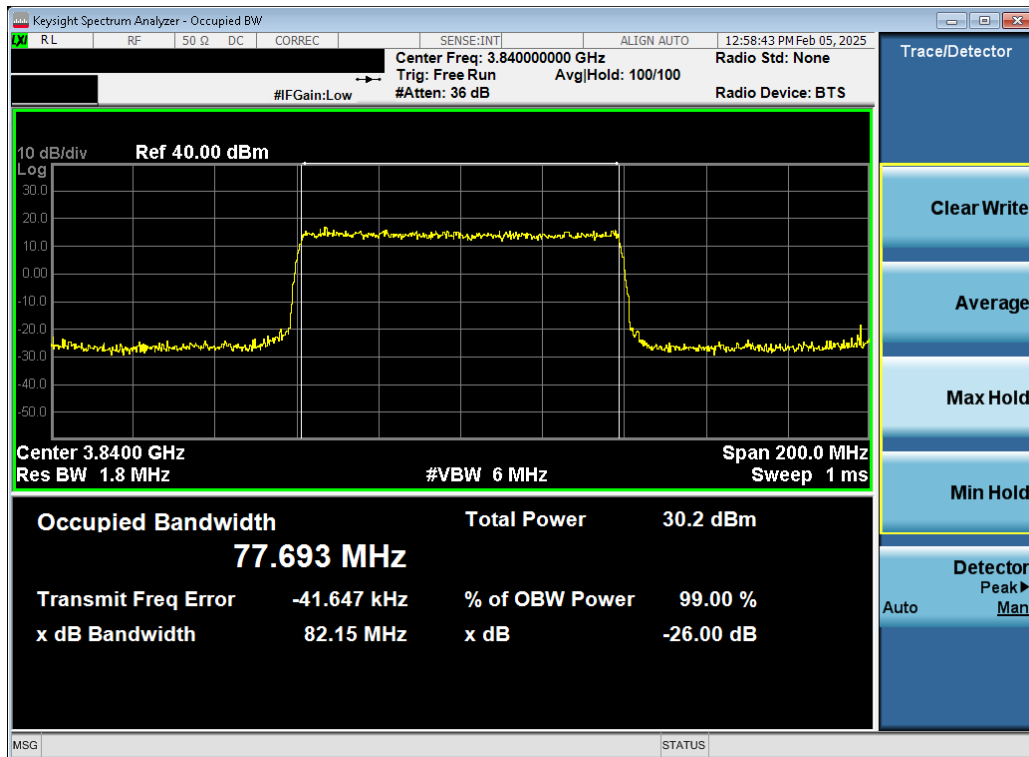
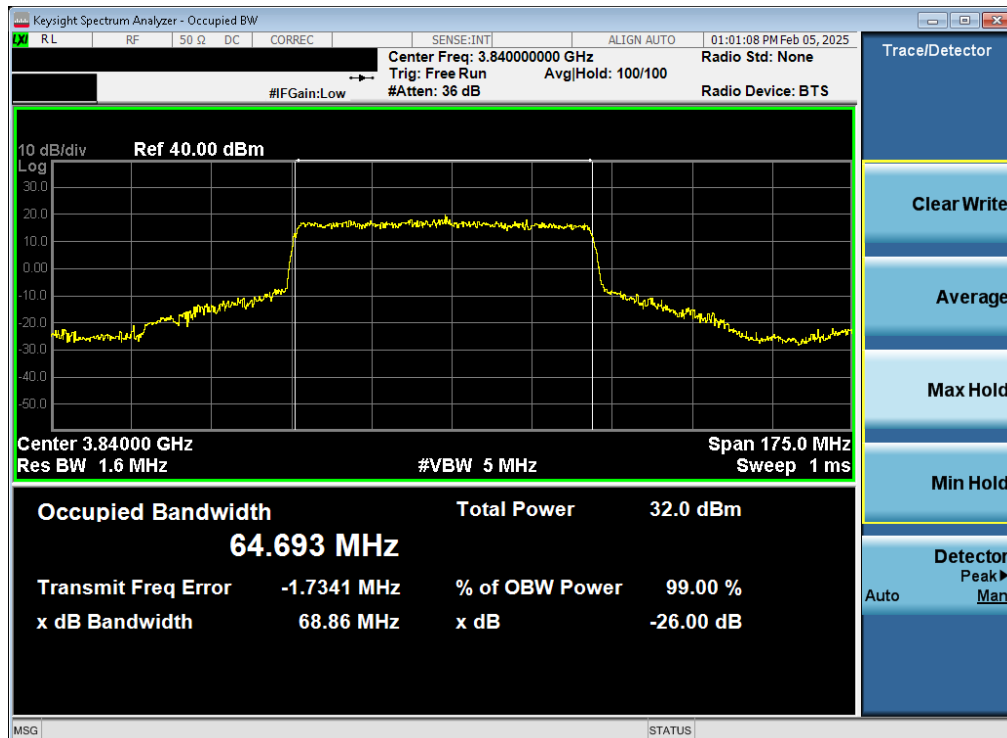


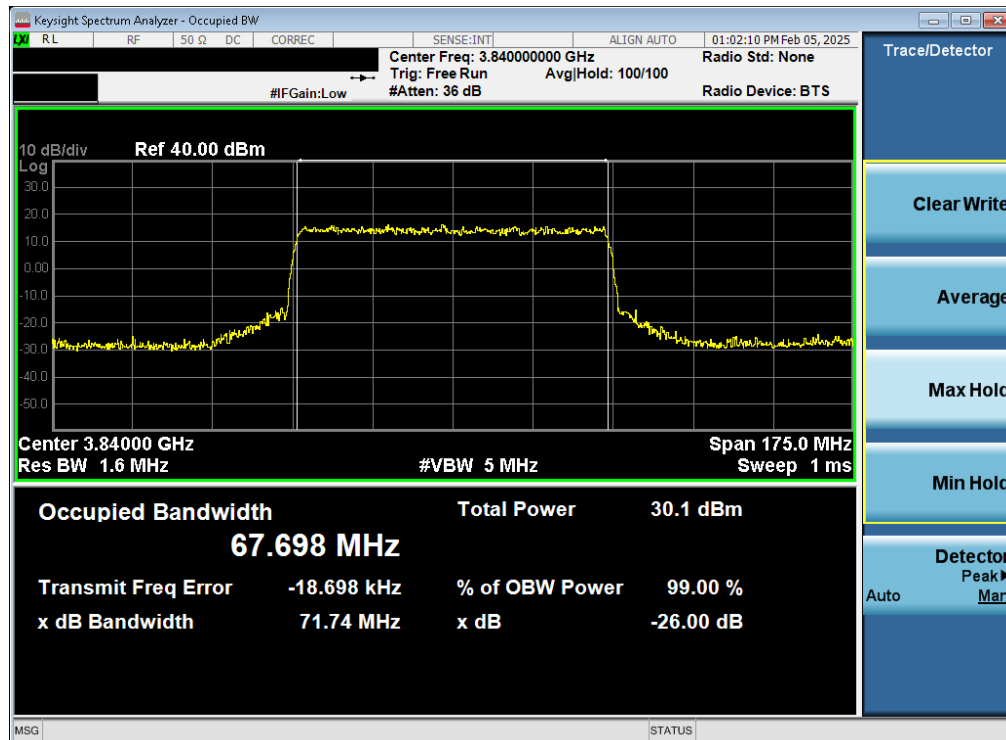


Plot 7-253. Occupied Bandwidth Plot (NR Band n77 C-Band - 80MHz 16-QAM - Full RB - UL MIMO Ant1)

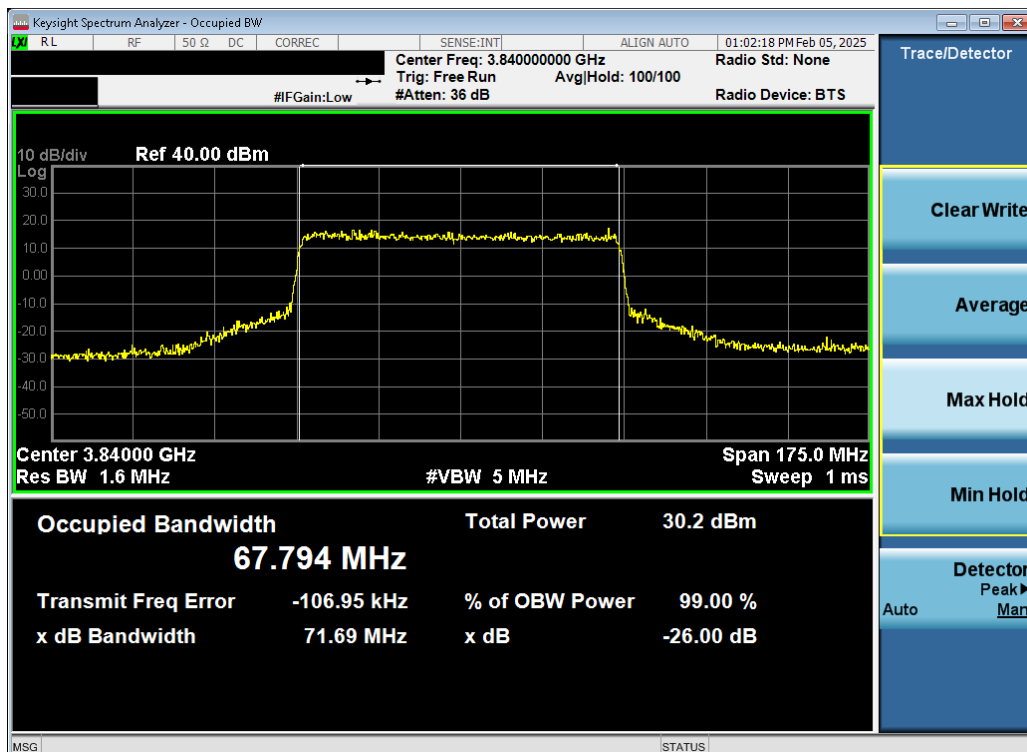


Plot 7-254. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz $\pi/2$ BPSK - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 - 3/12/2025	EUT Type: Full Modular	Page 161 of 287

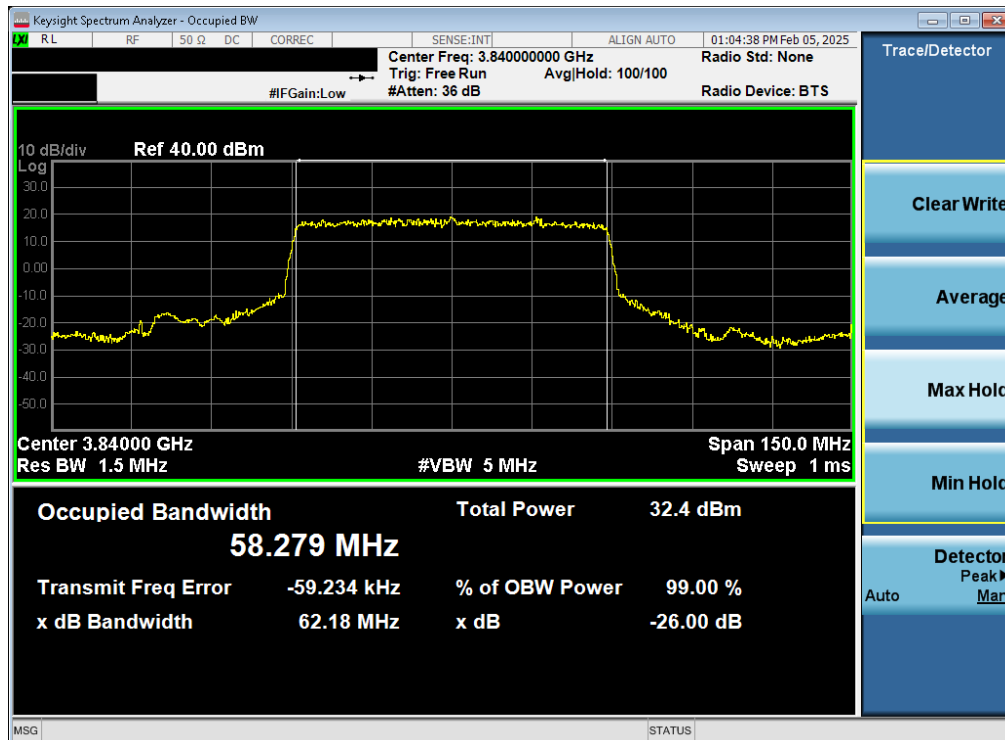


Plot 7-255. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz QPSK - Full RB - UL MIMO Ant1)

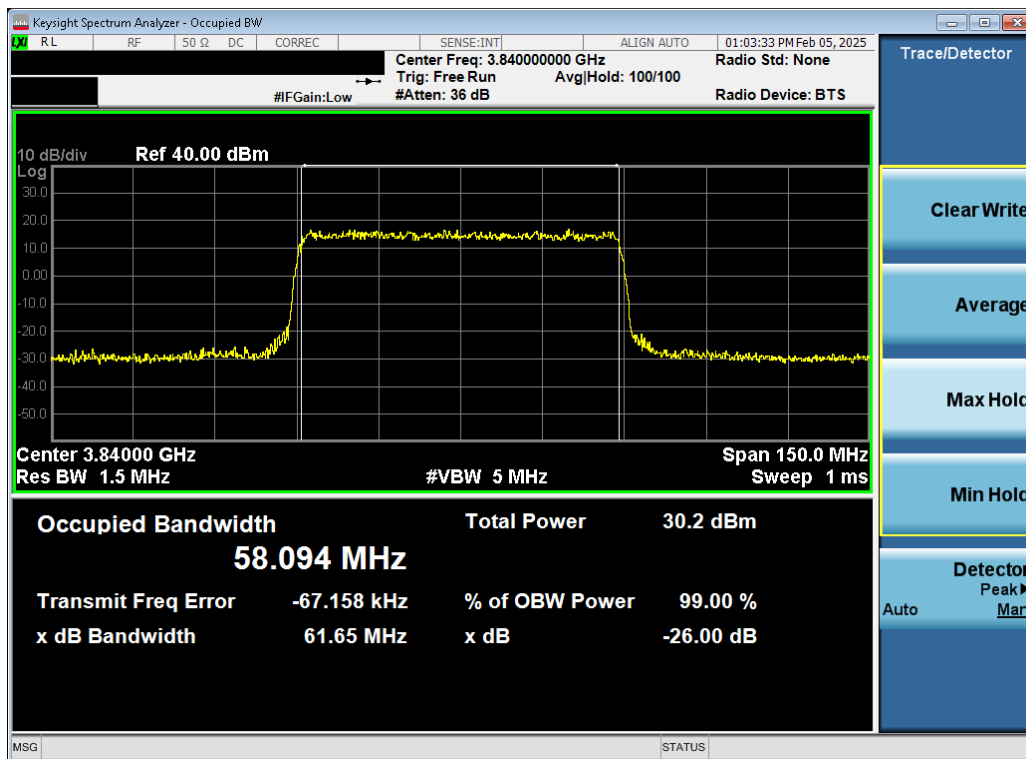


Plot 7-256. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz 16-QAM - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 - 3/12/2025	EUT Type: Full Modular	Page 162 of 287

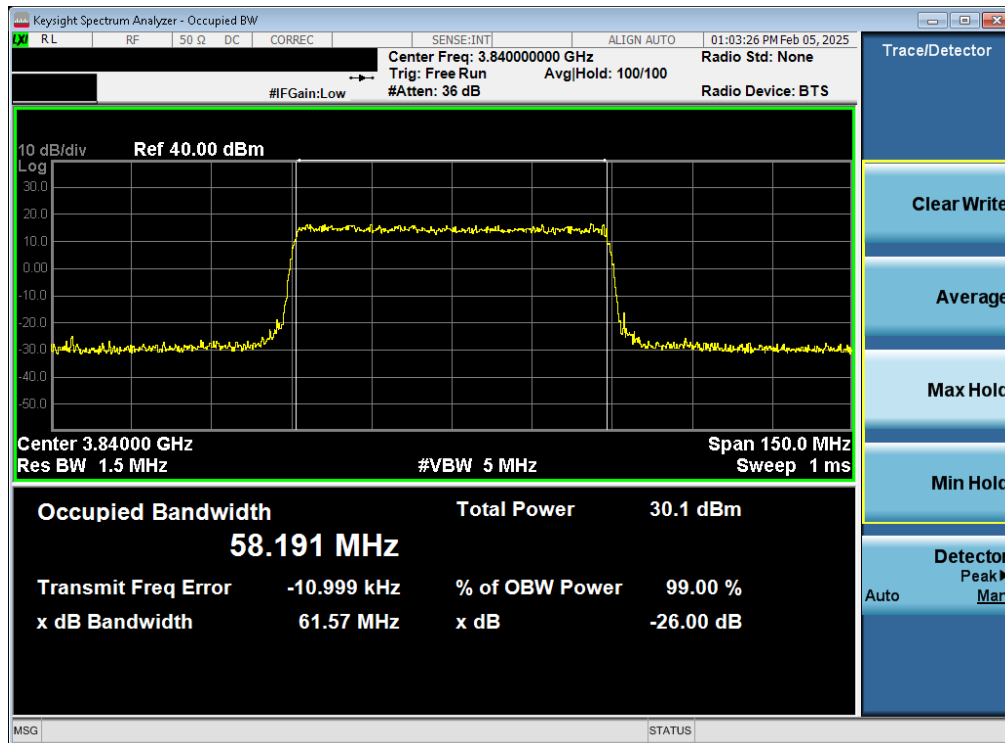


Plot 7-257. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz $\pi/2$ BPSK - Full RB - UL MIMO Ant1)

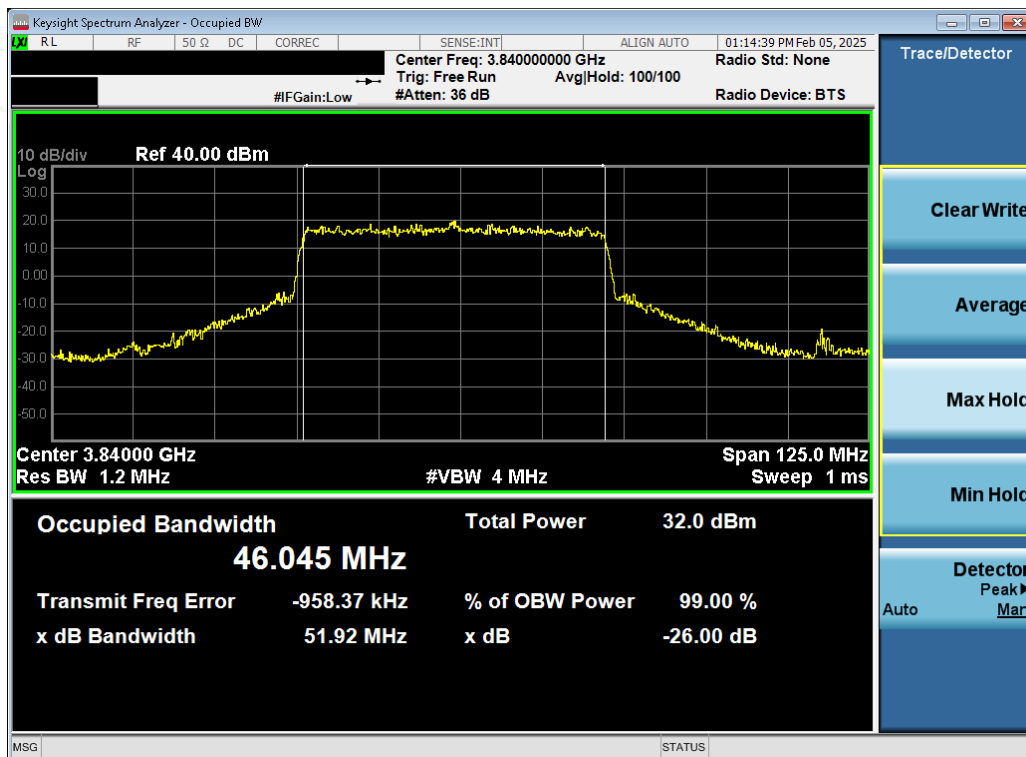


Plot 7-258. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz QPSK - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 - 3/12/2025	EUT Type: Full Modular	Page 163 of 287

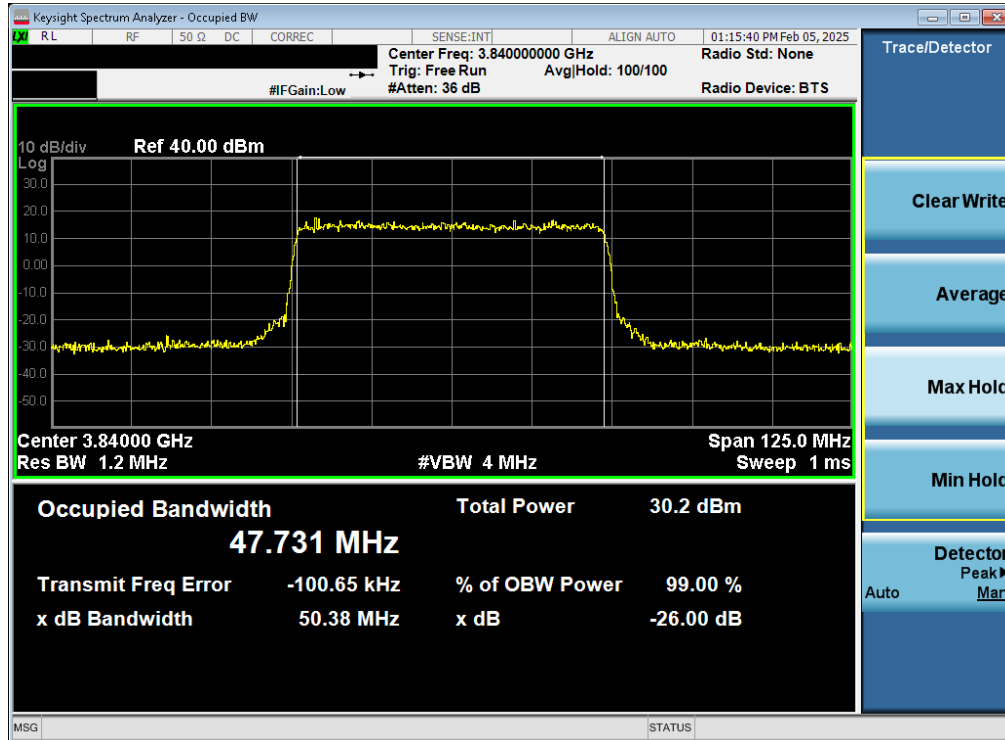


Plot 7-259. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz 16-QAM - Full RB - UL MIMO Ant1)

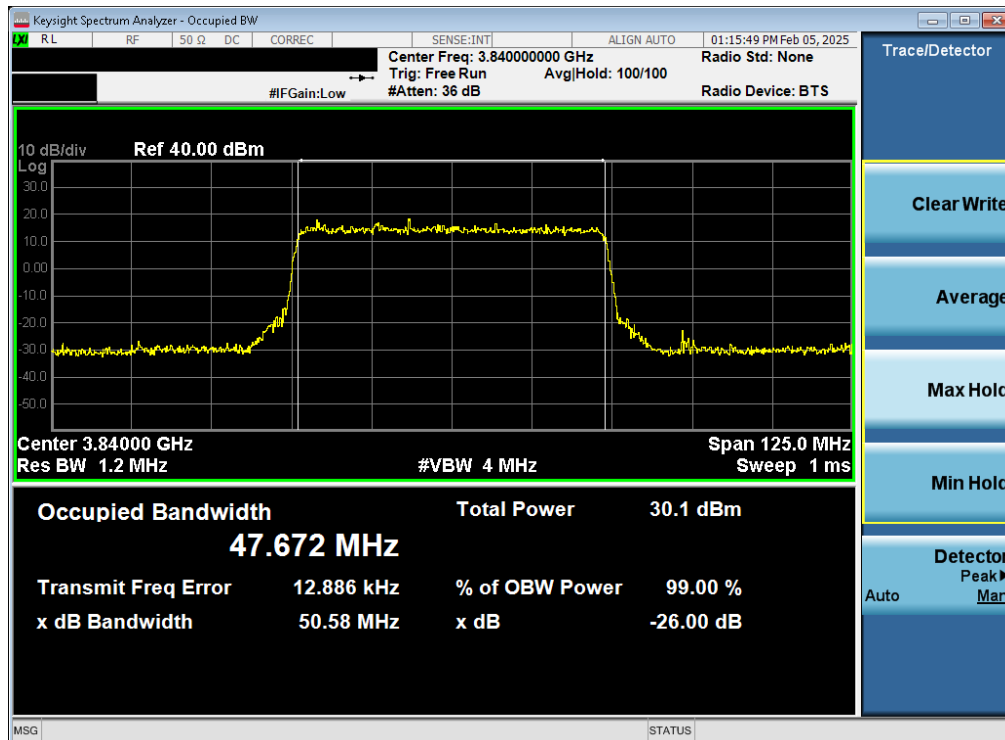


Plot 7-260. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz $\pi/2$ BPSK - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 - 3/12/2025	EUT Type: Full Modular	Page 164 of 287

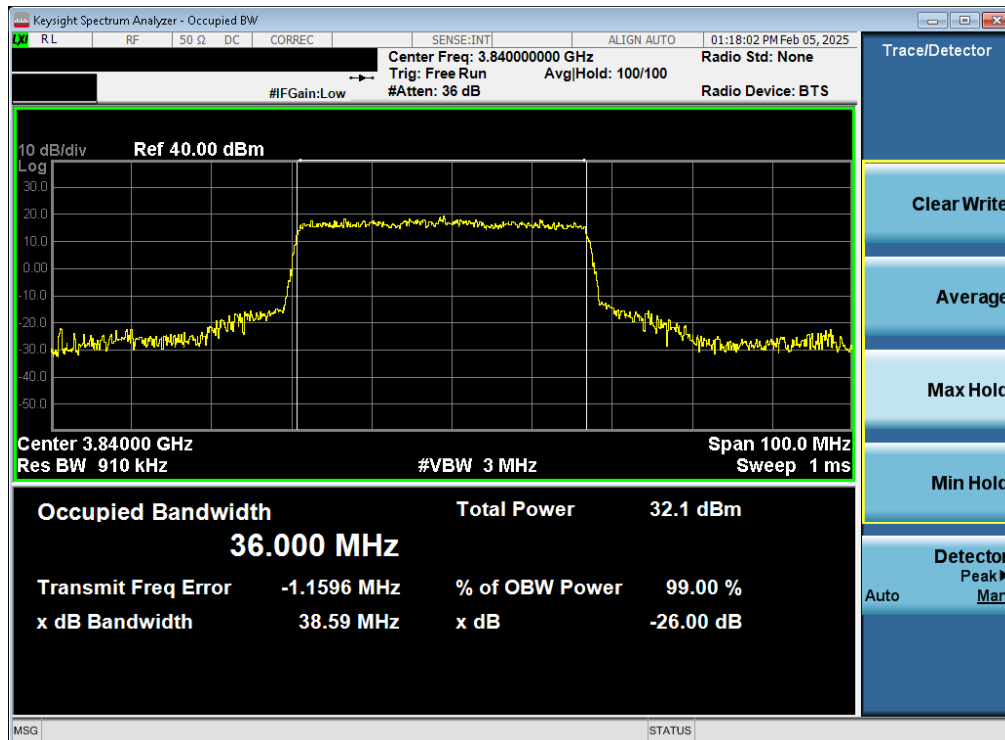


Plot 7-261. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz QPSK - Full RB - UL MIMO Ant1)

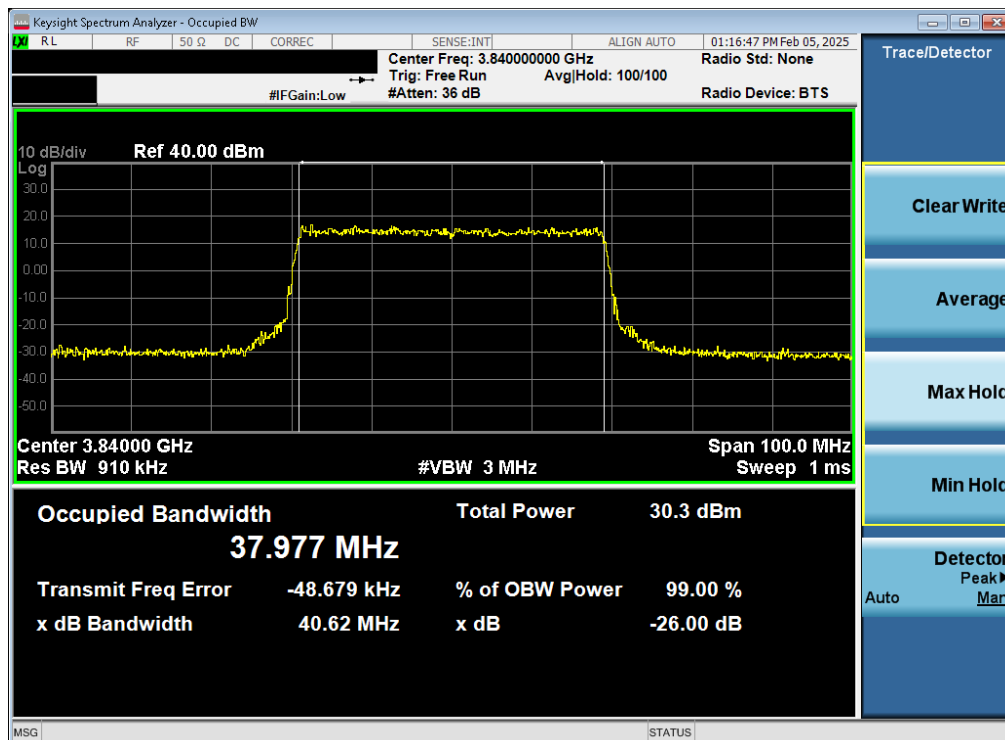


Plot 7-262. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz 16-QAM - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 165 of 287

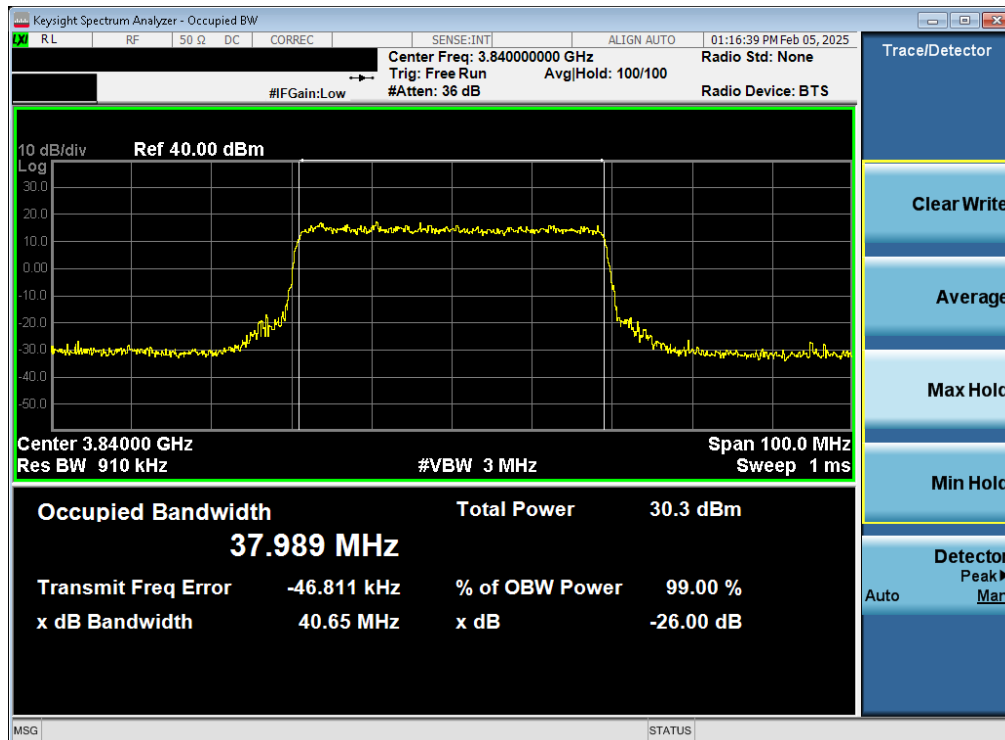


Plot 7-263. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz $\pi/2$ BPSK - Full RB - UL MIMO Ant1)

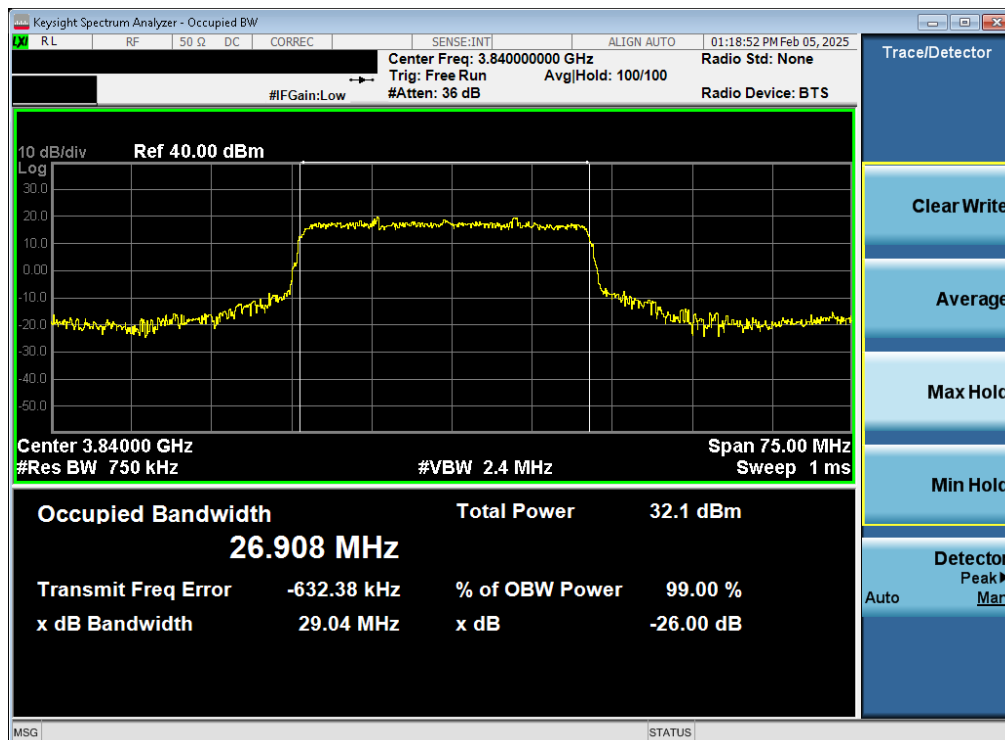


Plot 7-264. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz QPSK - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 166 of 287

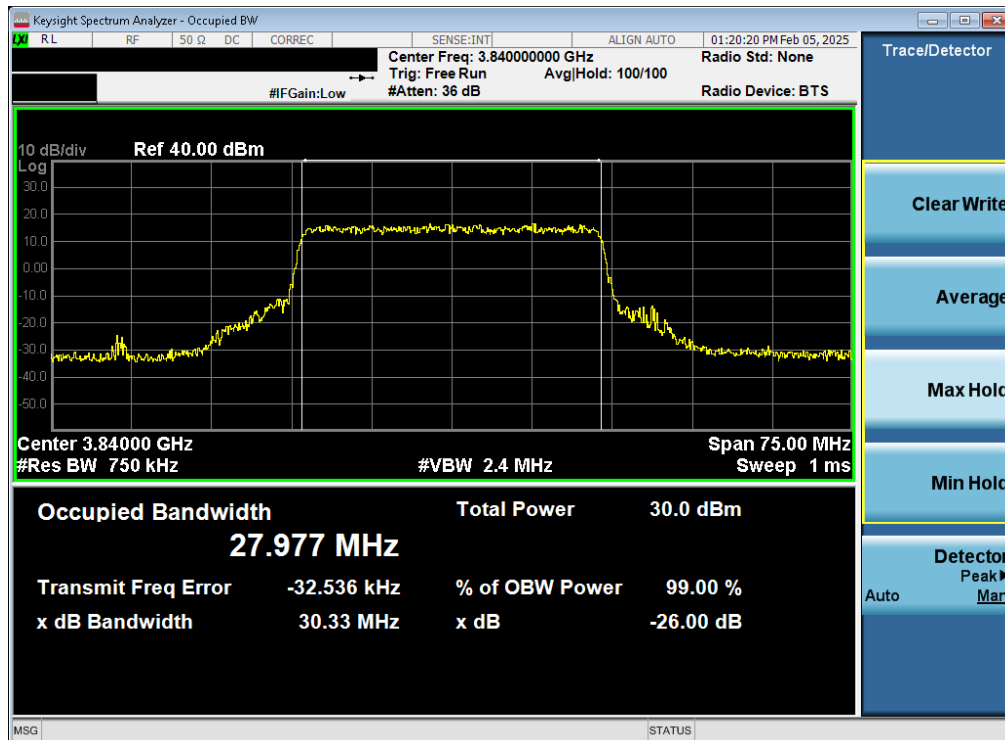


Plot 7-265. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz 16-QAM - Full RB - UL MIMO Ant1)

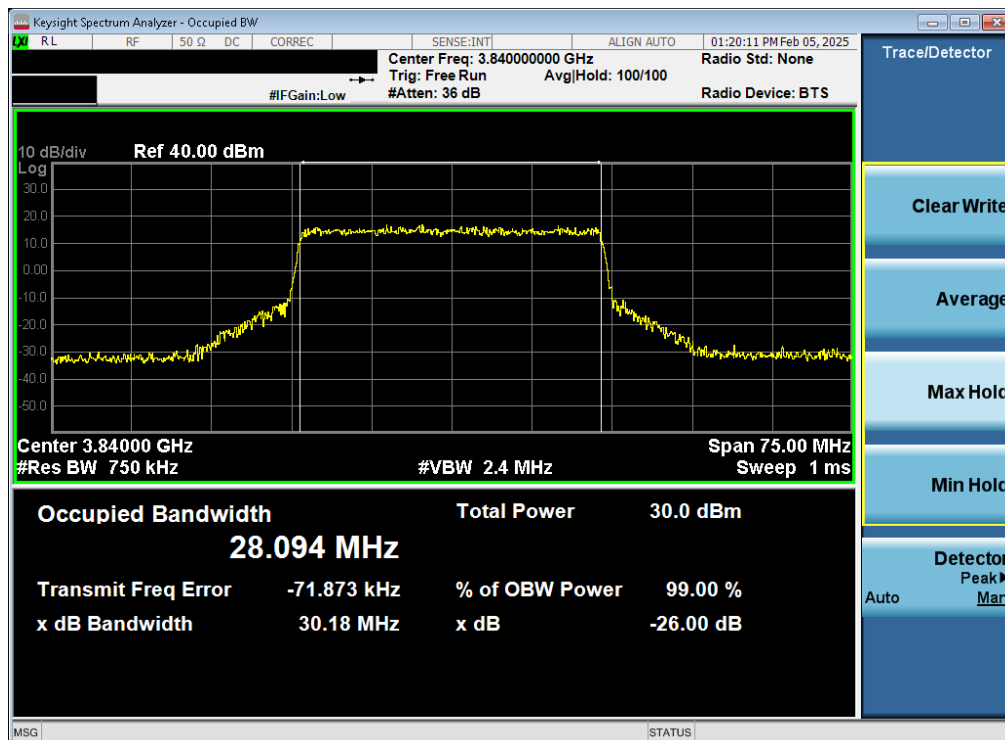


Plot 7-266. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz $\pi/2$ BPSK - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 167 of 287

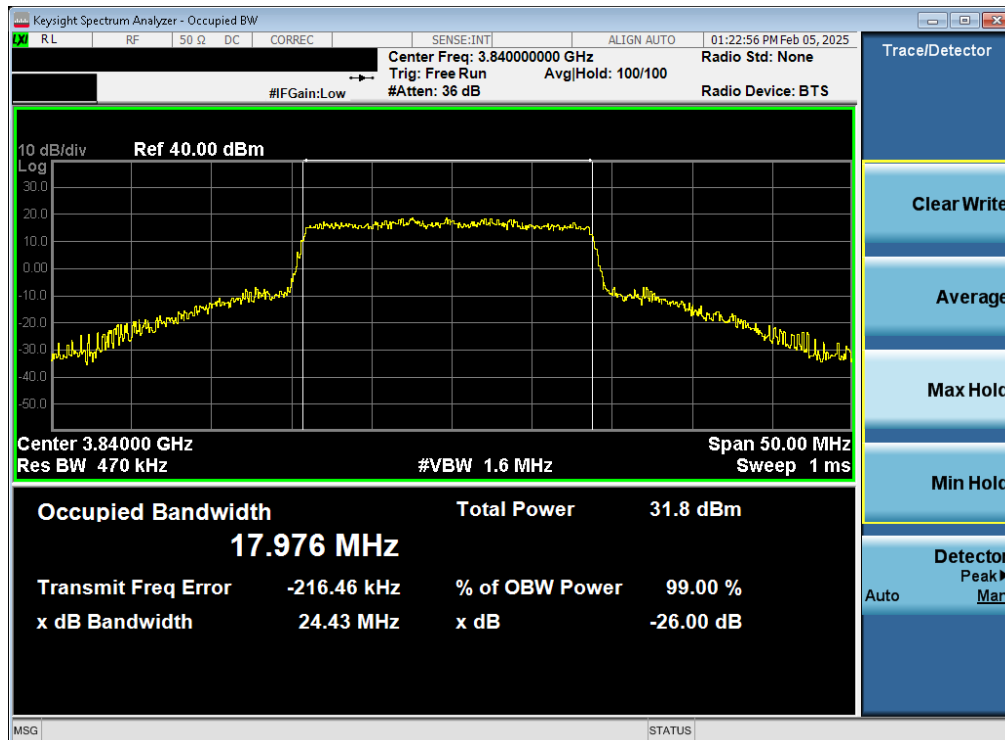


Plot 7-267. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz QPSK - Full RB - UL MIMO Ant1)

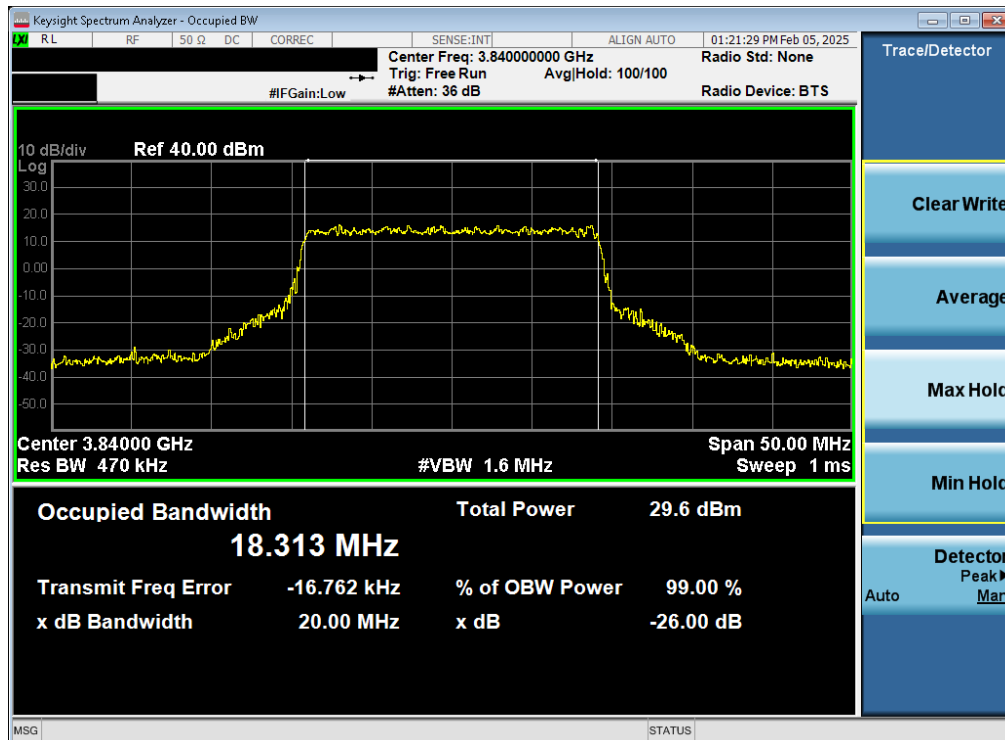


Plot 7-268. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz 16-QAM - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 168 of 287

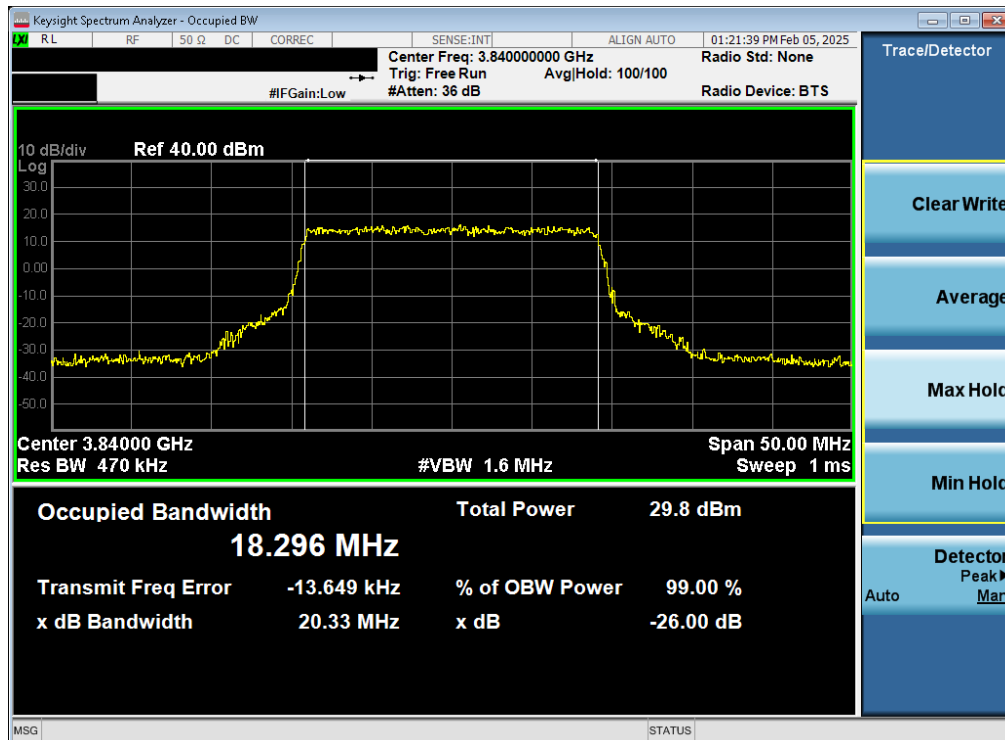


Plot 7-269. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz $\pi/2$ BPSK - Full RB - UL MIMO Ant1)

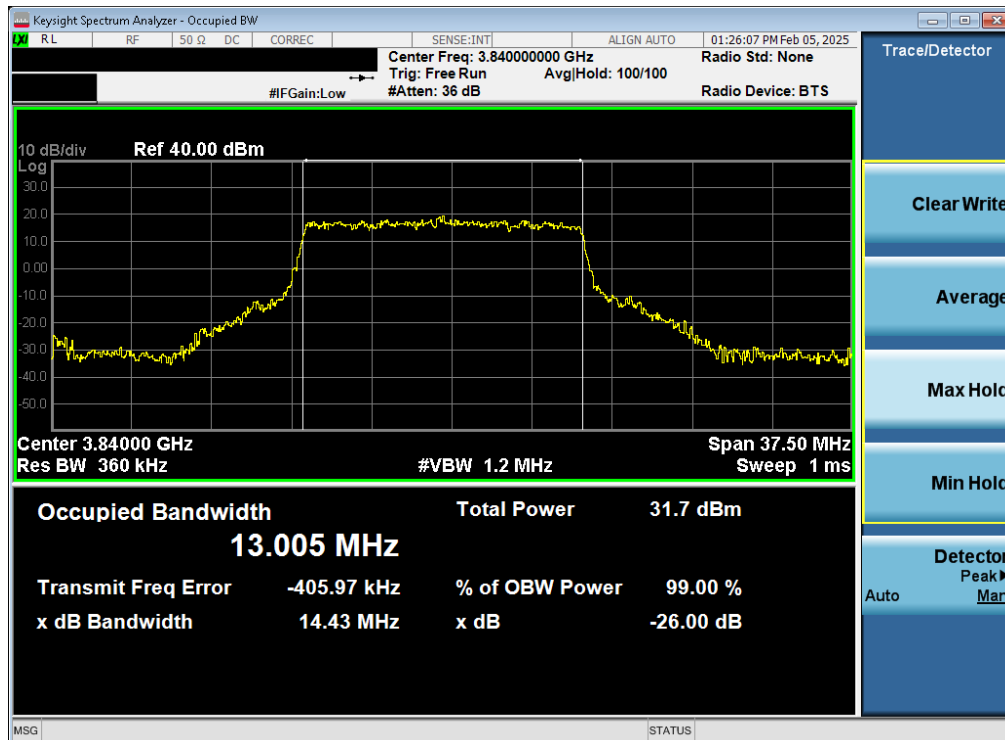


Plot 7-270. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz QPSK - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 169 of 287

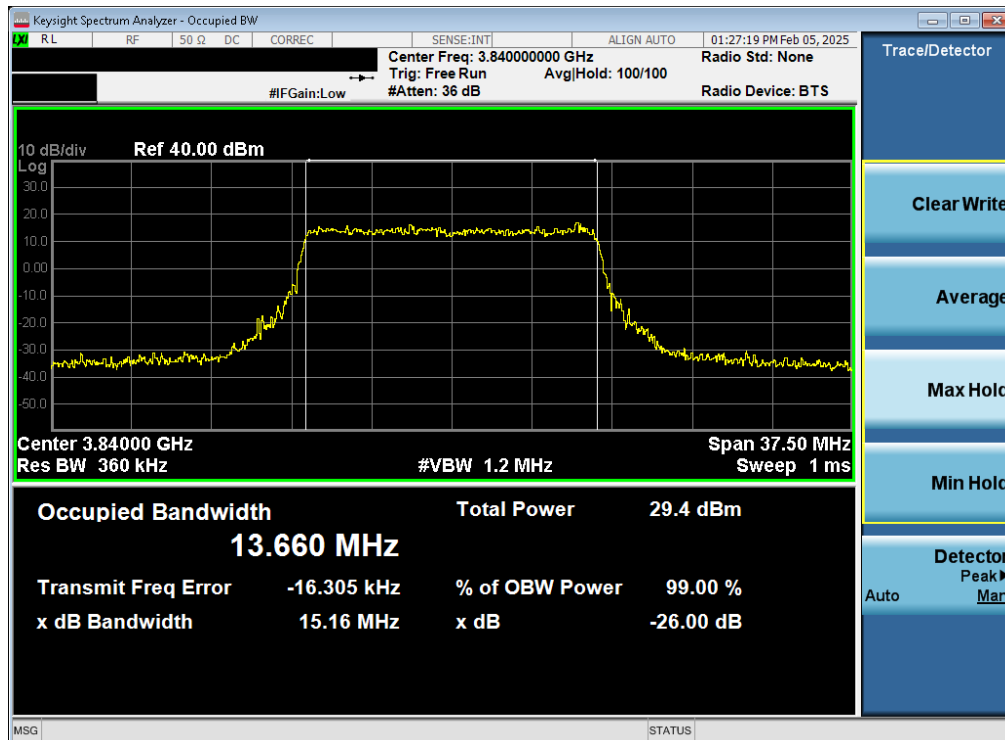


Plot 7-271. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz 16-QAM - Full RB - UL MIMO Ant1)

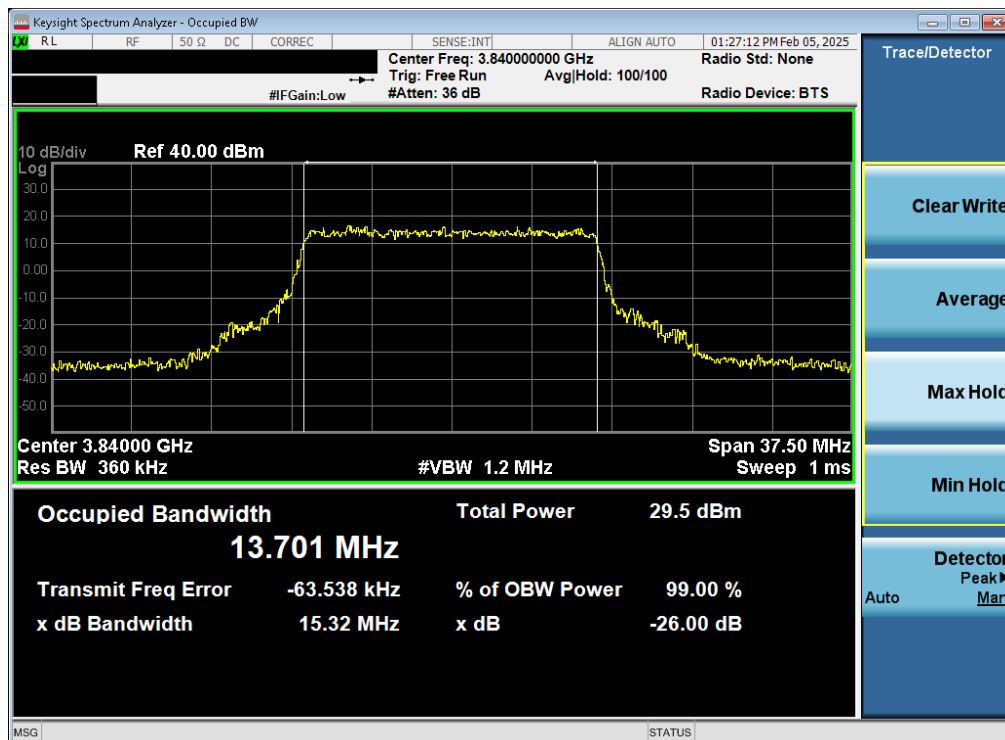


Plot 7-272. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz $\pi/2$ BPSK - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 170 of 287

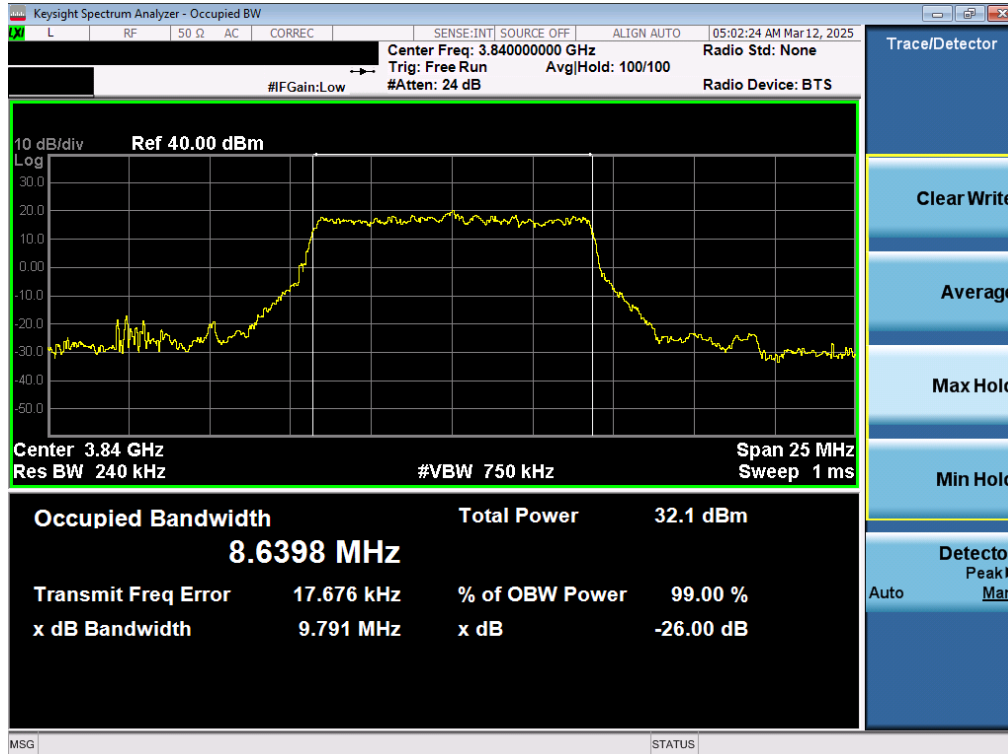


Plot 7-273. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz QPSK - Full RB - UL MIMO Ant1)

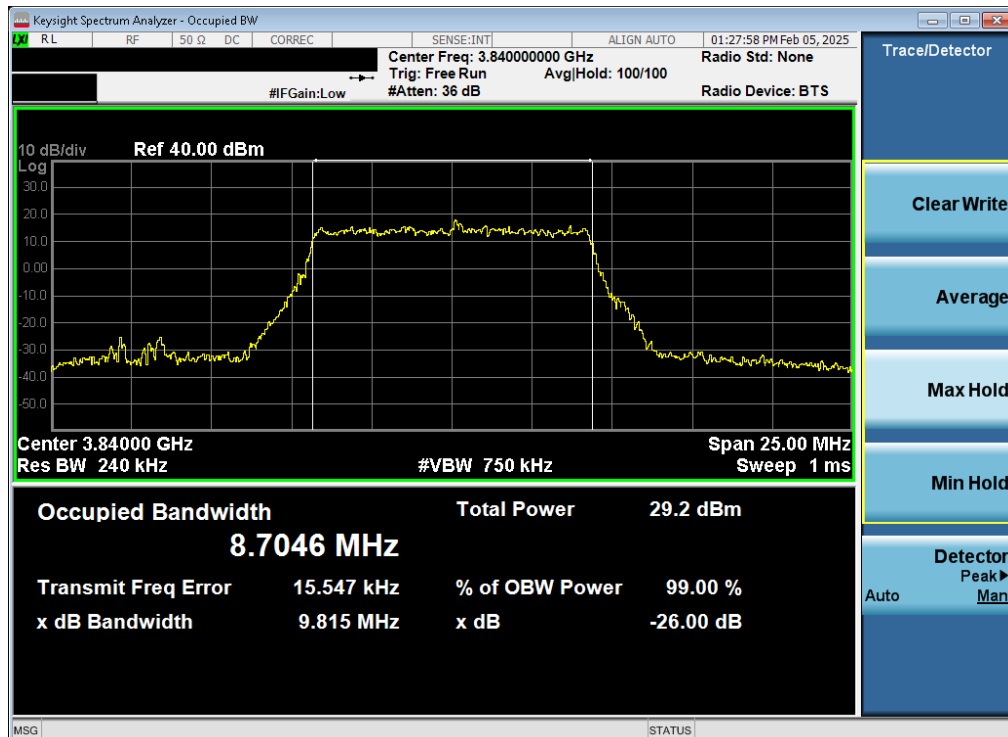


Plot 7-274. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz 16-QAM - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 171 of 287

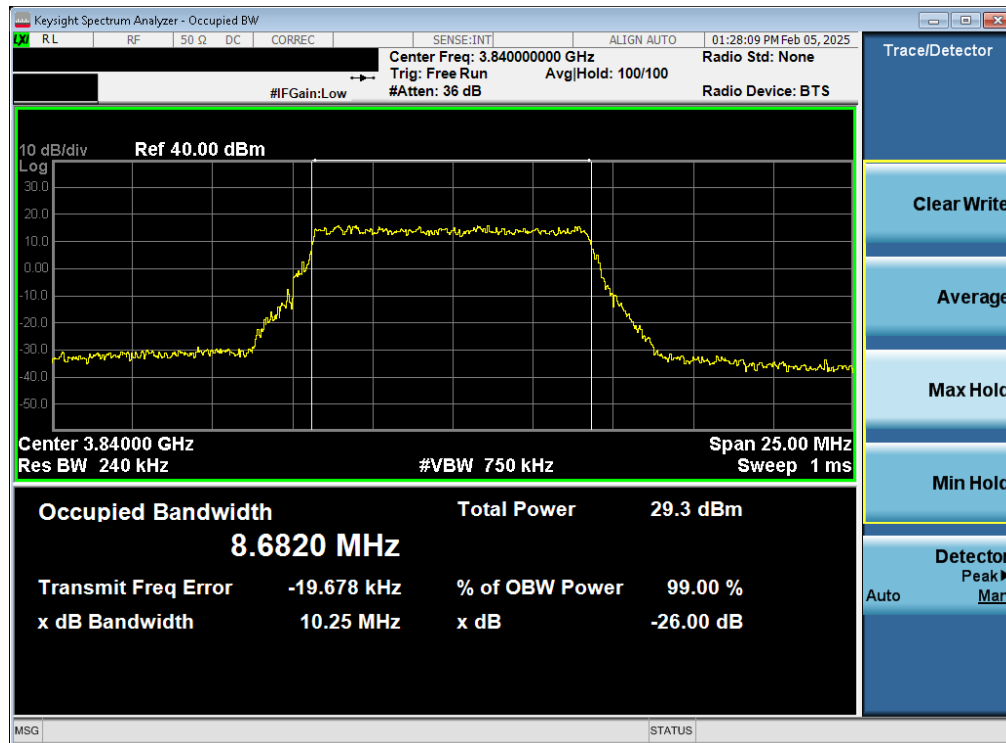


Plot 7-275. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz $\pi/2$ BPSK - Full RB - UL MIMO Ant1)



Plot 7-276. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz QPSK - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 172 of 287



Plot 7-277. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz 16-QAM - Full RB - UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 173 of 287

7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. 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.

For operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any spurious emission is -13dBm/MHz.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to the tenth harmonic of the highest transmit frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

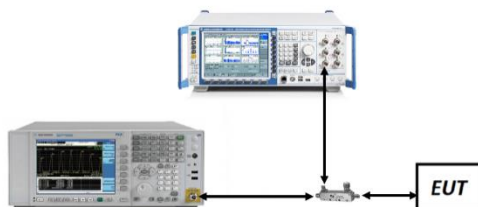


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27.53(l), Part 27.53(n), and RSS-199, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. 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.
3. Per ANSI C63.26-2015, MIMO compliance was addressed by adding $10\log(2) = 3\text{dB}$ to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

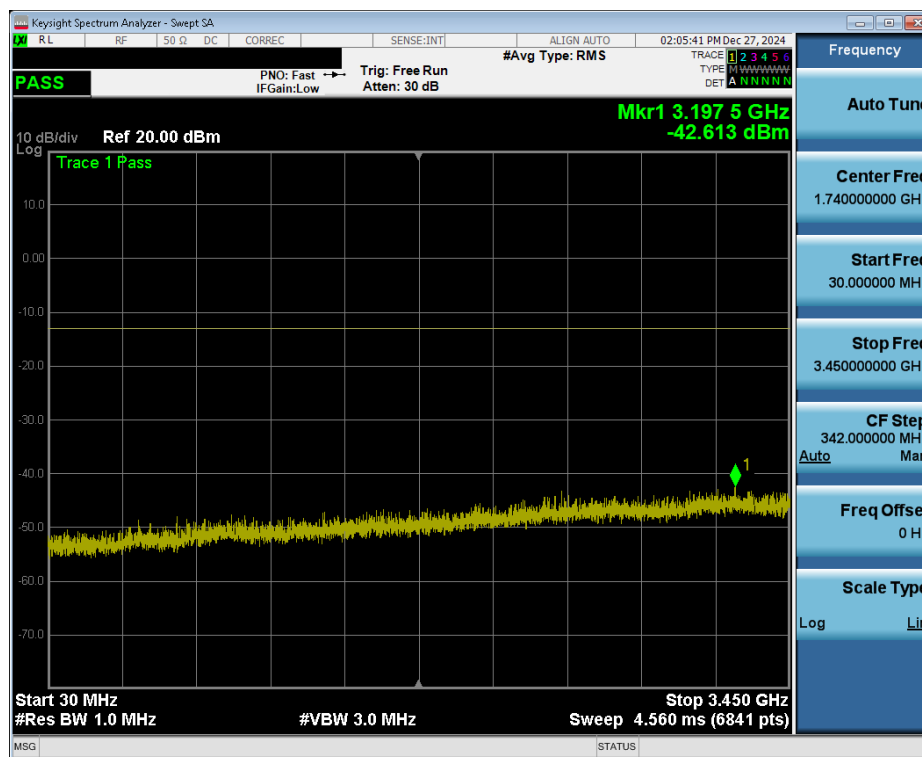
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 174 of 287

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-42.61	-13	-29.61
		Mid	3550.0 - 20000.0	-33.81	-13	-20.81
		Mid	20000.0 - 40000.0	-41.36	-13	-28.36
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-41.89	-13	-28.89
		Low	3980.0 - 20000.0	-35.12	-13	-22.12
		Low	20000.0 - 40000.0	-45.2	-13	-32.20
		Mid	30.0 - 3700.0	-42.16	-13	-29.16
		Mid	3980.0 - 20000.0	-34.43	-13	-21.43
		Mid	20000.0 - 40000.0	-46.08	-13	-33.08
		High	30.0 - 3700.0	-42.94	-13	-29.94
		High	3980.0 - 20000.0	-34.72	-13	-21.72
		High	20000.0 - 40000.0	-41.57	-13	-28.57

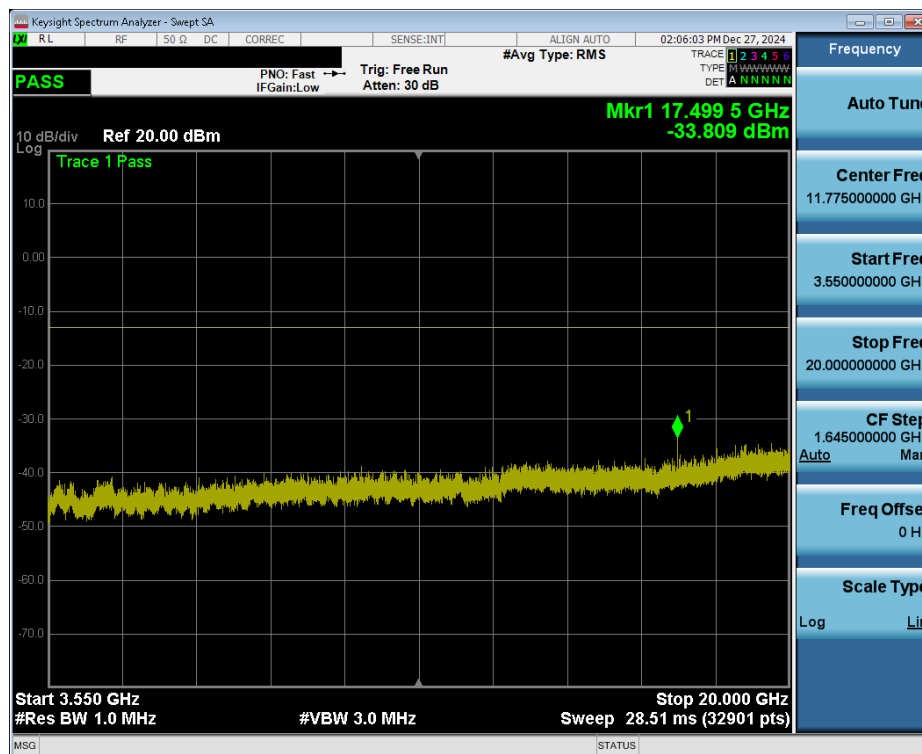
Table 7-20. Conducted Spurious Emission Test Results– NR Band n77 – Ant 1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 DoD – Ant6

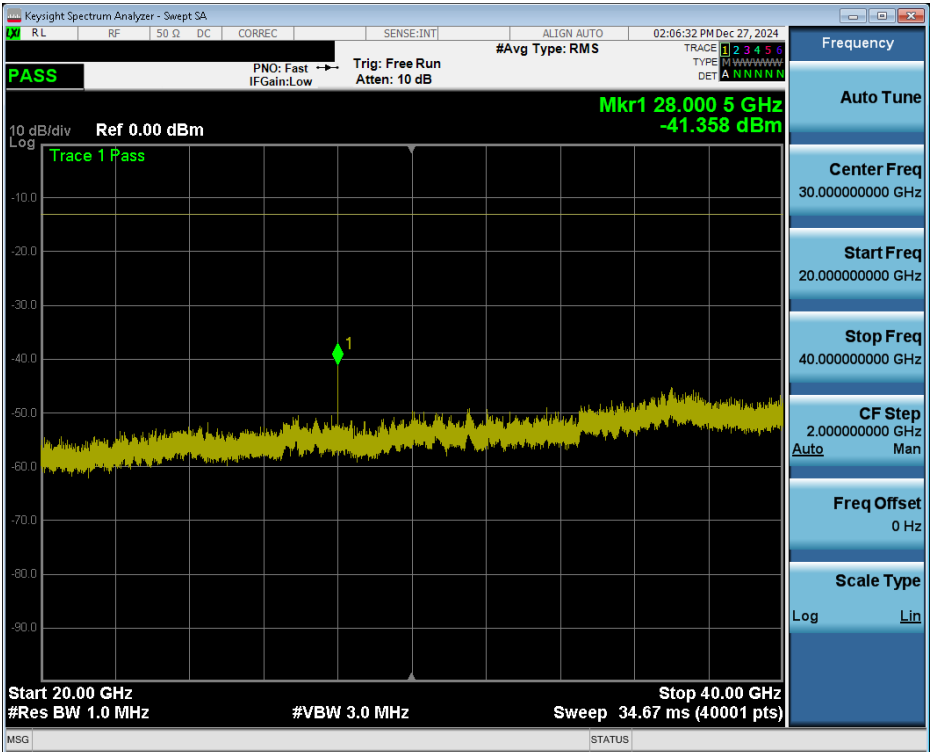


Plot 7-278. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel - Ant6)



Plot 7-279. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel - Ant6)

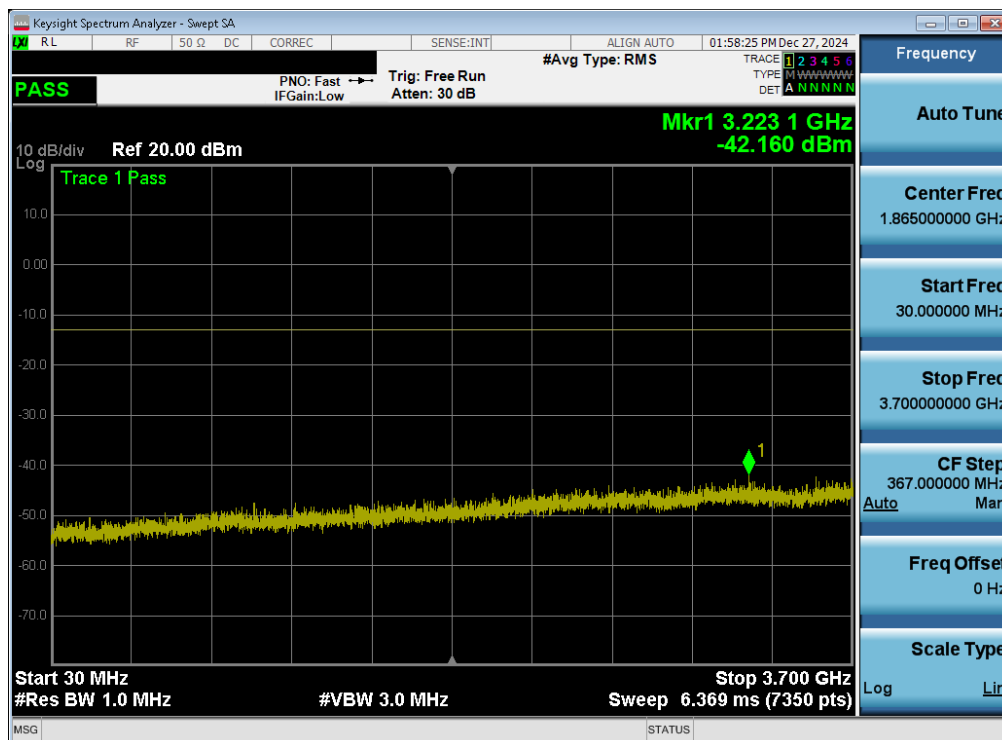
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 176 of 287



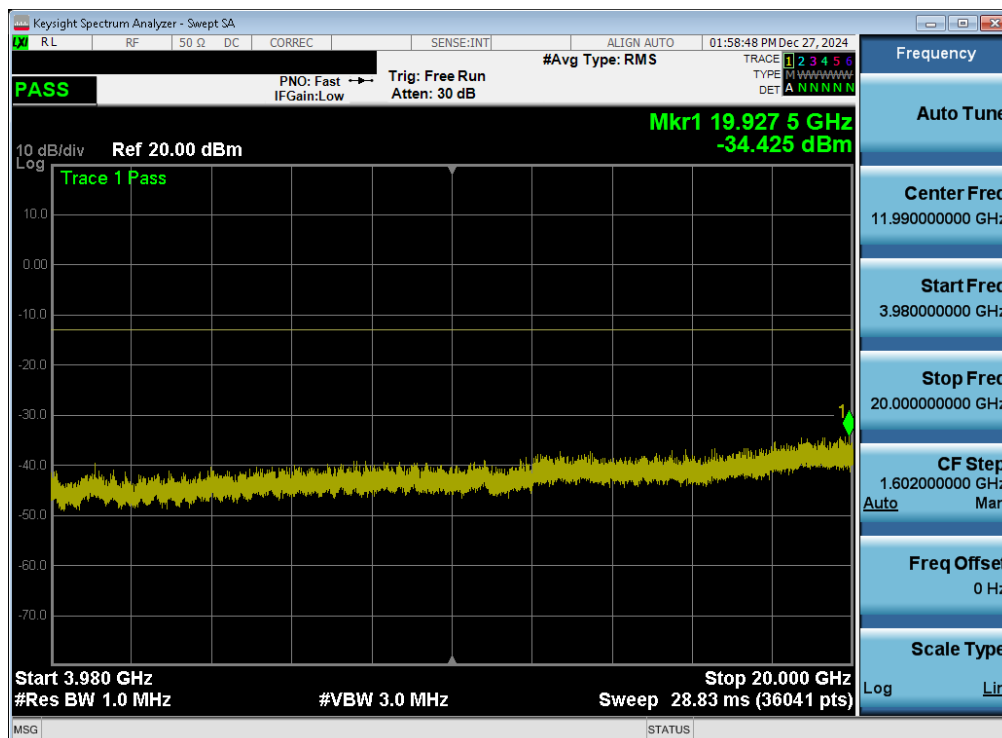
Plot 7-280. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel - Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 177 of 287

NR Band n77 C-Band – Ant6

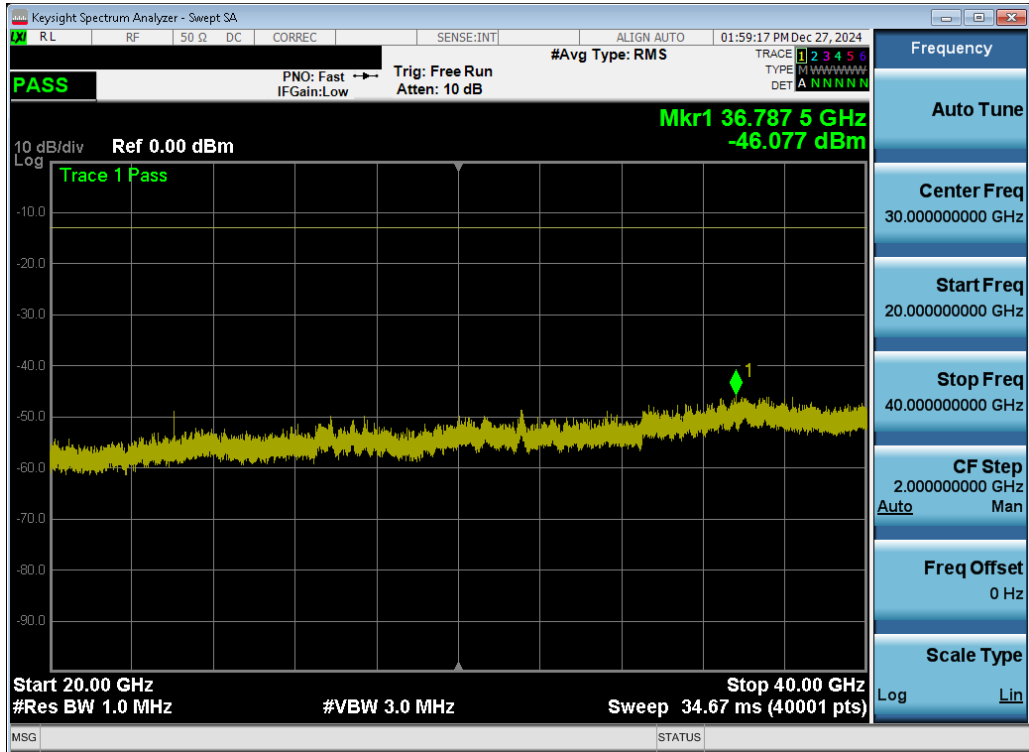


Plot 7-281. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel - Ant6)



Plot 7-282. Conducted Spurious Plot (NR Band n77 C-Band - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel - Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 178 of 287



Plot 7-283. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel - Ant6)

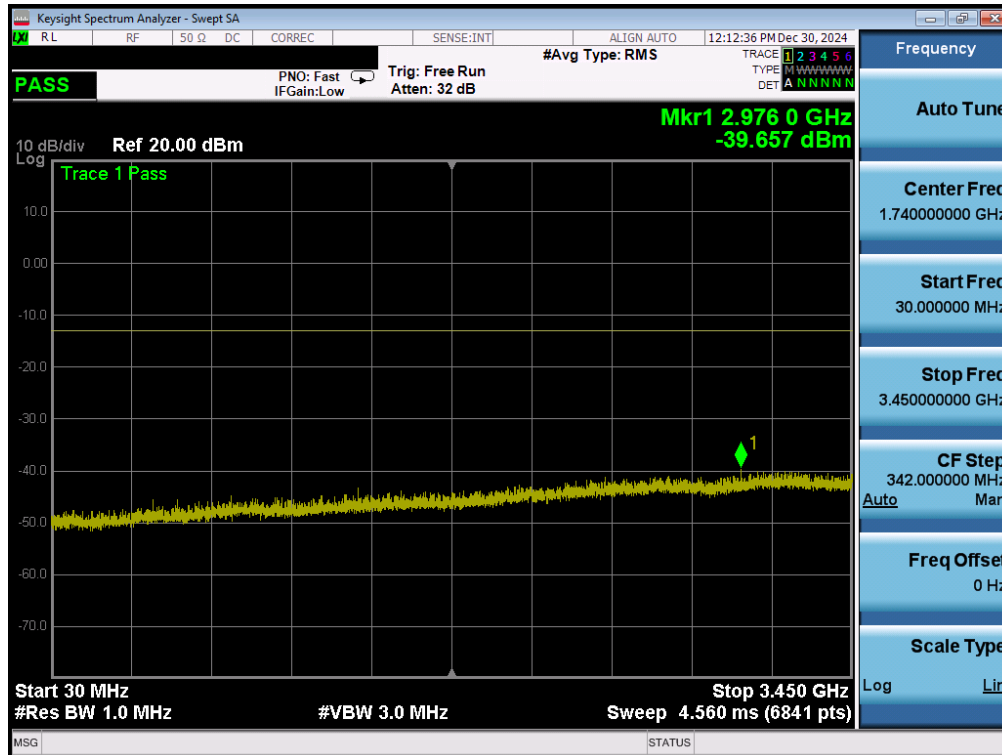
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 179 of 287

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-39.66	-13	-26.66
		Mid	3550.0 - 20000.0	-28.96	-13	-15.96
		Mid	20000.0 - 40000.0	-29.21	-13	-16.20
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-40.15	-13	-27.15
		Low	3980.0 - 20000.0	-30.97	-13	-17.97
		Low	20000.0 - 40000.0	-31.04	-13	-18.04
		Mid	30.0 - 3700.0	-26.27	-13	-13.27
		Mid	3980.0 - 20000.0	-33.18	-13	-20.18
		Mid	20000.0 - 40000.0	-28.72	-13	-15.72
		High	30.0 - 3700.0	-38.33	-13	-25.33
		High	3980.0 - 20000.0	-33.13	-13	-20.13
		High	20000.0 - 40000.0	-29.18	-13	-16.18

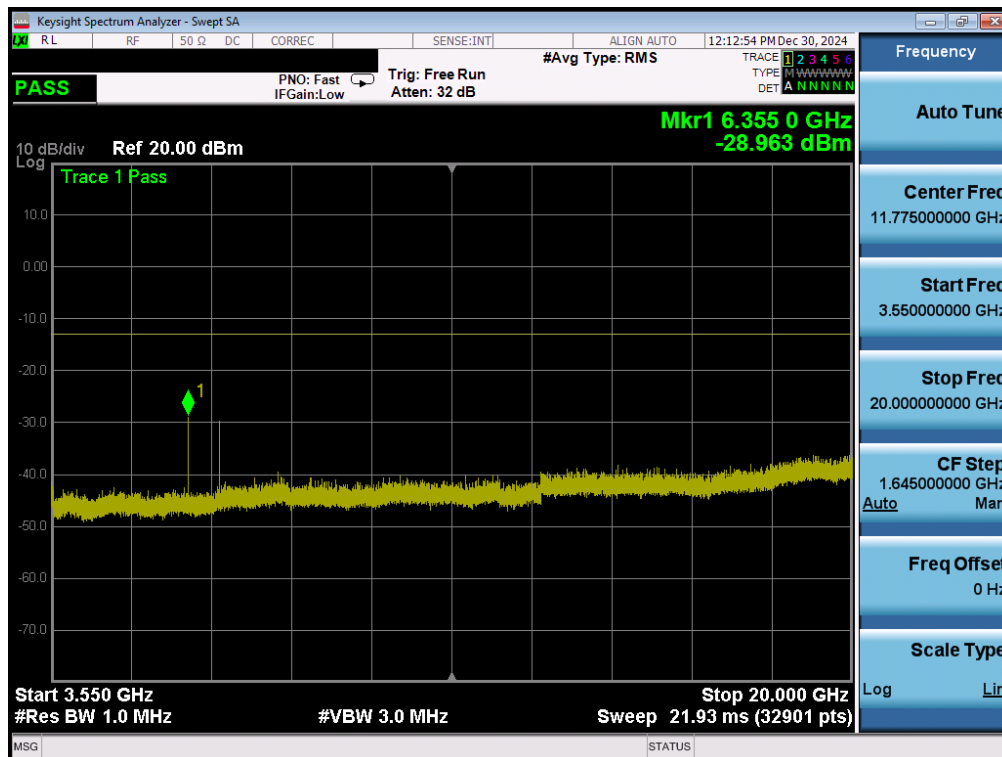
Table 7-21. Conducted Spurious Emission Test Results– NR Band n77 – Ant 1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 180 of 287

NR Band n77 DoD – Ant1

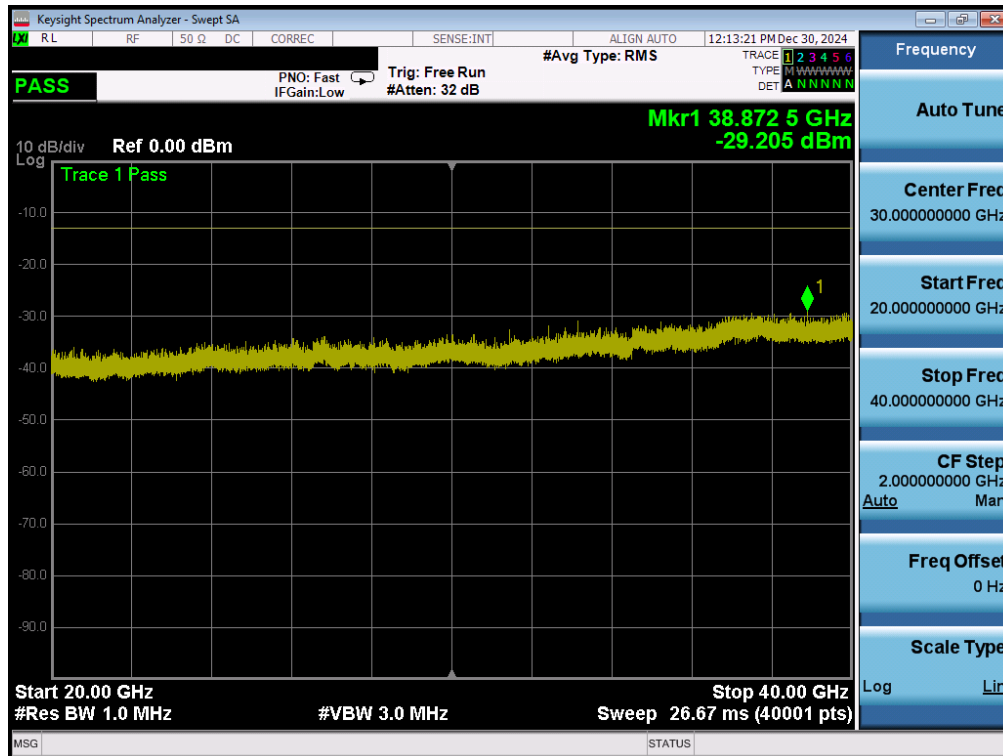


Plot 7-284. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – Ant1)



Plot 7-285. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – Ant1)

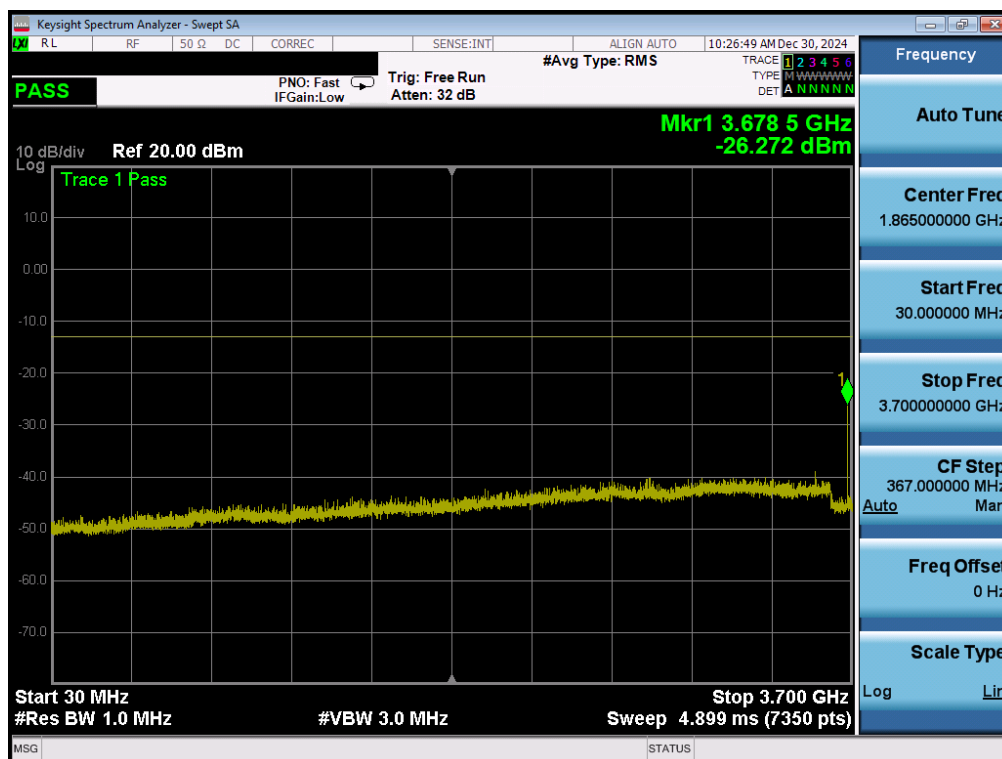
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 181 of 287



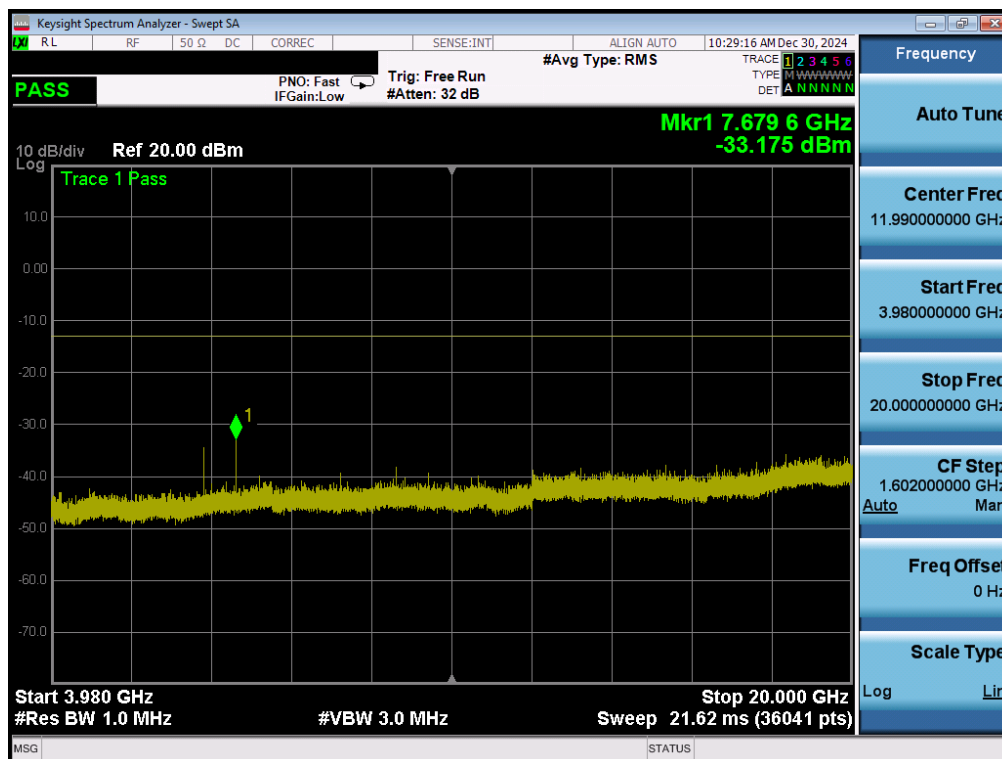
Plot 7-286. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 C-Band – Ant1

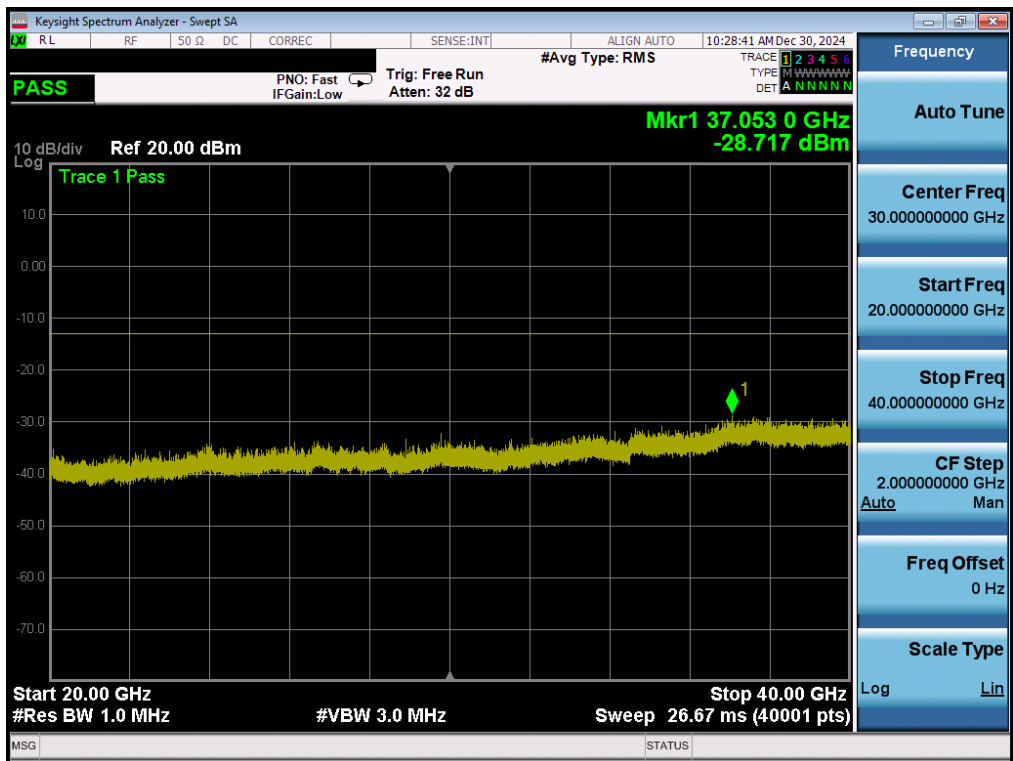


Plot 7-287. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – Ant1)



Plot 7-288. Conducted Spurious Plot (NR Band n77 C-Band - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 183 of 287



Plot 7-289. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 184 of 287

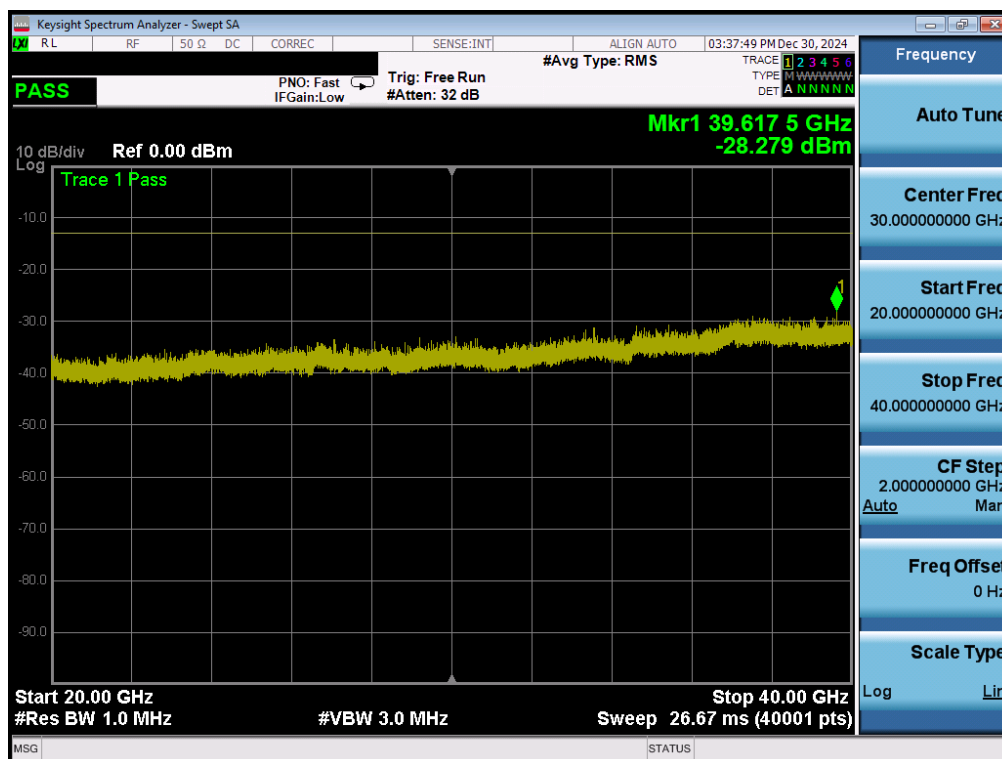
Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-40.01	-13	-27.01
		Mid	3550.0 - 20000.0	-27.08	-13	-14.08
		Mid	20000.0 - 40000.0	-28.28	-13	-15.28
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-39.33	-13	-26.33
		Low	3980.0 - 20000.0	-30.19	-13	-17.19
		Low	20000.0 - 40000.0	-28.93	-13	-15.93
		Mid	30.0 - 3700.0	-25.38	-13	-12.38
		Mid	3980.0 - 20000.0	-30.55	-13	-17.55
		Mid	20000.0 - 40000.0	-28.14	-13	-15.14
		High	30.0 - 3700.0	-39.76	-13	-26.76
		High	3980.0 - 20000.0	-32.26	-13	-19.26
		High	20000.0 - 40000.0	-28.06	-13	-15.06

Table 7-22. Conducted Spurious Emission Test Results– NR Band n77 – SRS Ant3

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-41.51	-13	-28.50
		Mid	3550.0 - 20000.0	-34.95	-13	-21.95
		Mid	20000.0 - 40000.0	-45.2	-13	-32.20
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-39.88	-13	-26.88
		Low	3980.0 - 20000.0	-34.38	-13	-21.38
		Low	20000.0 - 40000.0	-28.69	-13	-15.69
		Mid	30.0 - 3700.0	-30.01	-13	-17.01
		Mid	3980.0 - 20000.0	-35.33	-13	-22.33
		Mid	20000.0 - 40000.0	-28.76	-13	-15.76
		High	30.0 - 3700.0	-39.92	-13	-26.92
		High	3980.0 - 20000.0	-36.3	-13	-23.29
		High	20000.0 - 40000.0	-28.78	-13	-15.78

Table 7-23. Conducted Spurious Emission Test Results– NR Band n77 – SRS Ant4

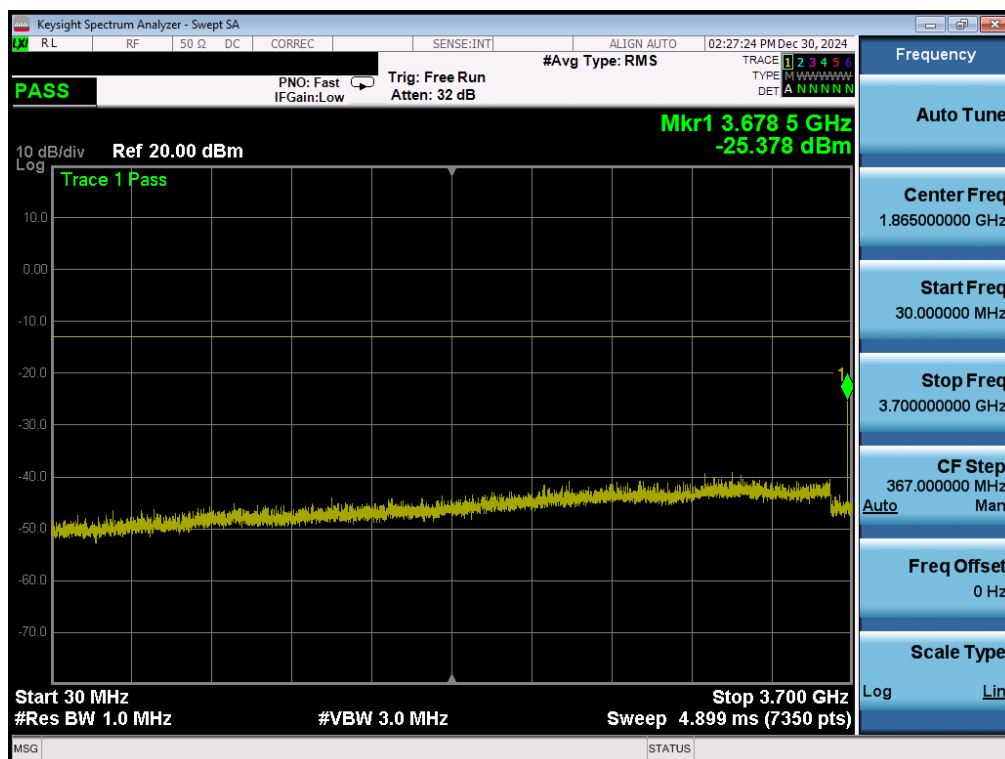
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 185 of 287



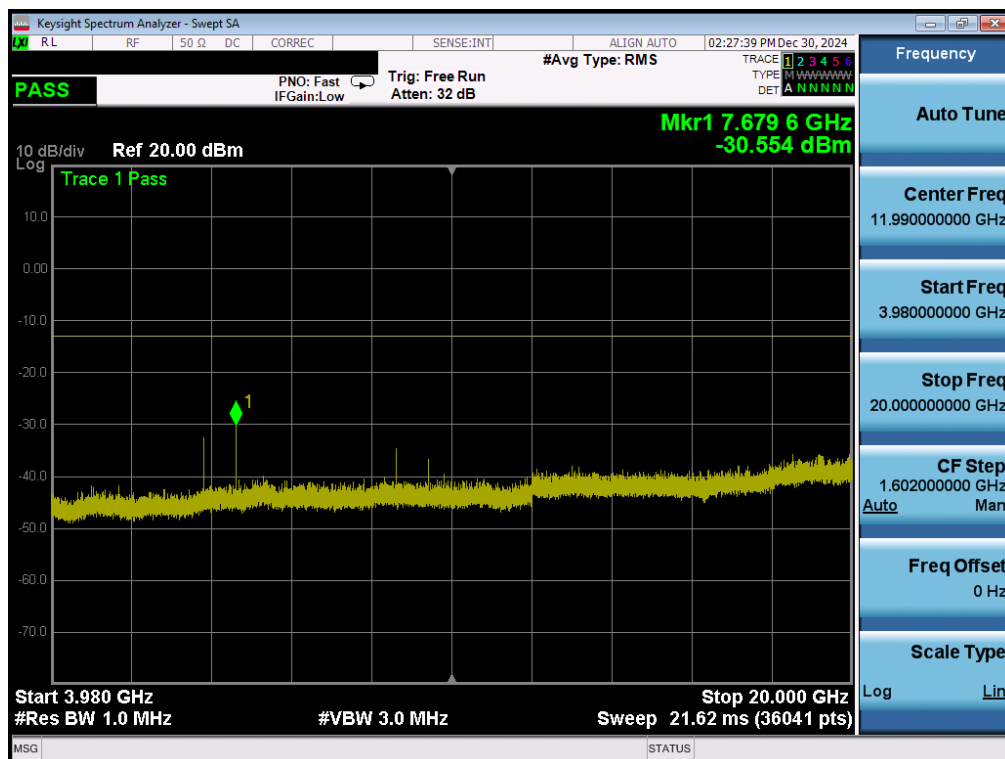
Plot 7-292. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – SRS Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 C-Band – SRS Ant3

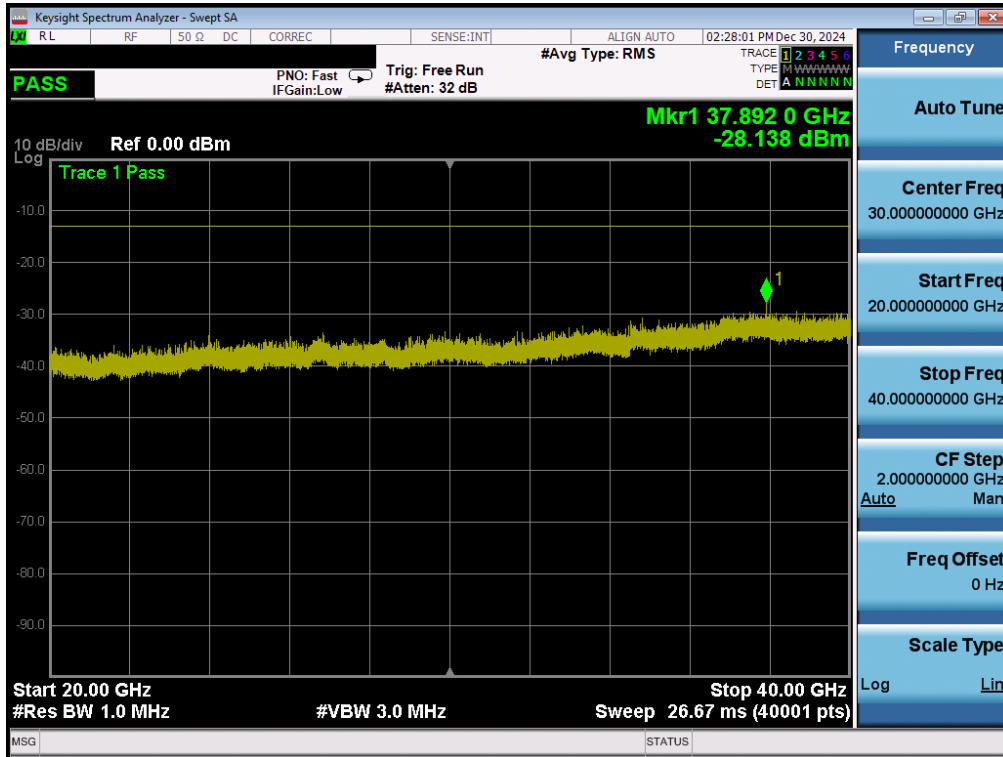


Plot 7-293. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – SRS Ant3)



Plot 7-294. Conducted Spurious Plot (NR Band n77 C-Band - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – SRS Ant3)

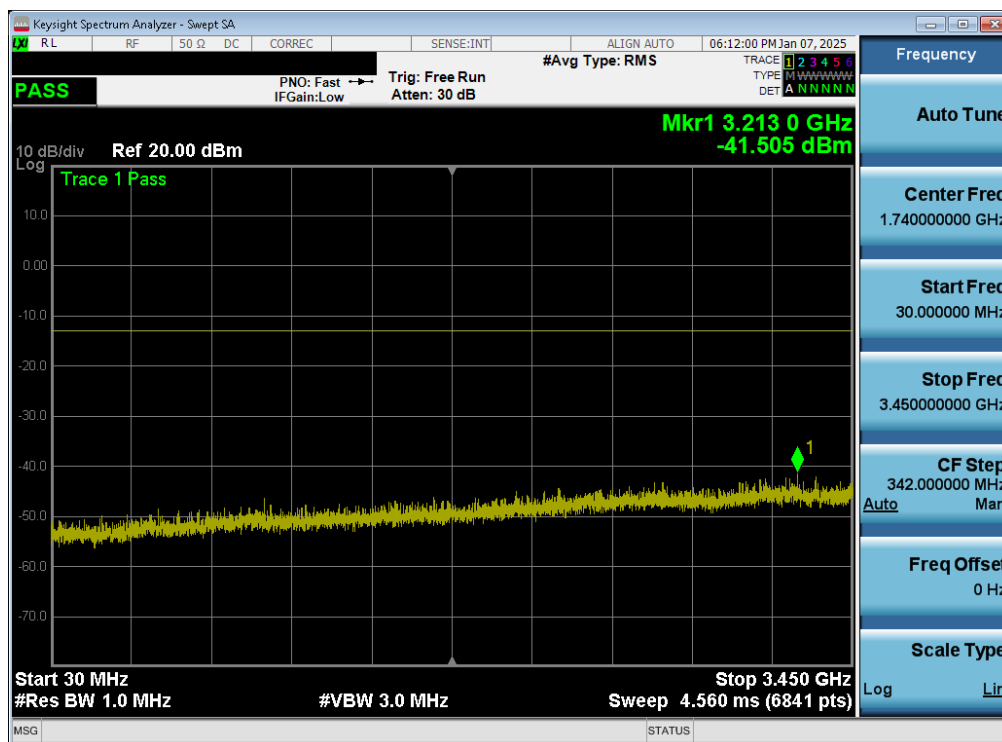
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 188 of 287



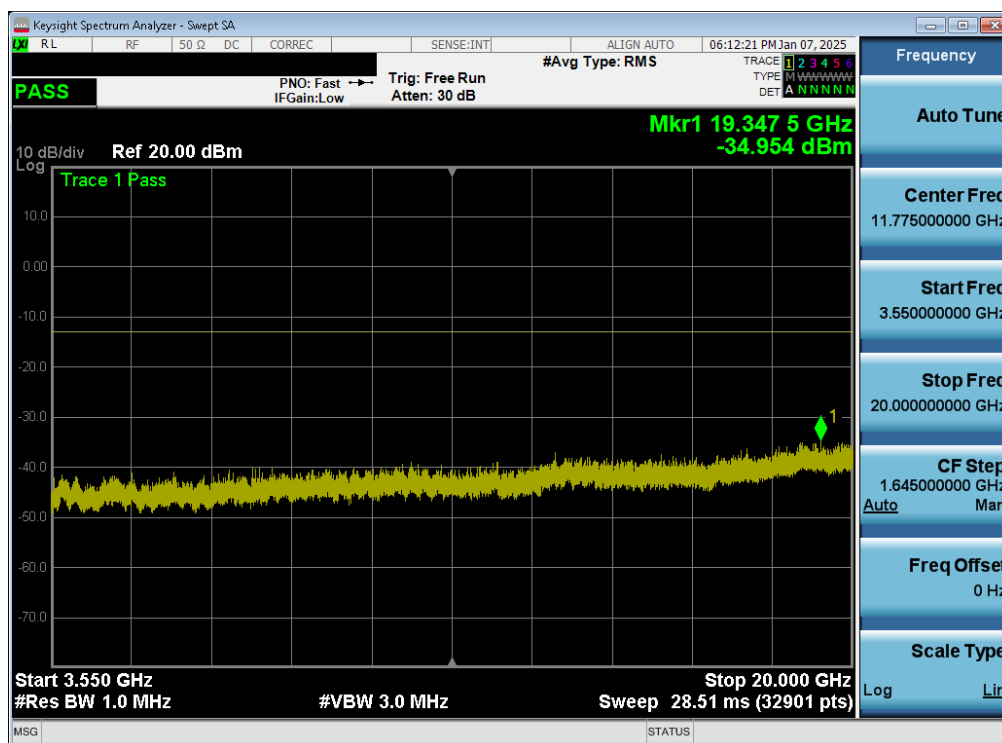
Plot 7-295. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – SRS Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 DoD – SRS Ant4

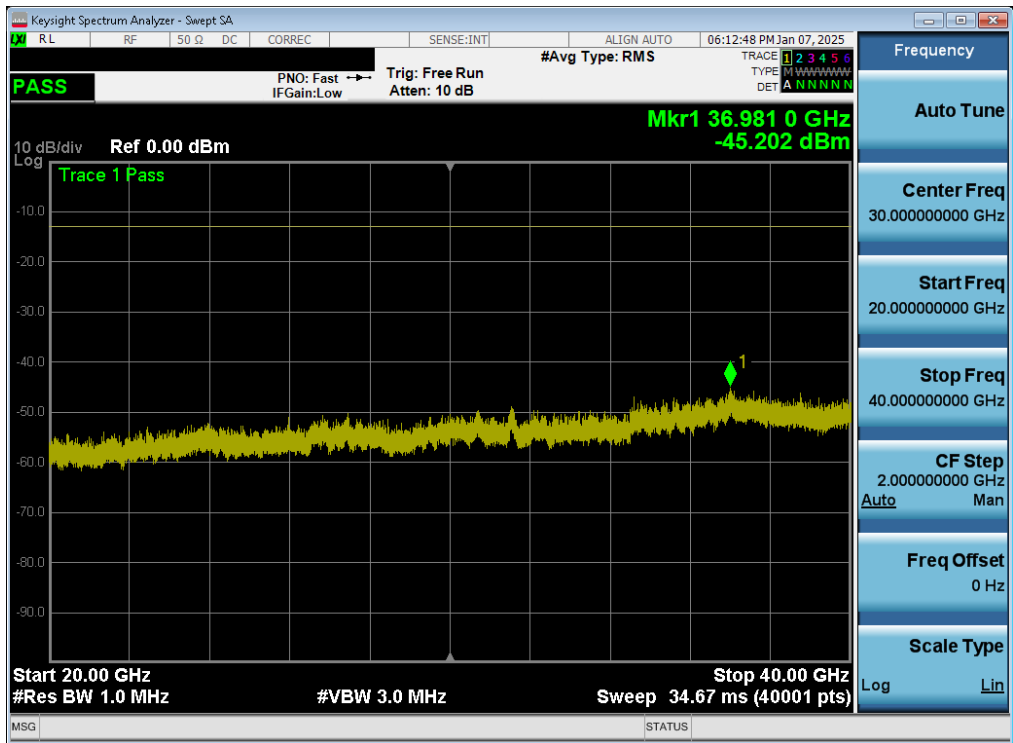


Plot 7-296. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – SRS Ant4)



Plot 7-297. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – SRS Ant4)

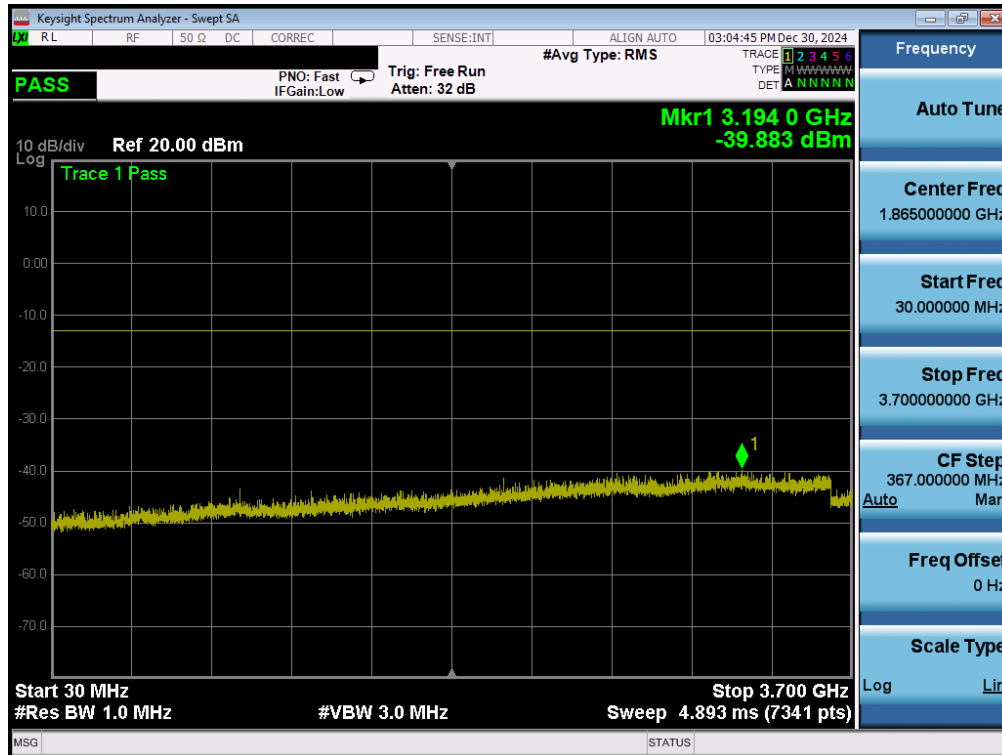
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 190 of 287



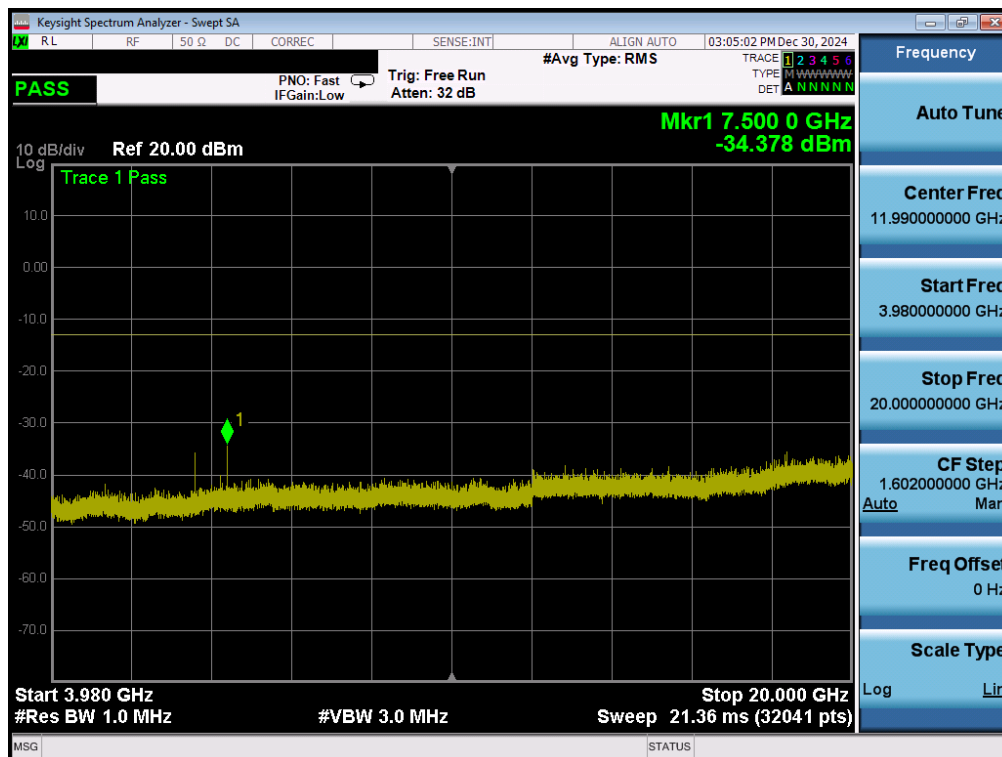
Plot 7-298. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – SRS Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 191 of 287

NR Band n77 C-Band – SRS Ant4



Plot 7-299. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel – SRS Ant4)



Plot 7-300. Conducted Spurious Plot (NR Band n77 C-Band - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel – SRS Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 192 of 287

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-41.1	-13	-28.10
		Mid	3550.0 - 20000.0	-31.48	-13	-18.48
		Mid	20000.0 - 40000.0	-35.98	-13	-22.98
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-37.64	-13	-24.64
		Low	3980.0 - 20000.0	-28.78	-13	-15.78
		Low	20000.0 - 40000.0	-39.23	-13	-26.22
		Mid	30.0 - 3700.0	-38.06	-13	-25.06
		Mid	3980.0 - 20000.0	-28.57	-13	-15.57
		Mid	20000.0 - 40000.0	-38.14	-13	-25.14
		High	30.0 - 3700.0	-36.33	-13	-23.33
		High	3980.0 - 20000.0	-28.34	-13	-15.34
		High	20000.0 - 40000.0	-38.55	-13	-25.54

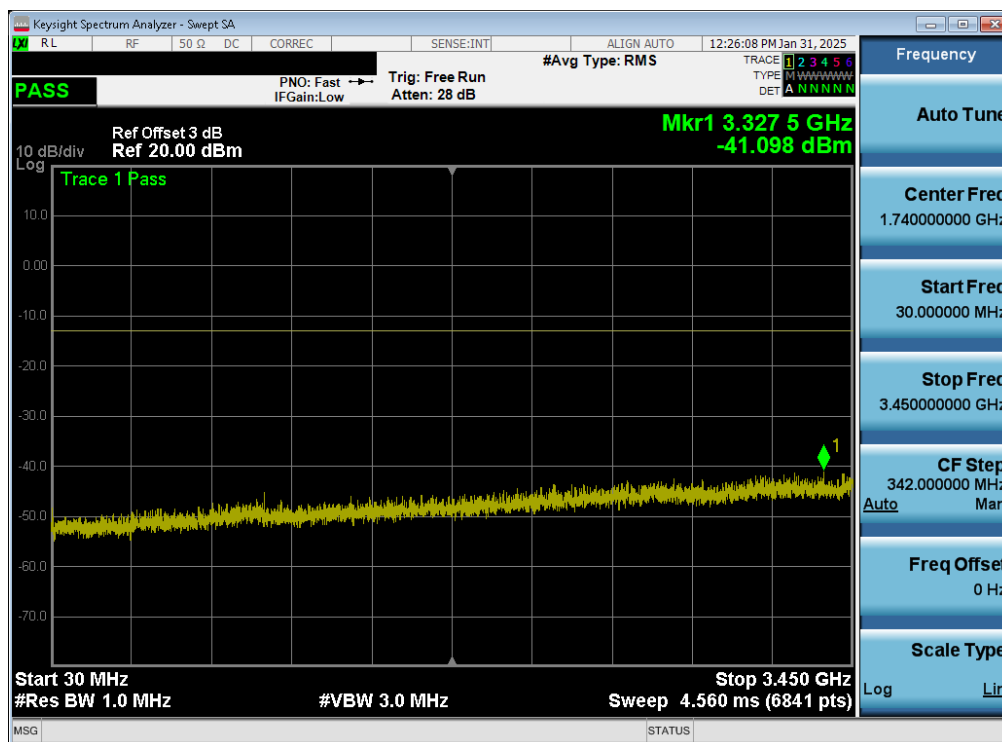
Table 7-24. Conducted Spurious Emission Test Results– NR Band n77 – UL MIMO Ant6

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-40.54	-13	-27.54
		Mid	3550.0 - 20000.0	-33.13	-13	-20.12
		Mid	20000.0 - 40000.0	-41.56	-13	-28.55
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-37.66	-13	-24.66
		Low	3980.0 - 20000.0	-28.76	-13	-15.76
		Low	20000.0 - 40000.0	-39.36	-13	-26.36
		Mid	30.0 - 3700.0	-36.91	-13	-23.91
		Mid	3980.0 - 20000.0	-28.33	-13	-15.33
		Mid	20000.0 - 40000.0	-39.18	-13	-26.18
		High	30.0 - 3700.0	-37.34	-13	-24.34
		High	3980.0 - 20000.0	-29.16	-13	-16.15
		High	20000.0 - 40000.0	-39.33	-13	-26.33

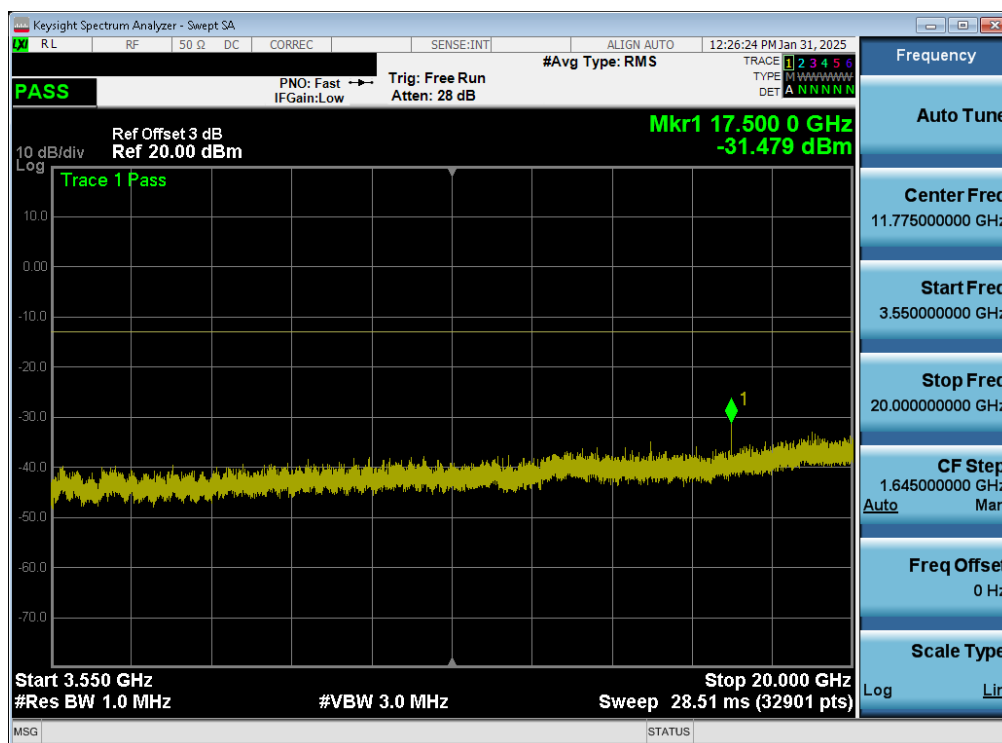
Table 7-25. Conducted Spurious Emission Test Results– NR Band n77 – UL MIMO Ant1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 DoD – UL MIMO Ant6

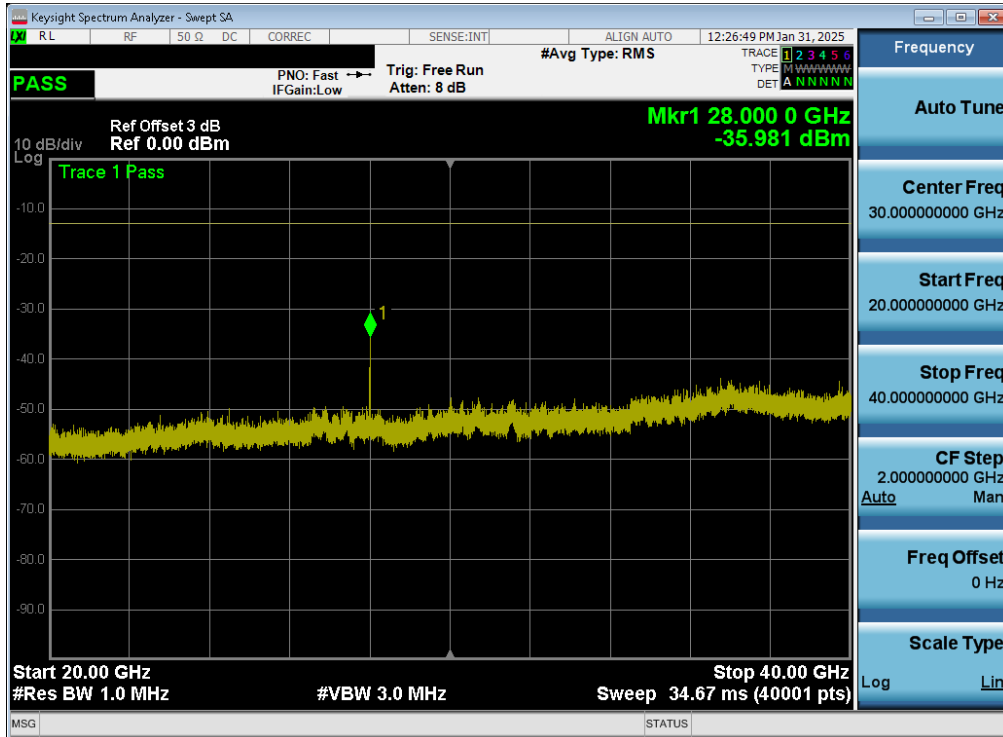


Plot 7-302. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant6)



Plot 7-303. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant6)

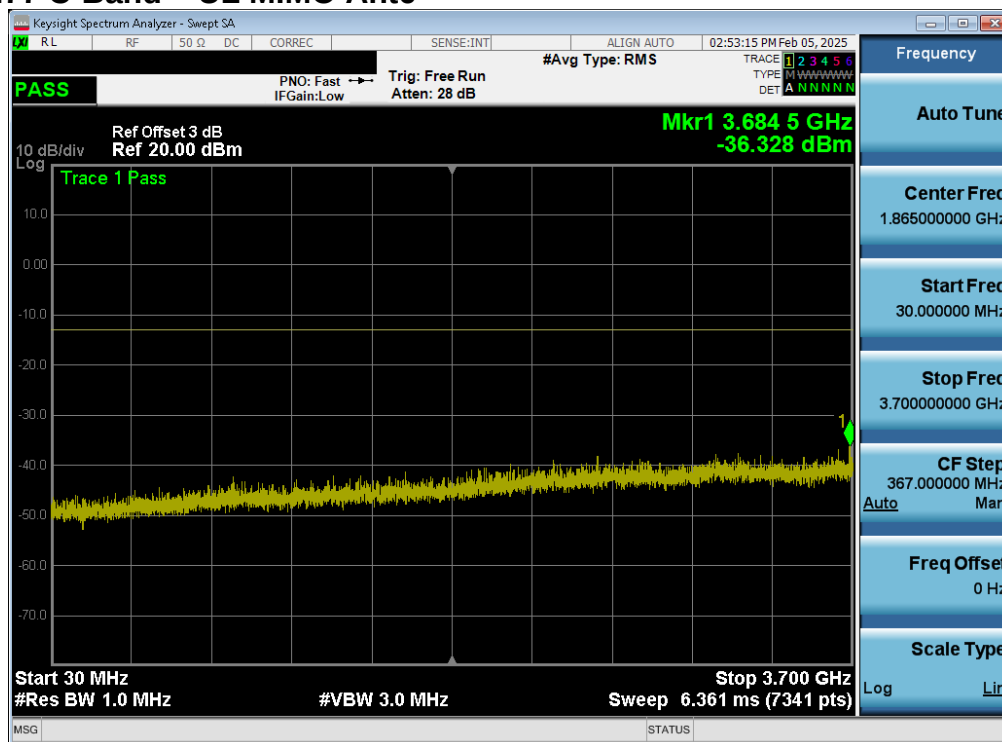
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 195 of 287



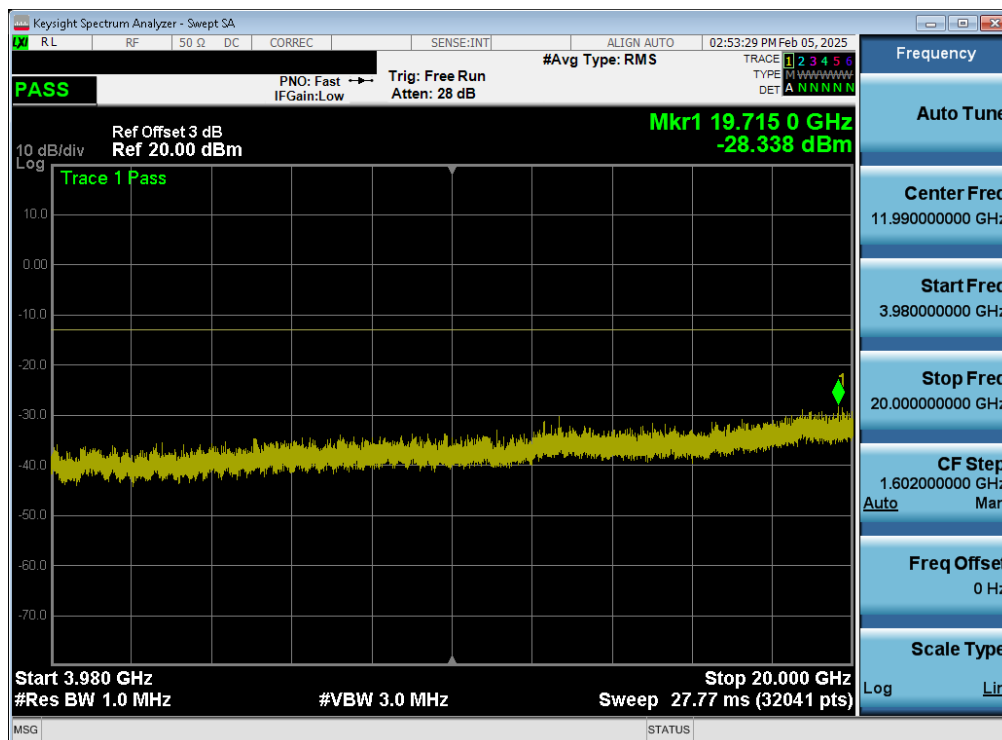
Plot 7-304. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 C-Band – UL MIMO Ant6

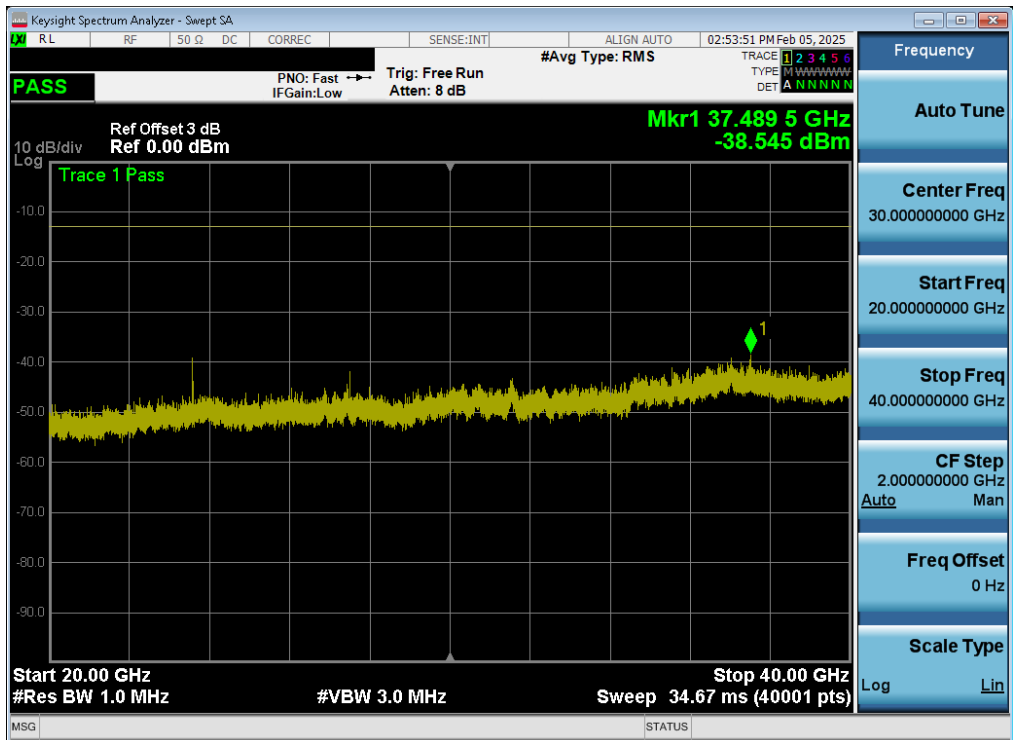


Plot 7-305. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - High Channel – UL MIMO Ant6)



Plot 7-306. Conducted Spurious Plot (NR Band n77 C-Band - 100MHz QPSK - RB Size 1, RB Offset 136 - High Channel – UL MIMO Ant6)

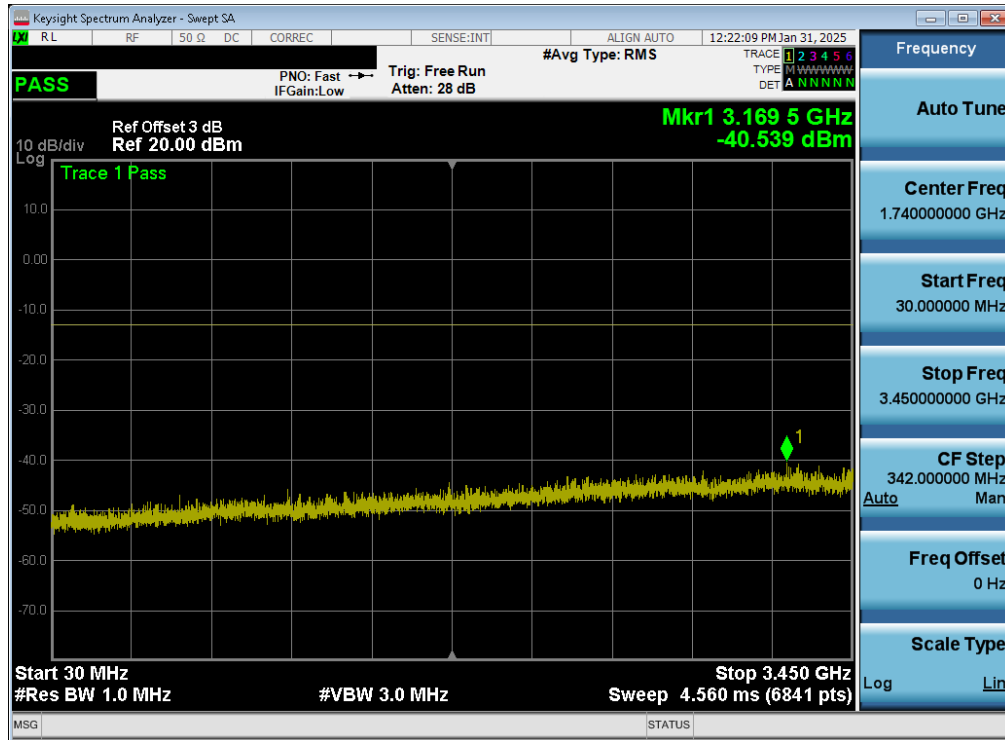
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 197 of 287



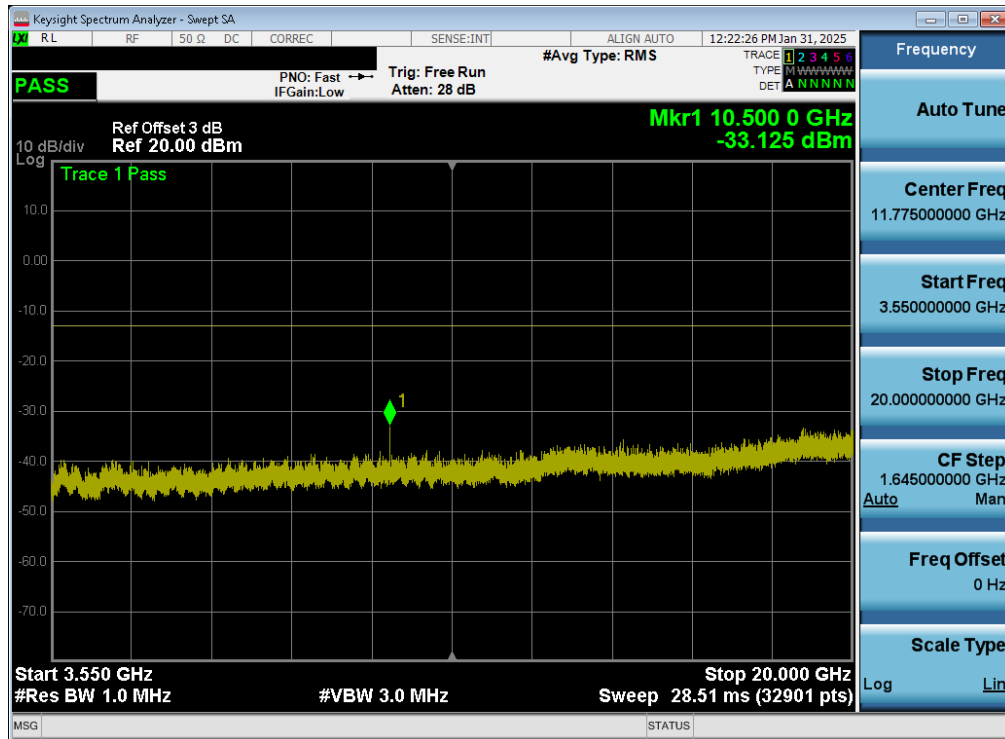
Plot 7-307. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - High Channel – UL MIMO Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 DoD – UL MIMO Ant1

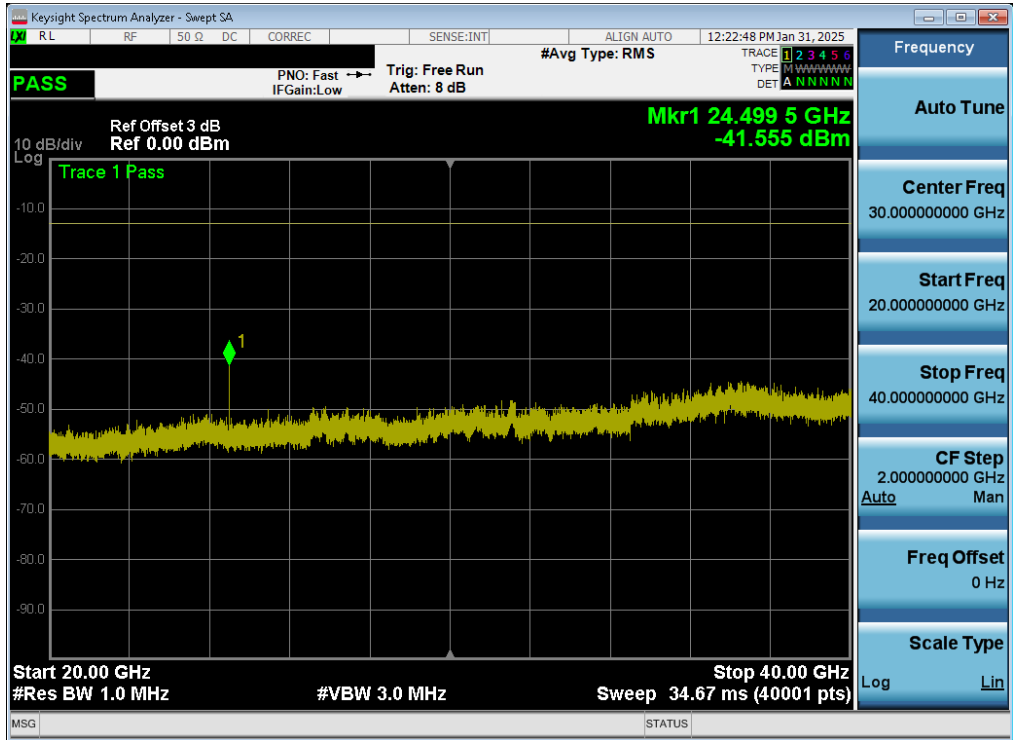


Plot 7-308. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant1)



Plot 7-309. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant1)

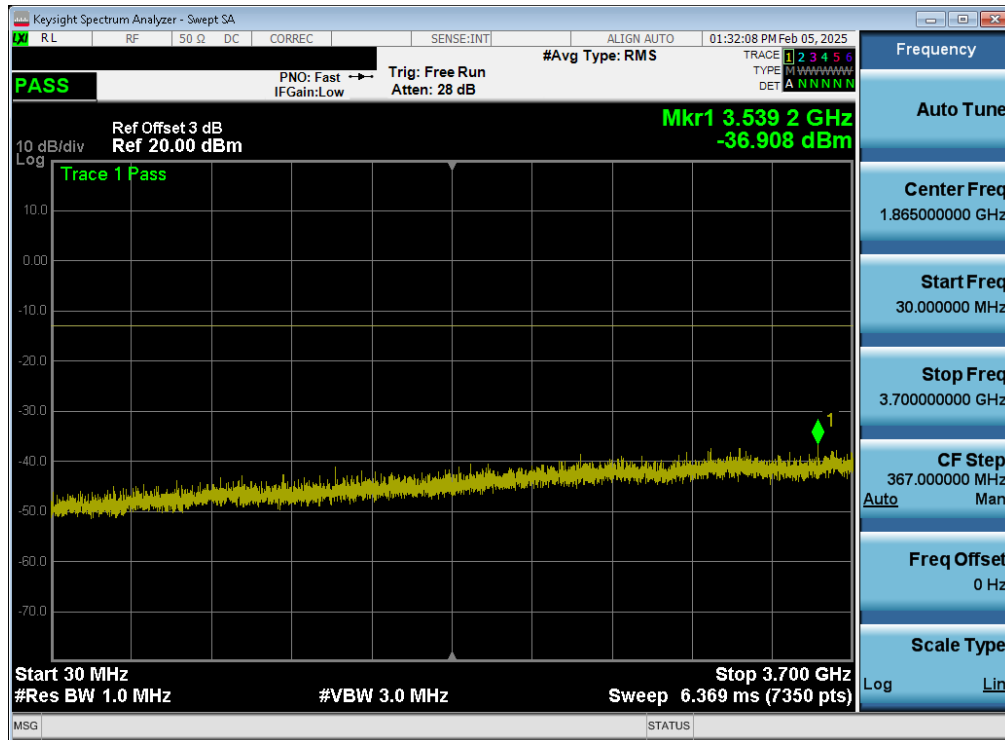
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 199 of 287



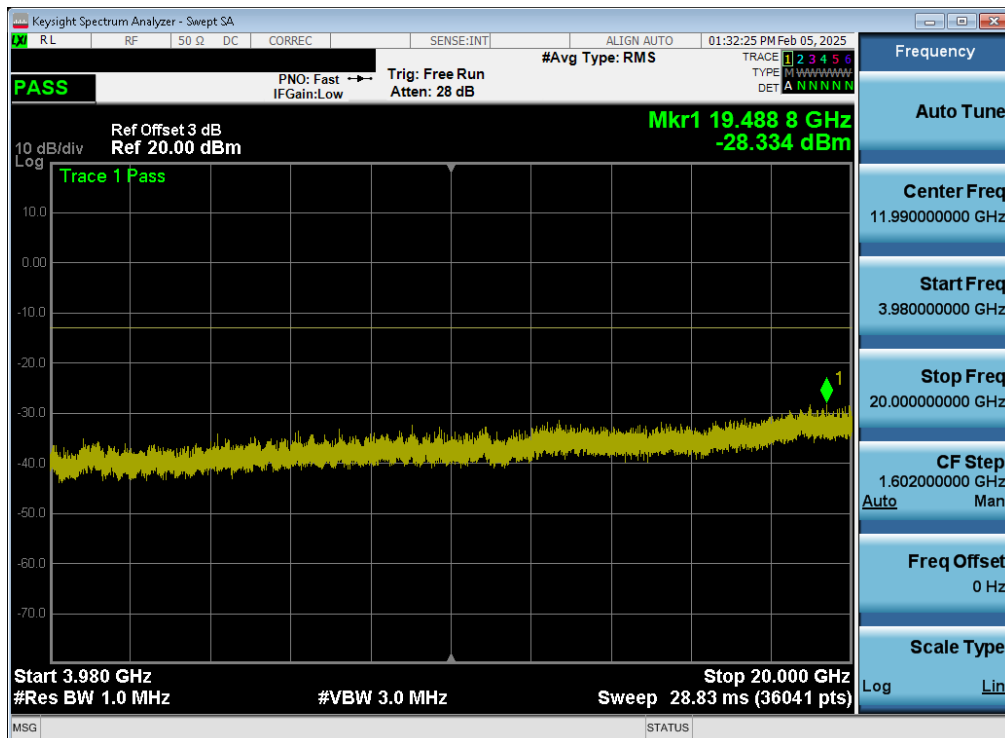
Plot 7-310. Conducted Spurious Plot (NR Band n77 DoD - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 200 of 287

NR Band n77 C-Band – UL MIMO Ant1

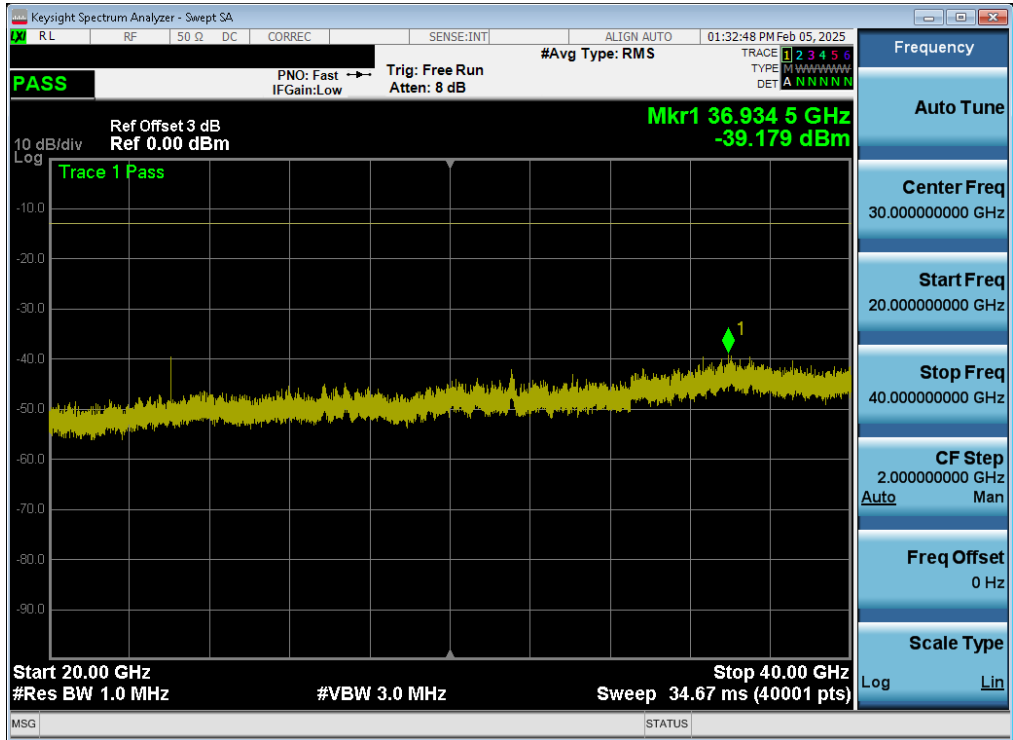


Plot 7-311. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant1)



Plot 7-312. Conducted Spurious Plot (NR Band n77 C-Band - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 201 of 287



Plot 7-313. Conducted Spurious Plot (NR Band n77 C-Band- 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.4.1 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.

For operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any out-of-band emission is -13dBm/MHz.

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. $VBW \geq 3 \times RBW$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/RBW$
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.

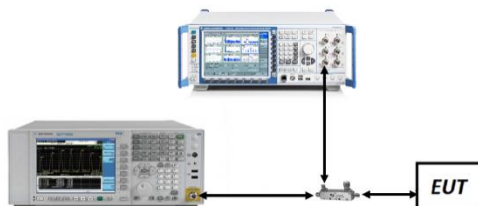


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

1. Per Part 27.53(l), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
2. Per Part 27.53(n), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
3. 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.
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.
5. Per ANSI C63.26-2015, MIMO compliance was addressed by adding $10\log(2) = 3\text{dB}$ to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

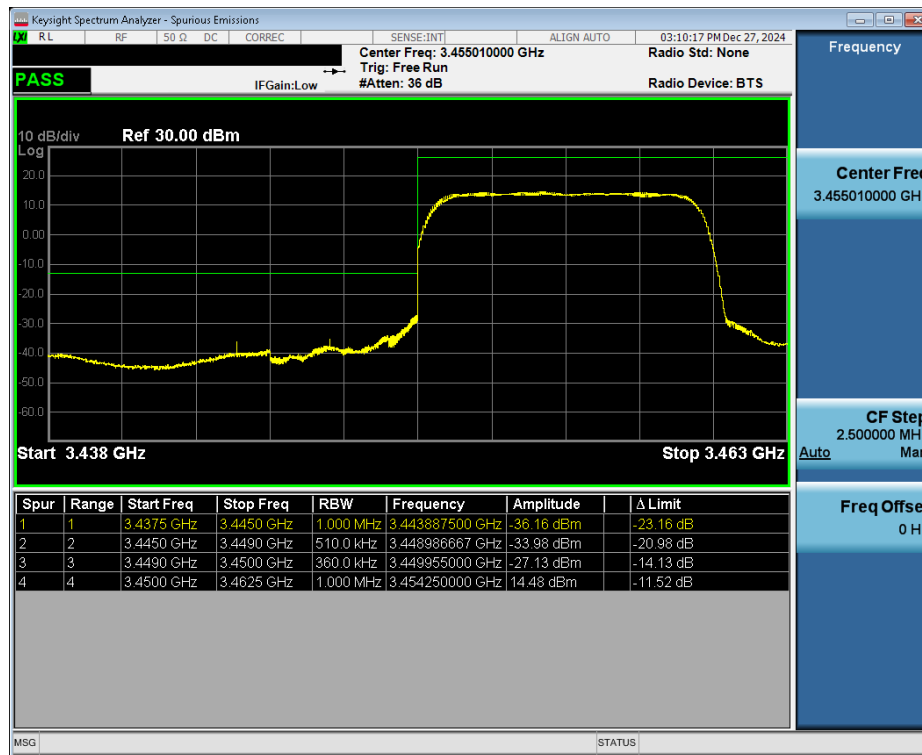
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-31.40	-13	-18.40
		High	Band Edge	-33.60	-13	-20.60
	90MHz	Low	Band Edge	-32.86	-13	-19.86
		High	Band Edge	-29.62	-13	-16.62
	80MHz	Low	Band Edge	-35.92	-13	-22.92
		High	Band Edge	-34.41	-13	-21.41
	70MHz	Low	Band Edge	-35.71	-13	-22.71
		High	Band Edge	-32.01	-13	-19.01
	60MHz	Low	Band Edge	-33.96	-13	-20.96
		High	Band Edge	-34.88	-13	-21.88
	50MHz	Low	Band Edge	-36.28	-13	-23.28
		High	Band Edge	-35.88	-13	-22.88
	40MHz	Low	Band Edge	-35.79	-13	-22.79
		High	Band Edge	-34.57	-13	-21.57
	30MHz	Low	Band Edge	-31.59	-13	-18.59
		High	Band Edge	-32.48	-13	-19.48
	20MHz	Low	Band Edge	-31.10	-13	-18.10
		High	Band Edge	-30.92	-13	-17.92
	15MHz	Low	Band Edge	-28.69	-13	-15.69
		High	Band Edge	-30.23	-13	-17.23
	10MHz	Low	Band Edge	-27.13	-13	-14.13
		High	Band Edge	-27.10	-13	-14.10
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-36.01	-13	-23.01
		High	Band Edge	-32.30	-13	-19.30
	90MHz	Low	Band Edge	-28.78	-13	-15.78
		High	Band Edge	-31.02	-13	-18.02
	80MHz	Low	Band Edge	-34.36	-13	-21.36
		High	Band Edge	-32.27	-13	-19.27
	70MHz	Low	Band Edge	-32.52	-13	-19.52
		High	Band Edge	-29.69	-13	-16.69
	60MHz	Low	Band Edge	-35.26	-13	-22.26
		High	Band Edge	-34.89	-13	-21.89
	50MHz	Low	Band Edge	-34.03	-13	-21.03
		High	Band Edge	-35.46	-13	-22.46
	40MHz	Low	Band Edge	-35.58	-13	-22.58
		High	Band Edge	-35.48	-13	-22.48
	30MHz	Low	Band Edge	-30.82	-13	-17.82
		High	Band Edge	-32.42	-13	-19.42
	20MHz	Low	Band Edge	-31.15	-13	-18.15
		High	Band Edge	-30.92	-13	-17.92
	15MHz	Low	Band Edge	-29.51	-13	-16.51
		High	Band Edge	-29.36	-13	-16.36
	10MHz	Low	Band Edge	-27.12	-13	-14.12
		High	Band Edge	-27.55	-13	-14.55

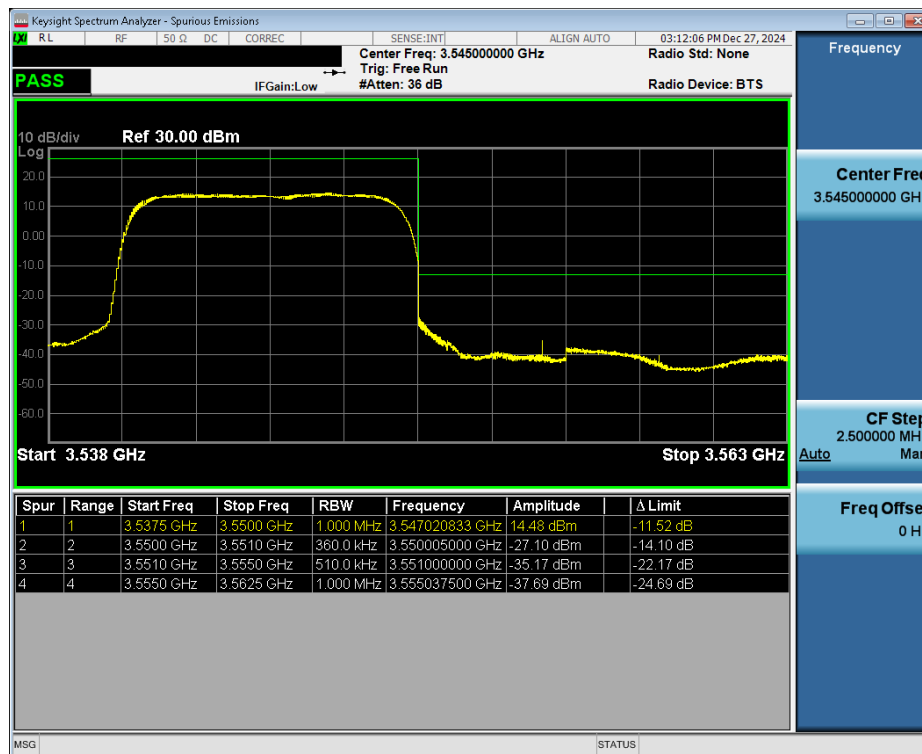
Table 7-26. Conducted Band Edge Test Results– NR Band n77 – Ant 6

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 205 of 287

NR Band n77 DoD – Ant6



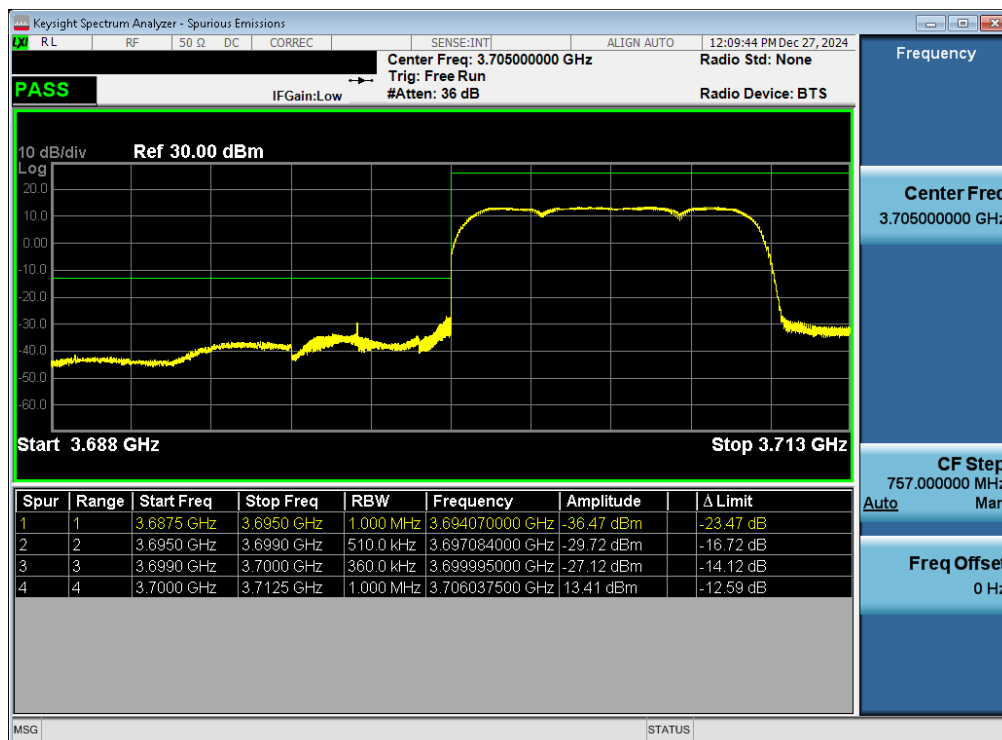
Plot 7-314. Lower ACP Plot (NR Band n77 - 10MHz DFTS-QPSK – Full RB - Ant6)



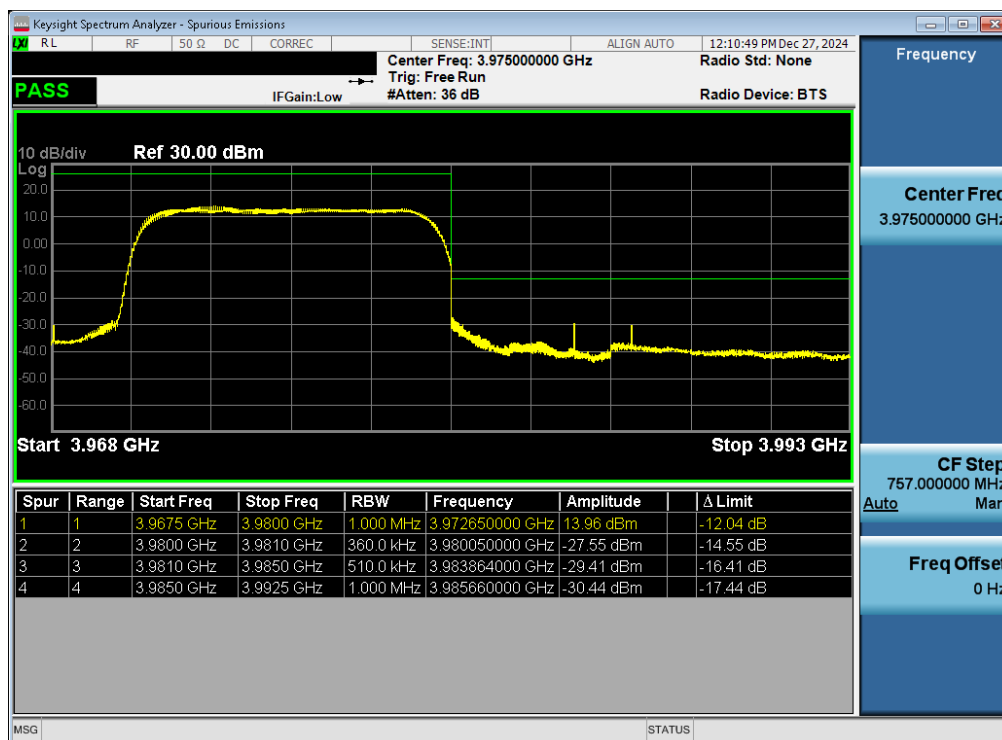
Plot 7-315. Upper ACP Plot (NR Band n77 - 10MHz DFTS-QPSK – Full RB - Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 206 of 287

NR Band n77 C-Band – Ant6



Plot 7-316. Lower ACP Plot (NR Band n77 - 10MHz DFTS-QPSK – Full RB - Ant6)



Plot 7-317. Upper ACP Plot (NR Band n77 - 10MHz DFTS-QPSK – Full RB - Ant6)

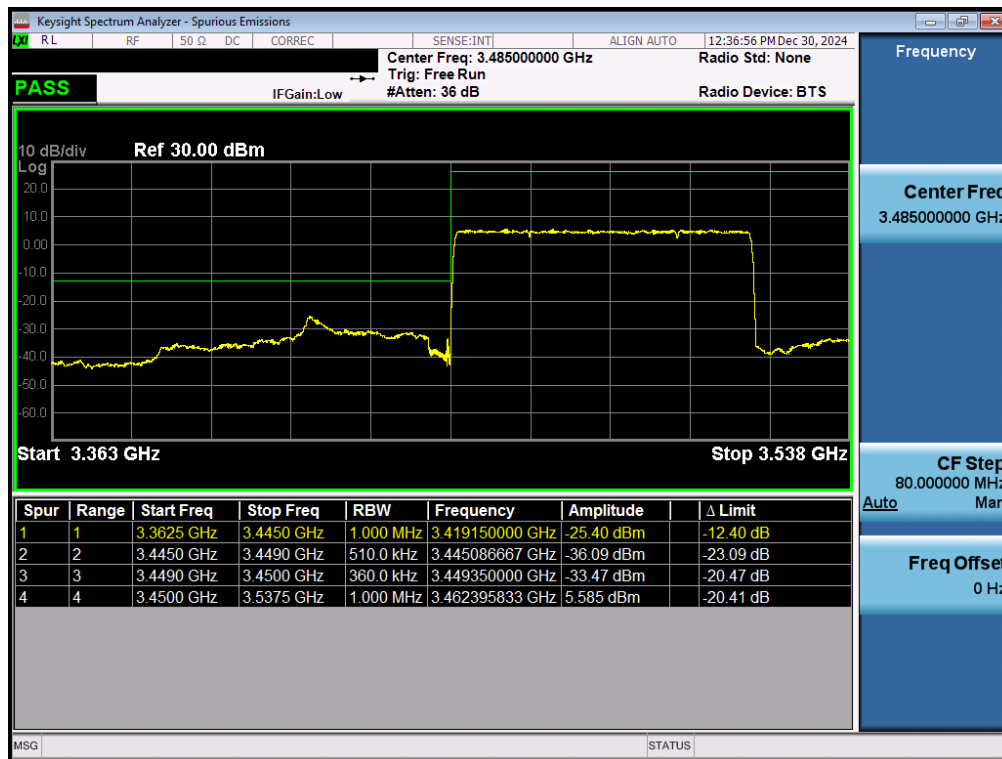
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 207 of 287

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-32.65	-13	-19.65
		High	Band Edge	-34.21	-13	-21.21
	90MHz	Low	Band Edge	-34.61	-13	-21.61
		High	Band Edge	-35.42	-13	-22.42
	80MHz	Low	Band Edge	-36.99	-13	-23.99
		High	Band Edge	-36.29	-13	-23.29
	70MHz	Low	Band Edge	-25.40	-13	-12.40
		High	Band Edge	-33.57	-13	-20.45
	60MHz	Low	Band Edge	-35.09	-13	-22.09
		High	Band Edge	-36.76	-13	-23.76
	50MHz	Low	Band Edge	-35.93	-13	-22.93
		High	Band Edge	-35.18	-13	-22.18
	40MHz	Low	Band Edge	-35.83	-13	-22.83
		High	Band Edge	-34.53	-13	-21.53
	30MHz	Low	Band Edge	-32.51	-13	-19.51
		High	Band Edge	-32.12	-13	-19.12
	20MHz	Low	Band Edge	-31.50	-13	-18.50
		High	Band Edge	-30.13	-13	-17.13
	15MHz	Low	Band Edge	-29.19	-13	-16.19
		High	Band Edge	-28.67	-13	-15.67
	10MHz	Low	Band Edge	-26.88	-13	-13.88
		High	Band Edge	-25.93	-13	-12.93
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-35.48	-13	-22.48
		High	Band Edge	-33.98	-13	-20.98
	90MHz	Low	Band Edge	-33.43	-13	-20.43
		High	Band Edge	-32.95	-13	-19.95
	80MHz	Low	Band Edge	-35.64	-13	-22.64
		High	Band Edge	-34.16	-13	-21.16
	70MHz	Low	Band Edge	-30.79	-13	-17.79
		High	Band Edge	-34.13	-13	-21.13
	60MHz	Low	Band Edge	-35.24	-13	-22.24
		High	Band Edge	-36.72	-13	-23.72
	50MHz	Low	Band Edge	-34.89	-13	-21.89
		High	Band Edge	-34.71	-13	-21.71
	40MHz	Low	Band Edge	-35.05	-13	-22.05
		High	Band Edge	-32.75	-13	-19.75
	30MHz	Low	Band Edge	-32.33	-13	-19.33
		High	Band Edge	-27.39	-13	-14.39
	20MHz	Low	Band Edge	-31.18	-13	-18.18
		High	Band Edge	-21.51	-13	-8.51
	15MHz	Low	Band Edge	-28.93	-13	-15.93
		High	Band Edge	-28.44	-13	-15.44
	10MHz	Low	Band Edge	-26.39	-13	-13.39
		High	Band Edge	-25.83	-13	-12.83

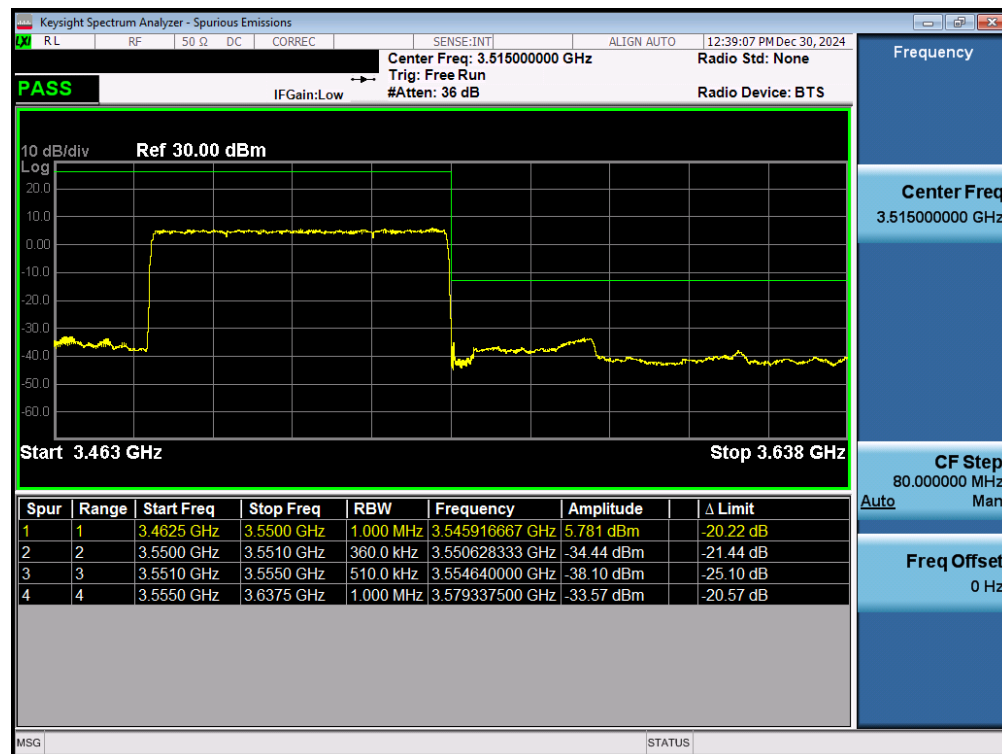
Table 7-27. Conducted Band Edge Test Results– NR Band n77 – Ant 1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 208 of 287

NR Band n77 DoD – Ant1



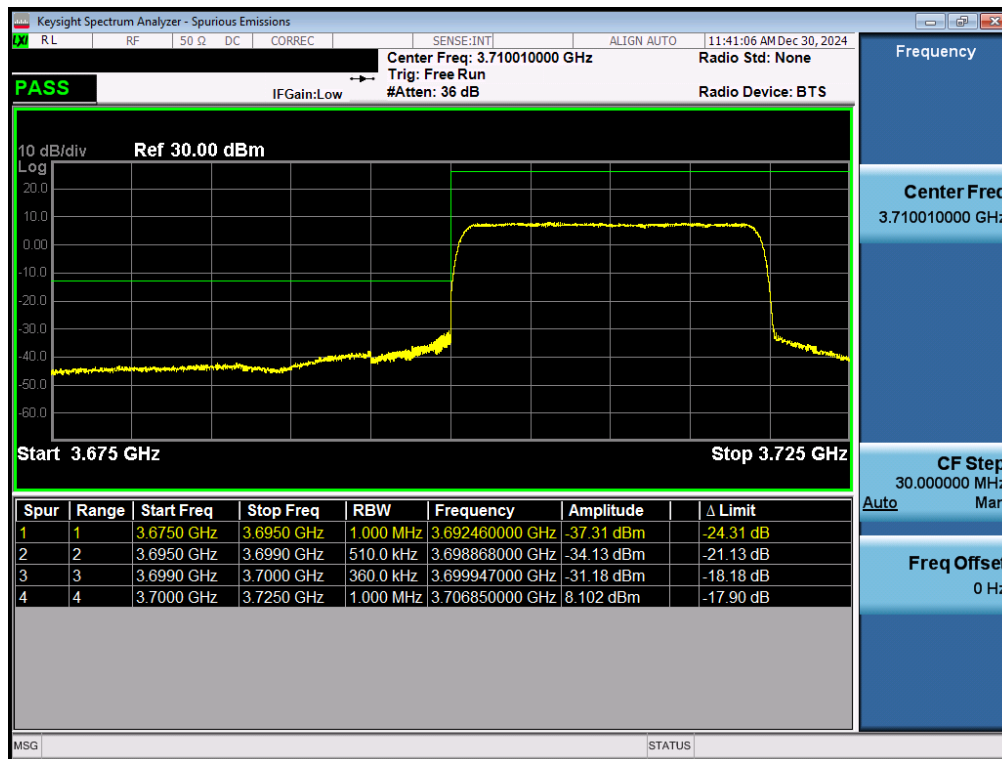
Plot 7-318. Lower ACP Plot (NR Band n77 - 70MHz DFTS-QPSK – Full RB – Ant1)



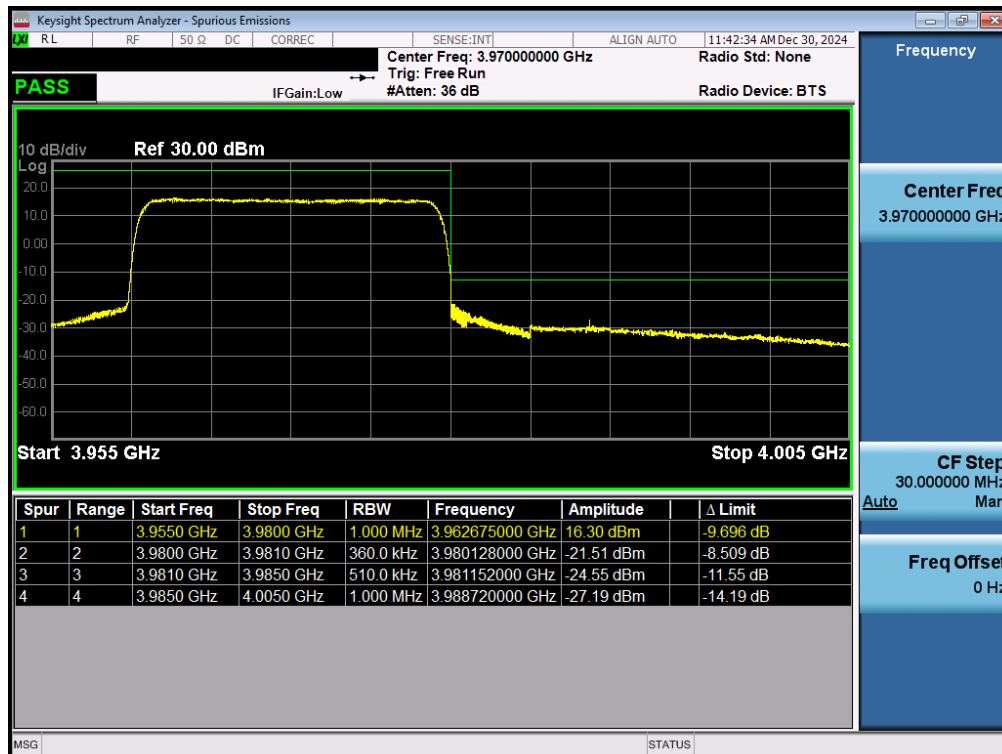
Plot 7-319. Upper ACP Plot (NR Band n77 - 70MHz DFTS-QPSK – Full RB – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 209 of 287

NR Band n77 C-Band – Ant1



Plot 7-320. Lower ACP Plot (NR Band n77 – 20MHz DFTS-QPSK – Full RB – Ant1)



Plot 7-321. Upper ACP Plot (NR Band n77 - 20MHz DFTS-QPSK – Full RB – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 210 of 287

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-32.32	-13	-19.32
		High	Band Edge	-35.17	-13	-22.17
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-31.74	-13	-18.74
		High	Band Edge	-32.17	-13	-19.17

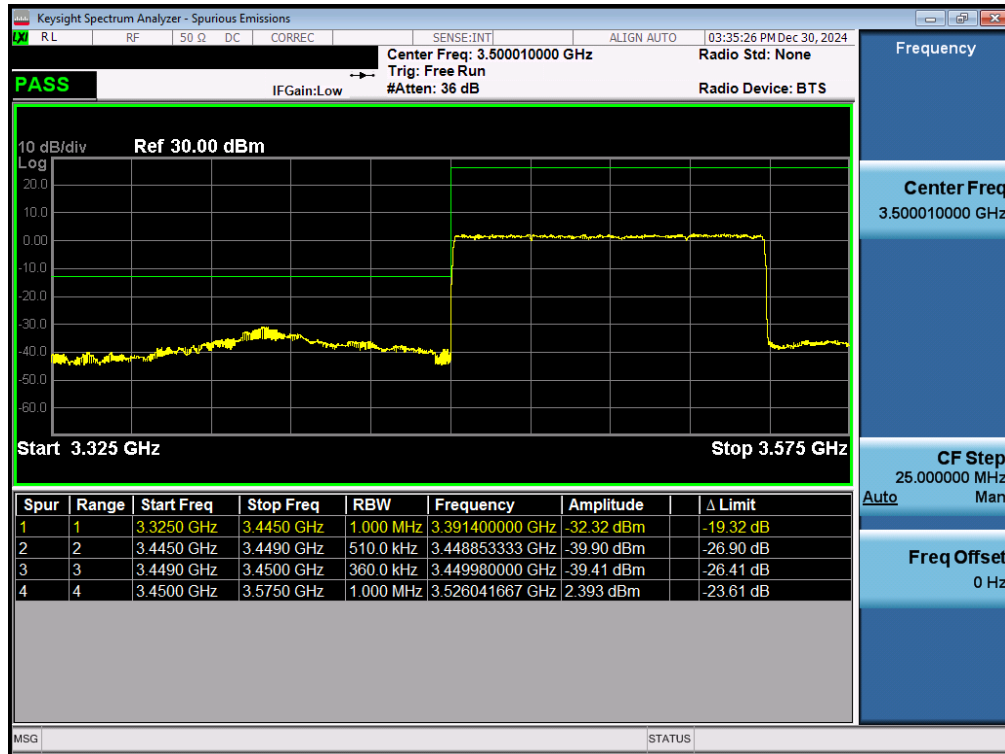
Table 7-28. Conducted Band Edge Test Results– NR Band n77 – SRS Ant 3

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-31.08	-13	-18.08
		High	Band Edge	-32.91	-13	-19.91
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-37.04	-13	-24.04
		High	Band Edge	-34.56	-13	-21.56

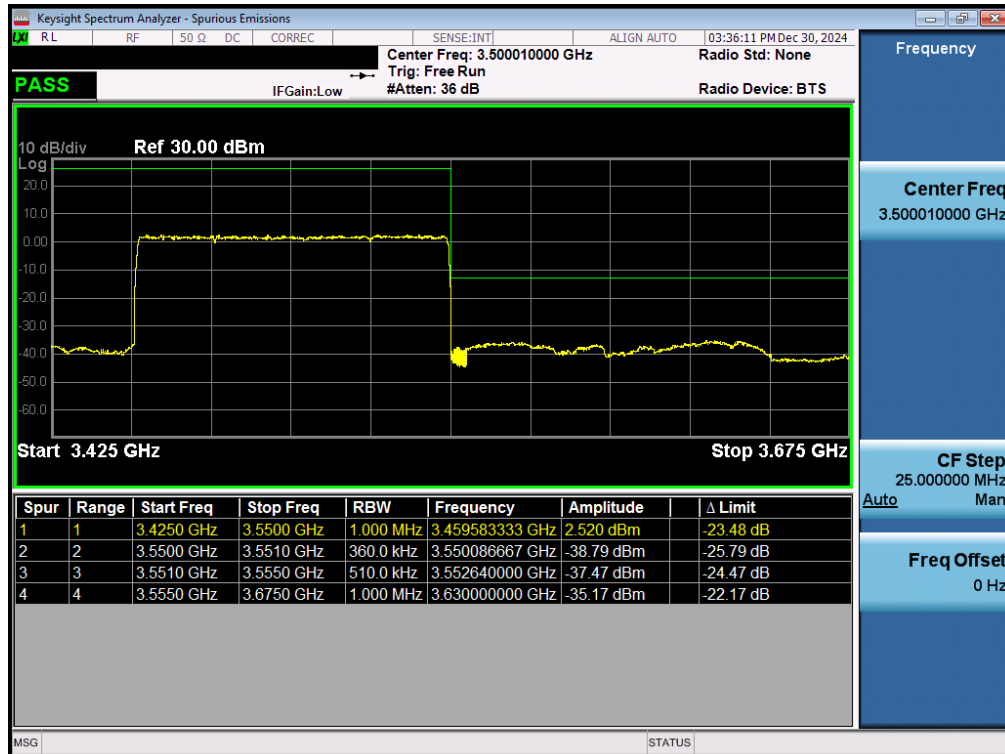
Table 7-29. Conducted Band Edge Test Results– NR Band n77 – SRS Ant 4

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 211 of 287

NR Band n77 DoD – SRS Ant3



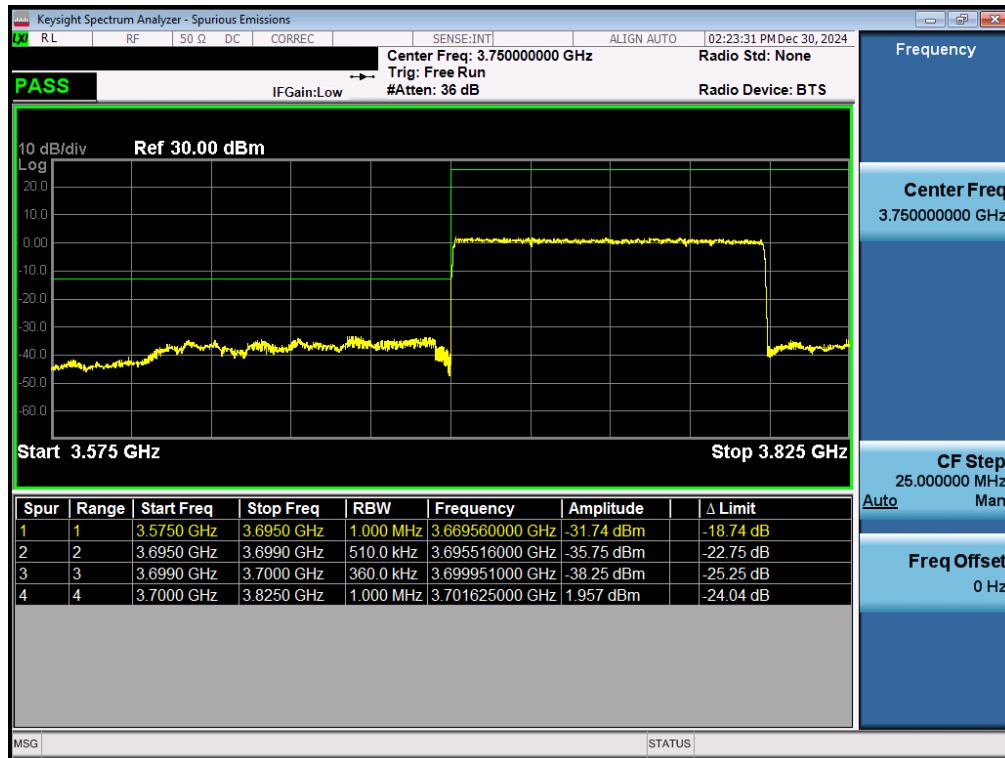
Plot 7-322. Lower ACP Plot (NR Band n77 DoD - 100MHz DFTS-QPSK – Full RB – SRS Ant3)



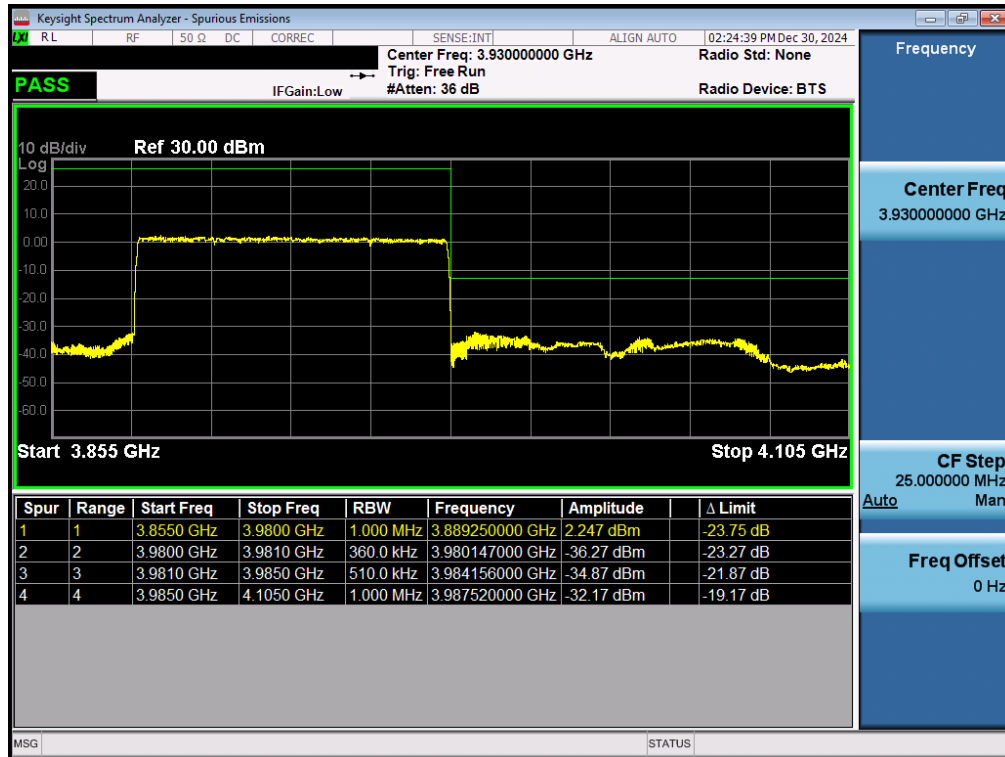
Plot 7-323. Upper ACP Plot (NR Band n77 DoD - 100MHz DFTS-QPSK – Full RB – SRS Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 212 of 287

NR Band n77 C-Band– SRS Ant3



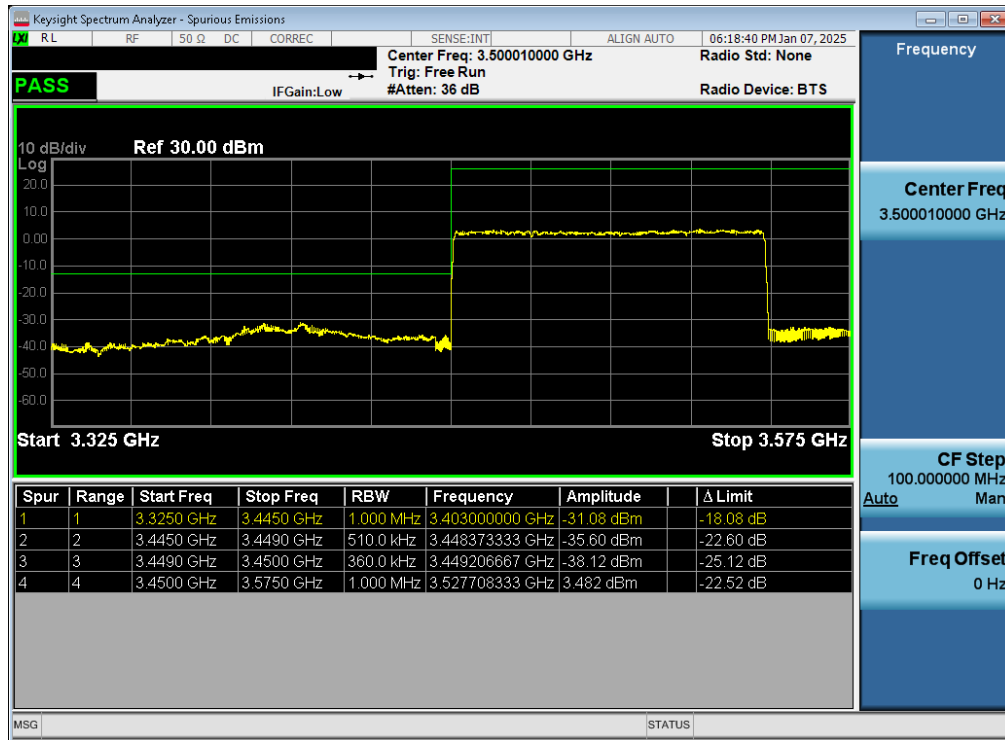
Plot 7-324. Lower ACP Plot (NR Band n77 C-Band - 100MHz DFTS-QPSK – Full RB – SRS Ant3)



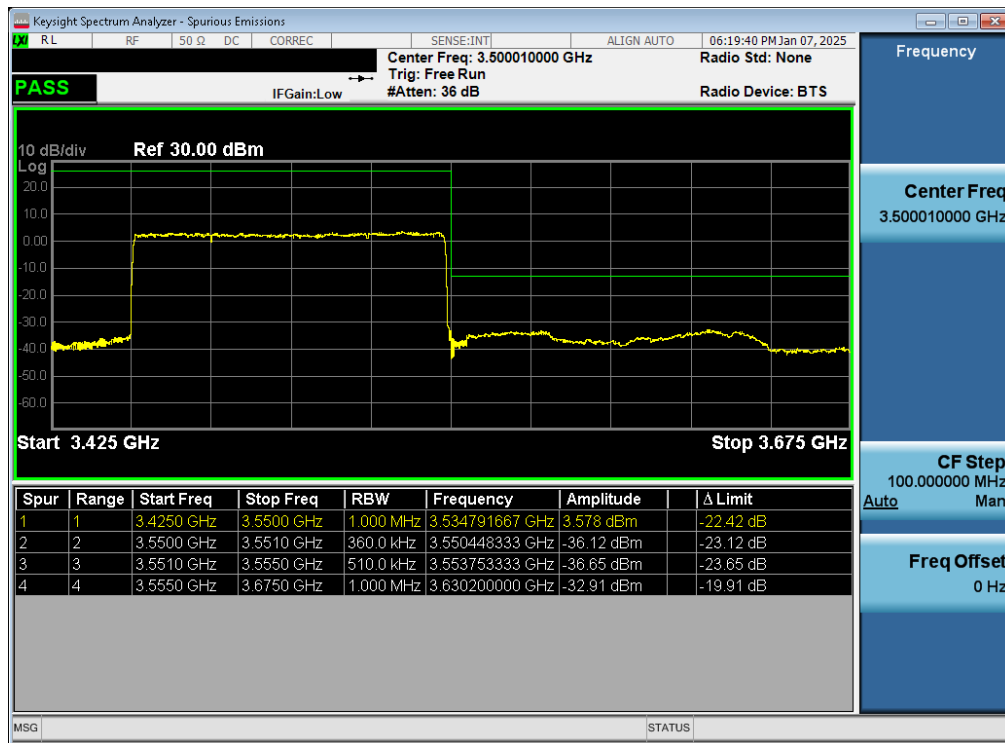
Plot 7-325. Upper ACP Plot (NR Band n77 C-Band - 100MHz DFTS-QPSK – Full RB – SRS Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 213 of 287

NR Band n77 DoD – SRS Ant4



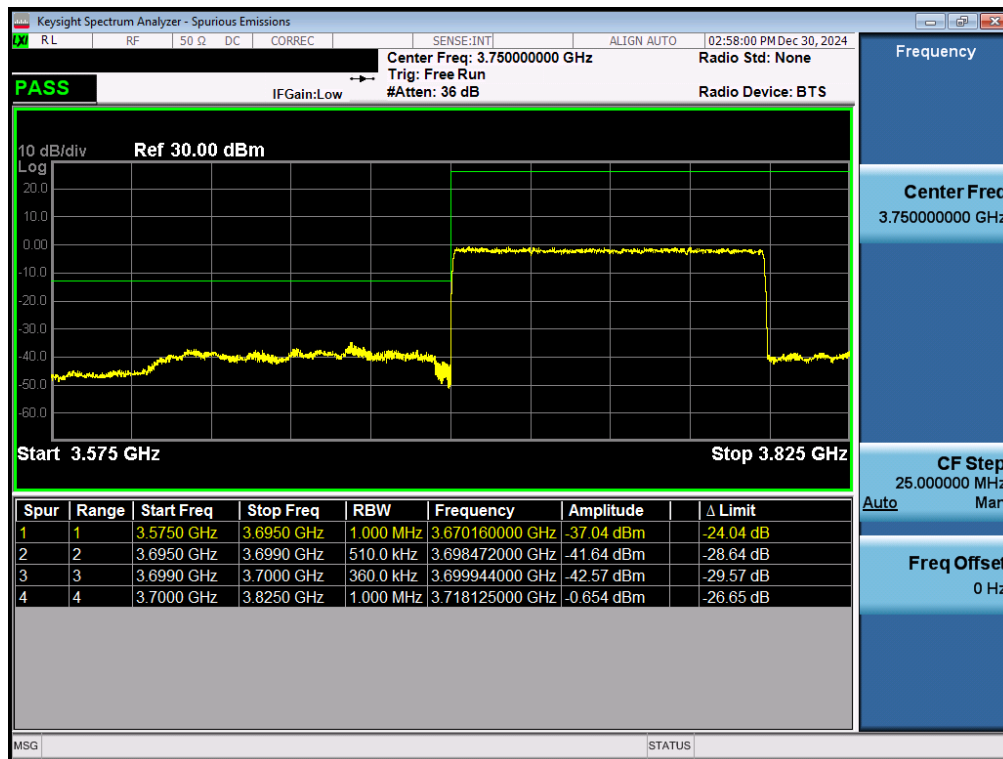
Plot 7-326. Lower ACP Plot (NR Band n77 DoD - 100MHz DFTS-QPSK – Full RB – SRS Ant4)



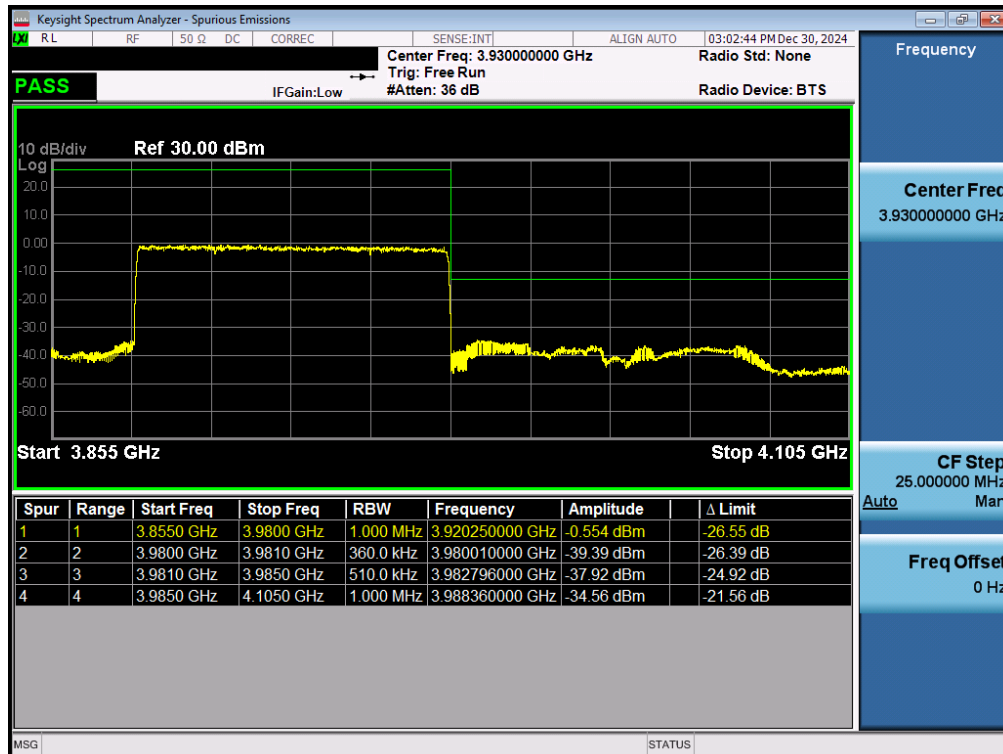
Plot 7-327. Upper ACP Plot (NR Band n77 DoD - 100MHz DFTS-QPSK – Full RB – SRS Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 214 of 287

NR Band n77 C-Band – SRS Ant4



Plot 7-328. Lower ACP Plot (NR Band n77 C-Band - 100MHz DFTS-QPSK – Full RB – SRS Ant4)



Plot 7-329. Upper ACP Plot (NR Band n77 C-Band- 100MHz DFTS-QPSK – Full RB – SRS Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 215 of 287

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-25.86	-13	-12.86
		High	Band Edge	-24.14	-13	-11.14
	90MHz	Low	Band Edge	-25.30	-13	-12.30
		High	Band Edge	-24.75	-13	-11.75
	80MHz	Low	Band Edge	-22.76	-13	-9.76
		High	Band Edge	-23.27	-13	-10.27
	70MHz	Low	Band Edge	-20.83	-13	-7.83
		High	Band Edge	-22.37	-13	-9.37
	60MHz	Low	Band Edge	-21.51	-13	-8.51
		High	Band Edge	-22.54	-13	-9.54
	50MHz	Low	Band Edge	-21.28	-13	-8.28
		High	Band Edge	-21.32	-13	-8.32
	40MHz	Low	Band Edge	-26.27	-13	-13.27
		High	Band Edge	-26.96	-13	-13.96
	30MHz	Low	Band Edge	-19.38	-13	-6.38
		High	Band Edge	-19.56	-13	-6.56
	20MHz	Low	Band Edge	-18.53	-13	-5.53
		High	Band Edge	-18.61	-13	-5.61
	15MHz	Low	Band Edge	-16.27	-13	-3.27
		High	Band Edge	-16.36	-13	-3.36
	10MHz	Low	Band Edge	-14.04	-13	-1.04
		High	Band Edge	-14.05	-13	-1.05
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-25.92	-13	-12.92
		High	Band Edge	-25.21	-13	-12.21
	90MHz	Low	Band Edge	-24.71	-13	-11.71
		High	Band Edge	-24.14	-13	-11.14
	80MHz	Low	Band Edge	-22.88	-13	-9.88
		High	Band Edge	-23.31	-13	-10.31
	70MHz	Low	Band Edge	-20.37	-13	-7.37
		High	Band Edge	-20.97	-13	-7.97
	60MHz	Low	Band Edge	-21.57	-13	-8.57
		High	Band Edge	-22.46	-13	-9.46
	50MHz	Low	Band Edge	-18.30	-13	-5.30
		High	Band Edge	-21.03	-13	-8.03
	40MHz	Low	Band Edge	-24.98	-13	-11.98
		High	Band Edge	-26.79	-13	-13.79
	30MHz	Low	Band Edge	-19.02	-13	-6.02
		High	Band Edge	-20.01	-13	-7.01
	20MHz	Low	Band Edge	-17.01	-13	-4.01
		High	Band Edge	-17.61	-13	-4.61
	15MHz	Low	Band Edge	-17.13	-13	-4.13
		High	Band Edge	-17.38	-13	-4.38
	10MHz	Low	Band Edge	-14.54	-13	-1.54
		High	Band Edge	-14.82	-13	-1.82

Table 7-30. Conducted Band Edge Test Results– NR Band n77 – UL MIMO Ant6

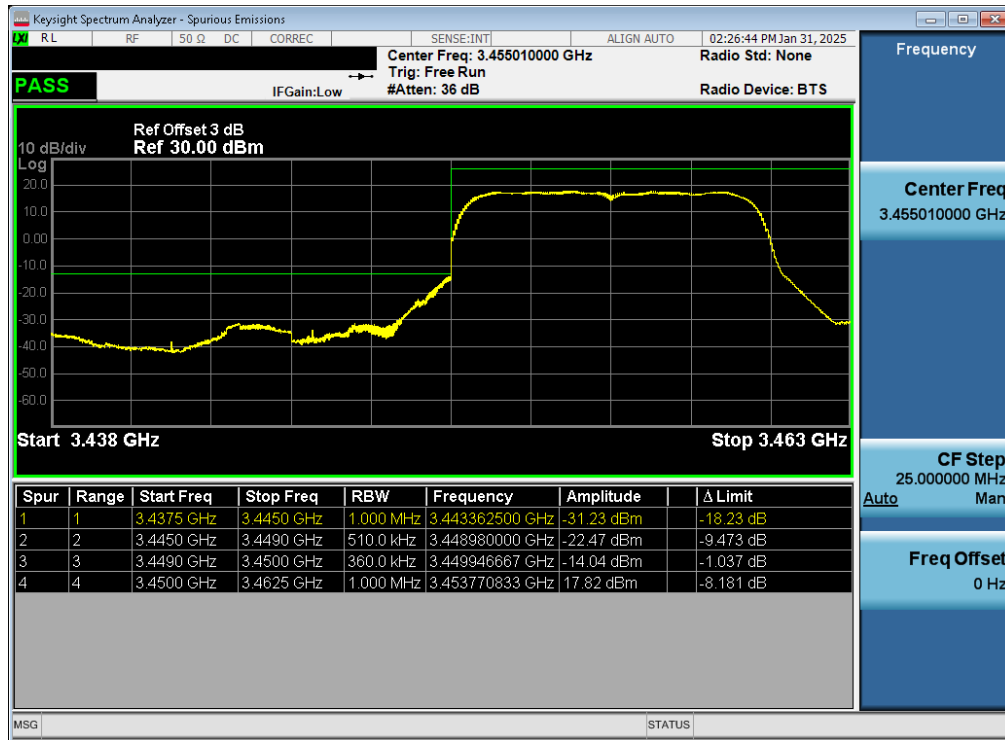
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 216 of 287

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-26.72	-13	-13.72
		High	Band Edge	-26.05	-13	-13.05
	90MHz	Low	Band Edge	-25.61	-13	-12.61
		High	Band Edge	-23.90	-13	-10.90
	80MHz	Low	Band Edge	-23.44	-13	-10.44
		High	Band Edge	-24.04	-13	-11.04
	70MHz	Low	Band Edge	-21.54	-13	-8.54
		High	Band Edge	-23.85	-13	-10.85
	60MHz	Low	Band Edge	-22.32	-13	-9.32
		High	Band Edge	-23.44	-13	-10.44
	50MHz	Low	Band Edge	-20.94	-13	-7.94
		High	Band Edge	-21.97	-13	-8.97
	40MHz	Low	Band Edge	-26.34	-13	-13.34
		High	Band Edge	-28.12	-13	-15.12
	30MHz	Low	Band Edge	-19.28	-13	-6.28
		High	Band Edge	-21.41	-13	-8.41
	20MHz	Low	Band Edge	-17.95	-13	-4.95
		High	Band Edge	-18.85	-13	-5.85
	15MHz	Low	Band Edge	-16.36	-13	-3.36
		High	Band Edge	-17.78	-13	-4.78
	10MHz	Low	Band Edge	-14.62	-13	-1.62
		High	Band Edge	-15.09	-13	-2.09
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-27.57	-13	-14.57
		High	Band Edge	-24.75	-13	-11.75
	90MHz	Low	Band Edge	-25.04	-13	-12.04
		High	Band Edge	-25.35	-13	-12.35
	80MHz	Low	Band Edge	-22.20	-13	-9.20
		High	Band Edge	-23.89	-13	-10.89
	70MHz	Low	Band Edge	-19.97	-13	-6.97
		High	Band Edge	-22.45	-13	-9.45
	60MHz	Low	Band Edge	-21.21	-13	-8.21
		High	Band Edge	-21.37	-13	-8.37
	50MHz	Low	Band Edge	-19.40	-13	-6.40
		High	Band Edge	-21.62	-13	-8.62
	40MHz	Low	Band Edge	-25.37	-13	-12.37
		High	Band Edge	-27.98	-13	-14.98
	30MHz	Low	Band Edge	-19.24	-13	-6.24
		High	Band Edge	-20.20	-13	-7.20
	20MHz	Low	Band Edge	-17.65	-13	-4.65
		High	Band Edge	-16.89	-13	-3.89
	15MHz	Low	Band Edge	-17.21	-13	-4.21
		High	Band Edge	-17.90	-13	-4.90
	10MHz	Low	Band Edge	-14.54	-13	-1.54
		High	Band Edge	-14.74	-13	-1.74

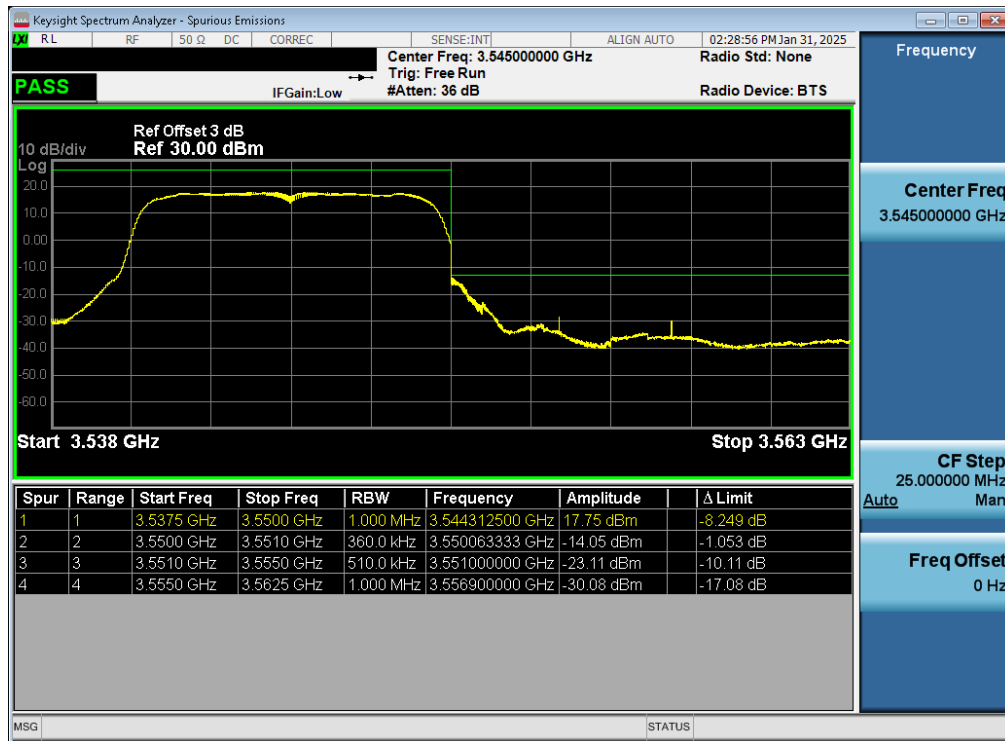
Table 7-31. Conducted Band Edge Test Results– NR Band n77 – UL MIMO Ant1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 217 of 287

NR Band n77 DoD – UL MIMO Ant6



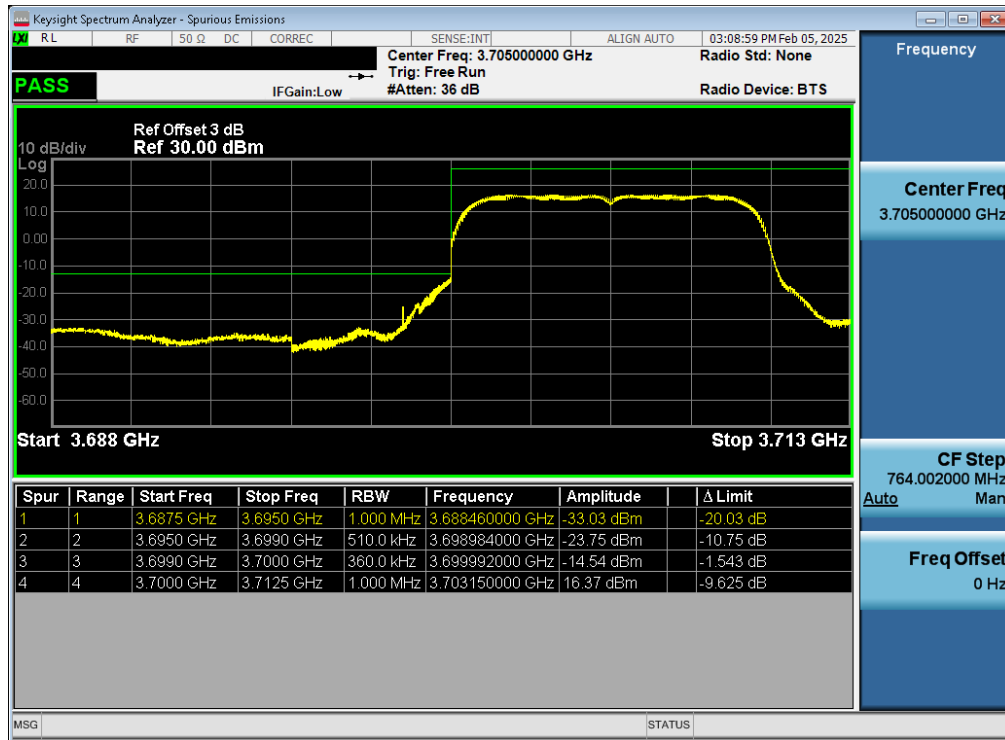
Plot 7-330. Lower ACP Plot (NR Band n77 DoD - 10MHz DFTS-QPSK – Full RB – UL MIMO Ant6)



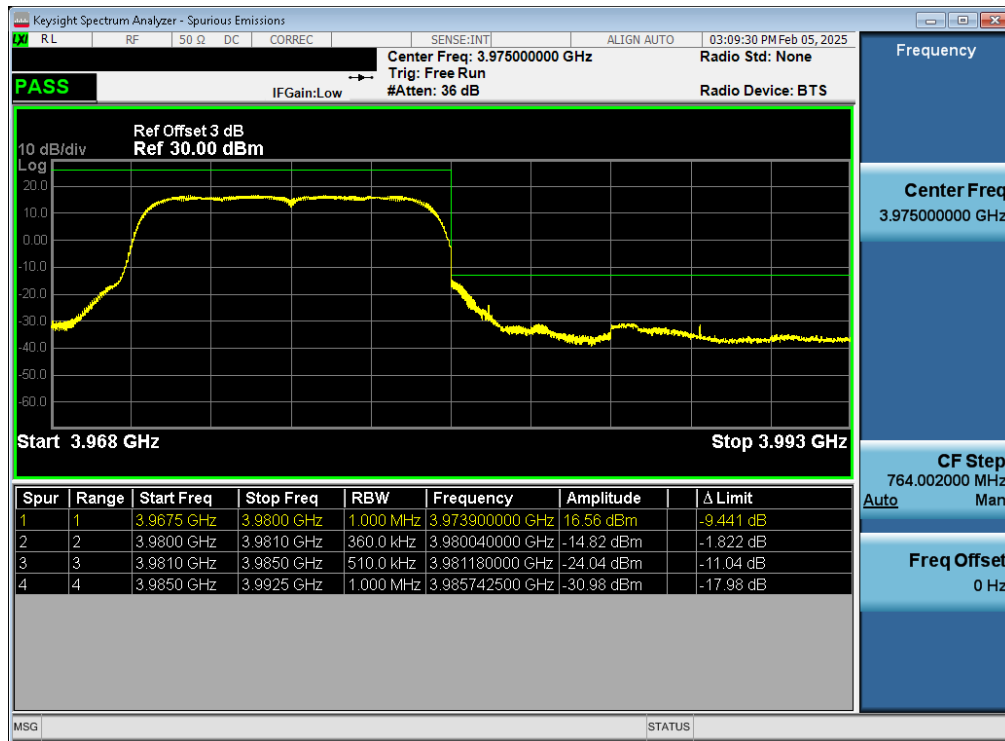
Plot 7-331. Upper ACP Plot (NR Band n77 DoD - 10MHz DFTS-QPSK – Full RB – UL MIMO Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 218 of 287

NR Band n77 C-Band – UL MIMO Ant6



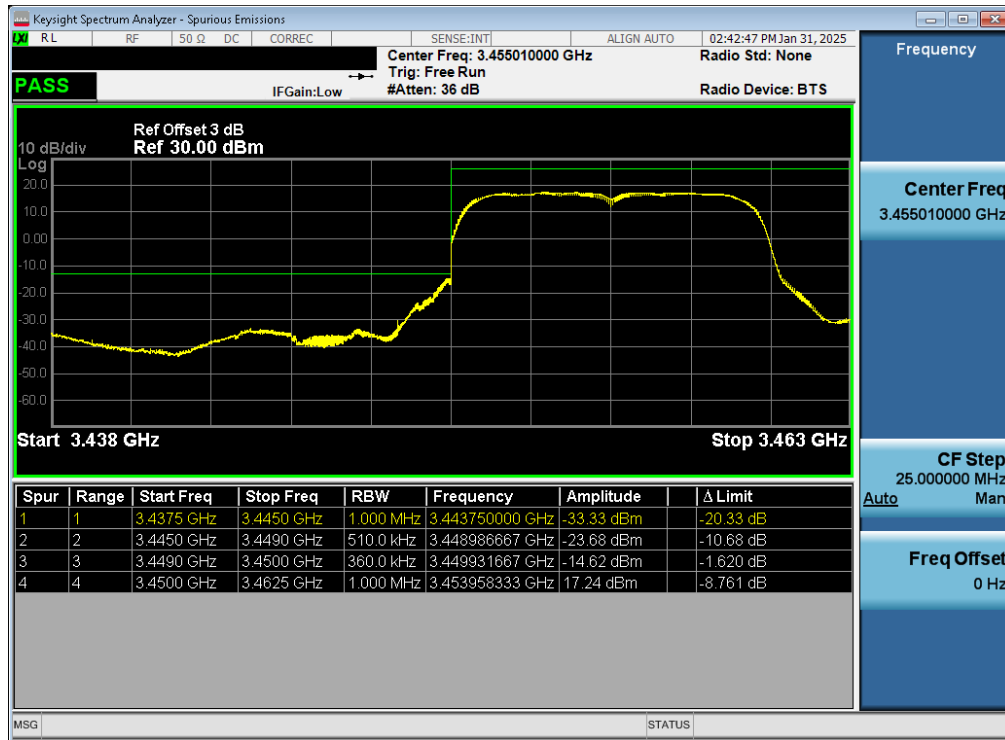
Plot 7-332. Lower ACP Plot (NR Band n77 C-Band - 10MHz DFTS-QPSK – Full RB – UL MIMO Ant6)



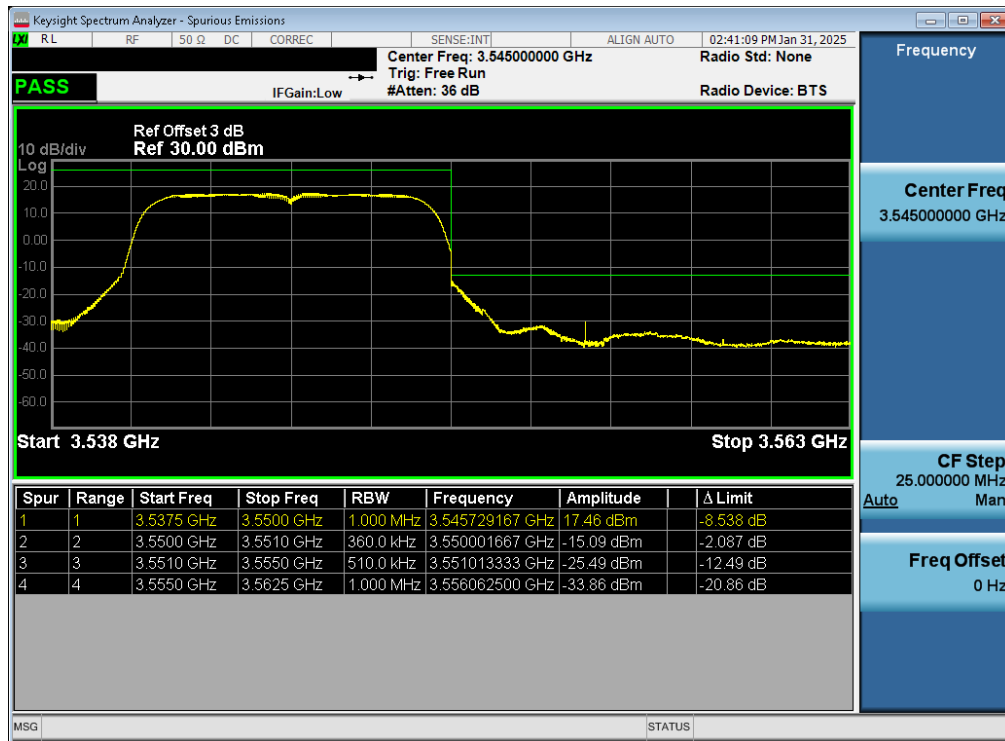
Plot 7-333. Upper ACP Plot (NR Band n77 C-Band- 10MHz DFTS-QPSK – Full RB – UL MIMO Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 219 of 287

NR Band n77 DoD – UL MIMO Ant1



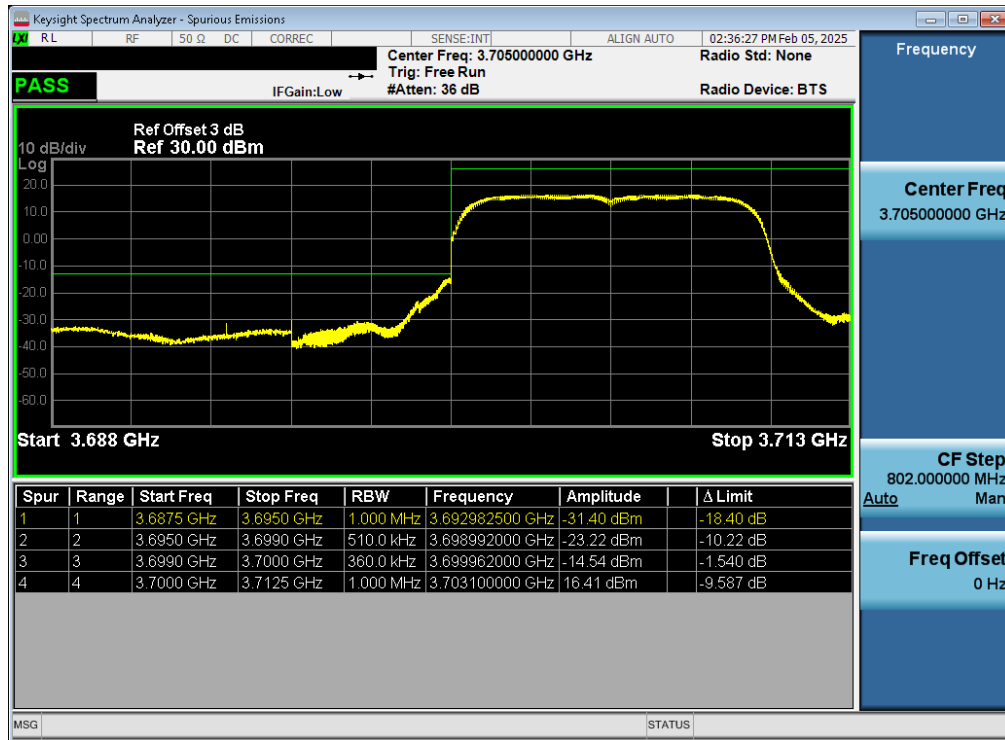
Plot 7-334. Lower ACP Plot (NR Band n77 DoD - 10MHz DFTS-QPSK – Full RB – UL MIMO Ant1)



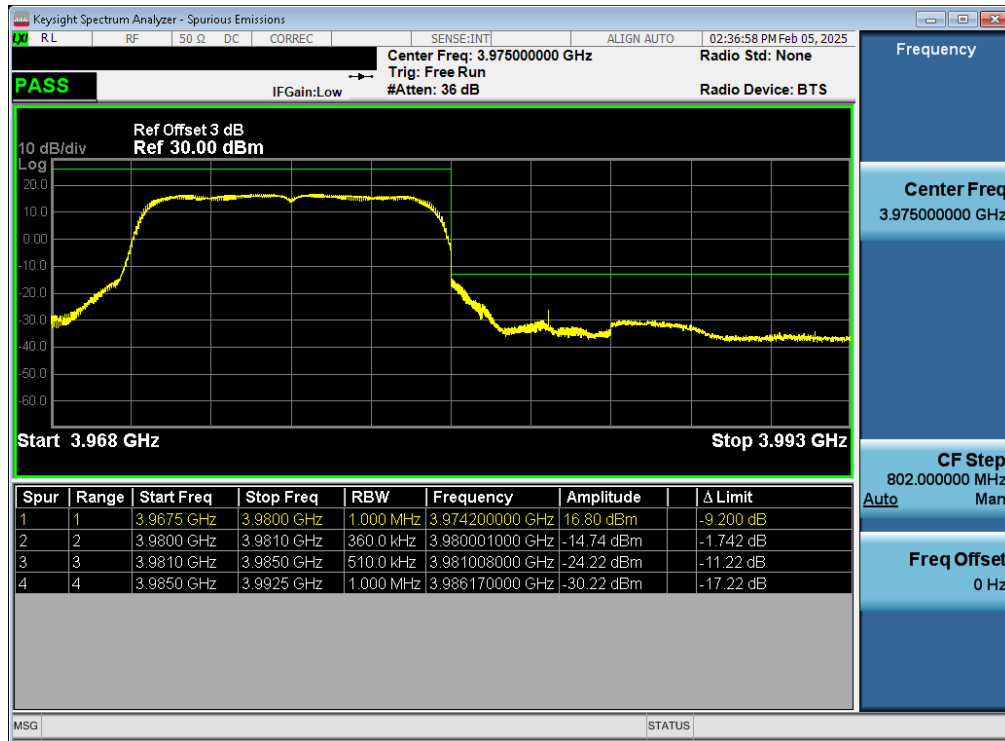
Plot 7-335. Upper ACP Plot (NR Band n77 DoD - 10MHz DFTS-QPSK – Full RB – UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 220 of 287

NR Band n77 C-Band – UL MIMO Ant1



Plot 7-336. Lower ACP Plot (NR Band n77 C-Band - 10MHz DFTS-QPSK – Full RB – UL MIMO Ant1)



Plot 7-337. Upper ACP Plot (NR Band n77 C-Band- 10MHz DFTS-QPSK – Full RB – UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

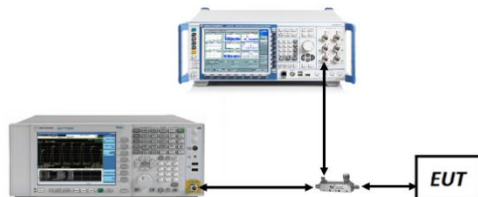


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 222 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2-R1	100MHz	$\pi/2$ BPSK	23.28	4.10	13	-8.90
		QPSK	20.80	6.68	13	-6.32
		256QAM	17.27	8.28	13	-4.72
	90MHz	$\pi/2$ BPSK	25.31	4.19	13	-8.81
		QPSK	22.82	6.68	13	-6.32
		256QAM	19.30	8.47	13	-4.53
	80MHz	$\pi/2$ BPSK	25.30	4.14	13	-8.86
		QPSK	22.77	6.62	13	-6.38
		256QAM	19.22	8.38	13	-4.62
	70MHz	$\pi/2$ BPSK	25.30	4.19	13	-8.81
		QPSK	22.80	6.72	13	-6.28
		256QAM	19.28	8.52	13	-4.48
	60MHz	$\pi/2$ BPSK	25.49	4.11	13	-8.89
		QPSK	22.96	6.58	13	-6.42
		256QAM	19.41	8.58	13	-4.42
	50MHz	$\pi/2$ BPSK	25.41	4.00	13	-9.00
		QPSK	22.96	6.51	13	-6.49
		256QAM	19.44	8.56	13	-4.44
	40MHz	$\pi/2$ BPSK	25.69	3.99	13	-9.01
		QPSK	23.07	6.56	13	-6.44
		256QAM	19.61	8.54	13	-4.46
	30MHz	$\pi/2$ BPSK	25.65	3.98	13	-9.02
		QPSK	23.09	6.63	13	-6.37
		256QAM	19.54	8.48	13	-4.52
	20MHz	$\pi/2$ BPSK	25.67	4.03	13	-8.97
		QPSK	23.11	6.56	13	-6.44
		256QAM	19.62	8.29	13	-4.71
	15MHz	$\pi/2$ BPSK	25.67	4.05	13	-8.95
		QPSK	23.10	6.62	13	-6.38
		256QAM	19.65	8.56	13	-4.44
	10MHz	$\pi/2$ BPSK	25.49	4.03	13	-8.97
		QPSK	22.93	6.55	13	-6.45
		256QAM	19.39	8.82	13	-4.18

Table 7-32. Peak Average Ratio Test Results – NR Band n77 DoD – Ant6

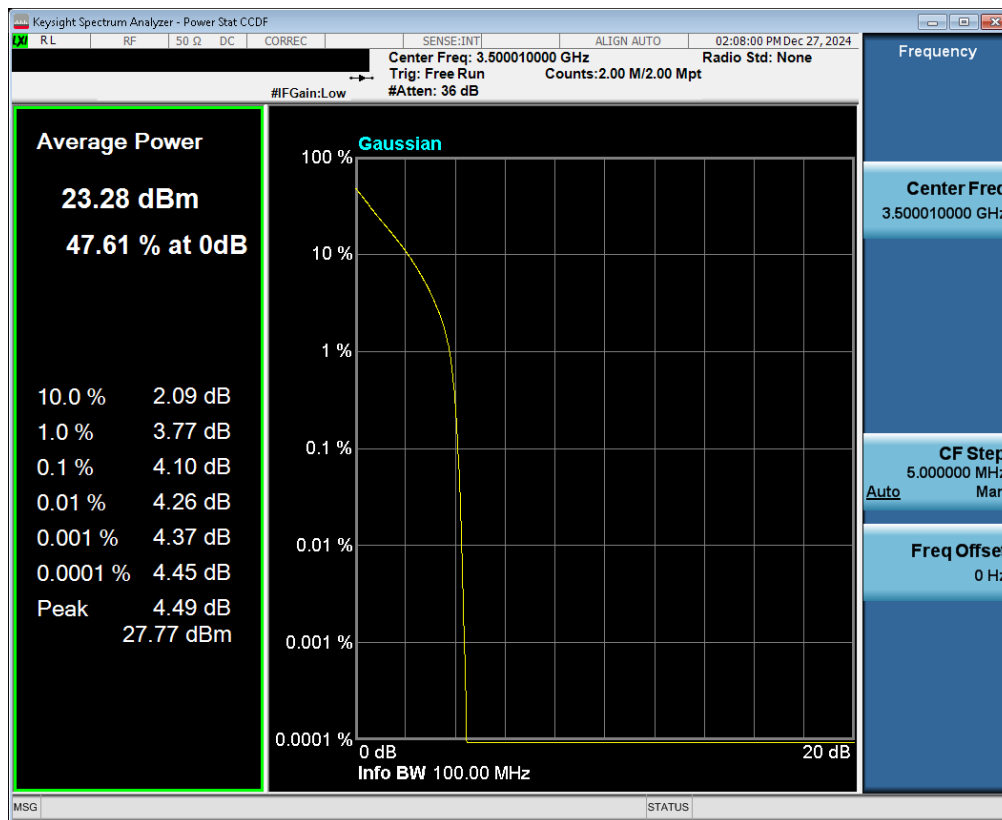
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 223 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2	100MHz	$\pi/2$ BPSK	22.69	4.18	13	-8.82
		QPSK	20.23	6.69	13	-6.31
		256QAM	16.72	8.40	13	-4.60
	90MHz	$\pi/2$ BPSK	24.66	4.23	13	-8.77
		QPSK	22.16	6.65	13	-6.35
		256QAM	18.66	8.53	13	-4.47
	80MHz	$\pi/2$ BPSK	24.69	4.13	13	-8.87
		QPSK	22.17	6.61	13	-6.39
		256QAM	18.61	8.48	13	-4.52
	70MHz	$\pi/2$ BPSK	24.68	4.22	13	-8.78
		QPSK	22.19	6.73	13	-6.27
		256QAM	18.68	8.63	13	-4.37
	60MHz	$\pi/2$ BPSK	24.89	4.13	13	-8.87
		QPSK	22.37	6.58	13	-6.42
		256QAM	18.81	8.56	13	-4.44
	50MHz	$\pi/2$ BPSK	24.92	3.97	13	-9.03
		QPSK	22.34	6.51	13	-6.49
		256QAM	18.85	8.58	13	-4.42
	40MHz	$\pi/2$ BPSK	25.12	4.00	13	-9.00
		QPSK	22.62	6.53	13	-6.47
		256QAM	19.07	8.40	13	-4.60
	30MHz	$\pi/2$ BPSK	25.11	4.00	13	-9.00
		QPSK	22.57	6.69	13	-6.31
		256QAM	19.06	8.24	13	-4.76
	20MHz	$\pi/2$ BPSK	25.12	4.06	13	-8.94
		QPSK	22.64	6.55	13	-6.45
		256QAM	19.07	8.32	13	-4.68
	15MHz	$\pi/2$ BPSK	25.12	4.04	13	-8.96
		QPSK	22.61	6.67	13	-6.33
		256QAM	19.11	8.52	13	-4.48
	10MHz	$\pi/2$ BPSK	25.01	4.02	13	-8.98
		QPSK	22.50	6.52	13	-6.48
		256QAM	18.91	8.71	13	-4.29

Table 7-33. Peak Average Ratio Test Results – NR Band n77 C-Band – Ant6

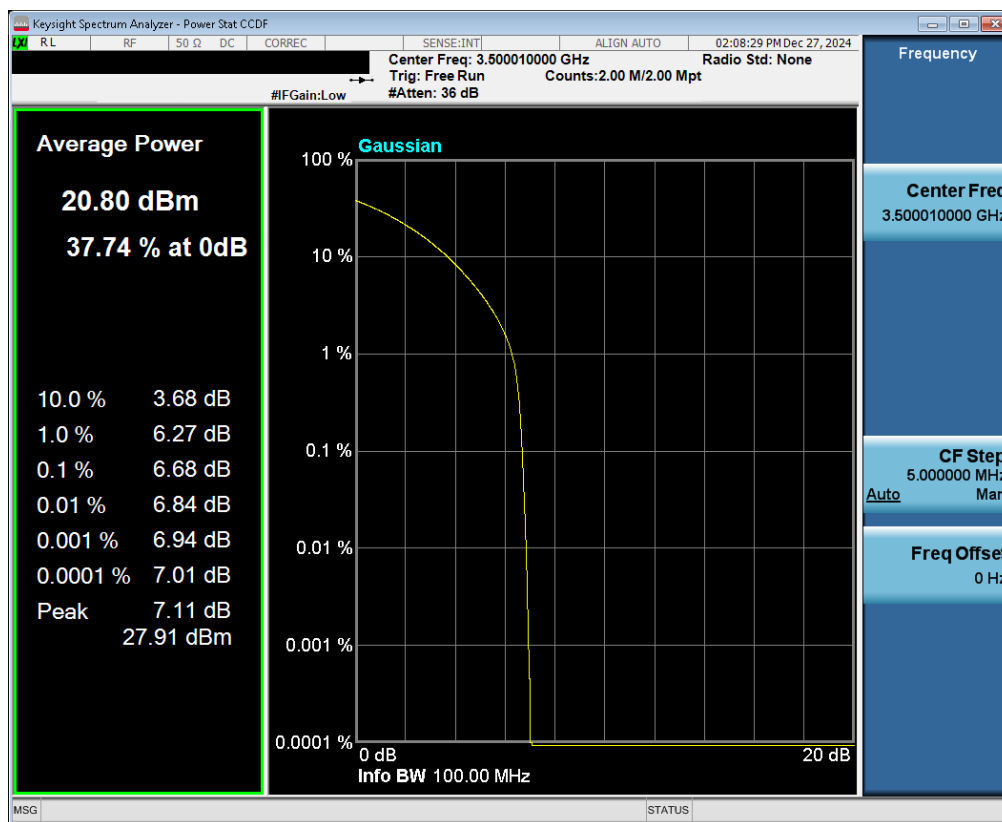
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 224 of 287

NR Band n77 DoD – Ant6



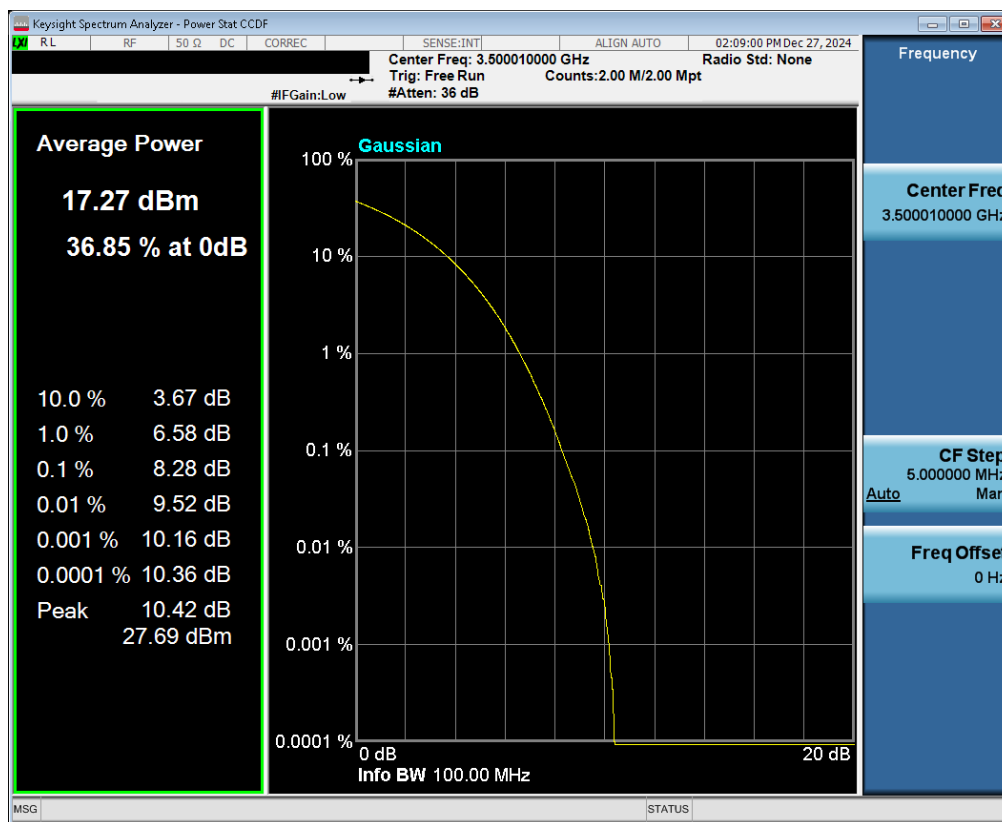
Plot 7-338. PAR Plot (NR Band n77 DoD - 100MHz DFT-s-OFDM BPSK - Full RB - Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 225 of 287



Plot 7-339. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM QPSK - Full RB - Ant6)

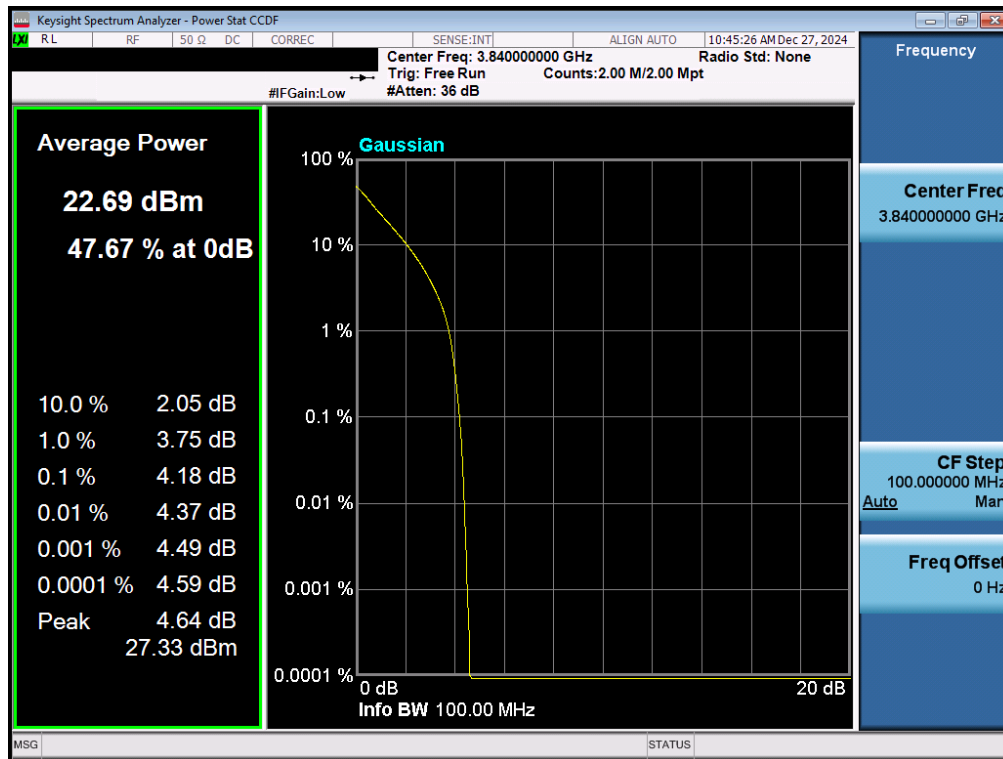
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 226 of 287



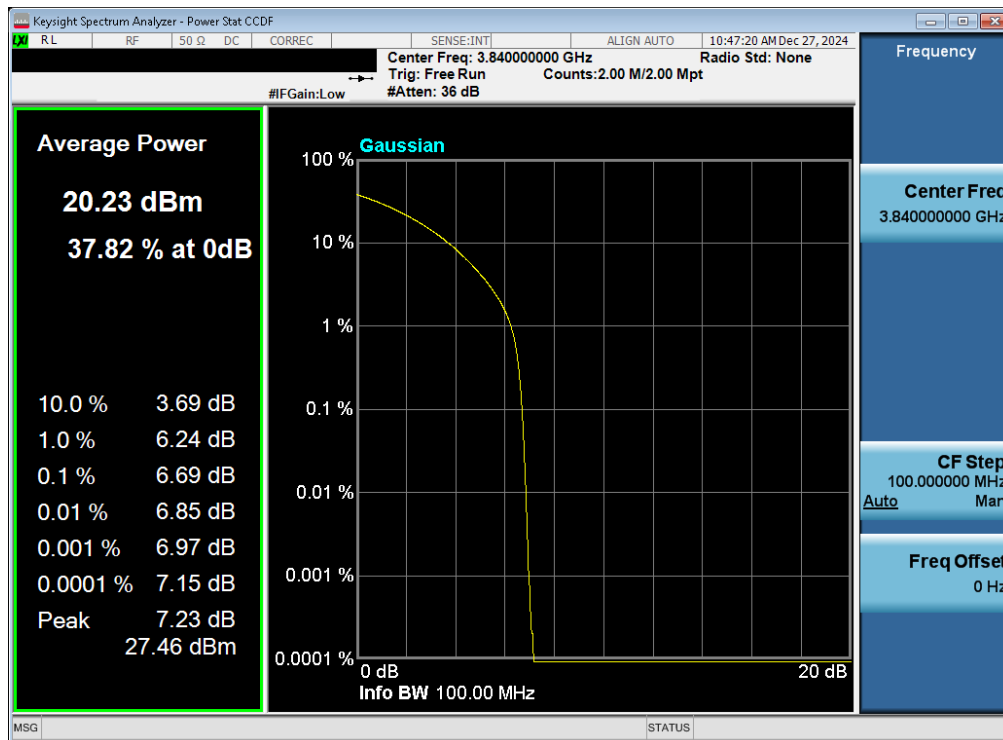
Plot 7-340. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM 256-QAM - Full RB - Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 227 of 287

NR Band n77 C-Band – Ant6

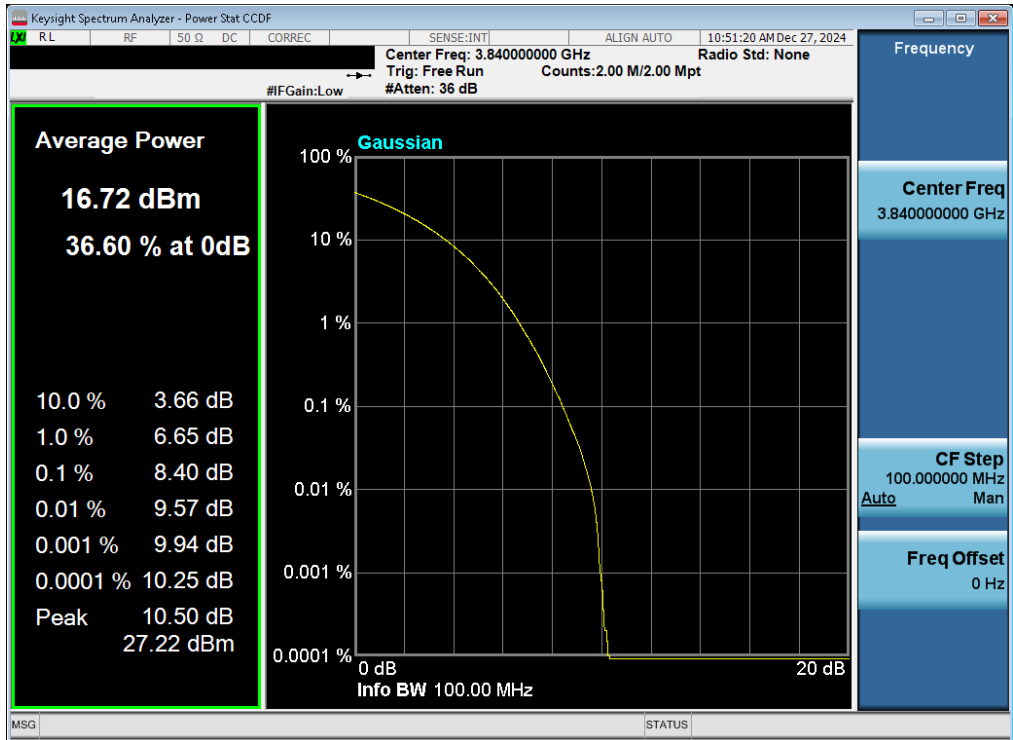


Plot 7-341. PAR Plot (NR Band n77 C-Band - 100MHz DFT-s-OFDM BPSK - Full RB - Ant6)



Plot 7-342. PAR Plot (NR Band n77 C-Band - 100MHz CP-OFDM QPSK - Full RB - Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 228 of 287



Plot 7-343. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM 256-QAM - Full RB - Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 229 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2-R1	100MHz	$\pi/2$ BPSK	22.96	4.08	13	-8.92
		QPSK	20.46	6.71	13	-6.29
		256QAM	16.95	8.40	13	-4.60
	90MHz	$\pi/2$ BPSK	25.04	4.16	13	-8.84
		QPSK	22.49	6.62	13	-6.38
		256QAM	18.91	8.45	13	-4.55
	80MHz	$\pi/2$ BPSK	25.02	4.17	13	-8.83
		QPSK	22.53	6.61	13	-6.39
		256QAM	18.98	8.53	13	-4.47
	70MHz	$\pi/2$ BPSK	24.99	4.18	13	-8.82
		QPSK	22.48	6.77	13	-6.23
		256QAM	18.94	8.63	13	-4.37
	60MHz	$\pi/2$ BPSK	25.16	4.08	13	-8.92
		QPSK	22.66	6.57	13	-6.43
		256QAM	19.11	8.57	13	-4.43
	50MHz	$\pi/2$ BPSK	25.14	3.98	13	-9.02
		QPSK	22.64	6.49	13	-6.51
		256QAM	19.14	8.45	13	-4.55
	40MHz	$\pi/2$ BPSK	25.35	3.99	13	-9.01
		QPSK	22.73	6.58	13	-6.42
		256QAM	19.28	8.46	13	-4.54
	30MHz	$\pi/2$ BPSK	25.34	3.99	13	-9.01
		QPSK	22.81	6.65	13	-6.35
		256QAM	19.24	8.42	13	-4.58
	20MHz	$\pi/2$ BPSK	25.34	4.09	13	-8.91
		QPSK	22.83	6.55	13	-6.45
		256QAM	19.31	8.79	13	-4.21
	15MHz	$\pi/2$ BPSK	25.35	4.04	13	-8.96
		QPSK	22.74	6.66	13	-6.34
		256QAM	19.34	8.48	13	-4.52
	10MHz	$\pi/2$ BPSK	25.18	4.00	13	-9.00
		QPSK	22.65	6.52	13	-6.48
		256QAM	19.09	8.48	13	-4.52

Table 7-34. Peak Average Ratio Test Results – NR Band n77 DoD – Ant1

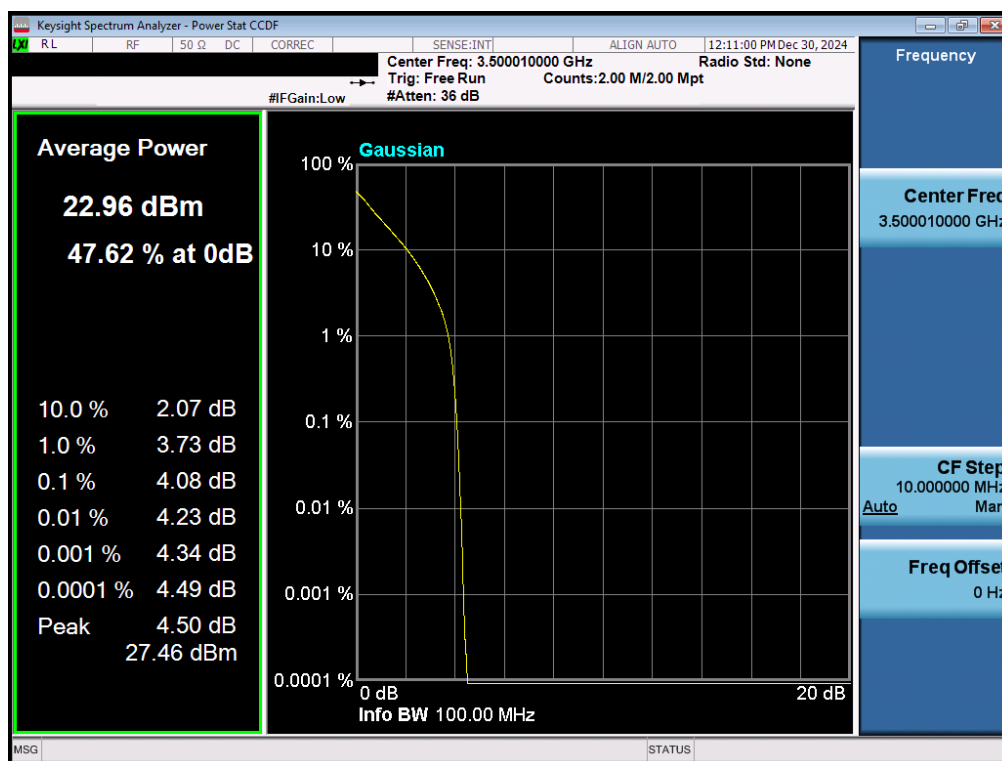
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 230 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2	100MHz	$\pi/2$ BPSK	22.71	4.20	13	-8.80
		QPSK	20.18	6.71	13	-6.29
		256QAM	16.66	8.36	13	-4.64
	90MHz	$\pi/2$ BPSK	24.59	4.26	13	-8.74
		QPSK	22.11	6.64	13	-6.36
		256QAM	18.61	8.46	13	-4.54
	80MHz	$\pi/2$ BPSK	24.58	4.18	13	-8.82
		QPSK	22.10	6.63	13	-6.37
		256QAM	18.66	8.48	13	-4.53
	70MHz	$\pi/2$ BPSK	24.71	4.25	13	-8.75
		QPSK	22.14	6.74	13	-6.26
		256QAM	18.68	8.66	13	-4.34
	60MHz	$\pi/2$ BPSK	24.79	4.13	13	-8.87
		QPSK	22.27	6.54	13	-6.46
		256QAM	18.69	8.57	13	-4.43
	50MHz	$\pi/2$ BPSK	24.77	3.96	13	-9.04
		QPSK	22.27	6.46	13	-6.54
		256QAM	18.71	8.41	13	-4.59
	40MHz	$\pi/2$ BPSK	24.96	4.01	13	-8.99
		QPSK	22.44	6.52	13	-6.48
		256QAM	18.85	8.56	13	-4.44
	30MHz	$\pi/2$ BPSK	24.96	4.00	13	-9.00
		QPSK	22.39	6.65	13	-6.35
		256QAM	18.83	8.50	13	-4.50
	20MHz	$\pi/2$ BPSK	24.90	4.07	13	-8.93
		QPSK	22.39	6.52	13	-6.48
		256QAM	18.88	8.77	13	-4.23
	15MHz	$\pi/2$ BPSK	24.90	4.06	13	-8.94
		QPSK	22.42	6.63	13	-6.37
		256QAM	18.91	8.35	13	-4.65
	10MHz	$\pi/2$ BPSK	24.83	4.03	13	-8.97
		QPSK	22.27	6.57	13	-6.43
		256QAM	18.75	8.51	13	-4.49

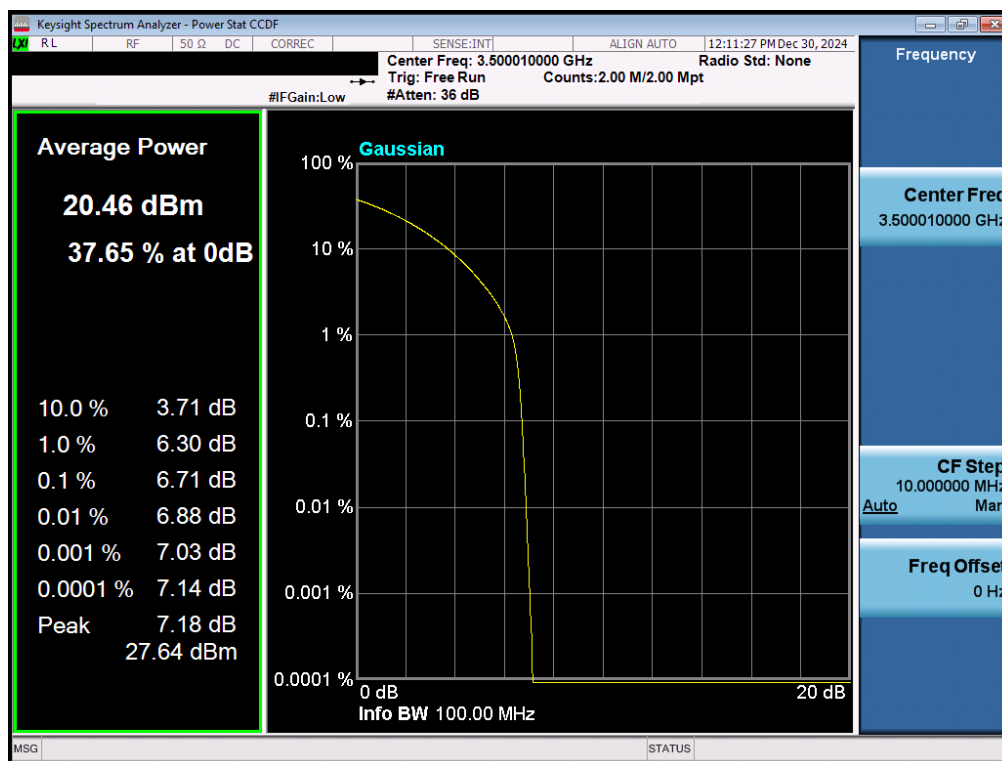
Table 7-35. Peak Average Ratio Test Results – NR Band n77 C-Band – Ant1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 231 of 287

NR Band n77 DoD – Ant1

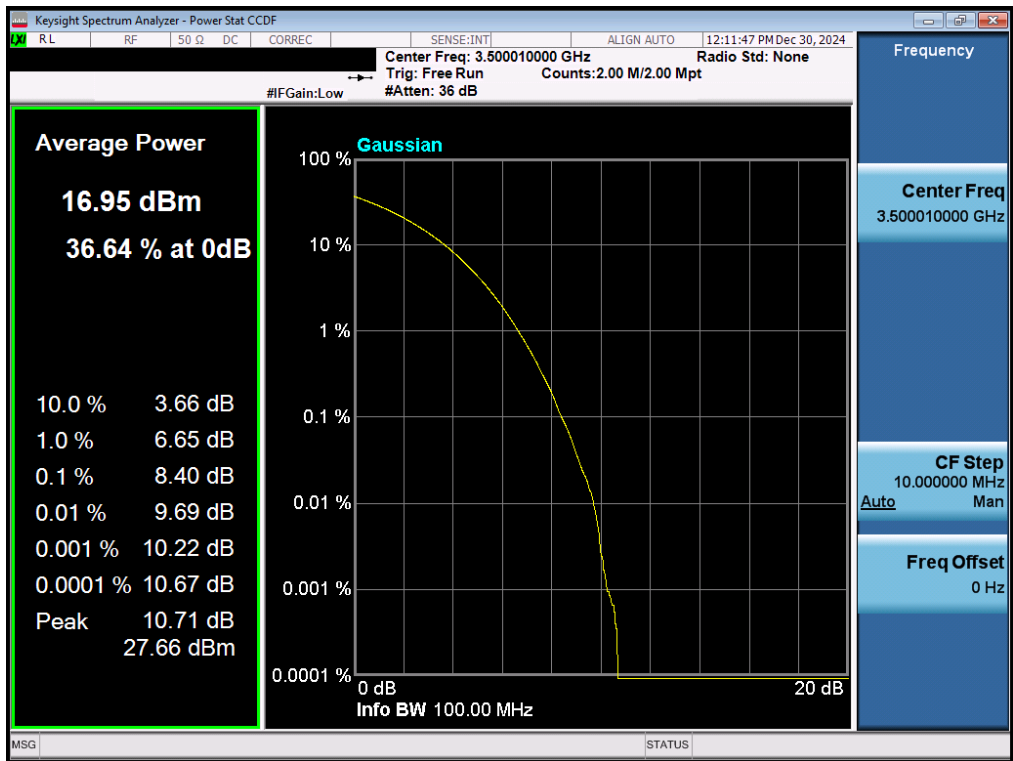


Plot 7-344. PAR Plot (NR Band n77 DoD - 100MHz DFT-s-OFDM BPSK - Full RB – Ant1)



Plot 7-345. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM QPSK - Full RB – Ant1)

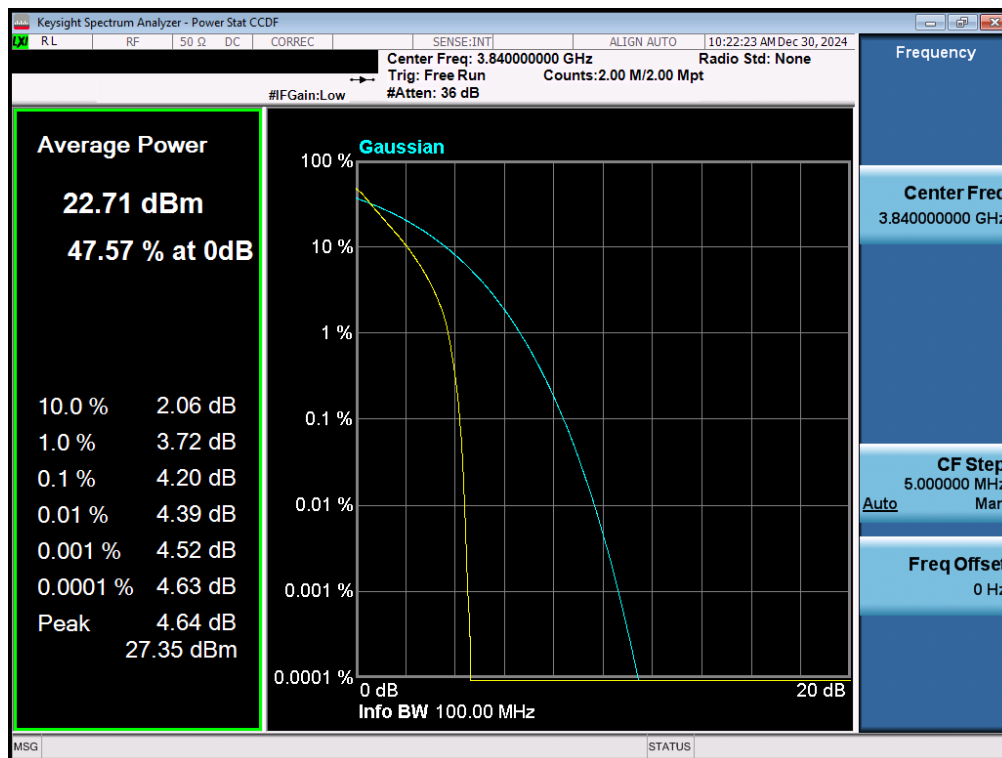
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 232 of 287



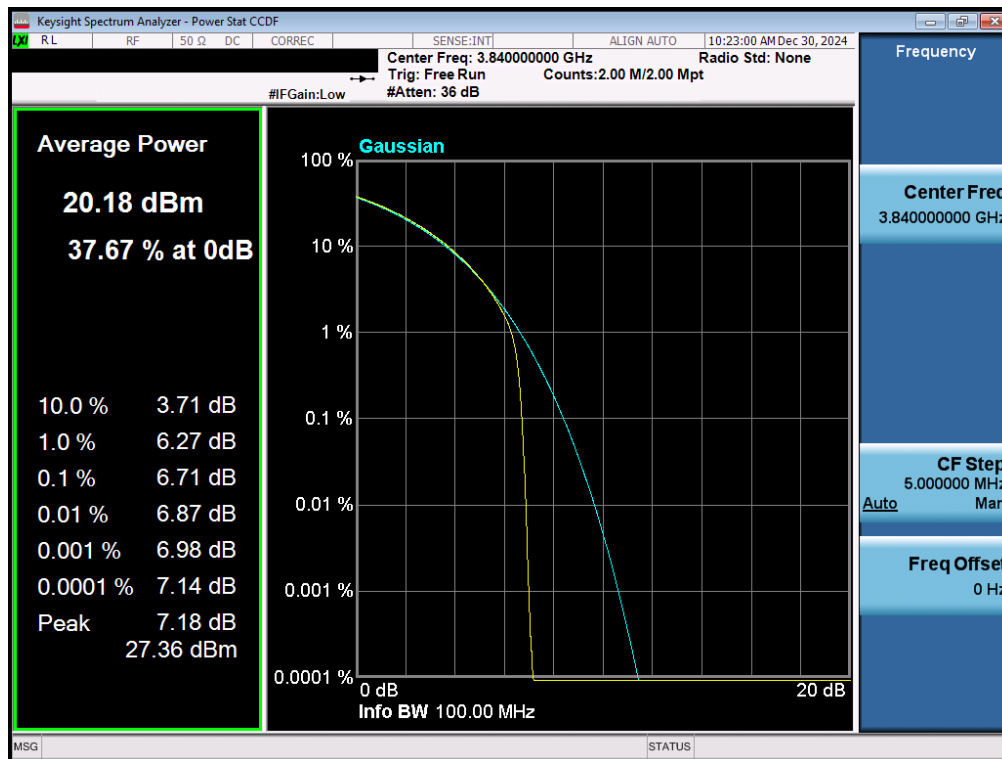
Plot 7-346. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM 256-QAM - Full RB – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 233 of 287

NR Band n77 C-Band – Ant1

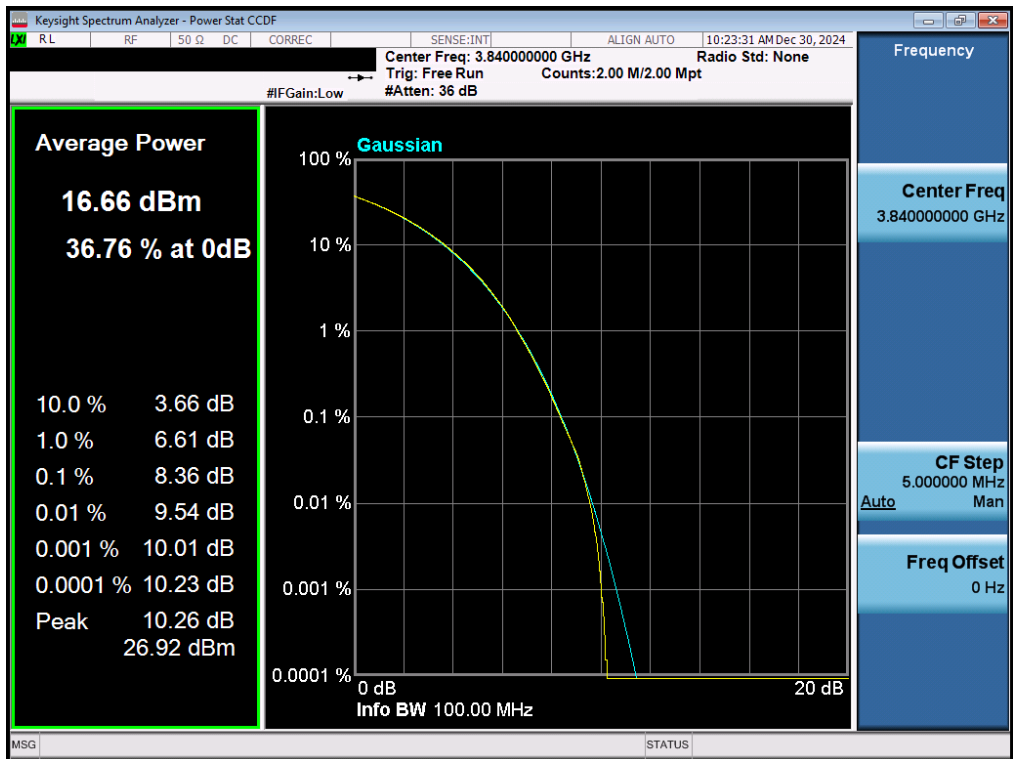


Plot 7-347. PAR Plot (NR Band n77 C-Band - 100MHz DFT-s-OFDM BPSK - Full RB – Ant1)



Plot 7-348. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM QPSK - Full RB – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 234 of 287



Plot 7-349. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM 256-QAM - Full RB – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 235 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2-R1	100MHz	$\pi/2$ BPSK	23.66	4.12	13	-8.88
		QPSK	21.09	6.65	13	-6.35
		256QAM	17.61	8.38	13	-4.62
NR-n77PC2	100MHz	$\pi/2$ BPSK	23.02	4.16	13	-8.84
		QPSK	20.53	6.71	13	-6.29
		256QAM	16.97	8.39	13	-4.61

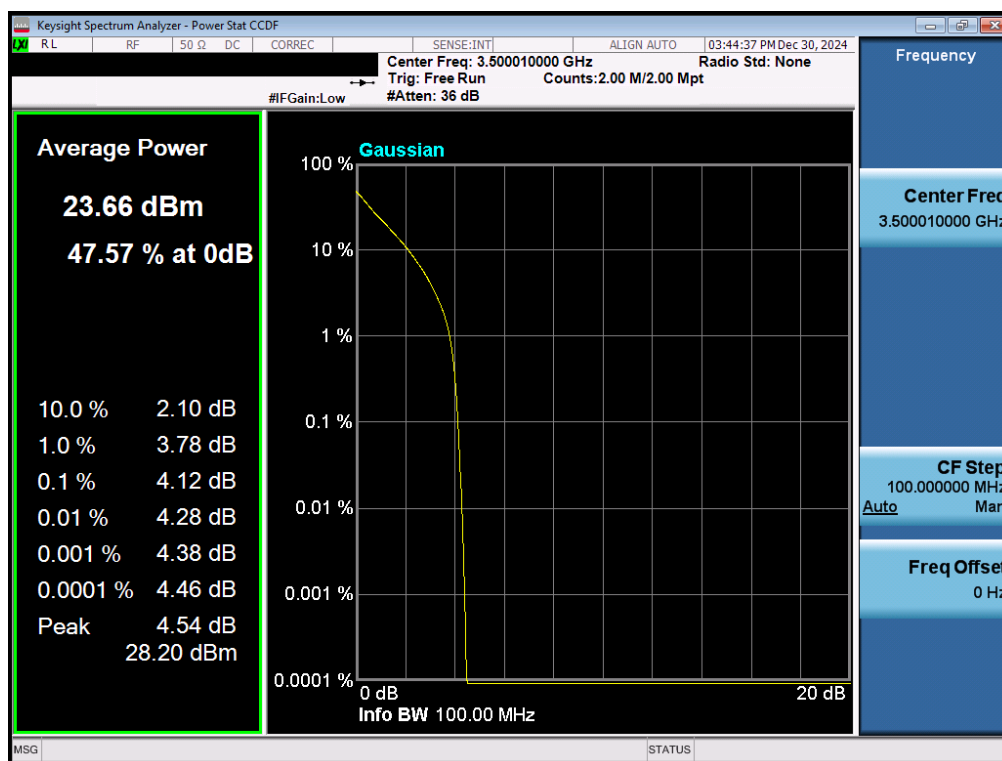
Table 7-36. Peak Average Ratio Test Results – NR Band n77 – SRS Ant3

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2-R1	100MHz	$\pi/2$ BPSK	24.40	4.11	13	-8.89
		QPSK	21.92	6.68	13	-6.32
		256QAM	18.41	8.51	13	-4.49
NR-n77PC2	100MHz	$\pi/2$ BPSK	20.41	4.25	13	-8.75
		QPSK	17.87	6.69	13	-6.31
		256QAM	14.44	8.39	13	-4.61

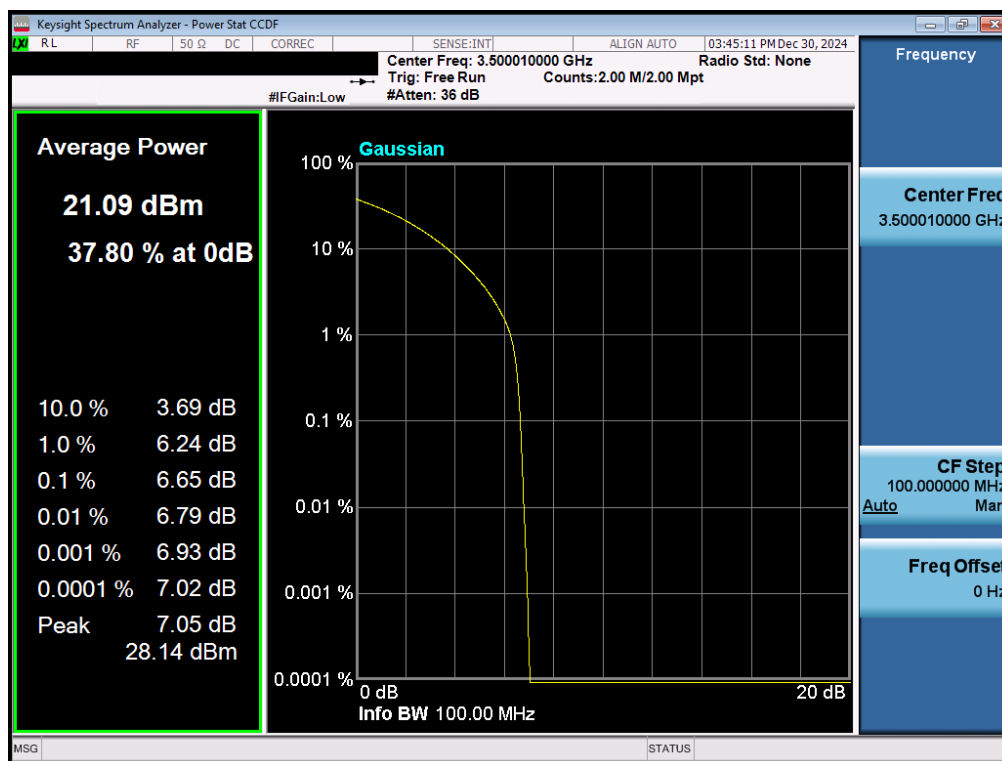
Table 7-37. Peak Average Ratio Test Results – NR Band n77 – SRS Ant4

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 236 of 287

NR Band n77 DoD – SRS Ant3

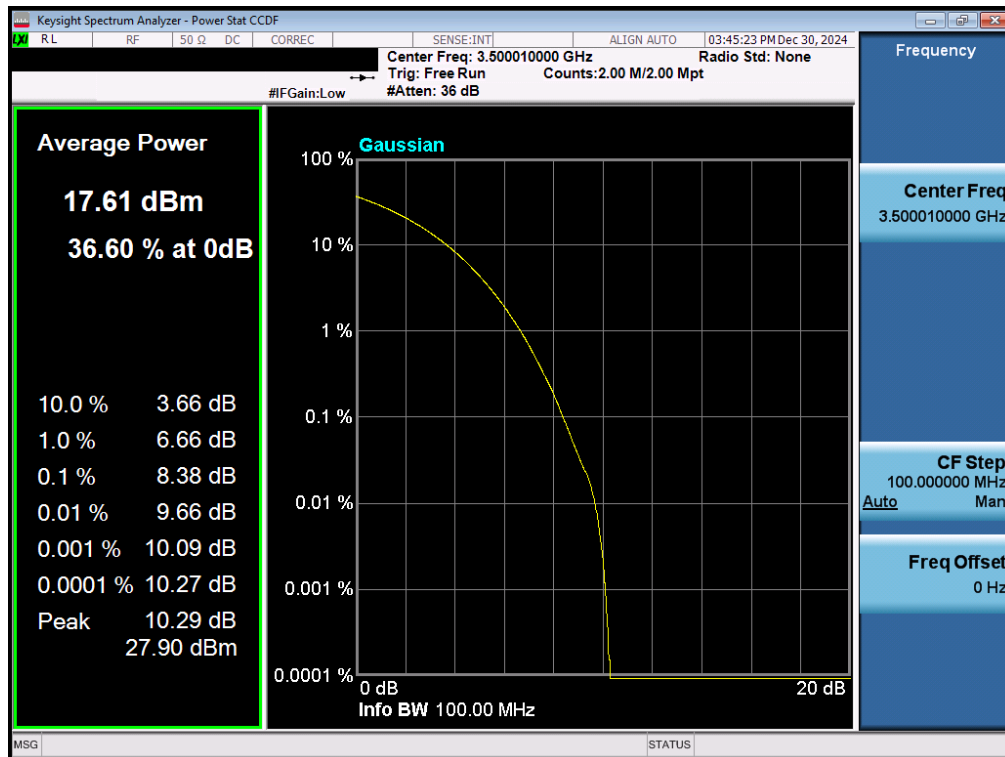


Plot 7-350. PAR Plot (NR Band n77 DoD - 100MHz DFT-s-OFDM BPSK - Full RB – SRS Ant3)



Plot 7-351. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM QPSK - Full RB – SRS Ant3)

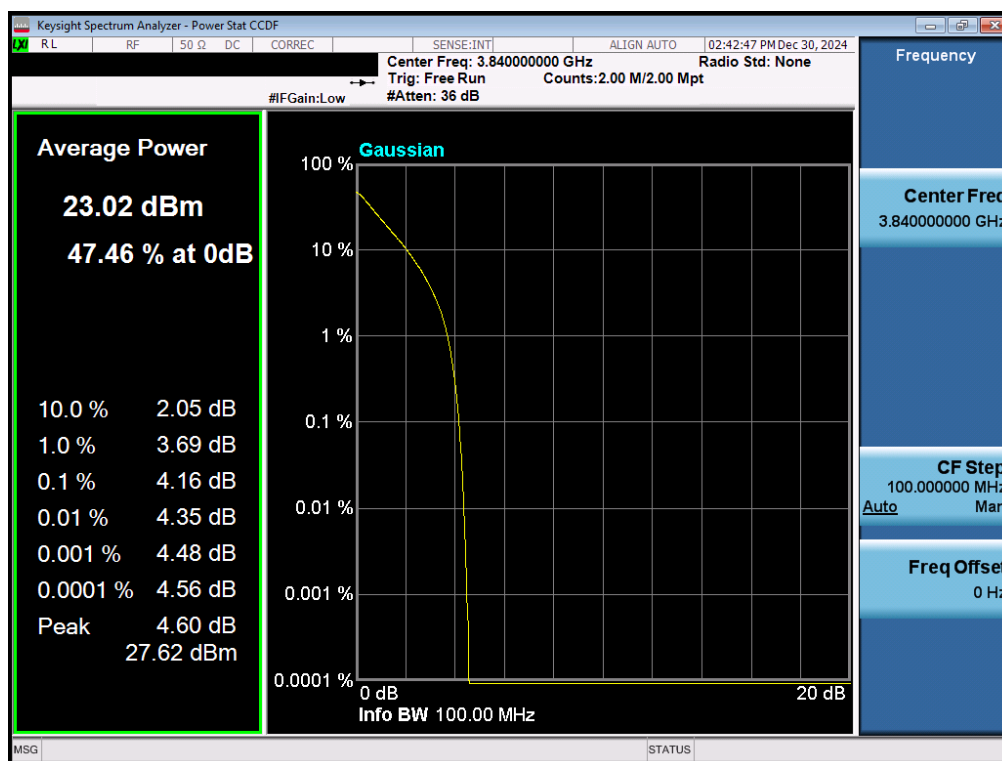
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 237 of 287



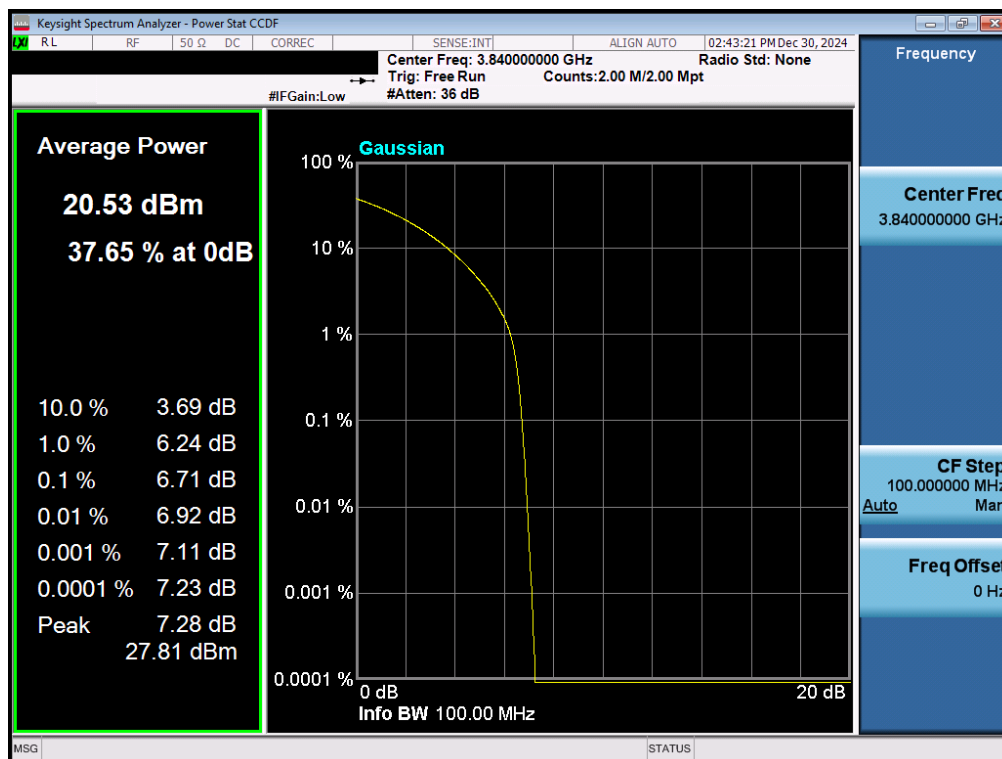
Plot 7-352. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM 256-QAM - Full RB – SRS Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 238 of 287

NR Band n77 C-Band – SRS Ant3

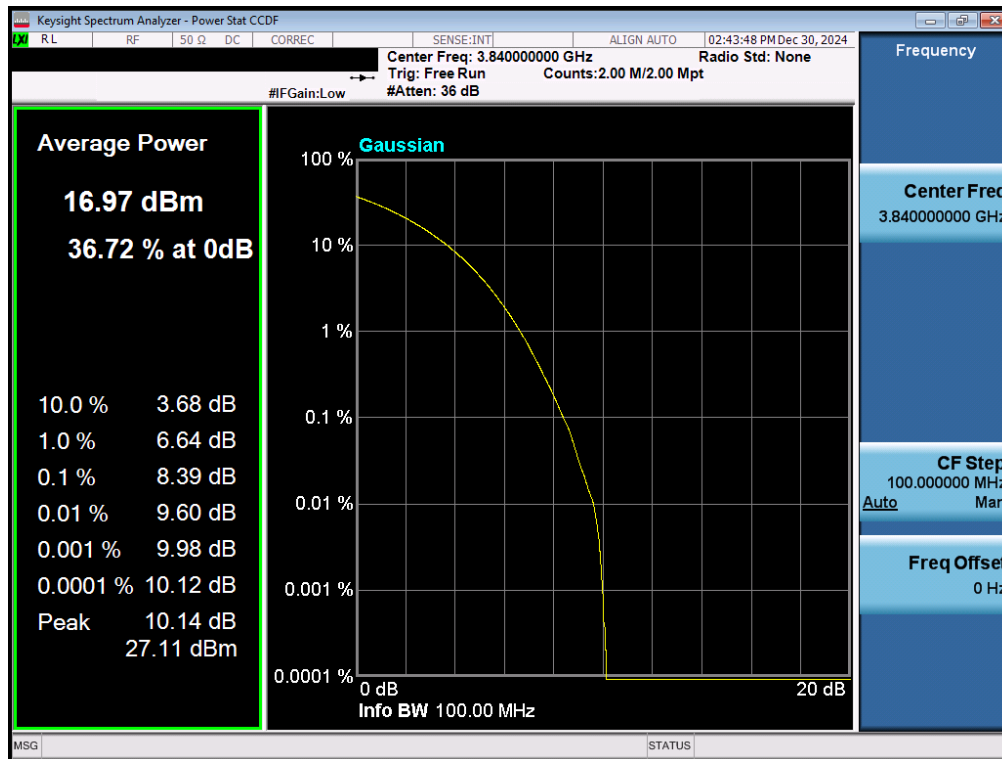


Plot 7-353. PAR Plot (NR Band n77 C-Band - 100MHz DFT-s-OFDM BPSK - Full RB – SRS Ant3)



Plot 7-354. PAR Plot (NR Band n77 C-Band - 100MHz CP-OFDM QPSK - Full RB – SRS Ant3)

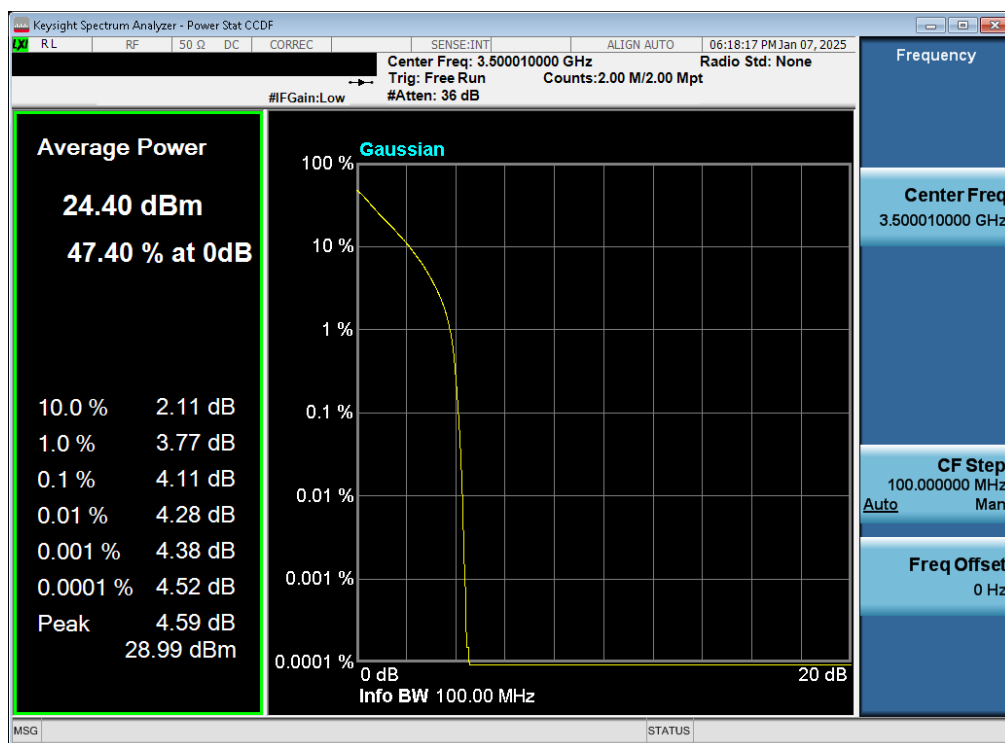
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 239 of 287



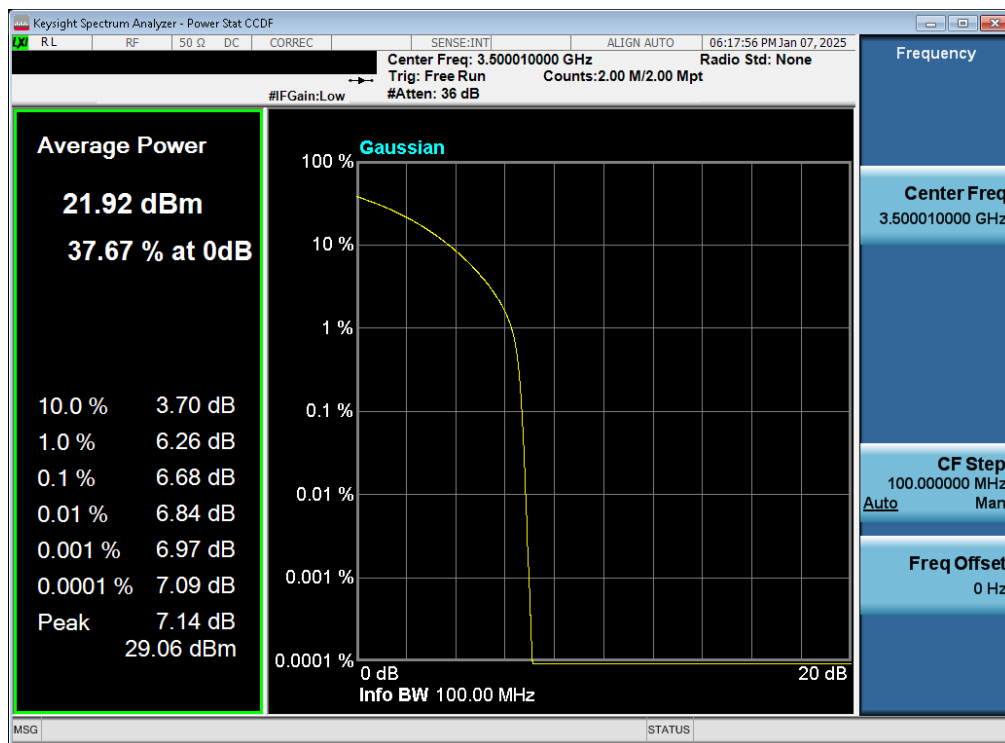
Plot 7-355. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM 256-QAM - Full RB – SRS Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 240 of 287

NR Band n77 DoD – SRS Ant4

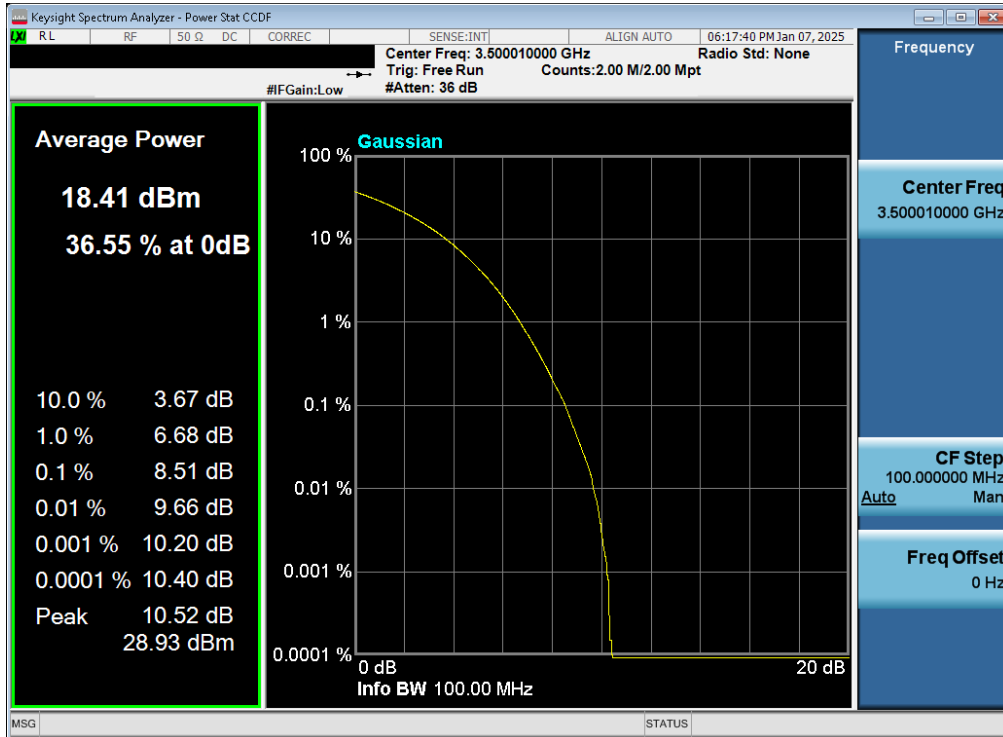


Plot 7-356. PAR Plot (NR Band n77 DoD - 100MHz DFT-s-OFDM BPSK - Full RB – SRS Ant4)



Plot 7-357. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM QPSK - Full RB – SRS Ant4)

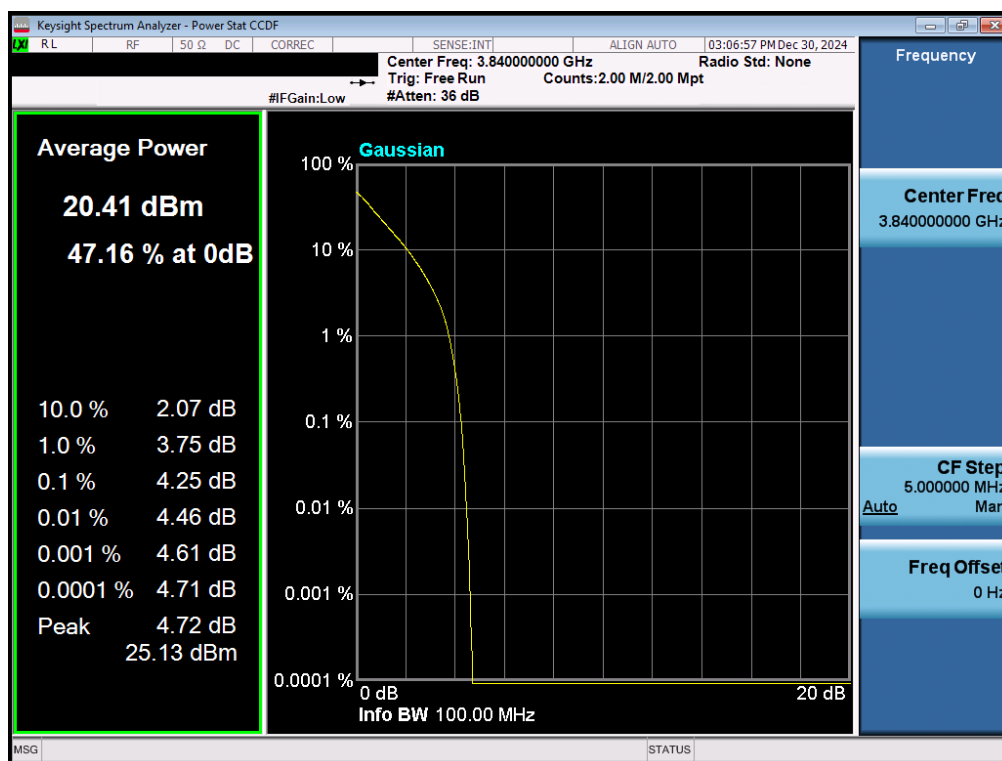
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 241 of 287



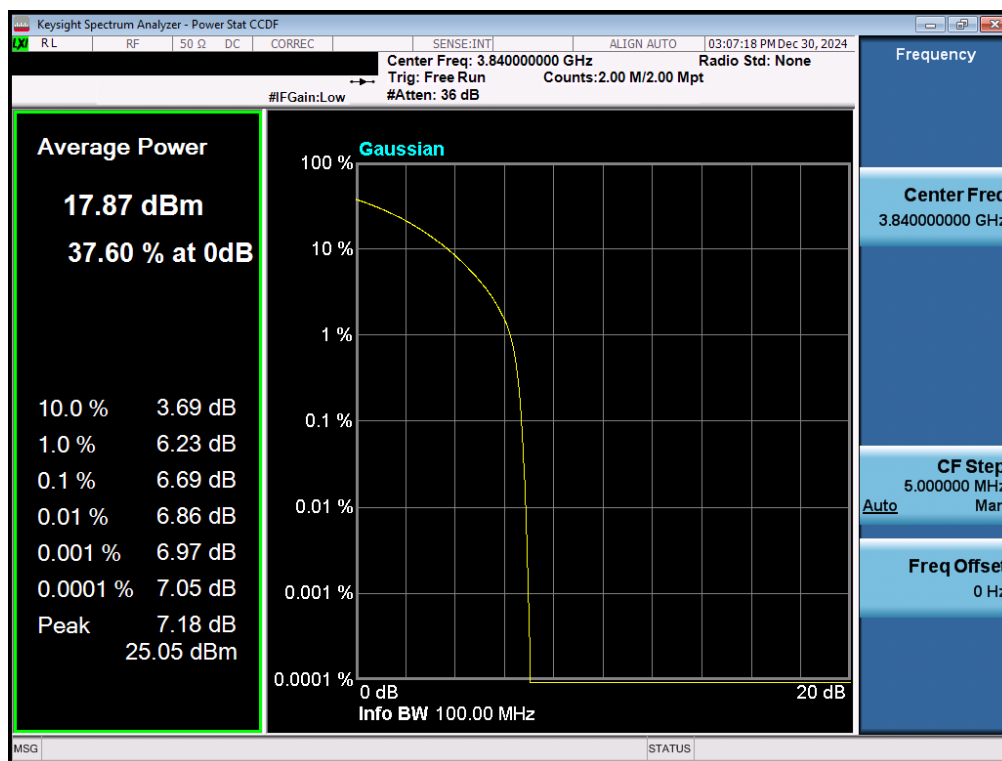
Plot 7-358. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM 256-QAM - Full RB – SRS Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 242 of 287

NR Band n77 C-Band – SRS Ant4

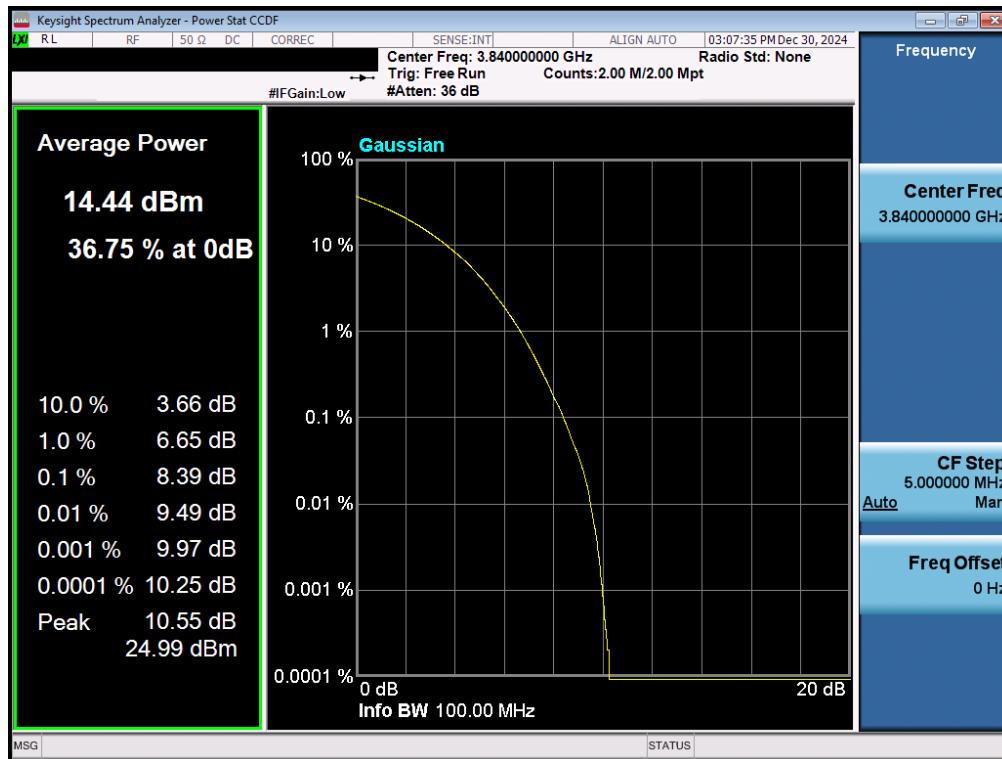


Plot 7-359. PAR Plot (NR Band n77 C-Band - 100MHz DFT-s-OFDM BPSK - Full RB – SRS Ant4)



Plot 7-360. PAR Plot (NR Band n77 C-Band - 100MHz CP-OFDM QPSK - Full RB – SRS Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 243 of 287



Plot 7-361. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM 256-QAM - Full RB – SRS Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 244 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2-R1	100MHz	$\pi/2$ BPSK	23.35	4.65	13	-8.35
		QPSK	20.85	6.61	13	-6.39
		256QAM	17.27	8.55	13	-4.45
	90MHz	$\pi/2$ BPSK	25.35	4.59	13	-8.41
		QPSK	22.88	6.63	13	-6.37
		256QAM	19.34	8.49	13	-4.51
	80MHz	$\pi/2$ BPSK	25.34	4.61	13	-8.39
		QPSK	22.83	6.57	13	-6.43
		256QAM	19.31	8.62	13	-4.38
	70MHz	$\pi/2$ BPSK	25.34	4.60	13	-8.40
		QPSK	22.86	6.73	13	-6.27
		256QAM	19.27	8.59	13	-4.41
	60MHz	$\pi/2$ BPSK	25.53	4.62	13	-8.38
		QPSK	22.92	6.56	13	-6.44
		256QAM	19.42	8.67	13	-4.33
	50MHz	$\pi/2$ BPSK	25.33	4.66	13	-8.34
		QPSK	22.92	6.51	13	-6.49
		256QAM	19.41	8.76	13	-4.24
	40MHz	$\pi/2$ BPSK	25.64	4.38	13	-8.62
		QPSK	23.14	6.52	13	-6.48
		256QAM	19.62	8.56	13	-4.44
	30MHz	$\pi/2$ BPSK	25.68	4.39	13	-8.61
		QPSK	23.19	6.62	13	-6.38
		256QAM	19.70	8.51	13	-4.49
	20MHz	$\pi/2$ BPSK	25.57	4.75	13	-8.25
		QPSK	23.11	6.55	13	-6.45
		256QAM	19.59	8.34	13	-4.66
	15MHz	$\pi/2$ BPSK	25.58	4.47	13	-8.53
		QPSK	23.13	6.62	13	-6.38
		256QAM	19.55	8.50	13	-4.50
	10MHz	$\pi/2$ BPSK	25.43	4.41	13	-8.59
		QPSK	22.91	6.47	13	-6.53
		256QAM	19.43	8.50	13	-4.50

Table 7-38. Peak Average Ratio Test Results – NR Band n77 DoD – UL MIMO Ant6

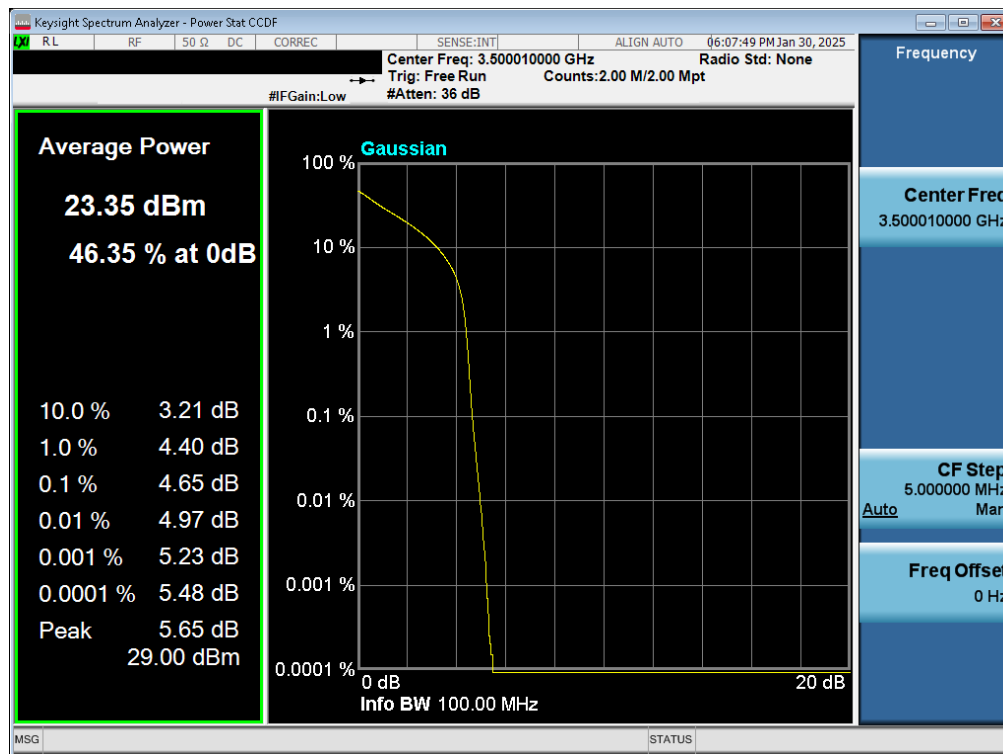
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 245 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2	100MHz	$\pi/2$ BPSK	22.69	4.62	13	-8.38
		QPSK	20.23	6.69	13	-6.31
		256QAM	16.65	8.48	13	-4.52
	90MHz	$\pi/2$ BPSK	24.69	4.53	13	-8.47
		QPSK	22.18	6.62	13	-6.38
		256QAM	18.70	8.57	13	-4.43
	80MHz	$\pi/2$ BPSK	24.77	4.54	13	-8.46
		QPSK	22.32	6.59	13	-6.41
		256QAM	18.70	8.46	13	-4.54
	70MHz	$\pi/2$ BPSK	24.70	4.57	13	-8.43
		256QAM	18.69	8.45	13	-4.55
	60MHz	$\pi/2$ BPSK	24.95	4.95	13	-8.05
		QPSK	22.33	6.55	13	-6.45
		256QAM	18.83	8.59	13	-4.41
	50MHz	$\pi/2$ BPSK	24.85	4.63	13	-8.37
		QPSK	22.43	6.47	13	-6.53
		256QAM	18.86	8.54	13	-4.46
	40MHz	$\pi/2$ BPSK	25.04	4.40	13	-8.60
		QPSK	22.55	6.59	13	-6.41
		256QAM	19.01	8.43	13	-4.57
	30MHz	$\pi/2$ BPSK	24.97	4.45	13	-8.55
		QPSK	22.52	6.65	13	-6.35
		256QAM	19.00	8.52	13	-4.48
	20MHz	$\pi/2$ BPSK	24.81	4.72	13	-8.28
		QPSK	22.33	6.55	13	-6.45
		256QAM	18.79	8.46	13	-4.54
	15MHz	$\pi/2$ BPSK	24.83	4.46	13	-8.54
		QPSK	22.35	6.67	13	-6.33
		256QAM	18.83	8.37	13	-4.63
	10MHz	$\pi/2$ BPSK	24.69	4.49	13	-8.51
		QPSK	22.20	6.50	13	-6.50
		256QAM	18.65	8.75	13	-4.25

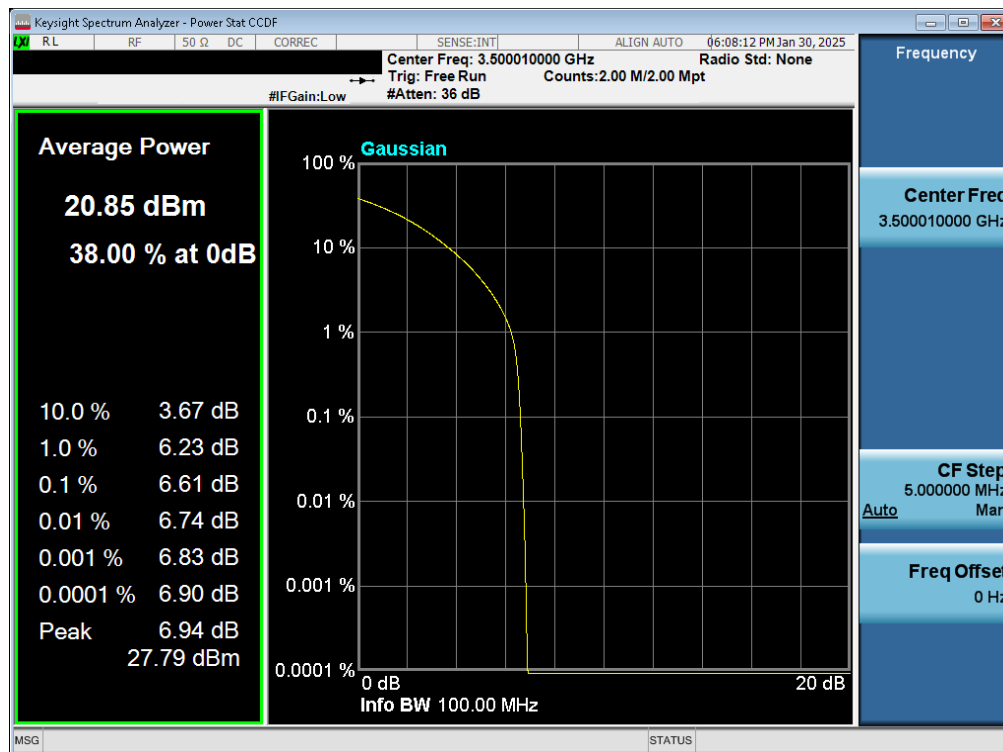
Table 7-39. Peak Average Ratio Test Results – NR Band n77 C-Band – UL MIMO Ant6

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 246 of 287

NR Band n77 DoD – UL MIMO Ant6

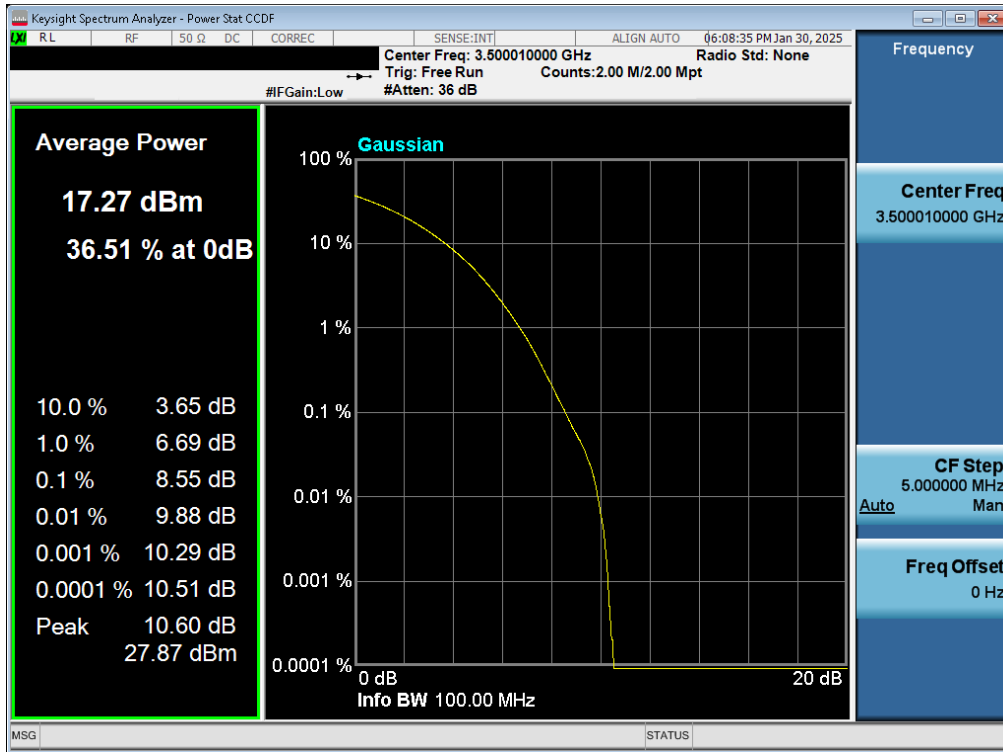


Plot 7-362. PAR Plot (NR Band n77 DoD - 100MHz DFT-s-OFDM BPSK - Full RB – UL MIMO Ant6)



Plot 7-363. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM QPSK - Full RB – UL MIMO Ant6)

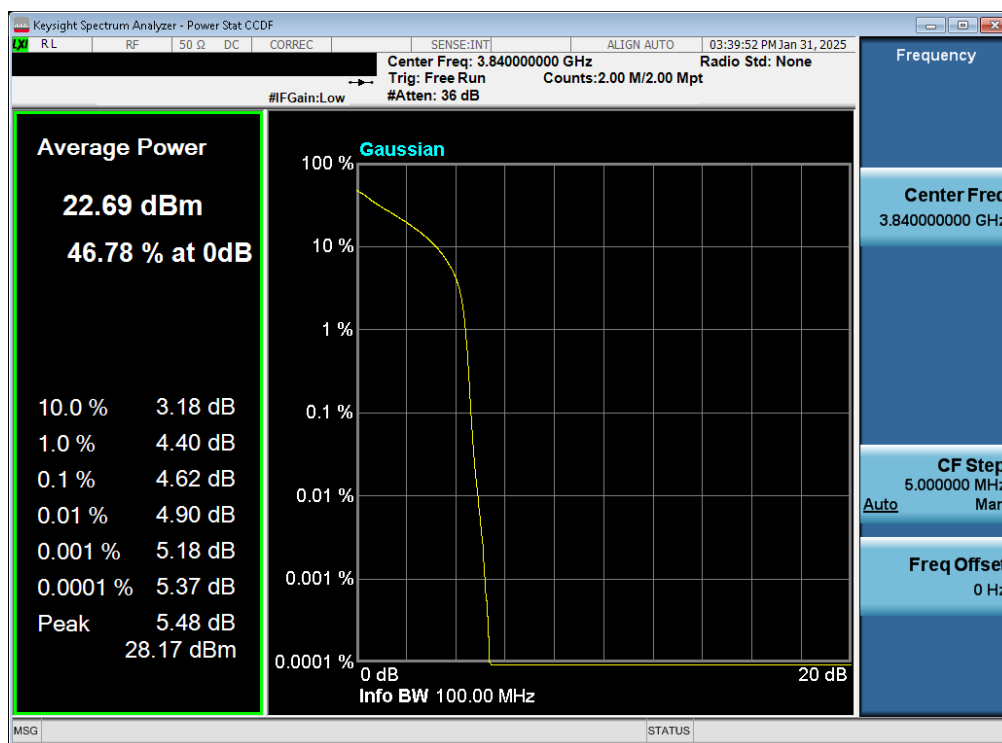
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 247 of 287



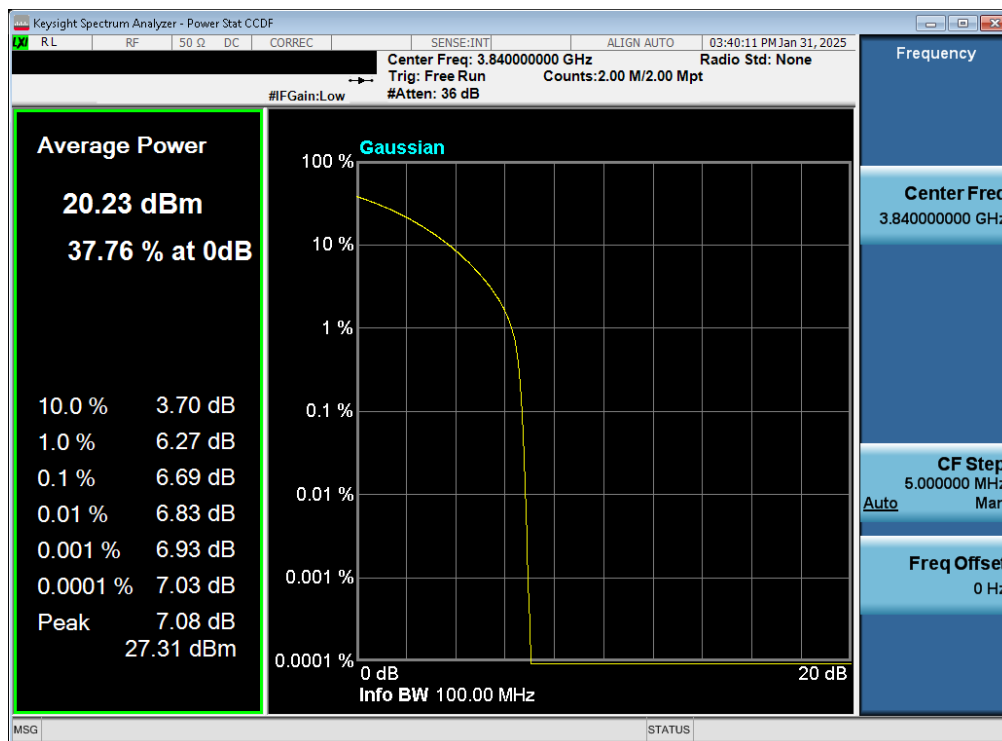
Plot 7-364. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM 256-QAM - Full RB – UL MIMO Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 248 of 287

NR Band n77 C-Band – UL MIMO Ant6

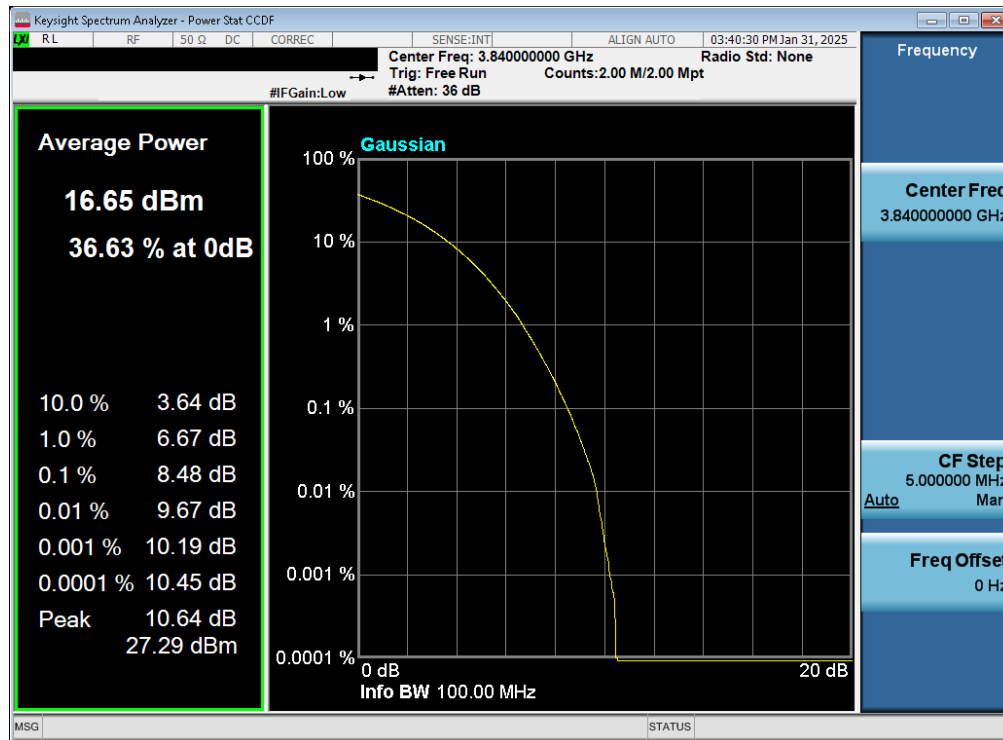


Plot 7-365. PAR Plot (NR Band n77 C-Band - 100MHz DFT-s-OFDM BPSK - Full RB – UL MIMO Ant6)



Plot 7-366. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM QPSK - Full RB – UL MIMO Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 249 of 287



Plot 7-367. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM 256-QAM - Full RB – UL MIMO Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 250 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2-R1	100MHz	$\pi/2$ BPSK	22.66	4.61	13	-8.39
		QPSK	20.19	6.68	13	-6.32
		256QAM	16.68	8.43	13	-4.57
	90MHz	$\pi/2$ BPSK	24.68	4.62	13	-8.38
		QPSK	22.22	6.62	13	-6.38
		256QAM	18.70	8.53	13	-4.47
	80MHz	$\pi/2$ BPSK	24.68	4.66	13	-8.34
		QPSK	22.17	6.61	13	-6.39
		256QAM	18.77	8.57	13	-4.43
	70MHz	$\pi/2$ BPSK	24.65	4.61	13	-8.39
		QPSK	22.19	6.72	13	-6.28
		256QAM	18.65	8.68	13	-4.32
	60MHz	$\pi/2$ BPSK	24.98	4.89	13	-8.11
		QPSK	22.40	6.56	13	-6.44
		256QAM	18.81	8.59	13	-4.41
	50MHz	$\pi/2$ BPSK	24.73	4.61	13	-8.40
		QPSK	22.34	6.50	13	-6.50
		256QAM	18.77	8.60	13	-4.40
	40MHz	$\pi/2$ BPSK	24.95	4.46	13	-8.54
		QPSK	22.49	6.53	13	-6.47
		256QAM	18.99	8.47	13	-4.53
	30MHz	$\pi/2$ BPSK	24.97	4.36	13	-8.64
		QPSK	22.52	6.67	13	-6.33
		256QAM	19.06	8.63	13	-4.37
	20MHz	$\pi/2$ BPSK	24.93	4.75	13	-8.25
		QPSK	22.49	6.58	13	-6.42
		256QAM	19.00	8.62	13	-4.38
	15MHz	$\pi/2$ BPSK	24.95	4.48	13	-8.52
		QPSK	22.50	6.66	13	-6.34
		256QAM	19.00	8.74	13	-4.26
	10MHz	$\pi/2$ BPSK	24.85	4.40	13	-8.60
		QPSK	22.35	6.51	13	-6.49
		256QAM	18.80	8.47	13	-4.53

Table 7-40. Peak Average Ratio Test Results – NR Band n77 DoD – UL MIMO Ant1

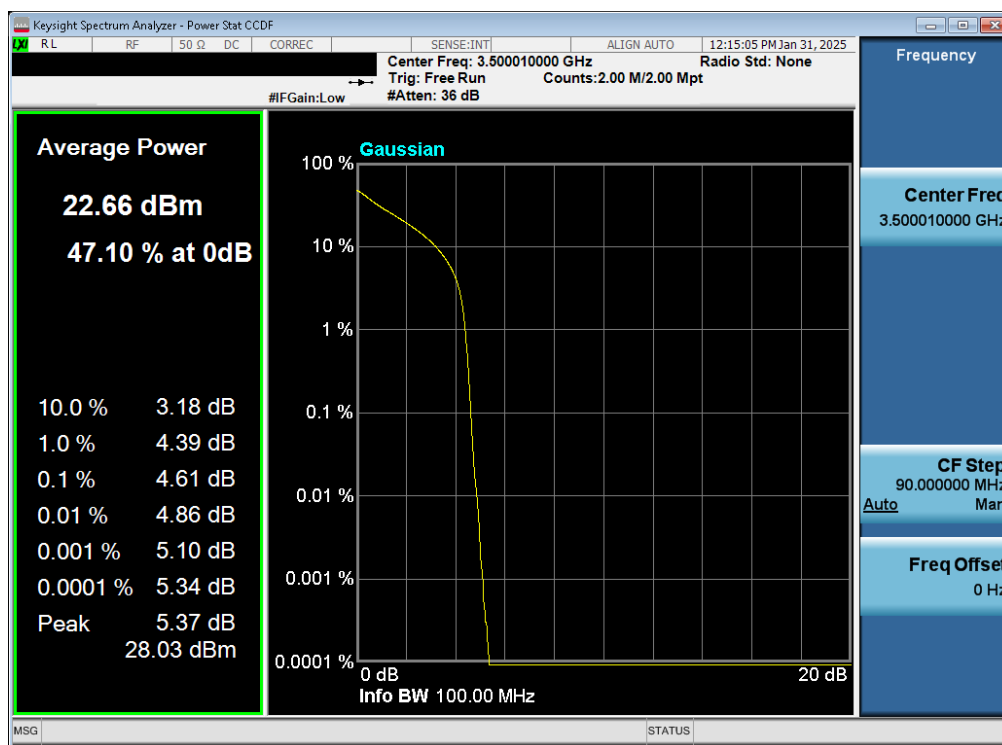
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 251 of 287

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2	100MHz	$\pi/2$ BPSK	23.80	4.25	13	-8.75
		QPSK	21.25	6.72	13	-6.28
		256QAM	17.78	8.43	13	-4.57
	90MHz	$\pi/2$ BPSK	24.40	4.54	13	-8.46
		QPSK	21.86	6.68	13	-6.32
		256QAM	18.38	8.45	13	-4.55
	80MHz	$\pi/2$ BPSK	24.36	4.64	13	-8.36
		QPSK	21.86	6.60	13	-6.40
		256QAM	18.35	8.47	13	-4.53
	70MHz	$\pi/2$ BPSK	24.33	4.57	13	-8.43
		QPSK	21.87	6.73	13	-6.27
		256QAM	18.39	8.46	13	-4.54
	60MHz	$\pi/2$ BPSK	24.59	4.89	13	-8.11
		QPSK	22.03	6.57	13	-6.43
		256QAM	18.52	8.49	13	-4.51
	50MHz	$\pi/2$ BPSK	24.53	4.64	13	-8.36
		QPSK	22.08	6.45	13	-6.55
		256QAM	18.53	8.54	13	-4.46
	40MHz	$\pi/2$ BPSK	24.72	4.43	13	-8.57
		QPSK	22.25	6.55	13	-6.45
		256QAM	18.69	8.48	13	-4.52
	30MHz	$\pi/2$ BPSK	24.71	4.43	13	-8.57
		QPSK	22.30	6.64	13	-6.36
		256QAM	18.75	8.61	13	-4.39
	20MHz	$\pi/2$ BPSK	24.54	4.73	13	-8.27
		QPSK	22.08	6.59	13	-6.41
		256QAM	18.60	8.65	13	-4.35
	15MHz	$\pi/2$ BPSK	24.63	4.47	13	-8.53
		QPSK	22.14	6.69	13	-6.31
		256QAM	18.50	8.52	13	-4.48
	10MHz	$\pi/2$ BPSK	24.44	4.44	13	-8.56
		QPSK	21.93	6.56	13	-6.44
		256QAM	18.46	8.72	13	-4.28

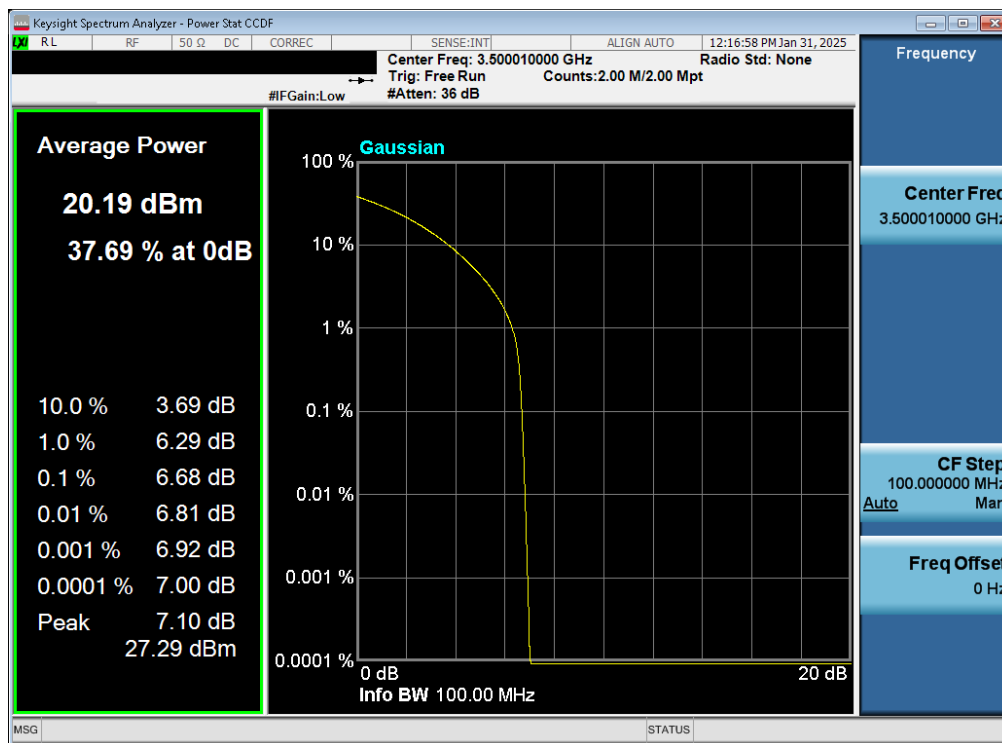
Table 7-41. Peak Average Ratio Test Results – NR Band n77 C-Band – UL MIMO Ant1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 DoD – UL MIMO Ant1

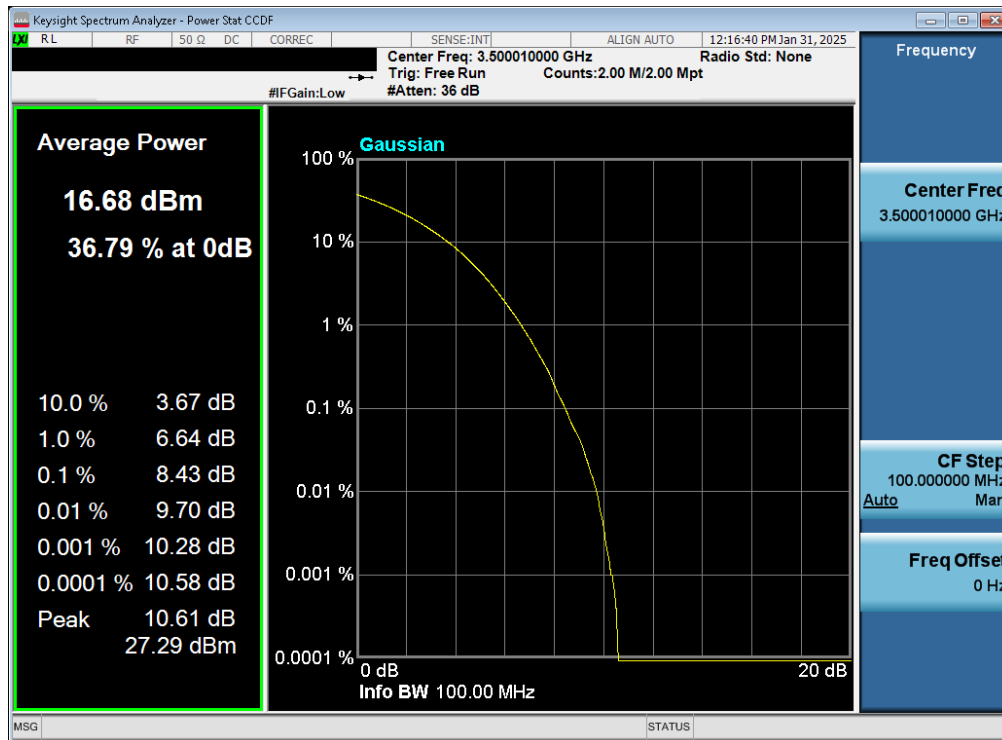


Plot 7-368. PAR Plot (NR Band n77 DoD - 100MHz DFT-s-OFDM BPSK - Full RB – UL MIMO Ant1)



Plot 7-369. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM QPSK - Full RB – UL MIMO Ant1)

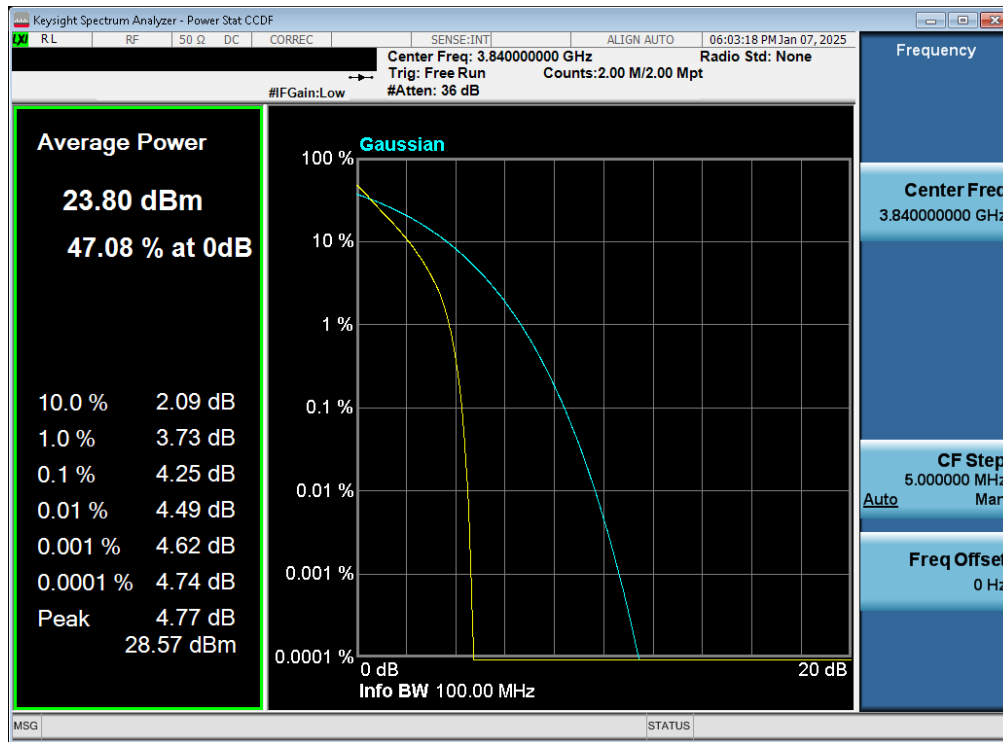
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 253 of 287



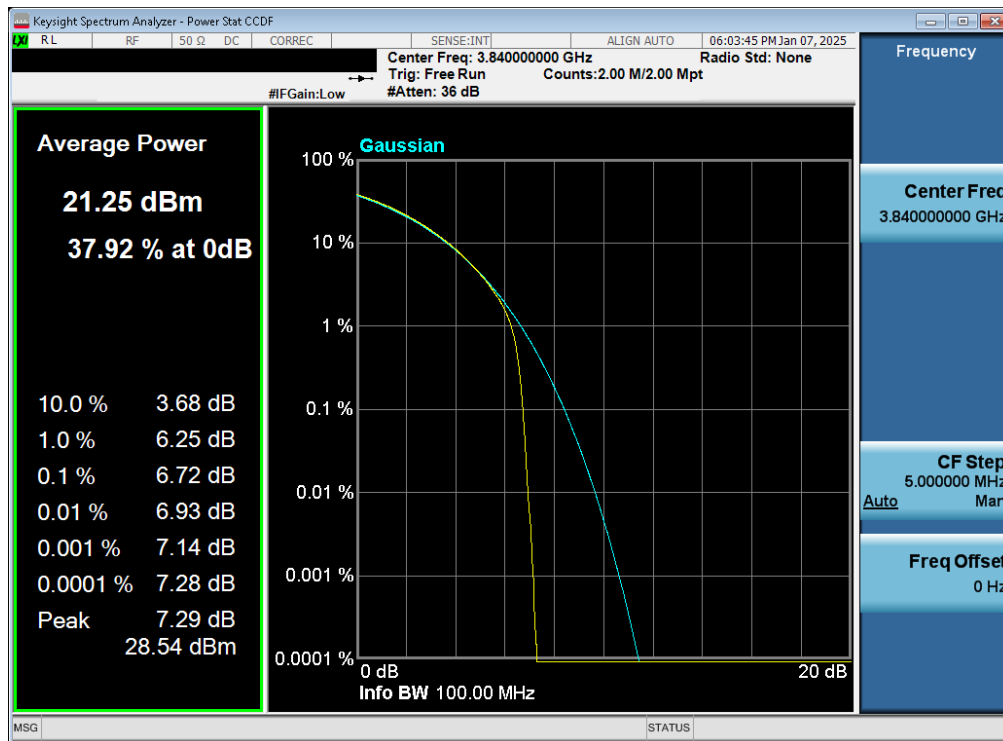
Plot 7-370. PAR Plot (NR Band n77 DoD - 100MHz CP-OFDM 256-QAM - Full RB – UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 254 of 287

NR Band n77 C-Band – UL MIMO Ant1



Plot 7-371. PAR Plot (NR Band n77 C-Band - 100MHz DFT-s-OFDM BPSK - Full RB – UL MIMO Ant1)



Plot 7-372. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM QPSK - Full RB – UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 255 of 287