

Plot 7-325. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 196 of 344

7.5 Band Edge Emissions at Antenna Terminal

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.

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 $< 2288\text{MHz}$ & $> 2365\text{MHz}$.

The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

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.

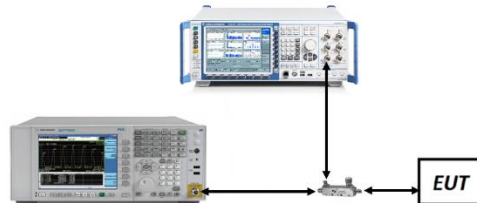


Figure 7-4. Test Instrument & Measurement Setup

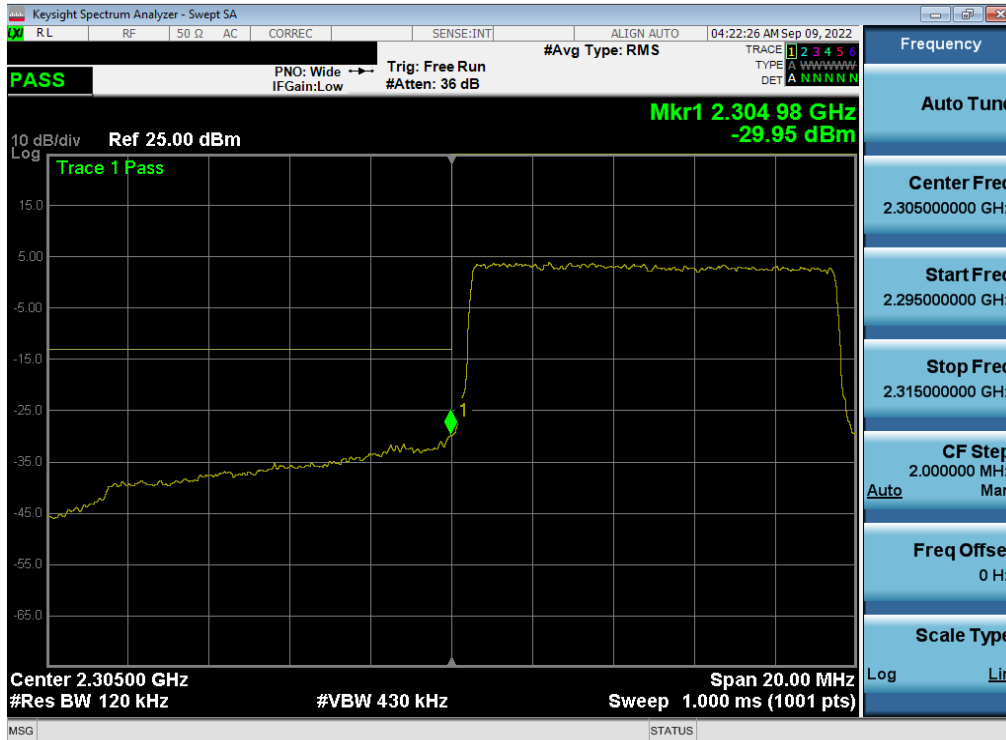
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Test Notes

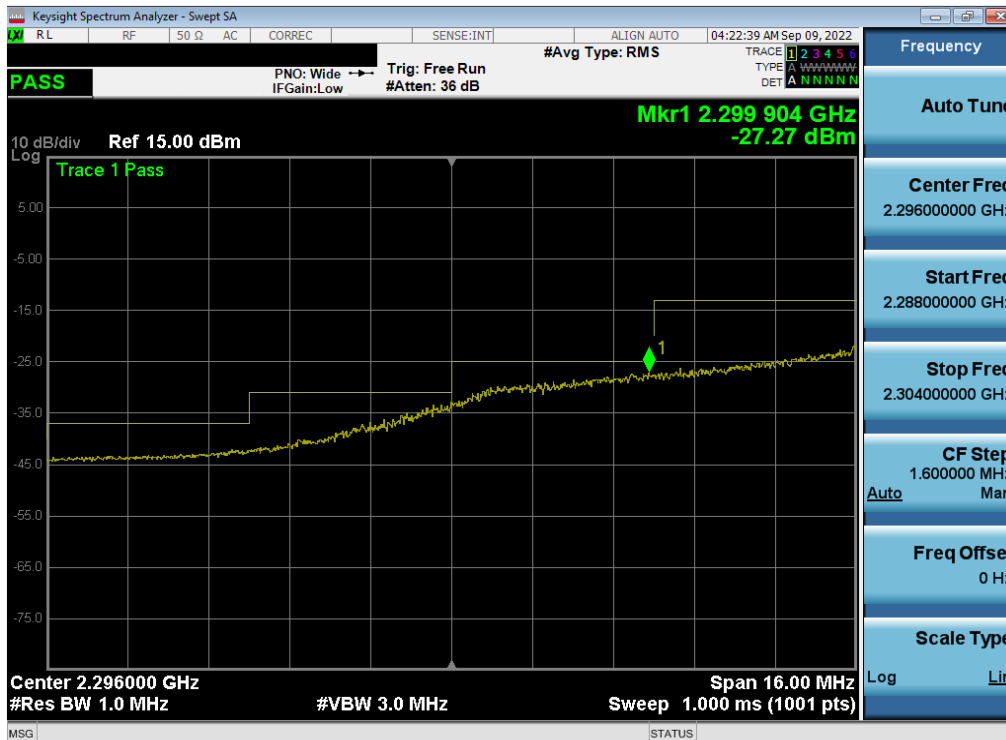
1. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution 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.
2. 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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
3. 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 – Ant A



Plot 7-326. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant A)



Plot 7-327. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant A)

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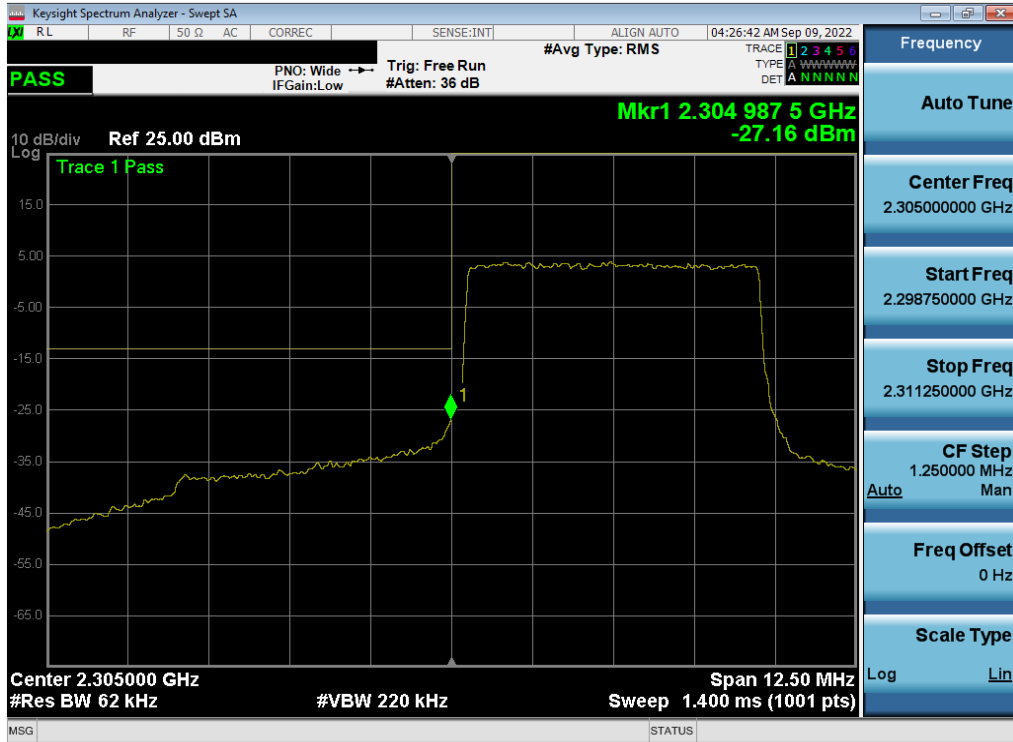


Plot 7-328. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant A)

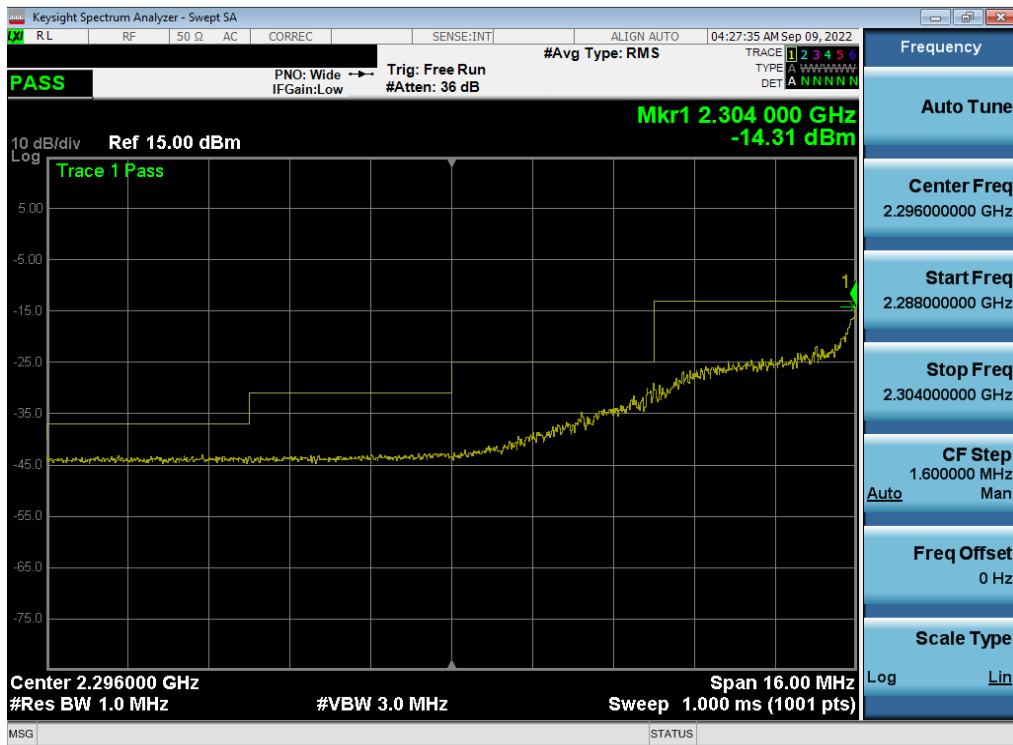


Plot 7-329. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant A)

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Plot 7-330. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant A)

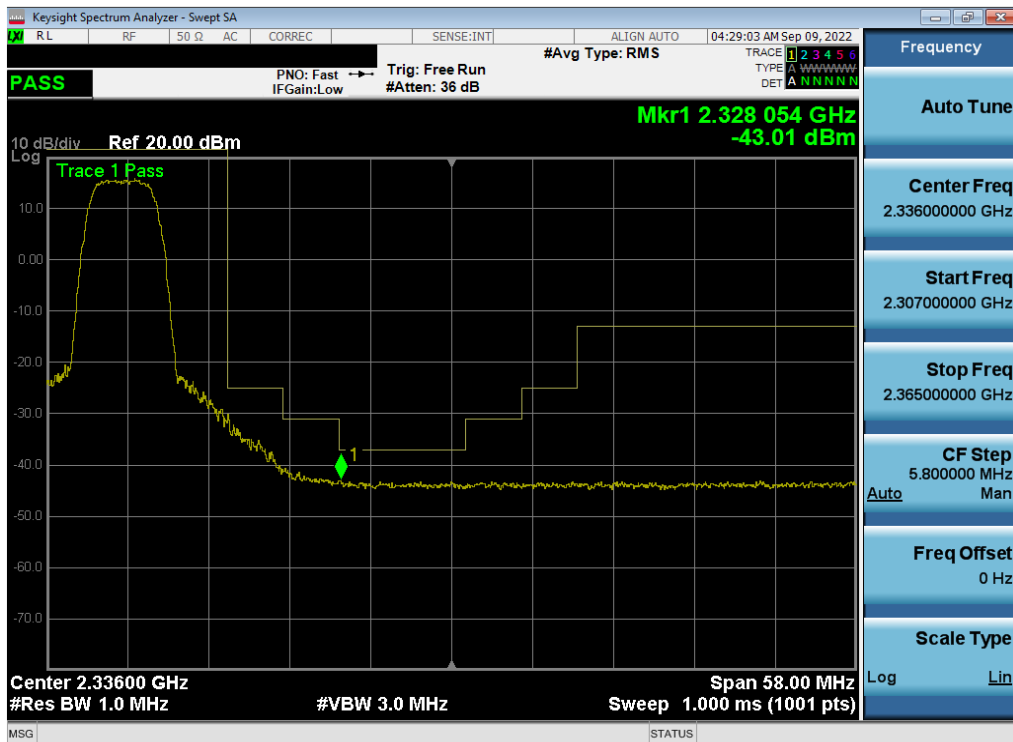


Plot 7-331. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant A)

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Plot 7-332. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant A)

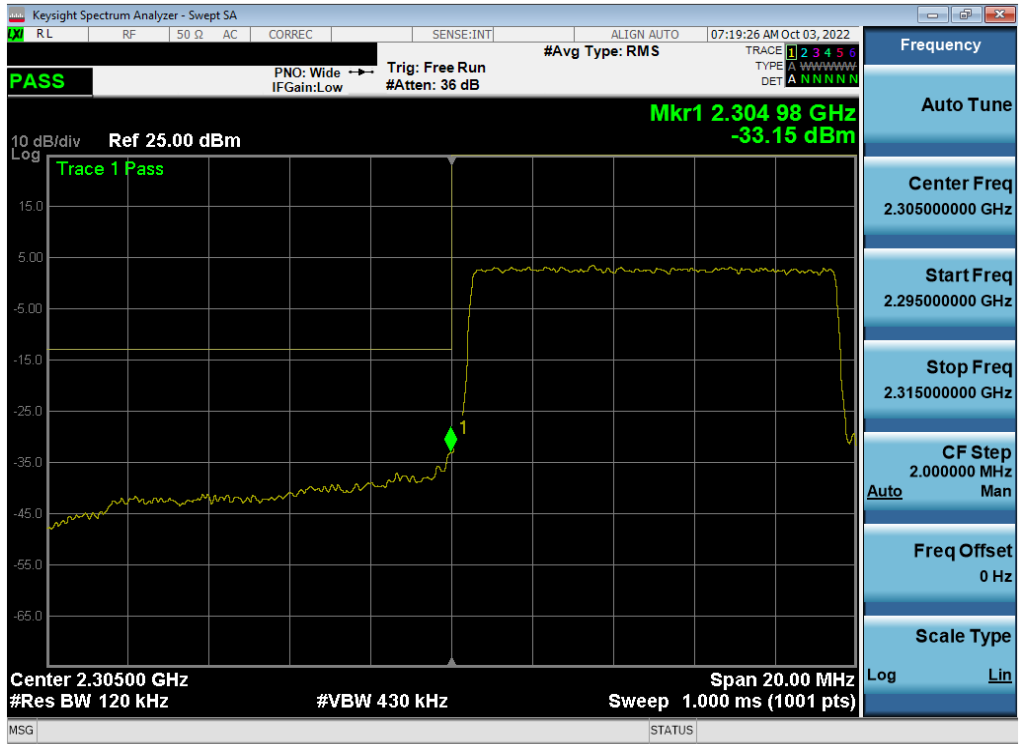


Plot 7-333. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant A)

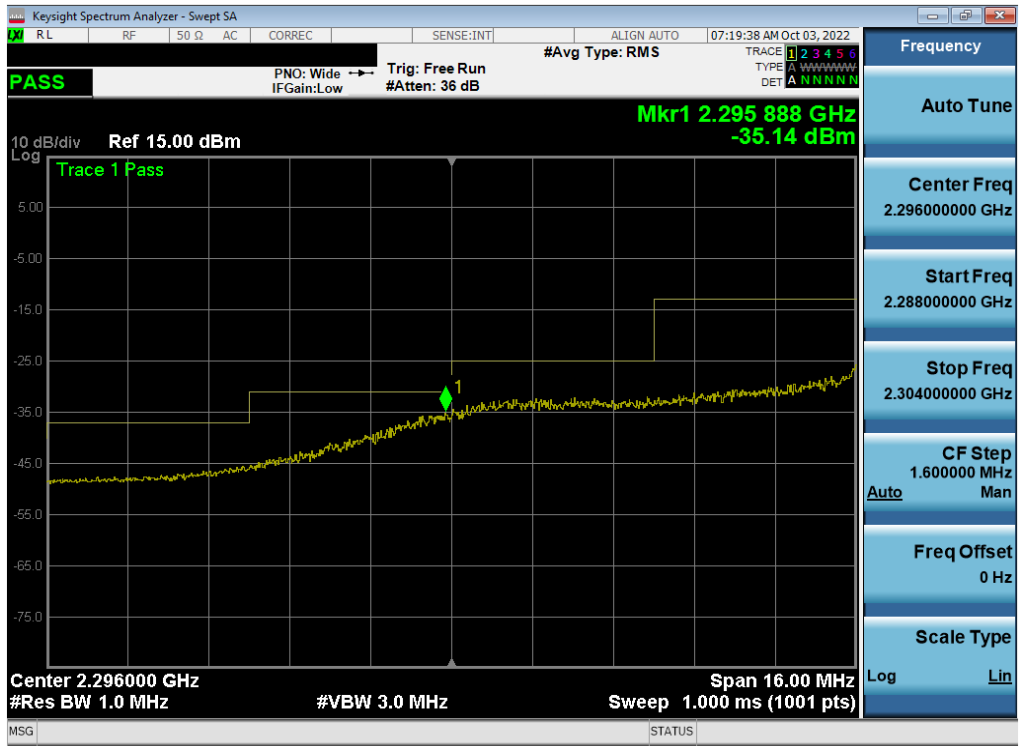
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 30 – Ant F

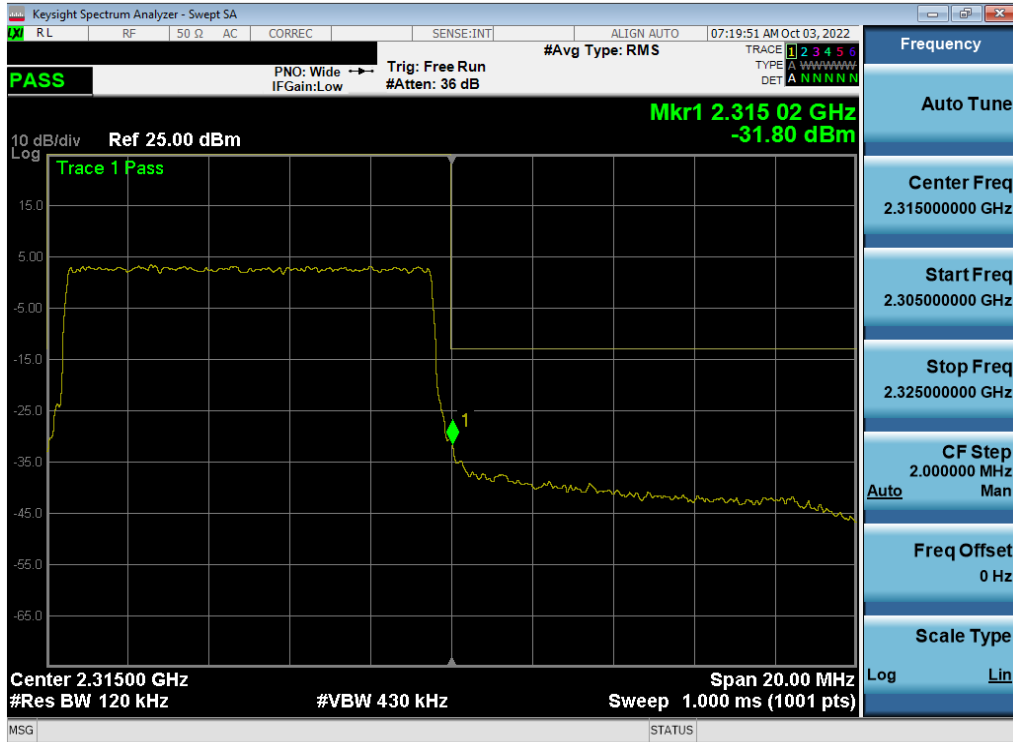


Plot 7-334. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant F)

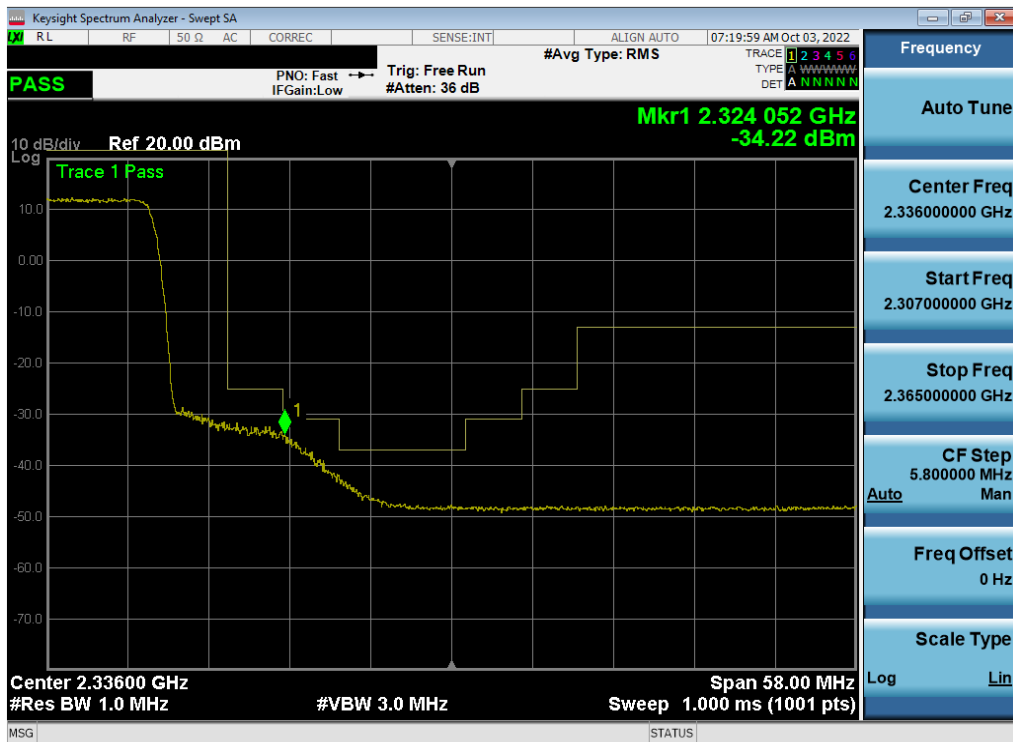


Plot 7-335. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant F)

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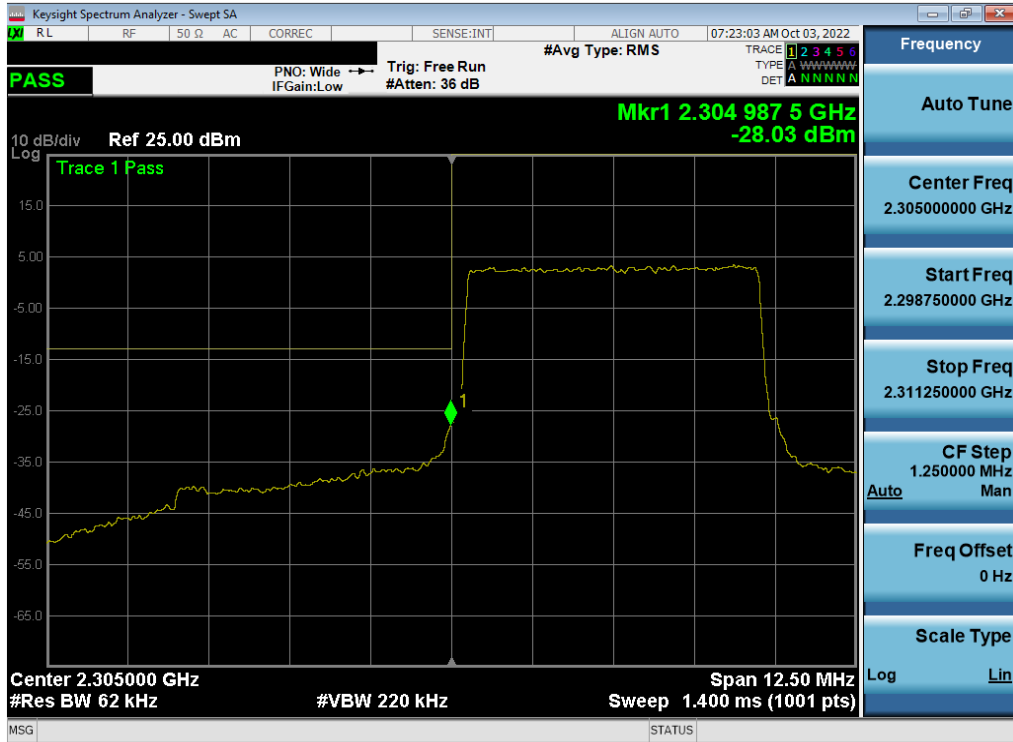


Plot 7-336. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant F)

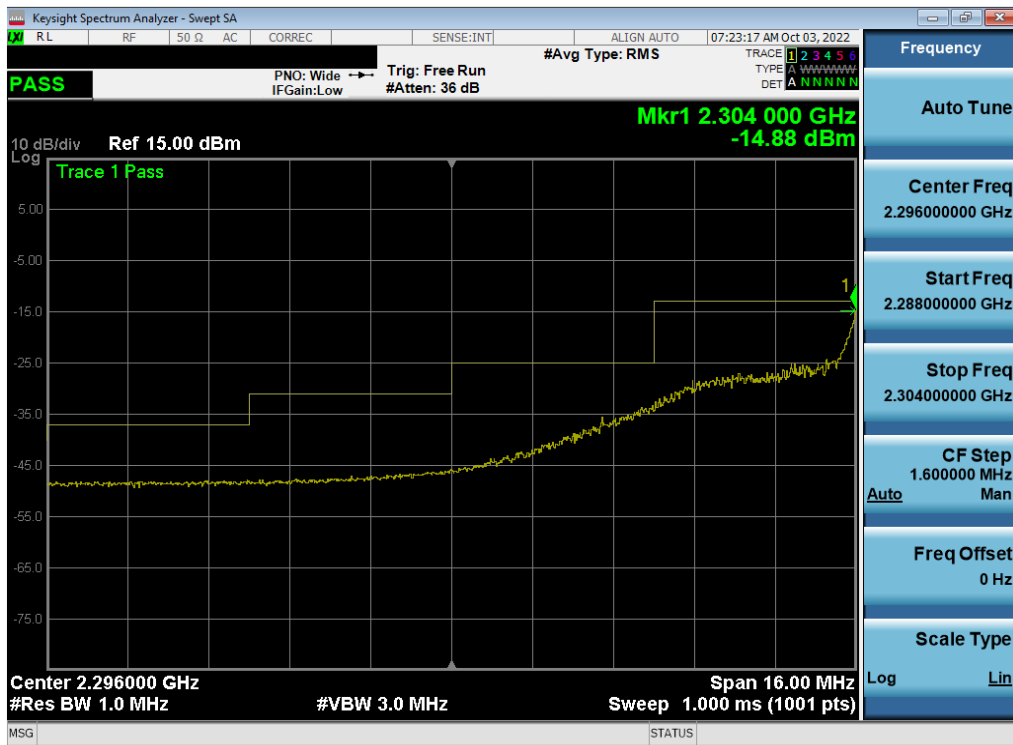


Plot 7-337. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant F)

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Plot 7-338. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant F)

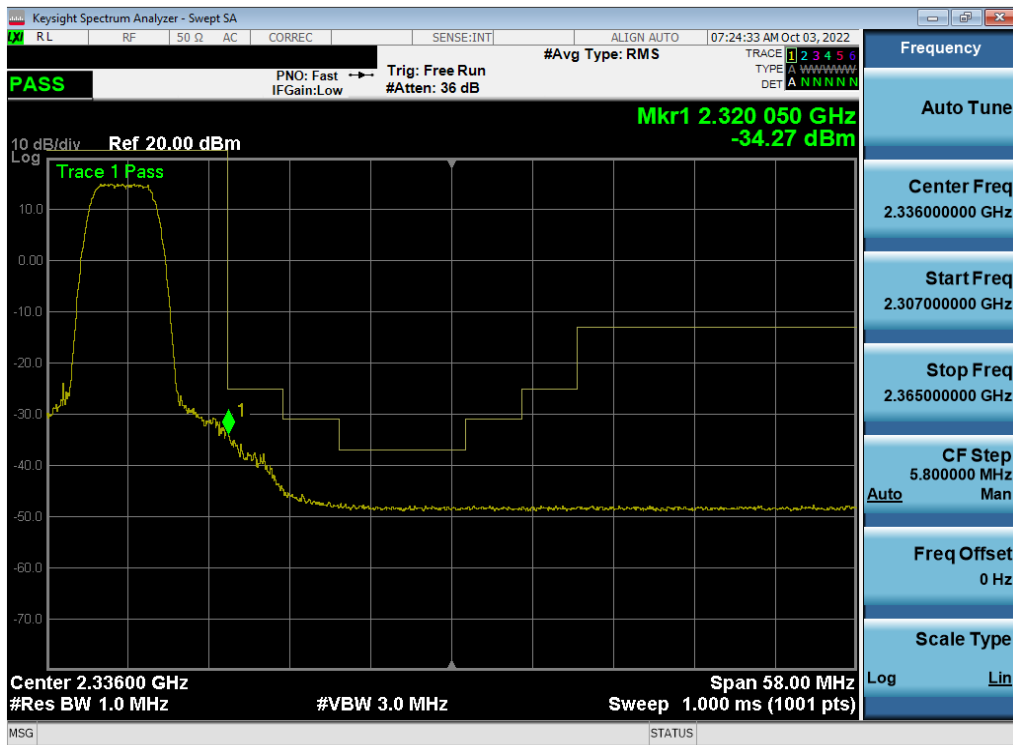


Plot 7-339. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant F)

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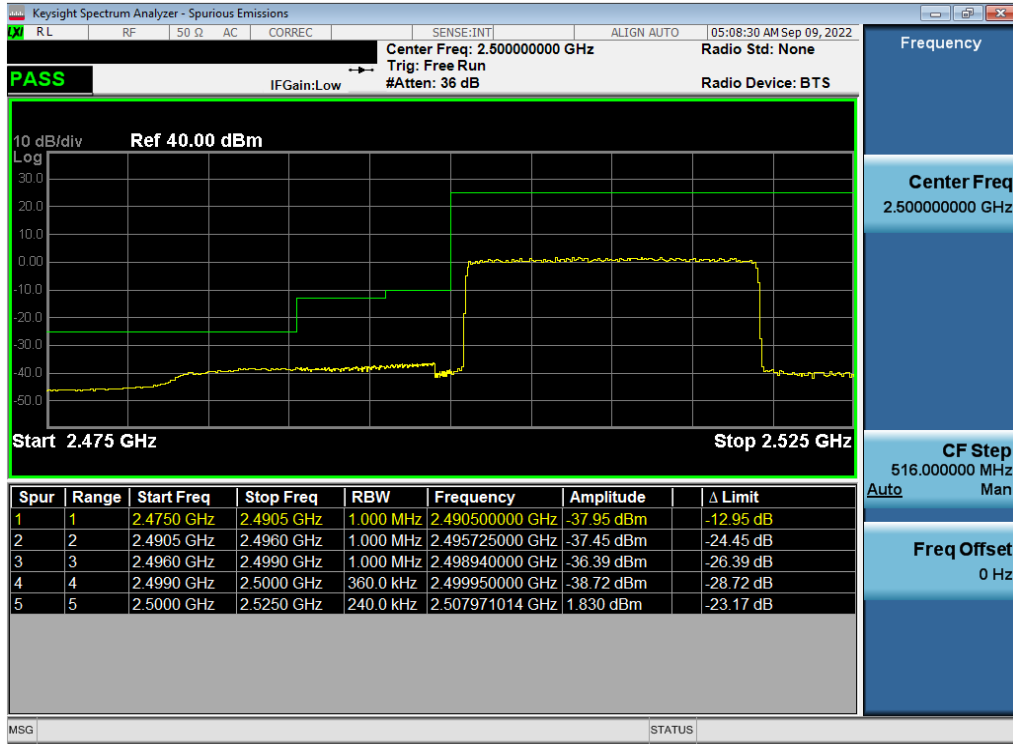
Plot 7-340. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant F)



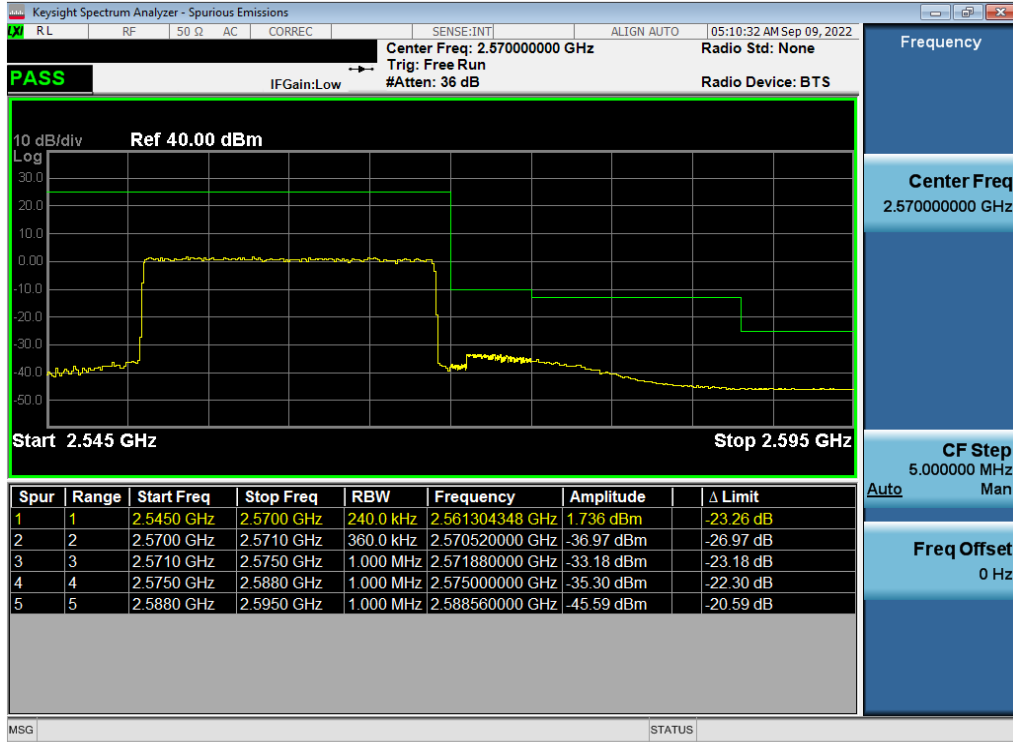
Plot 7-341. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant F)

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LTE Band 7 – Ant B

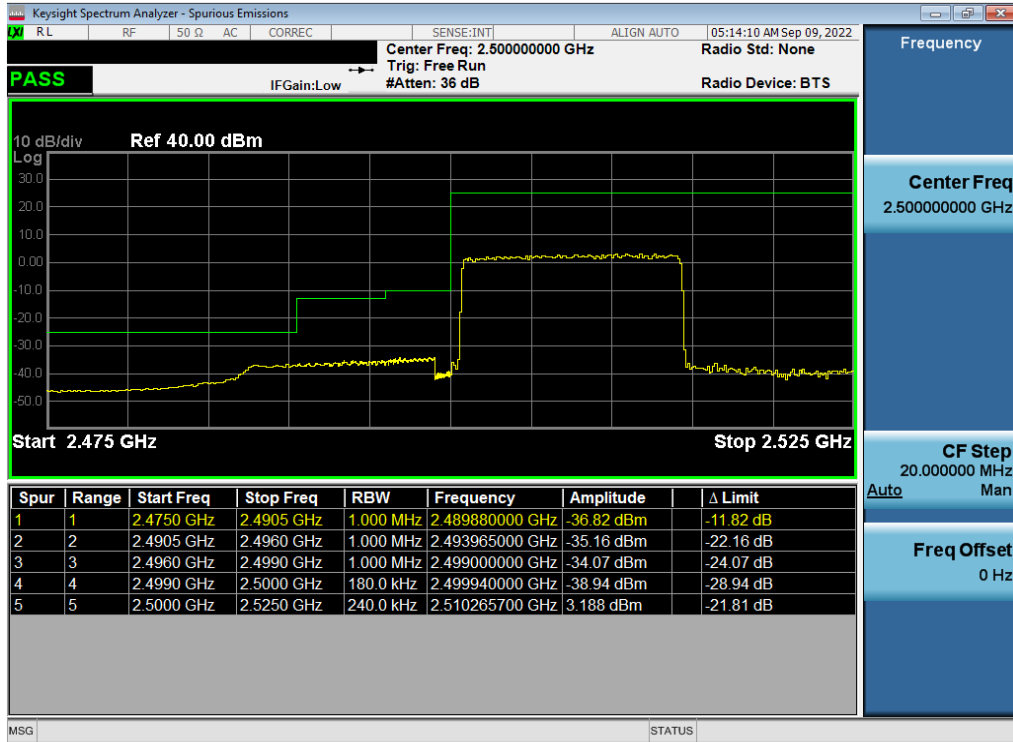


Plot 7-342. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant B)

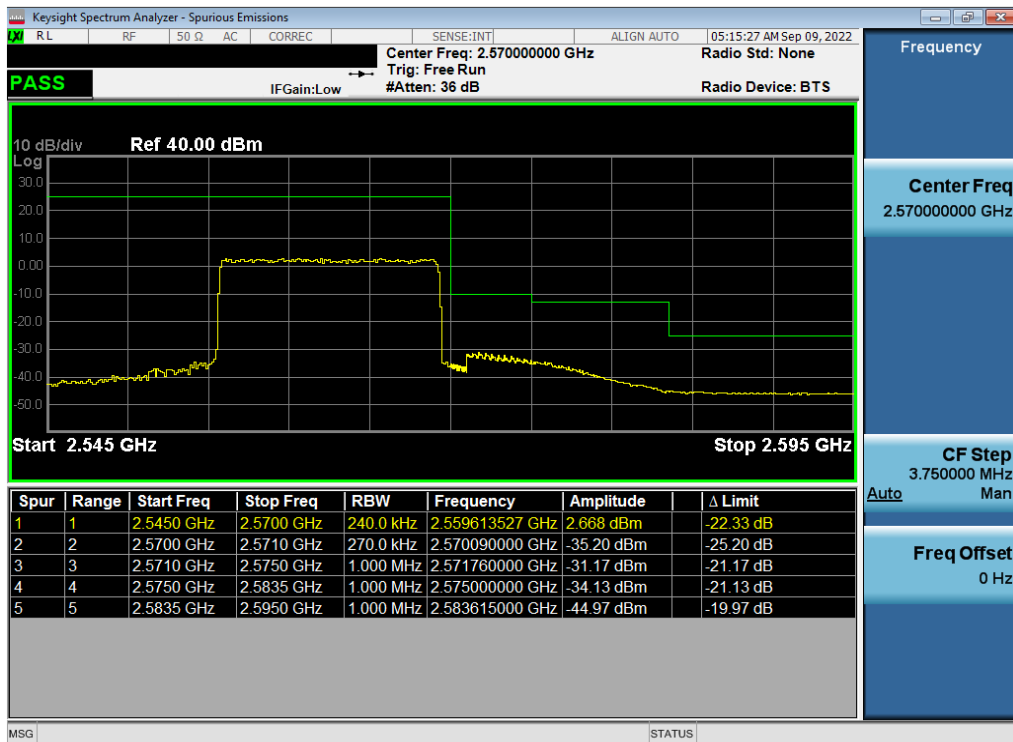


Plot 7-343. Upper ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant B)

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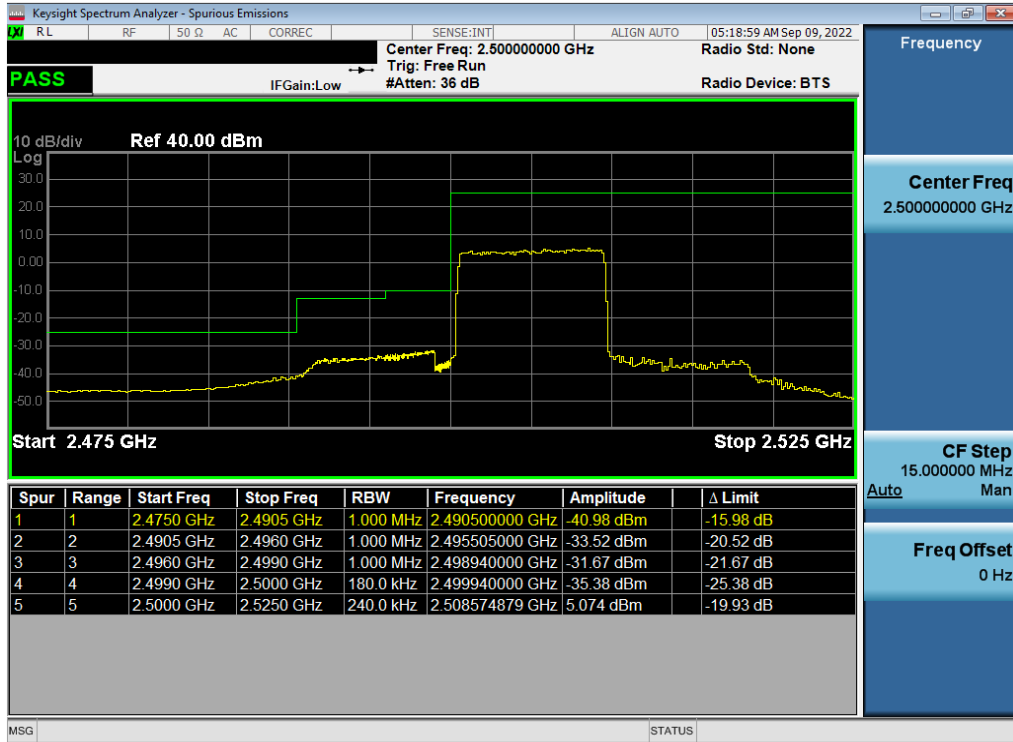


Plot 7-344. Lower ACP Plot (LTE Band 7 - 15MHz QPSK – Full RB - Ant B)

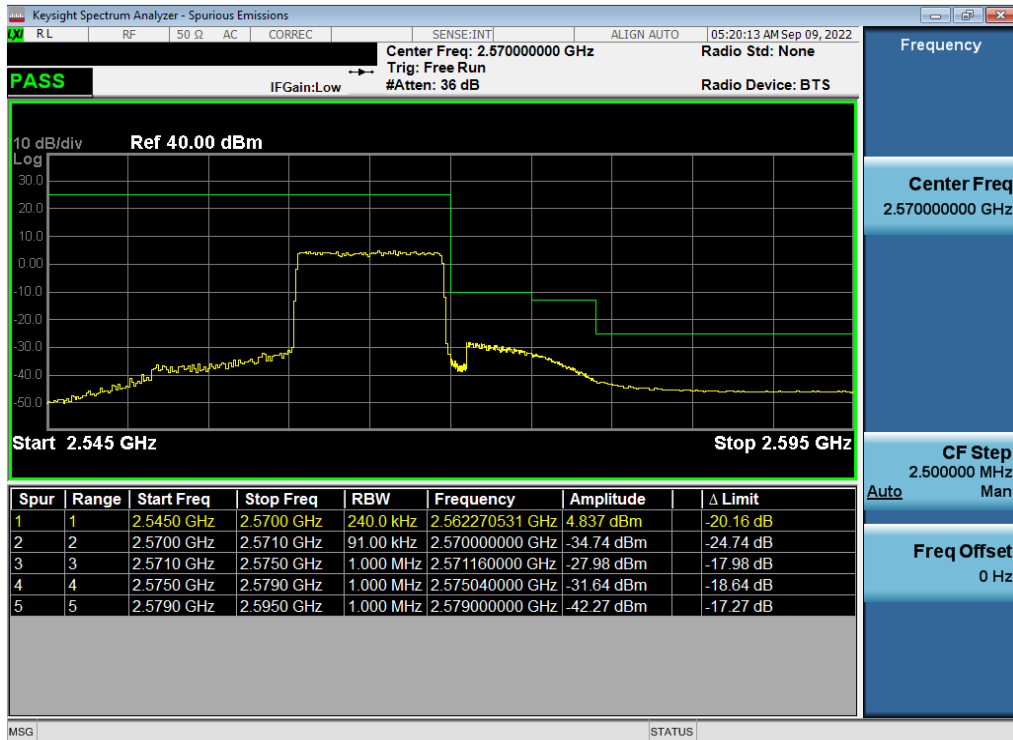


Plot 7-345. Upper ACP Plot (LTE Band 7 - 15MHz QPSK – Full RB - Ant B)

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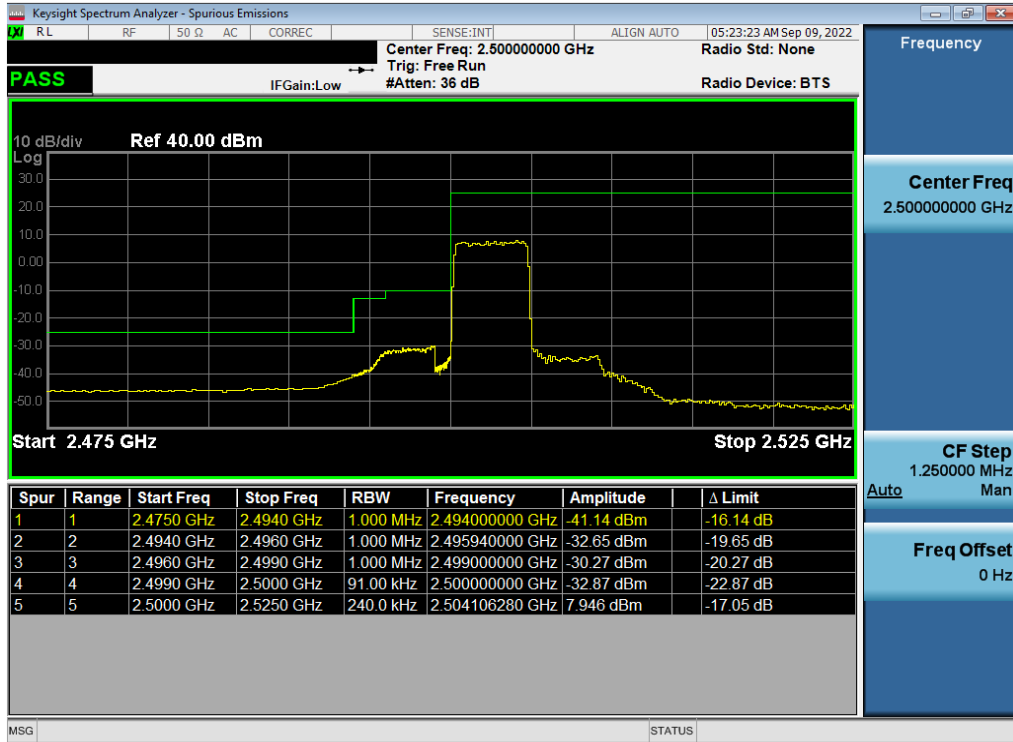


Plot 7-346. Lower ACP Plot (LTE Band 7 - 10MHz QPSK - Full RB - Ant B)

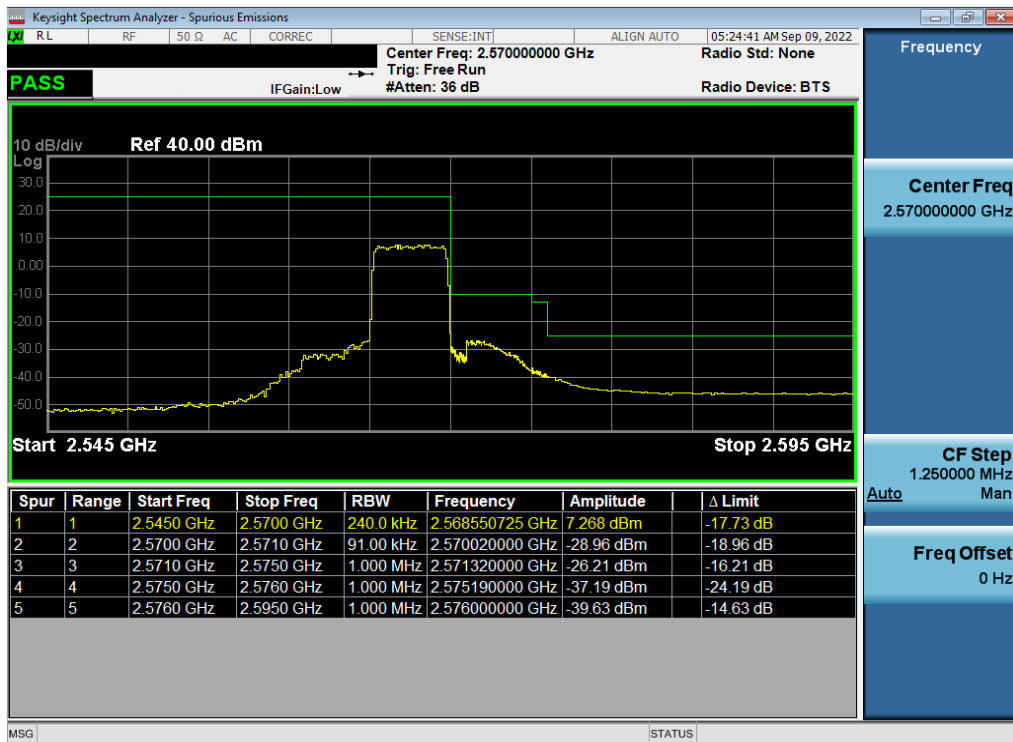


Plot 7-347. Upper ACP Plot (LTE Band 7 - 10MHz QPSK - Full RB - Ant B)

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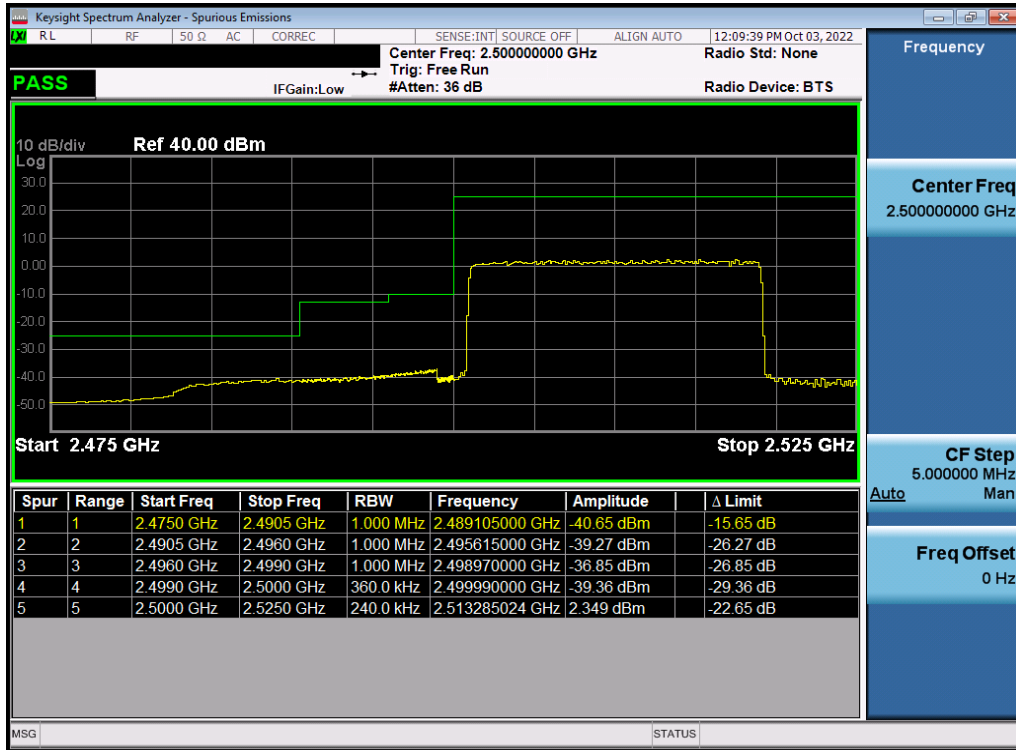
Plot 7-348. Lower ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB - Ant B)



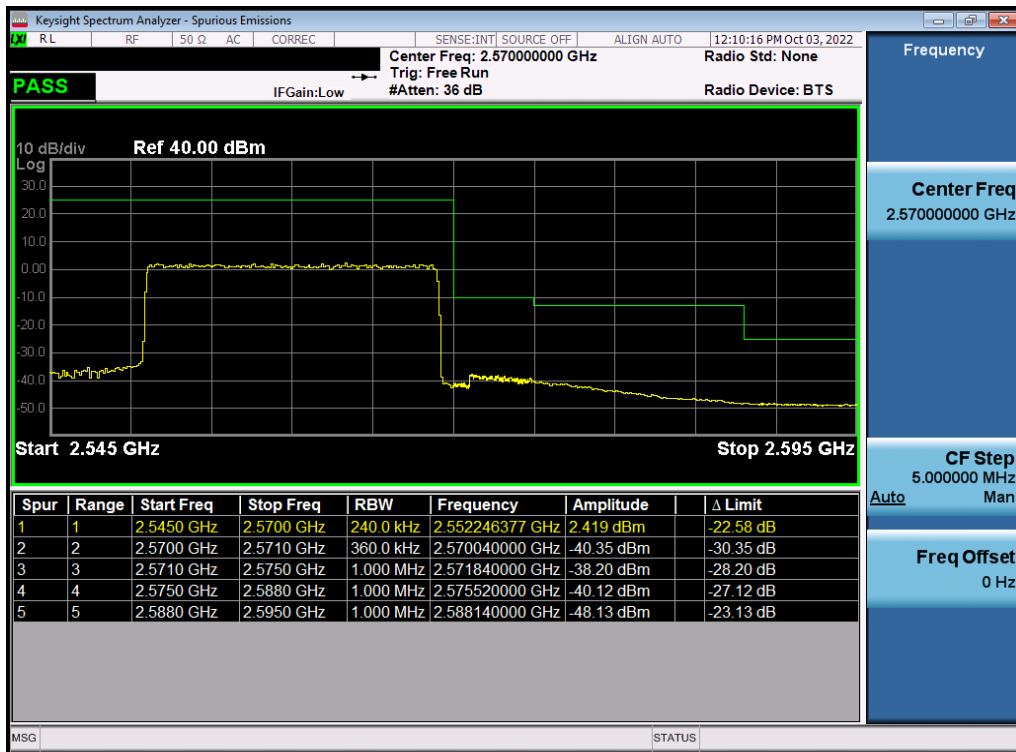
Plot 7-349. Upper ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB - Ant B)

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LTE Band 7 – Ant F

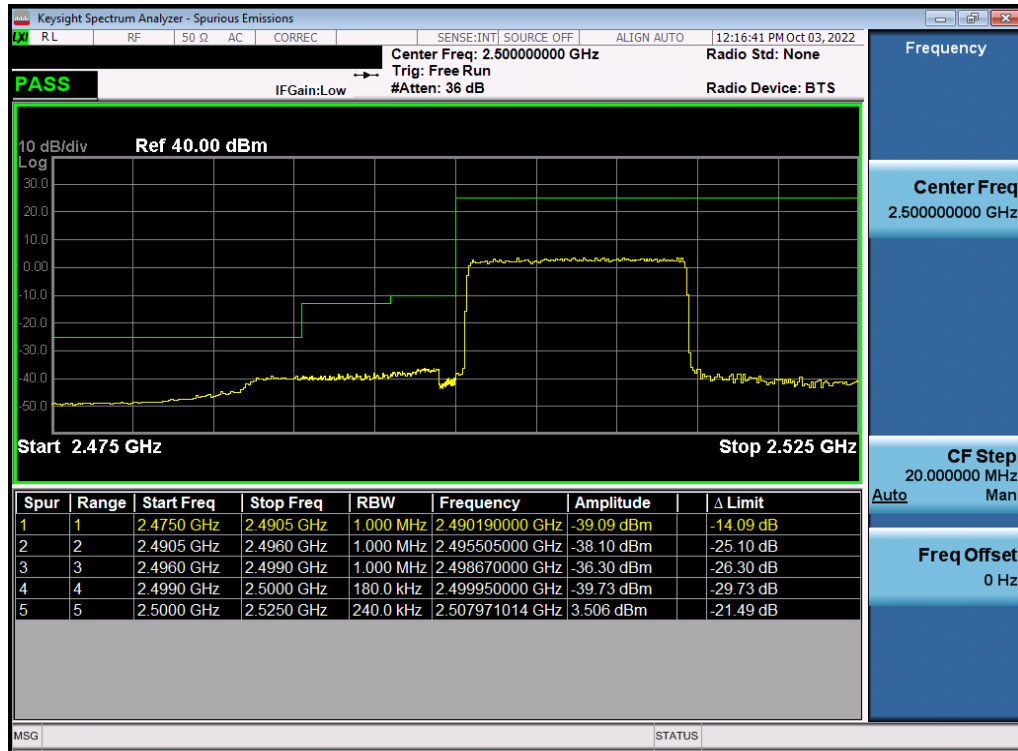


Plot 7-350. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant F)

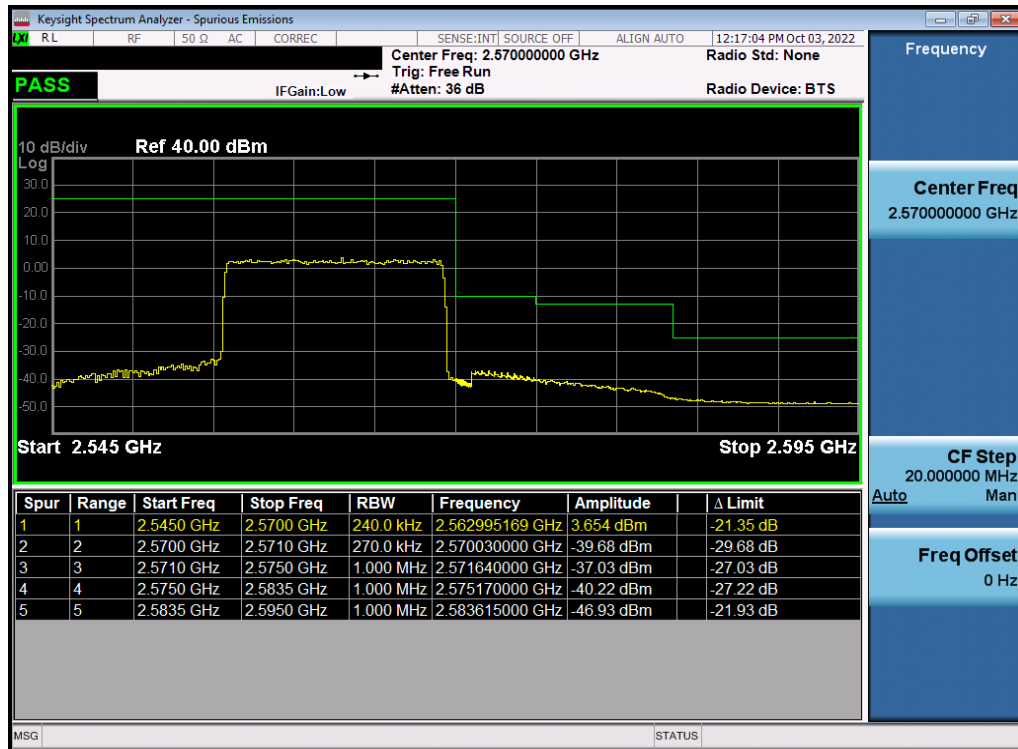


Plot 7-351. Upper ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant F)

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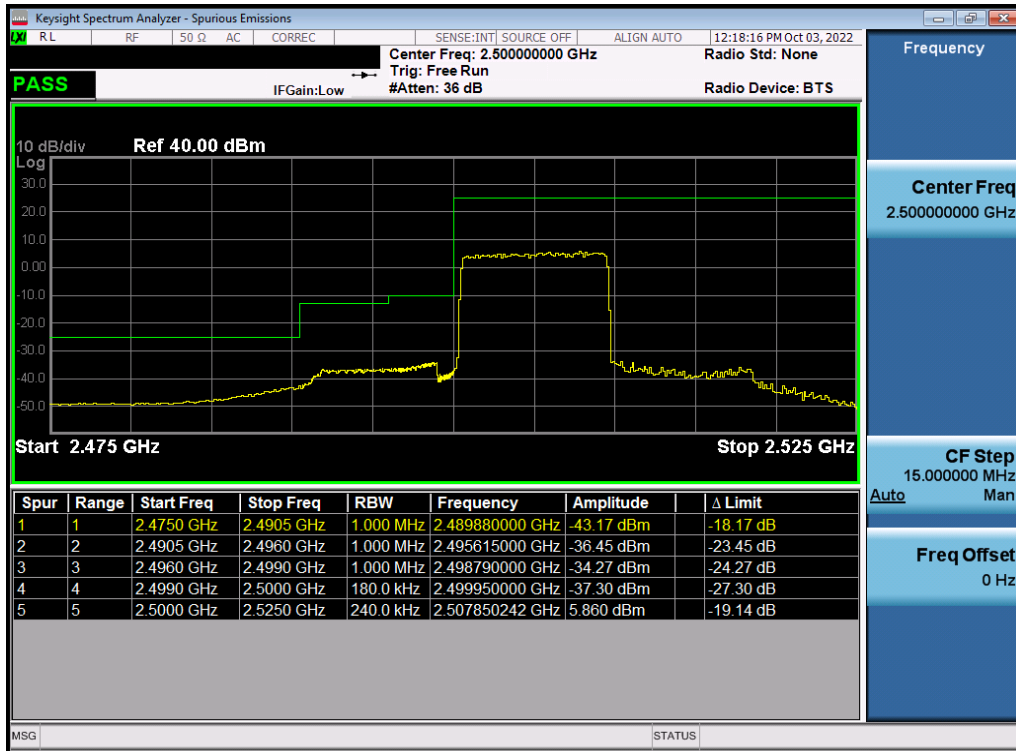


Plot 7-352. Lower ACP Plot (LTE Band 7 - 15MHz QPSK - Full RB - Ant F)

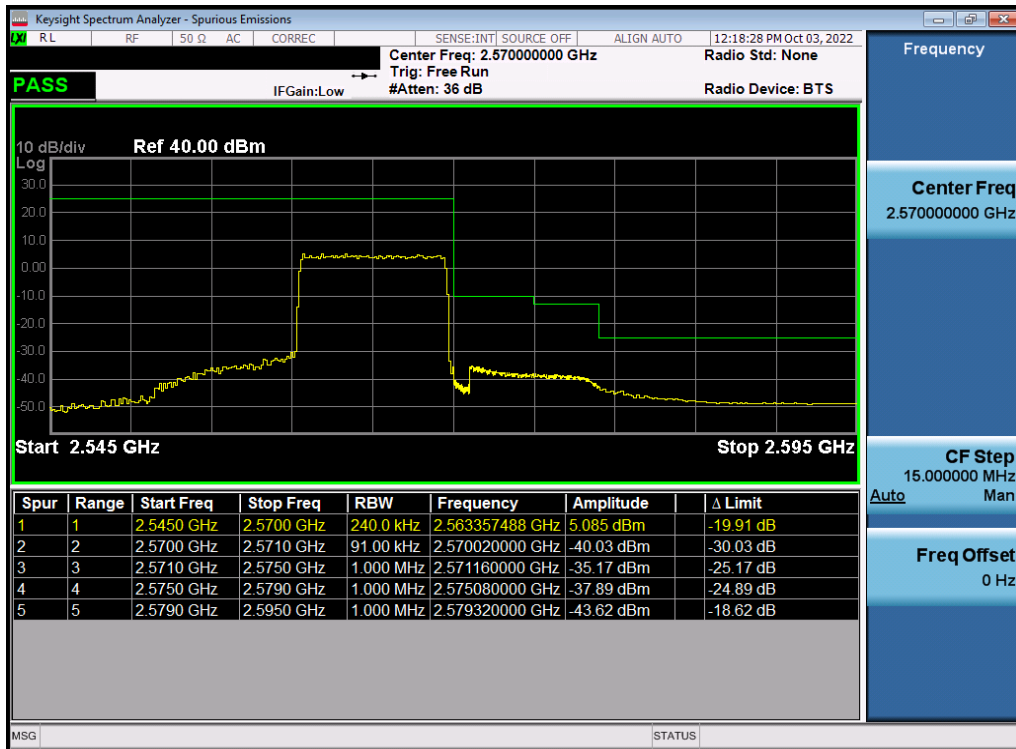


Plot 7-353. Upper ACP Plot (LTE Band 7 - 15MHz QPSK - Full RB - Ant F)

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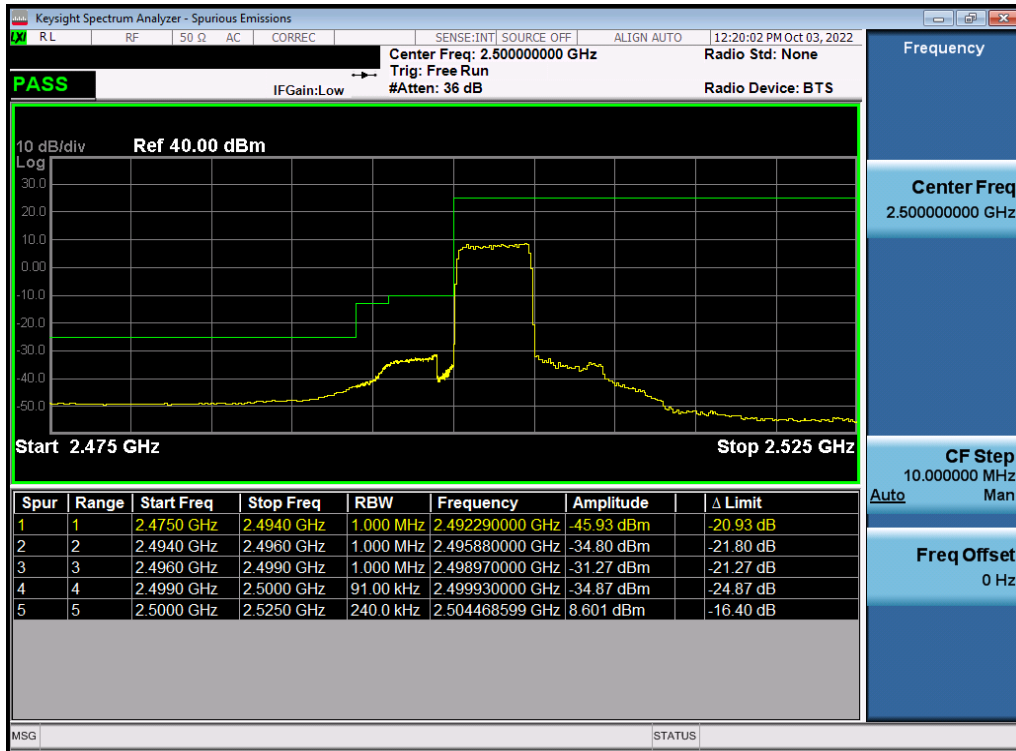


Plot 7-354. Lower ACP Plot (LTE Band 7 - 10MHz QPSK – Full RB - Ant F)

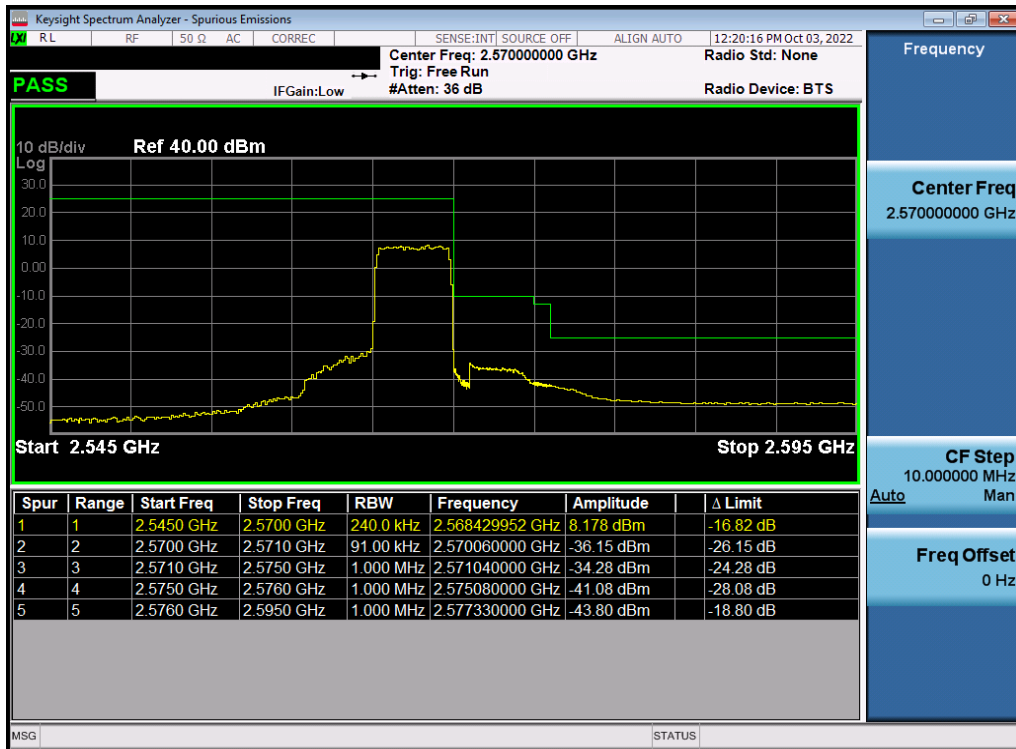


Plot 7-355. Upper ACP Plot (LTE Band 7 - 10MHz QPSK – Full RB - Ant F)

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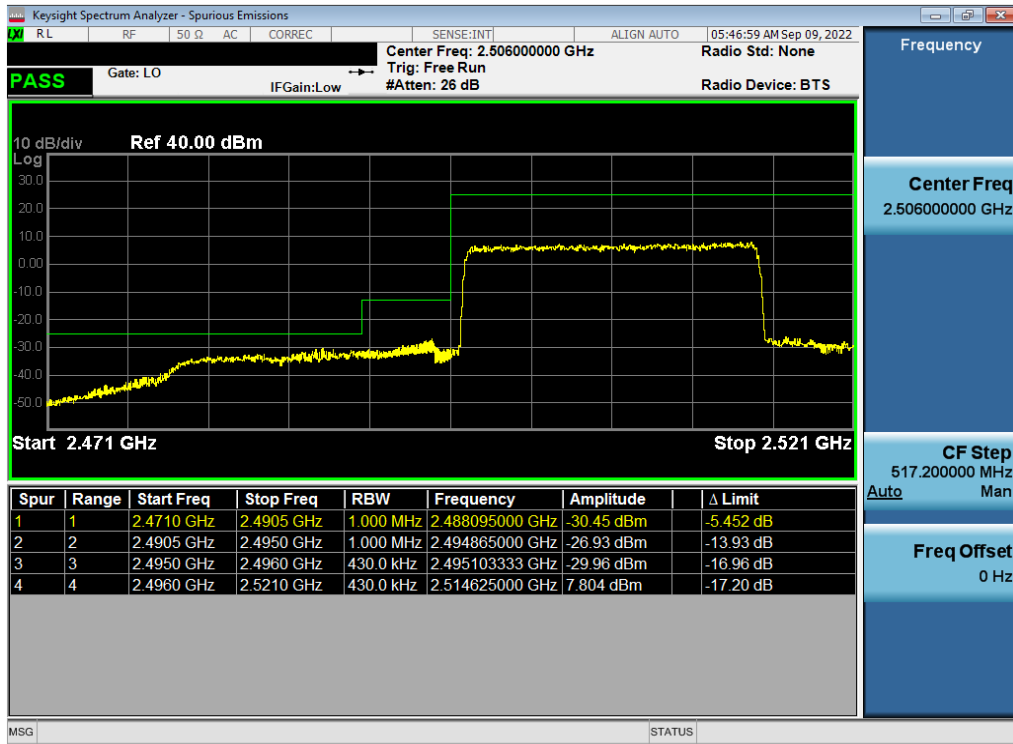
Plot 7-356. Lower ACP Plot (LTE Band 7 - 5MHz QPSK - Full RB - Ant F)



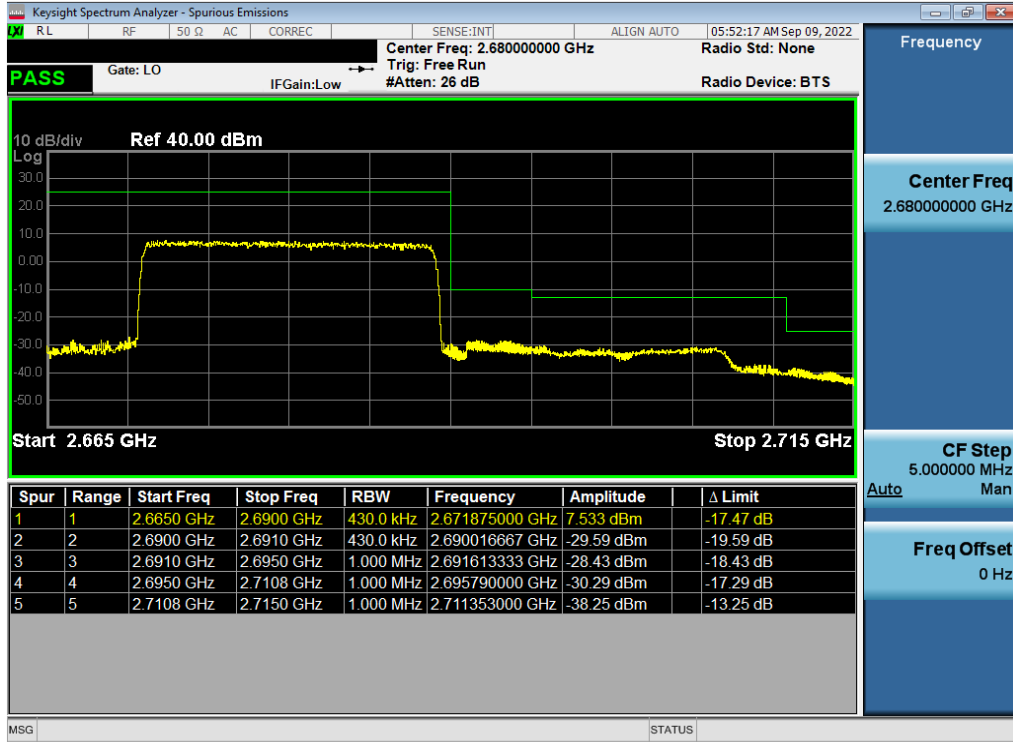
Plot 7-357. Upper ACP Plot (LTE Band 7 - 5MHz QPSK - Full RB - Ant F)

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LTE Band 41(PC2) – Ant B

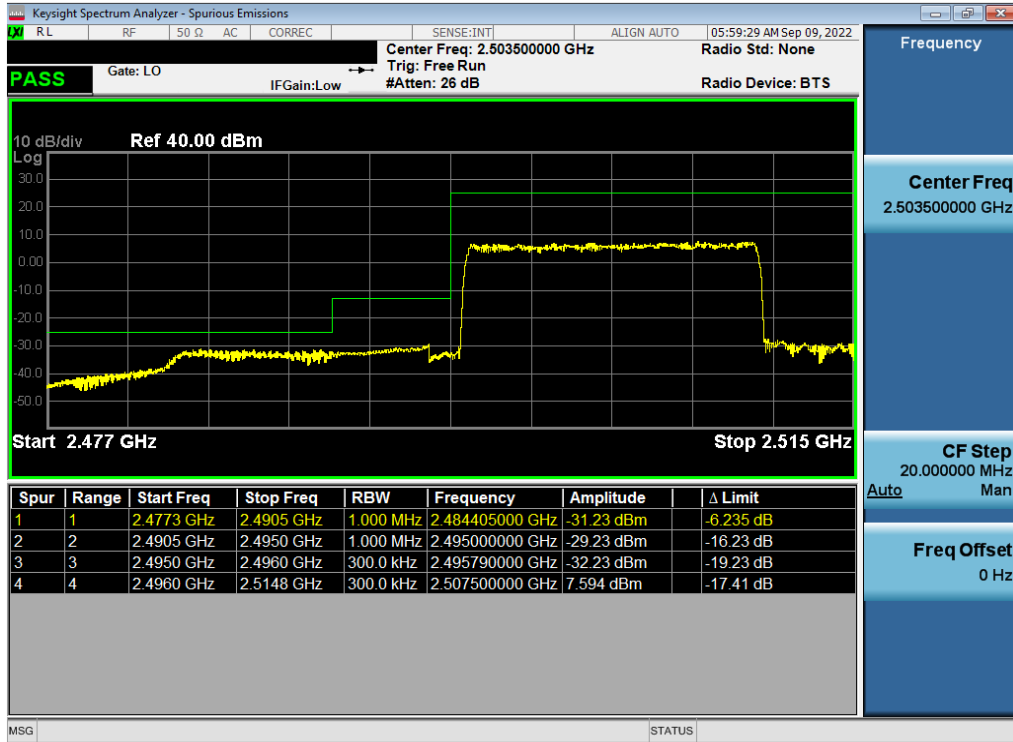


Plot 7-358. Lower ACP Plot (LTE Band 41(PC2) – 20MHz QPSK – Full RB - Ant B)

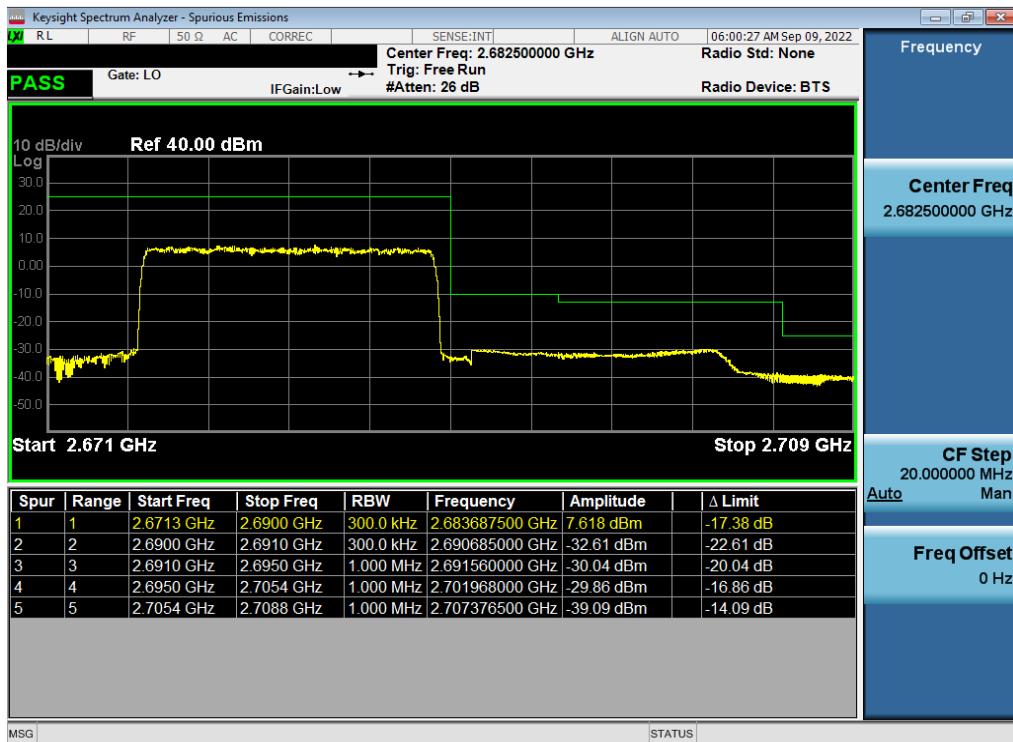


Plot 7-359. Upper ACP Plot (LTE Band 41(PC2) – 20MHz QPSK – Full RB - Ant B)

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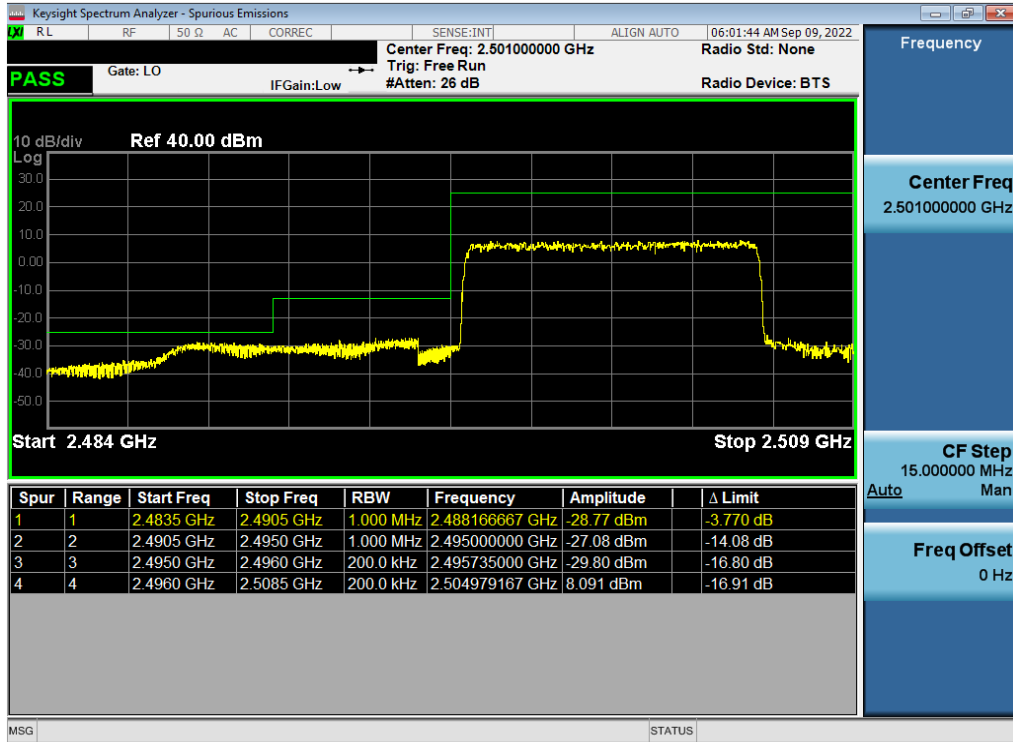


Plot 7-360. Lower ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant B)

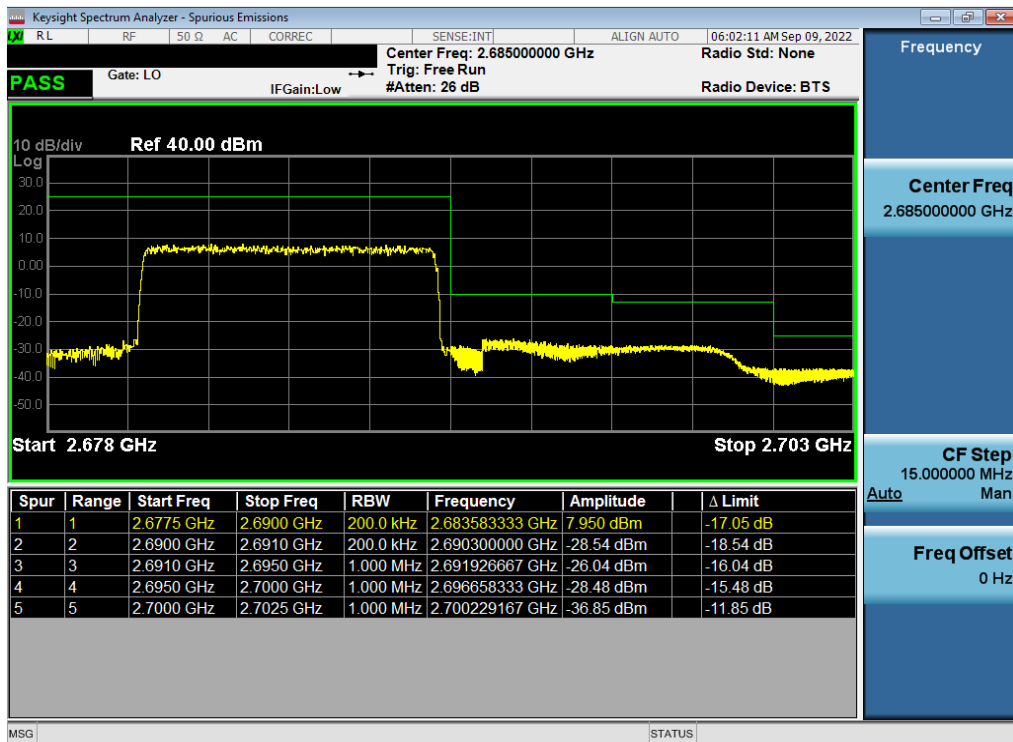


Plot 7-361. Upper ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant B)

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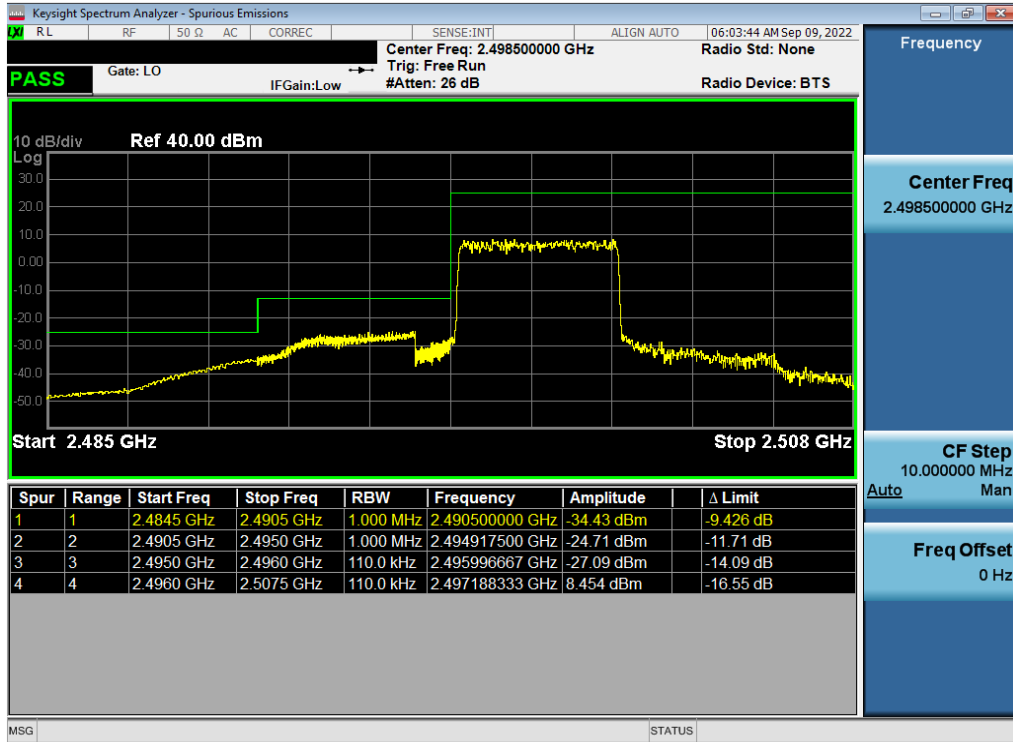


Plot 7-362. Lower ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB - Ant B)

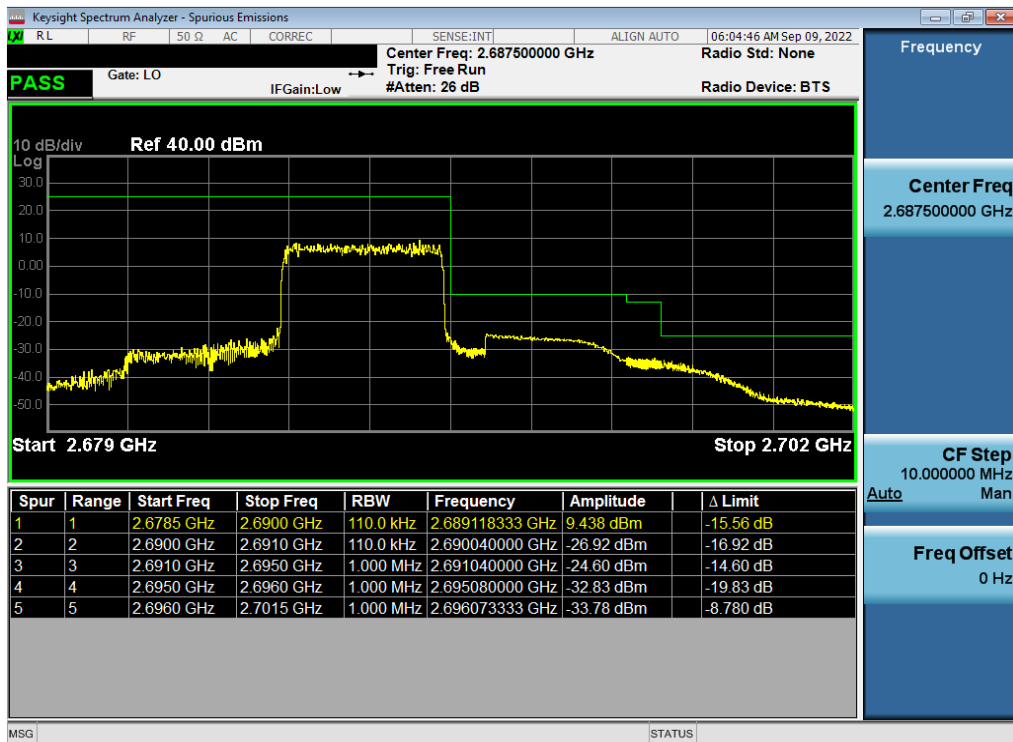


Plot 7-363. Upper ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB - Ant B)

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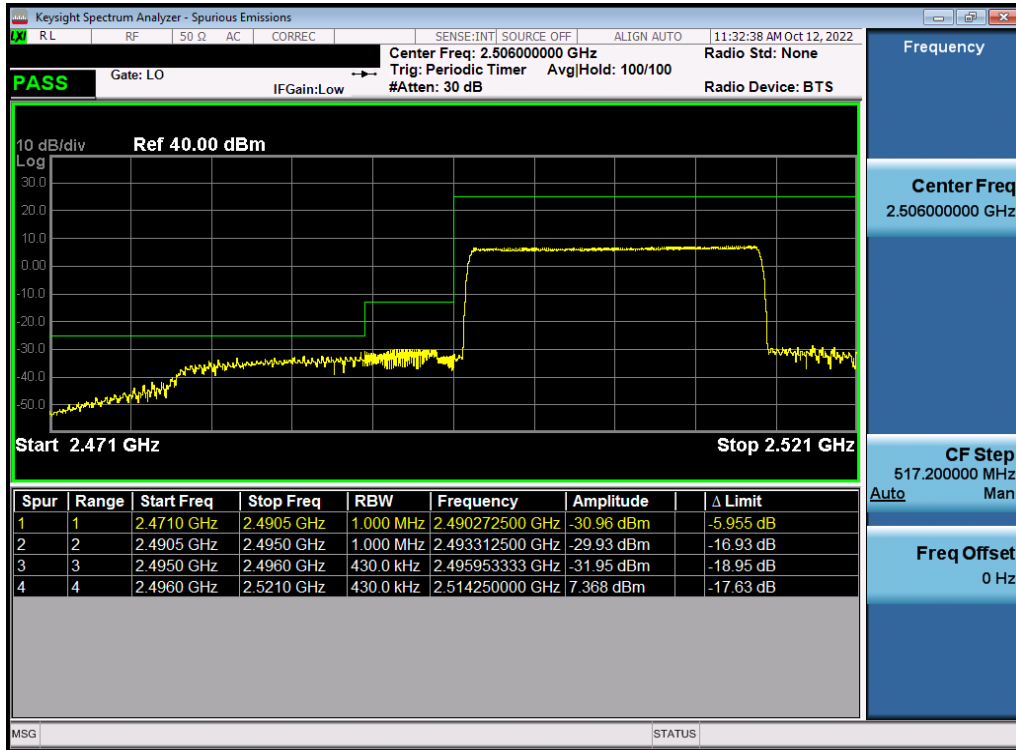
Plot 7-364. Lower ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB - Ant B)



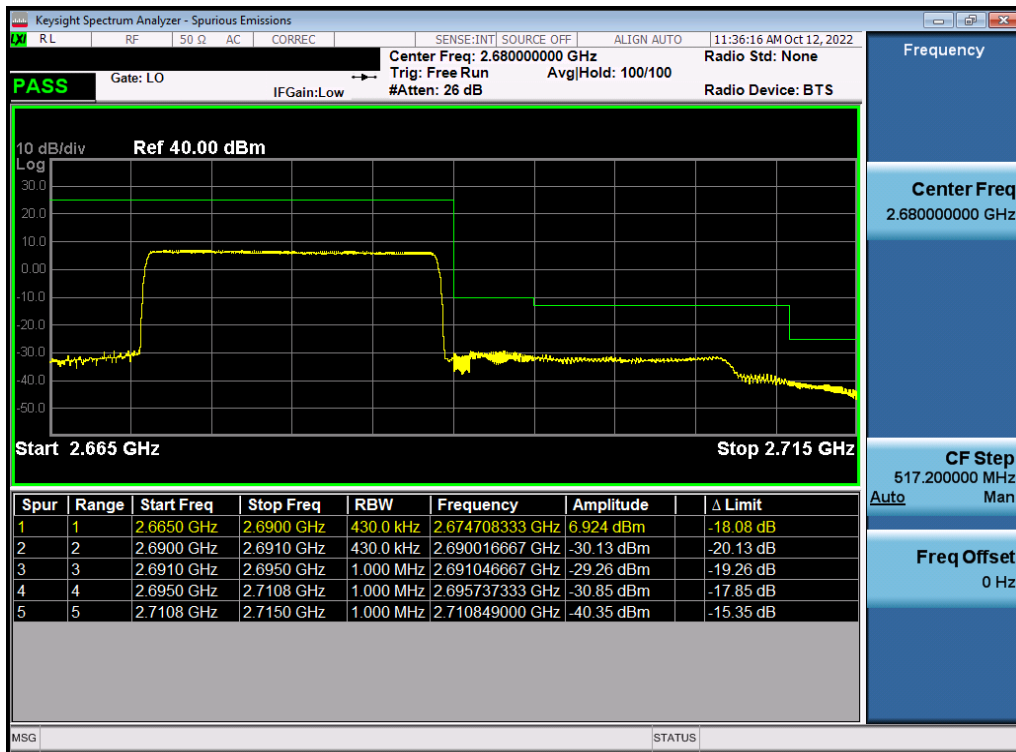
Plot 7-365. Upper ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB - Ant B)

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LTE Band 41(PC2) – Ant F

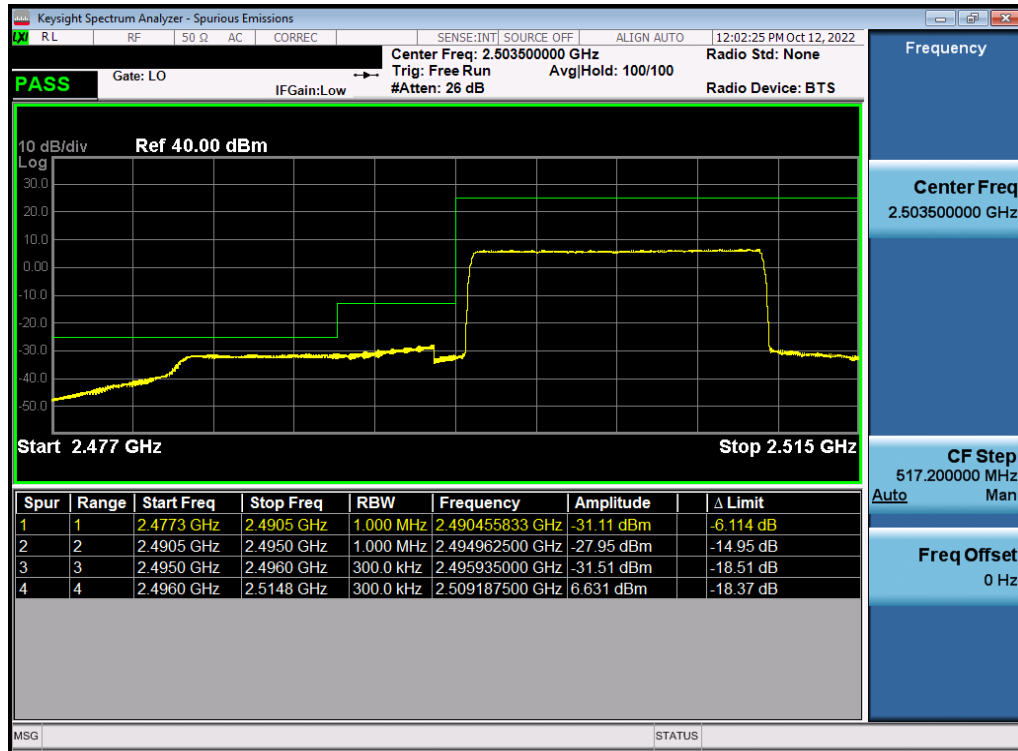


Plot 7-366. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant F)

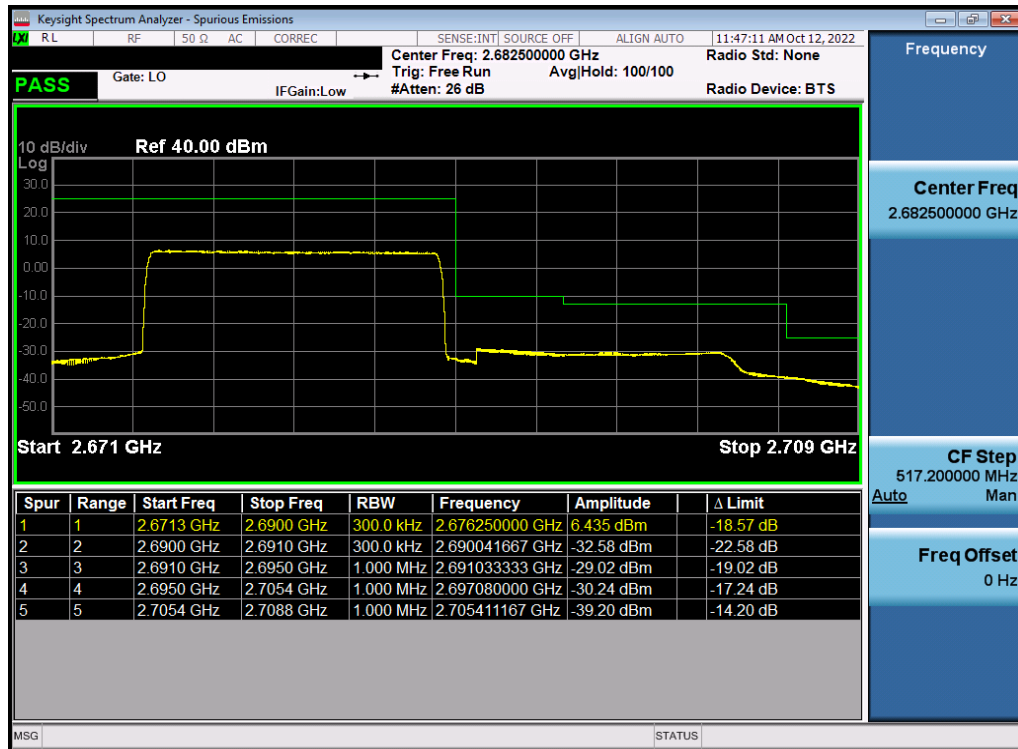


Plot 7-367. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant F)

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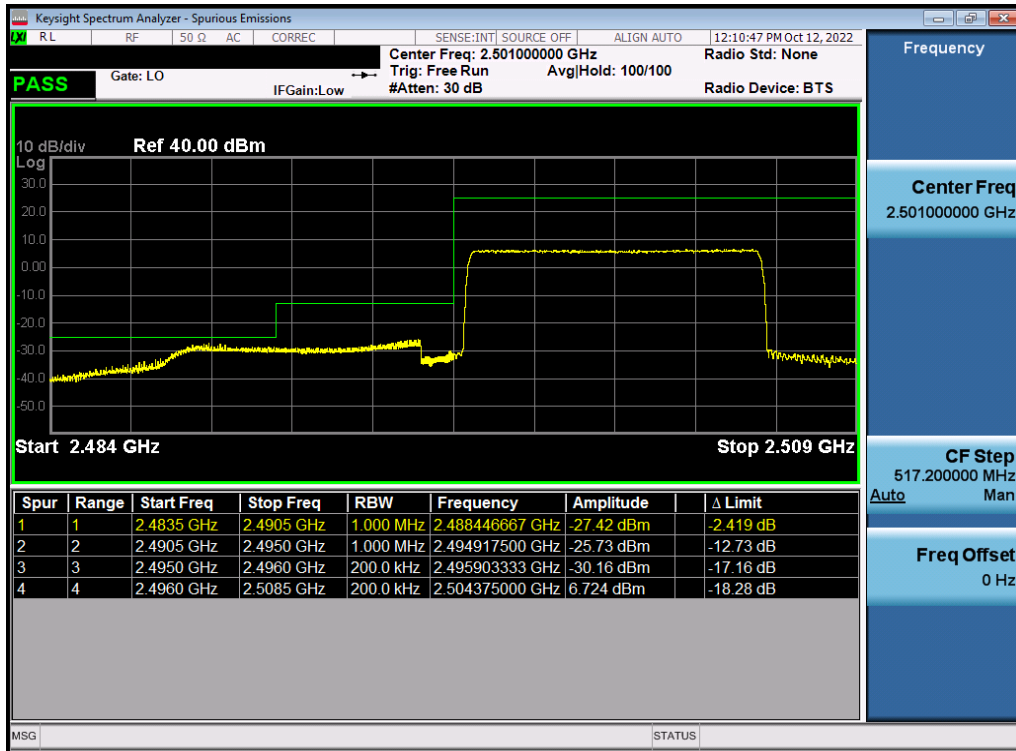


Plot 7-368. Lower ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant F)

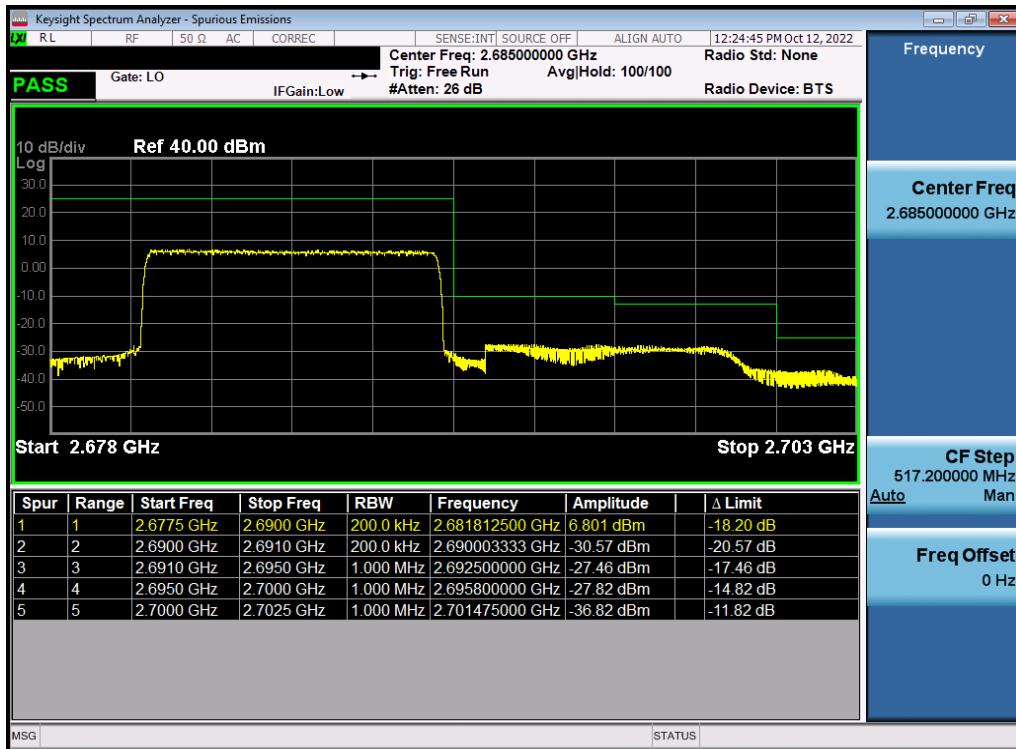


Plot 7-369. Upper ACP Plot (LTE Band 41(PC2) - 15MHz QPSK – Full RB - Ant F)

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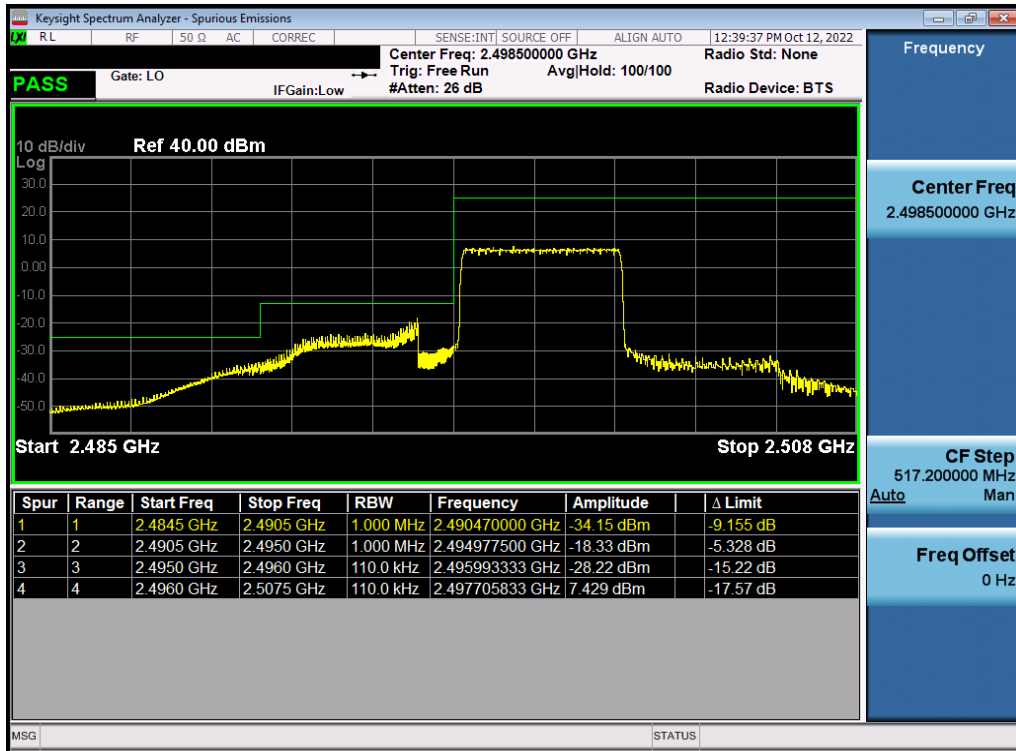


Plot 7-370. Lower ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB - Ant F)

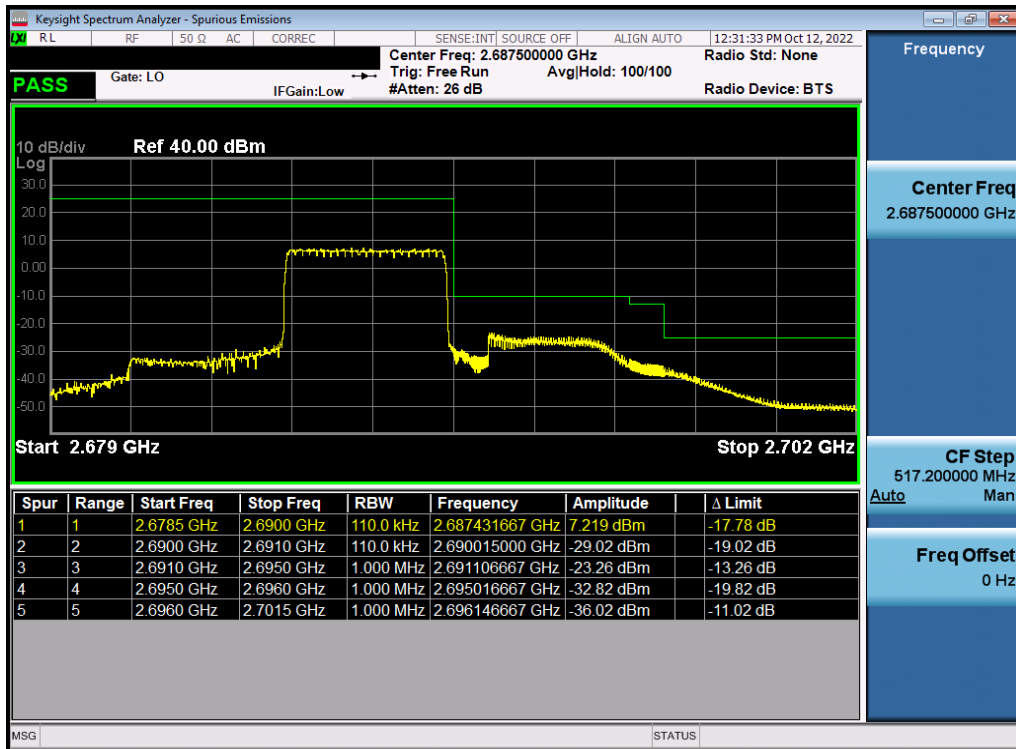


Plot 7-371. Upper ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB - Ant F)

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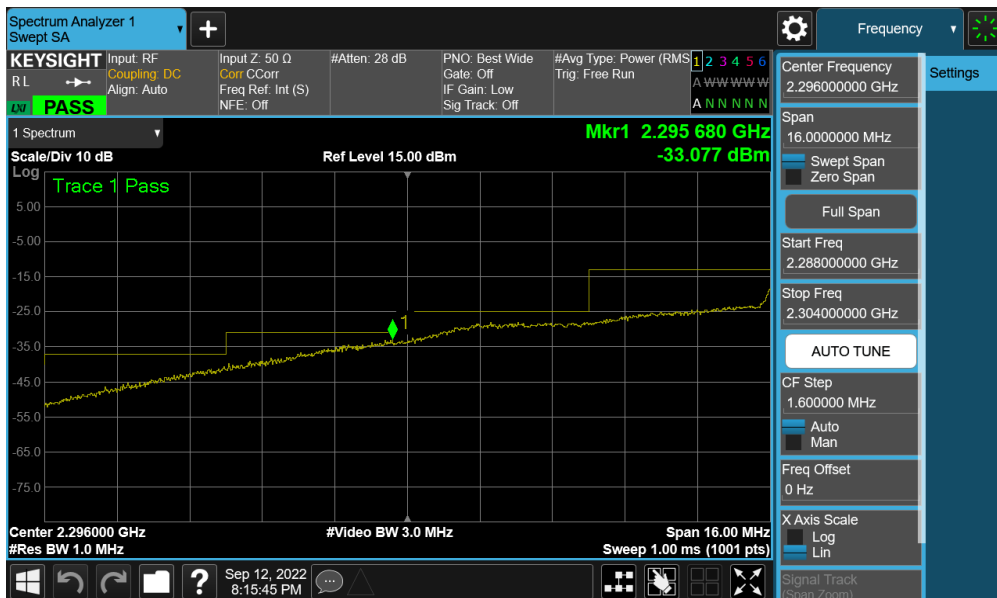
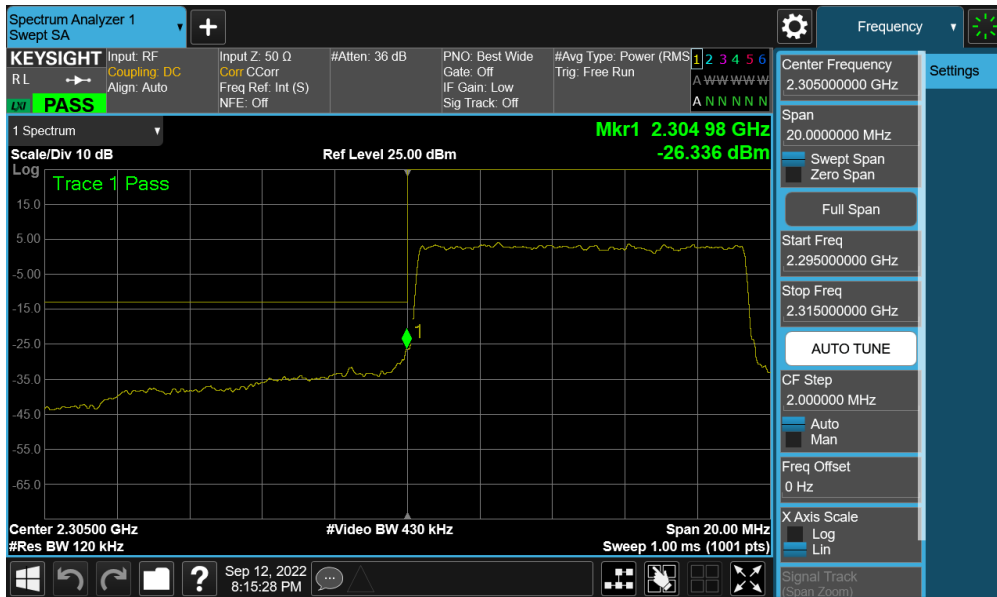
Plot 7-372. Lower ACP Plot (LTE Band 41(PC2) - 5MHz QPSK - Full RB - Ant F)



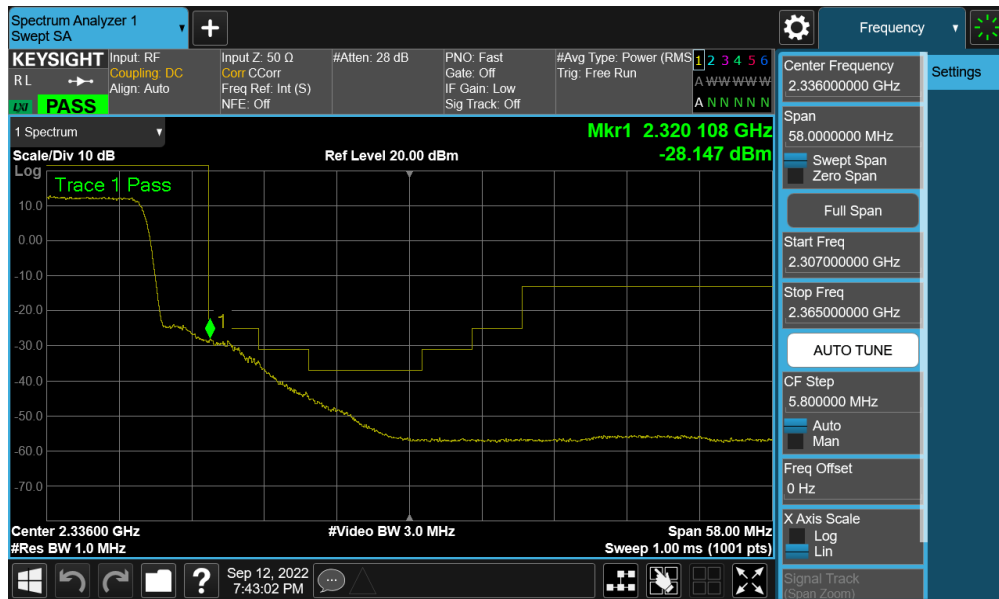
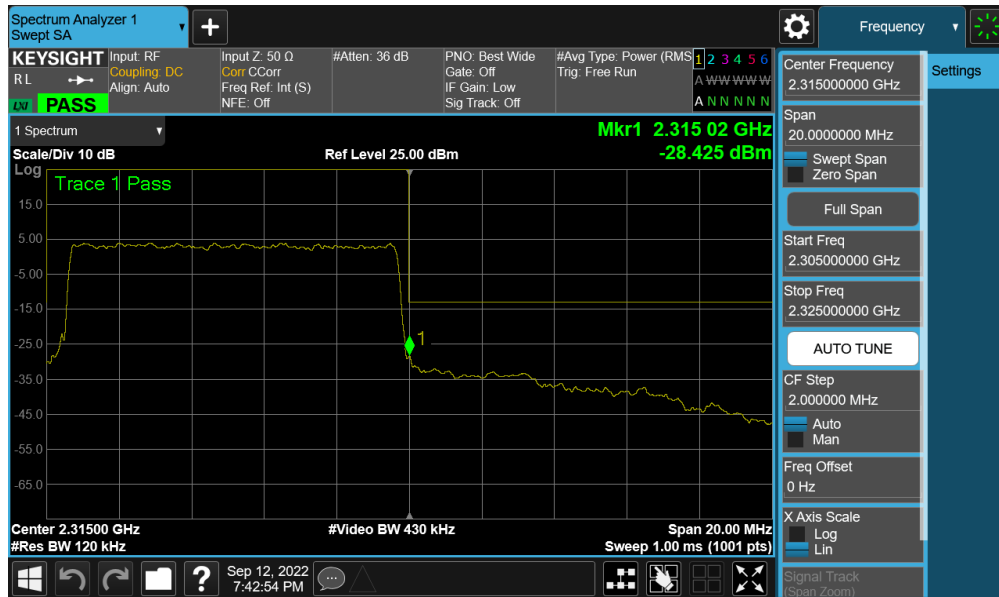
Plot 7-373. Upper ACP Plot (LTE Band 41(PC2) - 5MHz QPSK - Full RB - Ant F)

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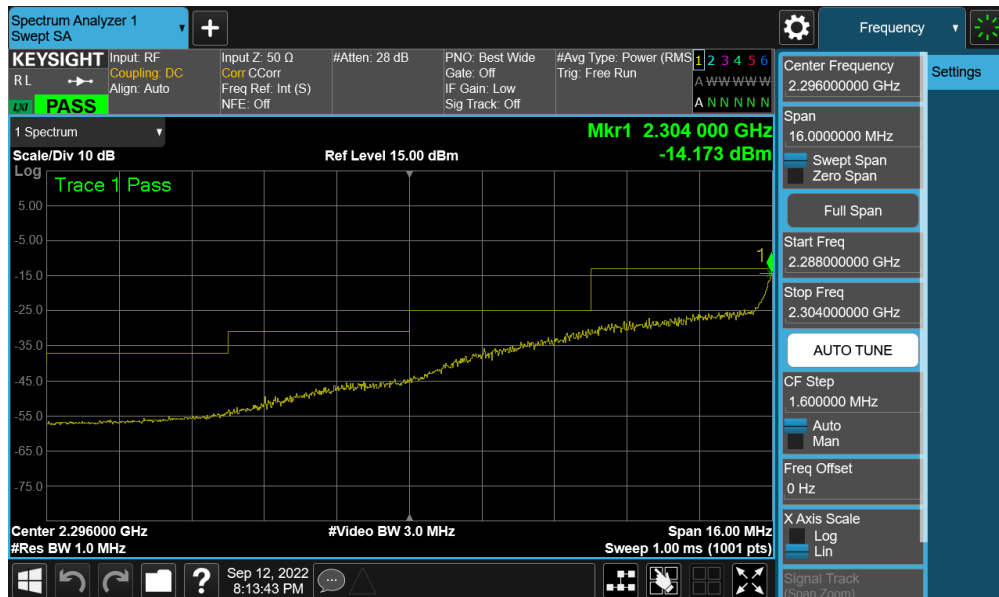
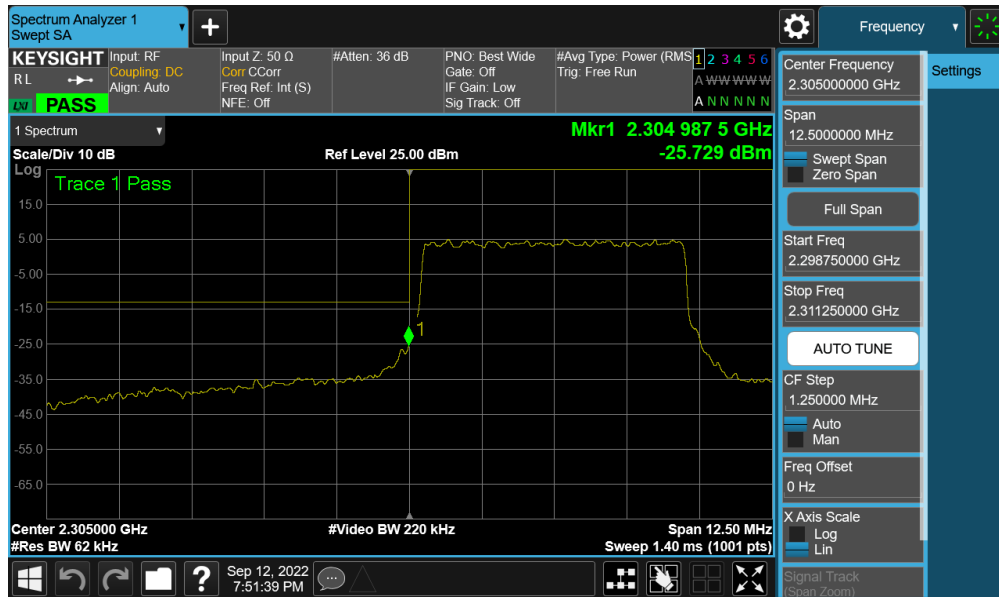
NR Band n30 – Ant A



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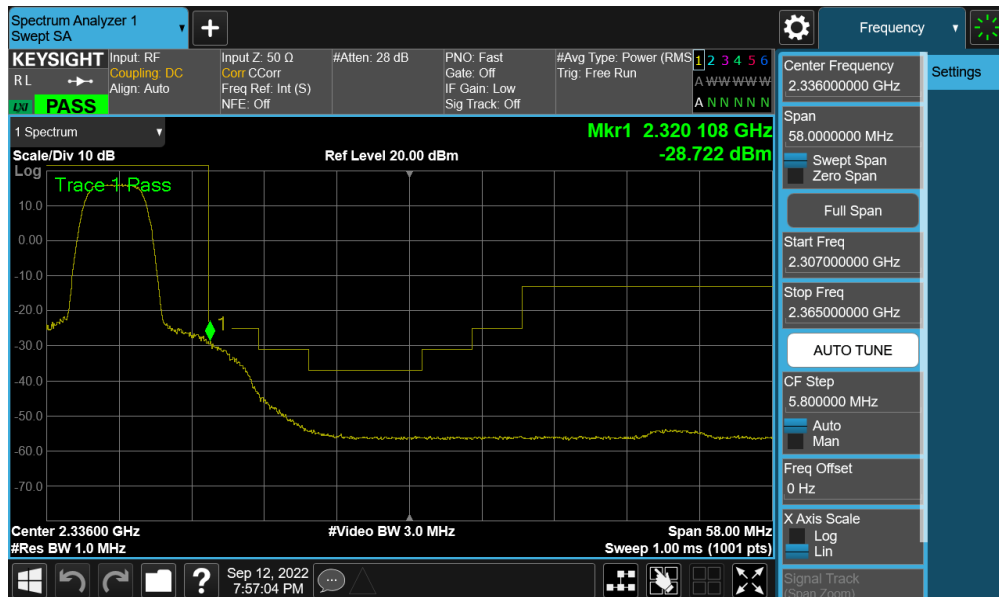
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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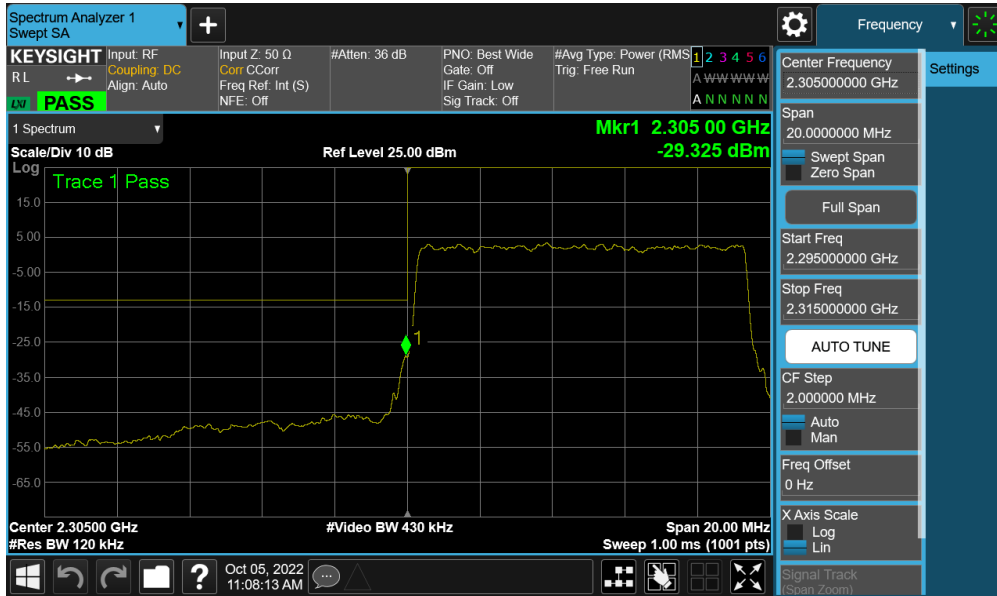
Plot 7-380. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant A)



Plot 7-381. Extended Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant A)

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NR Band n30 – Ant F

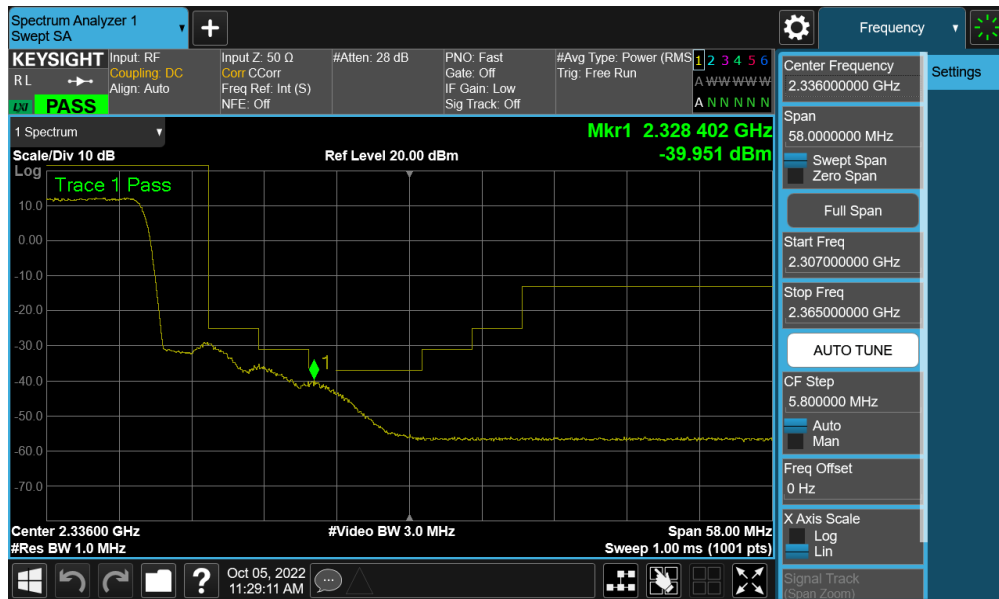


Plot 7-382. Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant F)

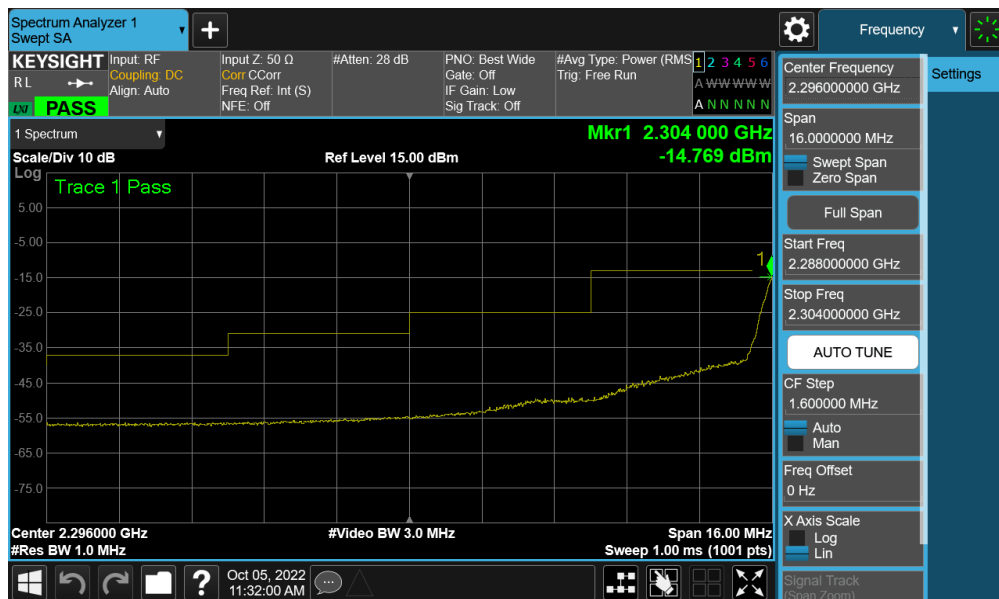


Plot 7-383. Extended Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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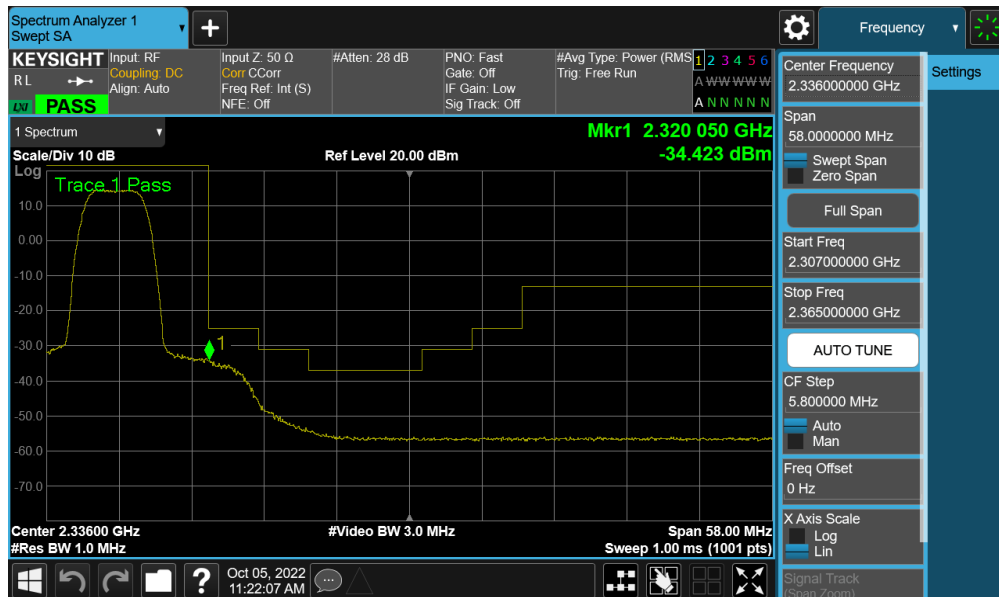
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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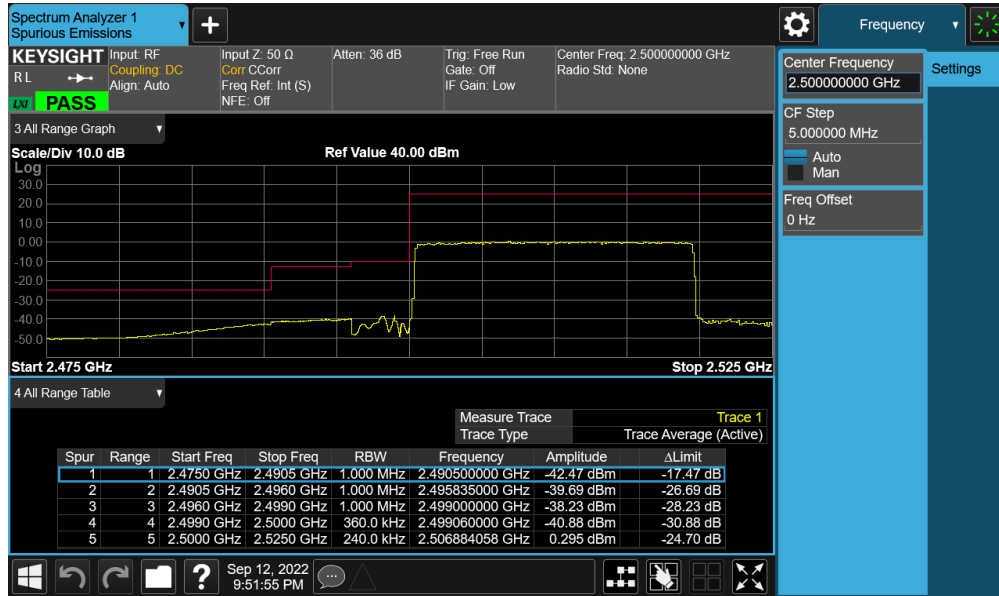
Plot 7-388. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant F)



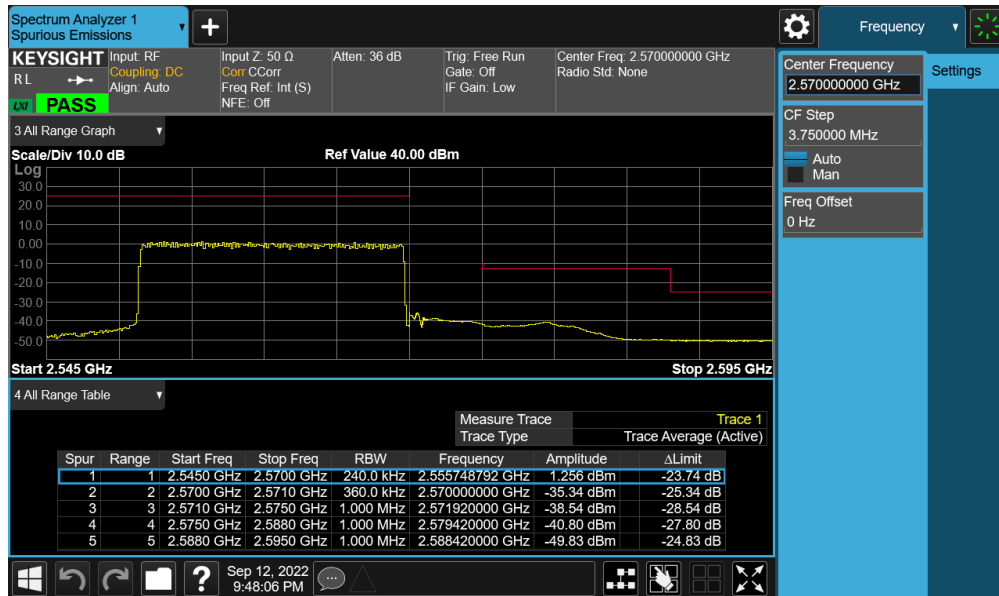
Plot 7-389. Extended Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7 – Ant B

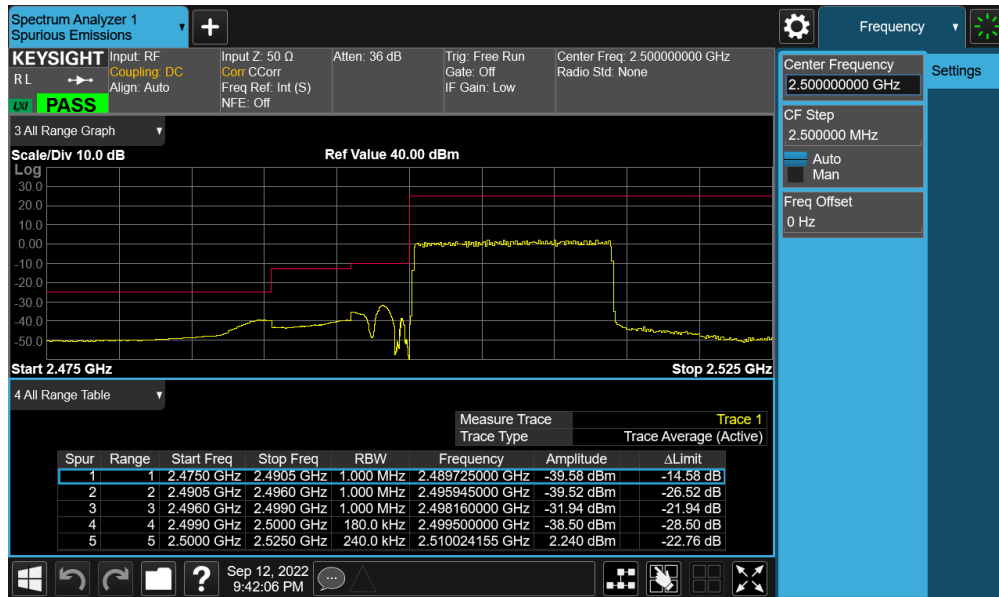


Plot 7-390. Lower Band Edge Plot (NR Band n7 - 20MHz CP-OFDM-QPSK – Full RB - Ant1)

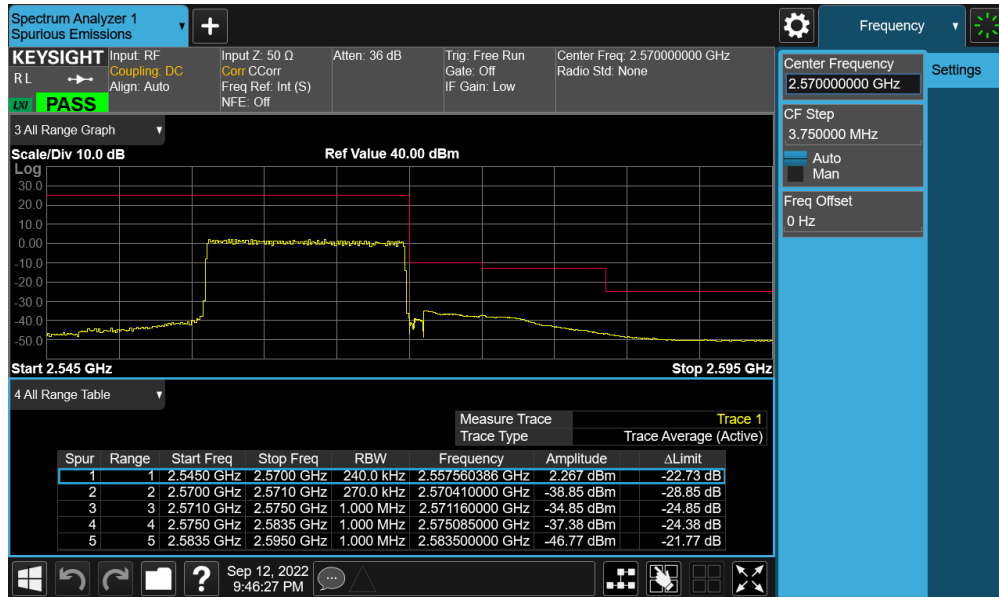


Plot 7-391. Upper Band Edge Plot (NR Band n7 - 20MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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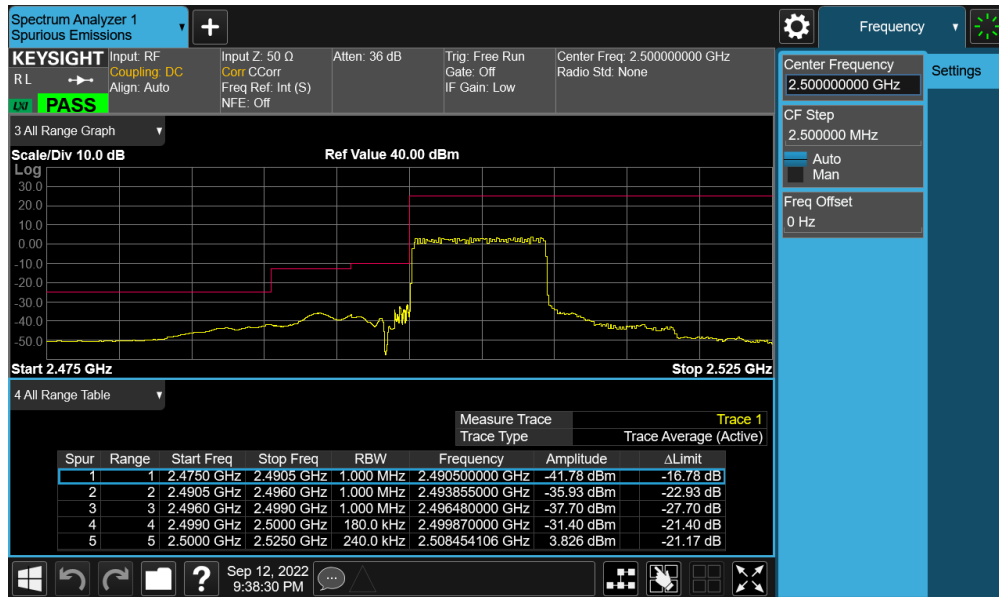


Plot 7-392. Lower Band Edge Plot (NR Band n7 - 15MHz CP-OFDM-QPSK – Full RB - Ant1)

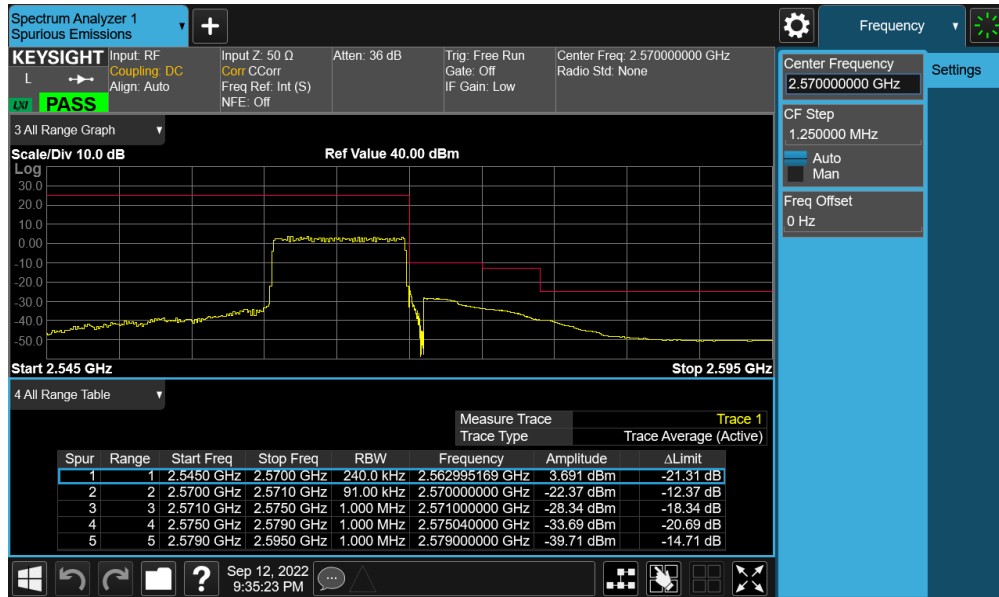


Plot 7-393. Upper Band Edge Plot (NR Band n7 - 15MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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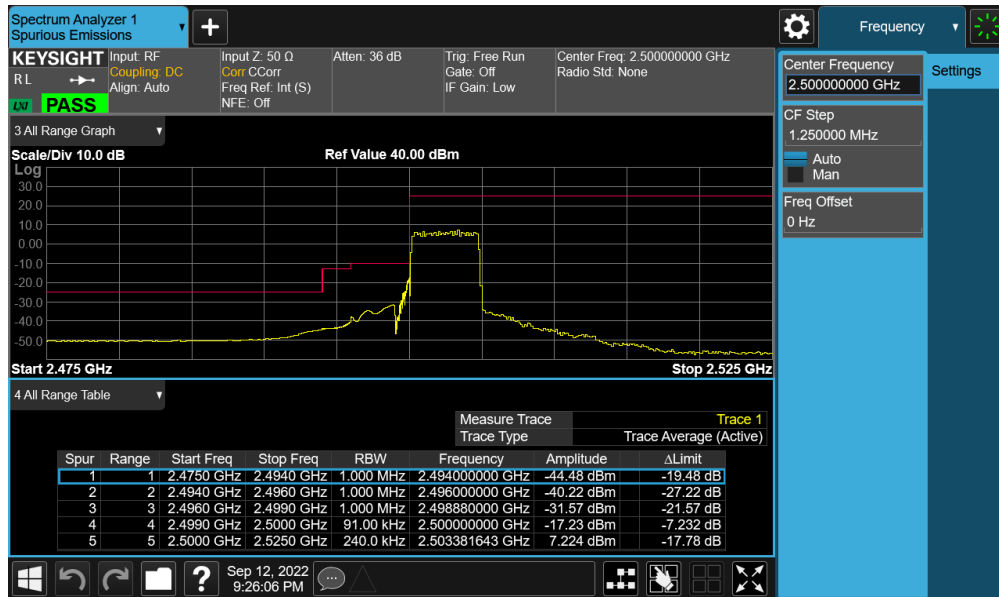


Plot 7-394. Lower Band Edge Plot (NR Band n7 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)

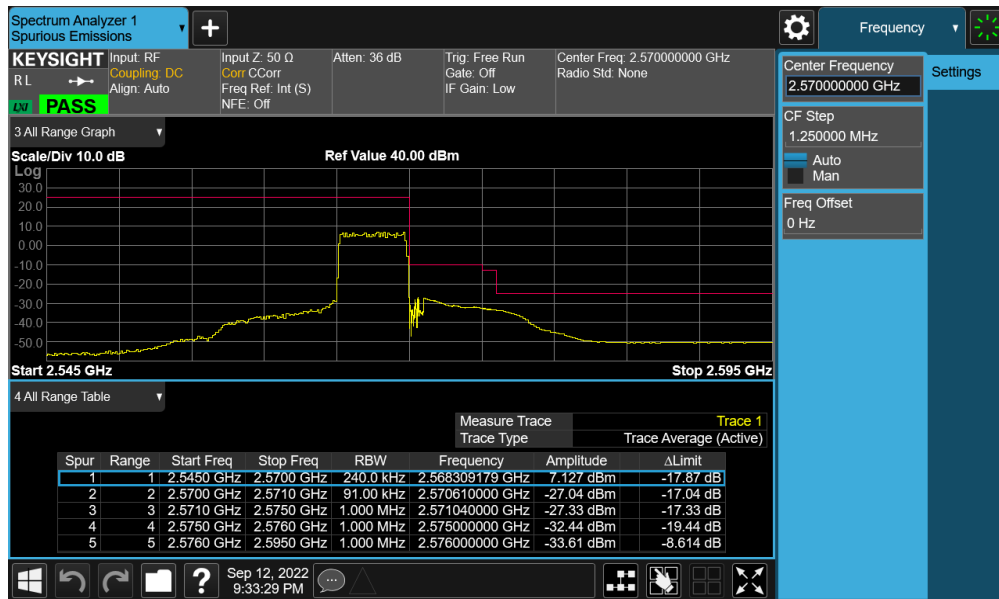


Plot 7-395. Upper Band Edge Plot (NR Band n7 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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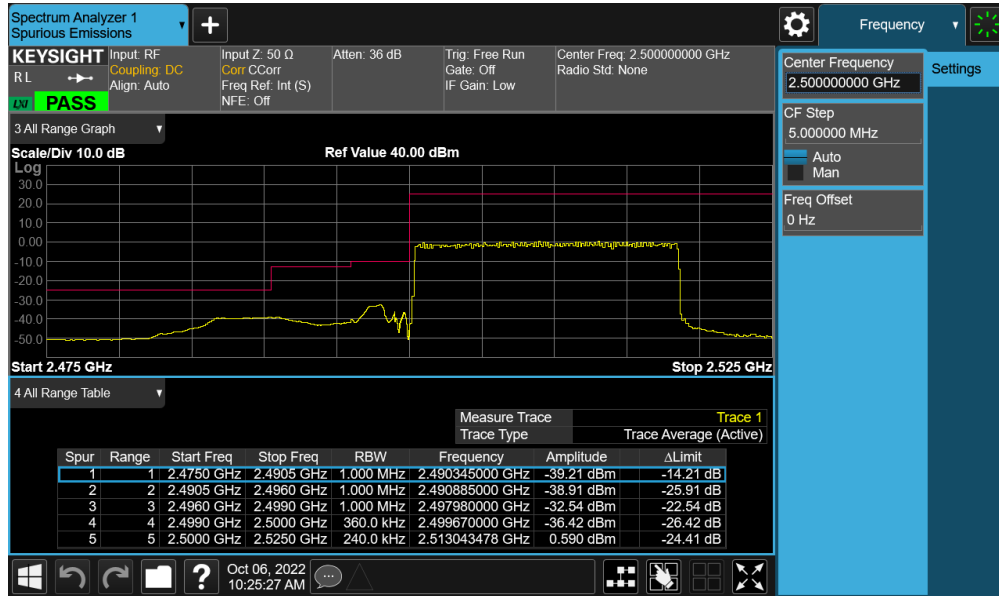
Plot 7-396. Lower Band Edge Plot (NR Band n7 - 5MHz CP-OFDM-QPSK – Full RB - Ant1)



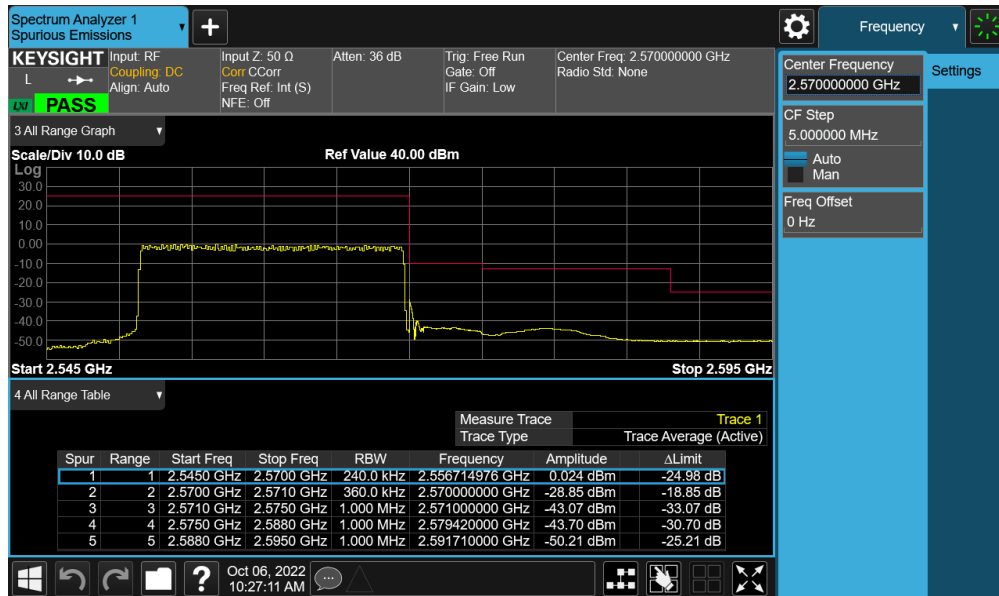
Plot 7-397. Upper Band Edge Plot (NR Band n7 - 5MHz CP-OFDM-QPSK – Full RB - Ant1)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7 – Ant F

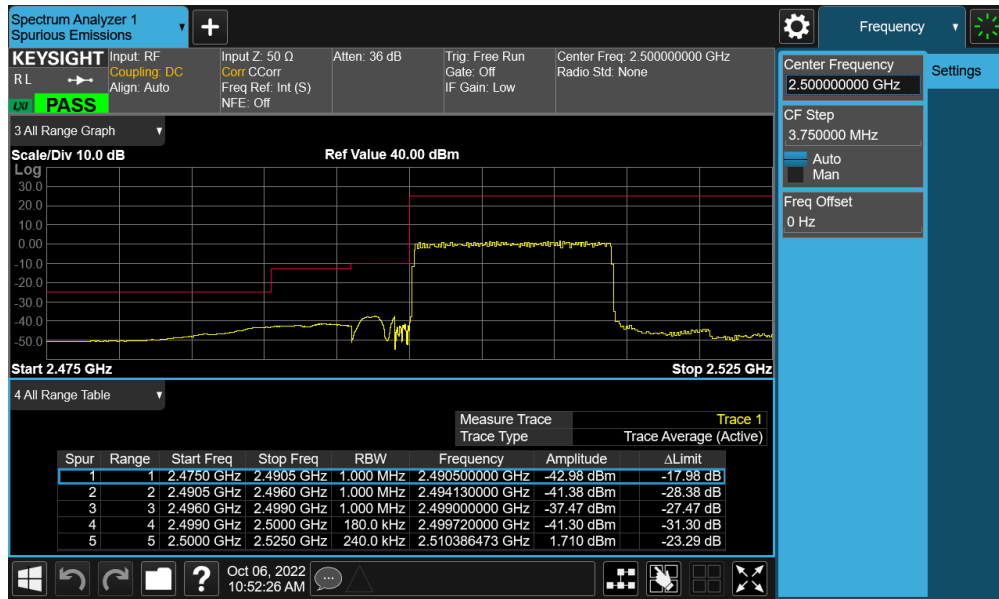


Plot 7-398. Lower Band Edge Plot (NR Band n7 - 20MHz CP-OFDM-QPSK – Full RB - Ant F)

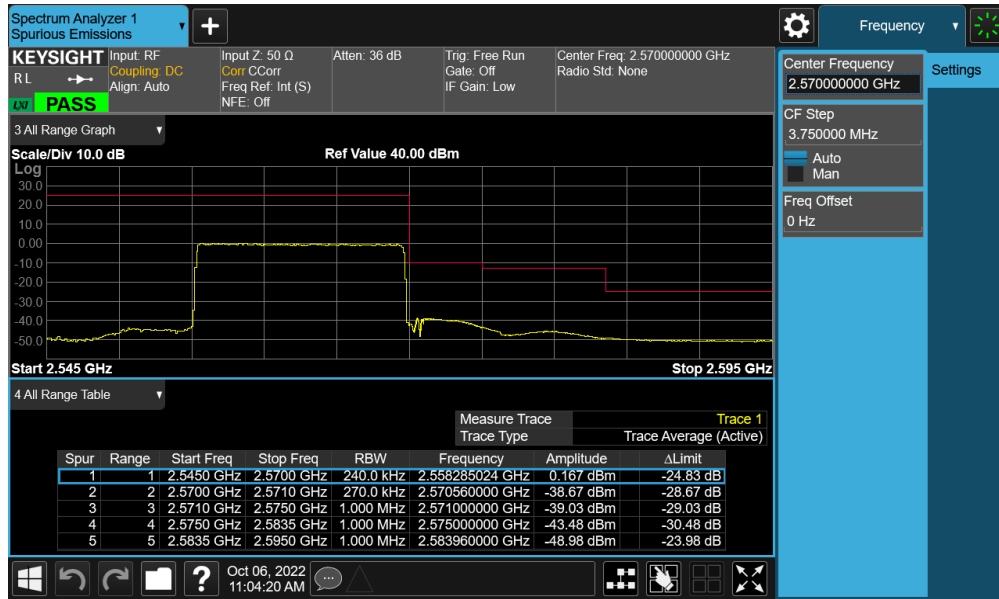


Plot 7-399. Upper Band Edge Plot (NR Band n7 - 20MHz CP-OFDM-QPSK – Full RB - Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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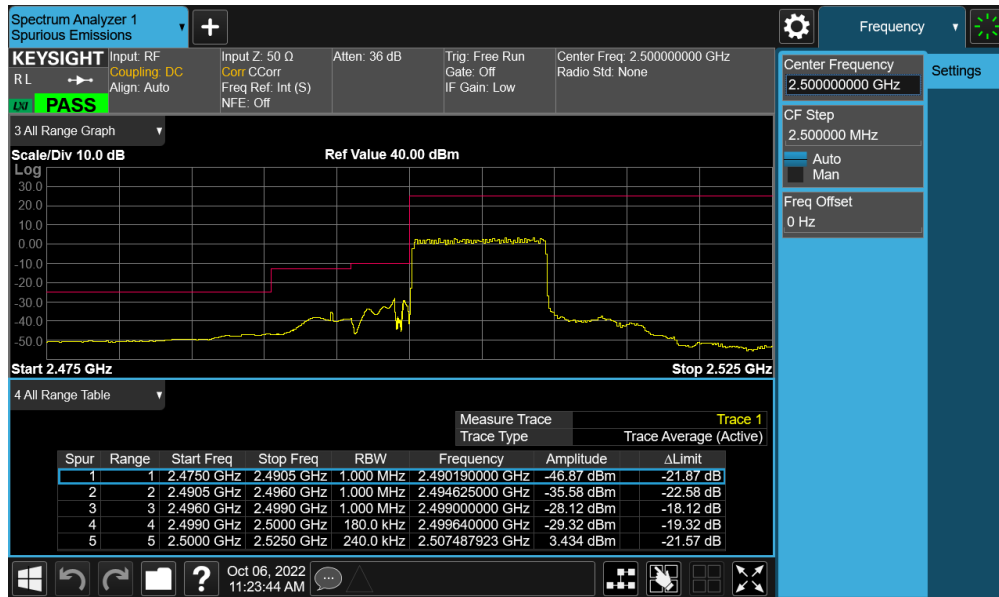


Plot 7-400. Lower Band Edge Plot (NR Band n7 - 15MHz CP-OFDM-QPSK – Full RB - Ant F)

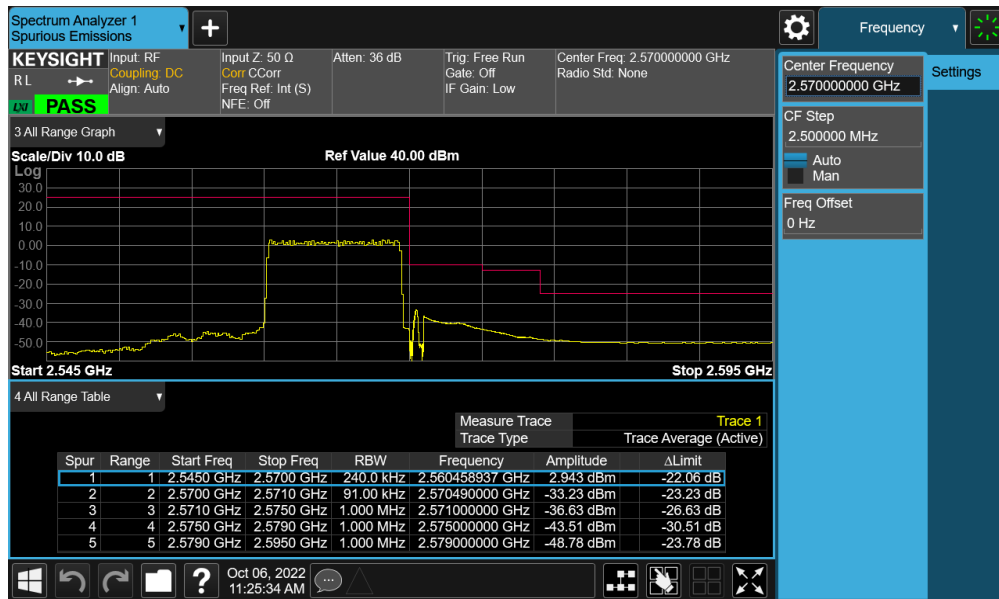


Plot 7-401. Upper Band Edge Plot (NR Band n7 - 15MHz CP-OFDM-QPSK – Full RB - Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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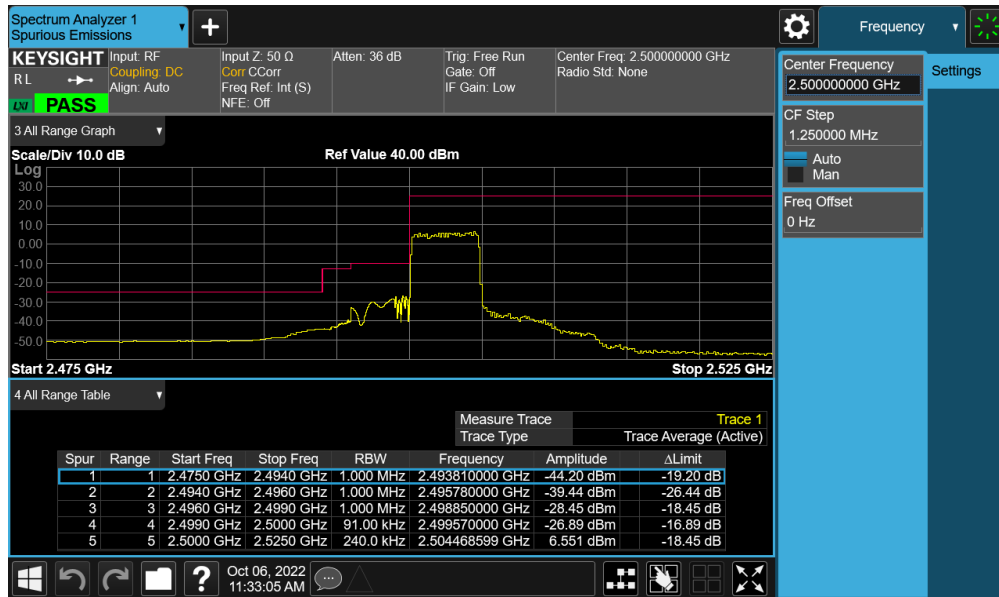


Plot 7-402. Lower Band Edge Plot (NR Band n7 - 10MHz CP-OFDM-QPSK – Full RB - Ant F)

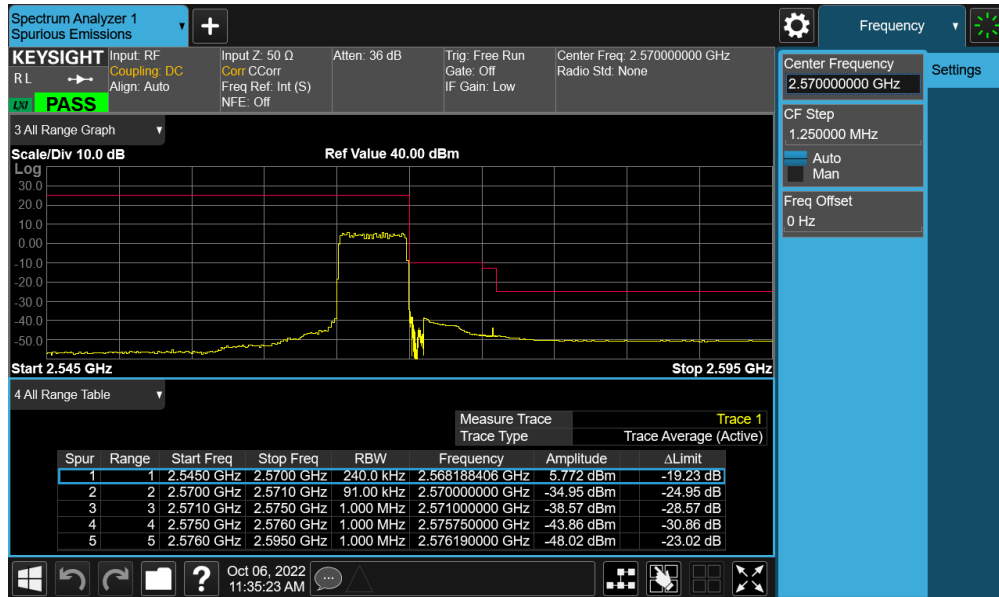


Plot 7-403. Upper Band Edge Plot (NR Band n7 - 10MHz CP-OFDM-QPSK – Full RB - Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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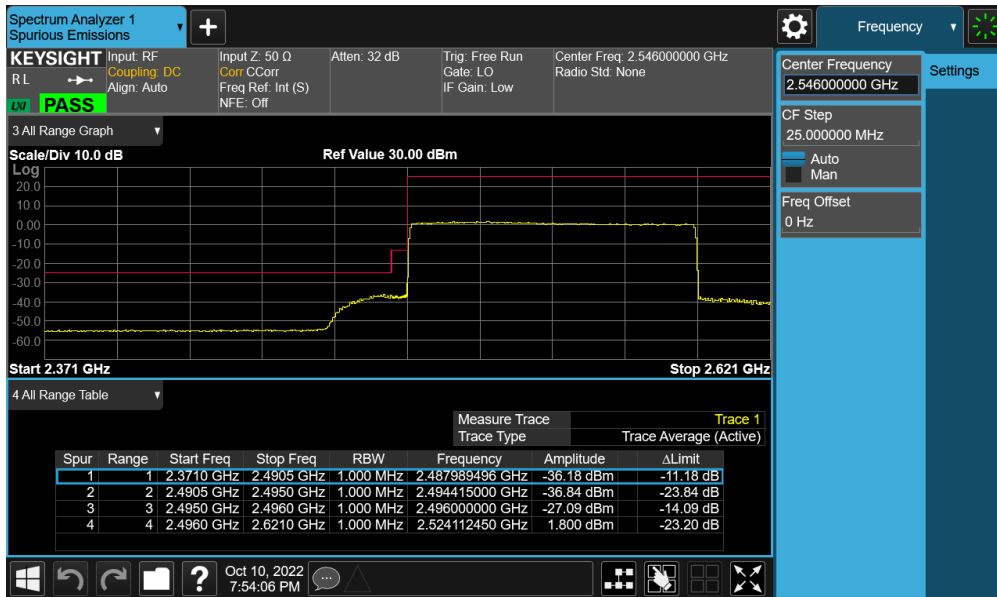
Plot 7-404. Lower Band Edge Plot (NR Band n7 - 5MHz CP-OFDM-QPSK - Full RB - Ant F)



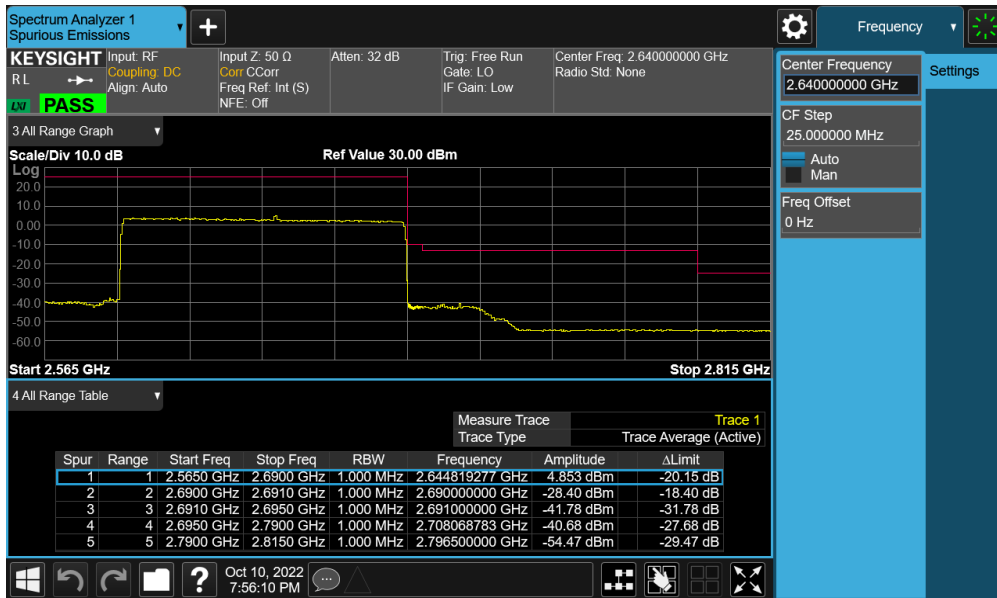
Plot 7-405. Upper Band Edge Plot (NR Band n7 - 5MHz CP-OFDM-QPSK - Full RB - Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – Ant F

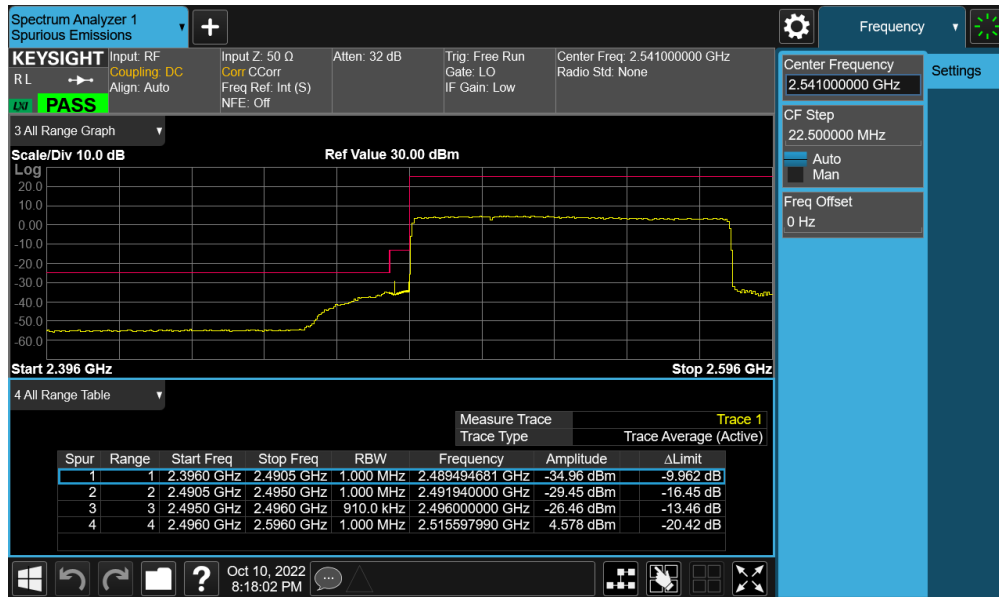


Plot 7-406. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant F)

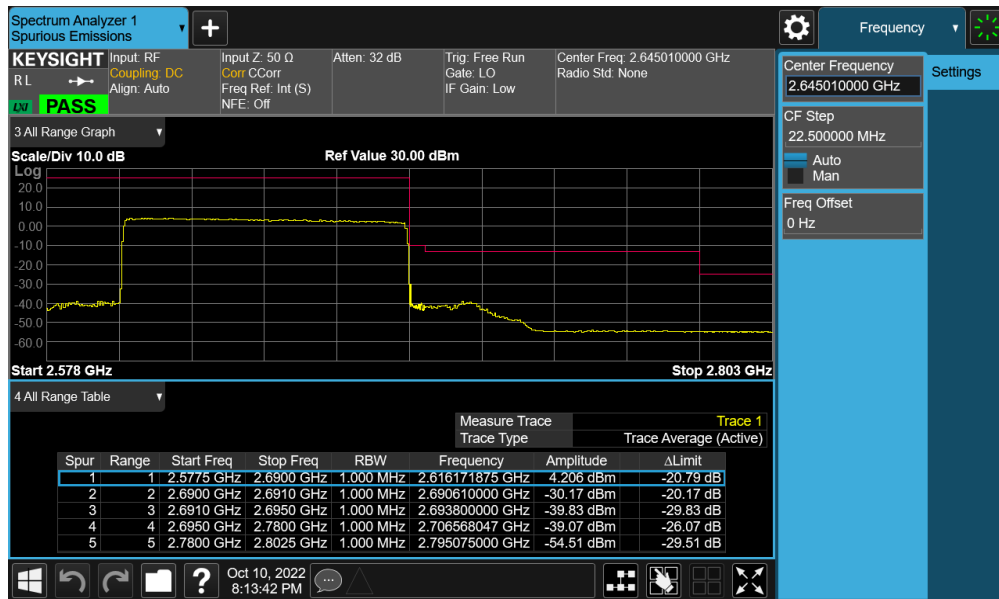


Plot 7-407. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-408. Lower ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK – Full RB - Ant F)



Plot 7-409. Upper ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK – Full RB - Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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