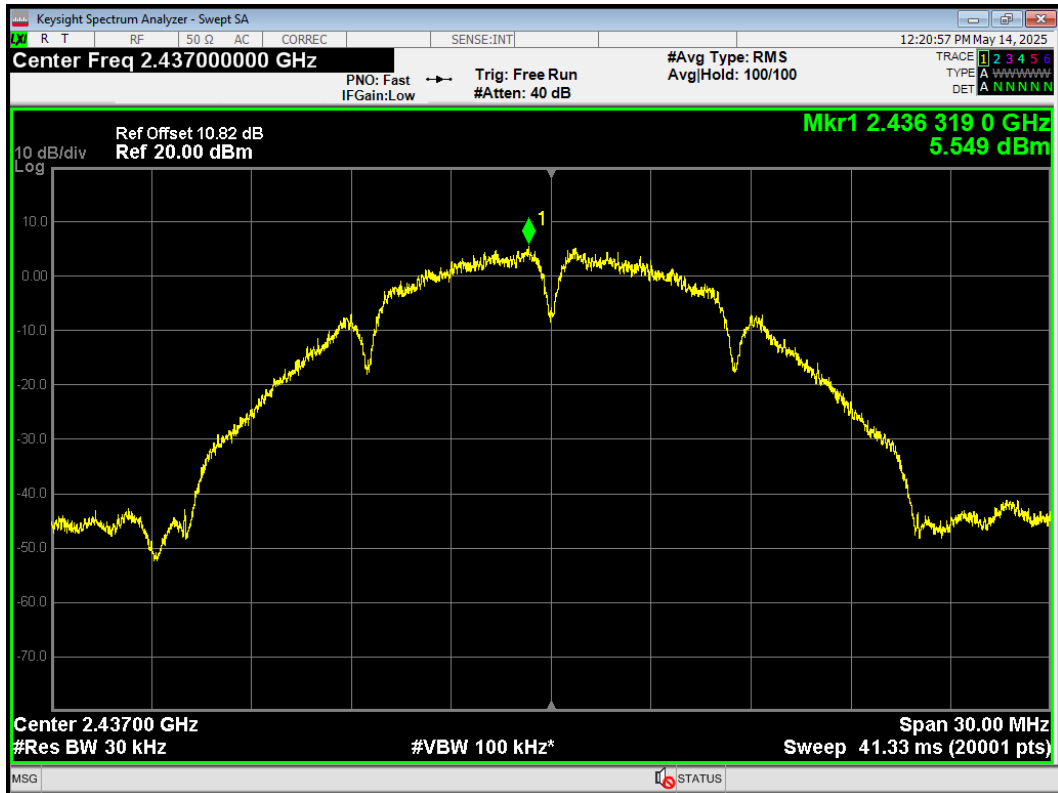
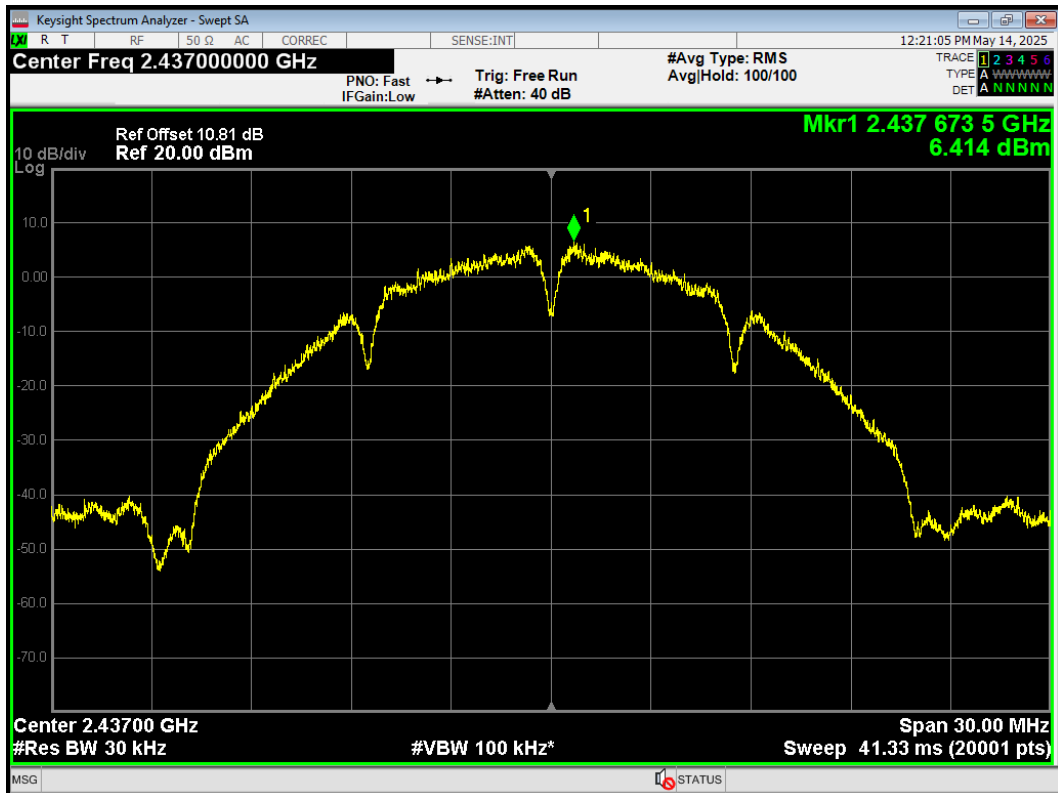


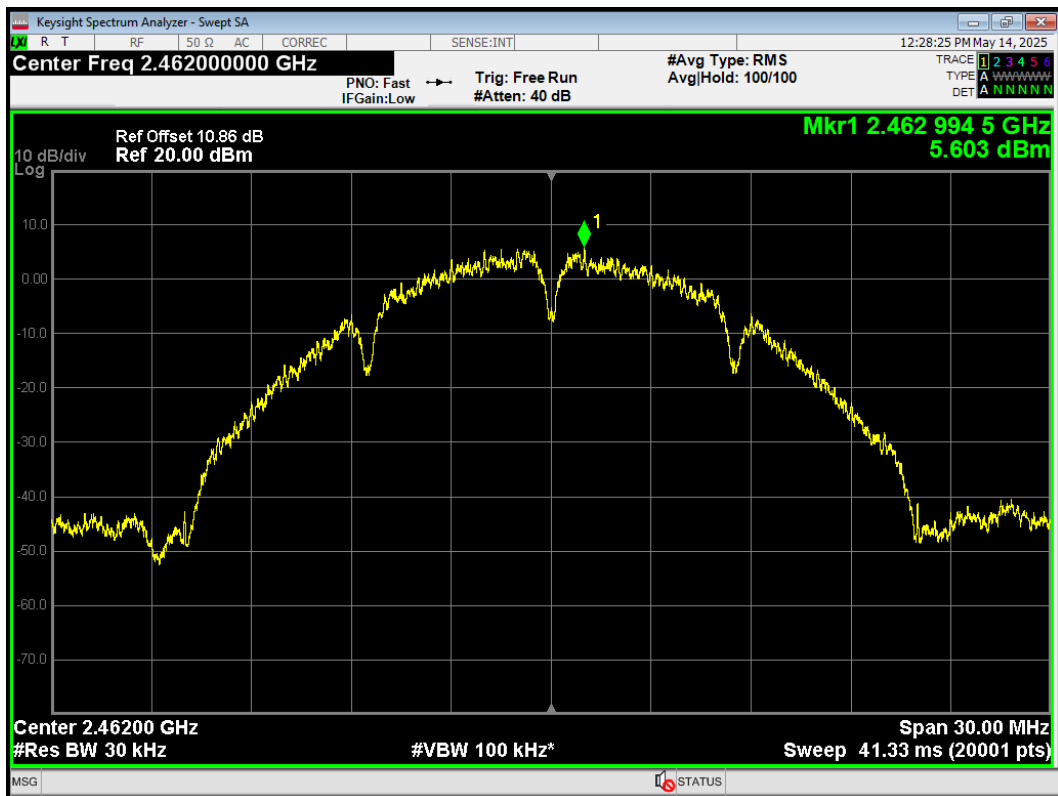
PSD 802.11b 2437MHz Ant1



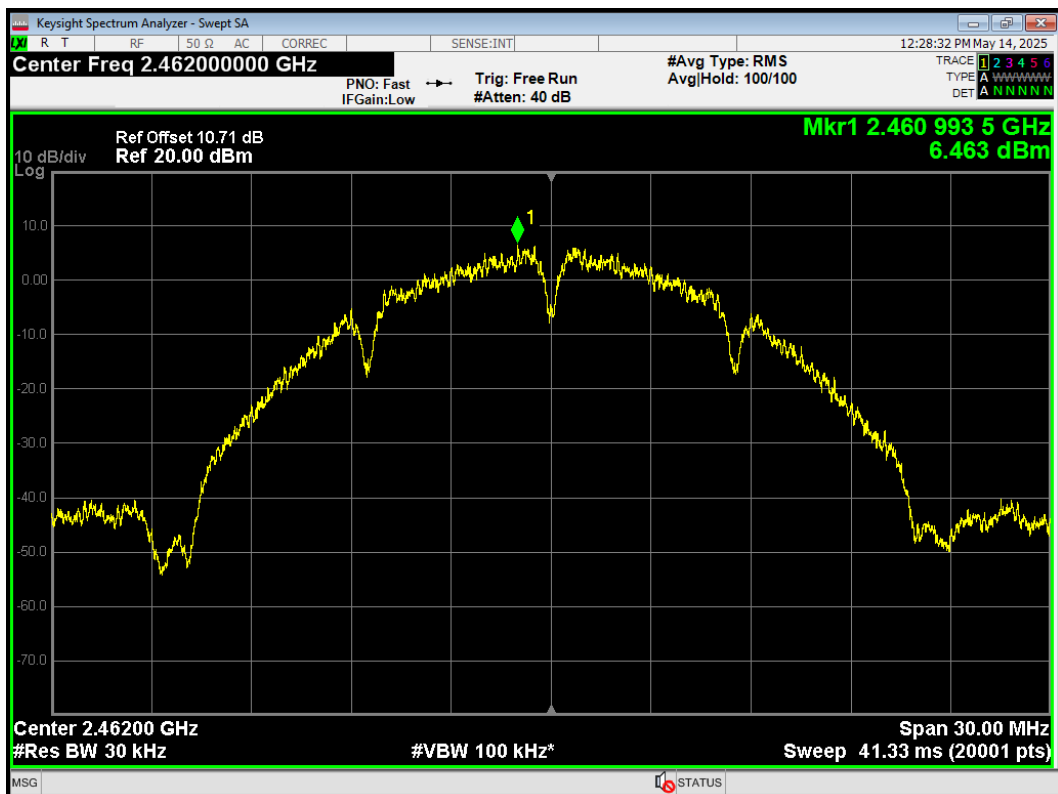
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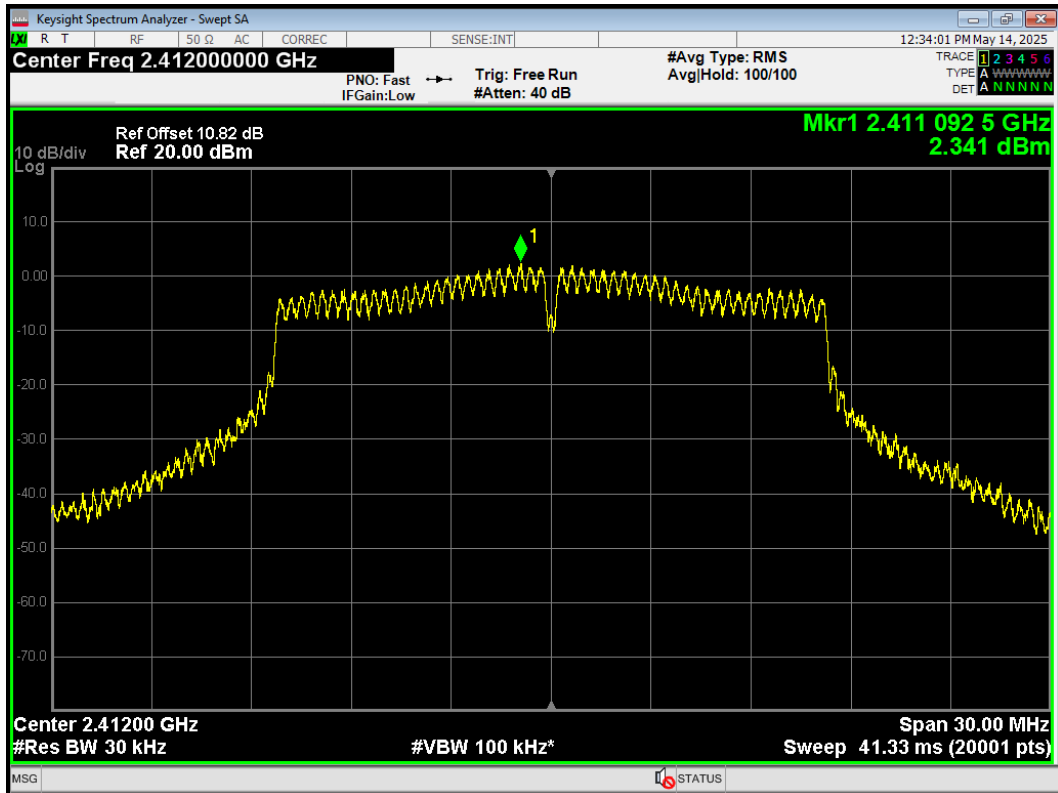
PSD 802.11b 2462MHz Ant1



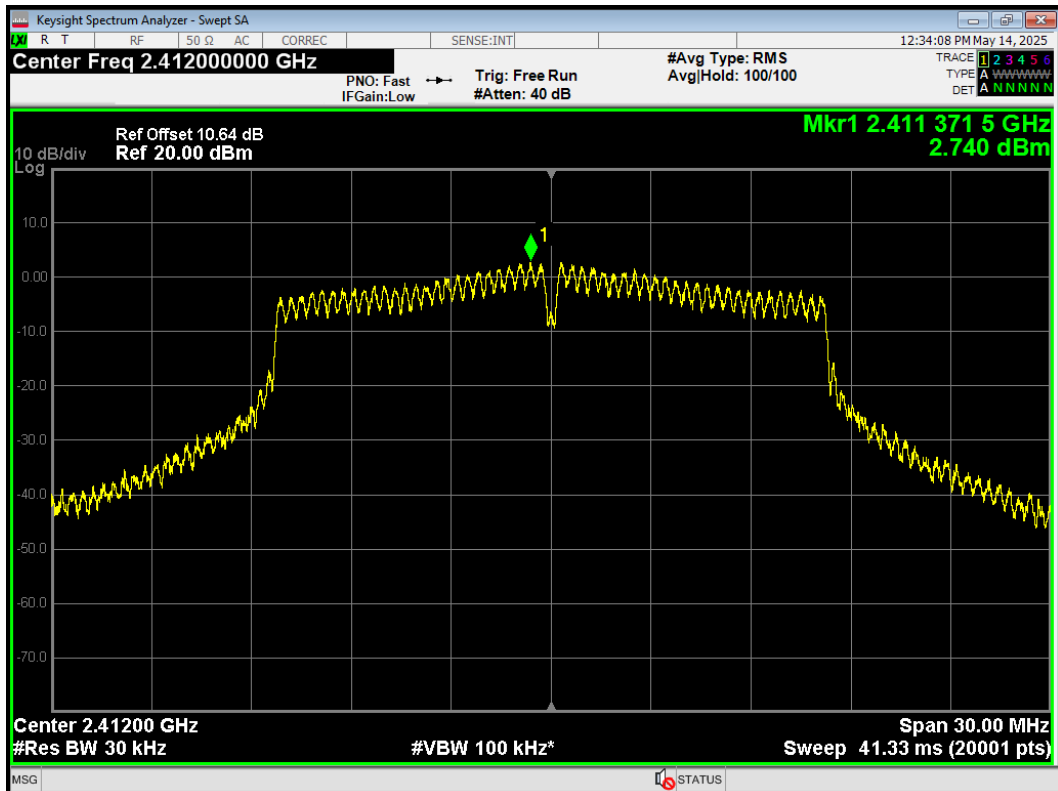
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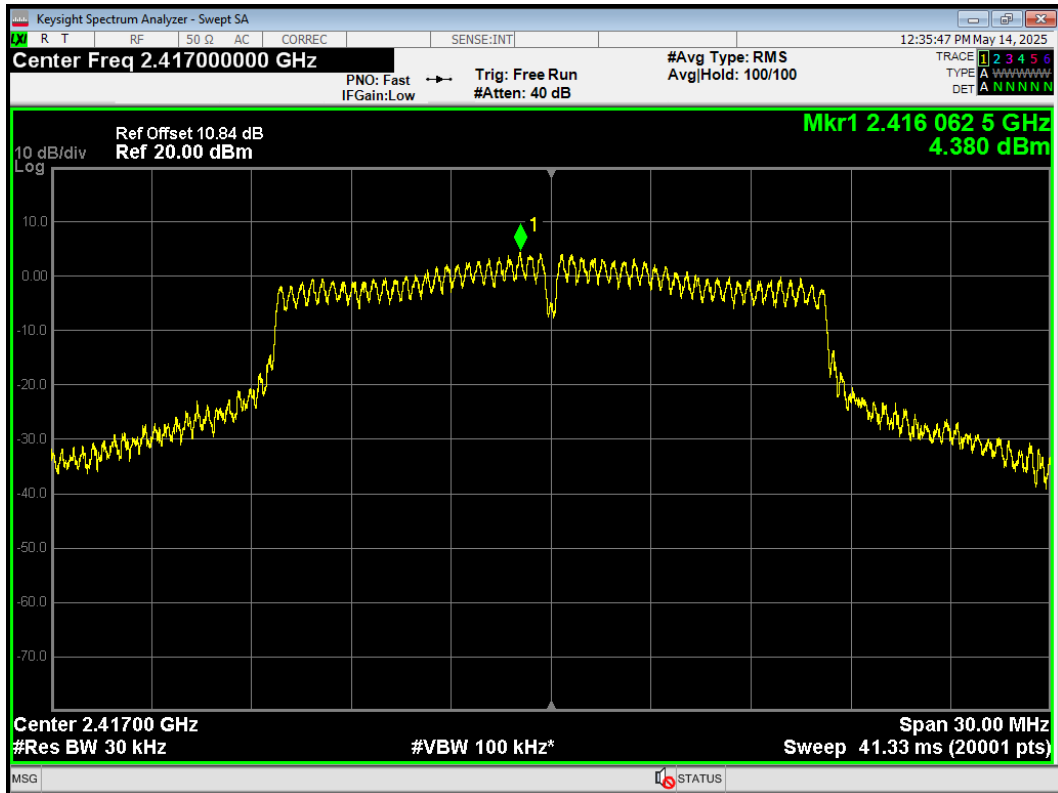
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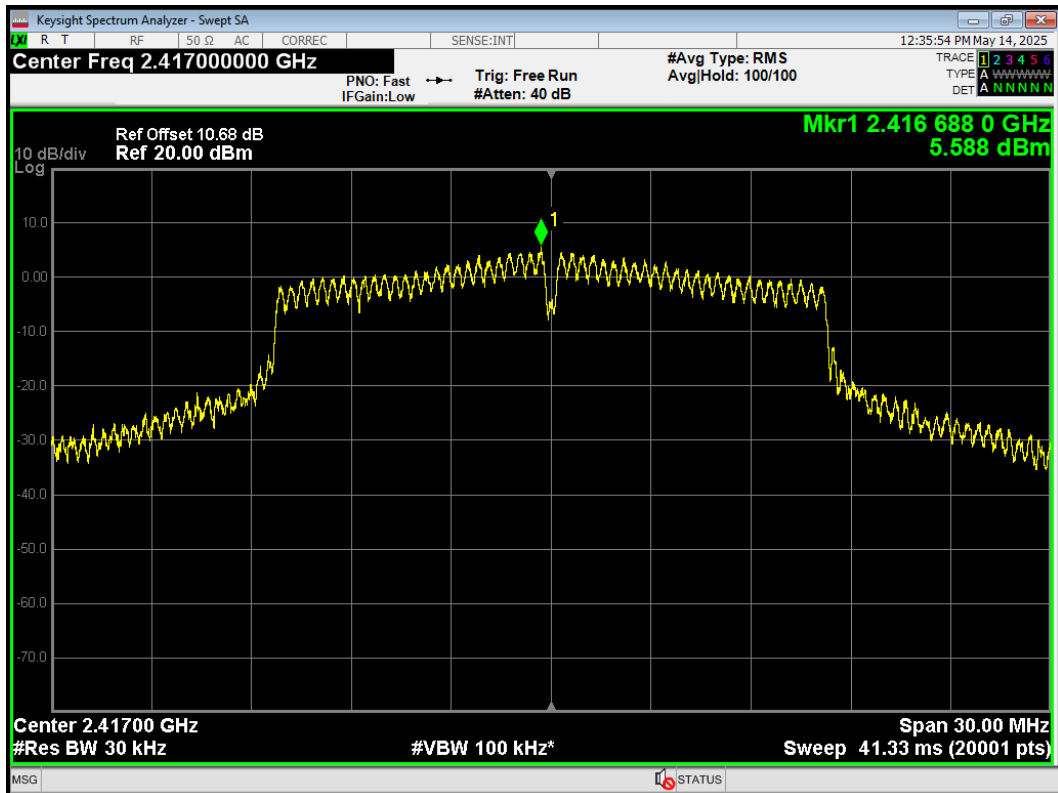
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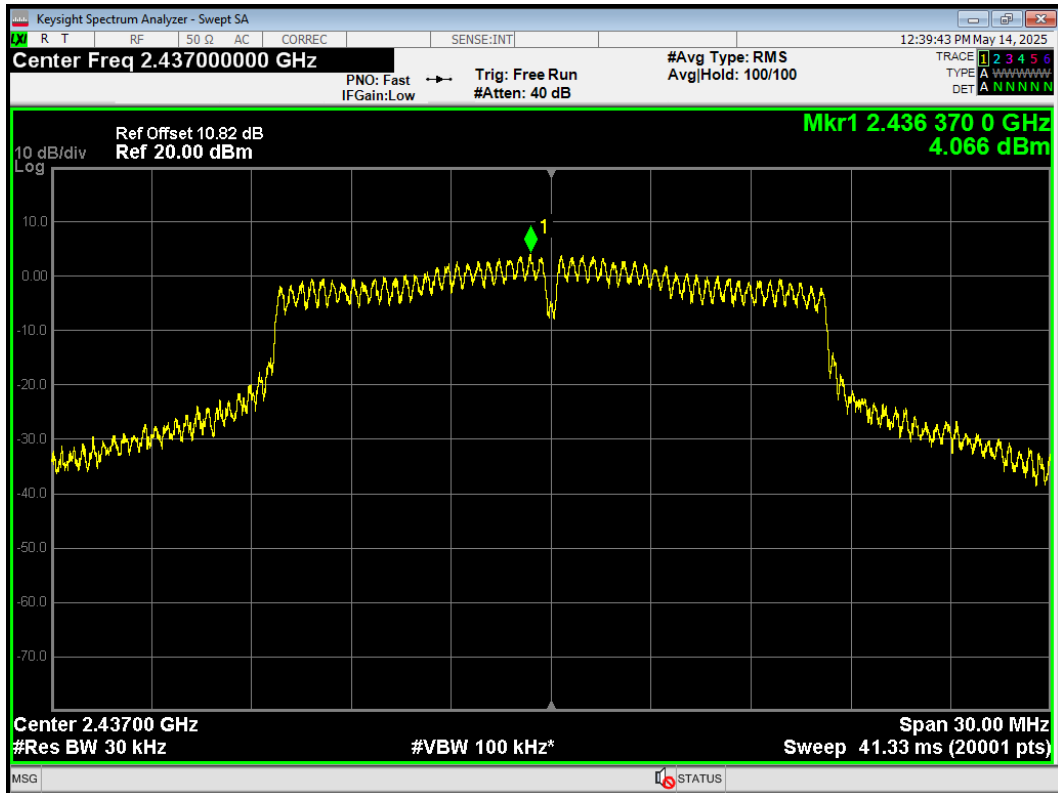
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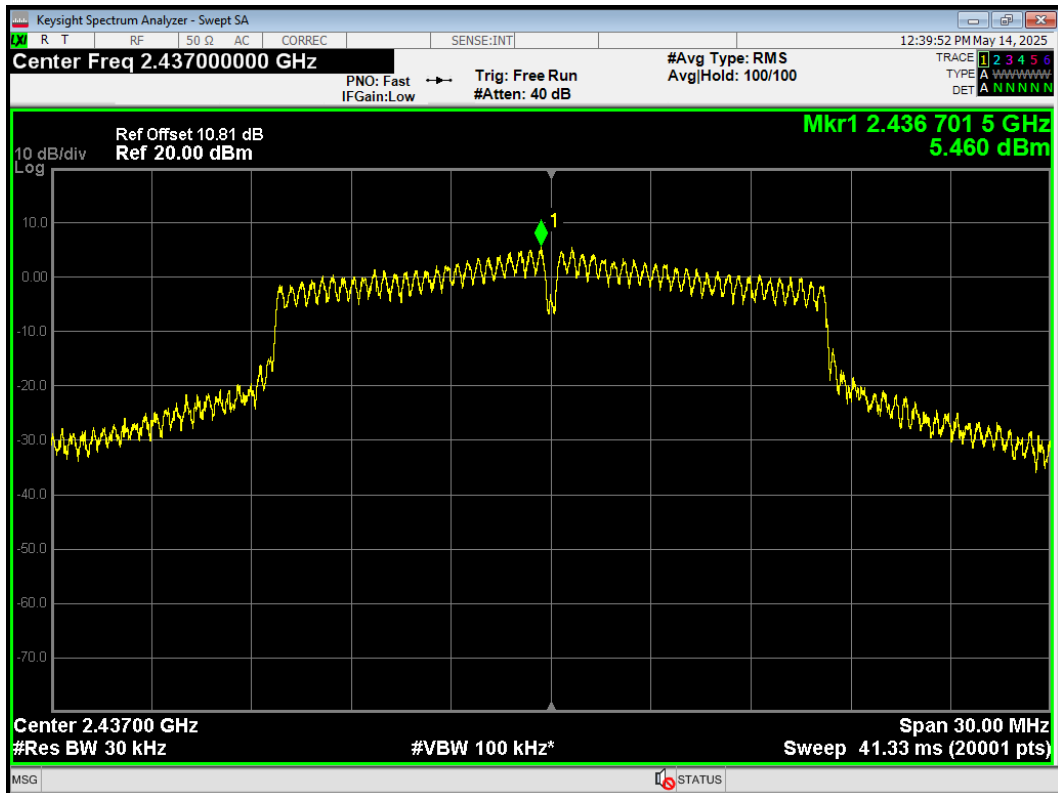
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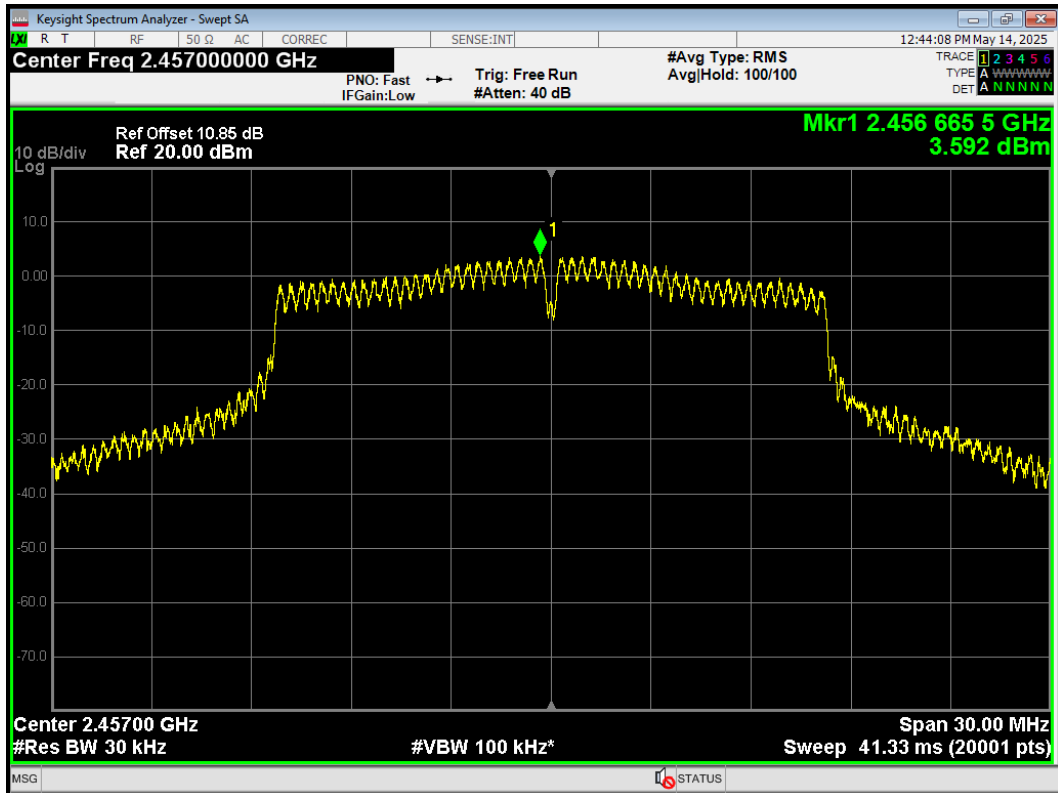
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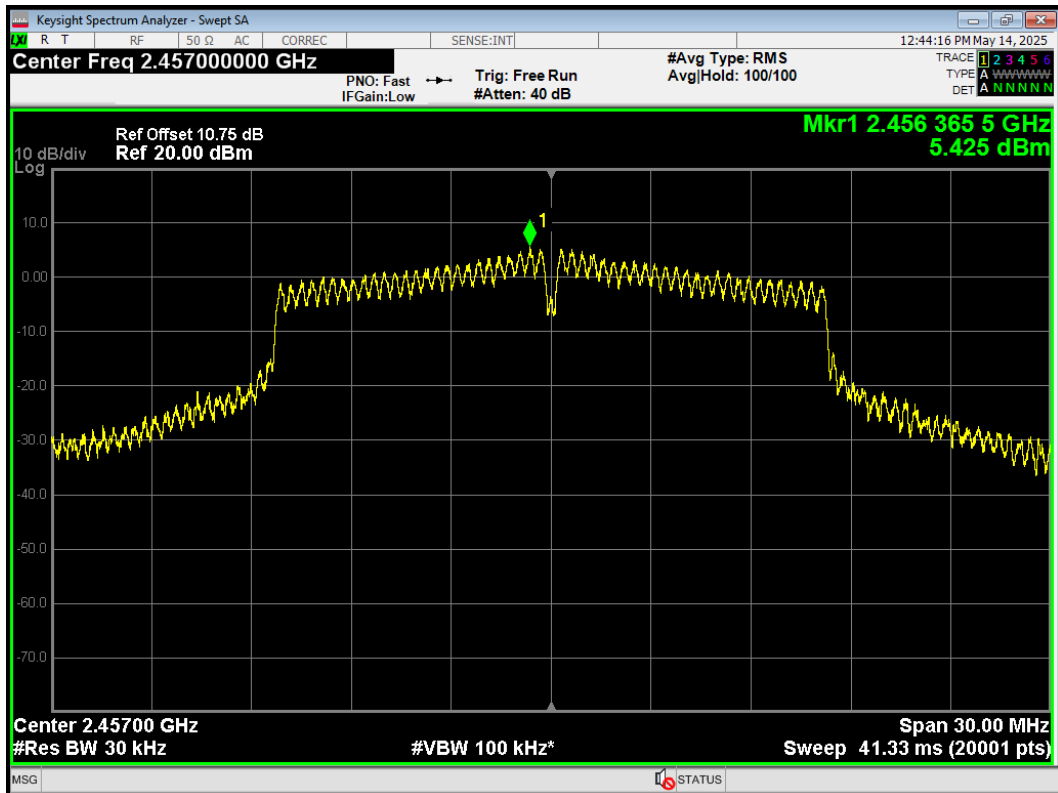
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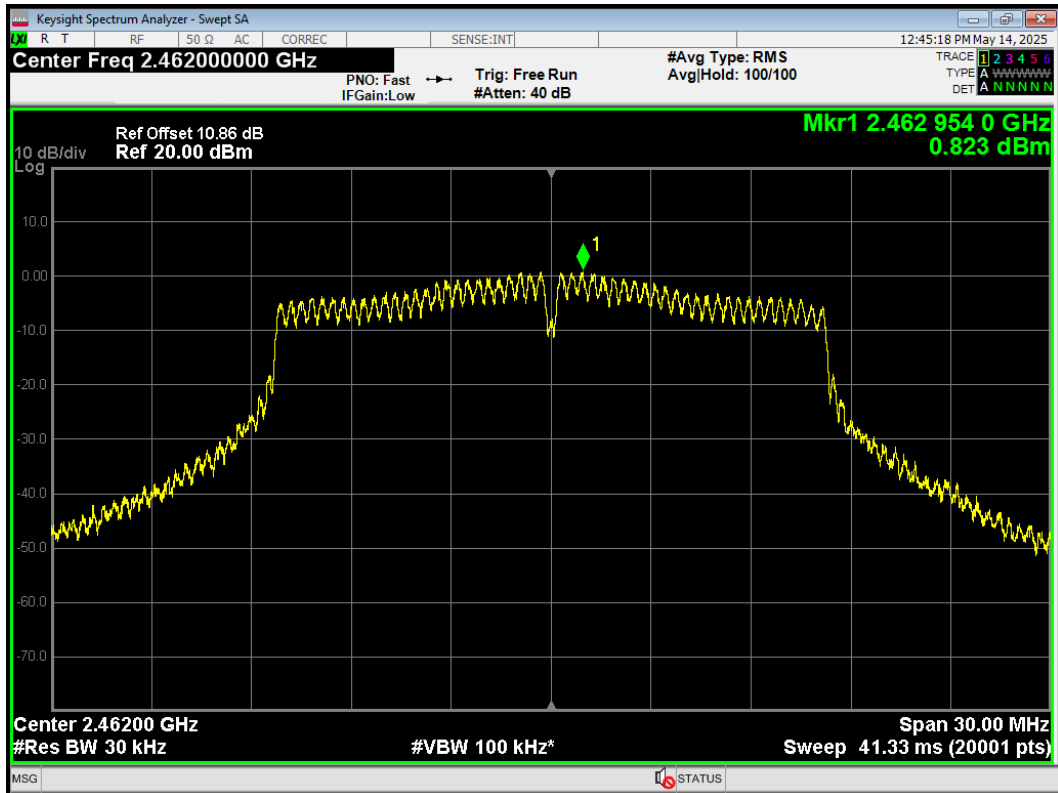
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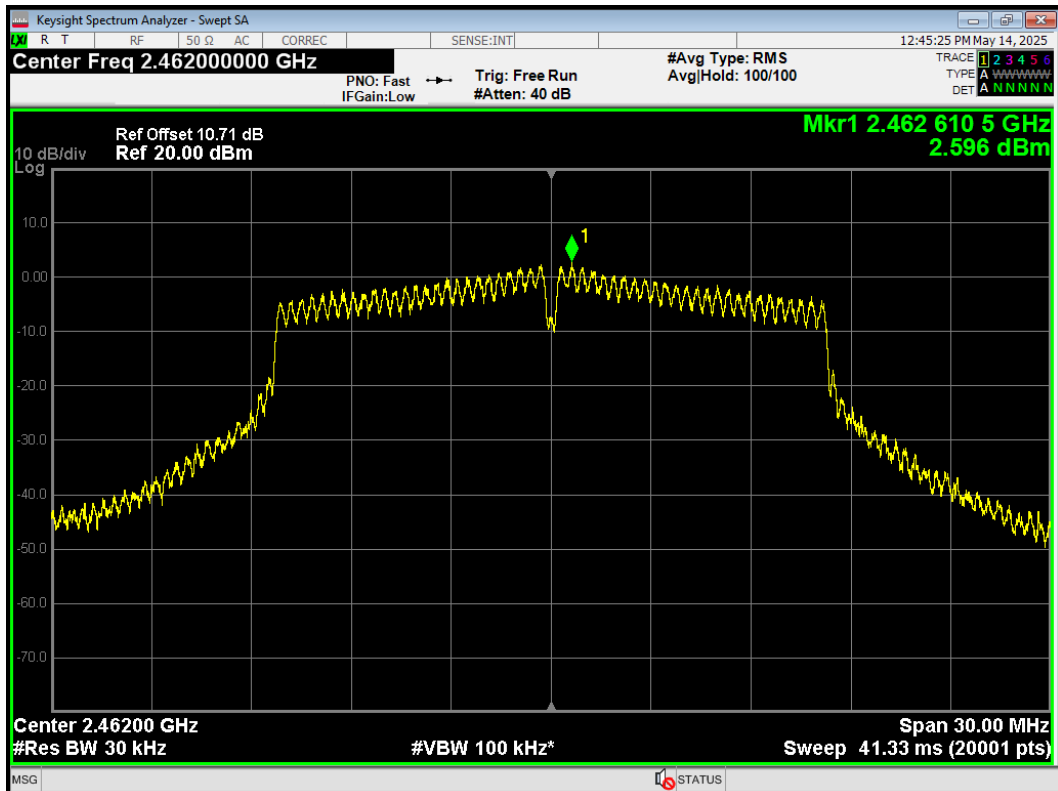
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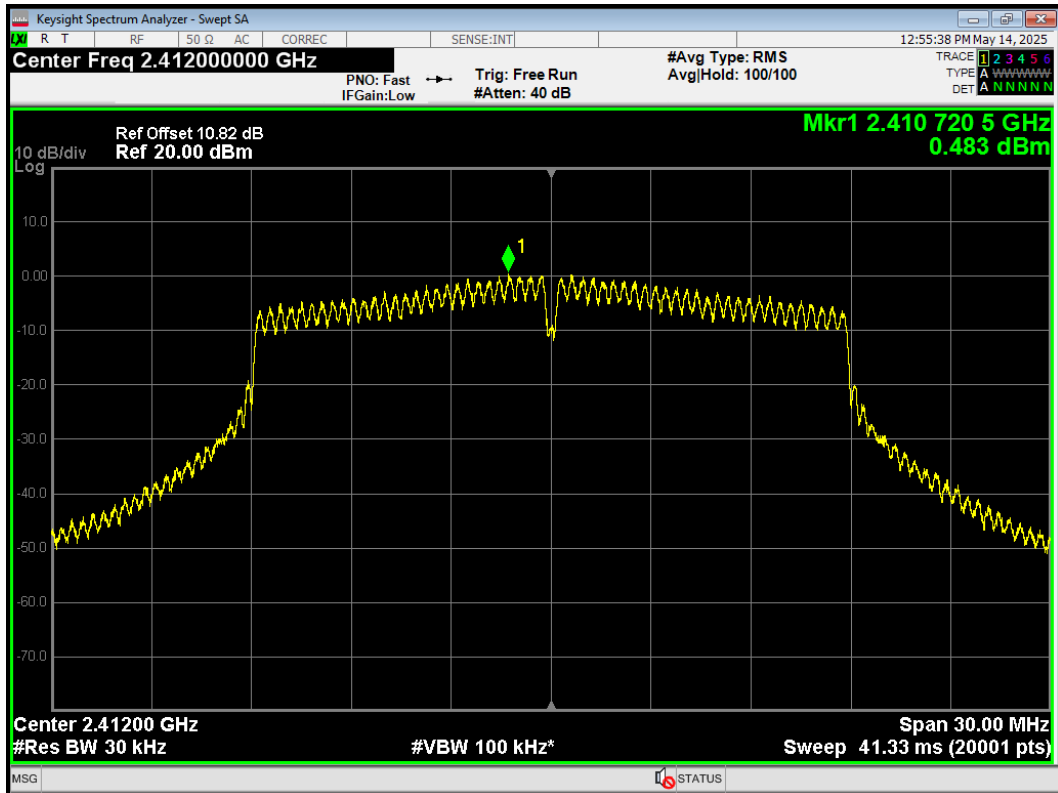
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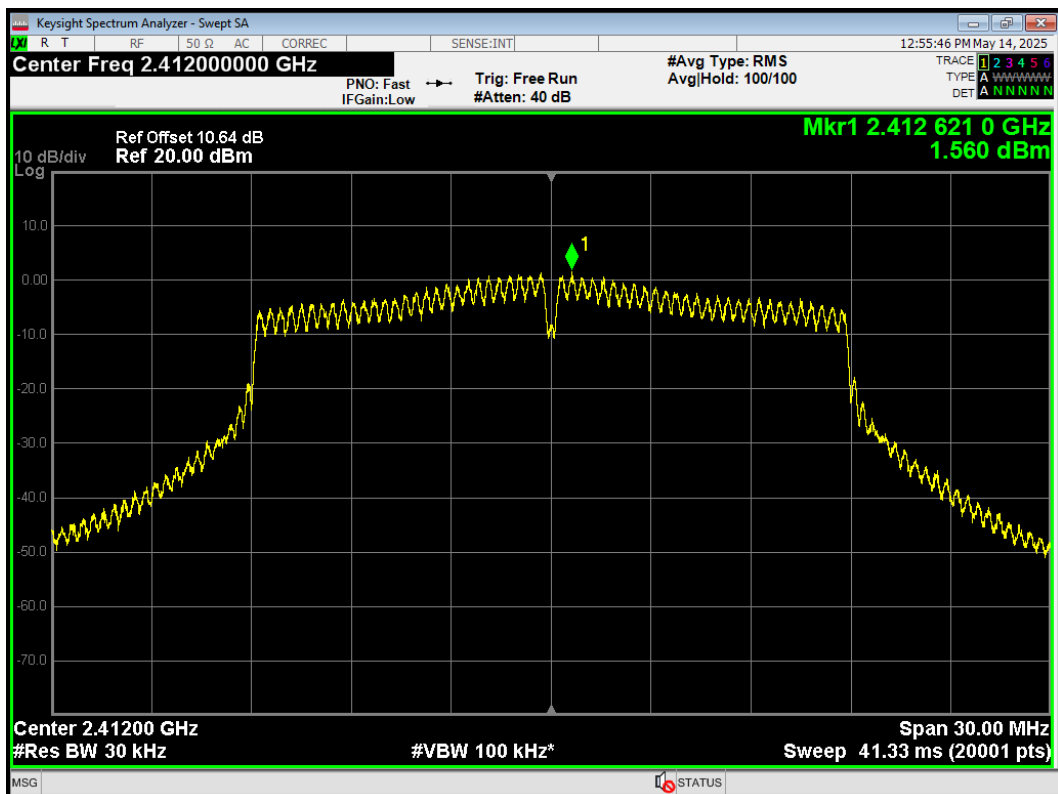
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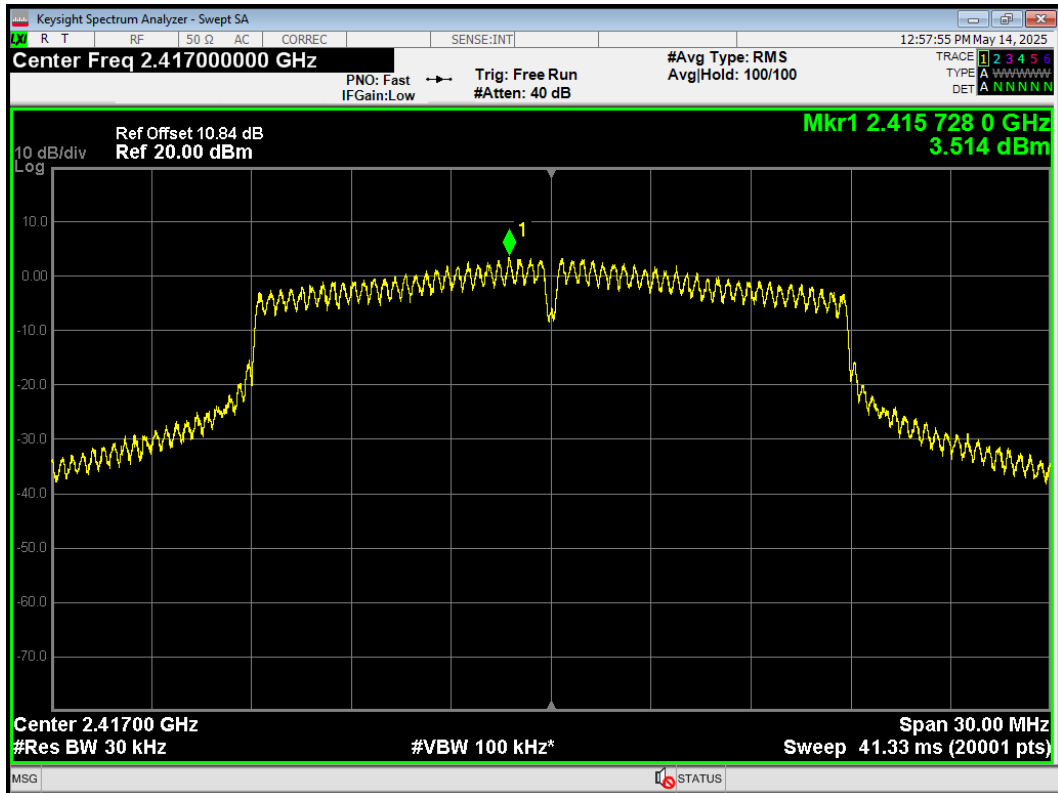
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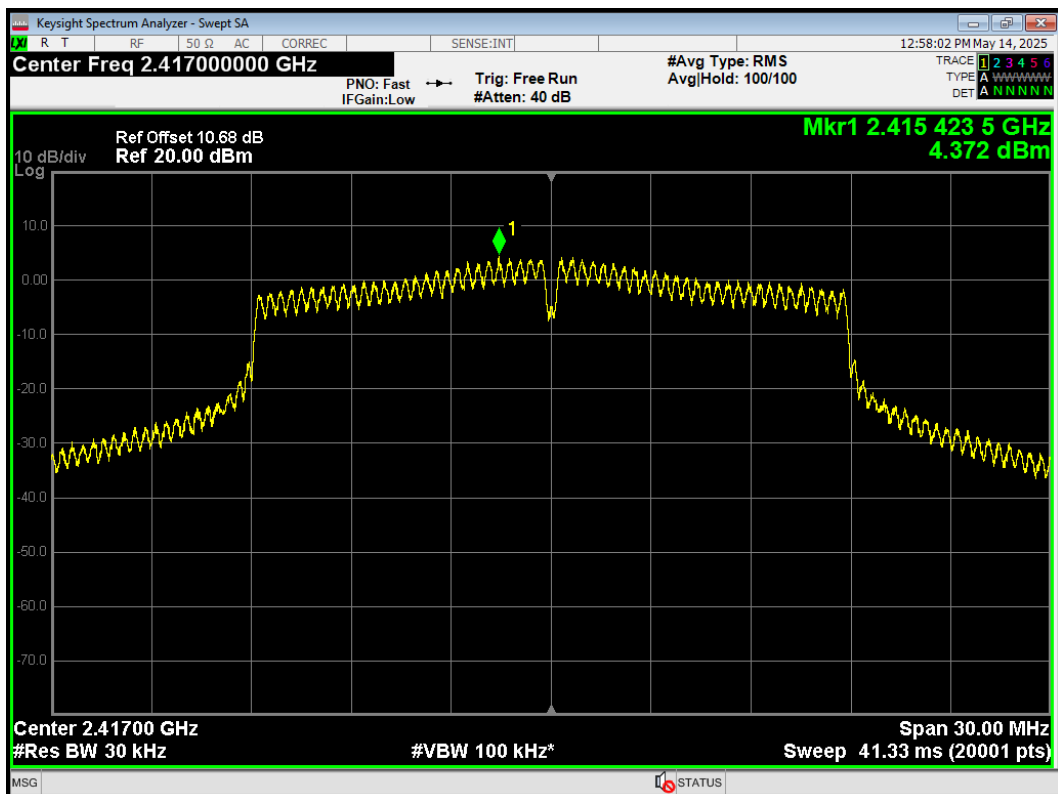
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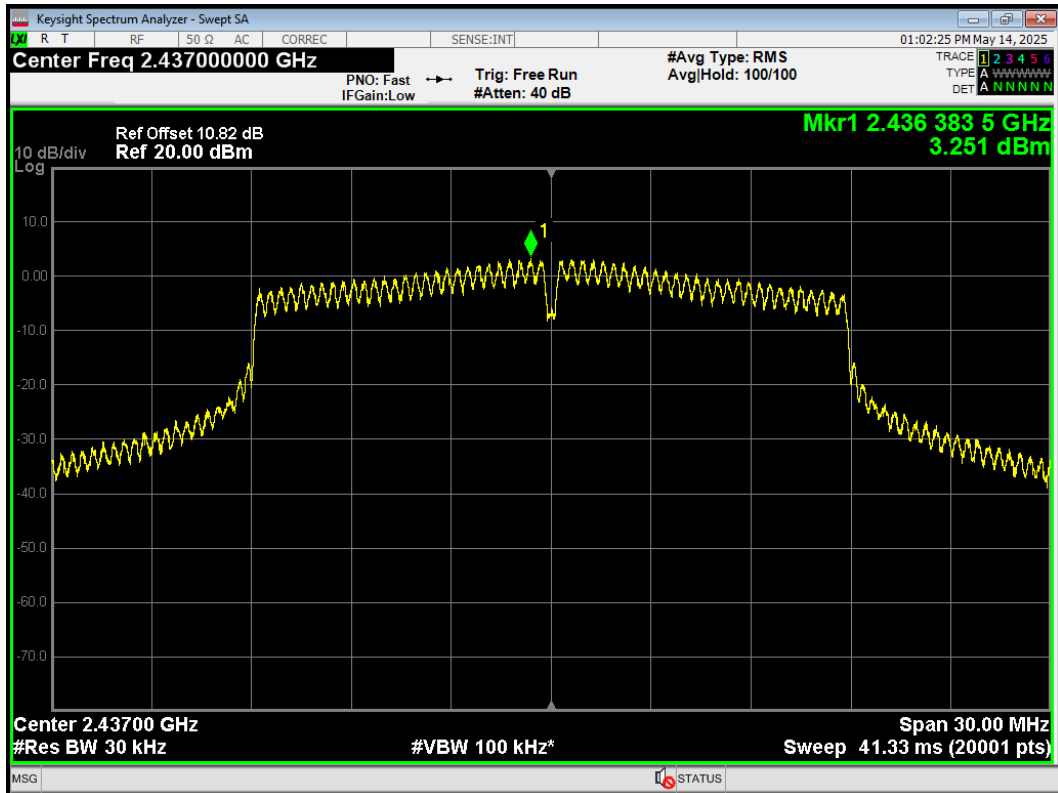
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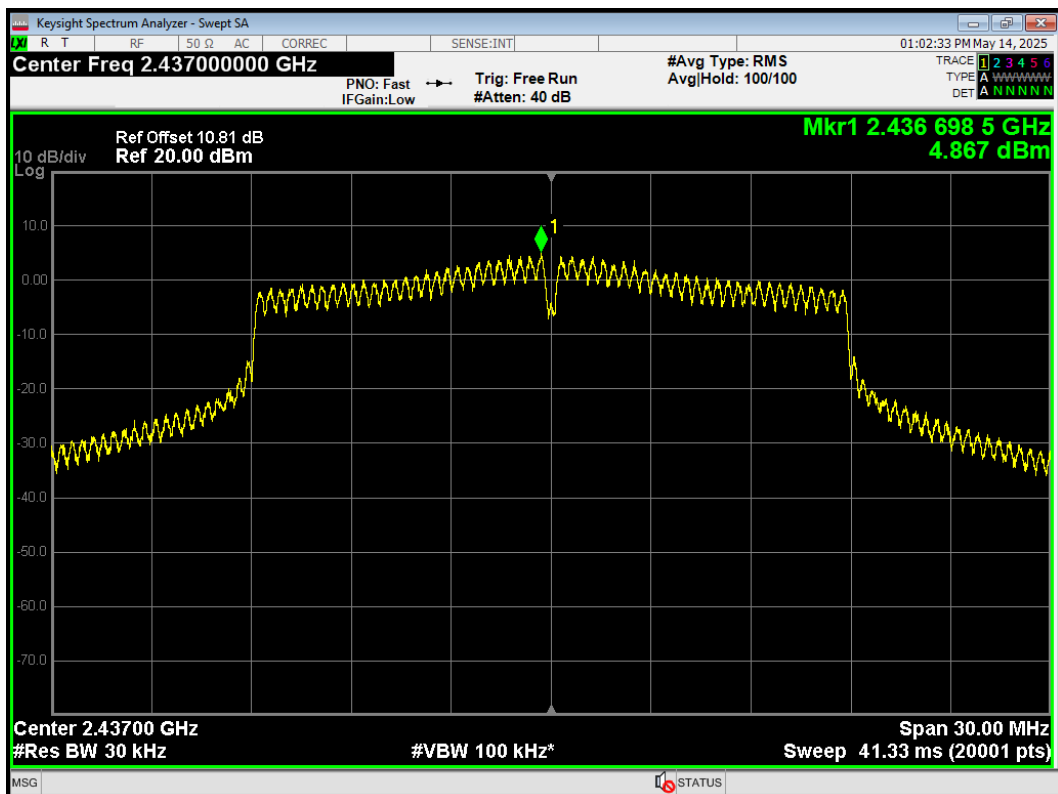
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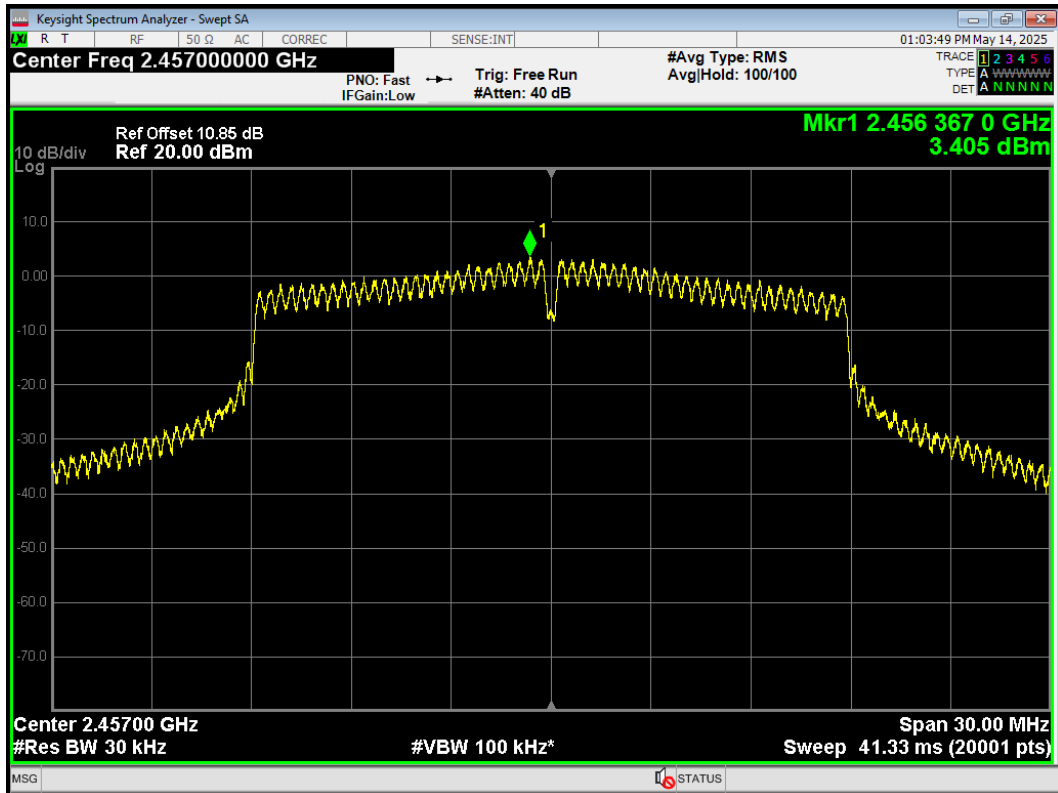
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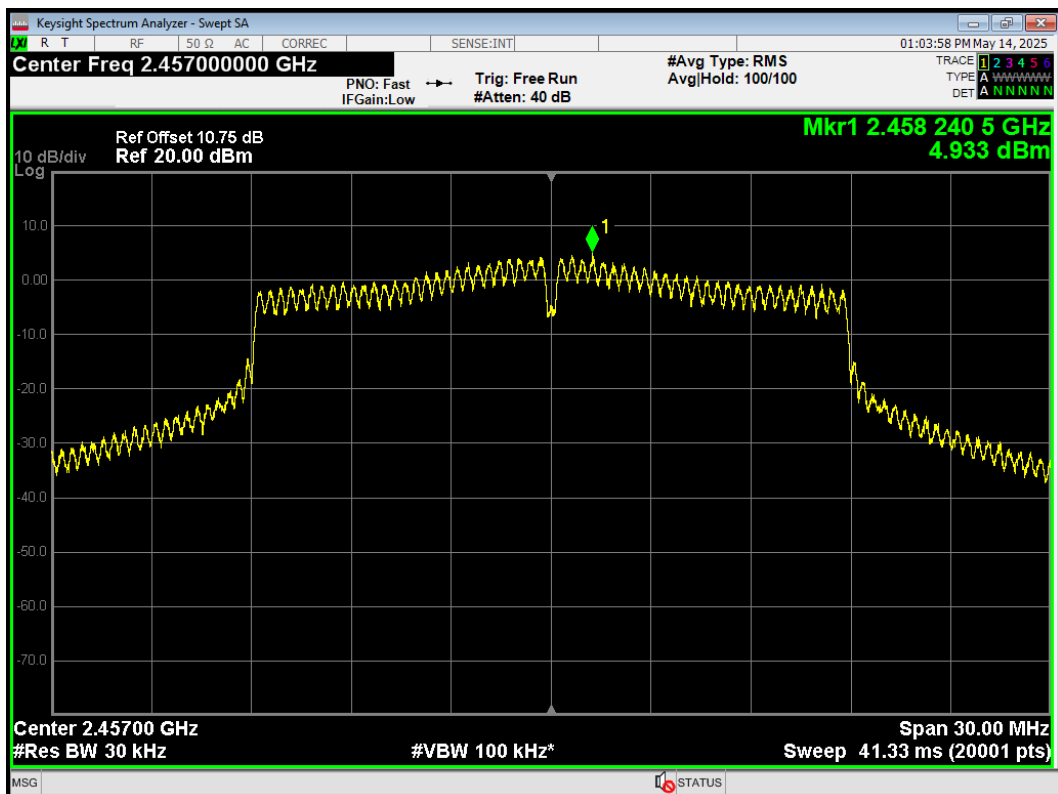
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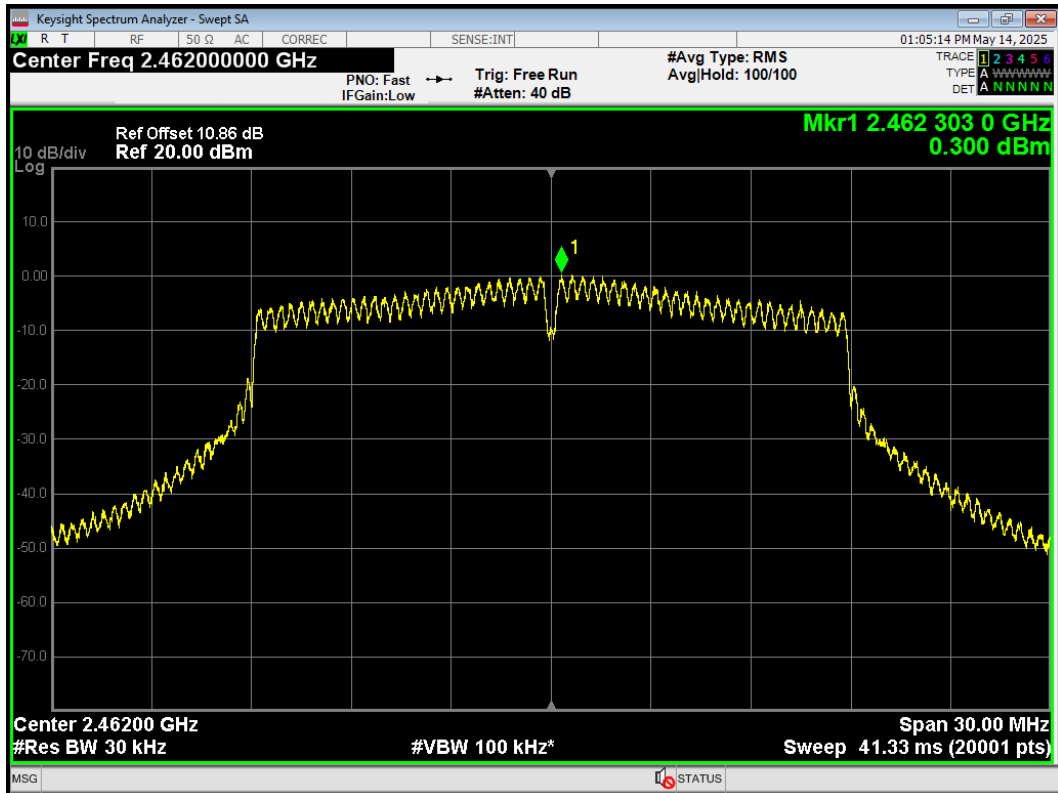
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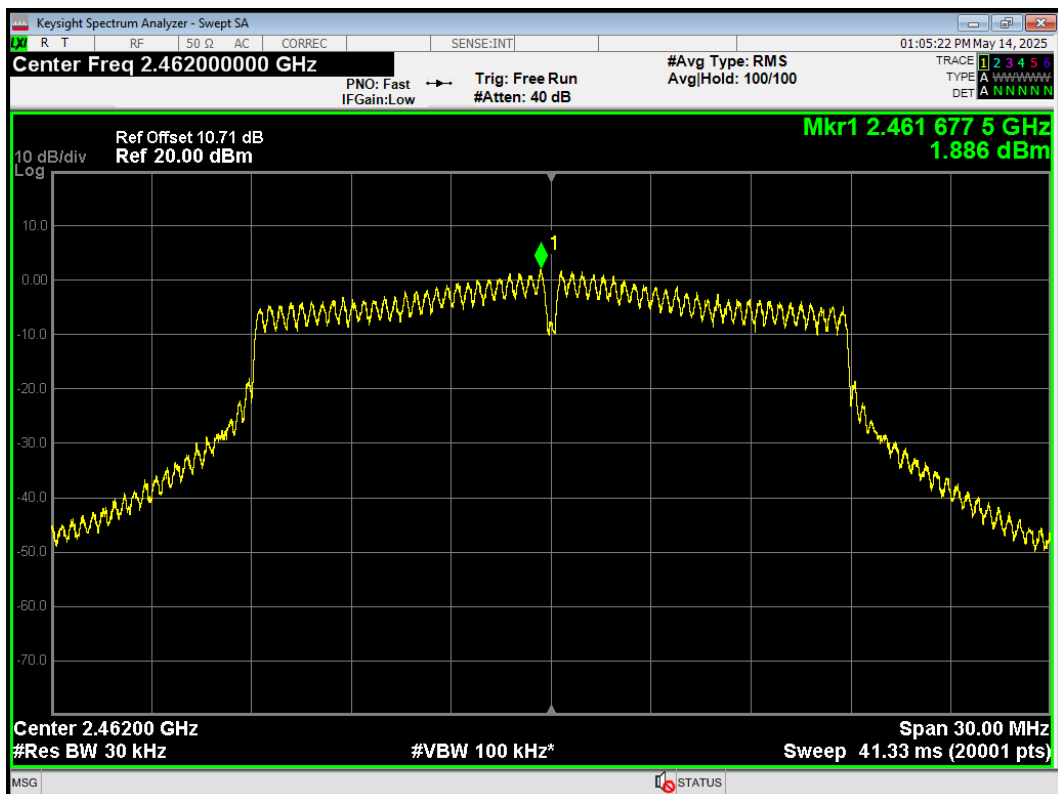
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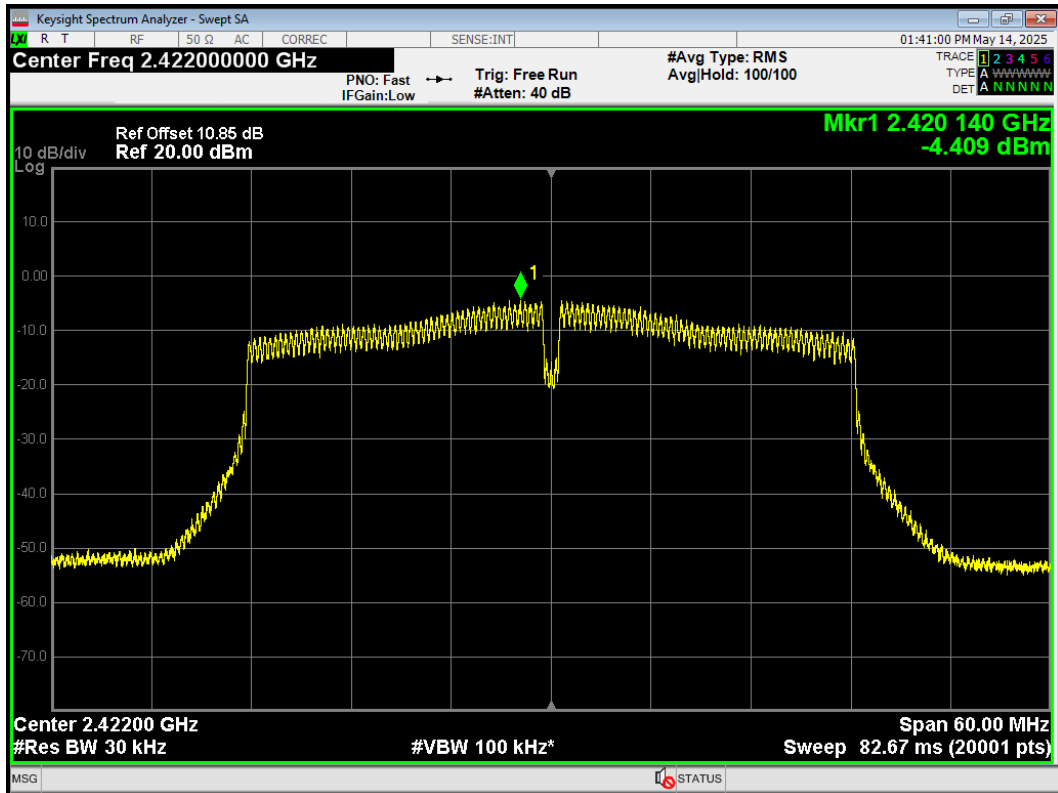
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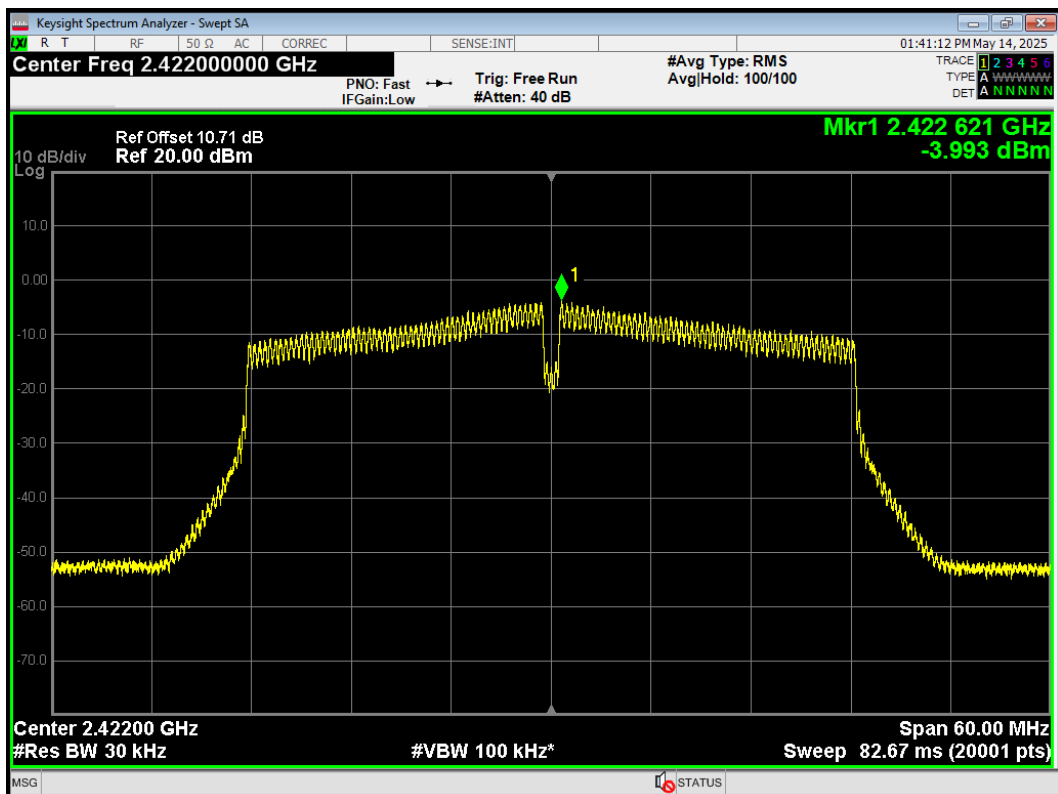
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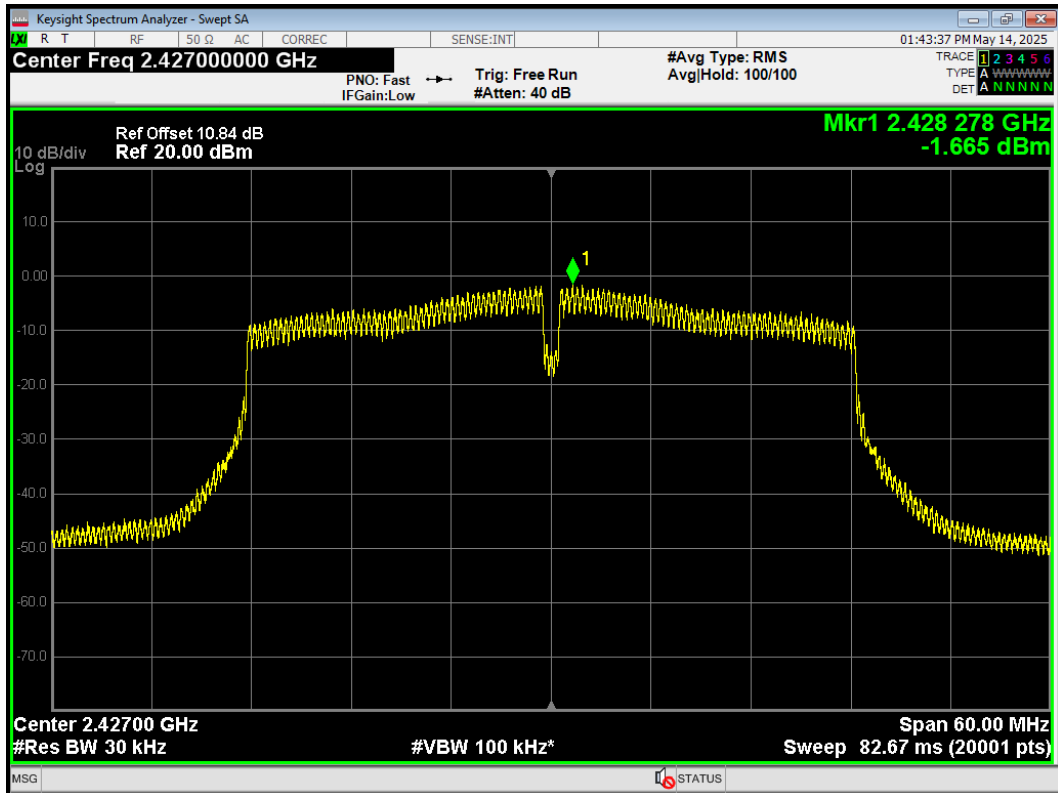
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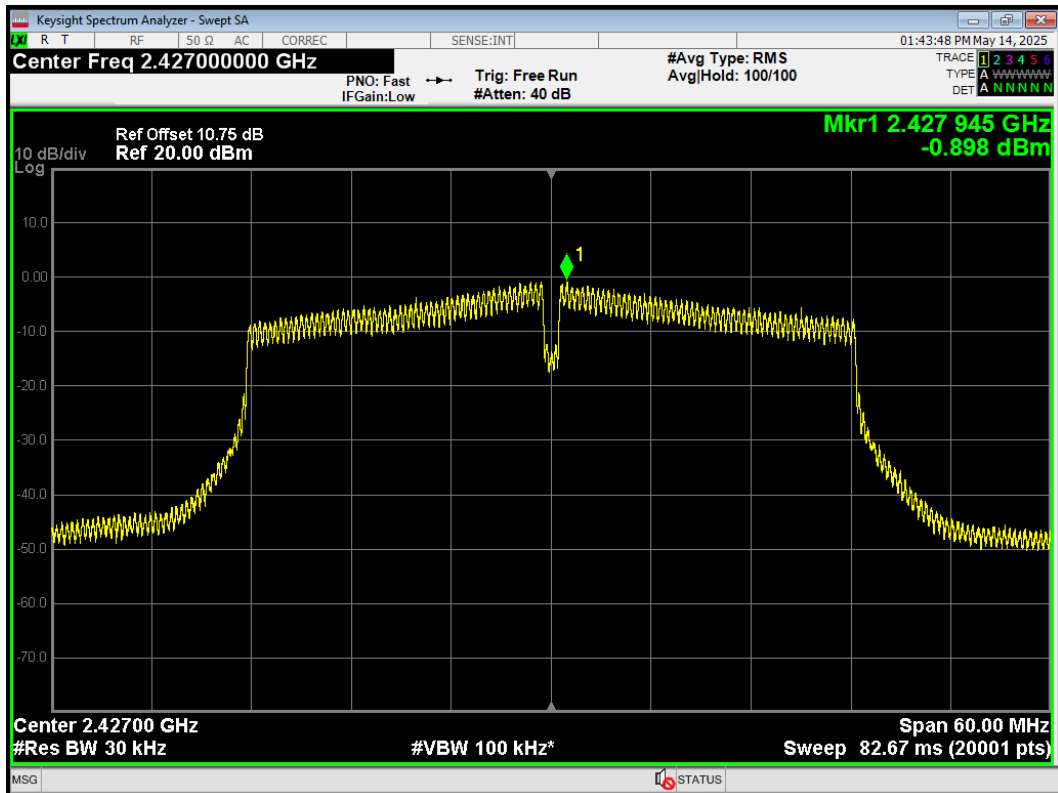
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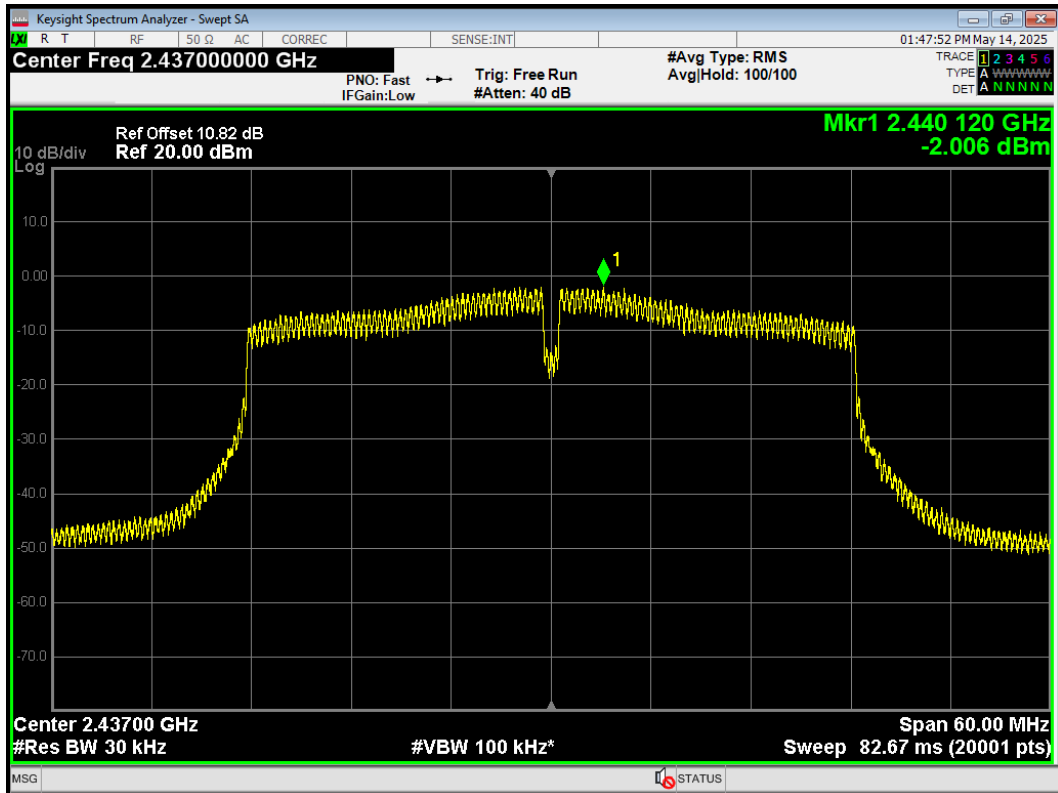
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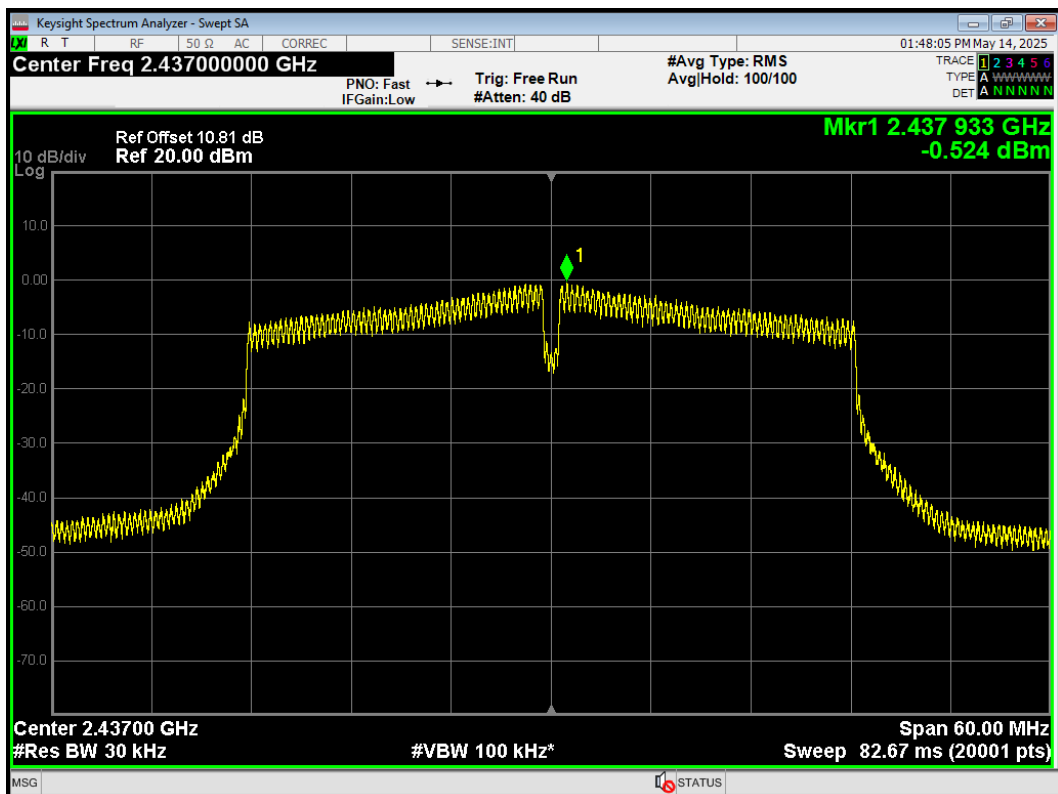
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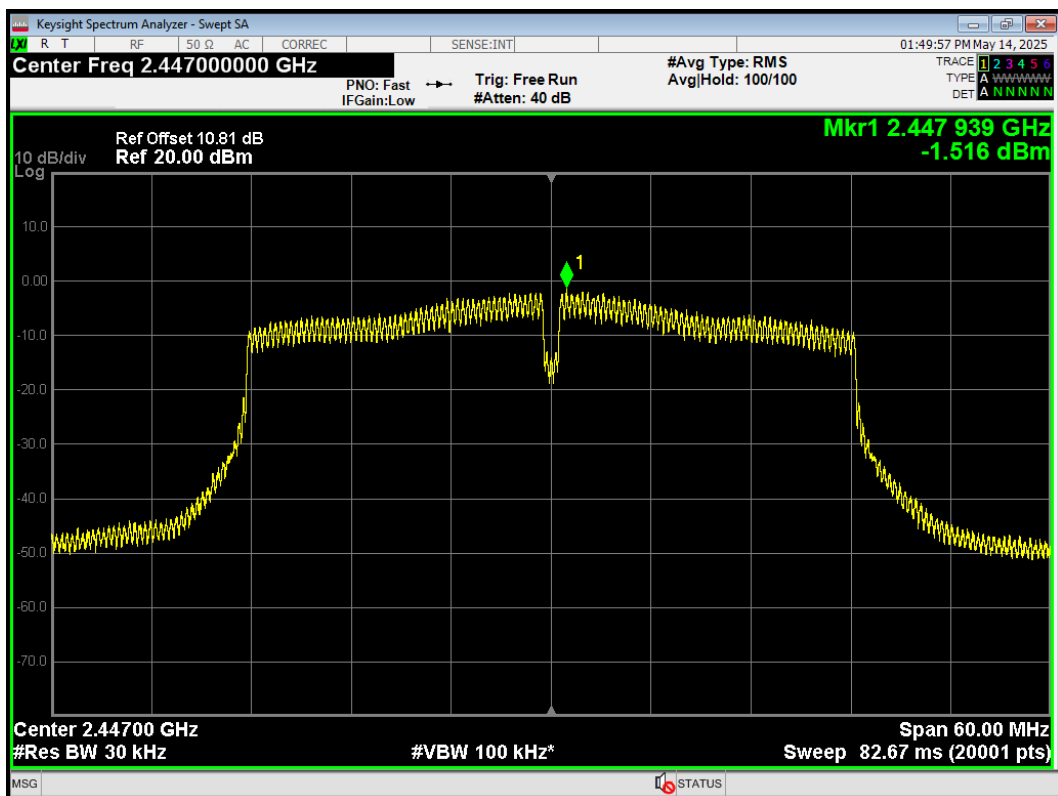
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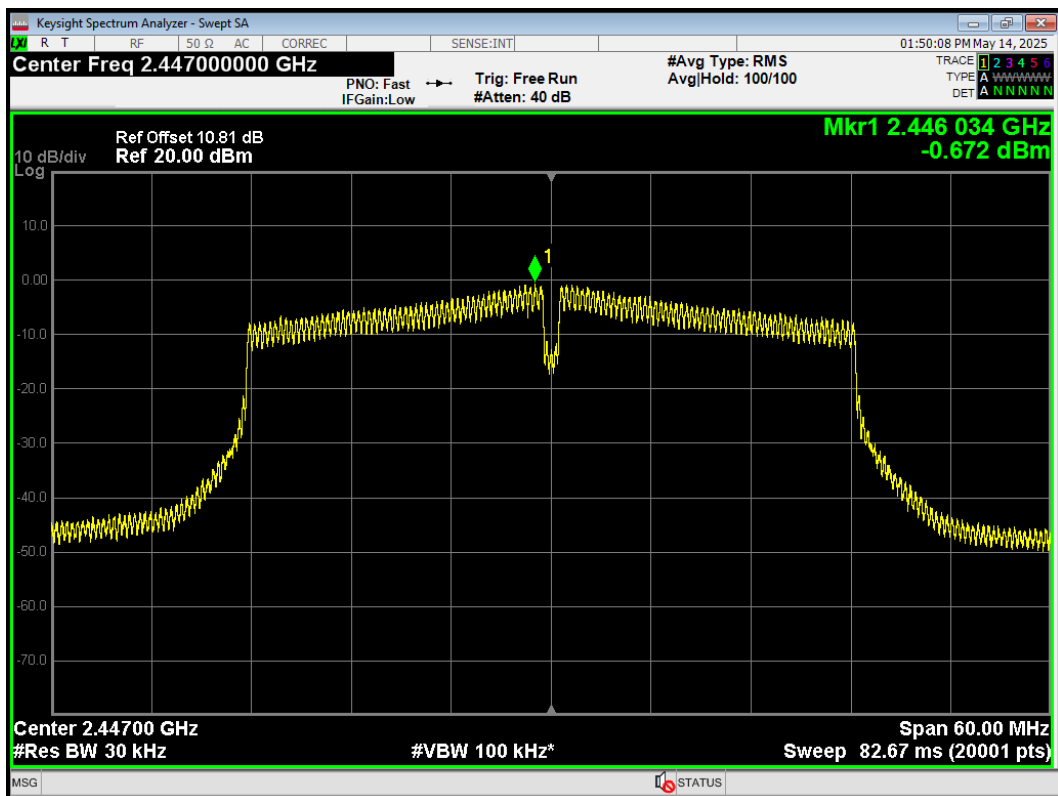
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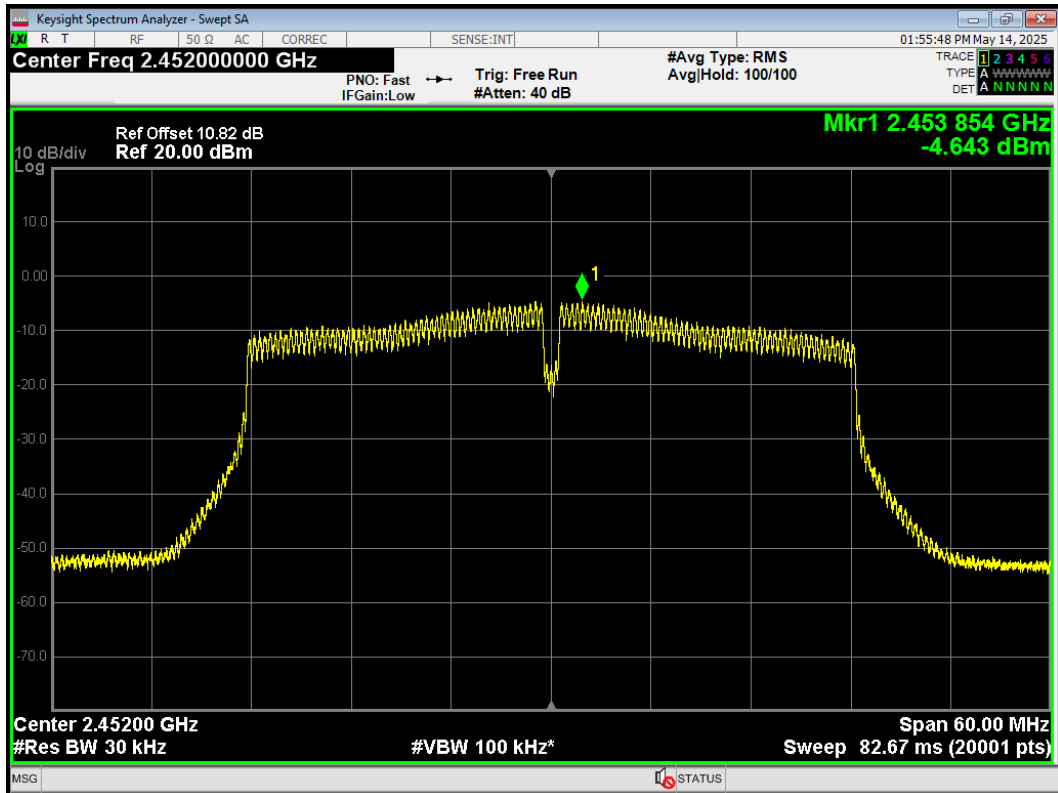
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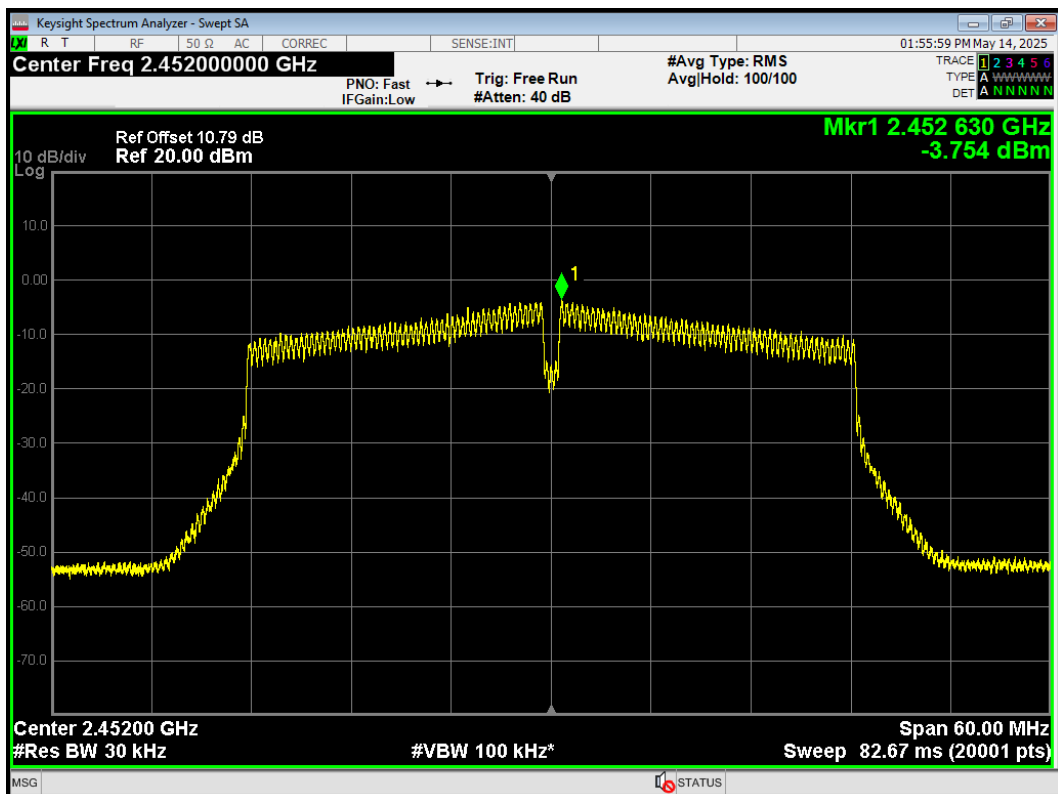
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PSD 802.11n(HT40) 2452MHz Ant1

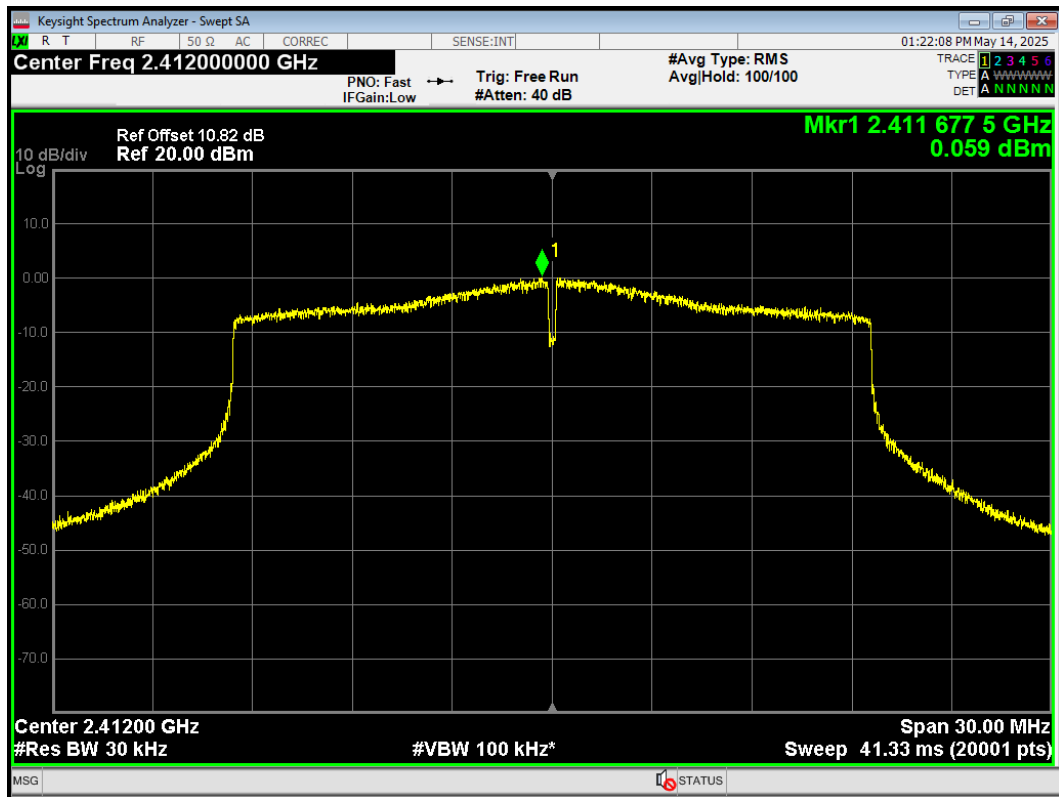


PSD 802.11n(HT40) 2452MHz Ant2

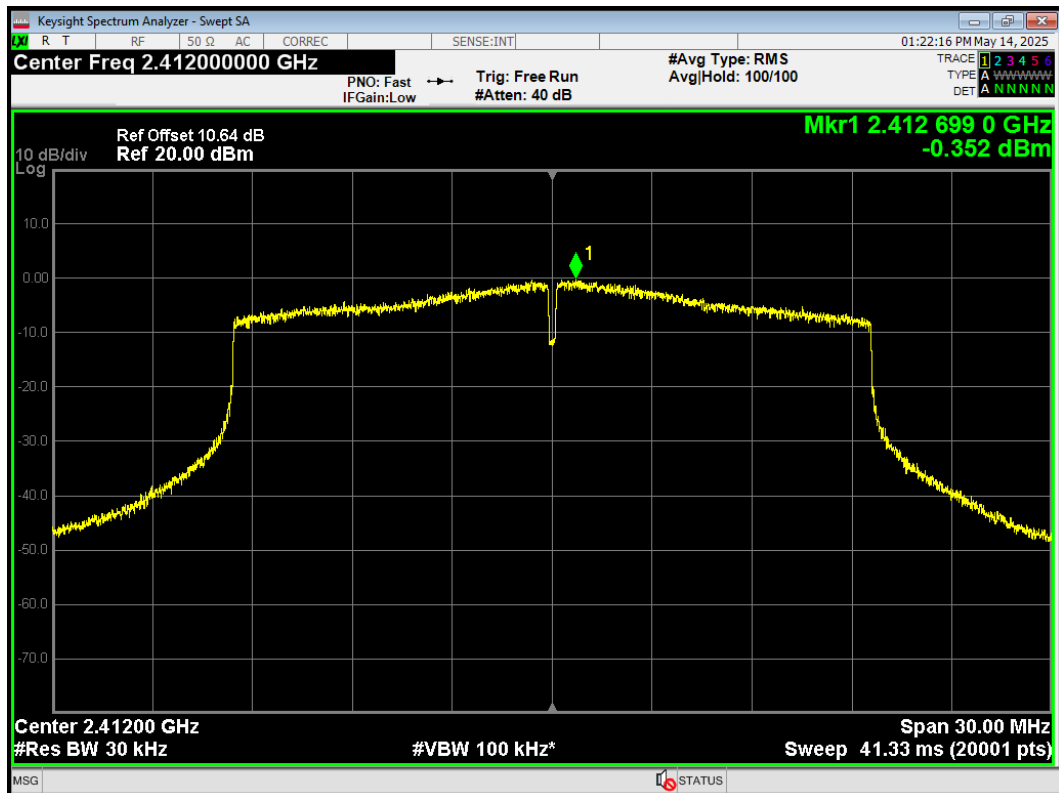


Beamforming

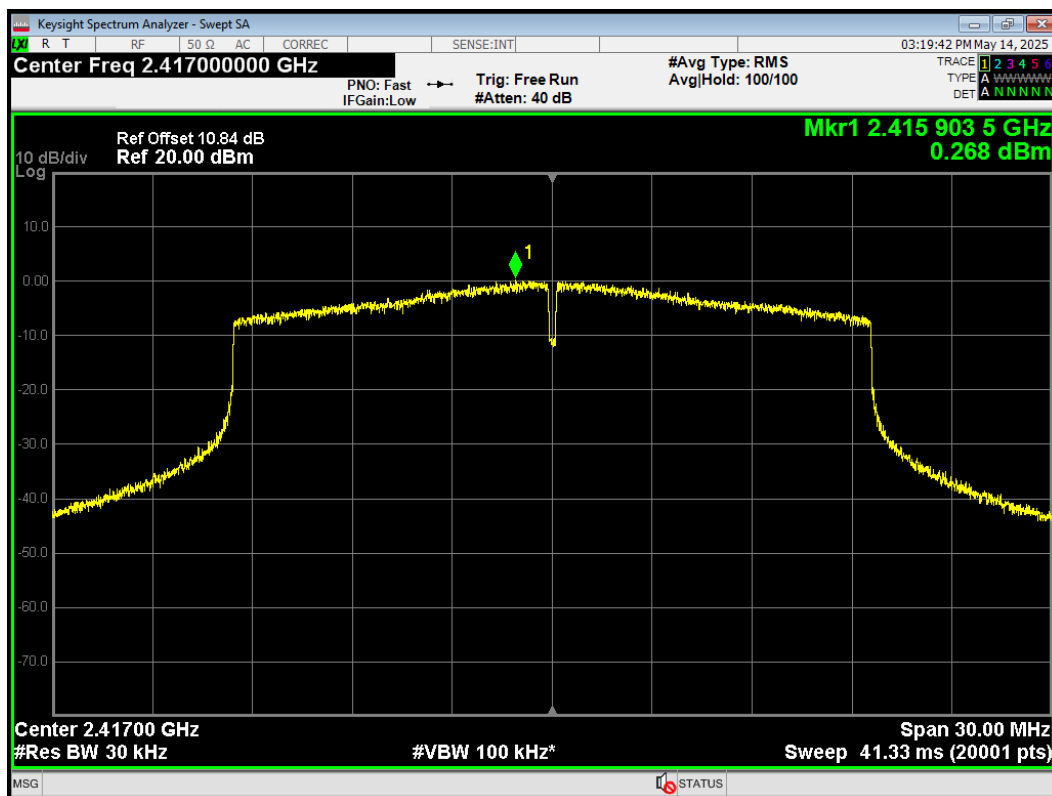
PSD 802.11ax(HE20) 2412MHz Ant1



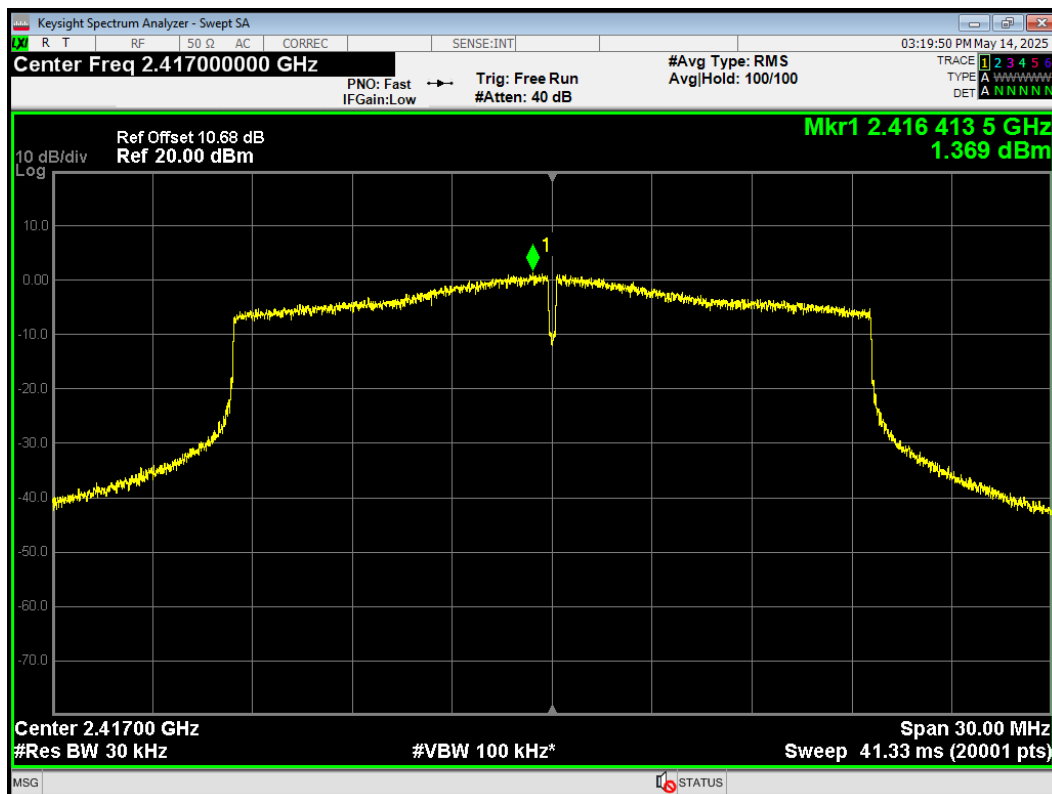
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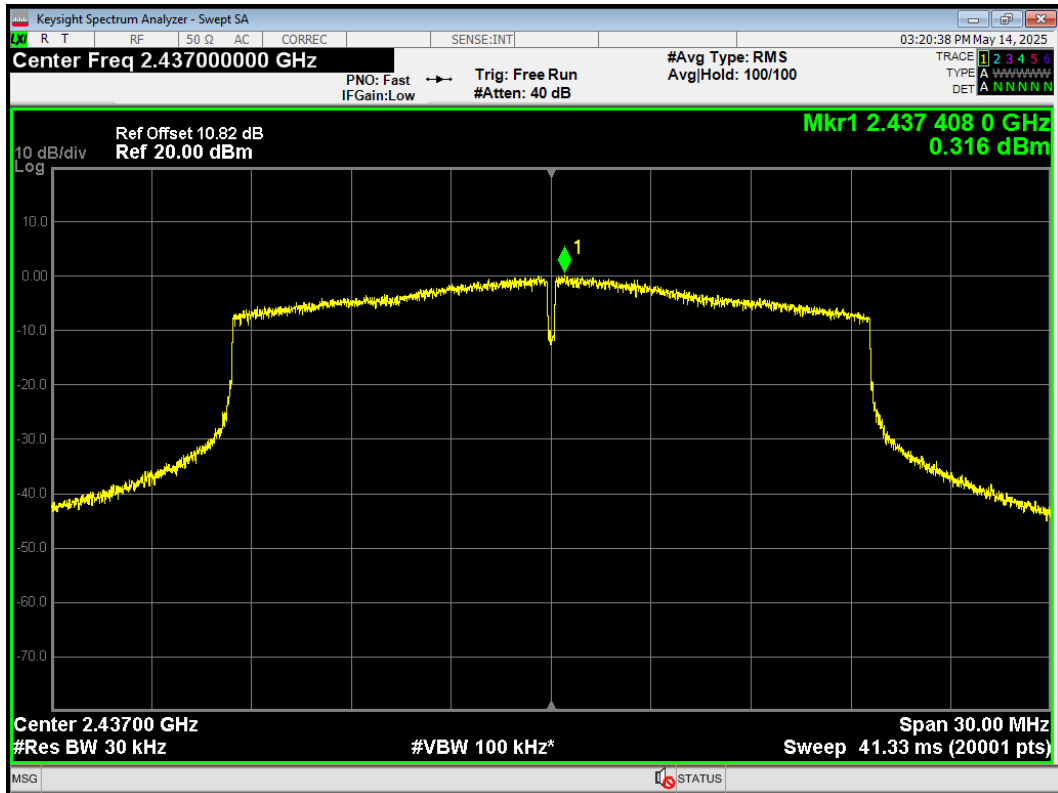
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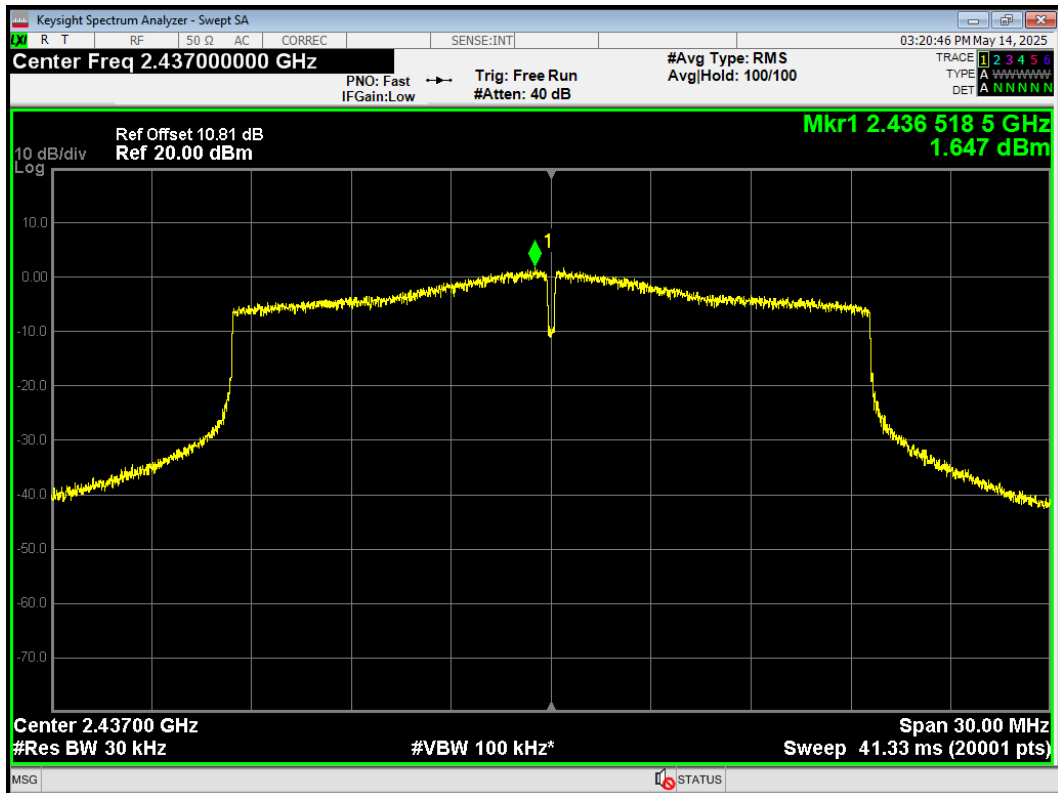
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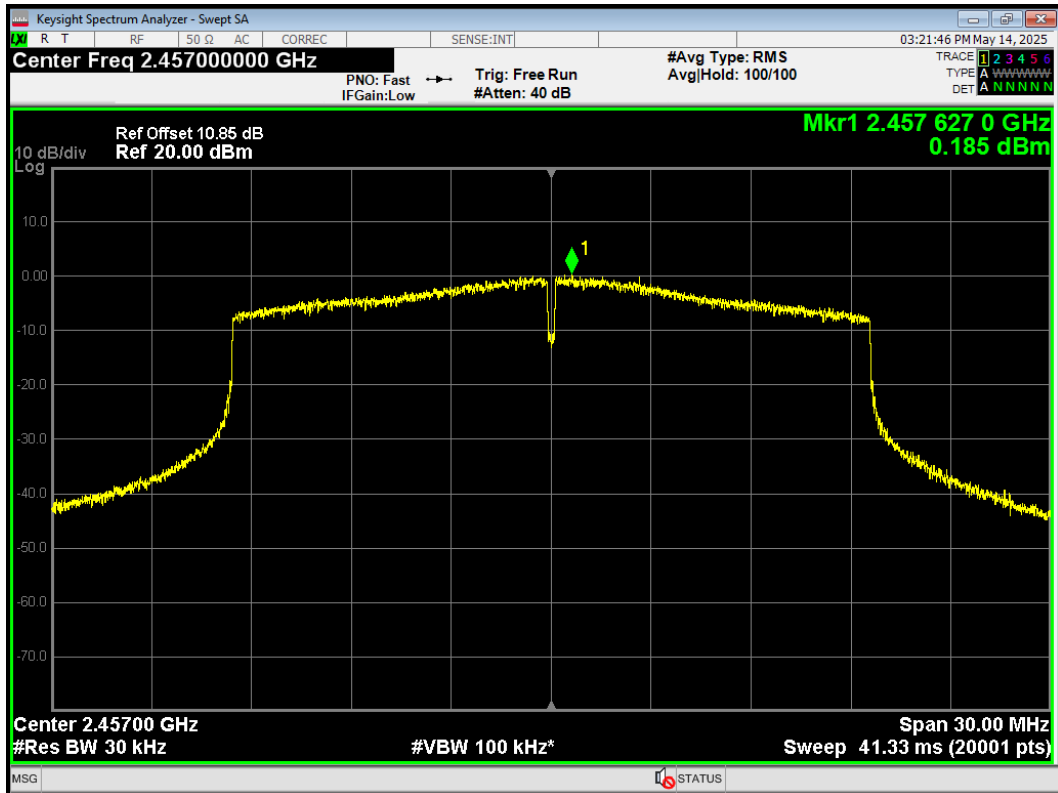
PSD 802.11ax(HE20) 2437MHz Ant1



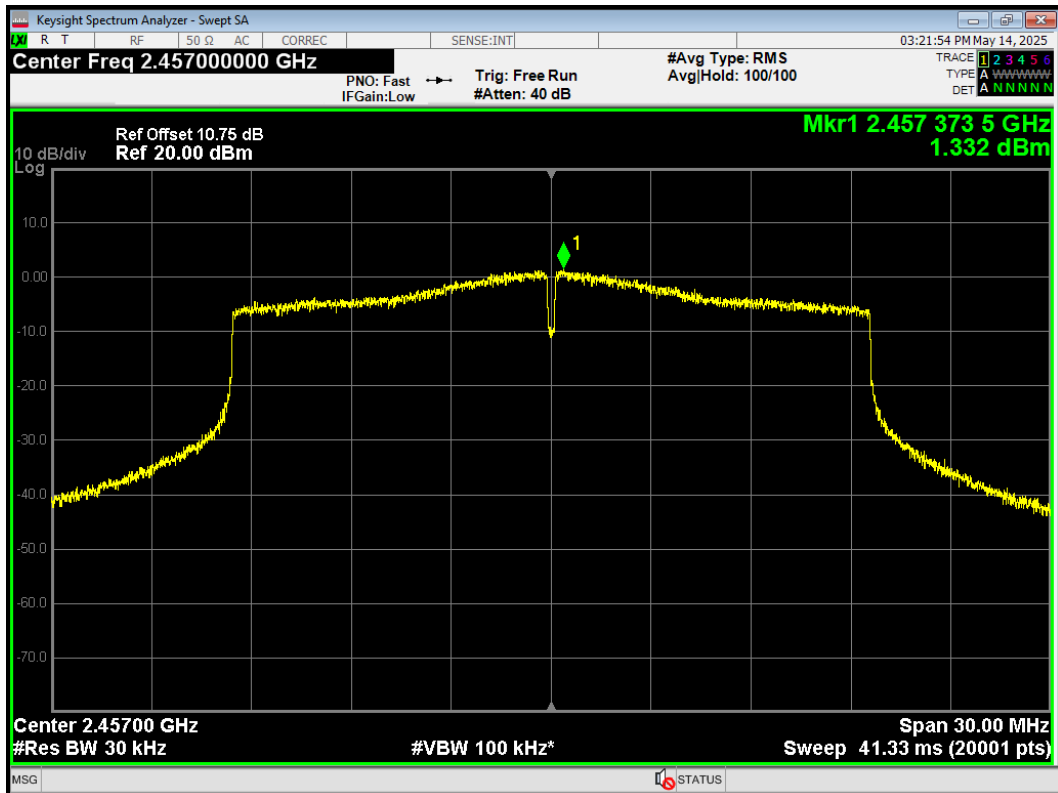
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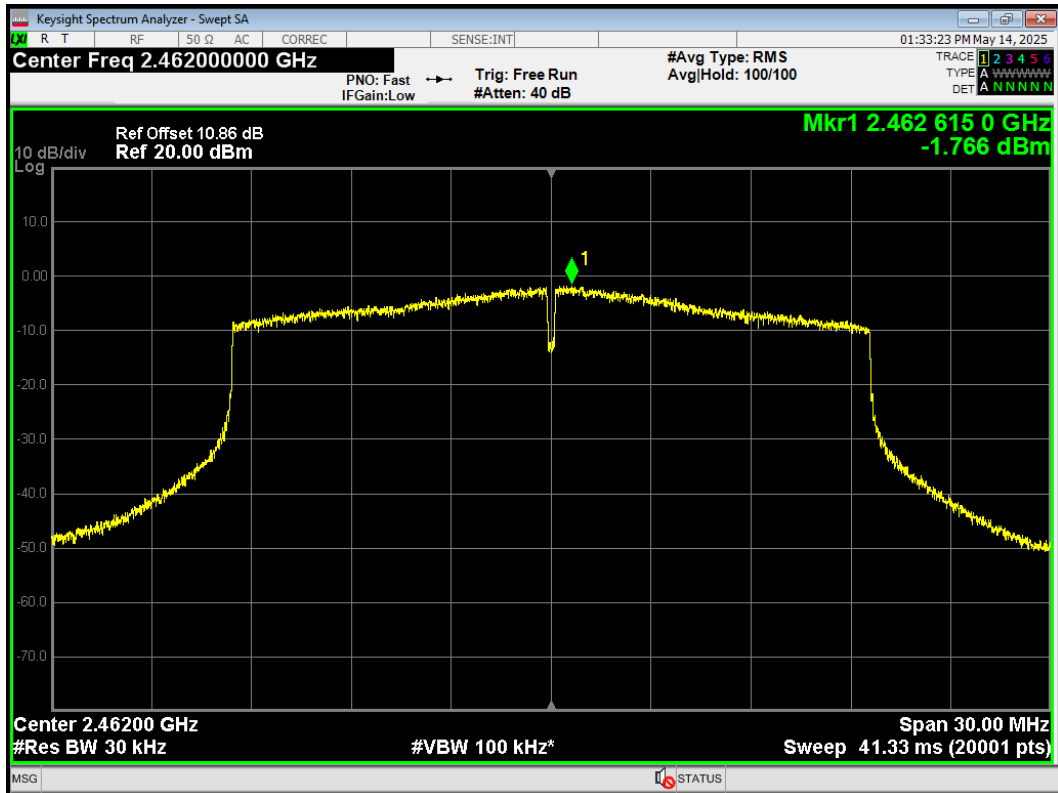
PSD 802.11ax(HE20) 2457MHz Ant1



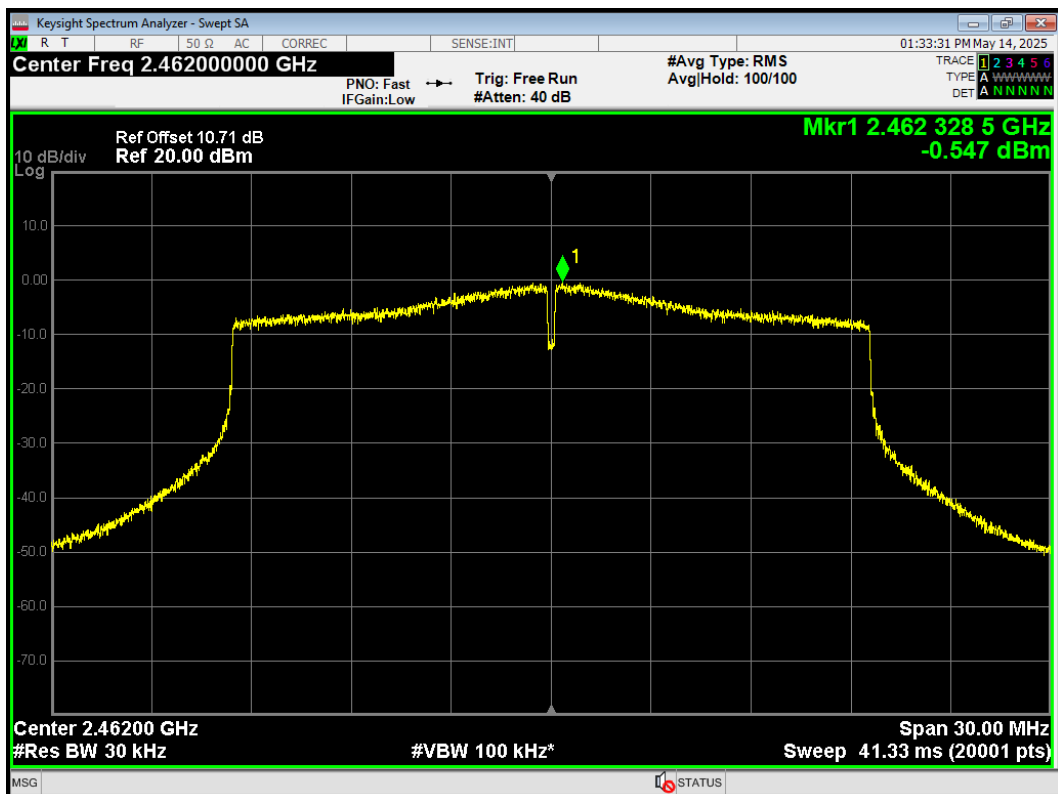
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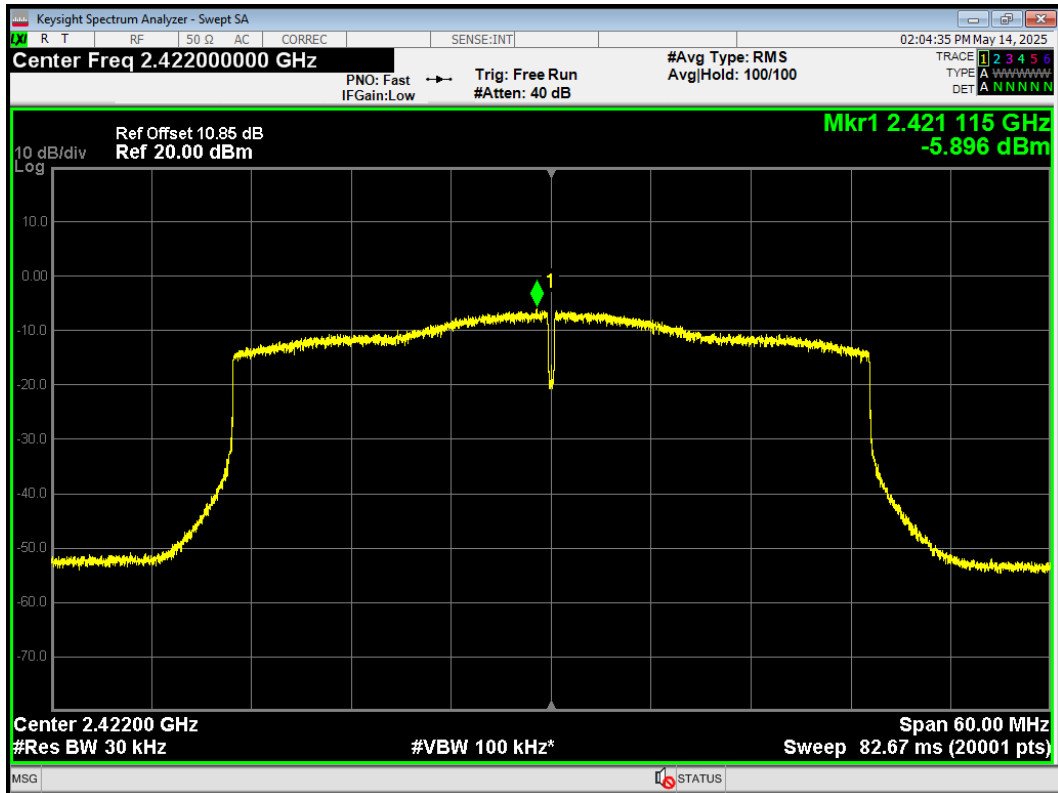
PSD 802.11ax(HE20) 2462MHz Ant1



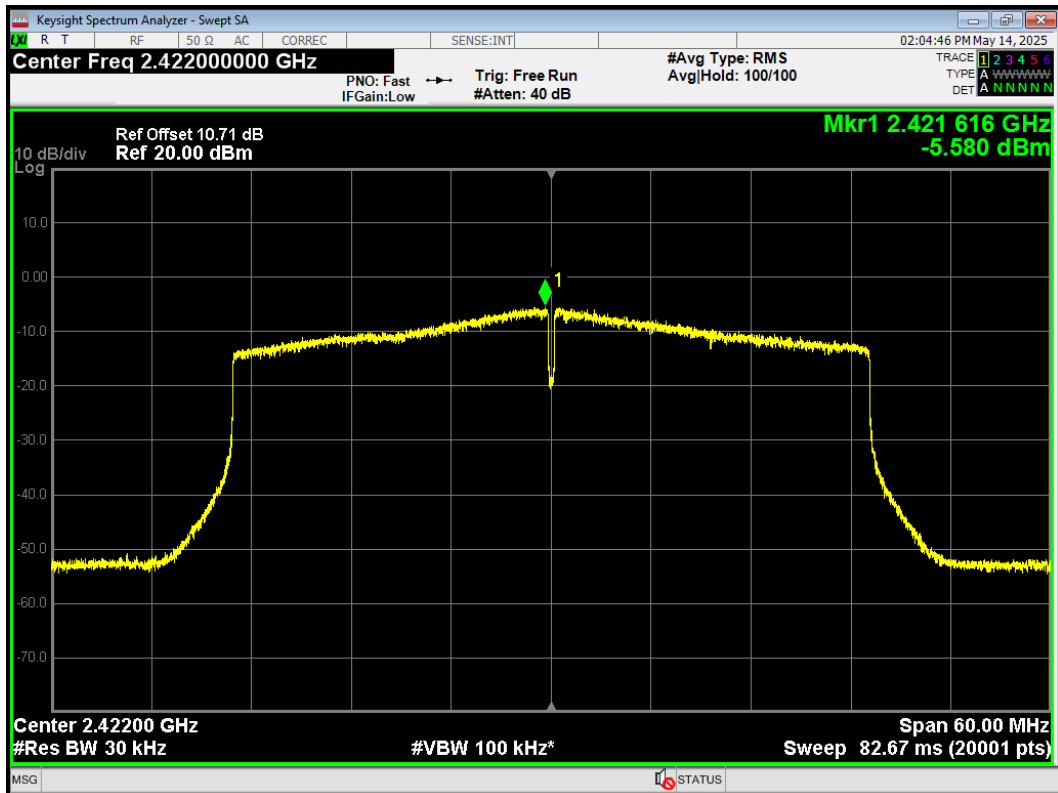
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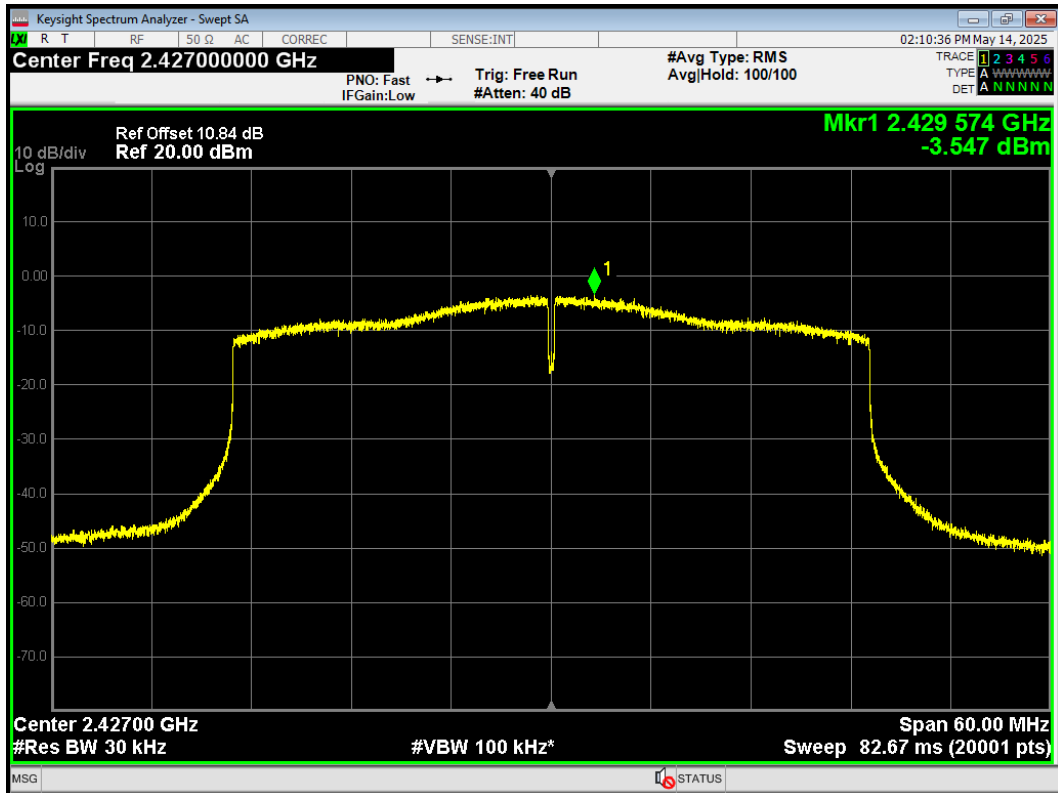
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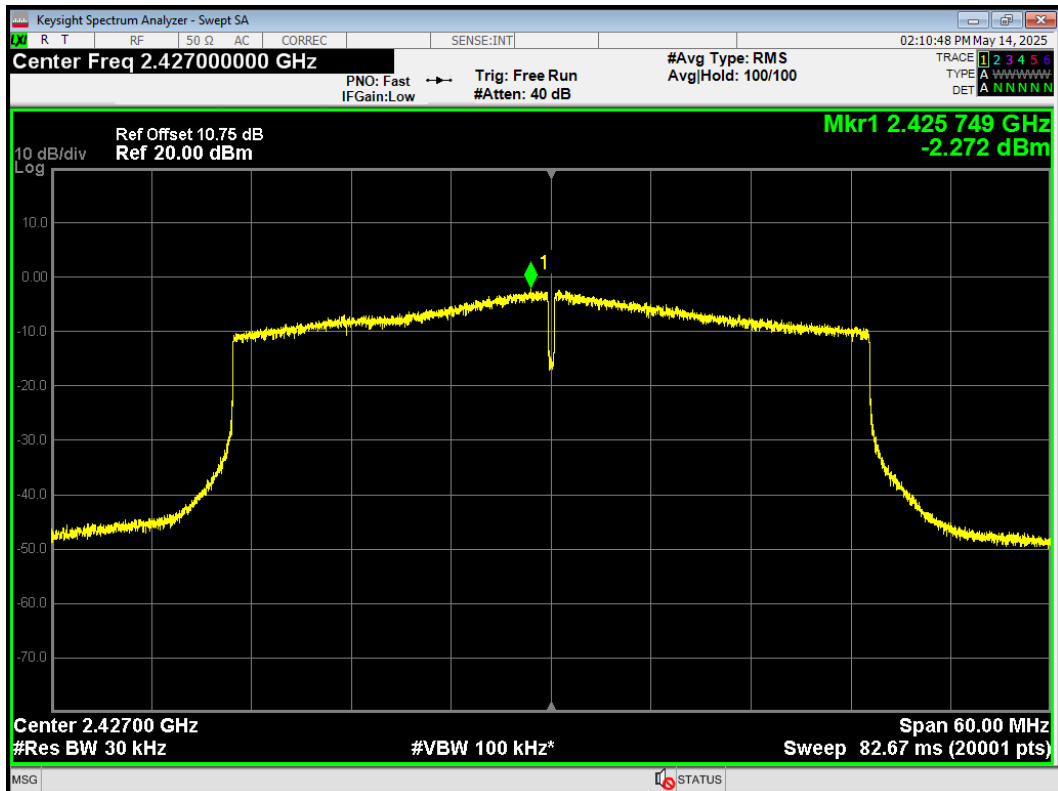
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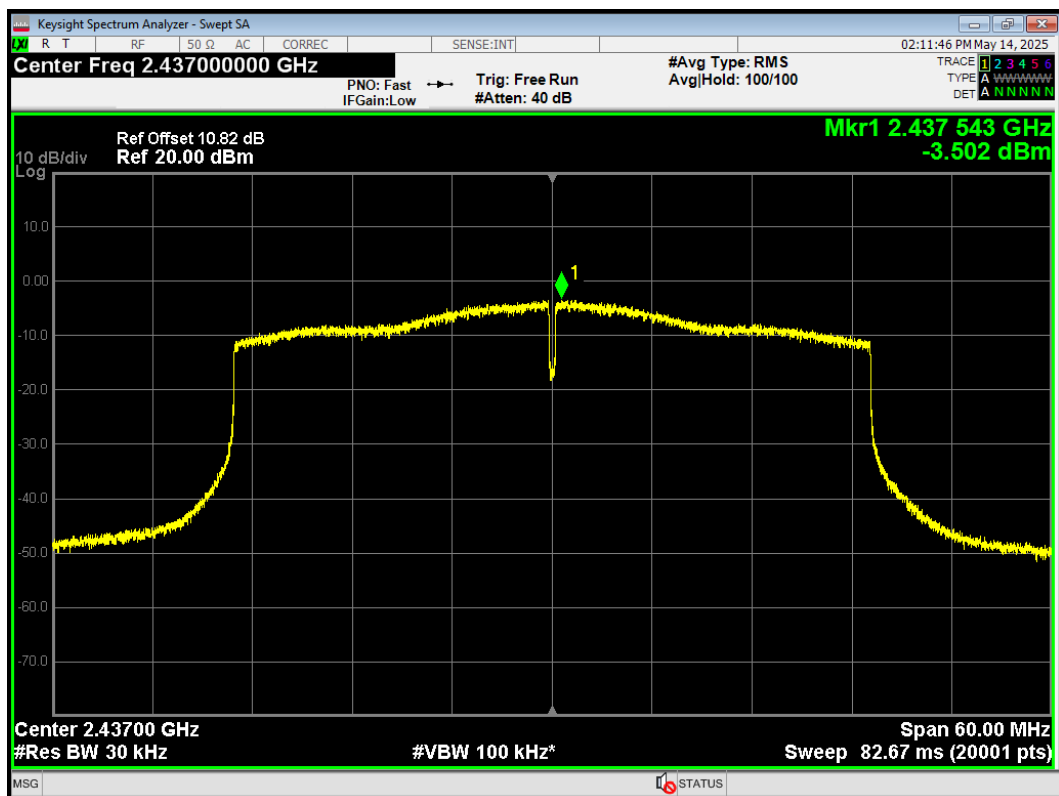
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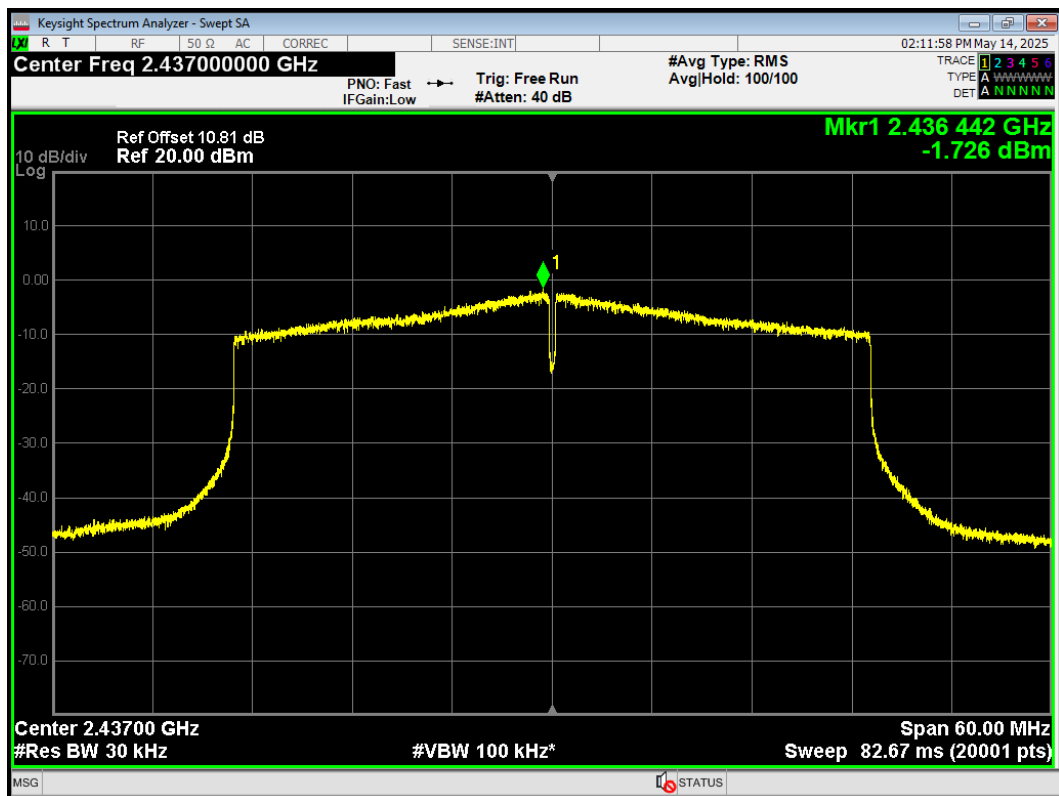
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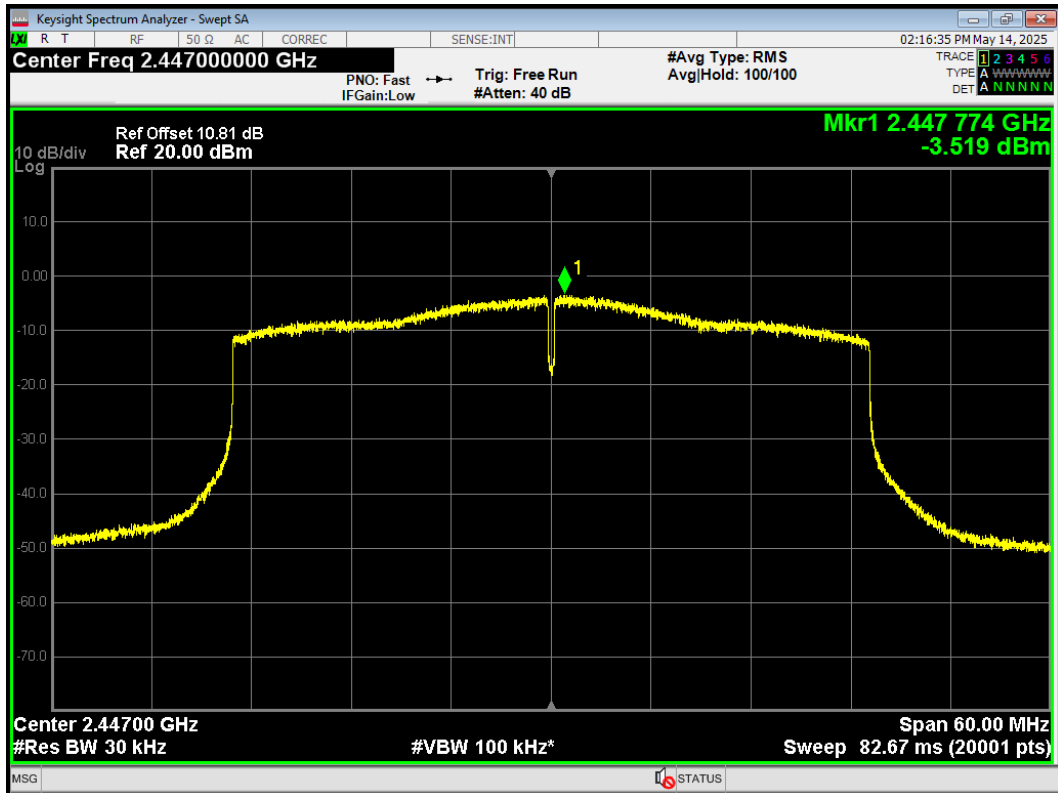
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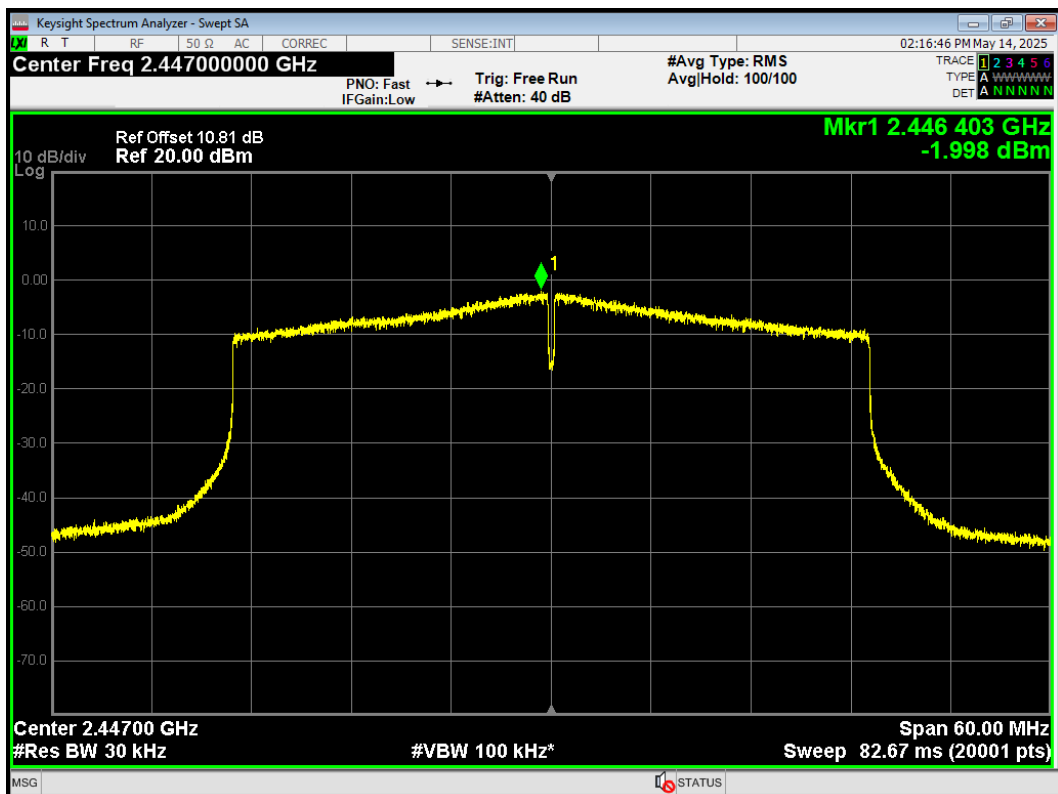
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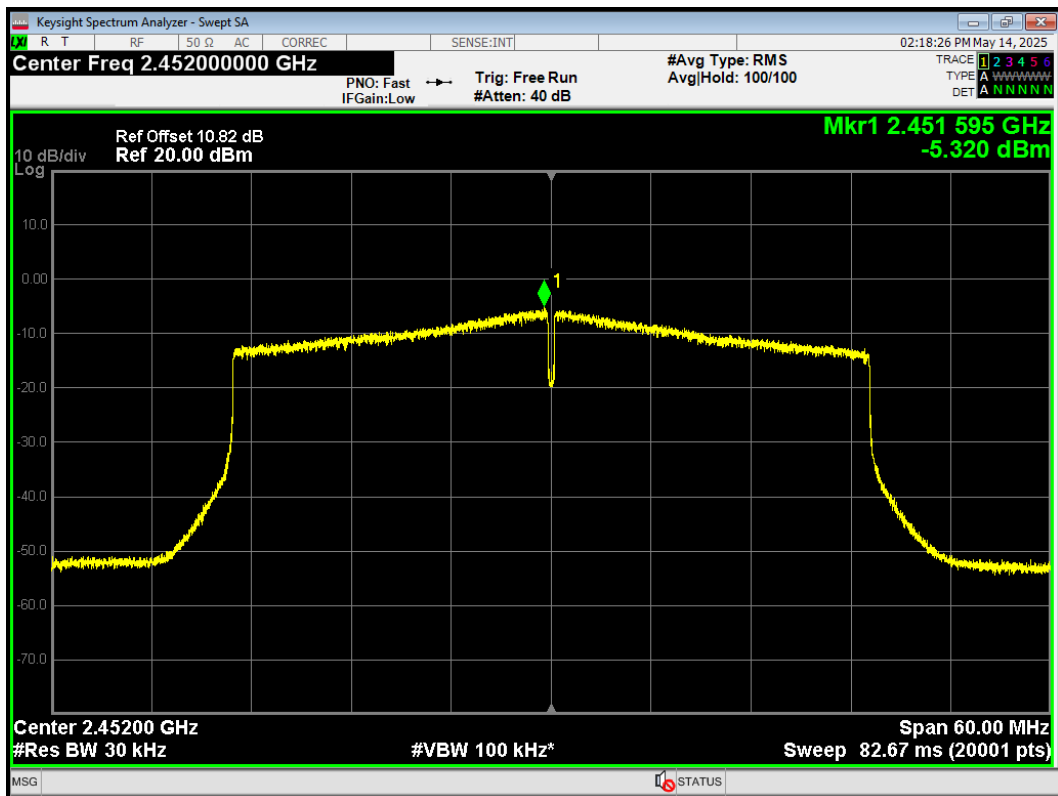
PSD 802.11ax(HE40) 2447MHz Ant1



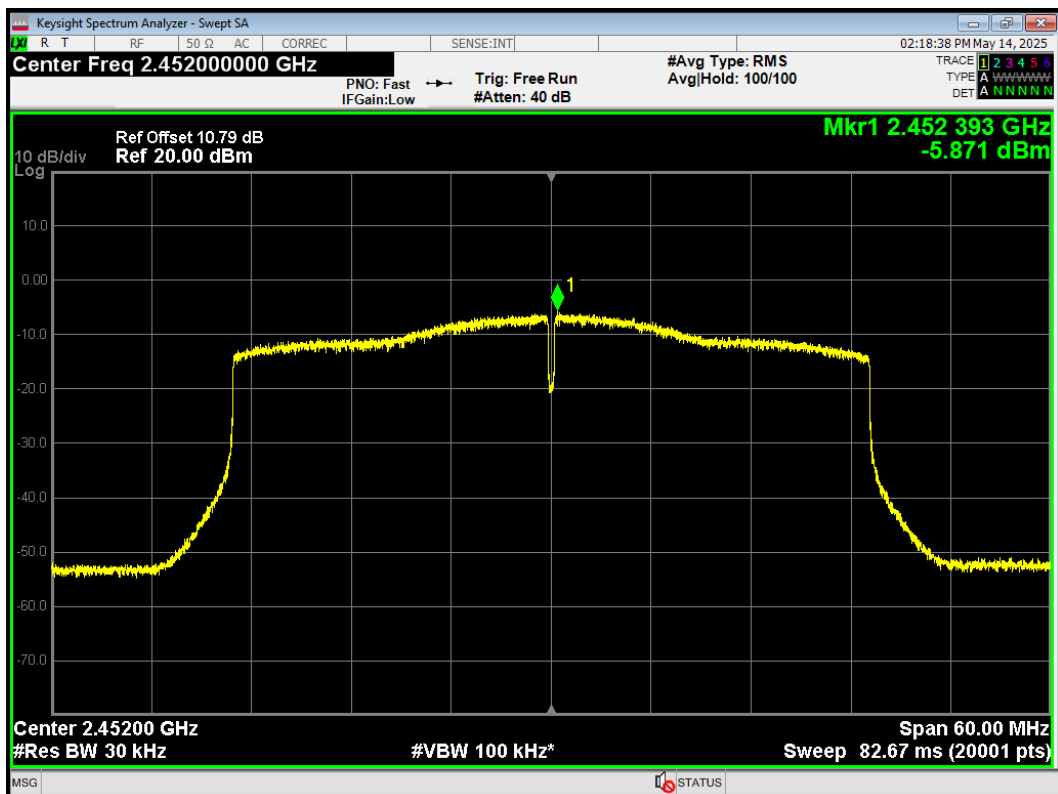
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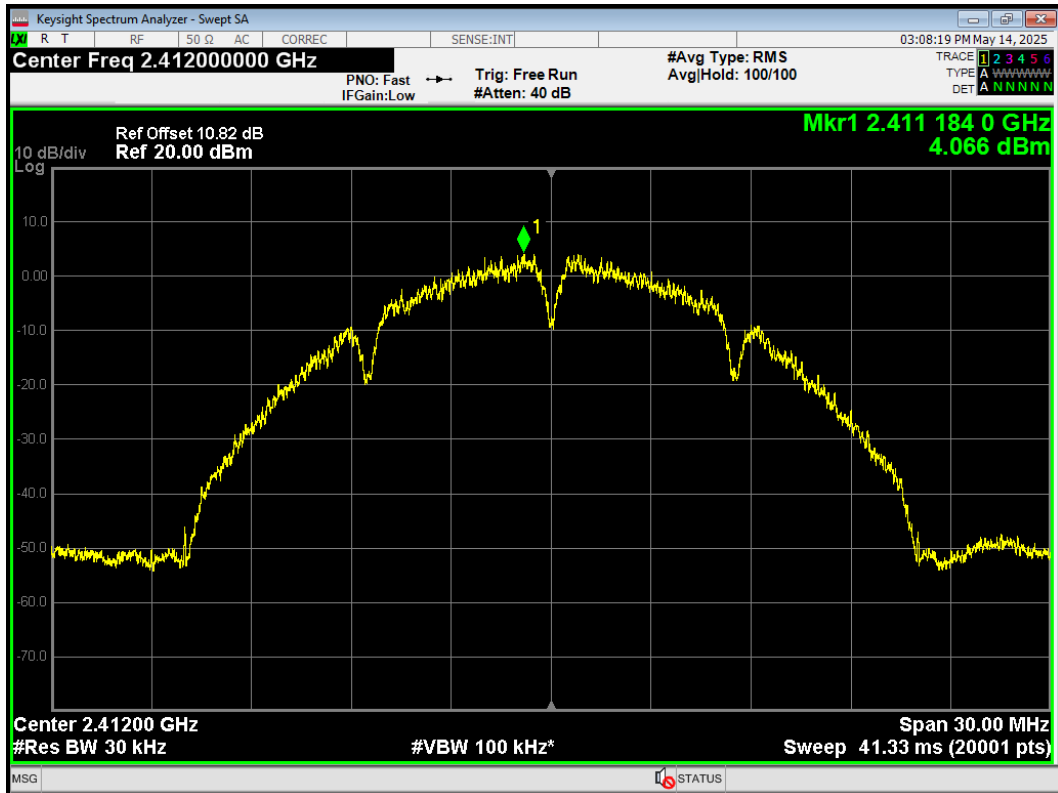
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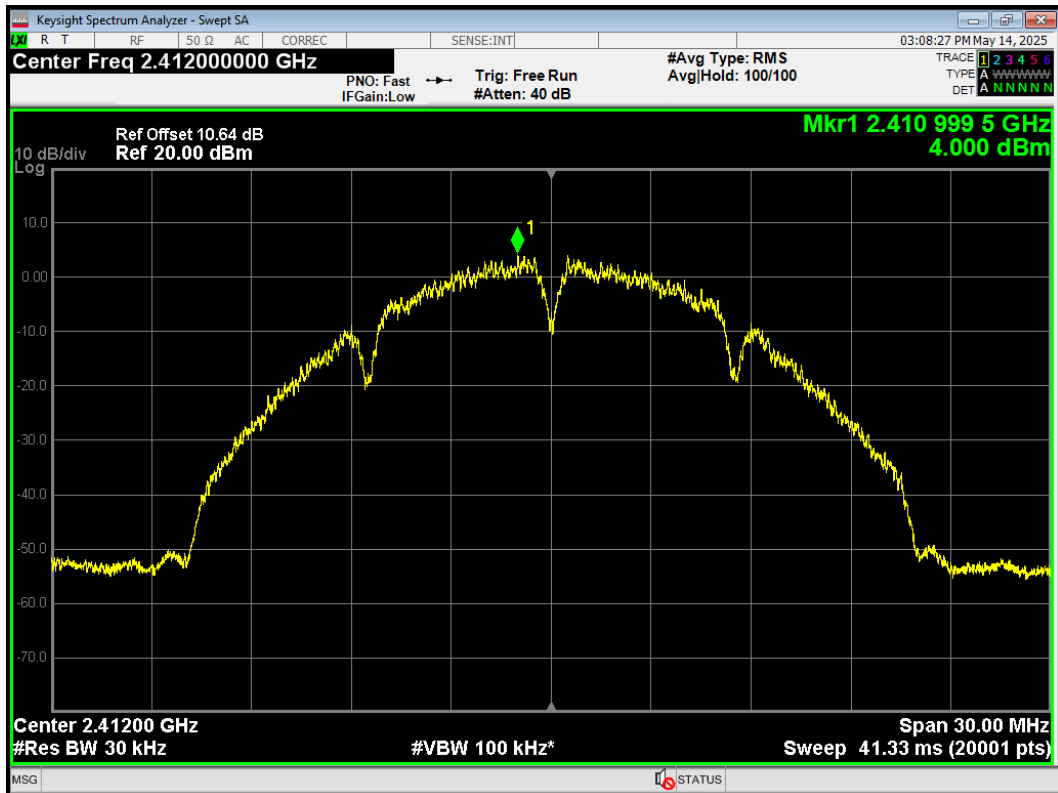
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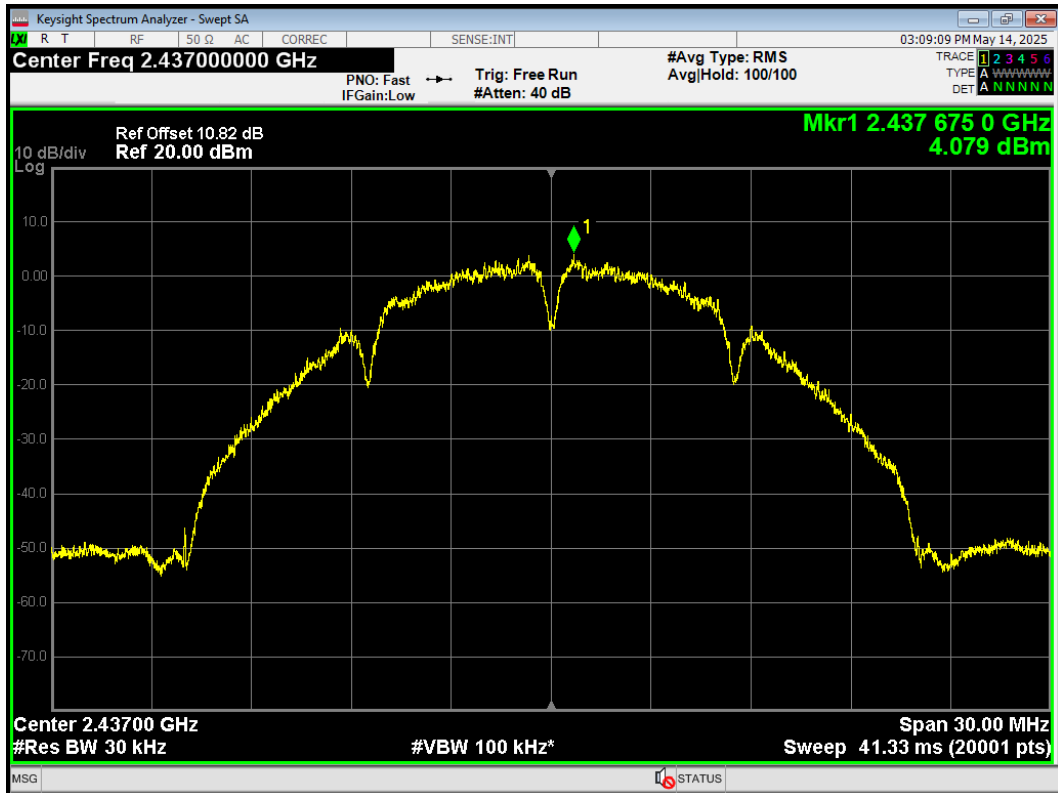
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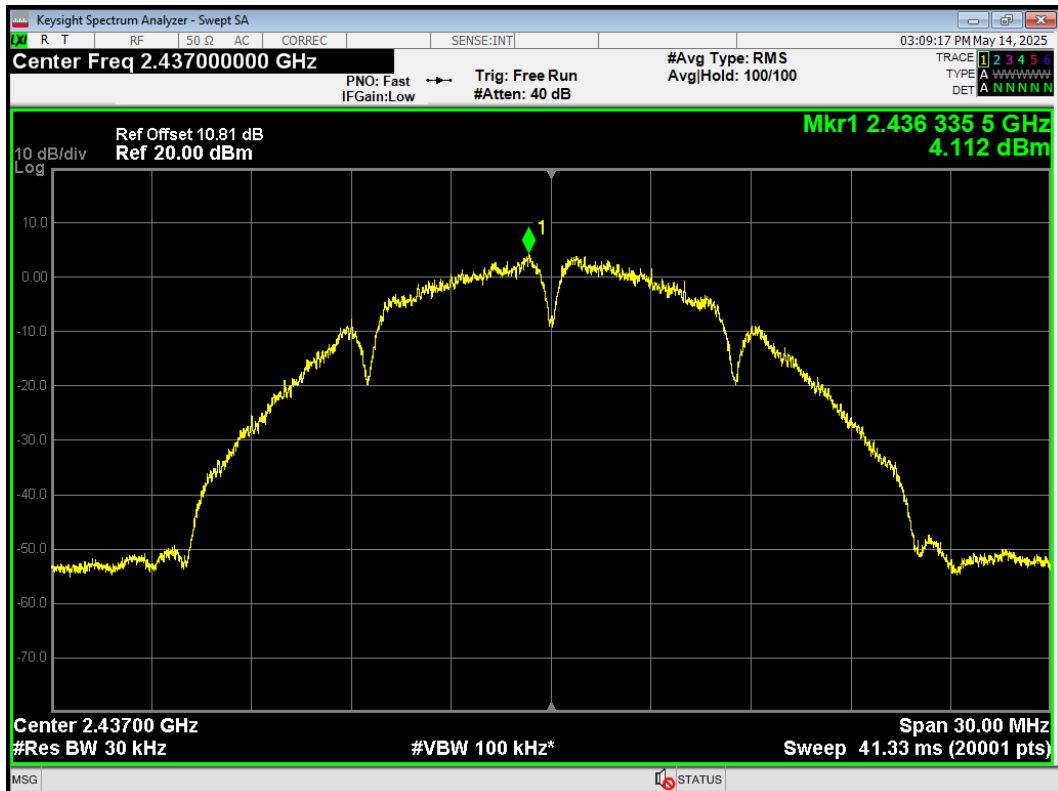
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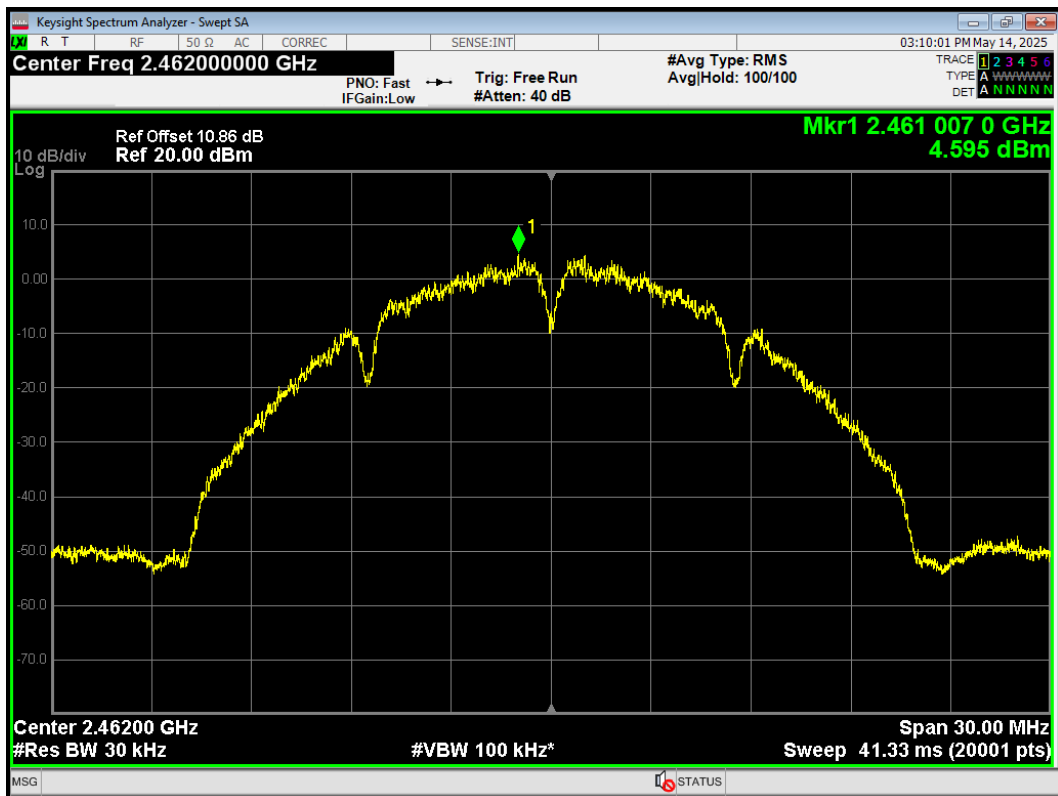
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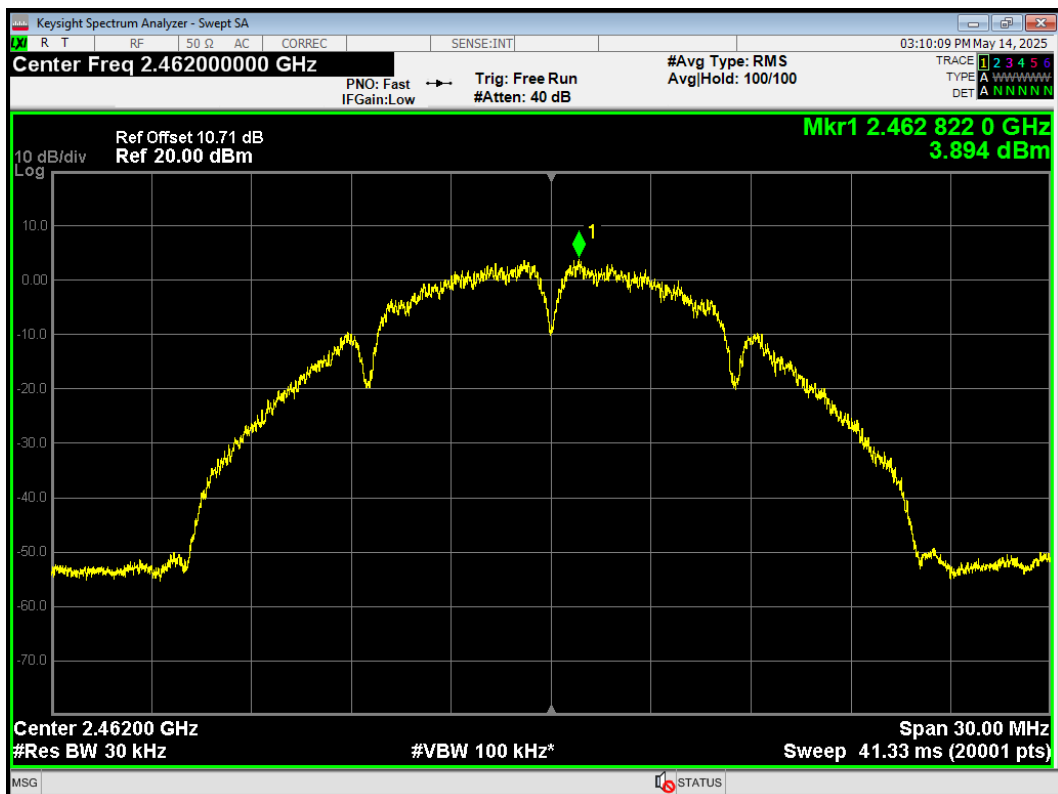
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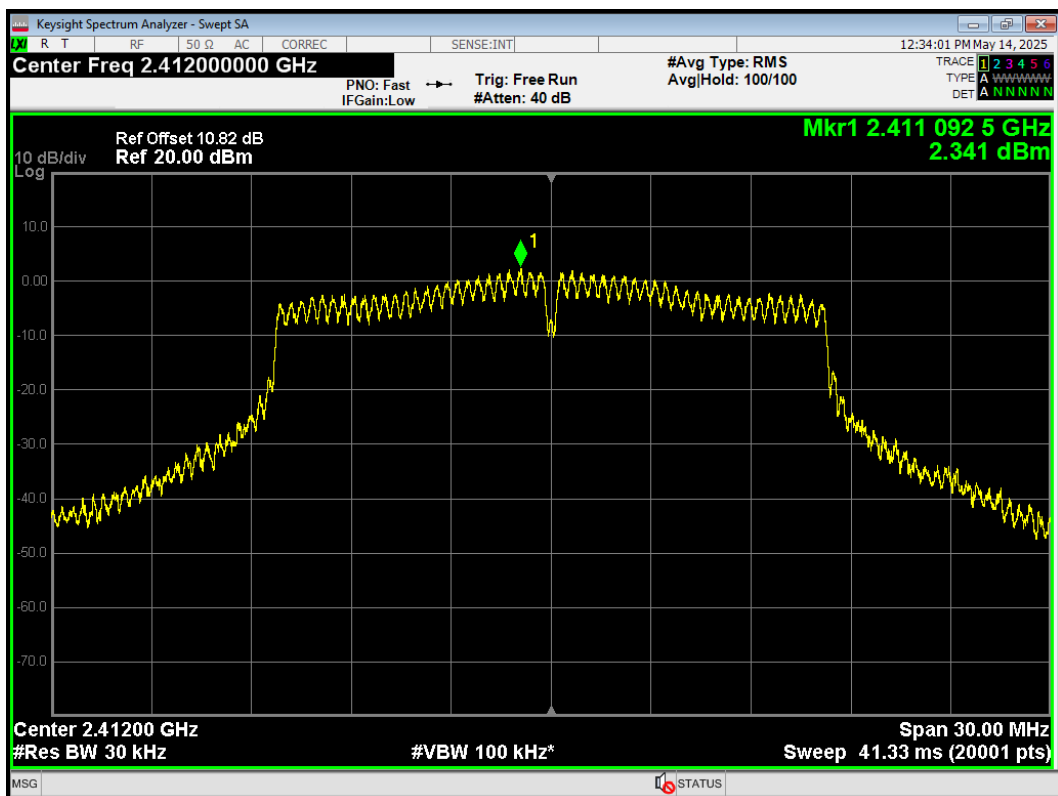
PSD 802.11b 2462MHz Ant1



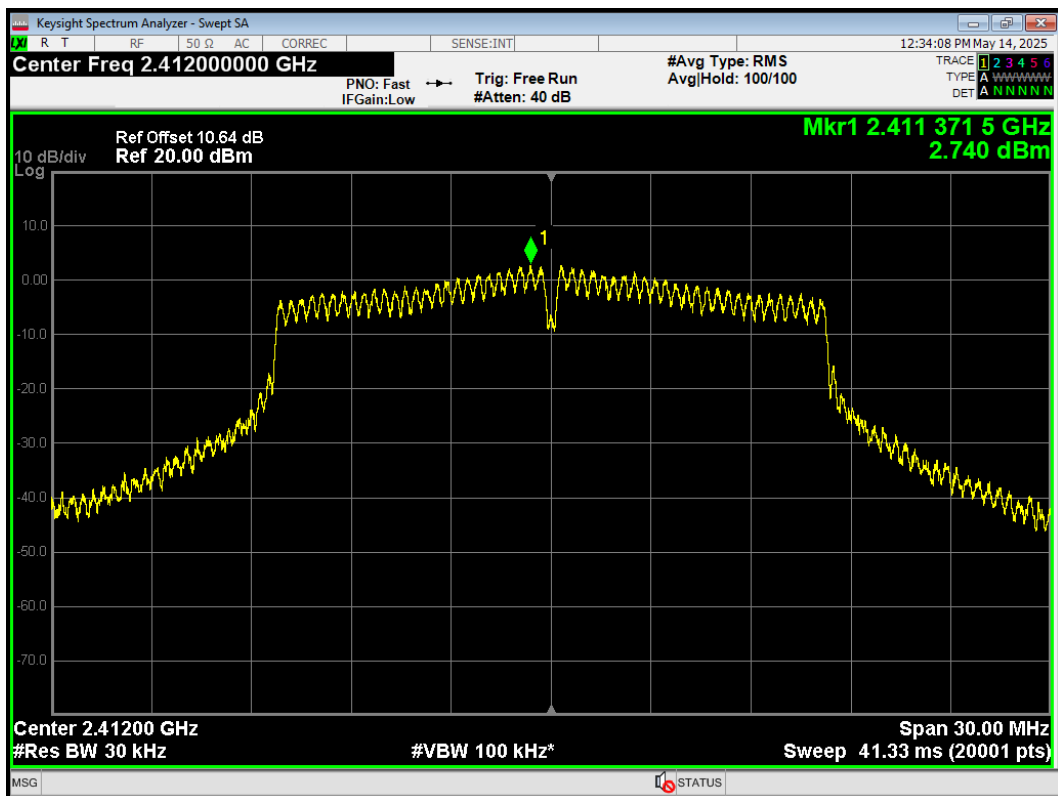
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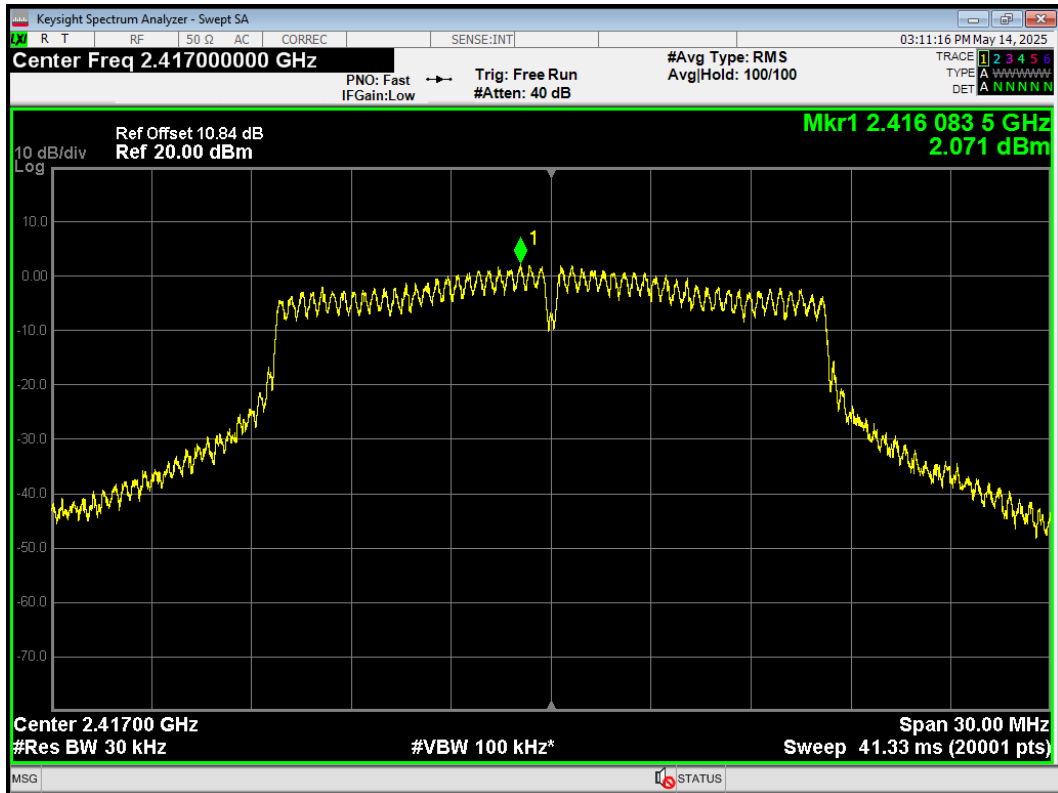
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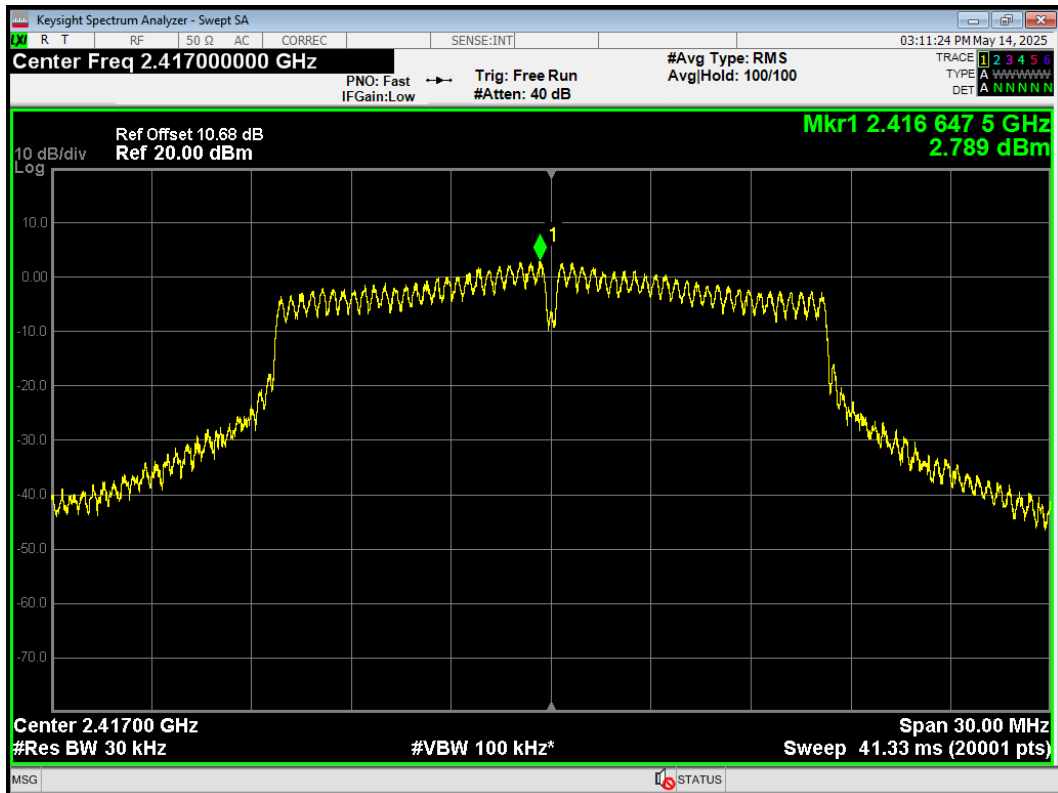
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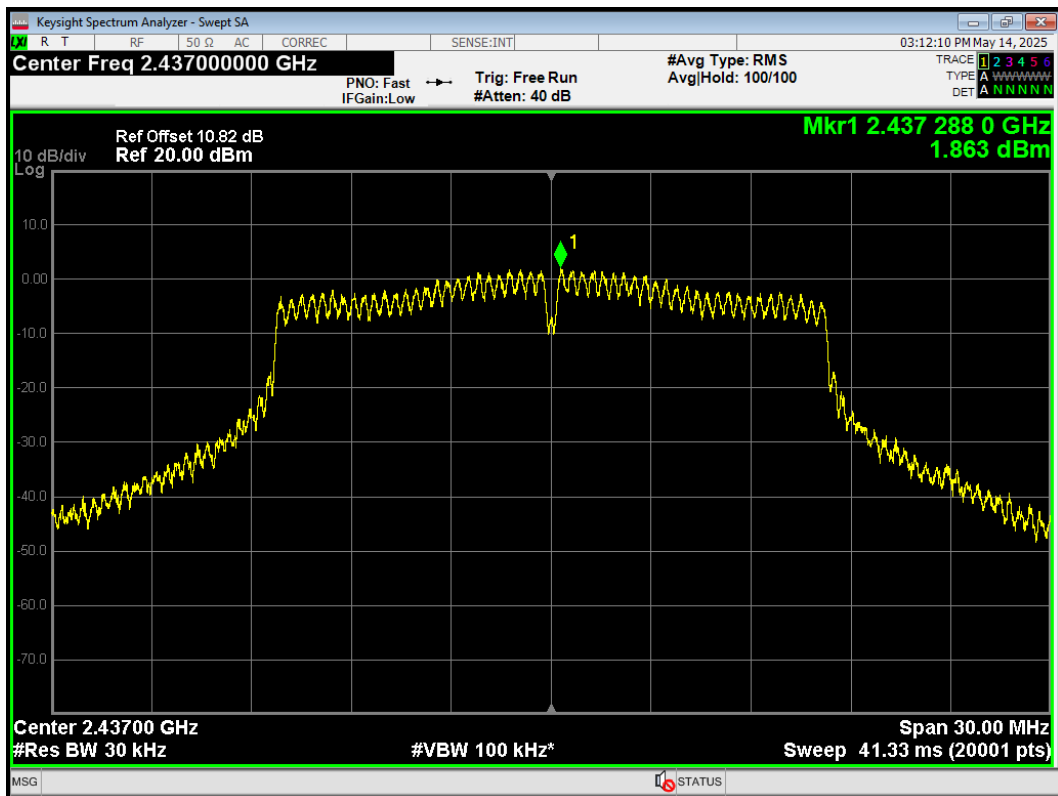
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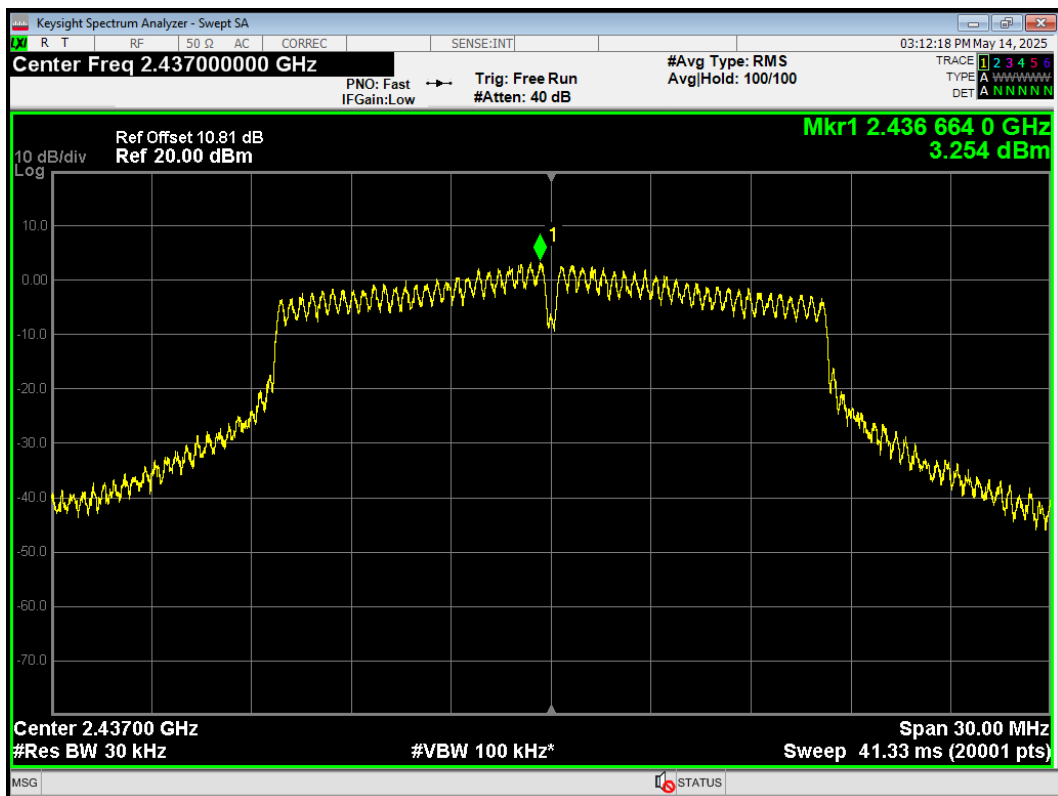
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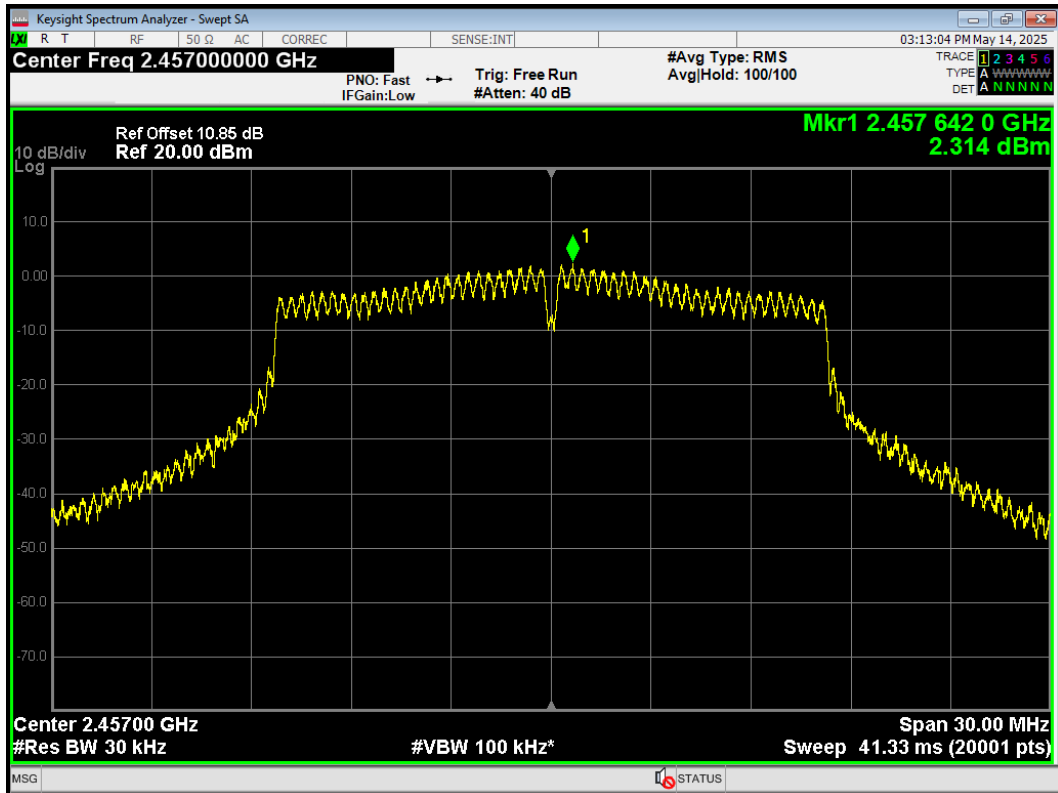
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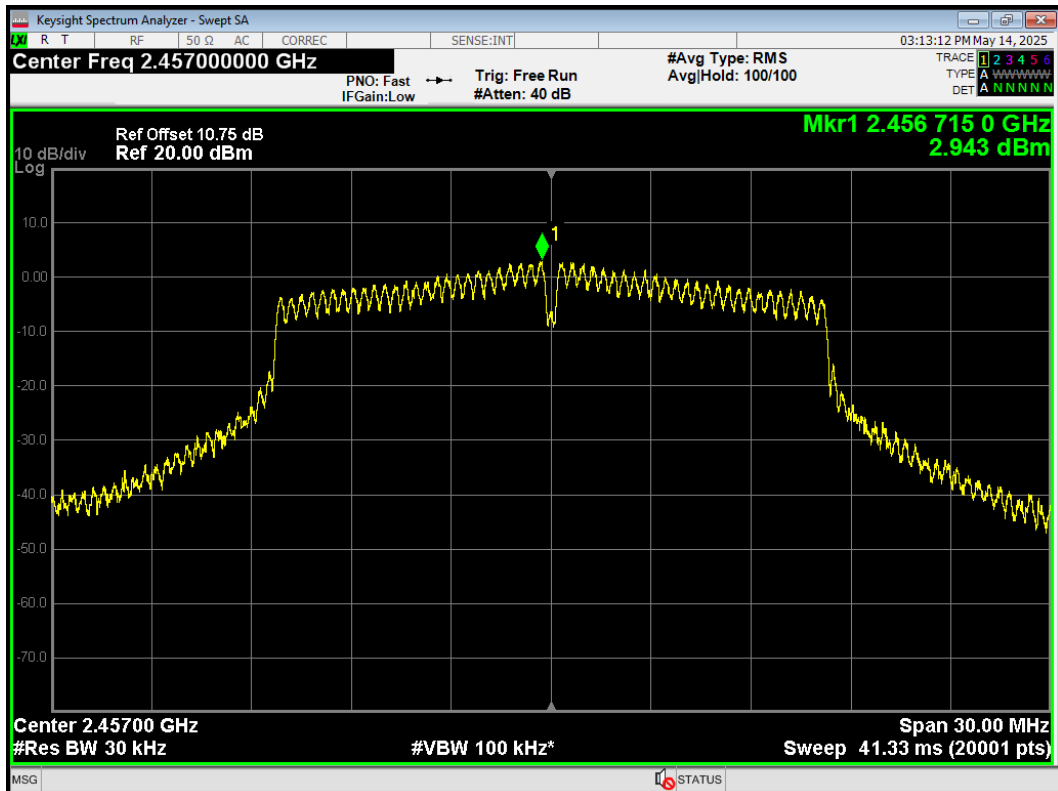
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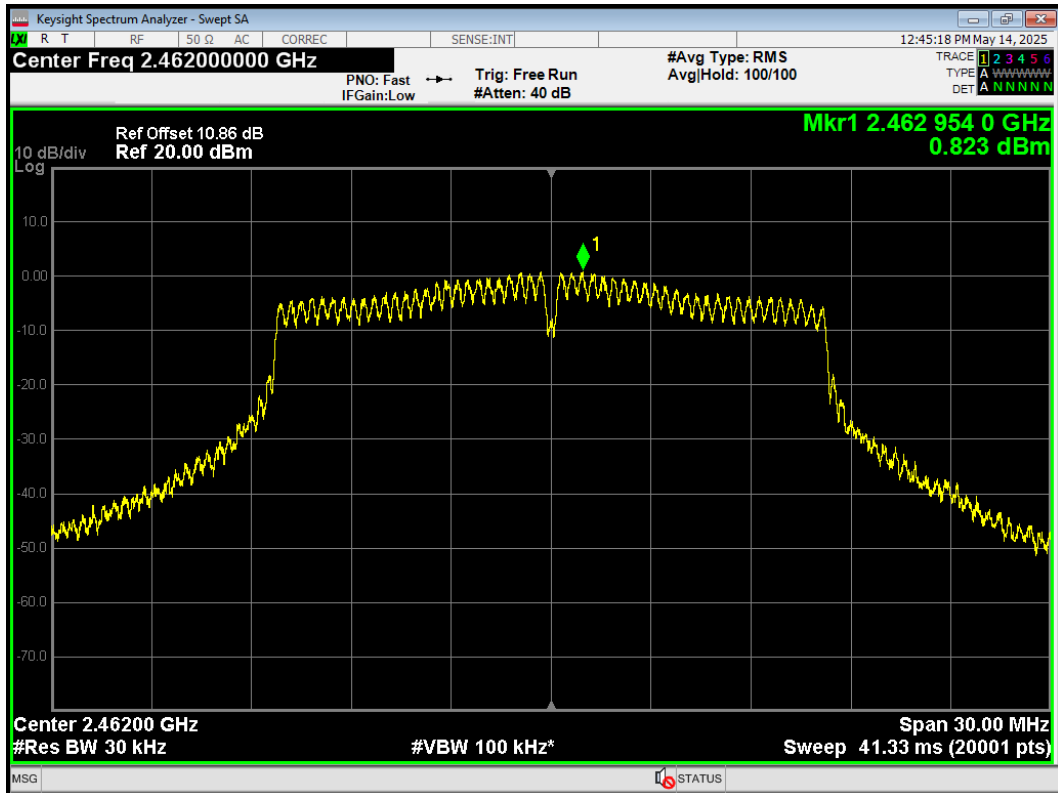
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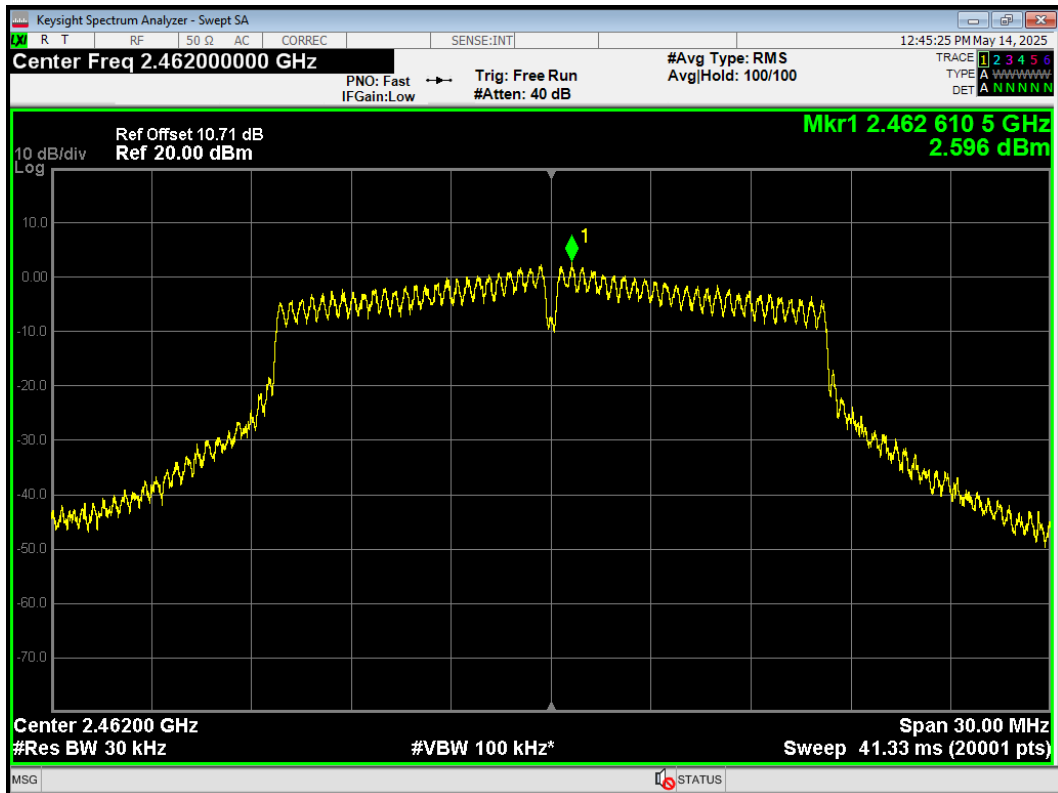
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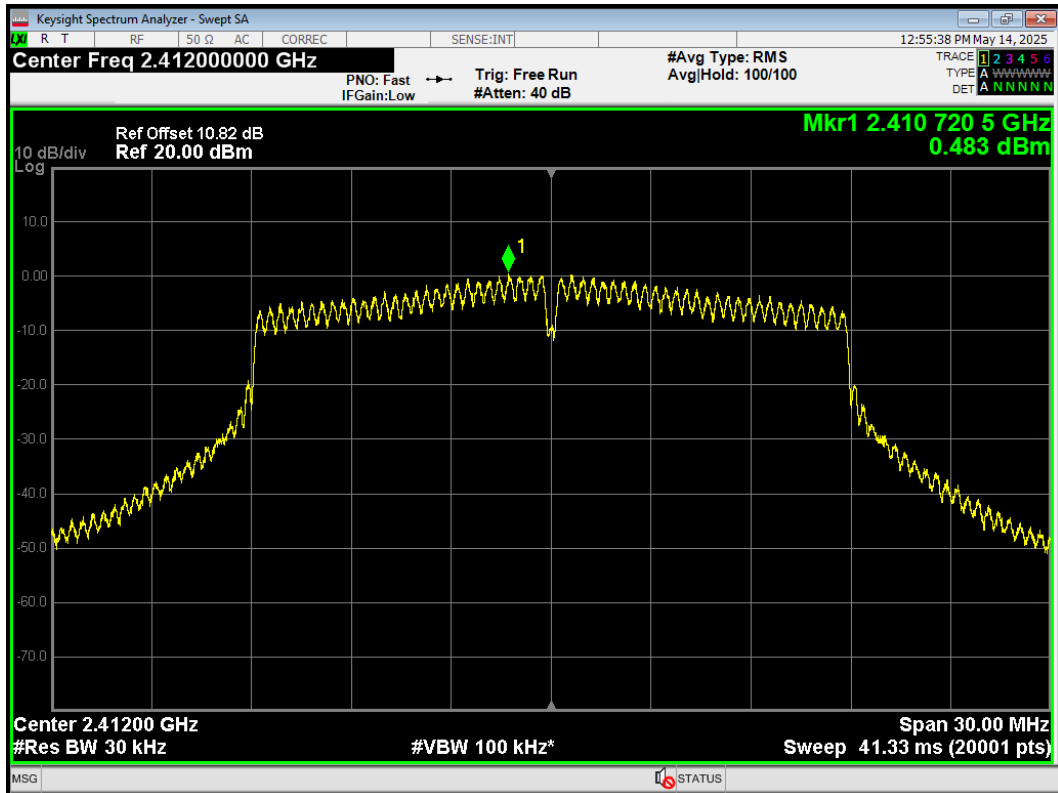
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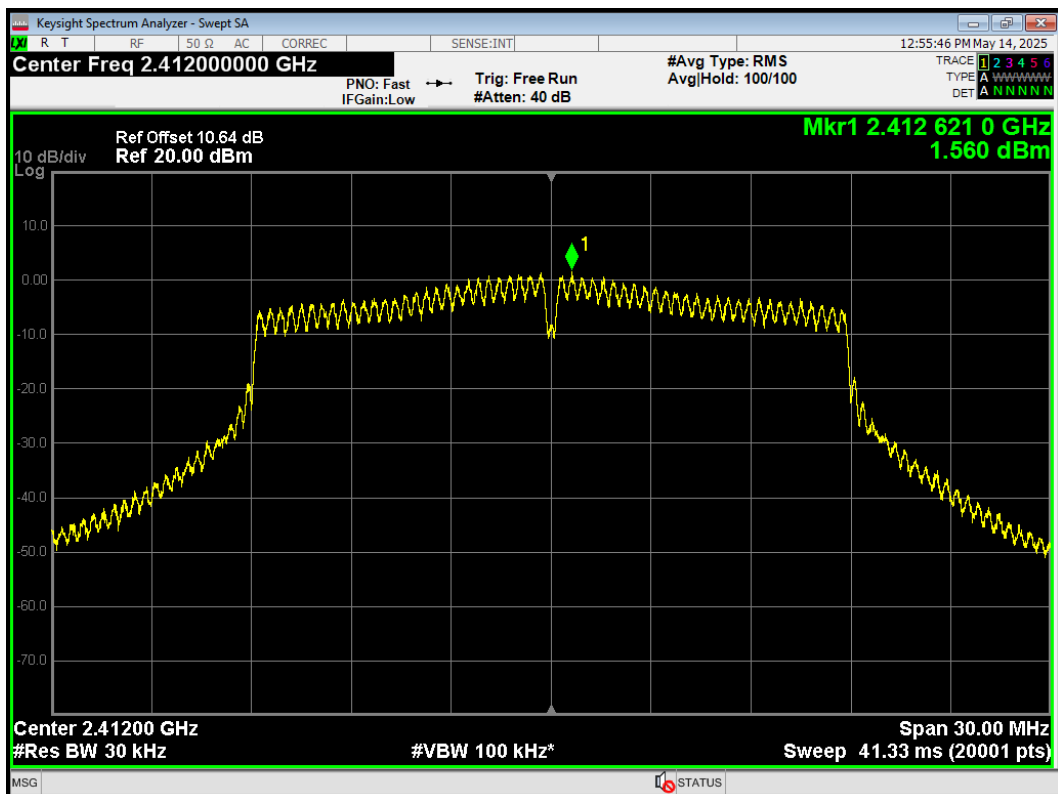
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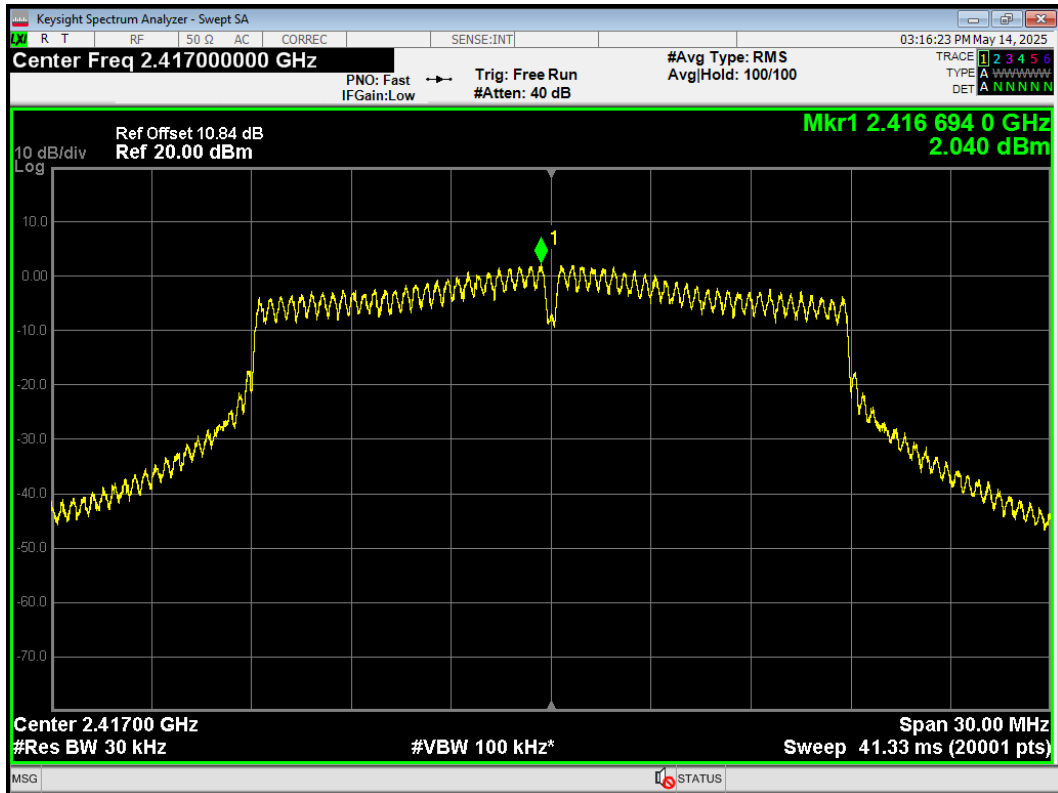
PSD 802.11n(HT20) 2412MHz Ant1



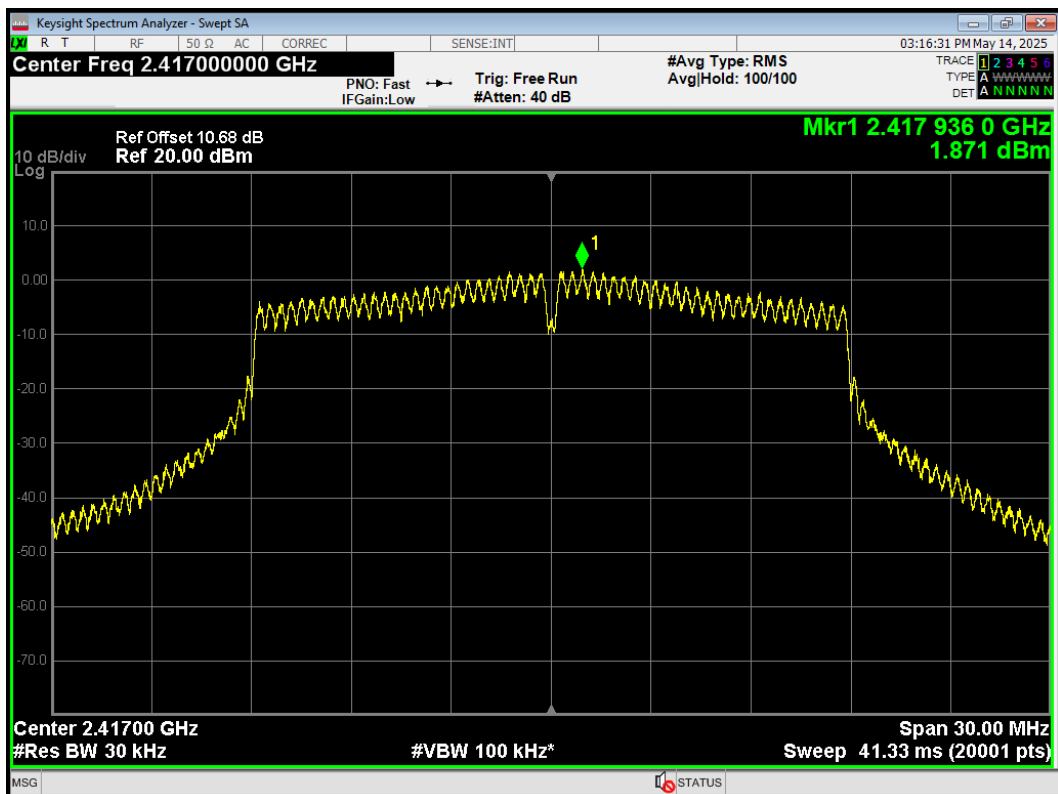
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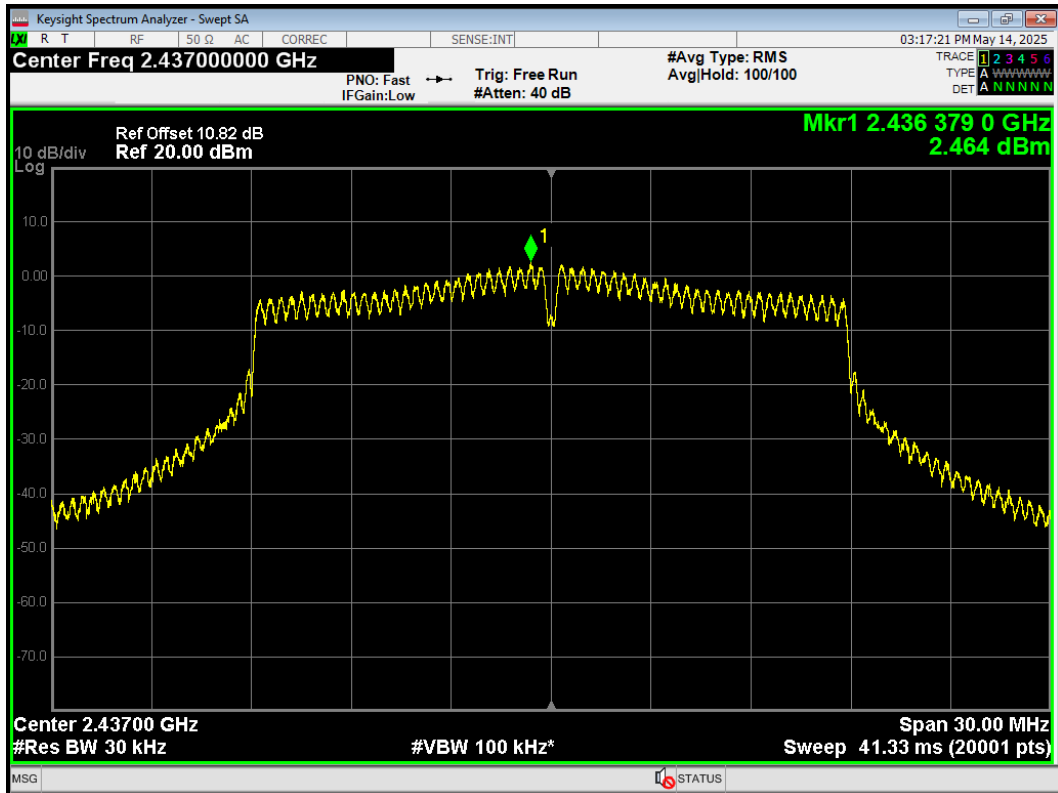
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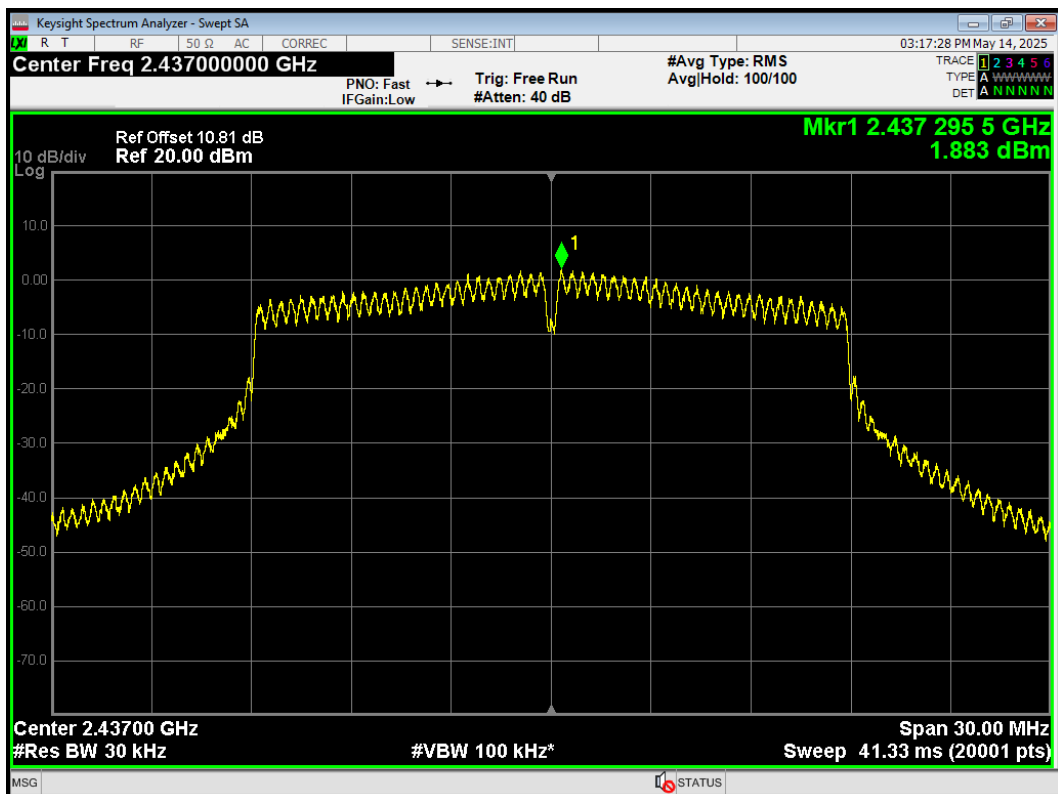
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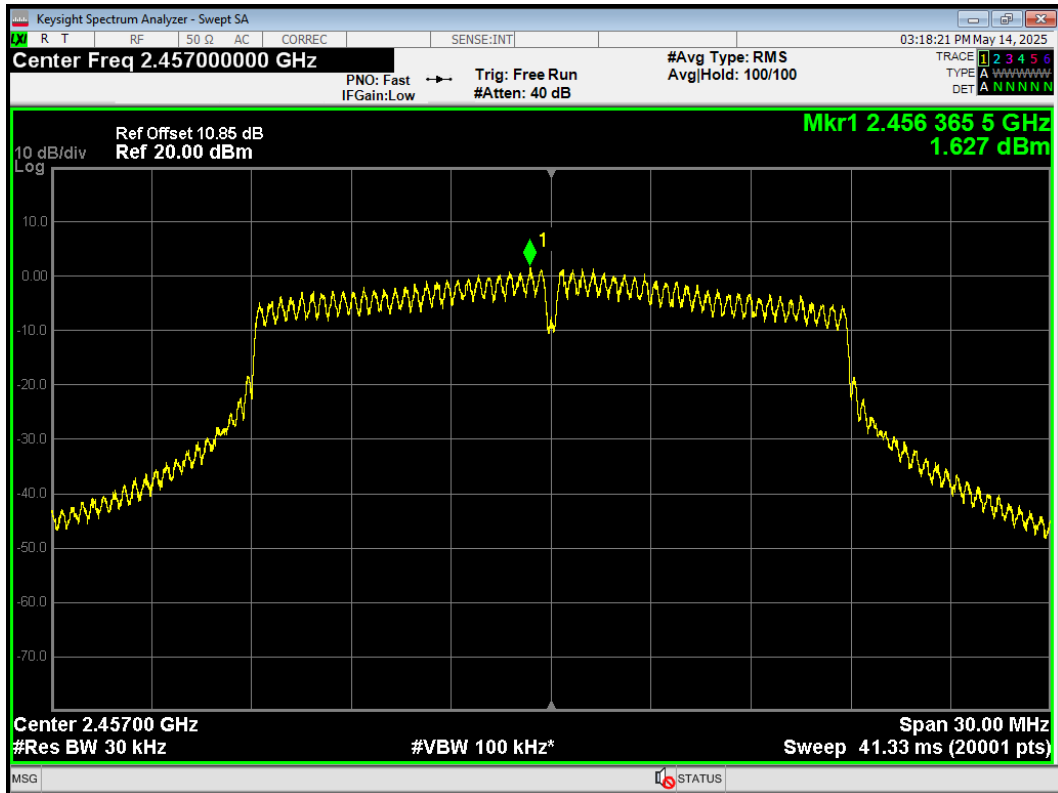
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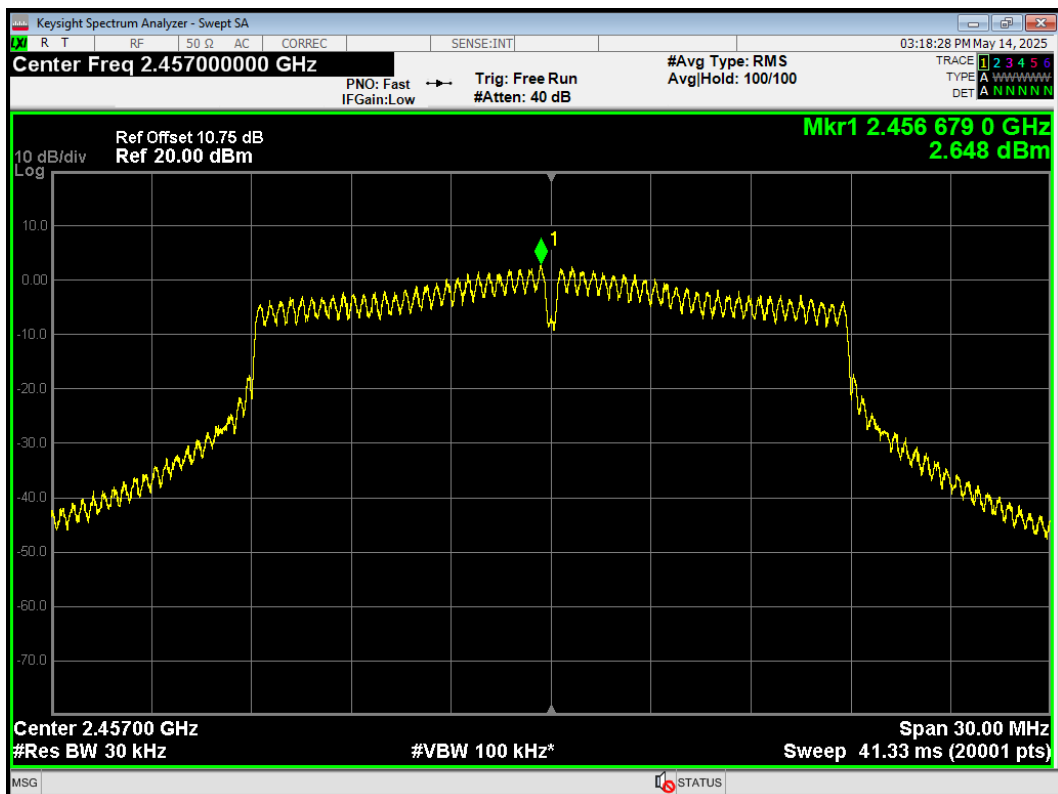
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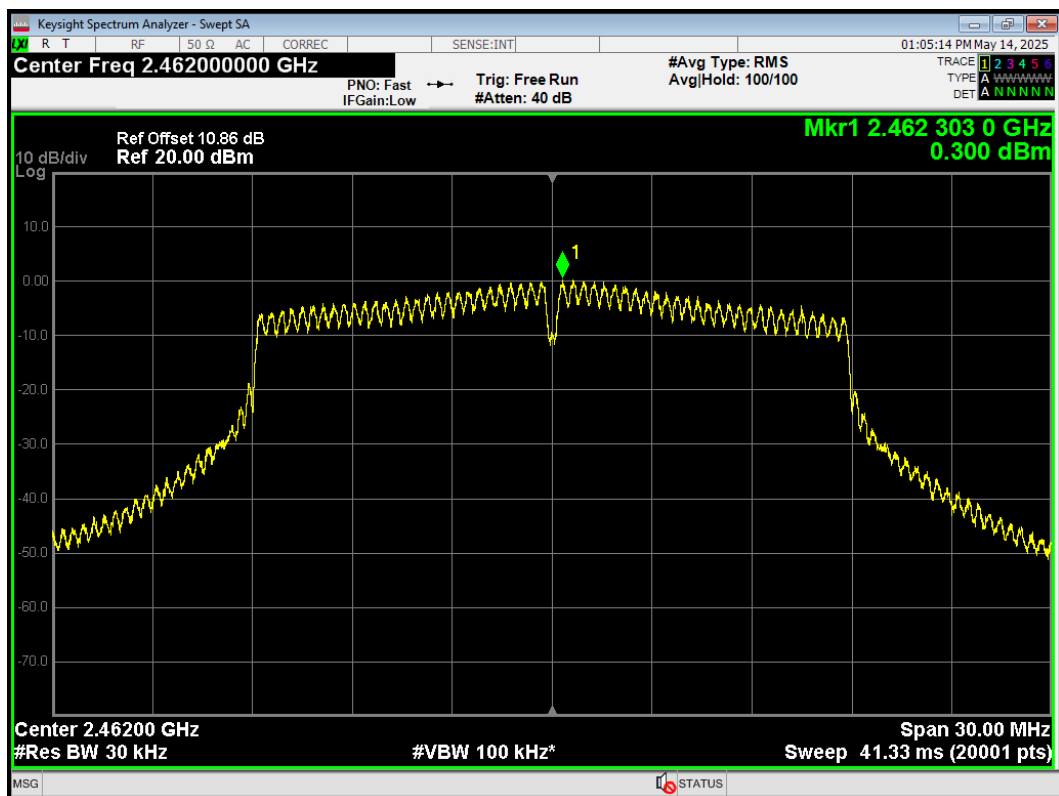
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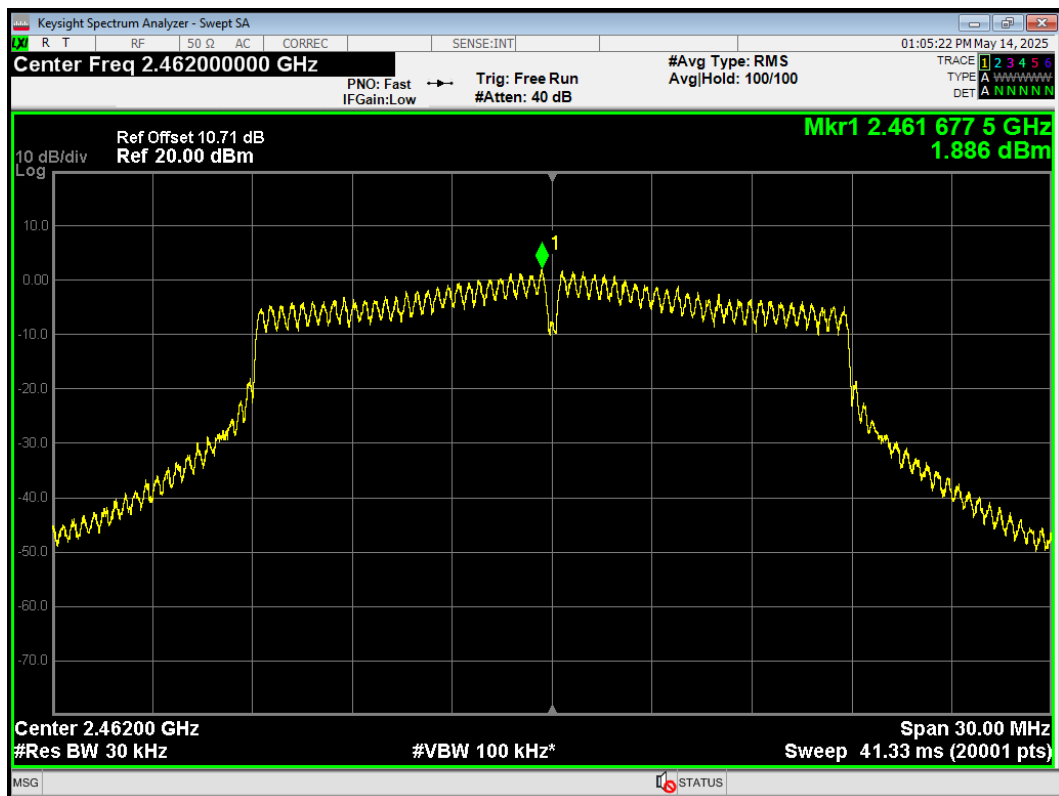
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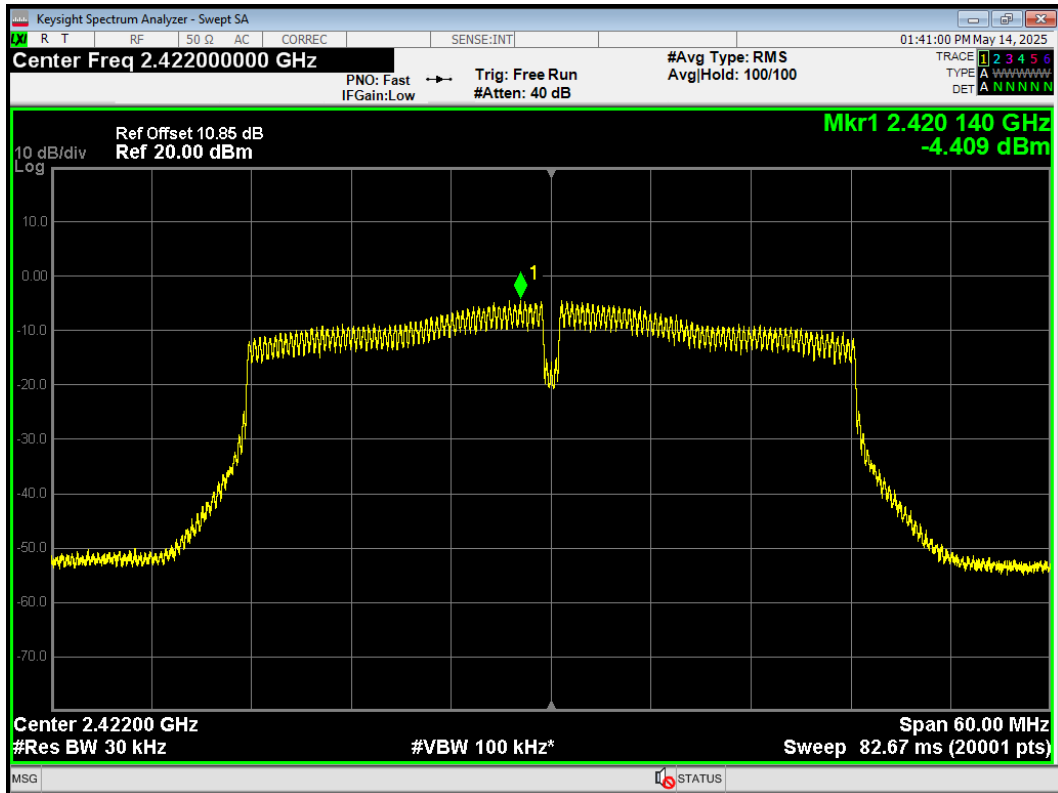
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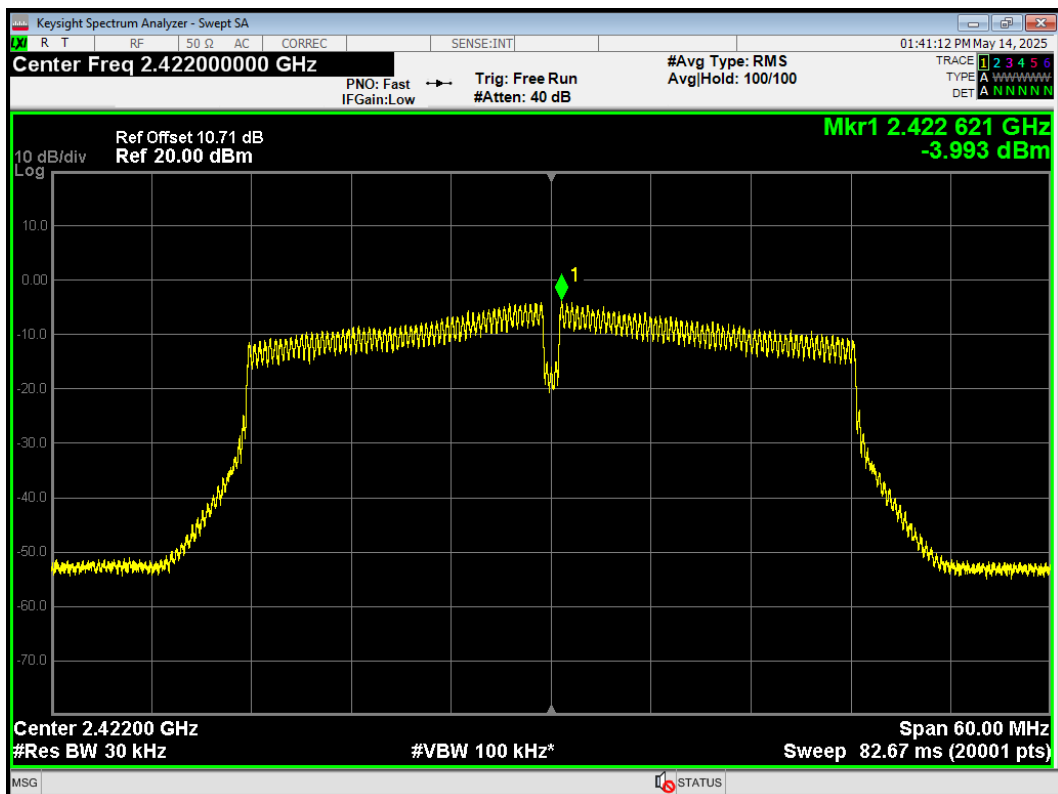
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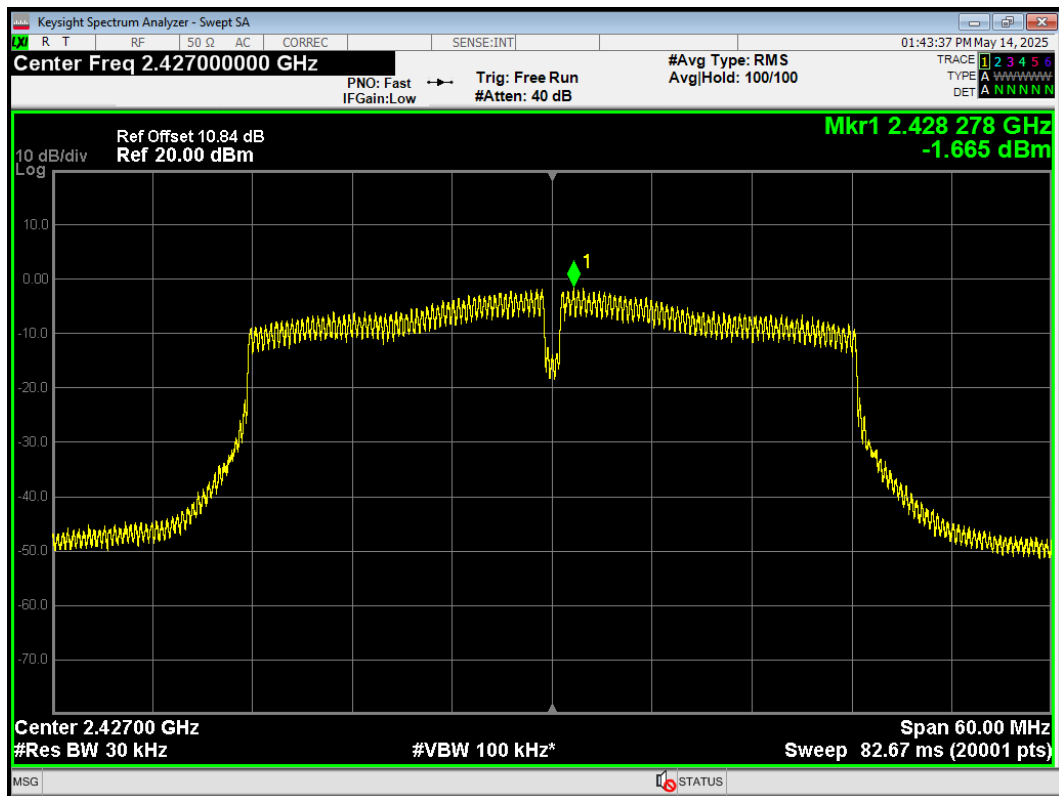
PSD 802.11n(HT40) 2422MHz Ant1



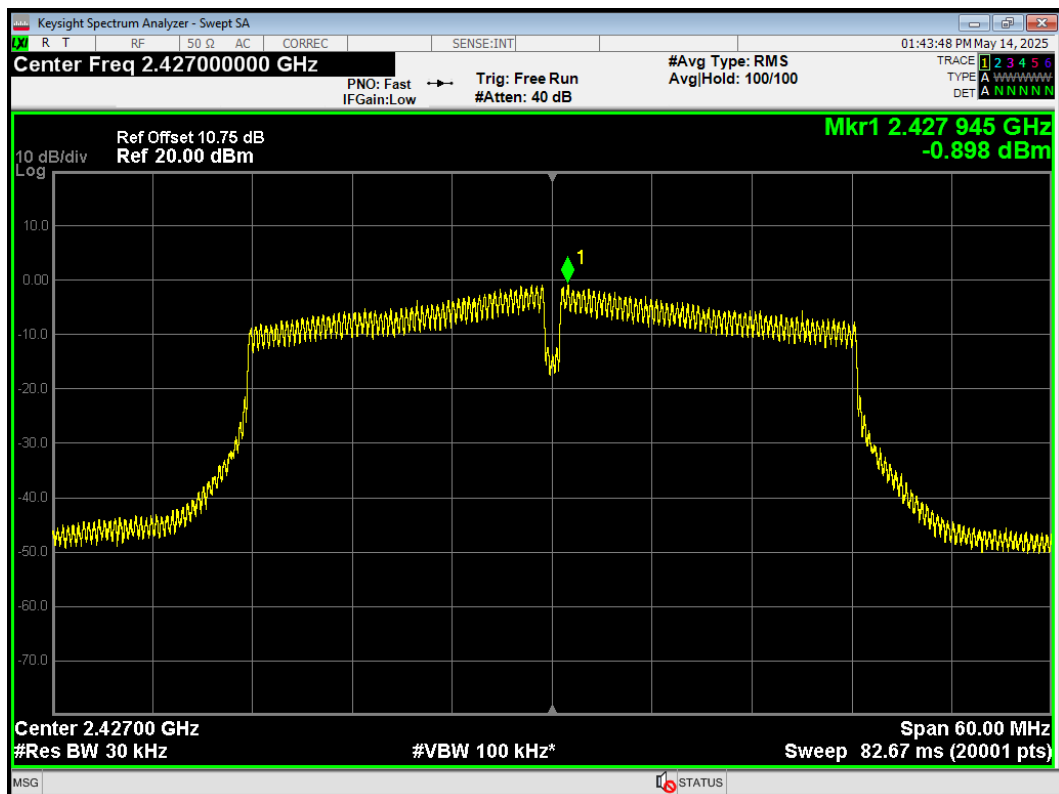
PSD 802.11n(HT40) 2422MHz Ant2



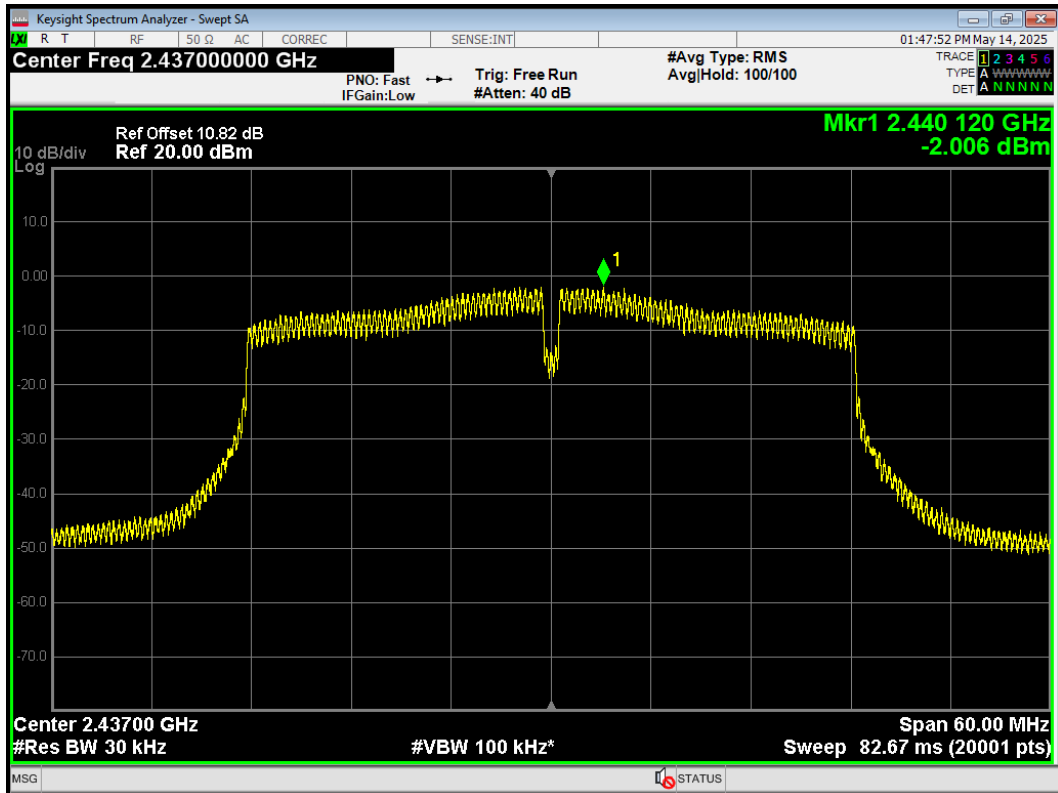
PSD 802.11n(HT40) 2427MHz Ant1



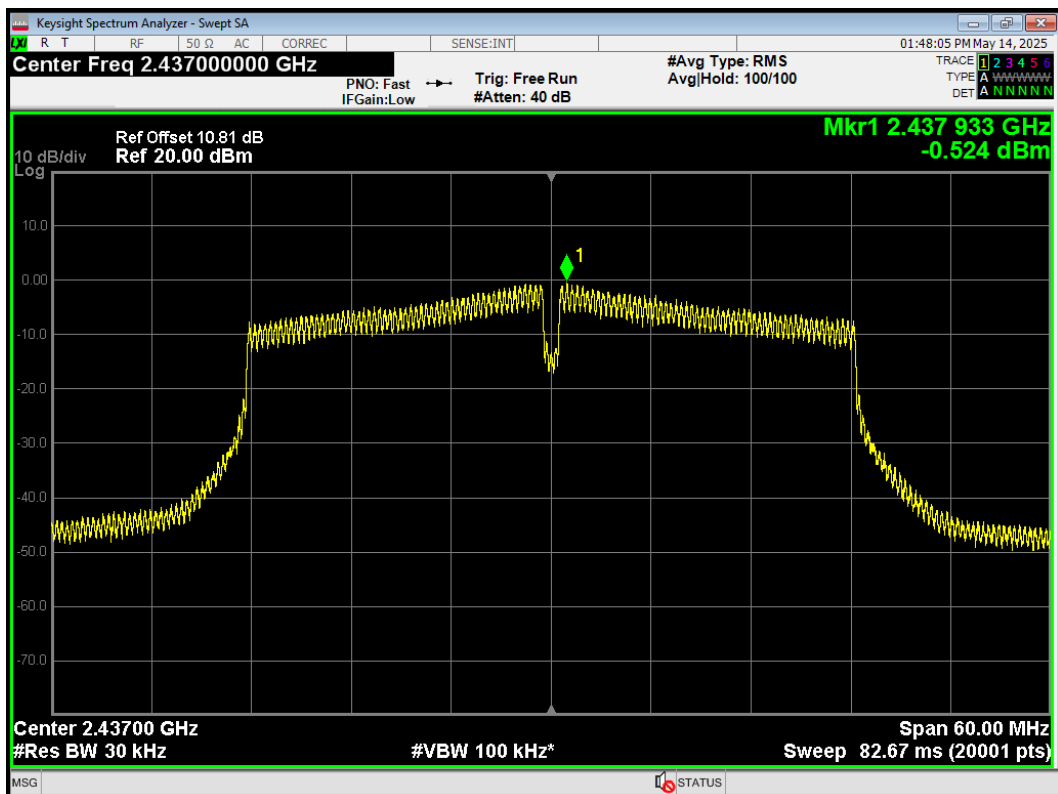
PSD 802.11n(HT40) 2427MHz Ant2



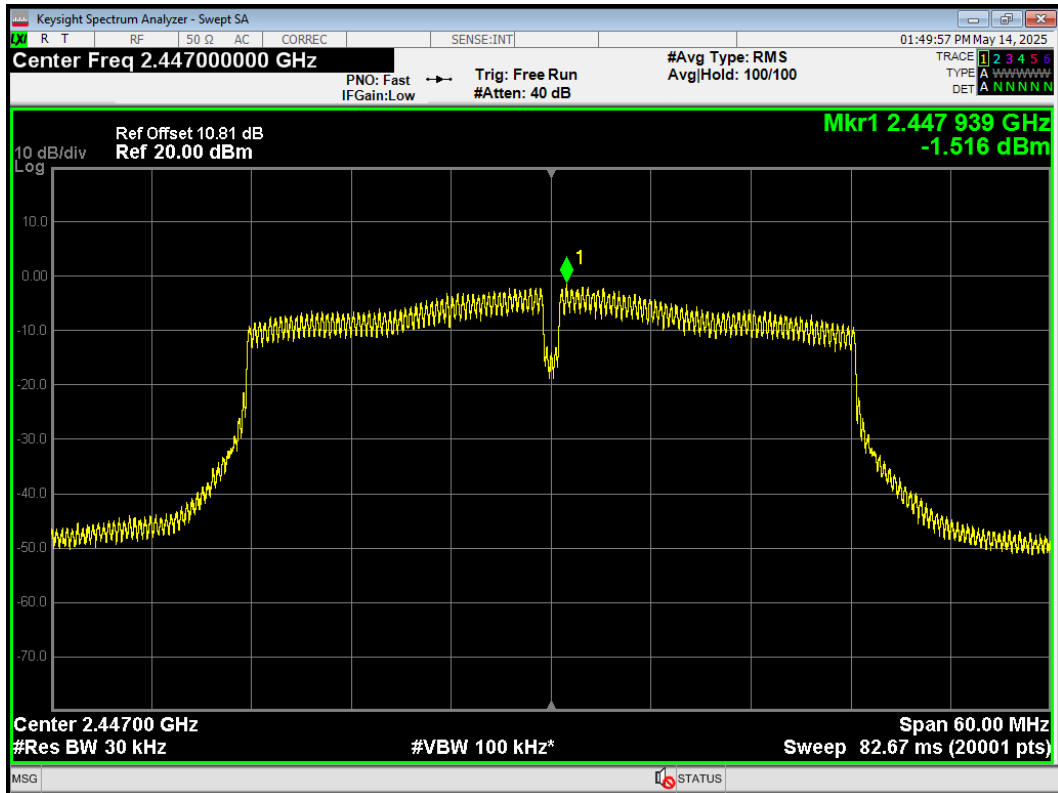
PSD 802.11n(HT40) 2437MHz Ant1



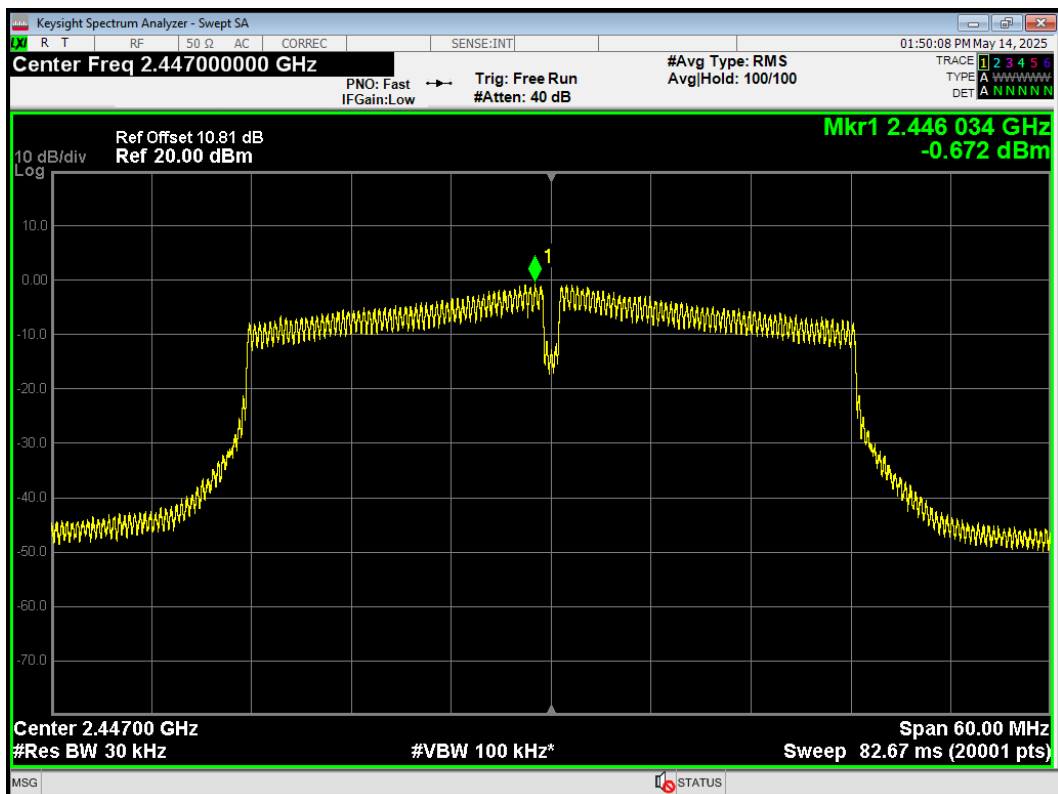
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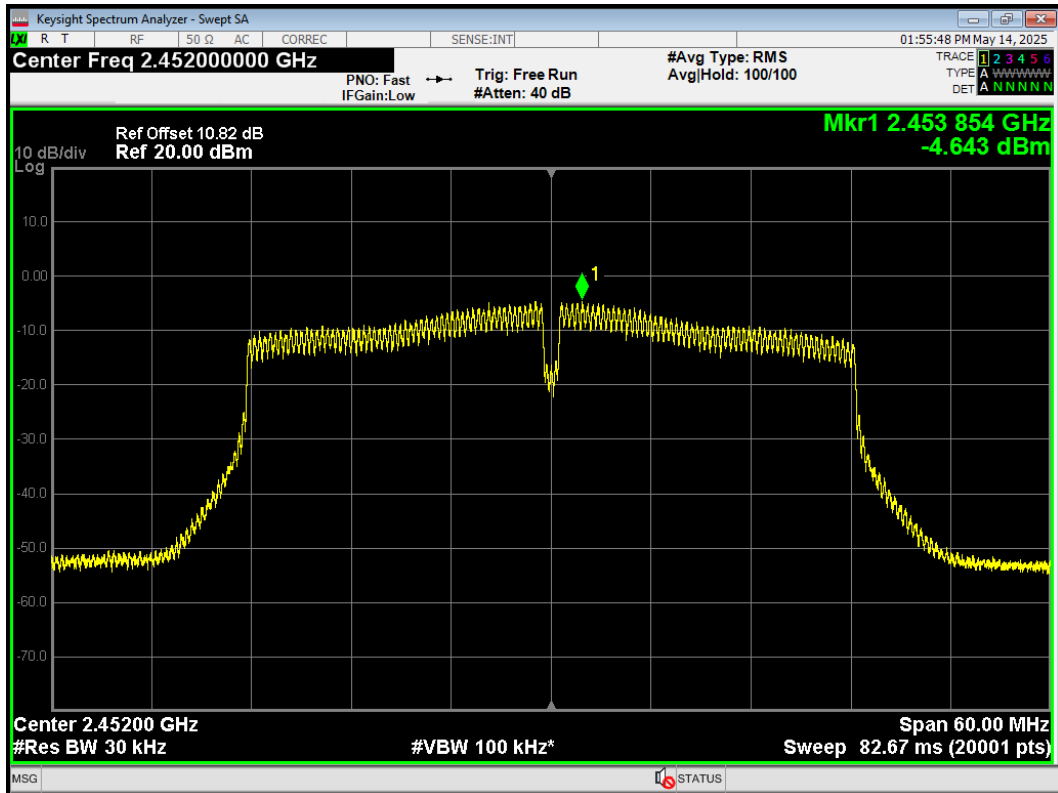
PSD 802.11n(HT40) 2447MHz Ant1



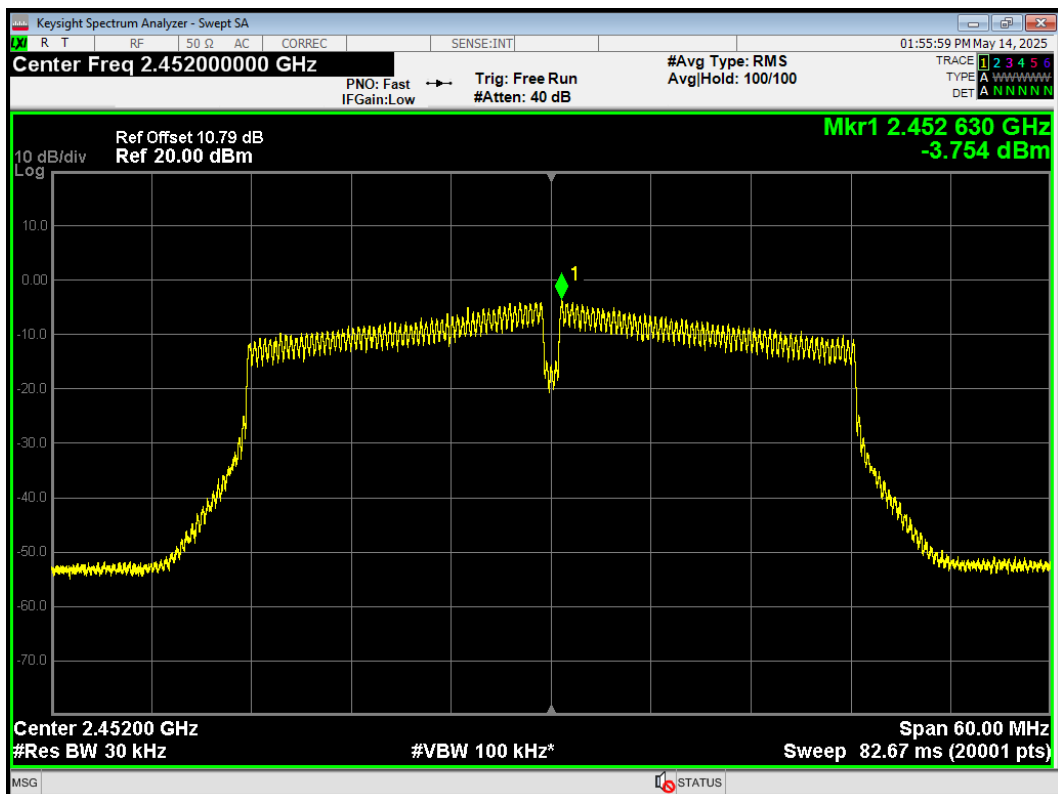
PSD 802.11n(HT40) 2447MHz Ant2



PSD 802.11n(HT40) 2452MHz Ant1



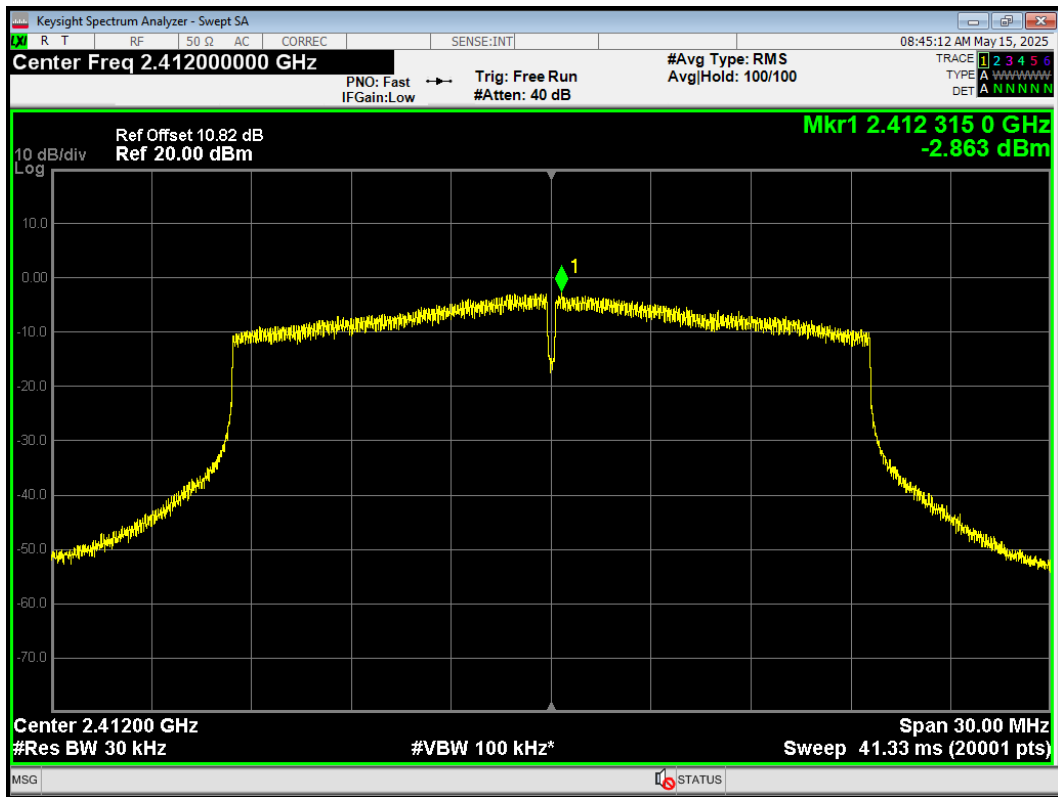
PSD 802.11n(HT40) 2452MHz Ant2



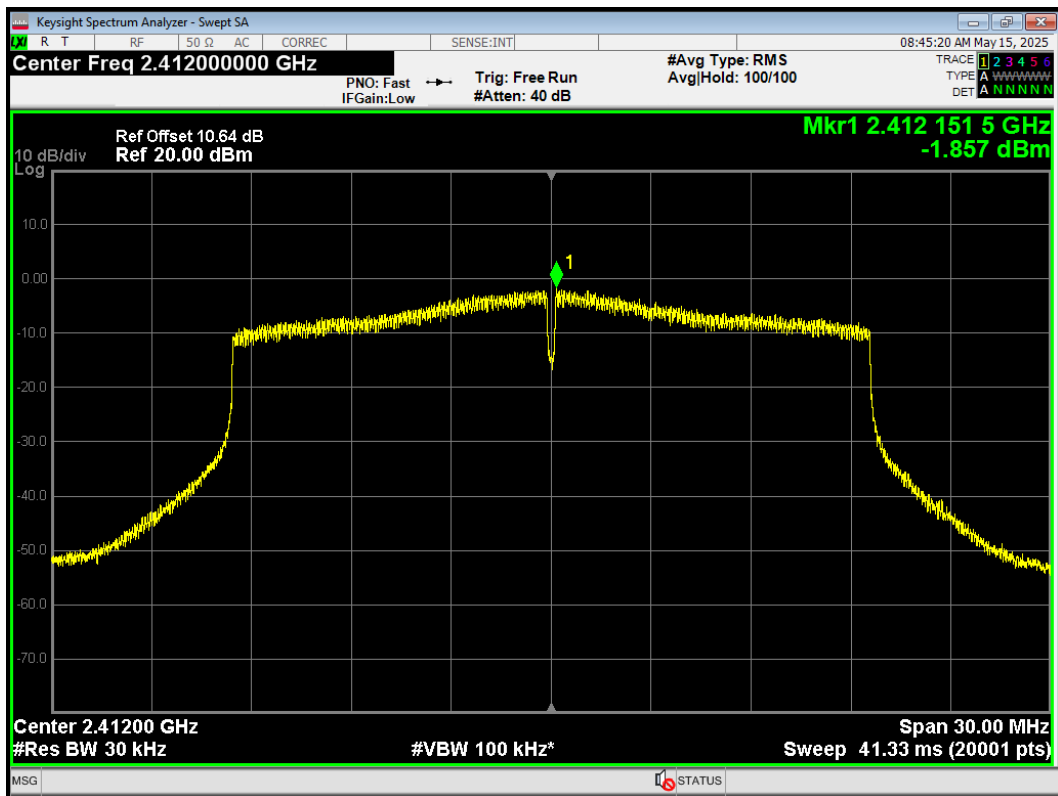
RU

MIMO

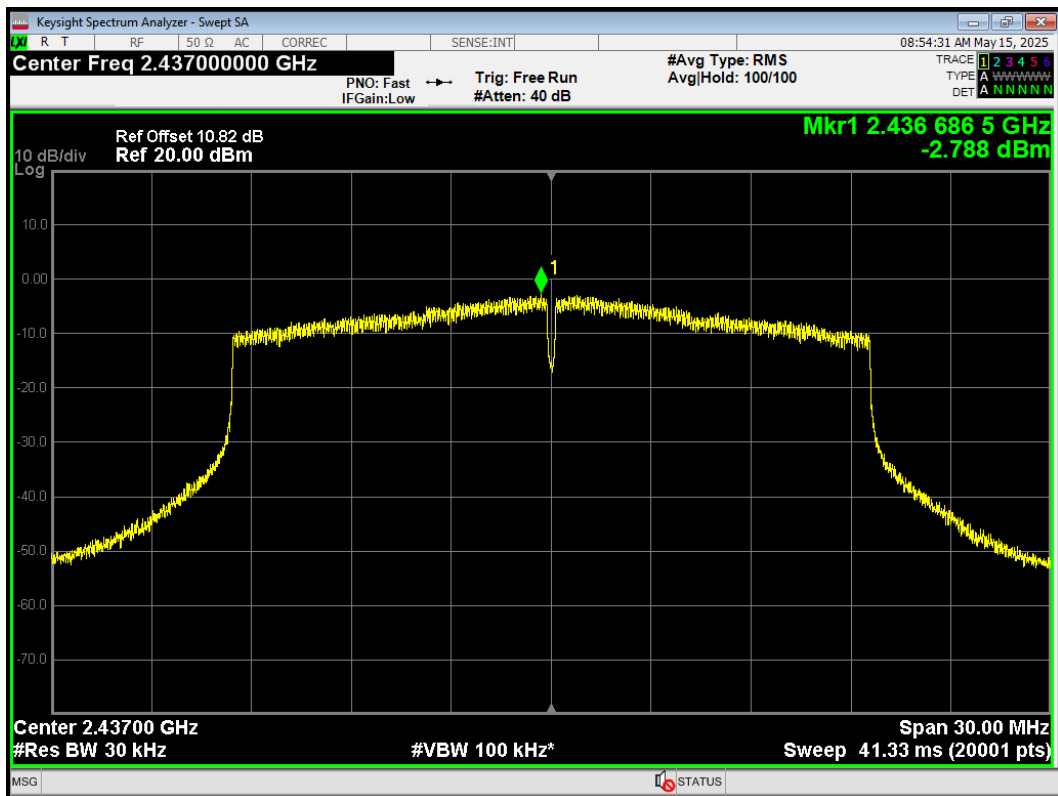
PSD 802.11ax HE20 242-Tones 2412MHz Ant1



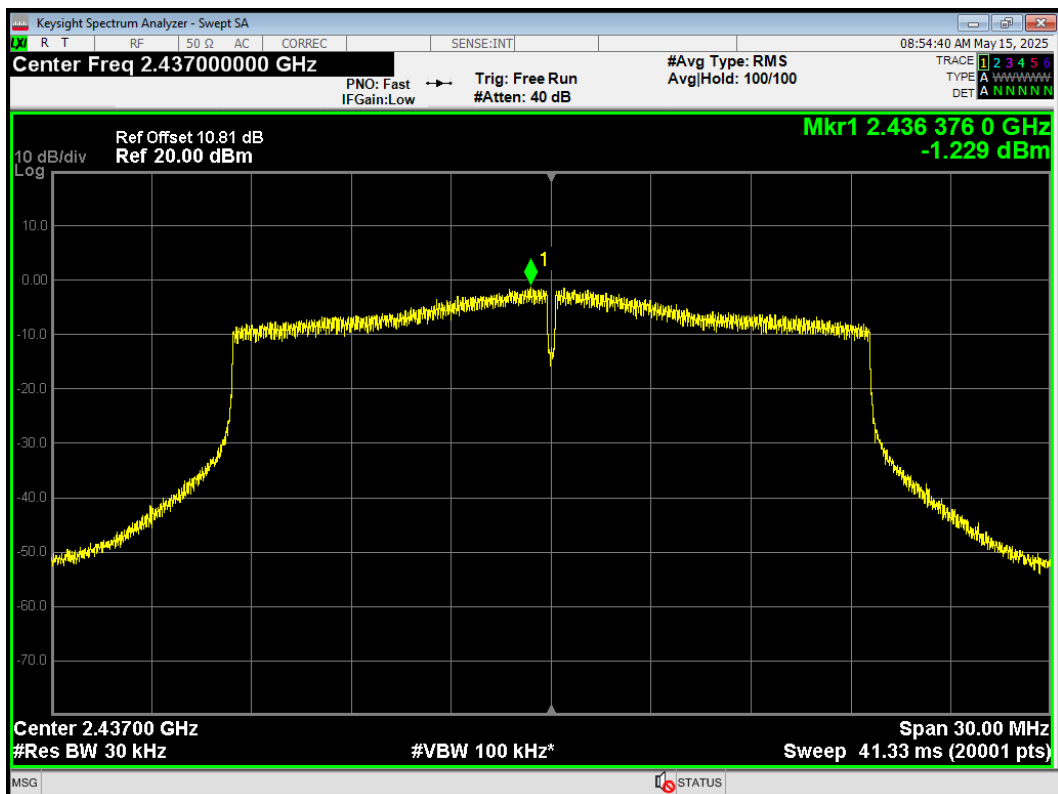
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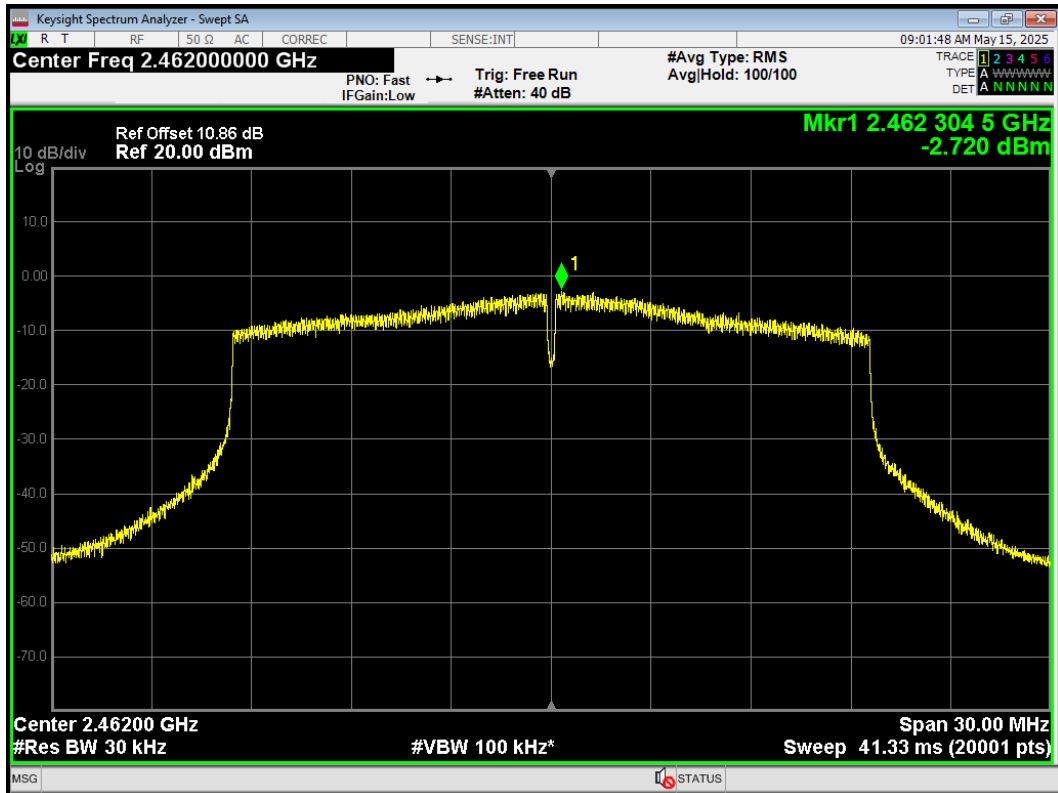
PSD 802.11ax HE20 242-Tones 2437MHz Ant1



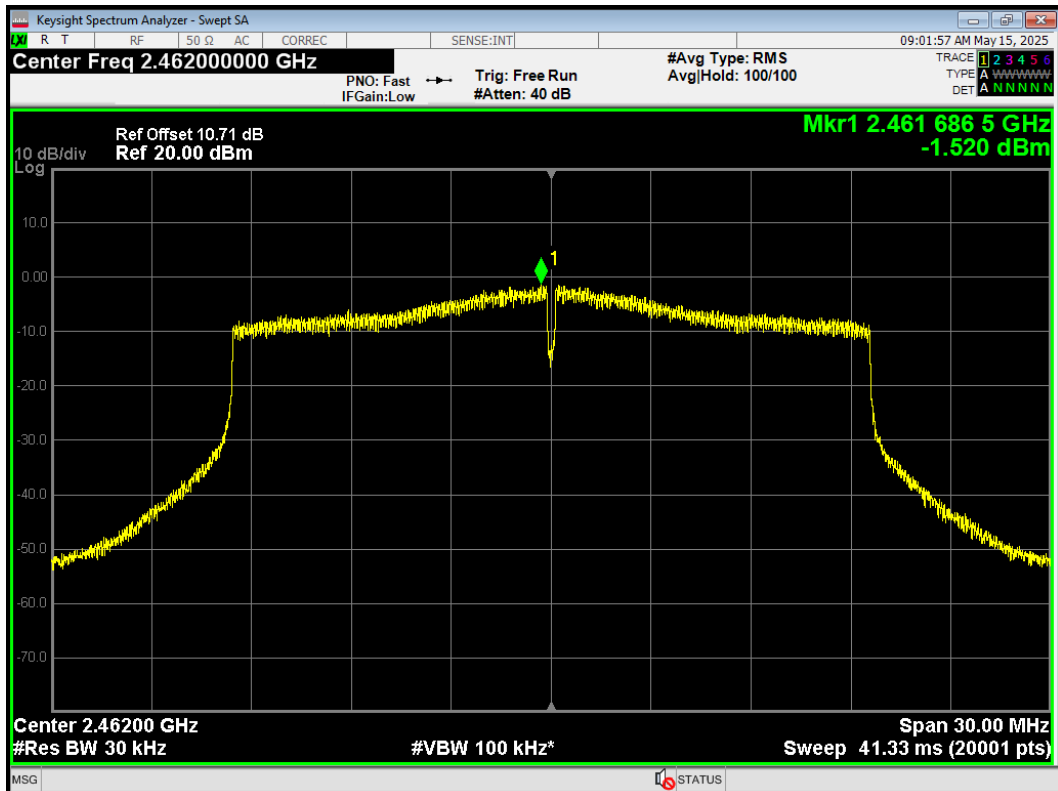
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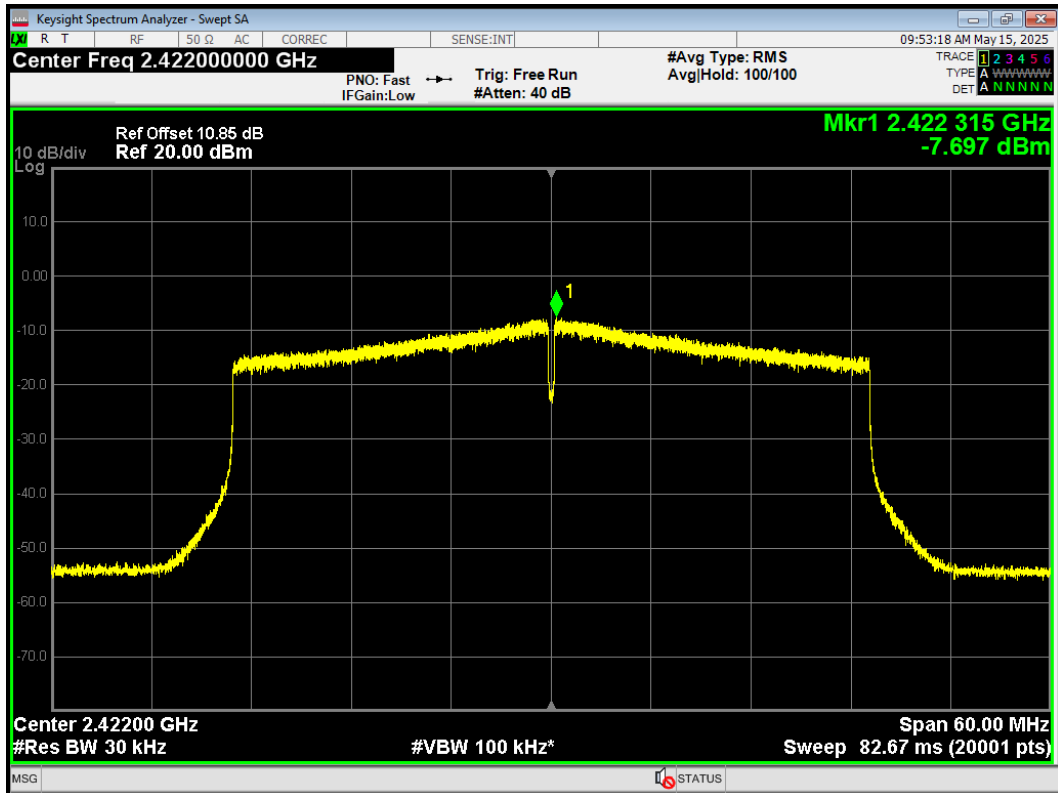
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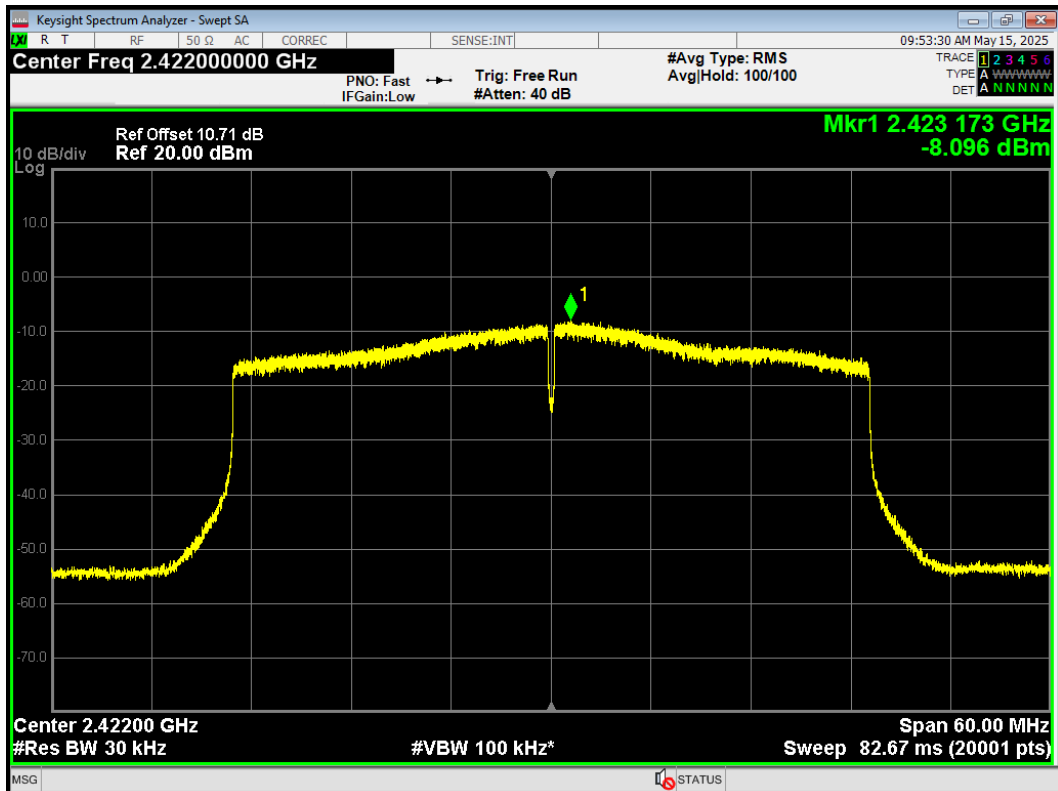
PSD 802.11ax HE20 242-Tones 2462MHz Ant2



PSD 802.11ax HE40 484-Tones 2422MHz Ant1

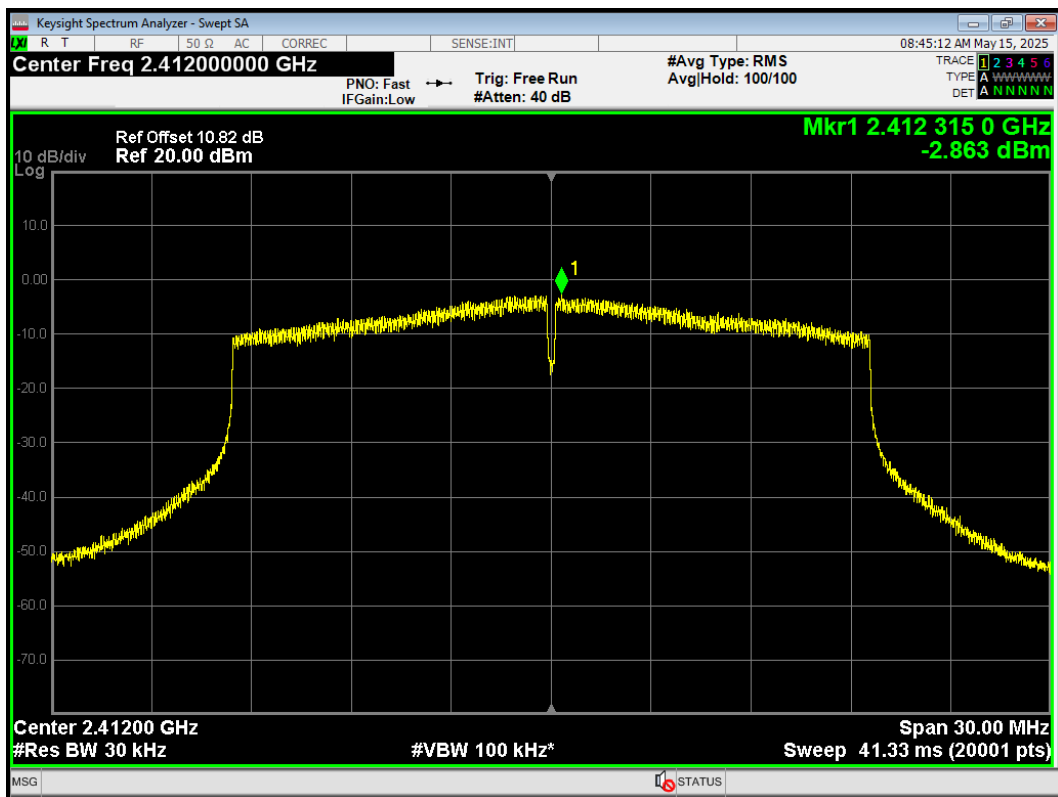


PSD 802.11ax HE40 484-Tones 2422MHz Ant2

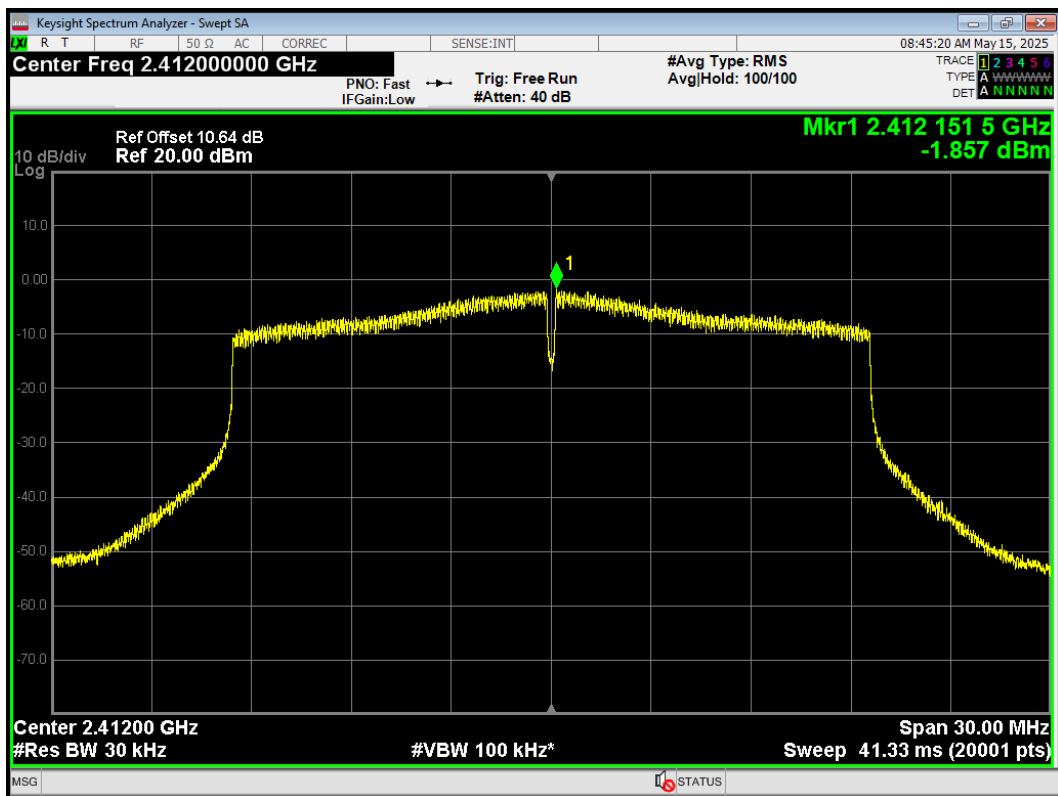


Beamforming

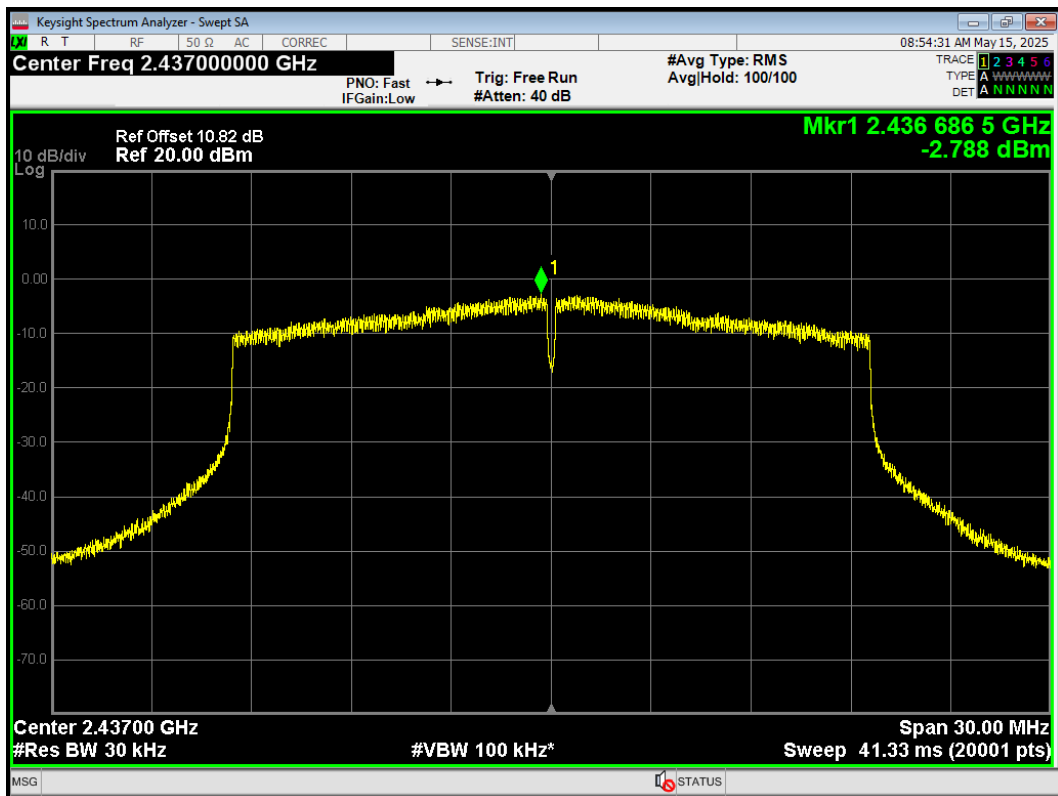
PSD 802.11ax HE20 242-Tones 2412MHz Ant1



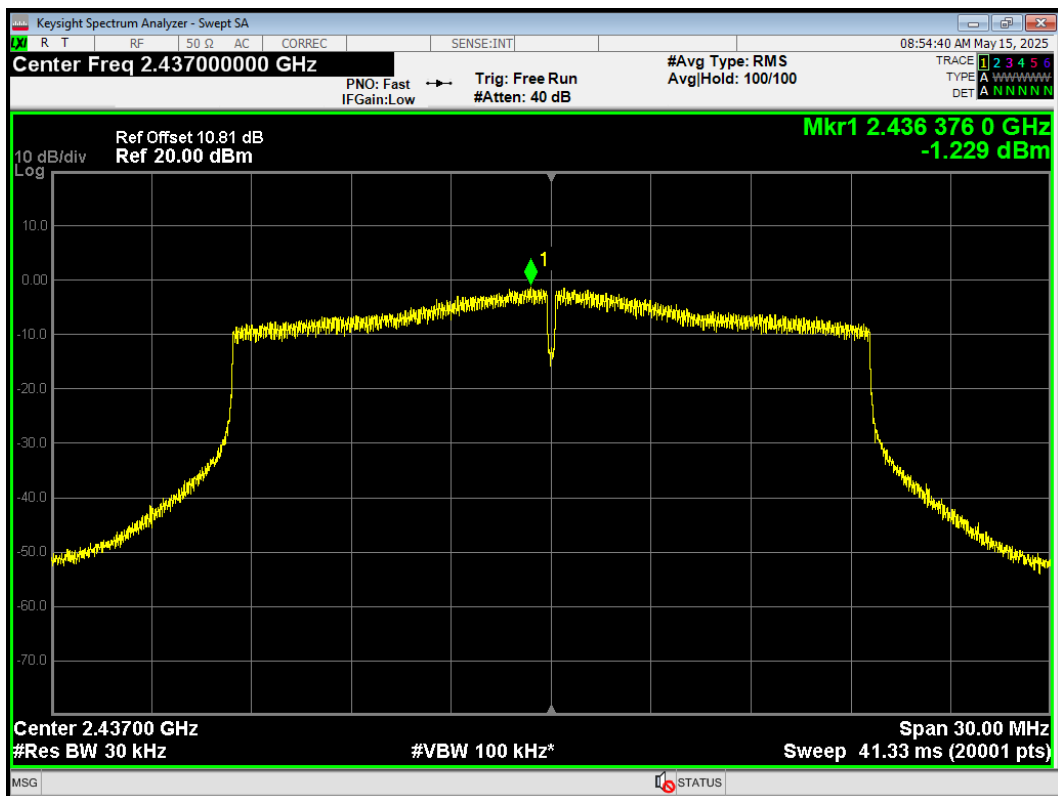
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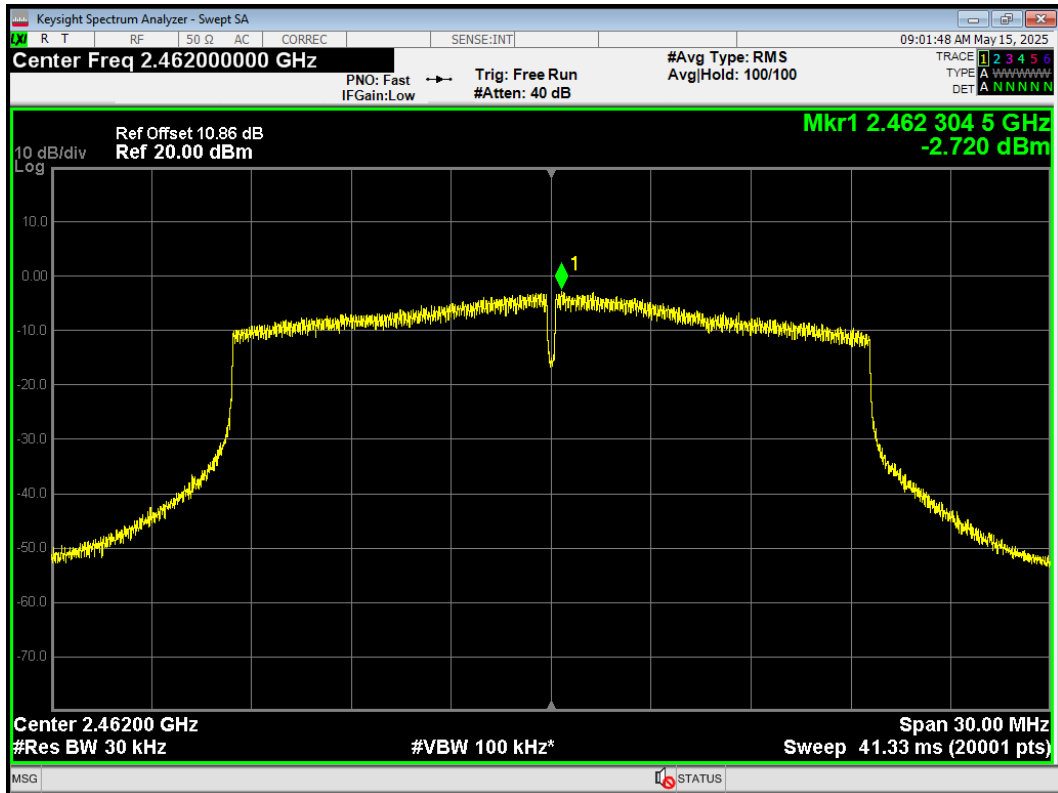
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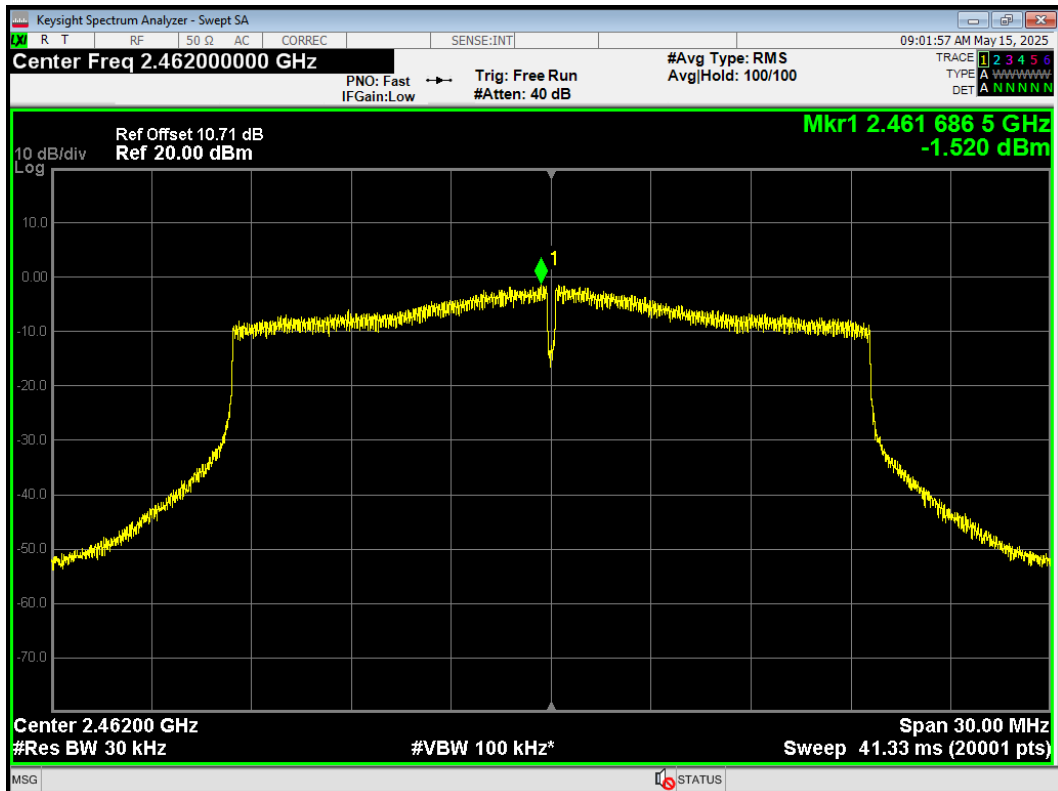
PSD 802.11ax HE20 242-Tones 2437MHz Ant2



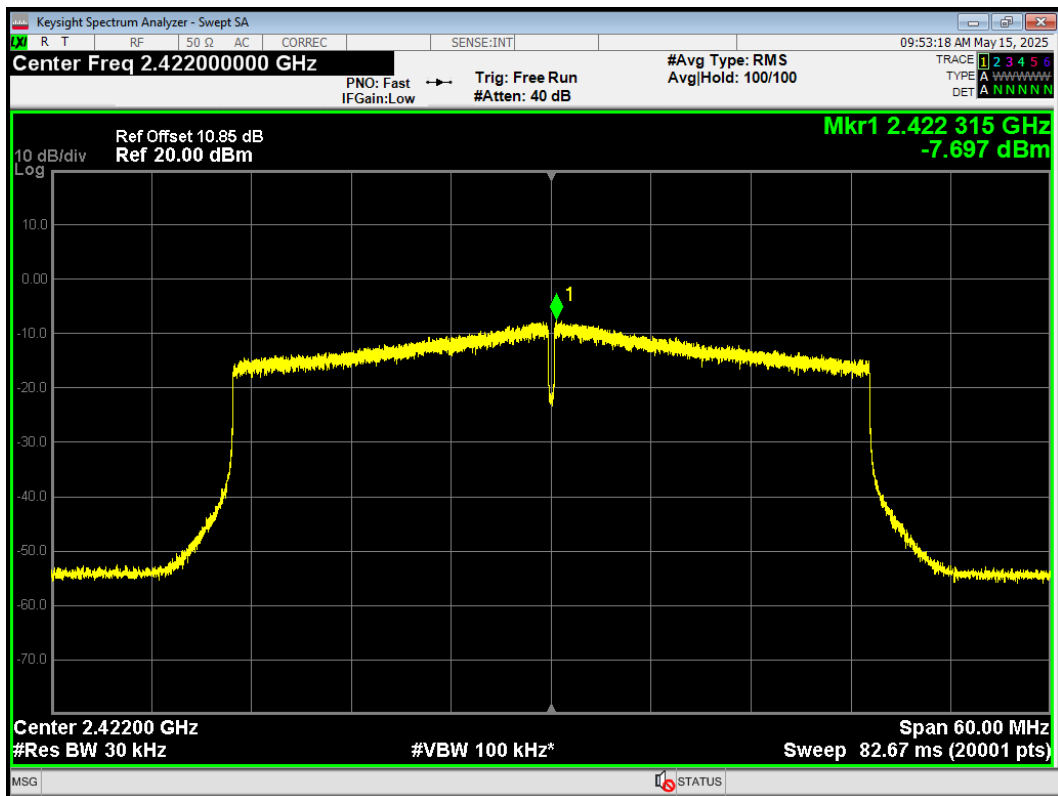
PSD 802.11ax HE20 242-Tones 2462MHz Ant1



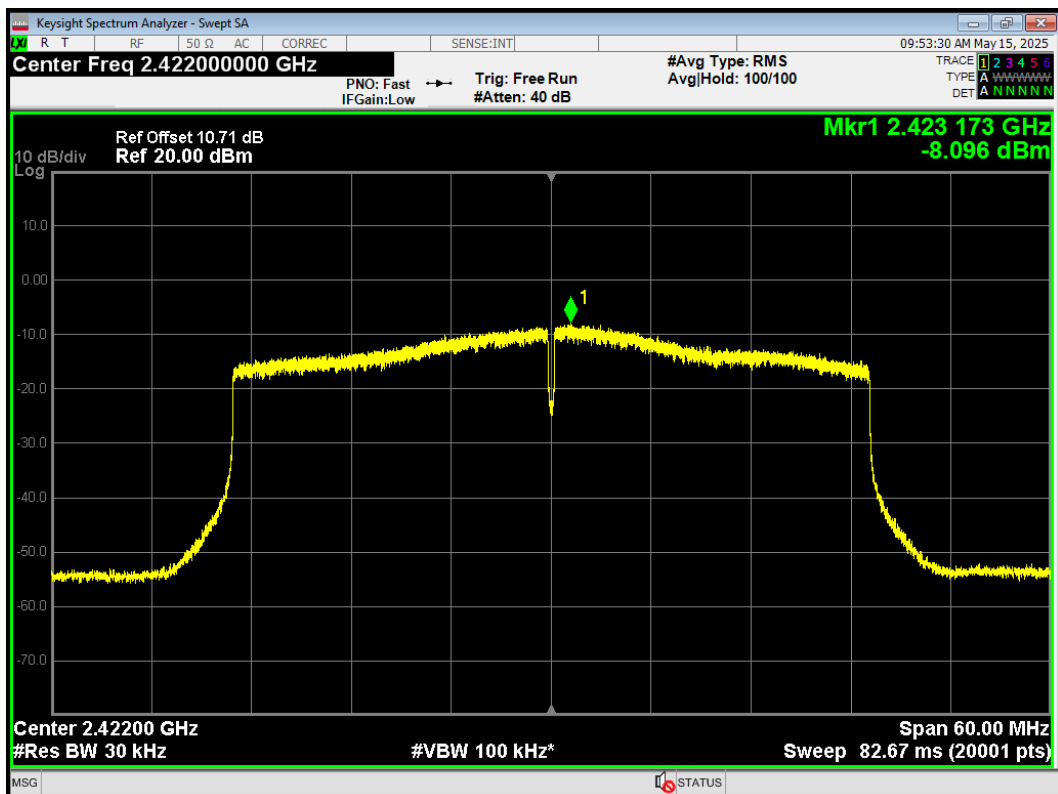
PSD 802.11ax HE20 242-Tones 2462MHz Ant2



PSD 802.11ax HE40 484-Tones 2422MHz Ant1



PSD 802.11ax HE40 484-Tones 2422MHz Ant2



5.5. Spurious RF Conducted Emissions

Ambient Condition

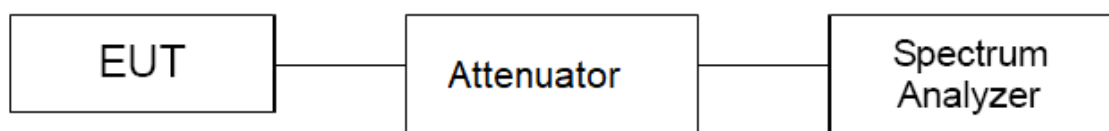
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to AUTO.

The test is in transmitting mode.

Test Setup



Limits

Rule Part 15.247(d) specifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB."

SU Mode

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	18.240	-11.76
	2437	18.040	-11.96
	2462	18.610	-11.39
802.11g	2412	12.950	-17.05
	2417	16.790	-13.21
	2437	17.590	-12.41
	2457	16.860	-13.14
	2462	15.230	-14.77

802.11n HT20	2412	14.120	-15.88
	2417	14.510	-15.49
	2437	16.240	-13.76
	2457	15.450	-14.55
	2462	12.210	-17.79
802.11n HT40	2422	7.710	-22.29
	2427	9.490	-20.51
	2437	11.140	-18.86
	2447	9.820	-20.18
	2452	7.330	-22.67
802.11ax HE20	2412	13.300	-16.70
	2417	14.030	-15.97
	2437	15.330	-14.67
	2457	18.360	-11.64
	2462	10.870	-19.13
802.11ax HE40	2422	6.180	-23.82
	2427	11.360	-18.64
	2437	10.900	-19.10
	2447	10.060	-19.94
	2452	8.250	-21.75

RU Mode

Test Mode	Carrier frequency (MHz)	RU Index	Reference value (dBm)	Limit
802.11ax HE20 242-Tones	2412	61	9.310	-20.69
	2437	61	9.210	-20.79
	2462	61	11.260	-18.74
802.11ax HE40 484-Tones	2422	65	5.200	-24.80

Measurement Uncertainty

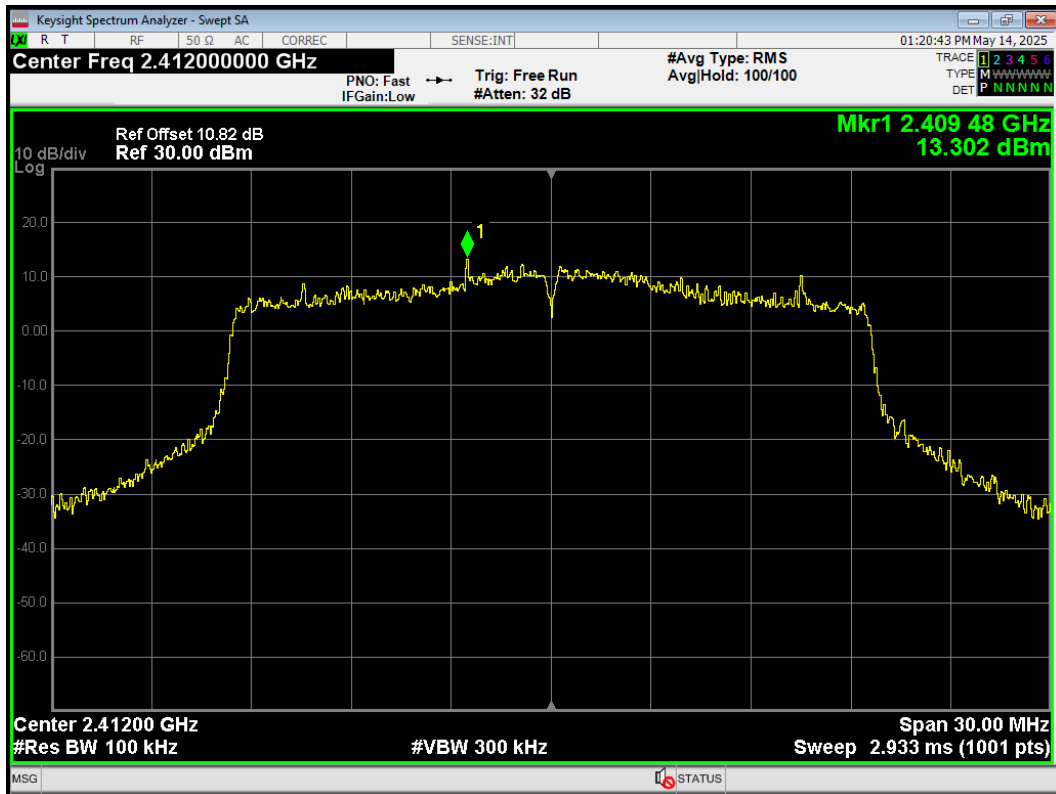
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

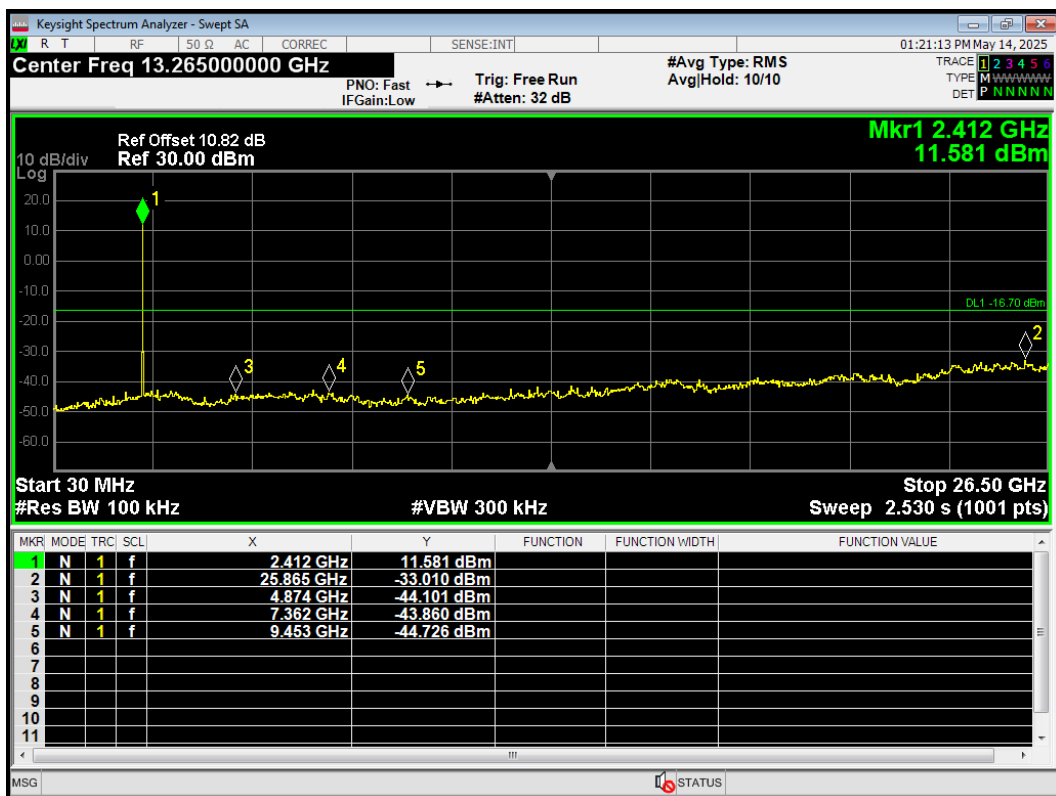
Test Results:

SU Mode

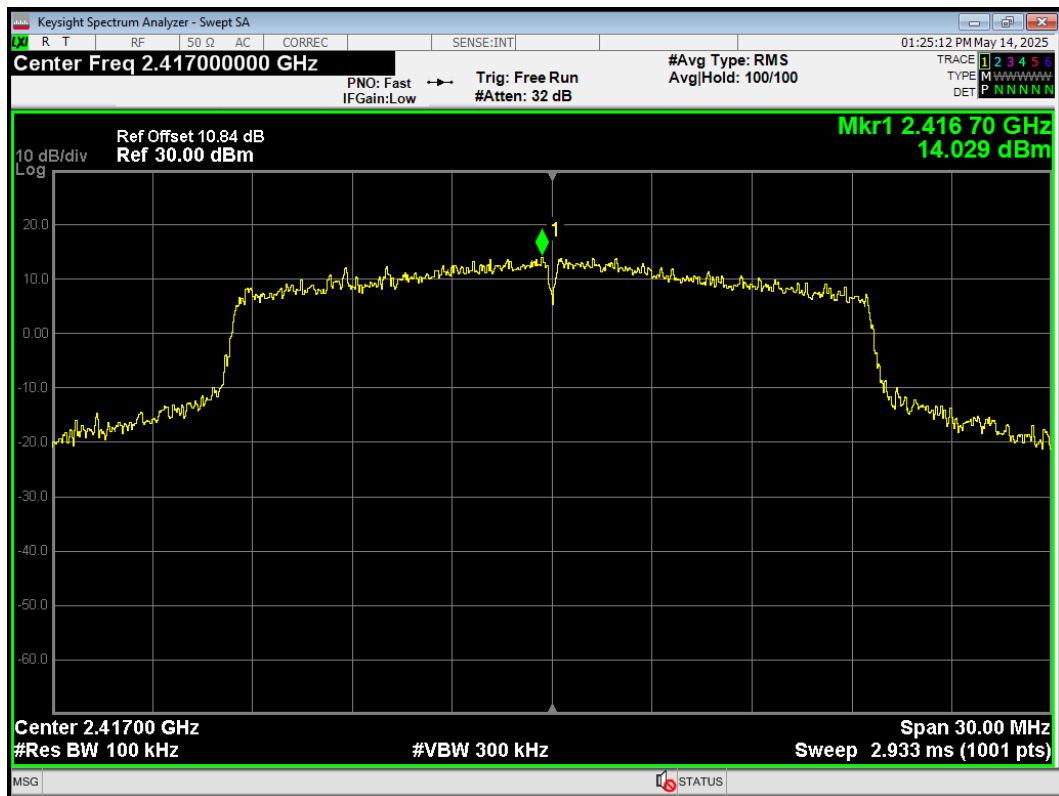
Tx. Spurious 802.11ax(HE20) 2412MHz Ref



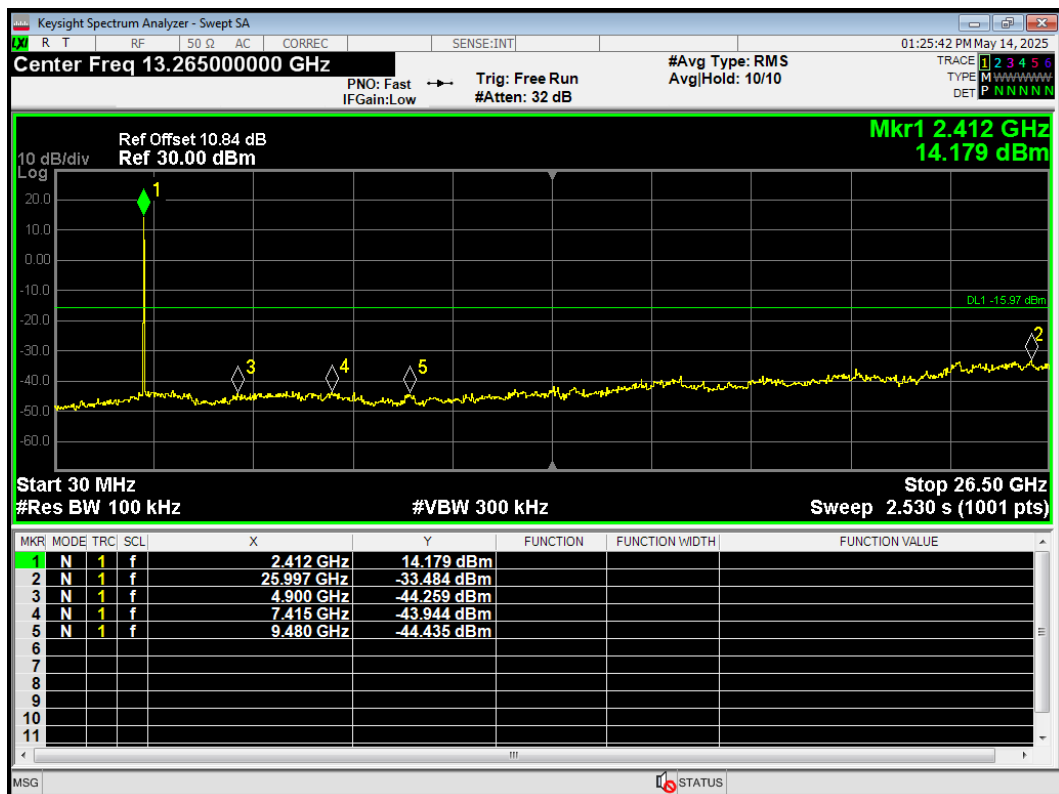
Tx. Spurious 802.11ax(HE20) 2412MHz Emission



Tx. Spurious 802.11ax(HE20) 2417MHz Ref



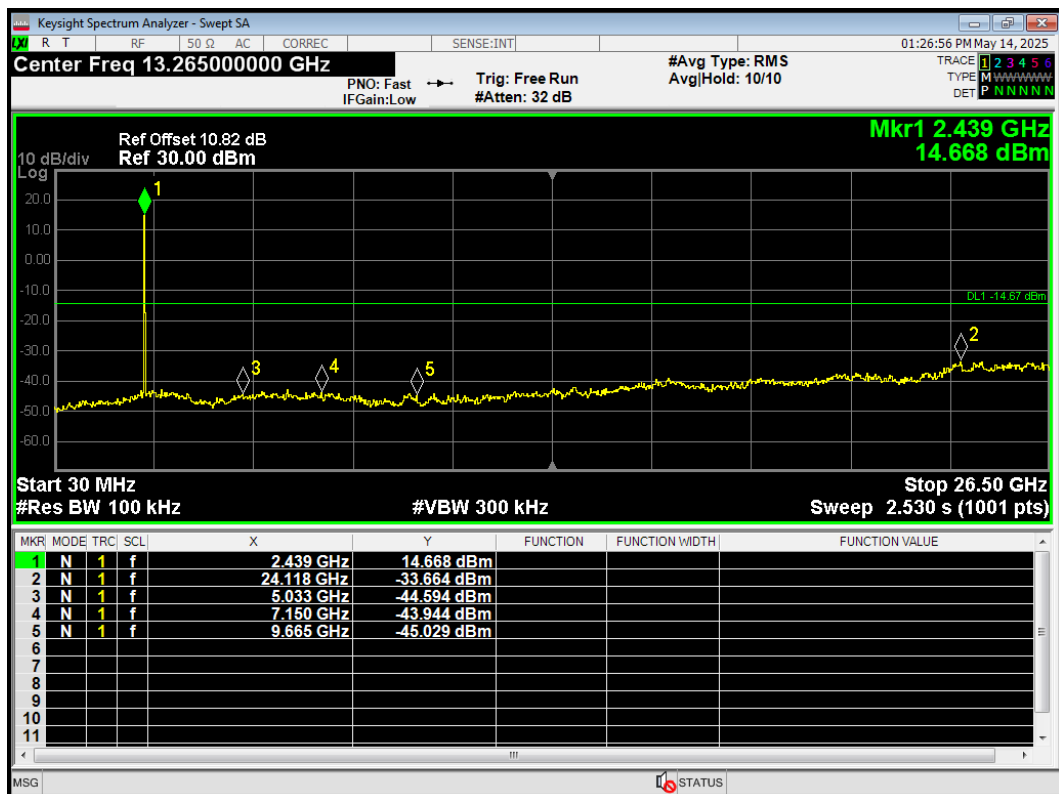
Tx. Spurious 802.11ax(HE20) 2417MHz Emission



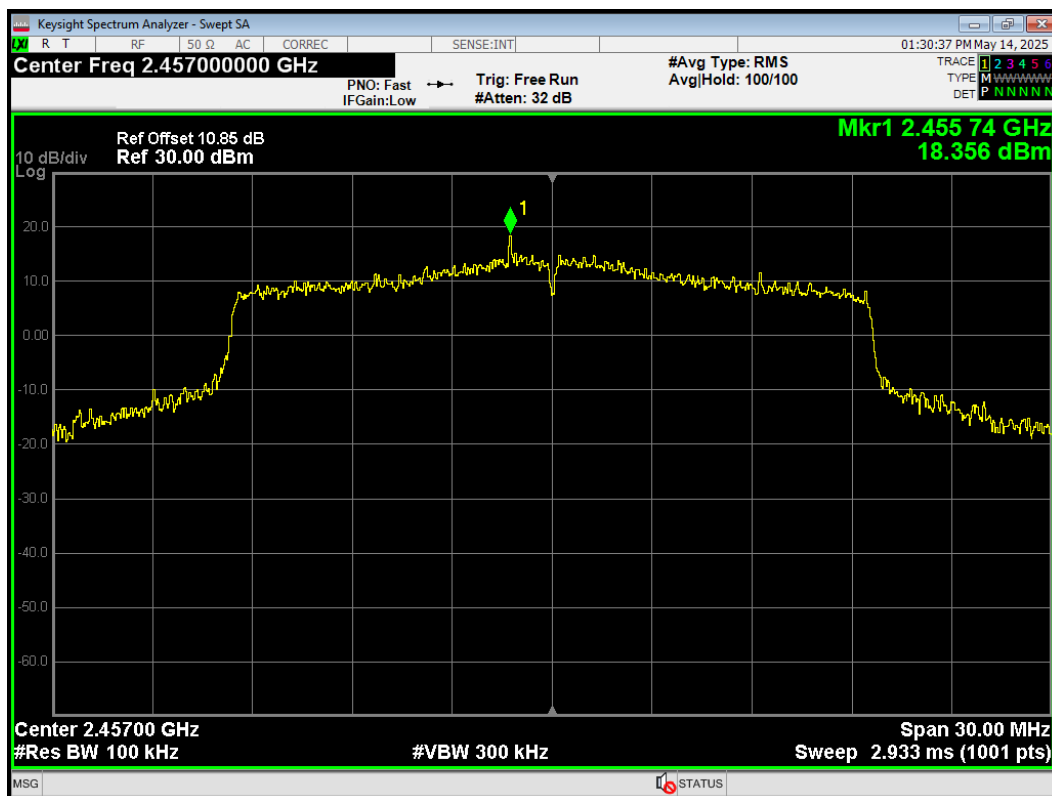
Tx. Spurious 802.11ax(HE20) 2437MHz Ref



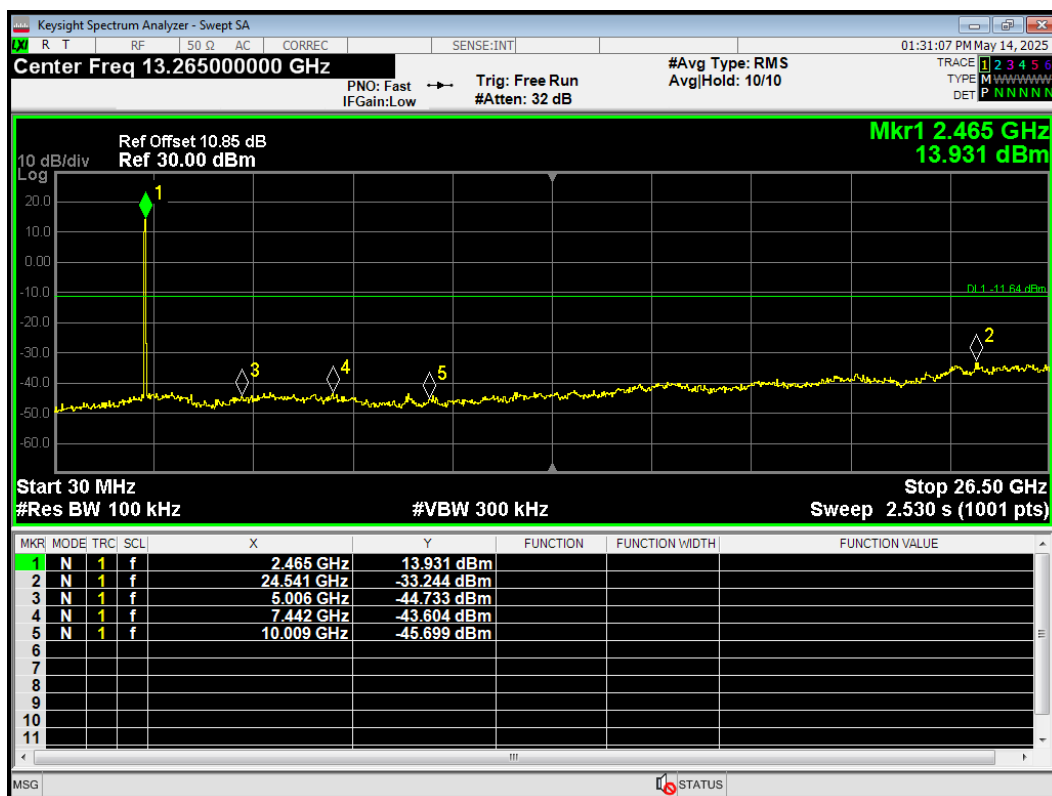
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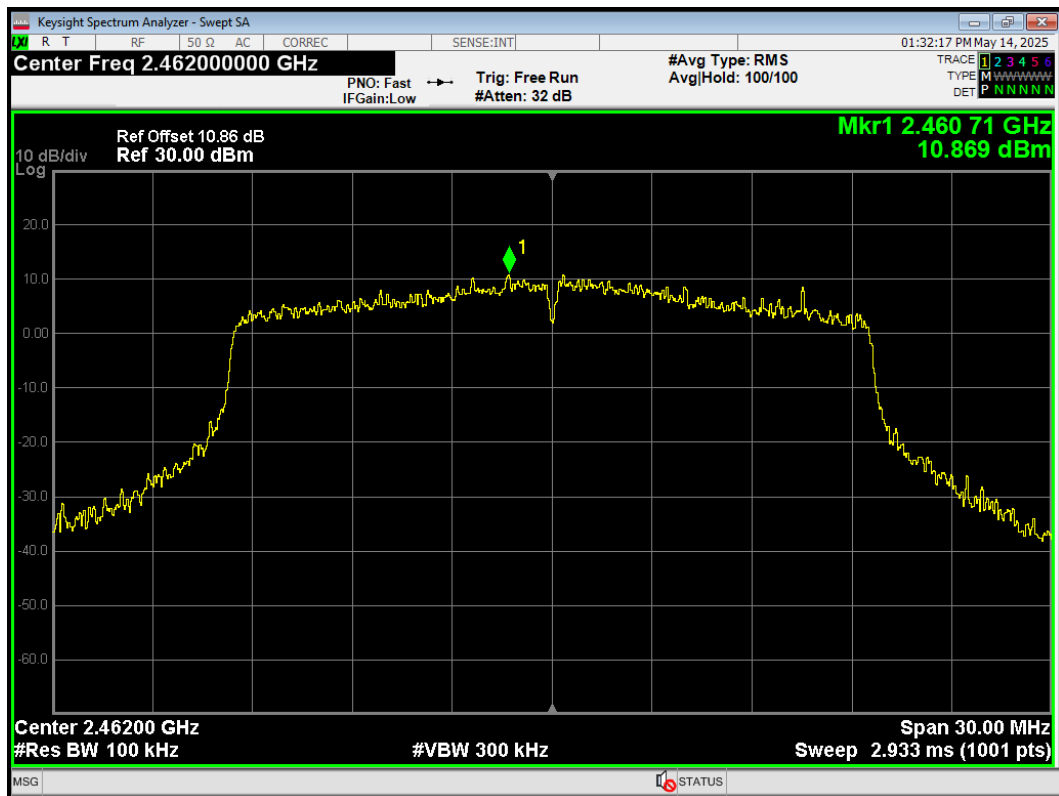
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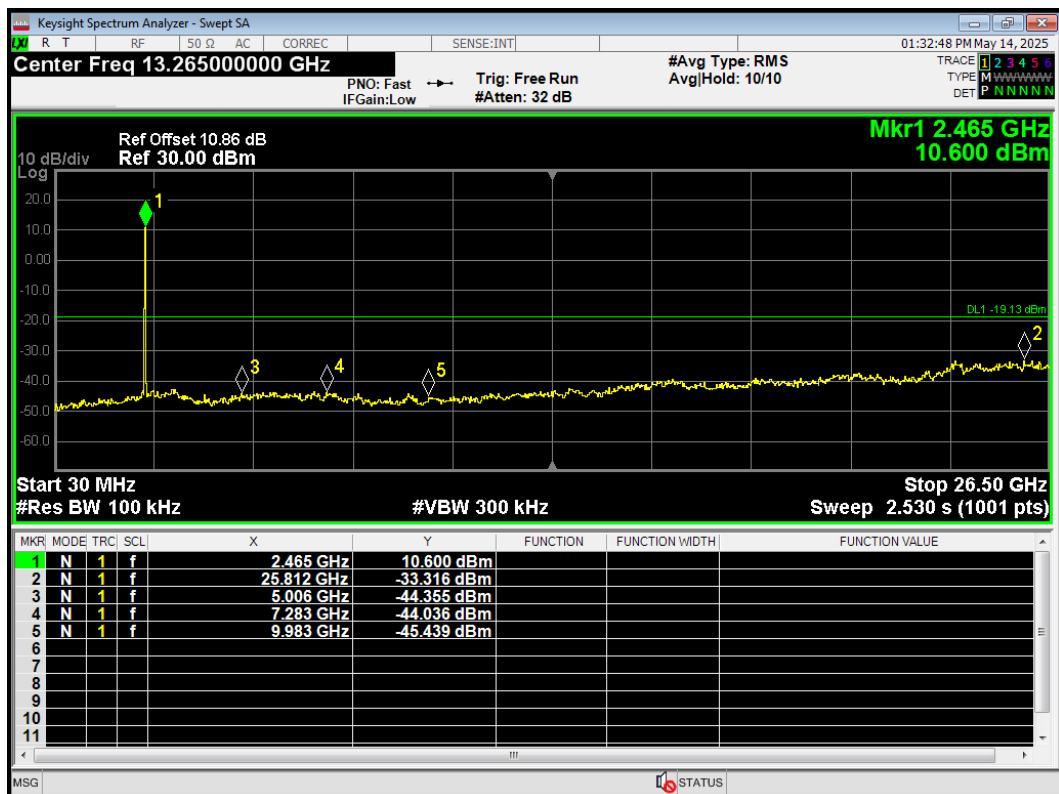
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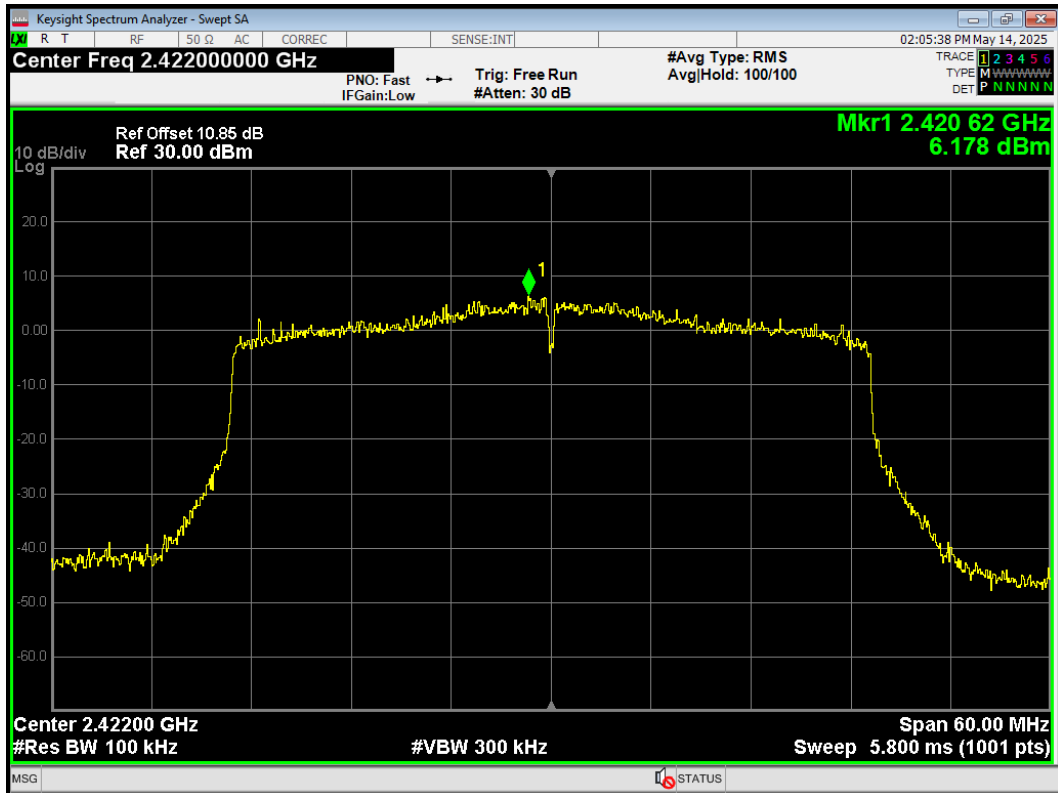
Tx. Spurious 802.11ax(HE20) 2462MHz Ref



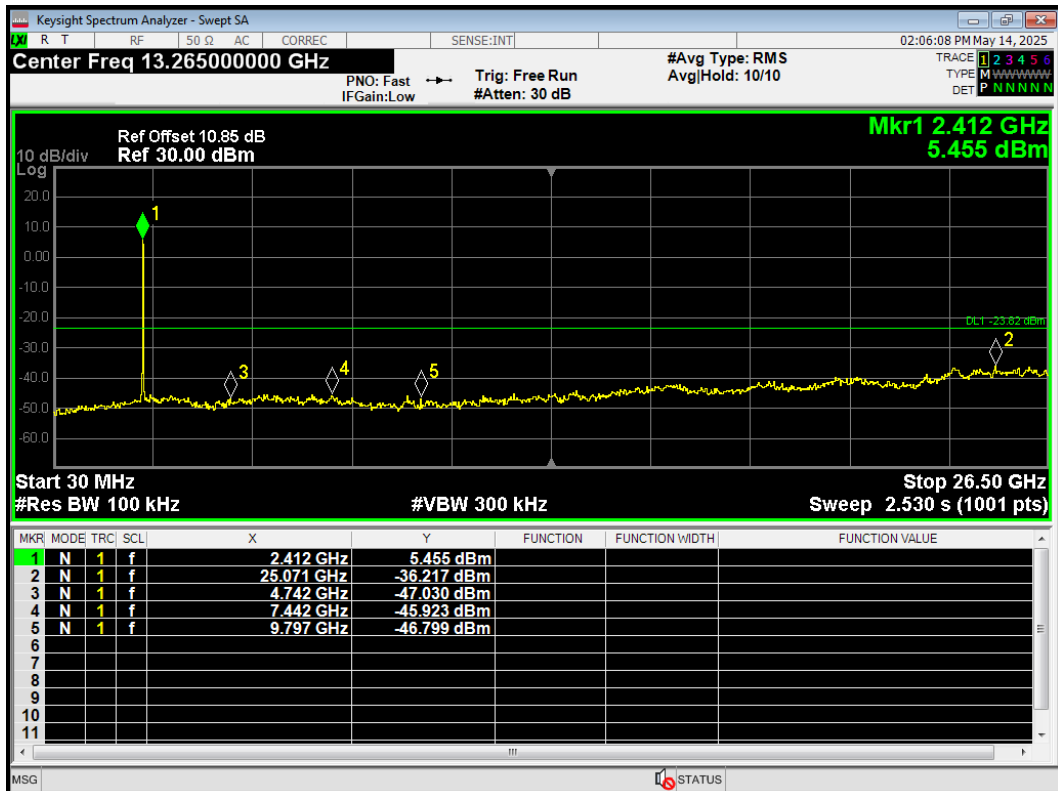
Tx. Spurious 802.11ax(HE20) 2462MHz Emission



Tx. Spurious 802.11ax(HE40) 2422MHz Ref



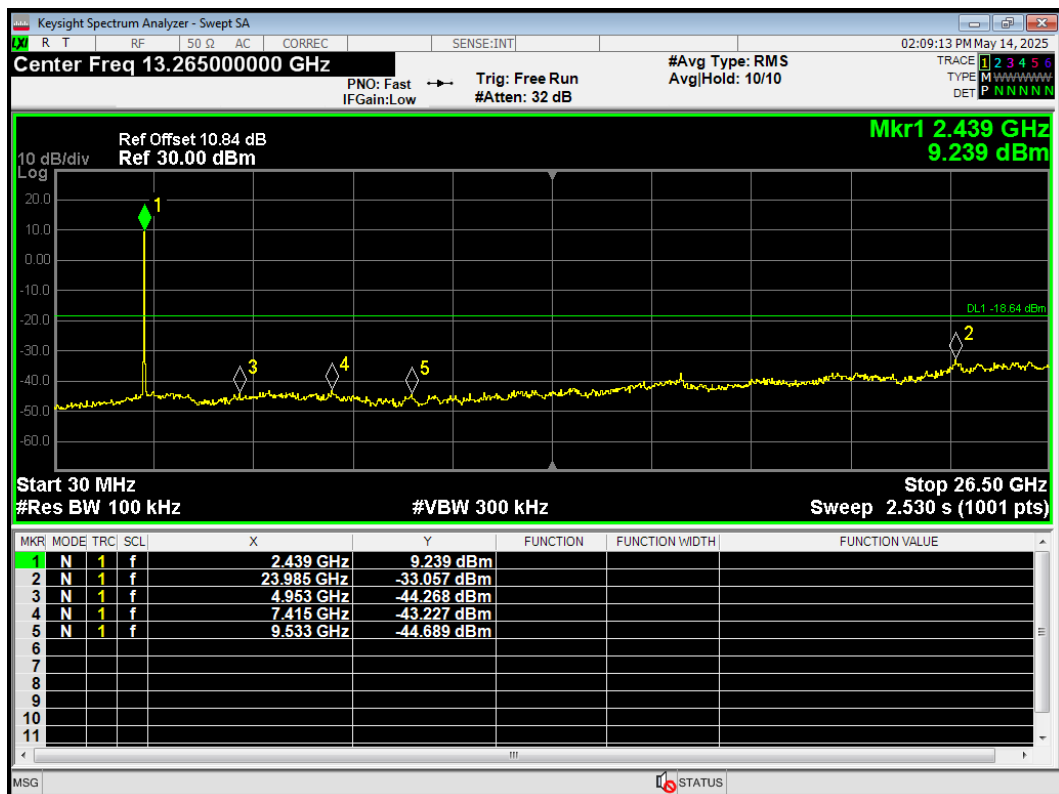
Tx. Spurious 802.11ax(HE40) 2422MHz Emission



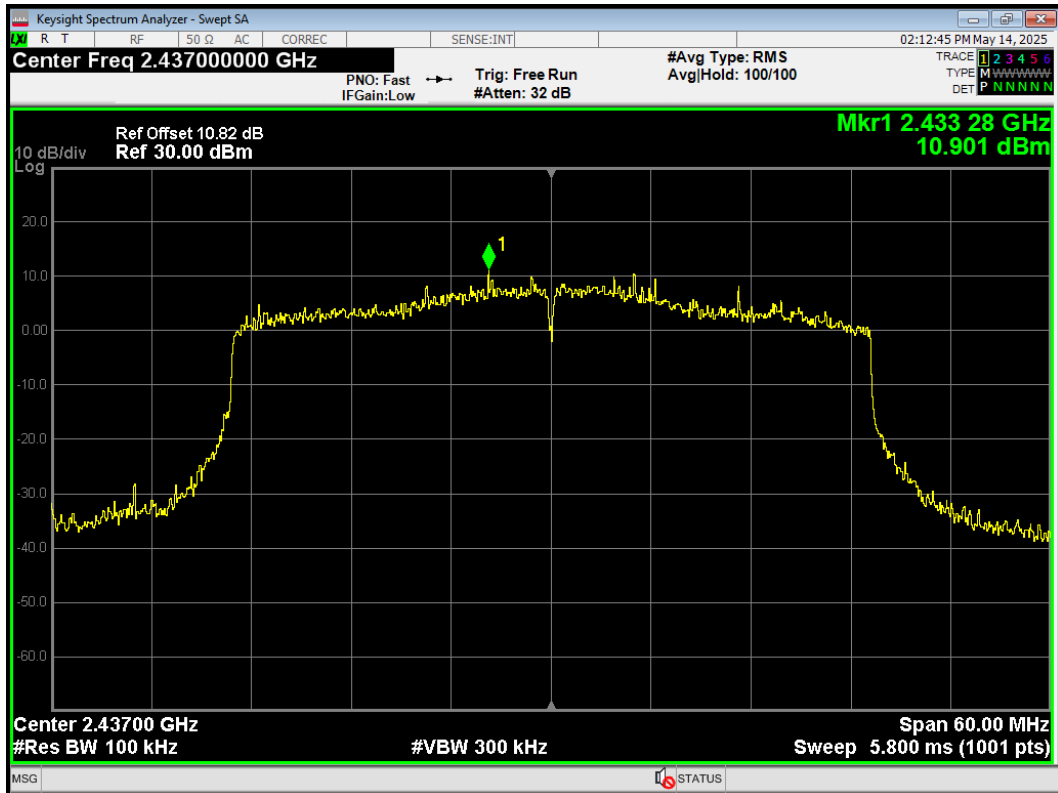
Tx. Spurious 802.11ax(HE40) 2427MHz Ref



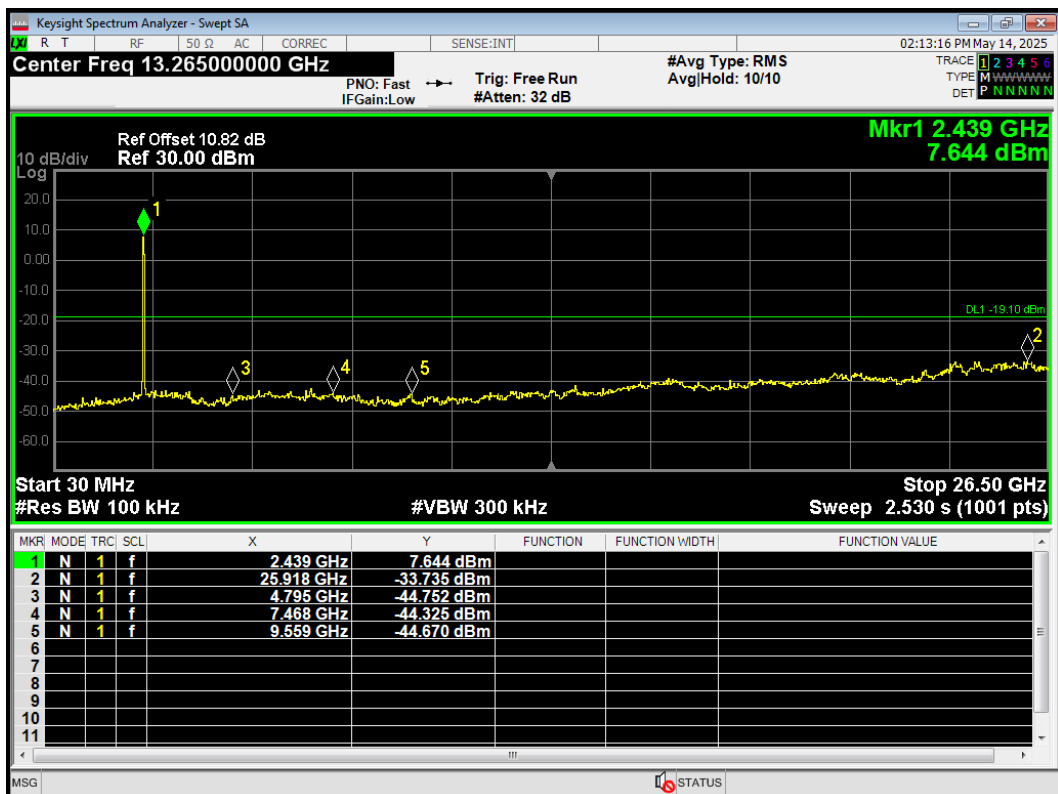
Tx. Spurious 802.11ax(HE40) 2427MHz Emission



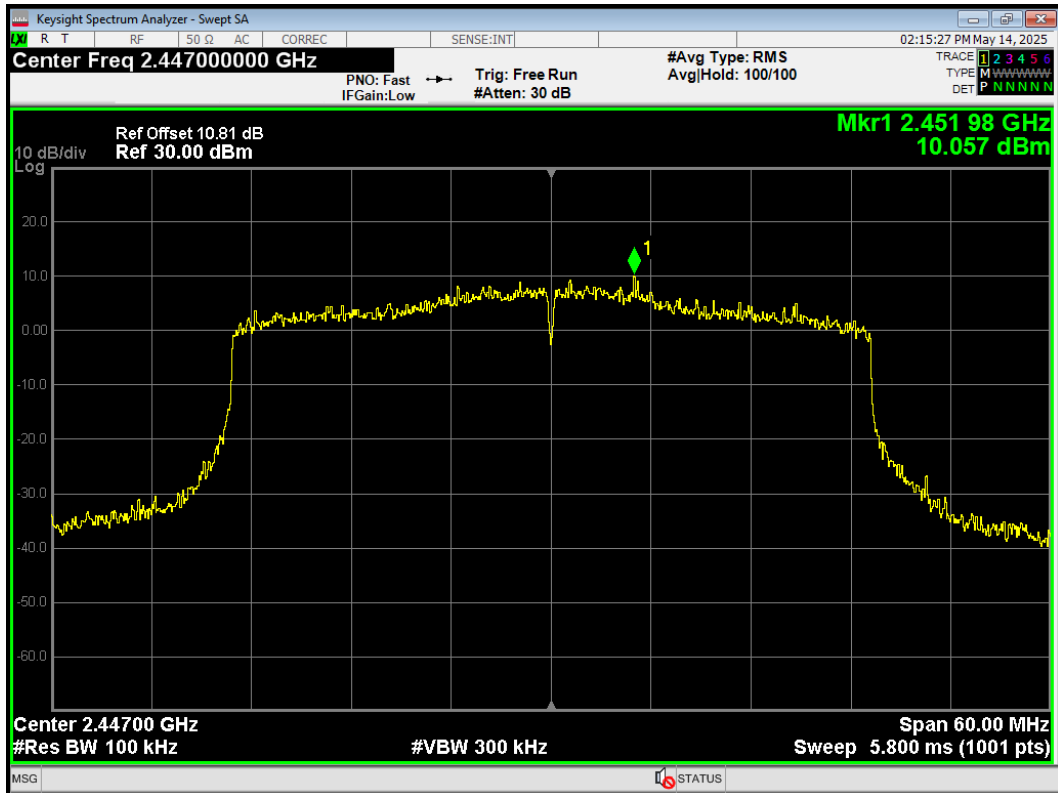
Tx. Spurious 802.11ax(HE40) 2437MHz Ref



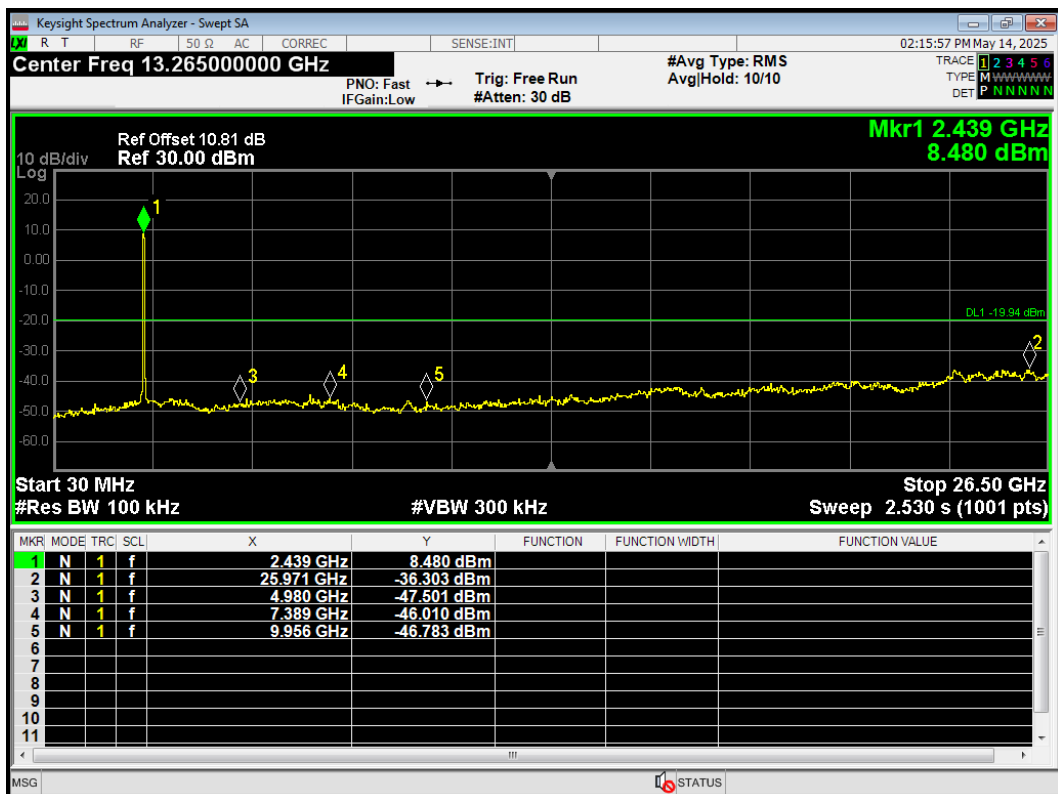
Tx. Spurious 802.11ax(HE40) 2437MHz Emission



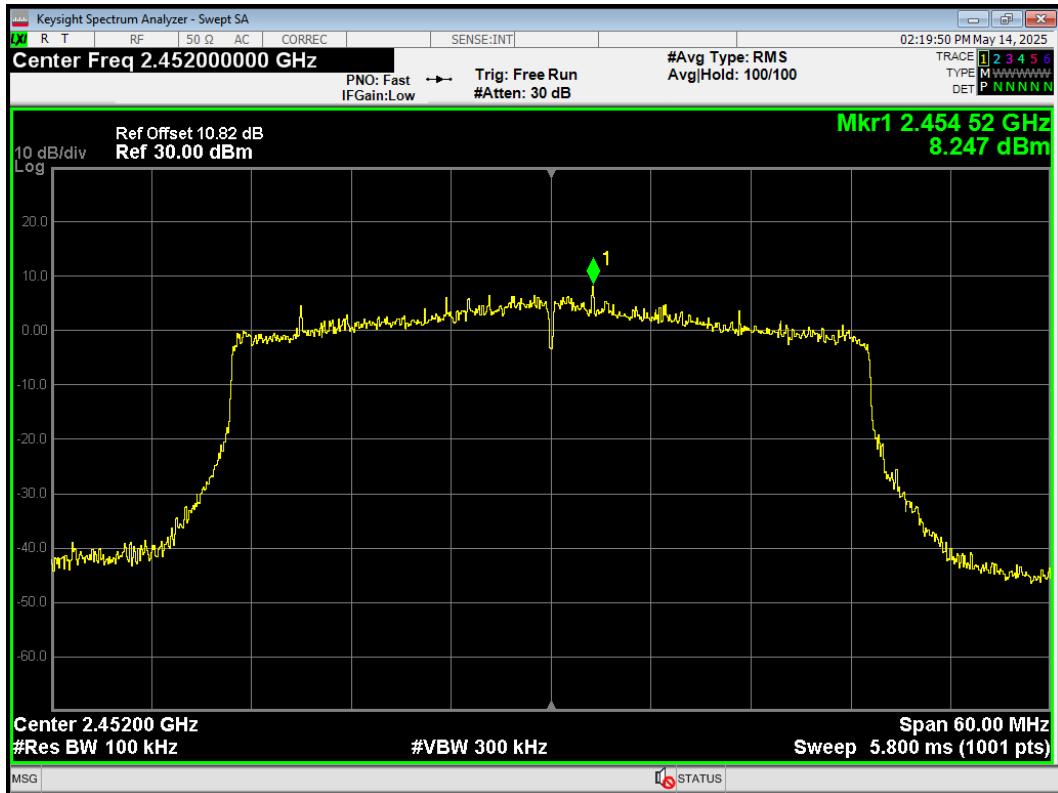
Tx. Spurious 802.11ax(HE40) 2447MHz Ref



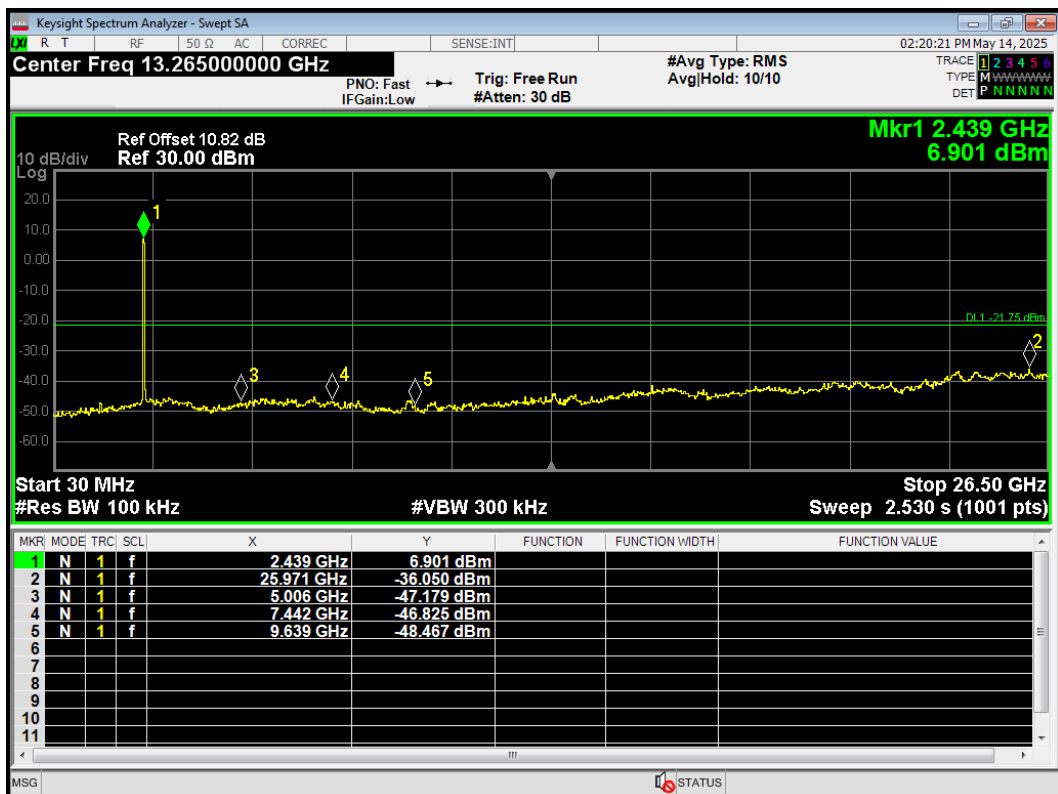
Tx. Spurious 802.11ax(HE40) 2447MHz Emission



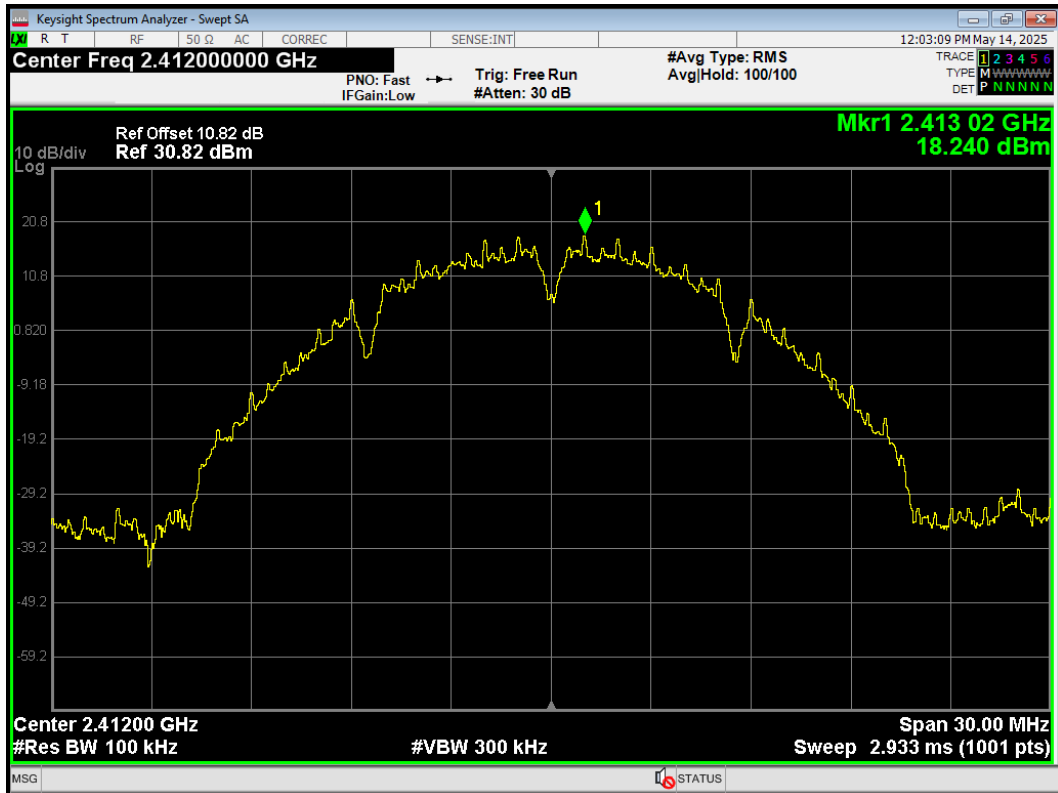
Tx. Spurious 802.11ax(HE40) 2452MHz Ref



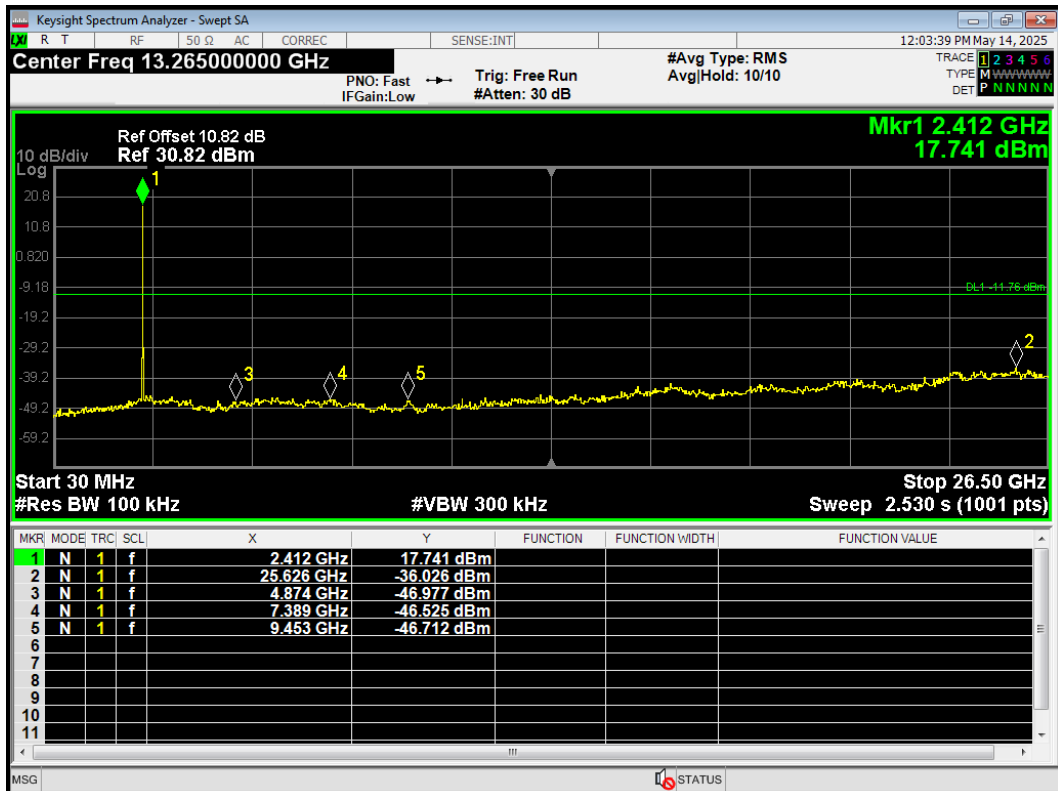
Tx. Spurious 802.11ax(HE40) 2452MHz Emission



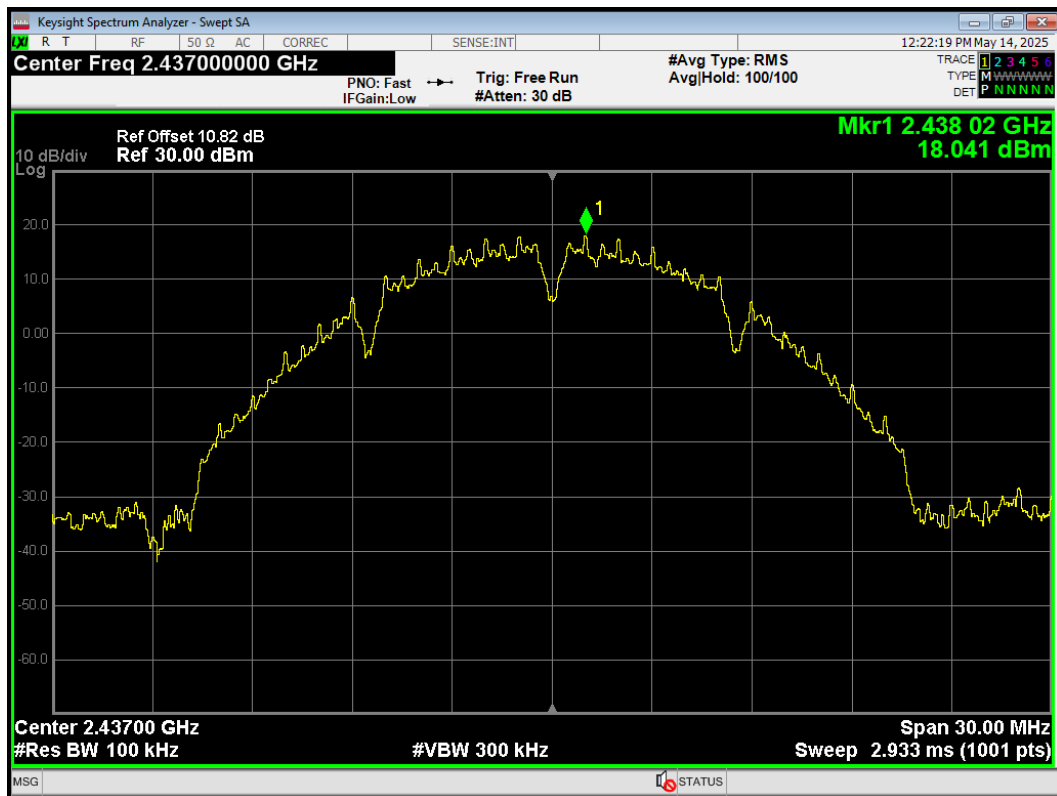
Tx. Spurious 802.11b 2412MHz Ref



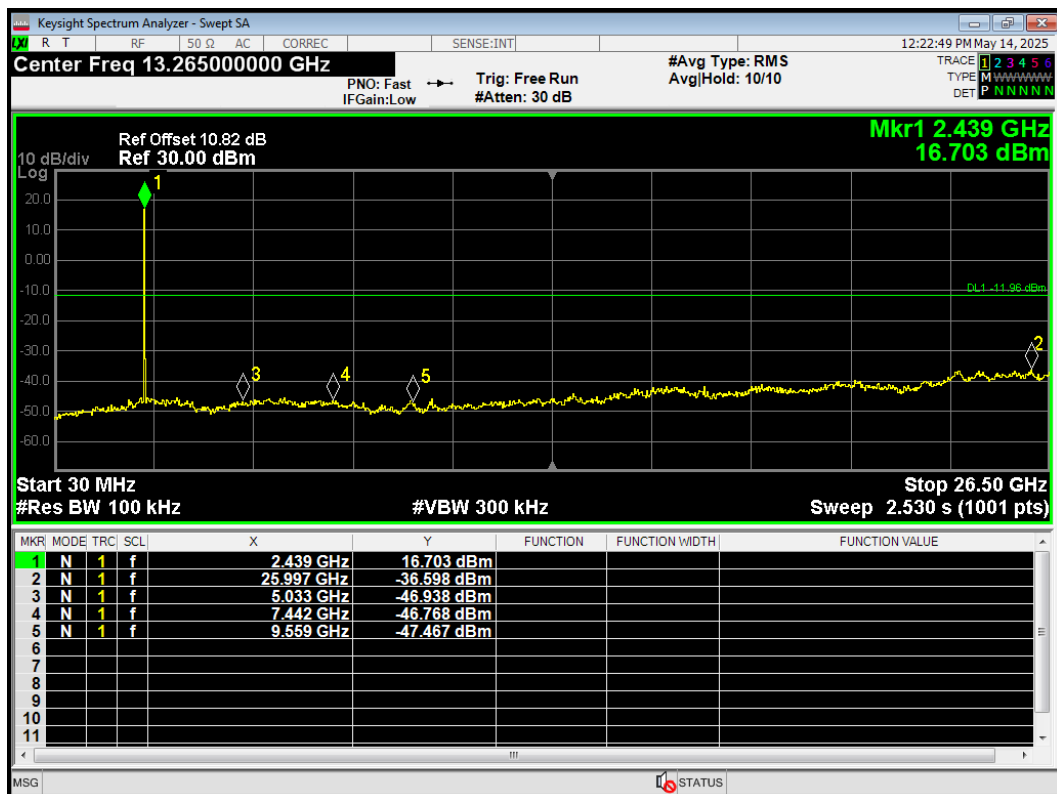
Tx. Spurious 802.11b 2412MHz Emission



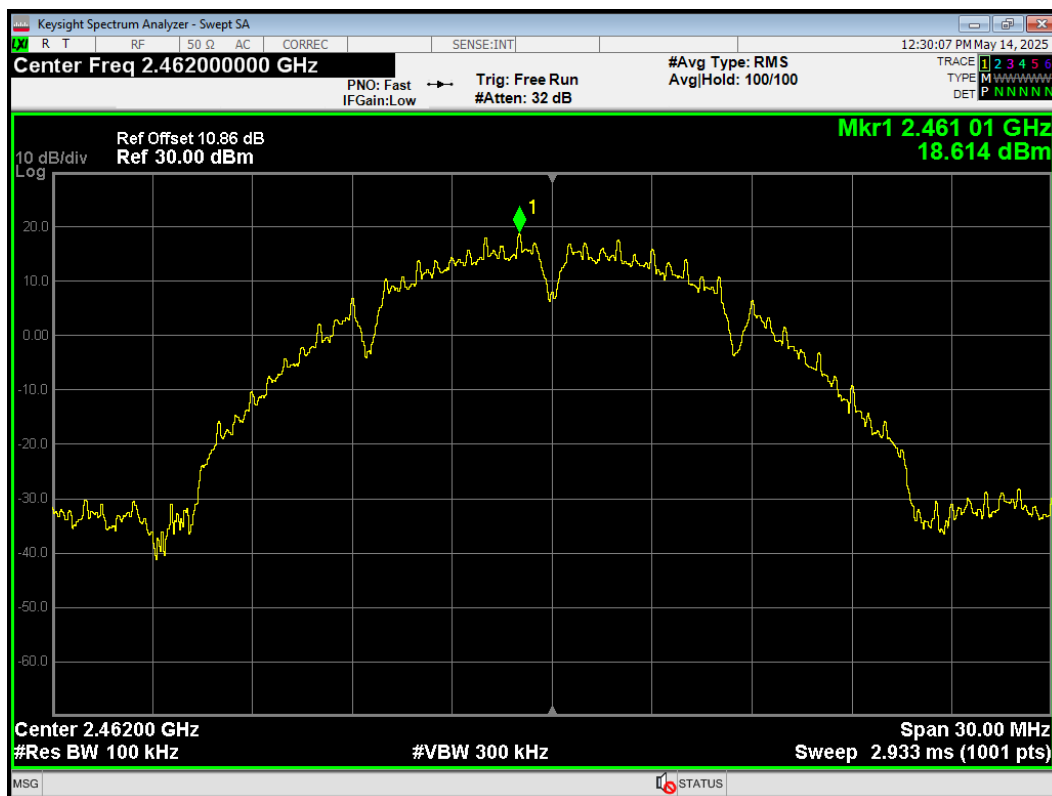
Tx. Spurious 802.11b 2437MHz Ref



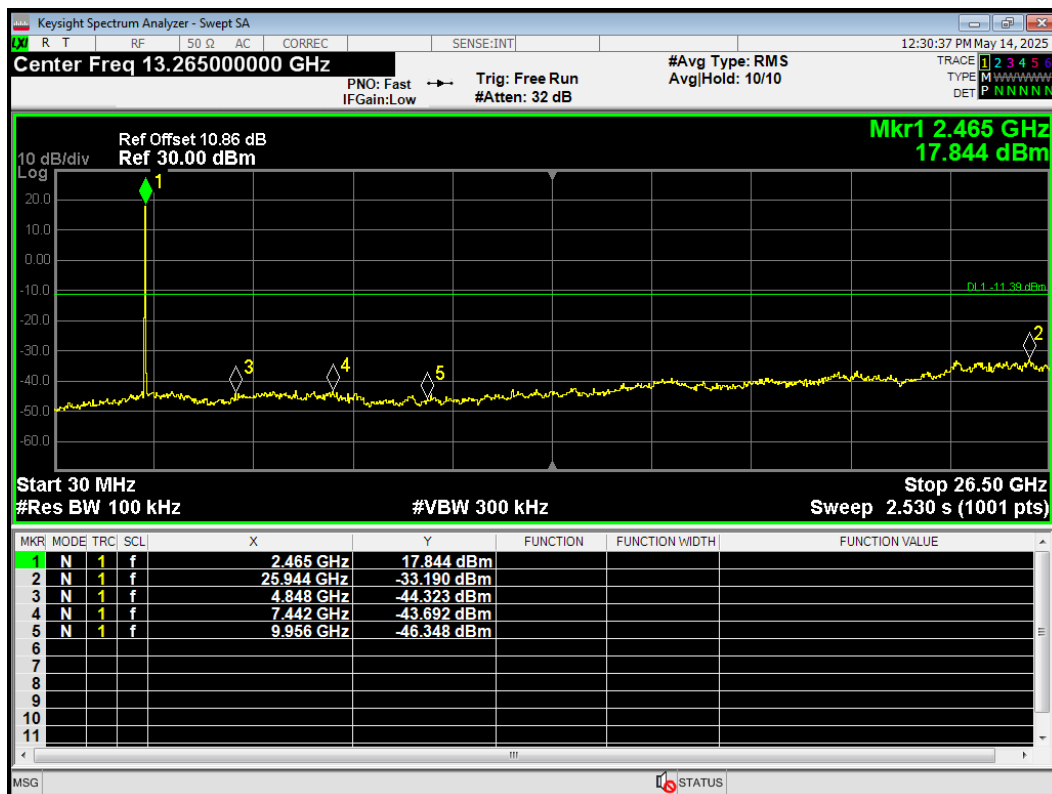
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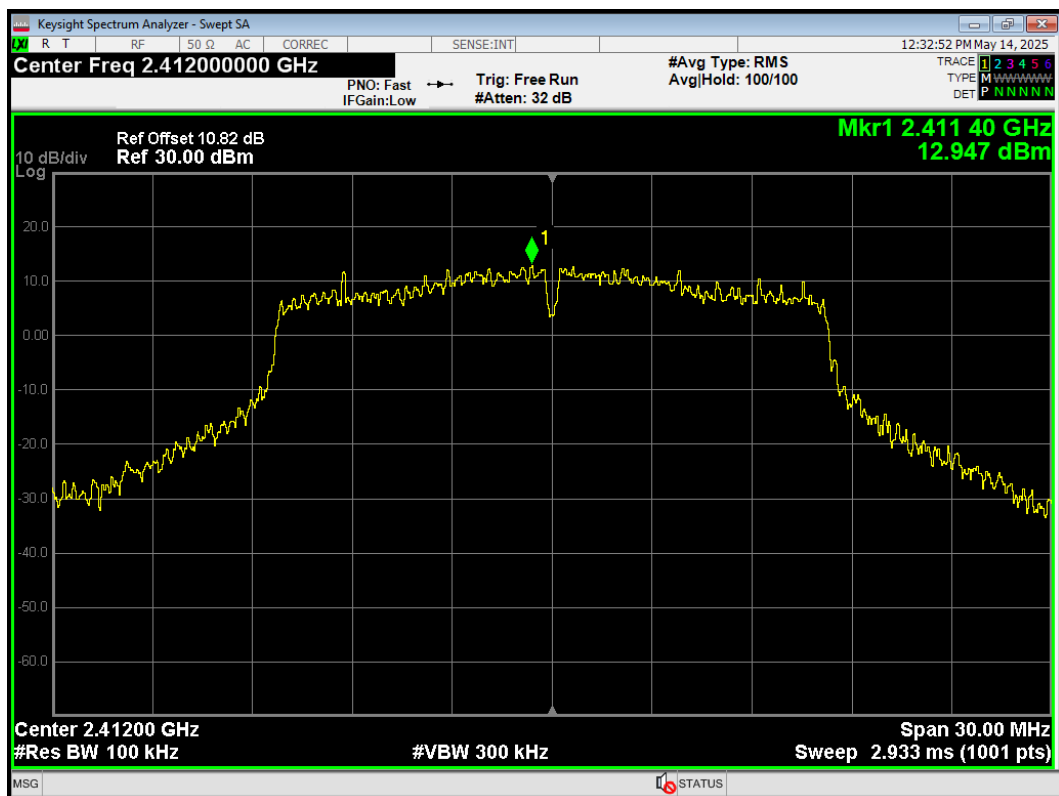
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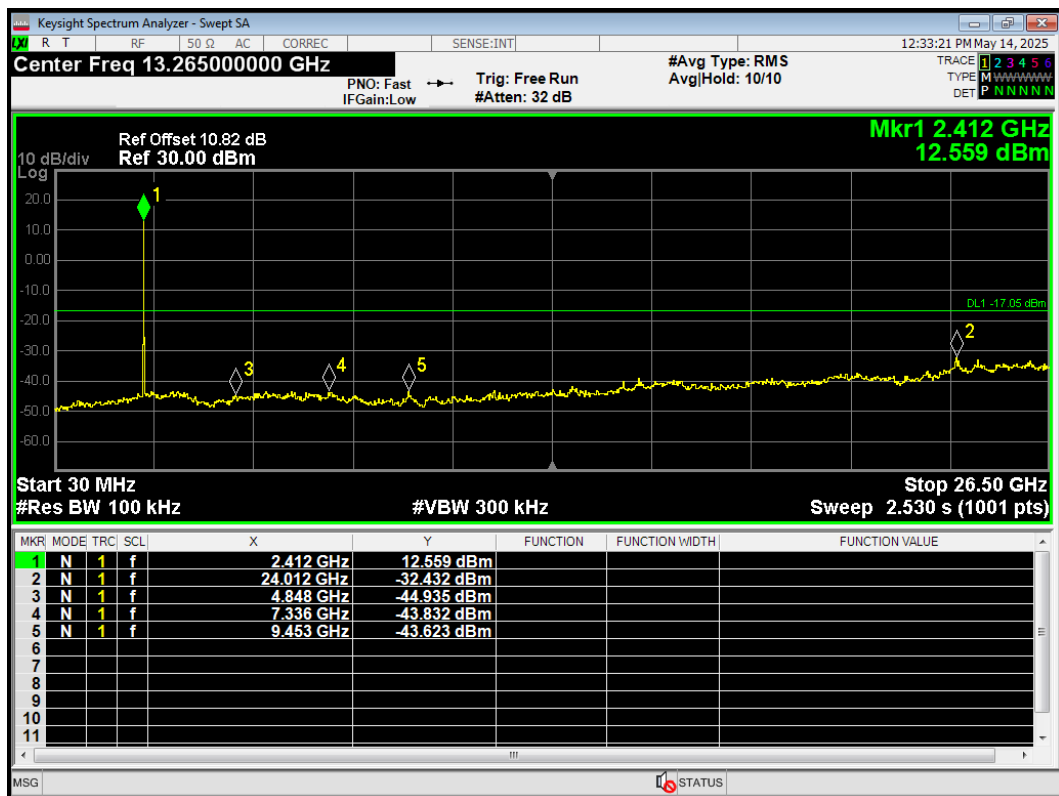
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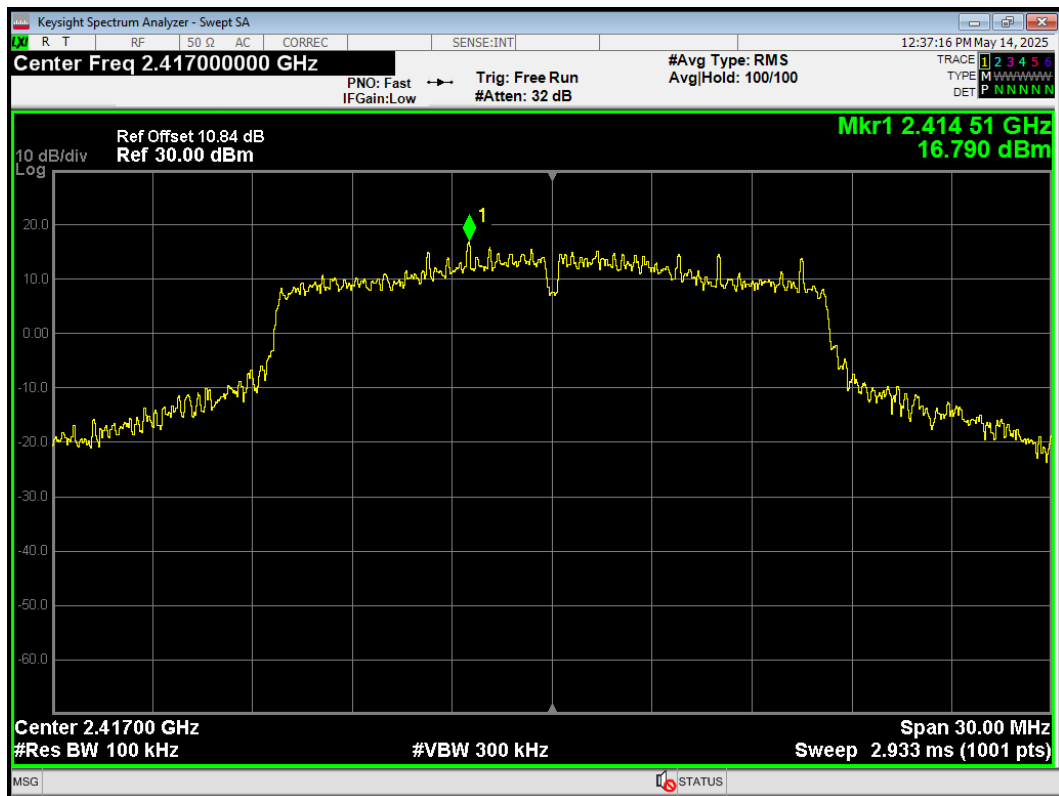
Tx. Spurious 802.11g 2412MHz Ref



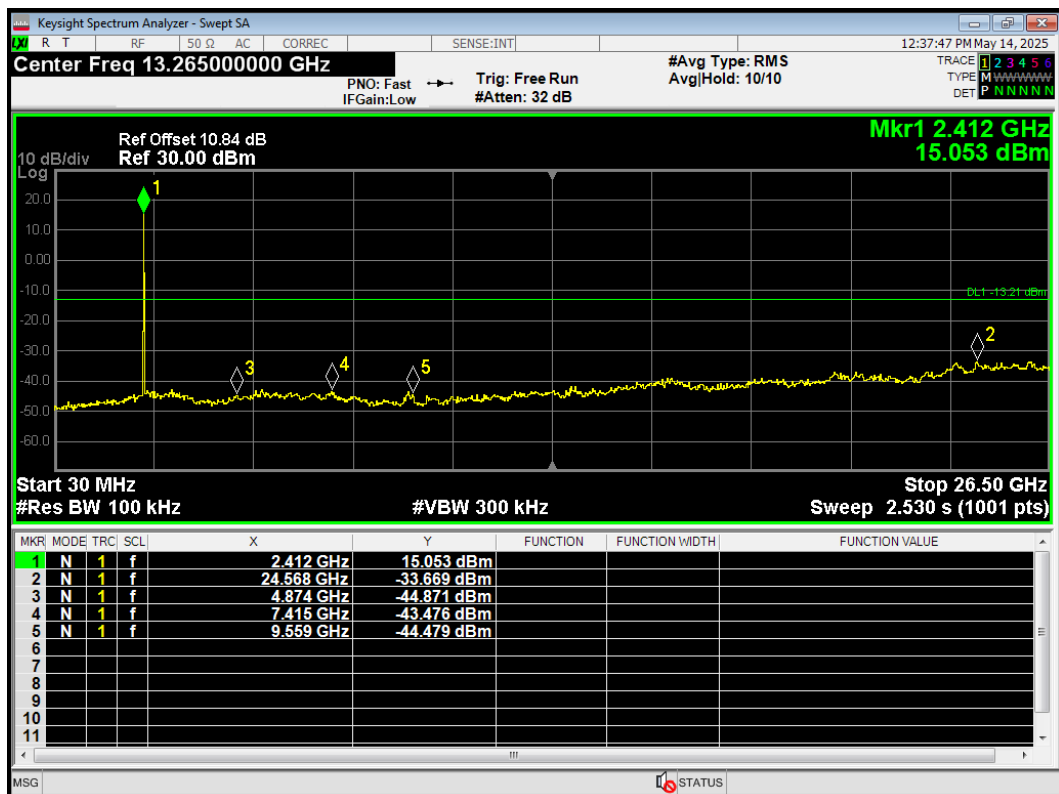
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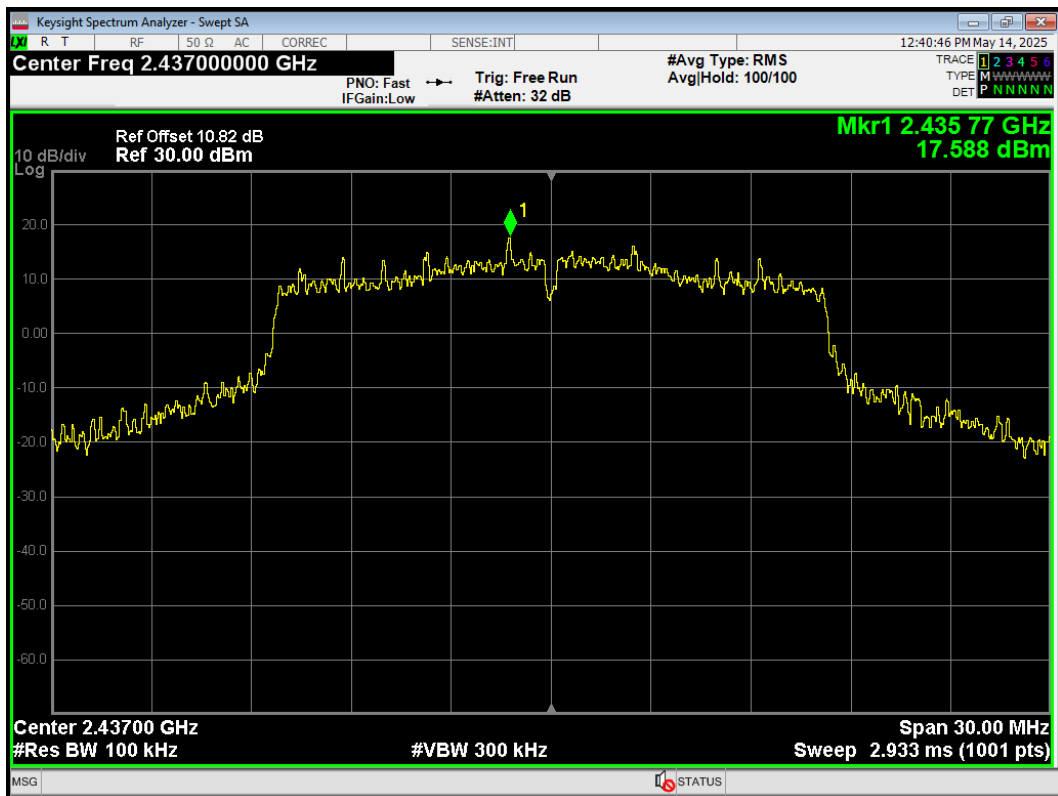
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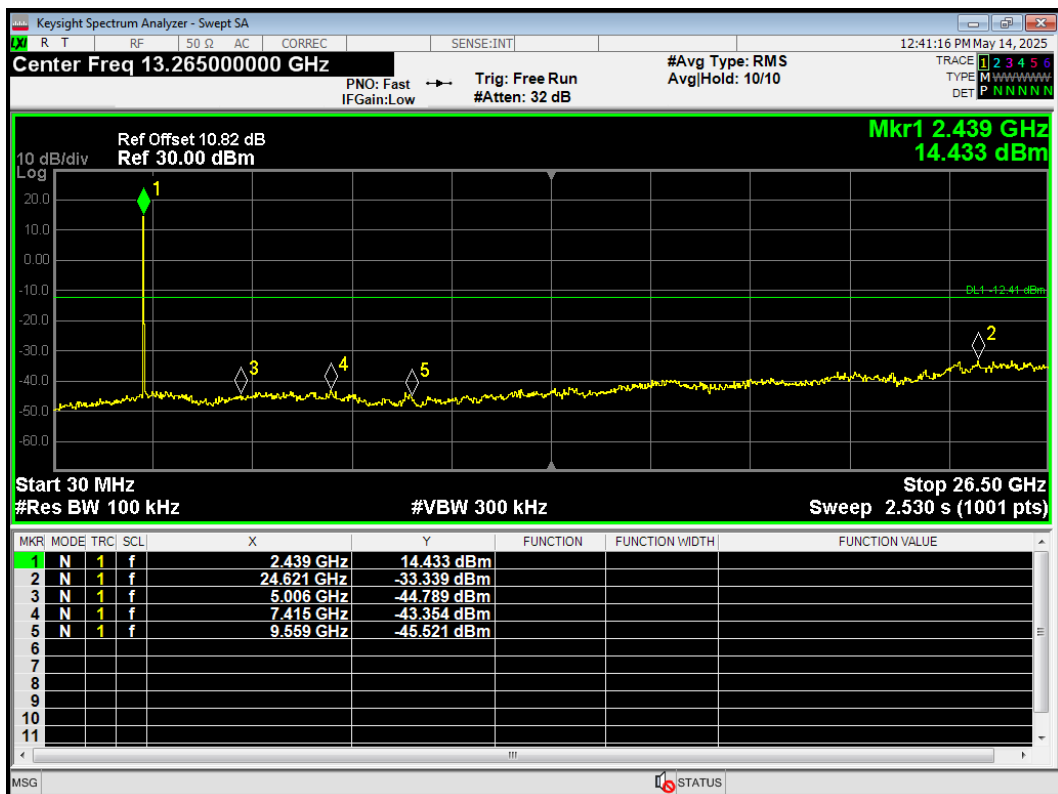
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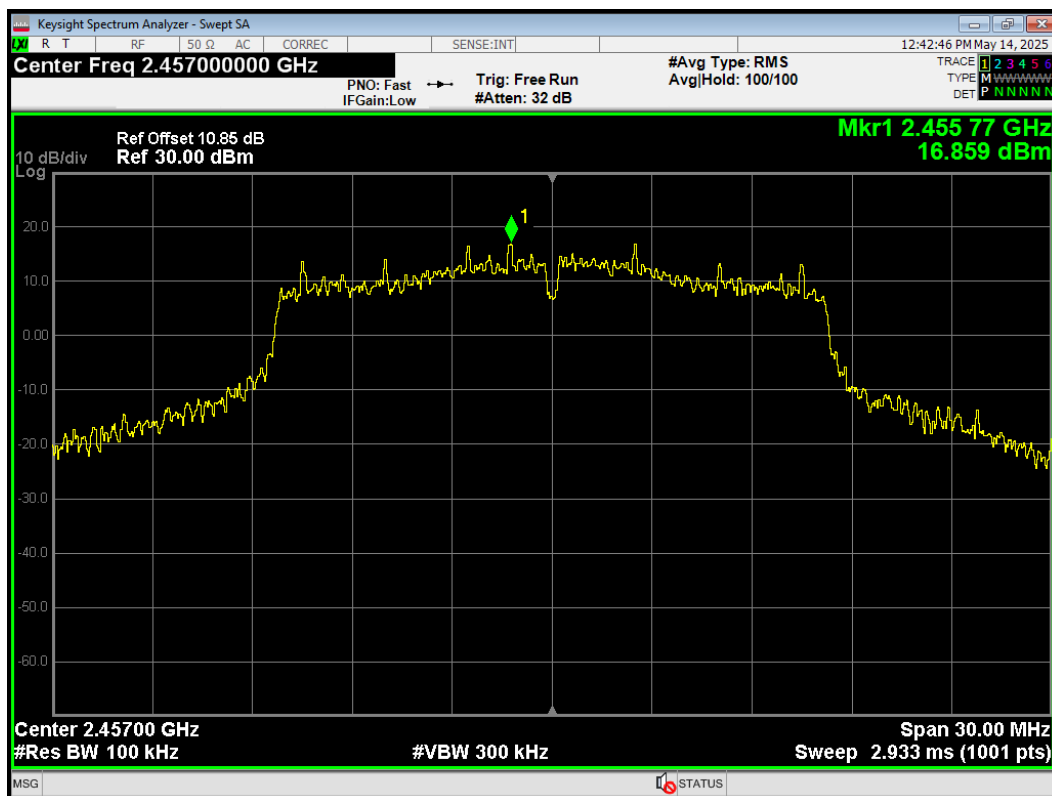
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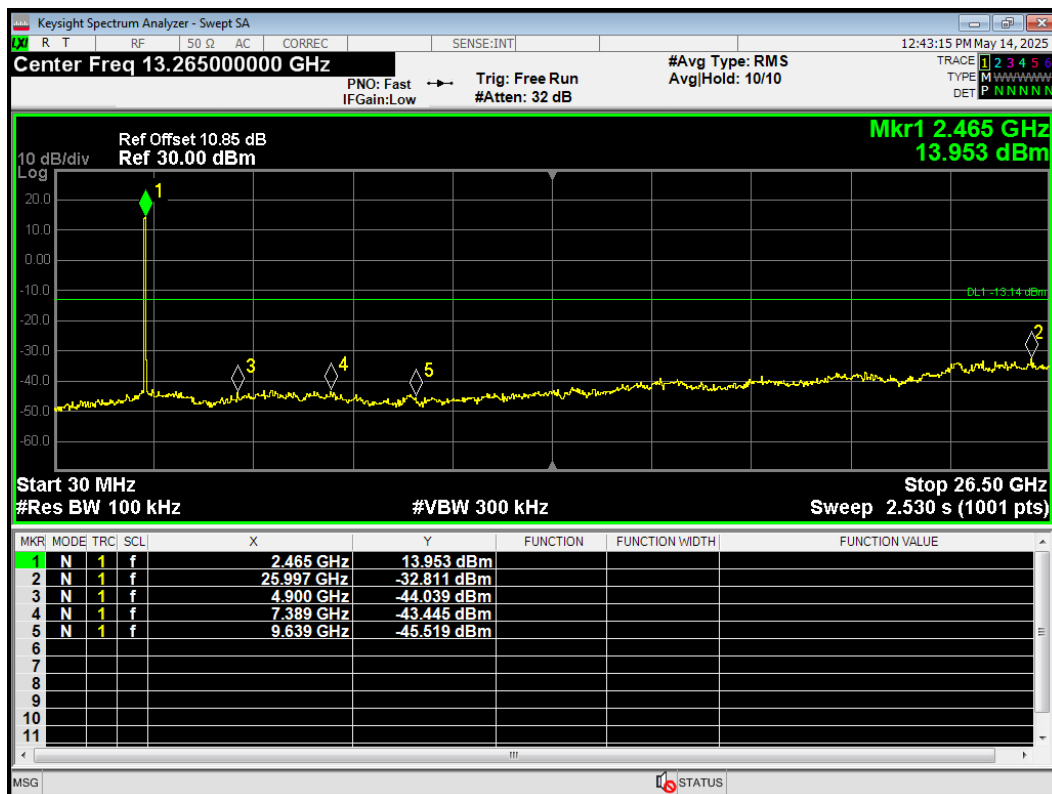
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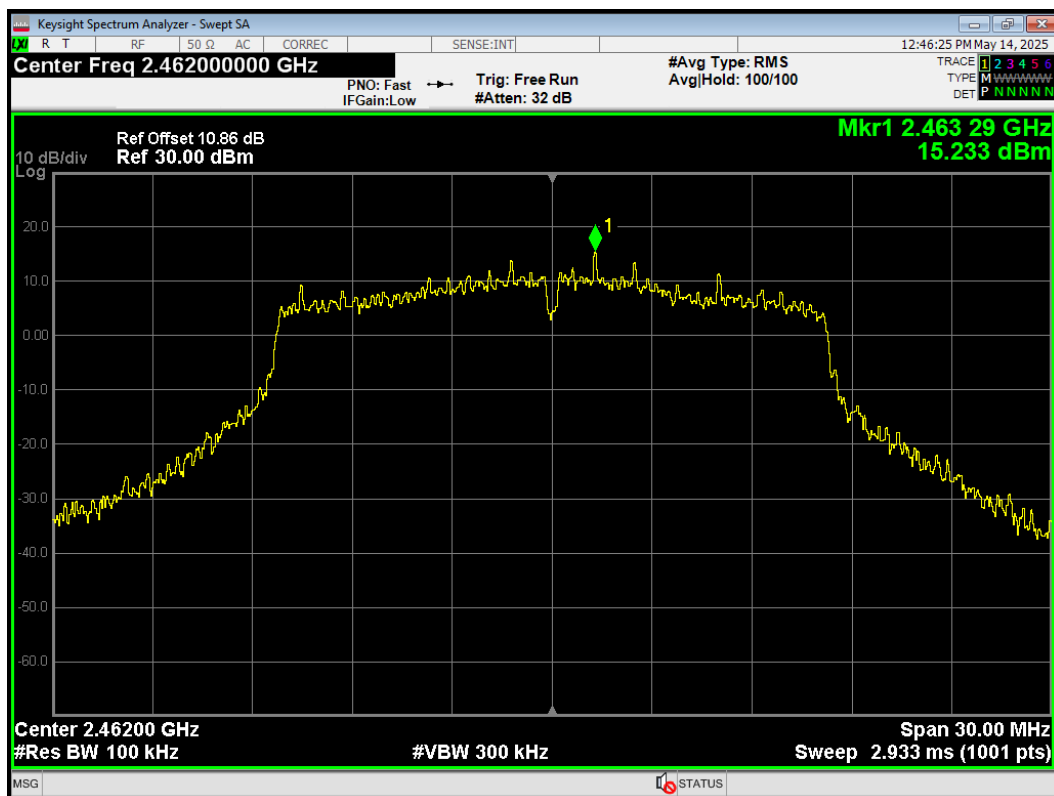
Tx. Spurious 802.11g 2457MHz Ref



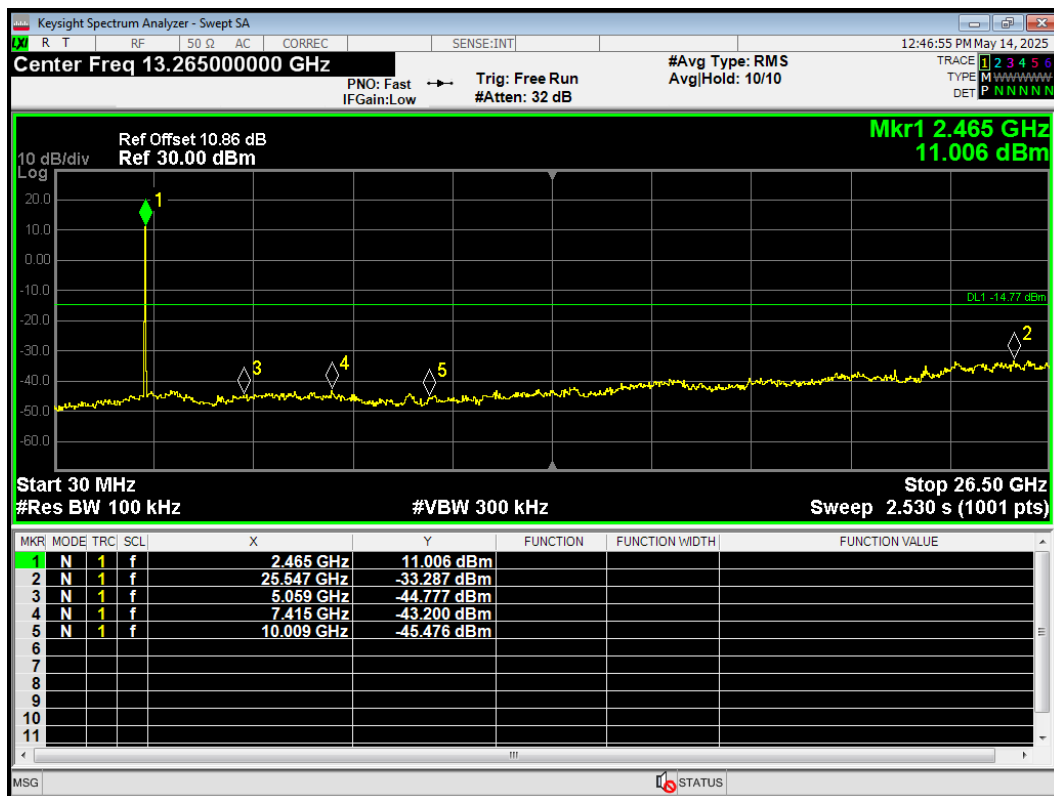
Tx. Spurious 802.11g 2457MHz Emission



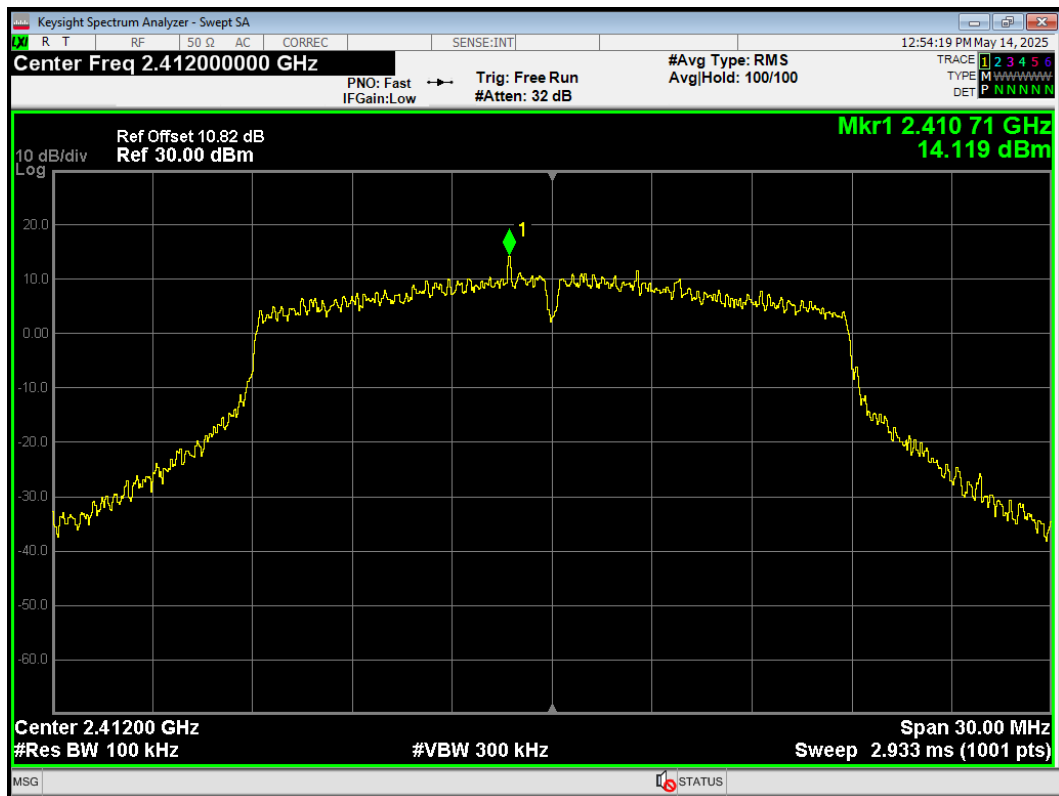
Tx. Spurious 802.11g 2462MHz Ref



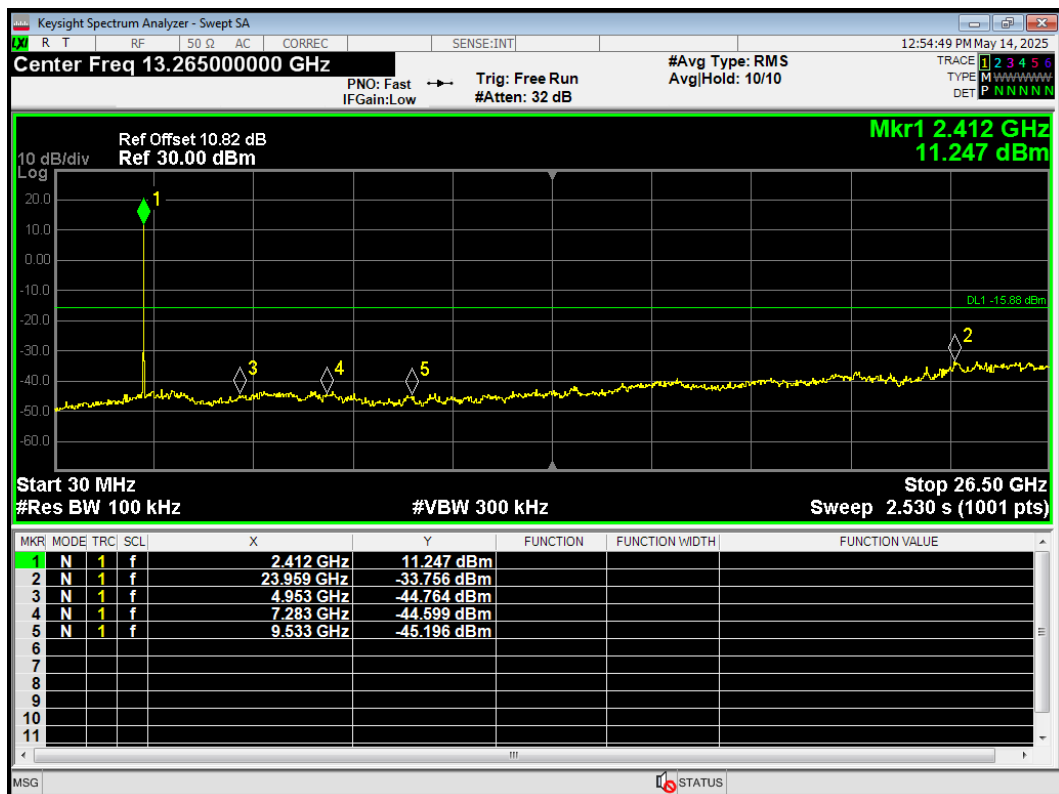
Tx. Spurious 802.11g 2462MHz Emission



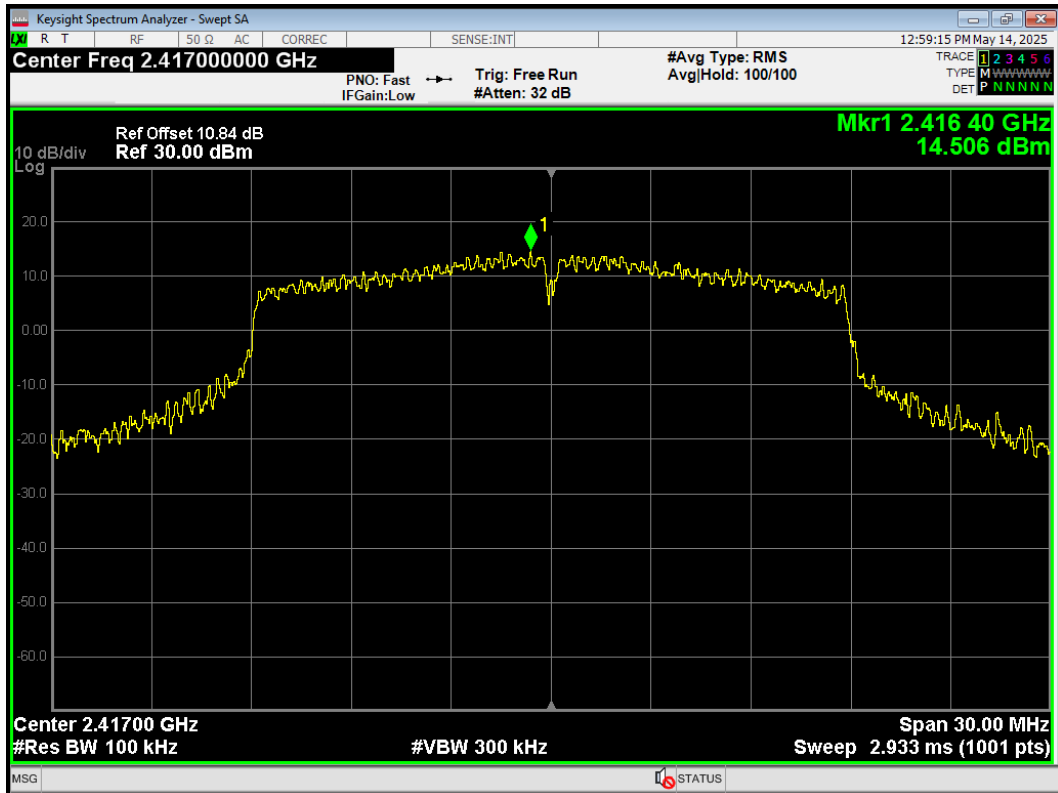
Tx. Spurious 802.11n(HT20) 2412MHz Ref



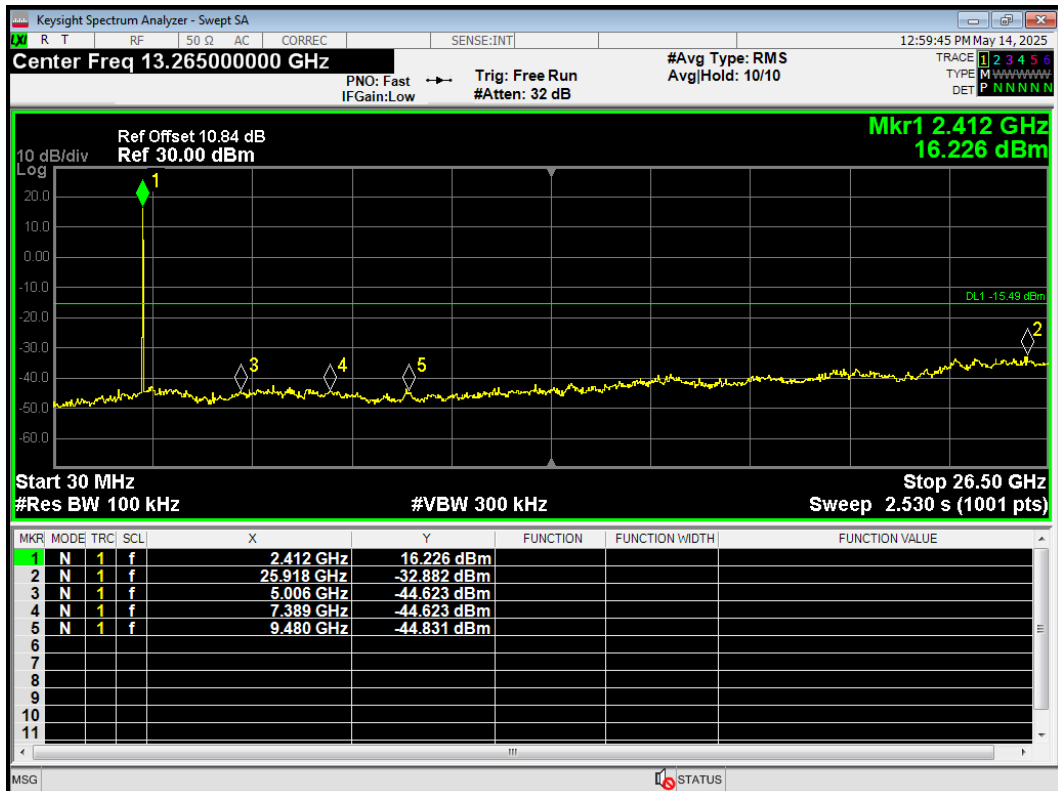
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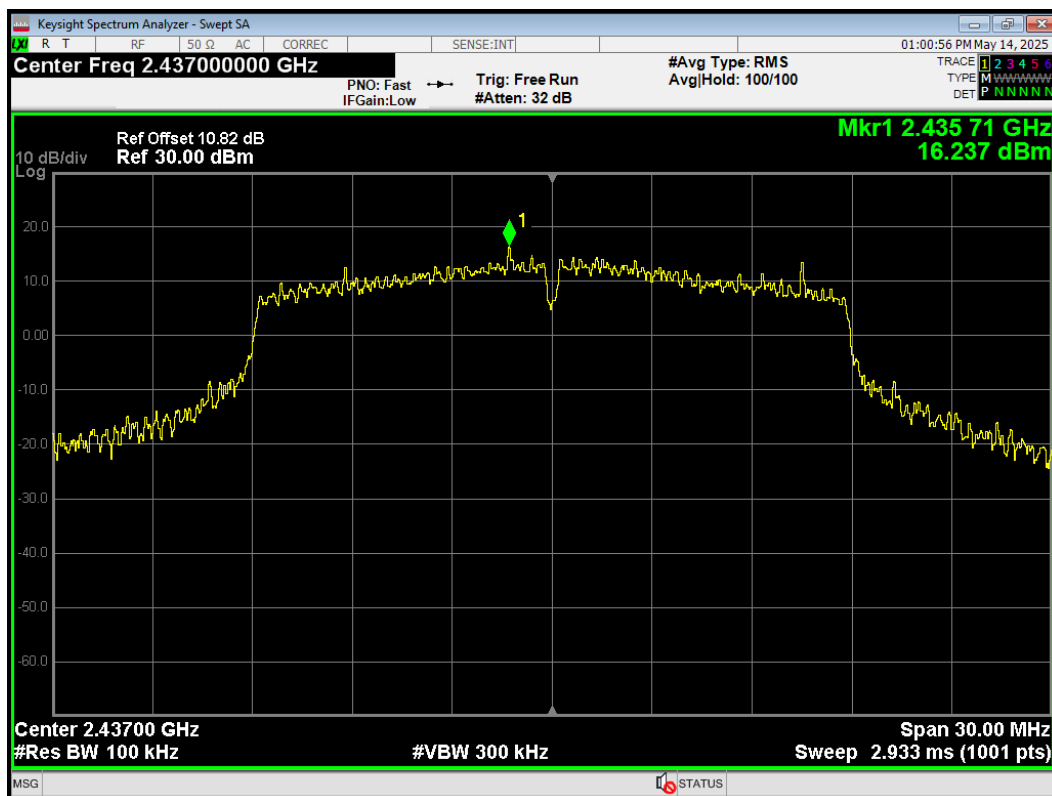
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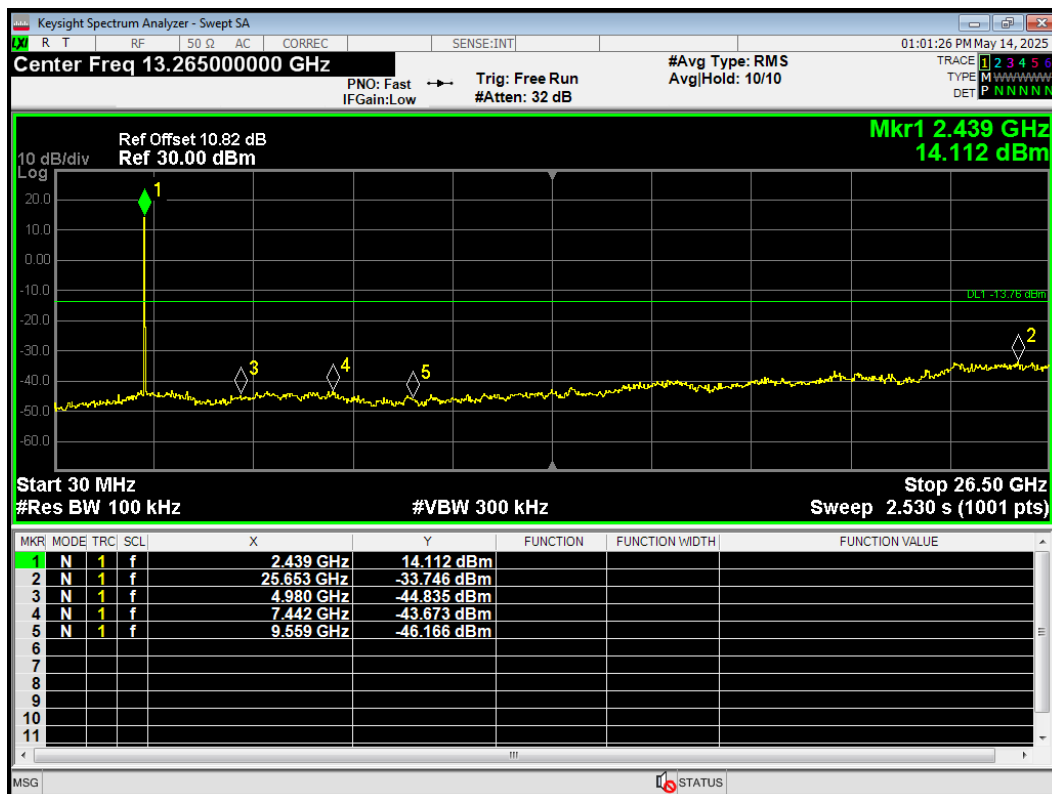
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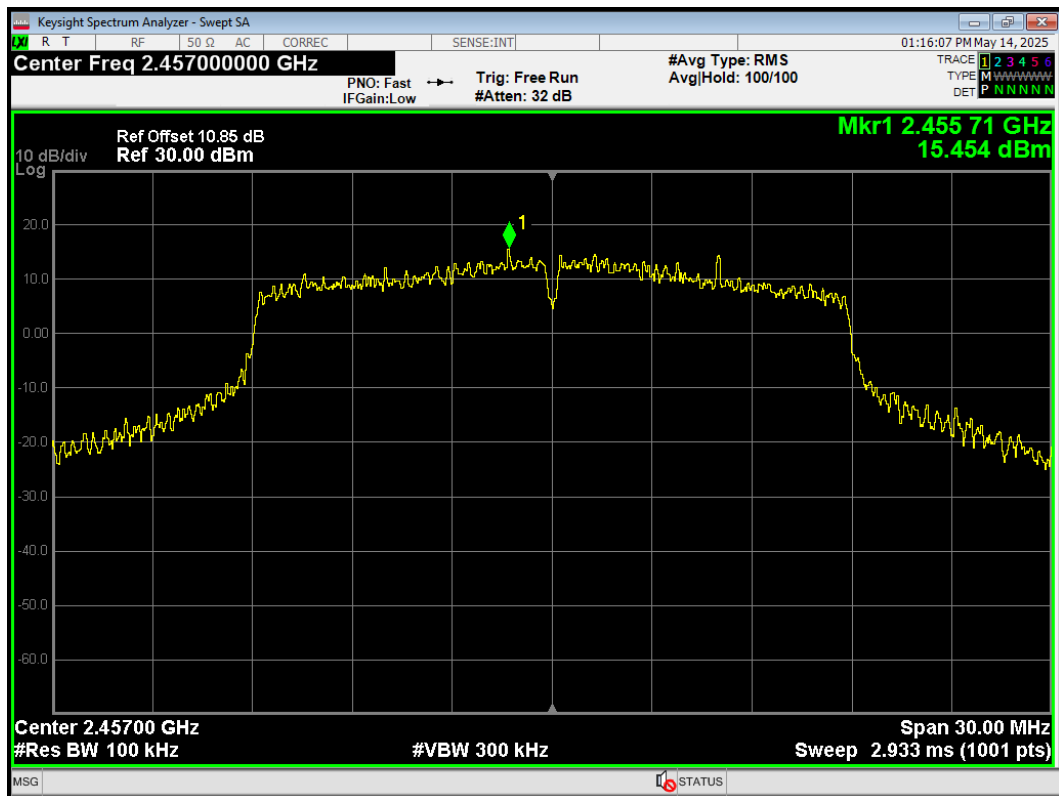
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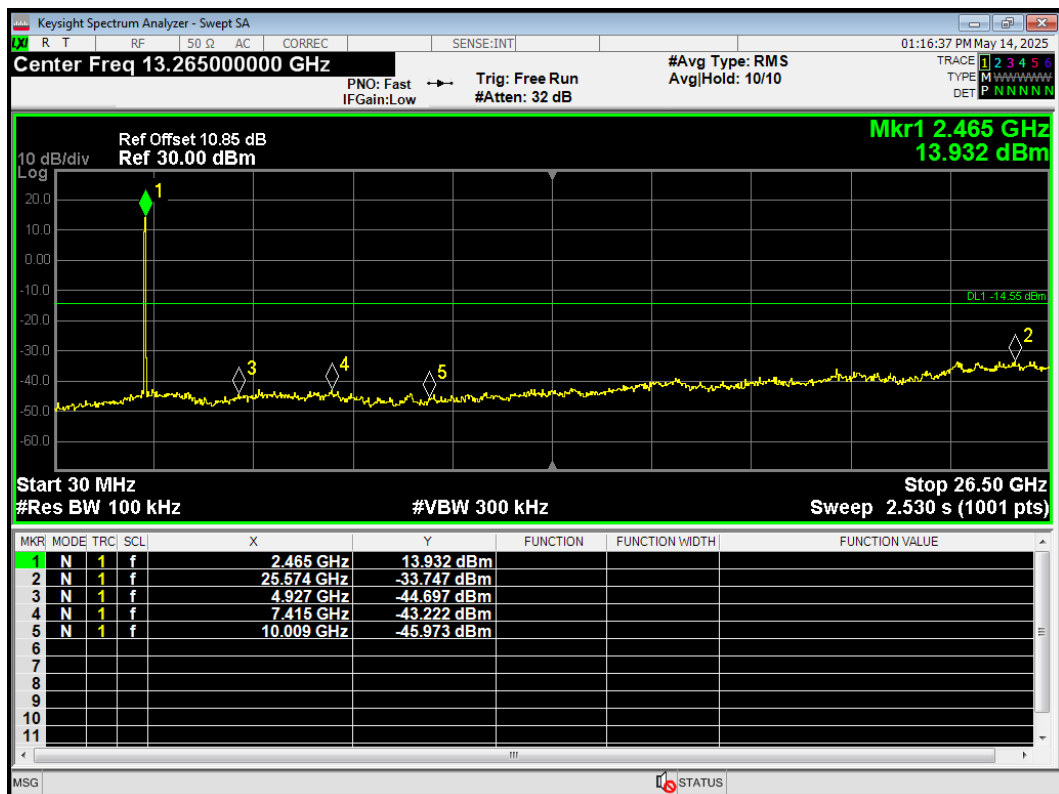
Tx. Spurious 802.11n(HT20) 2437MHz Emission



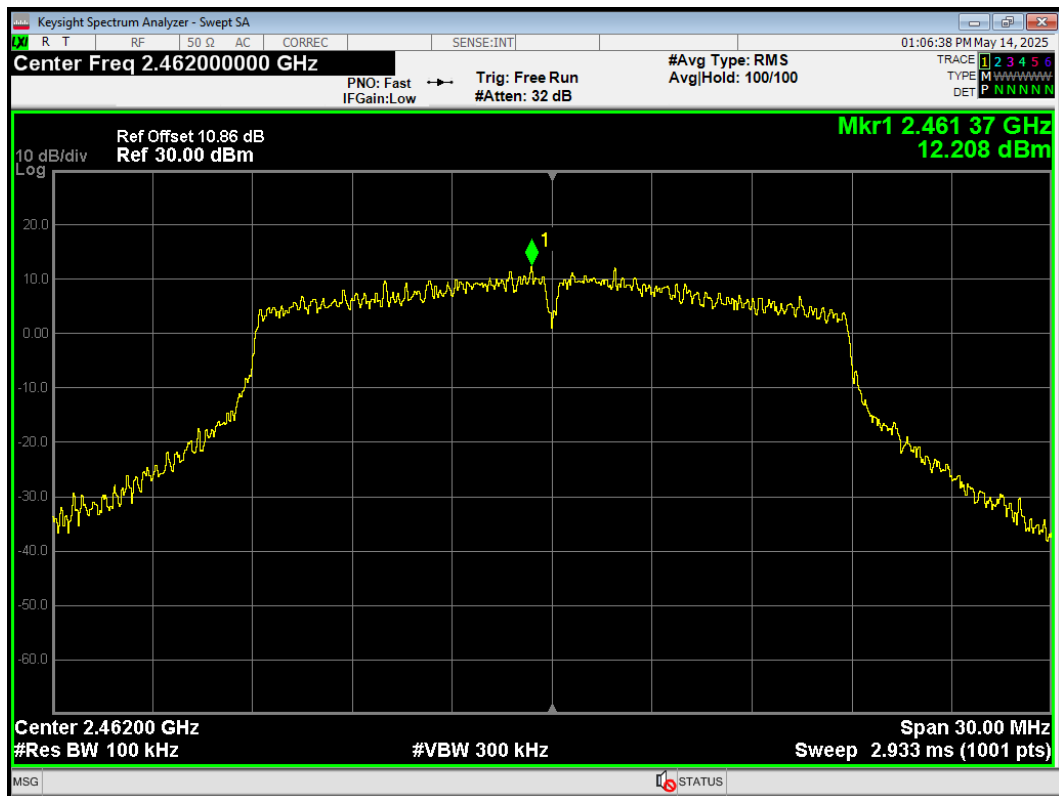
Tx. Spurious 802.11n(HT20) 2457MHz Ref



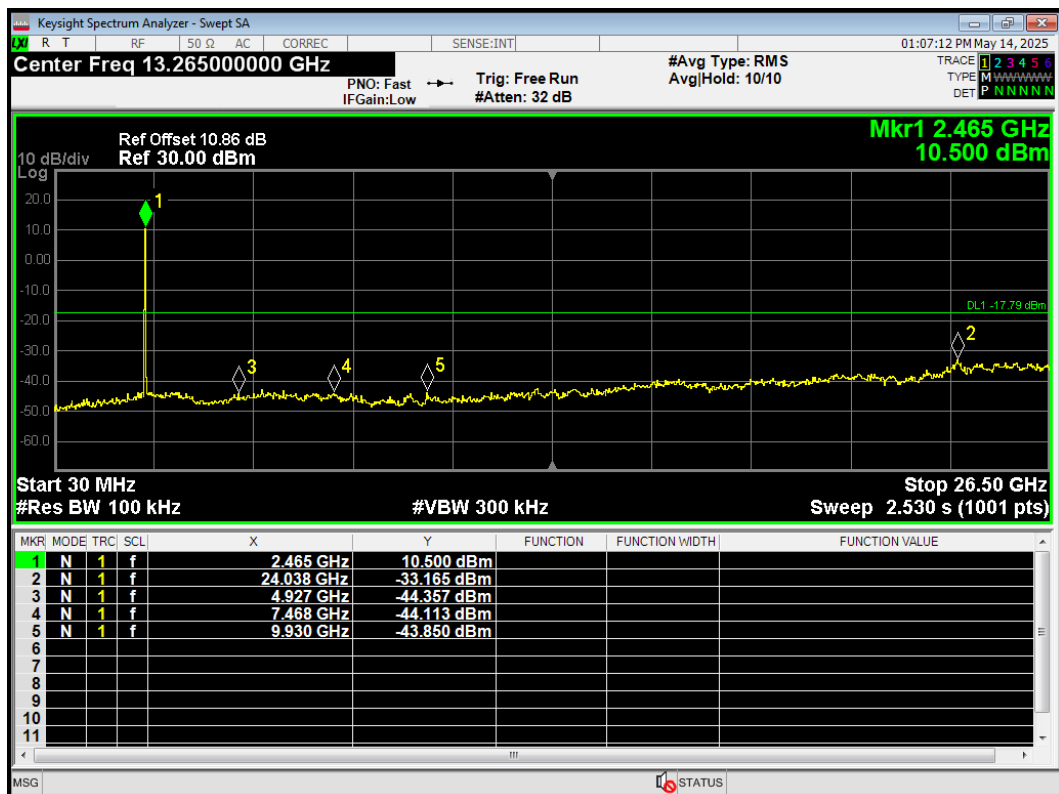
Tx. Spurious 802.11n(HT20) 2457MHz Emission



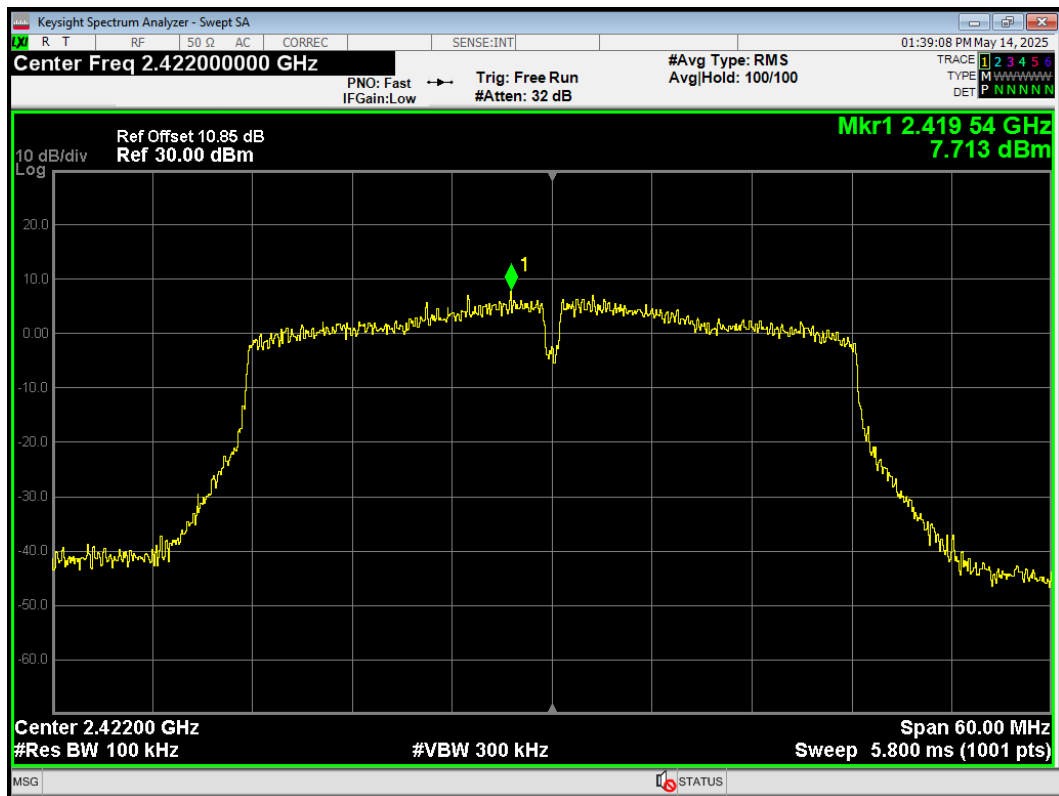
Tx. Spurious 802.11n(HT20) 2462MHz Ref



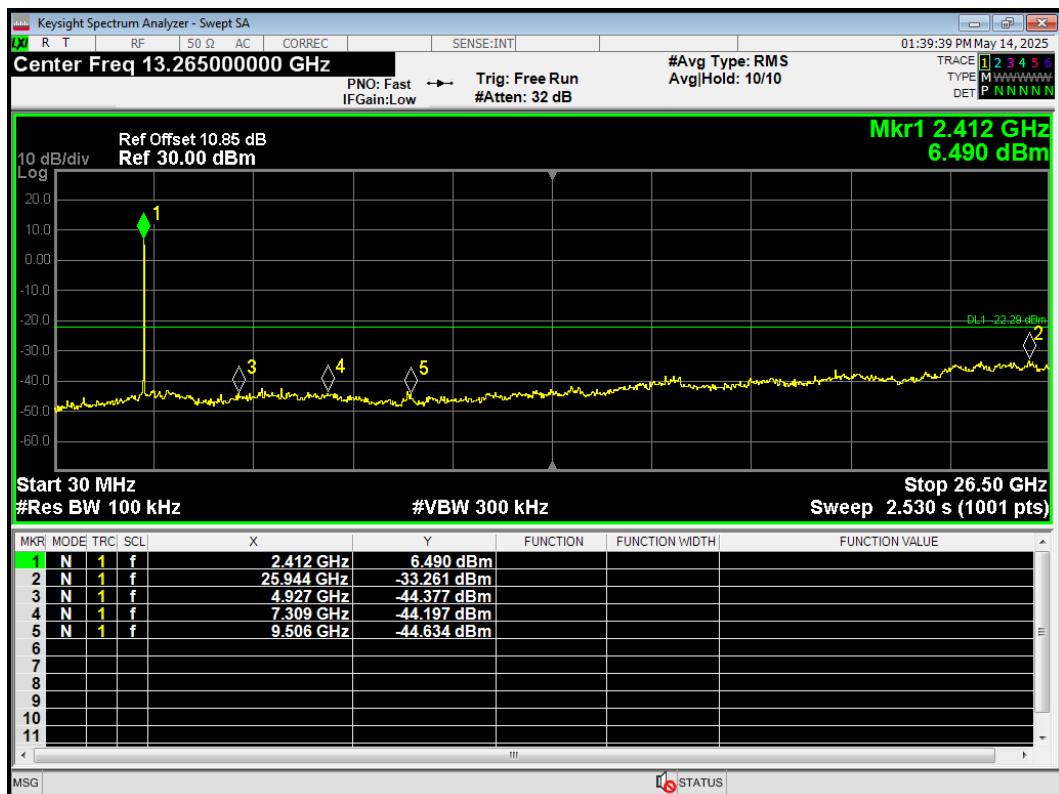
Tx. Spurious 802.11n(HT20) 2462MHz Emission



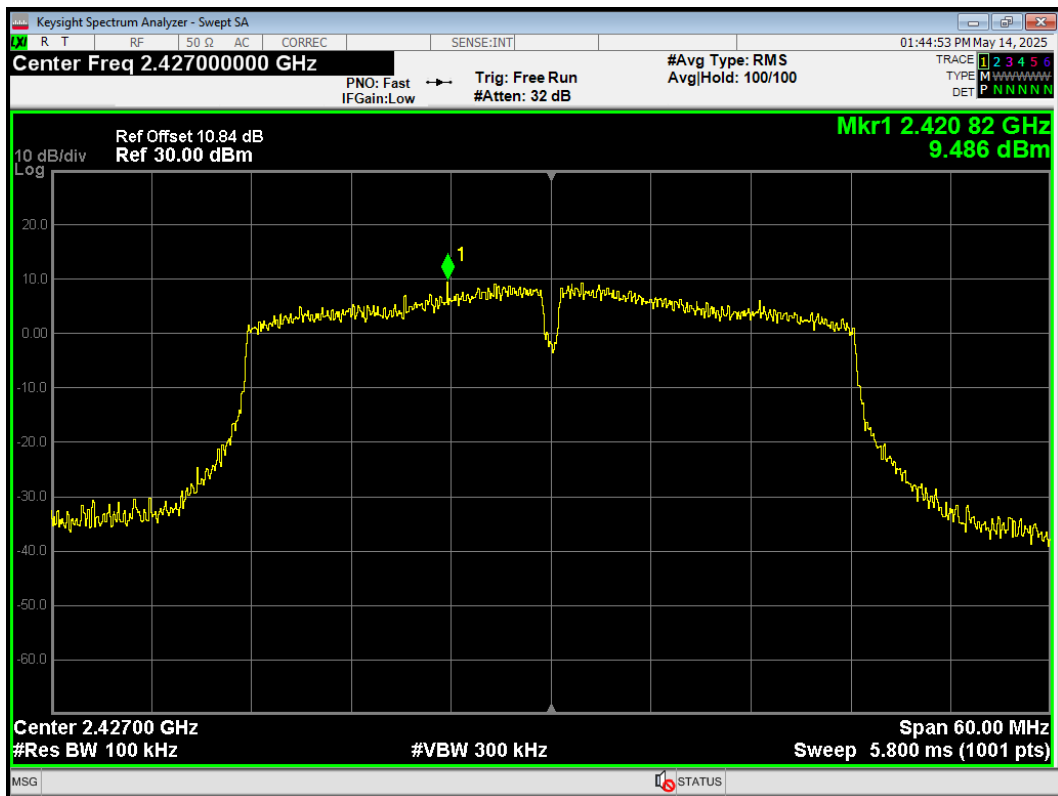
Tx. Spurious 802.11n(HT40) 2422MHz Ref



Tx. Spurious 802.11n(HT40) 2422MHz Emission



Tx. Spurious 802.11n(HT40) 2427MHz Ref



Tx. Spurious 802.11n(HT40) 2427MHz Emission

