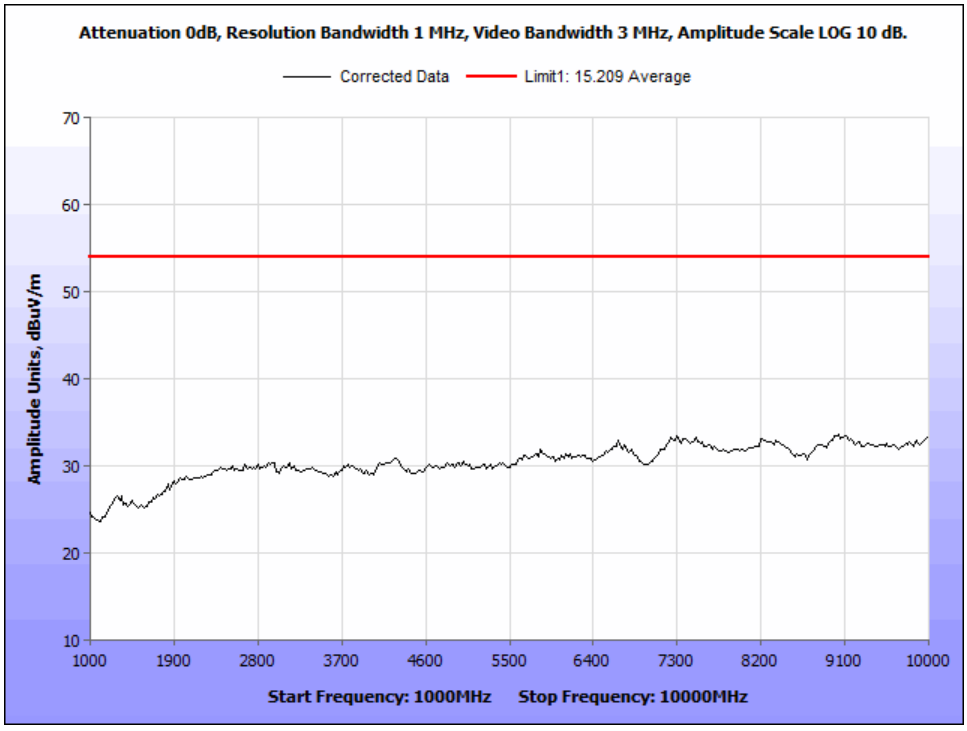

Figure 114. 15.209 FCC_C - AVG Radiated Spurious Emissions - Hopping - 9.5dBi - 1-10GHz.

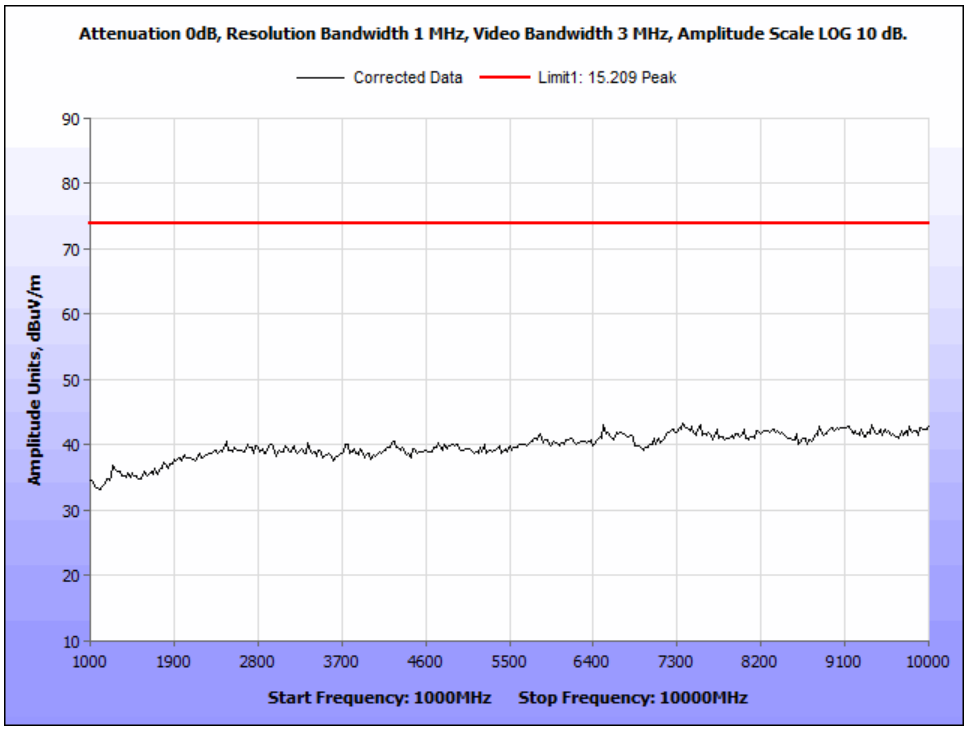

Figure 115. 15.209 FCC_C - PEAK Radiated Spurious Emissions - Hopping - 13dBi - 1-10GHz.

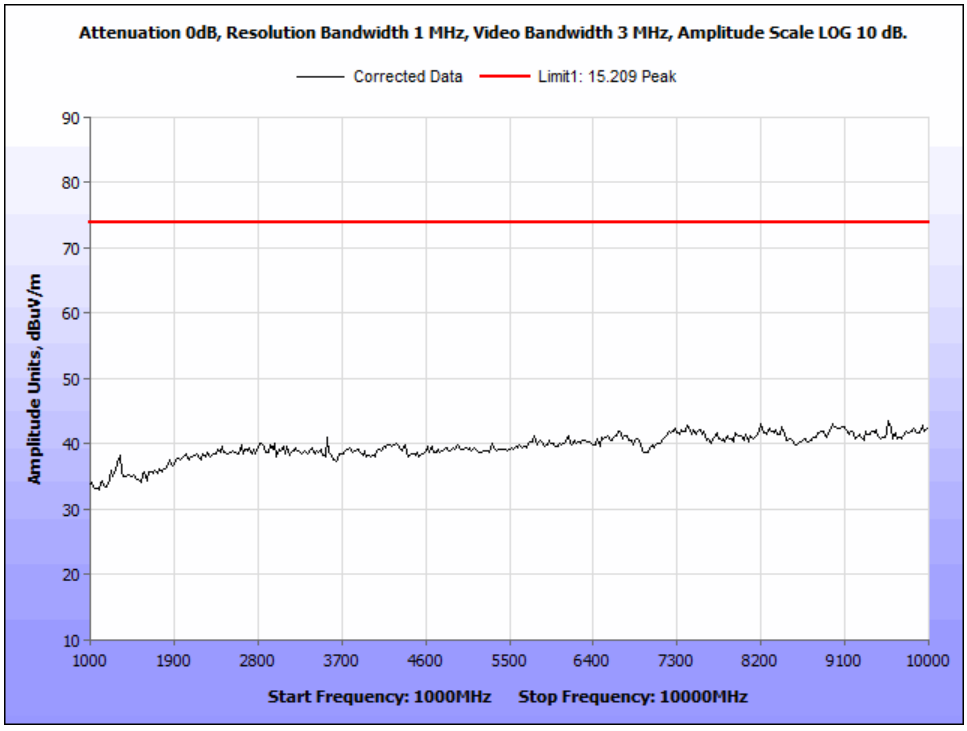

Figure 116. 15.209 FCC_C - PEAK Radiated Spurious Emissions - Hopping - 15dBi - 1-10GHz.

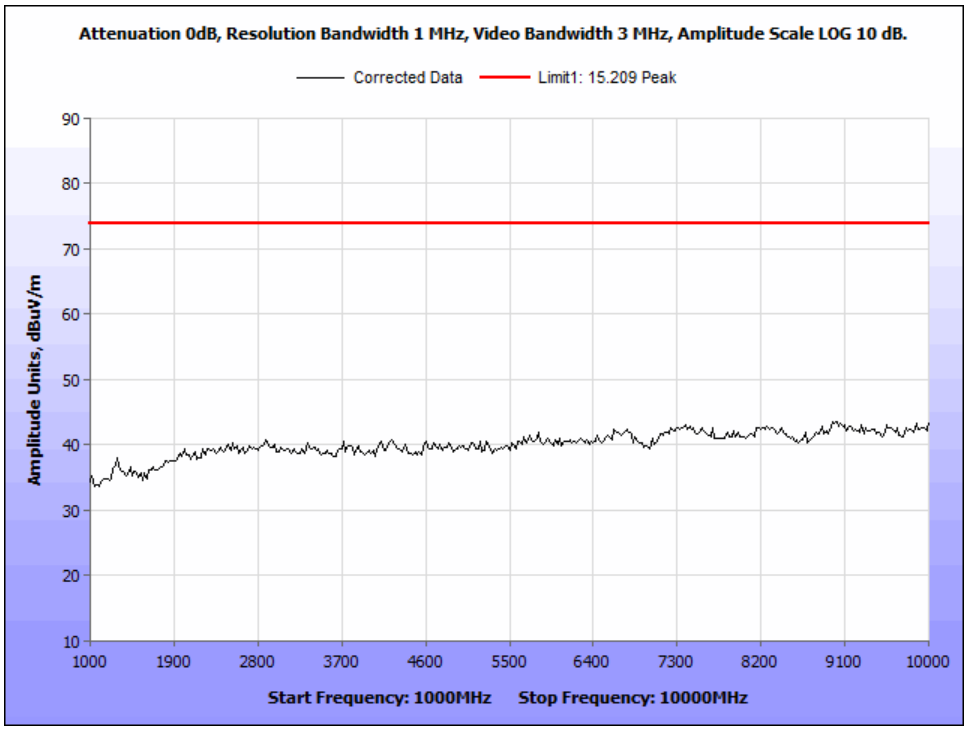

Figure 117. 15.209 FCC_C - PEAK Radiated Spurious Emissions - Hopping - 9.5dBi - 1-10GHz.

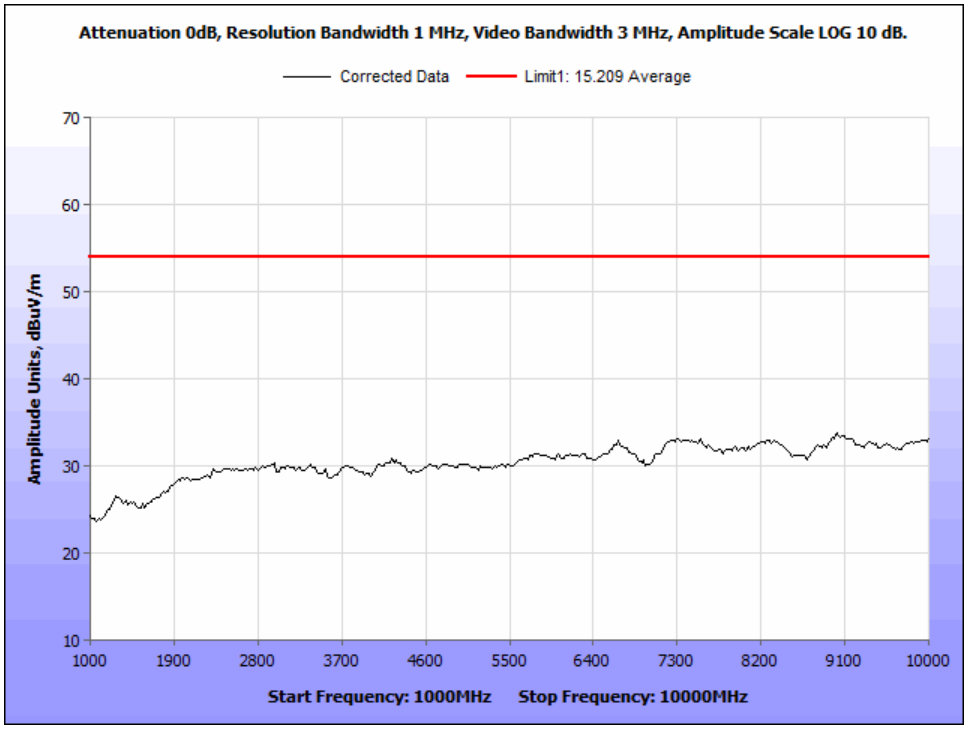

Figure 118. 15.209 FCC_Dense - AVG Radiated Spurious Emissions - Hopping - 13dBi - 1-10GHz.

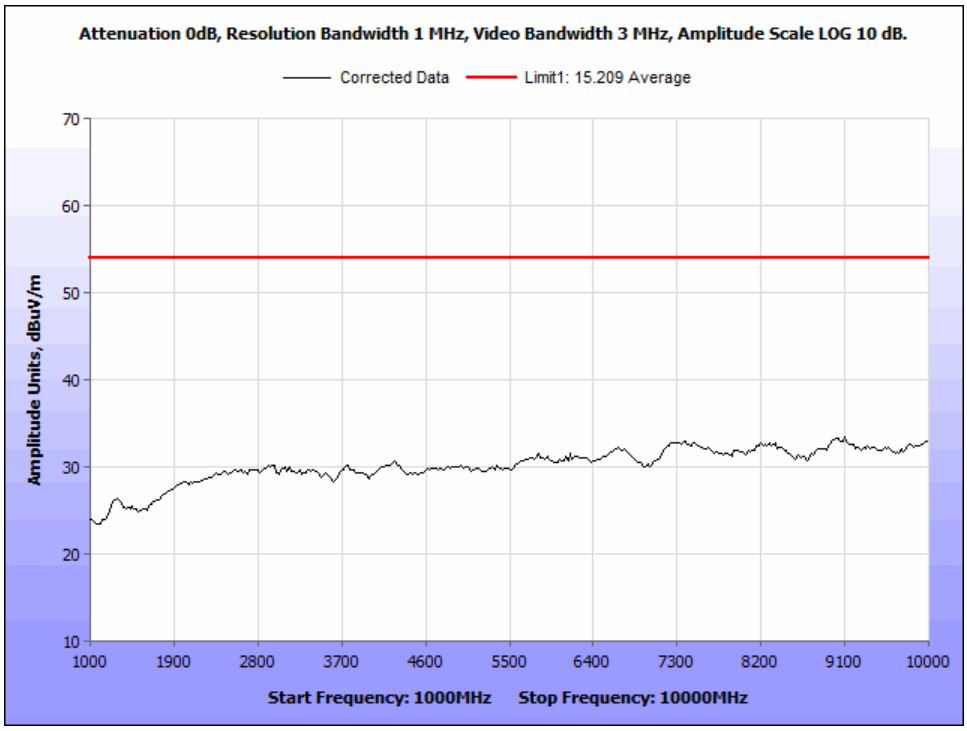

Figure 119. 15.209 FCC_Dense - AVG Radiated Spurious Emissions - Hopping - 15dBi - 1-10GHz.

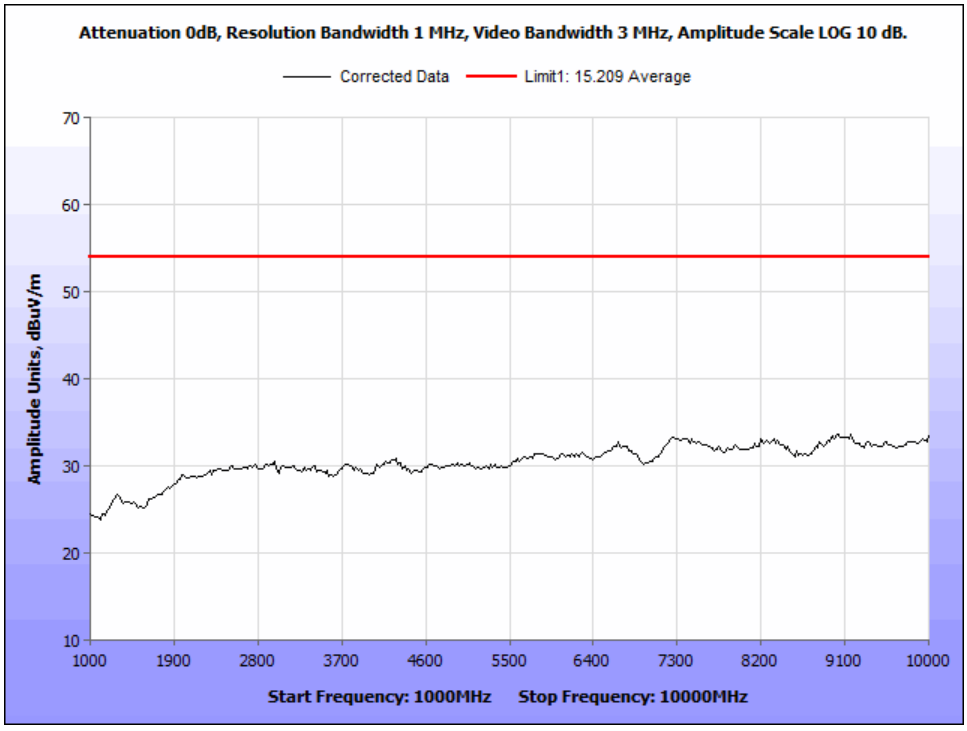

Figure 120. 15.209 FCC_Dense - AVG Radiated Spurious Emissions - Hopping - 9.5dBi - 1-10GHz.

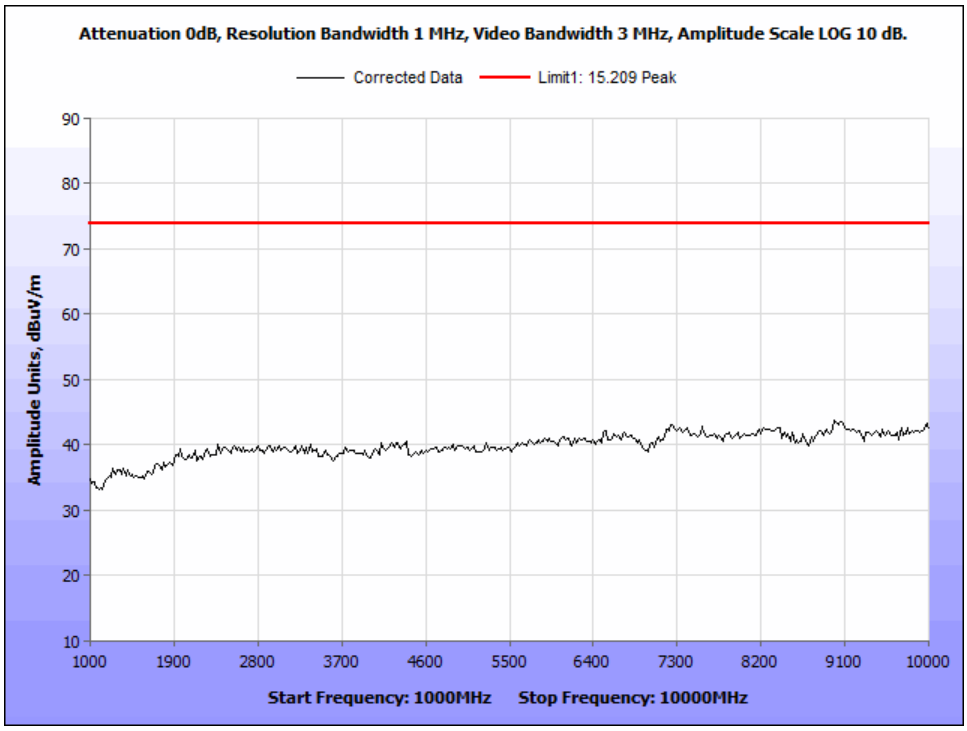

Figure 121. 15.209 FCC_Dense - PEAK Radiated Spurious Emissions - Hopping - 13dBi - 1-10GHz.

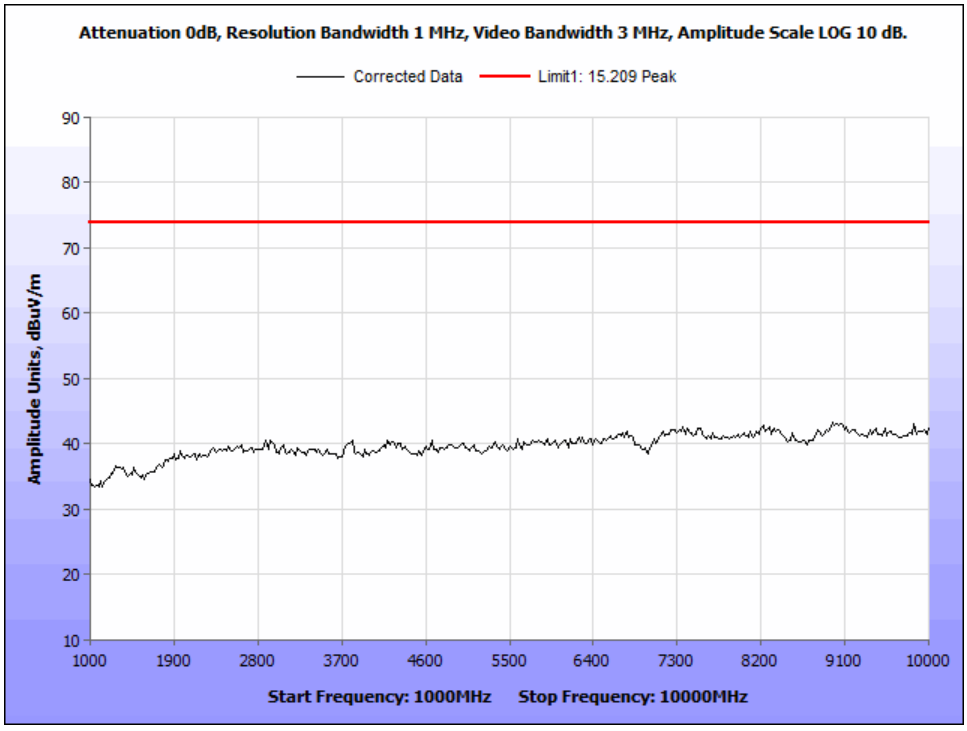

Figure 122. 15.209 FCC_Dense - PEAK Radiated Spurious Emissions - Hopping - 15dBi - 1-10GHz.

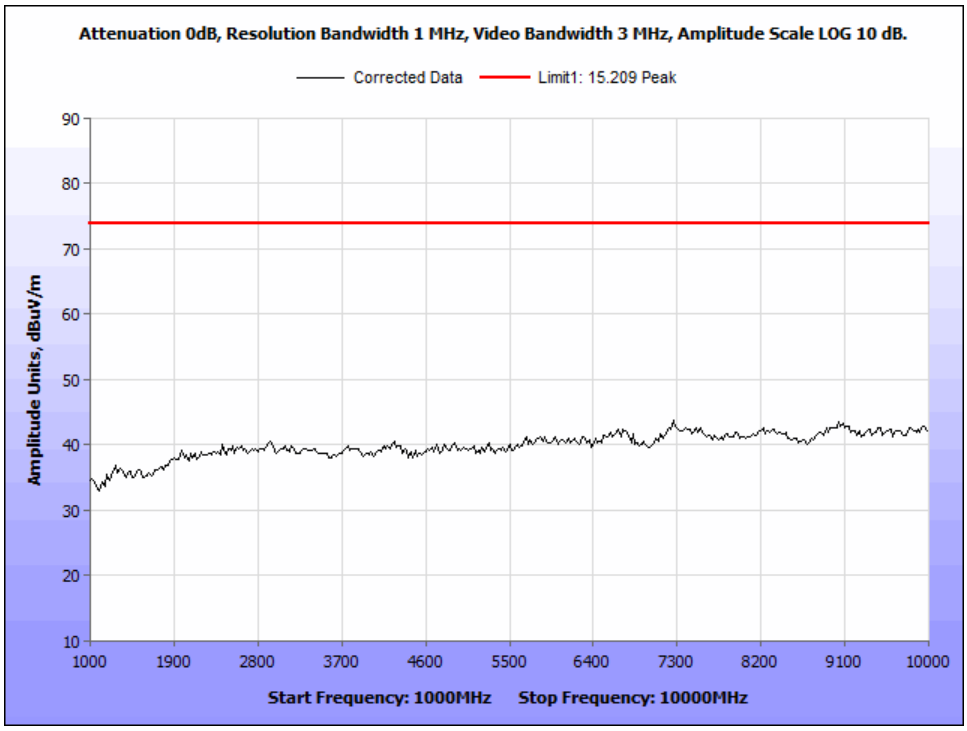

Figure 123. 15.209 FCC_Dense - PEAK Radiated Spurious Emissions - Hopping - 9.5dBi - 1-10GHz.

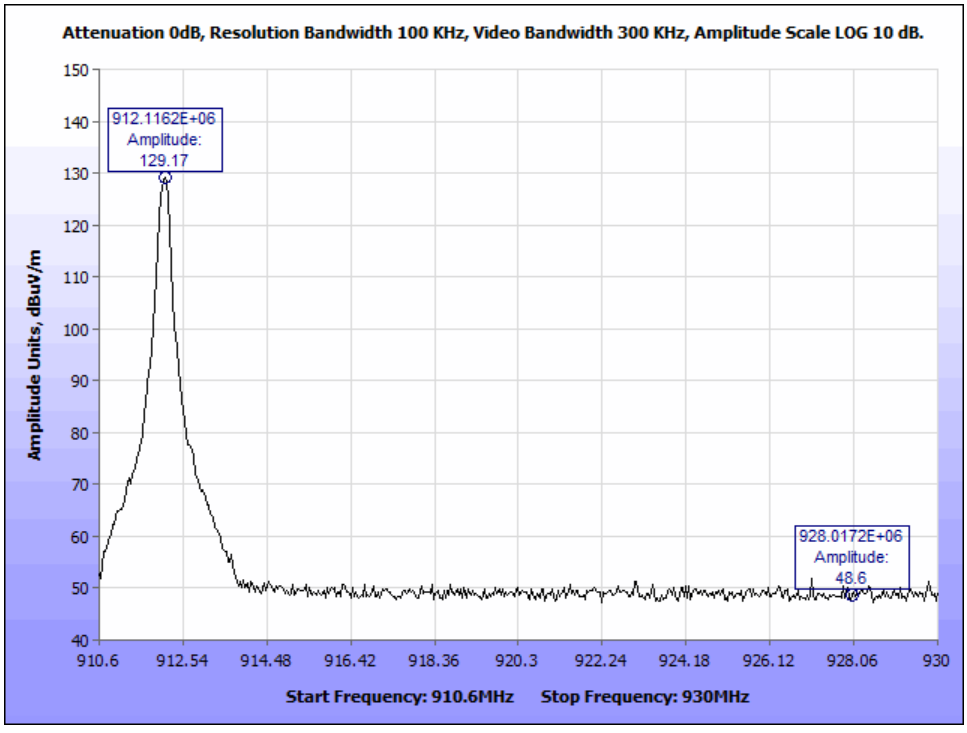

Figure 124. FCC A - High Channel - 912.1MHz - 13dBi - Radiated Band Edge

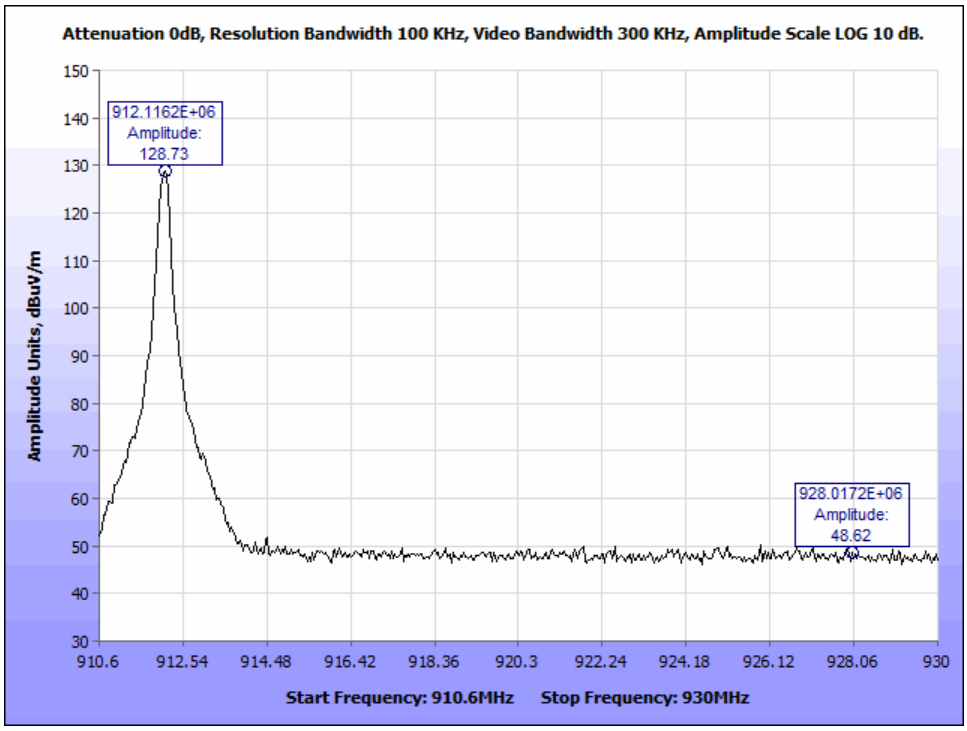

Figure 125. FCC A - High Channel - 912.1MHz - 15dBi - Radiated Band Edge

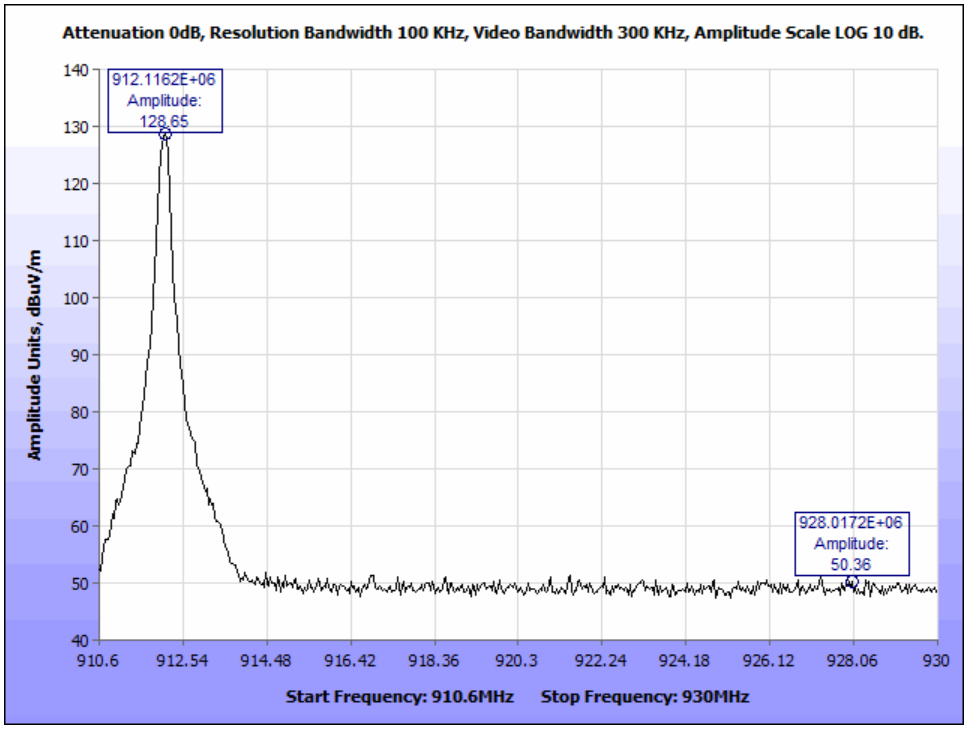

Figure 126. FCC A - High Channel - 912.1MHz - 9.5dBi - Radiated Band Edge

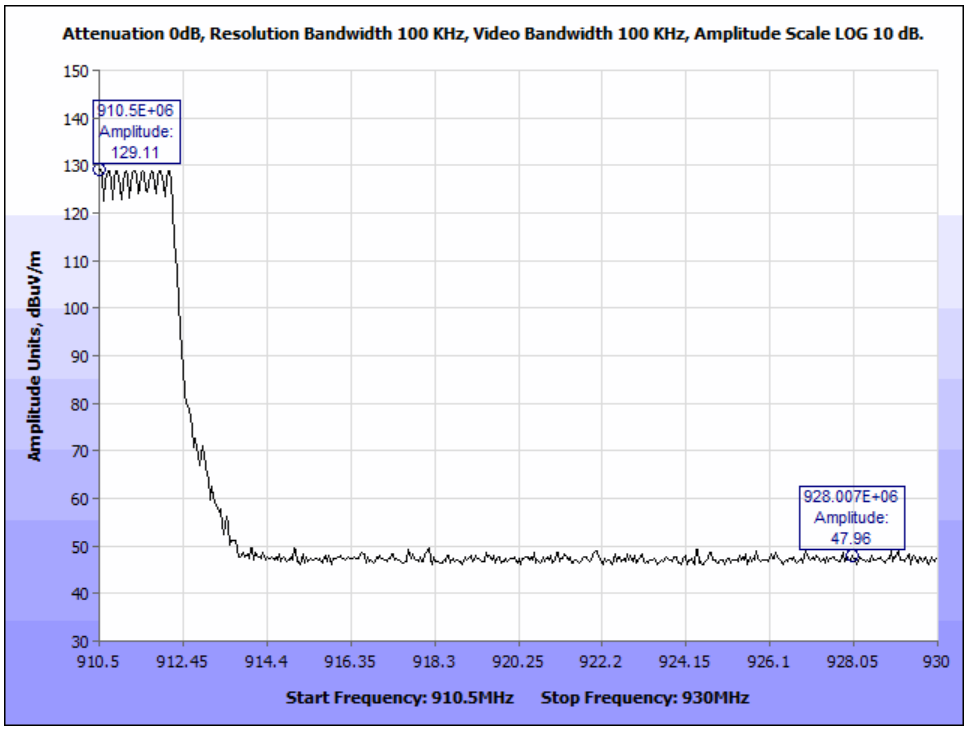

Figure 127. FCC A - Hopping - 13dBi - Radiated High Band Edge.

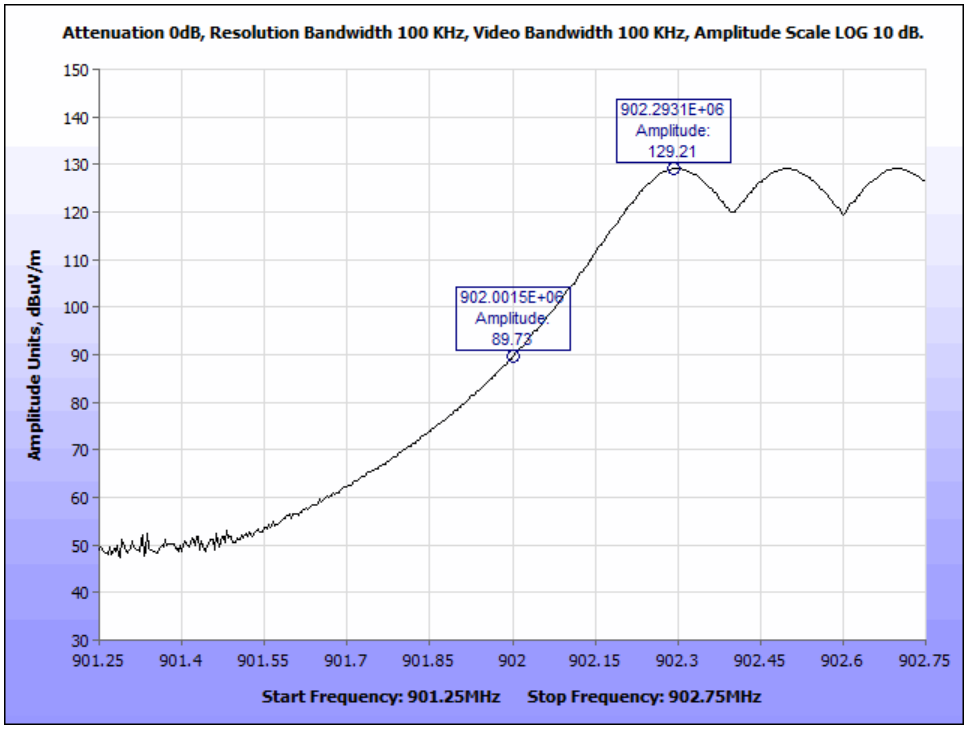

Figure 128. FCC A - Hopping - 13dBi - Radiated Low Band Edge.

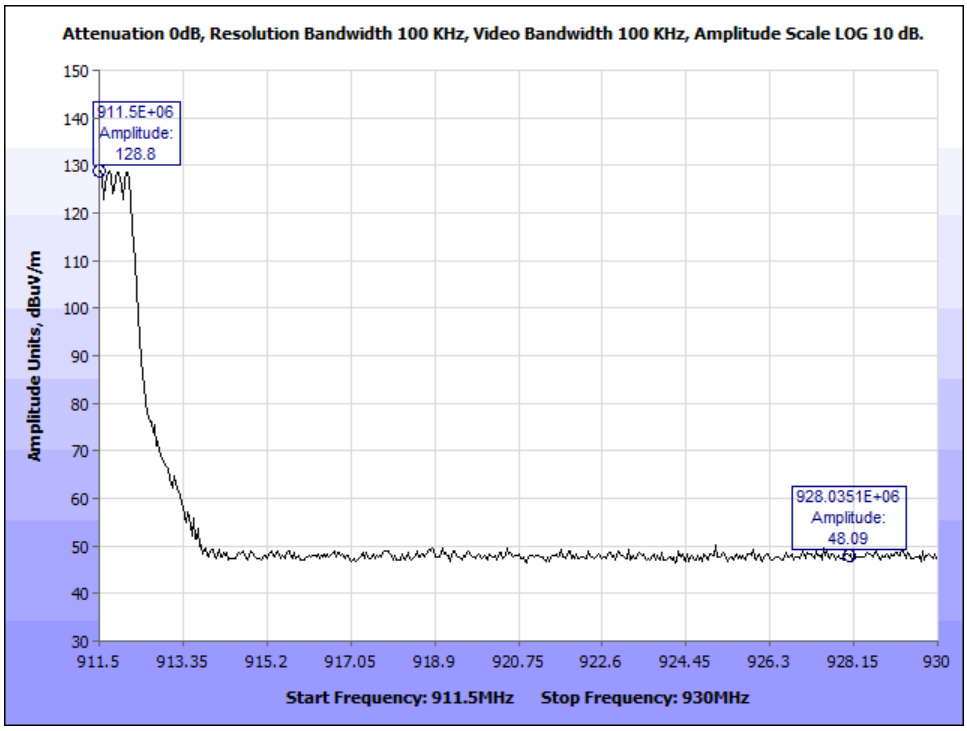

Figure 129. FCC A - Hopping - 15dBi - Radiated High Band Edge.

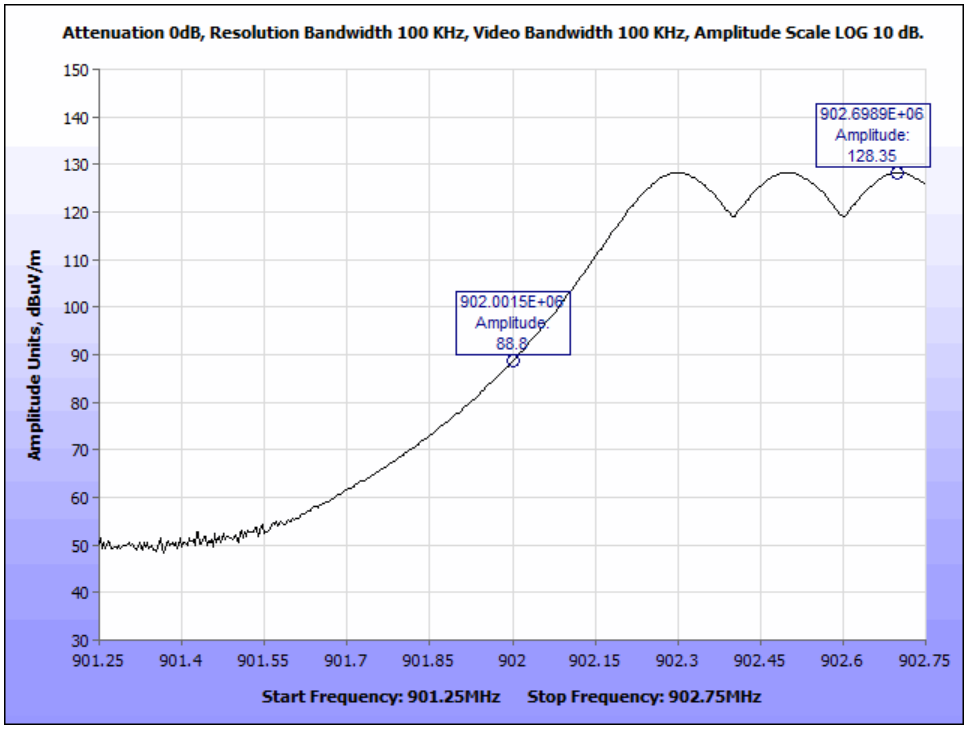

Figure 130. FCC A - Hopping - 15dBi - Radiated Low Band Edge.

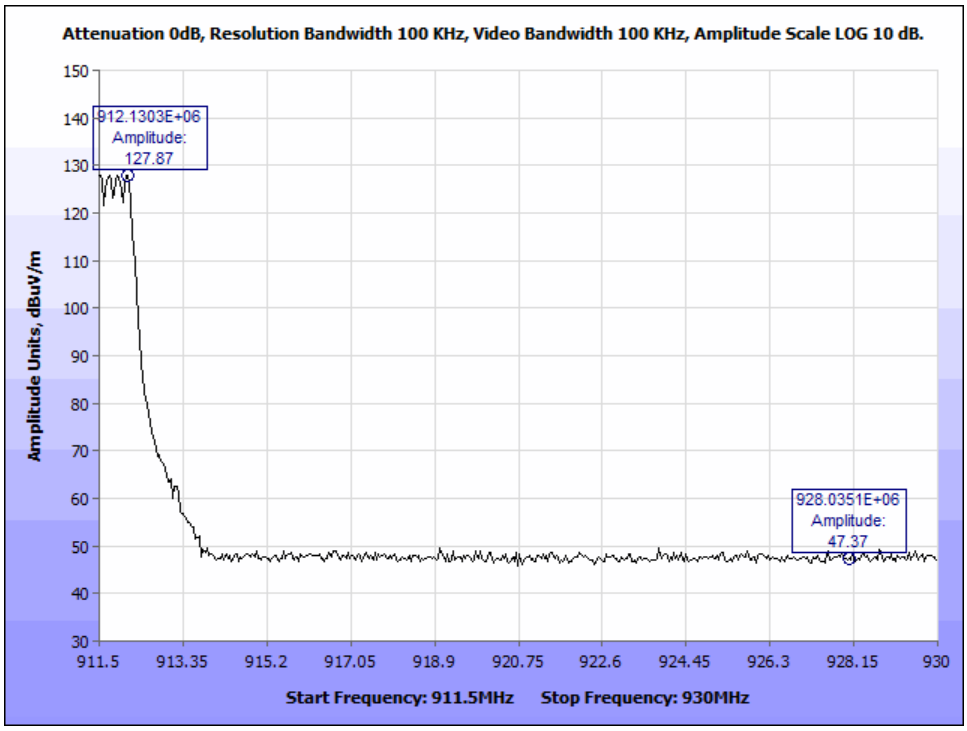

Figure 131. FCC A - Hopping - 9.5dBi - Radiated High Band Edge.

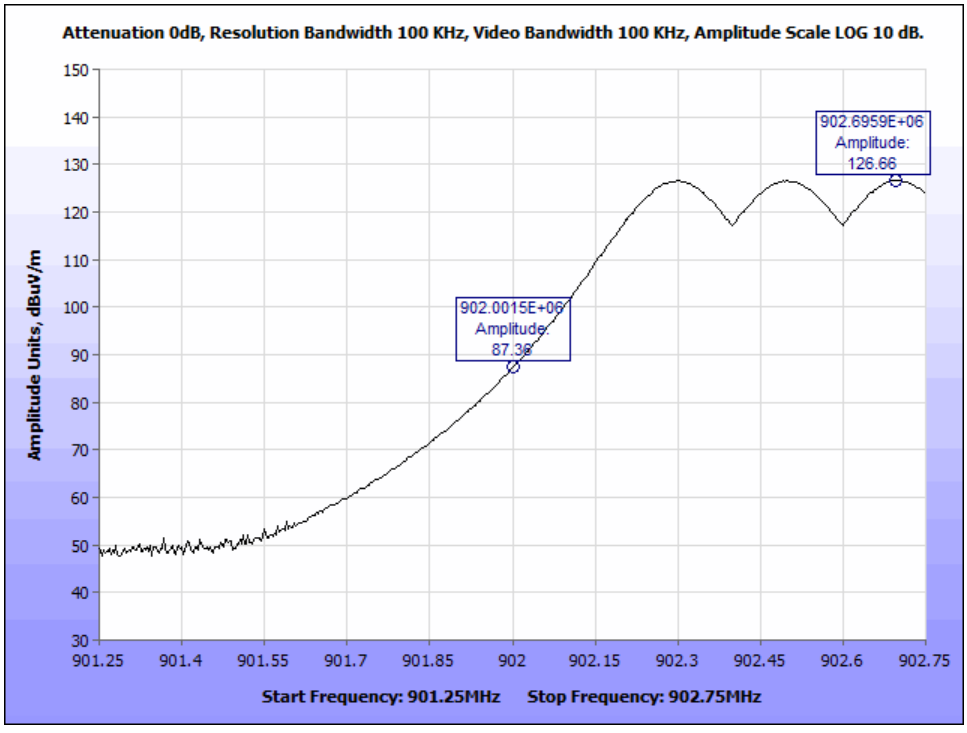

Figure 132. FCC A - Hopping - 9.5dBi - Radiated Low Band Edge.

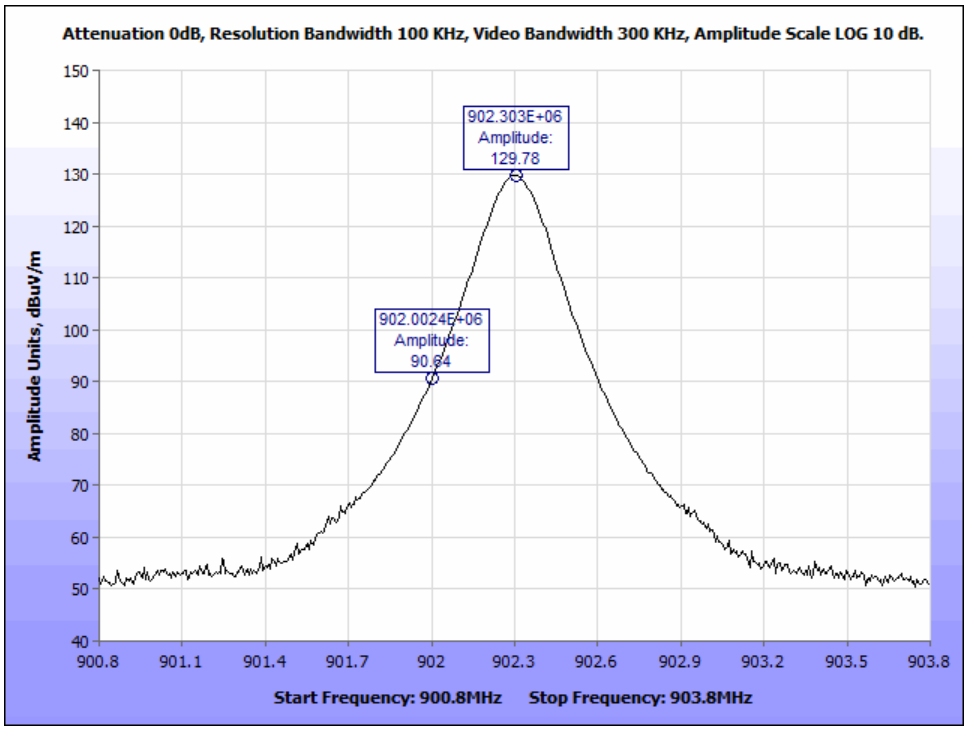

Figure 133. FCC A - Low Channel - 902.3MHz - 13dBi - Radiated Band Edge

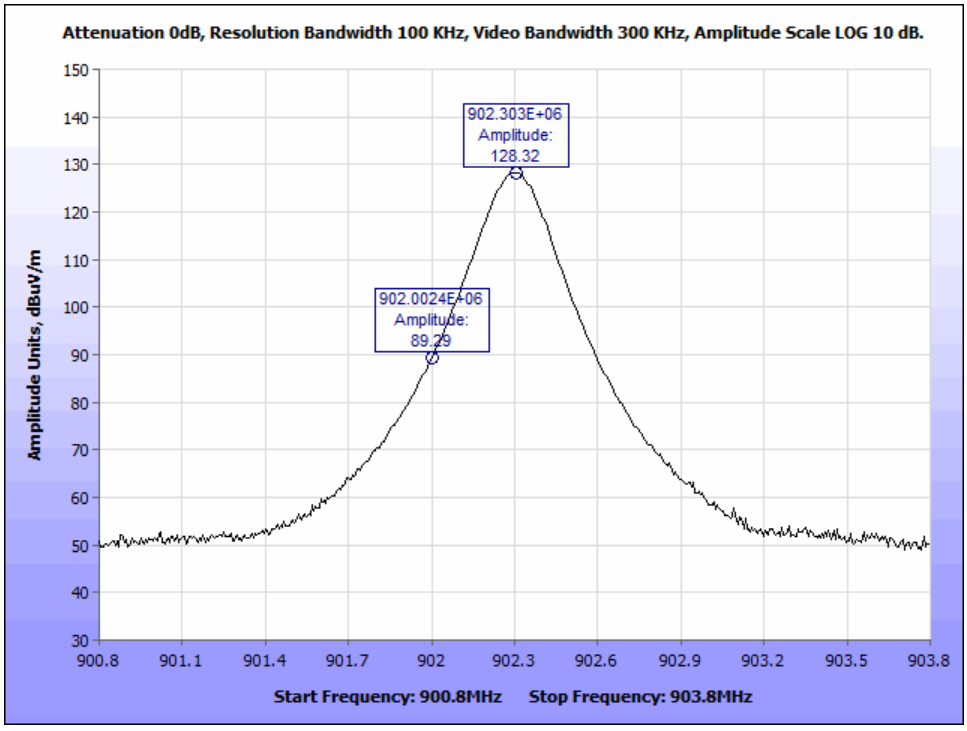

Figure 134. FCC A - Low Channel - 902.3MHz - 15dBi - Radiated Band Edge

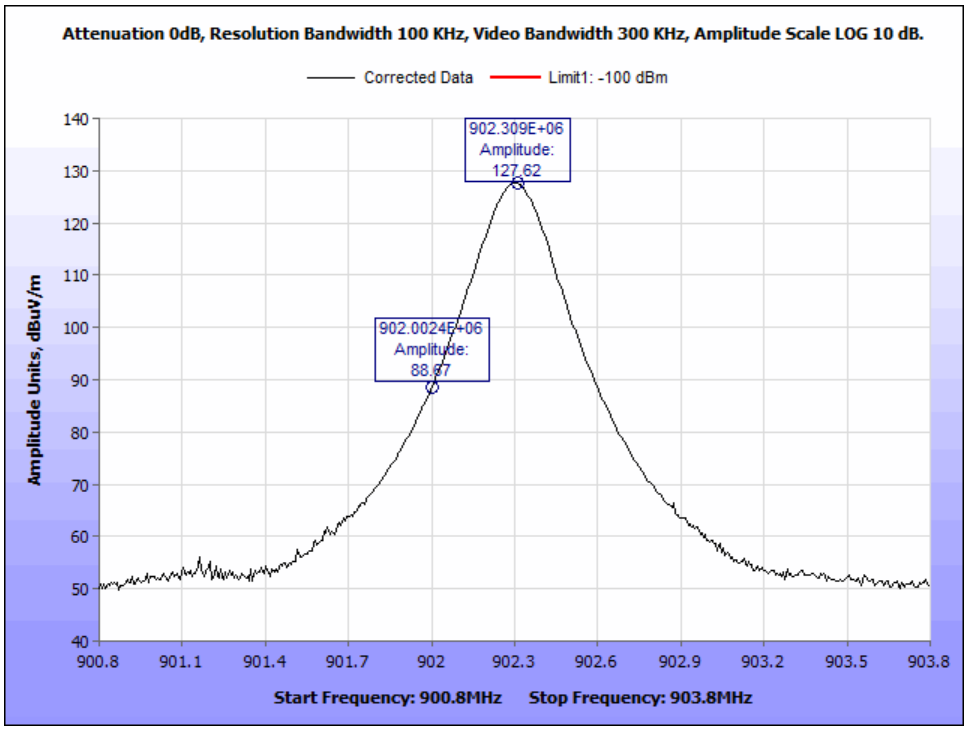

Figure 135. FCC A - Low Channel - 902.3MHz - 9.5dBi - Radiated Band Edge

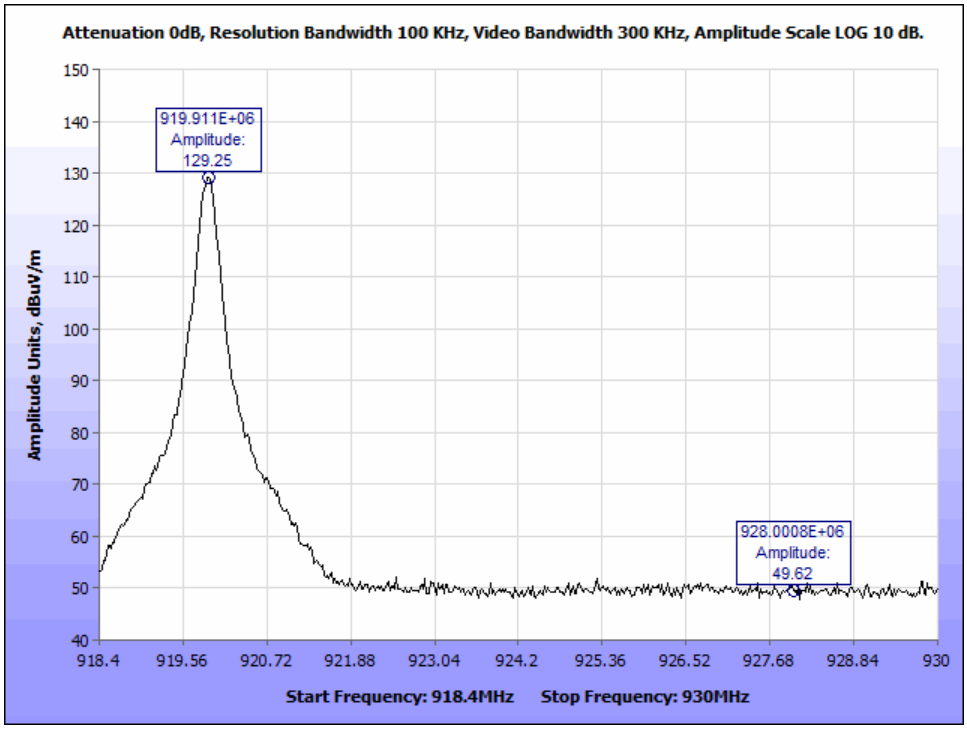

Figure 136. FCC B - High Channel - 919.9MHz - 13dBi - Radiated Band Edge

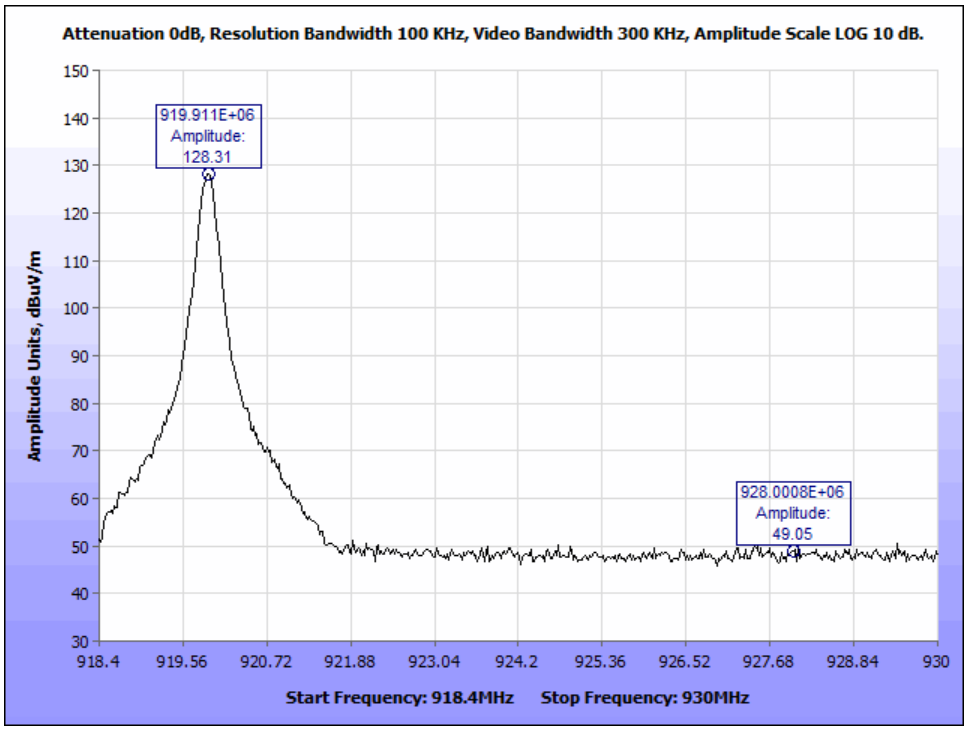

Figure 137. FCC B - High Channel - 919.9MHz - 15dBi - Radiated Band Edge

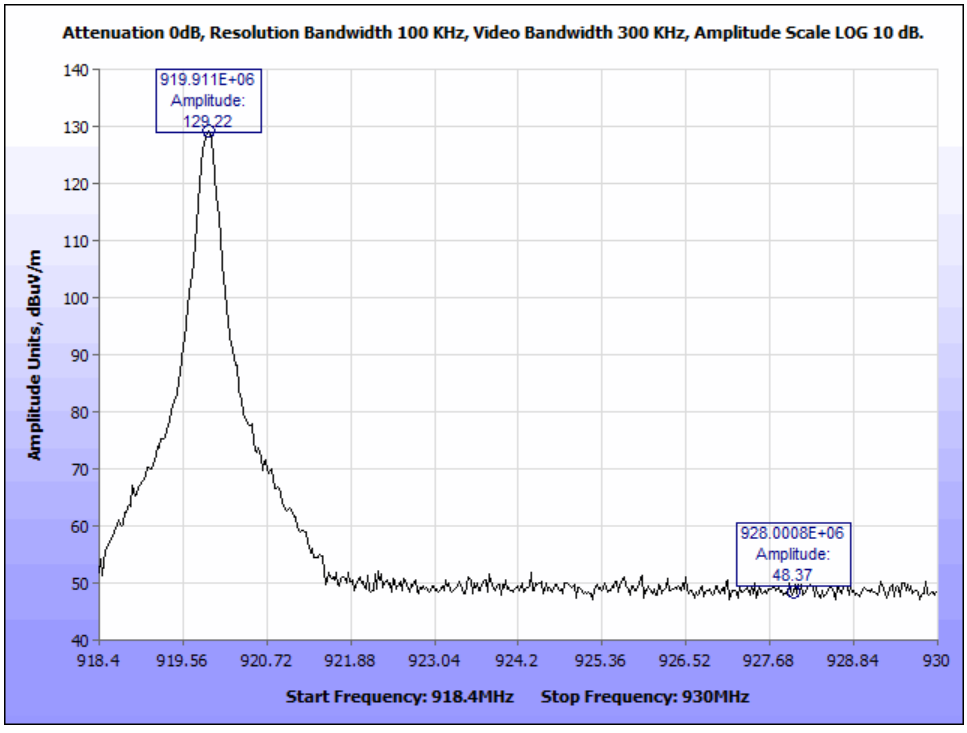

Figure 138. FCC B - High Channel - 919.9MHz - 9.5dBi - Radiated Band Edge

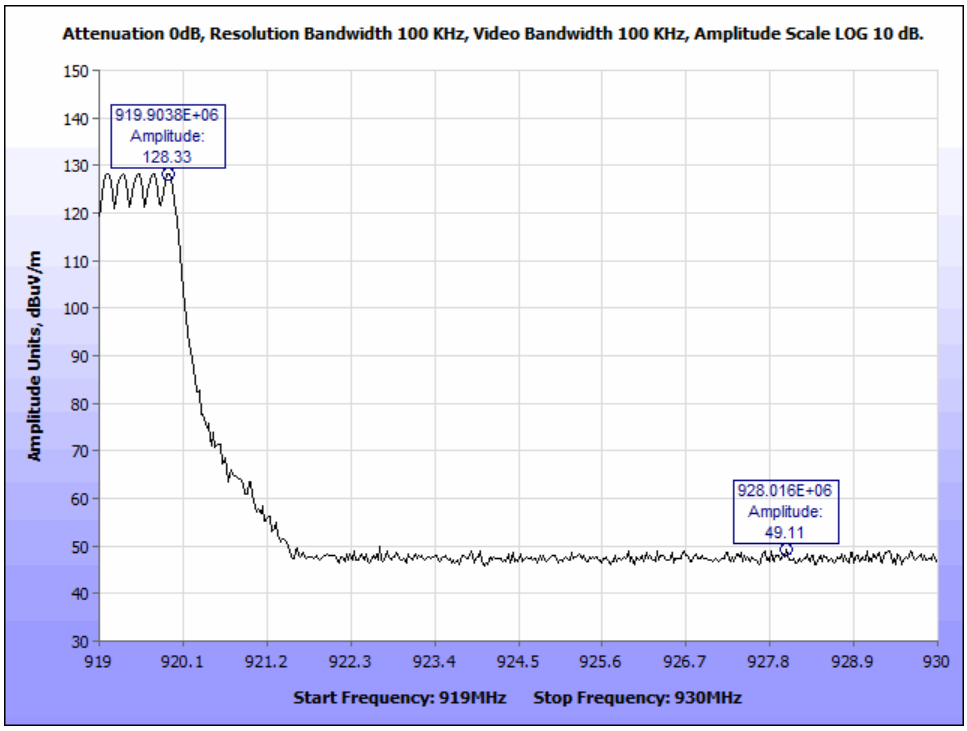

Figure 139. FCC B - Hopping - 13dBi - Radiated High Band Edge.

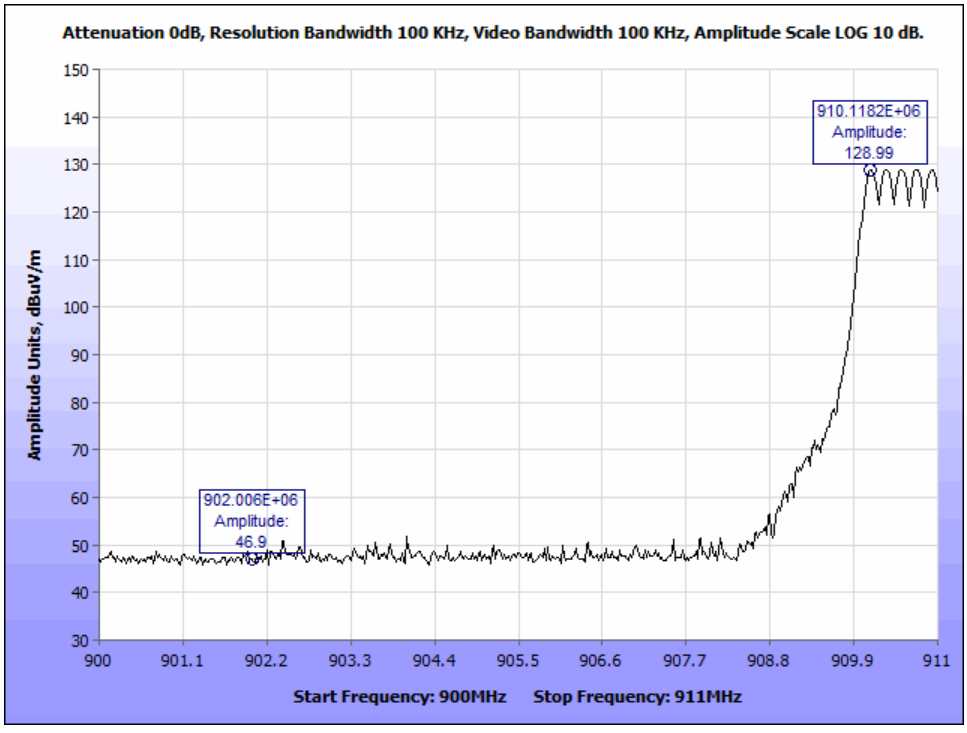

Figure 140. FCC B - Hopping - 13dBi - Radiated Low Band Edge.

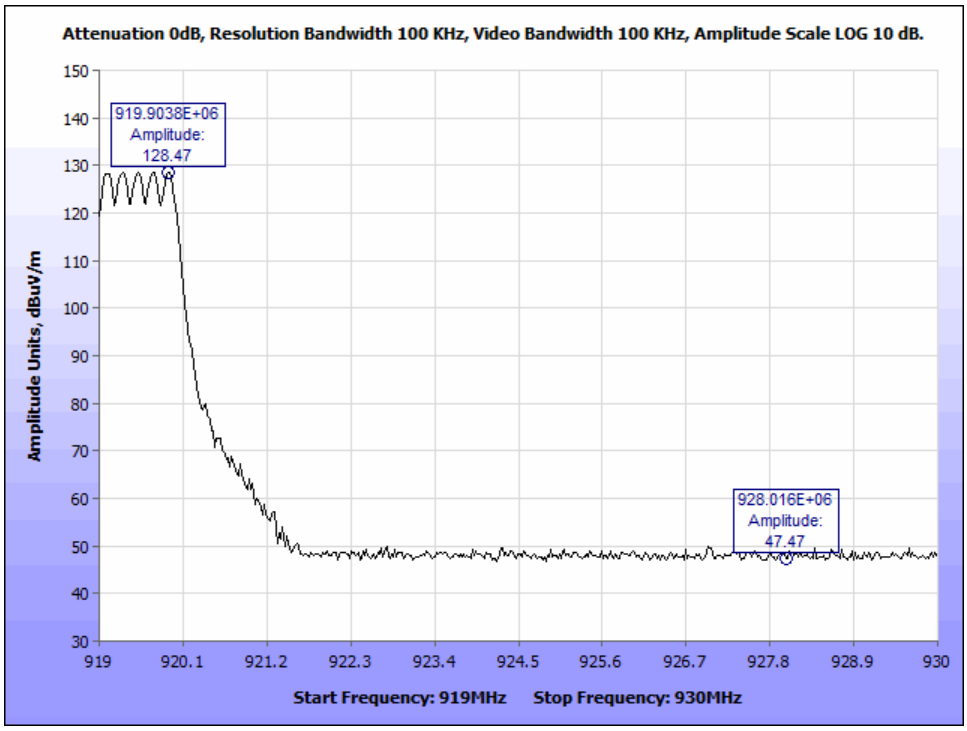

Figure 141. FCC B - Hopping - 15dBi - Radiated High Band Edge.

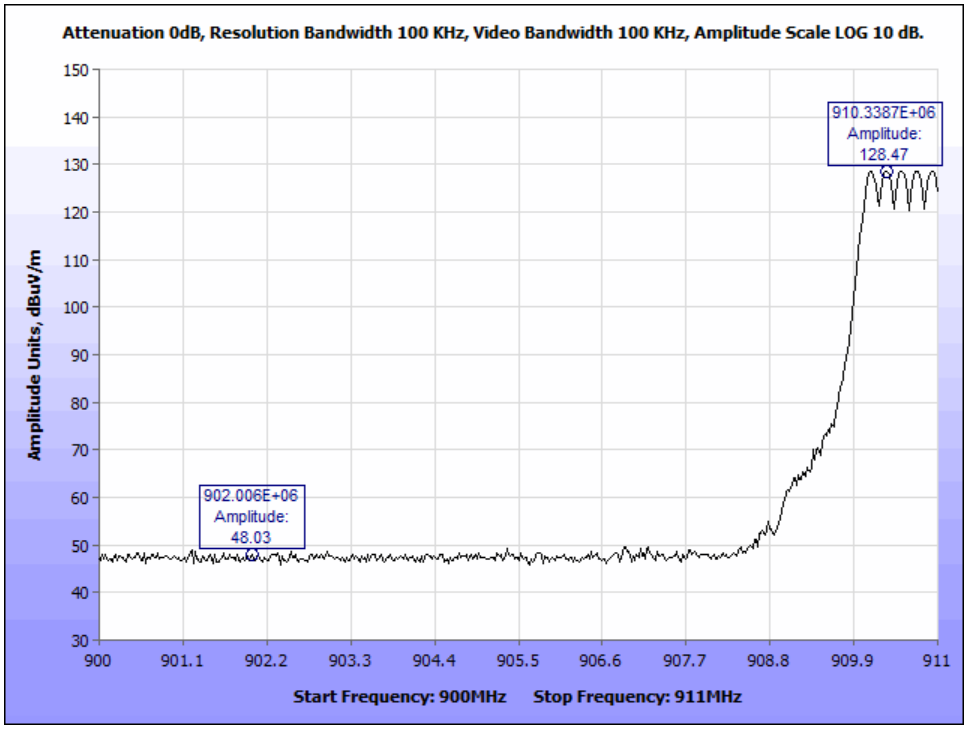

Figure 142. FCC B - Hopping - 15dBi - Radiated Low Band Edge.

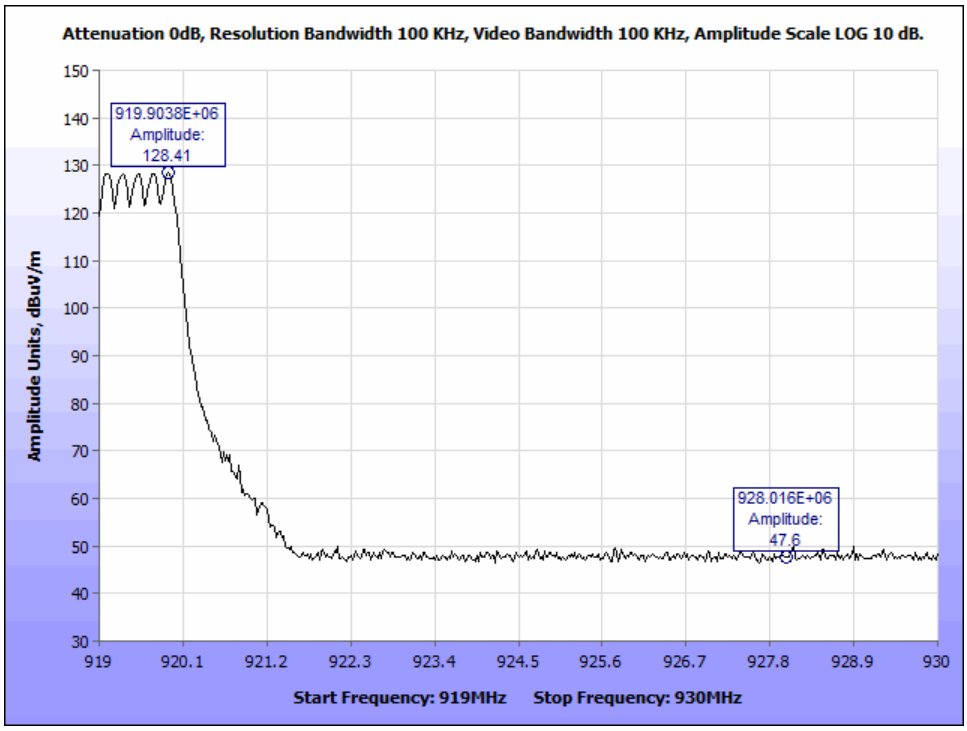

Figure 143. FCC B - Hopping - 9.5dBi - Radiated High Band Edge.

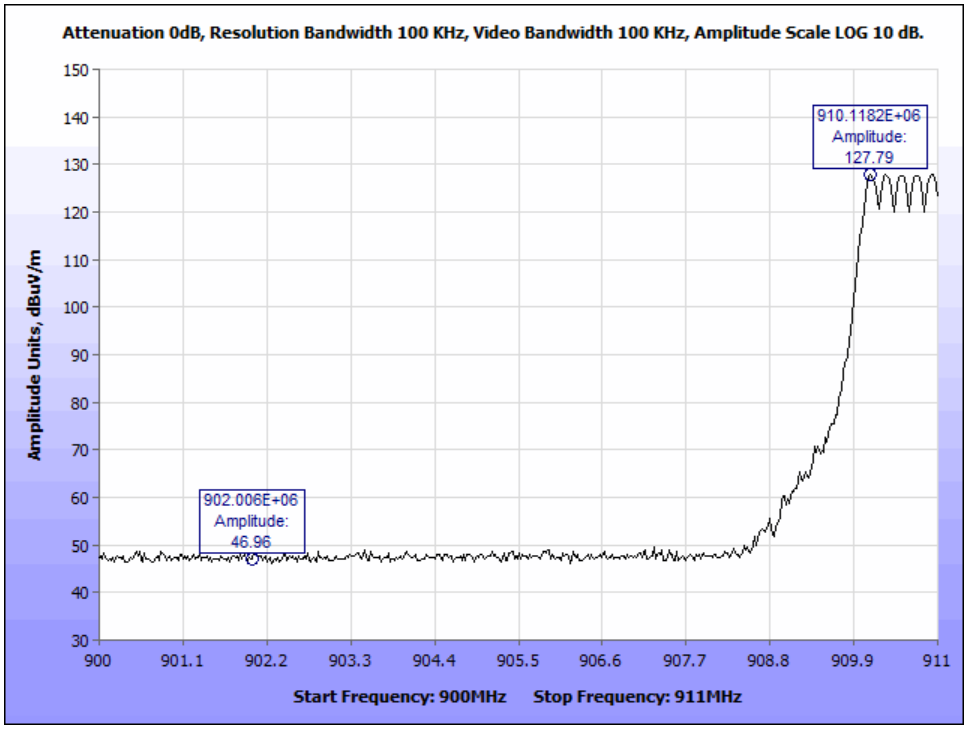

Figure 144. FCC B - Hopping - 9.5dBi - Radiated Low Band Edge.

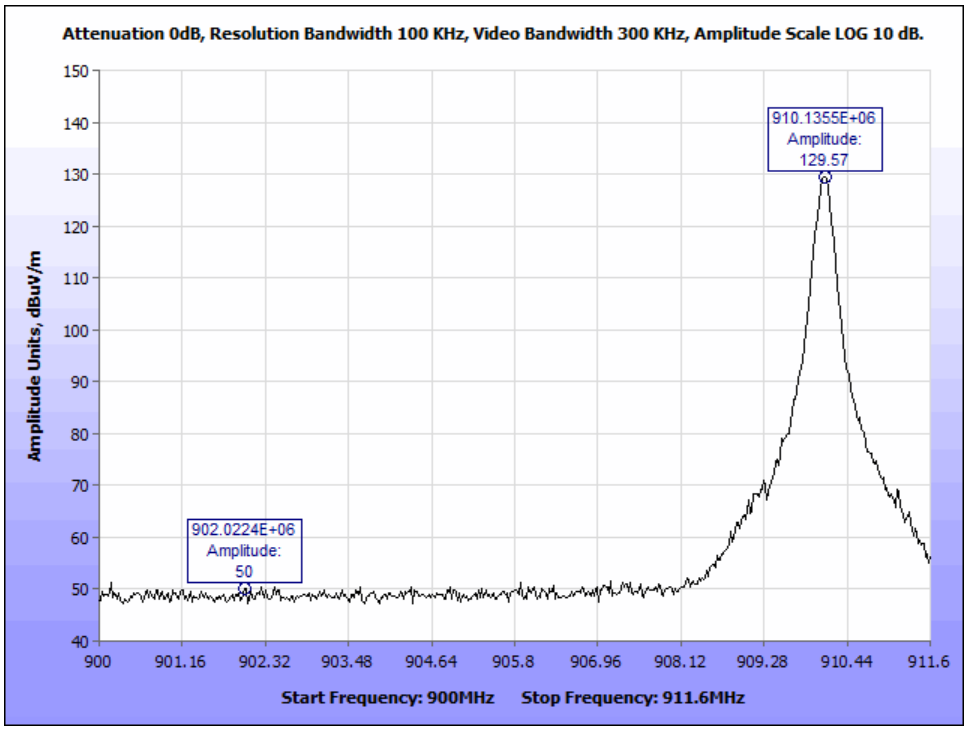

Figure 145. FCC B - Low Channel - 910.1MHz - 13dBi - Radiated Band Edge

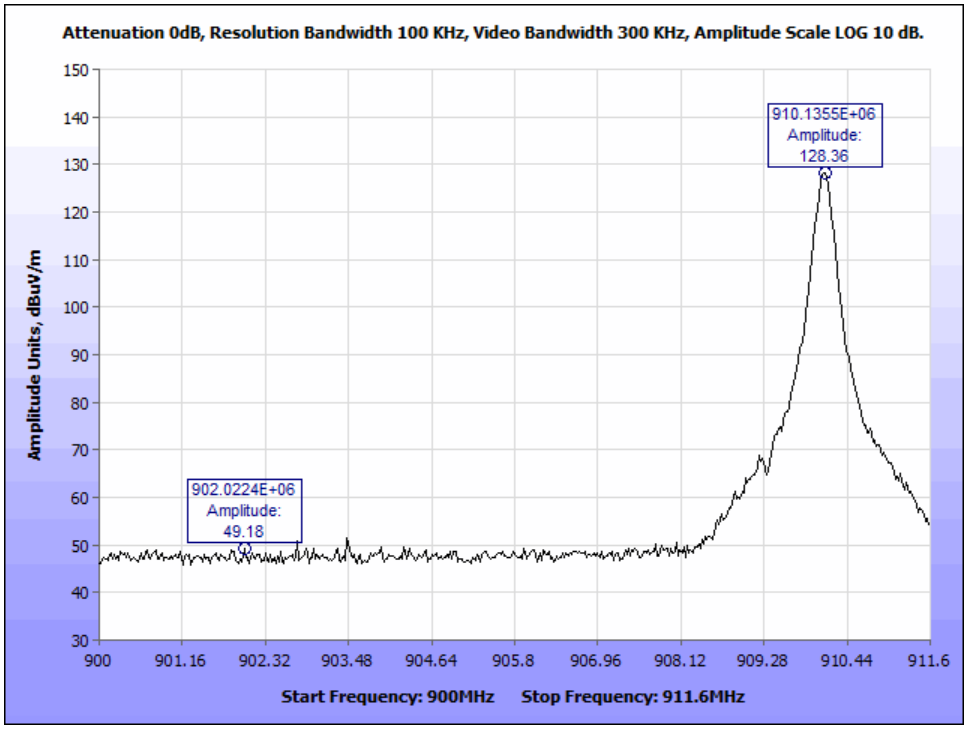

Figure 146. FCC B - Low Channel - 910.1MHz - 15dBi - Radiated Band Edge

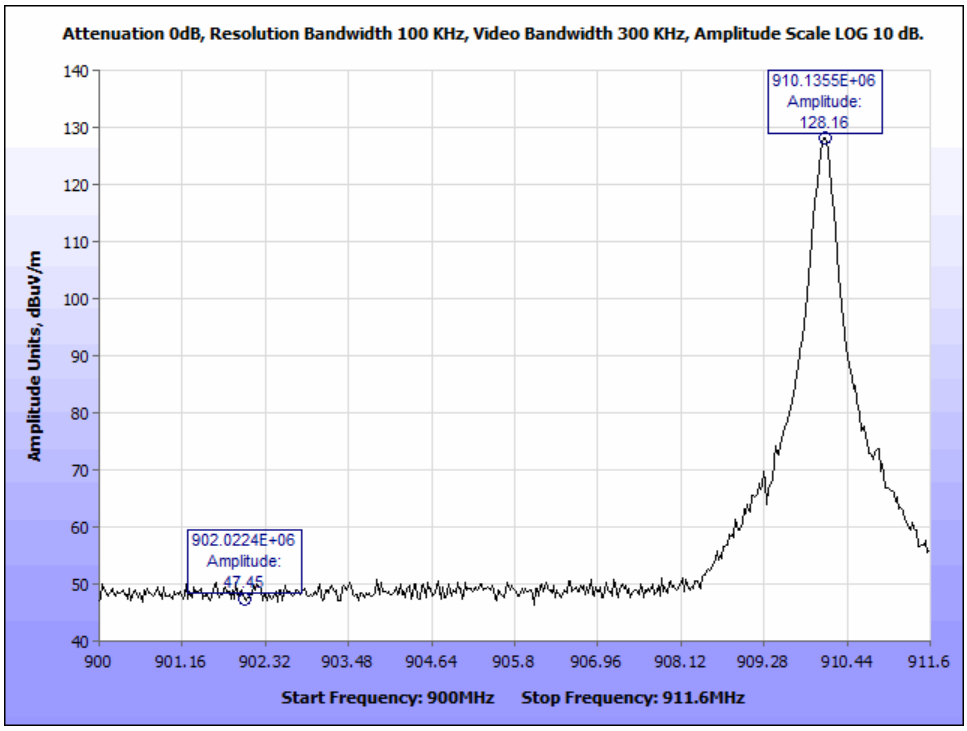

Figure 147. FCC B - Low Channel - 910.1MHz - 9.5dBi - Radiated Band Edge

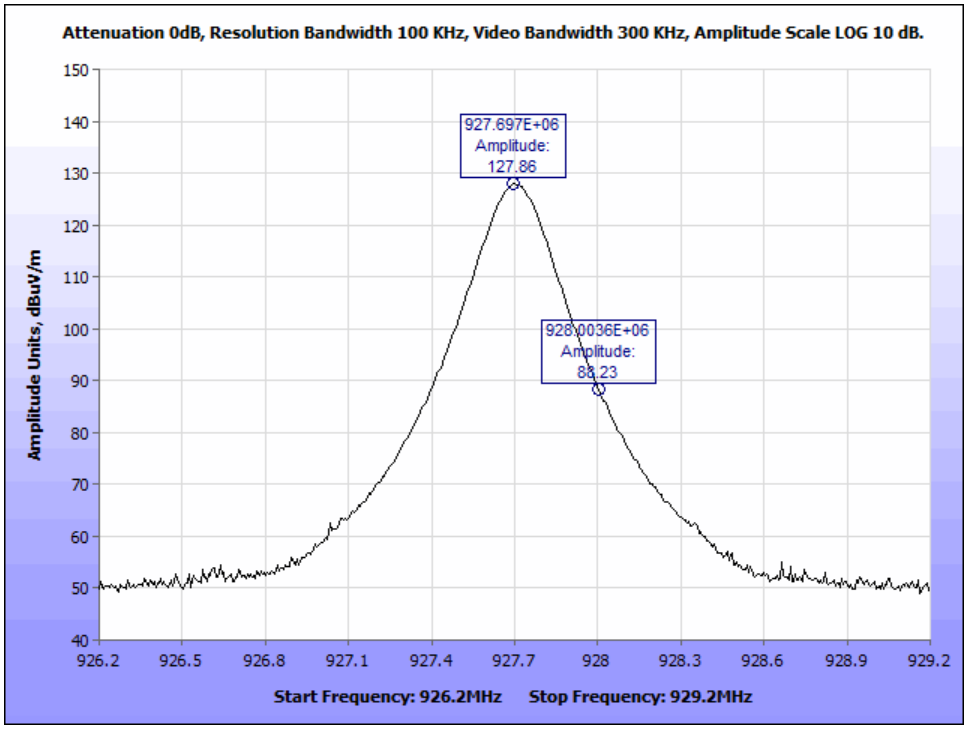

Figure 148. FCC C - High Channel - 927.7MHz - 13dBi - Radiated Band Edge

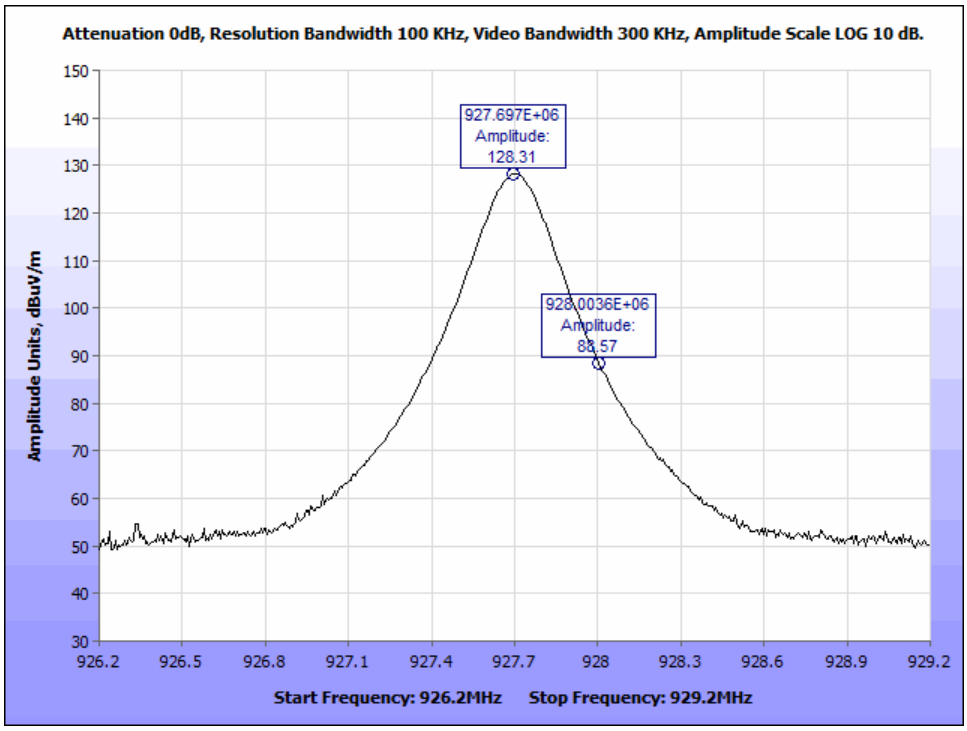

Figure 149. FCC C - High Channel - 927.7MHz - 15dBi - Radiated Band Edge

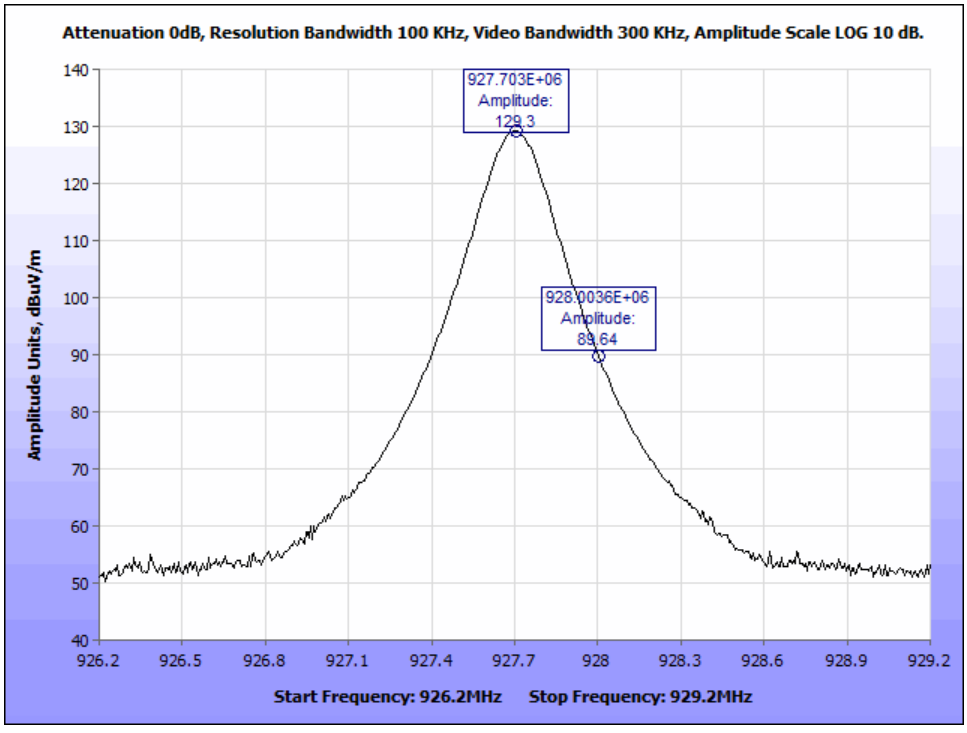

Figure 150. FCC C - High Channel - 927.7MHz - 9.5dBi - Radiated Band Edge

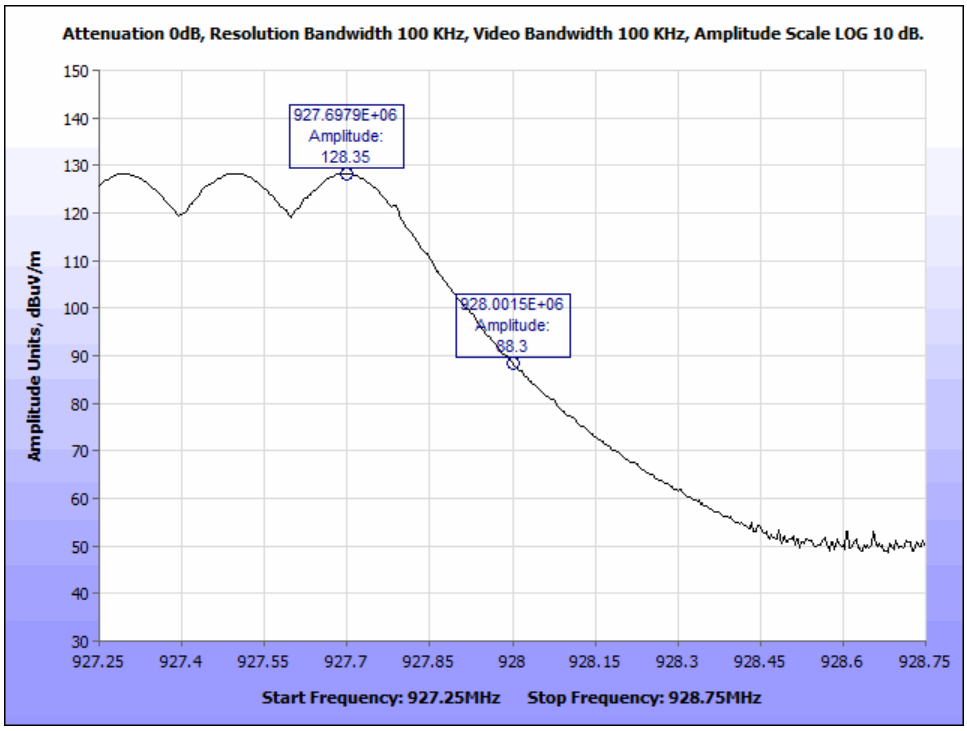

Figure 151. FCC C - Hopping - 13dBi - Radiated High Band Edge.

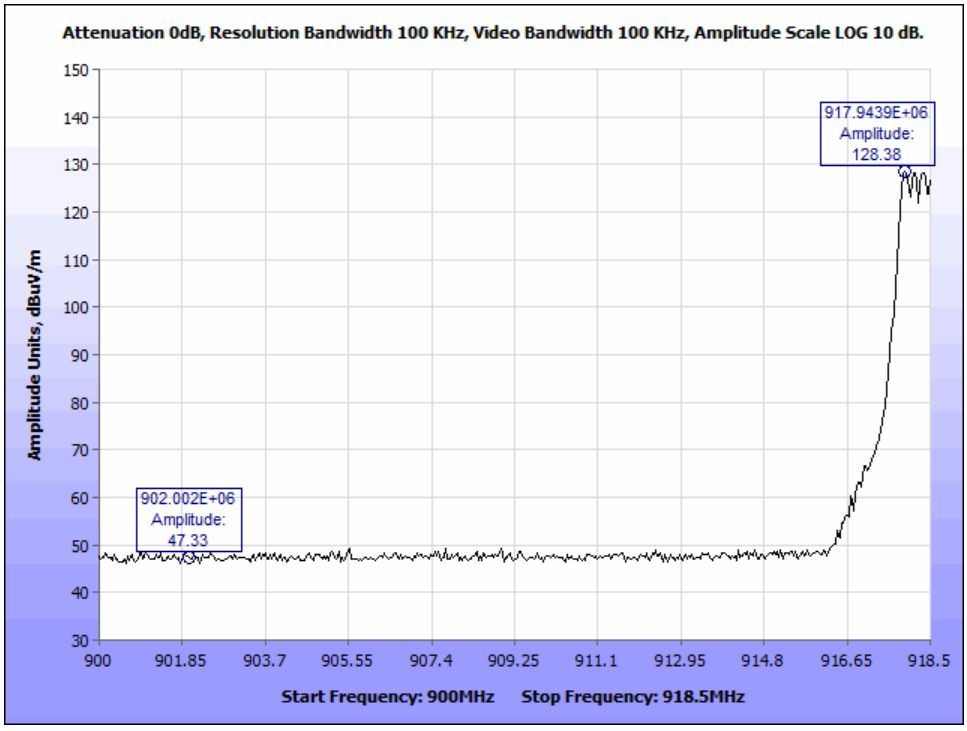

Figure 152. FCC C - Hopping - 13dBi - Radiated Low Band Edge.

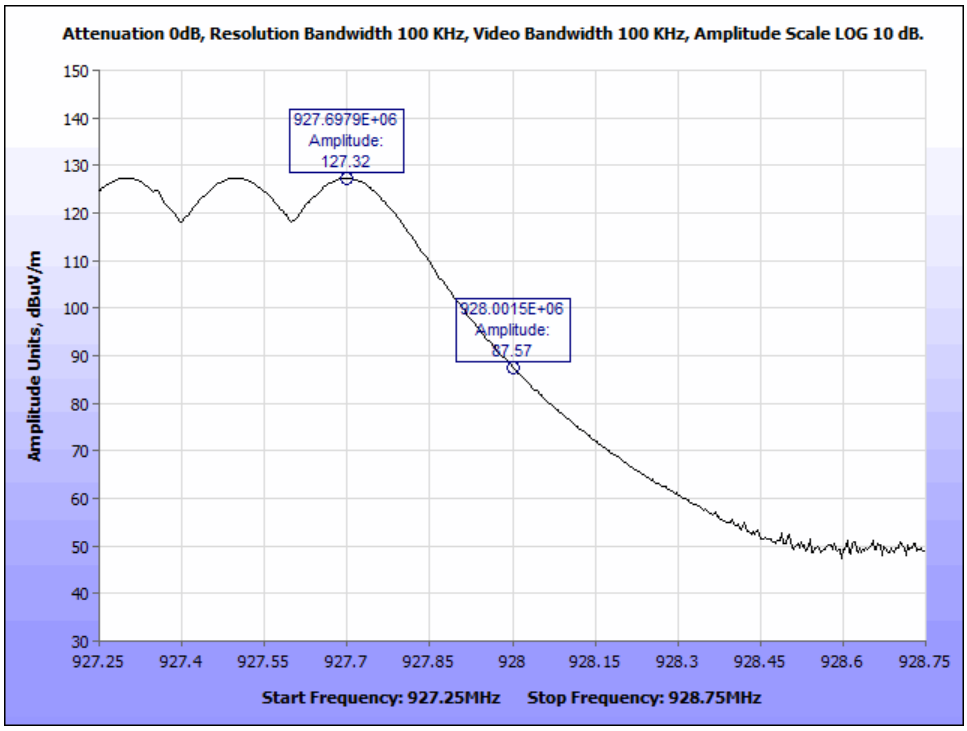

Figure 153. FCC C - Hopping - 15dBi - Radiated High Band Edge.

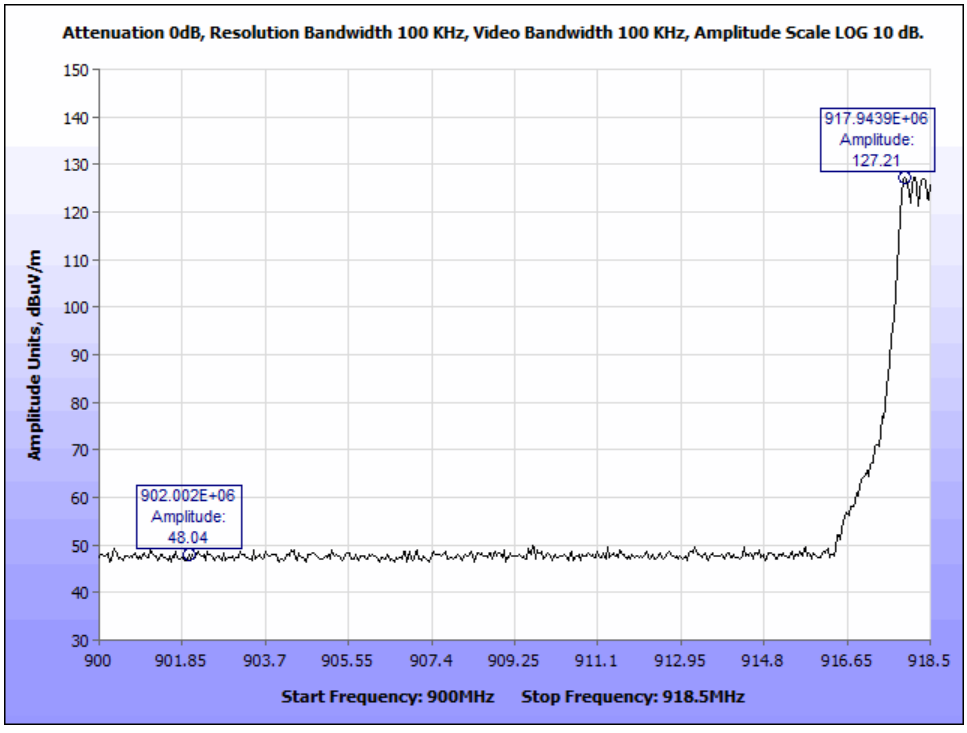

Figure 154. FCC C - Hopping - 15dBi - Radiated Low Band Edge.

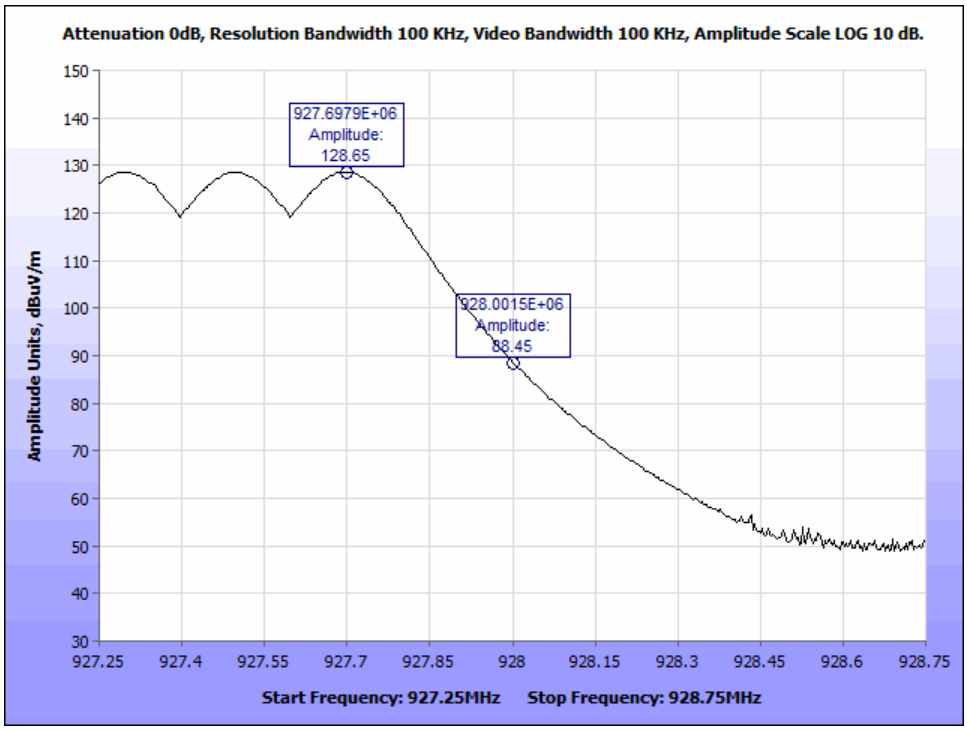

Figure 155. FCC C - Hopping - 9.5dBi - Radiated High Band Edge.

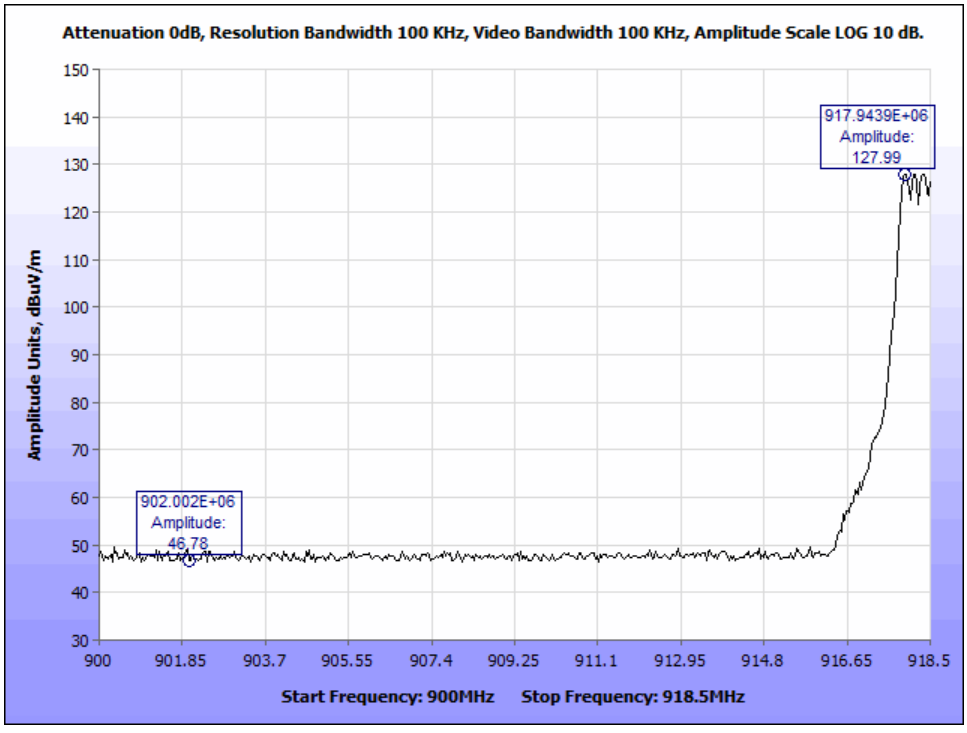

Figure 156. FCC C - Hopping - 9.5dBi - Radiated Low Band Edge.

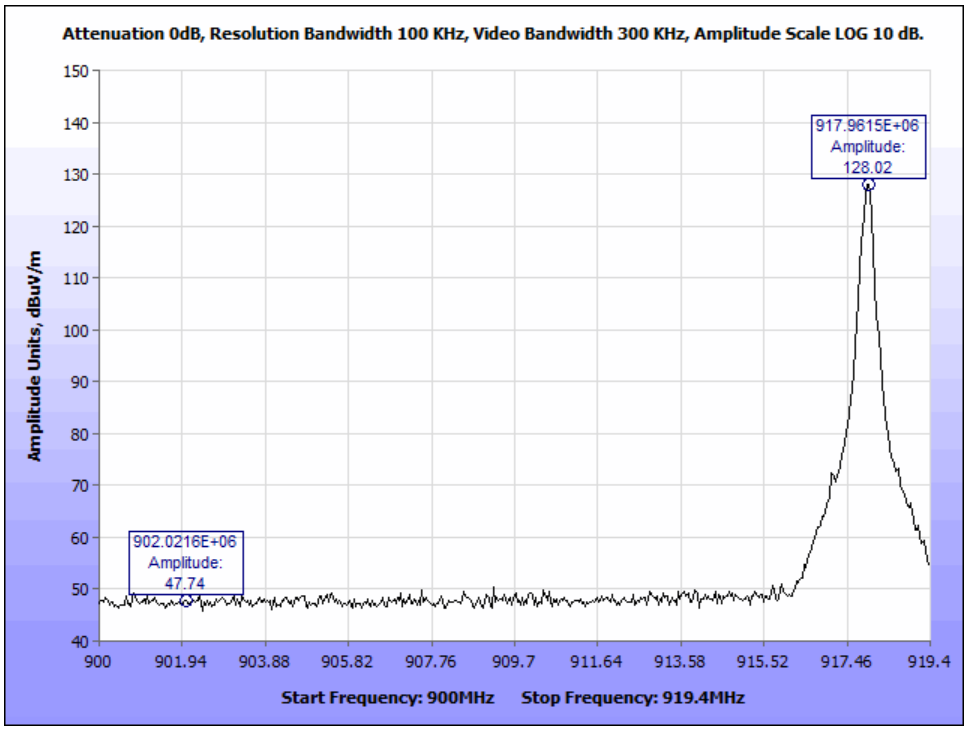

Figure 157. FCC C - Low Channel - 917.9MHz - 13dBi - Radiated Band Edge

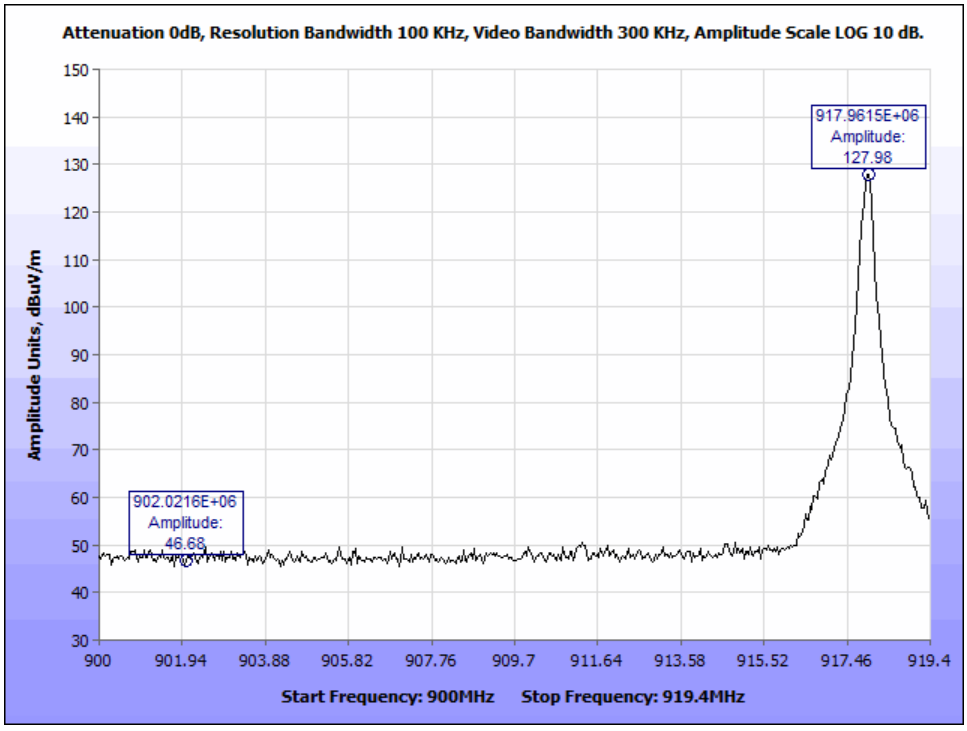

Figure 158. FCC C - Low Channel - 917.9MHz - 15dBi - Radiated Band Edge

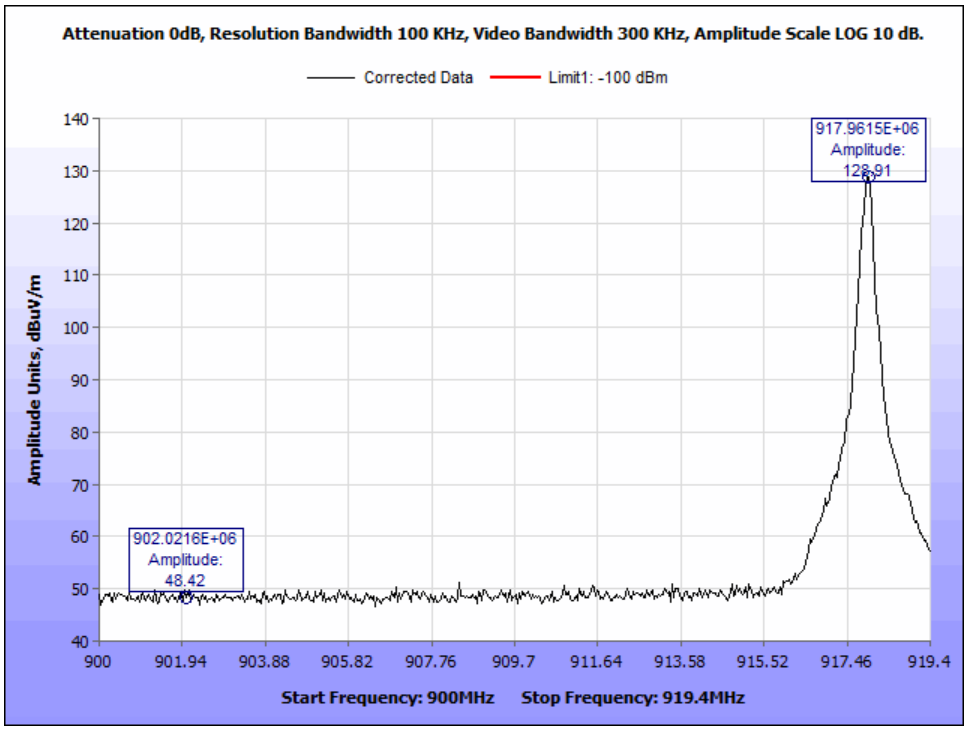

Figure 159. FCC C - Low Channel - 917.9MHz - 9.5dBi - Radiated Band Edge

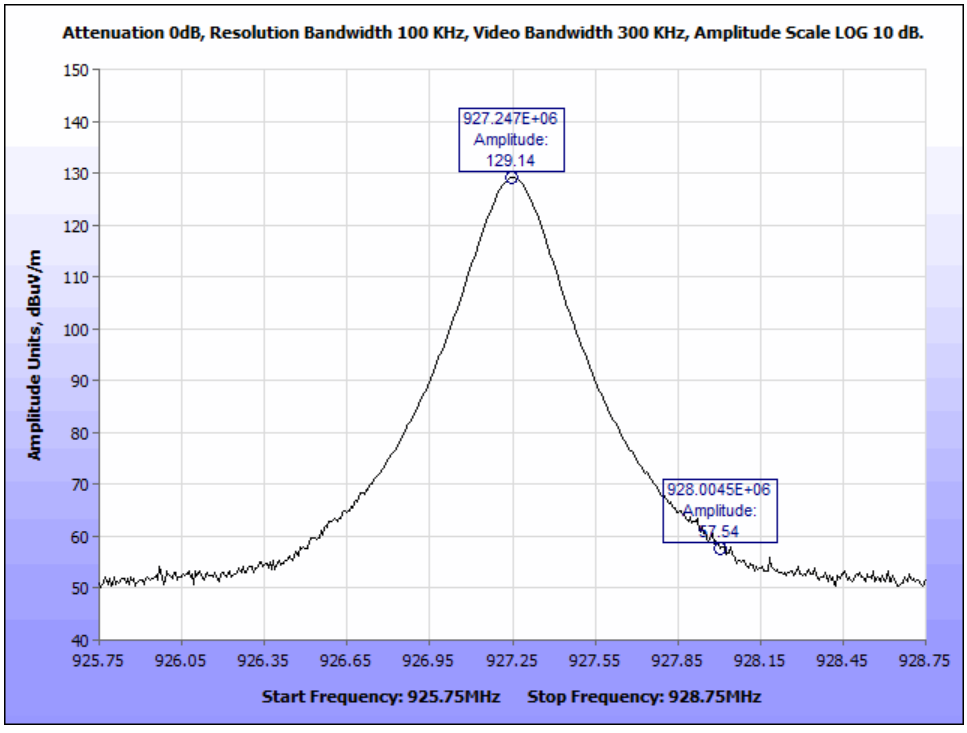

Figure 160. FCC Dense - High Channel - 9027.25MHz - 13dBi - Radiated Band Edge

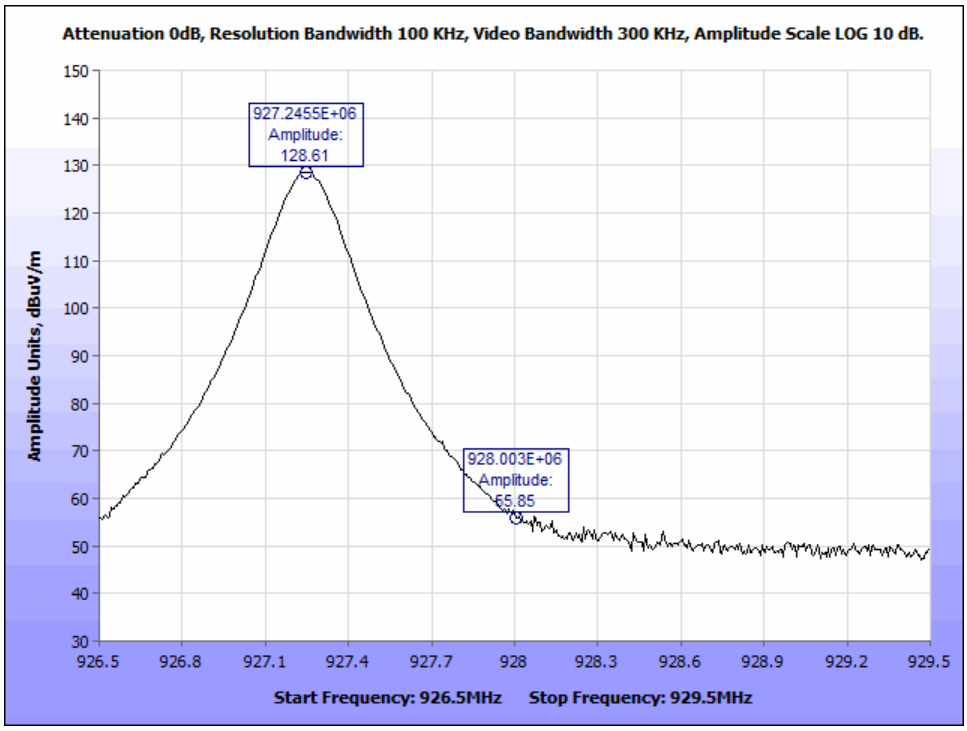

Figure 161. FCC Dense - High Channel - 9027.25MHz - 15dBi - Radiated Band Edge

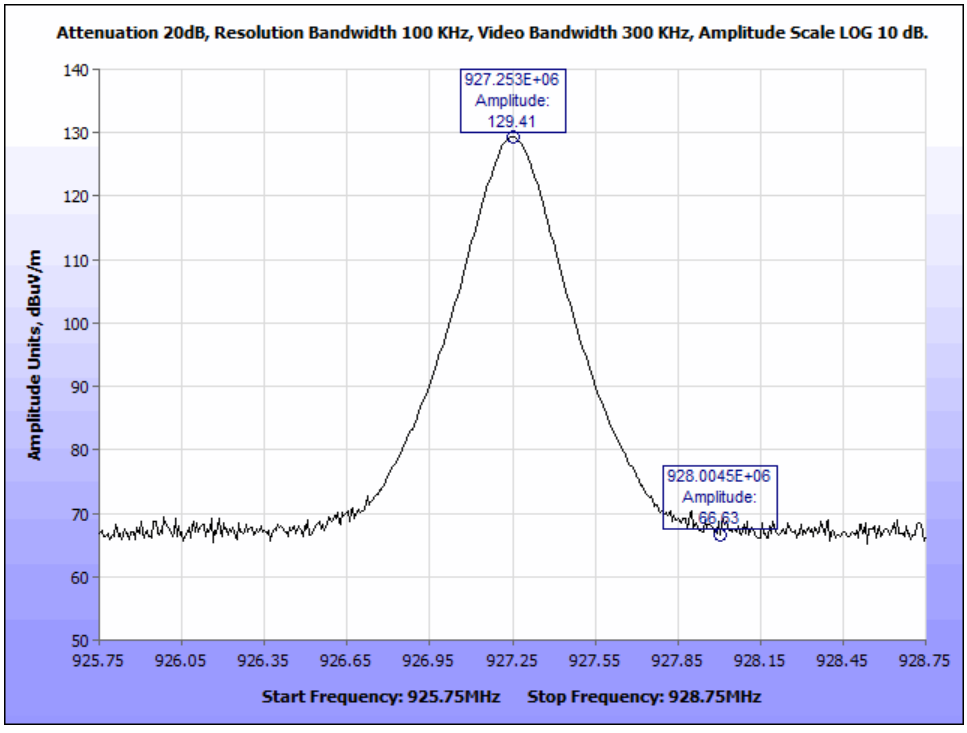

Figure 162. FCC Dense - High Channel - 9027.25MHz - 9.5dBi - Radiated Band Edge

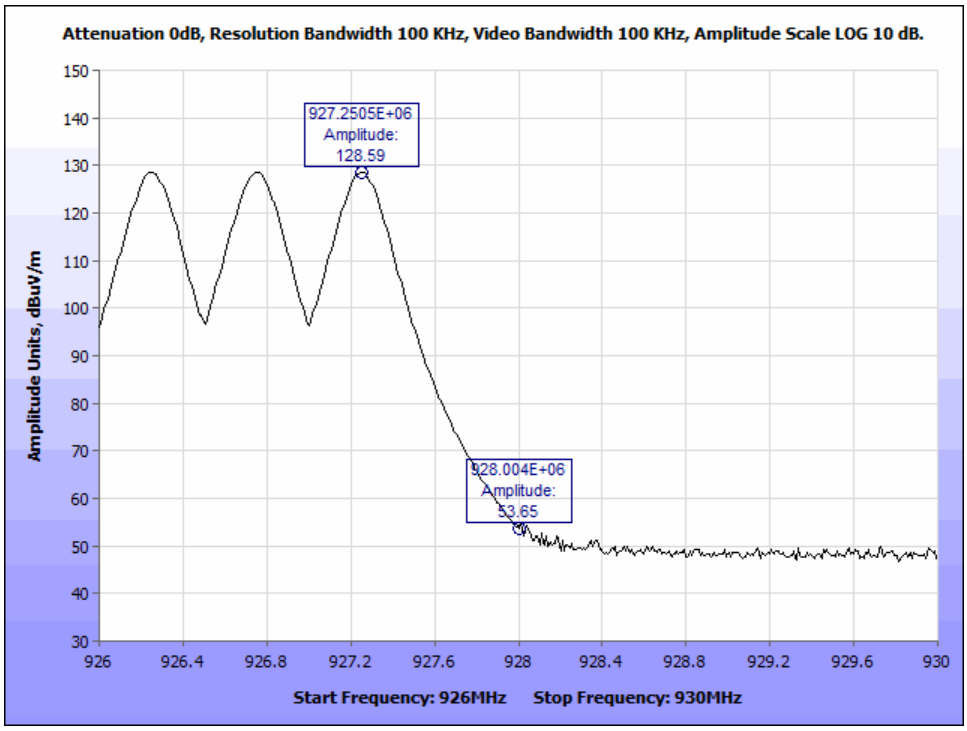

Figure 163. FCC Dense - Hopping - 13dBi - Radiated High Band Edge.

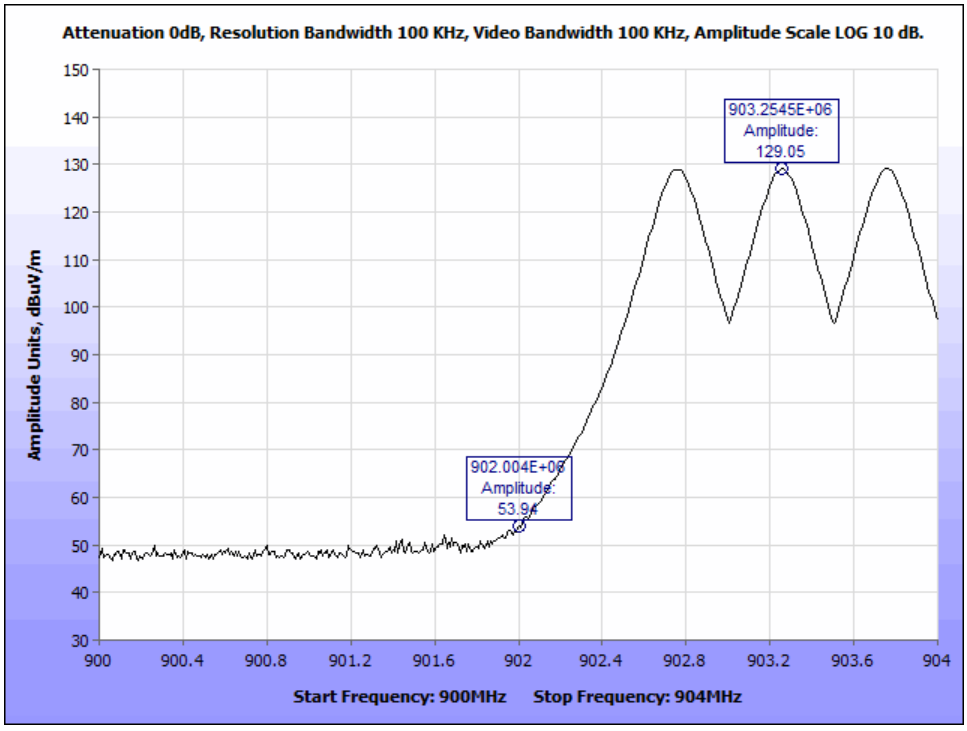

Figure 164. FCC Dense - Hopping - 13dBi - Radiated Low Band Edge.

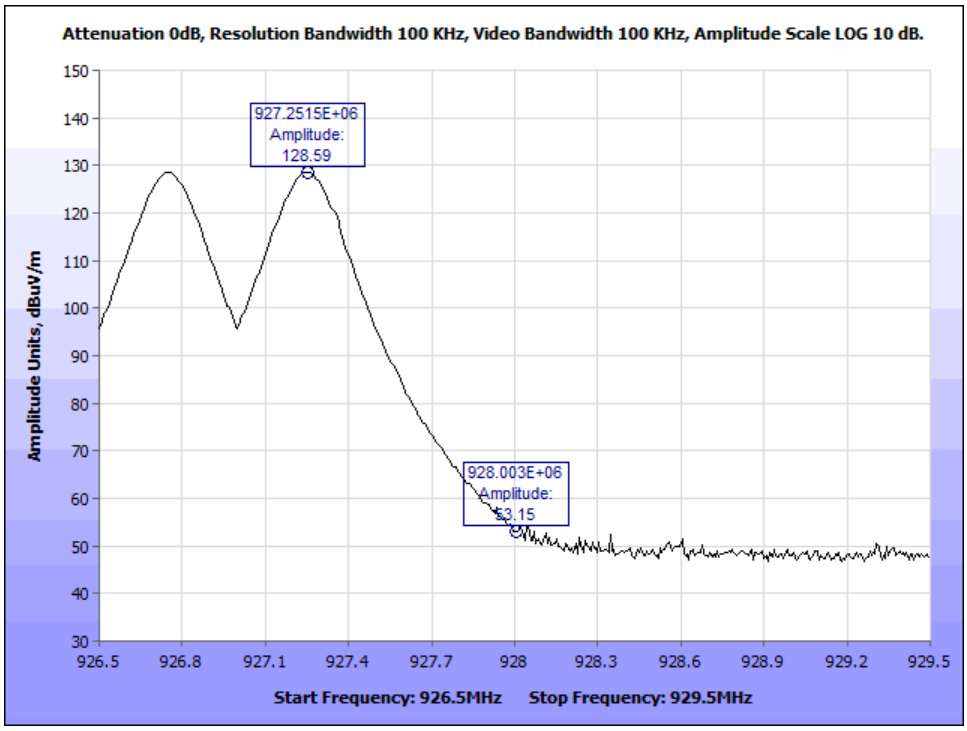

Figure 165. FCC Dense - Hopping - 15dBi - Radiated High Band Edge.

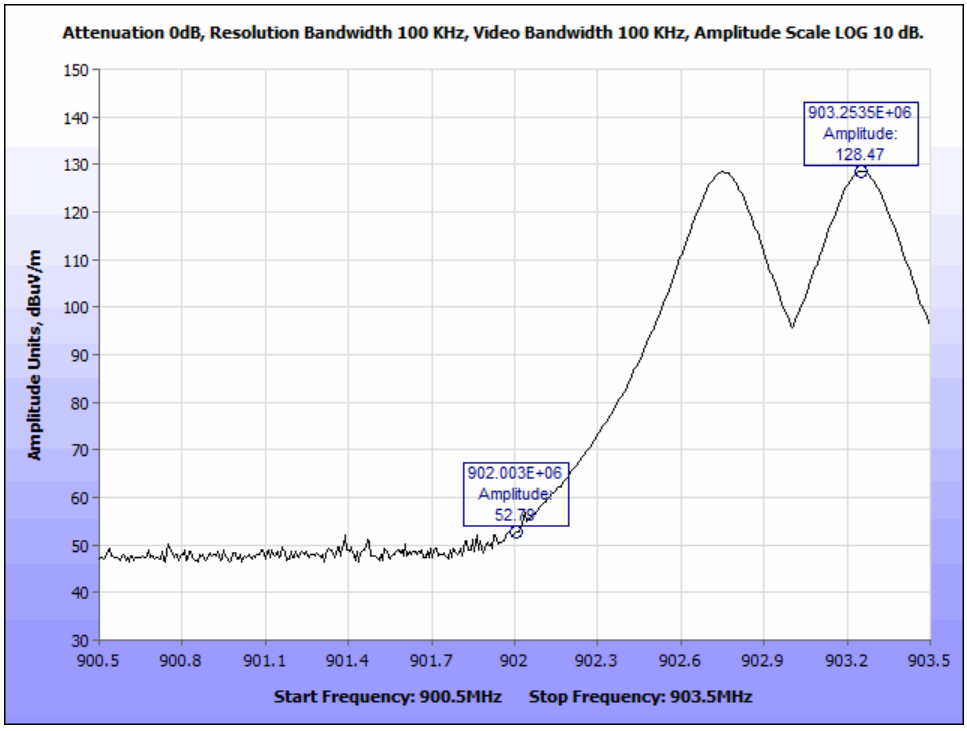

Figure 166. FCC Dense - Hopping - 15dBi - Radiated Low Band Edge.

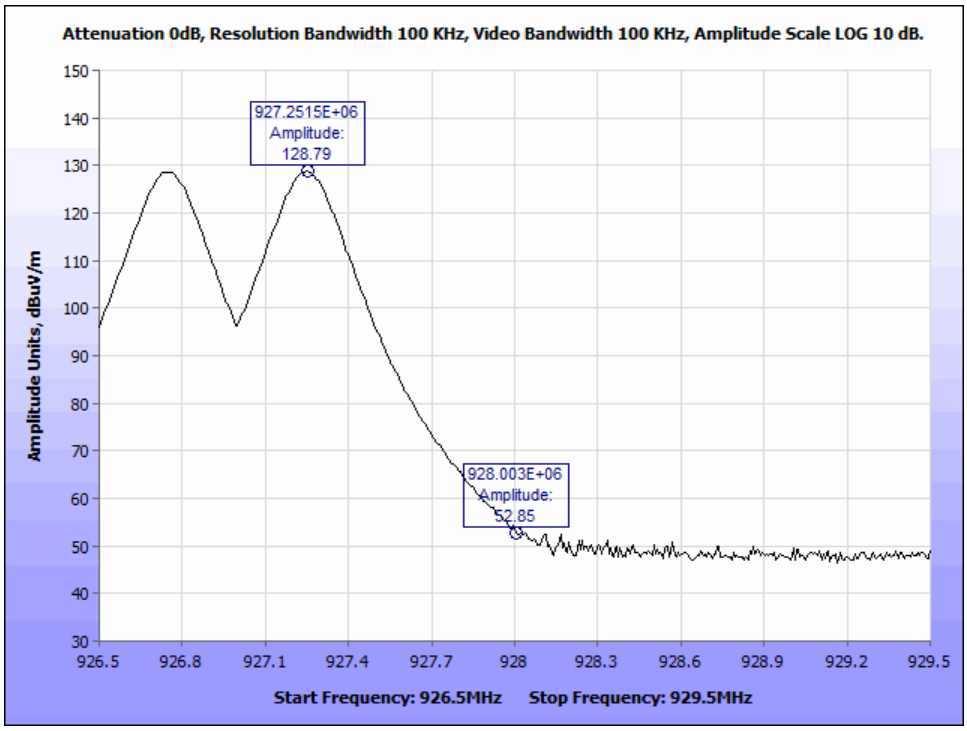

Figure 167. FCC Dense - Hopping - 9.5dBi - Radiated High Band Edge.

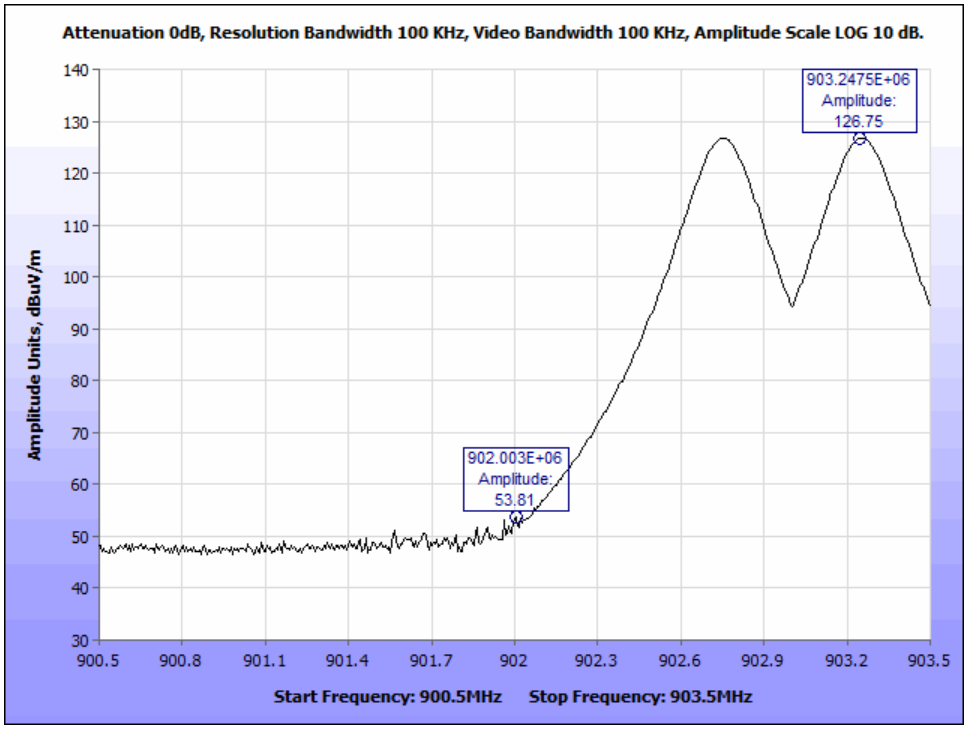

Figure 168. FCC Dense - Hopping - 9.5dBi - Radiated Low Band Edge.

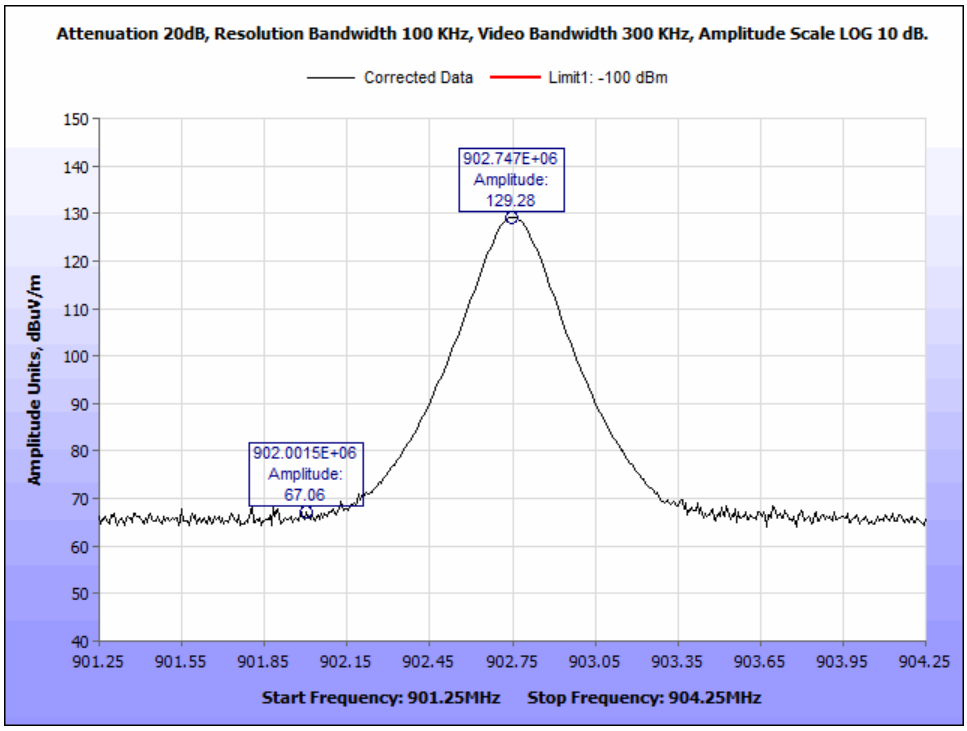

Figure 169. FCC Dense - Low Channel - 902.75MHz - 13dBi - Radiated Band Edge

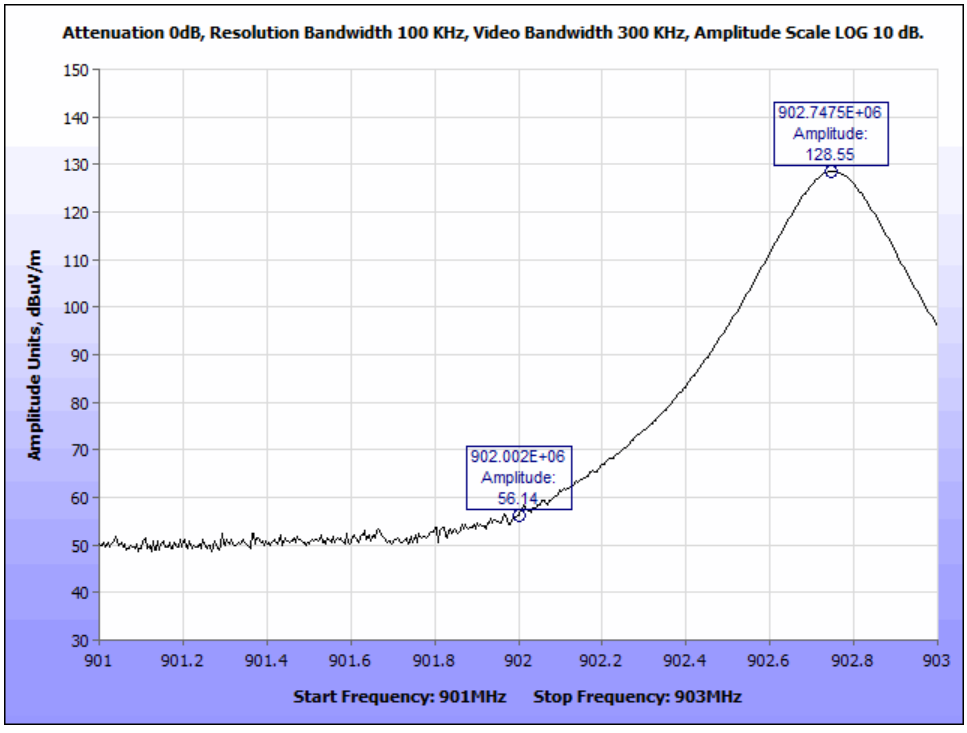

Figure 170. FCC Dense - Low Channel - 902.75MHz - 15dBi - Radiated Band Edge

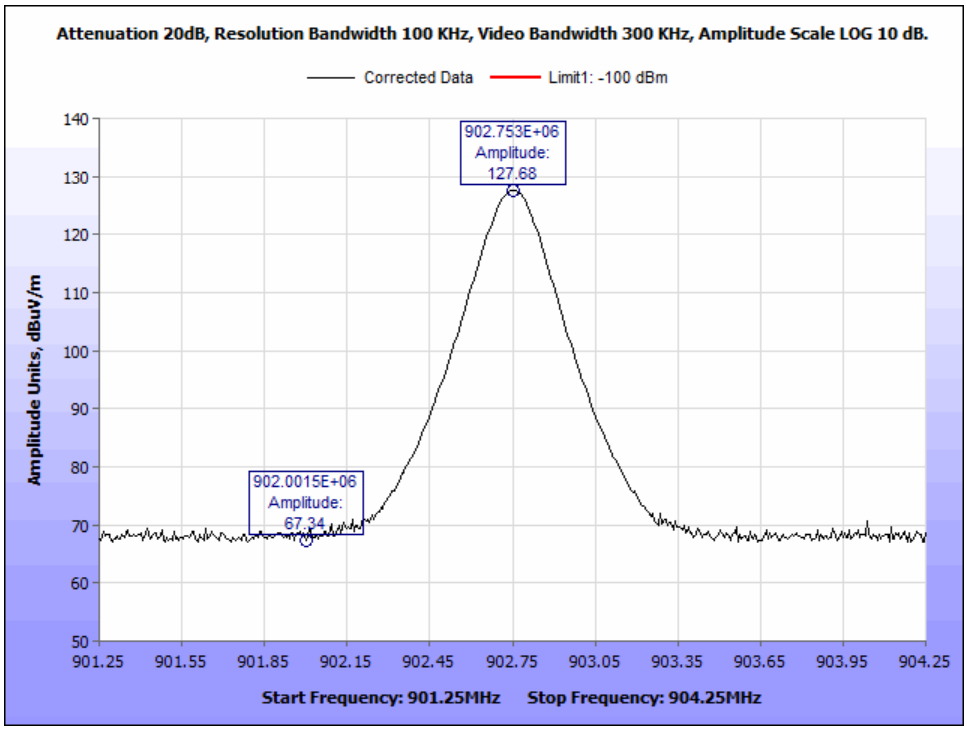

Figure 171. FCC Dense - Low Channel - 902.75MHz - 9.5dBi - Radiated Band Edge

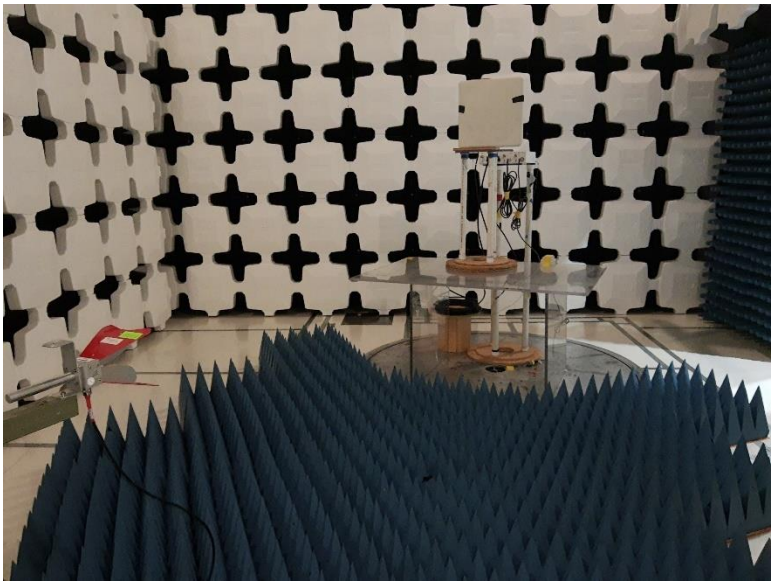

Figure 172. Radiated Emissions Test Setup above 1GHz - 13dBi Antenna

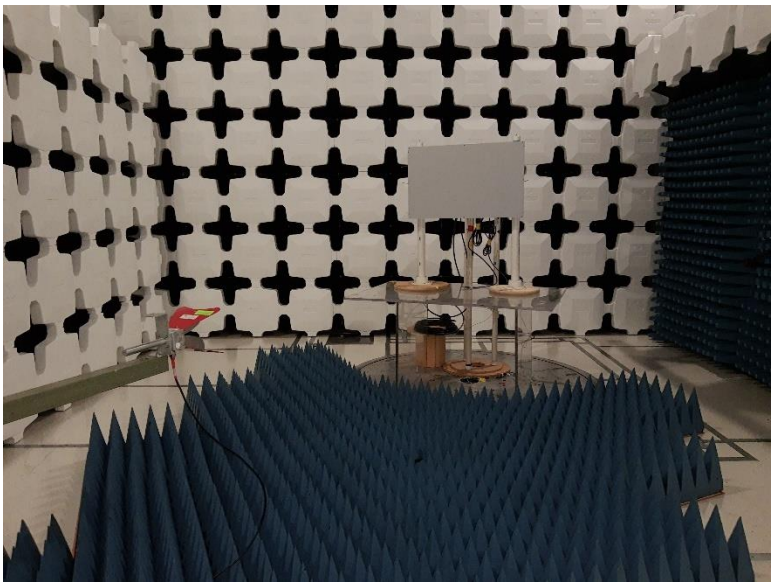

Figure 173. Radiated Emissions Test Setup above 1GHz - 15dBi Antenna

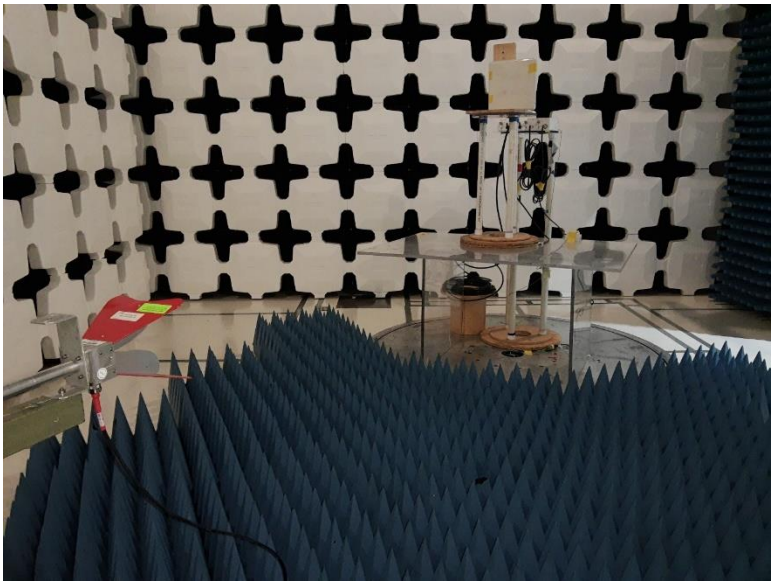

Figure 174. Radiated Emissions Test Setup above 1GHz - 9.5dBi Antenna

Figure 175. Radiated Emissions Test Setup below 1GHz - 13dBi Antenna

Figure 176. Radiated Emissions Test Setup below 1GHz - 15dBi Antenna

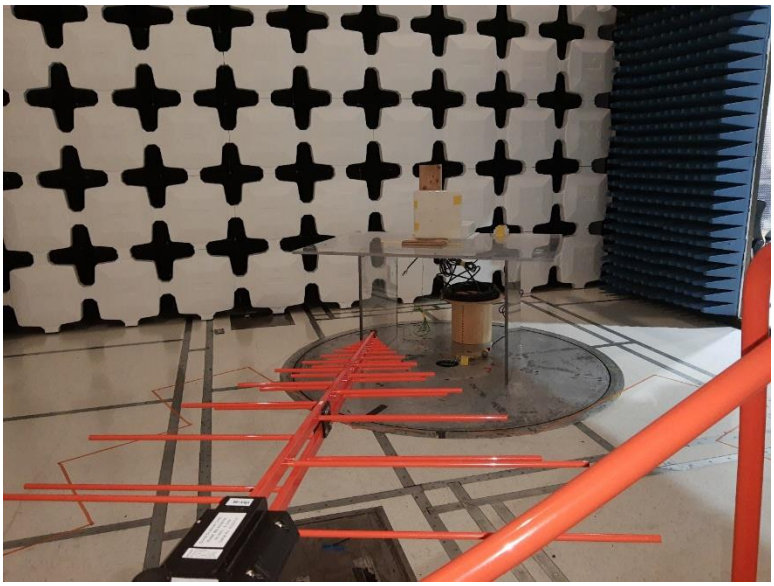

Figure 177. Radiated Emissions Test Setup below 1GHz - 9.5dBi Antenna

Title 47 of the CFR, Part 15 §15.247(d) Spurious Conducted Emissions

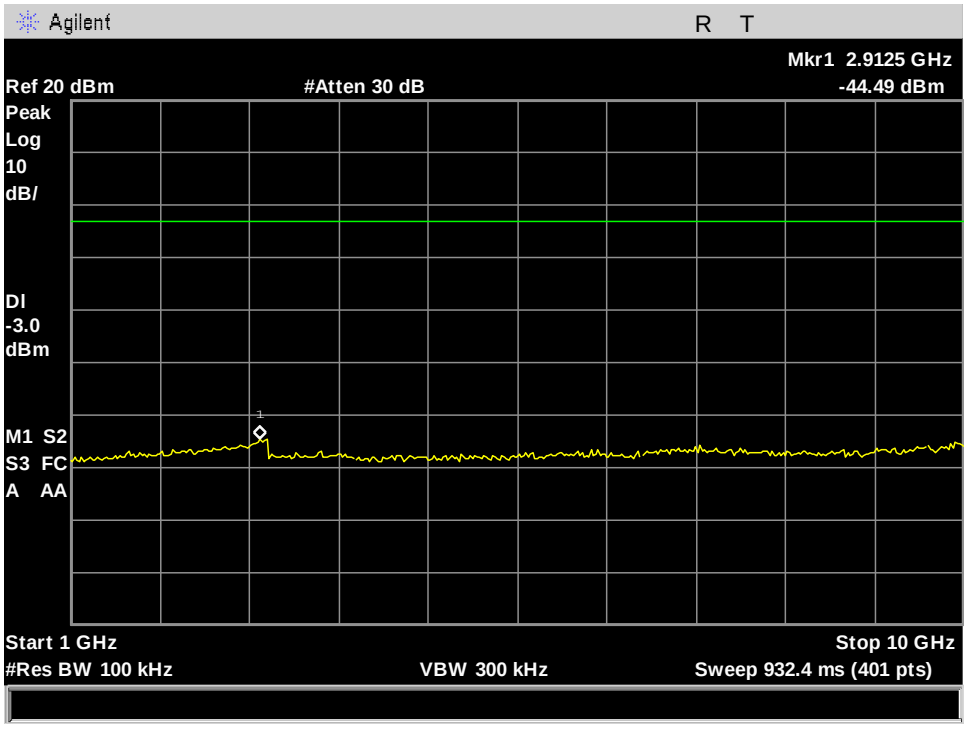

Figure 178. fcc_a 100kHz spurious emissions 1-10 GHz

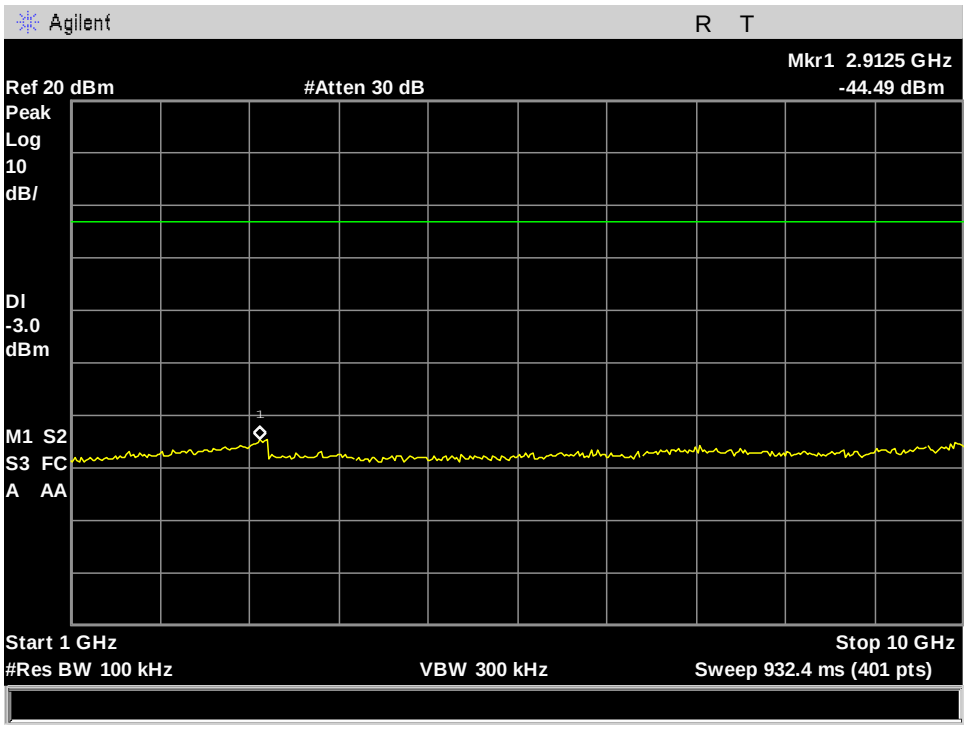

Figure 179. fcc_a 100kHz spurious emissions 30-1000 MHz

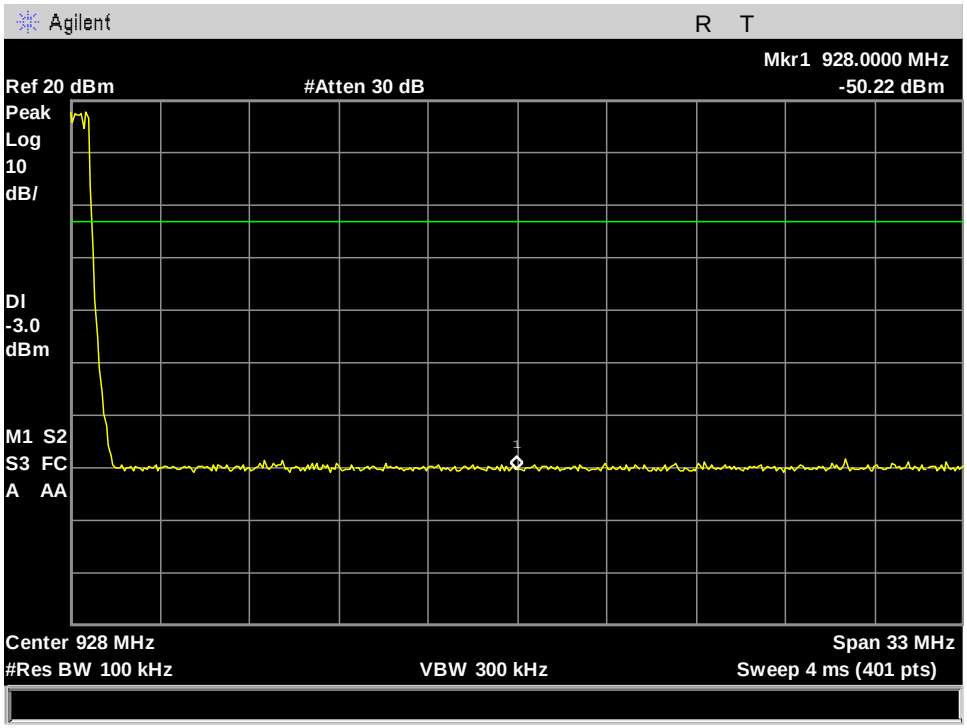

Figure 180. fcc_a 100kHz spurious emissions high band edge hopping

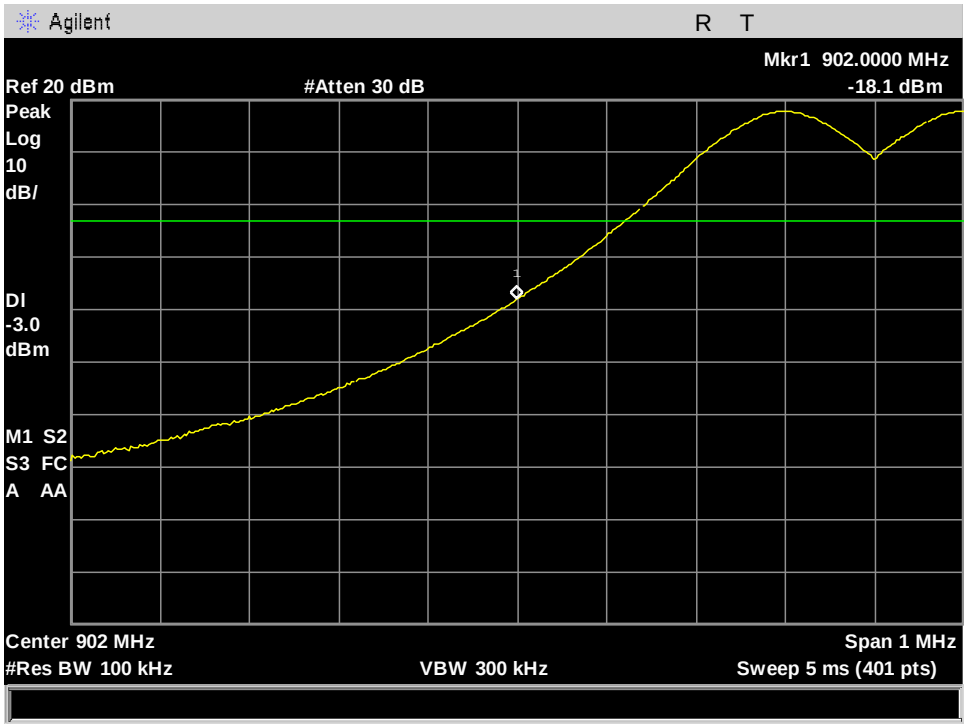

Figure 181. fcc_a 100kHz spurious emissions low band edge hopping

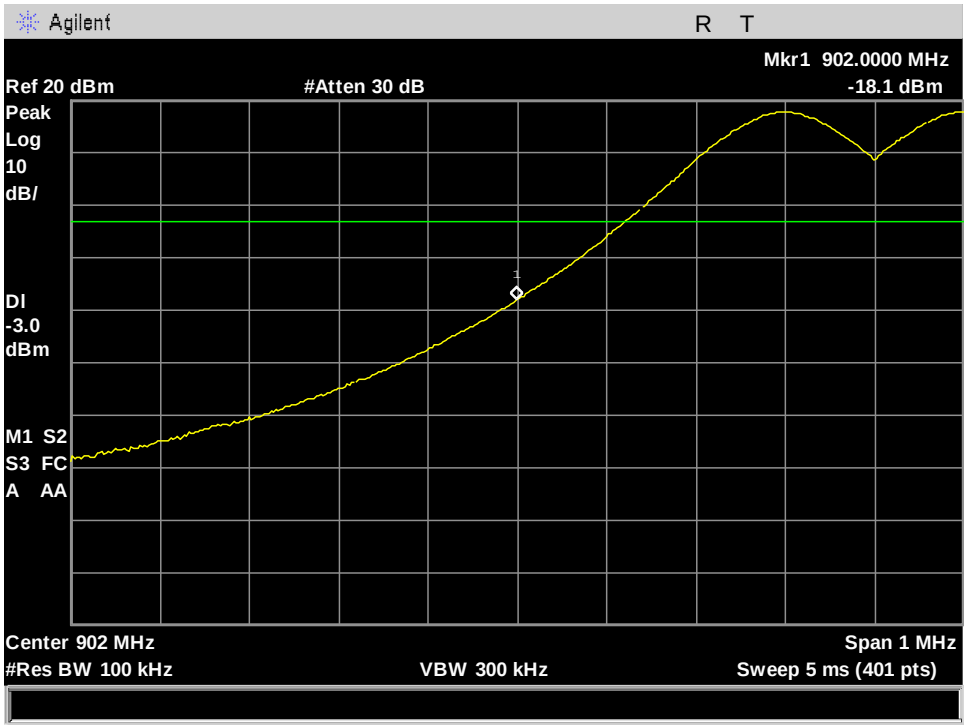

Figure 182. FCC_A_High Ch_912.1MHz_200KHz_20dBc_10-26GHz_Port 2

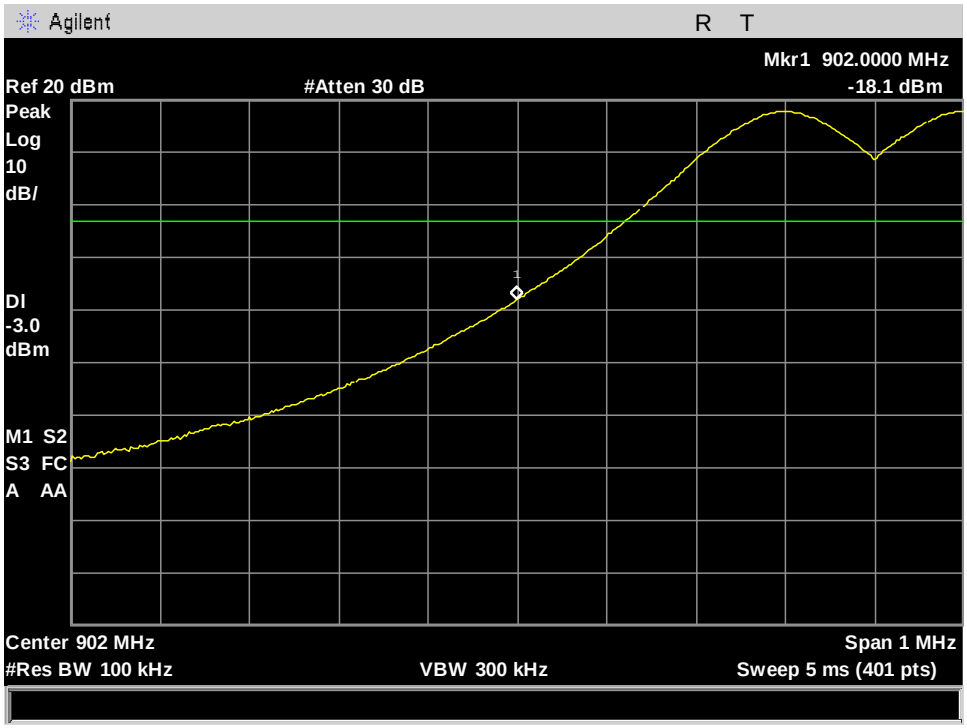

Figure 183. FCC_A_High Ch_912.1MHz_200KHz_20dBc_30MHz-10GHz_Port 2

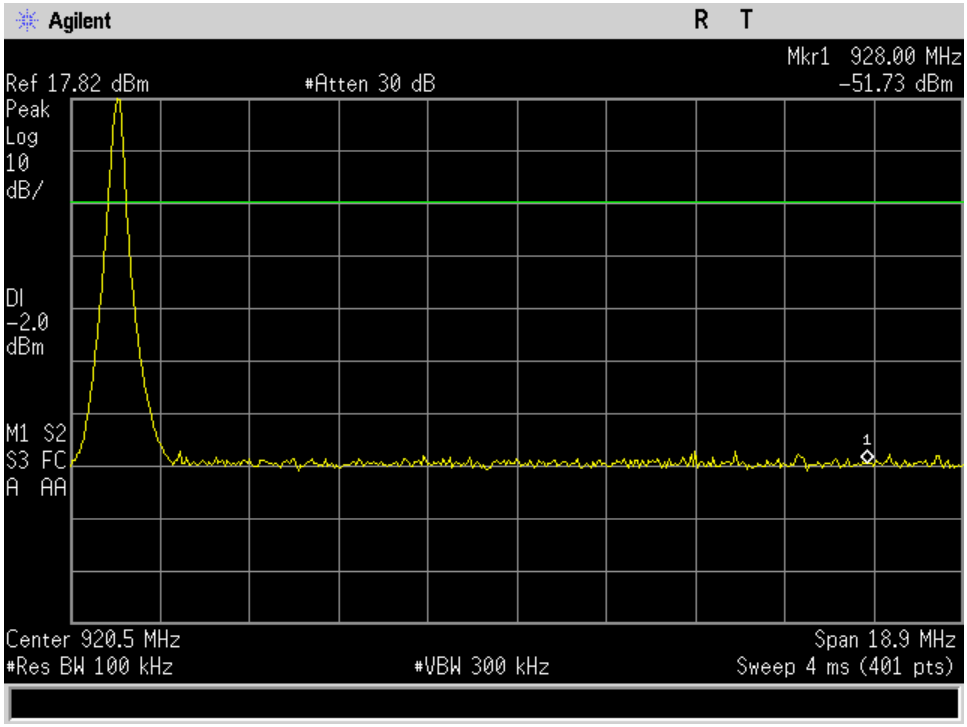

Figure 184. FCC_A_High Ch_912.1MHz_200KHz_20dBc_Upper Band Edge_Port 2

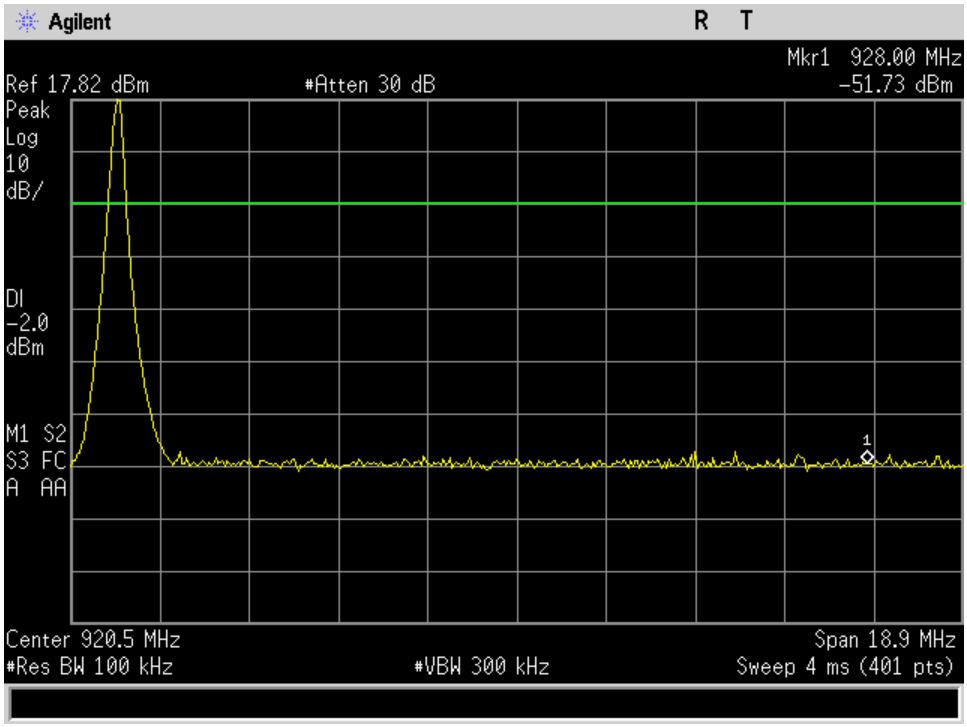

Figure 185. FCC_A_Low Ch_902.3MHz_200KHz_20dBc_10-26GHz_Port 2

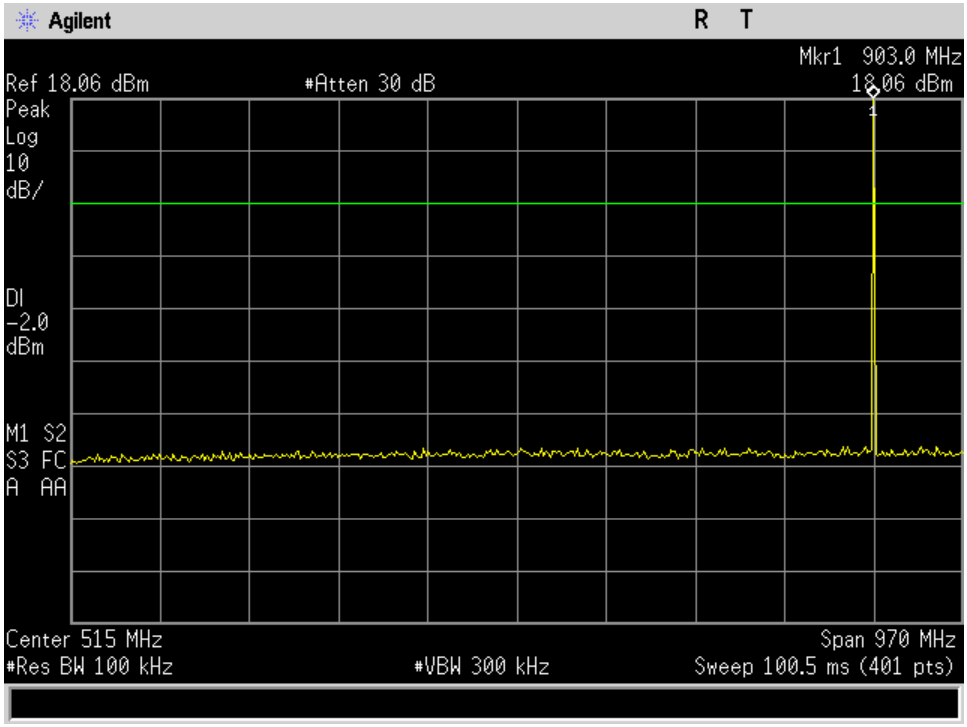

Figure 186. FCC_A_Low Ch_902.3MHz_200KHz_20dBc_30MHz-10GHz_Port 2

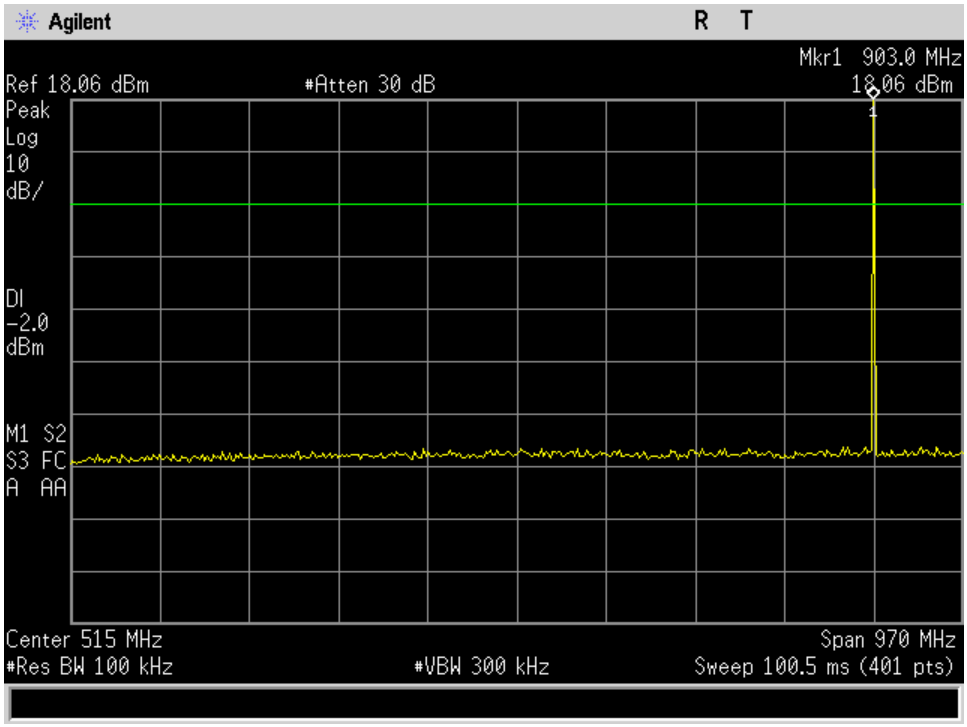

Figure 187. FCC_A_Low Ch_902.3MHz_200KHz_20dBc_Lower Band Edge_Port 2

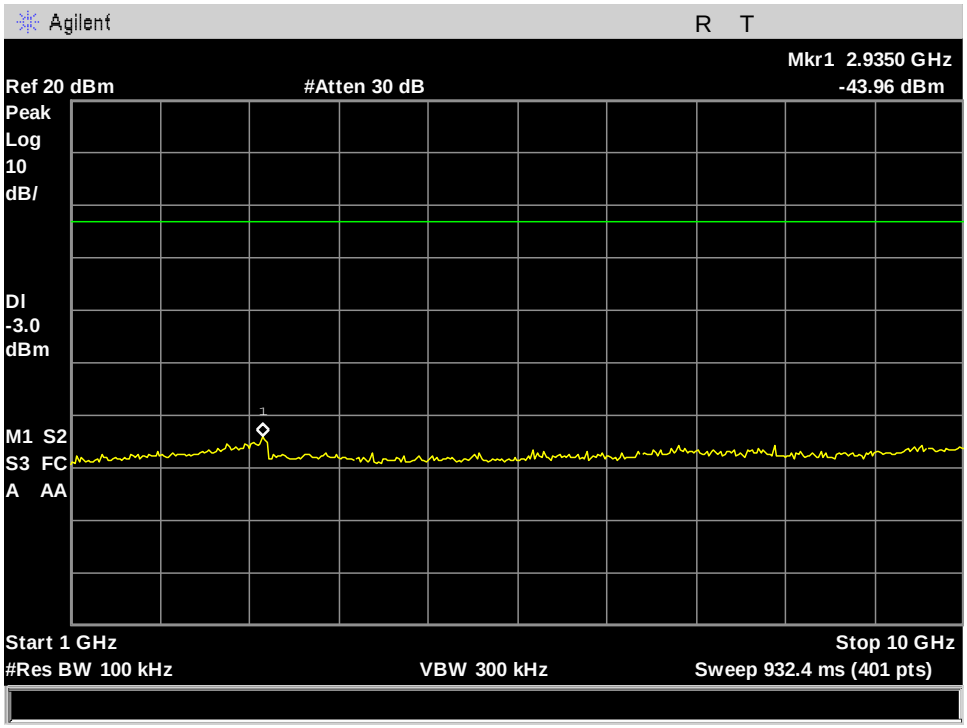

Figure 188. fcc_b 100kHz spurious emissions 1-10 GHz

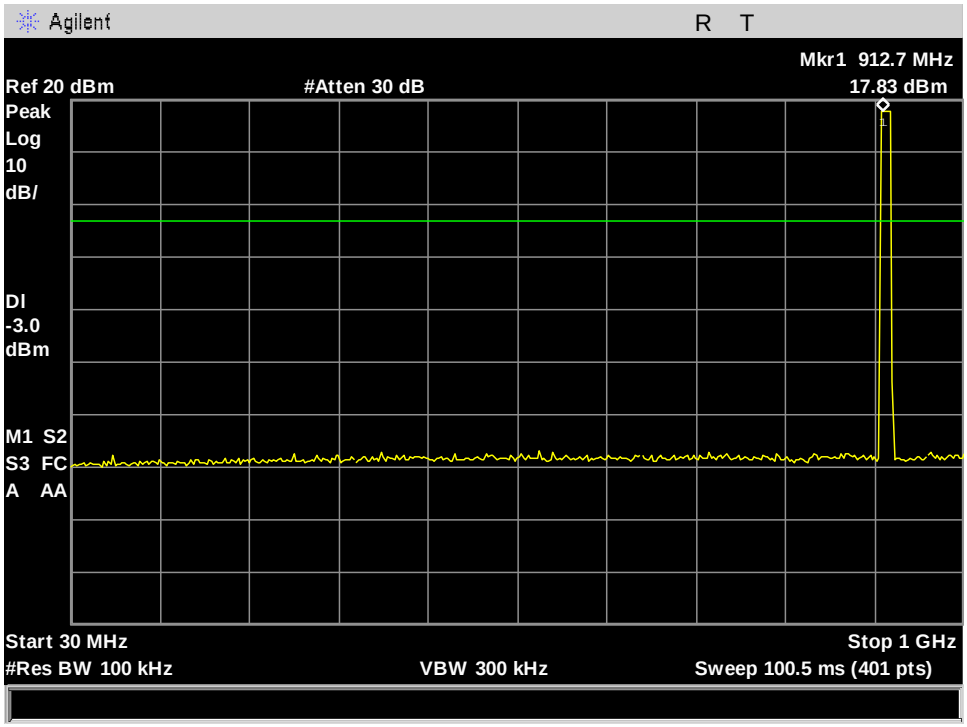

Figure 189. fcc_b 100kHz spurious emissions 30-1000 MHz

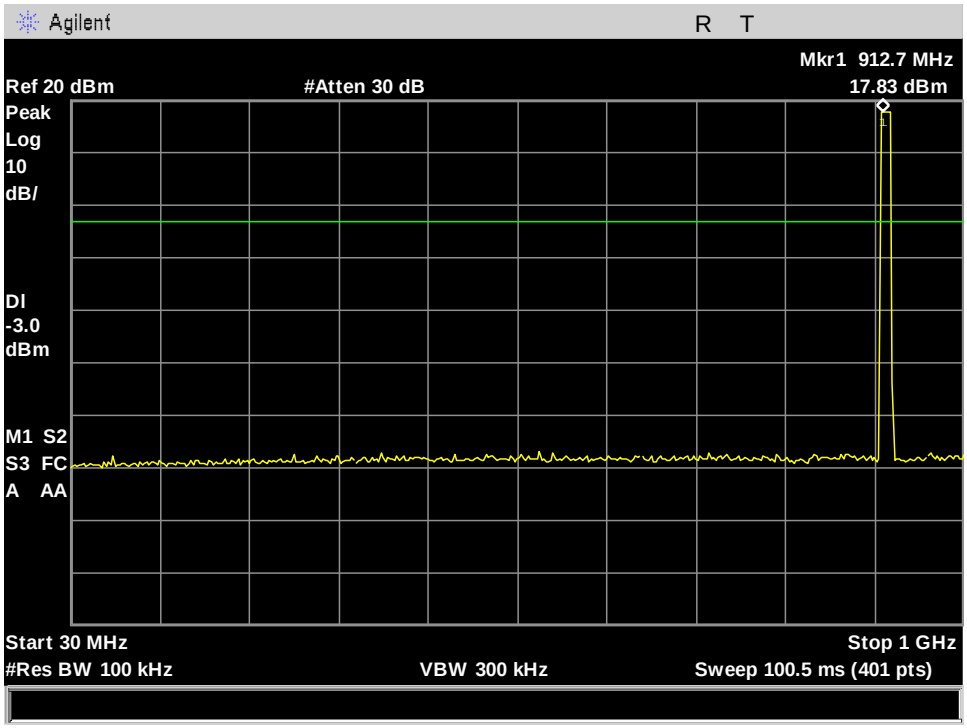

Figure 190. fcc_b 100kHz spurious emissions high band edge hopping

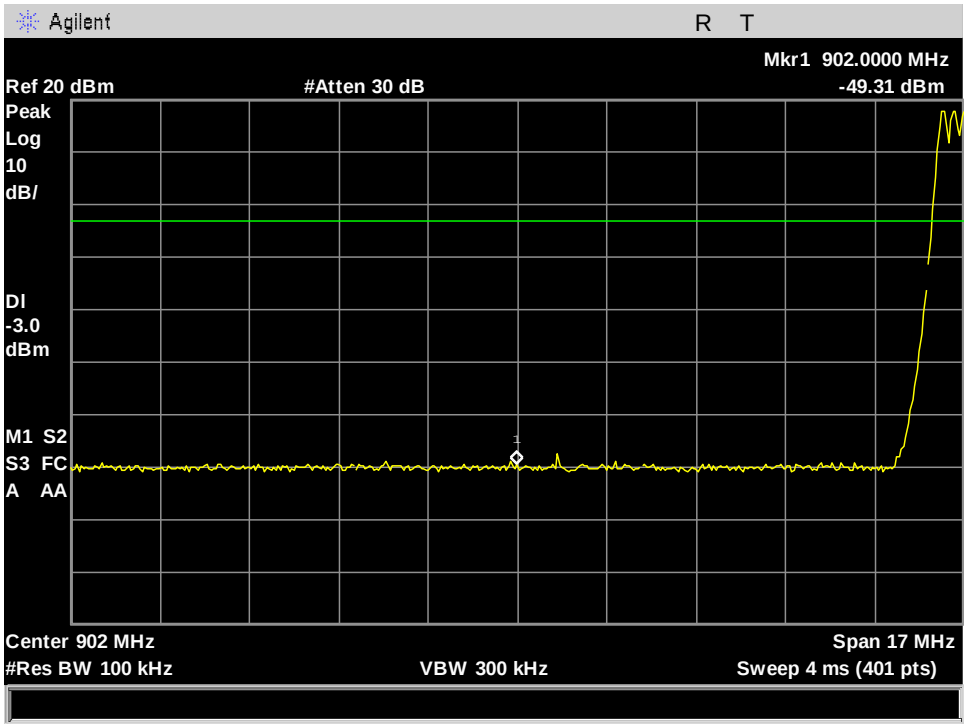

Figure 191. fcc_b 100kHz spurious emissions low band edge hopping

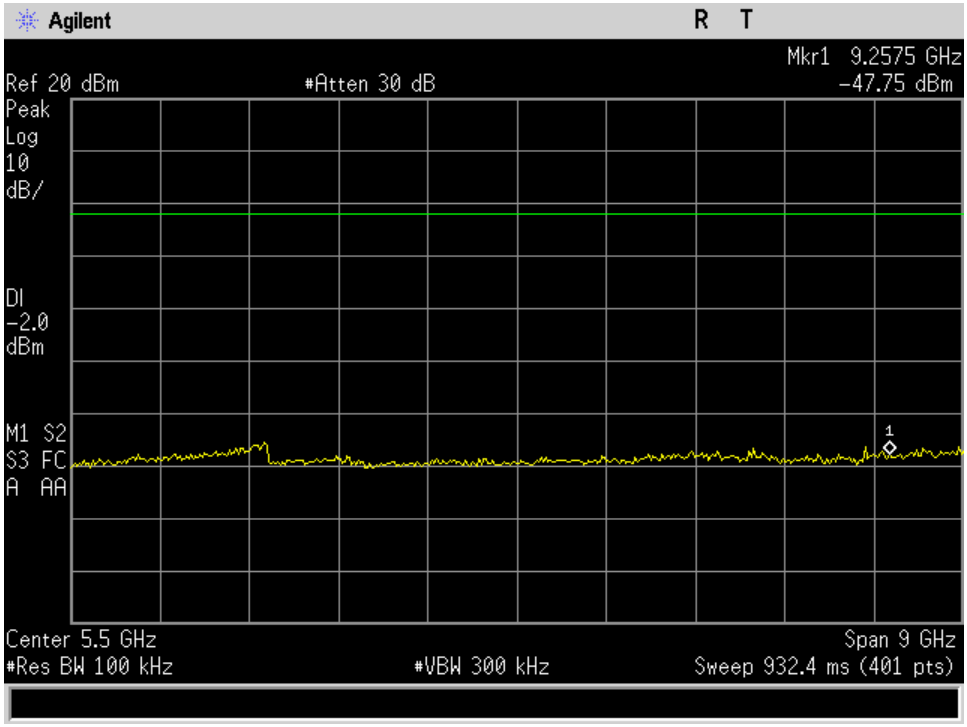

Figure 192. FCC_B_High Ch_919.9MHz_200KHz_20dBc_1-10GHz_Port 2

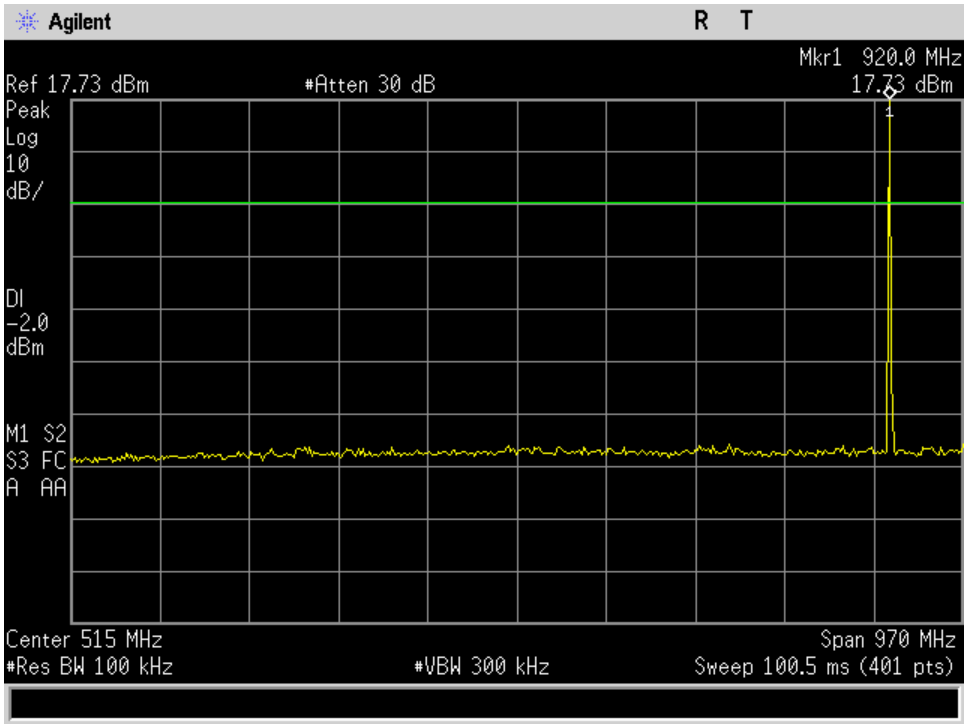

Figure 193. FCC_B_High Ch_919.9MHz_200KHz_20dBc_30MHz-1GHz_Port 2

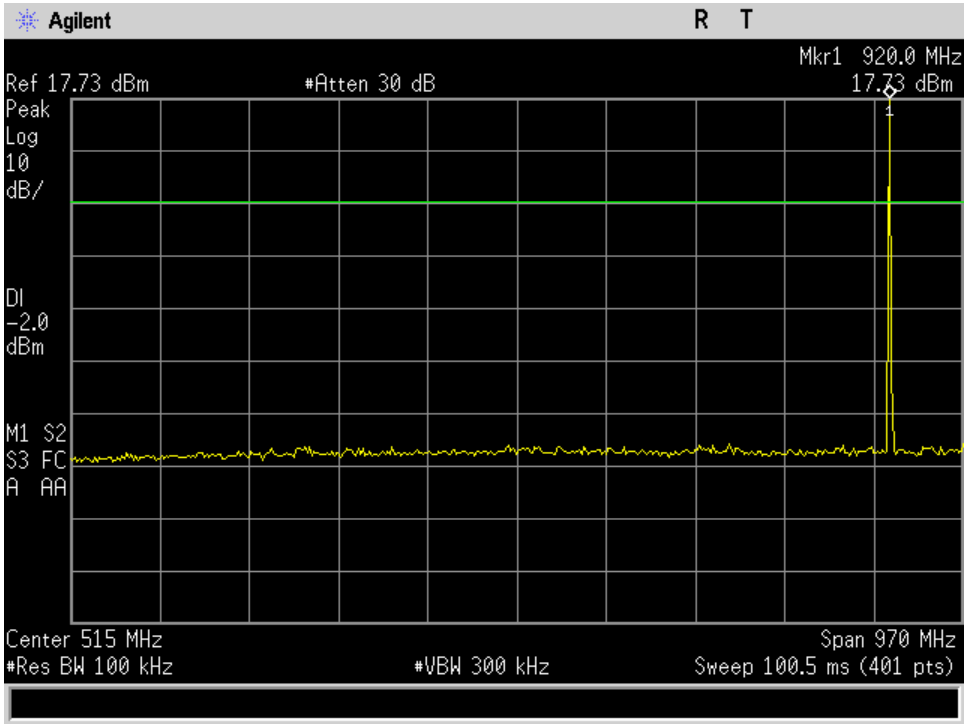

Figure 194. FCC_B_High Ch_919.9MHz_200KHz_20dBc_Upper Band Edge_Port 2

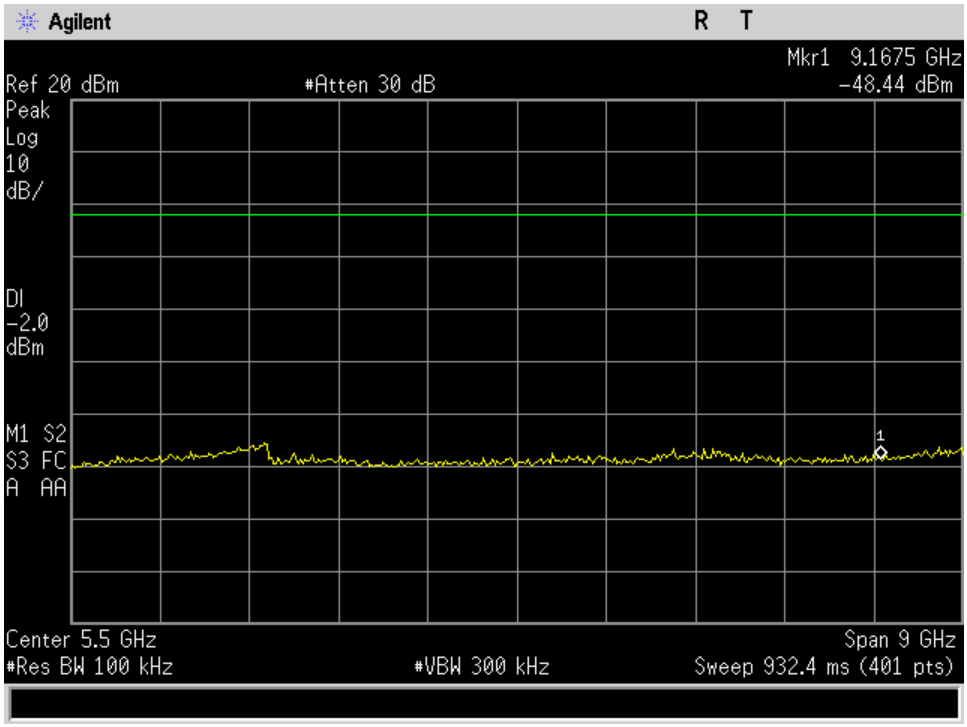

Figure 195. FCC_B_Low Ch_910.1MHz_200KHz_20dBc_1-10GHz_Port 2

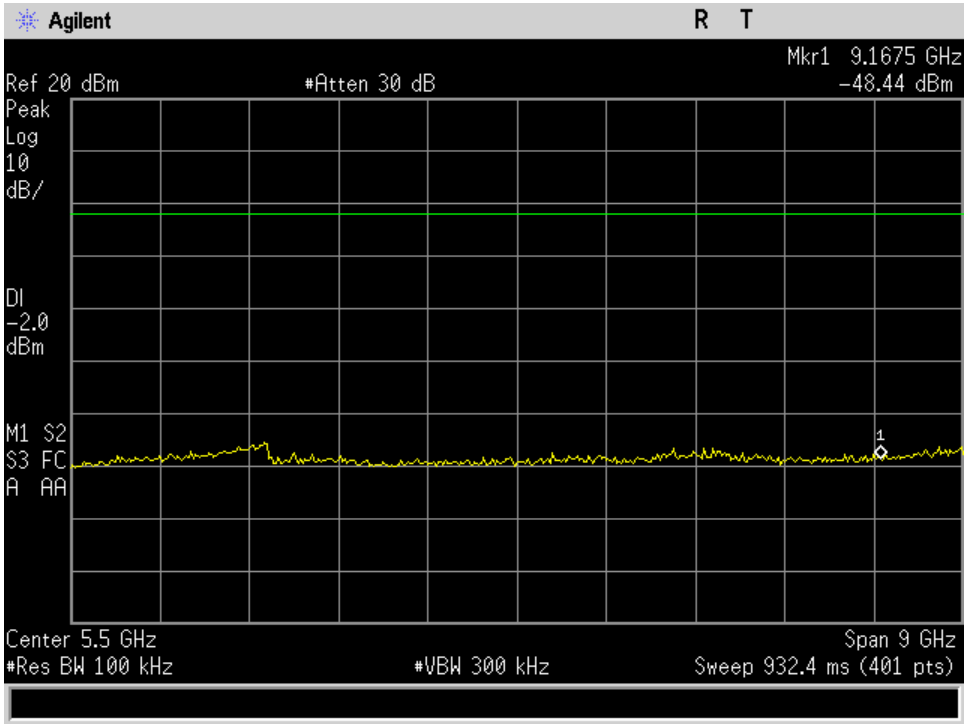

Figure 196. FCC_B_Low Ch_910.1MHz_200KHz_20dBc_30MHz-1GHz_Port 2

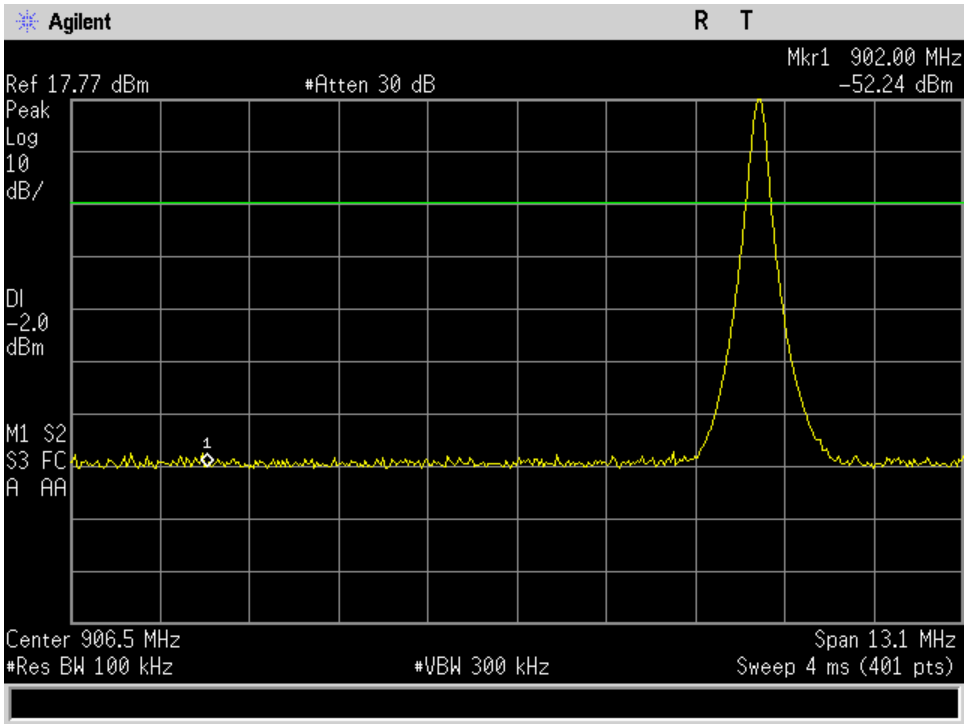

Figure 197. FCC_B_Low Ch_910.1MHz_200KHz_20dBc_Lower Band Edge_Port 2

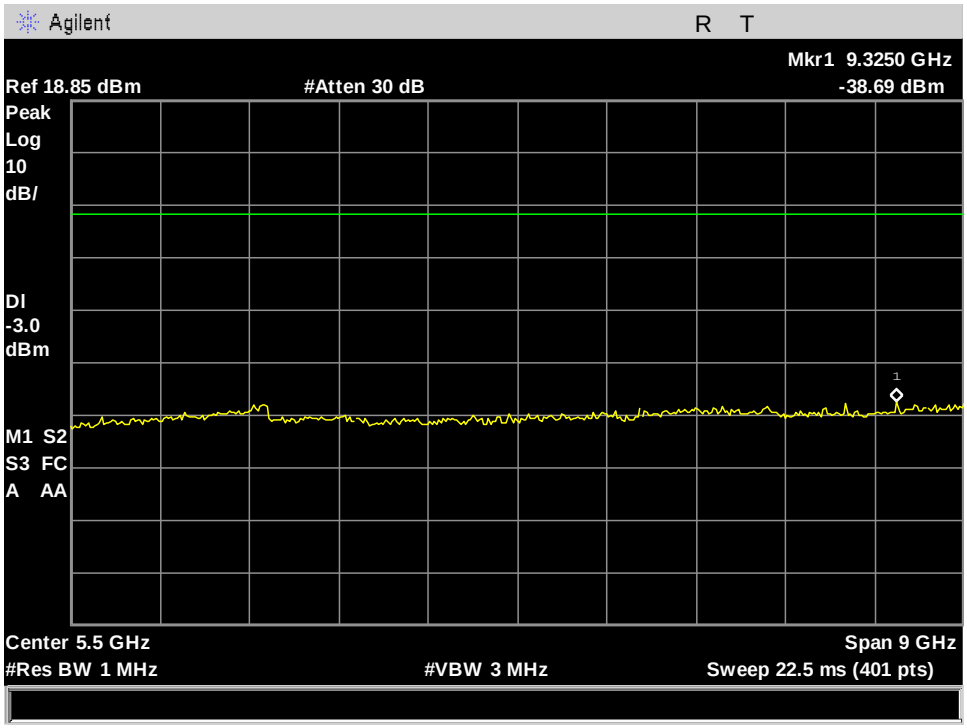

Figure 198. fcc_c 100kHz spurious emissions 1-10 GHz

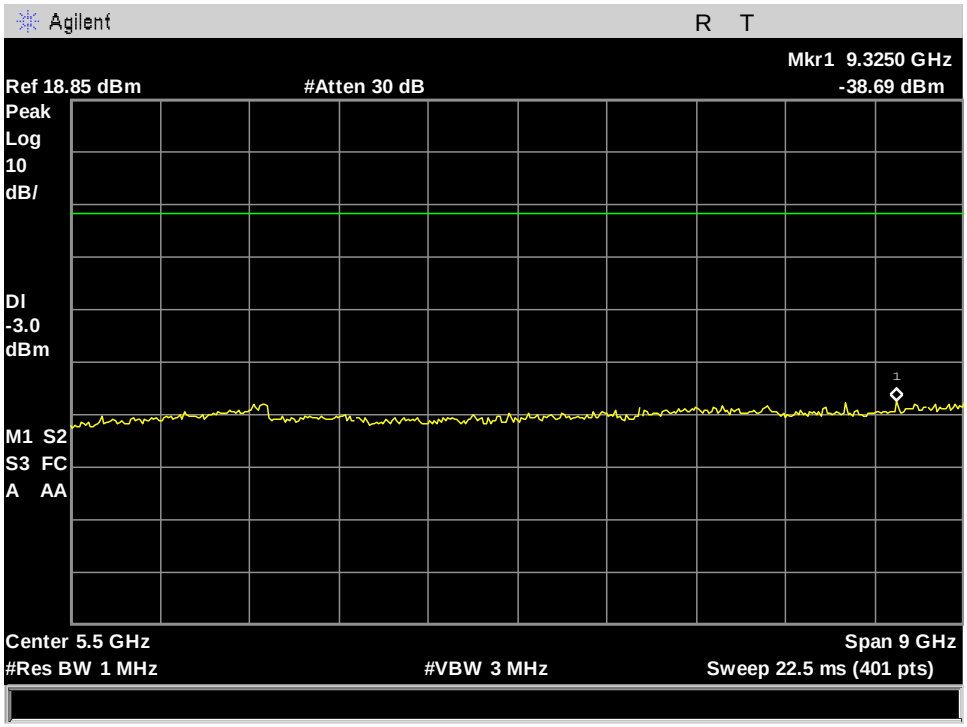

Figure 199. fcc_c 100kHz spurious emissions 30-1000 MHz

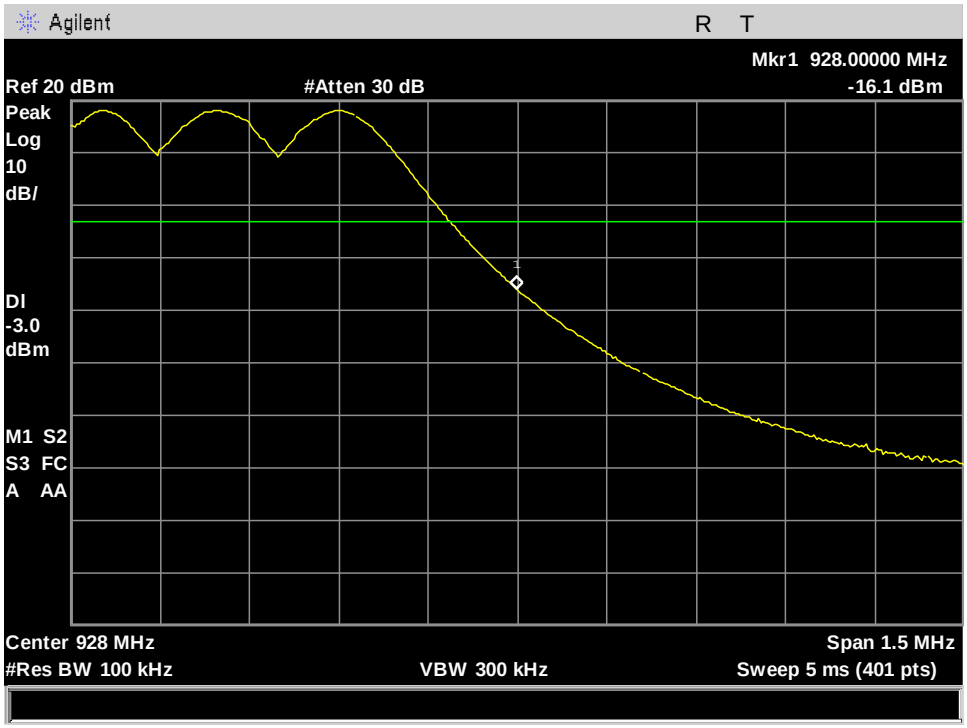

Figure 200. fcc_c 100kHz spurious emissions high band edge hopping

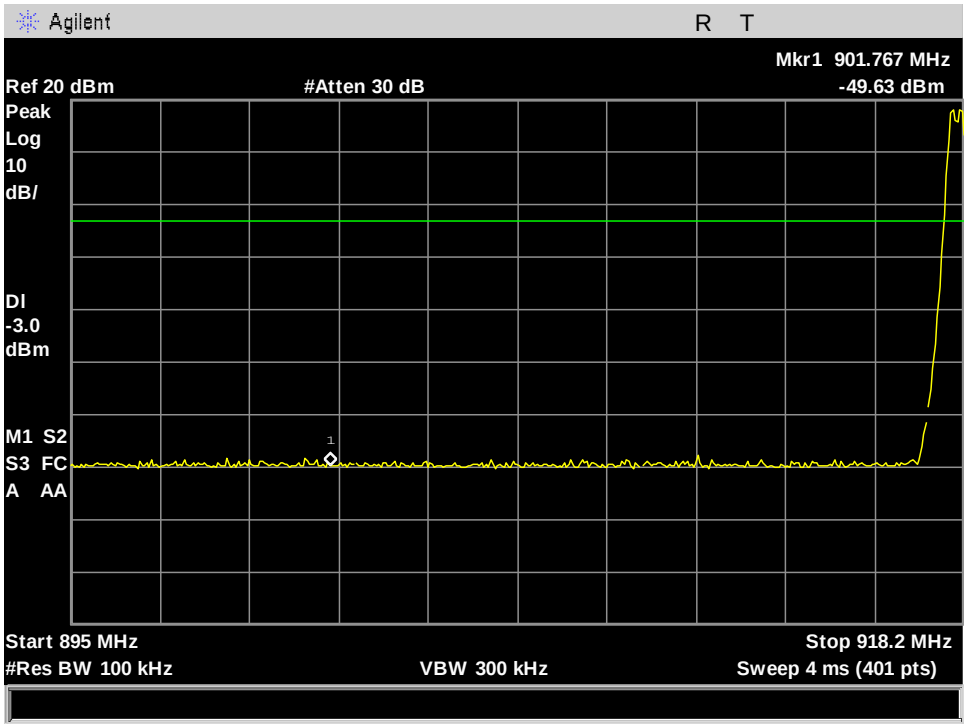

Figure 201. fcc_c 100kHz spurious emissions low band edge hopping

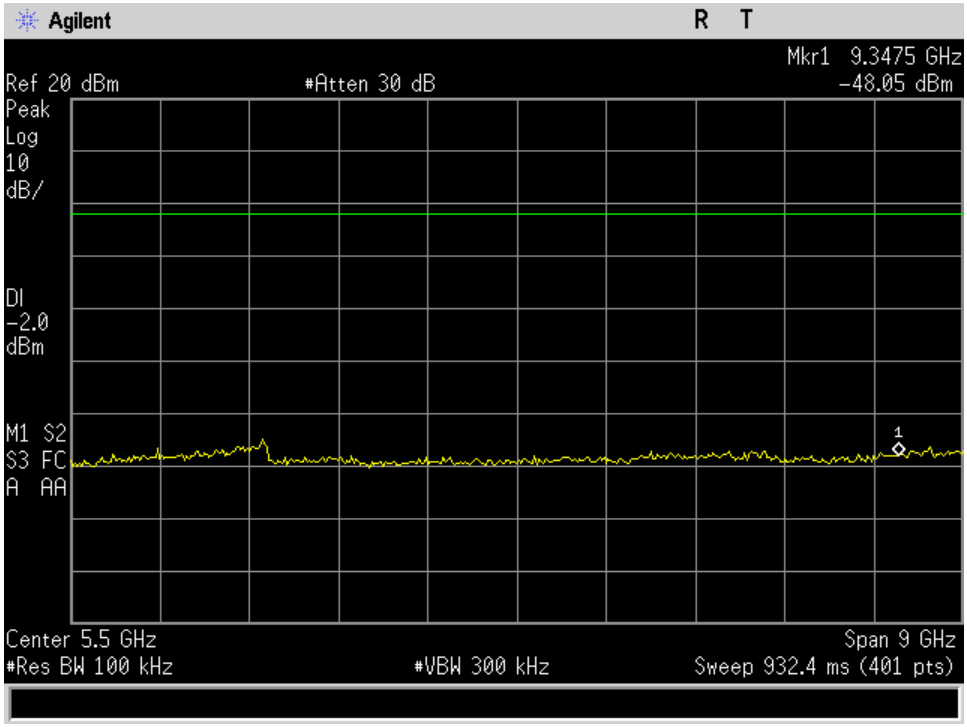

Figure 202. FCC_C_High Ch_927.7MHz_200KHz_20dBc_1-10GHz_Port 2

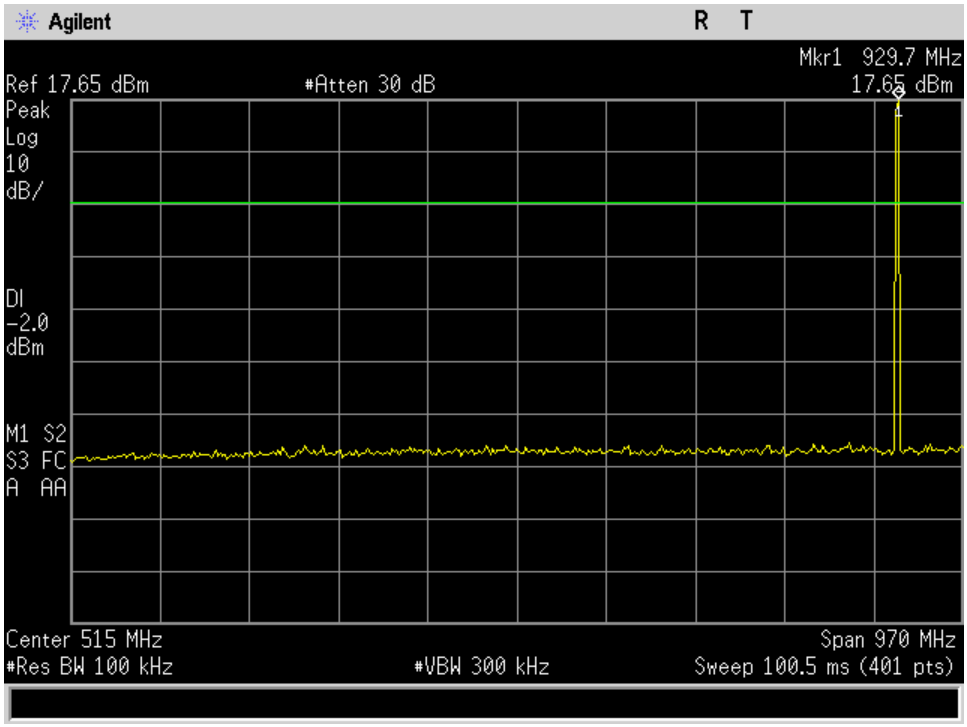

Figure 203. FCC_C_High Ch_927.7MHz_200KHz_20dBc_30MHz-1GHz_Port 2

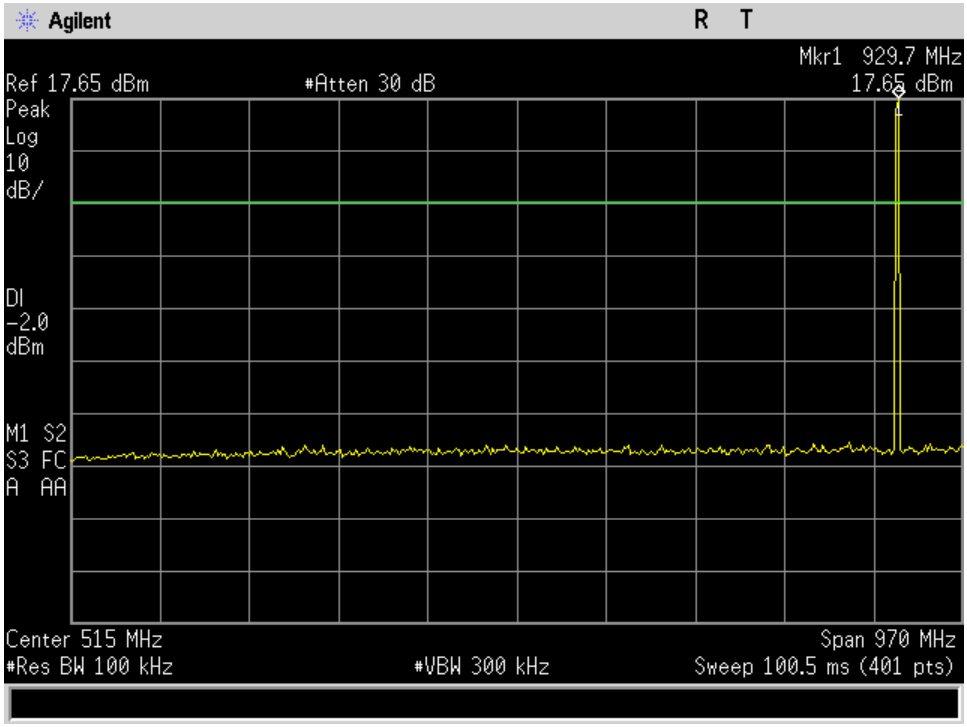

Figure 204. FCC_C_High Ch_927.7MHz_200KHz_20dBc_Upper Band Edge_Port 2

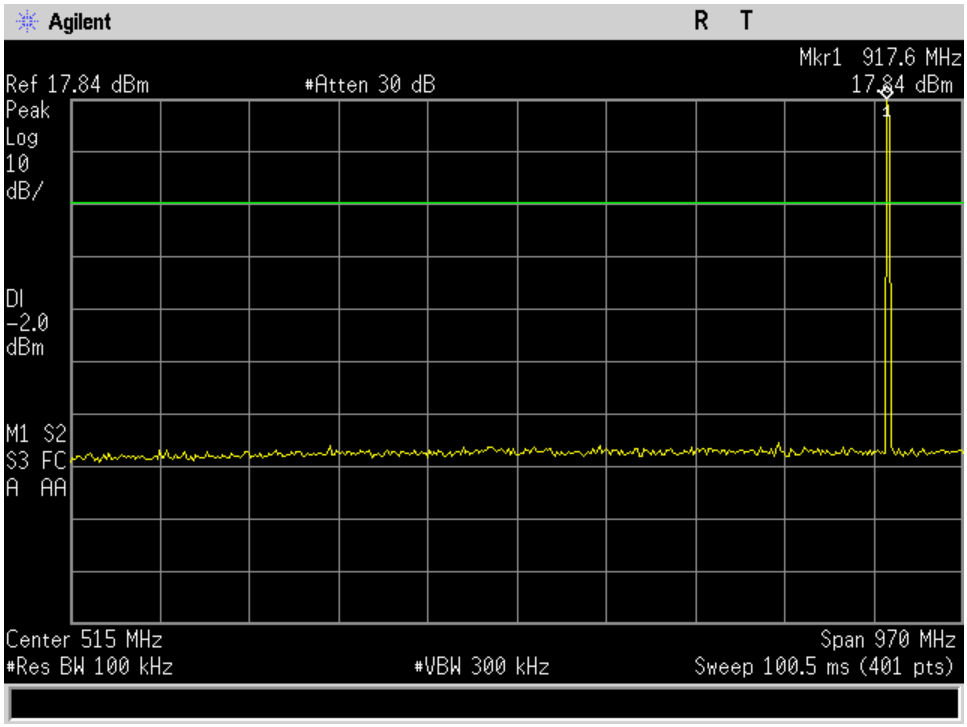

Figure 205. FCC_C_Low Ch_917.9MHz_200KHz_20dBc_30MHz-1GHz_Port 2

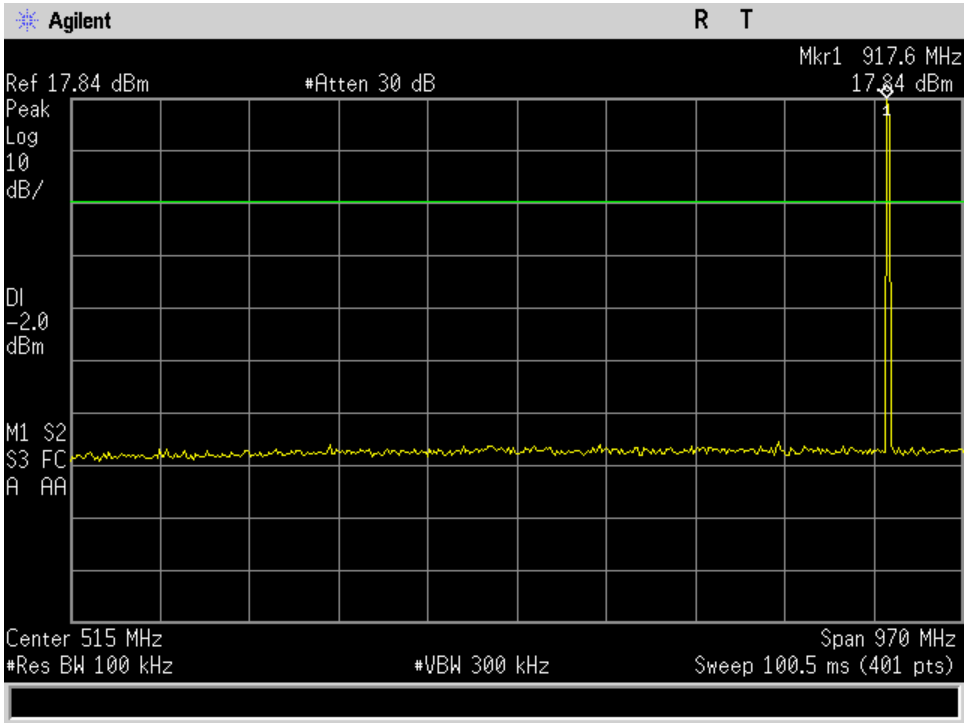

Figure 206. FCC_C_Low Ch_917.9MHz_200KHz_20dBc_Lower Band Edge_Port 2

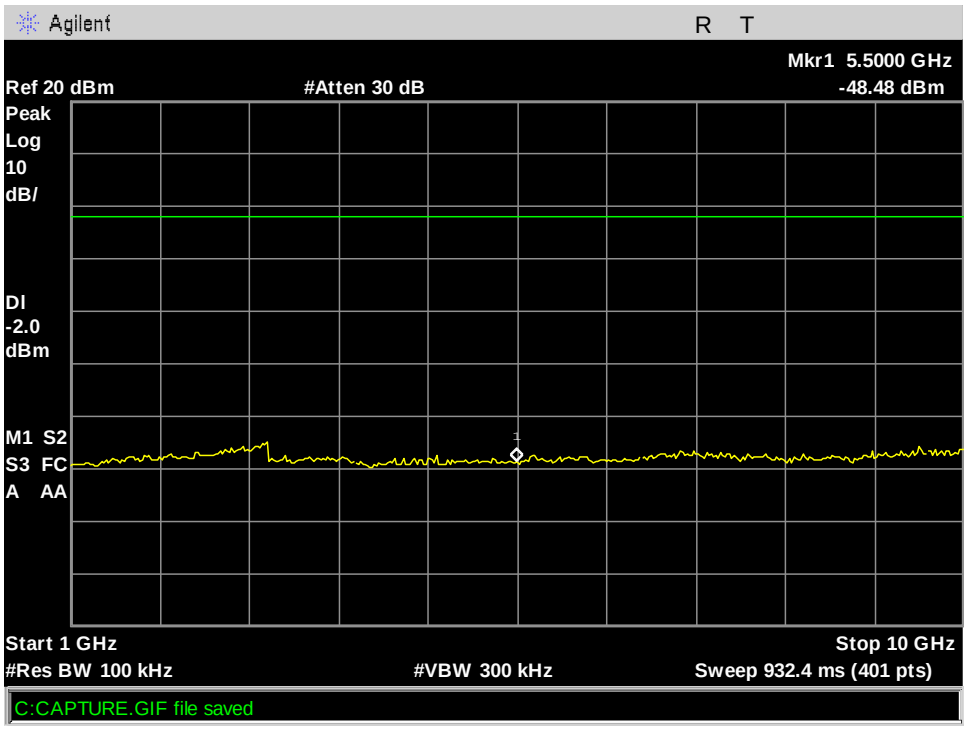

Figure 207. fcc_dense 100kHz spurious emissions 1-10 GHz

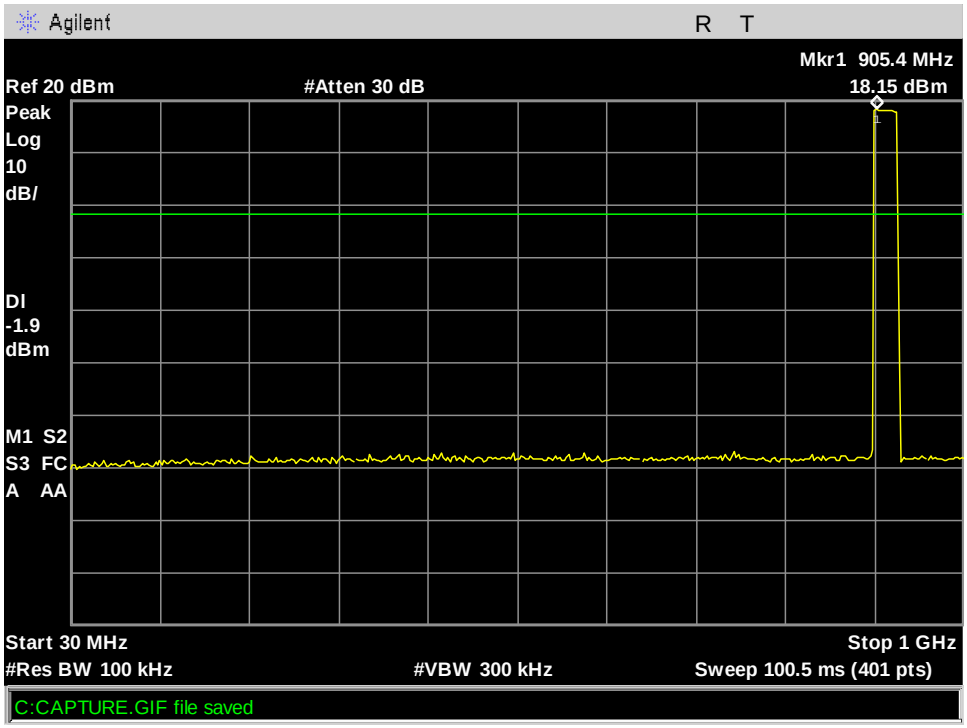

Figure 208. fcc_dense 100kHz spurious emissions 30-1000 MHz

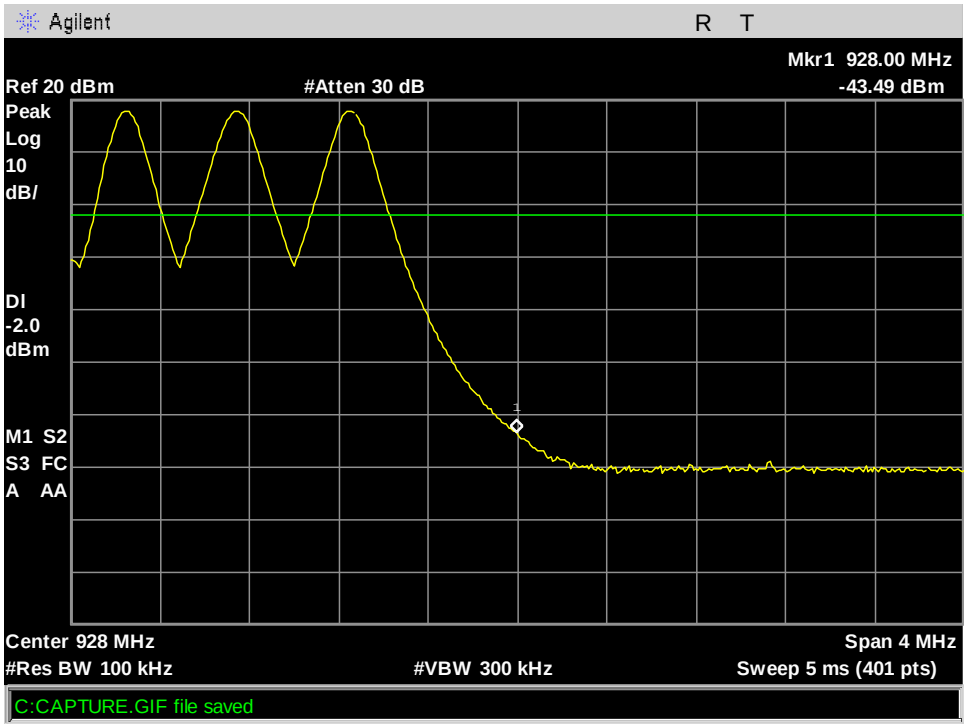

Figure 209. fcc_dense 100kHz spurious emissions high band edge hopping

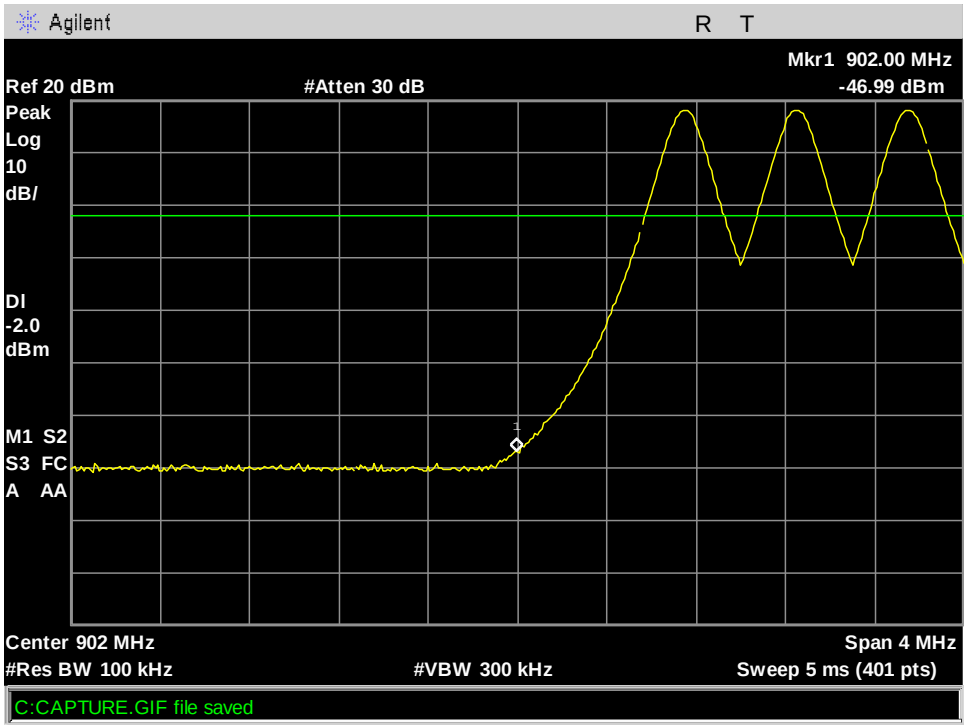

Figure 210. fcc_dense 100kHz spurious emissions low band edge hopping

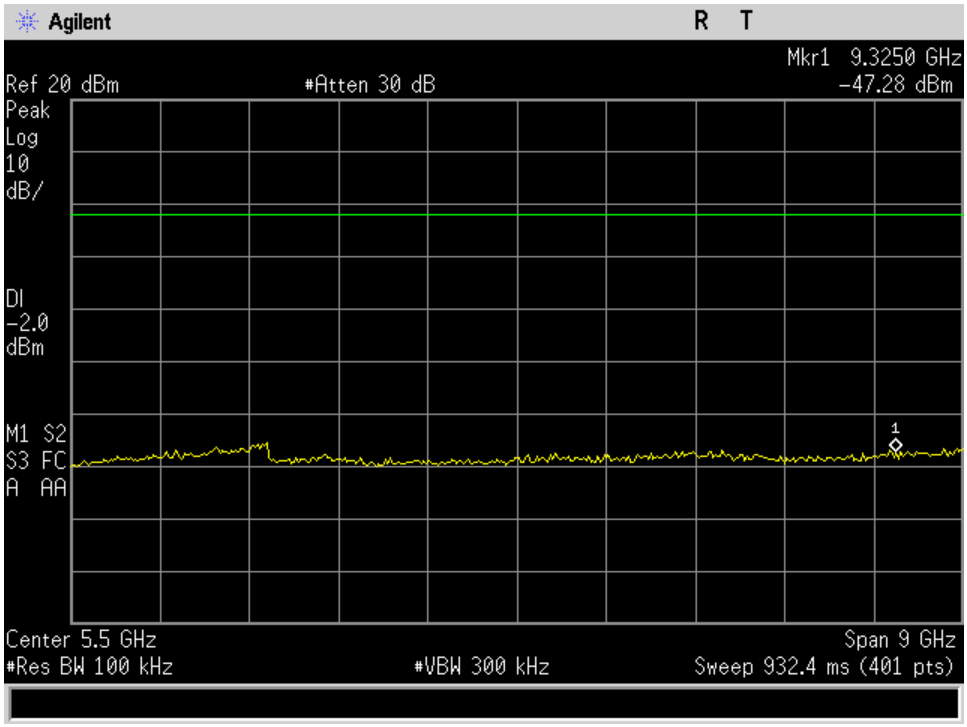

Figure 211. FCC_Dense_High Ch_927.25MHz_500KHz_20dBc_1-10GHz_Port 2

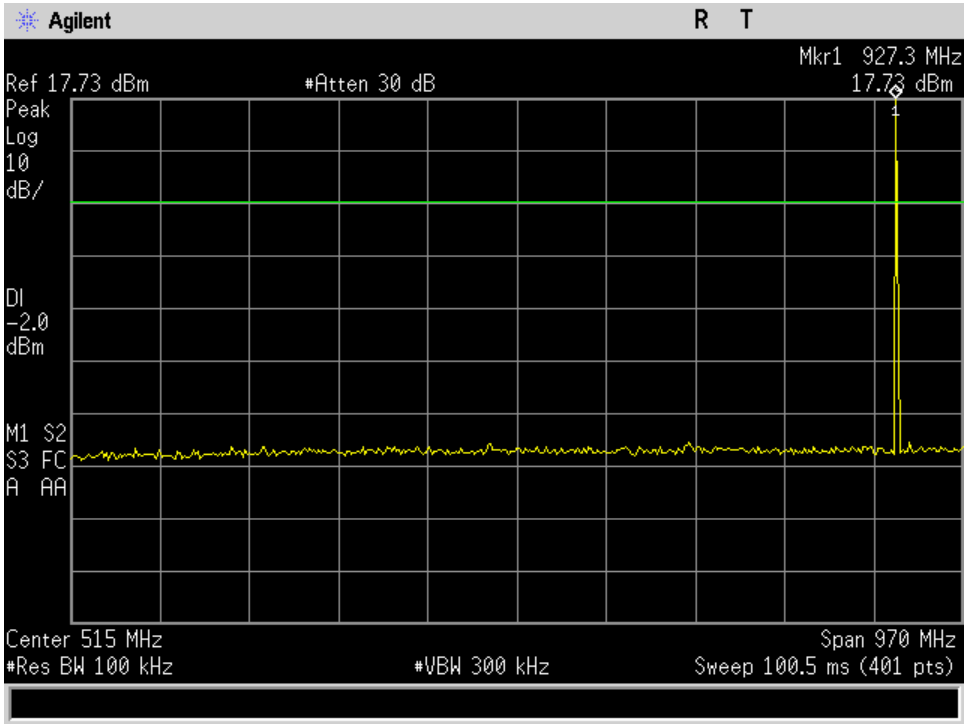

Figure 212. FCC_Dense_High Ch_927.25MHz_500KHz_20dBc_30MHz-10GHz_Port 2

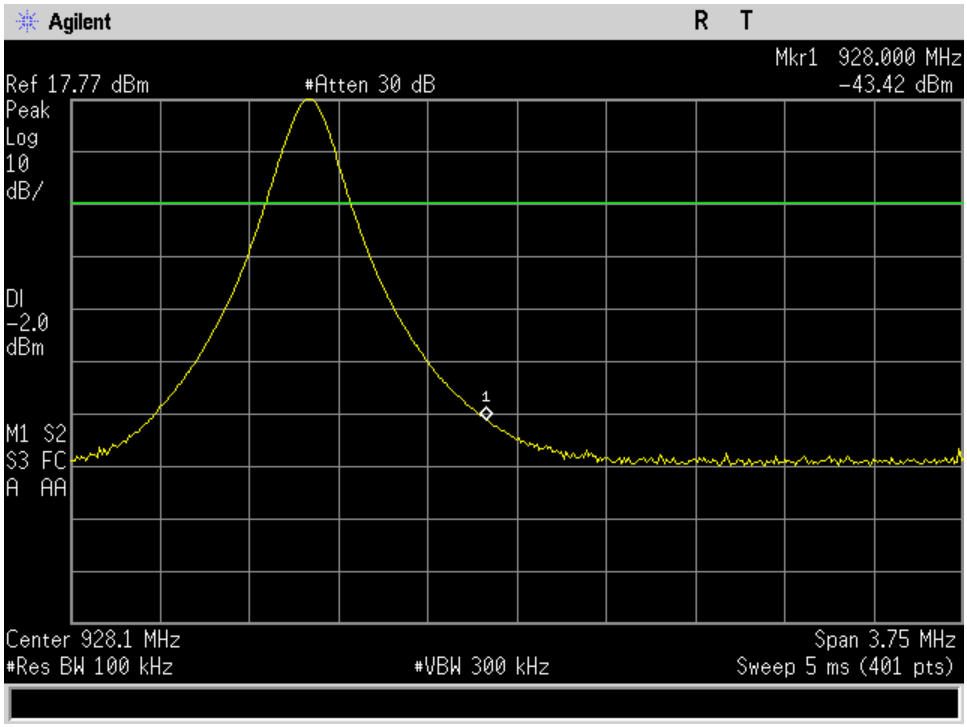

Figure 213. FCC_Dense_High Ch_927.25MHz_500KHz_20dBc_Upper Band Edge_Port 2

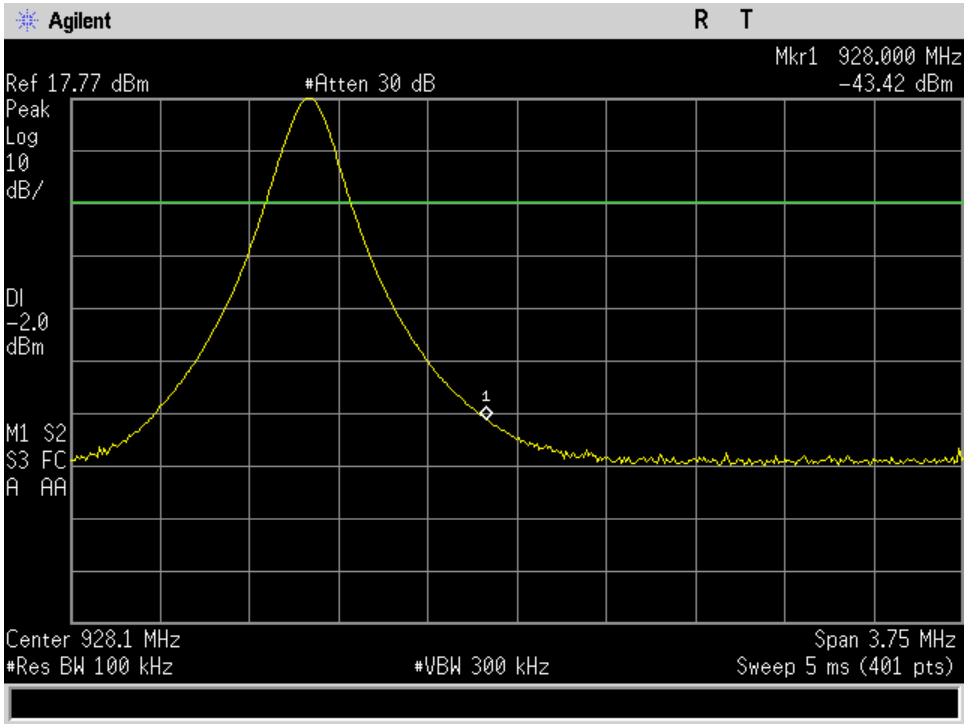

Figure 214. FCC_Dense_Low Ch_902.75MHz_500KHz_20dBc_1-10GHz_Port 2

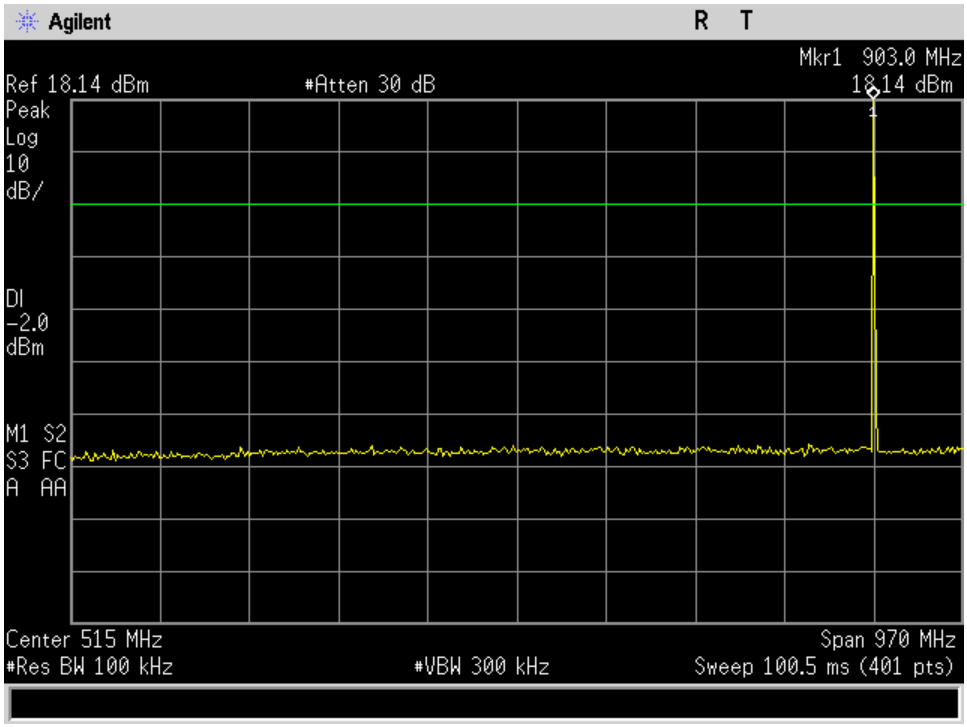

Figure 215. FCC_Dense_Low Ch_902.75MHz_500KHz_20dBc_30MHz-10GHz_Port 2

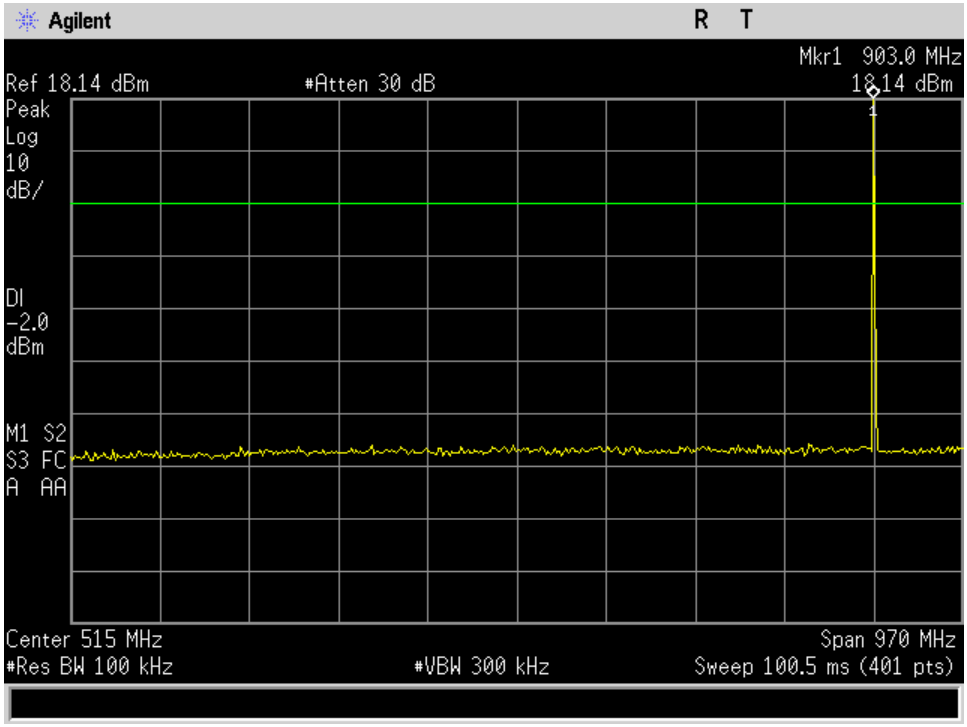

Figure 216. FCC_Dense_Low Ch_902.75MHz_500KHz_20dBc_Lower Band Edge_Port 2

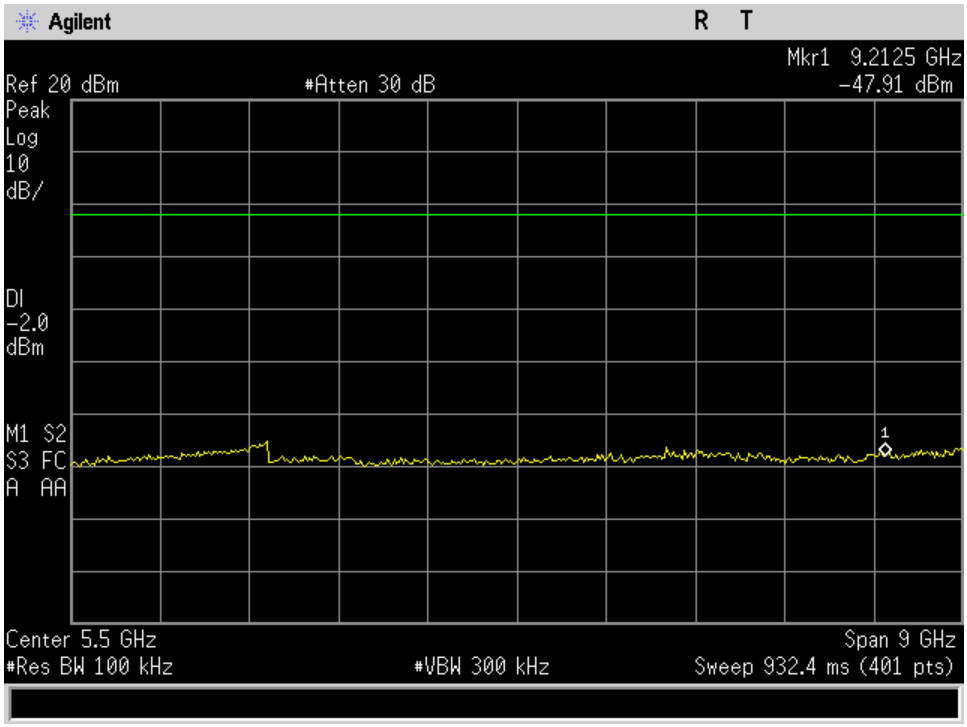

Figure 217. FCC_Dense_Mid Ch_915.0MHz_500KHz_20dBc_1-10GHz_Port 2

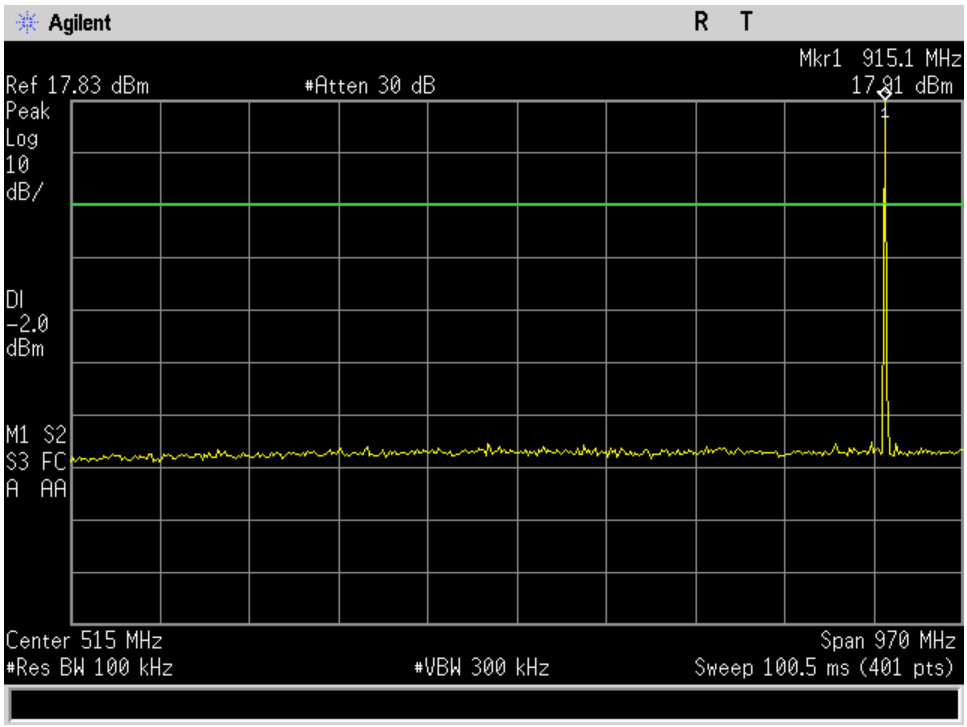

Figure 218. FCC_Dense_Mid Ch_915.0MHz_500KHz_20dBc_30MHz-10GHz_Port 2

Title 47 of the CFR, Part 15 §15.247(i) Maximum Permissible Exposure (MPE)

*No appendix data,

