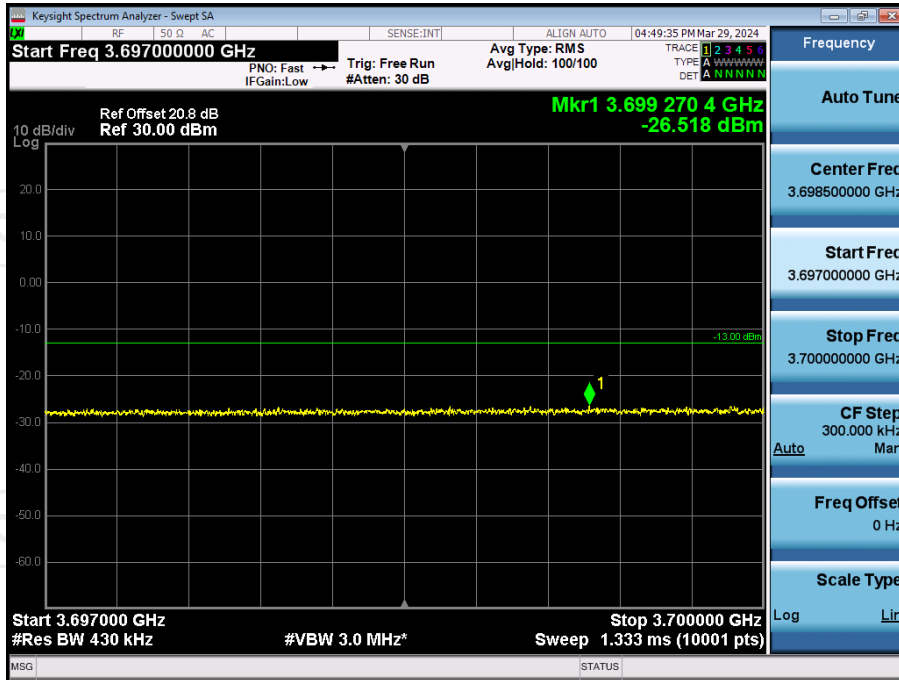
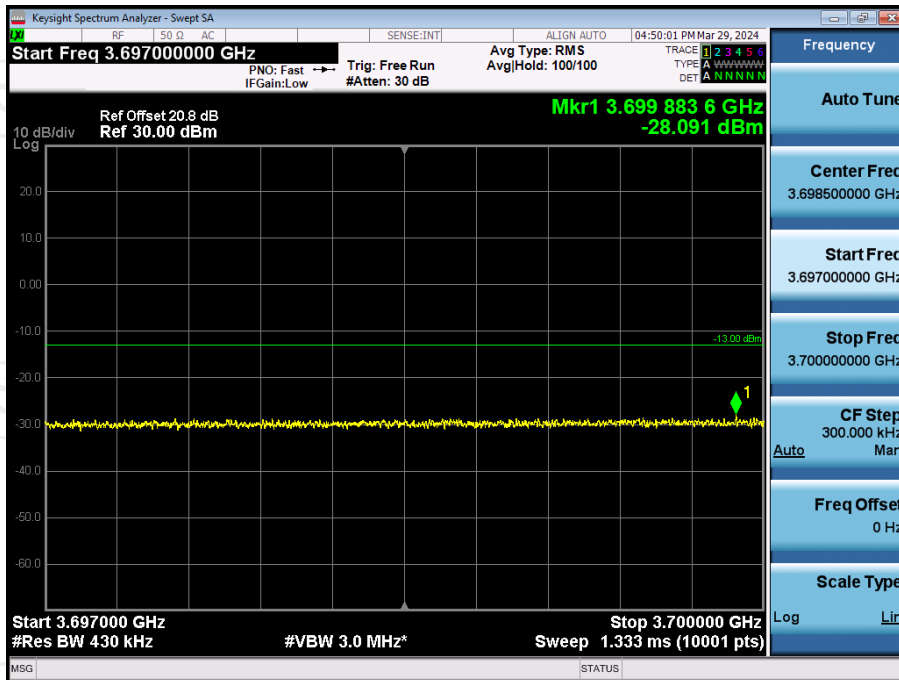


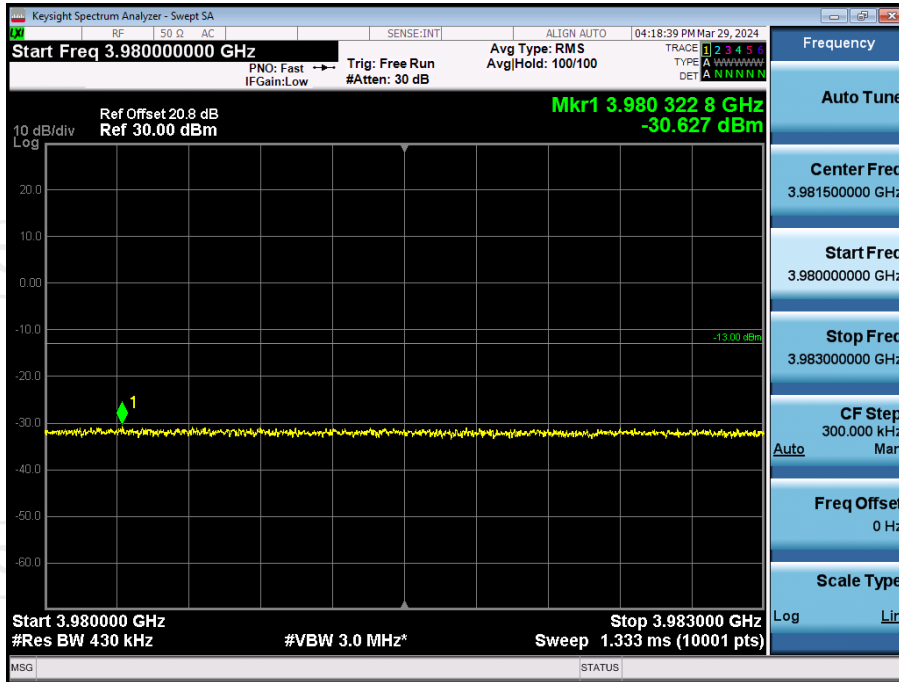
5G NR 40 MHz DL Left Side Pre AGC



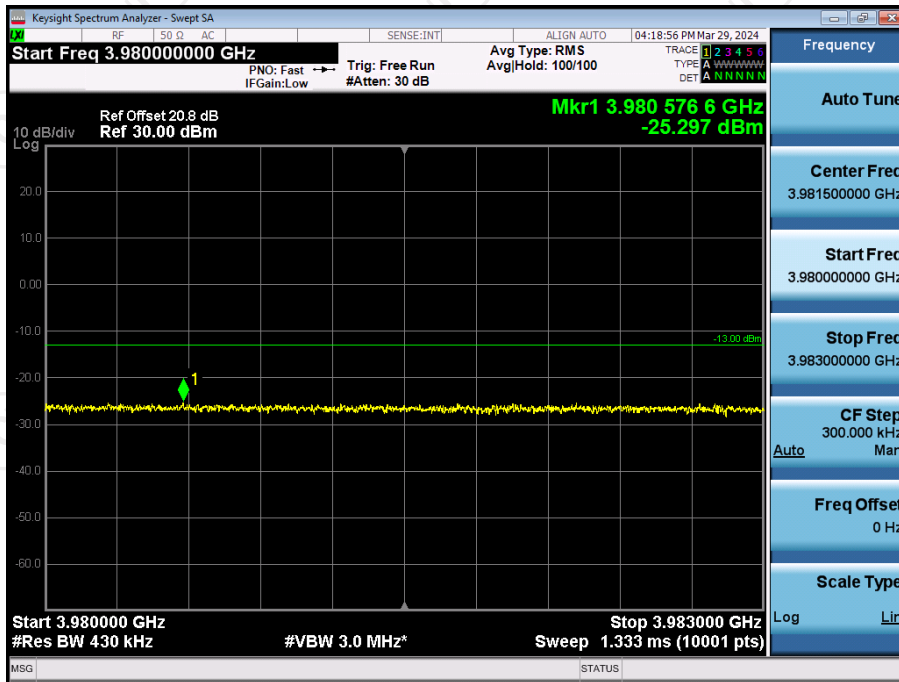
5G NR 40 MHz DL Left Side Pre AGC + 3 dB



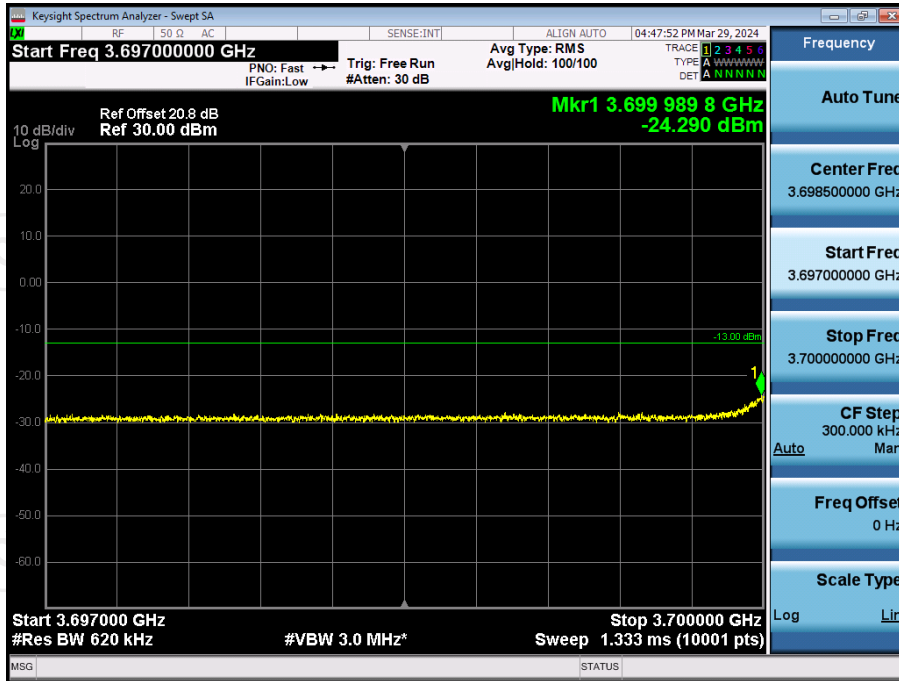
5G NR 40 MHz DL Right Side Pre AGC



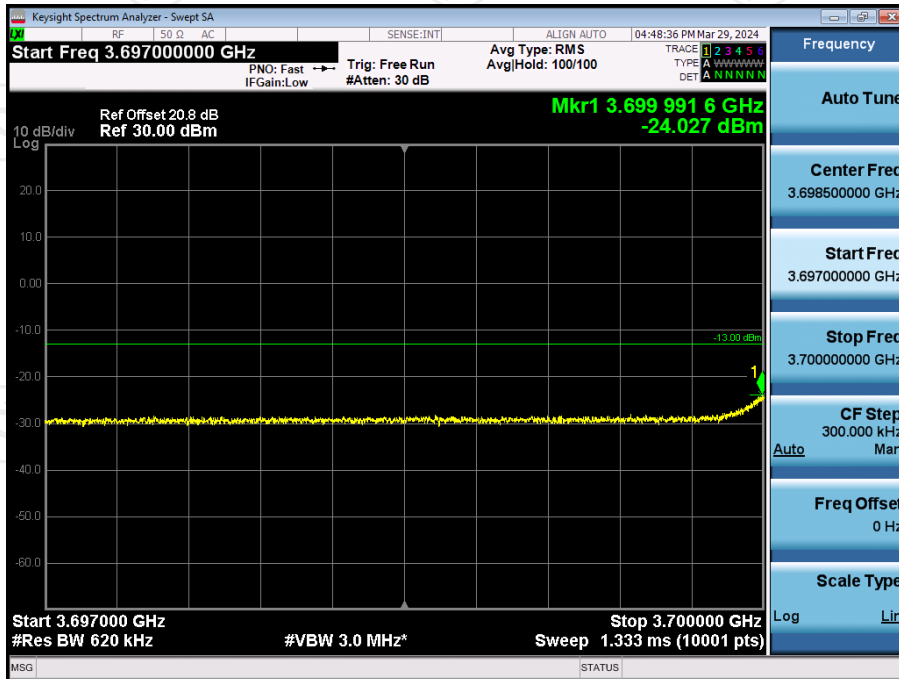
5G NR 40 MHz DL Right Side Pre AGC + 3 dB



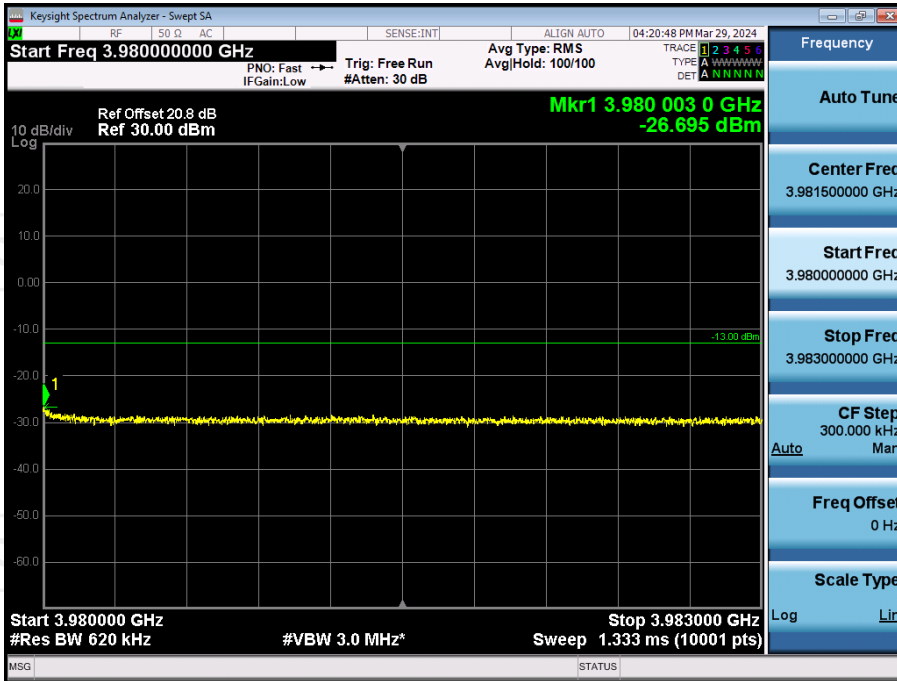
5G NR 60 MHz DL Left Side Pre AGC



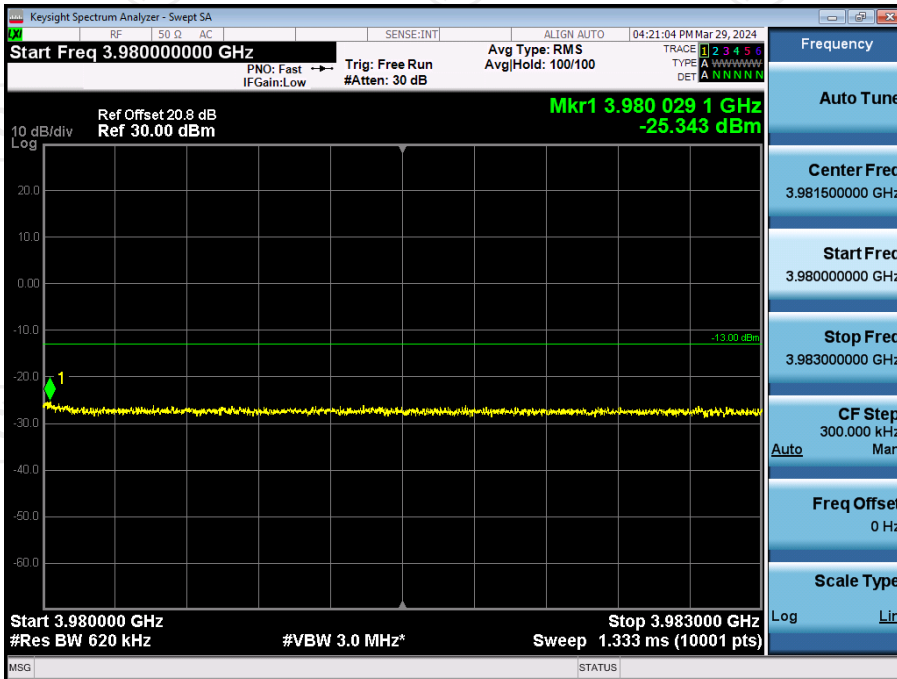
5G NR 60 MHz DL Left Side Pre AGC + 3 dB



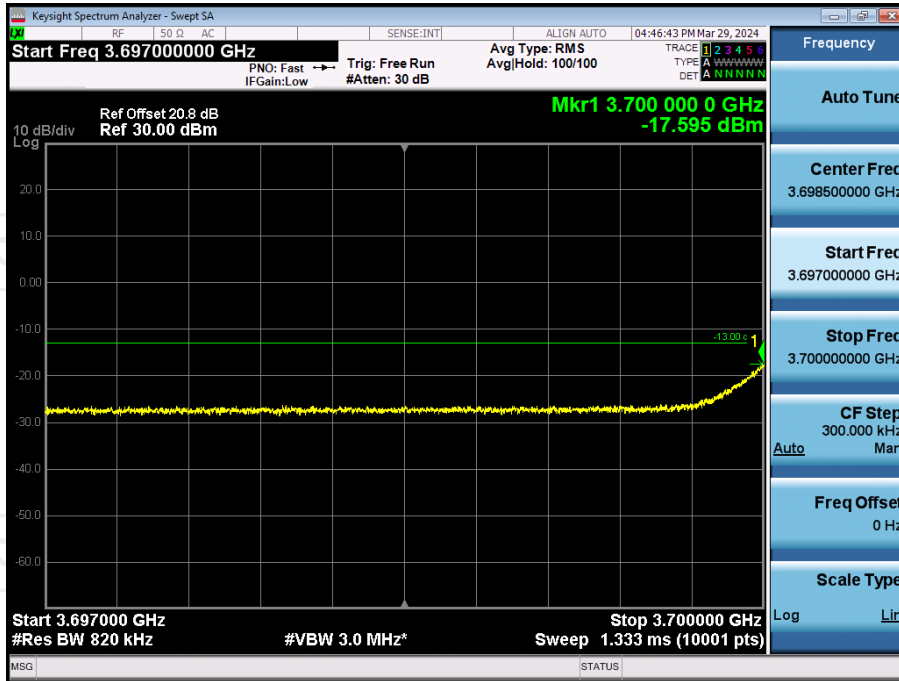
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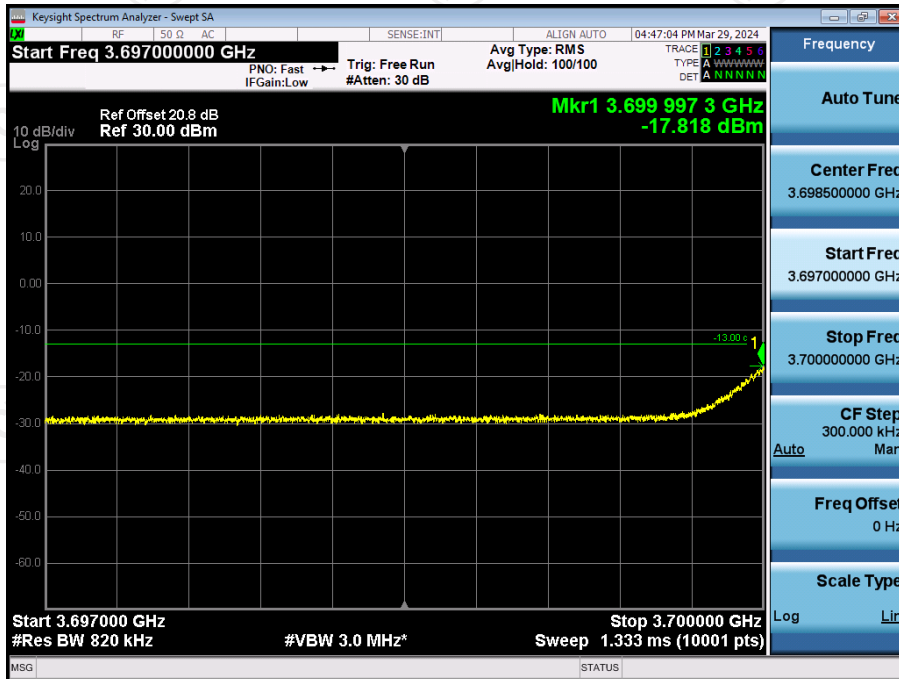
5G NR 60 MHz DL Right Side Pre AGC + 3 dB



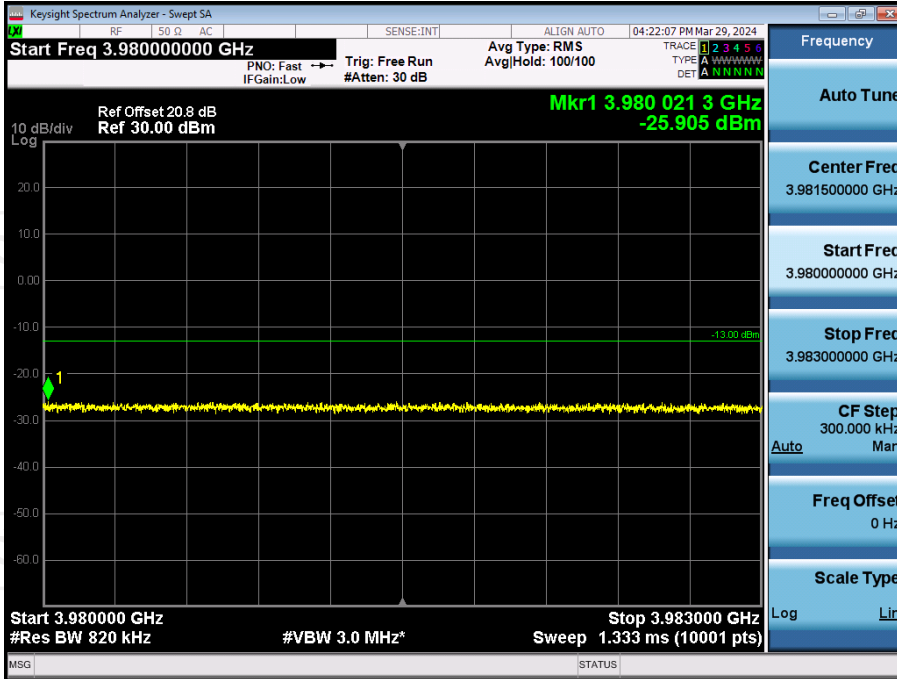
5G NR 80 MHz DL Left Side Pre AGC



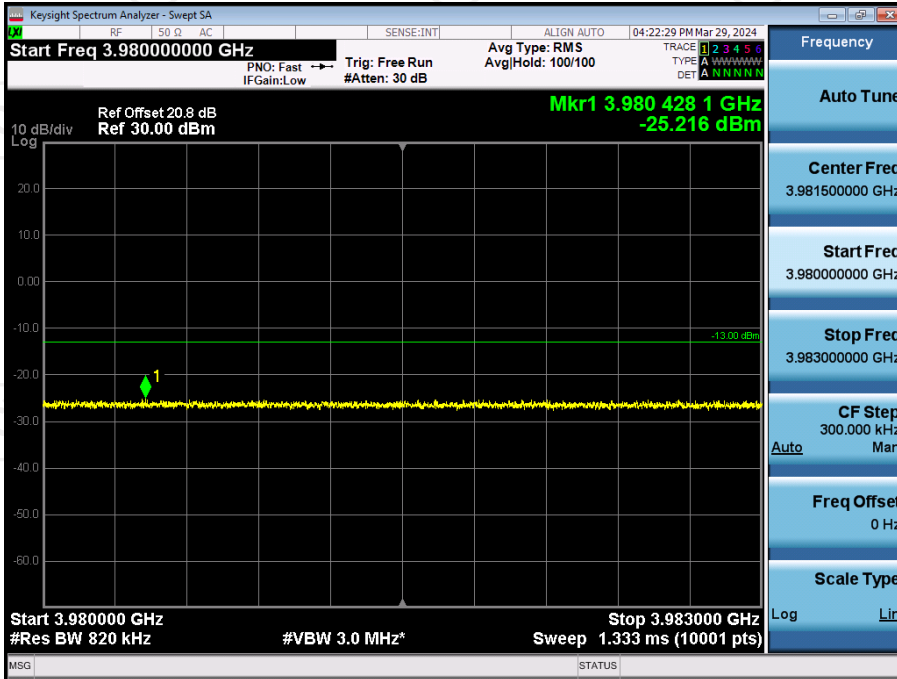
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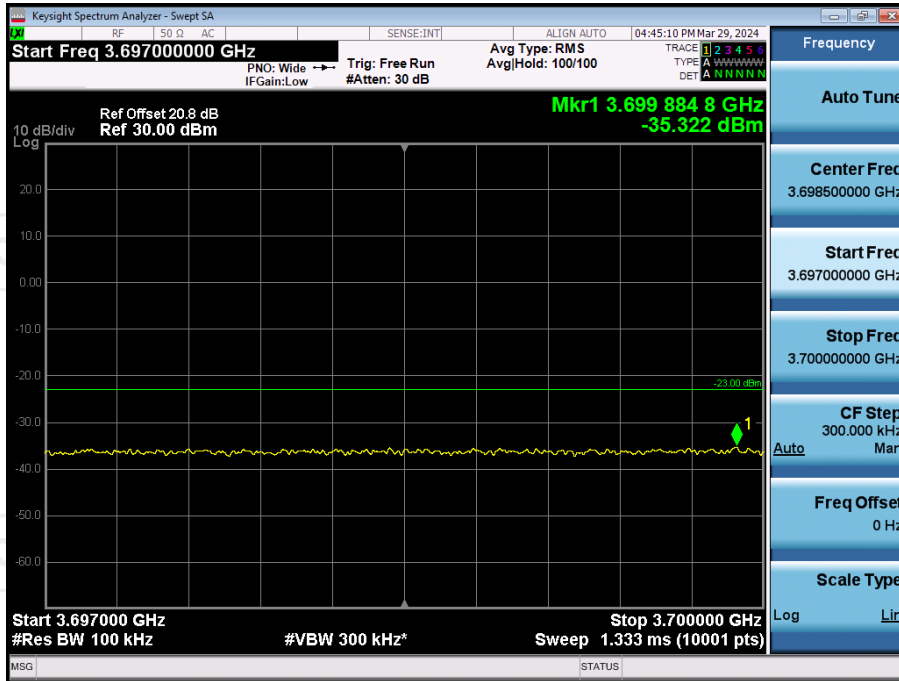
5G NR 80 MHz DL Right Side Pre AGC



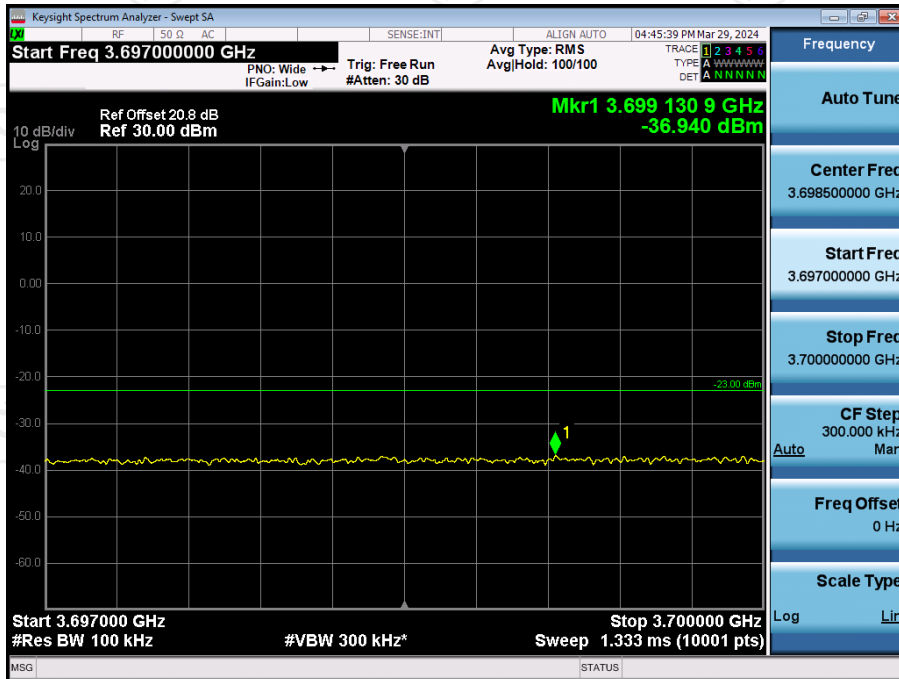
5G NR 80 MHz DL Right Side Pre AGC + 3 dB



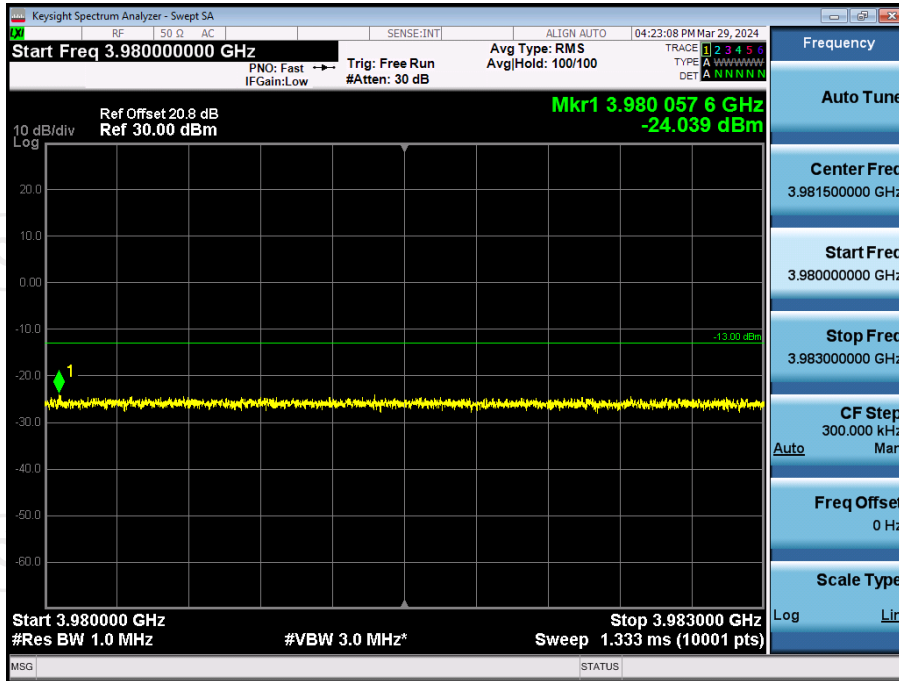
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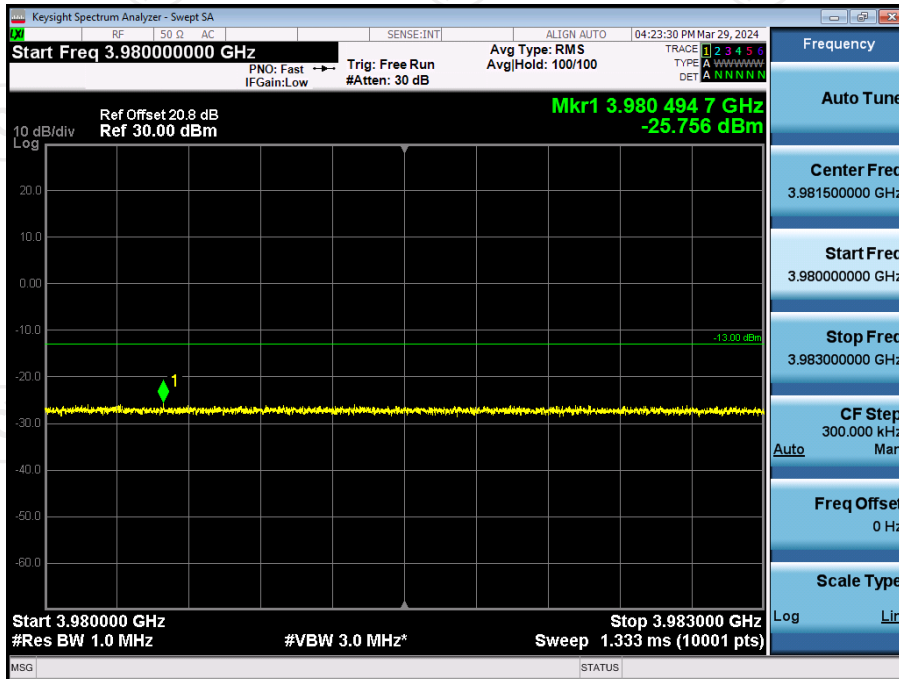
5G NR 100 MHz DL Left Side Pre AGC + 3 dB



5G NR 100 MHz DL Right Side Pre AGC

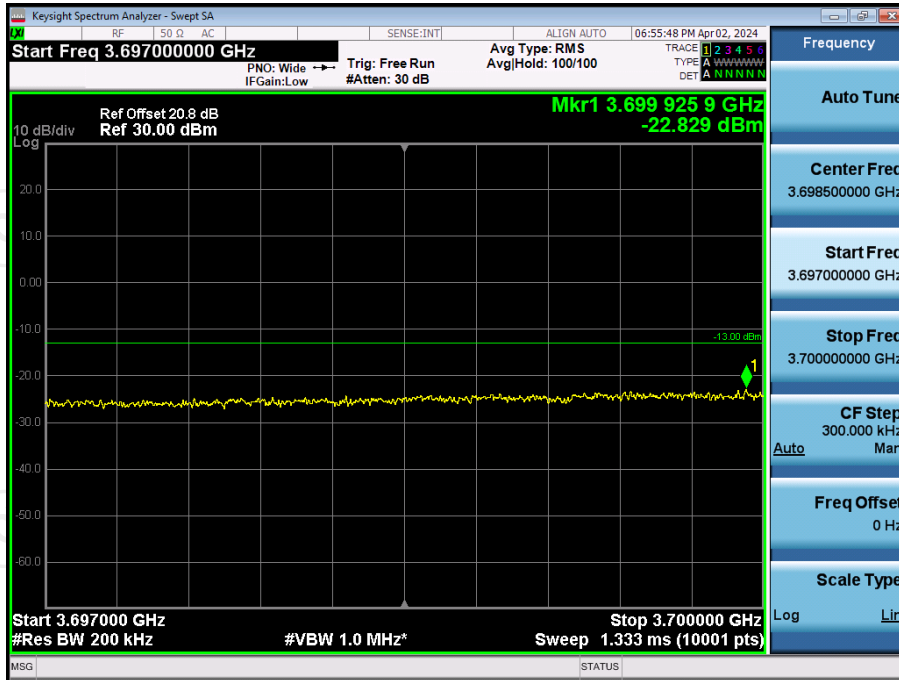


5G NR 100 MHz DL Right Side Pre AGC + 3 dB

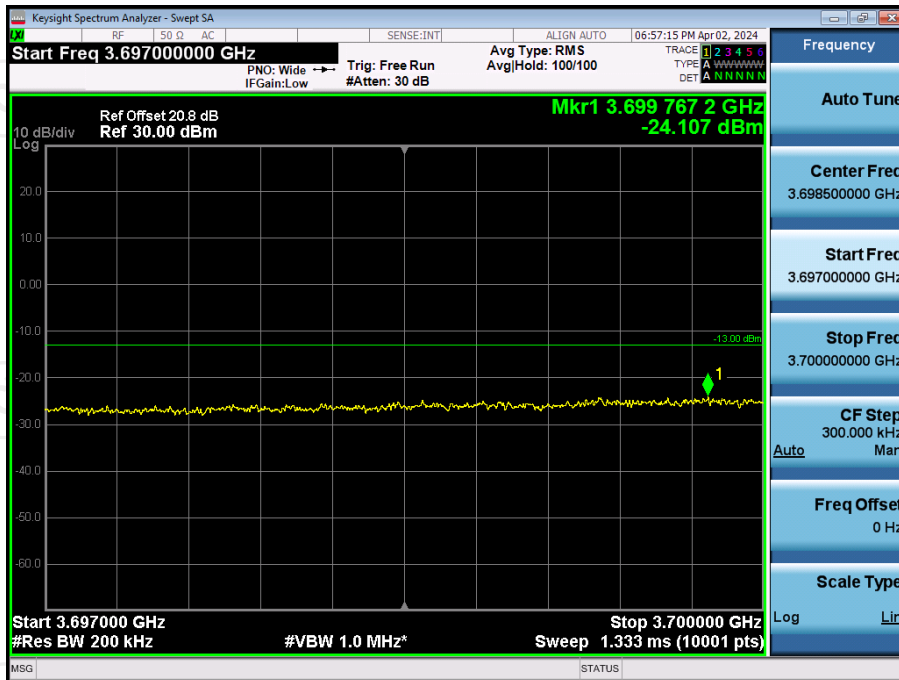


Path2 Sub-Band Mode Single Signal

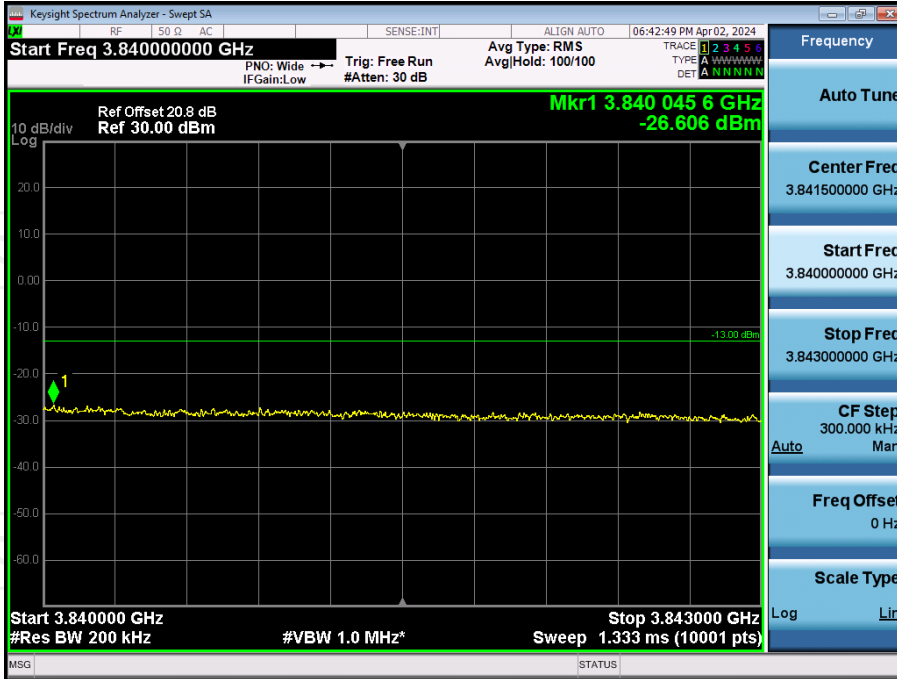
5G NR 20 MHz UL Left Side Pre AGC



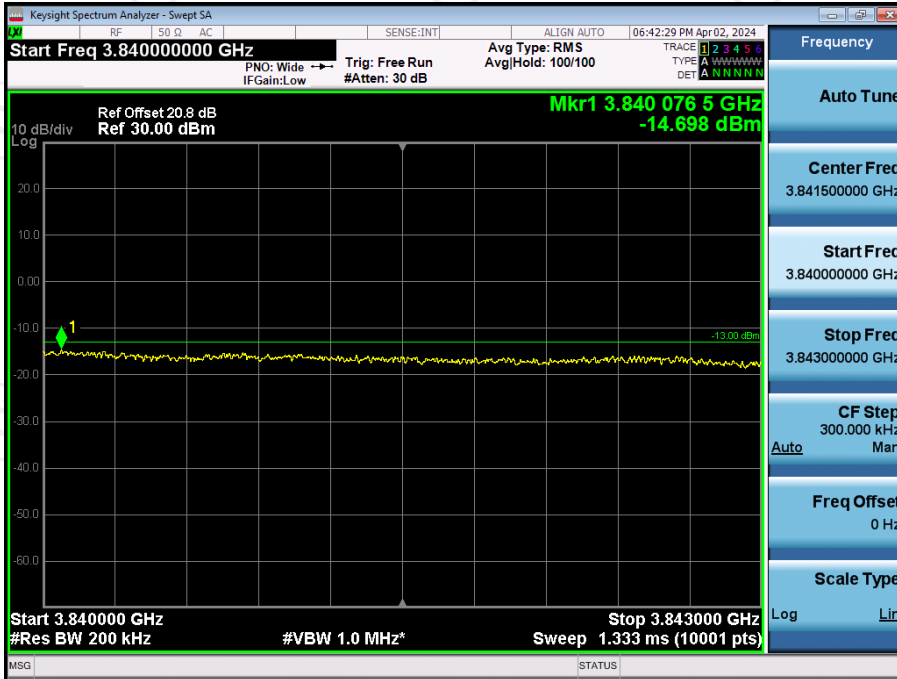
5G NR 20 MHz UL Left Side Pre AGC + 3 dB



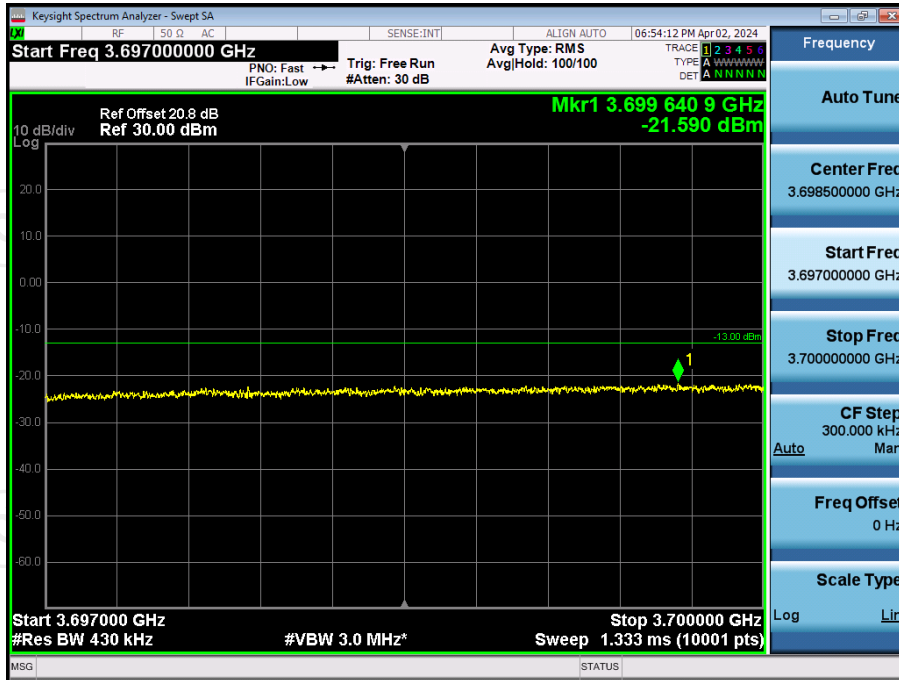
5G NR 20 MHz UL Right Side Pre AGC



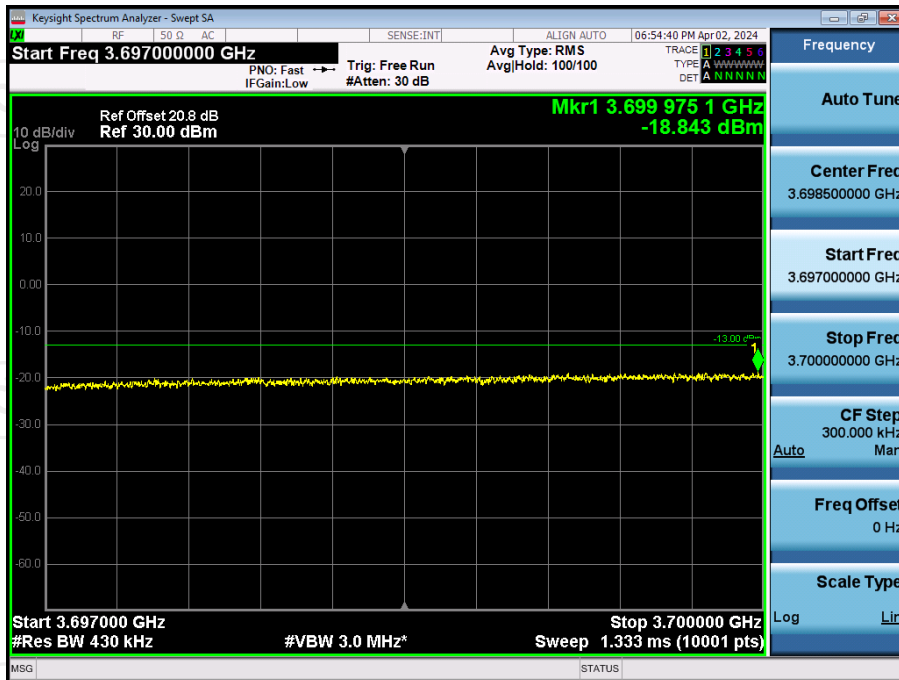
5G NR 20 MHz UL Right Side Pre AGC + 3 dB



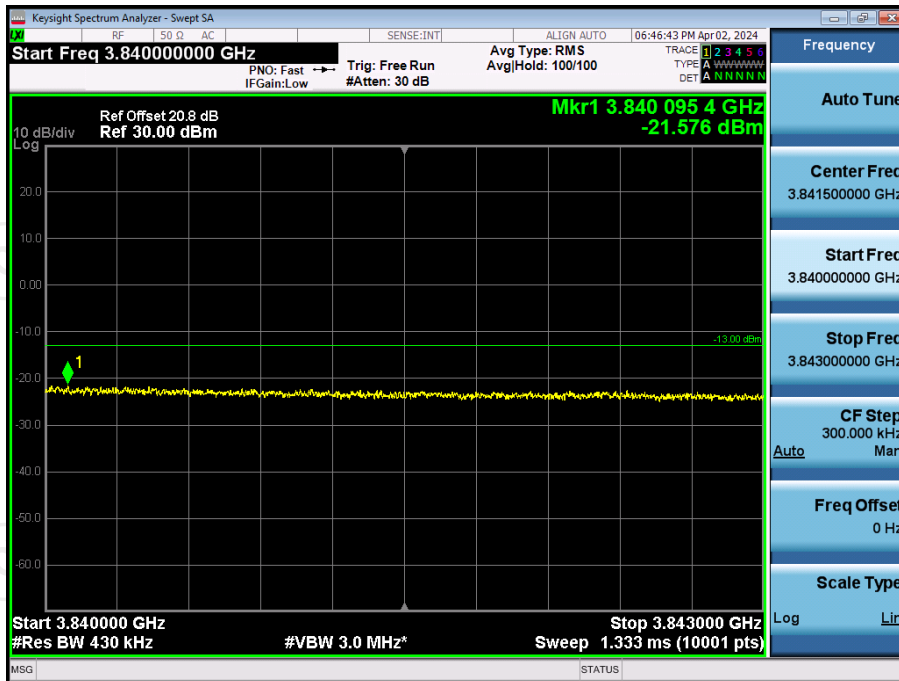
5G NR 40 MHz UL Left Side Pre AGC



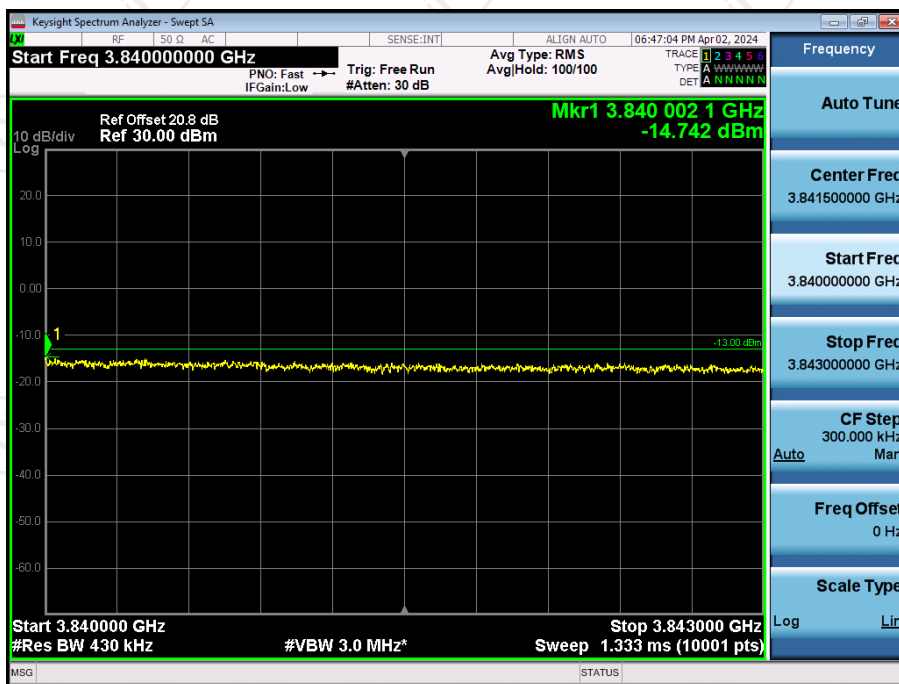
5G NR 40 MHz UL Left Side Pre AGC + 3 dB



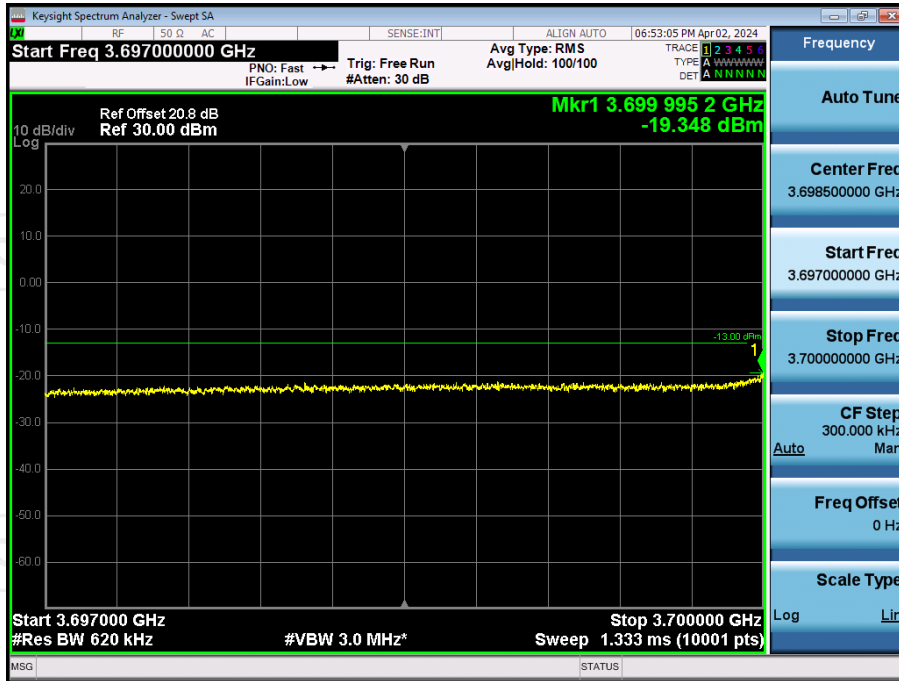
5G NR 40 MHz UL Right Side Pre AGC



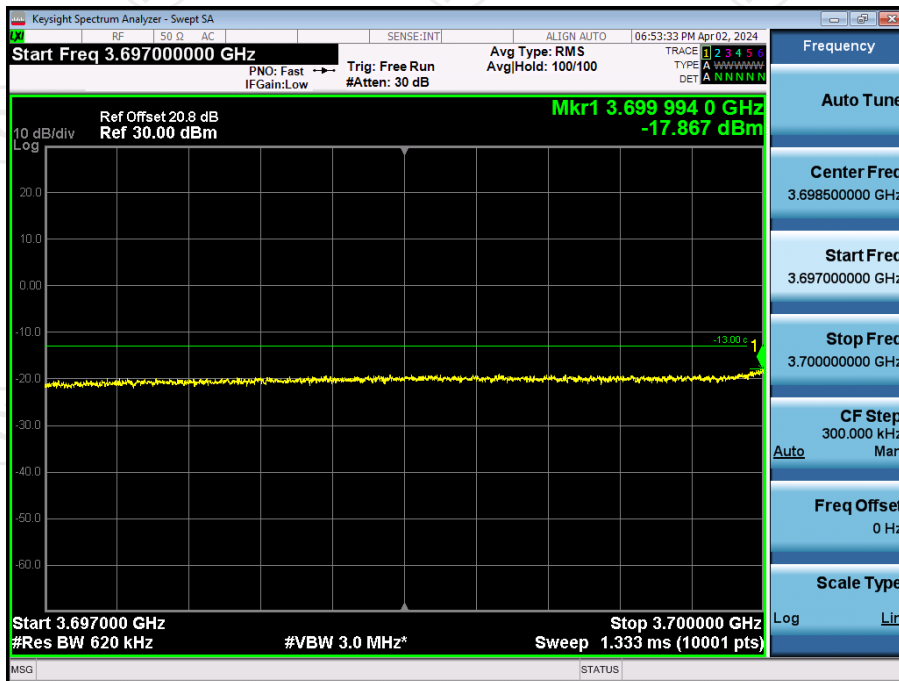
5G NR 40 MHz UL Right Side Pre AGC + 3 dB



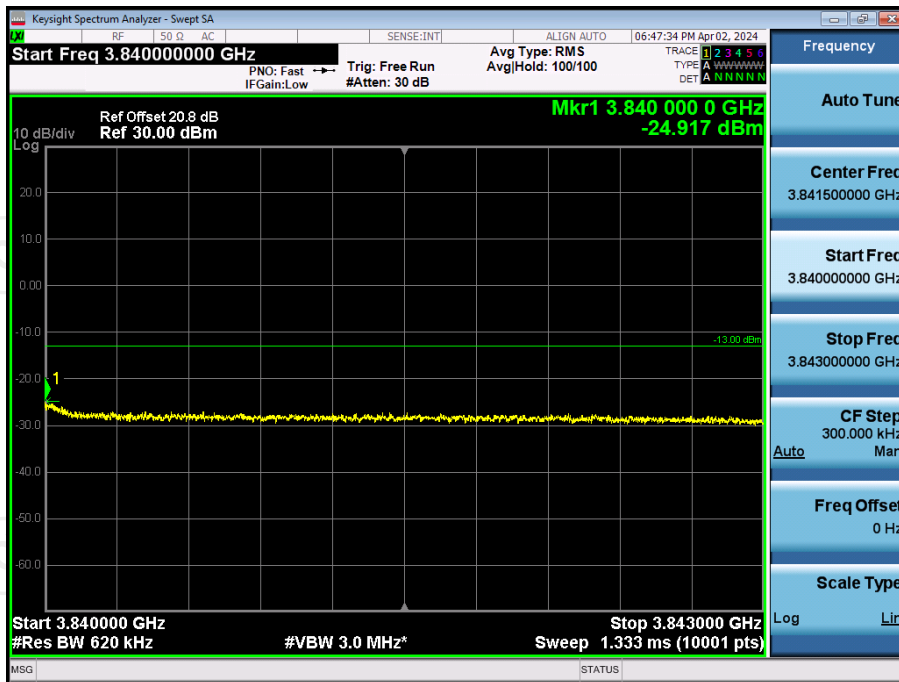
5G NR 60 MHz UL Left Side Pre AGC



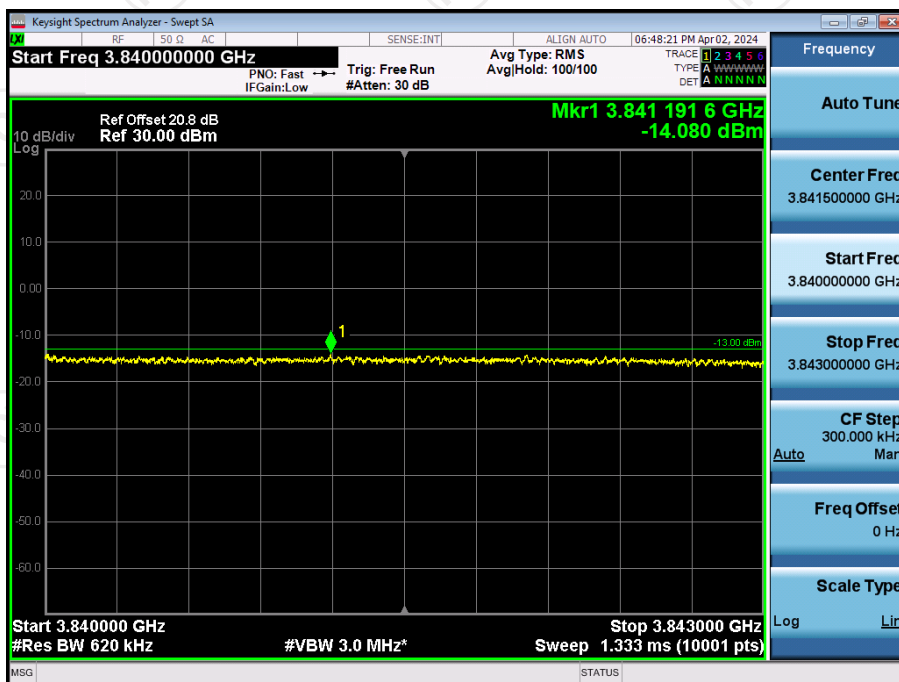
5G NR 60 MHz UL Left Side Pre AGC + 3 dB



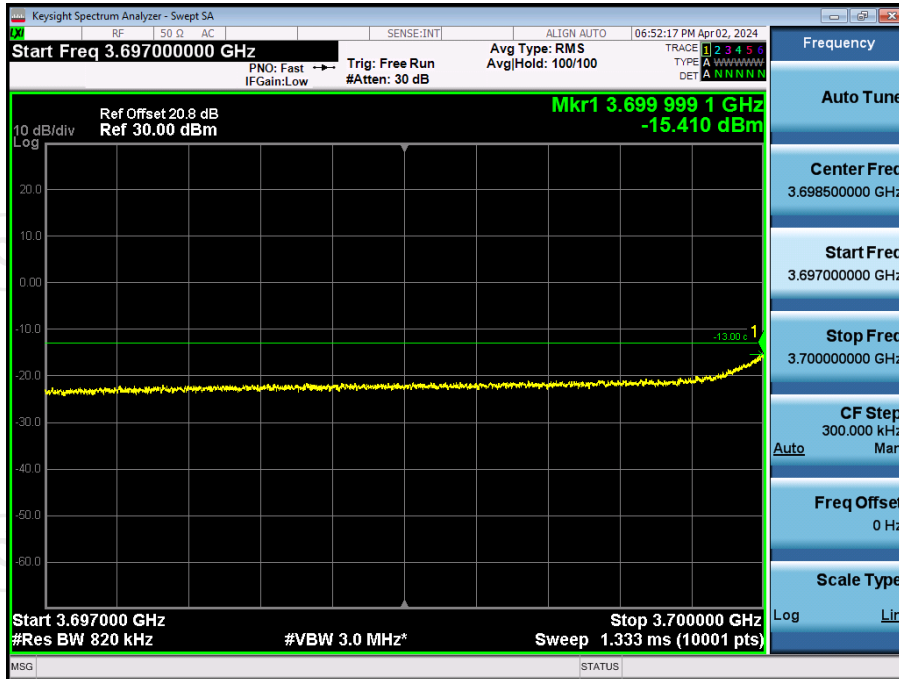
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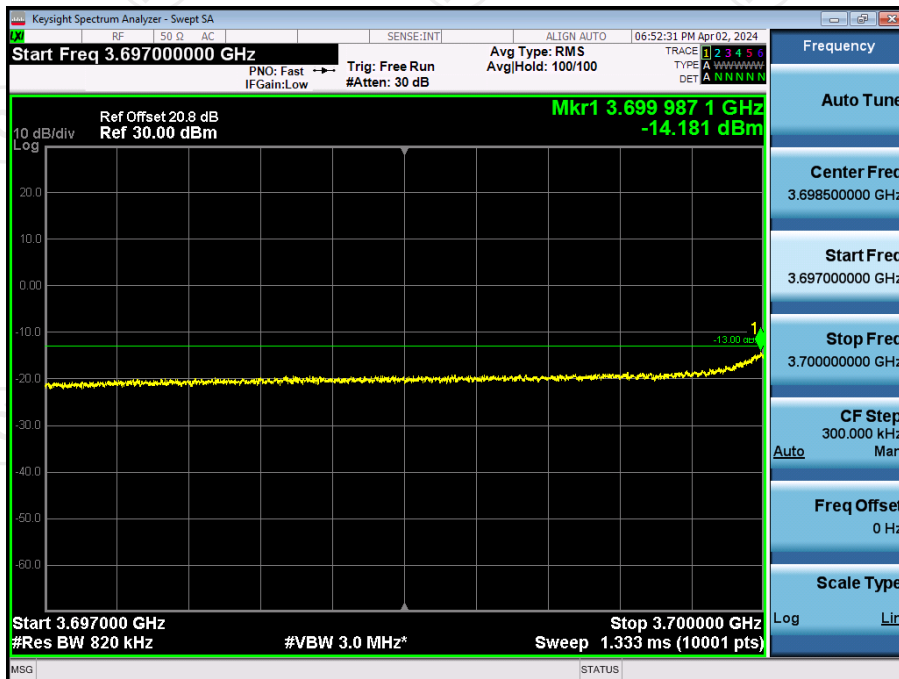
5G NR 60 MHz UL Right Side Pre AGC + 3 dB



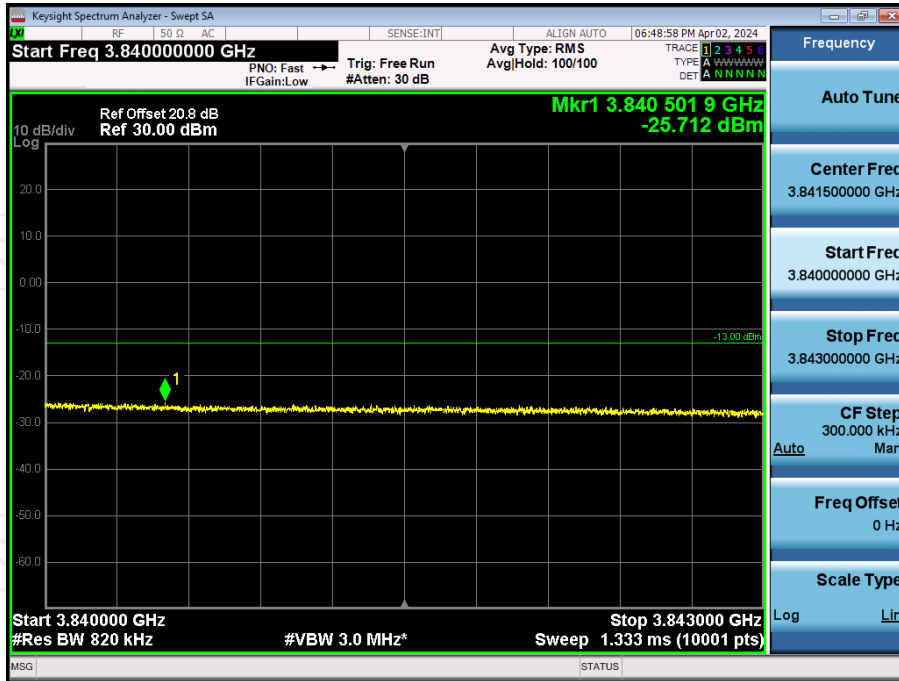
5G NR 80 MHz UL Left Side Pre AGC



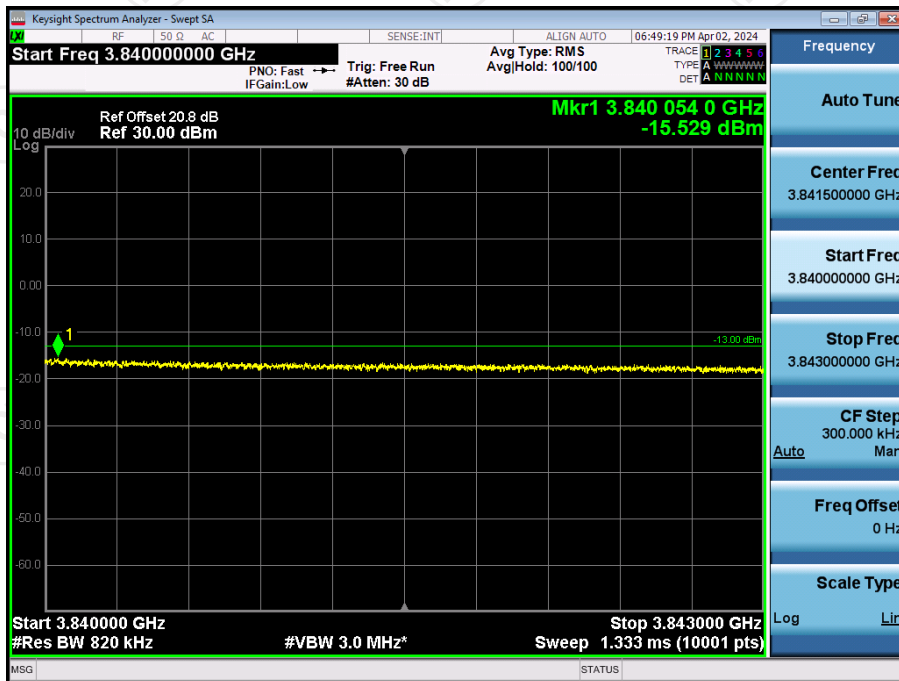
5G NR 80 MHz UL Left Side Pre AGC + 3 dB



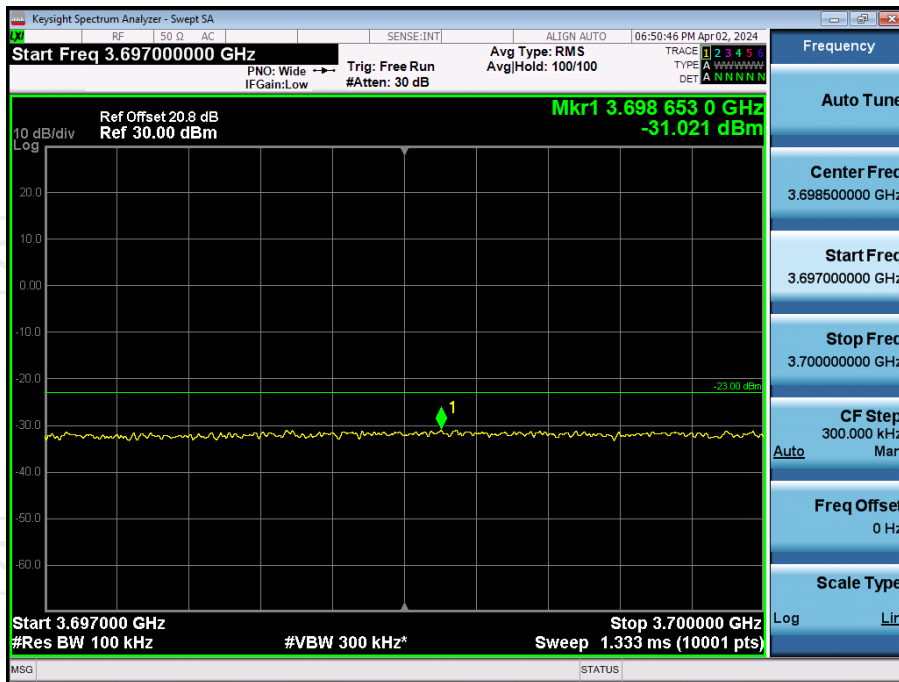
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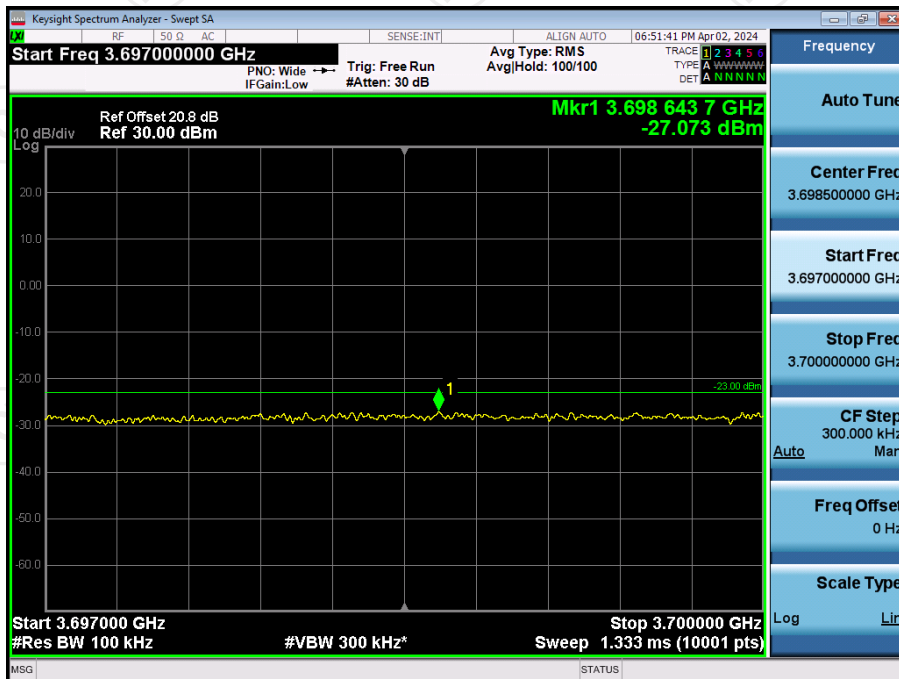
5G NR 80 MHz UL Right Side Pre AGC + 3 dB



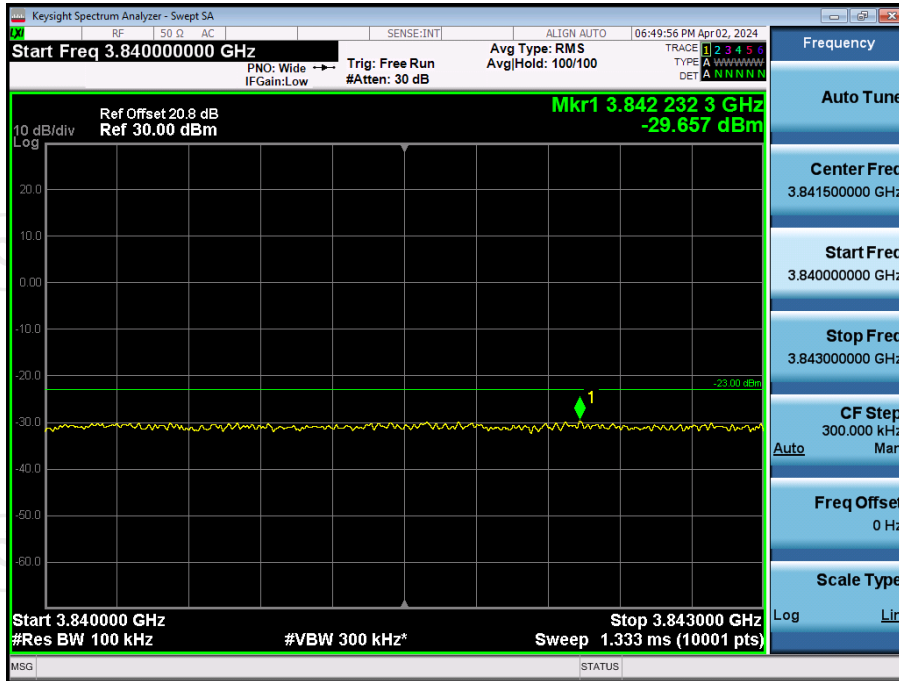
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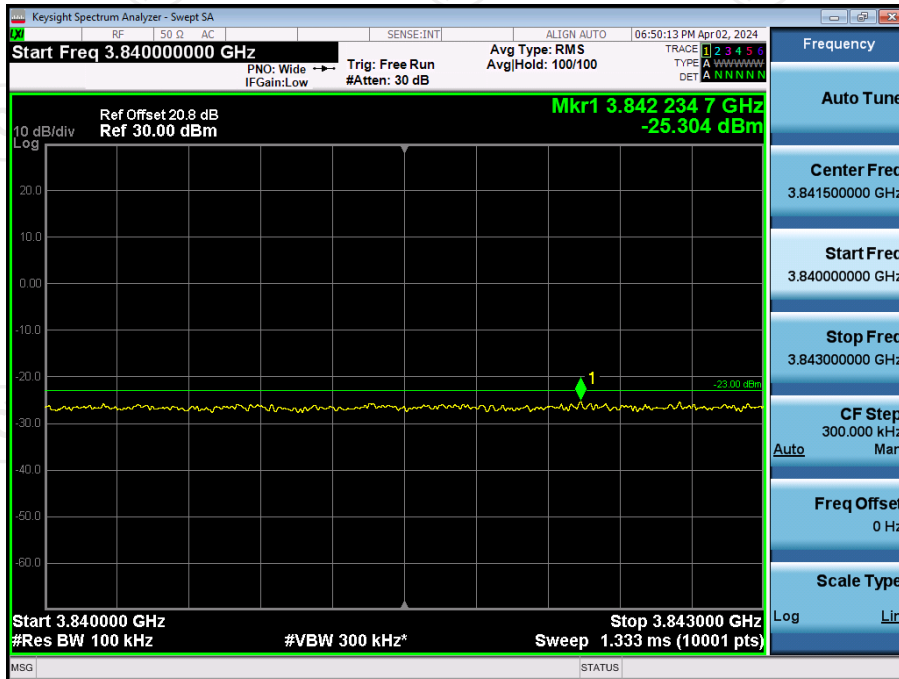
5G NR 100 MHz UL Left Side Pre AGC + 3 dB



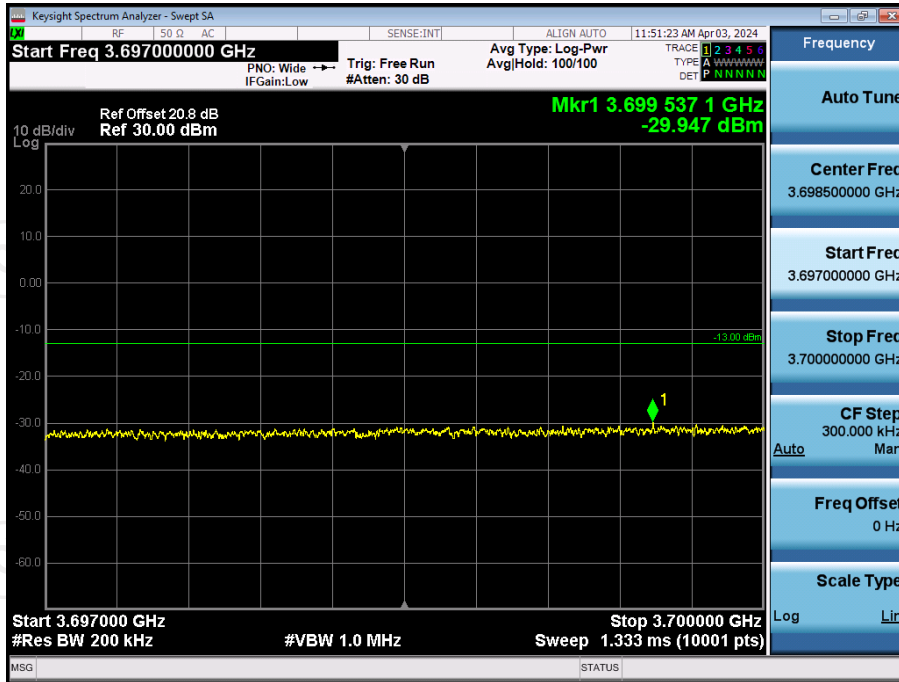
5G NR 100 MHz UL Right Side Pre AGC



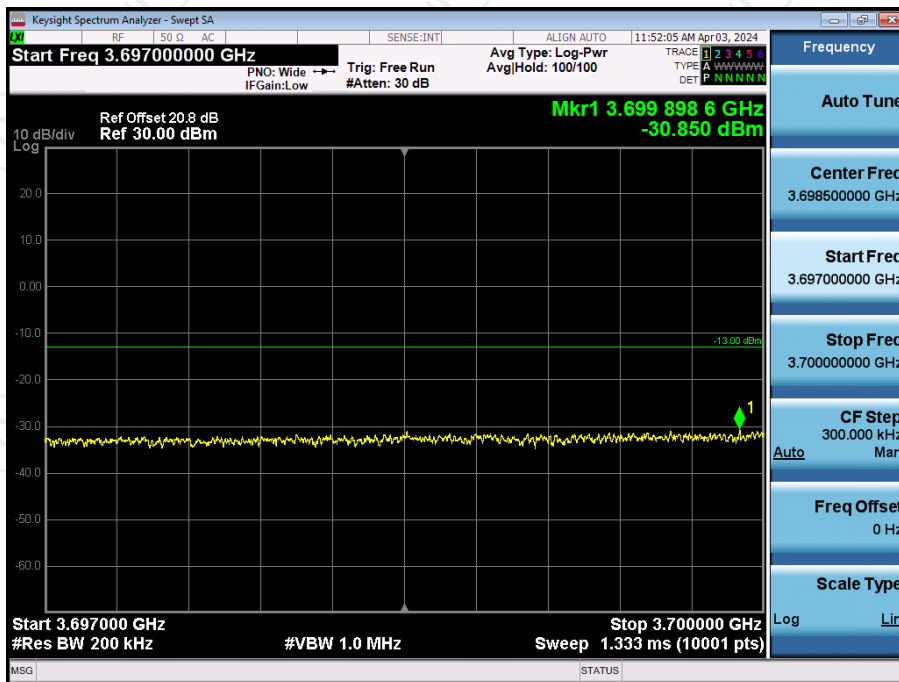
5G NR 100 MHz UL Right Side Pre AGC + 3 dB



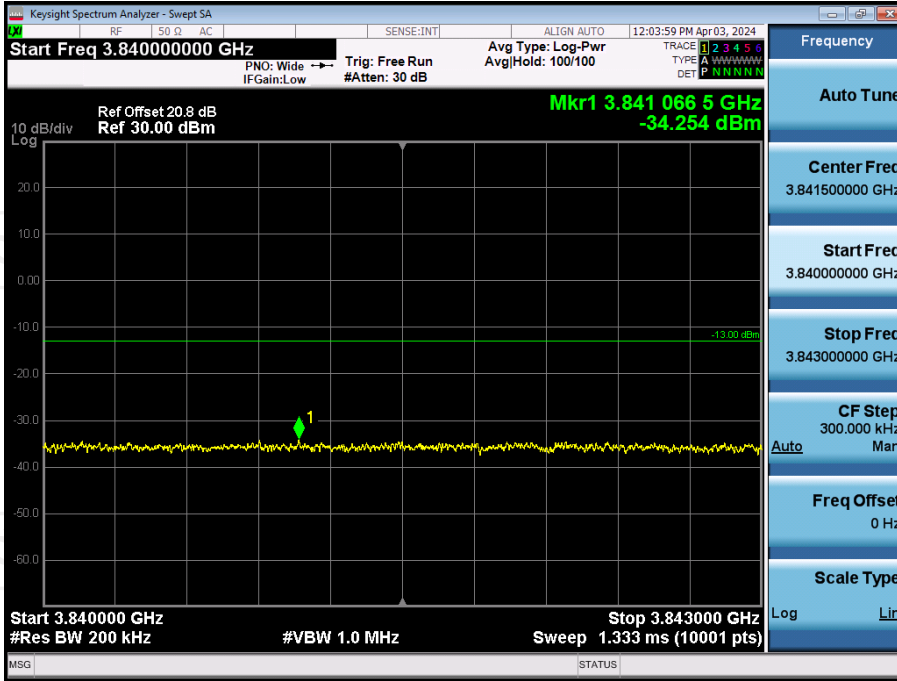
5G NR 20 MHz DL Left Side Pre AGC



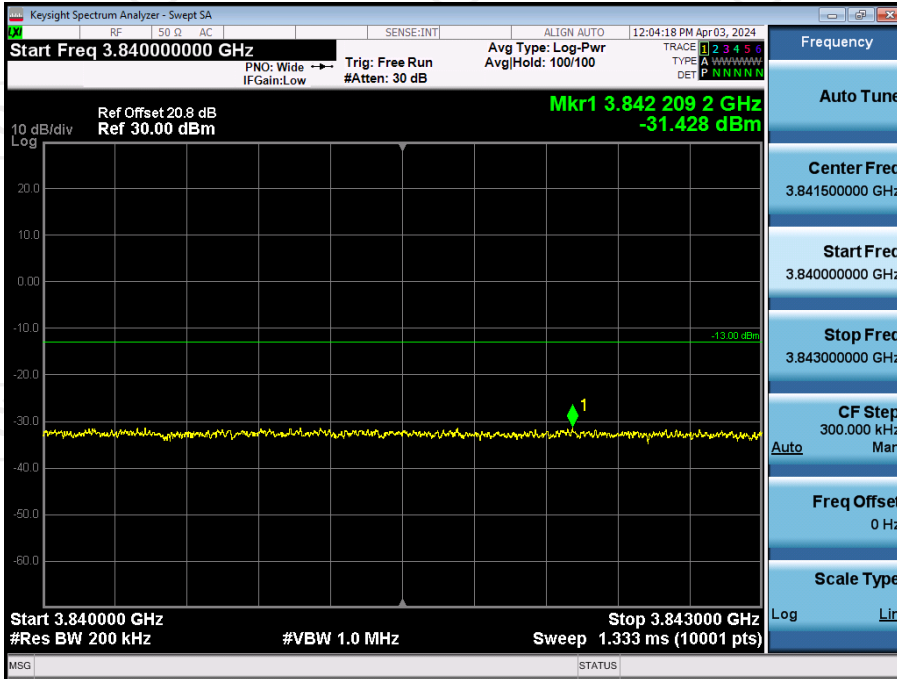
5G NR 20 MHz DL Left Side Pre AGC + 3 dB



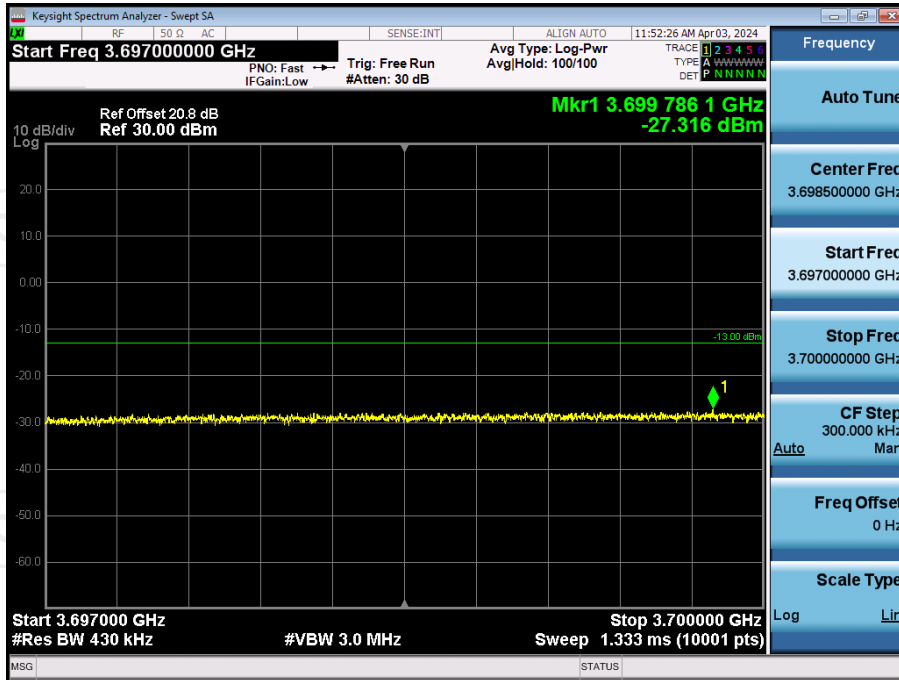
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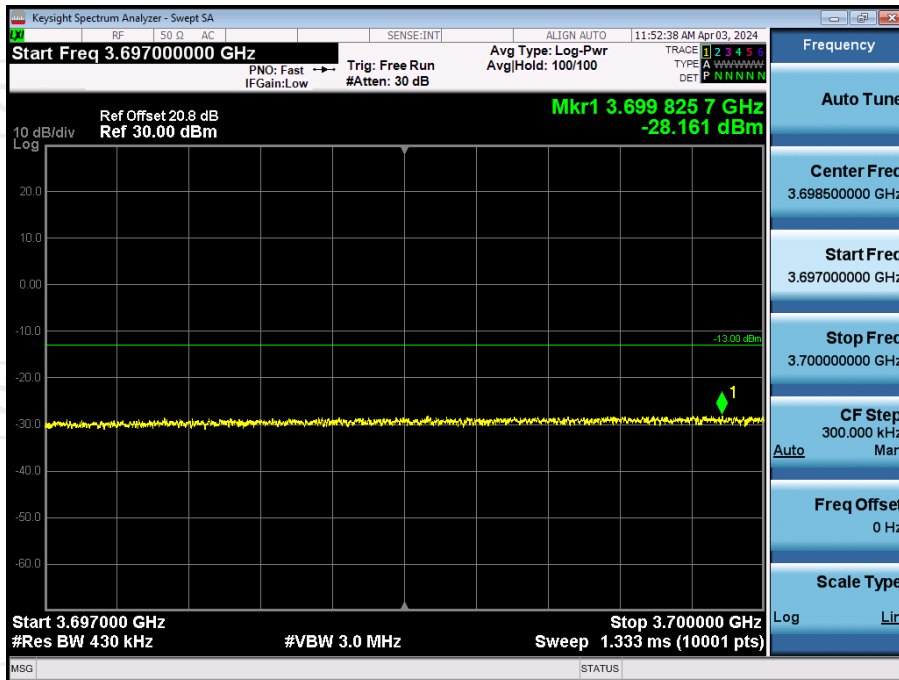
5G NR 20 MHz DL Right Side Pre AGC + 3 dB



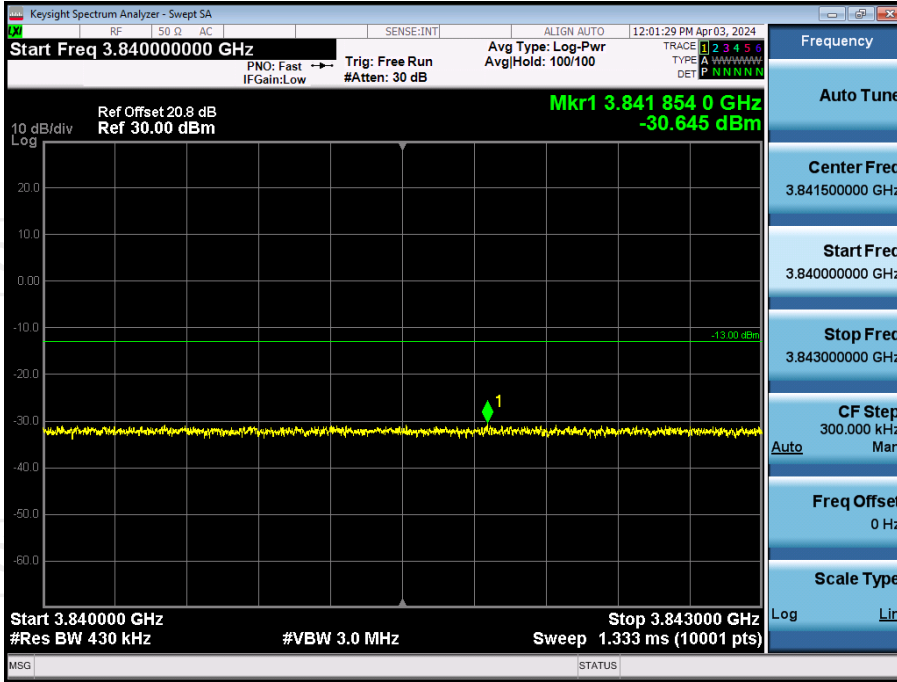
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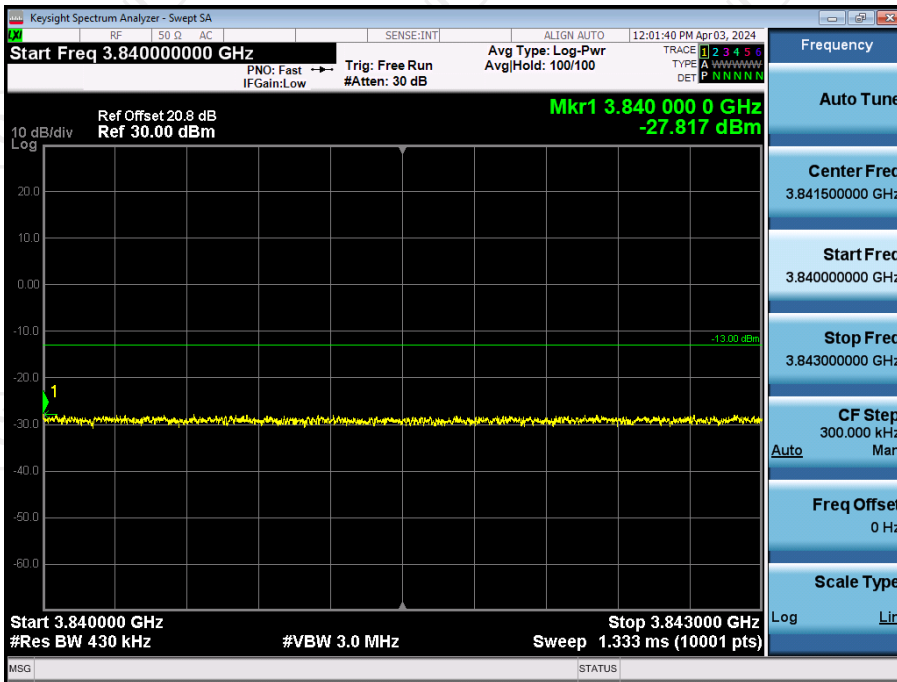
5G NR 40 MHz DL Left Side Pre AGC + 3 dB



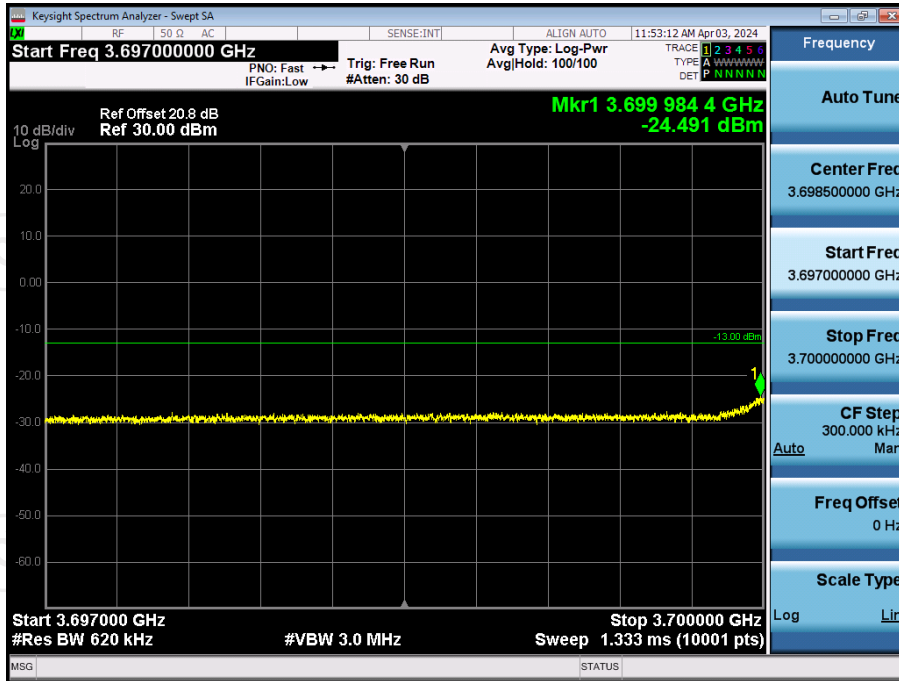
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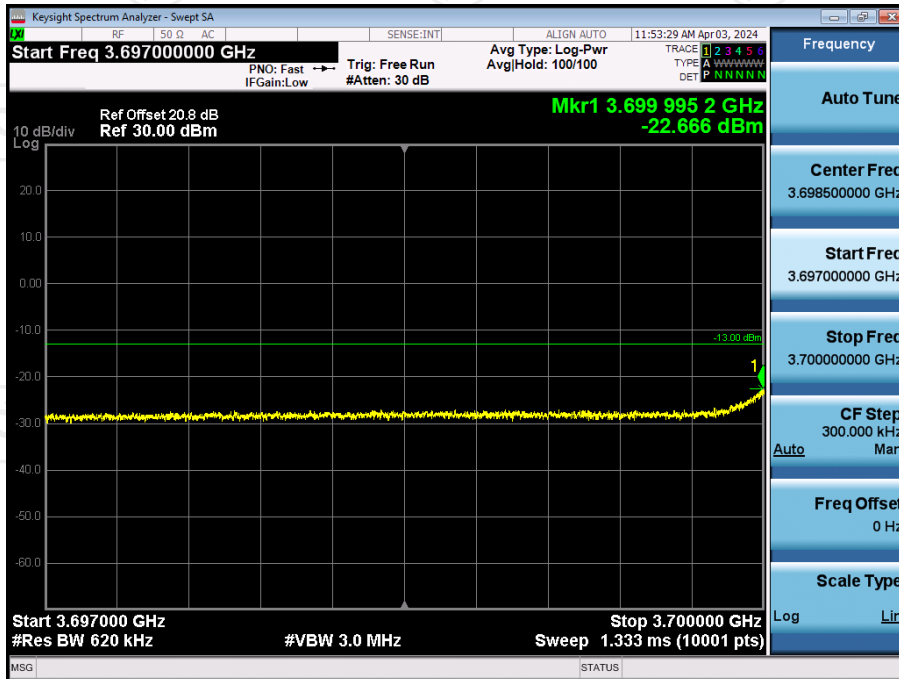
5G NR 40 MHz DL Right Side Pre AGC + 3 dB



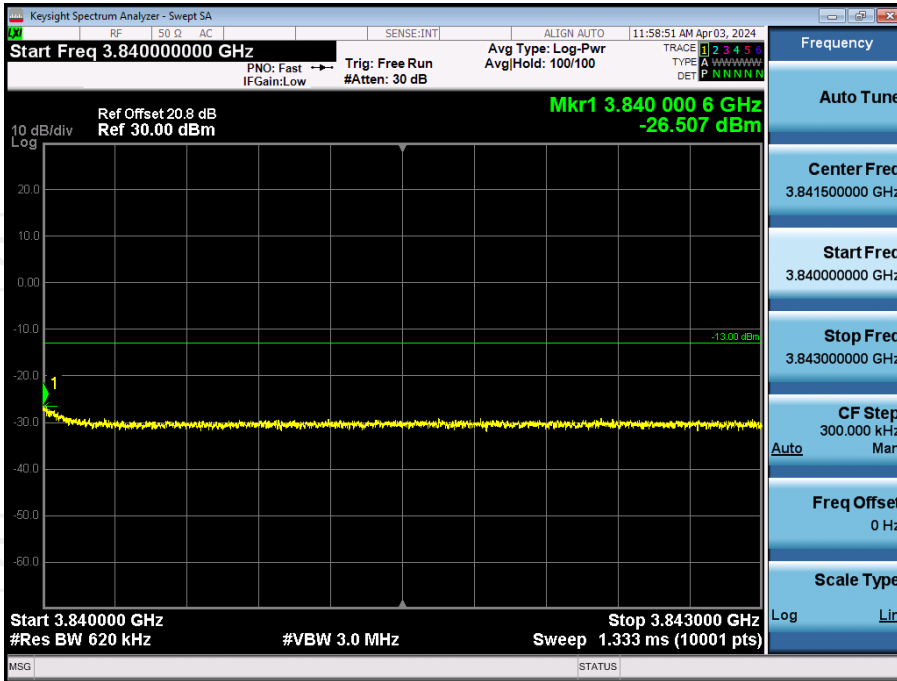
5G NR 60 MHz DL Left Side Pre AGC



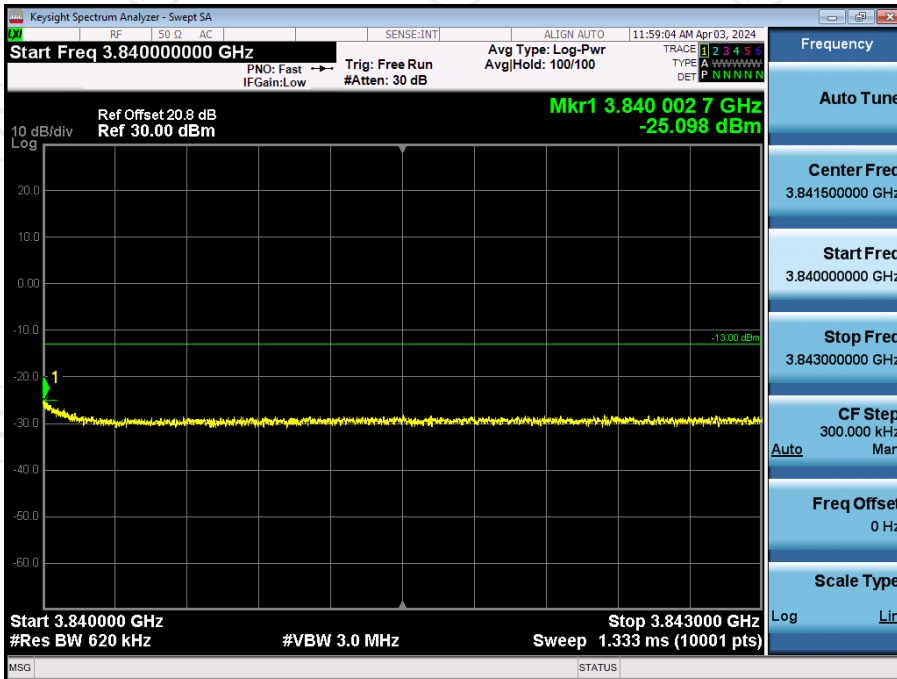
5G NR 60 MHz DL Left Side Pre AGC + 3 dB



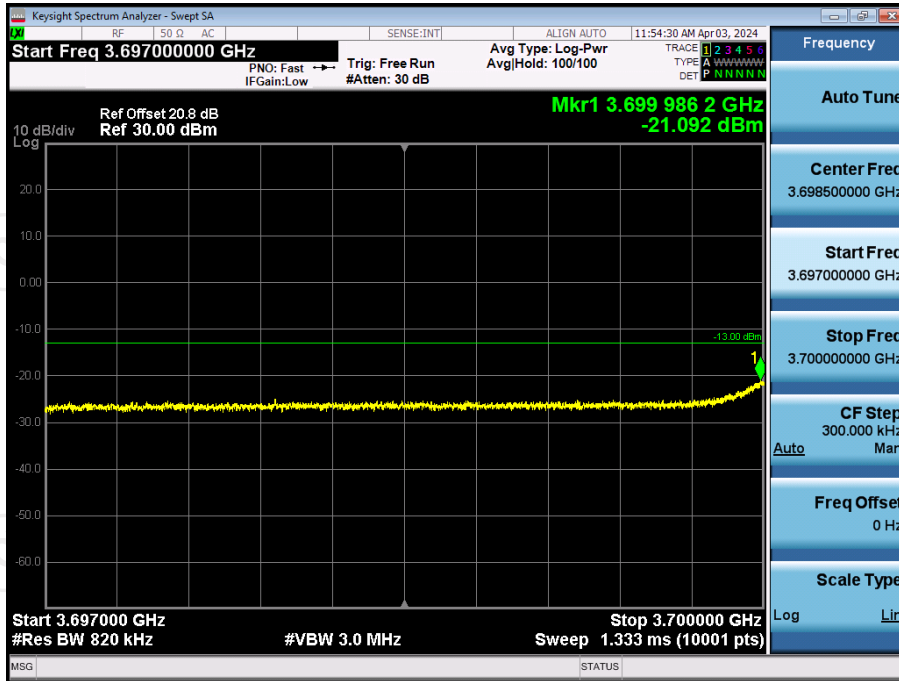
5G NR 60 MHz DL Right Side Pre AGC



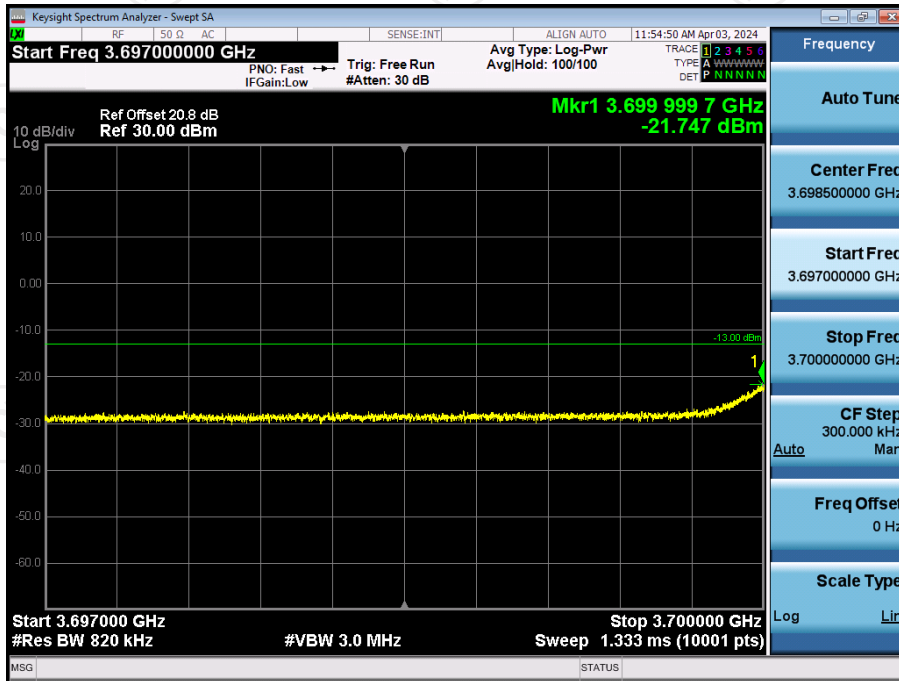
5G NR 60 MHz DL Right Side Pre AGC + 3 dB



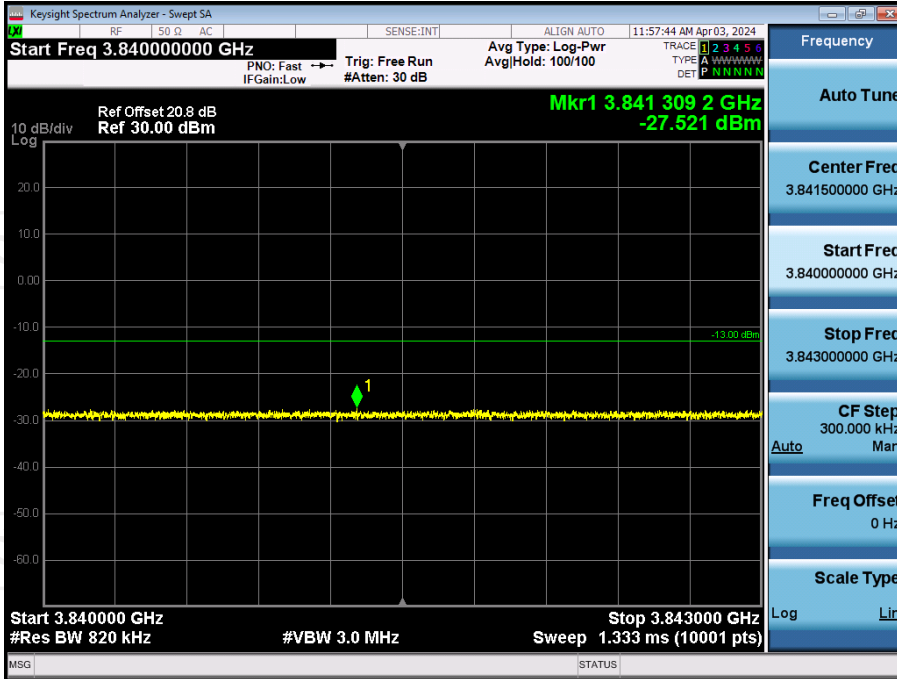
5G NR 80 MHz DL Left Side Pre AGC



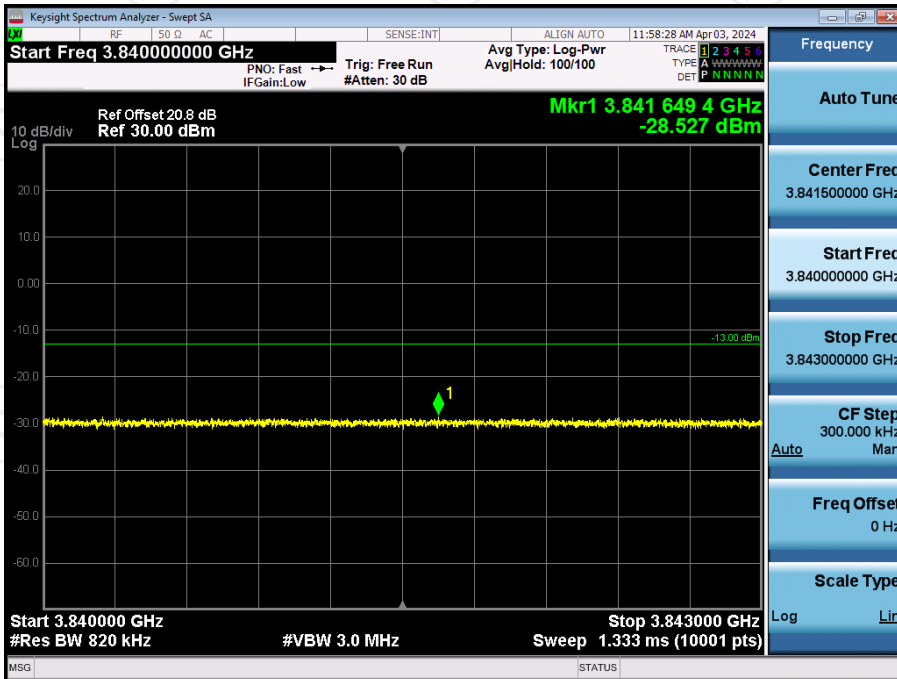
5G NR 80 MHz DL Left Side Pre AGC + 3 dB



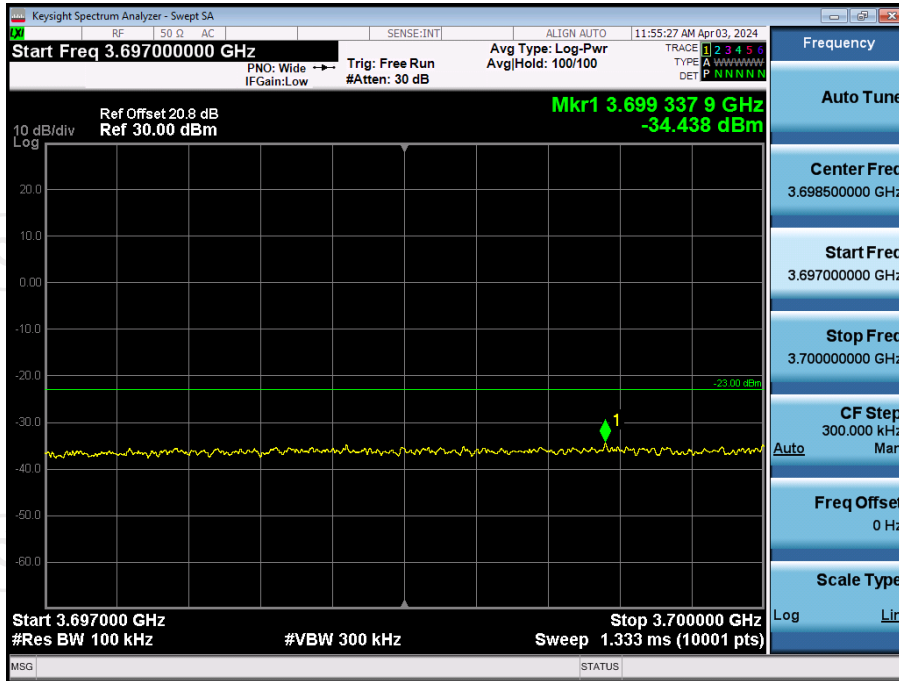
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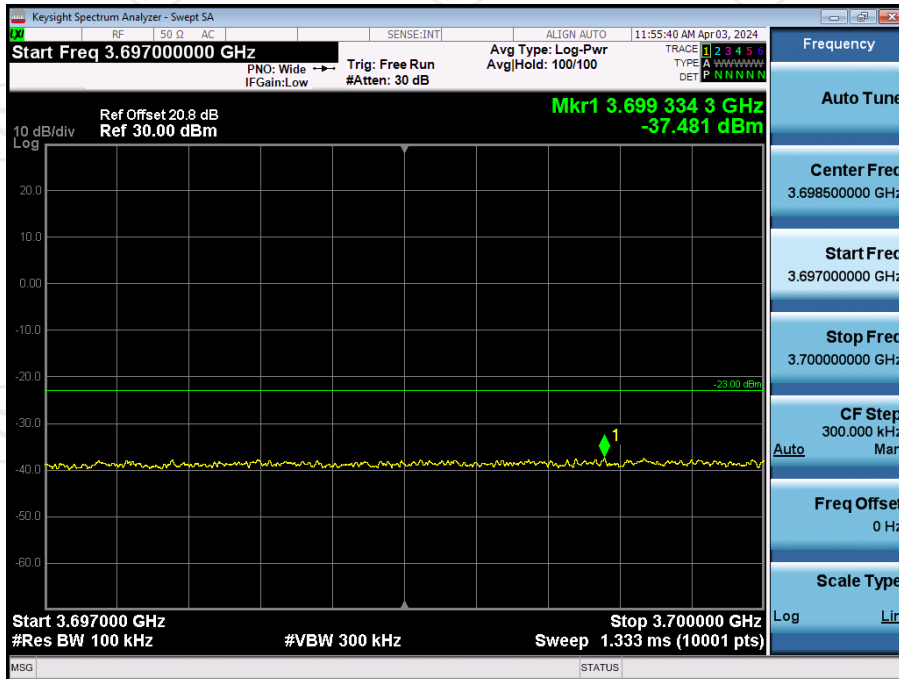
5G NR 80 MHz DL Right Side Pre AGC + 3 dB



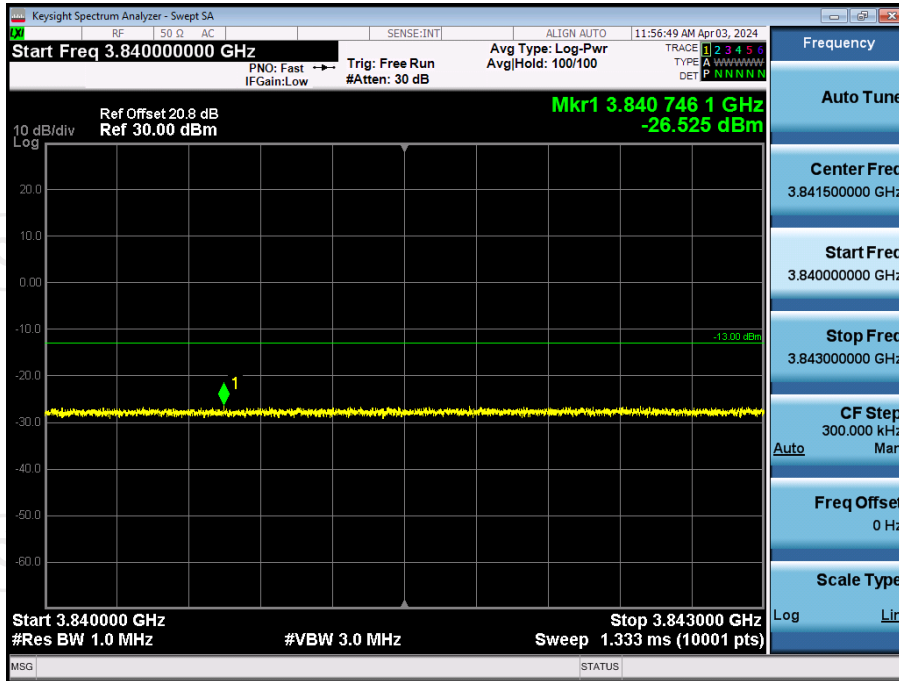
5G NR 100 MHz DL Left Side Pre AGC



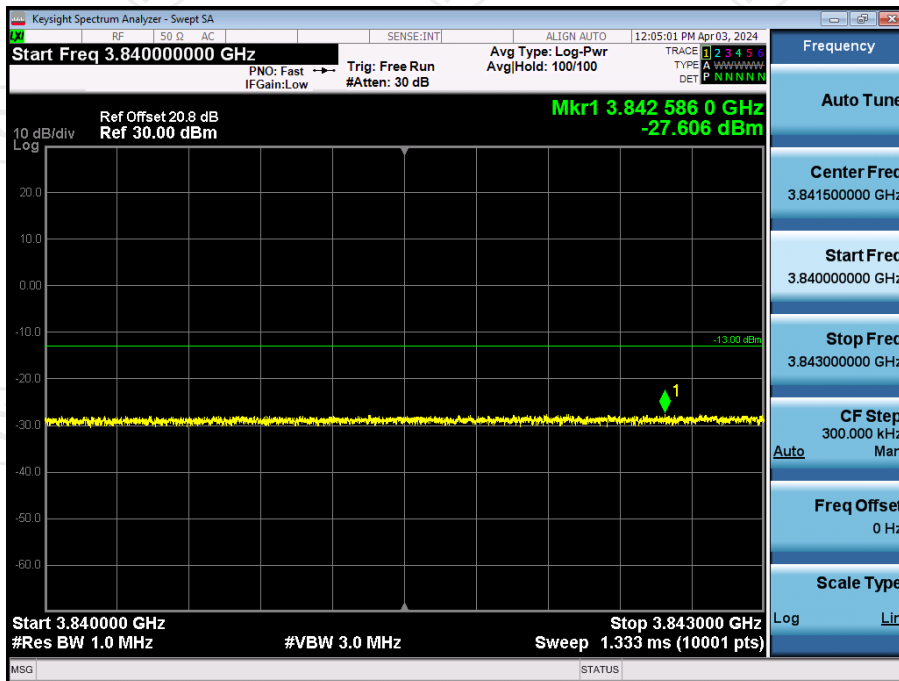
5G NR 100 MHz DL Left Side Pre AGC + 3 dB



5G NR 100 MHz DL Right Side Pre AGC



5G NR 100 MHz DL Right Side Pre AGC + 3 dB

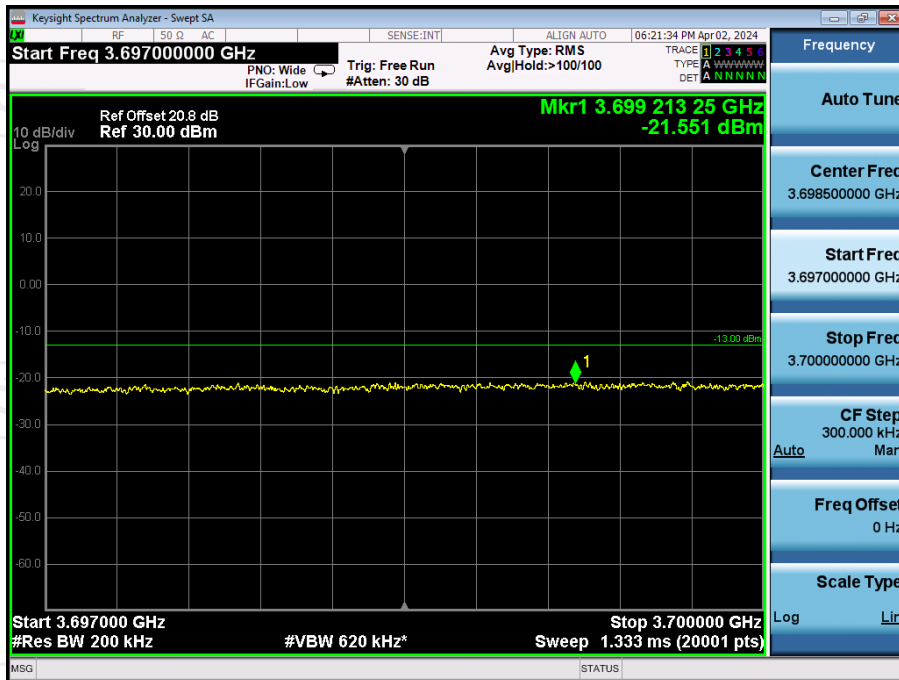


Path2 Sub-Band Mode Two Adjacent Signal

5G NR 20 MHz UL Left Side Pre AGC



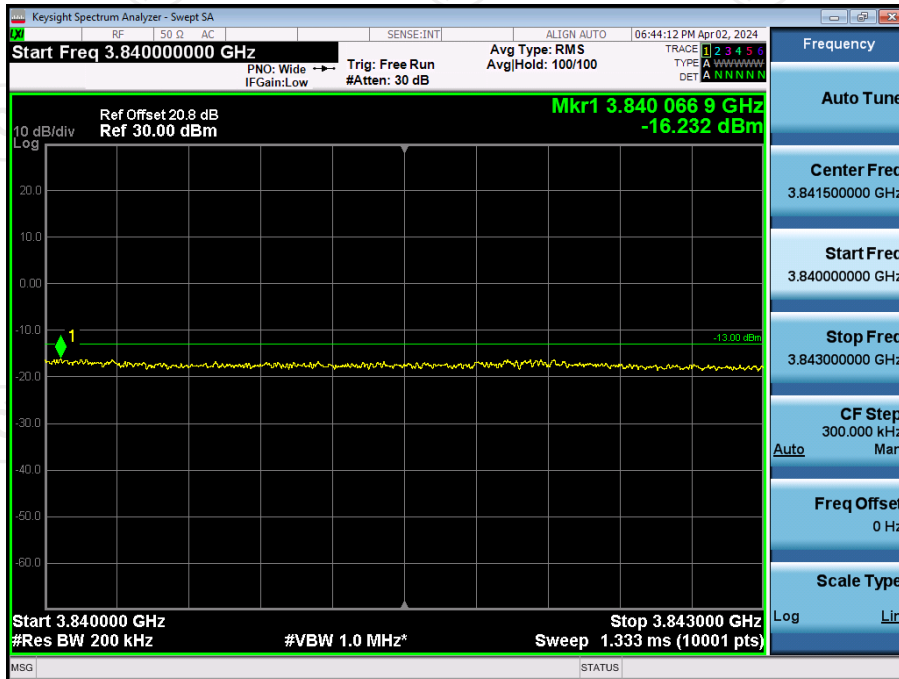
5G NR 20 MHz UL Left Side Pre AGC + 3 dB



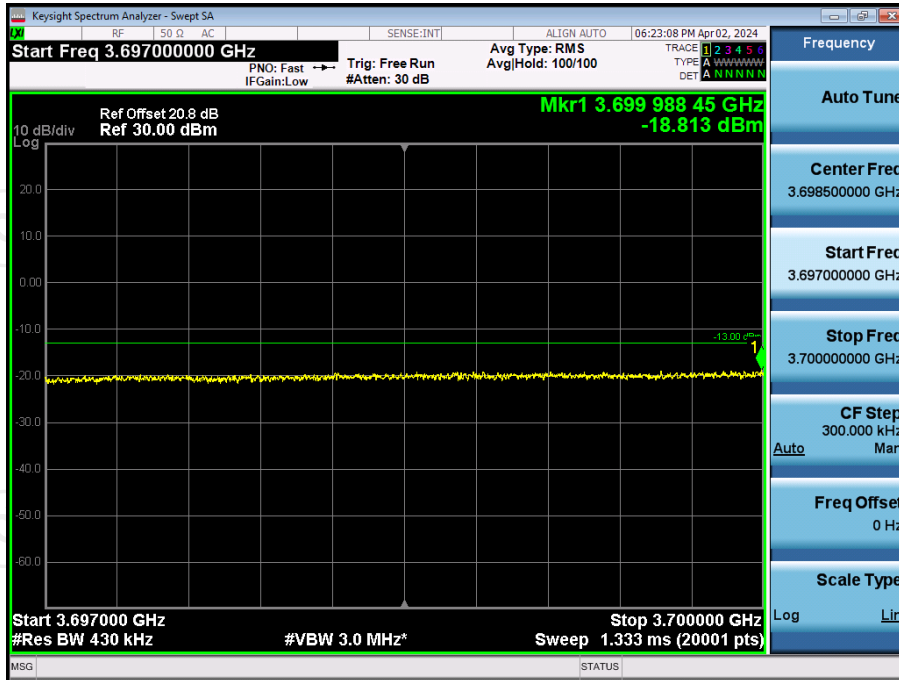
5G NR 20 MHz UL Right Side Pre AGC



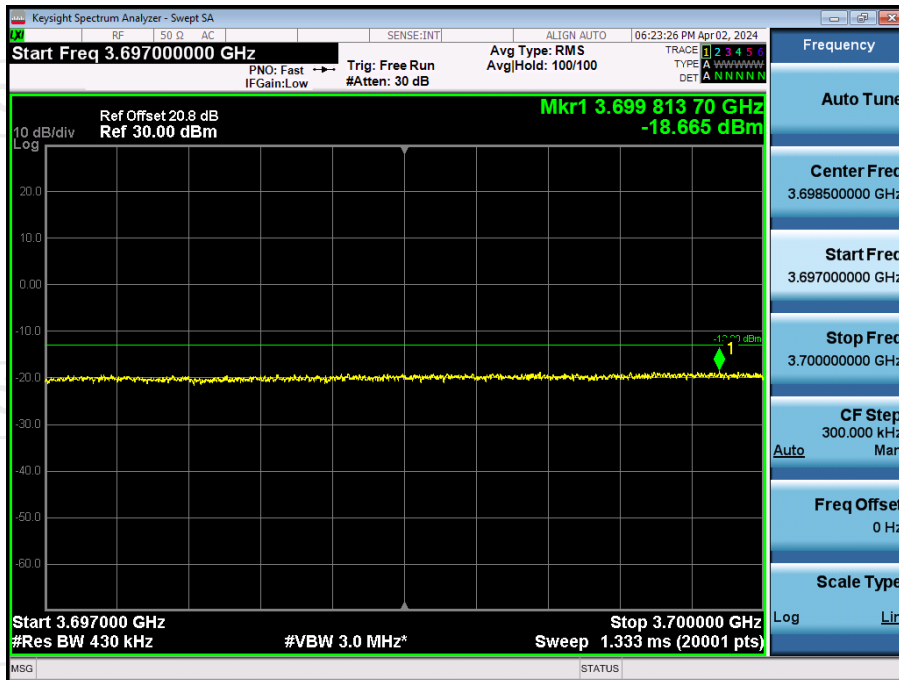
5G NR 20 MHz UL Right Side Pre AGC + 3 dB



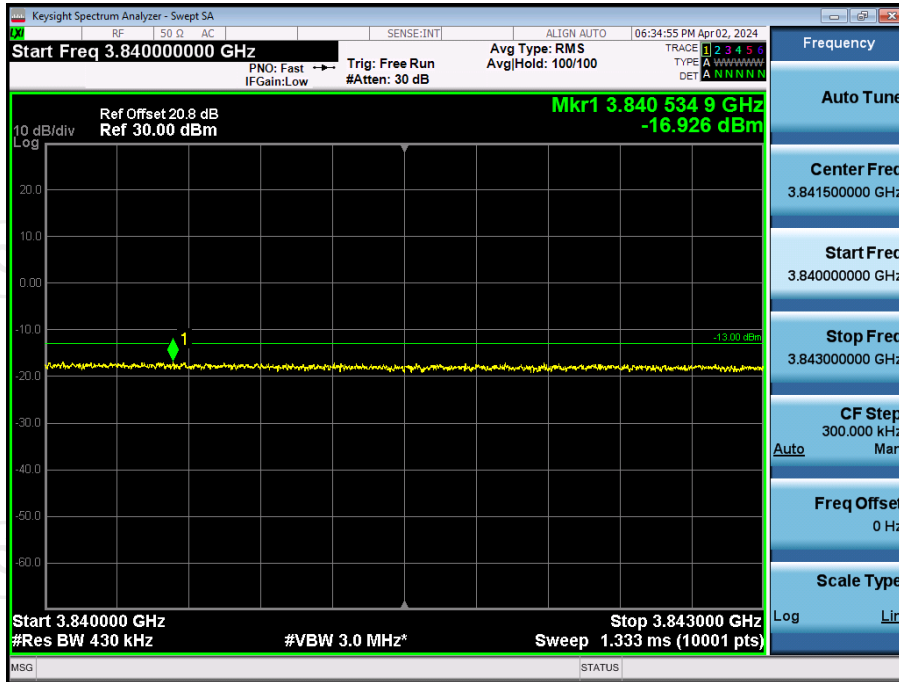
5G NR 40 MHz UL Left Side Pre AGC



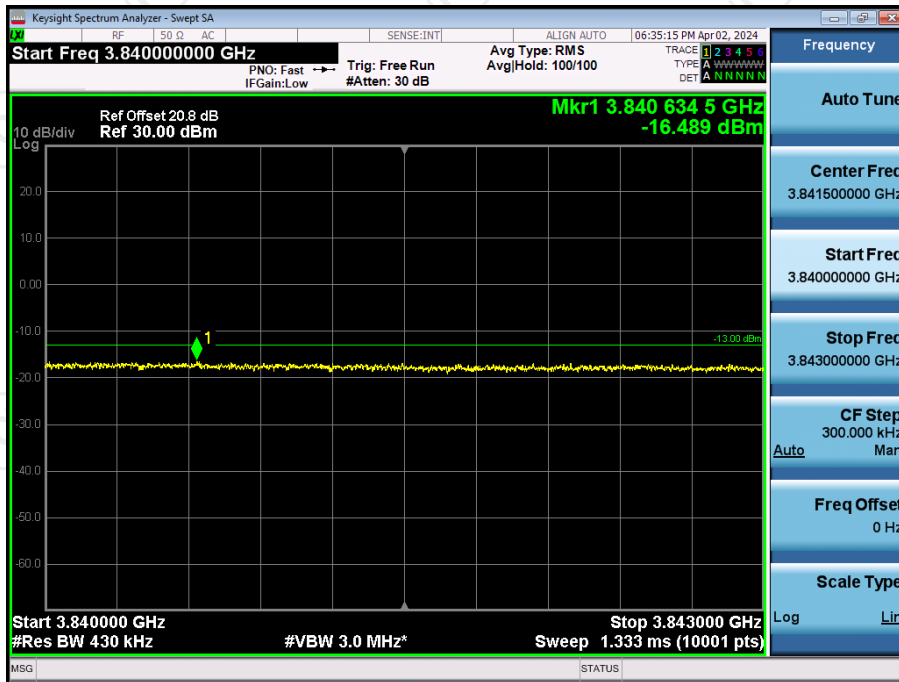
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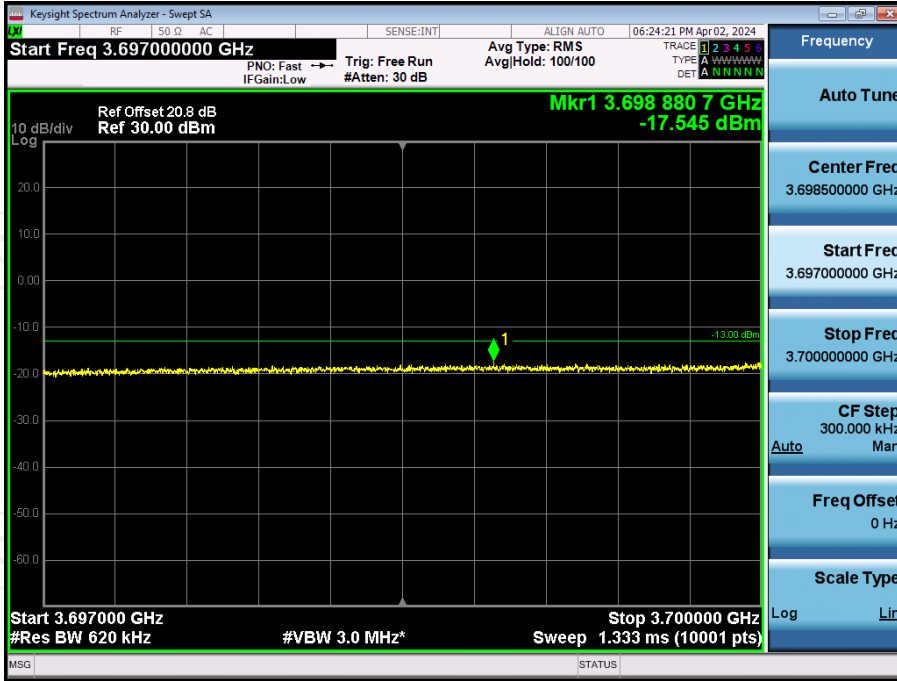
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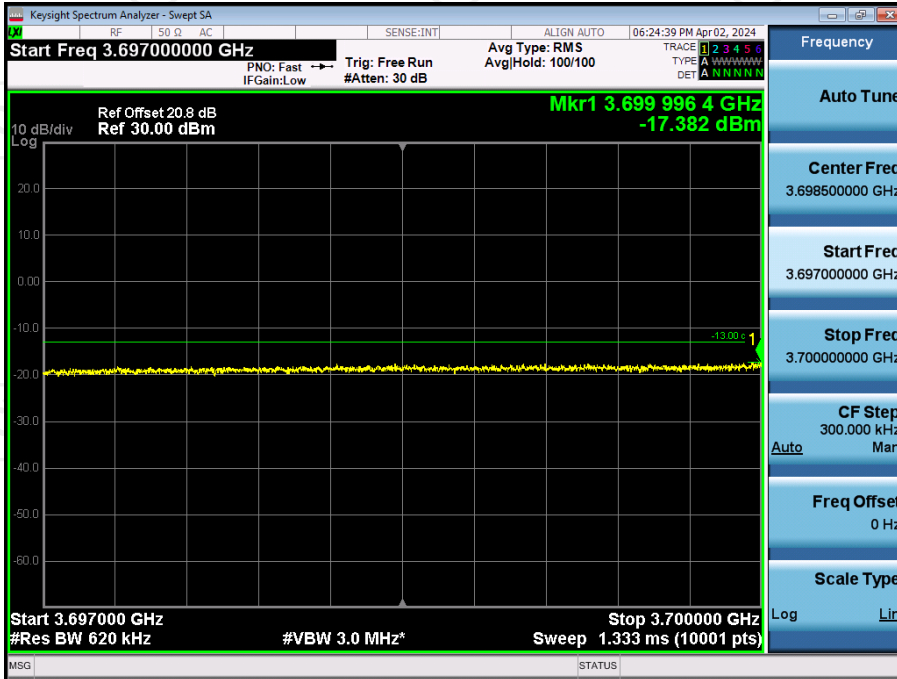
5G NR 40 MHz UL Right Side Pre AGC + 3 dB



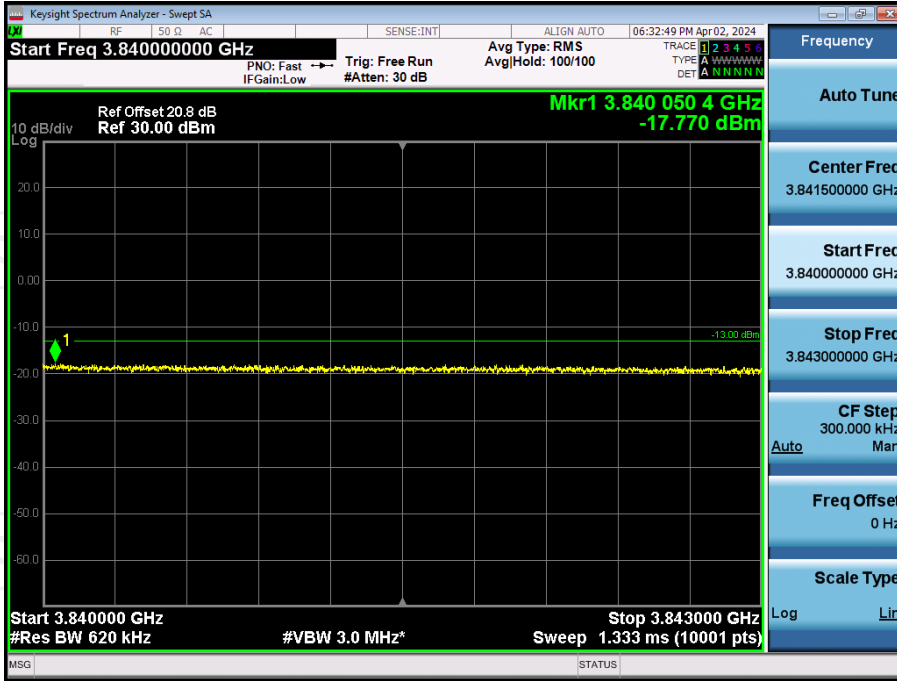
5G NR 60 MHz UL Left Side Pre AGC



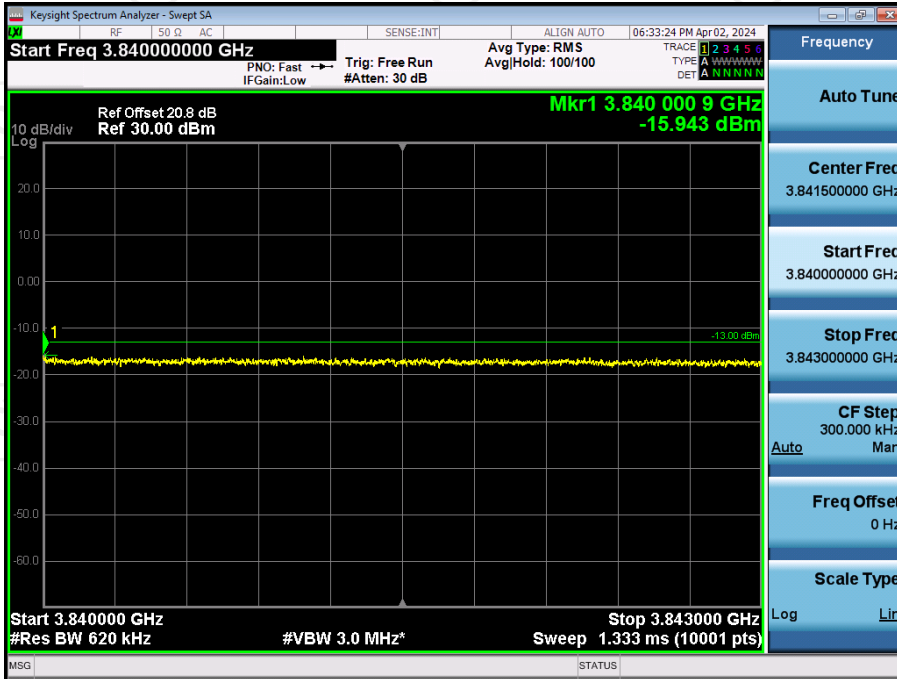
5G NR 60 MHz UL Left Side Pre AGC + 3 dB



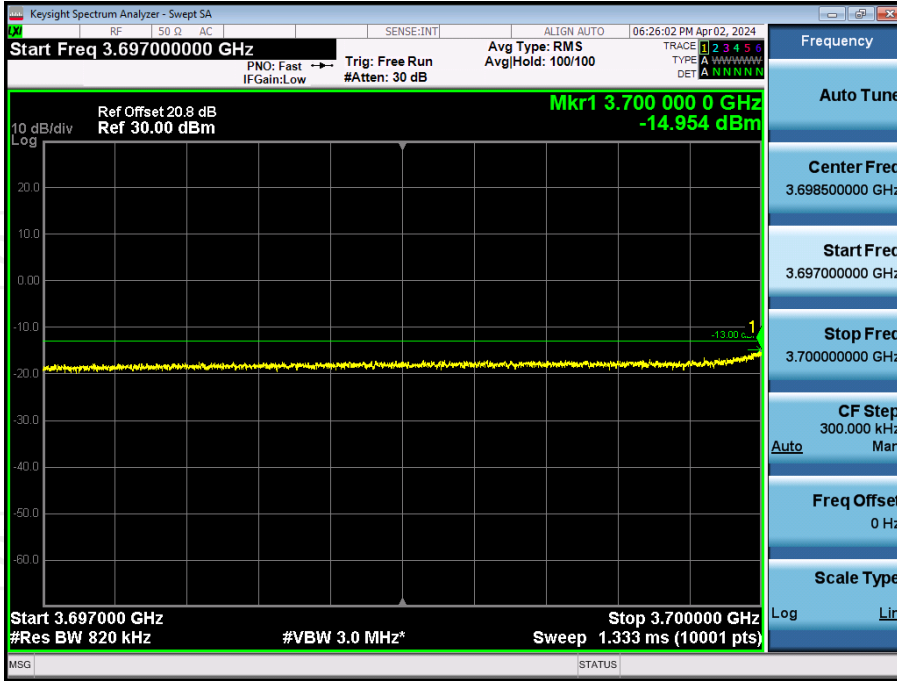
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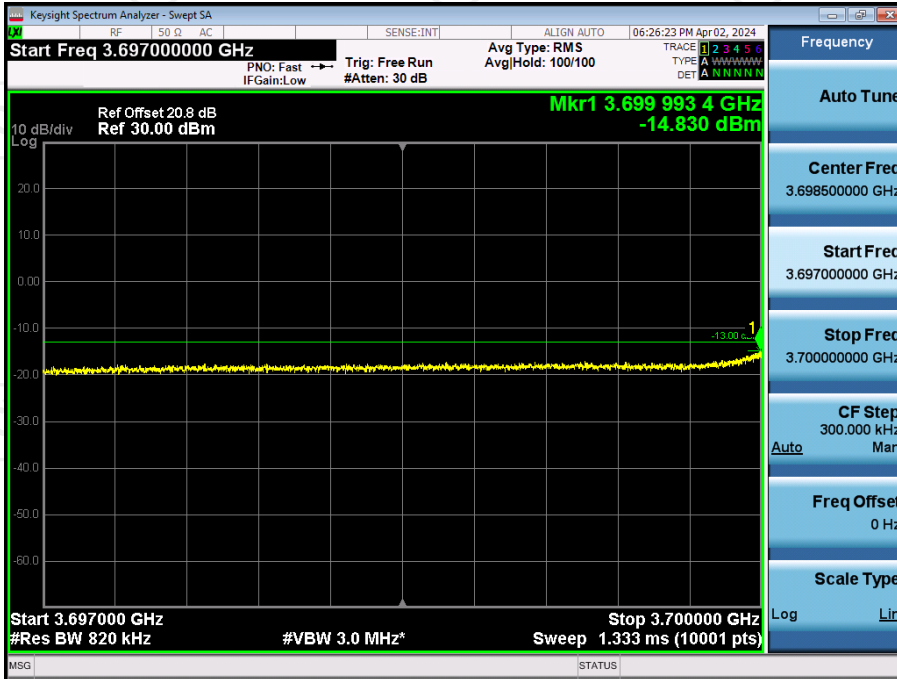
5G NR 60 MHz UL Right Side Pre AGC + 3 dB



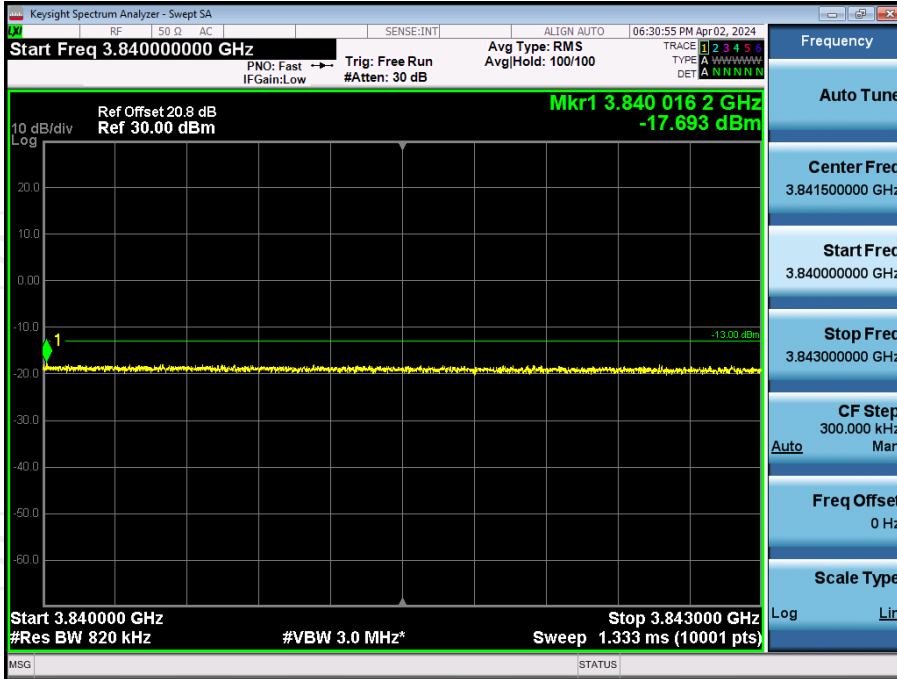
5G NR 80 MHz UL Left Side Pre AGC



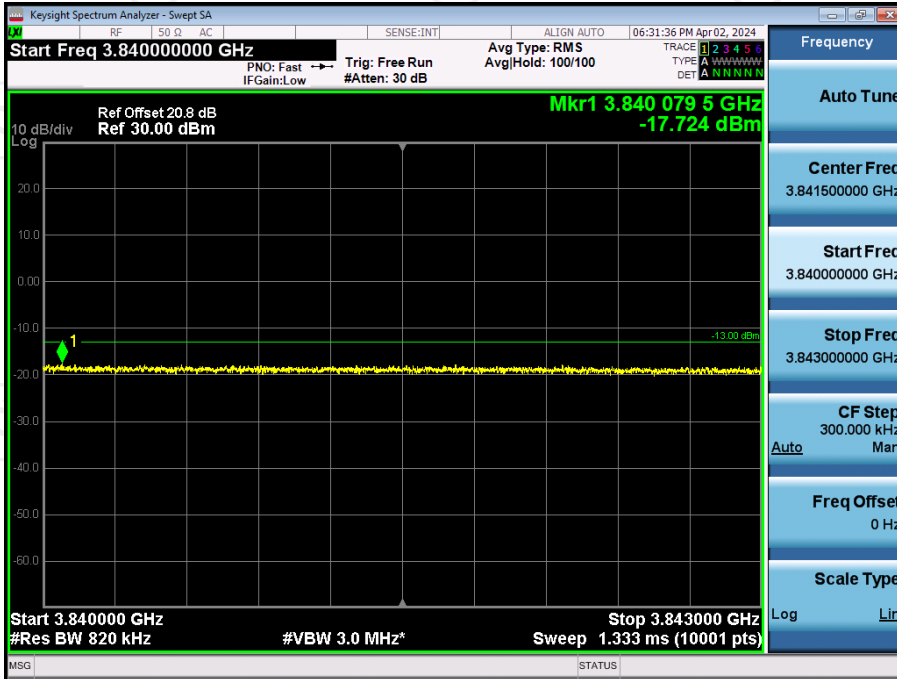
5G NR 80 MHz UL Left Side Pre AGC + 3 dB



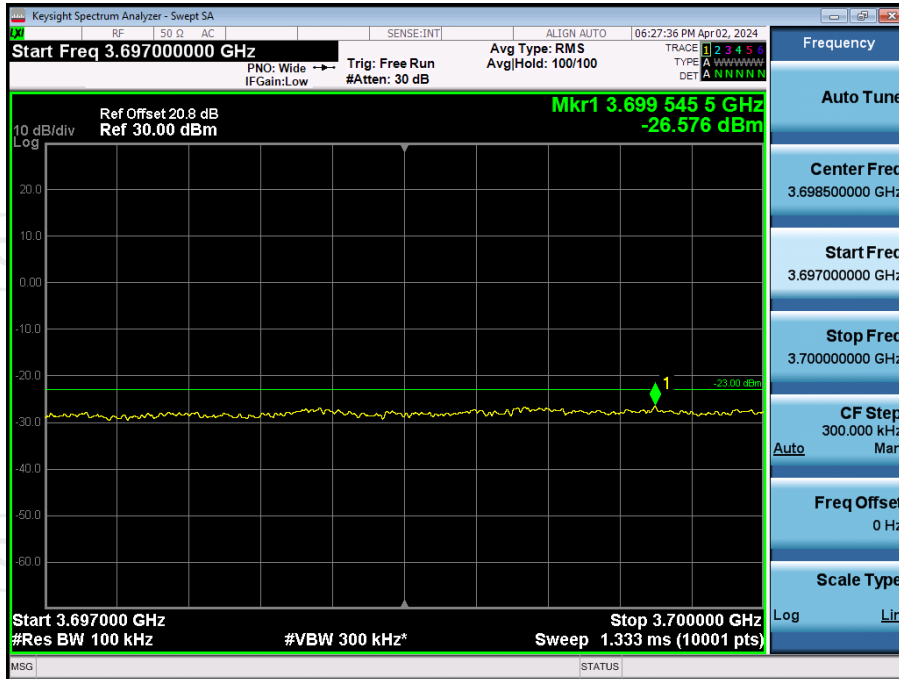
5G NR 80 MHz UL Right Side Pre AGC



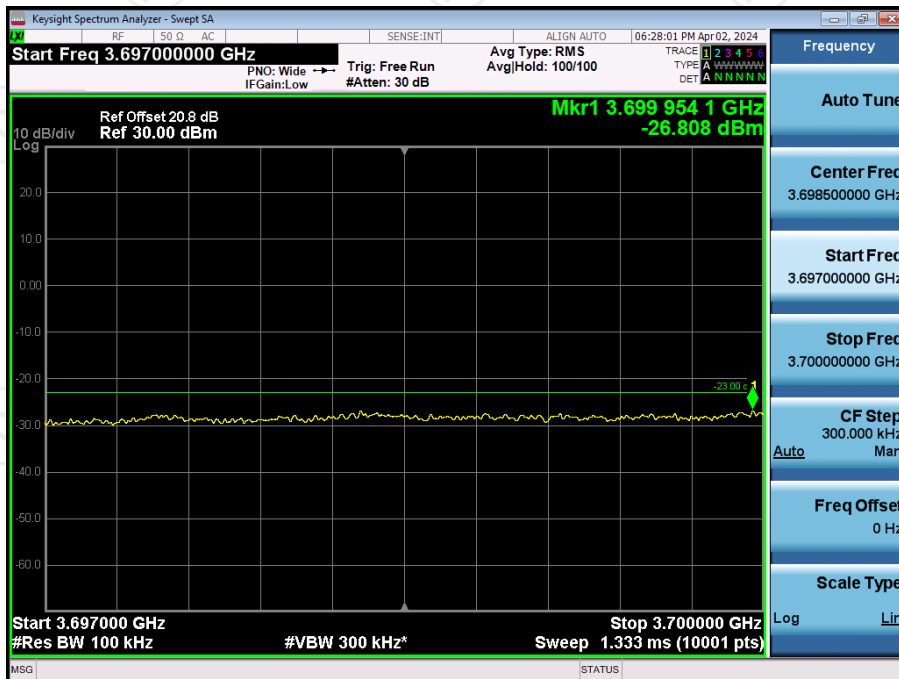
5G NR 80 MHz UL Right Side Pre AGC + 3 dB



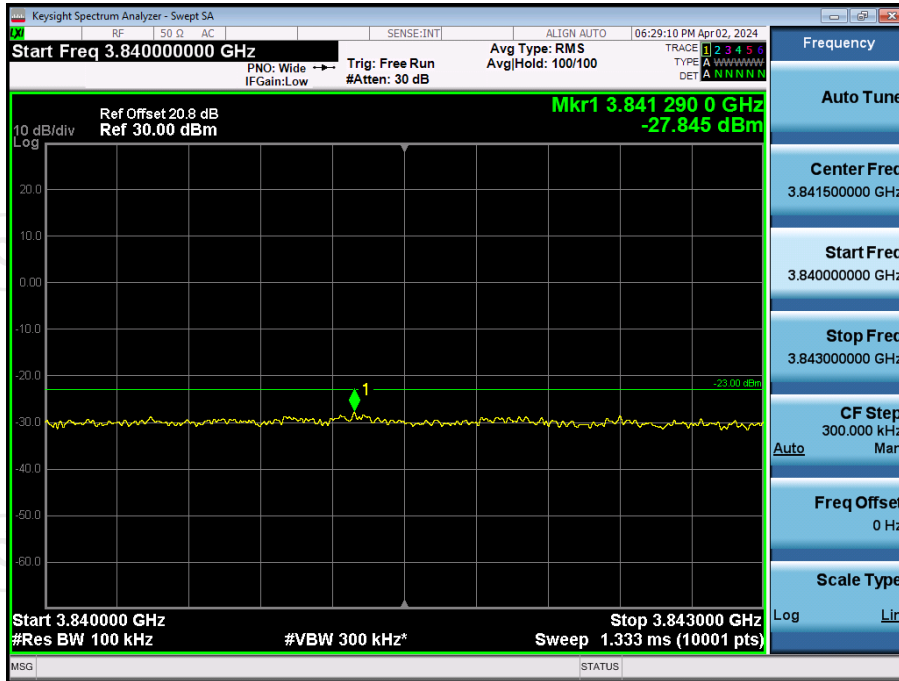
5G NR 100 MHz UL Left Side Pre AGC



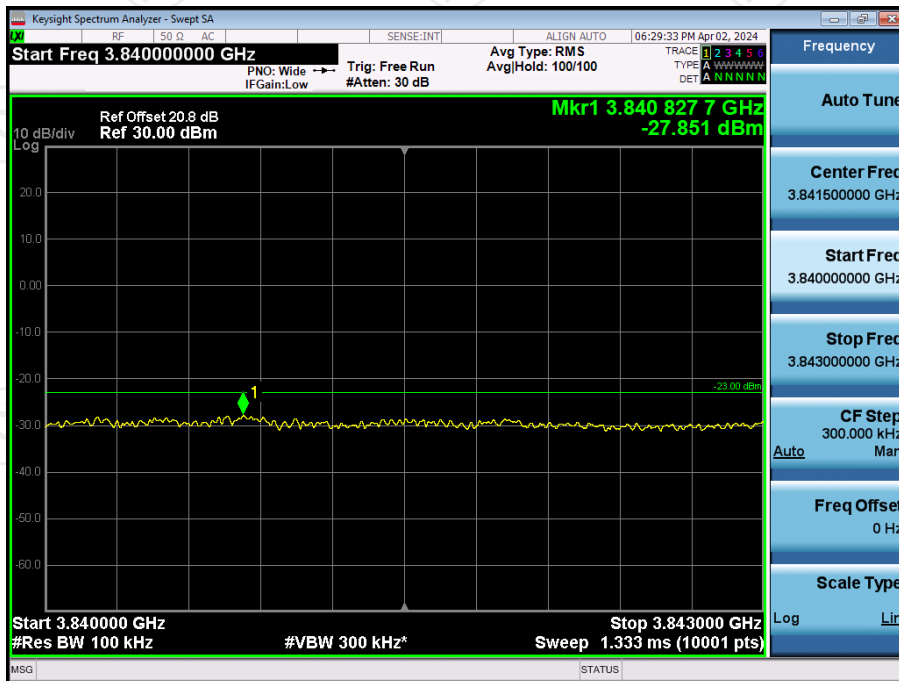
5G NR 100 MHz UL Left Side Pre AGC + 3 dB



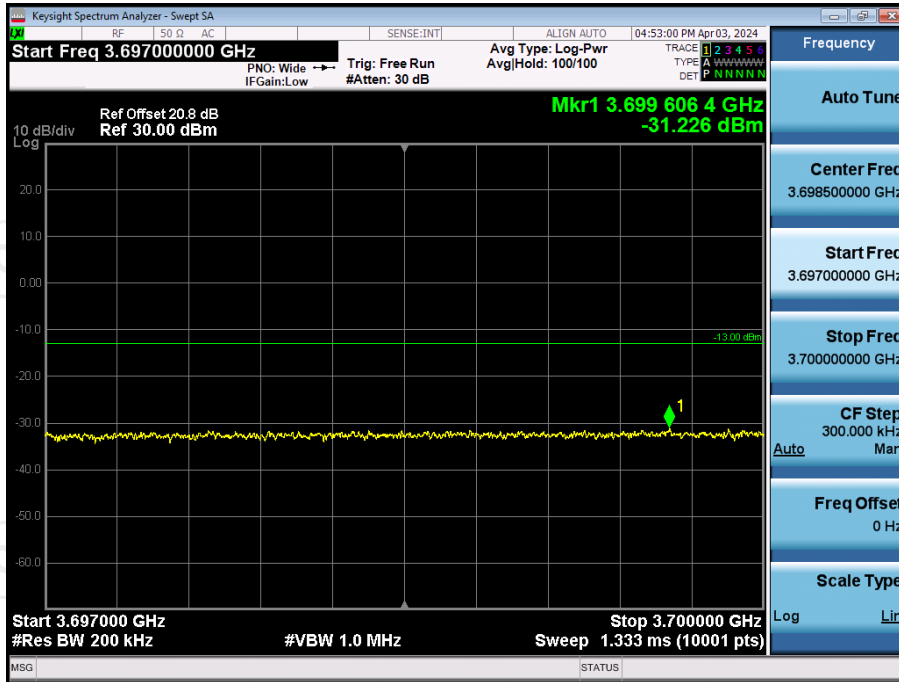
5G NR 100 MHz UL Right Side Pre AGC



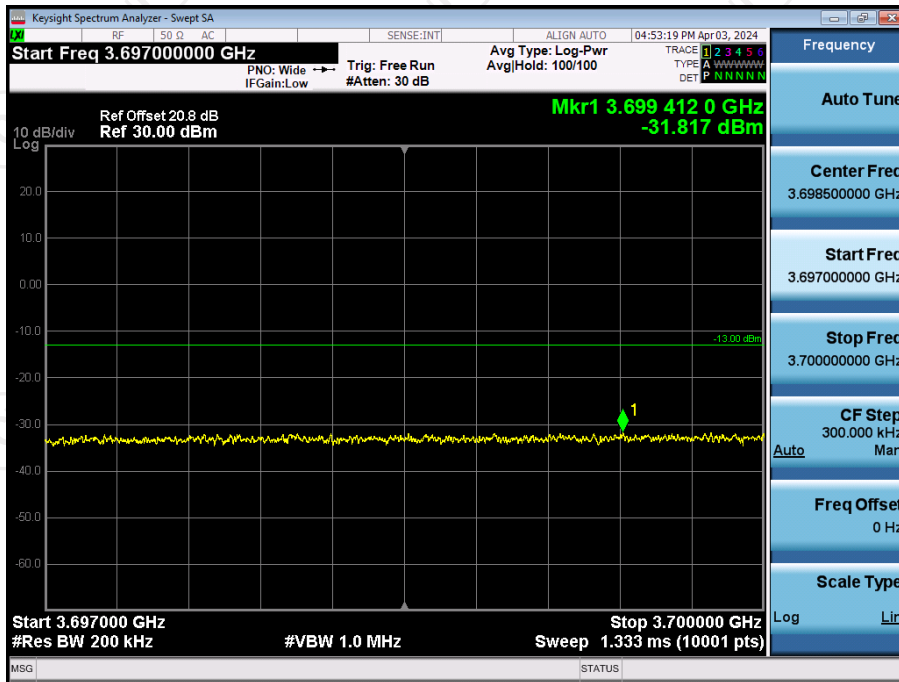
5G NR 100 MHz UL Right Side Pre AGC + 3 dB



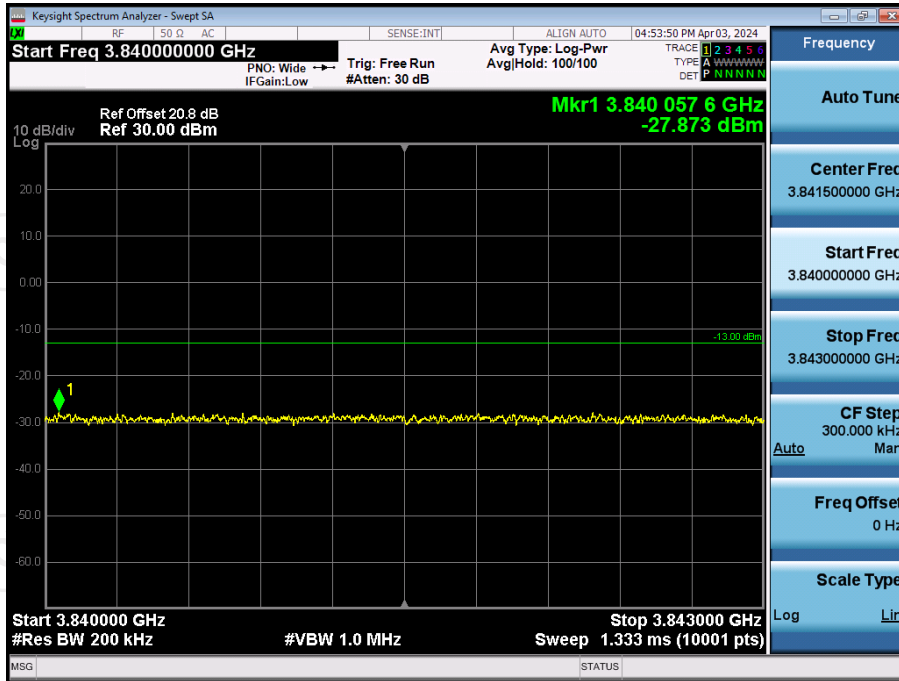
5G NR 20 MHz DL Left Side Pre AGC



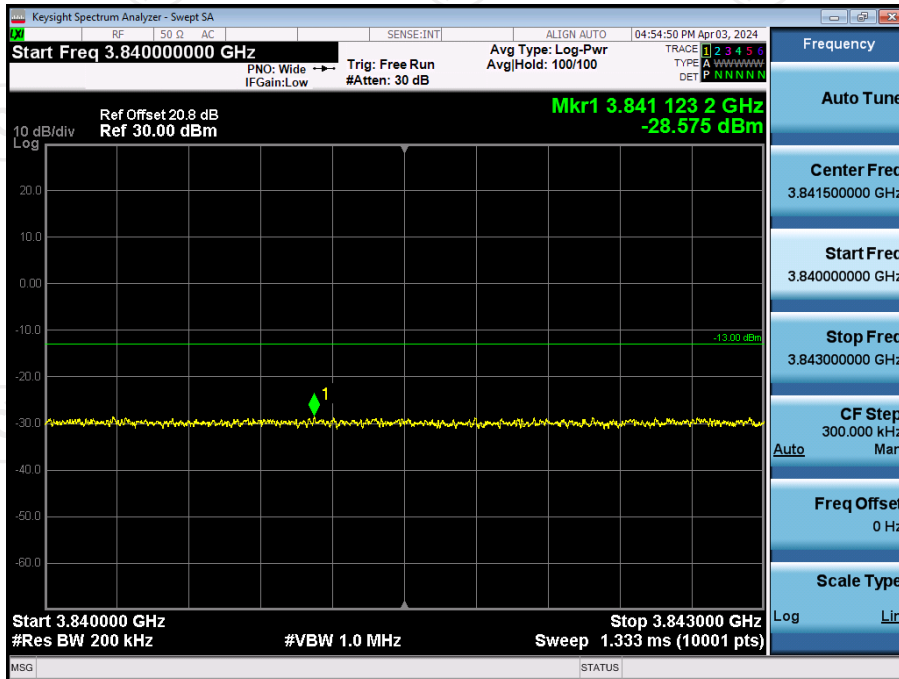
5G NR 20 MHz DL Left Side Pre AGC + 3 dB



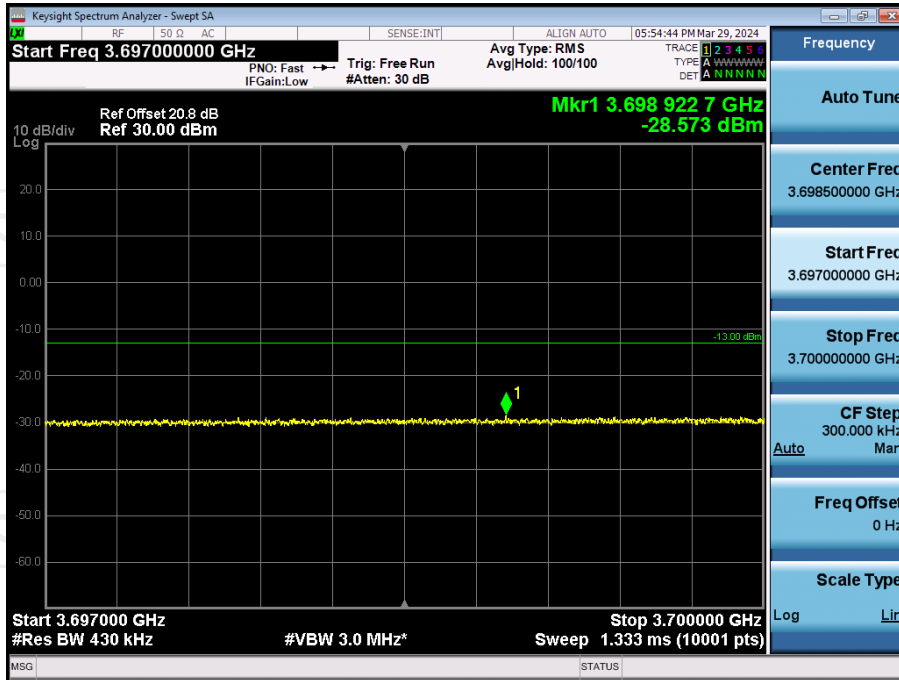
5G NR 20 MHz DL Right Side Pre AGC



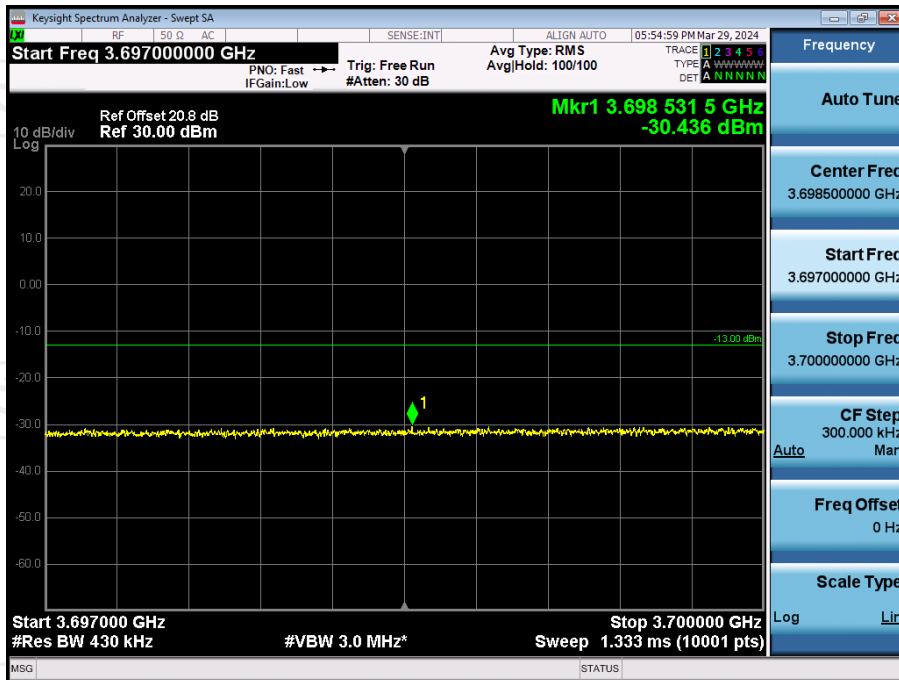
5G NR 20 MHz DL Right Side Pre AGC + 3 dB



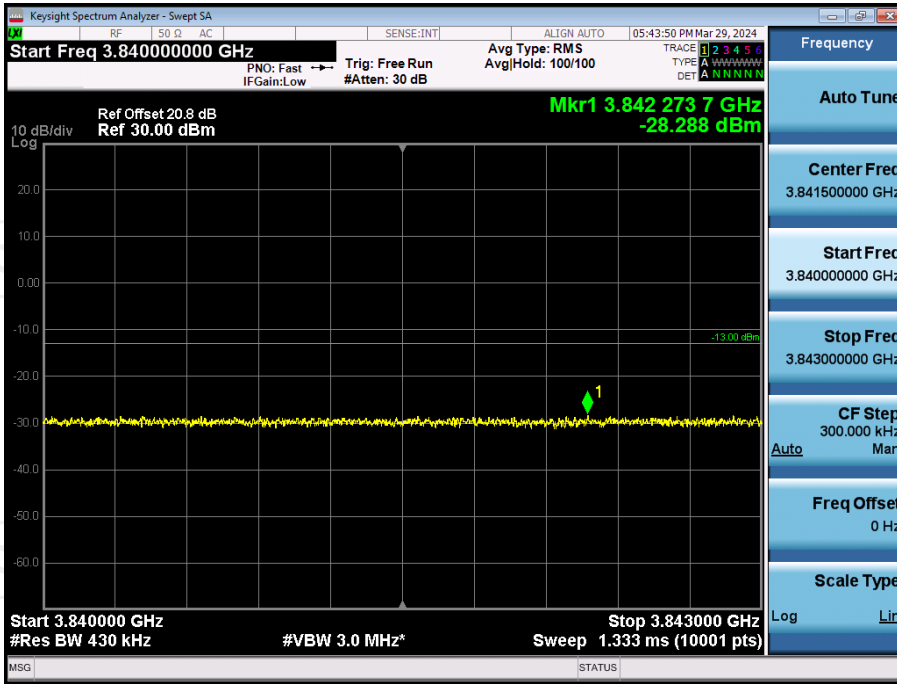
5G NR 40 MHz DL Left Side Pre AGC



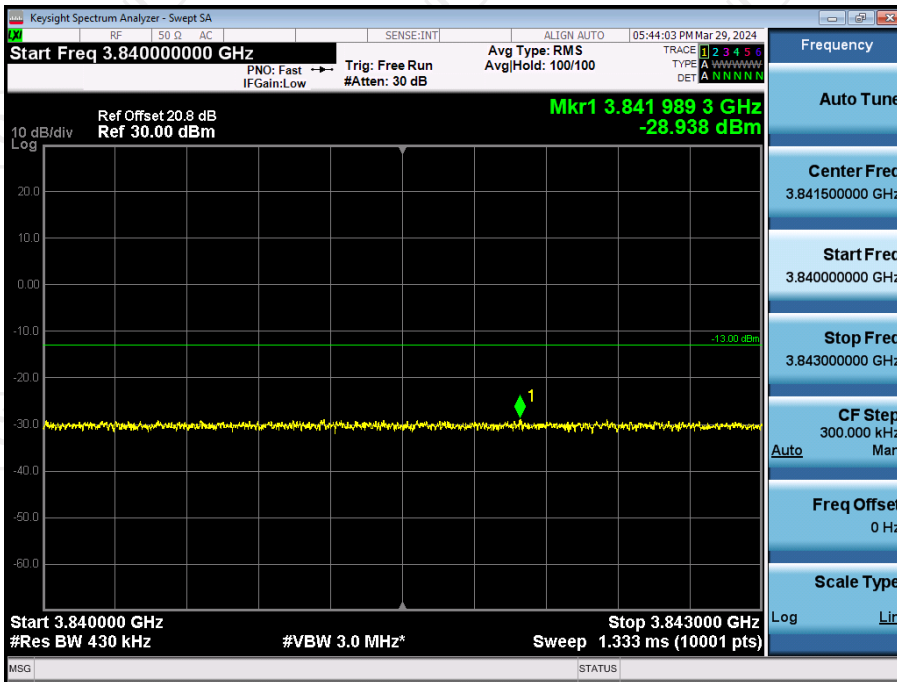
5G NR 40 MHz DL Left Side Pre AGC + 3 dB



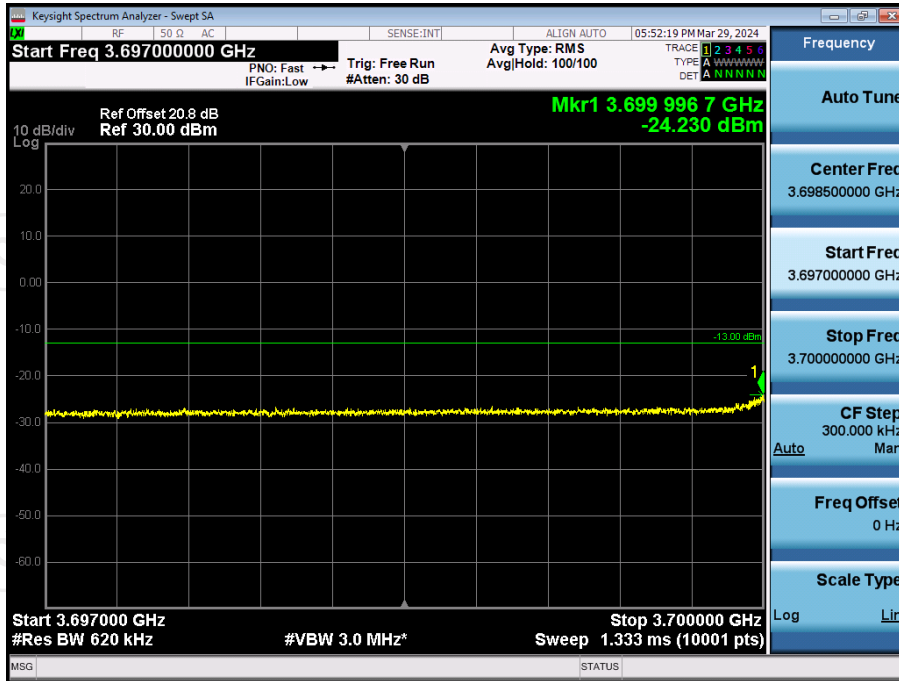
5G NR 40 MHz DL Right Side Pre AGC



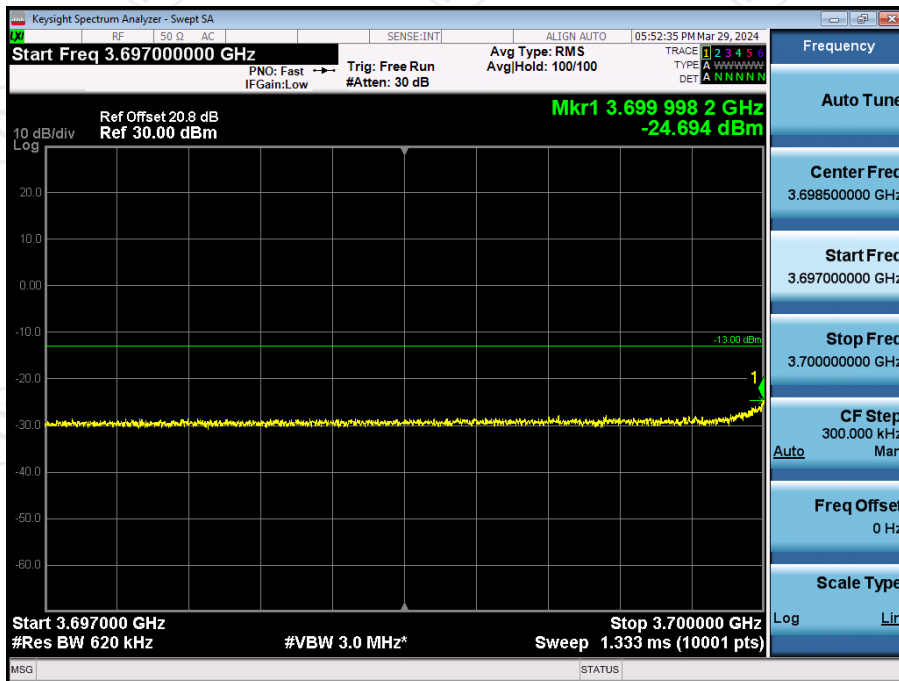
5G NR 40 MHz DL Right Side Pre AGC + 3 dB



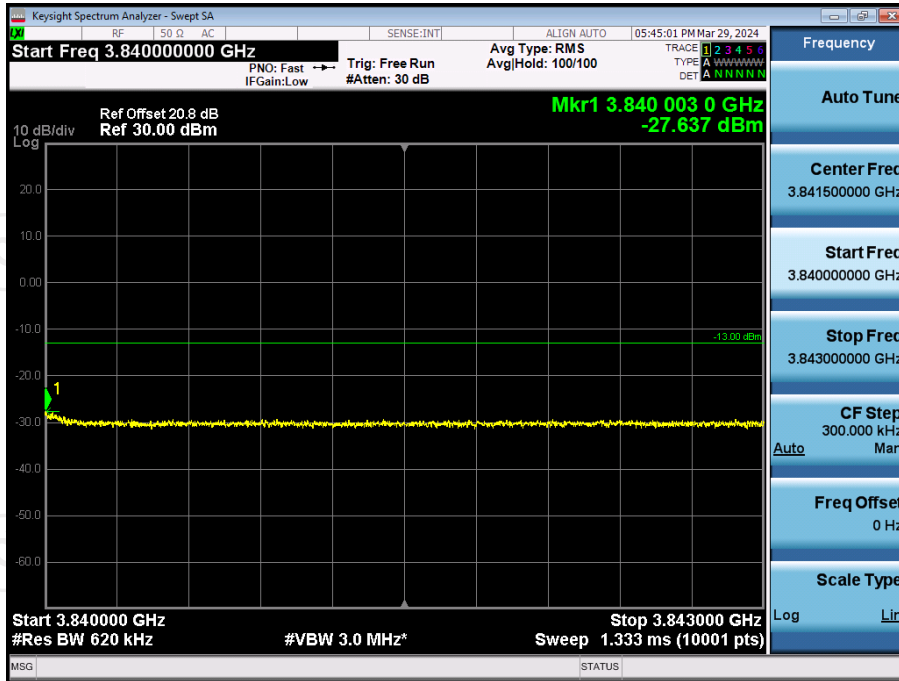
5G NR 60 MHz DL Left Side Pre AGC



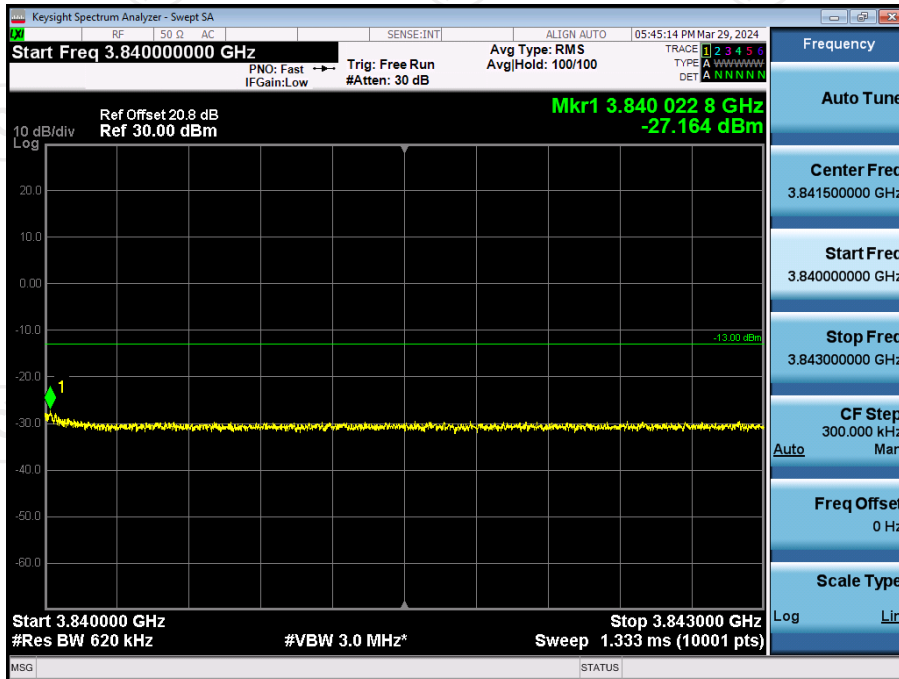
5G NR 60 MHz DL Left Side Pre AGC + 3 dB



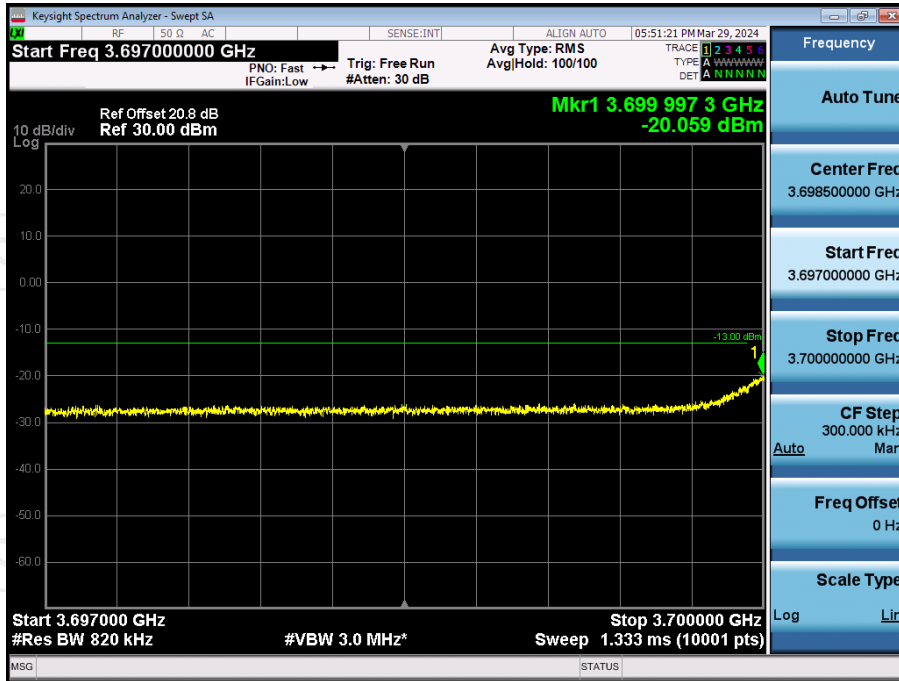
5G NR 60 MHz DL Right Side Pre AGC



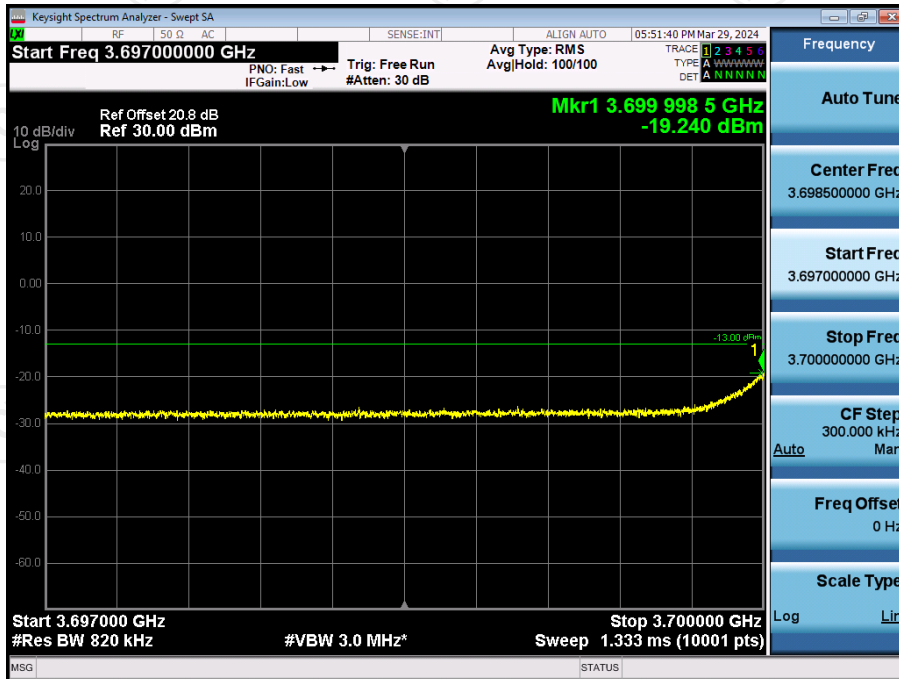
5G NR 60 MHz DL Right Side Pre AGC + 3 dB



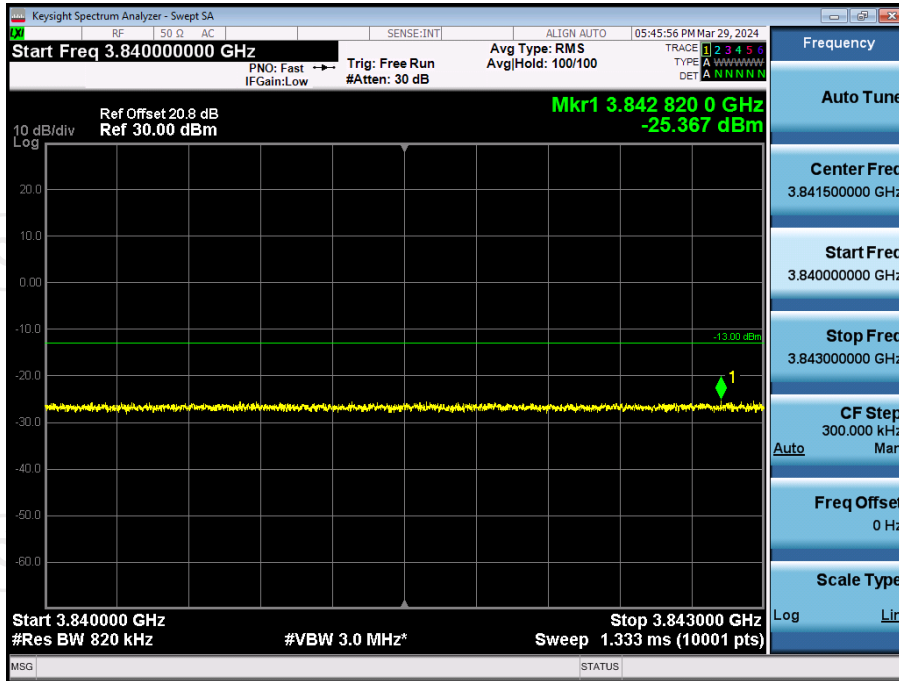
5G NR 80 MHz DL Left Side Pre AGC



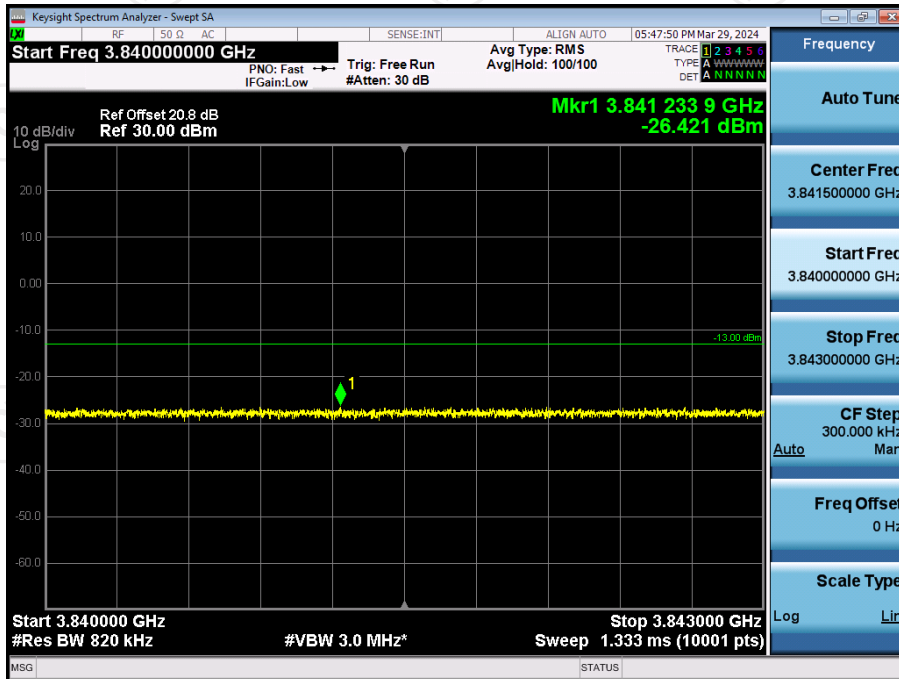
5G NR 80 MHz DL Left Side Pre AGC + 3 dB



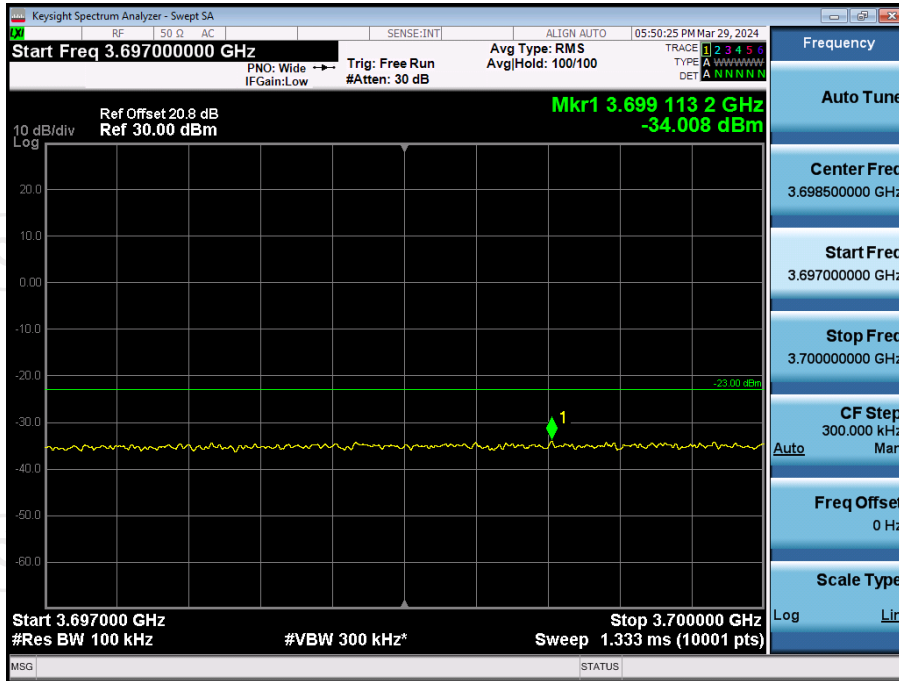
5G NR 80 MHz DL Right Side Pre AGC



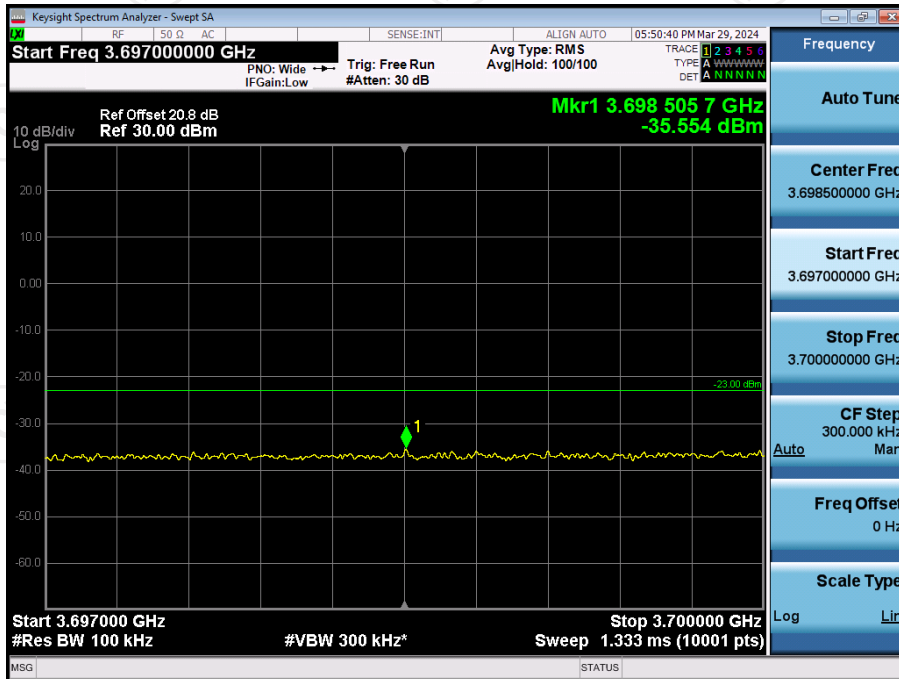
5G NR 80 MHz DL Right Side Pre AGC + 3 dB



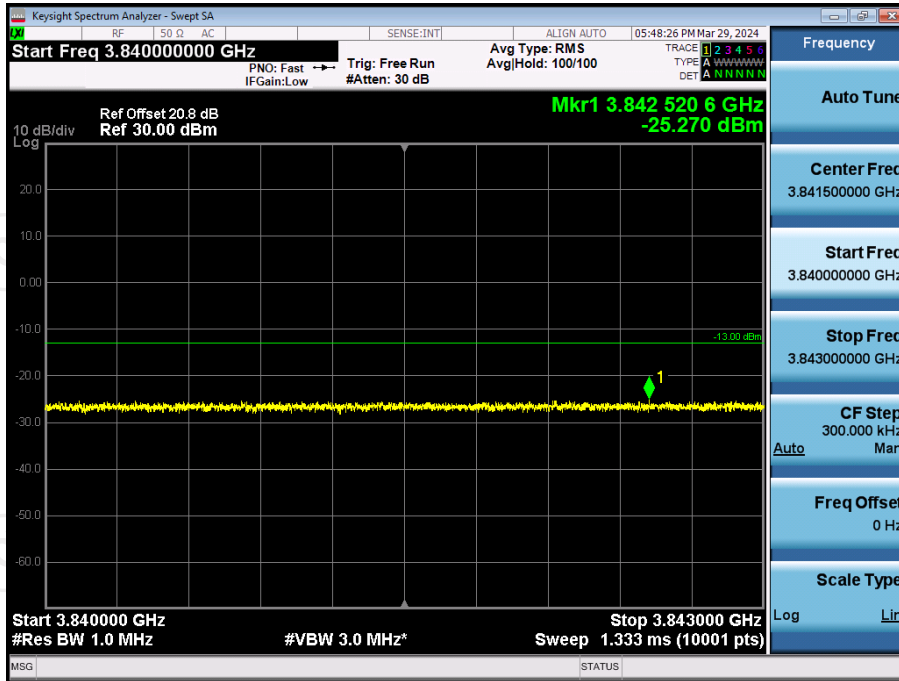
5G NR 100 MHz DL Left Side Pre AGC



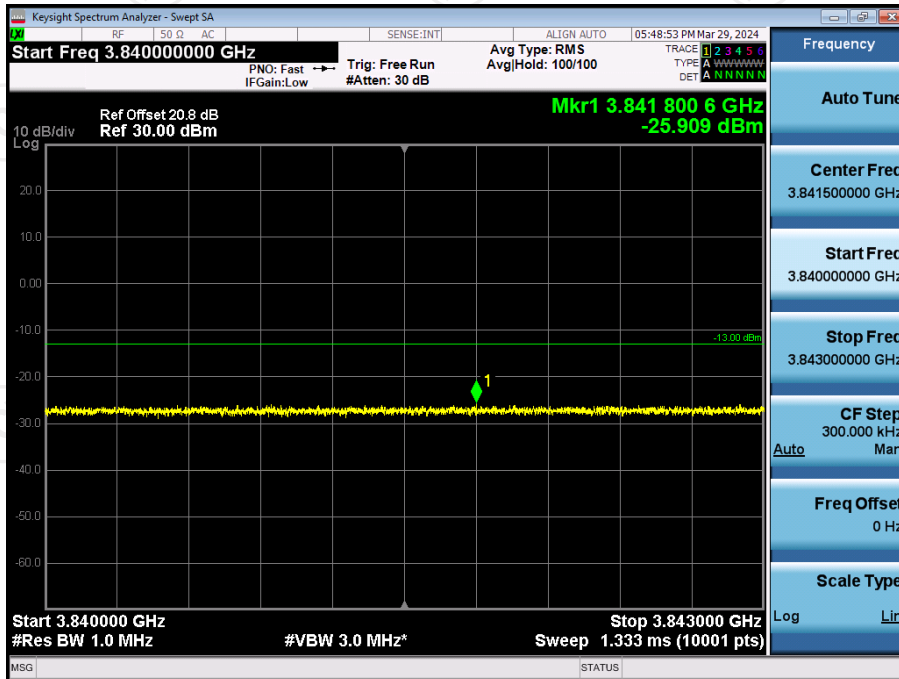
5G NR 100 MHz DL Left Side Pre AGC + 3 dB



5G NR 100 MHz DL Right Side Pre AGC

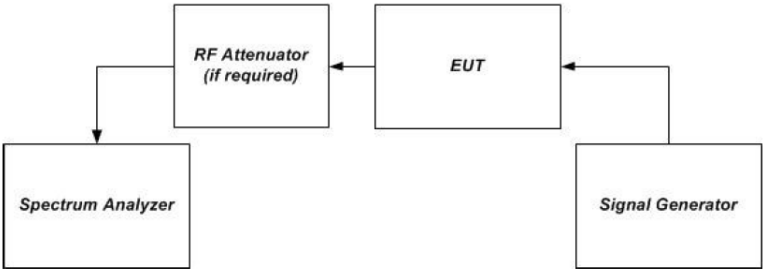


5G NR 100 MHz DL Right Side Pre AGC + 3 dB



5.6. Conducted Spurious Emission

5.6.1. Test Specification

Test Requirement:	FCC Part 2.1051; FCC Part 27.53(l)(1)
Test Method:	KDB 935210 D05 Indus Booster Basic Meas v01r04
Limit:	-13 dBm
Test Setup:	 <pre> graph LR SG[Signal Generator] --> EUT[EUT] EUT --> RA[RF Attenuator (if required)] RA --> SA[Spectrum Analyzer] </pre>
Test Procedure:	<p>a) Connect a signal generator to the input of the EUT.</p> <p>b) Set the signal generator to produce the broadband test signal that specified in section 3.3 of this report.</p> <p>c) Set the center frequency of the test signal to the lowest available channel within the frequency band or block.</p> <p>d) Set the EUT input power to a level that is just below the AGC threshold (see 3.2), but not more than 0.5 dB below.</p> <p>e) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation as necessary.</p> <p>f) Set the RBW = reference bandwidth in the applicable rule section for the supported frequency band of operation (e.g., reference bandwidth is typically 100 kHz or 1 MHz).</p> <p>g) Set the VBW $\geq 3 \times$ RBW.</p> <p>h) Set the Sweep time = auto-couple.</p> <p>i) Set the spectrum analyzer start frequency to the lowest RF signal generated in the equipment, without going below 9 kHz, and the stop frequency to the lower band/block edge frequency minus 100 kHz or 1 MHz, as specified in the applicable rule part.</p> <p>The number of measurement points in each sweep must be $\geq (2 \times \text{span}/\text{RBW})$, which may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the available number of measurement points provided by the spectrum analyzer.</p> <p>j) Select the power averaging (rms) detector function.</p> <p>k) Trace average at least 10 traces in power averaging (rms) mode.</p> <p>l) Use the peak marker function to identify the highest</p>

	<p>amplitude level over each measured frequency range. Record the frequency and amplitude and capture a plot for inclusion in the test report.</p> <p>m) Reset the spectrum analyzer start frequency to the upper band/block edge frequency plus 100 kHz or 1 MHz, as specified in the applicable rule part, and the spectrum analyzer stop frequency to $10 \times$ the highest frequency of the fundamental emission (see Section 2.1057). The number of measurement points in each sweep must be $\geq (2 \times \text{span/RBW})$, which may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the available number of measurement points provided by the spectrum analyzer.</p> <p>n) Trace average at least 10 traces in power averaging (rms) mode.</p> <p>o) Use the peak marker function to identify the highest amplitude level over each of the measured frequency ranges. Record the frequency and amplitude and capture a plot for inclusion in the test report; also provide tabular data, if required.</p> <p>p) Repeat steps i) to o) with the input test signals firstly tuned to a middle band/block frequency/channel, and then tuned to a high band/block frequency/channel.</p> <p>q) Repeat steps c) to p) with the narrowband test signal.</p> <p>r) Repeat steps b) to q) for all authorized frequency bands/blocks used by the EUT.</p>
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Generator	Agilent	N5182B	MY53052214	Jun. 29, 2023	Jun. 28, 2024
Spectrum Analyzer	R&S	FSV40-N	102188	Feb. 01, 2024	Jan. 31, 2025
Attenuator	50FP-006-H3	JFW	907763	/	/

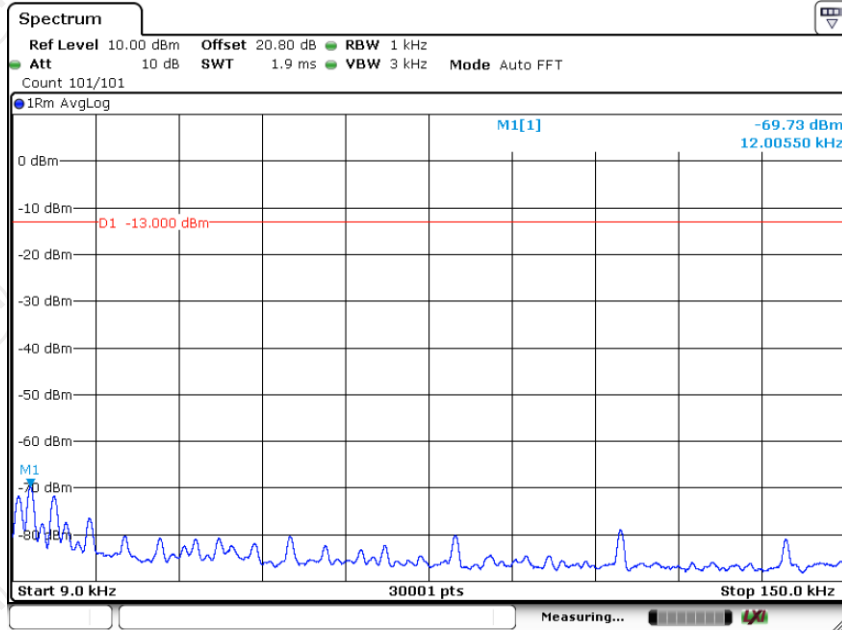
5.6.3. Test data

Test Plots

Path1 Full Band Mode Uplink

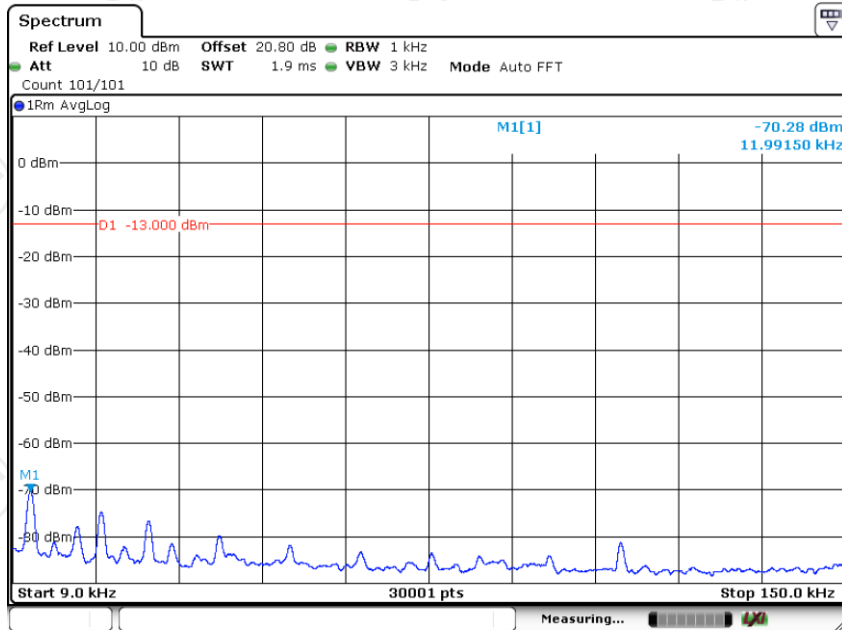
Lowest

5G NR 100 MHz (9kHz-150kHz) Pre AGC



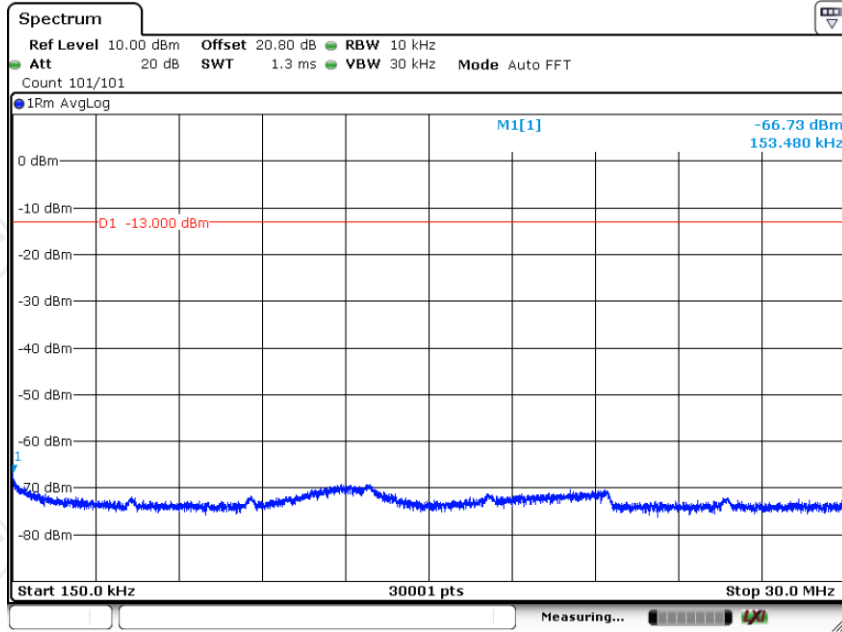
Date: 1.APR.2024 15:13:19

5G NR 100 MHz (9kHz-150kHz) Pre AGC + 3 dB



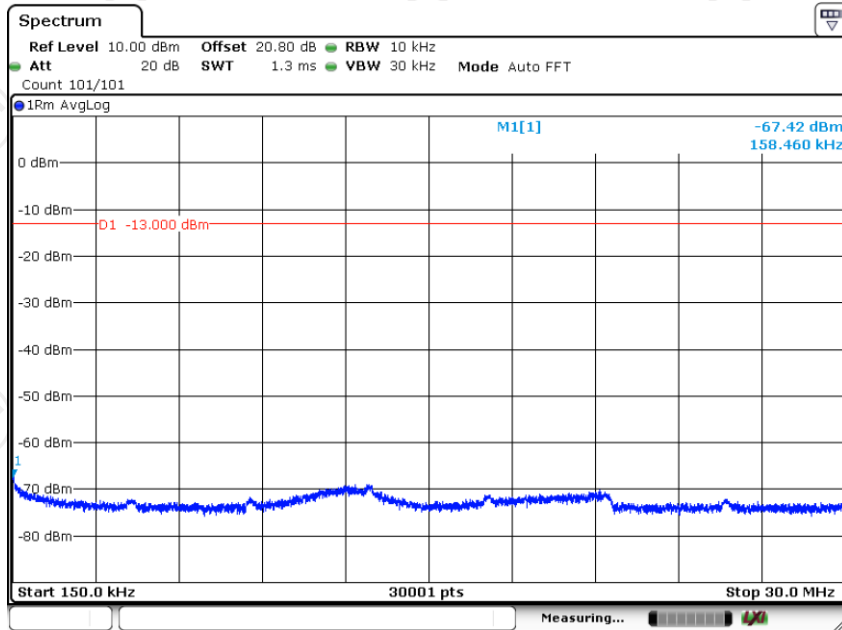
Date: 1.APR.2024 15:15:29

5G NR 100 MHz (150kHz-30MHz) Pre AGC



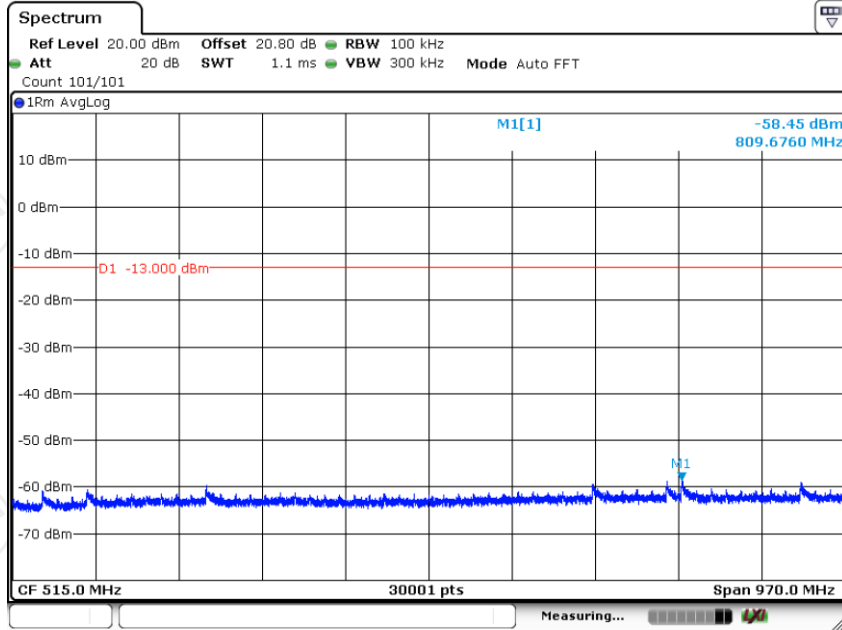
Date: 1.APR.2024 15:21:18

5G NR 100 MHz (150kHz-30MHz) Pre AGC + 3 dB



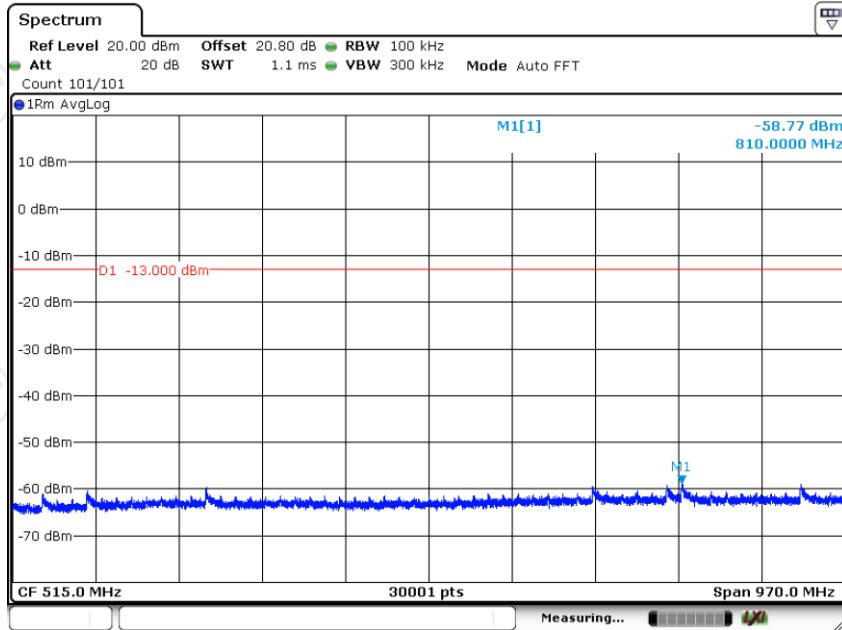
Date: 1.APR.2024 15:20:36

5G NR 100 MHz (30MHz-1GHz) Pre AGC



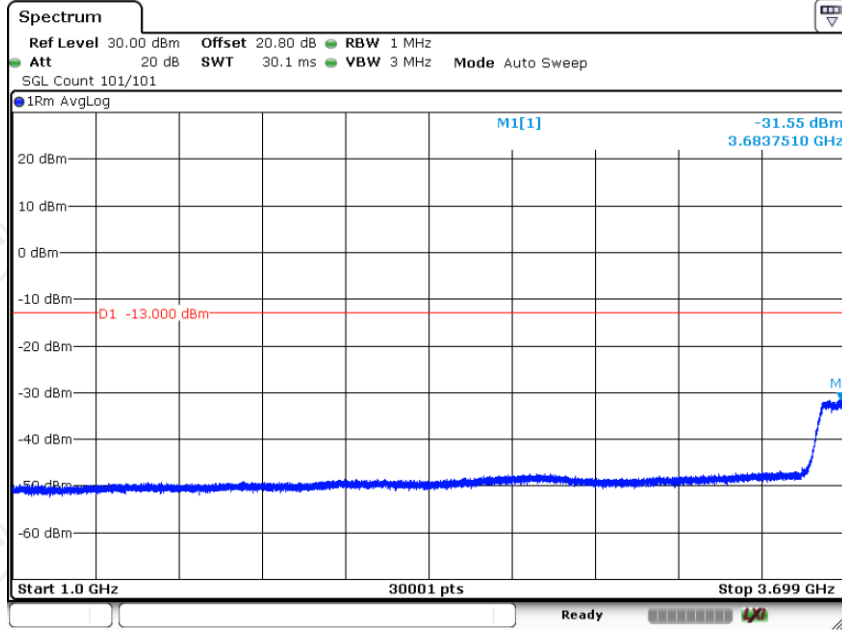
Date: 1.APR.2024 15:50:00

5G NR 100 MHz (30MHz-1GHz) AGC + 3 dB



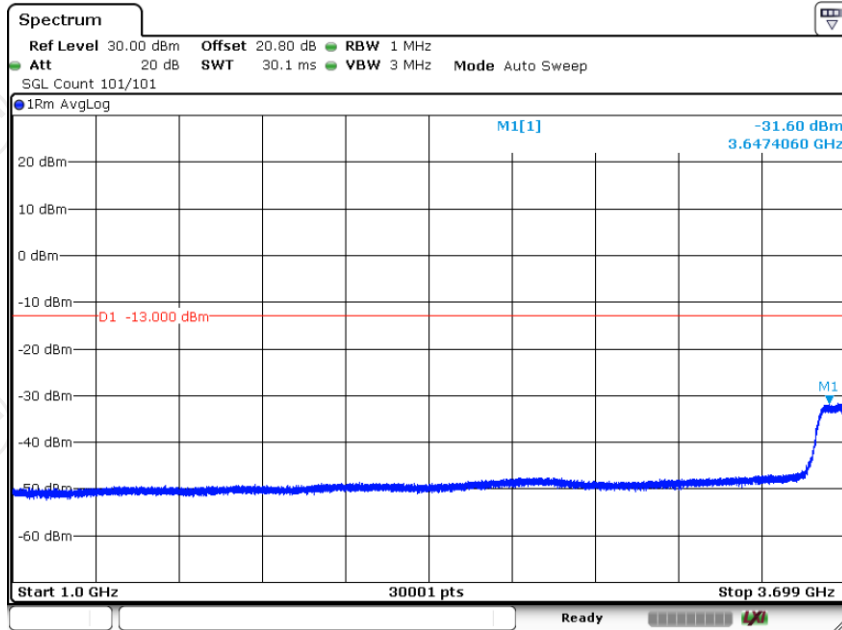
Date: 1.APR.2024 16:02:50

5G NR 100 MHz (1GHz-3699MHz) Pre AGC



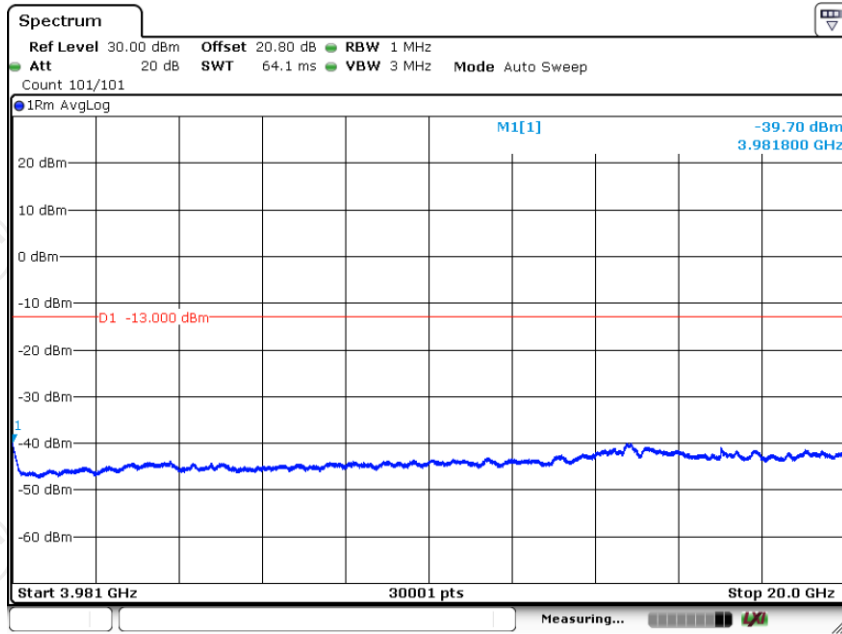
Date: 1.APR.2024 16:09:25

5G NR 100 MHz (1GHz-3699MHz) AGC + 3 dB



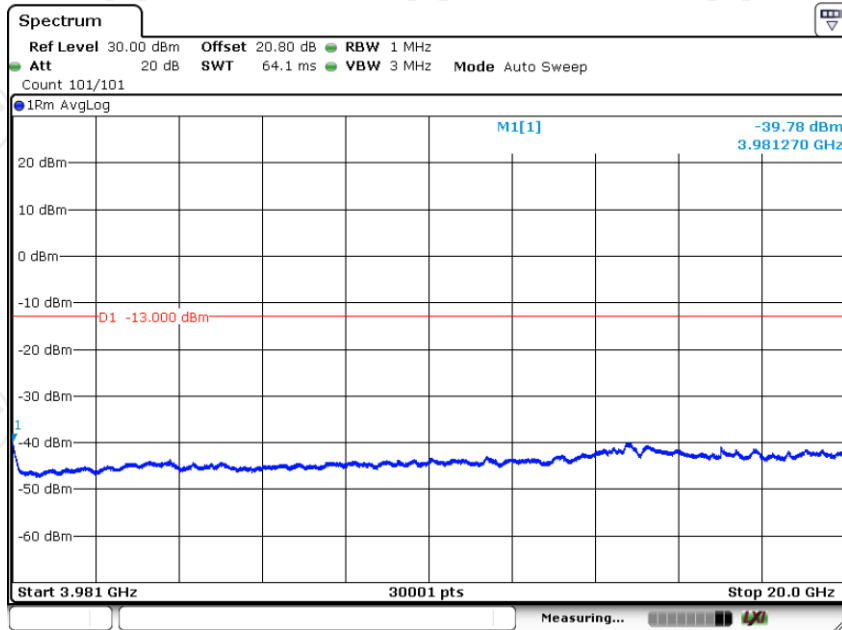
Date: 1.APR.2024 16:08:18

5G NR 100 MHz (3981MHz-20GHz) Pre AGC



Date: 1.APR.2024 16:30:52

5G NR 100 MHz (3981MHz-20GHz) AGC + 3 dB



Date: 1.APR.2024 16:36:03