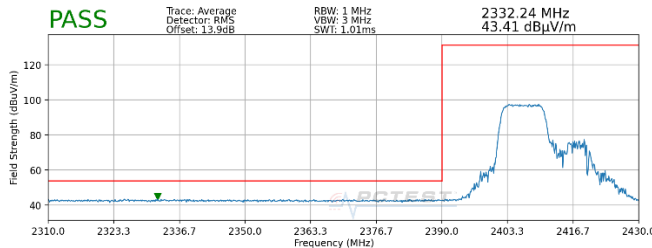


7.7.3 SISO Antenna-2 Radiated Restricted Band Edge Measurements

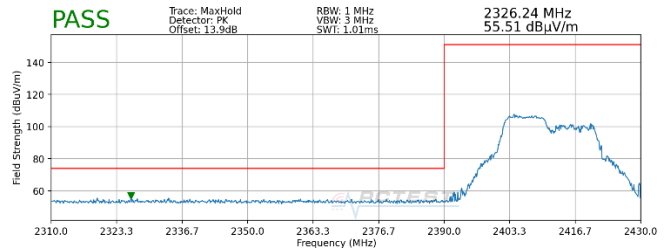
§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

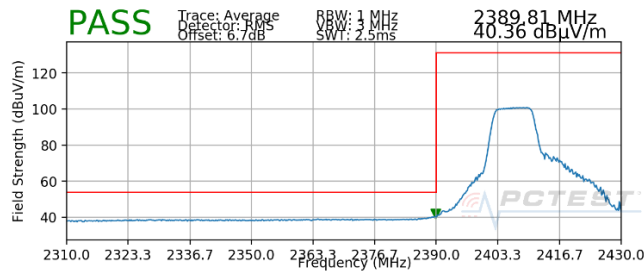
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



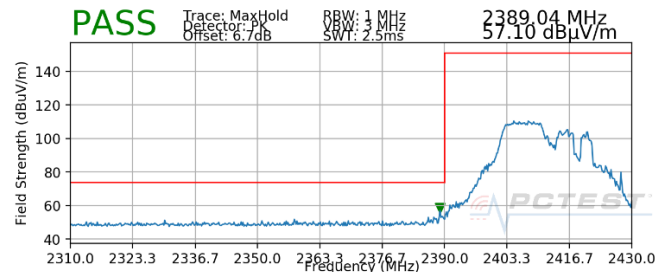
Plot 7-153. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 106 Tones) - Q



Plot 7-154. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 106 Tones) - Q



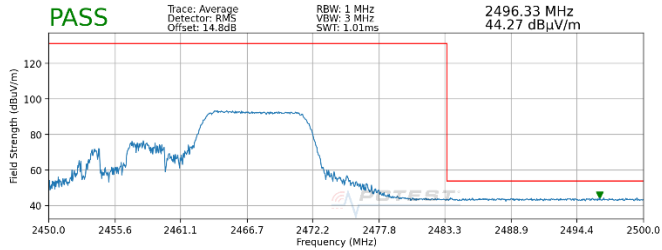
Plot 7-155. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 106 Tones) - N



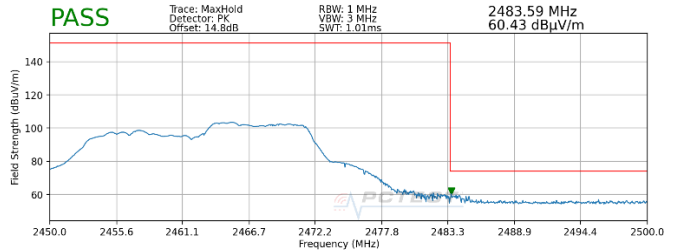
Plot 7-156. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 106 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 113 of 129

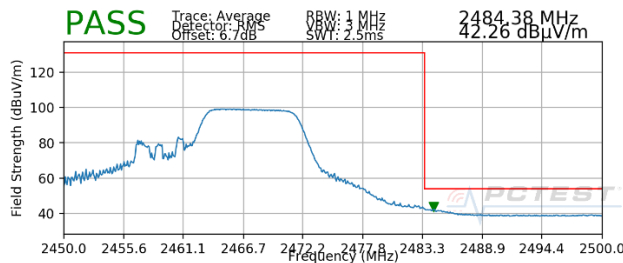
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



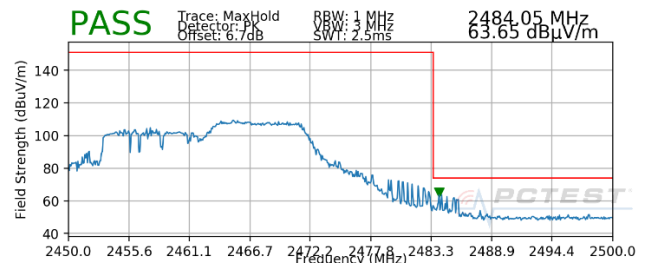
Plot 7-157. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones) - Q



Plot 7-158. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones) - Q



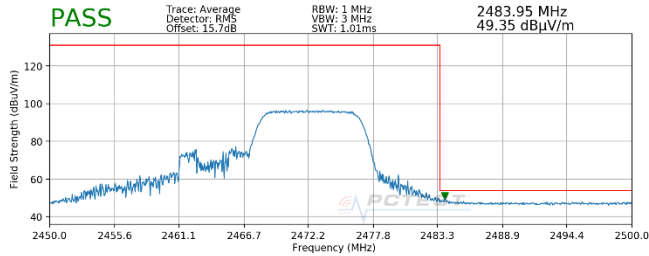
Plot 7-159. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones) - N



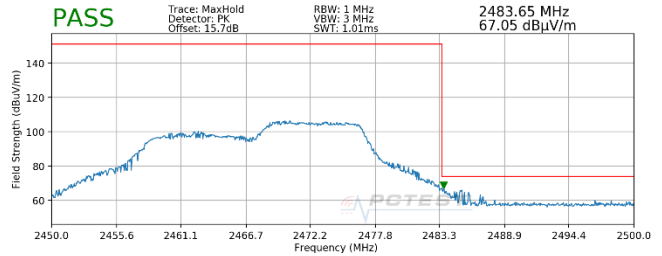
Plot 7-160. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 114 of 129

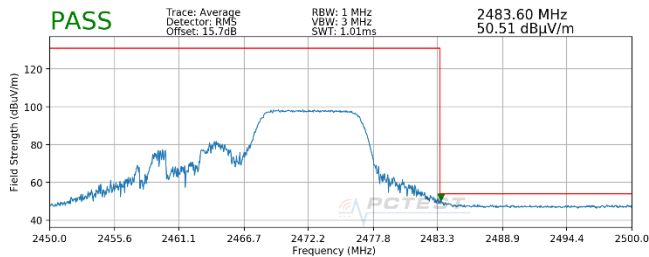
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



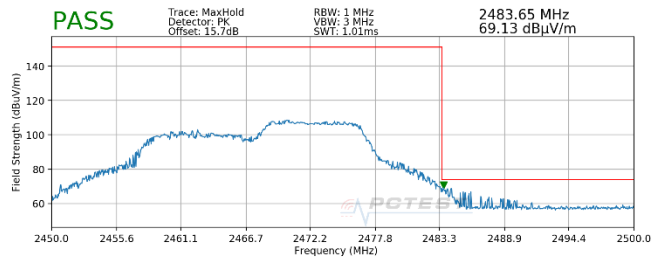
Plot 7-161. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones) - Q



Plot 7-162. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones) - Q



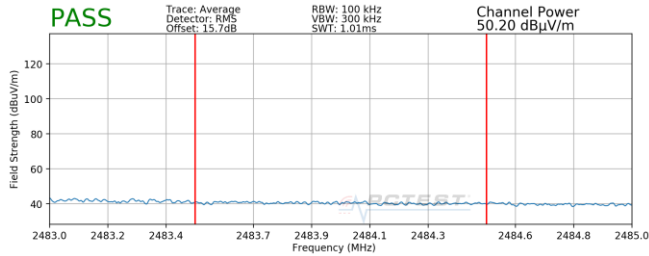
Plot 7-163. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones) - N



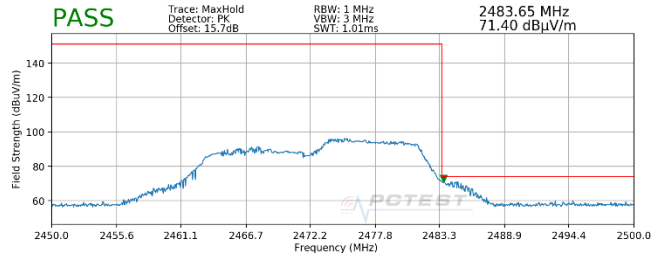
Plot 7-164. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 115 of 129

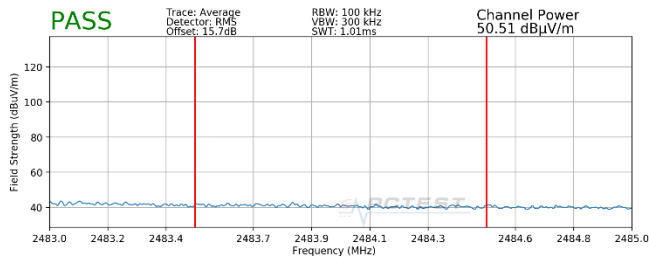
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



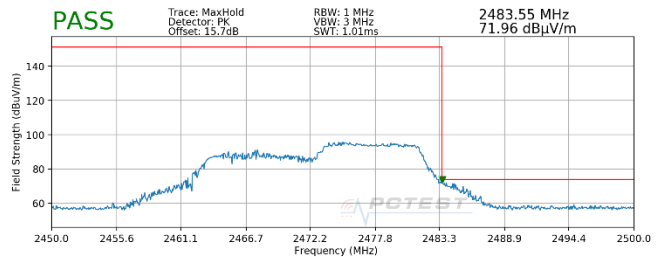
Plot 7-165. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones) - Q



Plot 7-166. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones) - Q



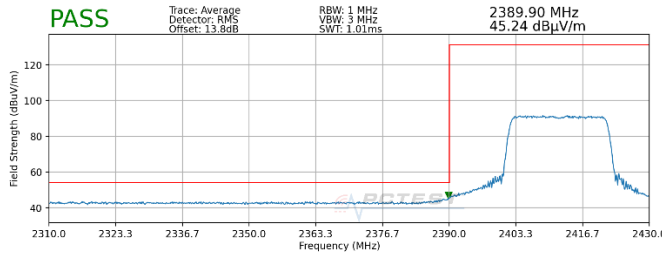
Plot 7-167. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones) - N



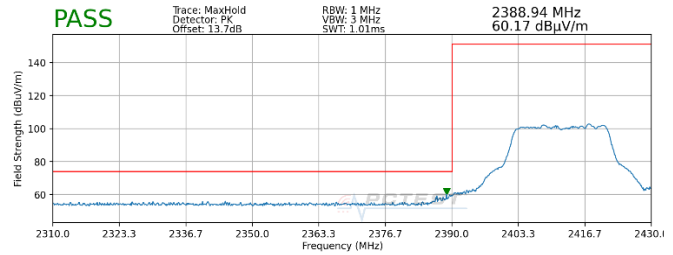
Plot 7-168. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones) - N

FCC ID: A3LSMF711B	 <p>PCTEST® Proud to be part of element</p>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset	Page 116 of 129	

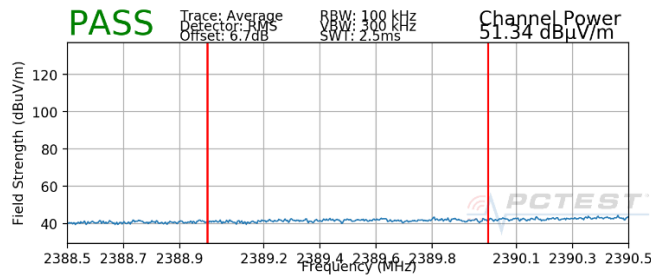
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



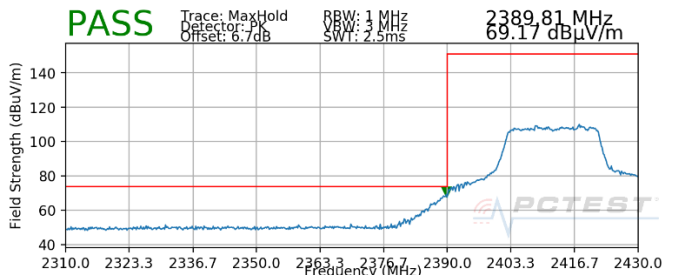
Plot 7-169. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 242 Tones) - Q



Plot 7-170. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 242 Tones) - Q



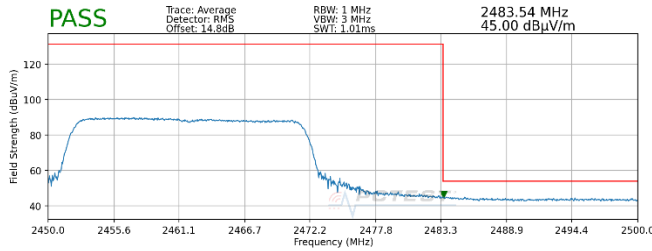
Plot 7-171. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 242 Tones) - N



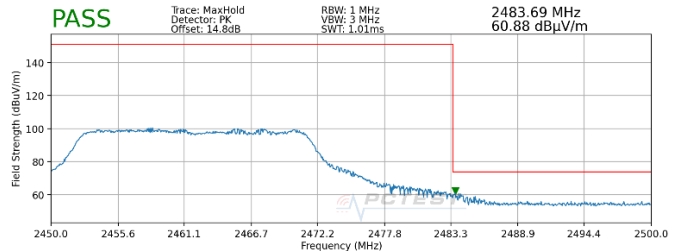
Plot 7-172. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 242 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 117 of 129

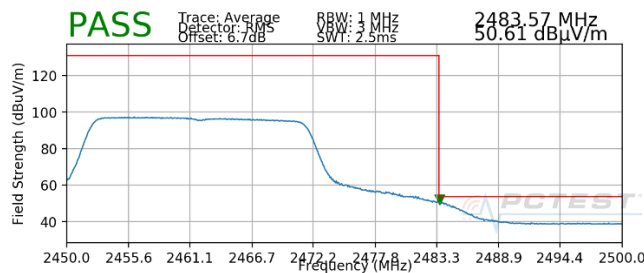
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



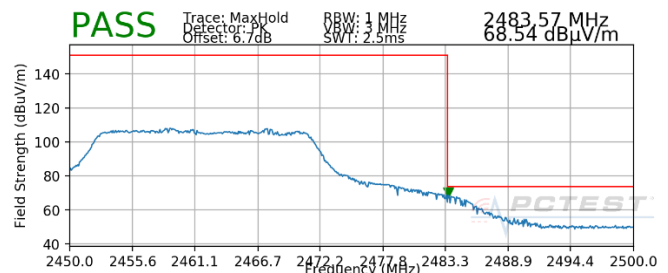
Plot 7-173. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones) - Q



Plot 7-174. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones) - Q



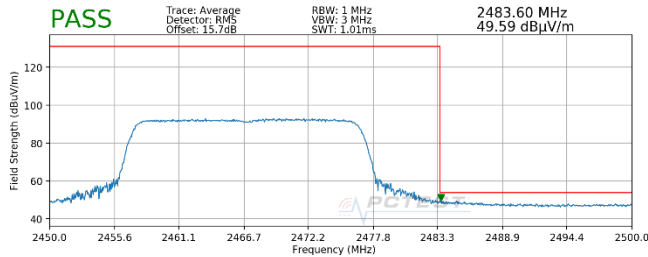
Plot 7-175. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones) - N



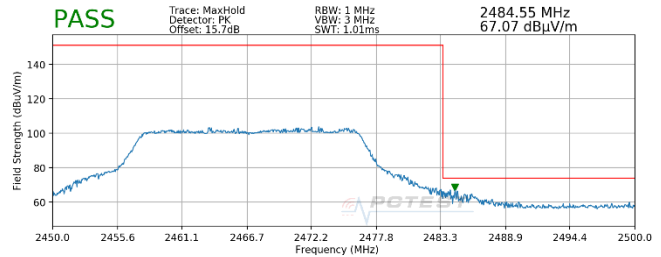
Plot 7-176. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 118 of 129

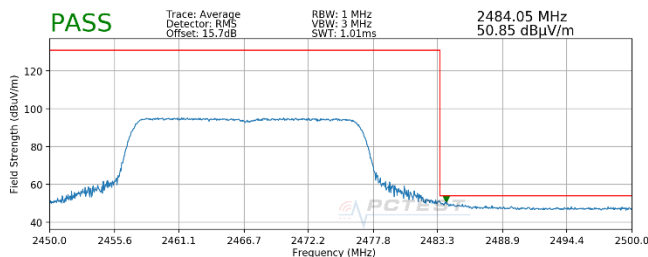
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2467MHz
Channel:	12



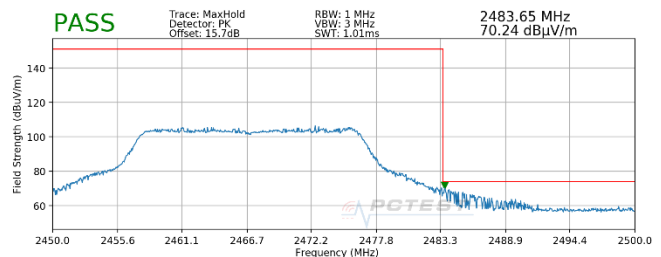
Plot 7-177. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones) - Q



Plot 7-178. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones) - Q



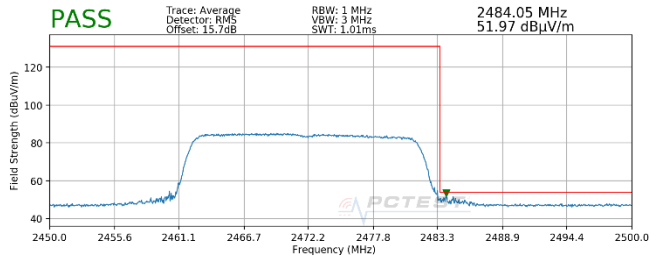
Plot 7-179. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones) - N



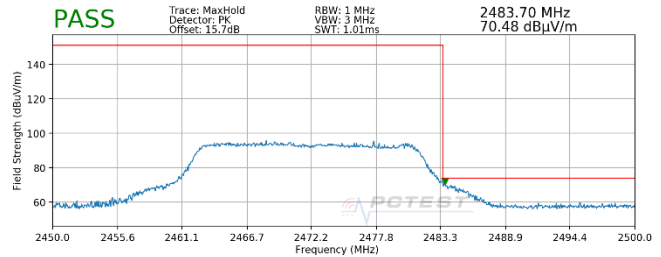
Plot 7-180. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones) – N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 119 of 129

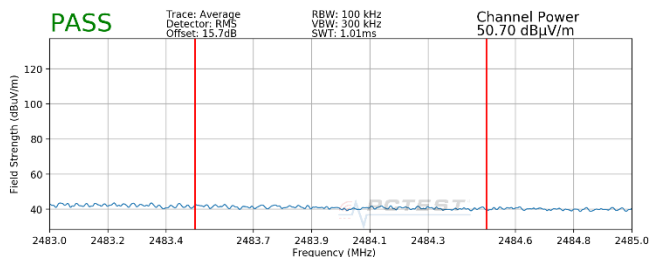
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2472MHz
Channel:	13



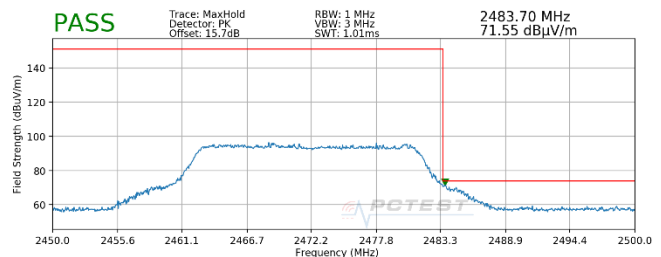
Plot 7-181. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones) - Q



Plot 7-182. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones) - Q



Plot 7-183. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones) - N



Plot 7-184. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones) - N

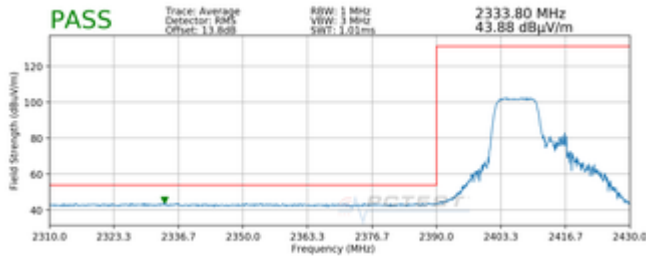
FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 120 of 129

7.7.4 MIMO Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

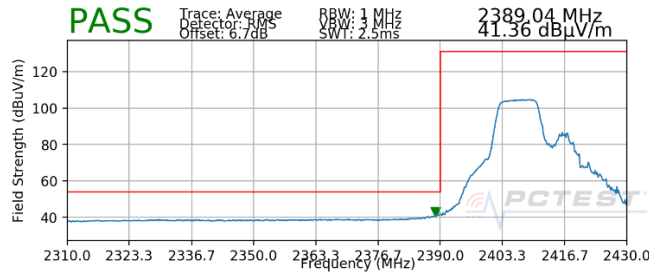
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



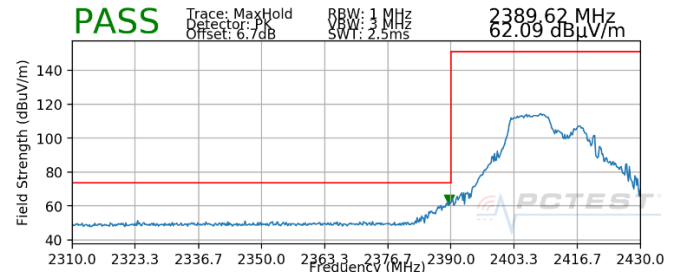
Plot 7-185. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones) - Q



Plot 7-186. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones) - Q



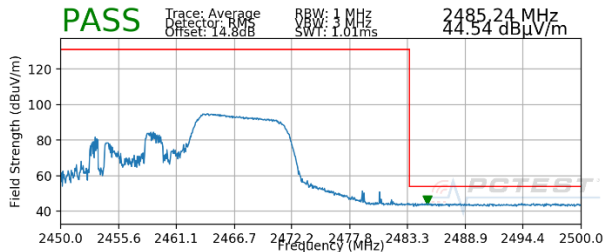
Plot 7-187. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones) - N



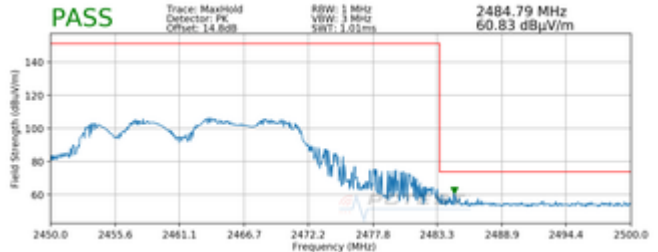
Plot 7-188. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 121 of 129

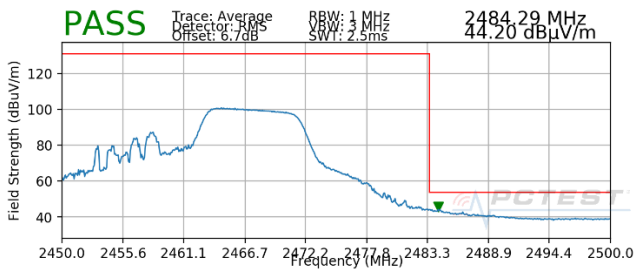
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



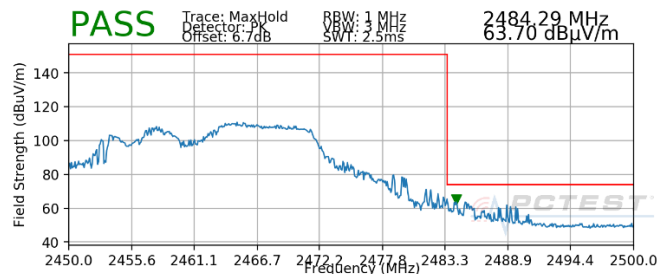
Plot 7-189. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones) - Q



Plot 7-190. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones) - Q



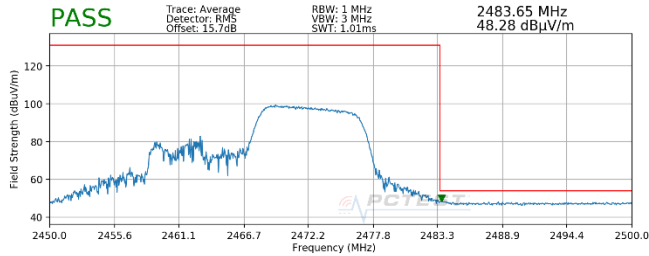
Plot 7-191. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones) - N



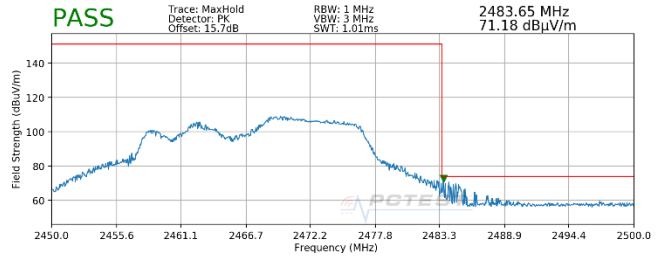
Plot 7-192. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 122 of 129

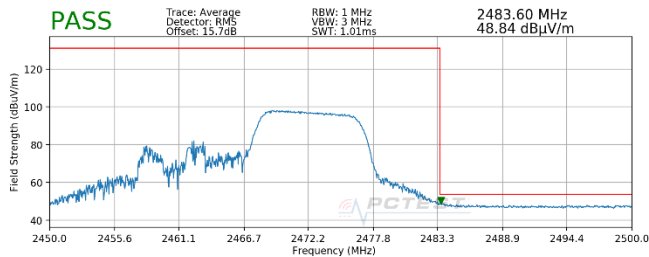
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



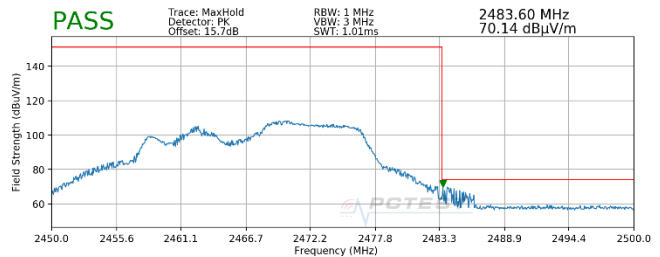
Plot 7-193. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones) - Q



Plot 7-194. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones) - Q



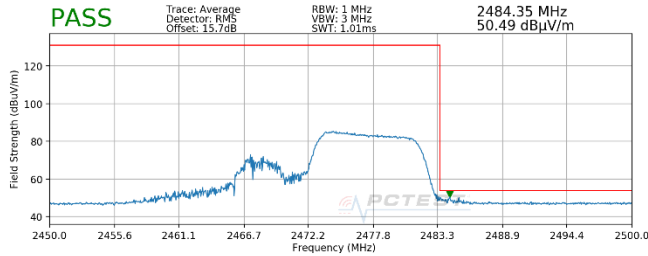
Plot 7-195. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones) - N



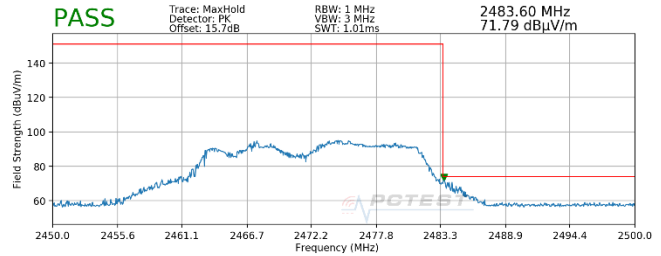
Plot 7-196. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset	Page 123 of 129	

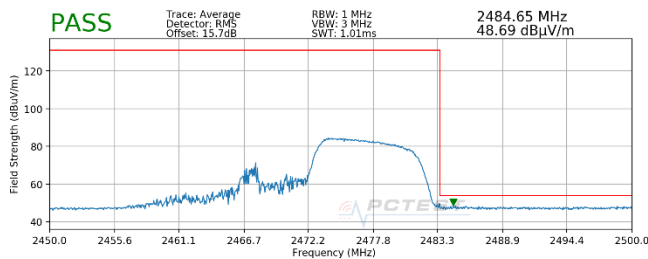
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



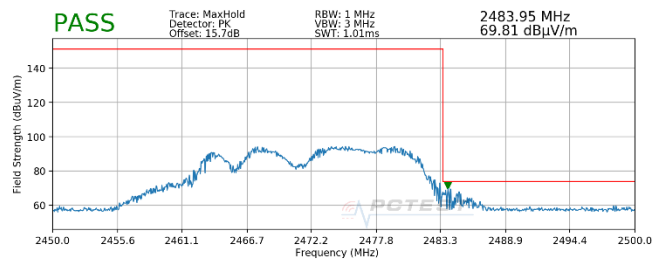
Plot 7-197. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones) - Q



Plot 7-198. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones) - Q



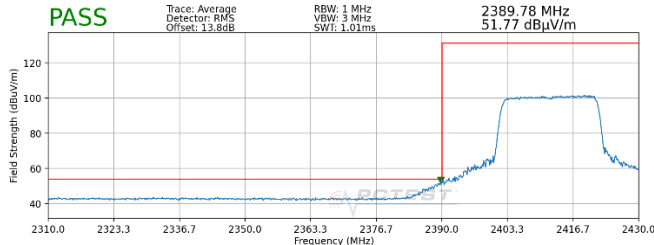
Plot 7-199. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones) - N



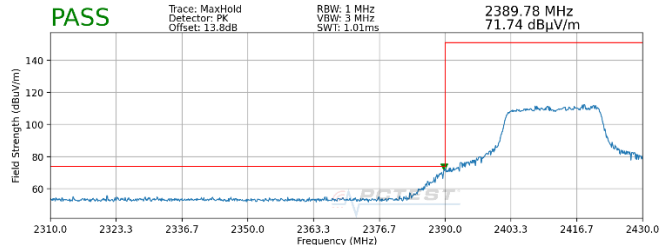
Plot 7-200. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset	Page 124 of 129	

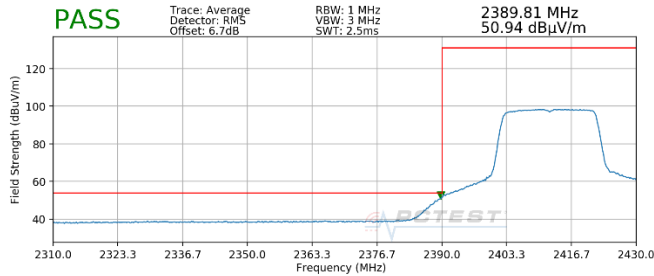
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



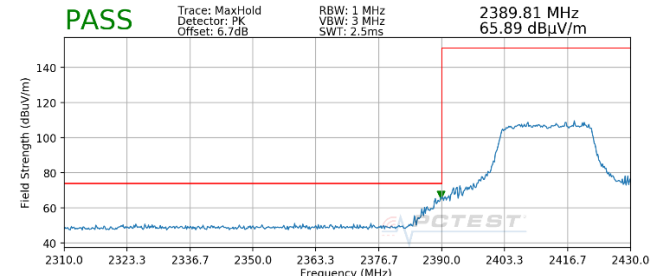
Plot 7-201. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones) - Q



Plot 7-202. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones) - Q



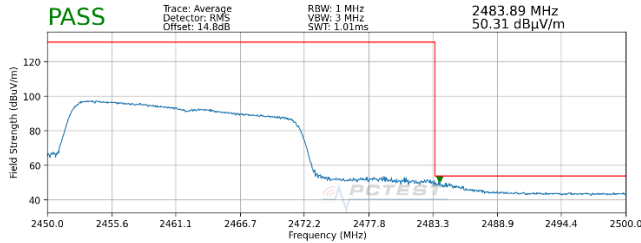
Plot 7-203. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones) - N



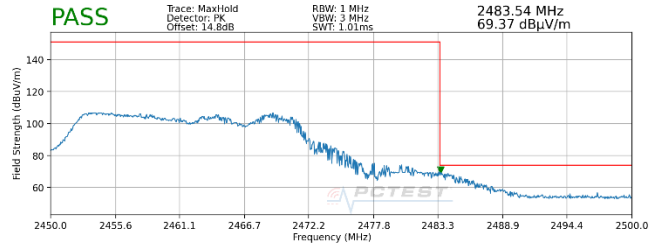
Plot 7-204. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset	Page 125 of 129	

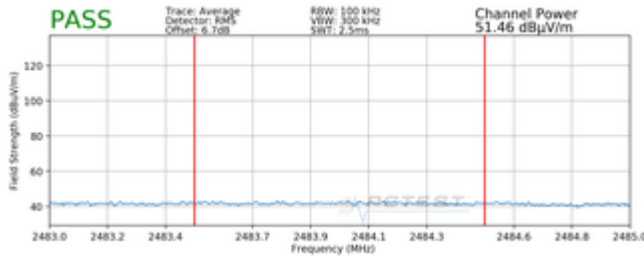
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



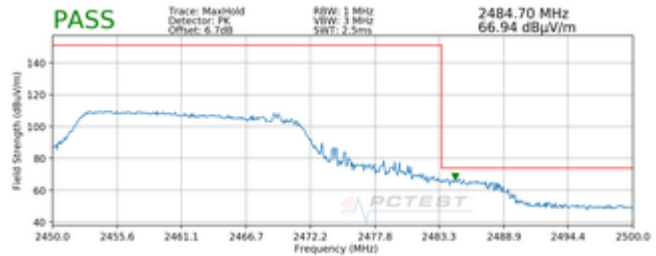
Plot 7-205. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones) - Q



Plot 7-206. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones) - Q



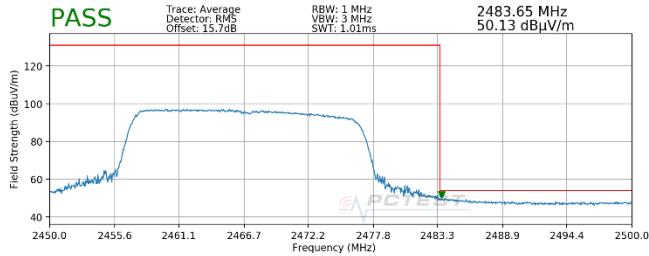
Plot 7-207. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones) - N



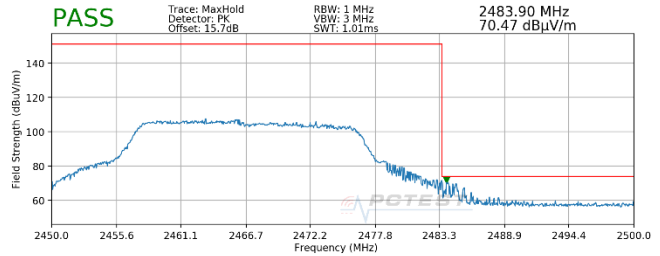
Plot 7-208. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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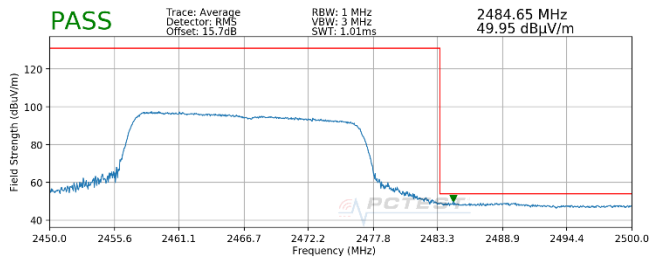
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



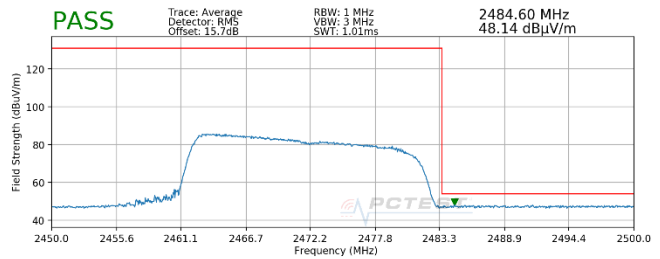
Plot 7-209. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones) - Q



Plot 7-210. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones) - Q



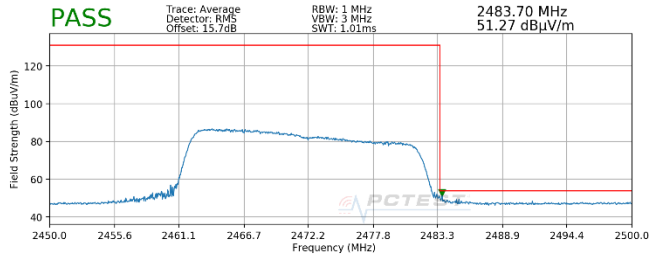
Plot 7-211. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones) - N



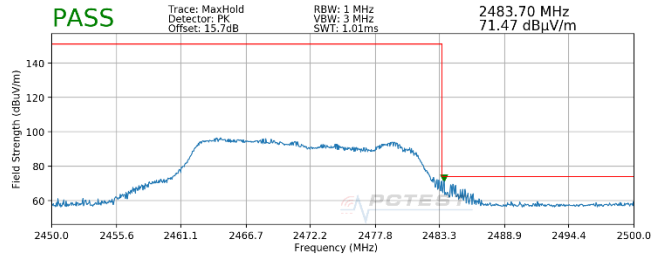
Plot 7-212. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones) - N

FCC ID: A3LSMF711B	 <p>PCTEST® Proud to be part of element</p>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset	Page 127 of 129	

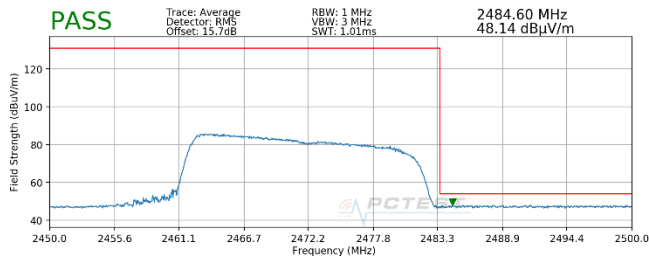
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



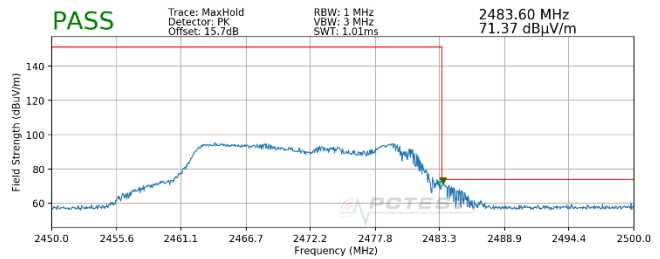
Plot 7-213. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones) - Q



Plot 7-214. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones) - Q



Plot 7-215. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones) - N



Plot 7-216. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones) - N

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF711B** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-11.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 129 of 129