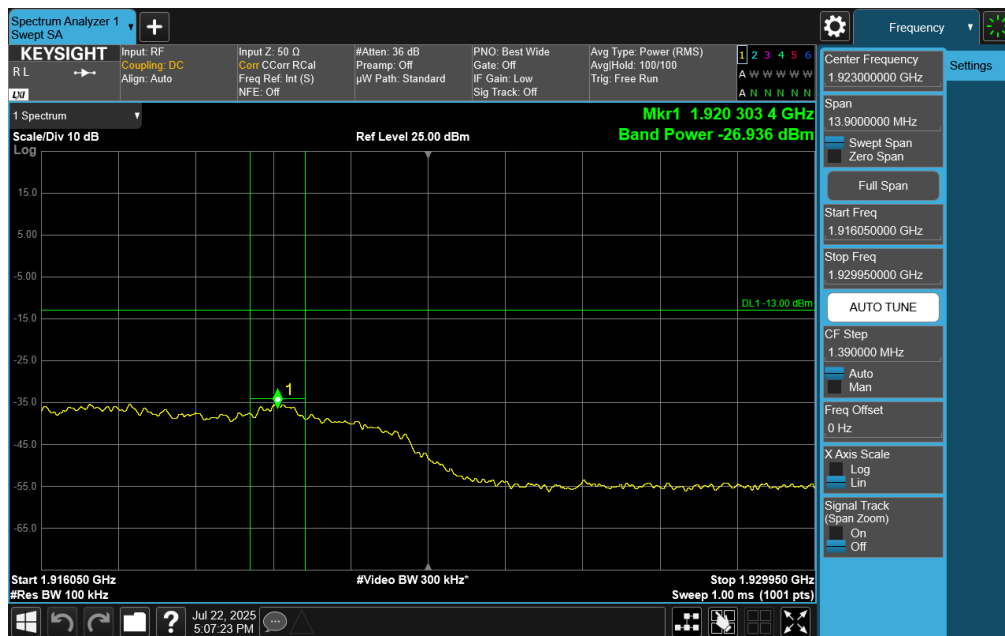
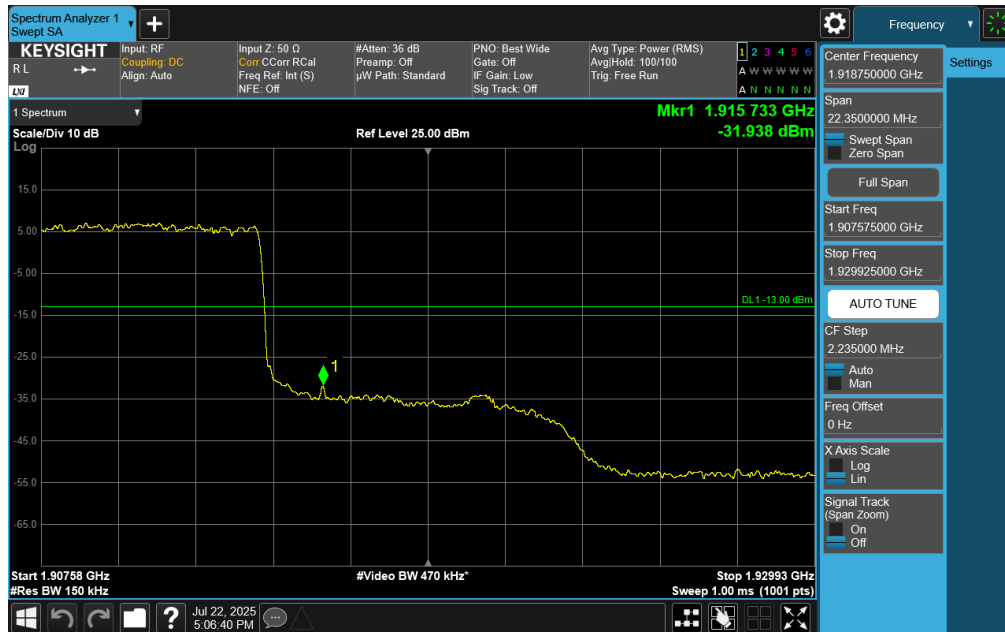
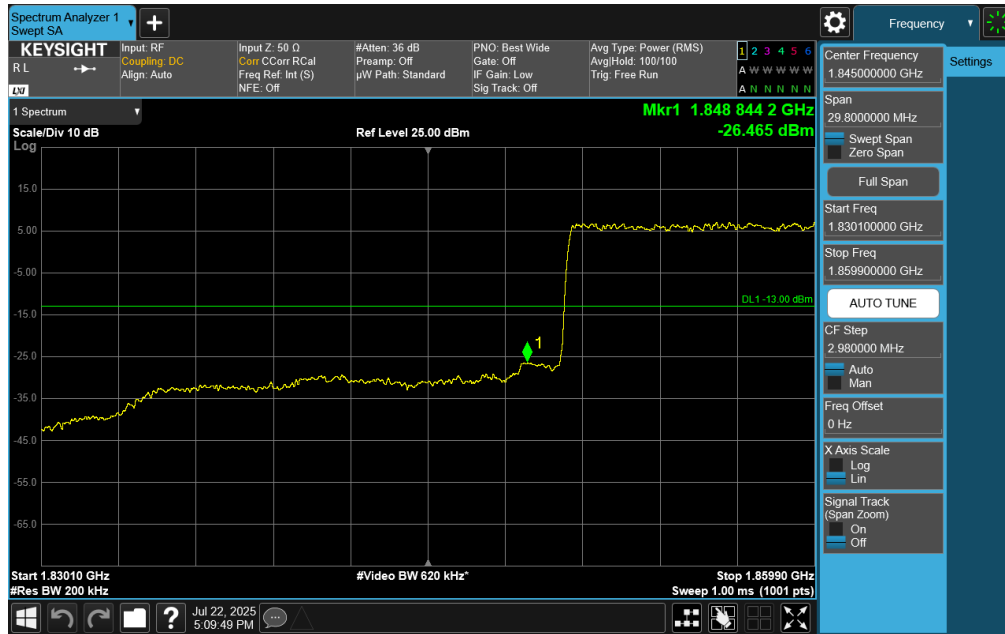




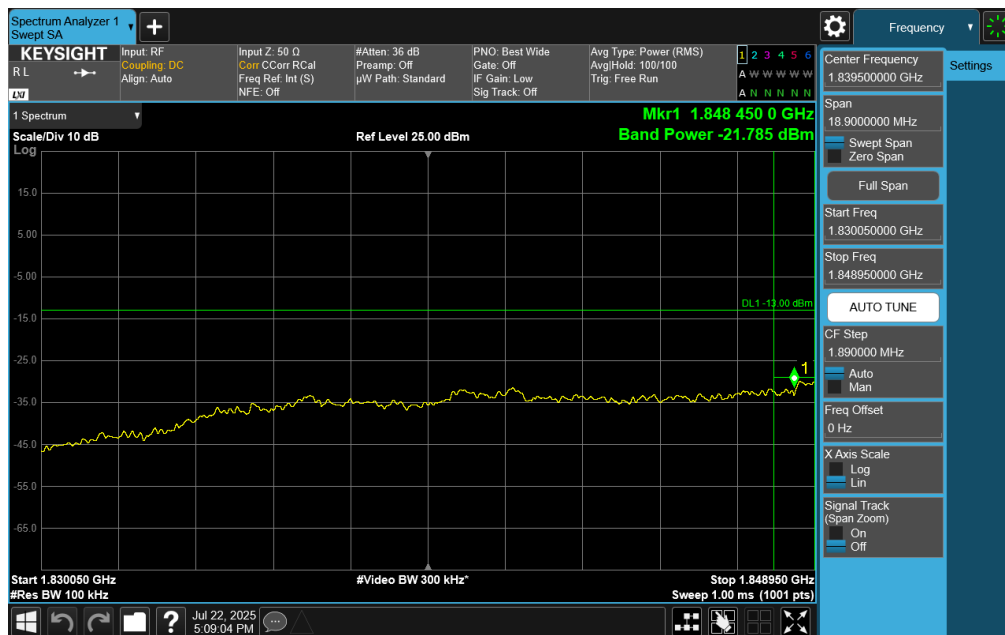
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 72 of 130

V2.2 09/07/2023

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Plot 7-107. Lower Band Edge Plot (NR Band n25 – 20MHz DF-OFDM BPSK – Full RB Configuration)

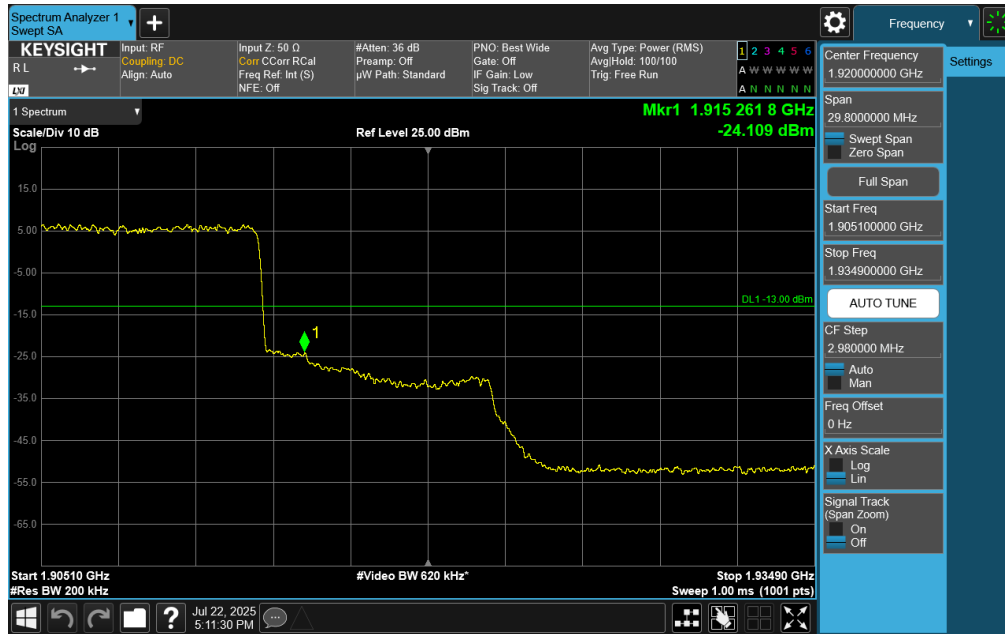


Plot 7-108. Extended Lower Band Edge Plot (NR Band n25 – 20MHz DF-OFDM BPSK – Full RB Configuration)

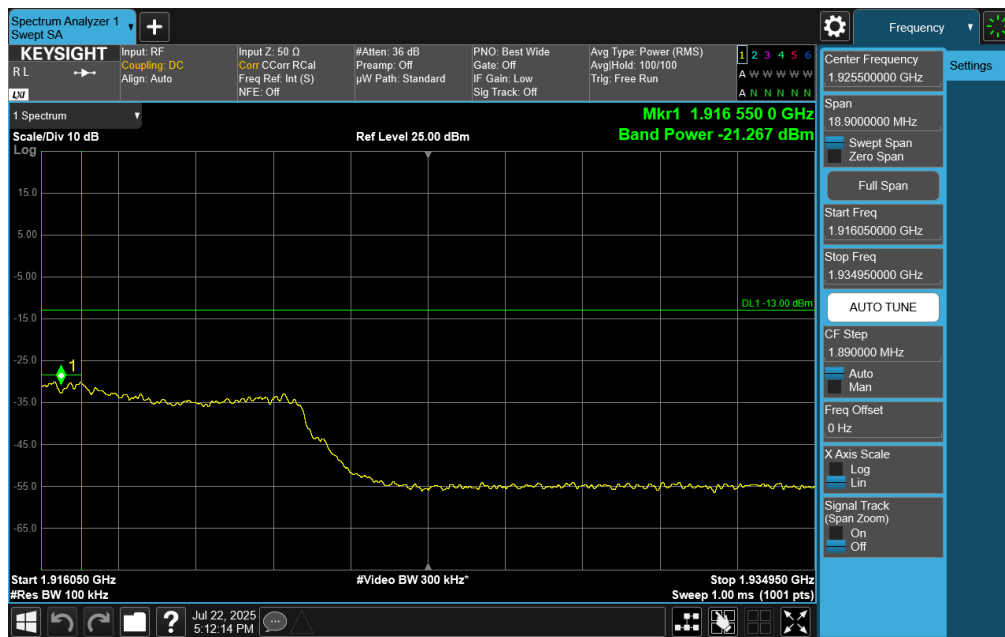
FCC ID: BCG-A3337	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 73 of 130

V2.2 09/07/2023

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Plot 7-109. Upper Band Edge Plot (NR Band n25 – 20MHz DF-OFDM BPSK – Full RB Configuration)



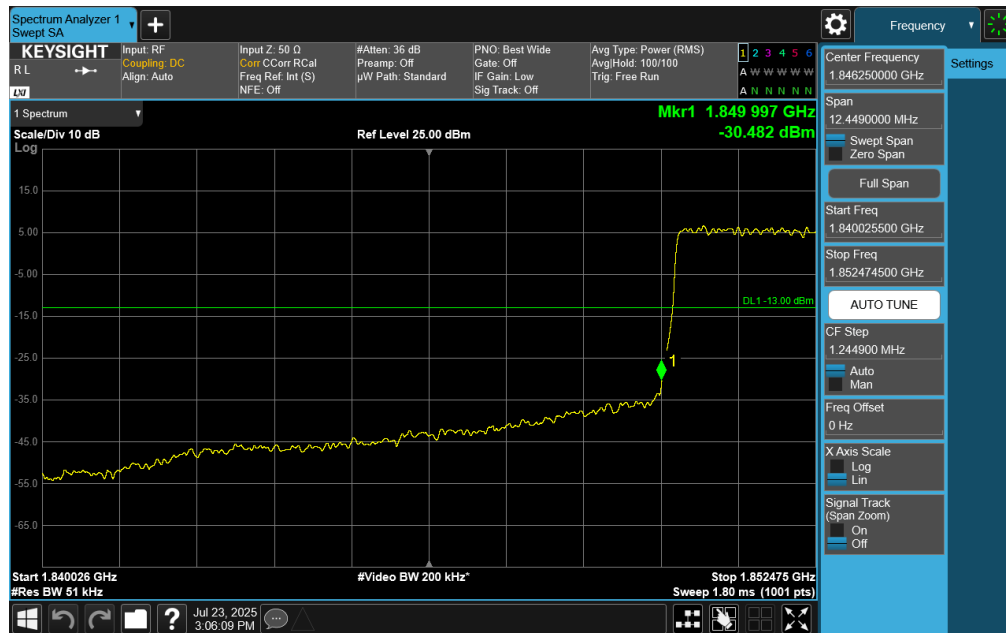
Plot 7-110. Extended Upper Band Edge Plot (NR Band n25 – 20MHz DF-OFDM BPSK – Full RB Configuration)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 74 of 130

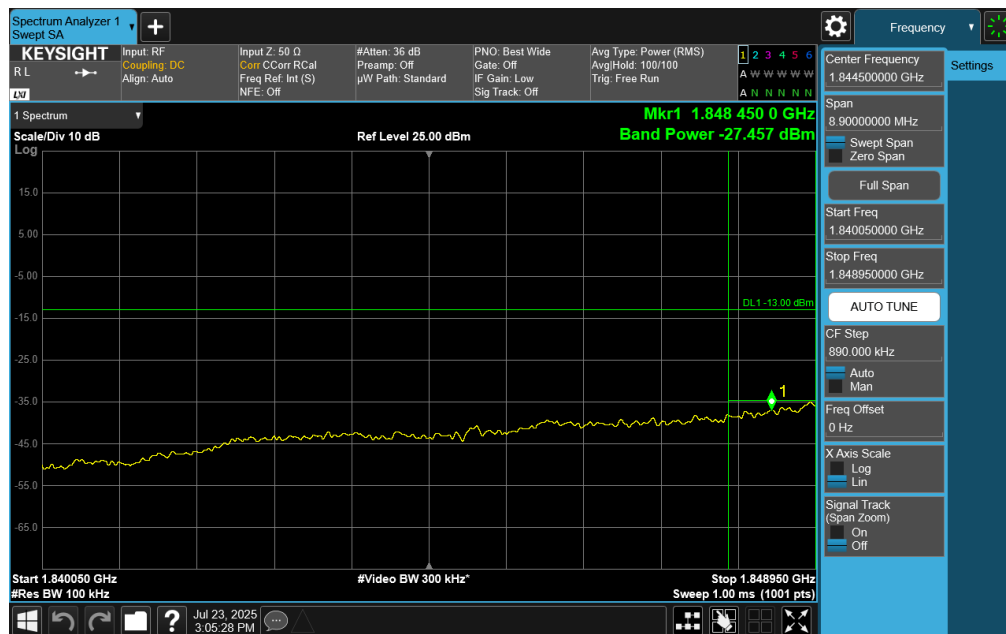
V2.2 09/07/2023

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NR Band n2



Plot 7-111. Lower Band Edge Plot (NR Band n2 – 5MHz DF-OFDM QPSK – Full RB Configuration)

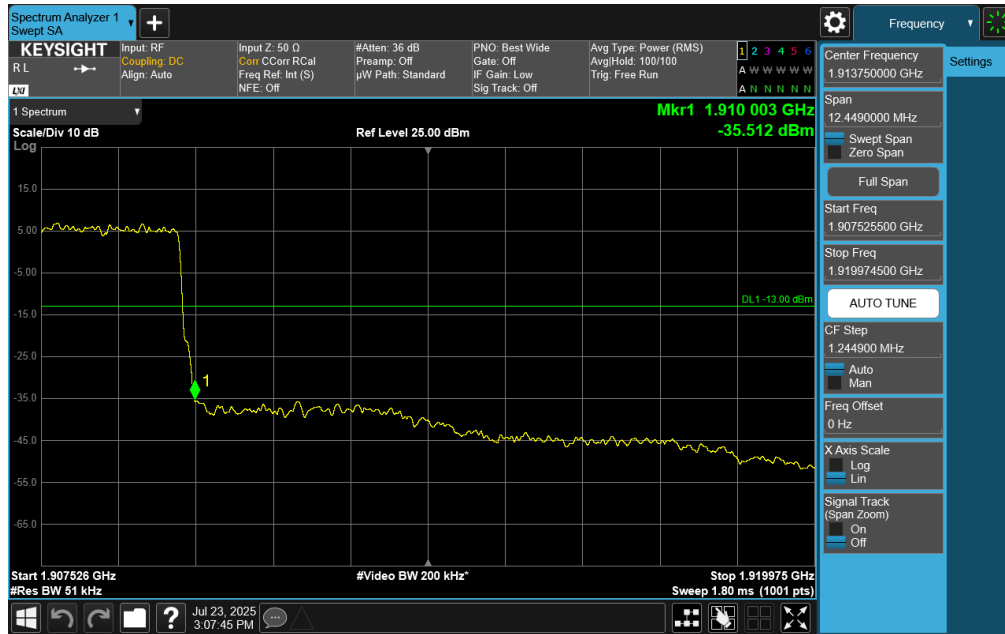


Plot 7-112. Extended Lower A Band Edge Plot (NR Band n2 – 5MHz DF-OFDM QPSK – Full RB Configuration)

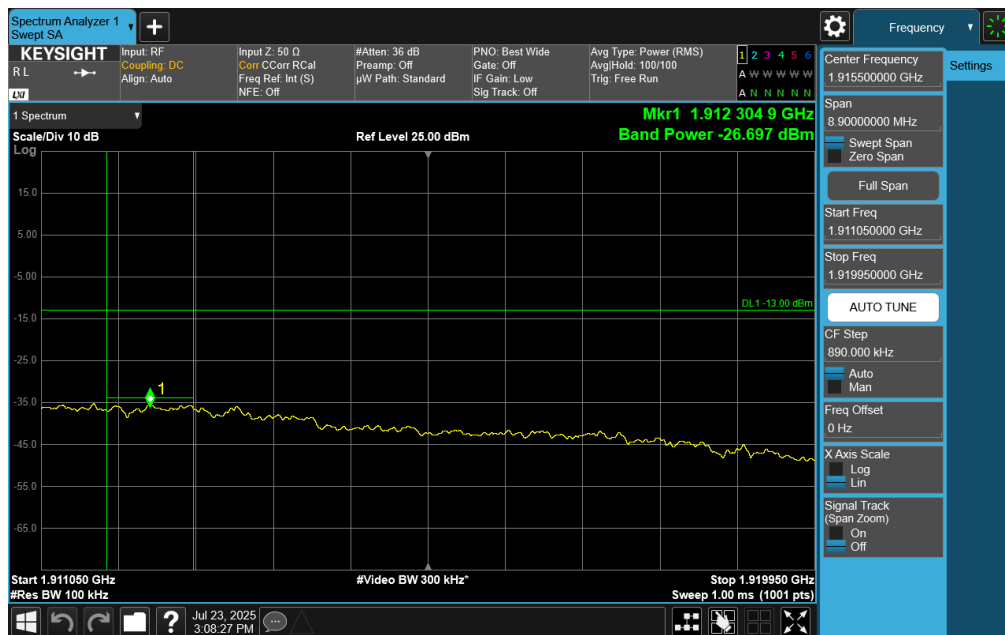
FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 75 of 130

V2.2 09/07/2023

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Plot 7-113. Upper Band Edge Plot (NR Band n2 – 5MHz DF-OFDM QPSK – Full RB Configuration)

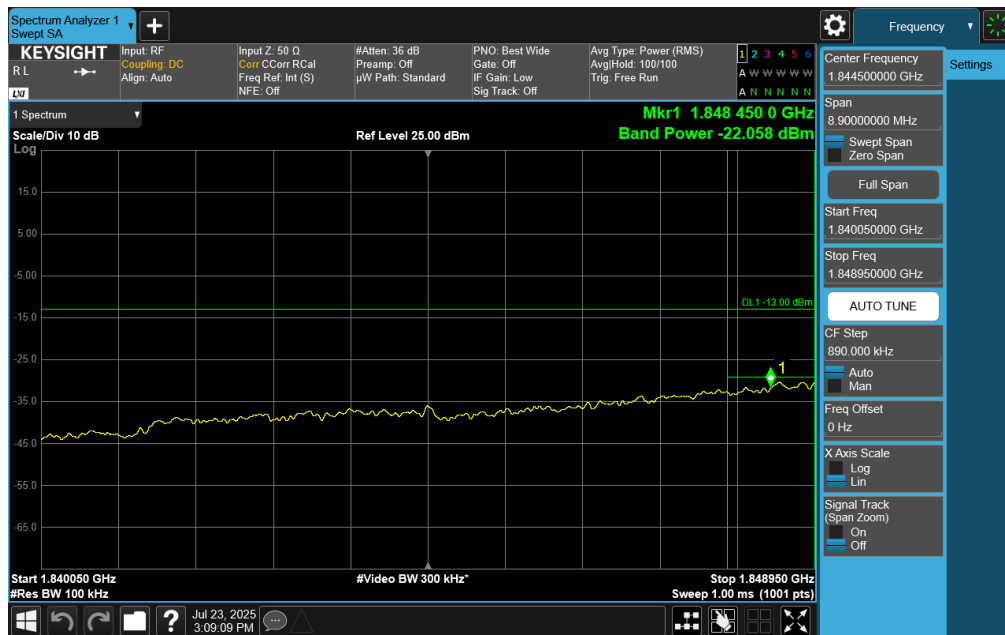
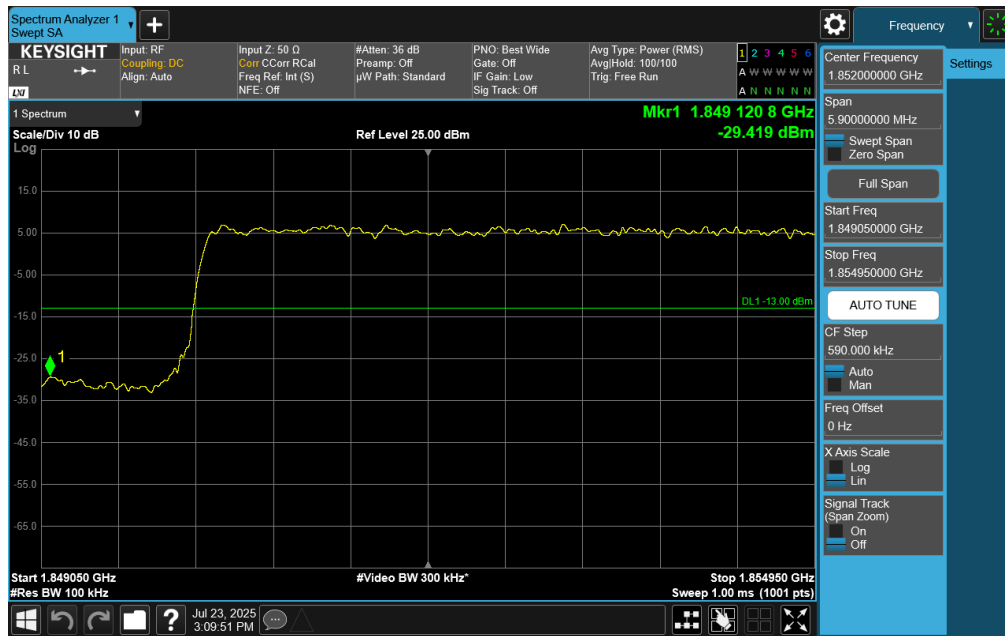


Plot 7-114. Extended Upper Band Edge Plot (NR Band n2 – 5MHz DF-OFDM QPSK – Full RB Configuration)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 76 of 130

V2.2 09/07/2023

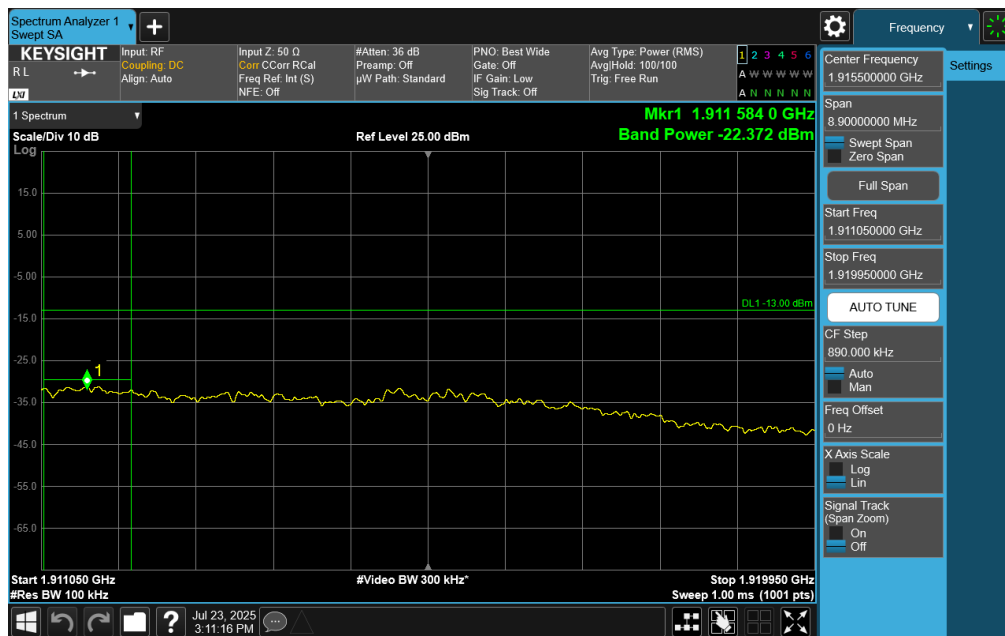
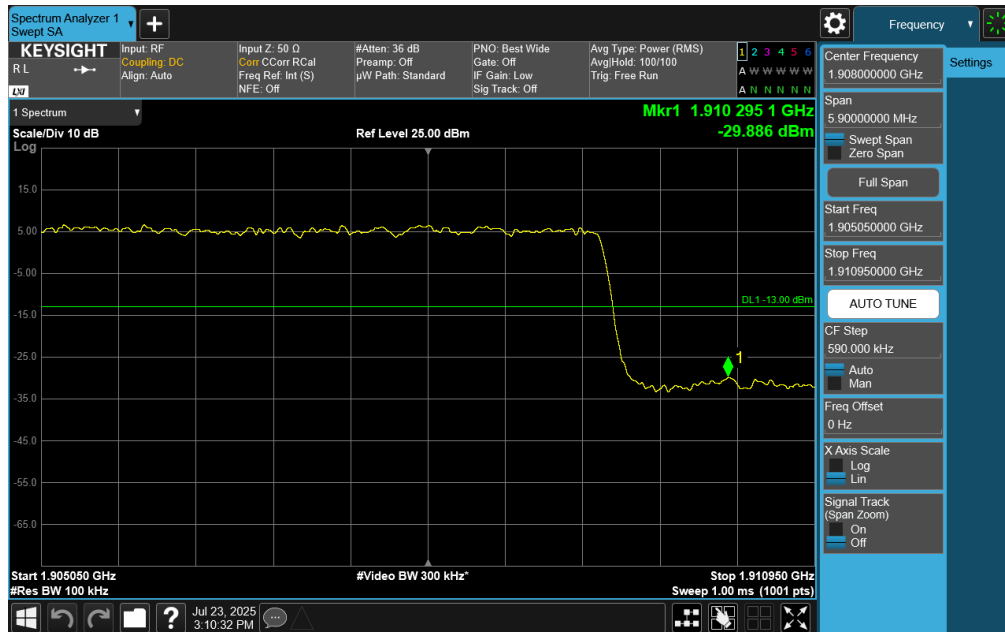
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FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 77 of 130

V2.2 09/07/2023

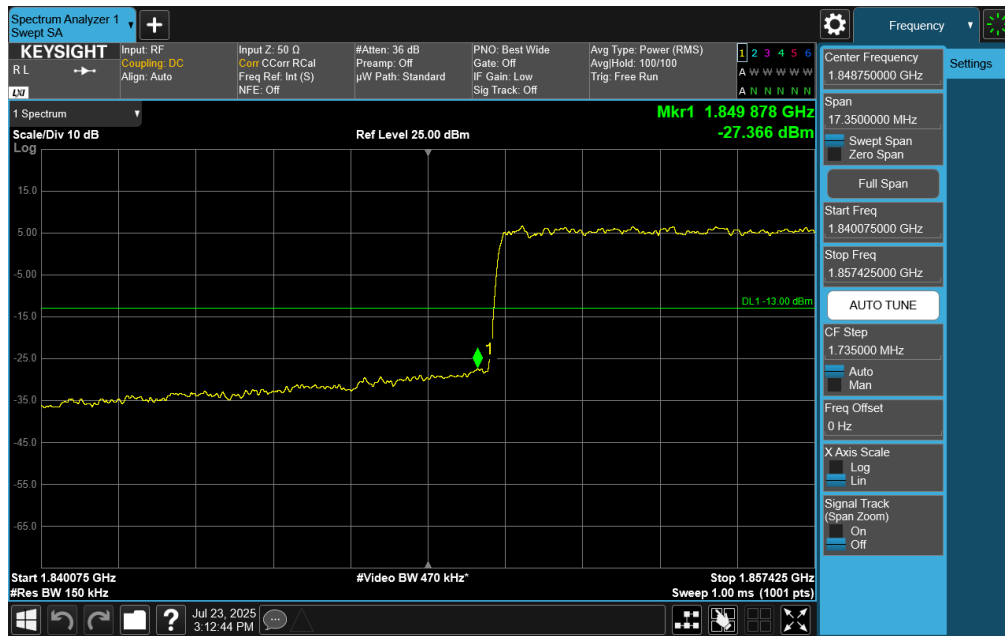
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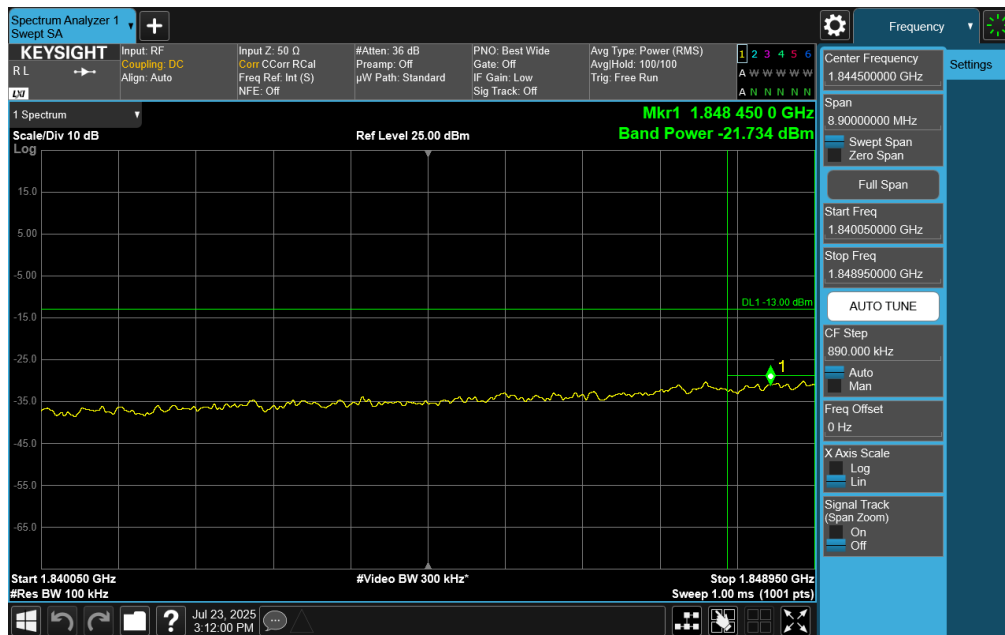
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 78 of 130

V2.2 09/07/2023

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Plot 7-119. Lower Band Edge Plot (NR Band n2 – 15MHz DF-OFDM QPSK – Full RB Configuration)

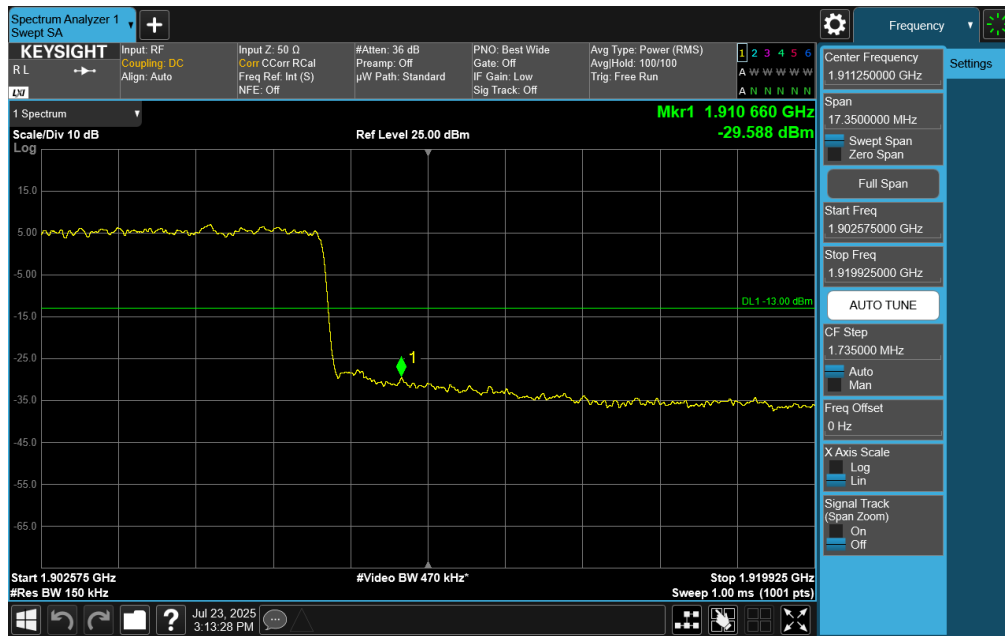


Plot 7-120. Extended Lower Band Edge Plot (NR Band n2 – 15MHz DF-OFDM QPSK – Full RB Configuration)

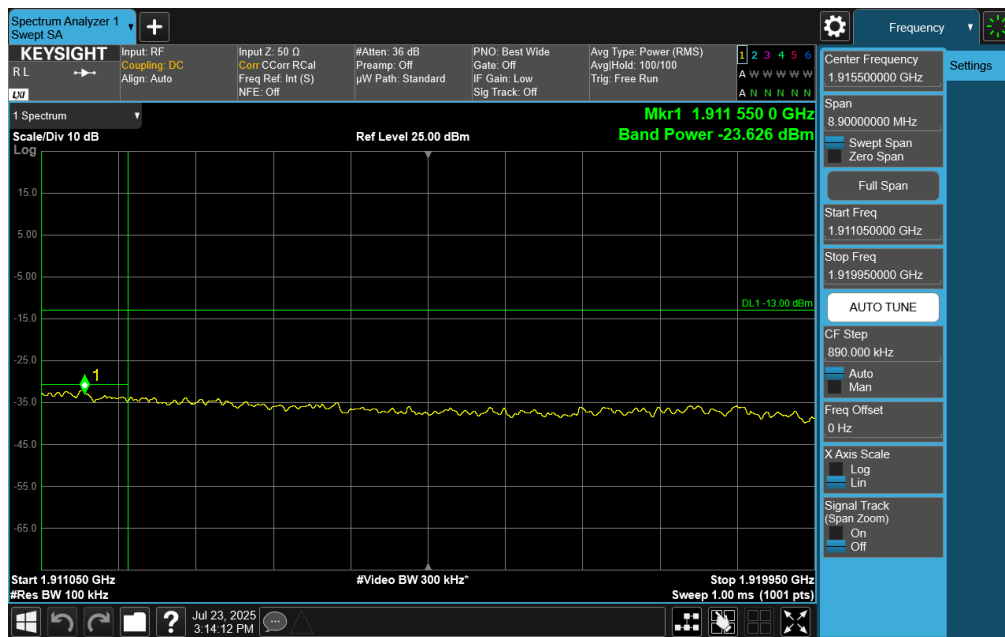
FCC ID: BCG-A3337	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 79 of 130

V2.2 09/07/2023

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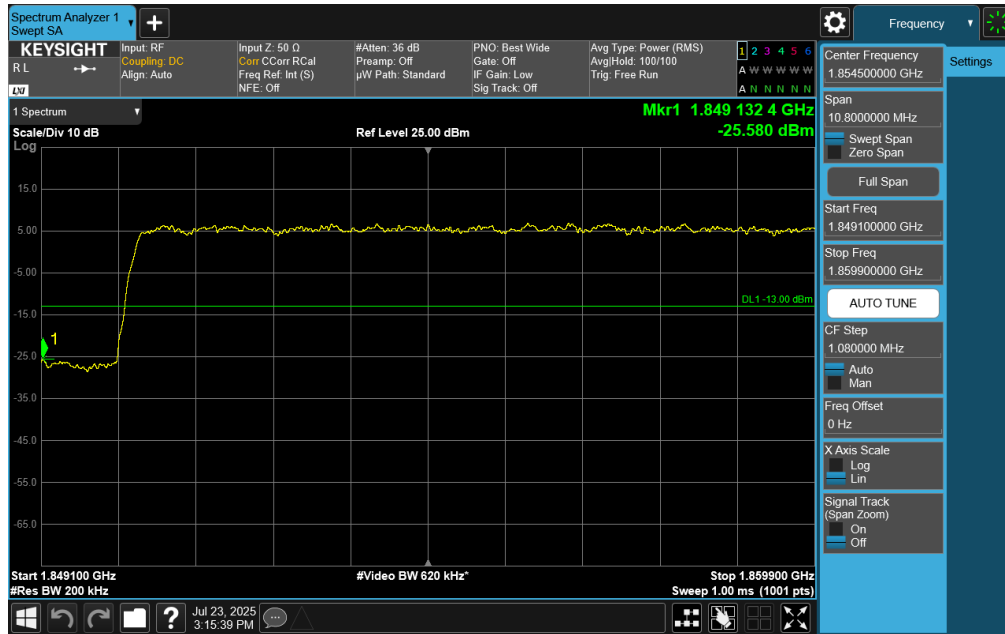
Plot 7-121. Upper Band Edge Plot (NR Band n2 – 15MHz DF-OFDM QPSK – Full RB Configuration)



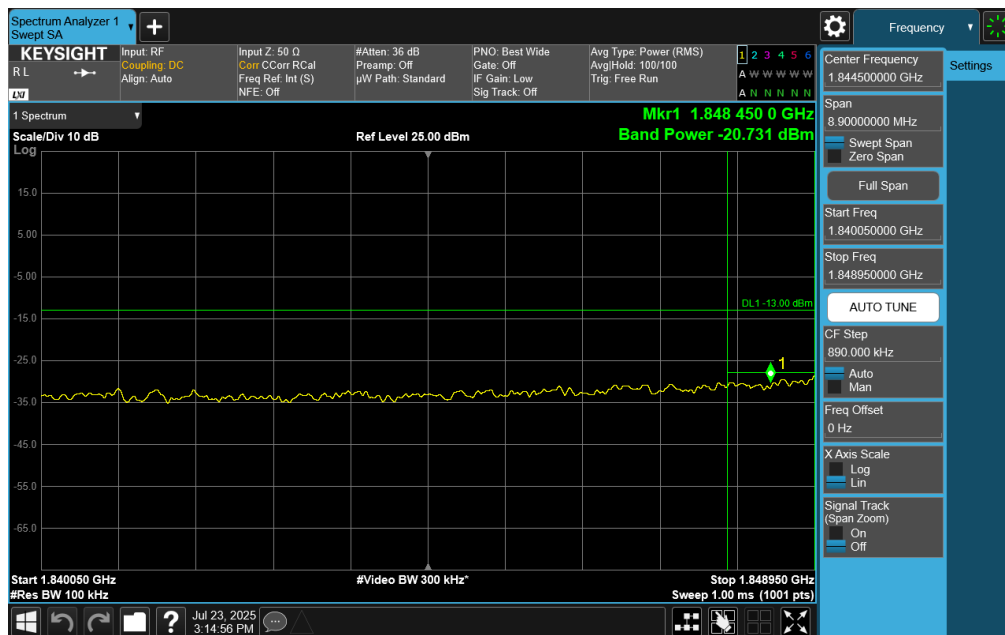
Plot 7-122. Extended Upper Band Edge Plot (NR Band n2 – 15MHz DF-OFDM QPSK – Full RB Configuration)

FCC ID: BCG-A3337	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 80 of 130

V2.2 09/07/2023



Plot 7-123. Lower Band Edge Plot (NR Band n2 – 20MHz DF-OFDM QPSK – Full RB Configuration)

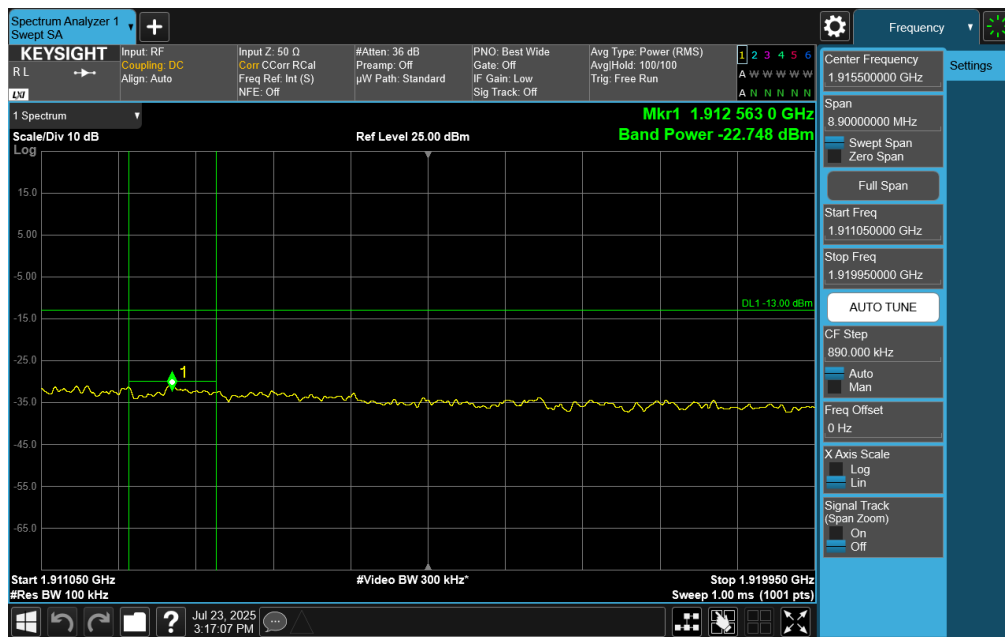
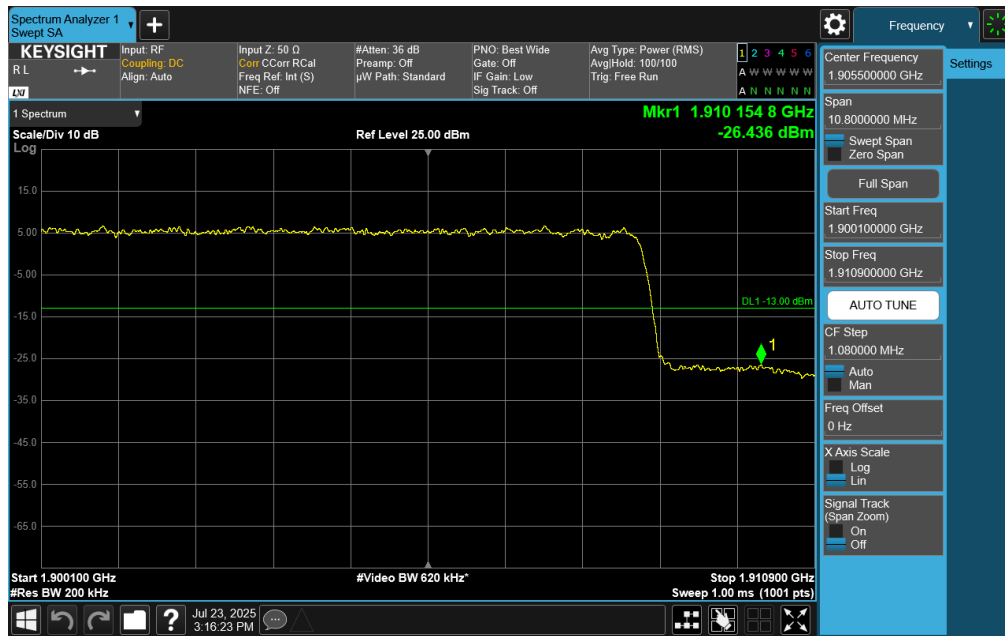


Plot 7-124. Extended Lower Band Edge Plot (NR Band n2 – 20MHz DF-OFDM QPSK – Full RB Configuration)

FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 81 of 130

V2.2 09/07/2023

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FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 82 of 130

V2.2 09/07/2023

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7.5 Peak-Average Ratio

§24.232(d)

Test Overview and Limit

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 equipment shall not exceed 13 dB for more than 0.1% of the time.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW ≥ 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

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 83 of 130

V2.2 09/07/2023

Test Setup

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

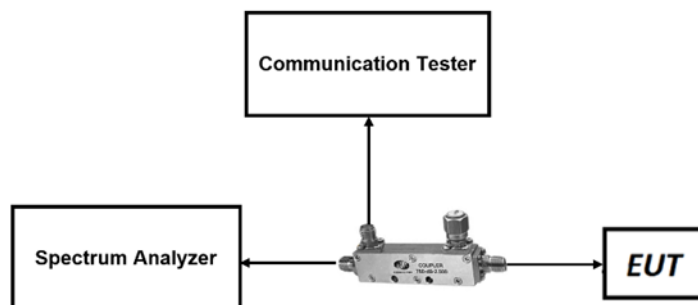


Figure 7-7. LTE Test Instrument & Measurement Setup

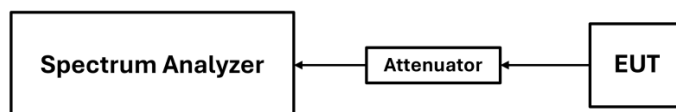


Figure 7-8. FR1 Test Instrument & Measurement Setup

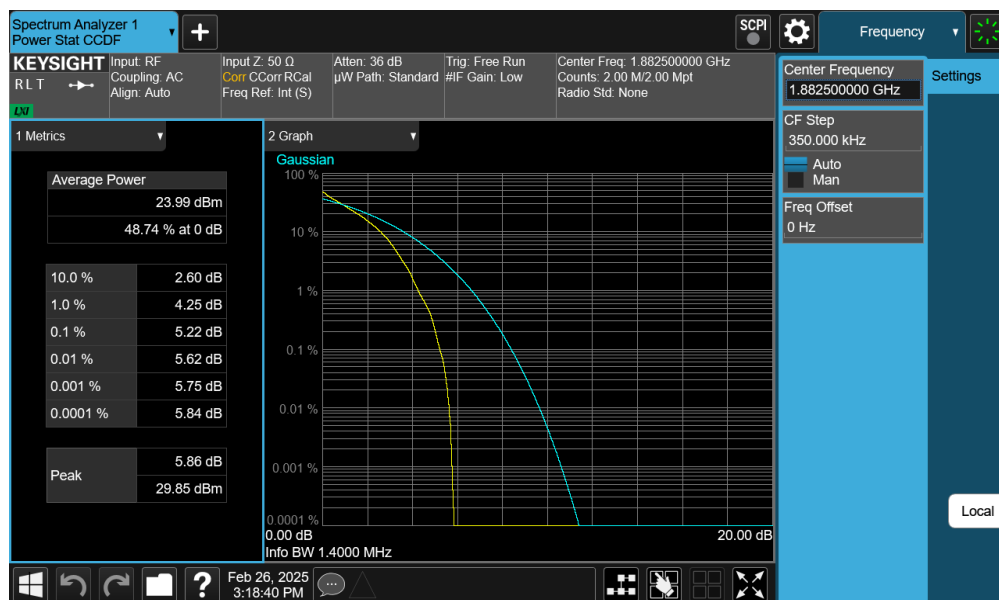
Test Notes

1. 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.

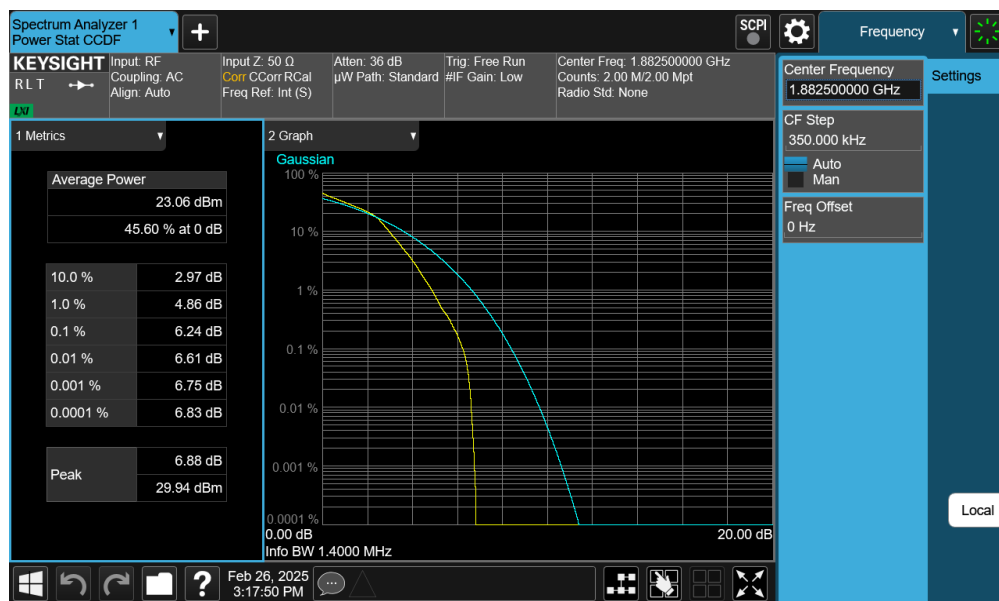
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 84 of 130

V2.2 09/07/2023

LTE Band 25



Plot 7-127. PAR Plot (LTE Band 25 - 1.4MHz QPSK - Full RB Configuration)

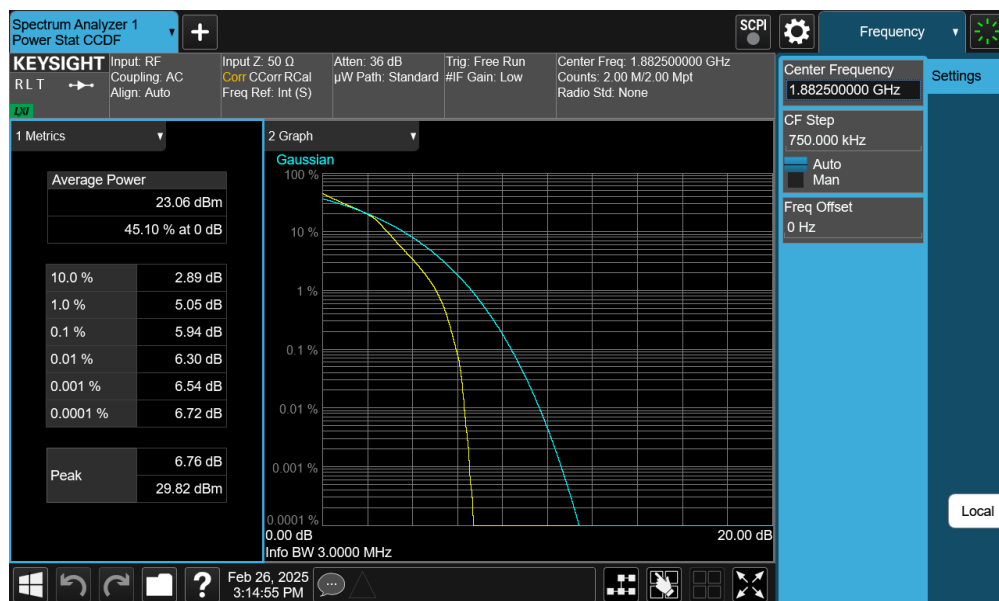
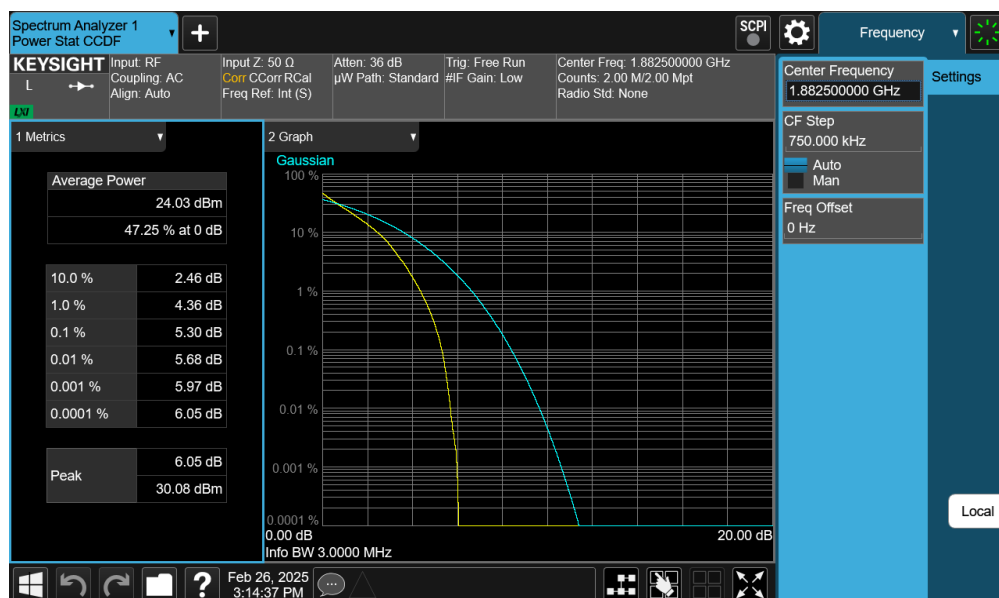


Plot 7-128. PAR Plot (LTE Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 85 of 130

V2.2 09/07/2023

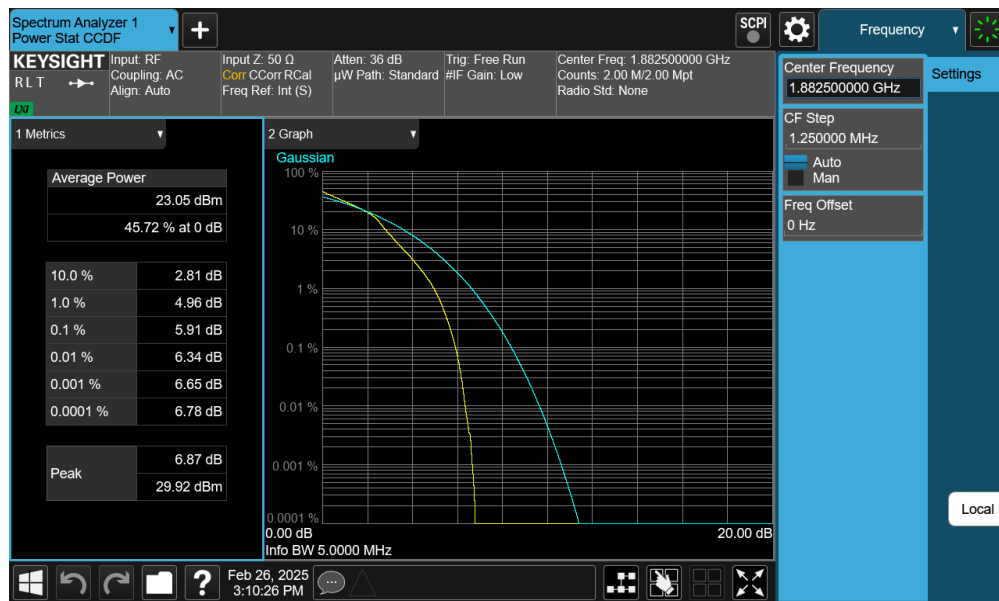
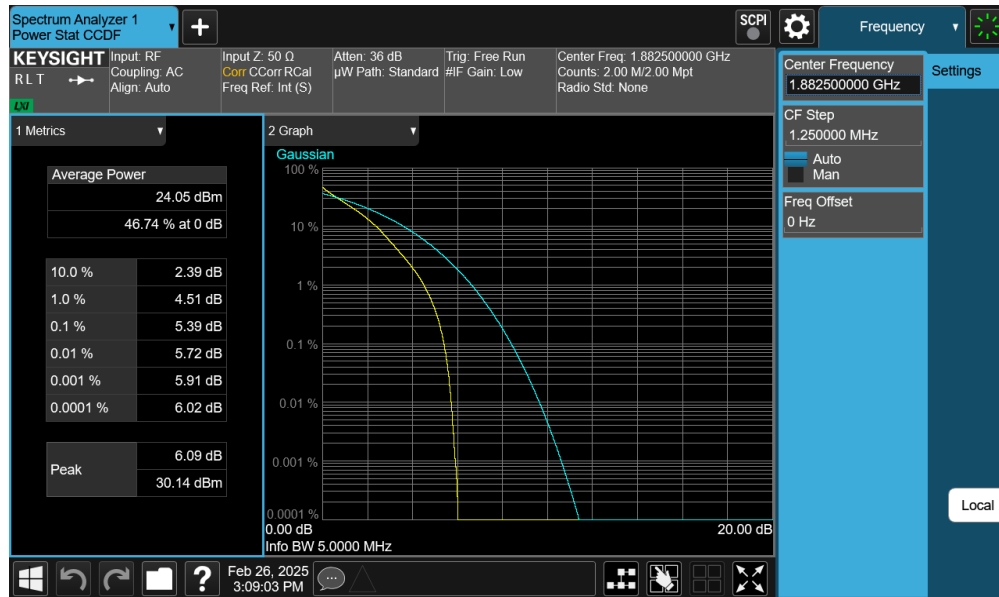
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FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 86 of 130

V2.2 09/07/2023

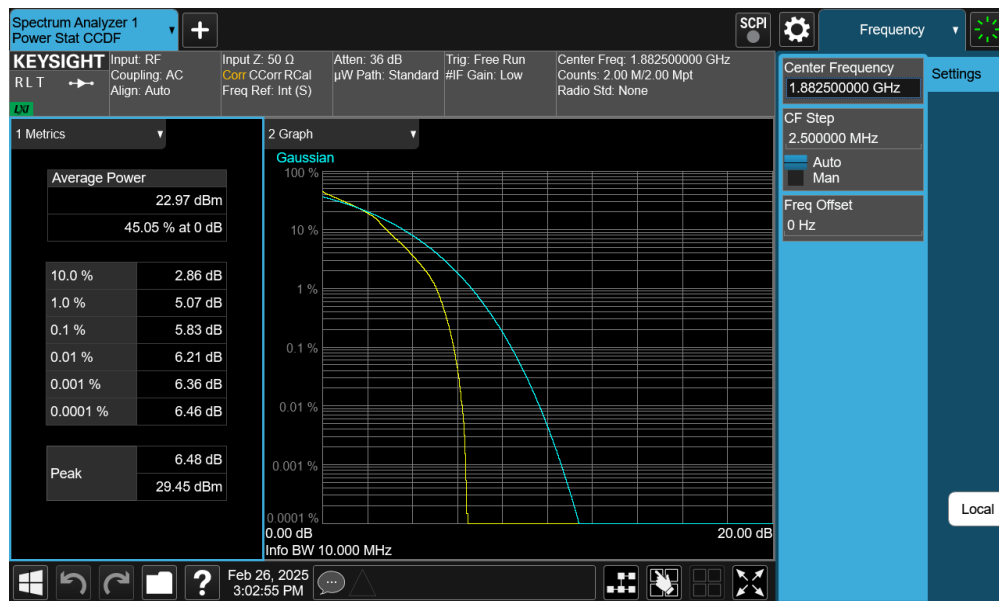
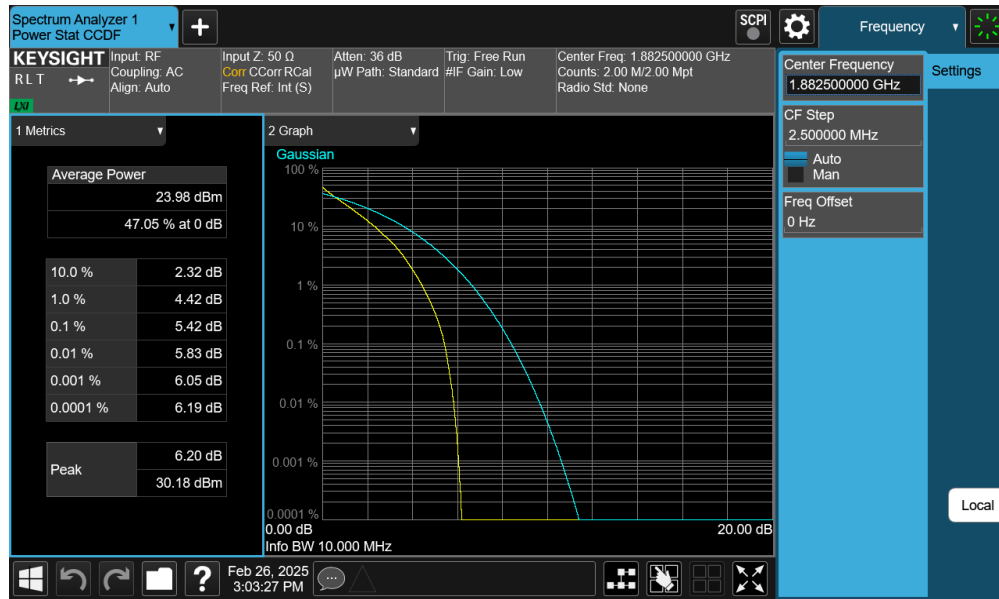
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FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 87 of 130

V2.2 09/07/2023

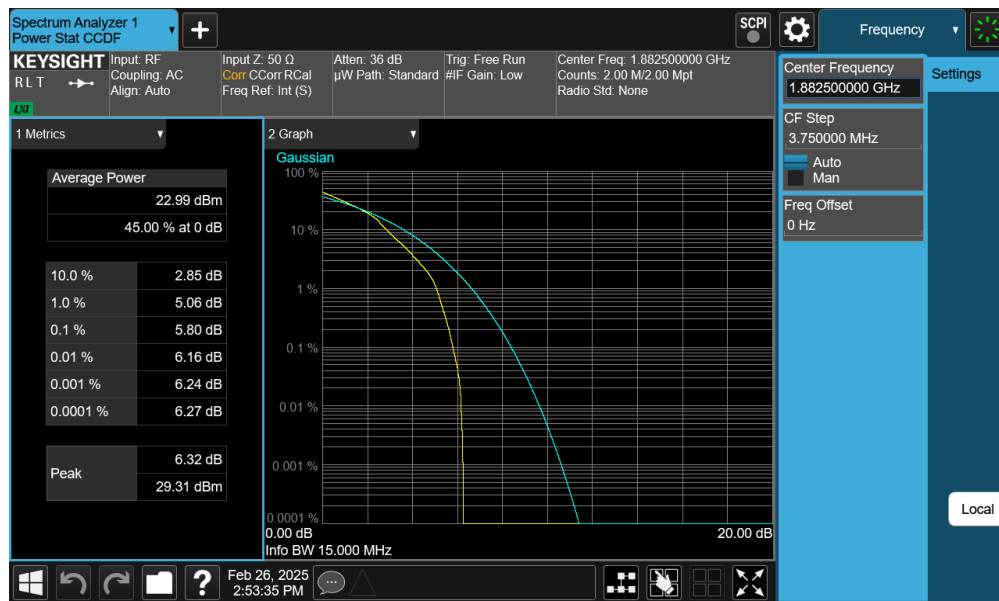
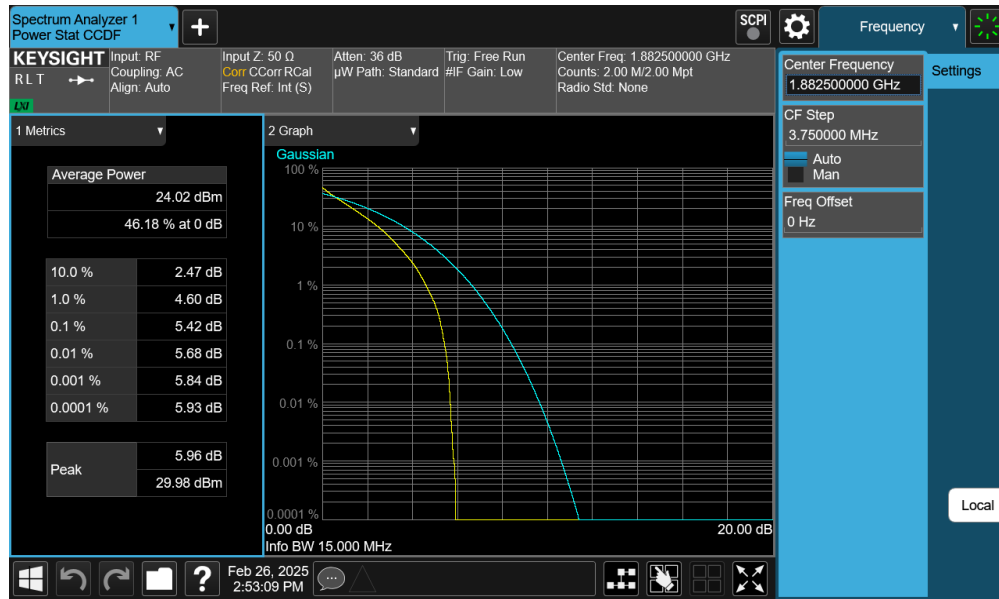
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FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 88 of 130

V2.2 09/07/2023

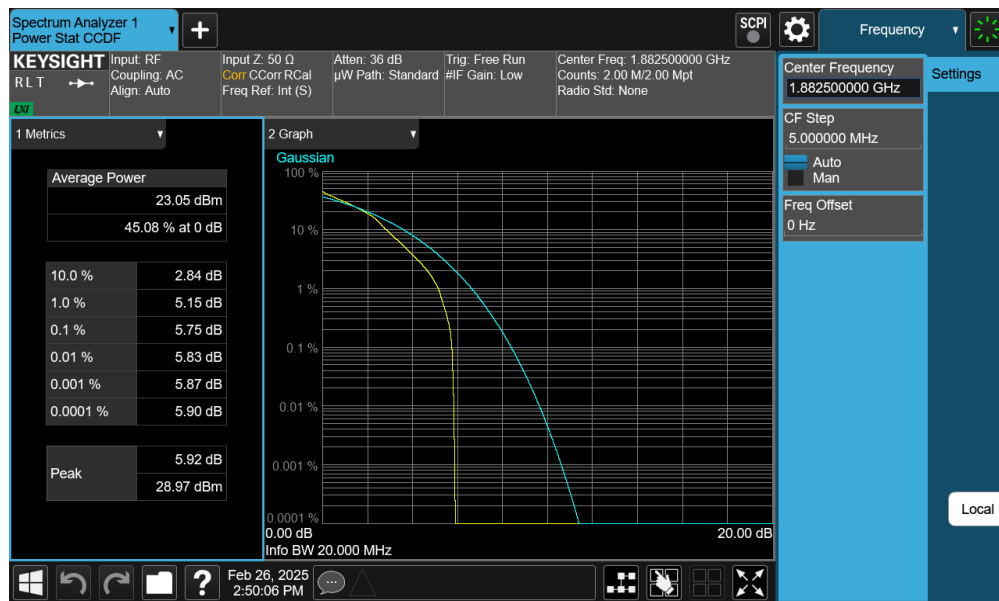
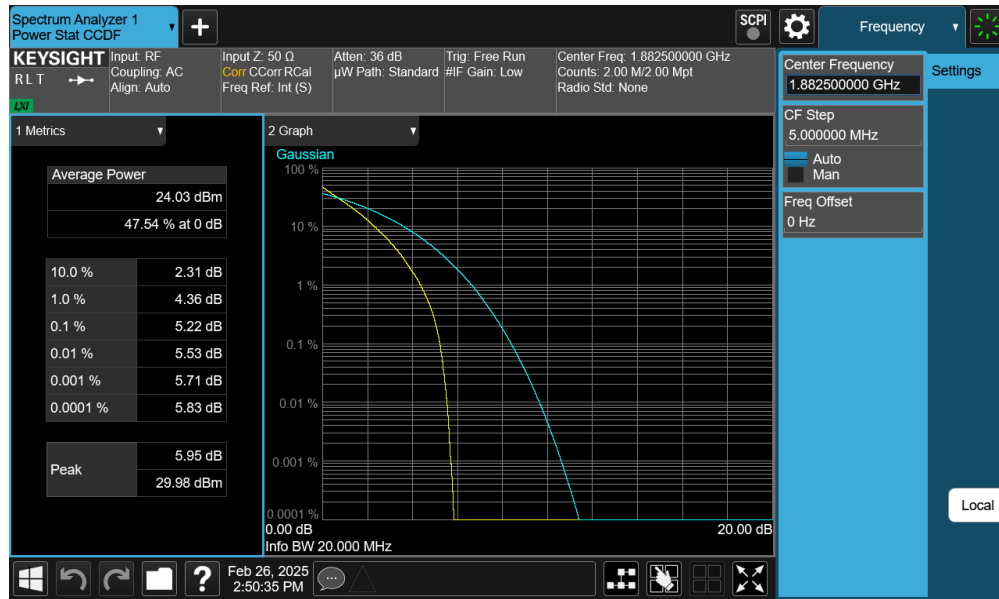
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FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 89 of 130

V2.2 09/07/2023

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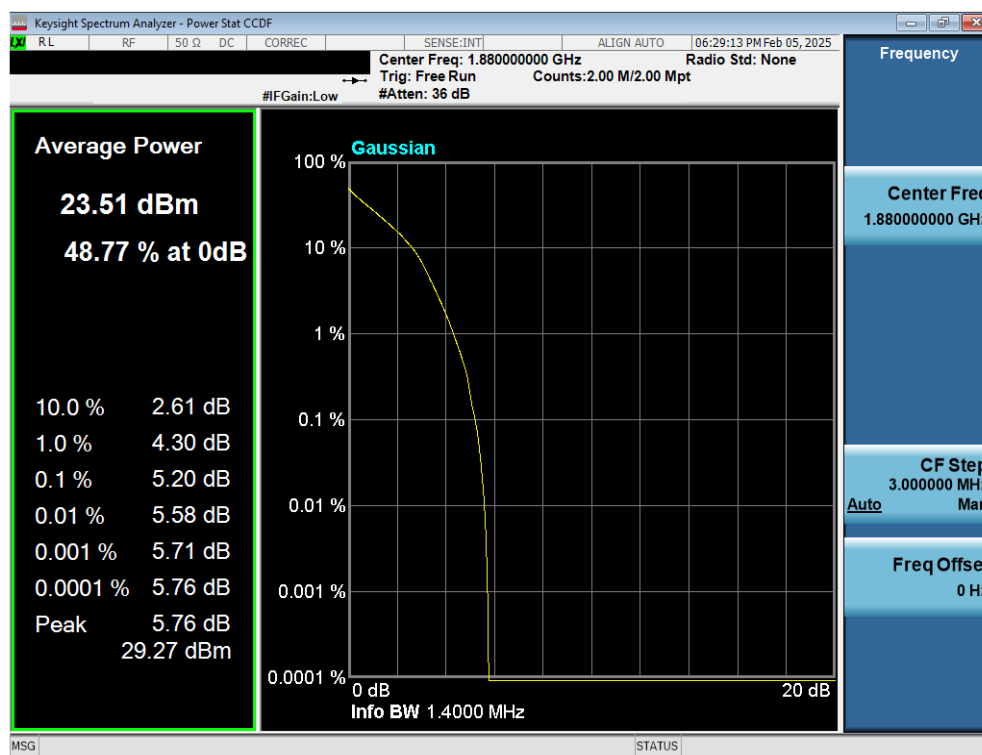


FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 90 of 130

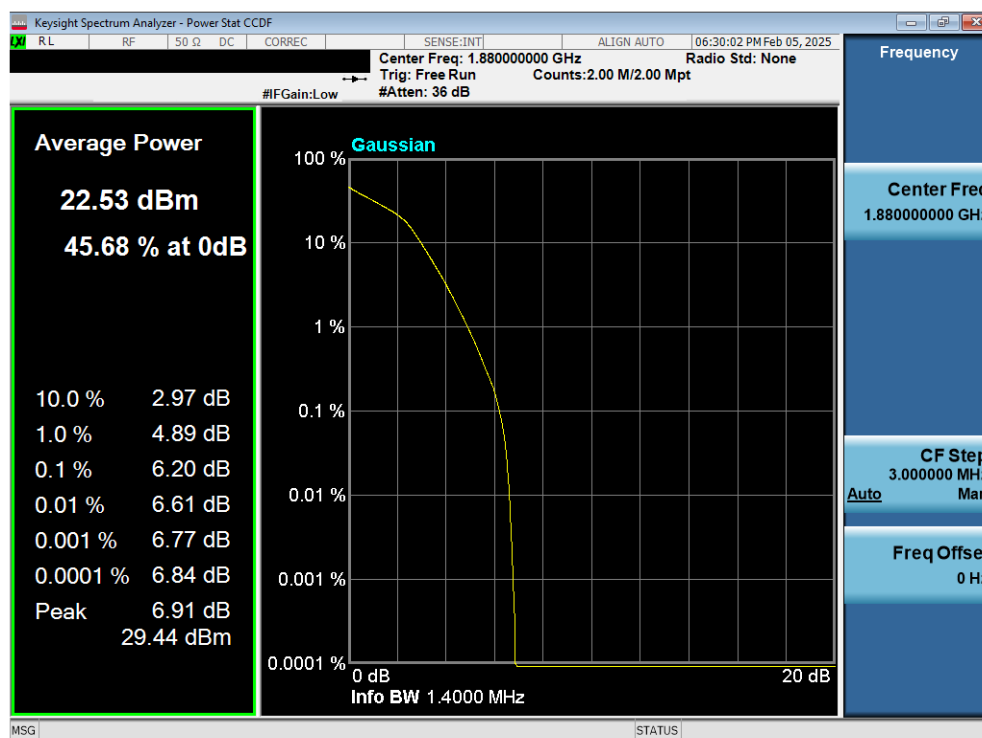
V2.2 09/07/2023

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LTE Band 2



Plot 7-139. PAR Plot (LTE Band 2 - 1.4MHz QPSK - Full RB Configuration)

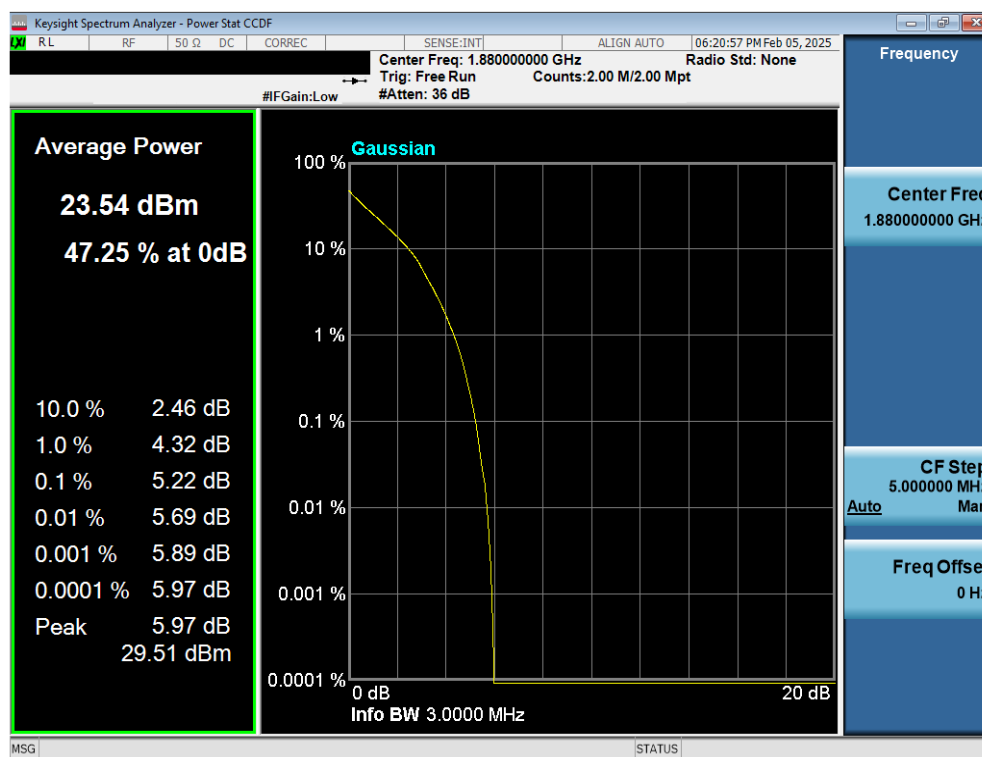


Plot 7-140. PAR Plot (LTE Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

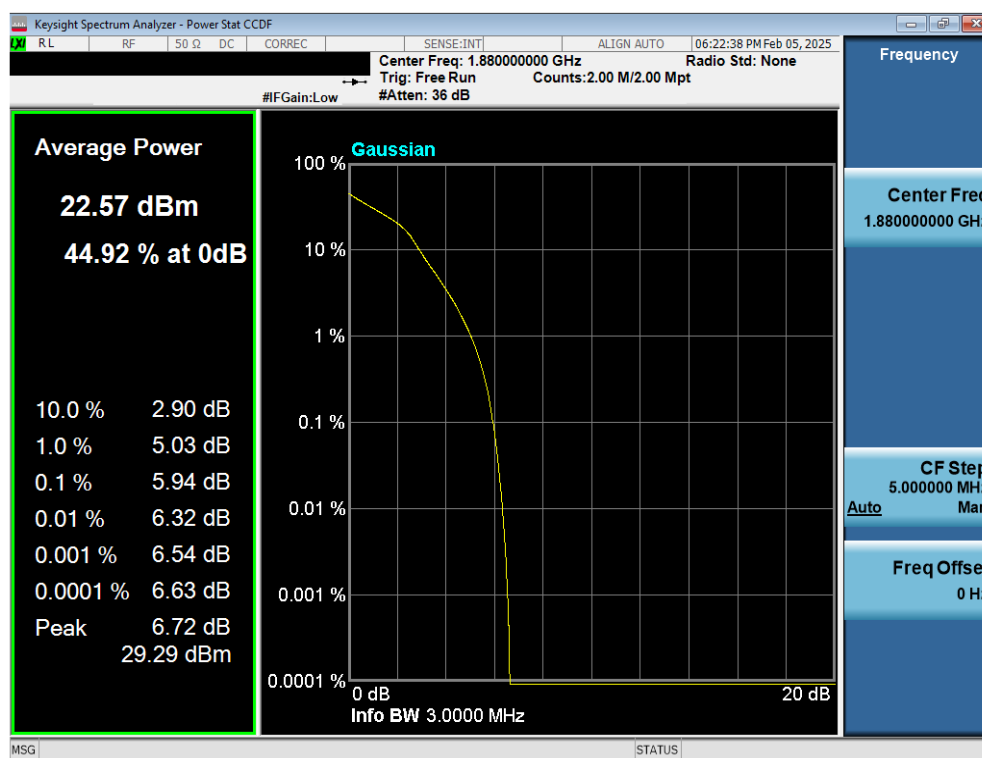
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 91 of 130

V2.2 09/07/2023

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Plot 7-141. PAR Plot (LTE Band 2 - 3MHz QPSK - Full RB Configuration)

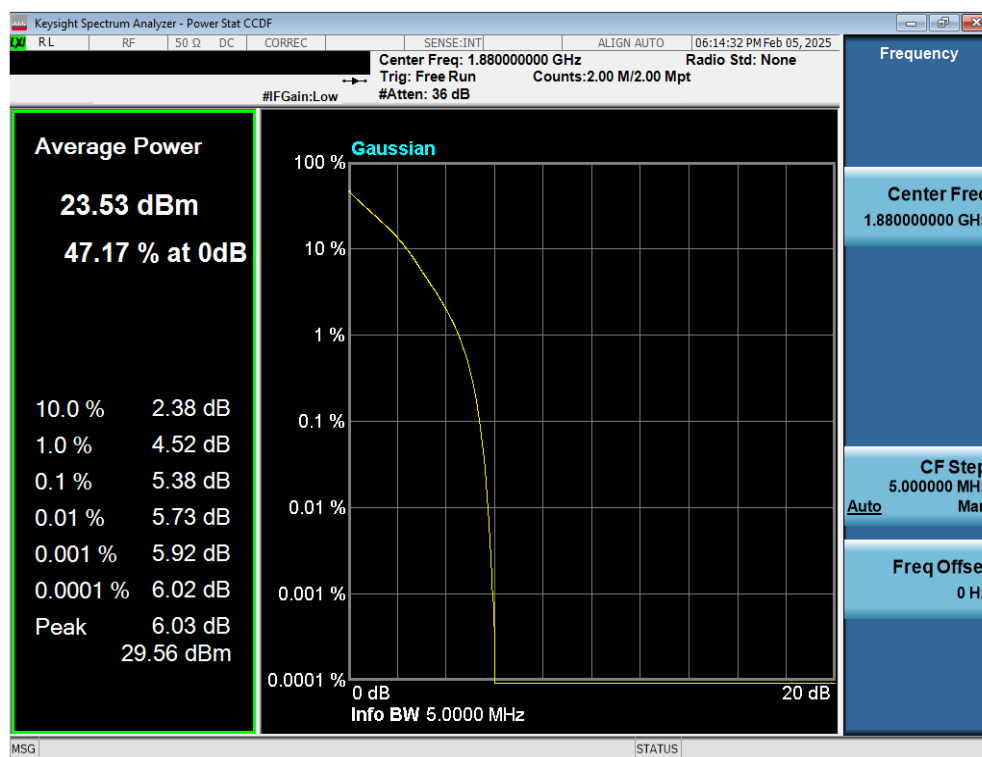


Plot 7-142. PAR Plot (LTE Band 2 - 3MHz 16-QAM - Full RB Configuration)

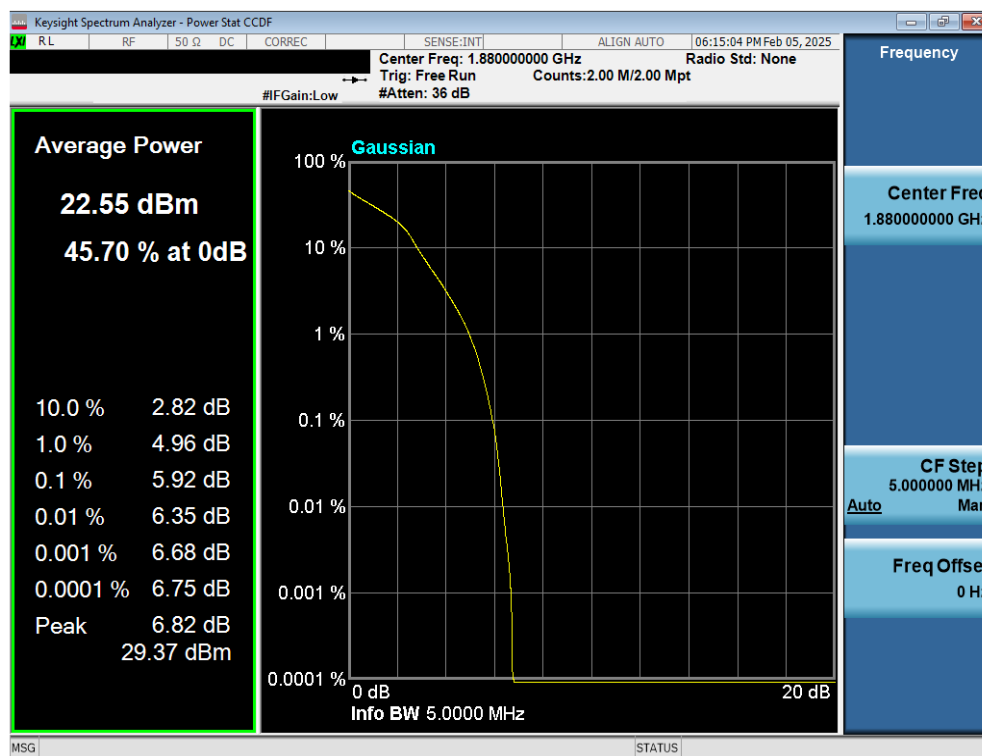
FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 92 of 130

V2.2 09/07/2023

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Plot 7-143. PAR Plot (LTE Band 2 - 5MHz QPSK - Full RB Configuration)

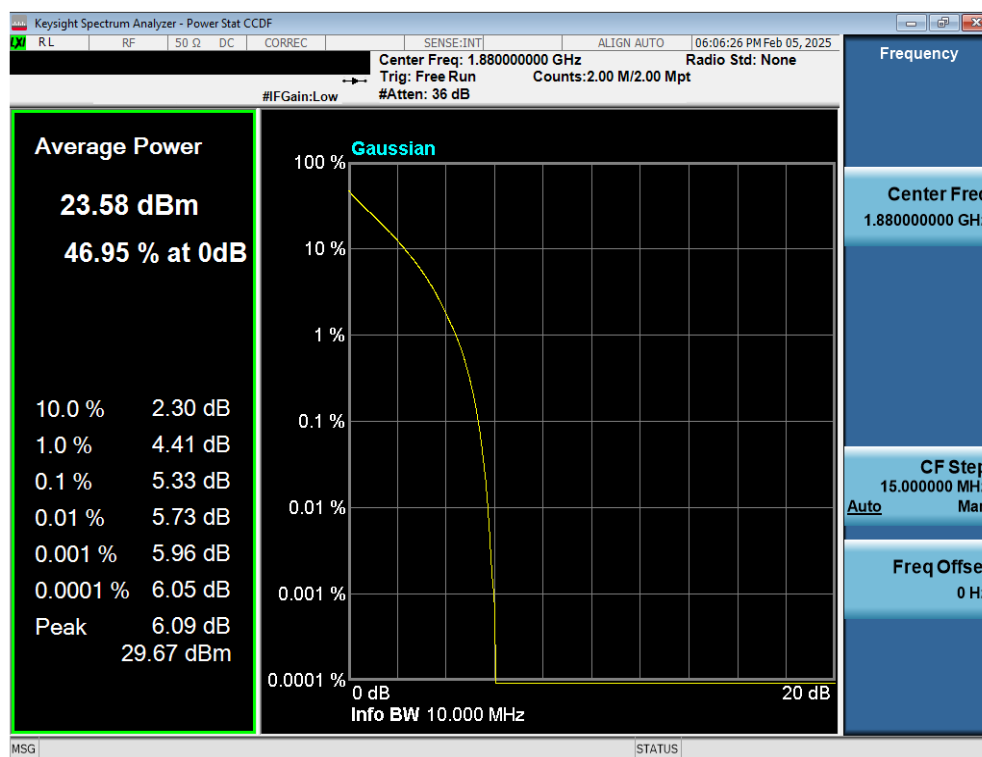


Plot 7-144. PAR Plot (LTE Band 2 - 5MHz 16-QAM - Full RB Configuration)

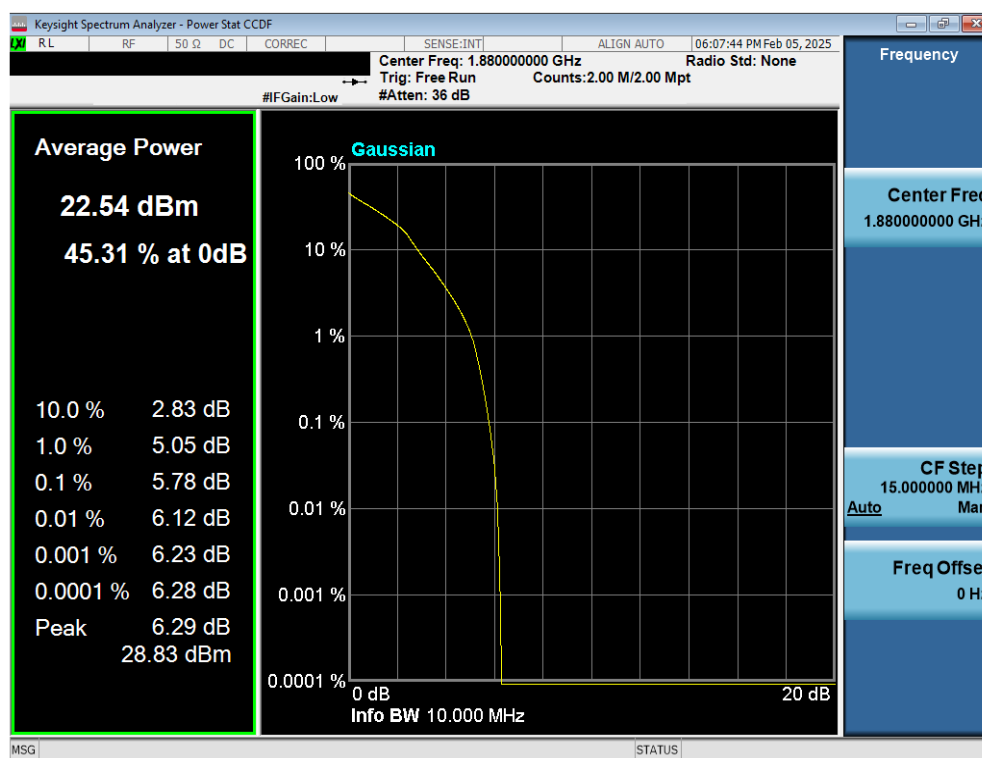
FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 93 of 130

V2.2 09/07/2023

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Plot 7-145. PAR Plot (LTE Band 2 - 10MHz QPSK - Full RB Configuration)

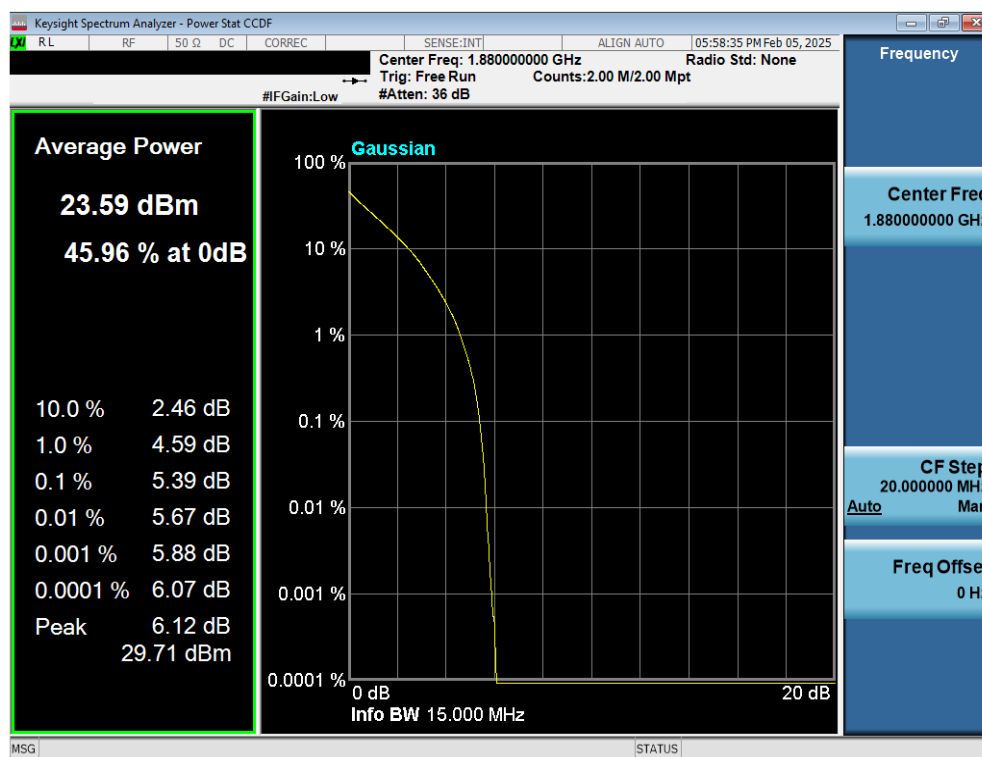


Plot 7-146. PAR Plot (LTE Band 2 - 10MHz 16-QAM - Full RB Configuration)

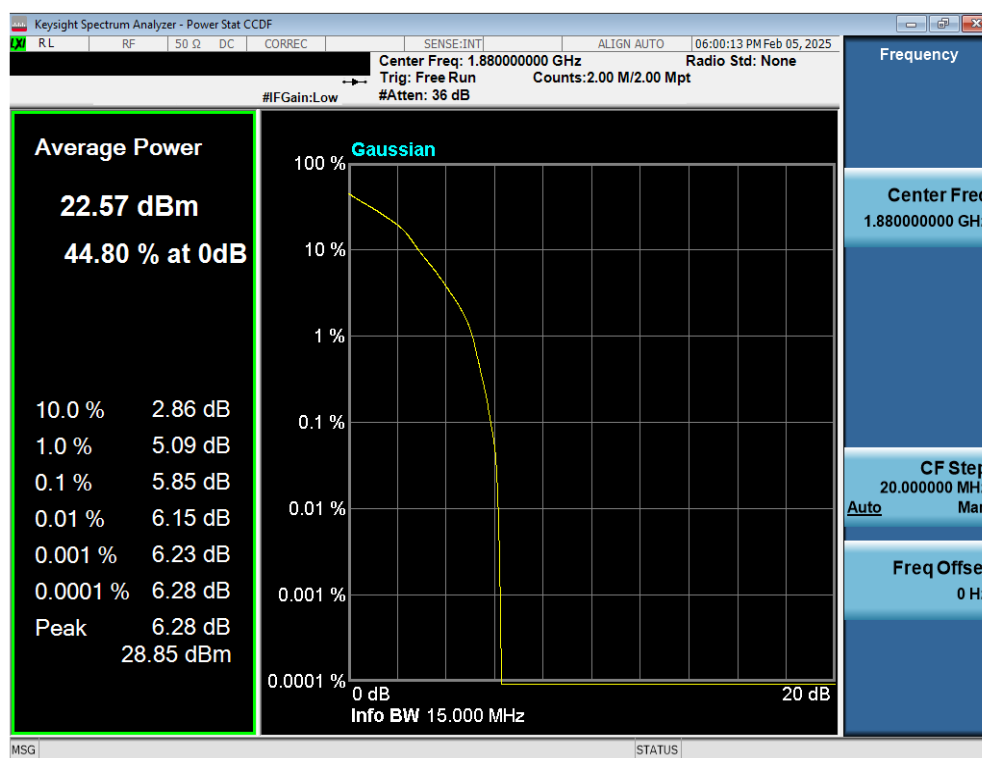
FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 94 of 130

V2.2 09/07/2023

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Plot 7-147. PAR Plot (LTE Band 2 - 15MHz QPSK - Full RB Configuration)

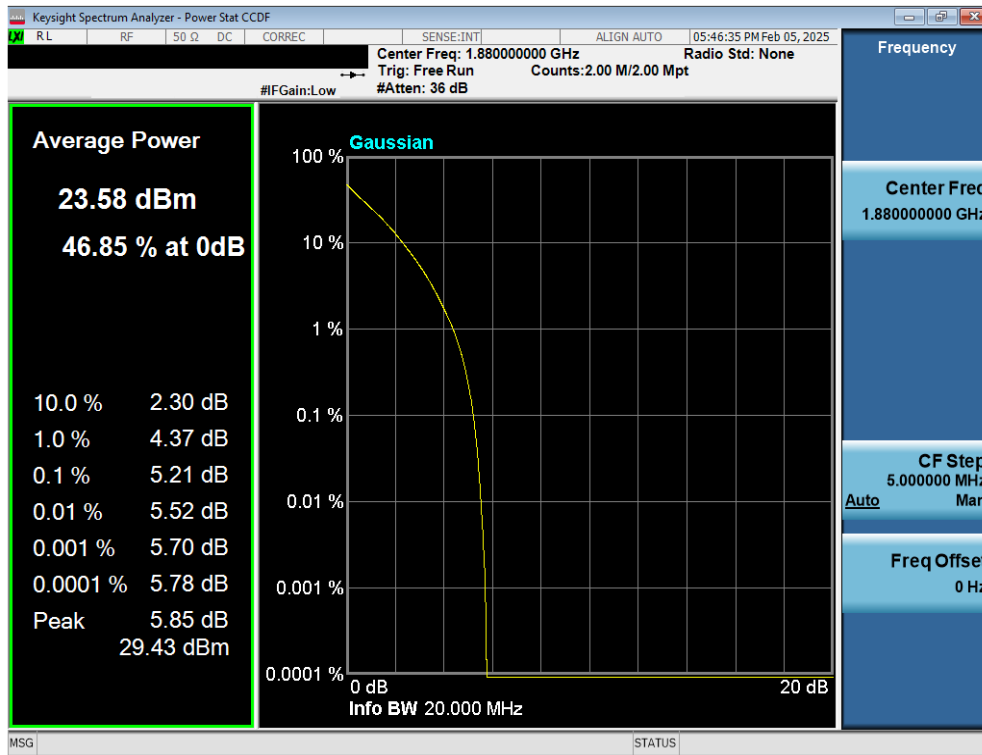


Plot 7-148. PAR Plot (LTE Band 2 - 15MHz 16-QAM - Full RB Configuration)

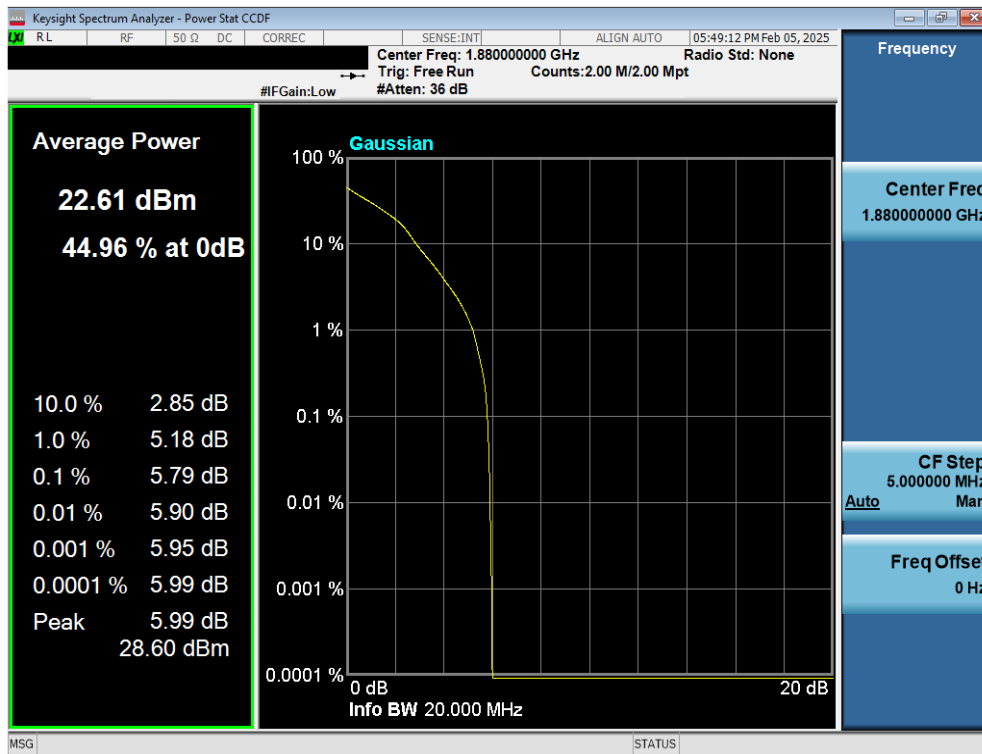
FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 95 of 130

V2.2 09/07/2023

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Plot 7-149. PAR Plot (LTE Band 2 - 20MHz QPSK - Full RB Configuration)

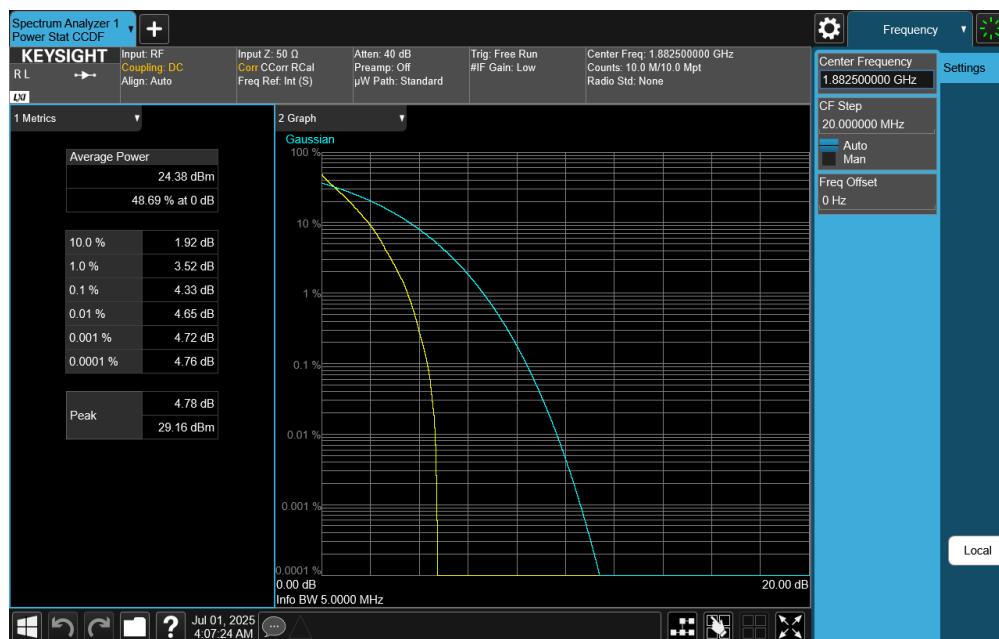


Plot 7-150. PAR Plot (LTE Band 2 - 20MHz 16-QAM - Full RB Configuration)

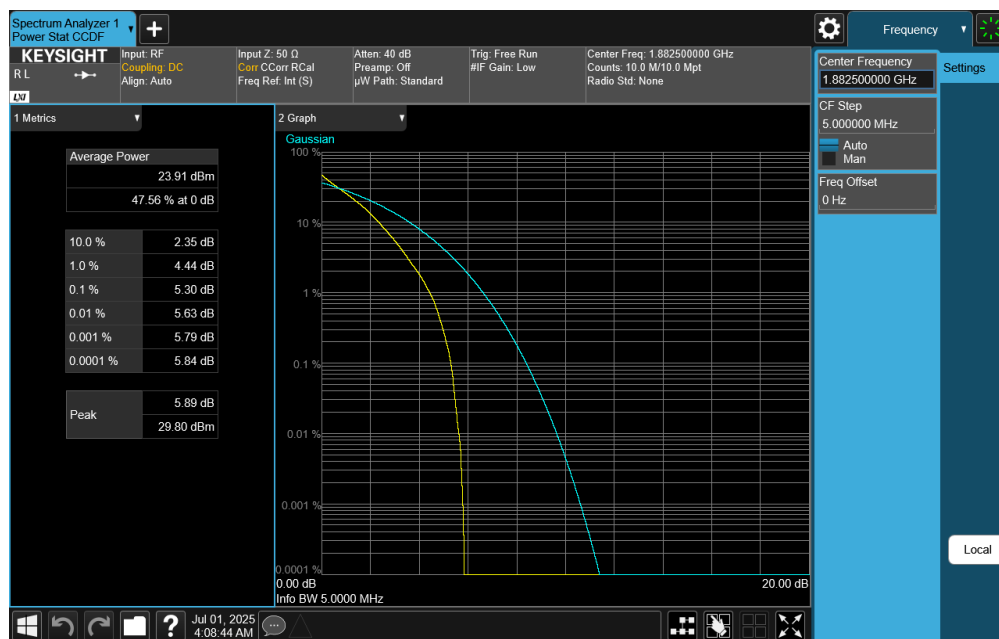
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 96 of 130

V2.2 09/07/2023

NR Band n25



Plot 7-151. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

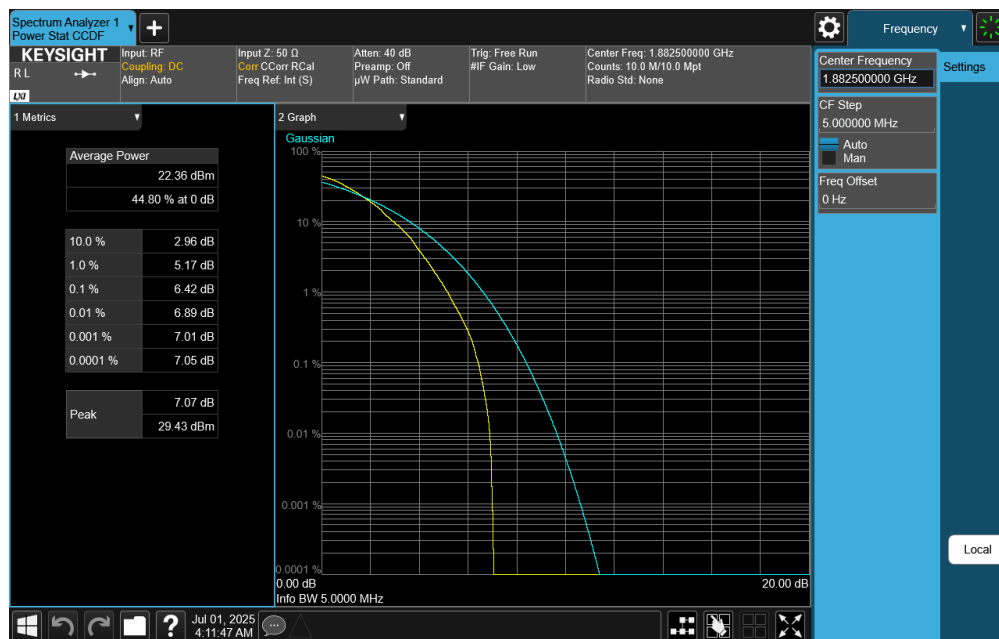
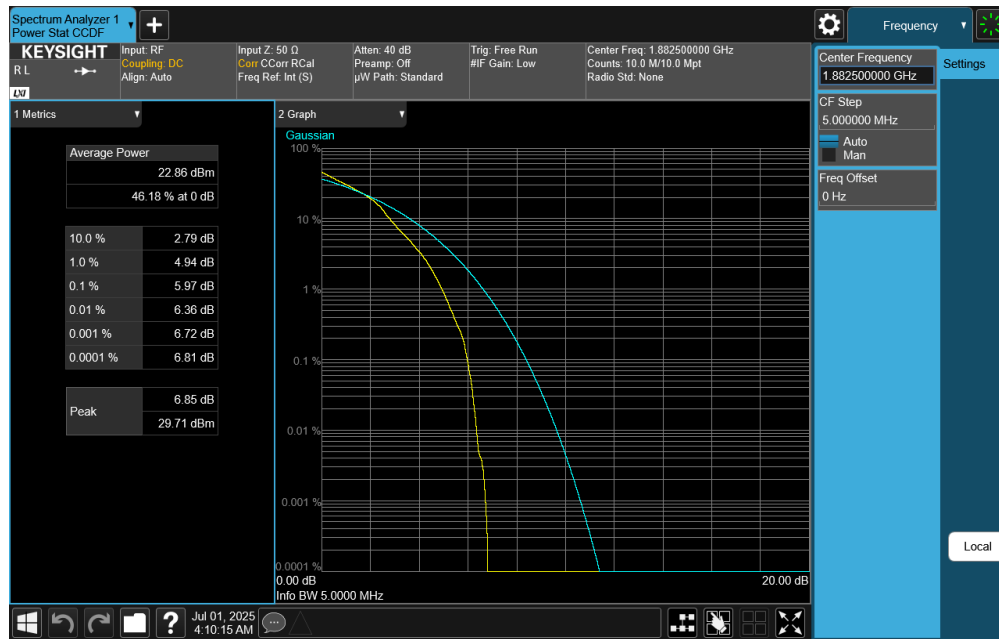


Plot 7-152. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 97 of 130

V2.2 09/07/2023

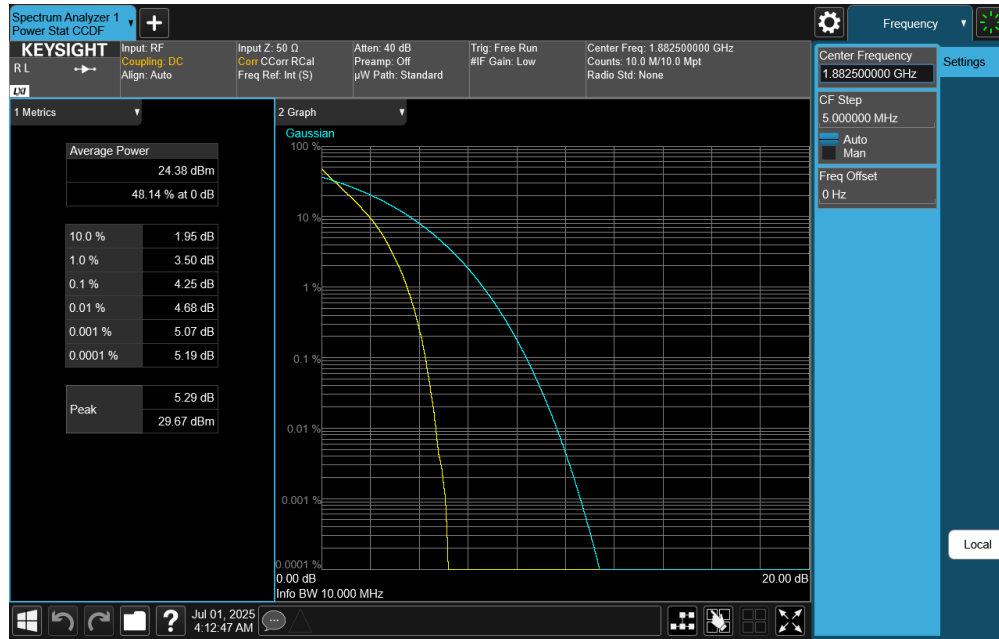
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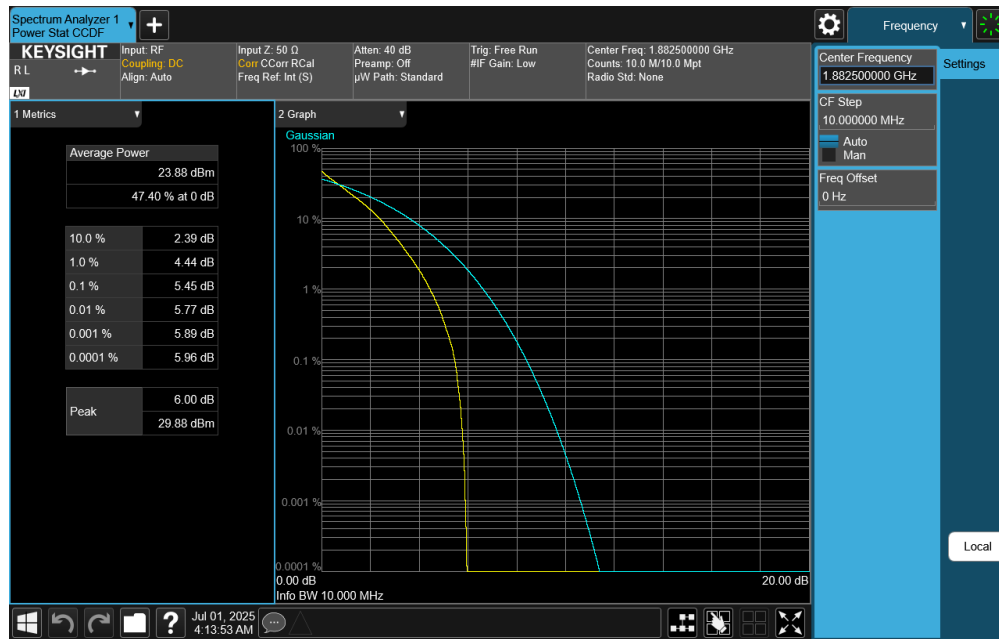
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 98 of 130

V2.2 09/07/2023

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Plot 7-155. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

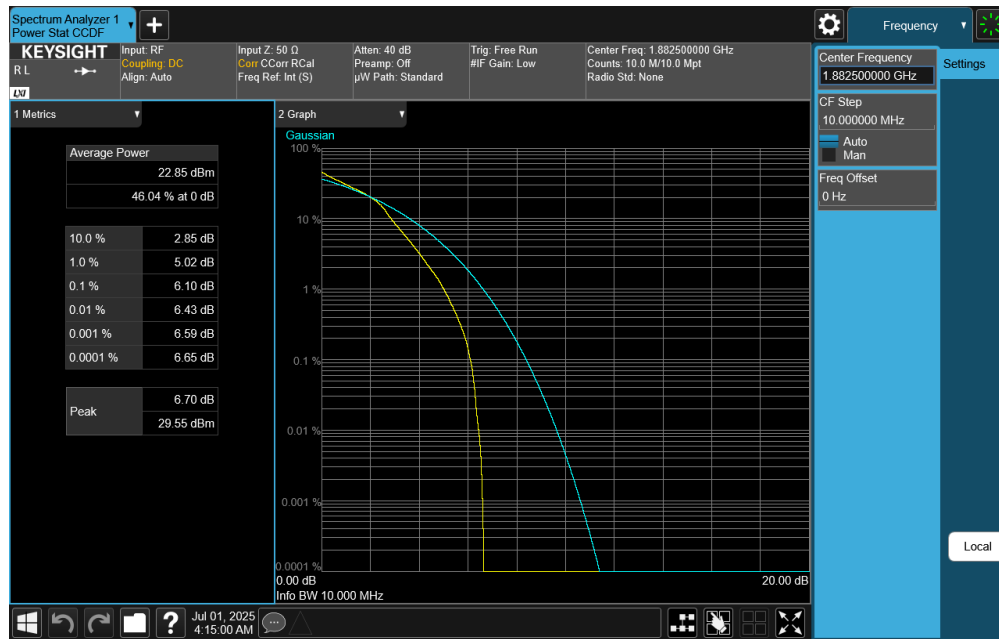


Plot 7-156. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

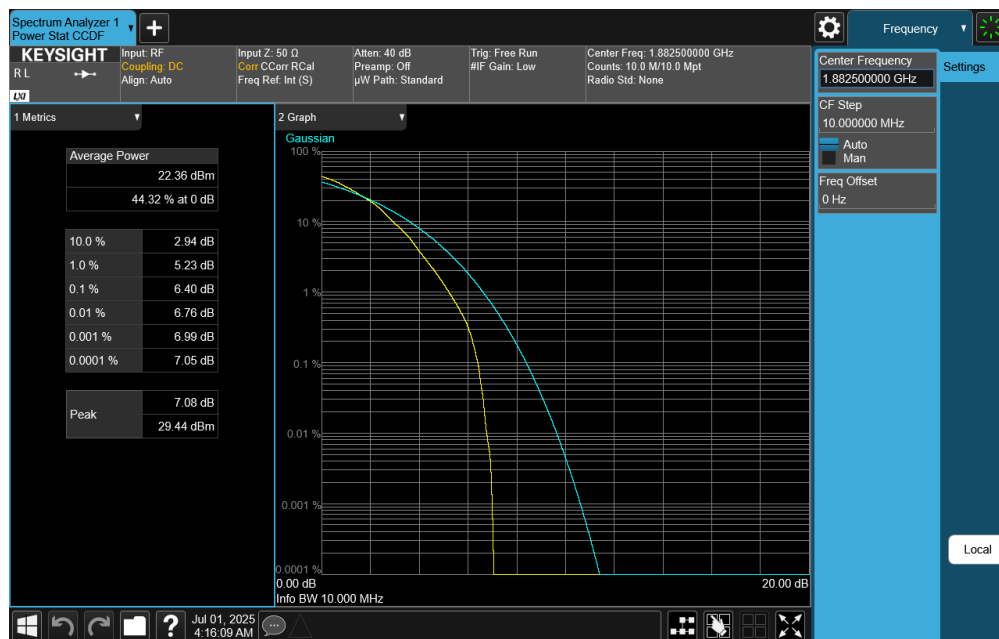
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 99 of 130

V2.2 09/07/2023

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Plot 7-157. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

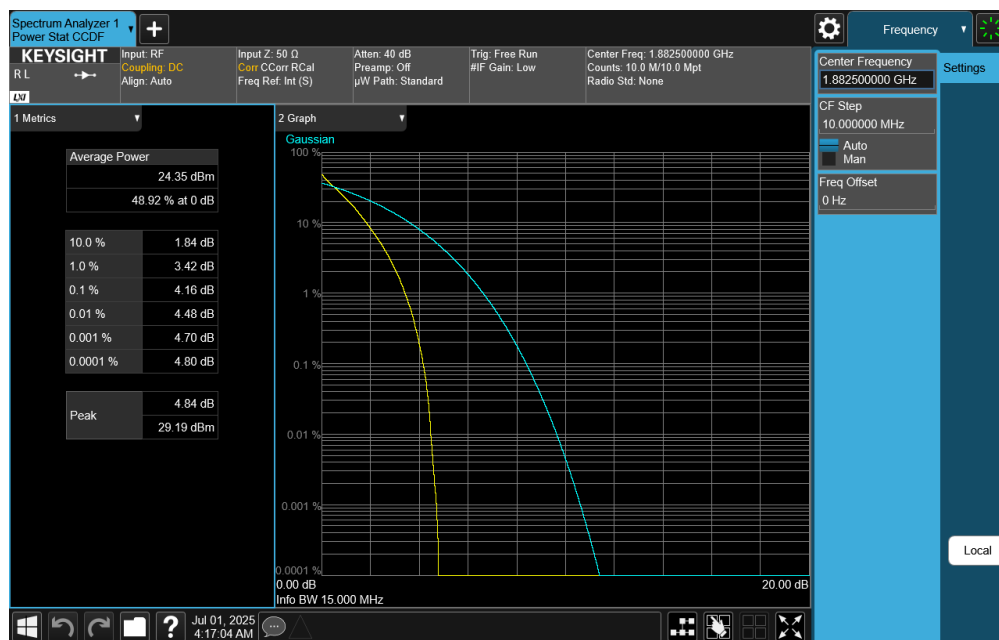


Plot 7-158. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

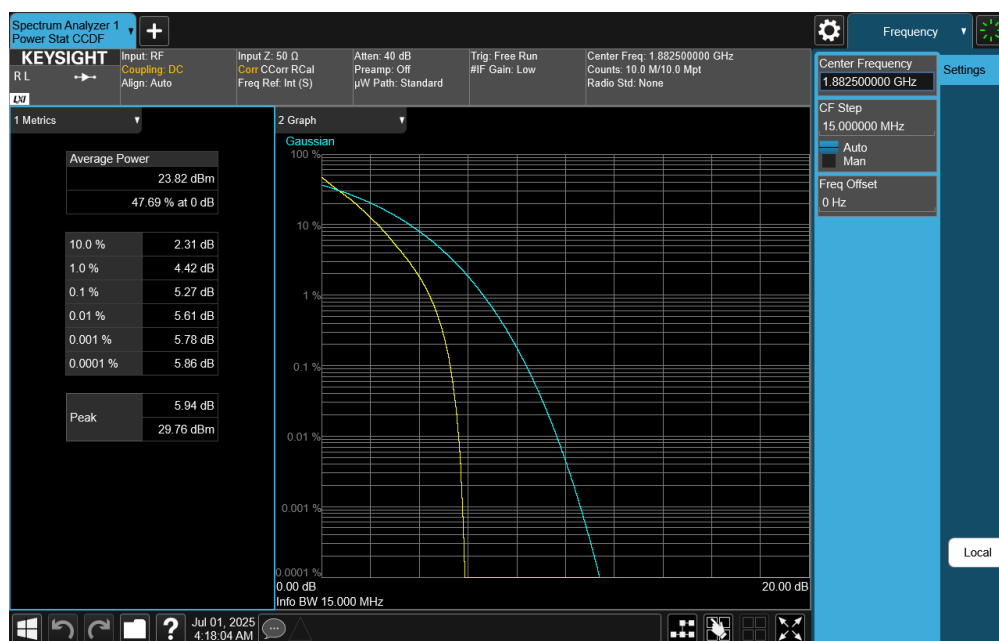
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 100 of 130

V2.2 09/07/2023

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Plot 7-159. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

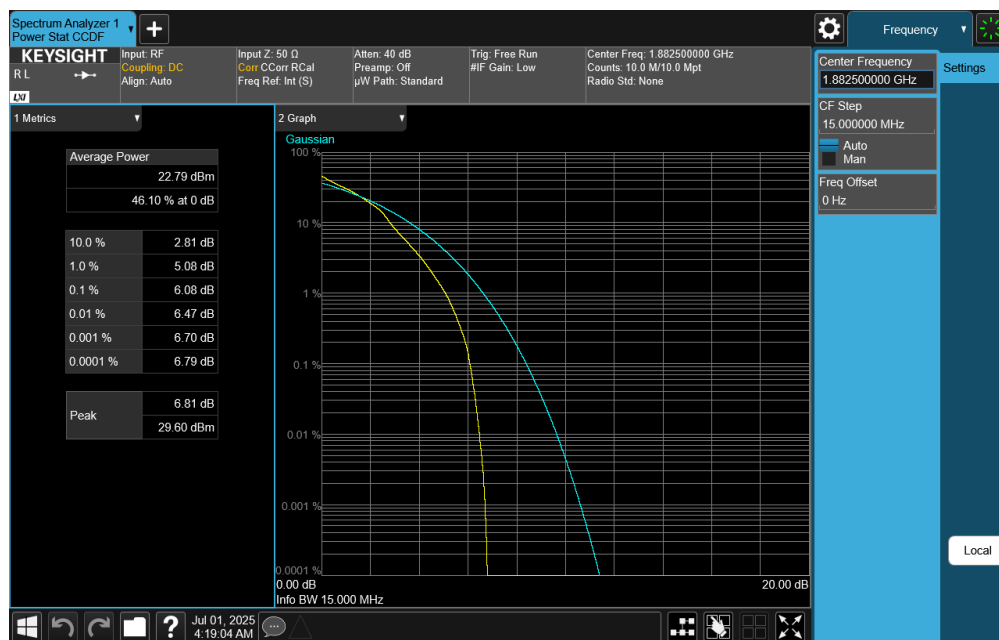


Plot 7-160. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

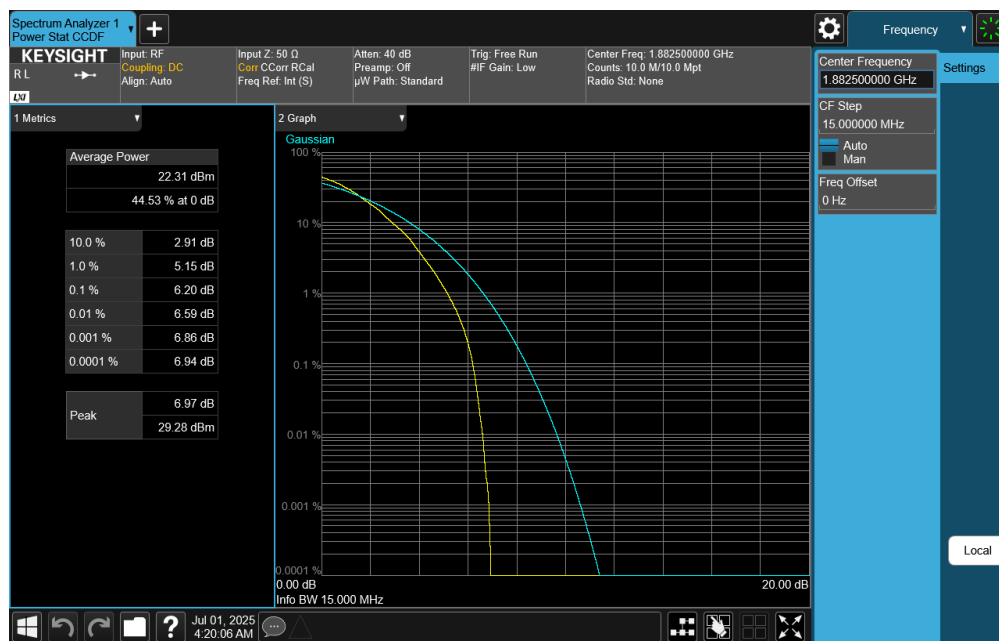
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 101 of 130

V2.2 09/07/2023

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Plot 7-161. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

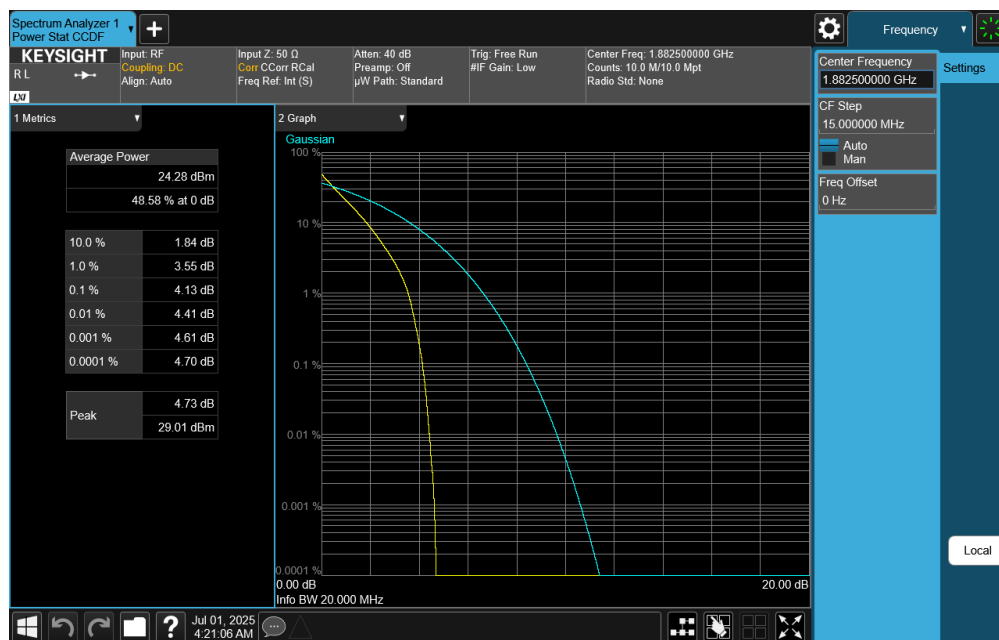


Plot 7-162. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

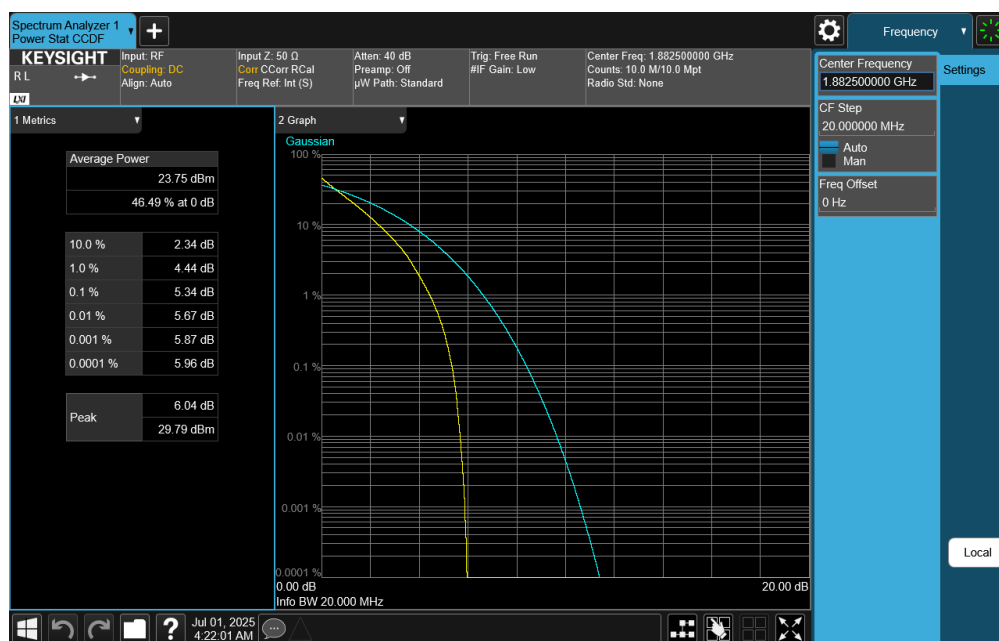
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 102 of 130

V2.2 09/07/2023

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Plot 7-163. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

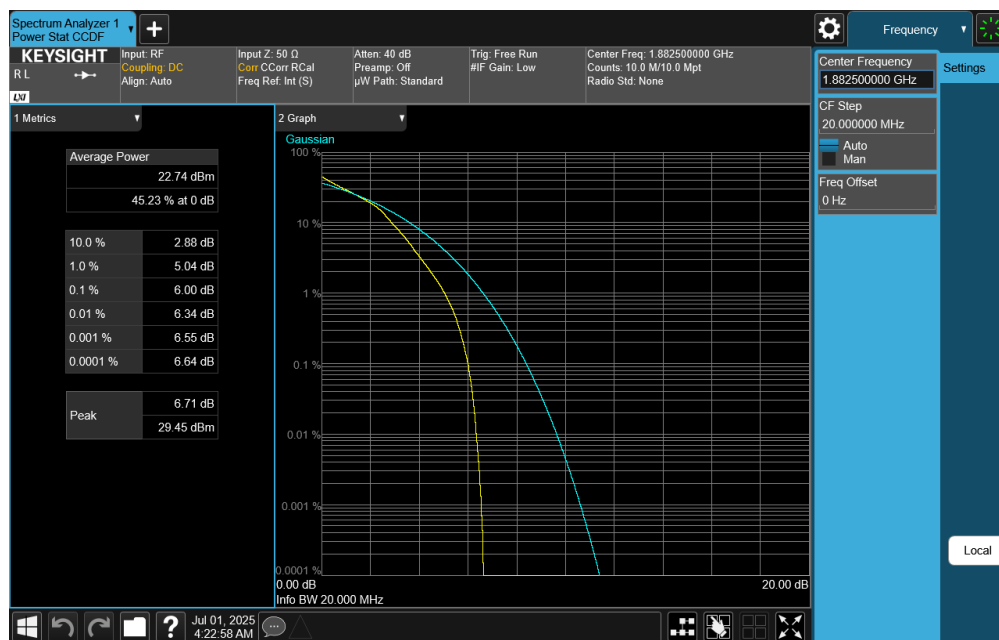


Plot 7-164. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

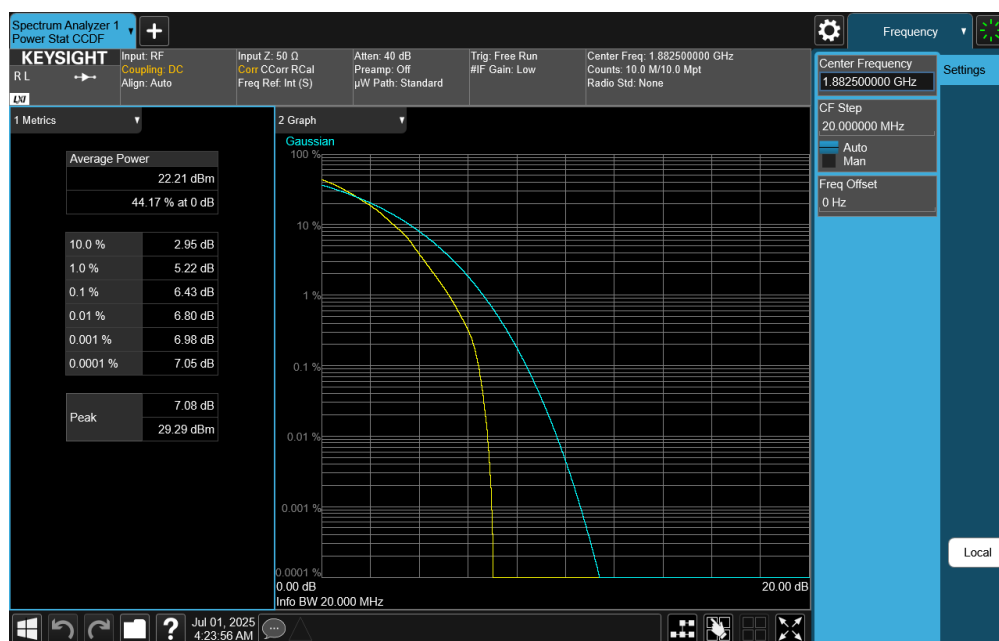
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 103 of 130

V2.2 09/07/2023

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Plot 7-165. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)



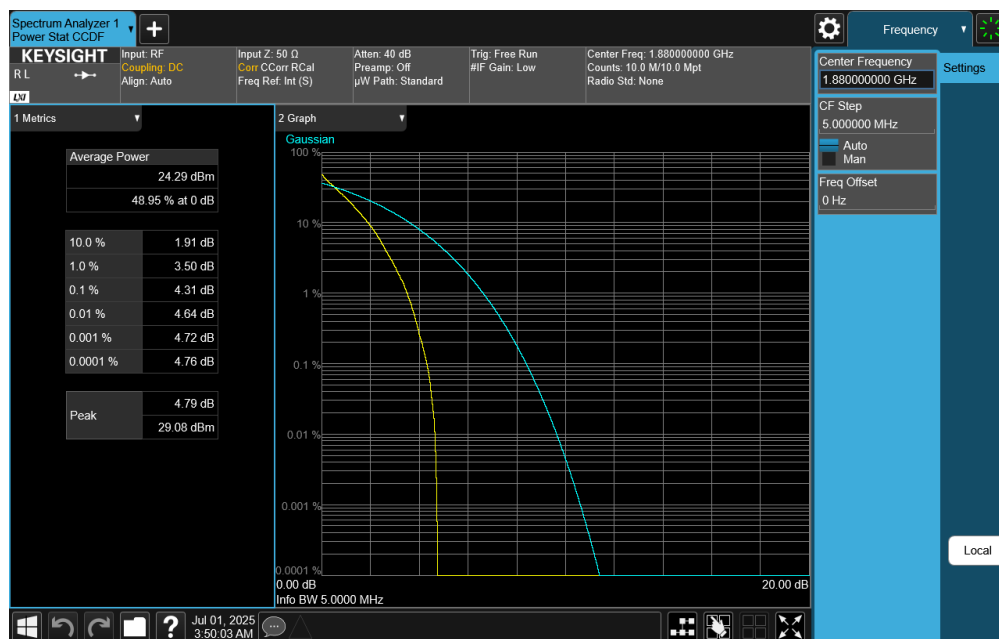
Plot 7-166. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 104 of 130

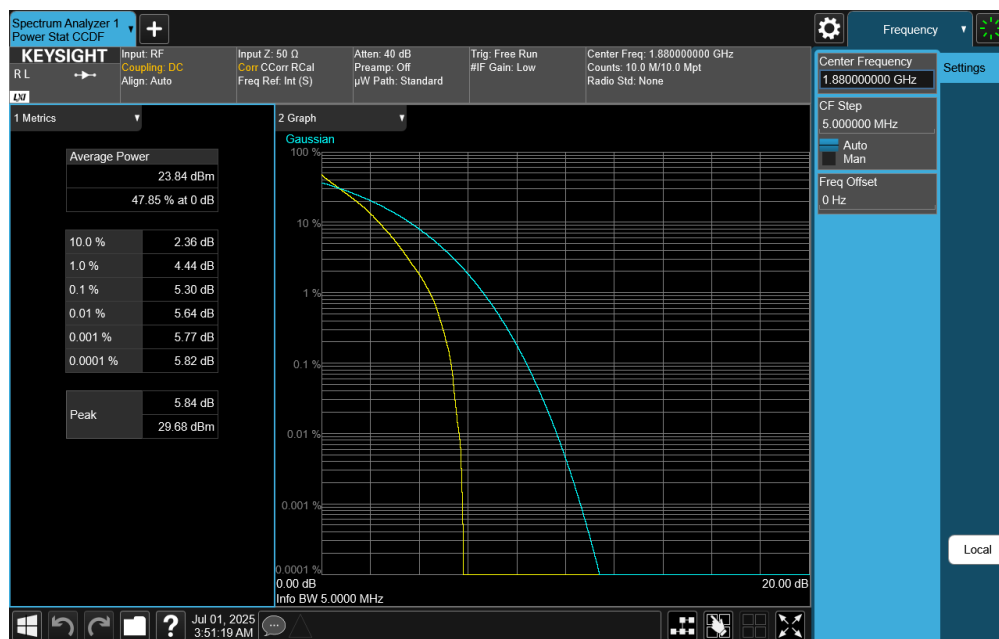
V2.2 09/07/2023

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NR Band n2



Plot 7-167. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

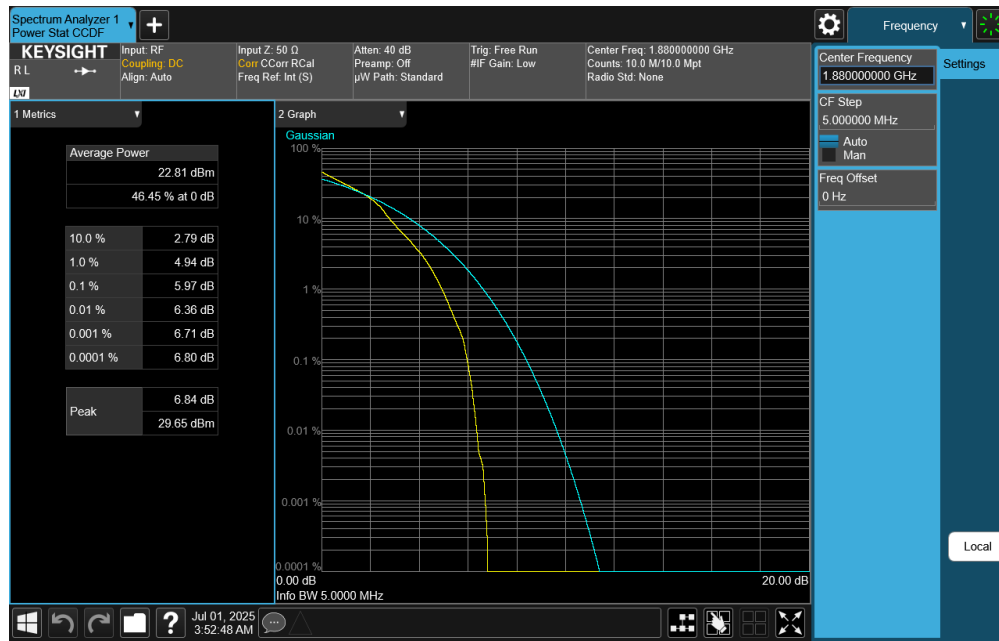


Plot 7-168. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

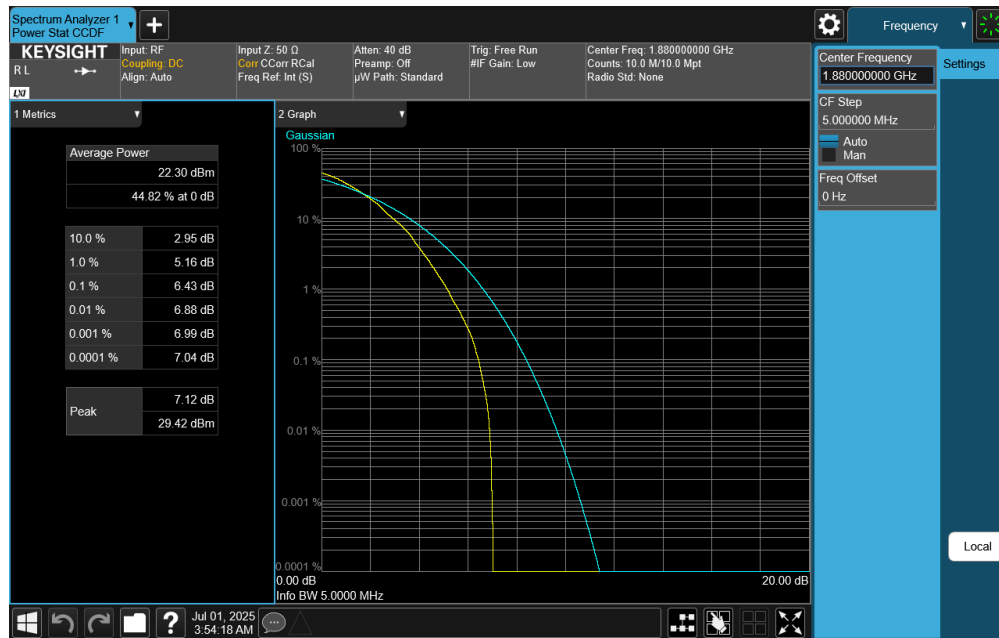
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 105 of 130

V2.2 09/07/2023

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Plot 7-169. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

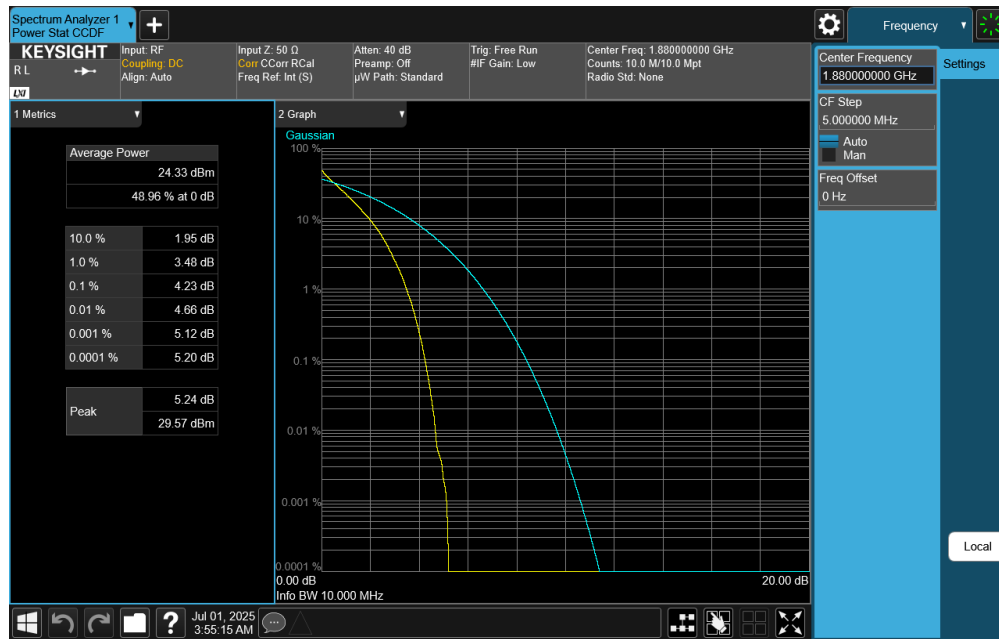


Plot 7-170. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

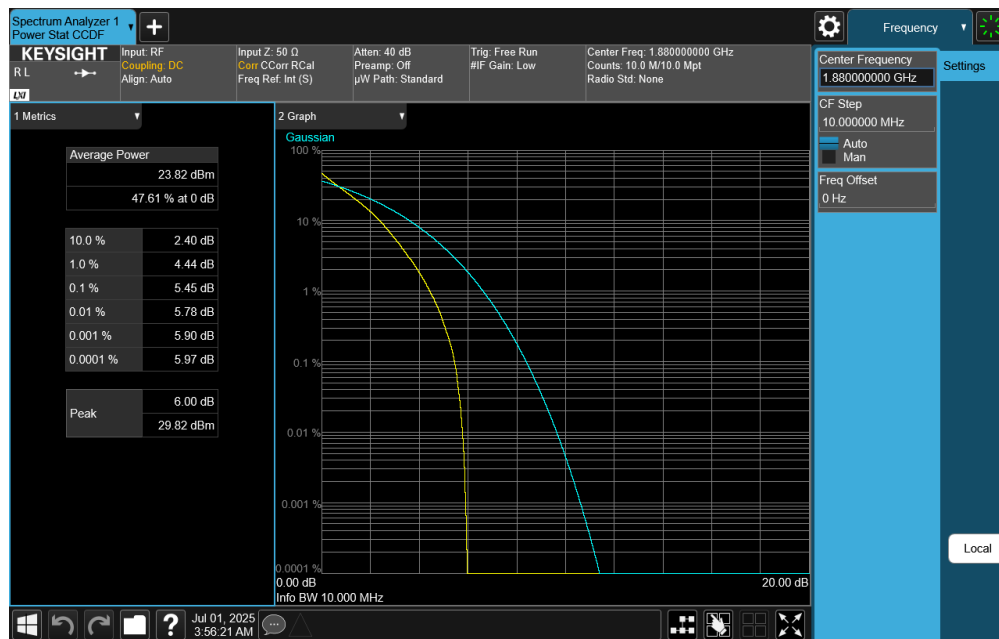
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 106 of 130

V2.2 09/07/2023

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Plot 7-171. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

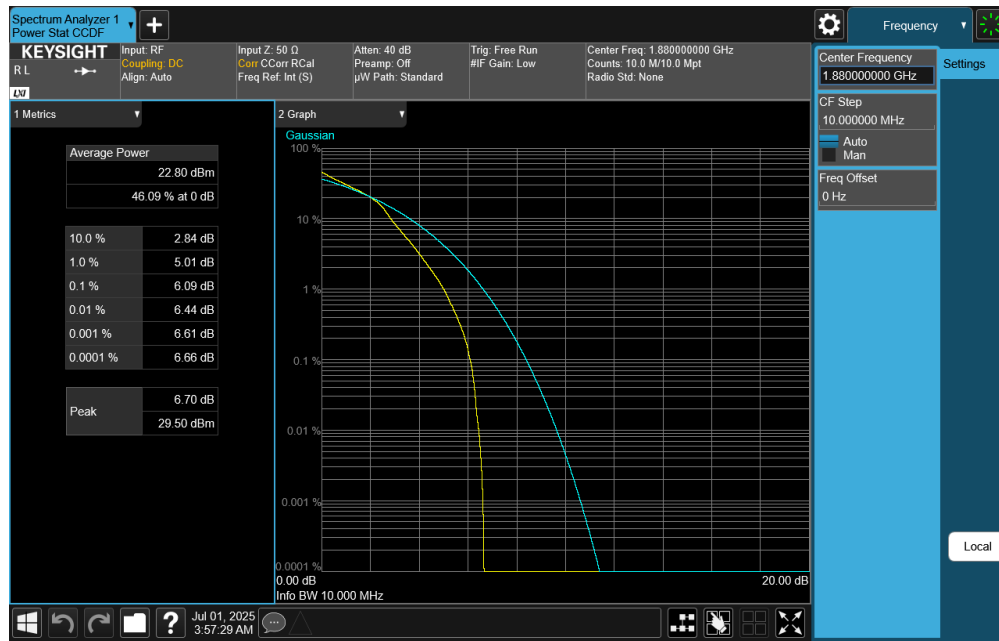


Plot 7-172. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

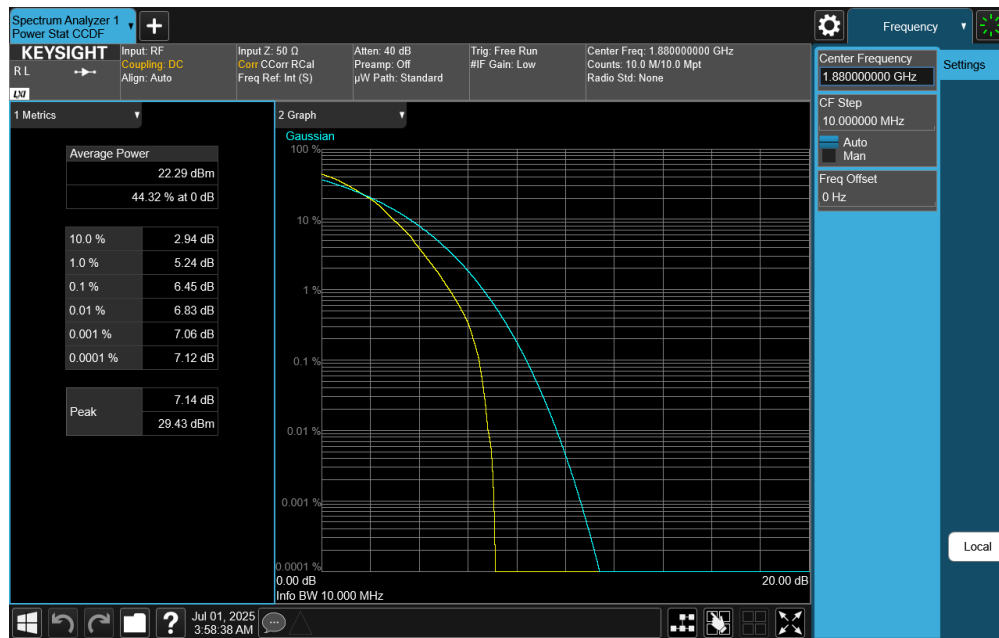
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 107 of 130

V2.2 09/07/2023

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Plot 7-173. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

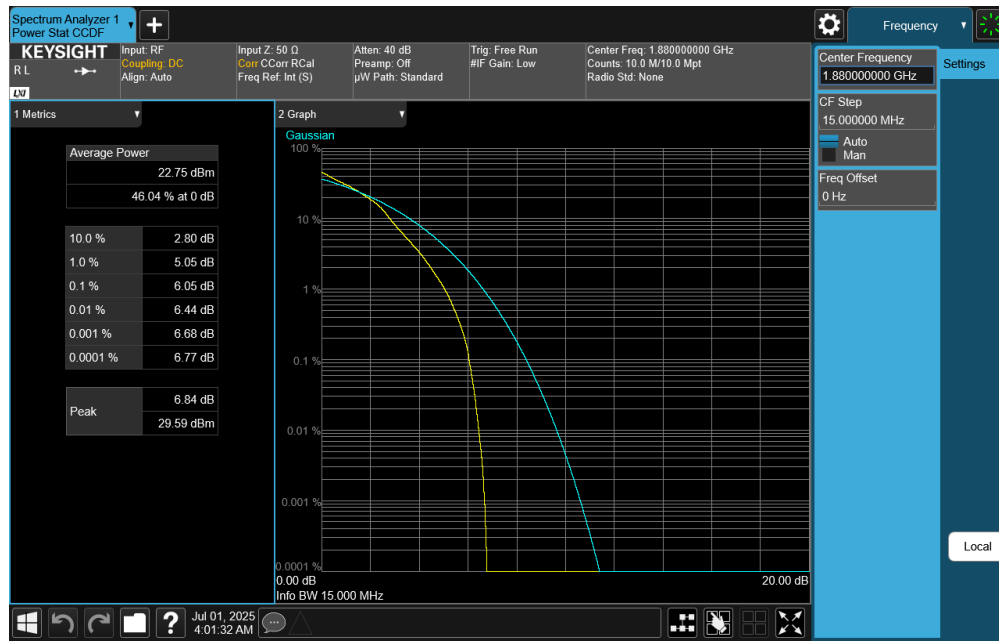


Plot 7-174. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

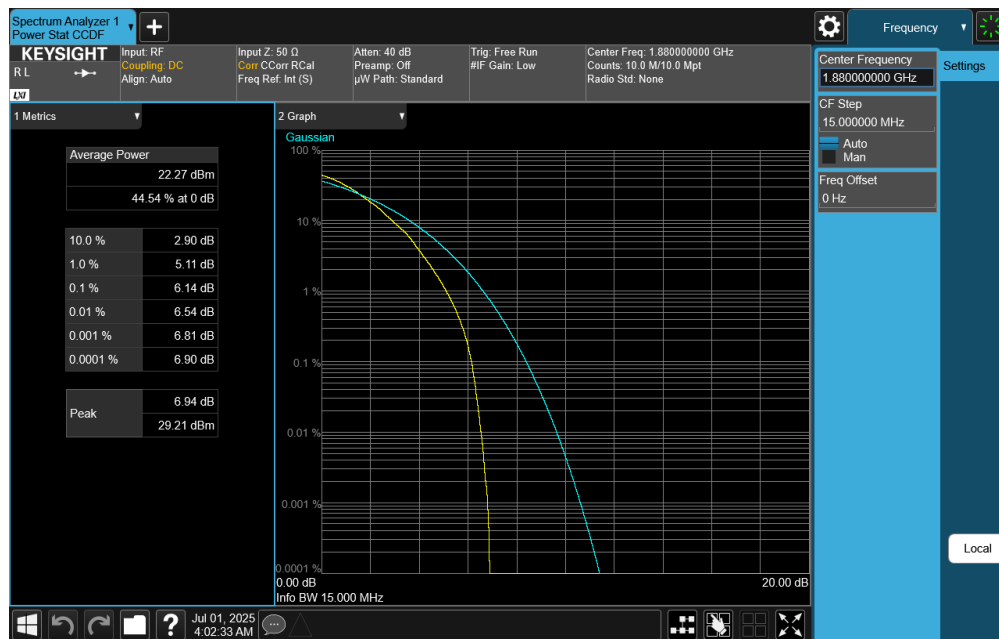
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 108 of 130

V2.2 09/07/2023

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Plot 7-177. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

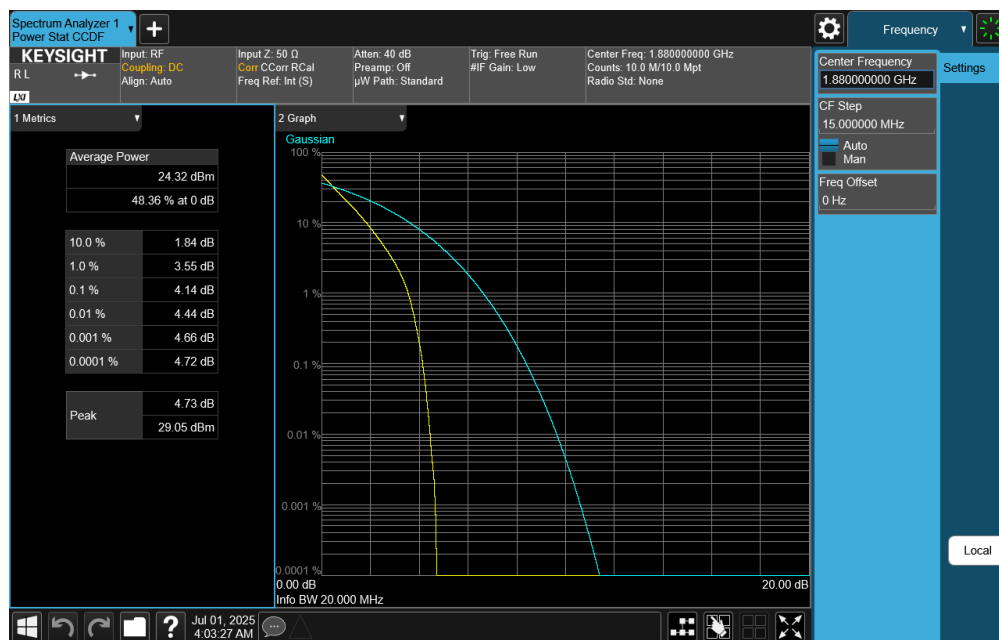


Plot 7-178. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

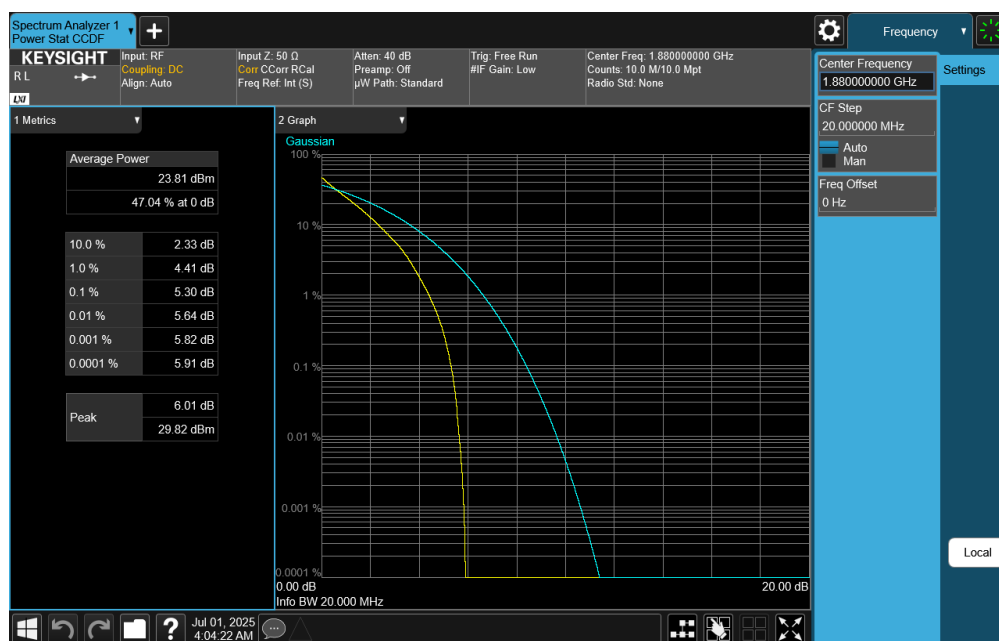
FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 110 of 130

V2.2 09/07/2023

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Plot 7-179. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

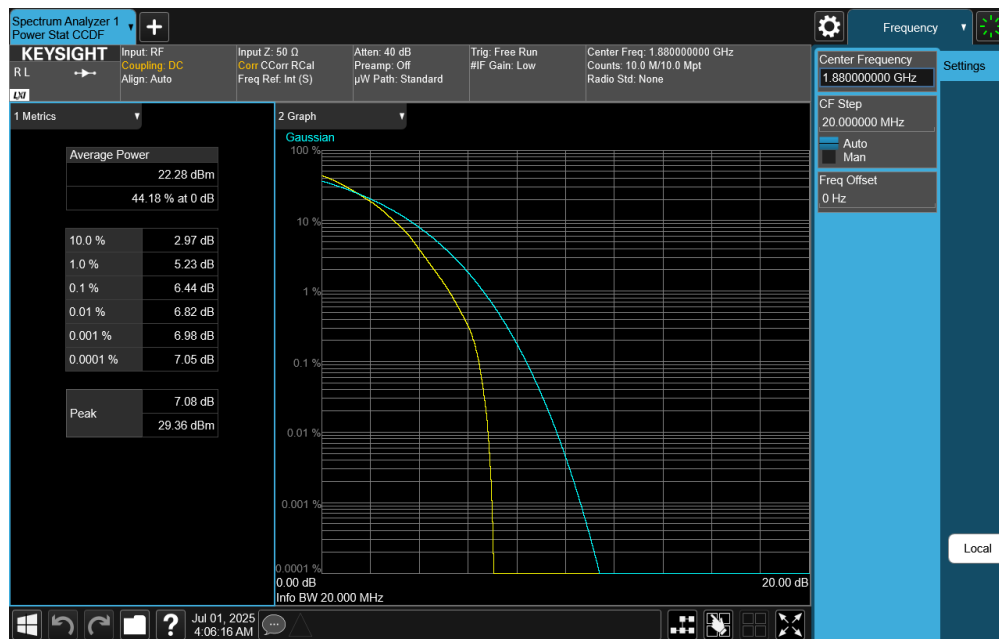
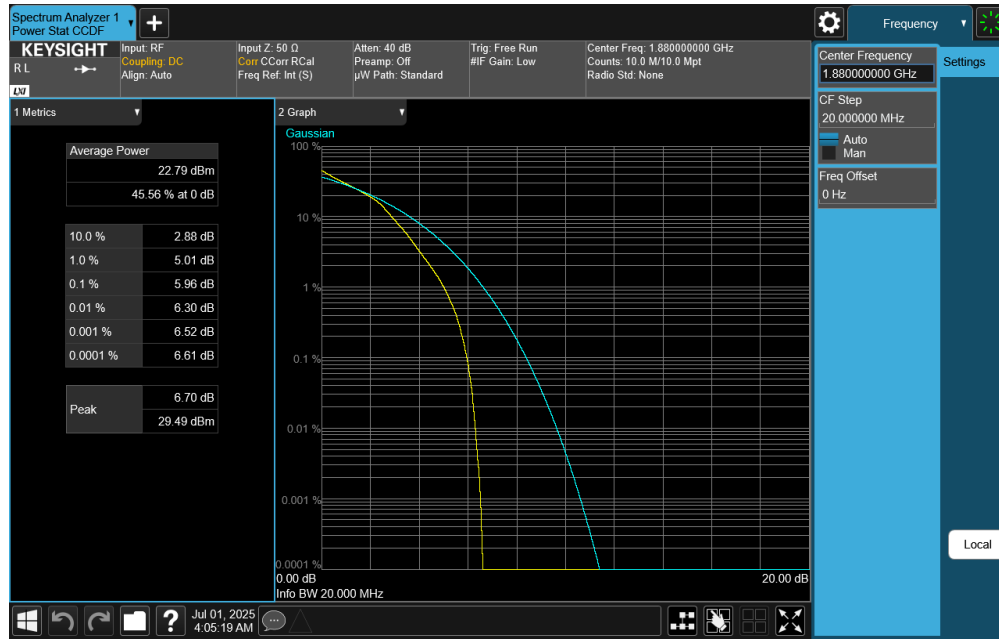


Plot 7-180. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 111 of 130

V2.2 09/07/2023

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FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 112 of 130

V2.2 09/07/2023

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7.6 Radiated Power (EIRP)

§24.232(c)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1
ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the EIRP from the conducted RF output power measured is:

$$\text{EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBi (EIRP)

Test Setup

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

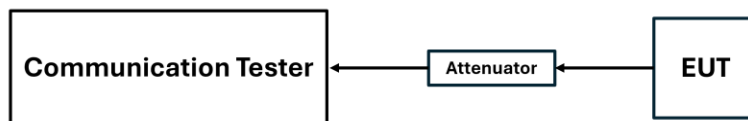


Figure 7-9. LTE Test Instrument & Measurement Setup

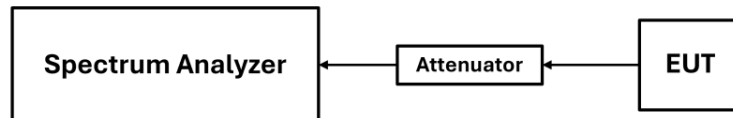


Figure 7-10. FR1 Test Instrument & Measurement Setup

FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 113 of 130

V2.2 09/07/2023

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. The Ant. Gains (GT) are listed in dBi.
5. 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.

FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 114 of 130

V2.2 09/07/2023

7.6.1 Antenna FCM – EIRP

LTE Band 25

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-11.60	1 / 5	24.91	13.31	21.429	33.01	-19.70
		1882.5	-11.60	1 / 5	24.99	13.39	21.827	33.01	-19.62
		1914.3	-11.60	1 / 0	25.20	13.60	22.909	33.01	-19.41
	16-QAM	1882.5	-11.60	1 / 0	24.44	12.84	19.231	33.01	-20.17
3 MHz	QPSK	1851.5	-11.60	1 / 14	24.94	13.34	21.577	33.01	-19.67
		1882.5	-11.60	1 / 14	25.00	13.40	21.878	33.01	-19.61
		1913.5	-11.60	1 / 14	24.91	13.31	21.429	33.01	-19.70
	16-QAM	1882.5	-11.60	1 / 14	24.45	12.85	19.275	33.01	-20.16
5 MHz	QPSK	1852.5	-11.60	1 / 24	25.03	13.43	22.029	33.01	-19.58
		1882.5	-11.60	1 / 24	25.07	13.47	22.233	33.01	-19.54
		1912.5	-11.60	1 / 24	24.87	13.27	21.232	33.01	-19.74
	16-QAM	1882.5	-11.60	1 / 24	24.64	13.04	20.137	33.01	-19.97
10 MHz	QPSK	1855.0	-11.60	1 / 25	24.93	13.33	21.528	33.01	-19.68
		1882.5	-11.60	1 / 49	25.01	13.41	21.928	33.01	-19.60
		1910.0	-11.60	1 / 49	24.89	13.29	21.330	33.01	-19.72
	16-QAM	1882.5	-11.60	1 / 49	24.36	12.76	18.880	33.01	-20.25
20 MHz	QPSK	1857.5	-11.60	1 / 37	25.11	13.51	22.439	33.01	-19.50
		1882.5	-11.60	1 / 37	25.06	13.46	22.182	33.01	-19.55
		1907.5	-11.60	1 / 37	24.92	13.32	21.478	33.01	-19.69
	16-QAM	1882.5	-11.60	1 / 37	24.37	12.77	18.923	33.01	-20.24
	QPSK	1860.0	-11.60	1 / 50	25.12	13.52	22.491	33.01	-19.49
		1882.5	-11.60	1 / 50	24.89	13.29	21.330	33.01	-19.72
		1905.0	-11.60	1 / 50	25.08	13.48	22.284	33.01	-19.53
	16-QAM	1905.0	-11.60	1 / 50	24.69	13.09	20.370	33.01	-19.92

Table 7-2. Antenna FCM EIRP Data (LTE Band 25)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 115 of 130

V2.2 09/07/2023

LTE Band 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1850.7	-11.60	1 / 3	24.84	13.24	21.086	33.01	-19.77
		1880.0	-11.60	1 / 5	25.11	13.51	22.439	33.01	-19.50
		1909.3	-11.60	1 / 5	24.93	13.33	21.528	33.01	-19.68
	16-QAM	1880.0	-11.60	1 / 0	23.90	12.30	16.982	33.01	-20.71
3 MHz	QPSK	1851.5	-11.60	1 / 14	24.98	13.38	21.777	33.01	-19.63
		1880.0	-11.60	1 / 14	25.00	13.40	21.878	33.01	-19.61
		1908.5	-11.60	1 / 0	24.99	13.39	21.827	33.01	-19.62
	16-QAM	1880.0	-11.60	1 / 14	24.42	12.82	19.143	33.01	-20.19
5 MHz	QPSK	1852.5	-11.60	1 / 24	25.04	13.44	22.080	33.01	-19.57
		1880.0	-11.60	1 / 24	25.03	13.43	22.029	33.01	-19.58
		1907.5	-11.60	1 / 12	24.96	13.36	21.677	33.01	-19.65
	16-QAM	1880.0	-11.60	1 / 24	24.66	13.06	20.230	33.01	-19.95
10 MHz	QPSK	1855.0	-11.60	1 / 49	24.96	13.36	21.677	33.01	-19.65
		1880.0	-11.60	1 / 49	25.02	13.42	21.979	33.01	-19.59
		1905.0	-11.60	1 / 49	25.02	13.42	21.979	33.01	-19.59
	16-QAM	1880.0	-11.60	1 / 49	24.37	12.77	18.923	33.01	-20.24
15 MHz	QPSK	1857.5	-11.60	1 / 37	25.20	13.60	22.909	33.01	-19.41
		1880.0	-11.60	1 / 74	25.07	13.47	22.233	33.01	-19.54
		1902.5	-11.60	1 / 74	25.03	13.43	22.029	33.01	-19.58
	16-QAM	1880.0	-11.60	1 / 74	24.43	12.83	19.187	33.01	-20.18
20 MHz	QPSK	1860.0	-11.60	1 / 99	25.19	13.59	22.856	33.01	-19.42
		1880.0	-11.60	1 / 99	24.90	13.30	21.380	33.01	-19.71
		1900.0	-11.60	1 / 50	25.14	13.54	22.594	33.01	-19.47
	16-QAM	1900.0	-11.60	1 / 50	24.73	13.13	20.559	33.01	-19.88

Table 7-3. Antenna FCM EIRP Data (LTE Band 2)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 116 of 130

V2.2 09/07/2023

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NR Band n25

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	-11.60	1 / 23	24.81	13.21	20.951	33.01	-19.80
		1882.5	-11.60	1 / 23	24.82	13.22	20.970	33.01	-19.79
		1912.5	-11.60	1 / 0	24.77	13.17	20.756	33.01	-19.84
	QPSK	1852.5	-11.60	1 / 23	24.85	13.25	21.138	33.01	-19.76
		1882.5	-11.60	1 / 0	24.87	13.27	21.228	33.01	-19.74
		1912.5	-11.60	1 / 0	24.88	13.28	21.271	33.01	-19.73
	16-QAM	1882.5	-11.60	1 / 12	23.62	12.02	15.921	33.01	-20.99
10 MHz	$\pi/2$ BPSK	1855.0	-11.60	1 / 25	24.82	13.22	21.008	33.01	-19.79
		1882.5	-11.60	1 / 48	24.86	13.26	21.205	33.01	-19.75
		1910.0	-11.60	1 / 48	24.78	13.18	20.812	33.01	-19.83
	QPSK	1855.0	-11.60	1 / 48	24.83	13.23	21.017	33.01	-19.78
		1882.5	-11.60	1 / 48	24.87	13.27	21.232	33.01	-19.74
		1910.0	-11.60	1 / 25	24.81	13.21	20.938	33.01	-19.80
	16-QAM	1910.0	-11.60	1 / 48	23.62	12.02	15.927	33.01	-20.99
15 MHz	$\pi/2$ BPSK	1857.5	-11.60	1 / 37	24.84	13.24	21.069	33.01	-19.77
		1882.5	-11.60	1 / 73	24.87	13.27	21.245	33.01	-19.74
		1907.5	-11.60	1 / 37	24.80	13.20	20.912	33.01	-19.81
	QPSK	1857.5	-11.60	1 / 0	24.84	13.24	21.073	33.01	-19.77
		1882.5	-11.60	1 / 37	24.87	13.27	21.251	33.01	-19.74
		1907.5	-11.60	1 / 0	24.81	13.21	20.932	33.01	-19.80
	16-QAM	1882.5	-11.60	1 / 0	23.59	11.99	15.822	33.01	-21.02
20 MHz	$\pi/2$ BPSK	1860.0	-11.60	1 / 98	24.86	13.26	21.160	33.01	-19.76
		1882.5	-11.60	1 / 50	24.85	13.25	21.127	33.01	-19.76
		1905.0	-11.60	1 / 98	24.81	13.21	20.920	33.01	-19.80
	QPSK	1860.0	-11.60	1 / 98	24.87	13.27	21.246	33.01	-19.74
		1882.5	-11.60	1 / 50	24.89	13.29	21.310	33.01	-19.72
		1905.0	-11.60	1 / 0	24.83	13.23	21.037	33.01	-19.78
	16-QAM	1882.5	-11.60	1 / 50	23.64	12.04	16.004	33.01	-20.97
20 MHz	64-QAM	1882.5	-11.60	1 / 98	22.29	10.69	11.722	33.01	-22.32

Table 7-4. Antenna FCM EIRP Data (NR Band n25)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 117 of 130

V2.2 09/07/2023

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NR Band n2

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1852.5	-11.60	1 / 23	24.70	13.10	20.419	33.01	-19.91
		1880.0	-11.60	1 / 0	24.73	13.13	20.557	33.01	-19.88
		1907.5	-11.60	1 / 23	24.73	13.13	20.580	33.01	-19.88
	QPSK	1852.5	-11.60	1 / 0	24.78	13.18	20.782	33.01	-19.83
		1880.0	-11.60	1 / 0	24.77	13.17	20.762	33.01	-19.84
		1907.5	-11.60	1 / 0	24.79	13.19	20.840	33.01	-19.82
	16-QAM	1907.5	-11.60	1 / 0	23.56	11.96	15.714	33.01	-21.05
10 MHz	$\pi/2$ BPSK	1855.0	-11.60	1 / 0	24.75	13.15	20.675	33.01	-19.86
		1880.0	-11.60	1 / 0	24.78	13.18	20.804	33.01	-19.83
		1905.0	-11.60	1 / 0	24.80	13.20	20.895	33.01	-19.81
	QPSK	1855.0	-11.60	1 / 0	24.76	13.16	20.700	33.01	-19.85
		1880.0	-11.60	1 / 0	24.82	13.22	21.007	33.01	-19.79
		1905.0	-11.60	1 / 0	24.83	13.23	21.032	33.01	-19.78
	16-QAM	1905.0	-11.60	1 / 48	23.59	11.99	15.830	33.01	-21.02
15 MHz	$\pi/2$ BPSK	1857.5	-11.60	1 / 73	24.84	13.24	21.070	33.01	-19.77
		1880.0	-11.60	1 / 73	24.80	13.20	20.916	33.01	-19.81
		1902.5	-11.60	1 / 0	24.83	13.23	21.049	33.01	-19.78
	QPSK	1857.5	-11.60	1 / 73	24.83	13.23	21.030	33.01	-19.78
		1880.0	-11.60	1 / 0	24.85	13.25	21.118	33.01	-19.76
		1902.5	-11.60	1 / 0	24.87	13.27	21.225	33.01	-19.74
	16-QAM	1902.5	-11.60	1 / 0	23.60	12.00	15.832	33.01	-21.01
20 MHz	$\pi/2$ BPSK	1860.0	-11.60	1 / 98	24.81	13.21	20.933	33.01	-19.80
		1880.0	-11.60	1 / 0	24.83	13.23	21.046	33.01	-19.78
		1900.0	-11.60	1 / 0	24.80	13.20	20.909	33.01	-19.81
	QPSK	1860.0	-11.60	1 / 98	24.85	13.25	21.115	33.01	-19.76
		1880.0	-11.60	1 / 0	24.80	13.20	20.898	33.01	-19.81
		1900.0	-11.60	1 / 0	24.83	13.23	21.028	33.01	-19.78
	16-QAM	1860.0	-11.60	1 / 98	23.58	11.98	15.775	33.01	-21.03
20 MHz	64-QAM	1900.0	-11.60	1 / 50	22.30	10.70	11.749	33.01	-22.31

Table 7-5. Antenna FCM EIRP Data (NR Band n2)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 118 of 130

V2.2 09/07/2023

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7.7 Radiated Spurious Emissions

§2.1053, 24.238(a)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 119 of 130

V2.2 09/07/2023

Test Setup

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

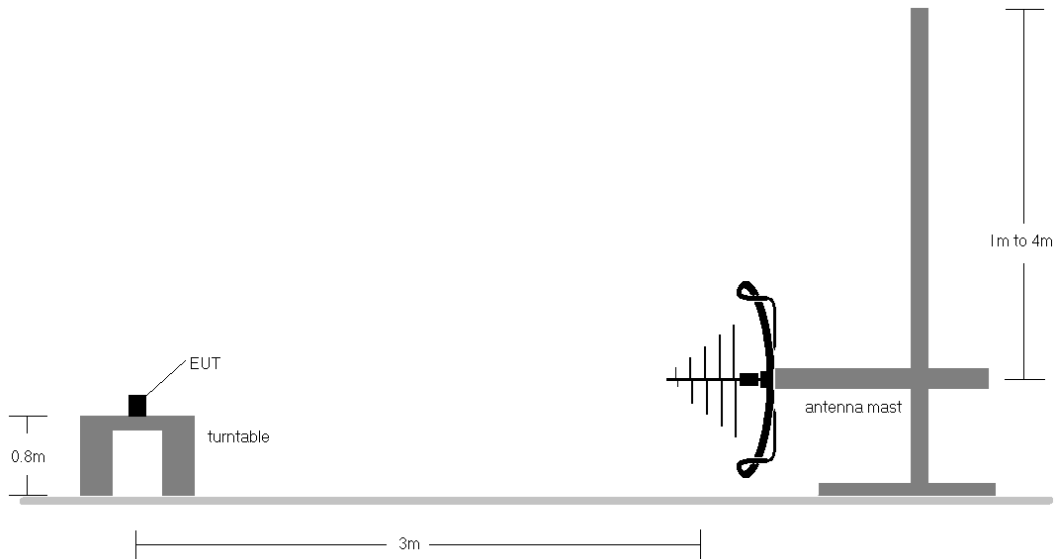


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

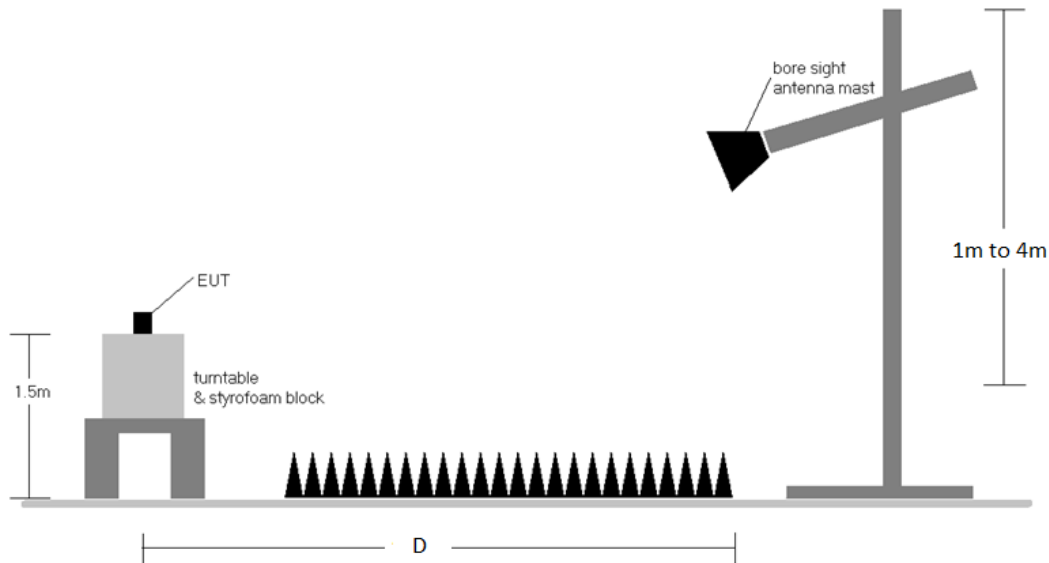


Figure 7-12. Test Instrument & Measurement Setup >1 GHz

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 120 of 130

V2.2 09/07/2023

Test Notes

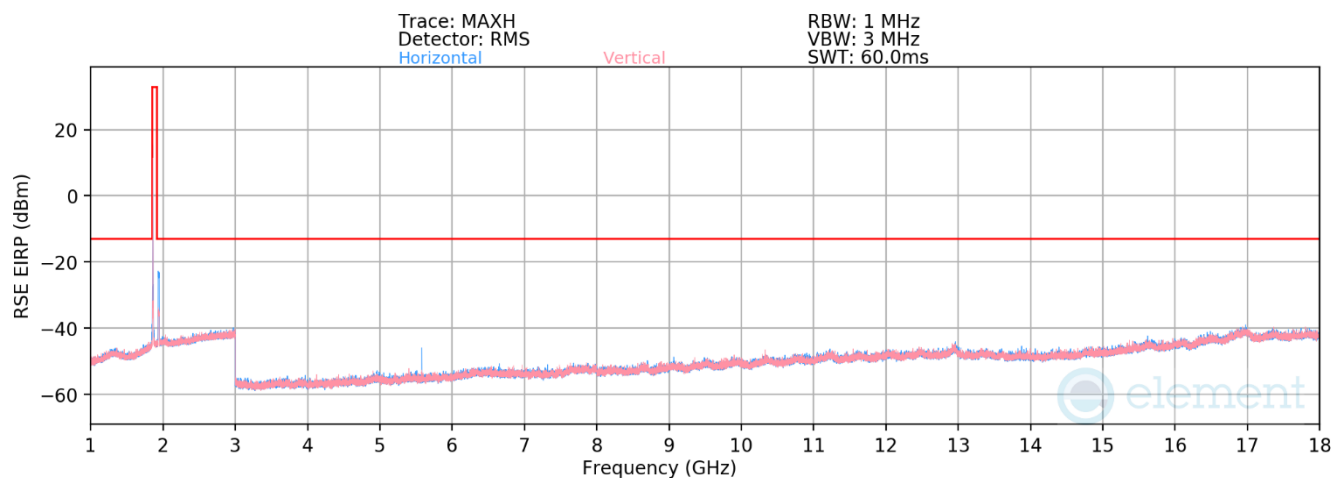
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
6. No significant emissions were found for below 1GHz and Above 18GHz measurement.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. 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.
9. NR band n25 overlaps the entire frequency range of NR band 2. Therefore, the radiated emissions data of NR band n25 provided in this report covers NR band n2.

FCC ID: BCG-A3337		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch	Page 121 of 130

V2.2 09/07/2023

7.7.1 Antenna FCM – Radiated Spurious Emission Measurement

LTE Band 25/2



Plot 7-183. Radiated Spurious Plot (LTE Band 25/2)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 122 of 130

V2.2 09/07/2023

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	V	-	-	-79.19	5.69	33.49	-61.76	-13.00	-48.76
5580.0	H	100	128	-69.86	9.51	46.65	-48.61	-13.00	-35.61
7440.0	V	-	-	-82.28	11.33	36.05	-59.21	-13.00	-46.21
9300.0	V	-	-	-82.30	12.67	37.37	-57.89	-13.00	-44.89
11160.0	V	-	-	-82.50	15.59	40.09	-55.17	-13.00	-42.17

Table 7-6. Antenna FCM Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	V	-	-	-79.51	5.59	33.08	-62.18	-13.00	-49.18
5647.5	V	-	-	-80.25	9.43	36.19	-59.07	-13.00	-46.07
7530.0	V	-	-	-82.37	11.26	35.89	-59.37	-13.00	-46.37

Table 7-7. Antenna FCM Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

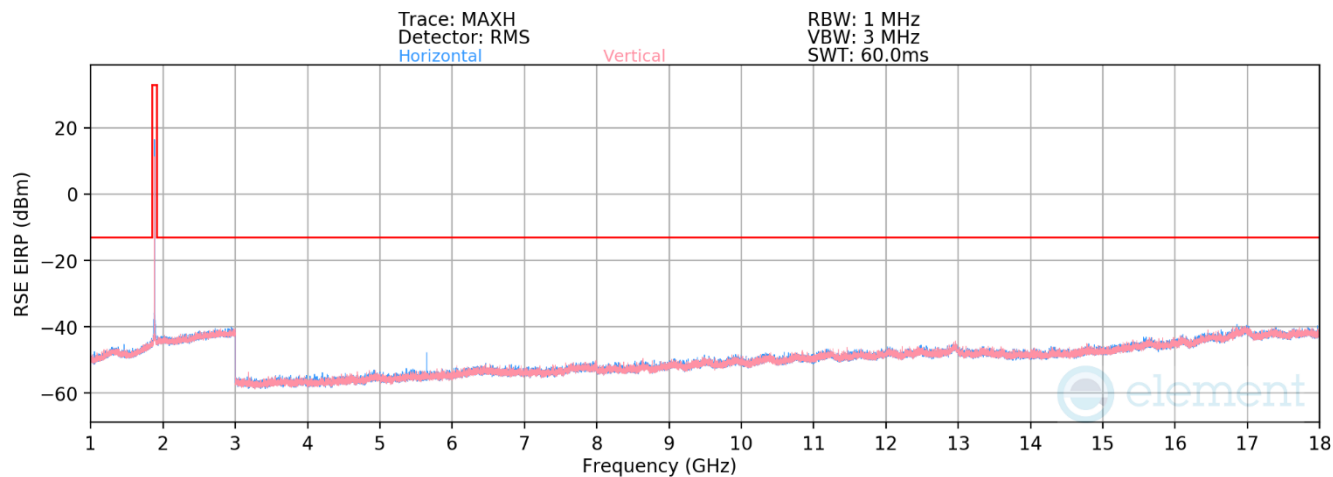
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	V	-	-	-79.93	5.69	32.76	-62.50	-13.00	-49.50
5715.00	V	-	-	-80.77	9.93	36.16	-59.10	-13.00	-46.10
7620.00	V	-	-	-81.79	11.51	36.73	-58.53	-13.00	-45.53

Table 7-8. Antenna FCM Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 123 of 130

V2.2 09/07/2023

NR Band n25/2



Plot 7-184. Radiated Spurious Plot (NR Band n25/2)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 124 of 130

V2.2 09/07/2023

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	V	-	-	-79.38	5.59	33.21	-62.05	-13.00	-49.05
5580.0	V	-	-	-81.68	9.59	34.91	-60.35	-13.00	-47.35
7440.0	V	-	-	-82.36	11.69	36.33	-58.93	-13.00	-45.93

Table 7-9. Antenna FCM Radiated Spurious Data (NR Band n25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	V	-	-	-79.54	5.54	32.99	-62.27	-13.00	-49.27
5647.5	H	107	131	-74.98	9.43	41.46	-53.80	-13.00	-40.80
7530.0	V	-	-	-82.27	11.23	35.97	-59.29	-13.00	-46.29
9412.5	V	-	-	-81.41	12.16	37.75	-57.51	-13.00	-44.51
11295.0	V	-	-	-82.73	16.08	40.35	-54.91	-13.00	-41.91

Table 7-10. Antenna FCM Radiated Spurious Data (NR Band n25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.0	V	-	-	-79.74	5.69	32.94	-62.31	-13.00	-49.31
5715.0	H	100	136	-75.58	9.93	41.35	-53.91	-13.00	-40.91
7620.0	V	-	-	-81.71	11.51	36.81	-58.45	-13.00	-45.45
9525.0	V	-	-	-81.30	13.33	39.03	-56.23	-13.00	-43.23
11430.0	V	-	-	-83.24	16.23	39.99	-55.27	-13.00	-42.27

Table 7-11. Antenna FCM Radiated Spurious Data (NR Band n25/2 – High Channel)

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 125 of 130

V2.2 09/07/2023

7.8 Frequency Stability / Temperature Variation

§2.1055, §24.235

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 126 of 130

V2.2 09/07/2023

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber. For LTE testing, in addition, the EUT was connected to a communication tester via an attenuated RF coupler.

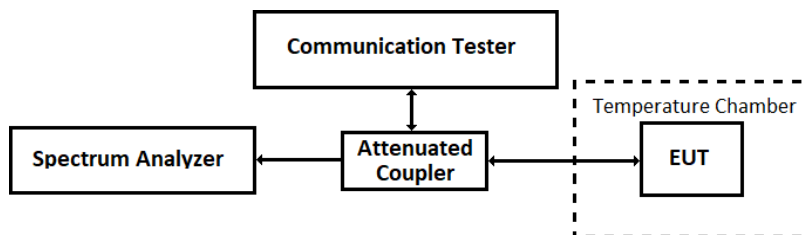


Figure 7-13. LTE Test Instrument & Measurement Setup

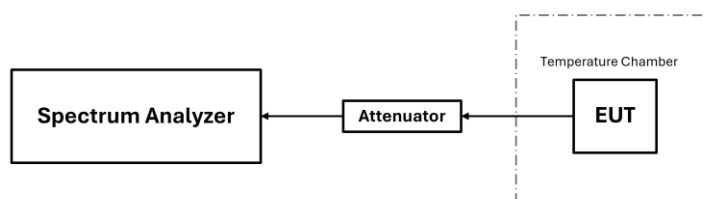


Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

N/A

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 127 of 130

V2.2 09/07/2023

Frequency Stability / Temperature Variation

LTE B25/2				
Operating Band Lower Boundary (GHz)			1.850	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.85098370	-0.00098370
		- 20	1.85002760	-0.00002760
		- 10	1.85064820	-0.00064820
		0	1.85051540	-0.00051540
		+ 10	1.85074640	-0.00074640
		+ 20 (Ref)	1.85058430	-0.00058430
		+ 30	1.85053050	-0.00053050
		+ 40	1.85060820	-0.00060820
		+ 50	1.85025280	-0.00025280
Battery Endpoint	3.40	+ 20	1.85089530	-0.00089530

Table 7-12. LTE Band 25/2 Lower Boundary Frequency Stability Data

LTE B25/2				
Operating Band Upper Boundary (GHz)			1.915	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.91451750	-0.00048250
		- 20	1.91493210	-0.00006790
		- 10	1.91430200	-0.00069800
		0	1.91439760	-0.00060240
		+ 10	1.91467080	-0.00032920
		+ 20 (Ref)	1.91404580	-0.00095420
		+ 30	1.91415330	-0.00084670
		+ 40	1.91459900	-0.00040100
		+ 50	1.91433900	-0.00066100
Battery Endpoint	3.40	+ 20	1.91483910	-0.00016090

Table 7-13. LTE Band 25/2 Upper Boundary Frequency Stability Data

FCC ID: BCG-A3337			PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch		Page 128 of 130

V2.2 09/07/2023

Frequency Stability / Temperature Variation

NR Band n25/2				
Operating Band Lower Boundary (GHz)			1.850	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.85036650	-0.00036650
		- 20	1.85039250	-0.00039250
		- 10	1.85031730	-0.00031730
		0	1.85073680	-0.00073680
		+ 10	1.85040540	-0.00040540
		+ 20 (Ref)	1.85038960	-0.00038960
		+ 30	1.85018220	-0.00018220
		+ 40	1.85041730	-0.00041730
		+ 50	1.85034340	-0.00034340
Battery Endpoint	3.40	+ 20	1.85030750	-0.00030750

Table 7-14. NR Band n25/2 Lower Boundary Frequency Stability Data

NR Band n25/2				
Operating Band Upper Boundary (GHz)			1.915	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	1.91479580	-0.00020420
		- 20	1.91476800	-0.00023200
		- 10	1.91532880	0.00032880
		0	1.91430690	-0.00069310
		+ 10	1.91477920	-0.00022080
		+ 20 (Ref)	1.91461800	-0.00038200
		+ 30	1.91463610	-0.00036390
		+ 40	1.91478250	-0.00021750
		+ 50	1.91429180	-0.00070820
Battery Endpoint	3.40	+ 20	1.91456290	-0.00043710

Table 7-15. NR Band n25/2 Upper Boundary Frequency Stability Data

FCC ID: BCG-A3337			PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch		Page 129 of 130

V2.2 09/07/2023

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Watch** **FCC ID: BCG-A3337** complies with all the requirements of Part 24 of the FCC rules.

FCC ID: BCG-A3337	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-02.BCG	Test Dates: 01/31/2025 - 07/23/2025	EUT Type: Watch
		Page 130 of 130

V2.2 09/07/2023

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