

Plot 7-187. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - LTE B7



Plot 7-188. Conducted Spurious Plot (ULCA LTE B7 - (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-189. Conducted Spurious Plot (ULCA LTE B7 - (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

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Plot 7-190. Conducted Spurious Plot (ULCA LTE B7 - (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-191. Conducted Spurious Plot (ULCA LTE B7 - (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

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Plot 7-192. Conducted Spurious Plot (ULCA LTE B7 - (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

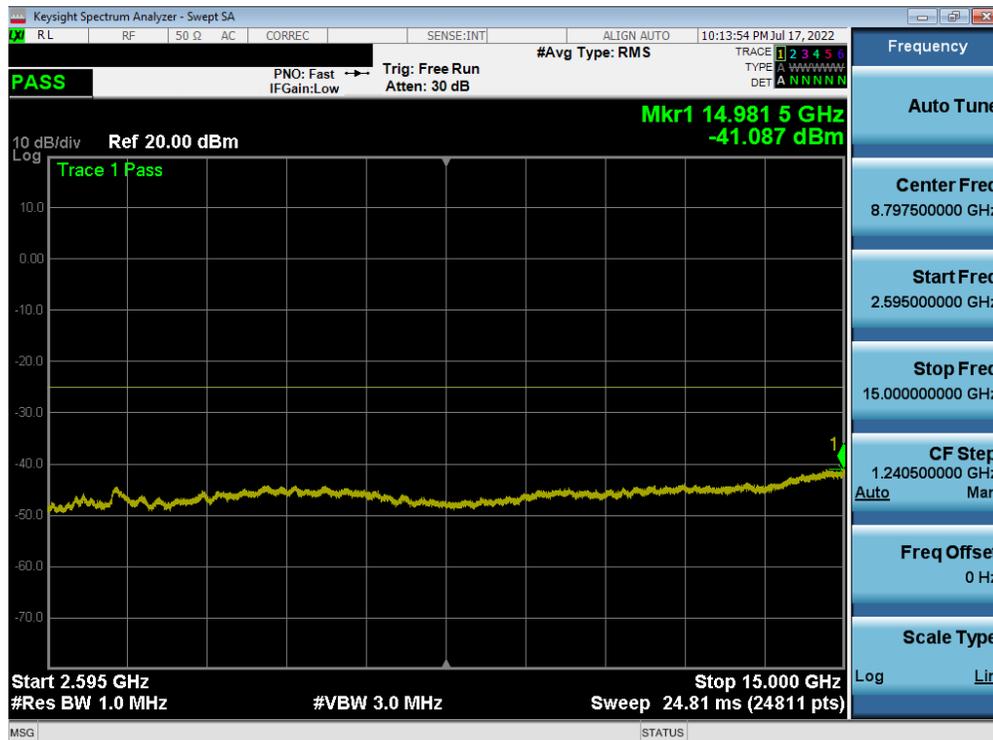


Plot 7-193. Conducted Spurious Plot (ULCA LTE B7 - (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

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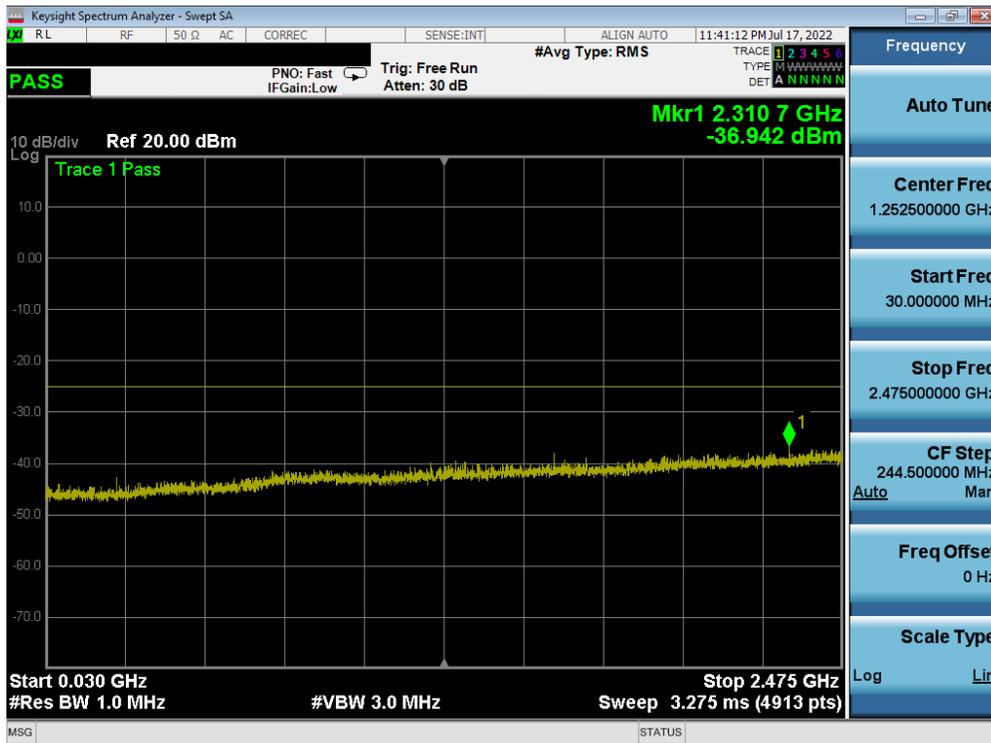
Plot 7-194. Conducted Spurious Plot (ULCA LTE B7 - (20+20)MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



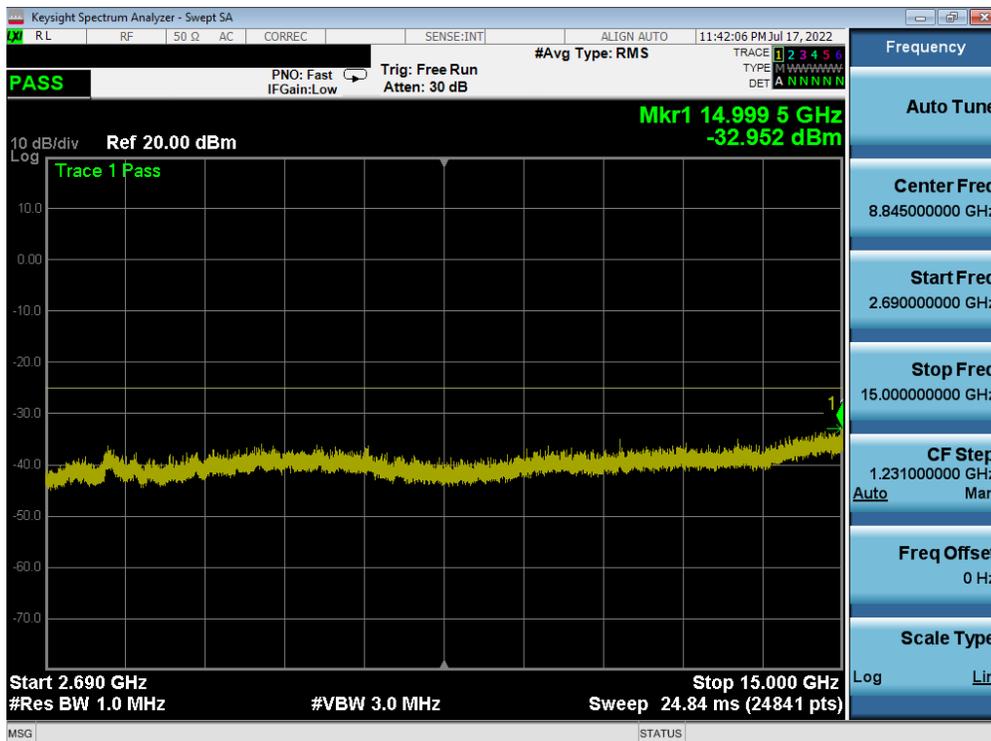
Plot 7-195. Conducted Spurious Plot (ULCA LTE B7 - (20+20)MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

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ULCA - LTE B41

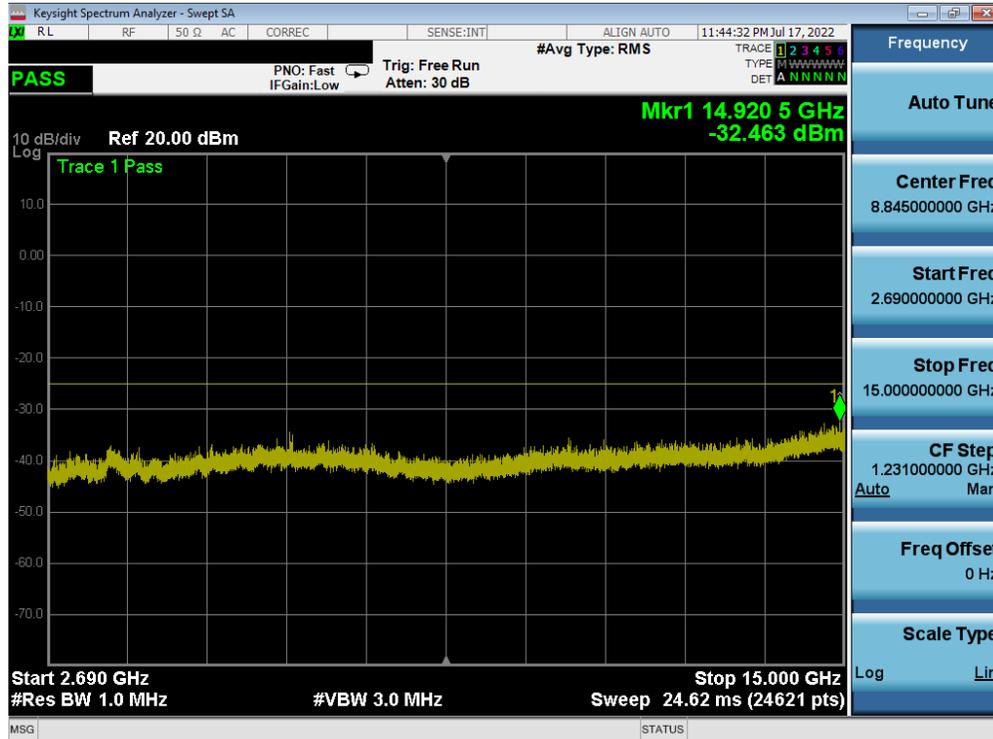


Plot 7-197. Conducted Spurious Plot (ULCA LTE B41 – (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-198. Conducted Spurious Plot (ULCA LTE B41 – (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

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Plot 7-201. Conducted Spurious Plot (ULCA LTE B41 – (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

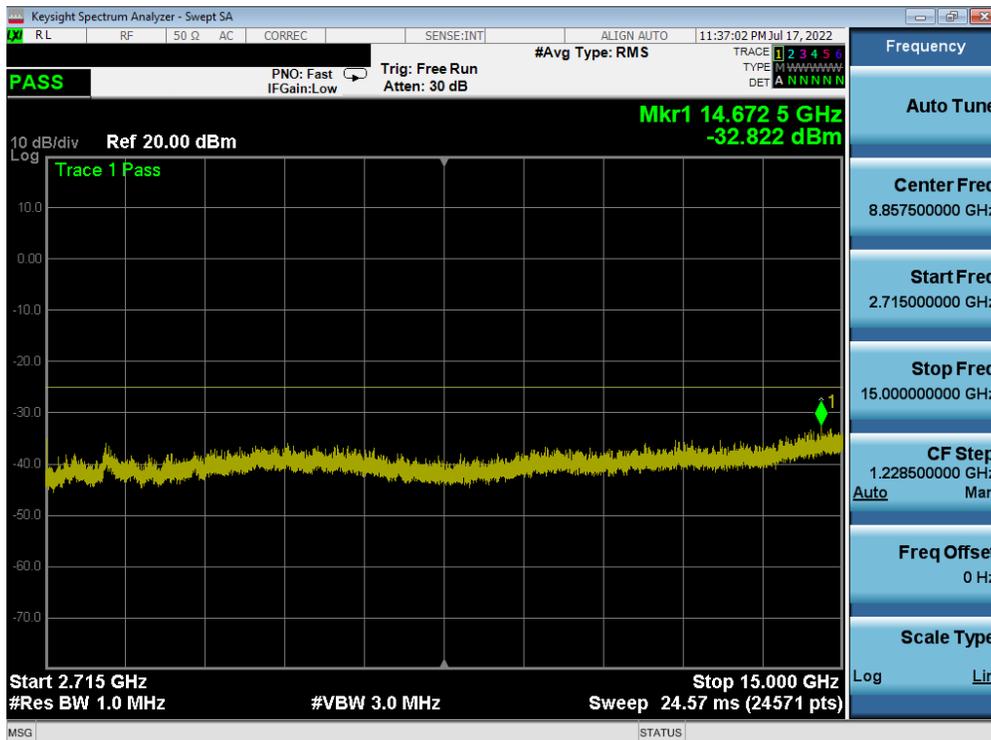


Plot 7-202. Conducted Spurious Plot (ULCA LTE B41 – (20+20)MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

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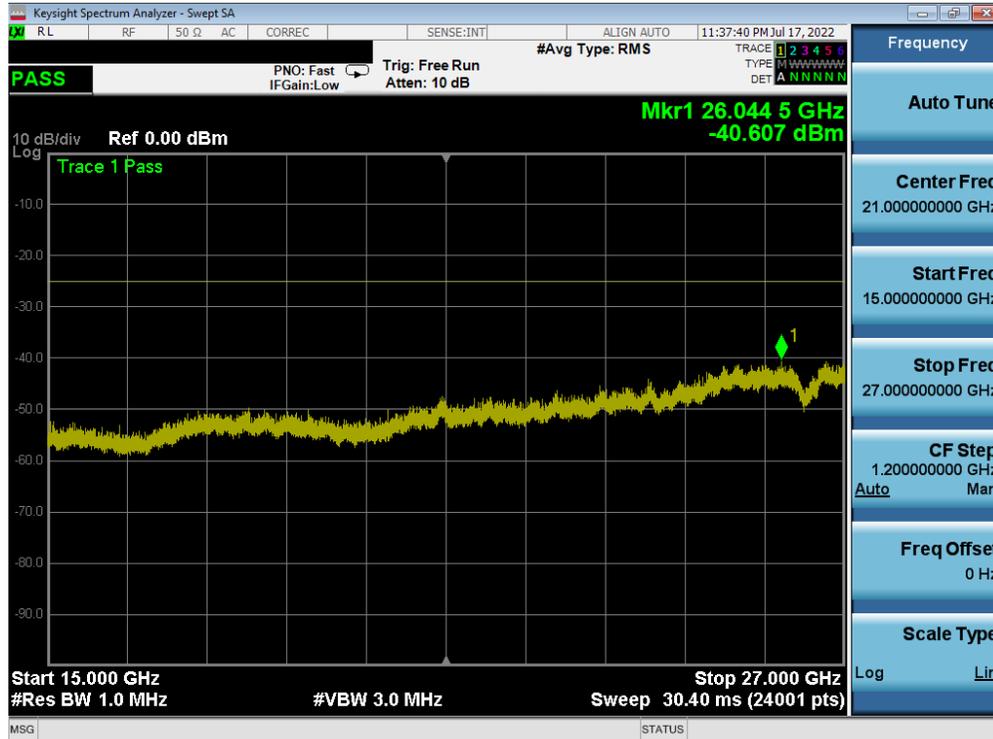


Plot 7-203. Conducted Spurious Plot (ULCA LTE B41 – (20+20)MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-204. Conducted Spurious Plot (ULCA LTE B41 – (20+20)MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

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Plot 7-205. Conducted Spurious Plot (ULCA LTE B41 – (20+20)MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

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7.4 Band Edge Emissions at Antenna Terminal

§2.1051, §27.53(a), §27.53(m)

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data was reported.

The minimum permissible attenuation level for Band 30 is $> 43 + 10 \log_{10}(P[\text{Watts}]$ at 2300-2305MHz & 2345-2360MHz, $> 55 + 10 \log_{10}(P[\text{Watts}]$ at 2320-2324MHz & 2341-2345MHz, $> 61 + 10 \log_{10}(P[\text{Watts}]$ at 2324-2328MHz & 2337-2341MHz, $> 67 + 10 \log_{10}(P[\text{Watts}]$ at 2288-2292MHz & 2328-2337MHz, and $> 70 + 10 \log_{10}(P[\text{Watts}]$ at frequencies $< 2288\text{MHz}$ & $> 2365\text{MHz}$.

For LTE Bands 7, 41, and NR FR1 Band n41 the minimum permissible attenuation level is noted in the Test Notes on the following page.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW \geq 1% of the emission bandwidth
4. VBW \geq 3 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

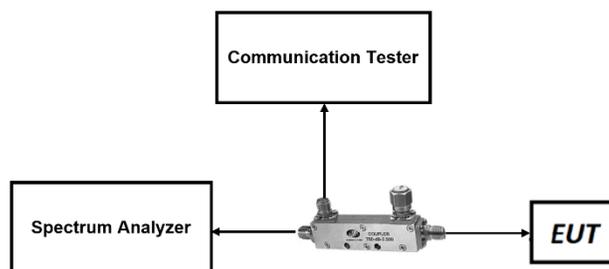


Figure 7-3. Test Instrument & Measurement Setup

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V2.2 2/15/2022

Test Notes

1. Per 27.53(h), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
3. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
4. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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LTE Band 30



Plot 7-206. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



Plot 7-207. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

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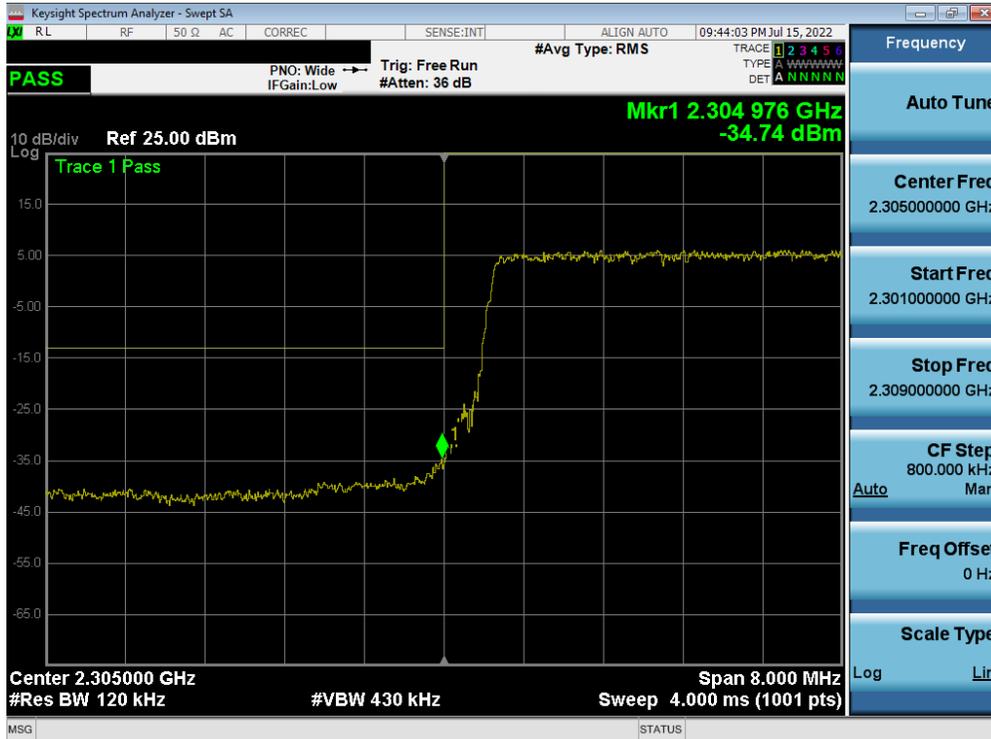


Plot 7-208. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

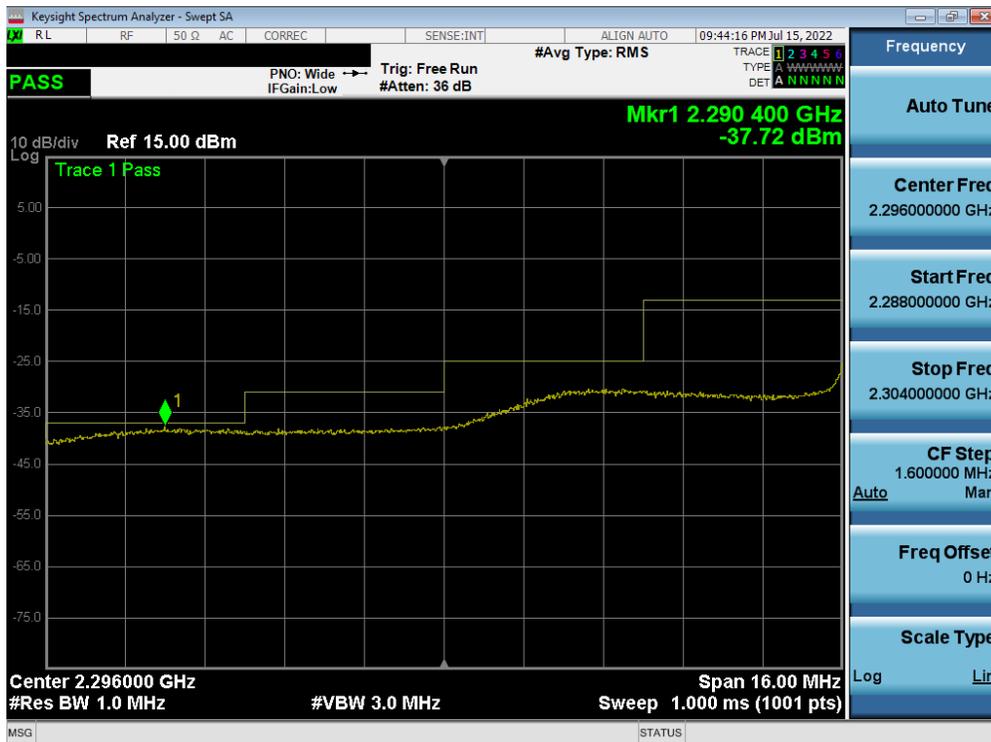


Plot 7-209. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-210. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

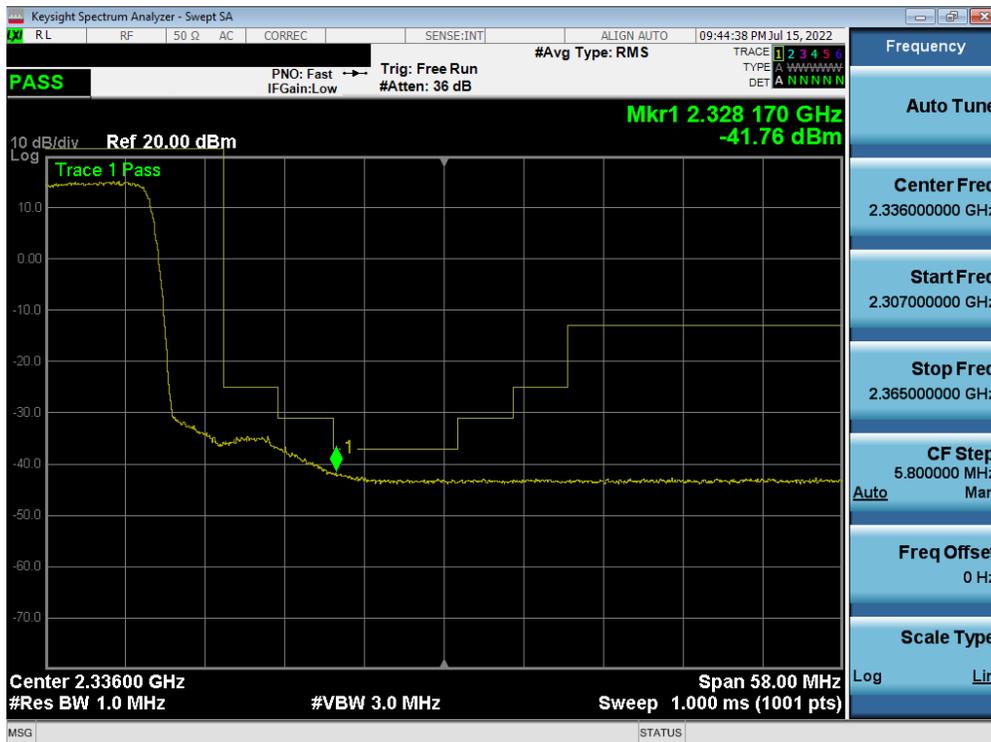


Plot 7-211. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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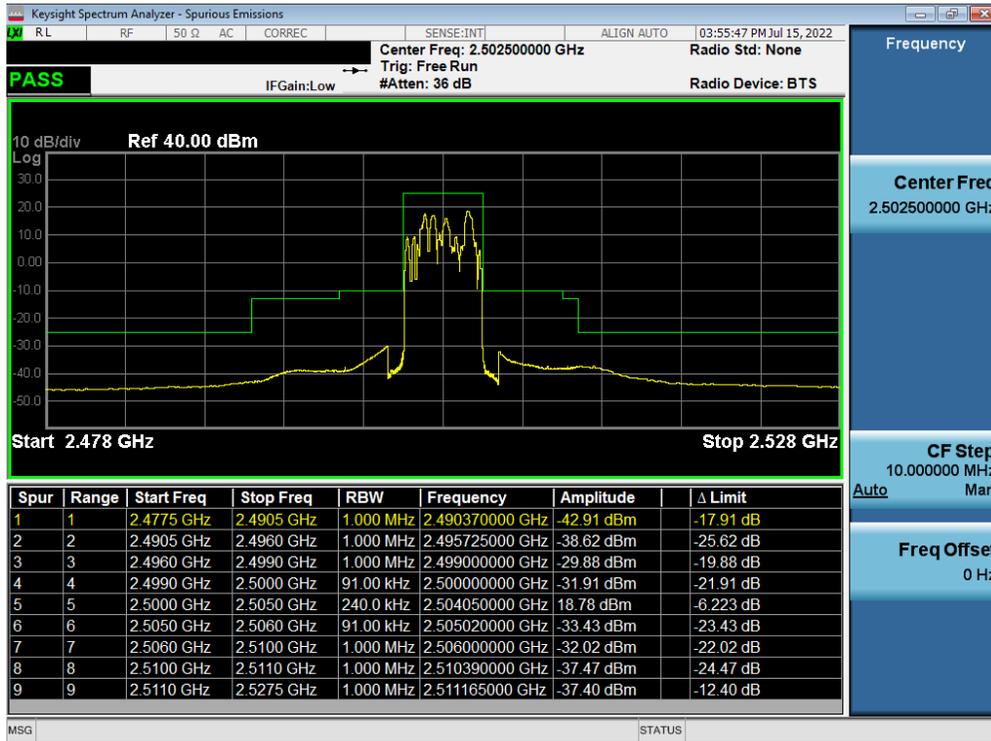
Plot 7-212. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)



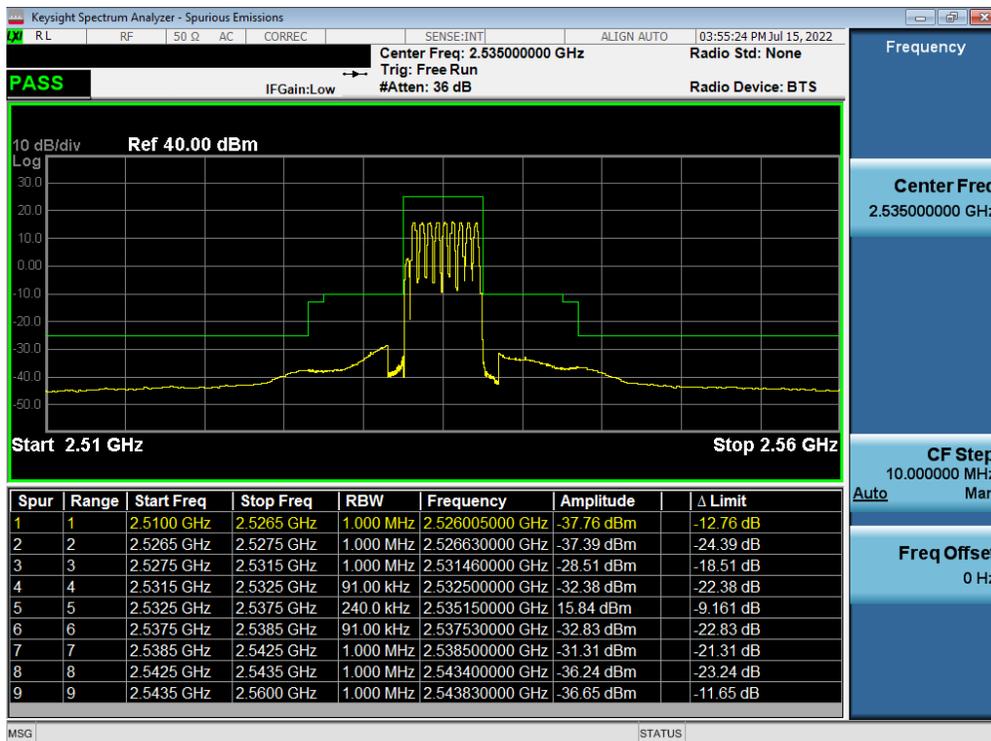
Plot 7-213. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7

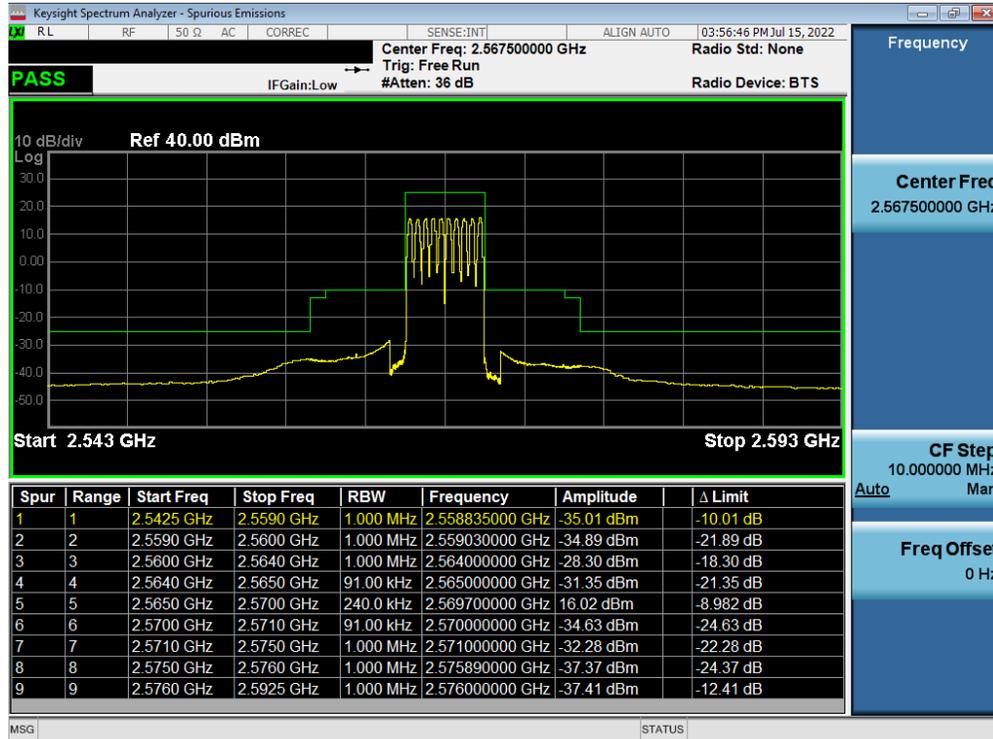


Plot 7-214. Lower ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB)



Plot 7-215. Middle ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-216. Upper ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB)



Plot 7-217. Lower ACP Plot (LTE Band 7 - 10MHz QPSK – Full RB)

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Plot 7-218. Middle ACP Plot (LTE Band 7 - 10MHz QPSK – Full RB)

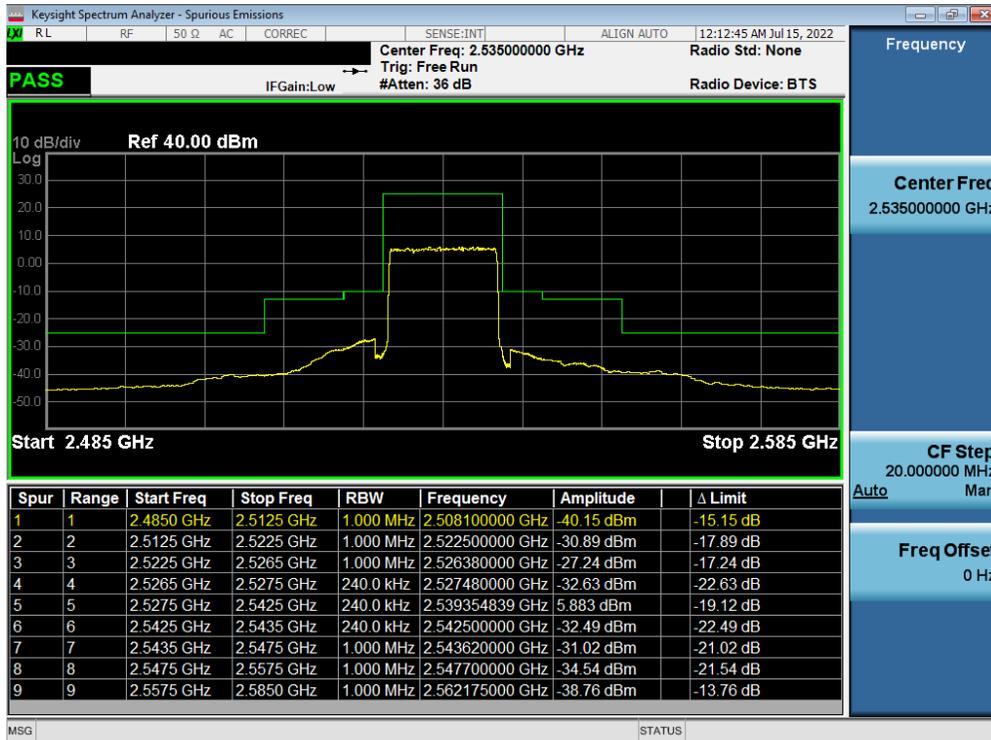


Plot 7-219. Upper ACP Plot (LTE Band 7 - 10MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-220. Lower ACP Plot (LTE Band 7 - 15MHz QPSK – Full RB)

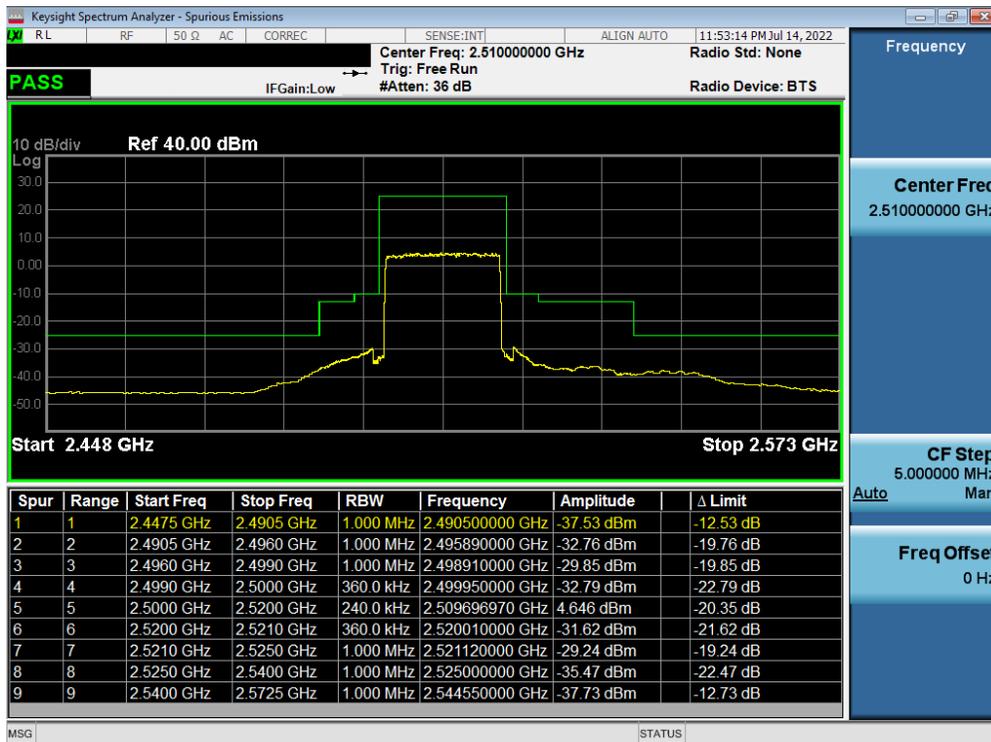


Plot 7-221. Middle ACP Plot (LTE Band 7 - 15MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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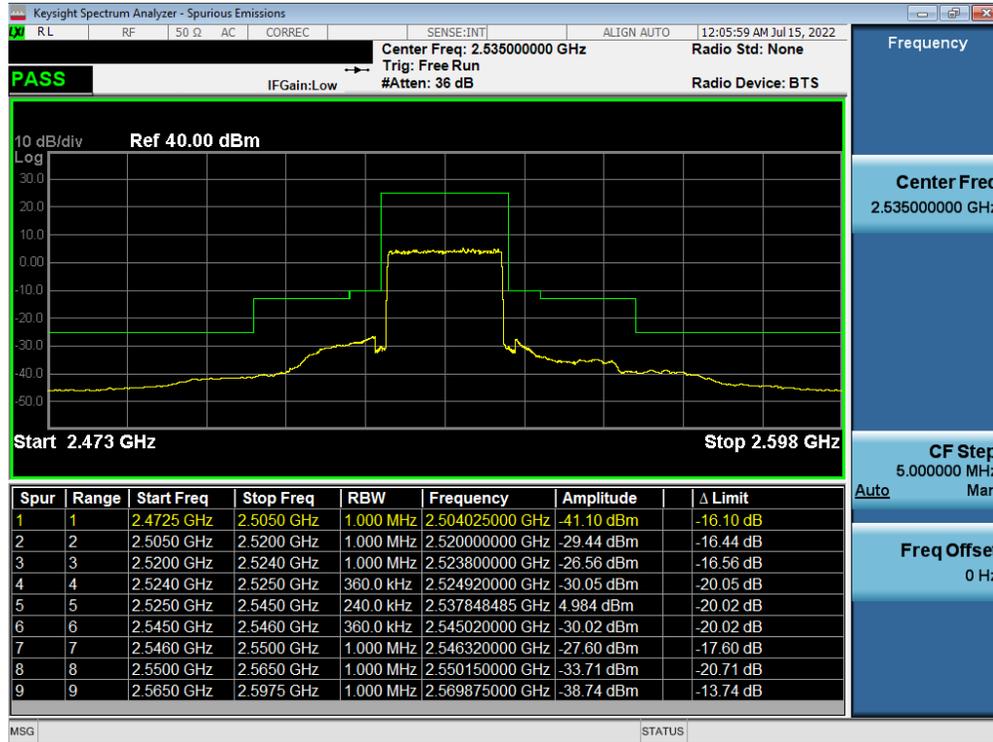


Plot 7-222. Upper ACP Plot (LTE Band 7 - 15MHz QPSK – Full RB)



Plot 7-223. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-224. Middle ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB)



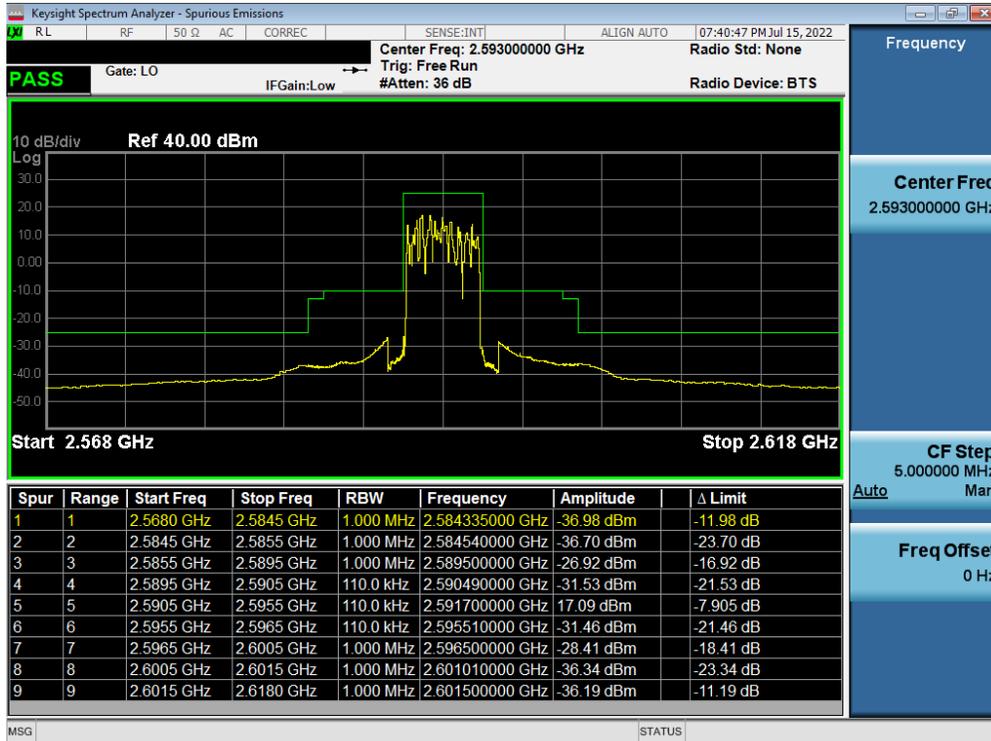
Plot 7-225. Upper ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 41



Plot 7-226. Lower ACP Plot (LTE Band 41 - 5MHz QPSK – Full RB)



Plot 7-227. Middle ACP Plot (LTE Band 41 - 5MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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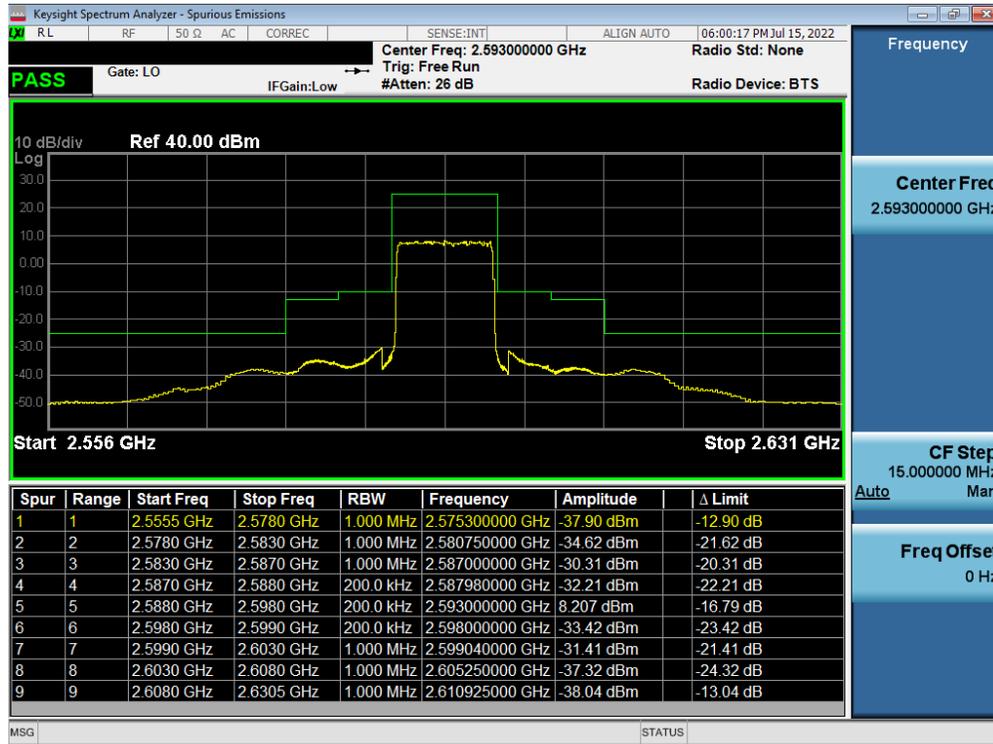


Plot 7-228. Upper ACP Plot (LTE Band 41 - 5MHz QPSK – Full RB)

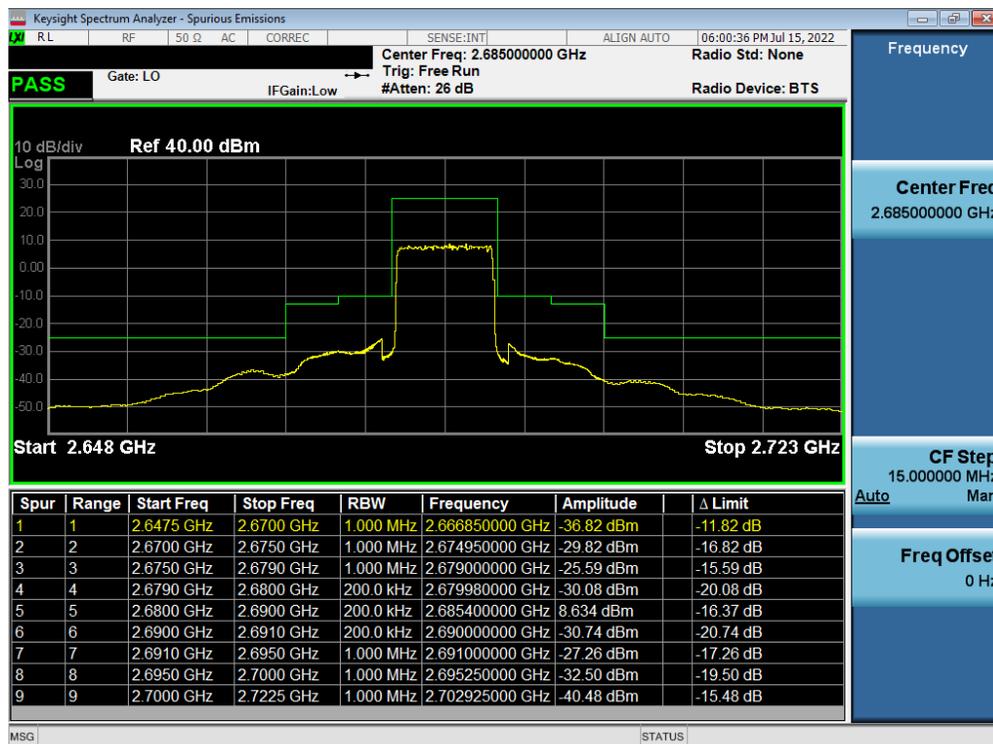


Plot 7-229. Lower ACP Plot (LTE Band 41 - 10MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-230. Middle ACP Plot (LTE Band 41 - 10MHz QPSK – Full RB)



Plot 7-231. Upper ACP Plot (LTE Band 41 - 10MHz QPSK – Full RB)

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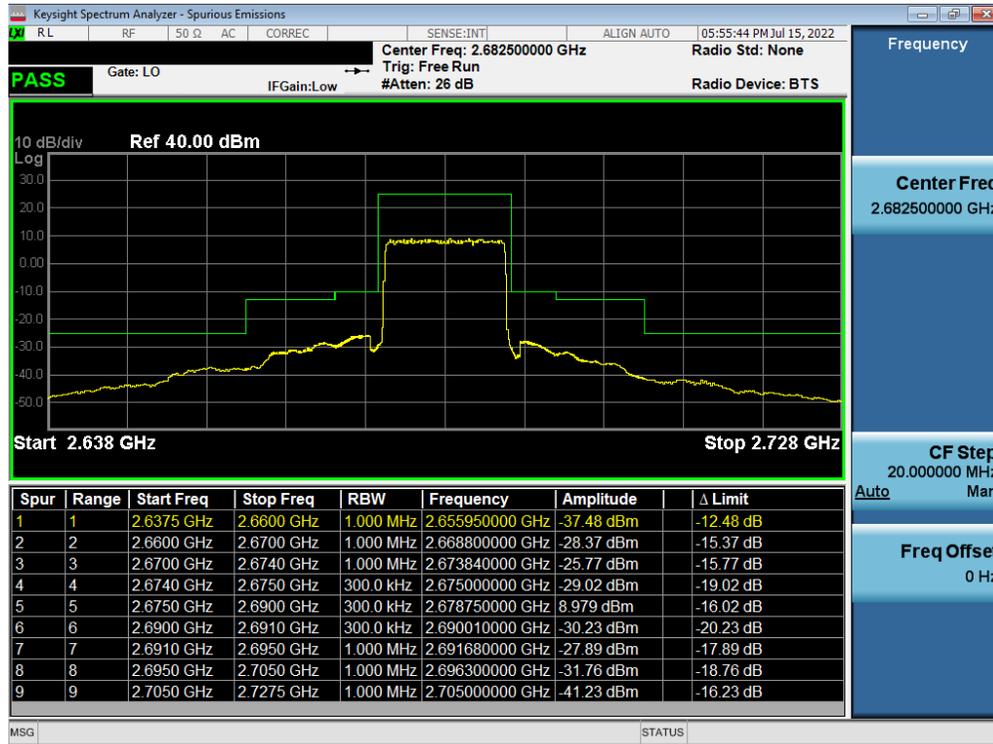


Plot 7-232. Lower ACP Plot (LTE Band 41 - 15MHz QPSK – Full RB)



Plot 7-233. Middle ACP Plot (LTE Band 41 - 15MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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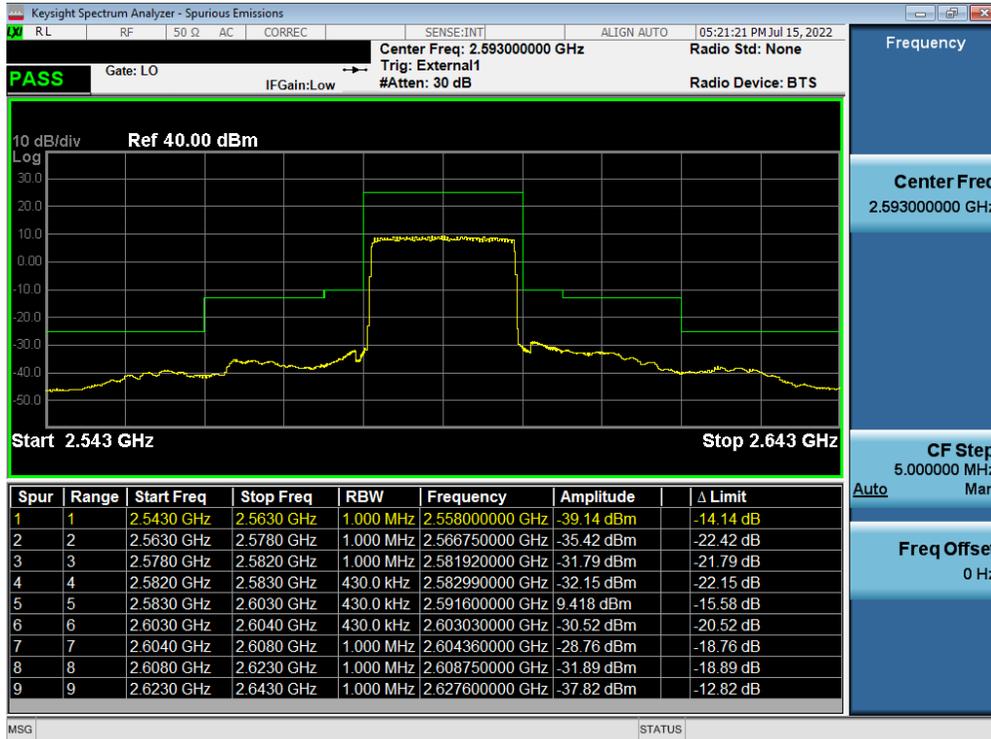


Plot 7-234. Upper ACP Plot (LTE Band 41 - 15MHz QPSK – Full RB)



Plot 7-235. Lower ACP Plot (LTE Band 41 - 20MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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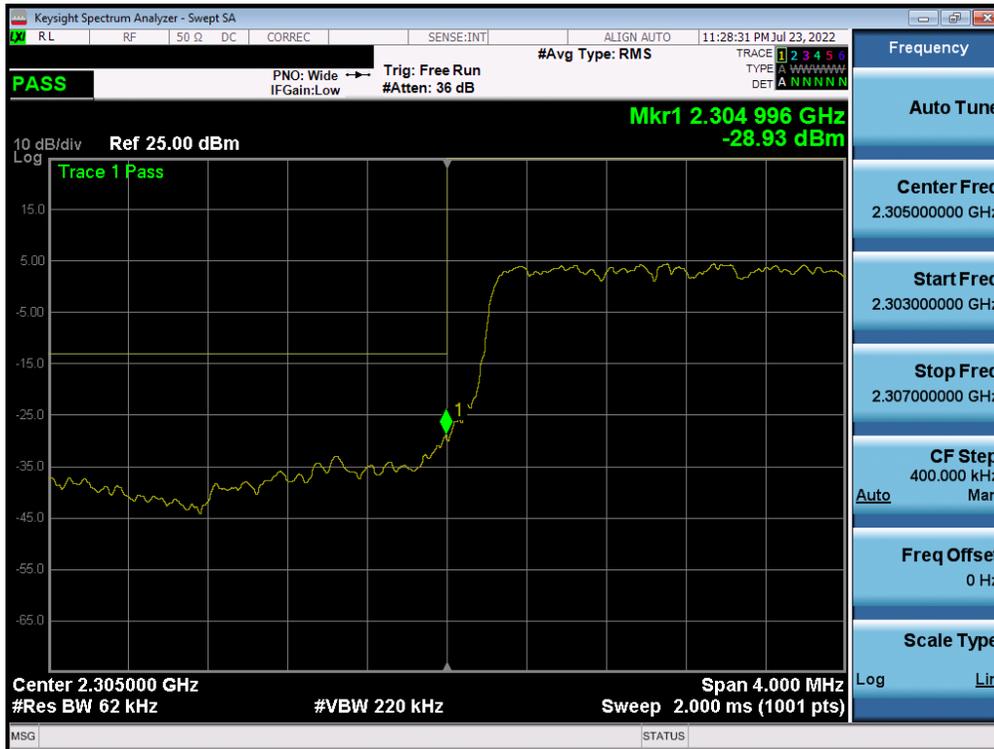
Plot 7-236. Middle ACP Plot (LTE Band 41 - 20MHz QPSK – Full RB)



Plot 7-237. Upper ACP Plot (LTE Band 41 - 20MHz QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n30



Plot 7-238. Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM $\pi/2$ BPSK – Full RB)

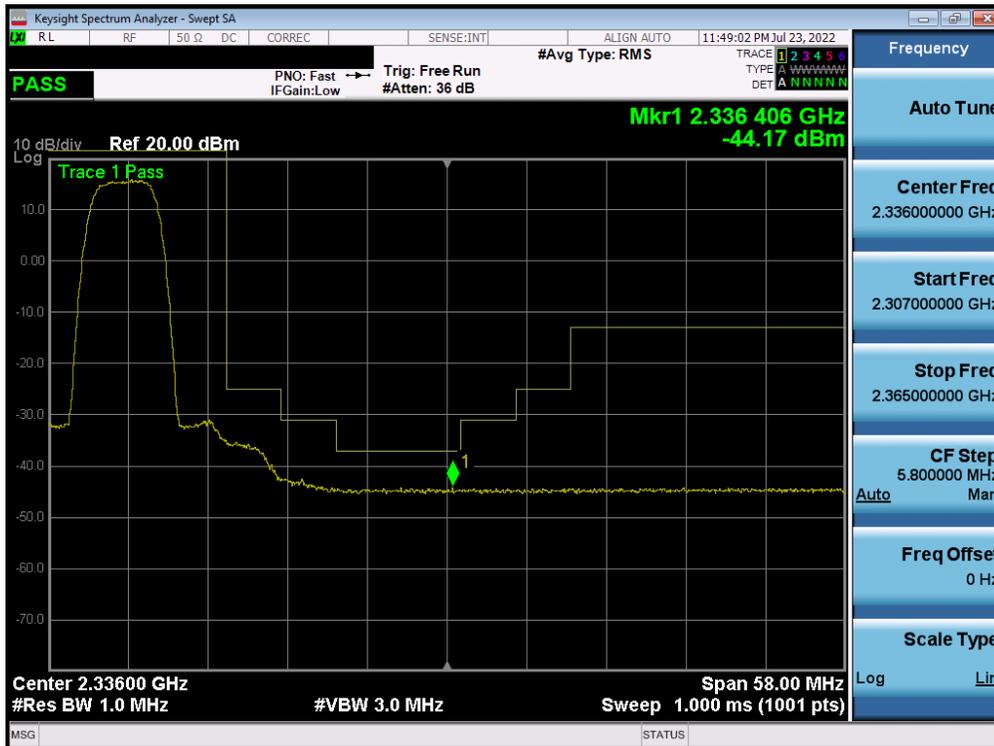


Plot 7-239. Extended Lower Band Edge Plot (NR Band n30 - 5MHz DFTs-OFDM QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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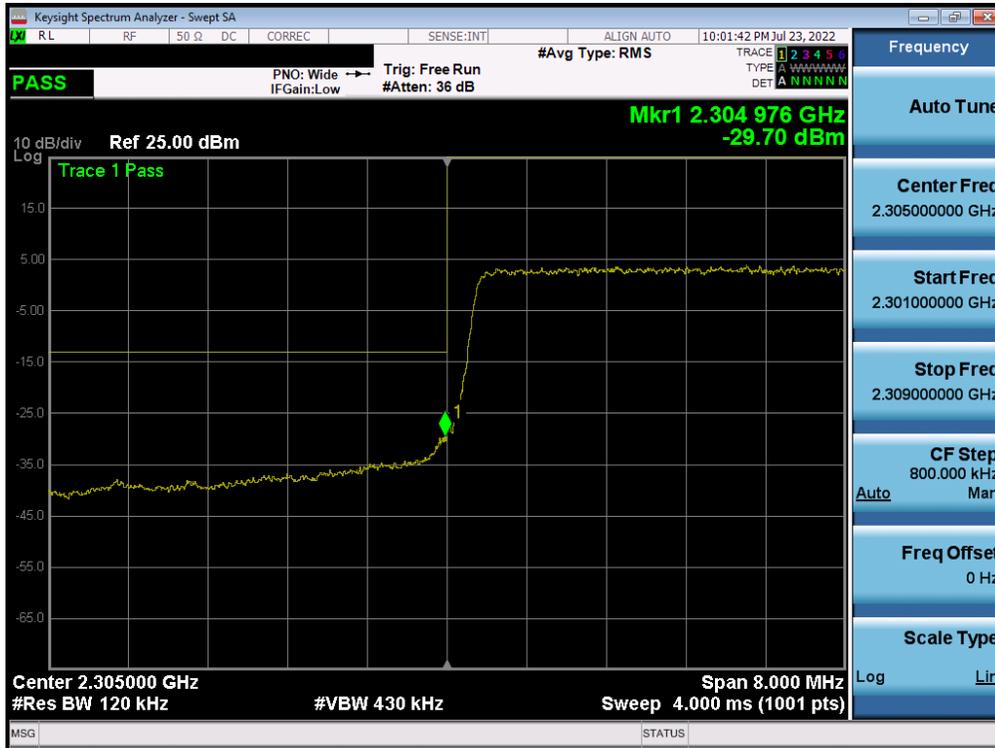


Plot 7-240. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM $\pi/2$ BPSK – Full RB)



Plot 7-241. Extended Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM $\pi/2$ BPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-242. Lower Band Edge Plot (NR Band n30 - 10MHz DFTs-OFDM $\pi/2$ BPSK – Full RB)

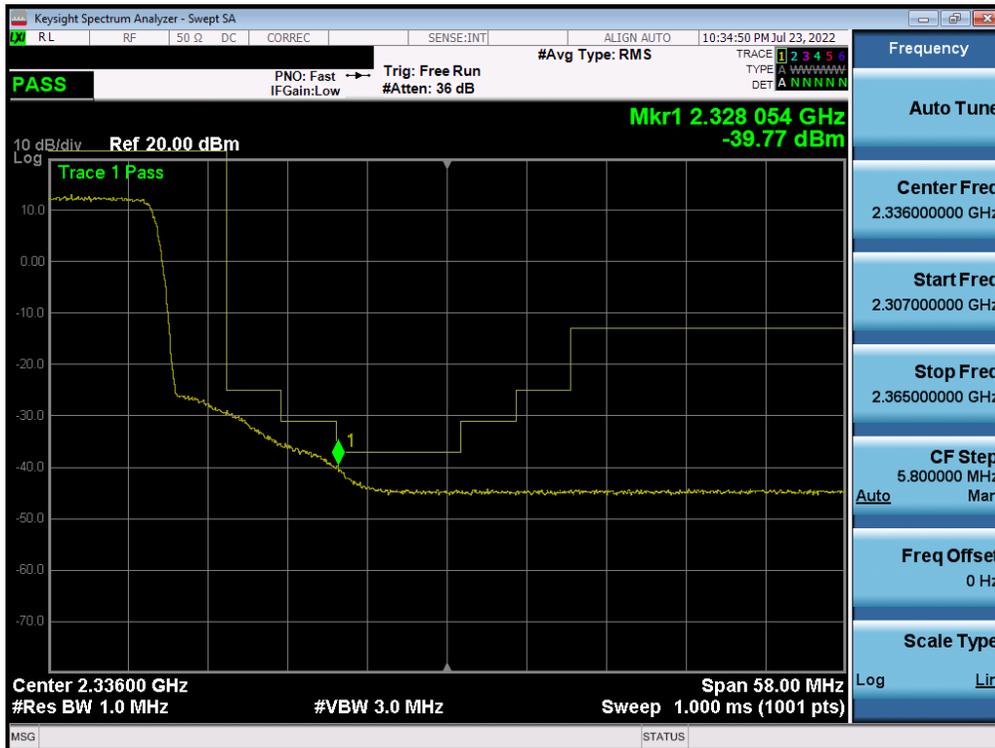


Plot 7-243. Extended Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM $\pi/2$ BPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-244. Upper Band Edge Plot (NR Band n30 - 10MHz DFTs-OFDM $\pi/2$ BPSK – Full RB)



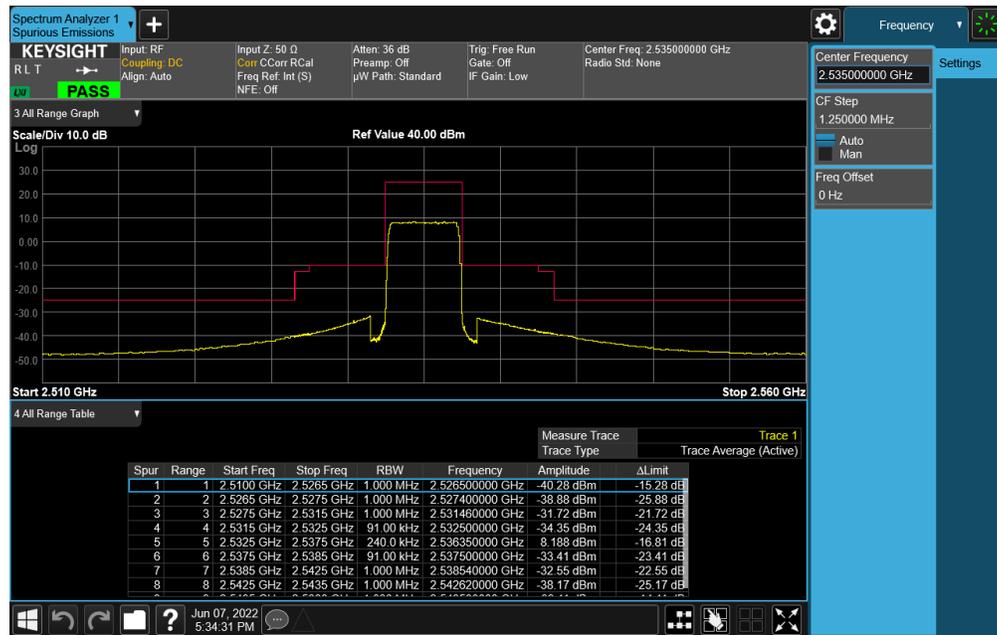
Plot 7-245. Extended Upper Band Edge Plot (NR Band n30 - 10MHz DFTs-OFDM QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n7



Plot 7-246. Lower Band Edge Plot (NR Band n7 - 5MHz DFTs-OFDM QPSK – Full RB)



Plot 7-247. Middle Band Edge Plot (NR Band n7 - 5MHz CP-OFDM $\pi/2$ BPSK – Full RB)

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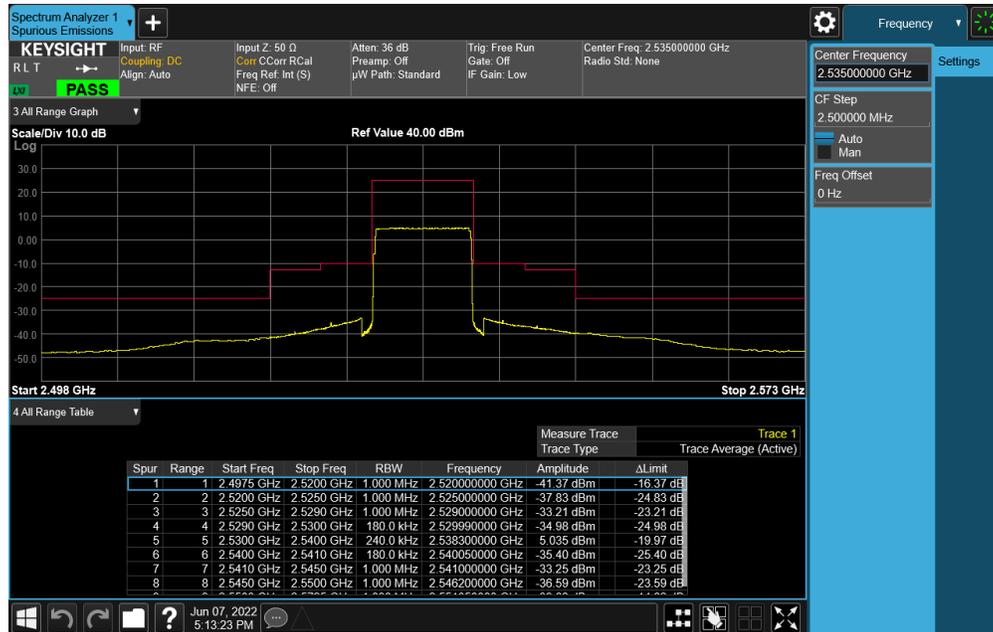


Plot 7-248. Upper Band Edge Plot (NR Band n7 - 5MHz CP-OFDM $\pi/2$ BPSK – Full RB)



Plot 7-249. Lower Band Edge Plot (NR Band n7 - 10MHz CP-OFDM $\pi/2$ BPSK – Full RB)

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Plot 7-250. Middle Band Edge Plot (NR Band n7 - 10MHz CP-OFDM $\pi/2$ BPSK – Full RB)



Plot 7-251. Upper Band Edge Plot (NR Band n7 - 10MHz CP-OFDM $\pi/2$ BPSK – Full RB)

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Plot 7-252. Lower Band Edge Plot (NR Band n7 - 15MHz DFTs-OFDM QPSK – Full RB)

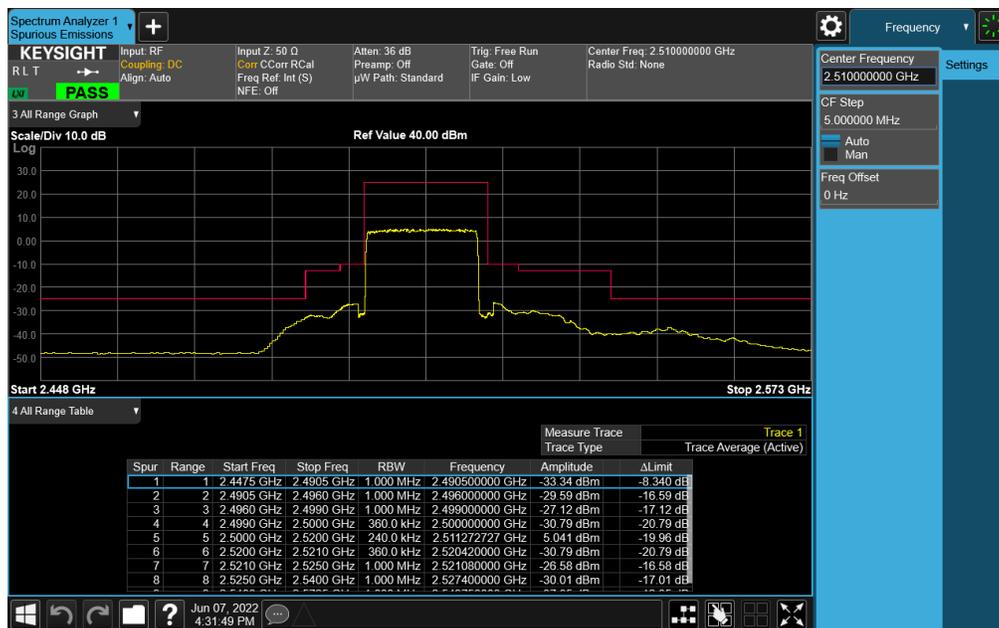


Plot 7-253. Middle Band Edge Plot (NR Band n7 - 15MHz CP-OFDM $\pi/2$ BPSK – Full RB)

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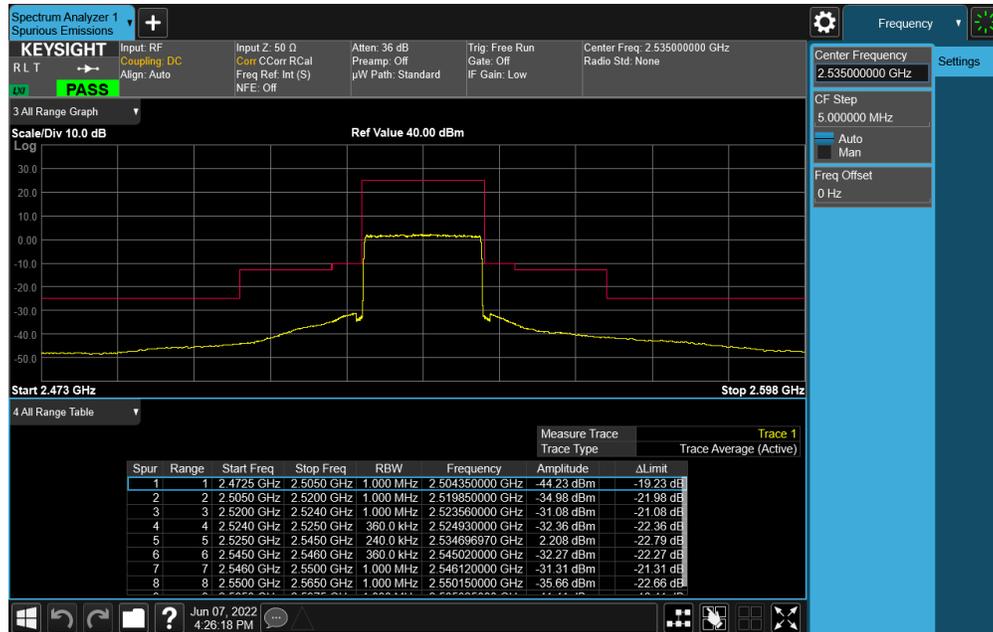


Plot 7-254. Upper Band Edge Plot (NR Band n7 - 15MHz CP-OFDM $\pi/2$ BPSK – Full RB)

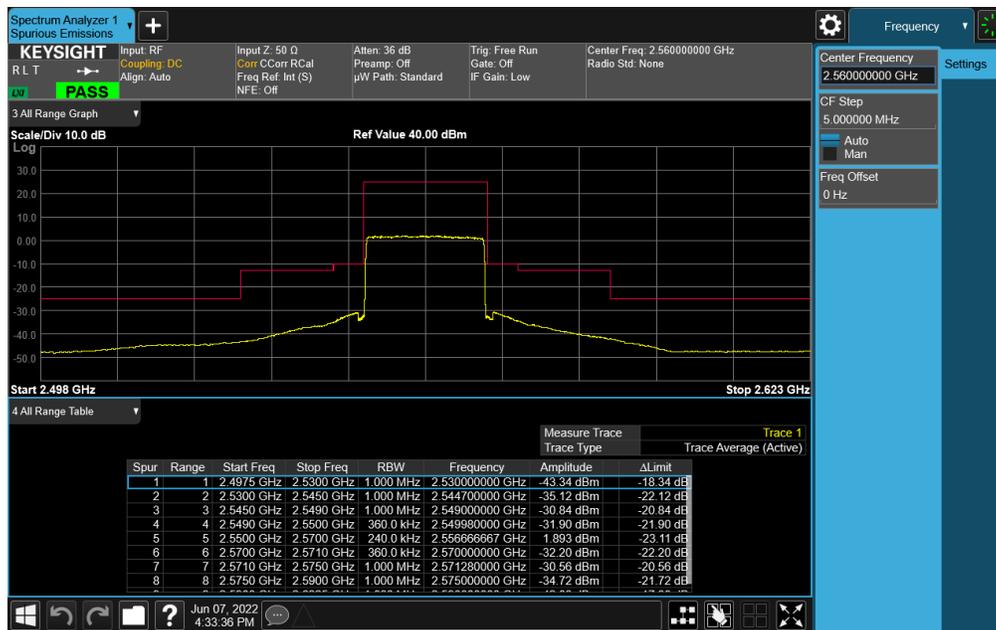


Plot 7-255. Lower Band Edge Plot (NR Band n7 - 20MHz DFTs-OFDM QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-256. Middle Band Edge Plot (NR Band n7 - 20MHz CP-OFDM $\pi/2$ BPSK - Full RB)

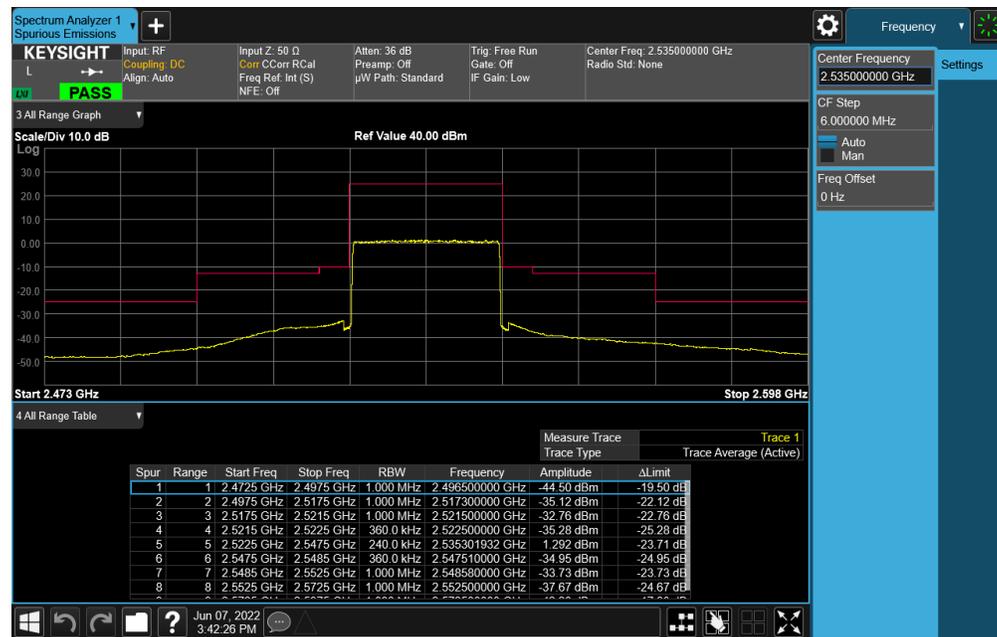


Plot 7-257. Upper Band Edge Plot (NR Band n7 - 20MHz CP-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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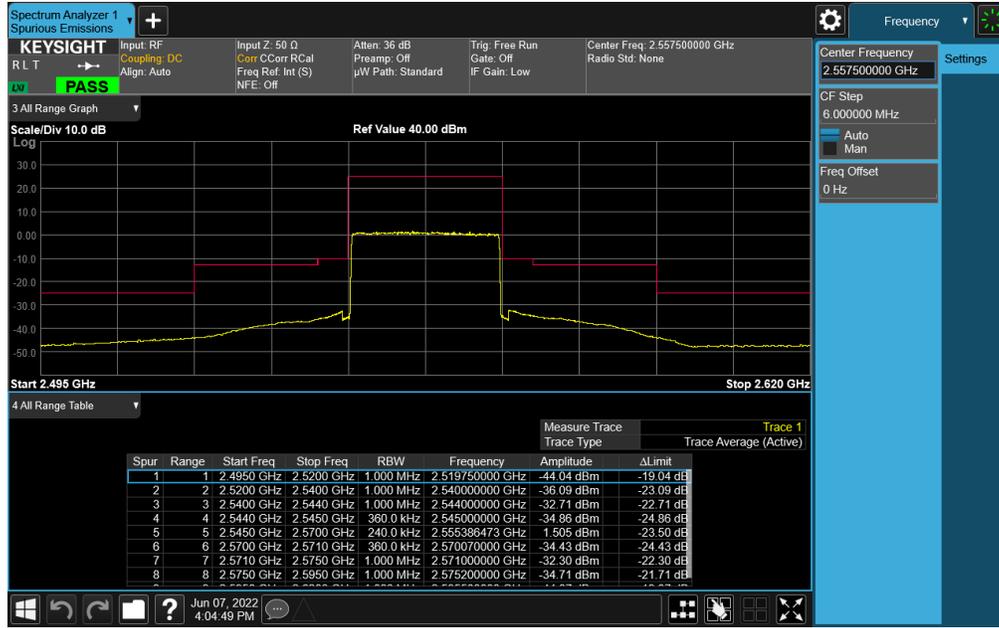


Plot 7-258. Lower Band Edge Plot (NR Band n7 - 25MHz DFTs-OFDM QPSK – Full RB)

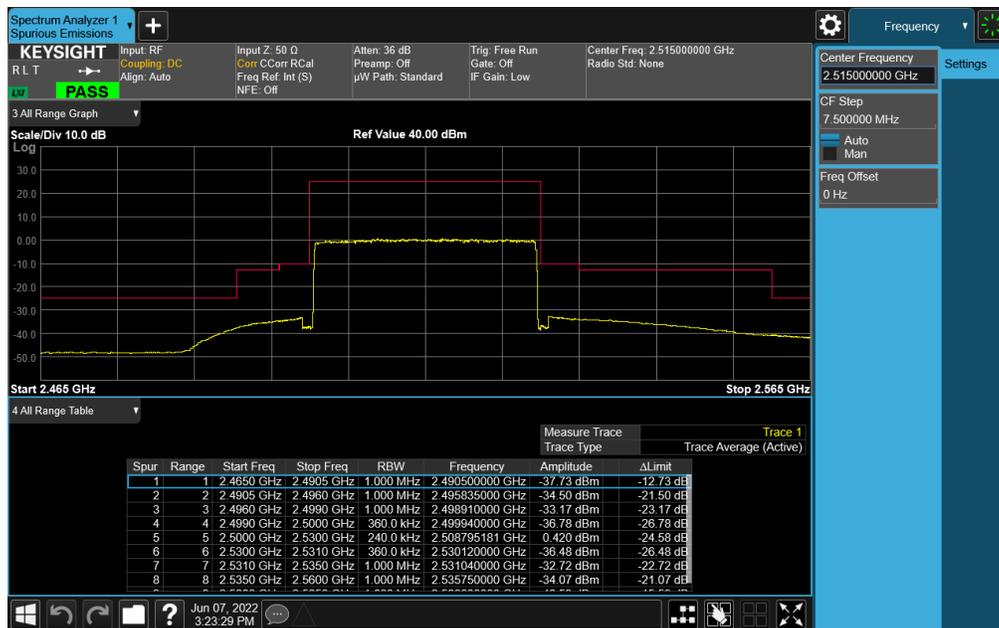


Plot 7-259. Middle Band Edge Plot (NR Band n7 - 25MHz CP-OFDM $\pi/2$ BPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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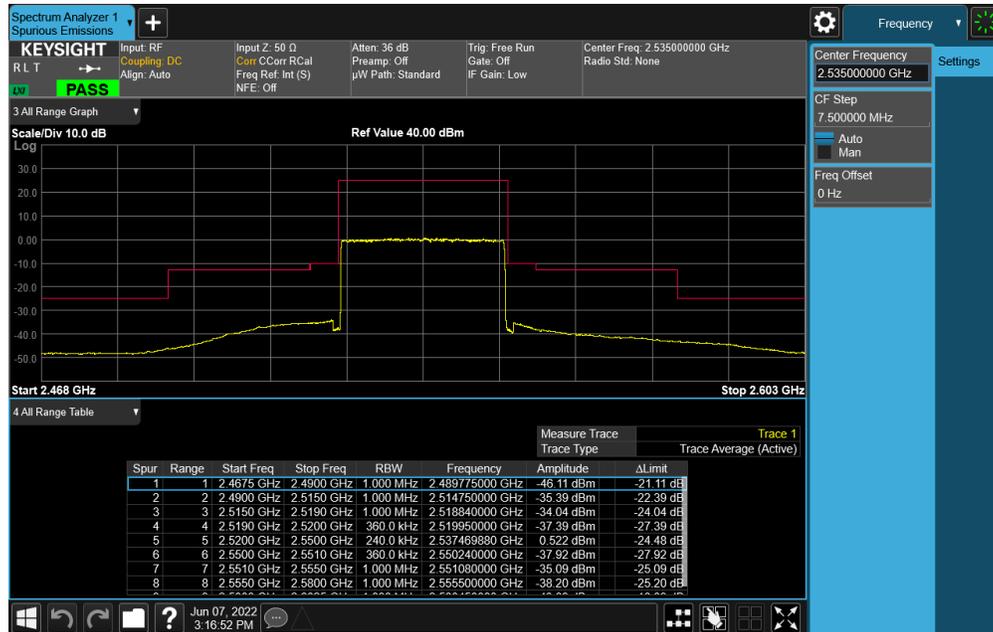


Plot 7-260. Upper Band Edge Plot (NR Band n7 - 25MHz CP-OFDM $\pi/2$ BPSK – Full RB)



Plot 7-261. Lower Band Edge Plot (NR Band n7 - 30MHz CP-OFDM QPSK – Full RB)

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Plot 7-262. Middle Band Edge Plot (NR Band n7 - 30MHz CP-OFDM $\pi/2$ BPSK – Full RB)



Plot 7-263. Upper Band Edge Plot (NR Band n7 - 30MHz CP-OFDM $\pi/2$ BPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-264. Lower Band Edge Plot (NR Band n7 - 40MHz DFTs-OFDM QPSK – Full RB)



Plot 7-265. Middle Band Edge Plot (NR Band n7 - 40MHz DFTs-OFDM $\pi/2$ BPSK – Full RB)

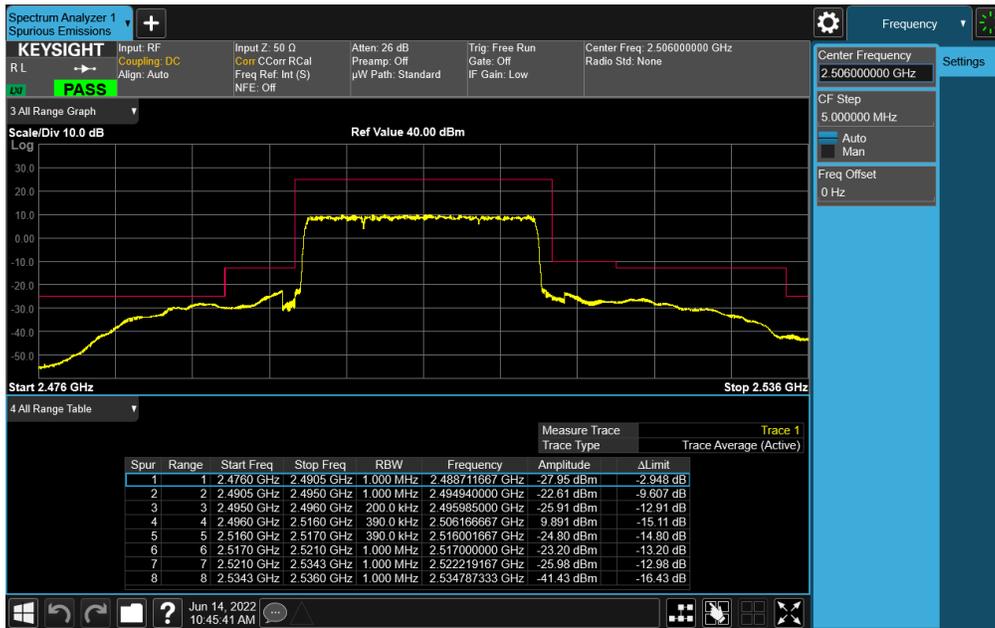
FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090023-04-R1.BCG	Test Dates: 7/3/2022 - 9/15/2022	EUT Type: Tablet Device
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Plot 7-266. Upper Band Edge Plot (NR Band n7 - 40MHz DFTs-OFDM qPSK – Full RB)

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NR Band n41



Plot 7-267. Lower ACP Plot (NR Band n41 - 20MHz DFTs -OFDM $\pi/2$ BPSK – Full RB)

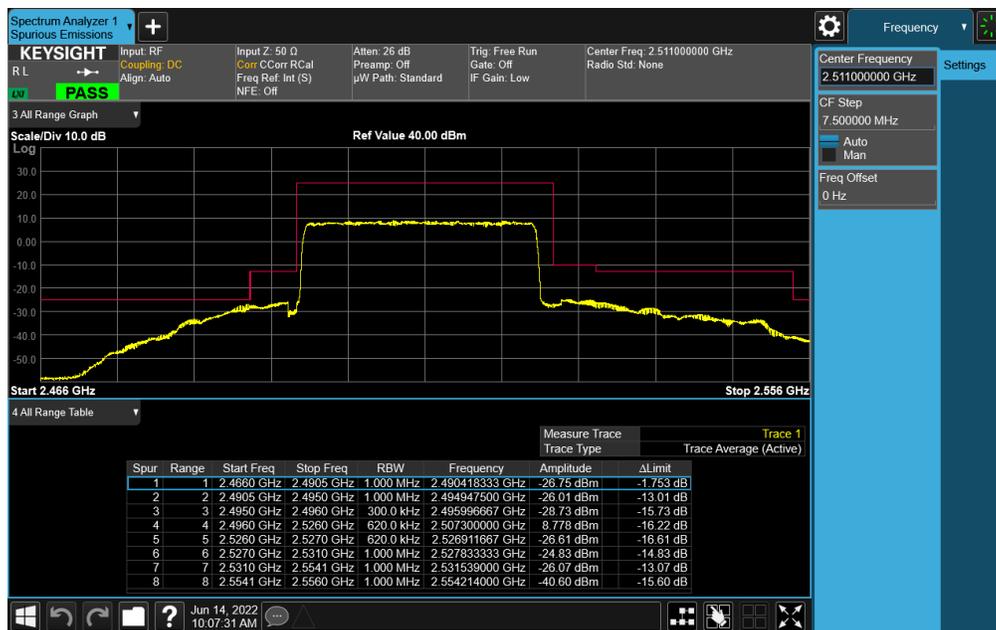


Plot 7-268. Middle ACP Plot (NR Band n41 - 20MHz DFTs -OFDM $\pi/2$ BPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-269. Upper ACP Plot (NR Band n41 - 20MHz CP-OFDM $\pi/2$ BPSK – Full RB)



Plot 7-270. Lower ACP Plot (NR Band n41 - 30MHz DFTs -OFDM QPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-271. Middle ACP Plot (NR Band n41 - 30MHz DFTs-OFDM QPSK – Full RB)

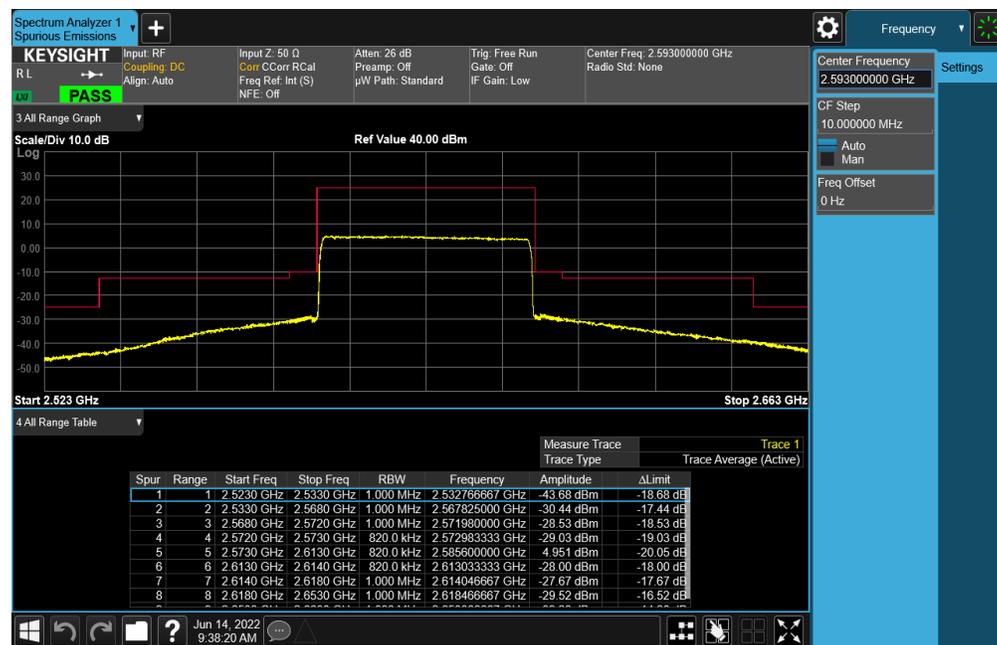


Plot 7-272. Upper ACP Plot (NR Band n41 - 30MHz CP-OFDM $\pi/2$ BPSK – Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-273. Lower ACP Plot (NR Band n41 - 40MHz CP-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-274. Middle ACP Plot (NR Band n41 - 40MHz CP-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2757	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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