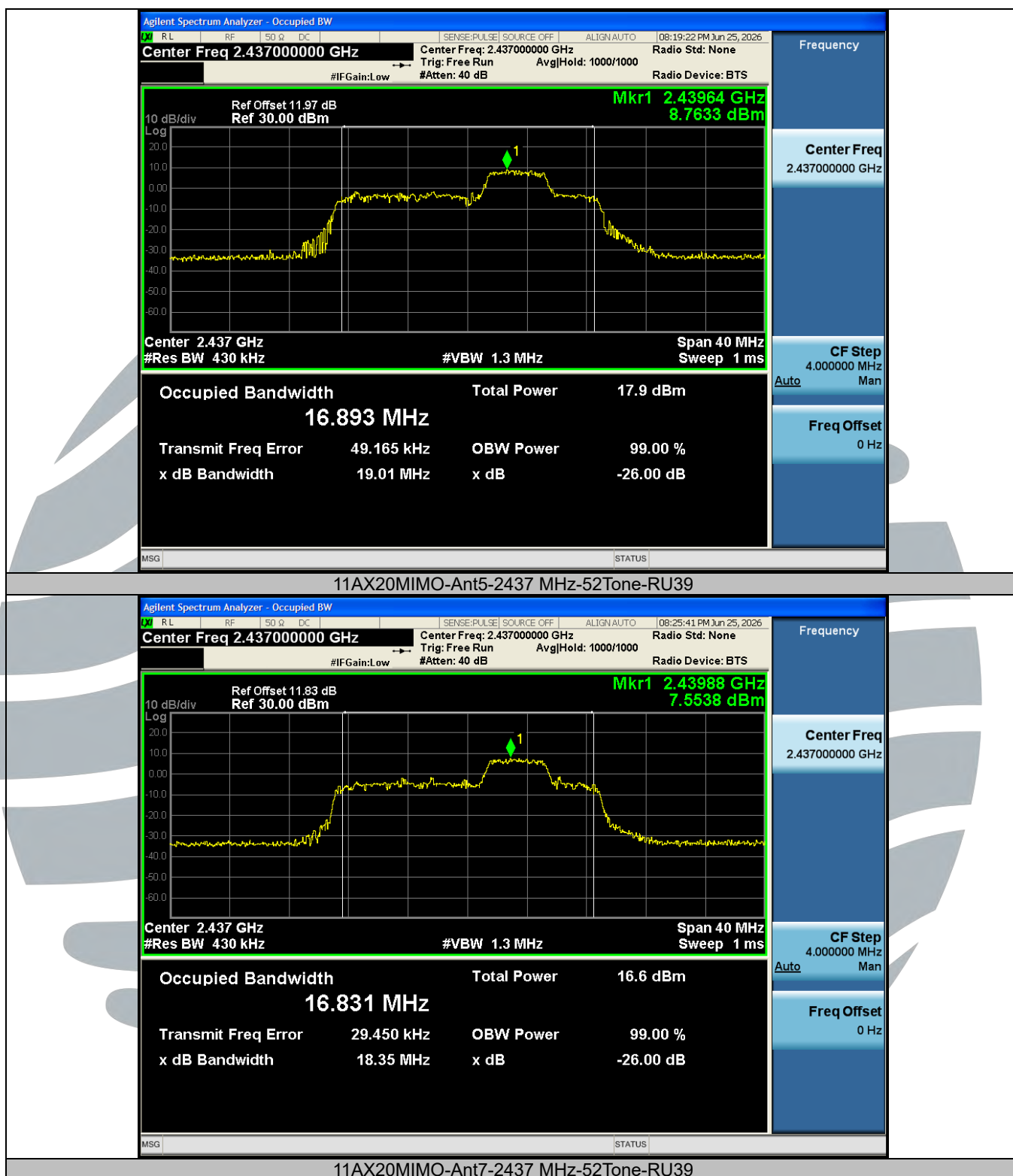




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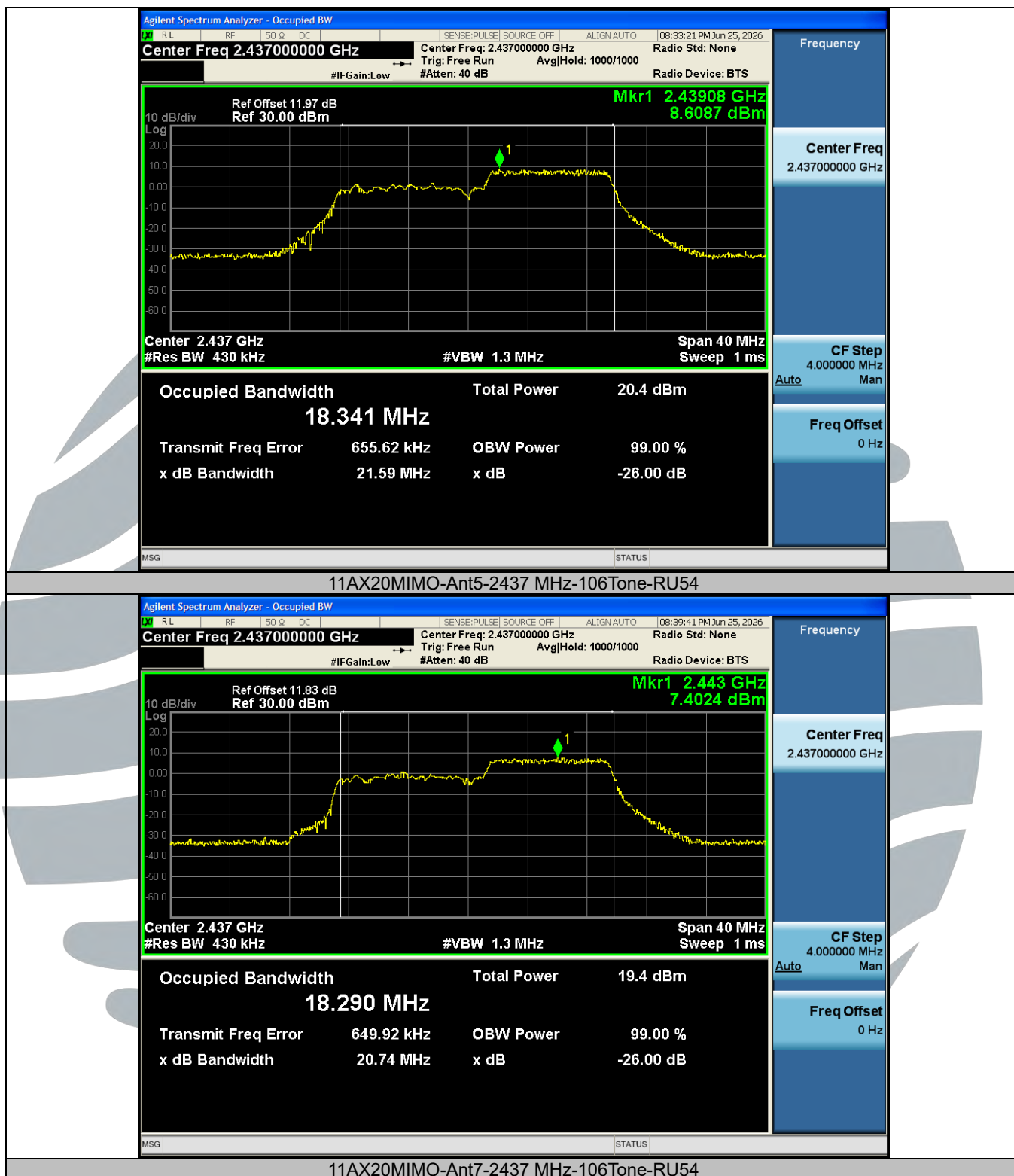
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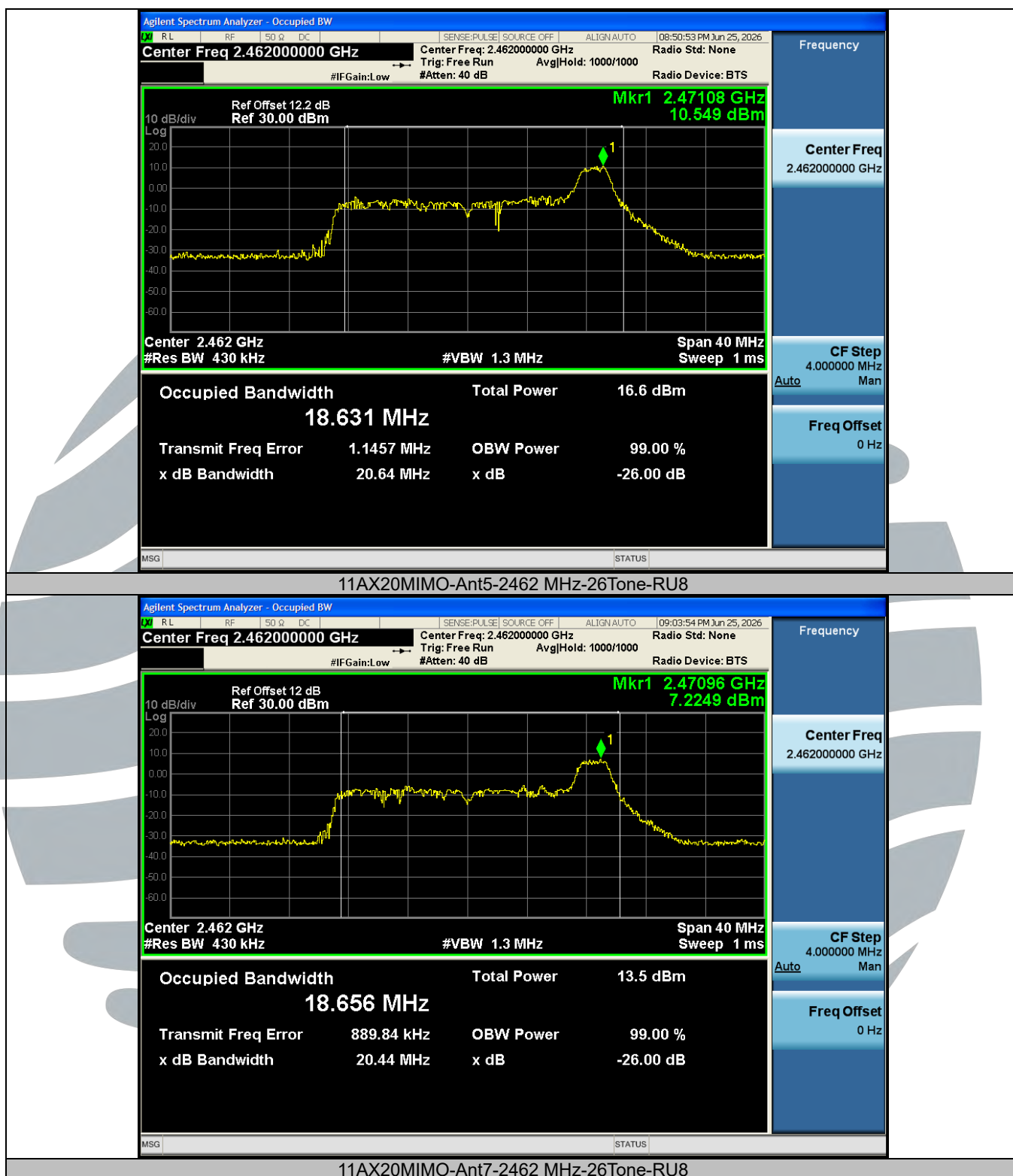
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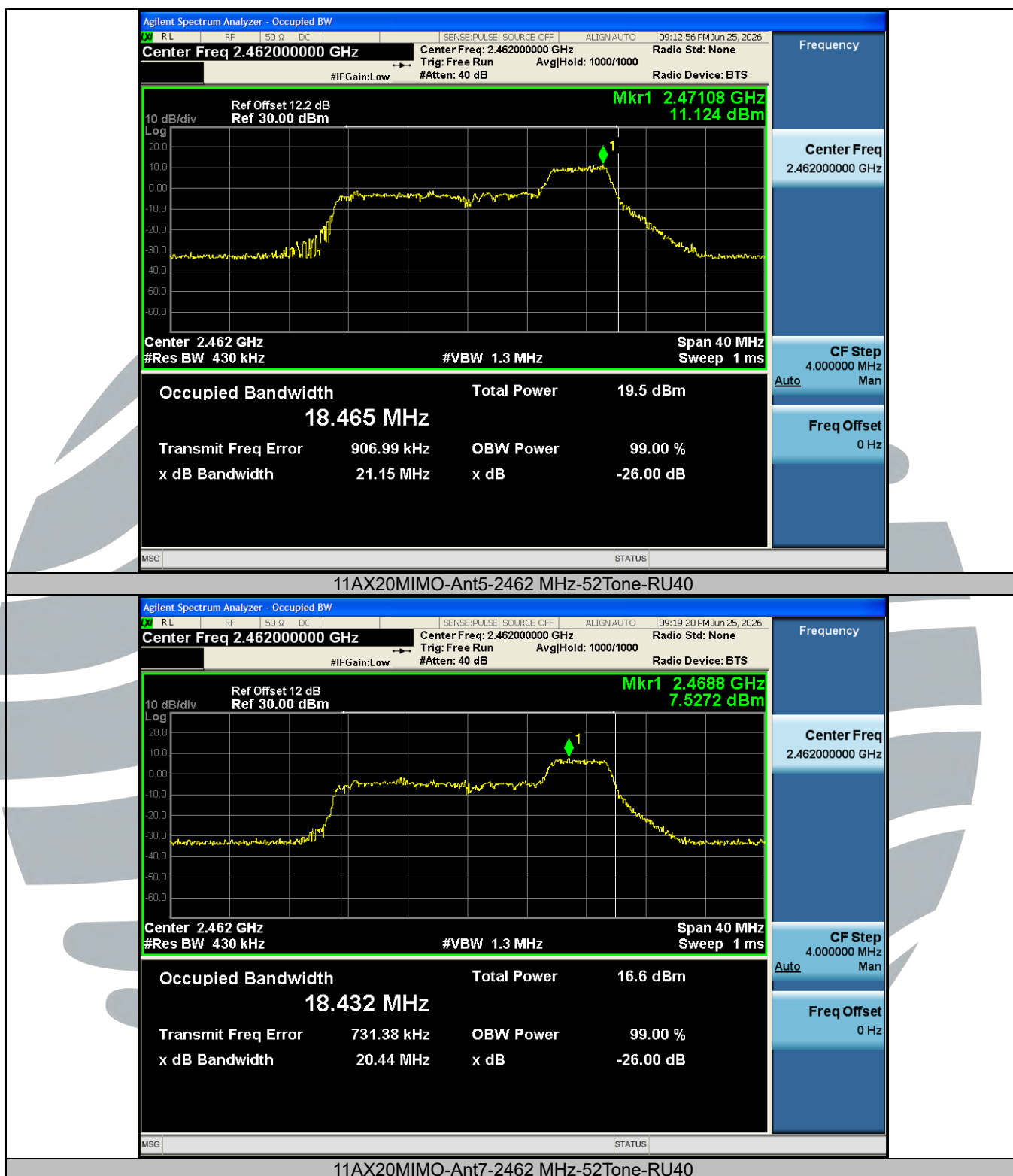
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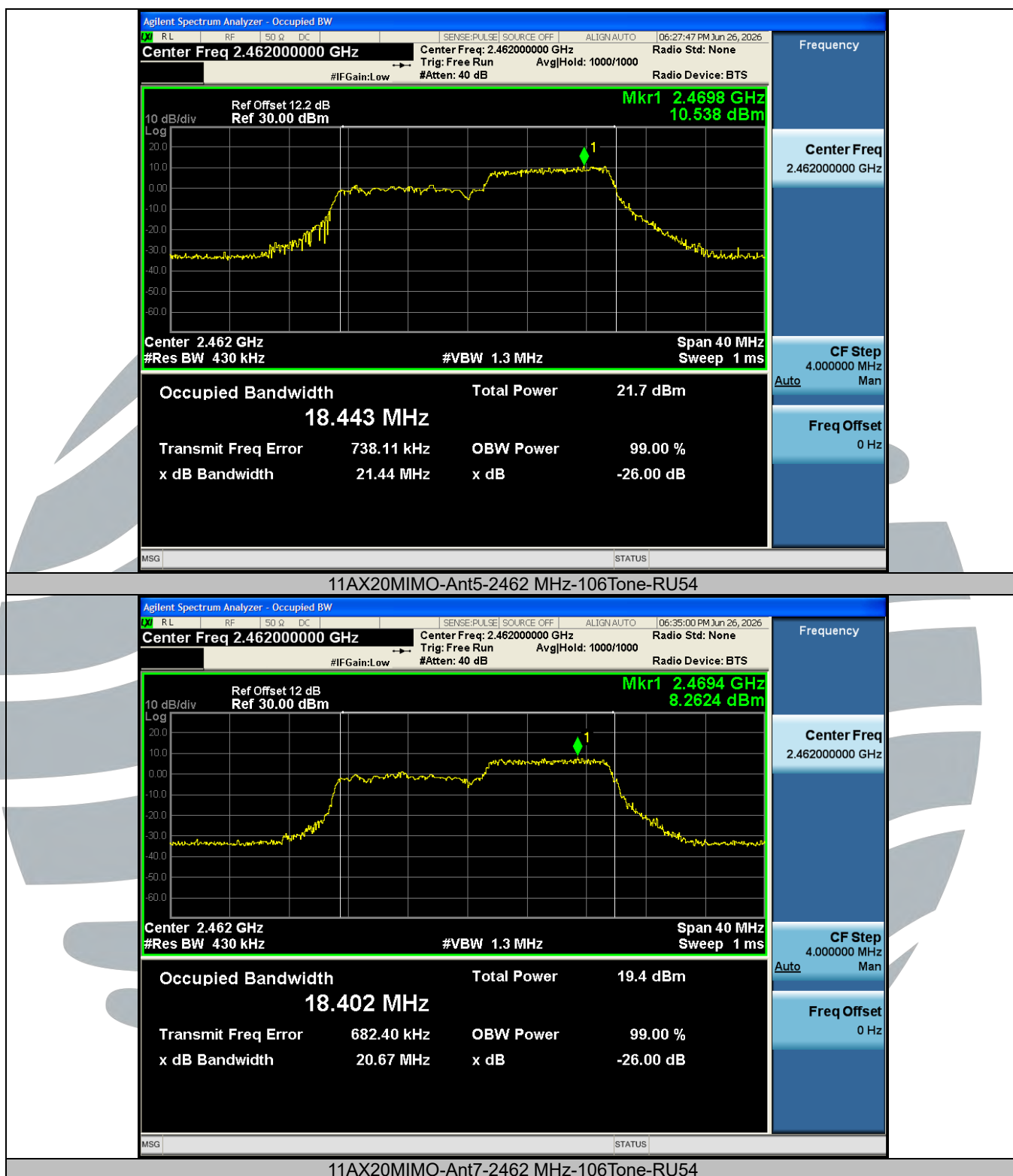
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5.6 POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (e)

Test Method: ANSI C63.10-2020 Clause 11.10.2

Limit: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

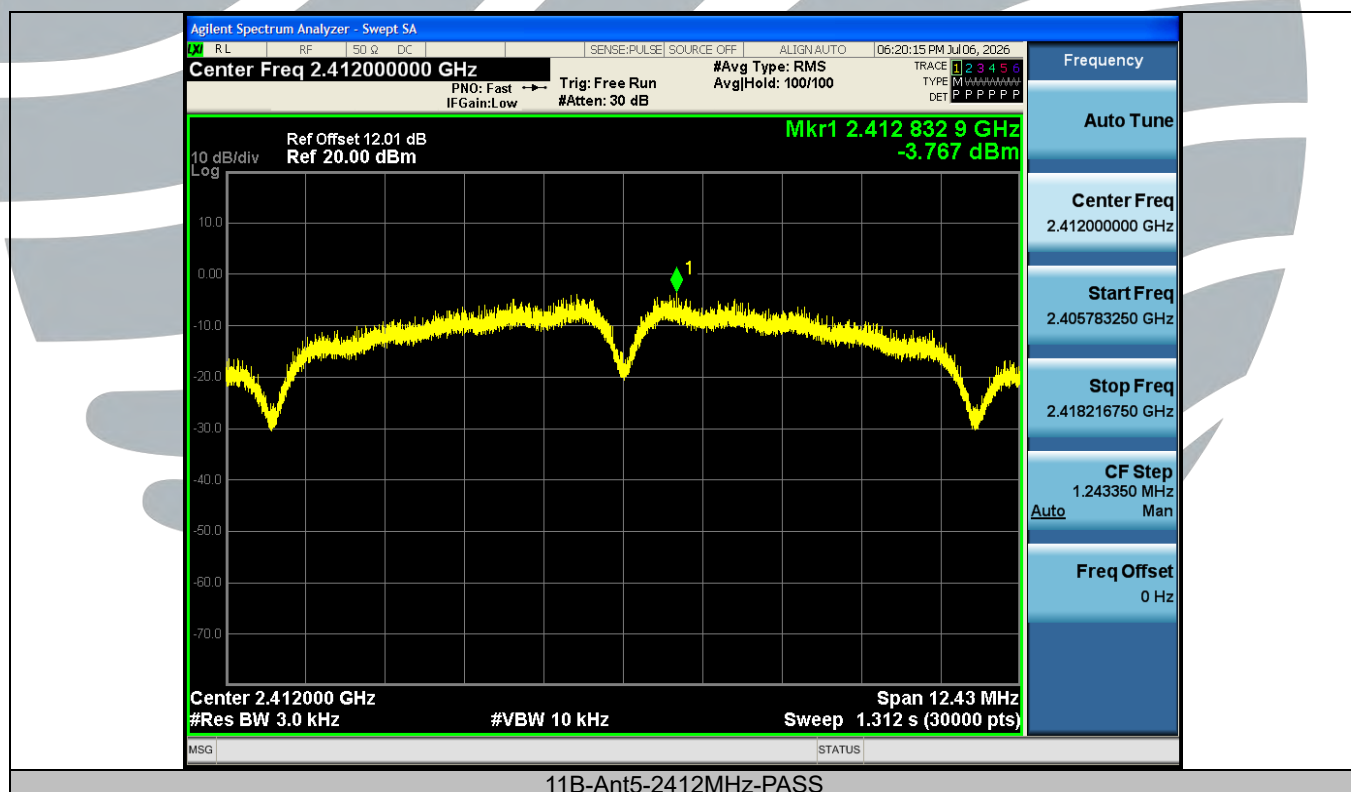
Test Mode: Tx mode

Test Results:

Frequency (MHz)	Antenna Gain (dBi)		Correlated Directional gain (dBi)	PSD Limit (dBm/3kHz)
	Ant. 5	Ant. 7		
2412-2462	-1.32	-3.01	0.89	8

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:
If transmit signals are correlated, then
Directional gain = $10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

Test Mode	Ru&Index	Frequency [MHz]	PSD Result [dBm/3kHz]			Limit [dBm/3kHz]	Verdict
			Ant. 5	Ant. 7	Total		
11B	--	2412	-3.77	-3.42	--	≤8.00	PASS
11B	--	2437	-3.95	-4.99	--	≤8.00	PASS
11B	--	2462	-4.19	-4.38	--	≤8.00	PASS
11G	--	2412	-5.43	-5.56	--	≤8.00	PASS
11G	--	2437	-6.77	-6.58	--	≤8.00	PASS
11G	--	2462	-6.23	-7.09	--	≤8.00	PASS
11N20MIMO	--	2412	-6.97	-11.01	-5.53	≤8.00	PASS
11N20MIMO	--	2437	-9.73	-8.86	-6.26	≤8.00	PASS
11N20MIMO	--	2462	-9.38	-10.02	-6.68	≤8.00	PASS
11AX20MIMO	SU	2412	-8.73	-10.23	-6.41	≤8.00	PASS
11AX20MIMO	SU	2437	-8.40	-11.44	-6.65	≤8.00	PASS
11AX20MIMO	SU	2462	-10.6	-12.77	-8.54	≤8.00	PASS
11AX20MIMO	26ToneRU0	2412	-11.71	-10.79	-8.22	≤8.00	PASS
11AX20MIMO	26ToneRU4	2437	-11.79	-12.98	-9.33	≤8.00	PASS
11AX20MIMO	26ToneRU8	2462	-9.02	-12.27	-7.34	≤8.00	PASS
11AX20MIMO	52ToneRU37	2412	-9.92	-10.05	-6.97	≤8.00	PASS
11AX20MIMO	52ToneRU39	2437	-11.11	-12.03	-8.54	≤8.00	PASS
11AX20MIMO	52ToneRU40	2462	-7.78	-10.89	-6.05	≤8.00	PASS
11AX20MIMO	106ToneRU53	2412	-10.32	-10.49	-7.39	≤8.00	PASS
11AX20MIMO	106ToneRU54	2437	-11.16	-12.34	-8.70	≤8.00	PASS
11AX20MIMO	106ToneRU54	2462	-9.22	-12.68	-7.60	≤8.00	PASS



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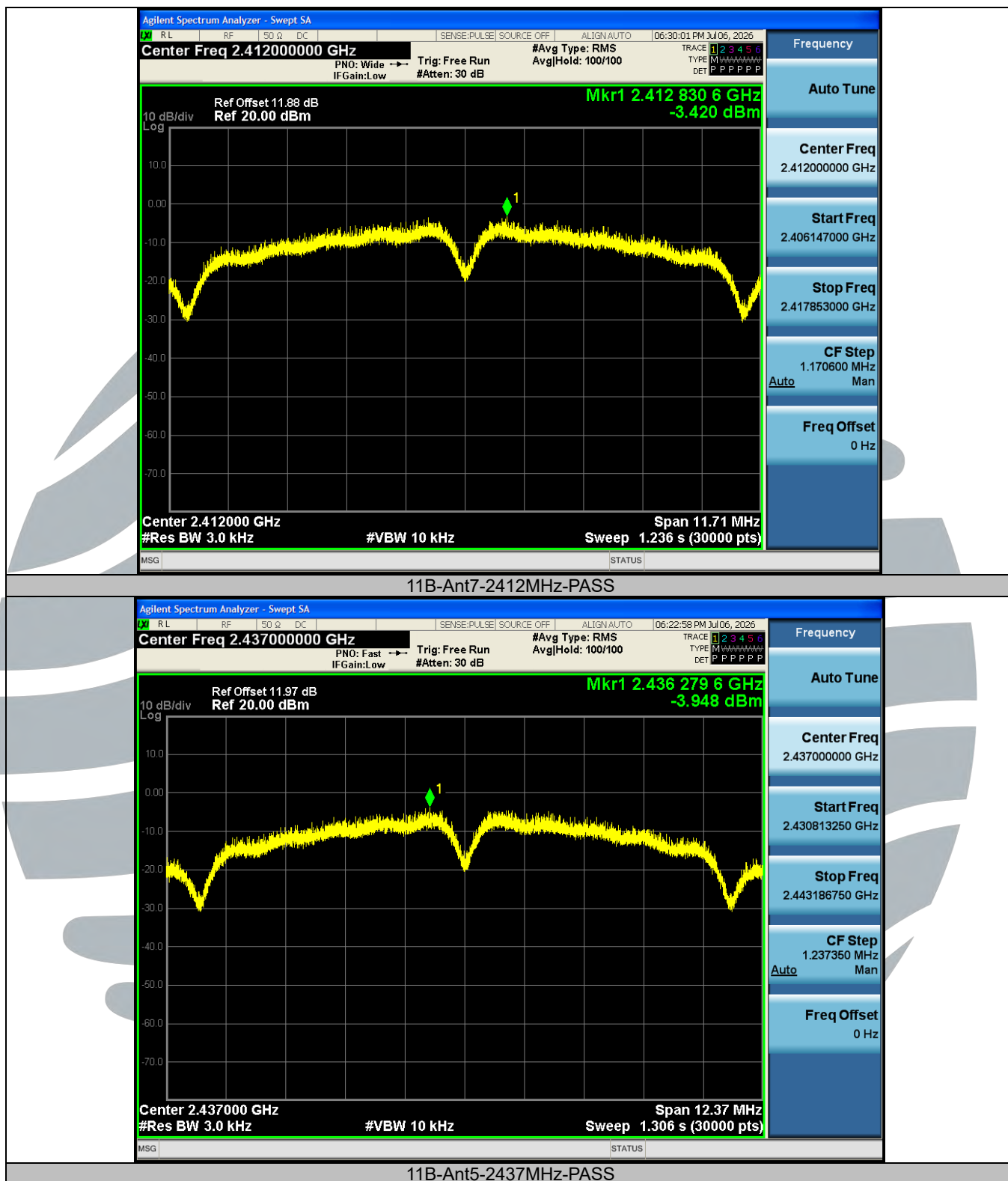
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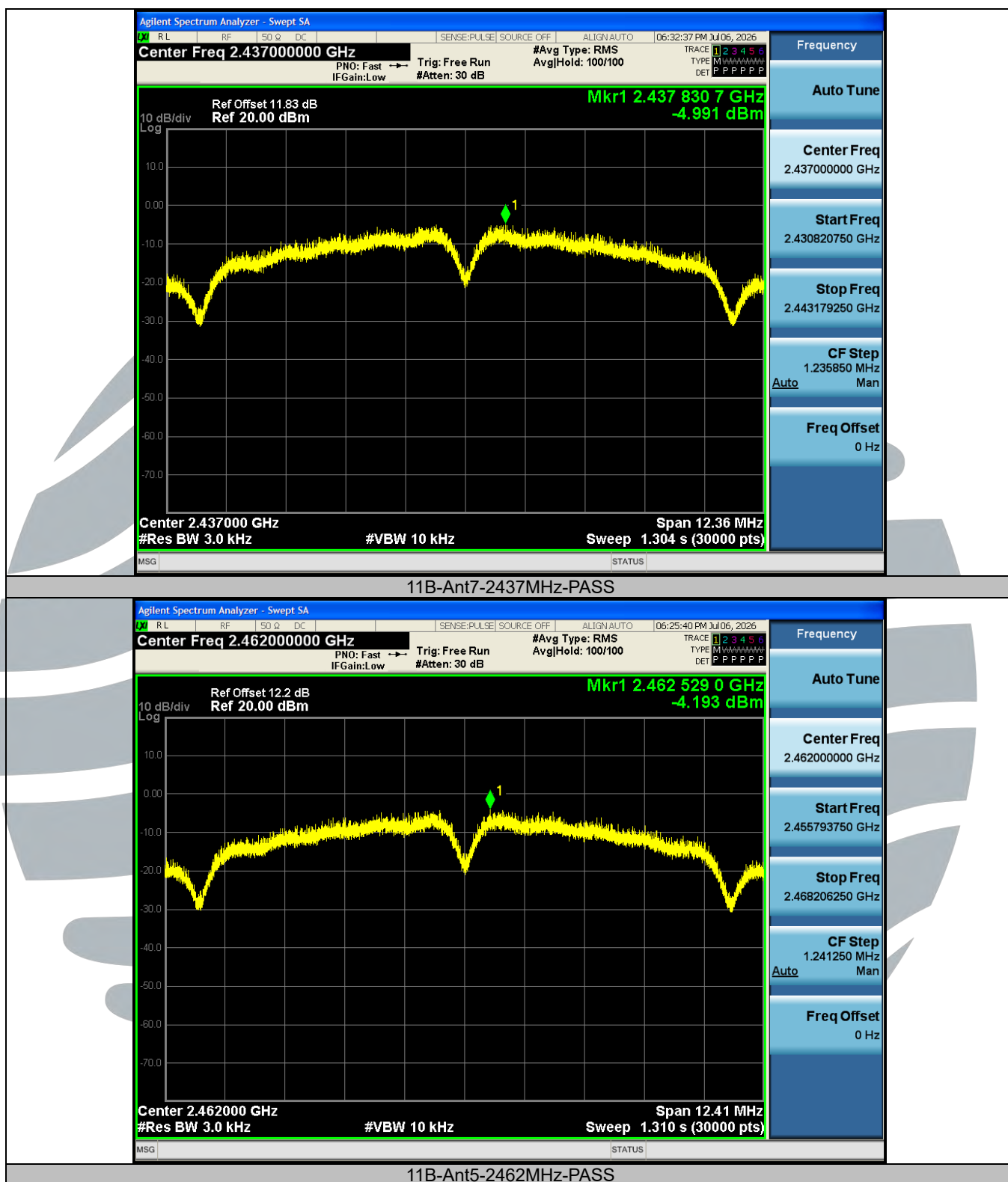
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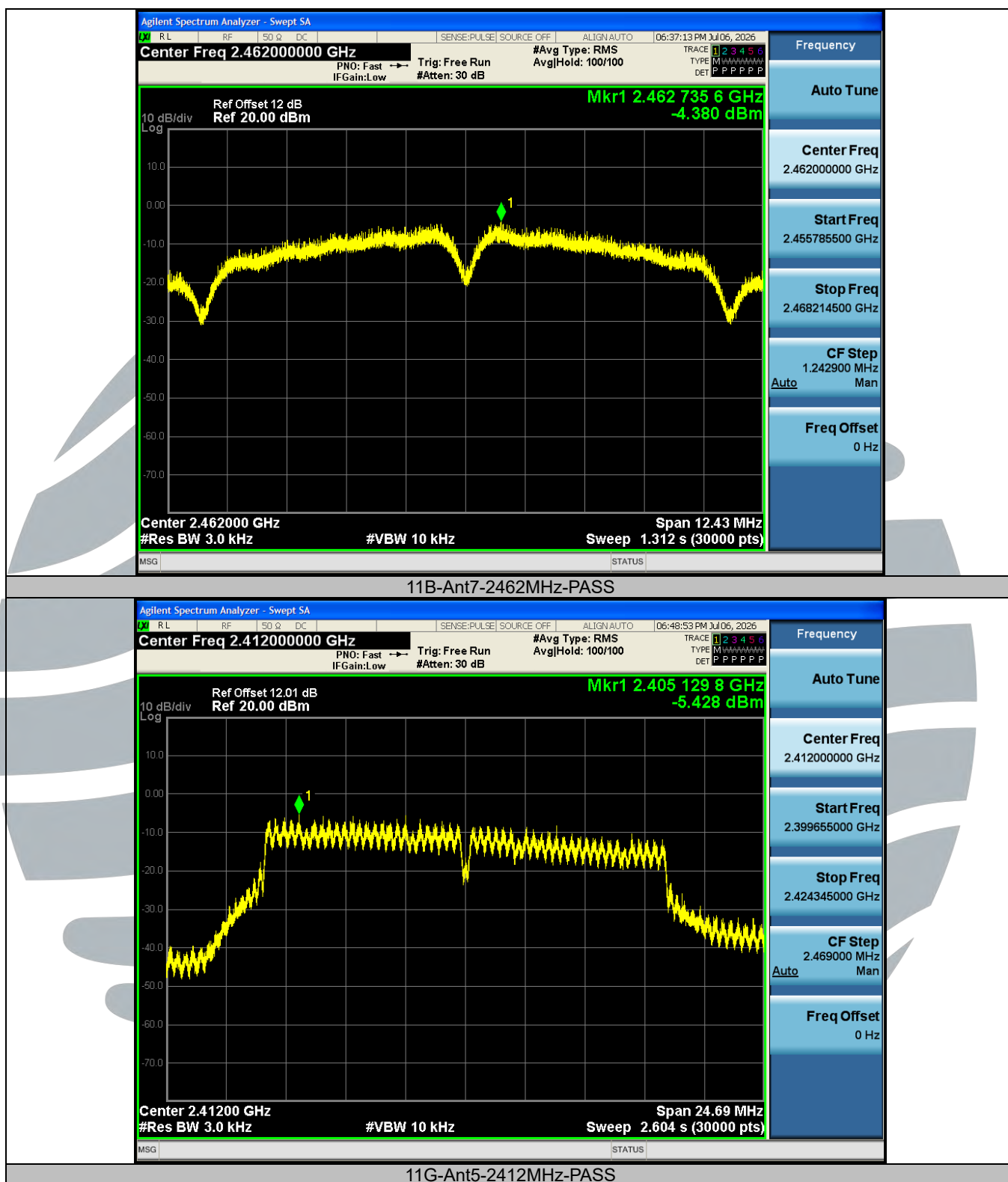
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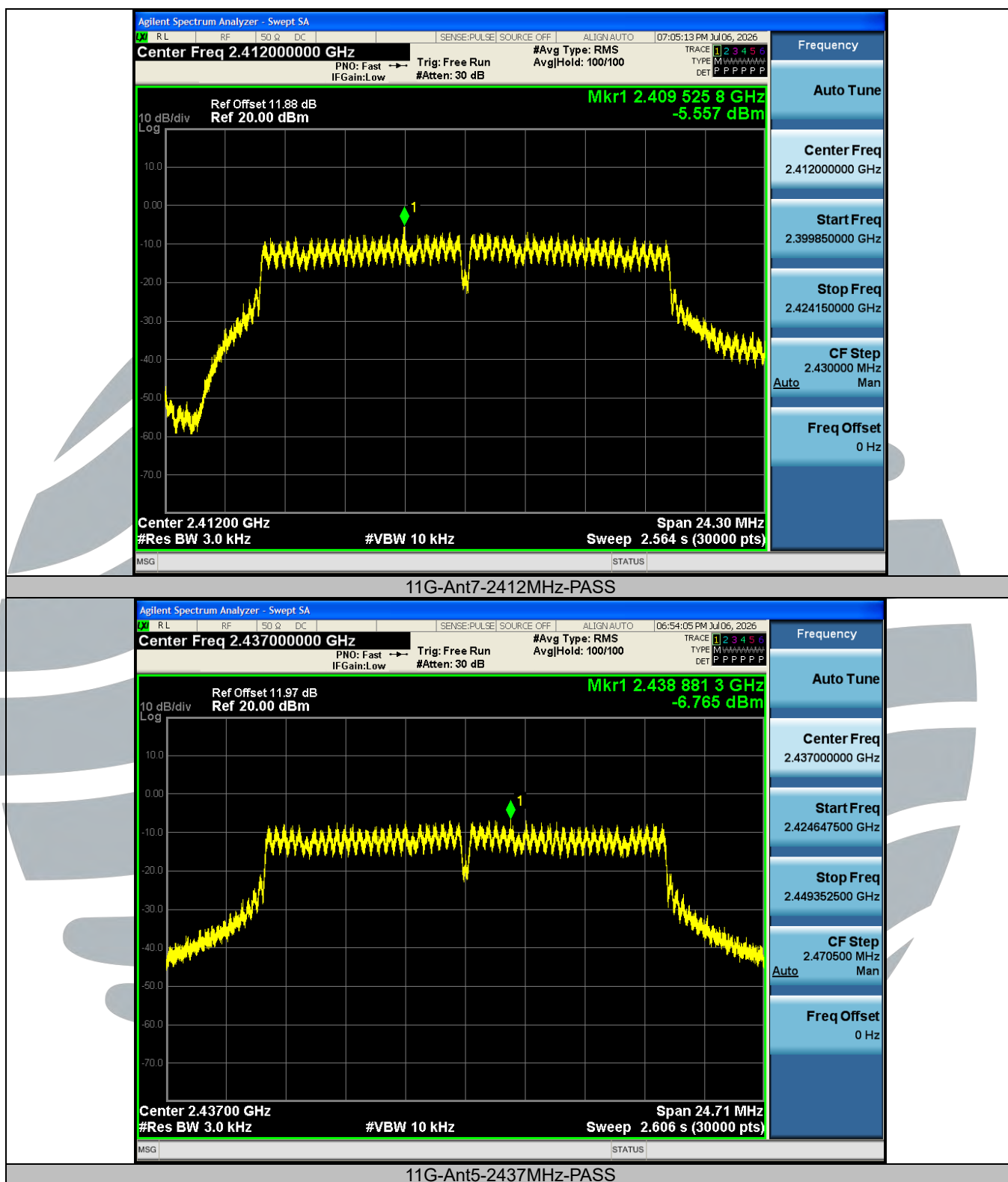
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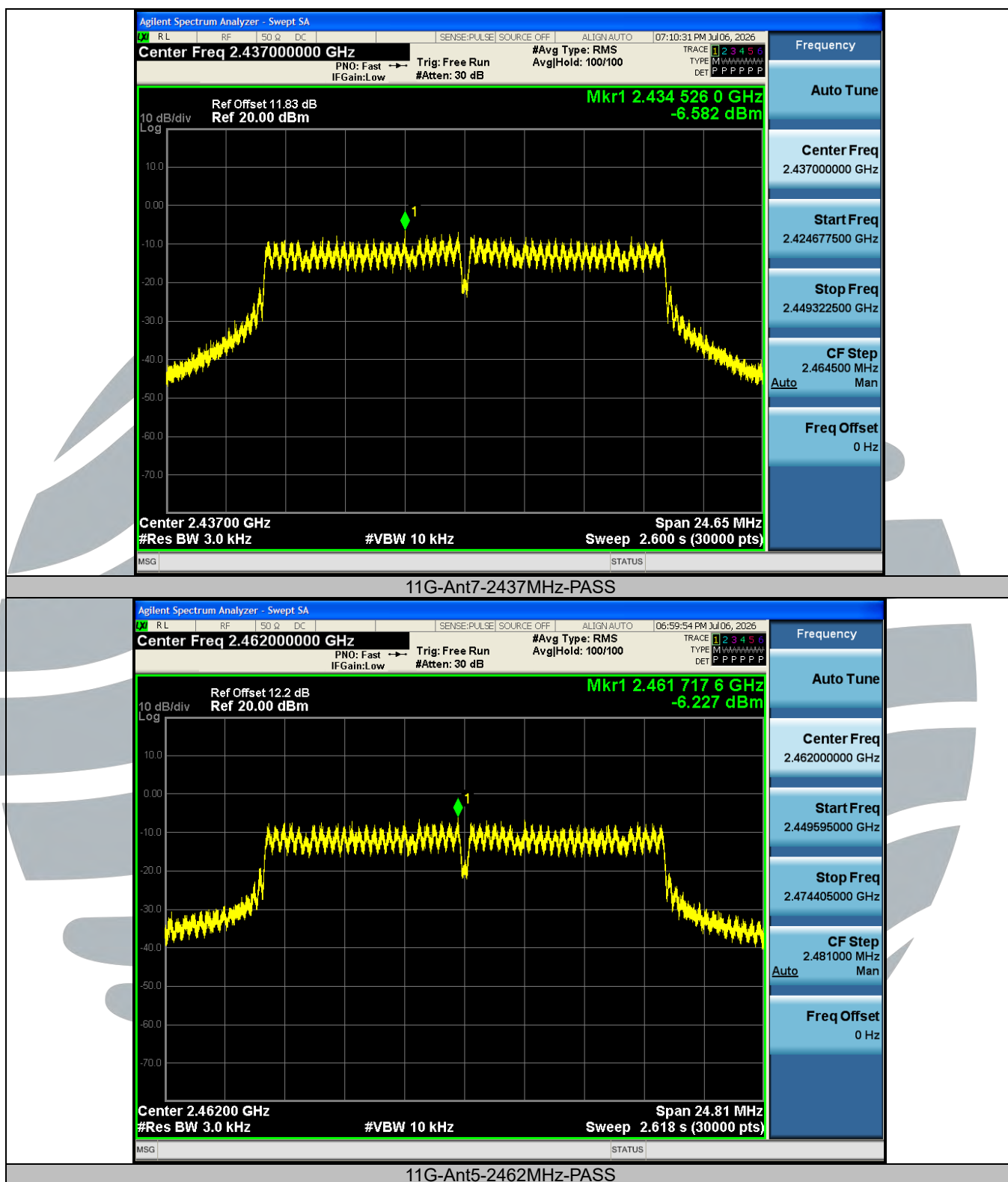
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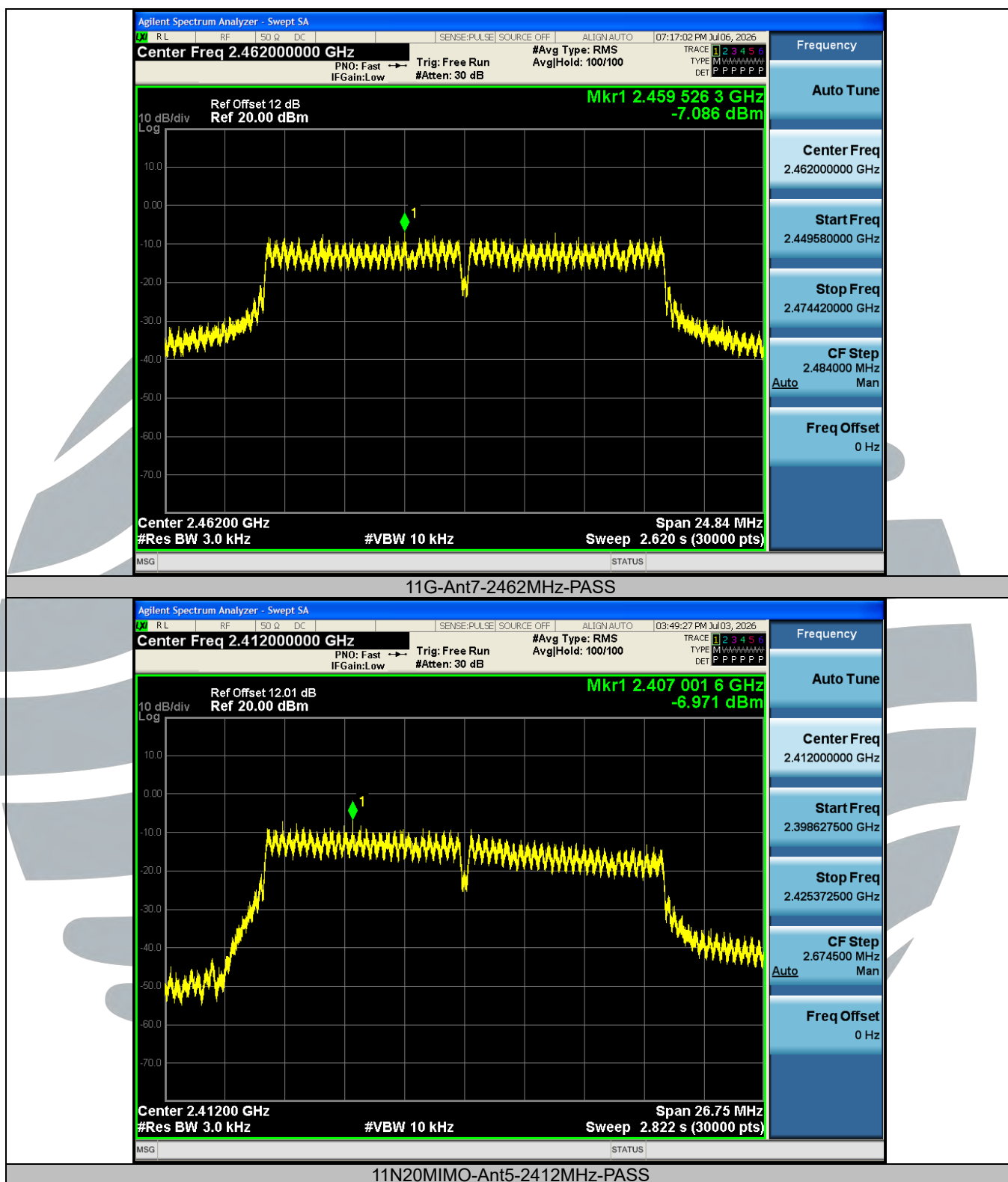
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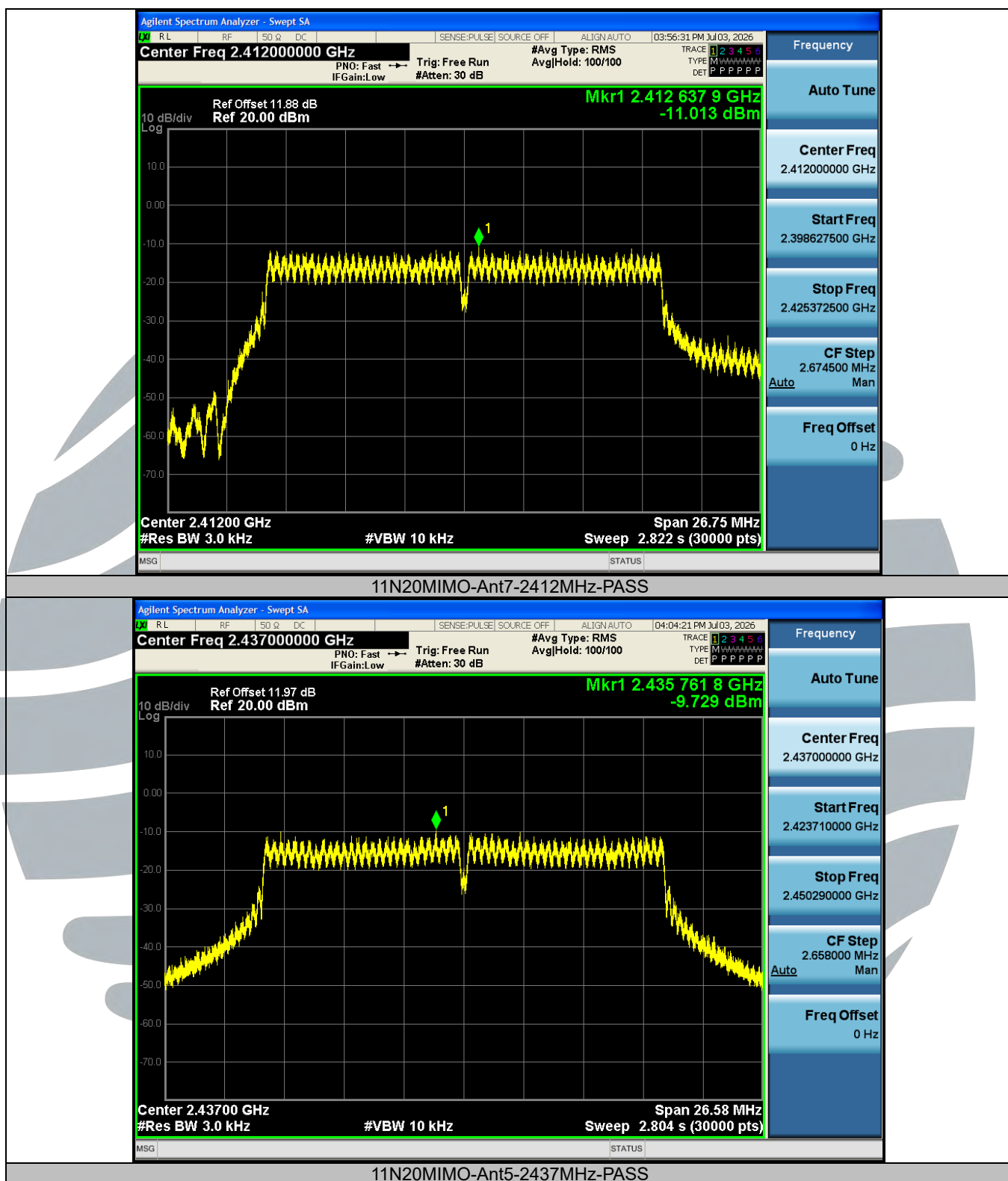
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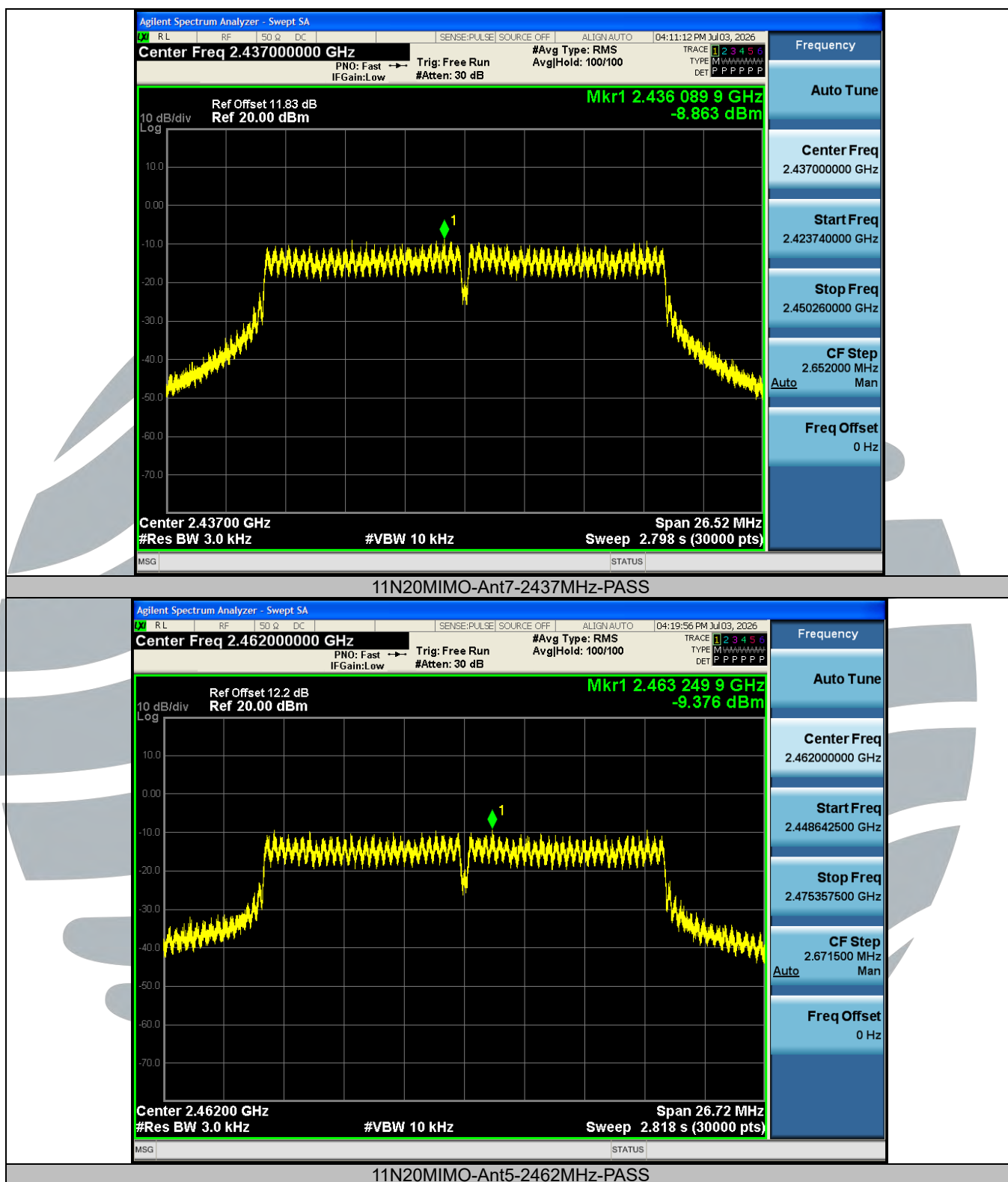
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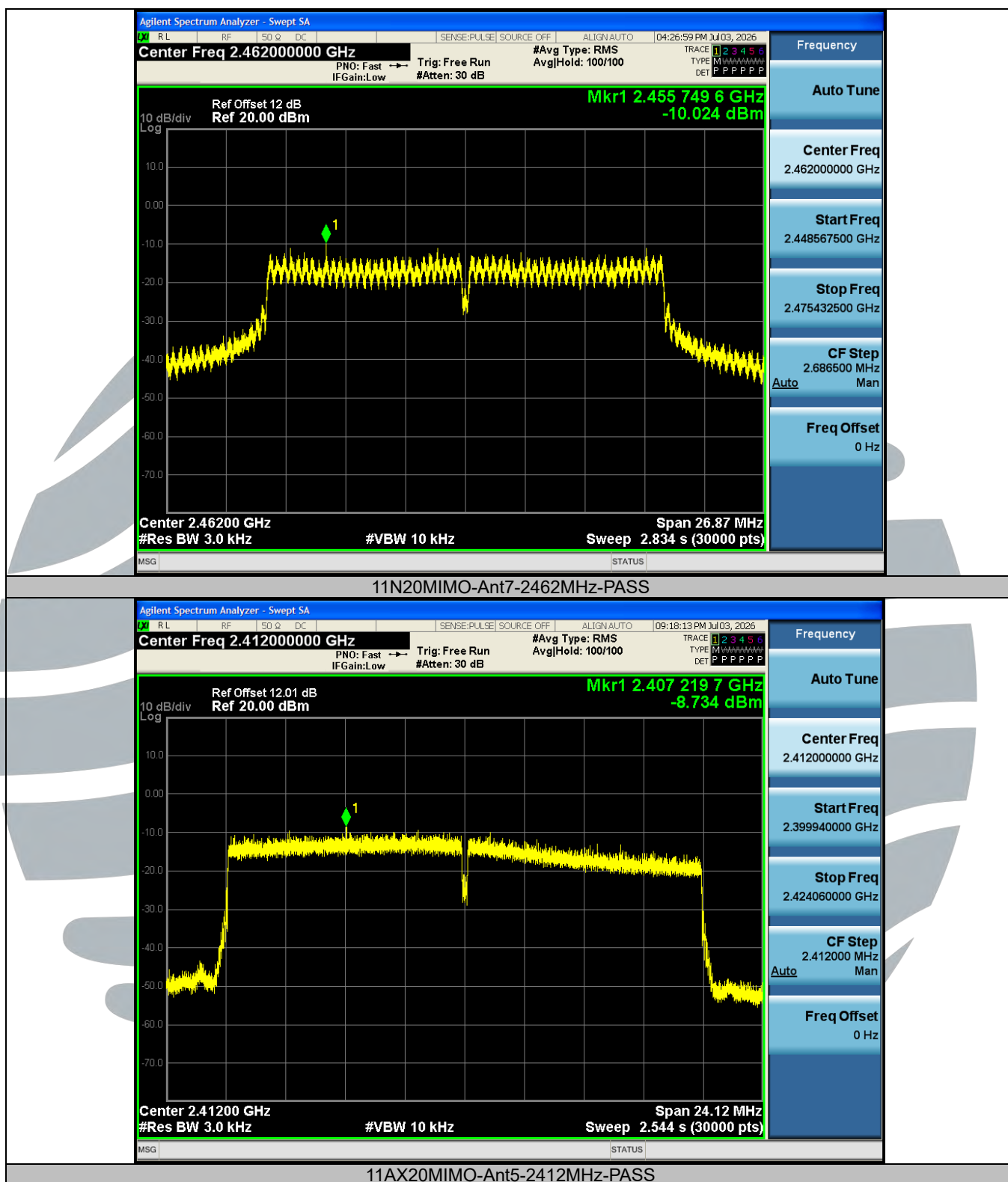
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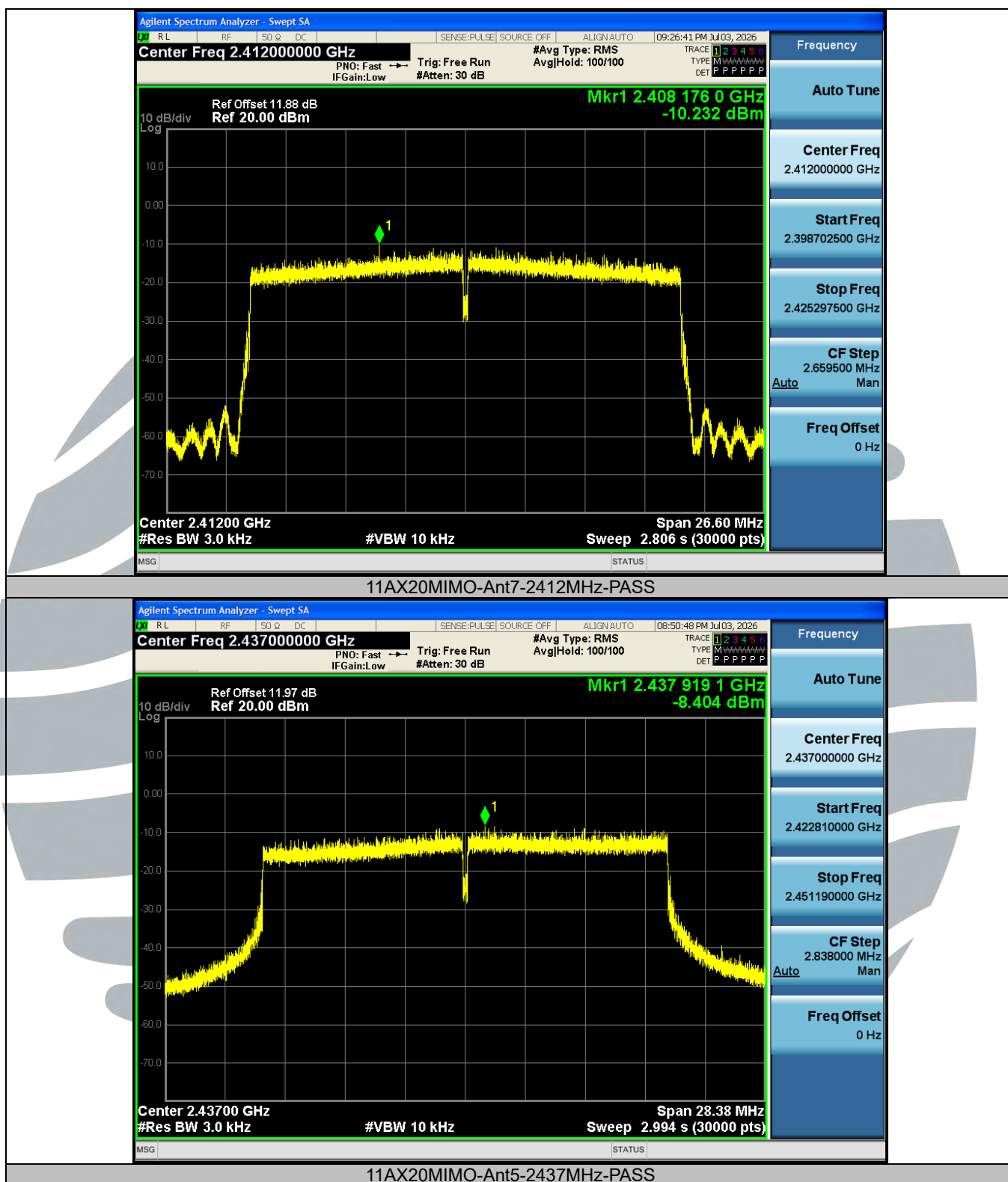
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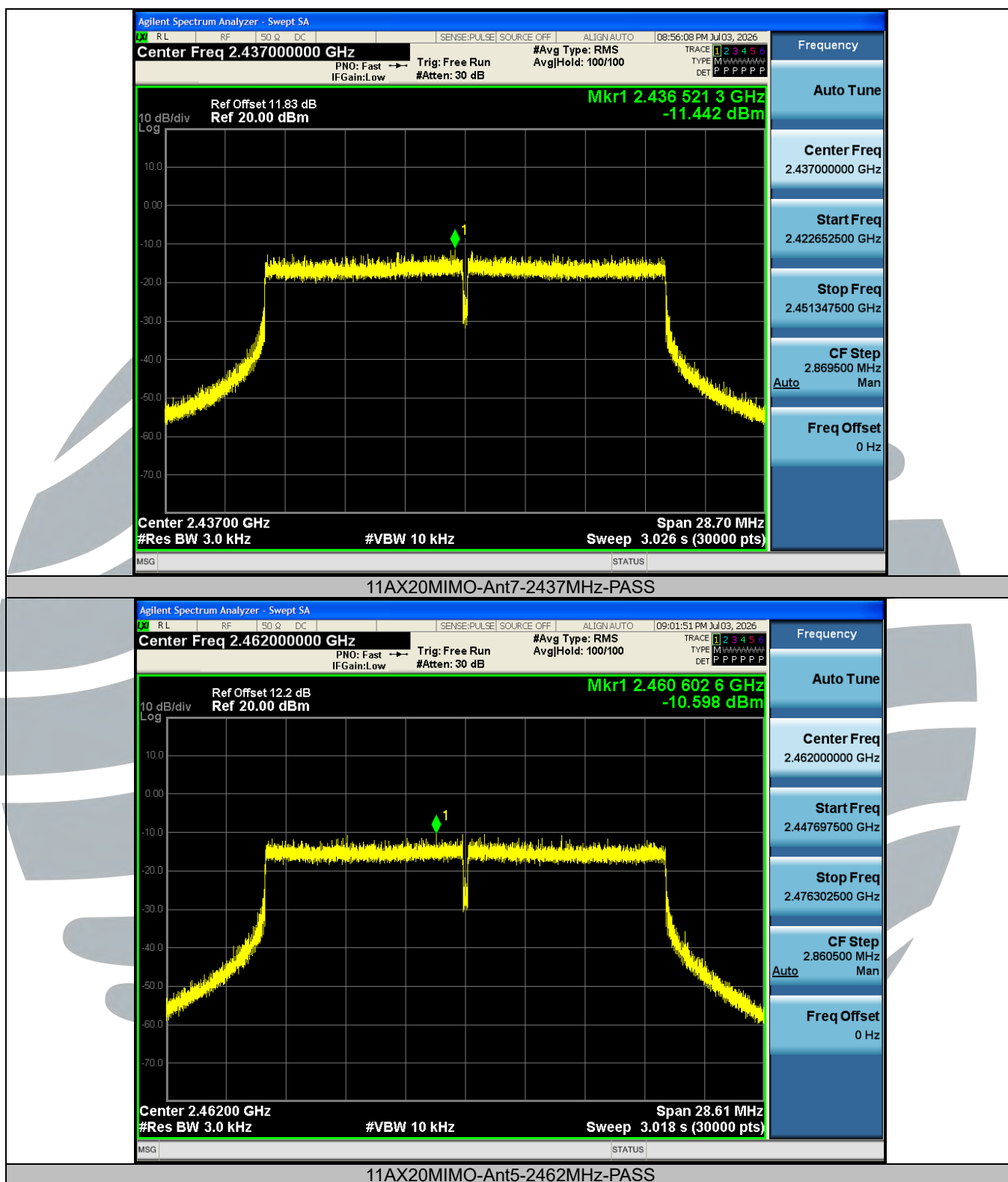
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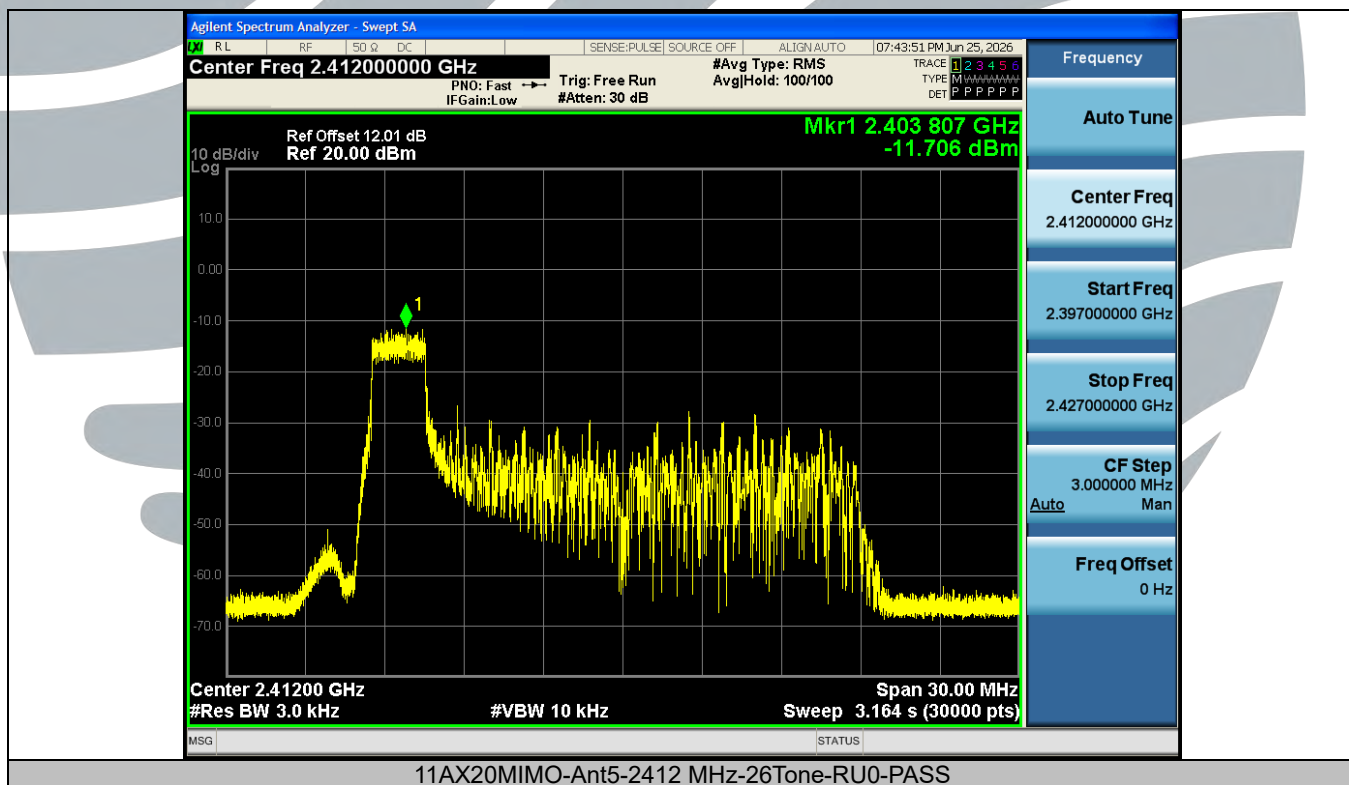
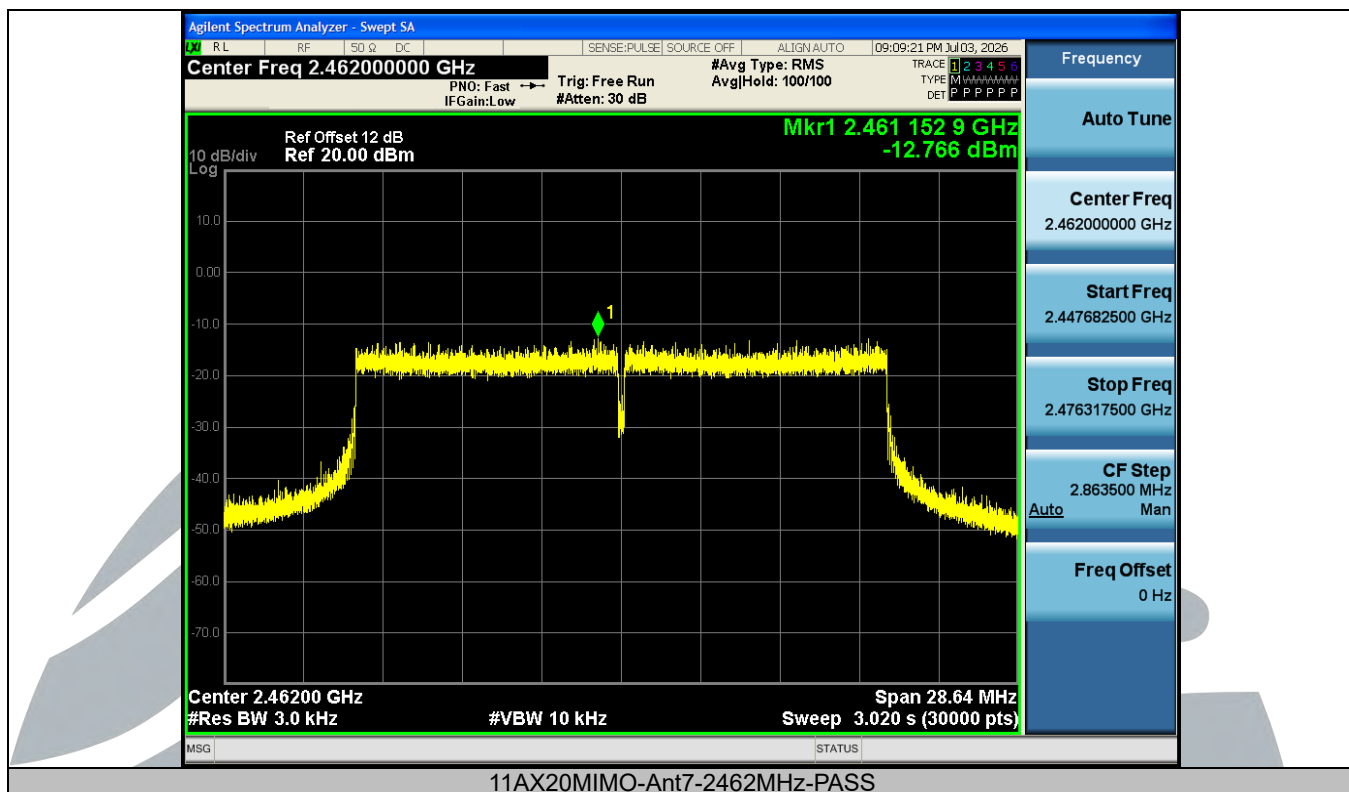
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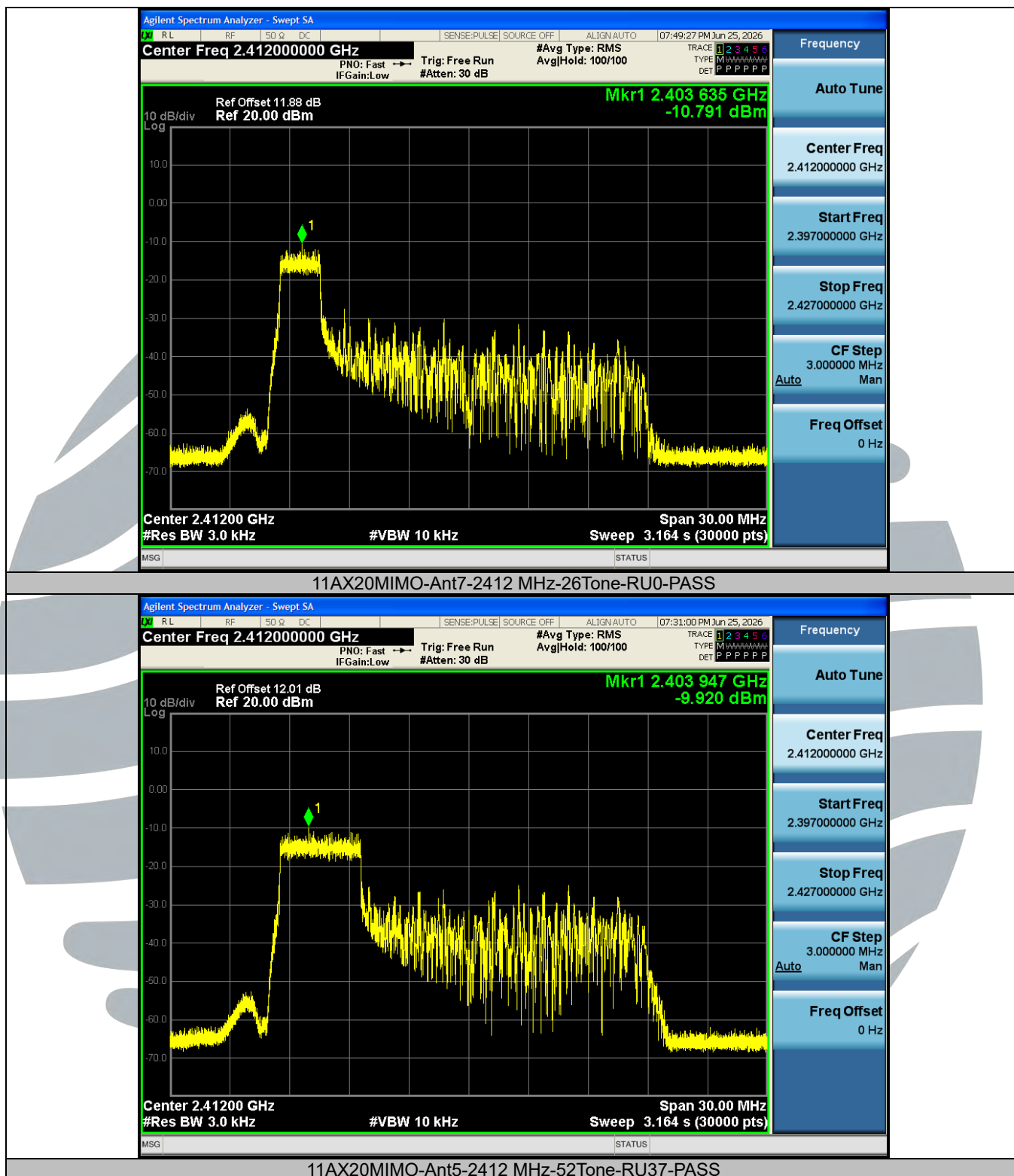
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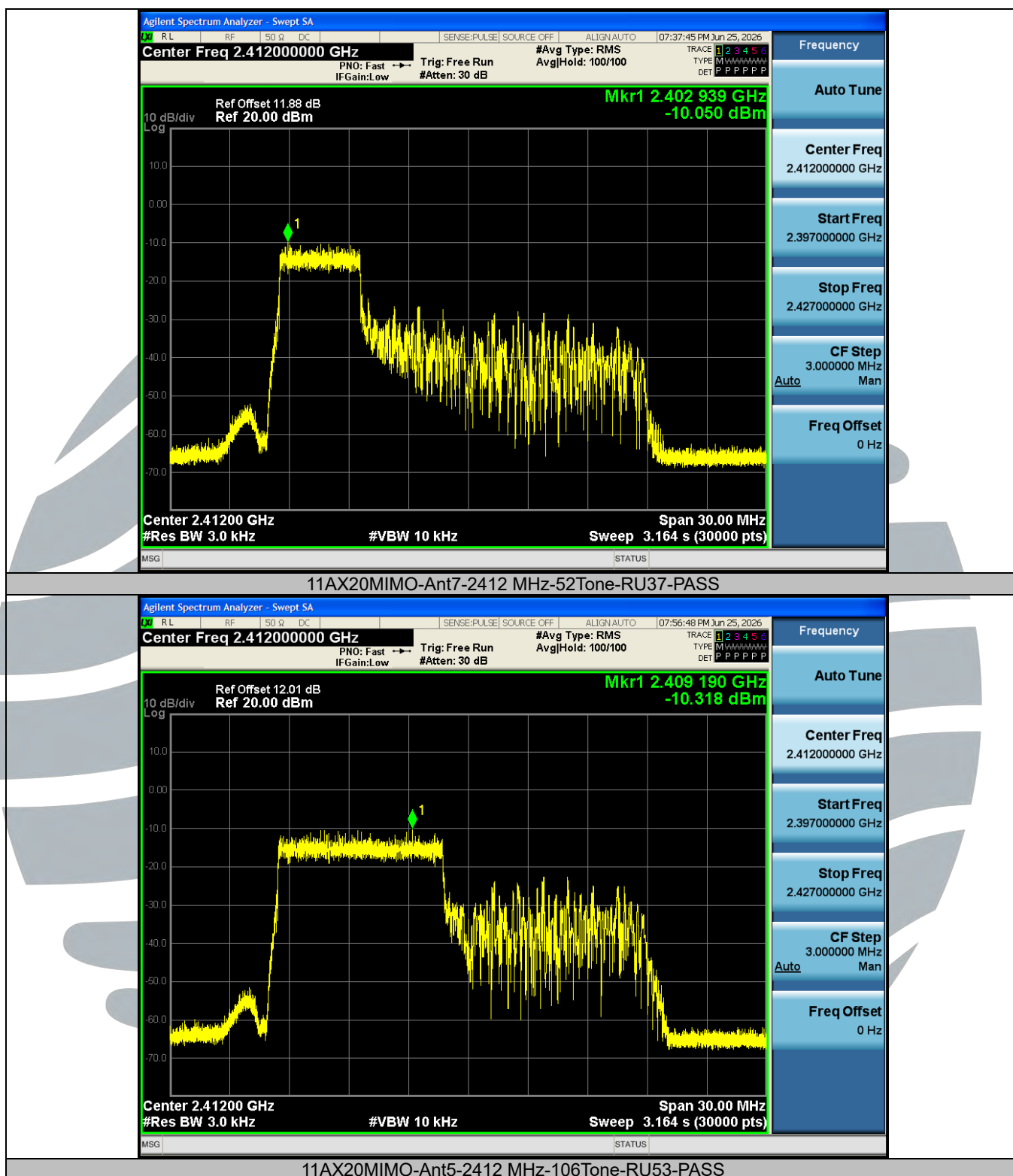
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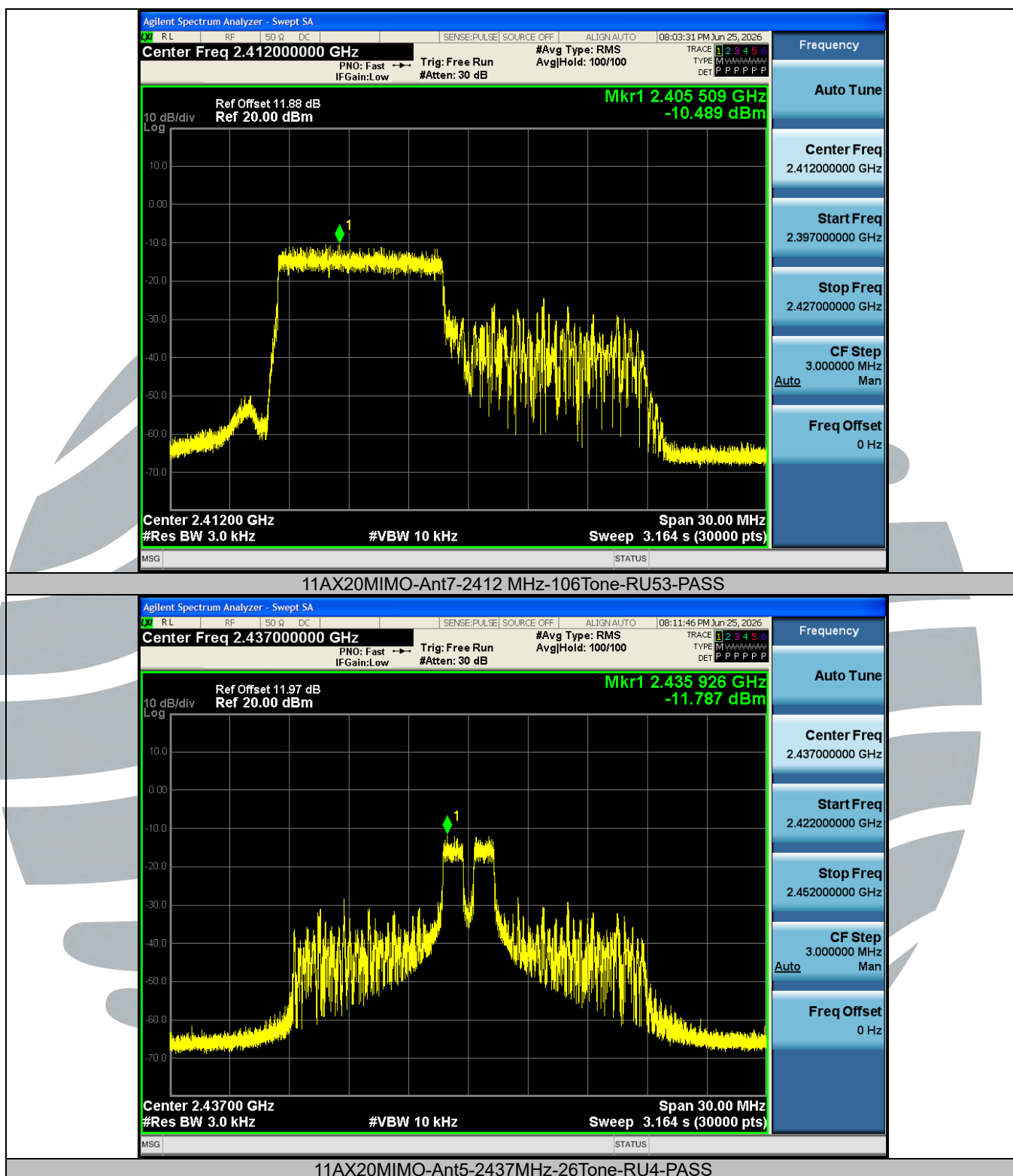
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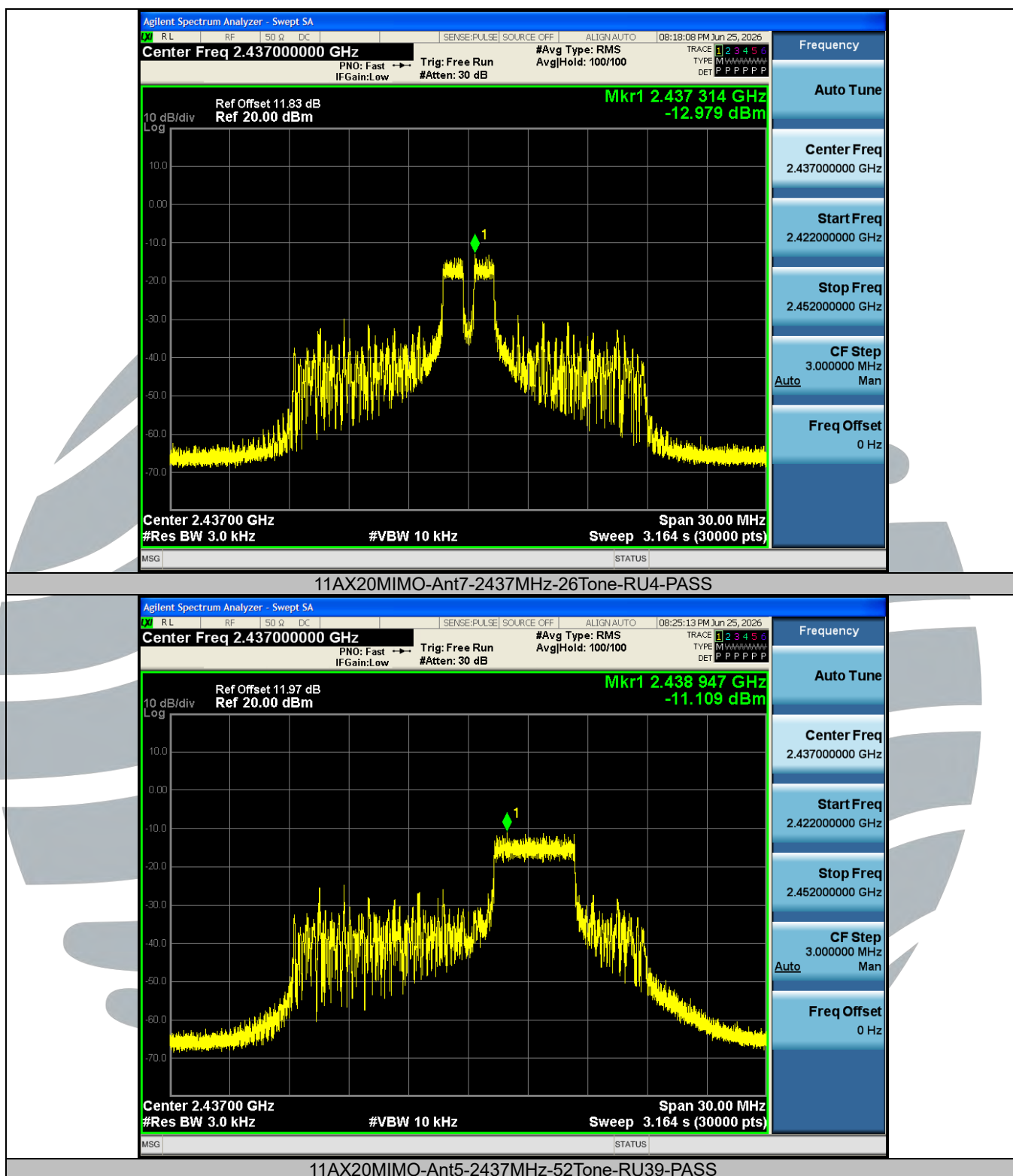
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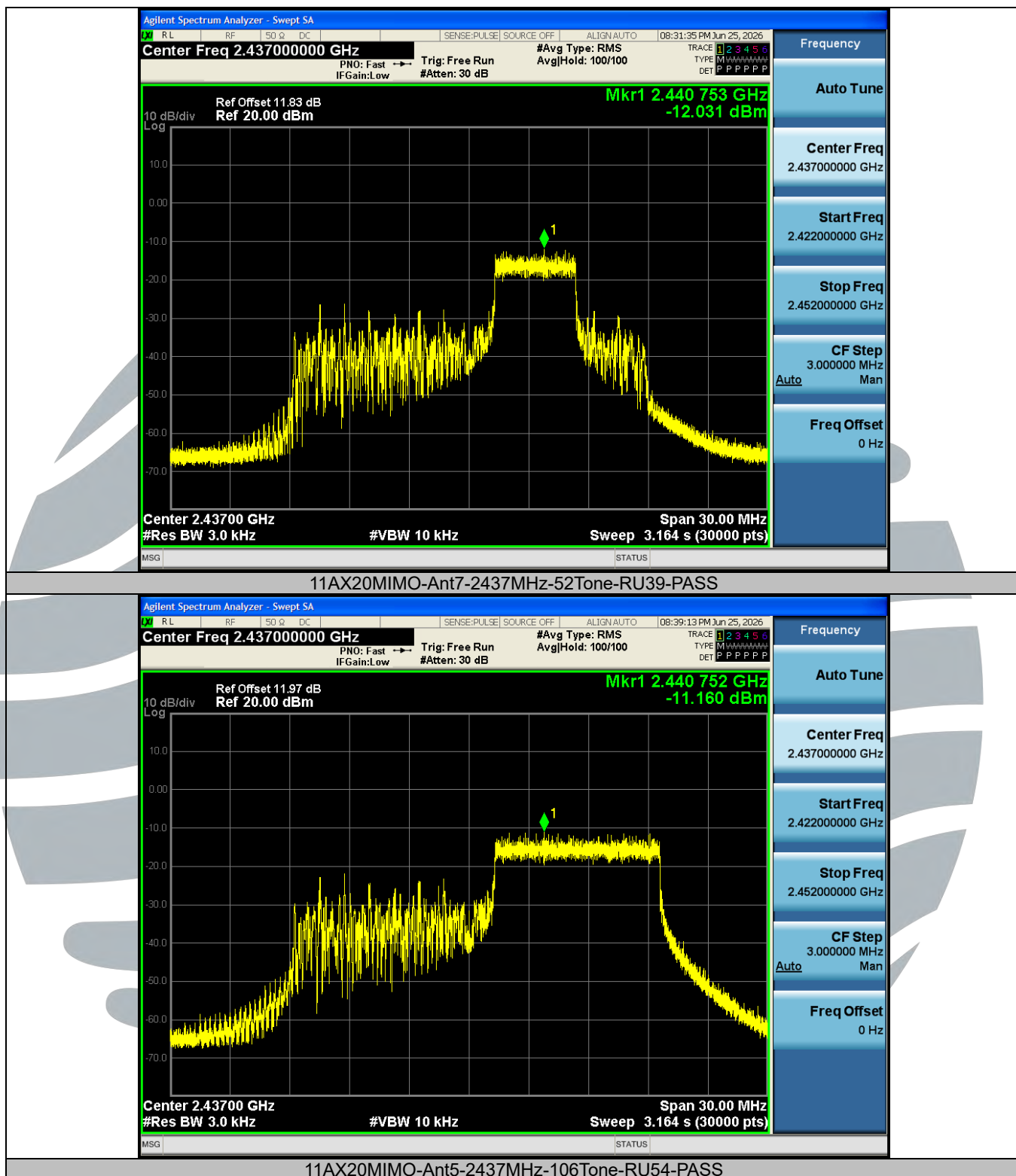
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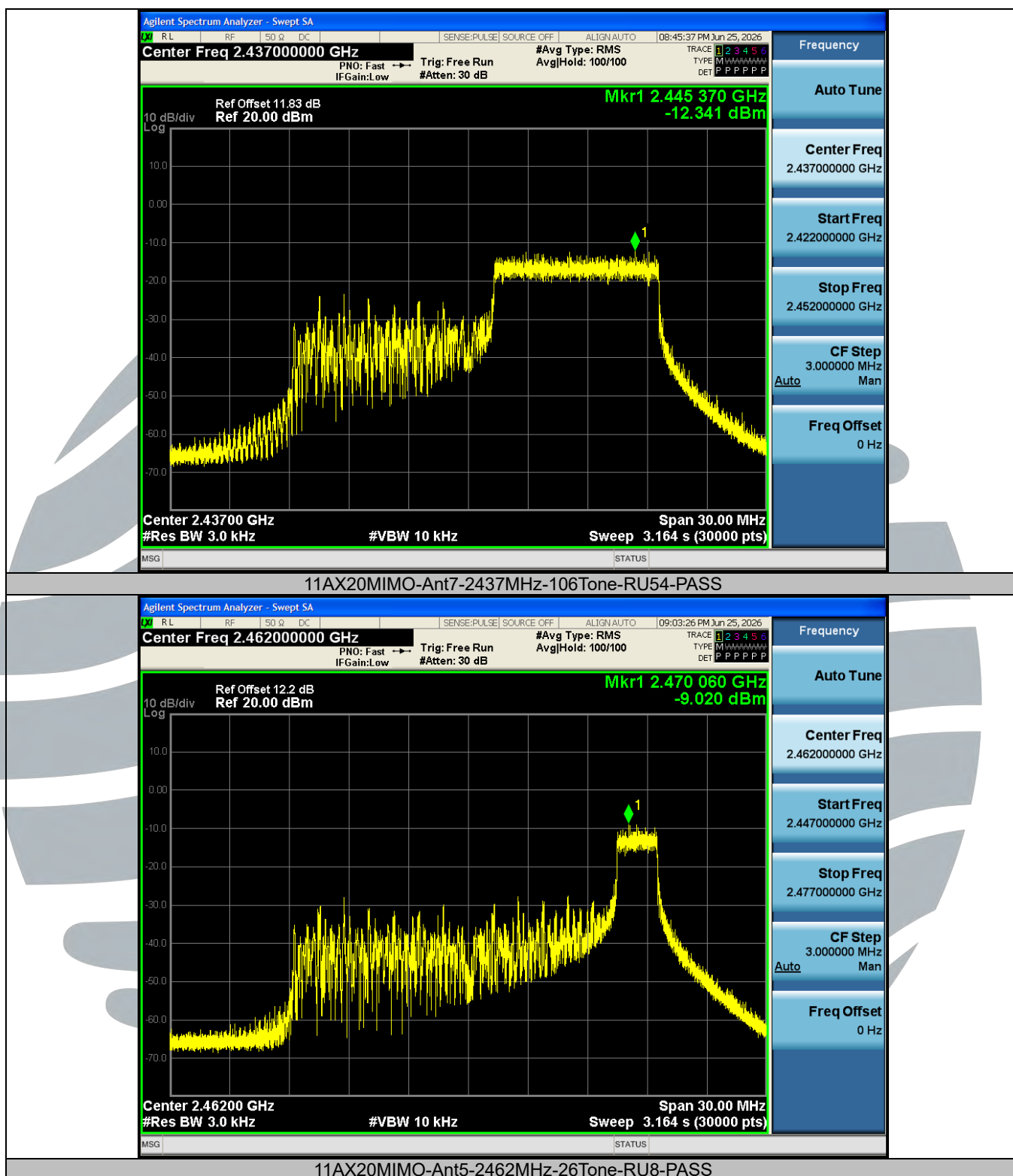
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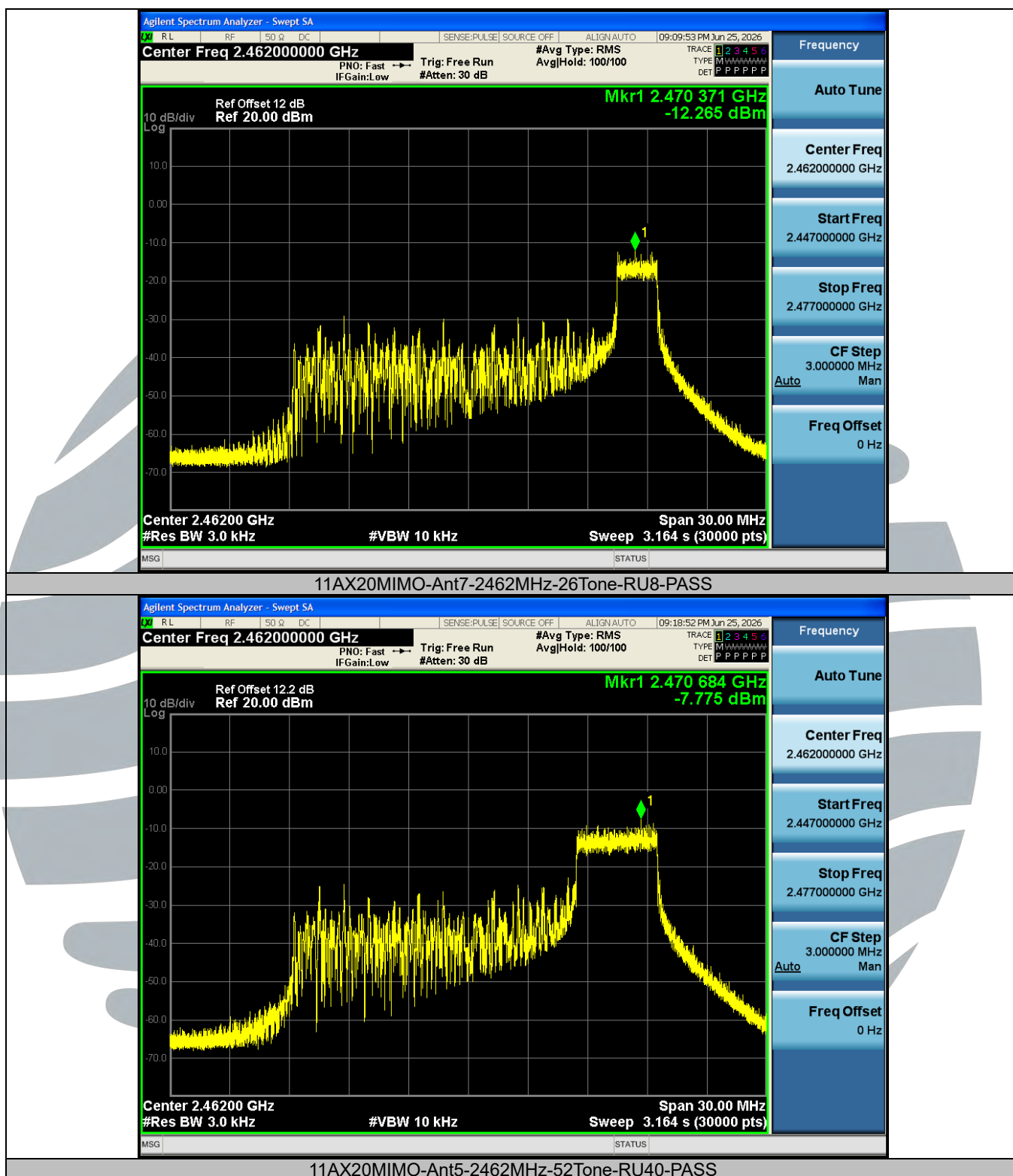
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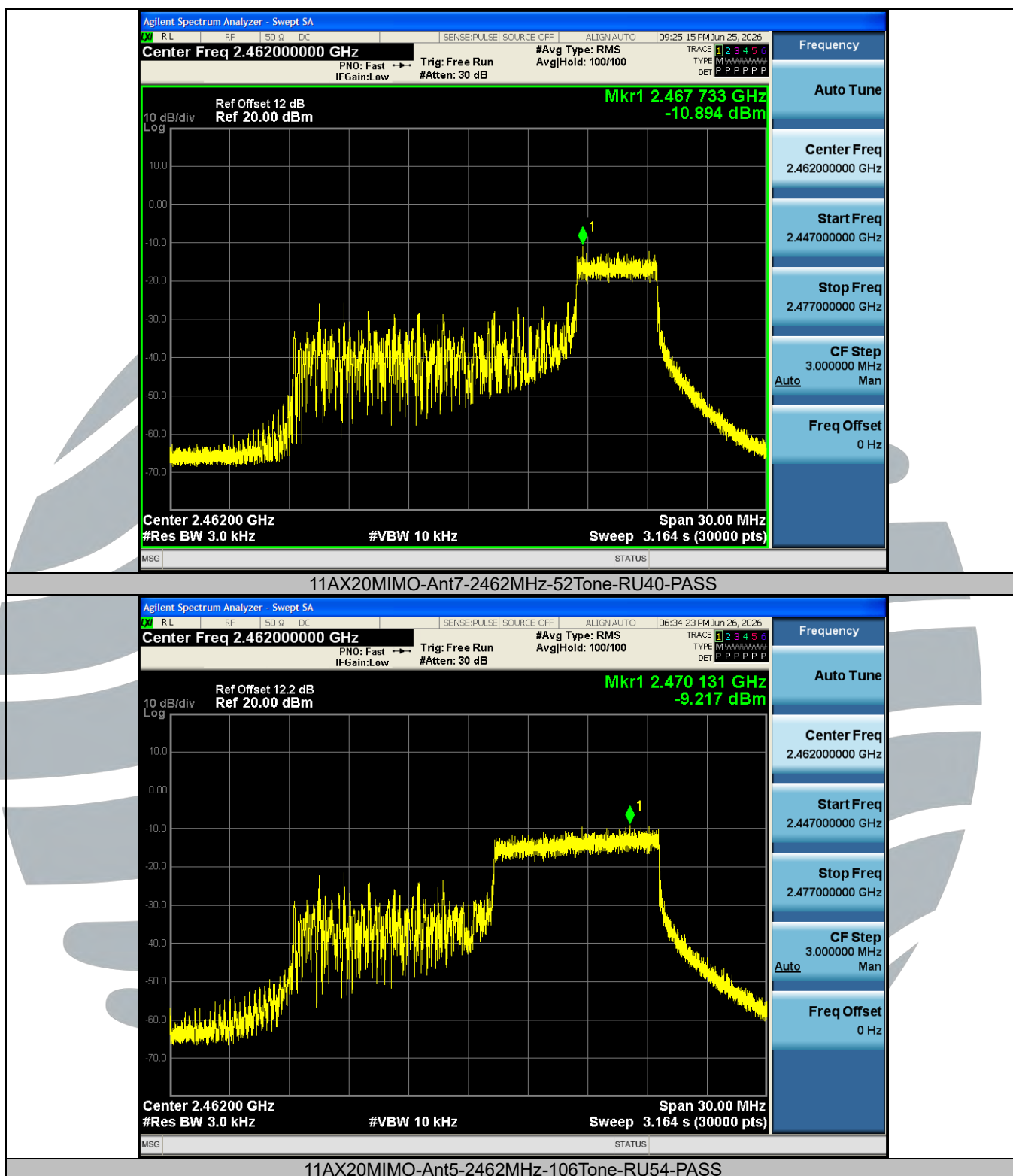
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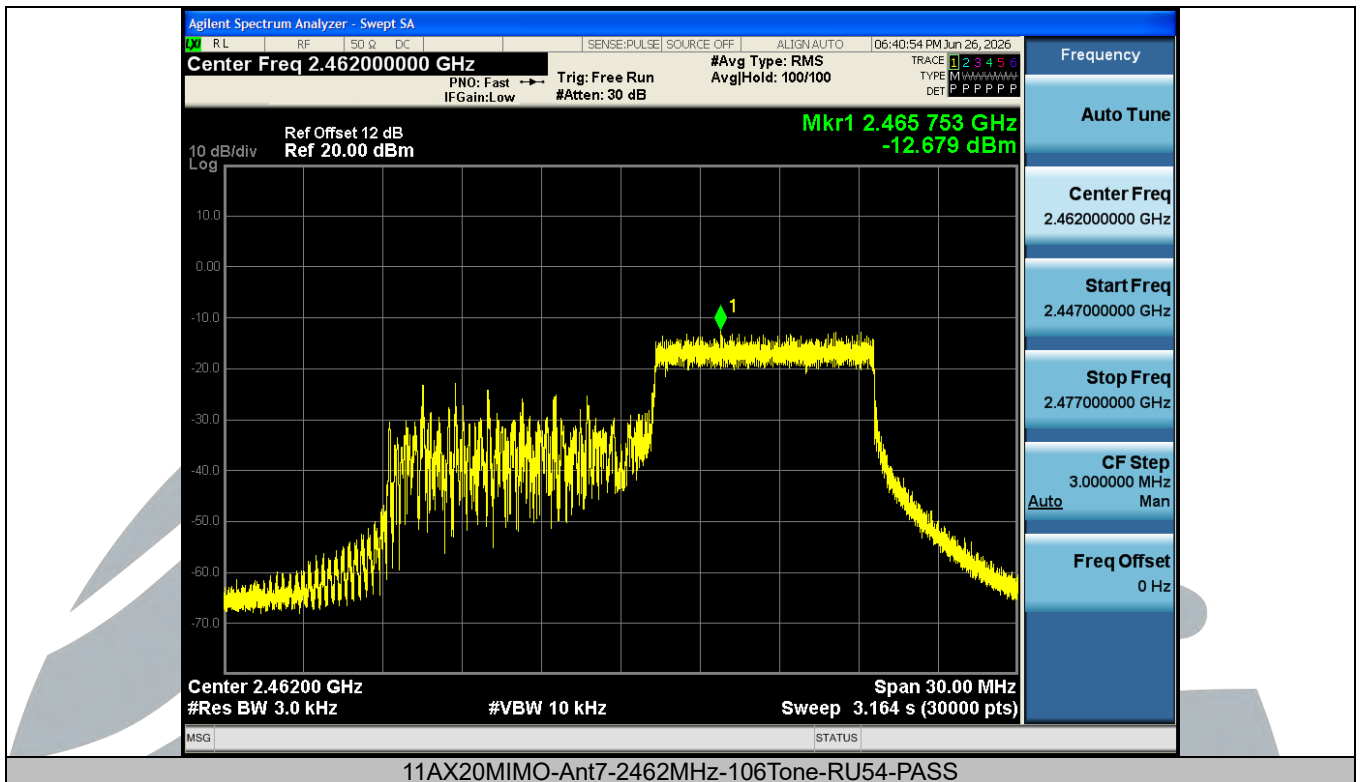
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5.7 CONDUCTED OUT OF BAND EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(d)

Test Method: ANSI C63.10-2020 Clause 11.11

Limit: In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

Step 1: Measurement Procedure REF

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW $\geq 3 \times$ RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.
- j) Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Step 2: Measurement Procedure OOB

- a) Set RBW = 100 kHz.
- b) Set VBW ≥ 300 kHz.
- c) Detector = peak.
- d) Sweep = auto couple.
- e) Trace Mode = max hold.
- f) Allow trace to fully stabilize.
- g) Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

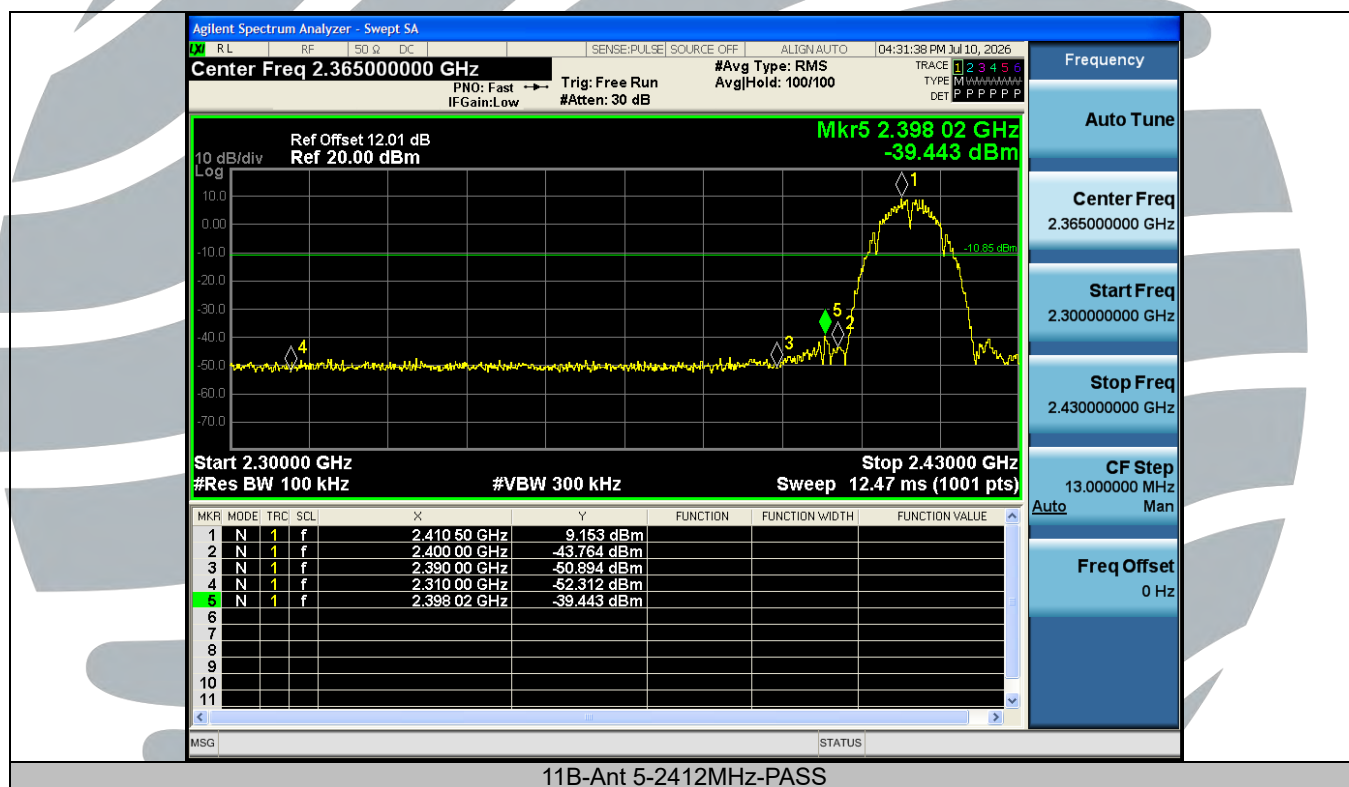
Instruments Used: Refer to section 3 for details

Test Mode: Tx mode

Test Results:

Conducted Out Of Band Emission

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant 5	Low	2412	9.15	-39.44	≤-10.85	PASS
11B	Ant 7	Low	2412	9.80	-41.19	≤-10.2	PASS
11B	Ant 5	High	2462	8.79	-47.13	≤-11.21	PASS
11B	Ant 7	High	2462	8.80	-46.82	≤-11.2	PASS
11G	Ant 5	Low	2412	3.84	-29.09	≤-16.16	PASS
11G	Ant 7	Low	2412	2.04	-39.09	≤-17.96	PASS
11G	Ant 5	High	2462	1.78	-46.92	≤-18.22	PASS
11G	Ant 7	High	2462	1.44	-47.92	≤-18.56	PASS
11N20MIMO	Ant 5	Low	2412	0.67	-39.04	≤-19.33	PASS
11N20MIMO	Ant 7	Low	2412	0.71	-40.25	≤-19.29	PASS
11N20MIMO	Ant 5	High	2462	0.10	-40.98	≤-19.9	PASS
11N20MIMO	Ant 7	High	2462	-1.82	-45.97	≤-21.82	PASS
11AX20MIMO	Ant 5	Low	2412	2.11	-32.52	≤-17.89	PASS
11AX20MIMO	Ant 7	Low	2412	0.07	-44.97	≤-19.93	PASS
11AX20MIMO	Ant 5	High	2462	1.02	-45.32	≤-18.98	PASS
11AX20MIMO	Ant 7	High	2462	-1.41	-39.02	≤-21.41	PASS



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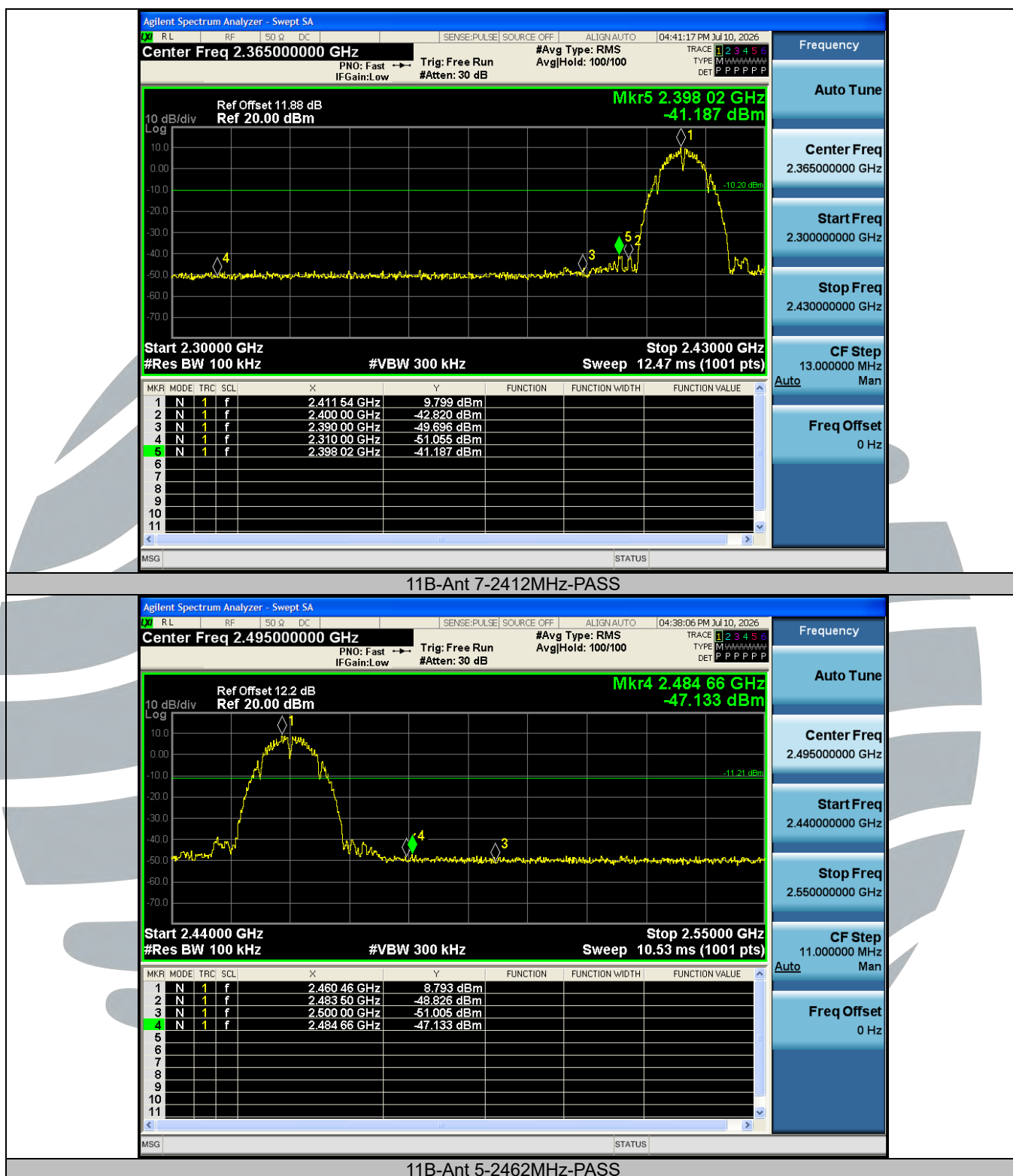
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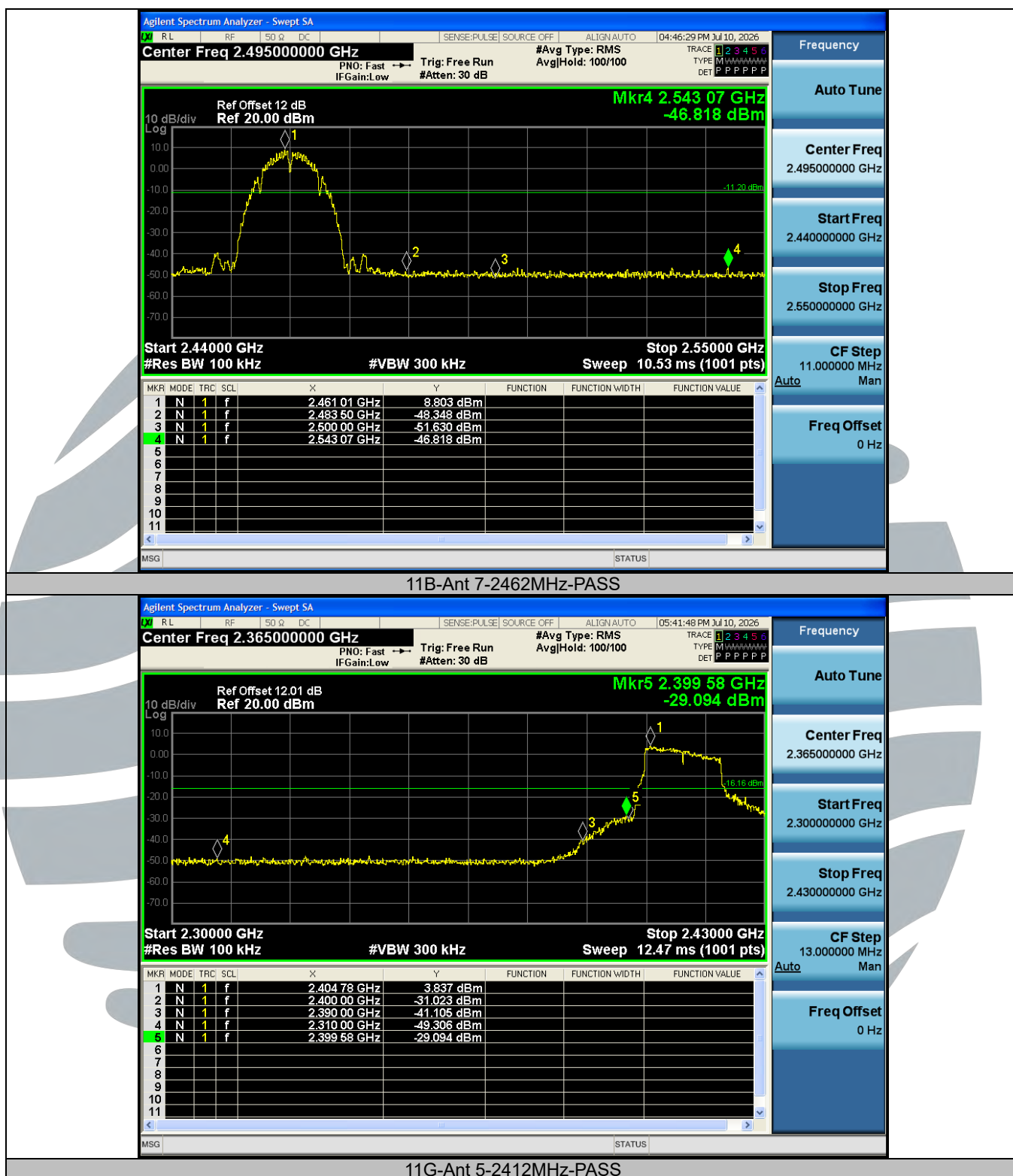
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Fax: +86-755-28230886

E-mail: info@uttlab.com

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11G-Ant 5-2412MHz-PASS

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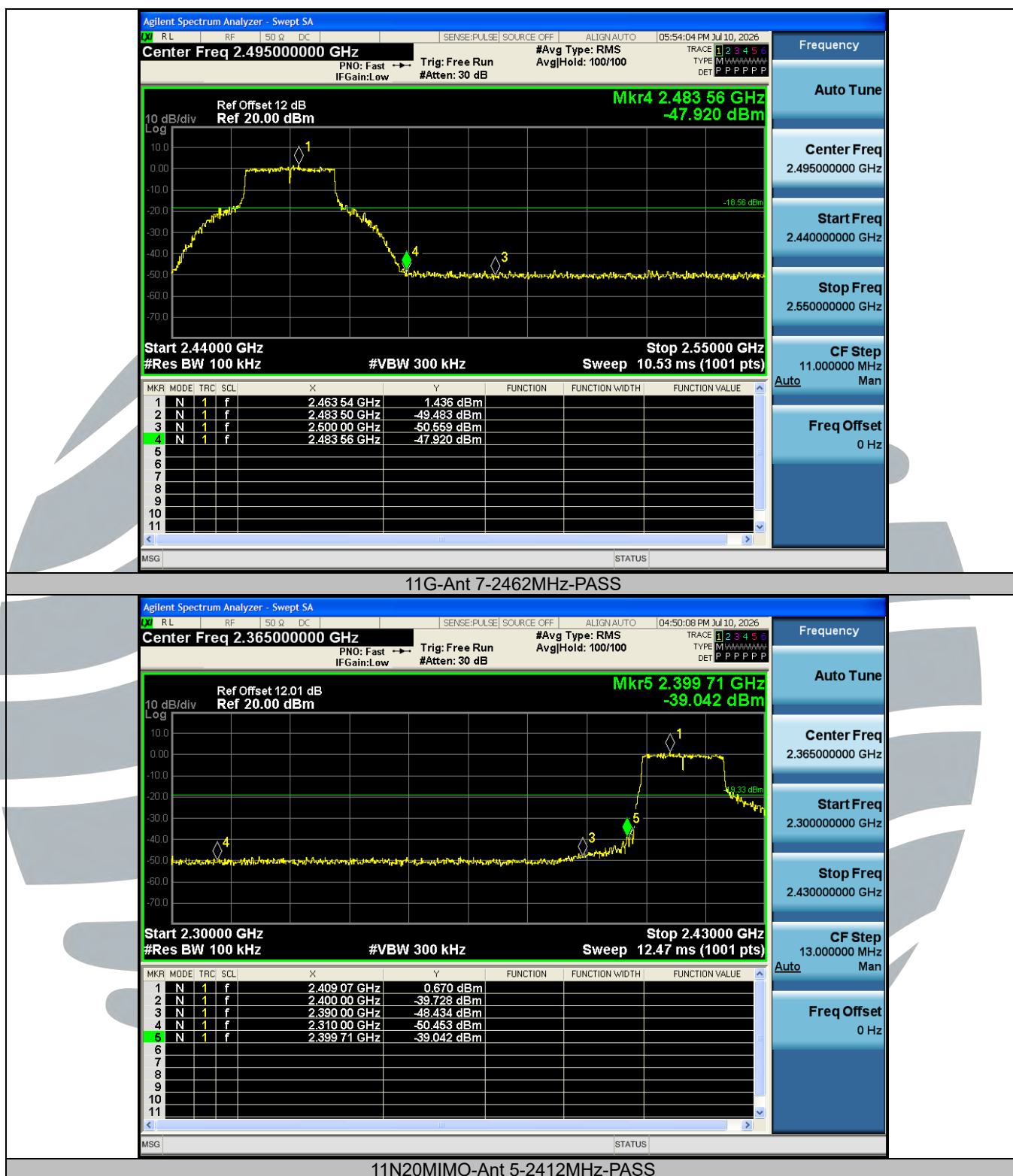
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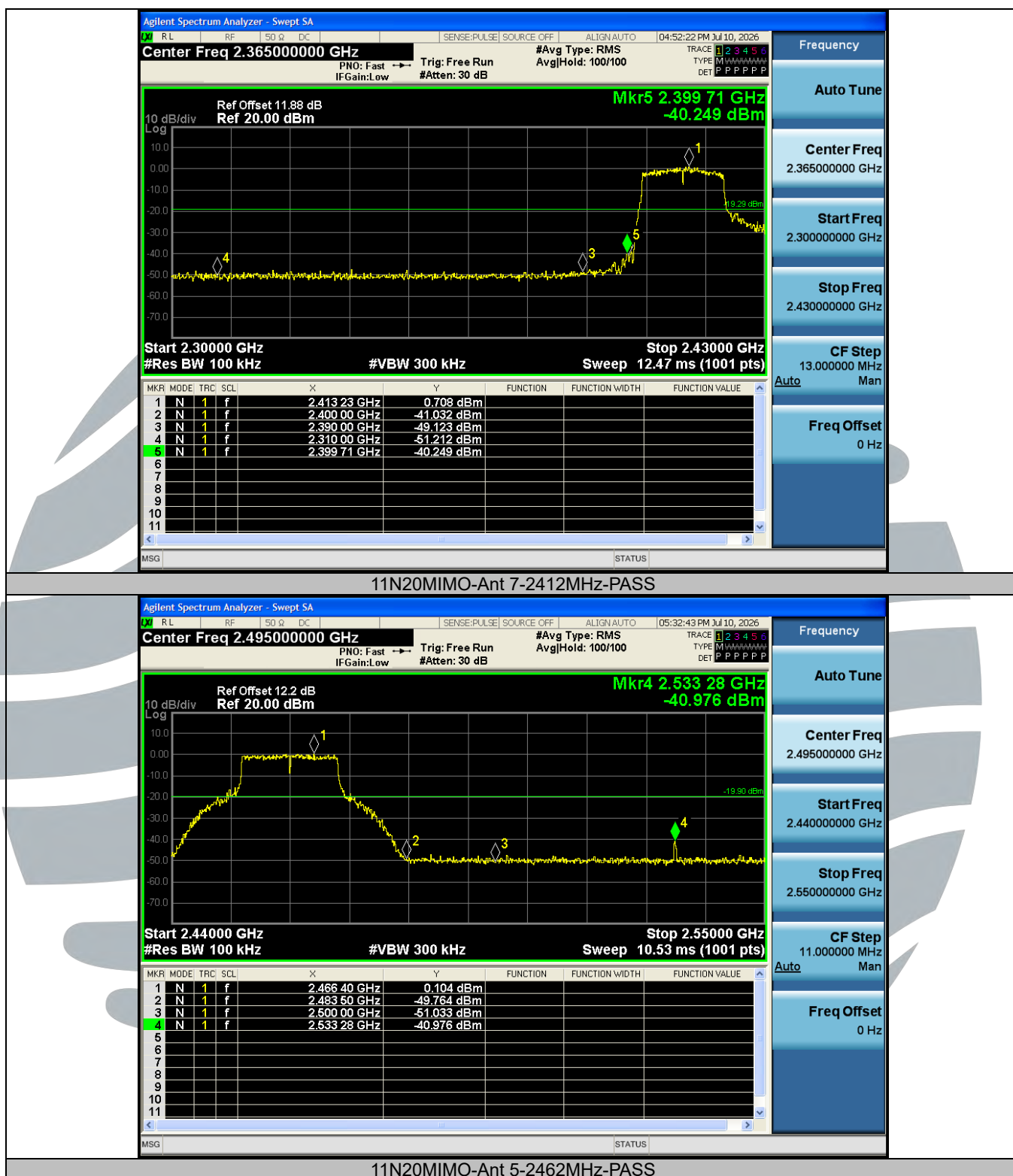
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11N20MIMO-Ant 7-2412MHz-PASS

Agilent Spectrum Analyzer - Swept SA

RL

RF

ISO

DC

SENSE:PULSE SOURCE:OFF ALIGN:AUTO 05:32:43 PM 11/10/2026

Center Freq 2.495000000 GHz

PNO: Fast

IFGain:Low

Trig: Free Run

#Atten: 30 dB

#Avg Type: RMS AvgHld: 100/100

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W W W

DET P P P P P P P

Ref Offset 12.2 dB

Ref 20.00 dBm

Mkr4 2.533 28 GHz -40.976 dBm

10 dB/div

Log

1

2

3

4

5

6

7

8

9

10

11

Start 2.44000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 2.55000 GHz

Sweep 10.53 ms (1001 pts)

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.495000000 GHz

Start Freq 2.440000000 GHz

Stop Freq 2.550000000 GHz

CF Step 11.000000 MHz

Auto Man

Freq Offset 0 Hz

11N20MIMO-Ant 5-2462MHz-PASS

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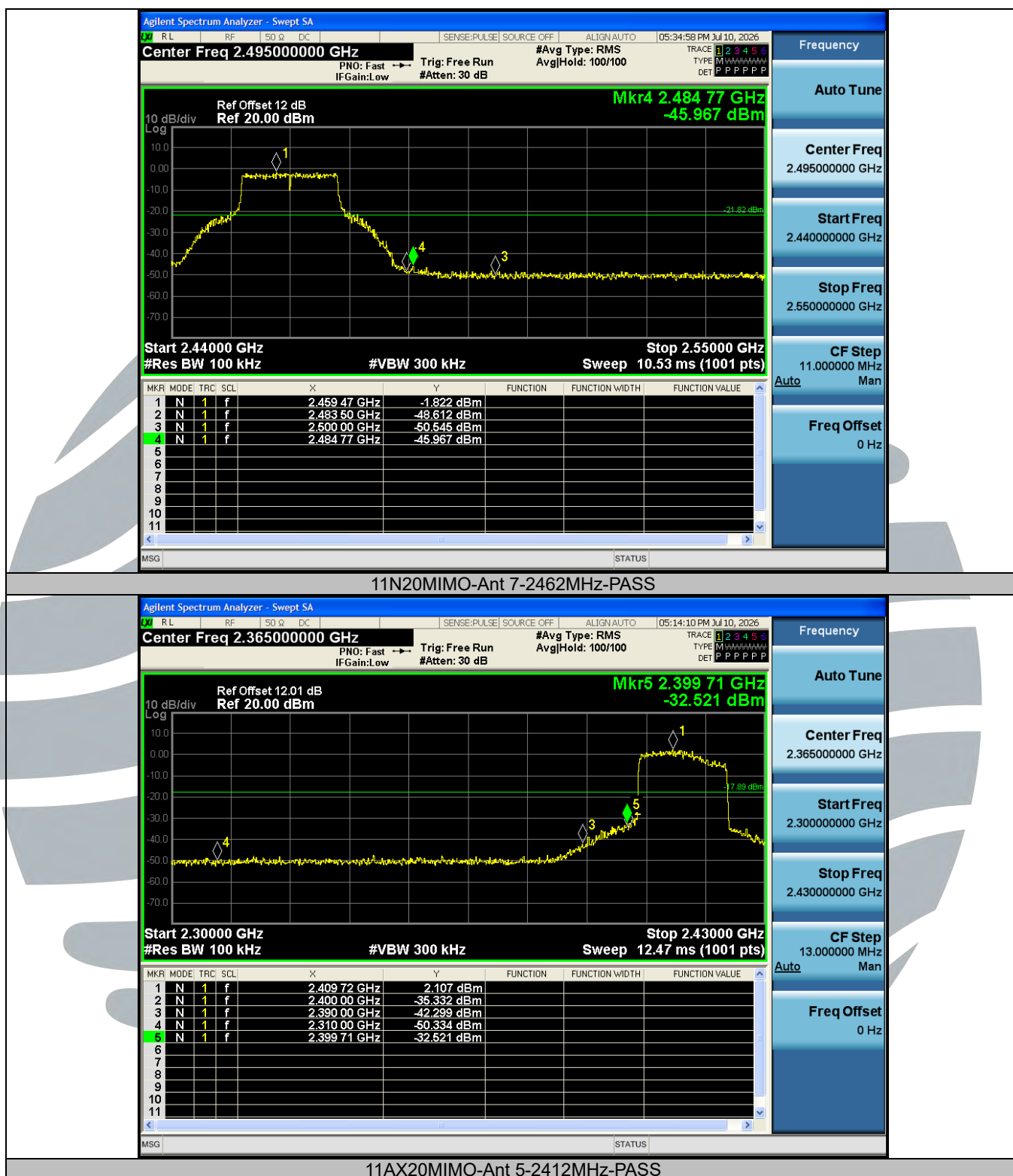
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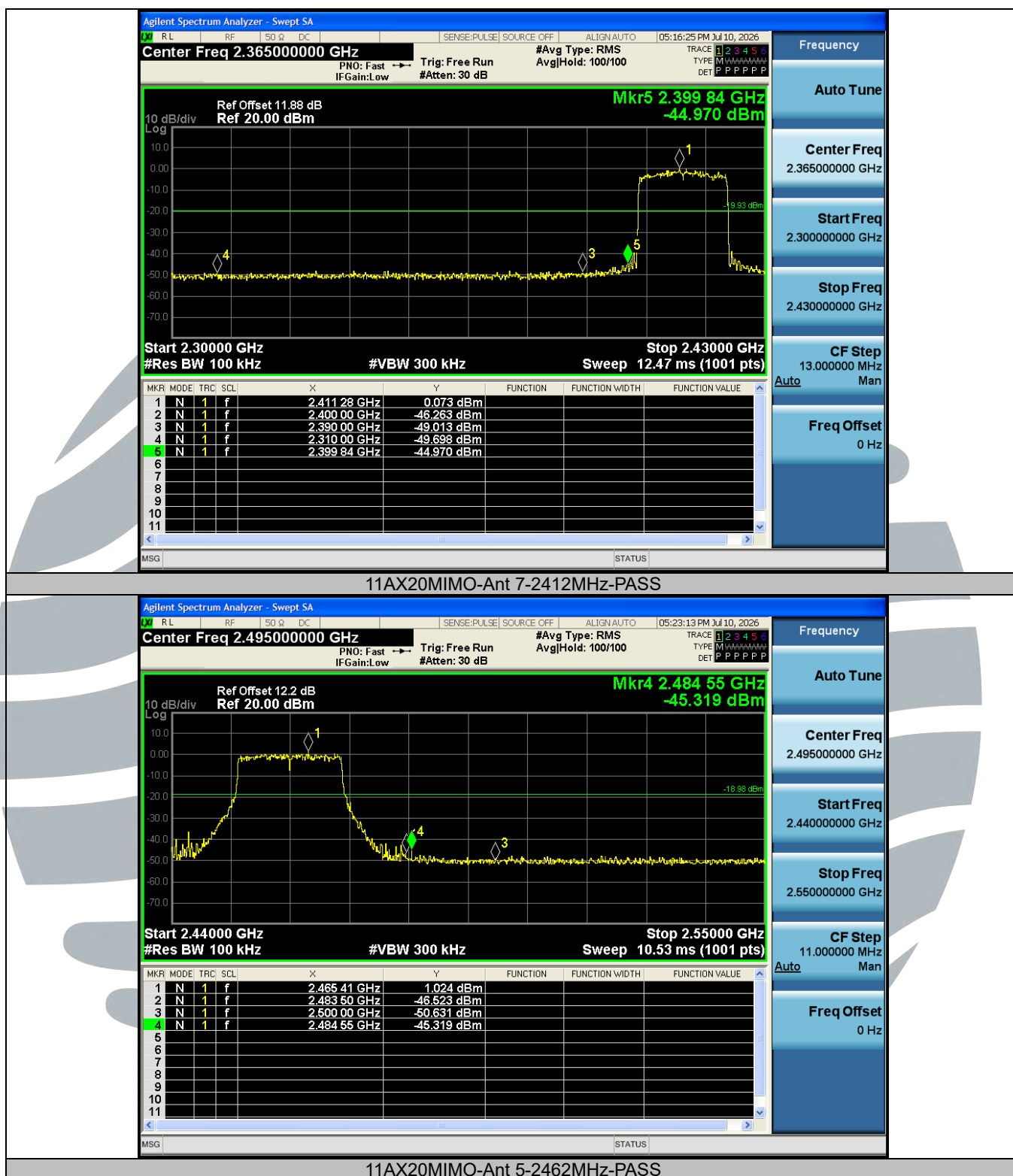
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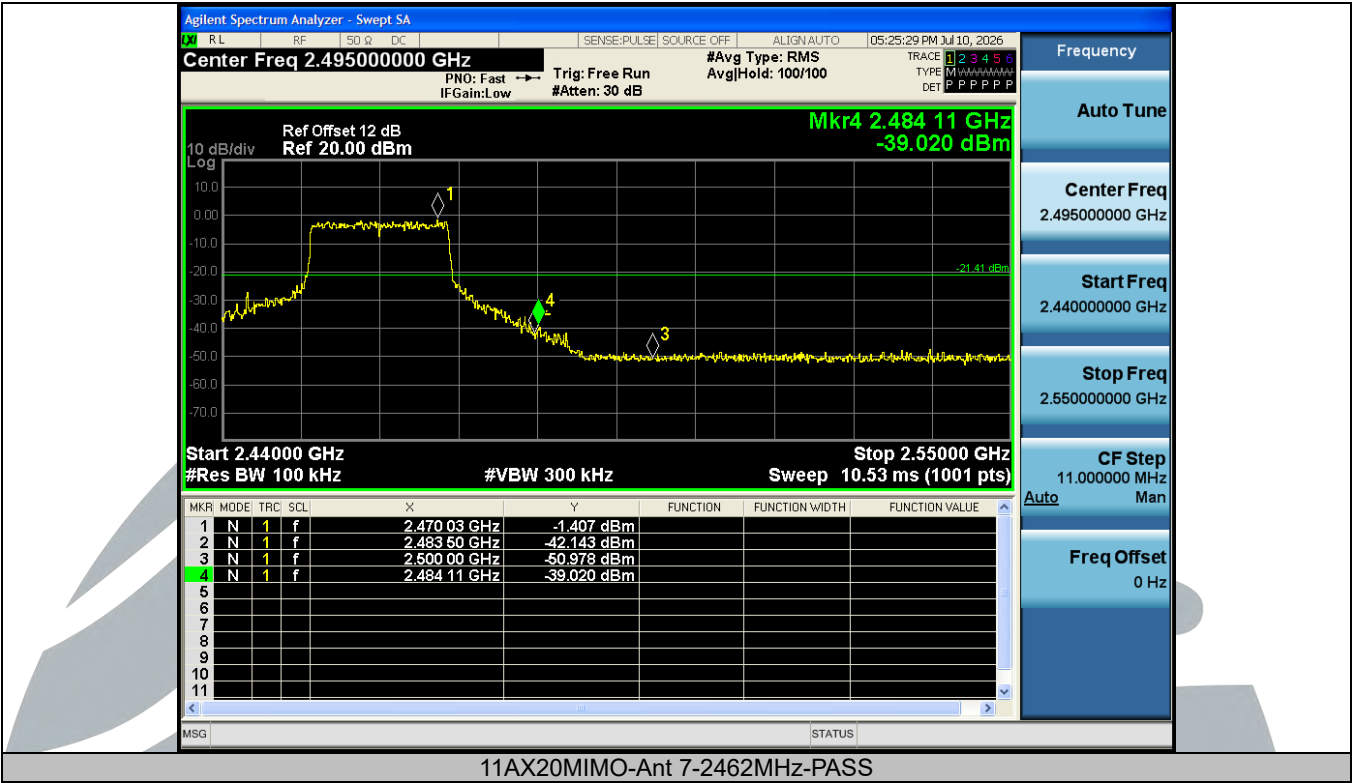
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Conducted Spurious Emission

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant5	2412	0~Reference	8.23	8.23	---	PASS
11B	Ant5	2412	30~1000	8.23	-60.15	≤-11.77	PASS
11B	Ant5	2412	1000~26500	8.23	-27.35	≤-11.77	PASS
11B	Ant7	2412	0~Reference	8.78	8.78	---	PASS
11B	Ant7	2412	30~1000	8.78	-59.5	≤-11.22	PASS
11B	Ant7	2412	1000~26500	8.78	-26.49	≤-11.22	PASS
11B	Ant5	2437	0~Reference	9.02	9.02	---	PASS
11B	Ant5	2437	30~1000	9.02	-60.03	≤-10.98	PASS
11B	Ant5	2437	1000~26500	9.02	-26.4	≤-10.98	PASS
11B	Ant7	2437	0~Reference	7.59	7.59	---	PASS
11B	Ant7	2437	30~1000	7.59	-59.13	≤-12.41	PASS
11B	Ant7	2437	1000~26500	7.59	-26.36	≤-12.41	PASS
11B	Ant5	2462	0~Reference	8.10	8.10	---	PASS
11B	Ant5	2462	30~1000	8.10	-60.15	≤-11.9	PASS
11B	Ant5	2462	1000~26500	8.10	-26.9	≤-11.9	PASS
11B	Ant7	2462	0~Reference	7.72	7.72	---	PASS
11B	Ant7	2462	30~1000	7.72	-60.12	≤-12.28	PASS
11B	Ant7	2462	1000~26500	7.72	-26.47	≤-12.28	PASS
11G	Ant5	2412	0~Reference	2.05	2.05	---	PASS
11G	Ant5	2412	30~1000	2.05	-59.91	≤-17.95	PASS
11G	Ant5	2412	1000~26500	2.05	-26.92	≤-17.95	PASS
11G	Ant7	2412	0~Reference	2.15	2.15	---	PASS
11G	Ant7	2412	30~1000	2.15	-59.73	≤-17.85	PASS
11G	Ant7	2412	1000~26500	2.15	-26.12	≤-17.85	PASS
11G	Ant5	2437	0~Reference	4.35	4.35	---	PASS
11G	Ant5	2437	30~1000	4.35	-60.28	≤-15.65	PASS
11G	Ant5	2437	1000~26500	4.35	-27.38	≤-15.65	PASS
11G	Ant7	2437	0~Reference	3.24	3.24	---	PASS
11G	Ant7	2437	30~1000	3.24	-59.76	≤-16.76	PASS
11G	Ant7	2437	1000~26500	3.24	-26.72	≤-16.76	PASS
11G	Ant5	2462	0~Reference	2.42	2.42	---	PASS
11G	Ant5	2462	30~1000	2.42	-59.75	≤-17.58	PASS
11G	Ant5	2462	1000~26500	2.42	-27.21	≤-17.58	PASS
11G	Ant7	2462	0~Reference	1.65	1.65	---	PASS
11G	Ant7	2462	30~1000	1.65	-60.39	≤-18.35	PASS
11G	Ant7	2462	1000~26500	1.65	-26.14	≤-18.35	PASS
11N20MIMO	Ant5	2412	0~Reference	0.33	0.33	---	PASS
11N20MIMO	Ant5	2412	30~1000	0.33	-59.82	≤-19.67	PASS
11N20MIMO	Ant5	2412	1000~26500	0.33	-24.22	≤-19.67	PASS
11N20MIMO	Ant7	2412	0~Reference	0.98	0.98	---	PASS
11N20MIMO	Ant7	2412	30~1000	0.98	-59.87	≤-19.02	PASS
11N20MIMO	Ant7	2412	1000~26500	0.98	-26.05	≤-19.02	PASS
11N20MIMO	Ant5	2437	0~Reference	0.52	0.52	---	PASS
11N20MIMO	Ant5	2437	30~1000	0.52	-59.99	≤-19.48	PASS
11N20MIMO	Ant5	2437	1000~26500	0.52	-27.33	≤-19.48	PASS
11N20MIMO	Ant7	2437	0~Reference	1.68	1.68	---	PASS
11N20MIMO	Ant7	2437	30~1000	1.68	-60.2	≤-18.32	PASS
11N20MIMO	Ant7	2437	1000~26500	1.68	-26.21	≤-18.32	PASS
11N20MIMO	Ant5	2462	0~Reference	-0.19	-0.19	---	PASS
11N20MIMO	Ant5	2462	30~1000	-0.19	-59.97	≤-20.19	PASS
11N20MIMO	Ant5	2462	1000~26500	-0.19	-26.7	≤-20.19	PASS
11N20MIMO	Ant7	2462	0~Reference	1.44	1.44	---	PASS
11N20MIMO	Ant7	2462	30~1000	1.44	-60.29	≤-18.56	PASS
11N20MIMO	Ant7	2462	1000~26500	1.44	-26.57	≤-18.56	PASS
11AX20MIMO	Ant5	2412	0~Reference	0.54	0.54	---	PASS
11AX20MIMO	Ant5	2412	30~1000	0.54	-60.58	≤-19.46	PASS
11AX20MIMO	Ant5	2412	1000~26500	0.54	-26.81	≤-19.46	PASS
11AX20MIMO	Ant7	2412	0~Reference	0.34	0.34	---	PASS
11AX20MIMO	Ant7	2412	30~1000	0.34	-59.81	≤-19.66	PASS
11AX20MIMO	Ant7	2412	1000~26500	0.34	-26.24	≤-19.66	PASS

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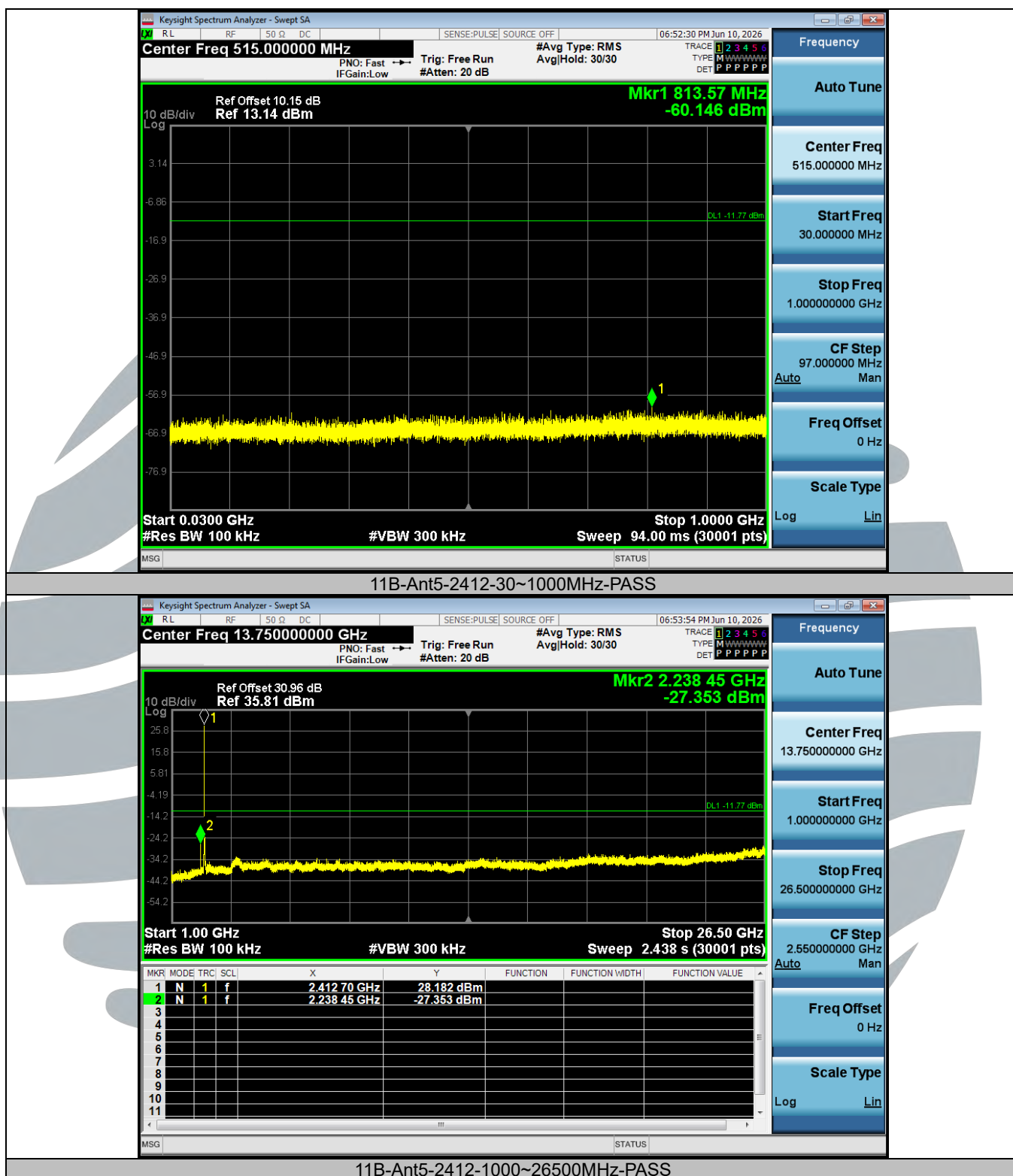
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11AX20MIMO	Ant5	2437	0~Reference	2.34	2.34	---	PASS
11AX20MIMO	Ant5	2437	30~1000	2.34	-60.32	≤-17.66	PASS
11AX20MIMO	Ant5	2437	1000~26500	2.34	-27.03	≤-17.66	PASS
11AX20MIMO	Ant7	2437	0~Reference	1.29	1.29	---	PASS
11AX20MIMO	Ant7	2437	30~1000	1.29	-59.56	≤-18.71	PASS
11AX20MIMO	Ant7	2437	1000~26500	1.29	-26.8	≤-18.71	PASS
11AX20MIMO	Ant5	2462	0~Reference	-2.75	-2.75	---	PASS
11AX20MIMO	Ant5	2462	30~1000	-2.75	-56.07	≤-22.75	PASS
11AX20MIMO	Ant5	2462	1000~26500	-2.75	-27.23	≤-22.75	PASS
11AX20MIMO	Ant7	2462	0~Reference	0.99	0.99	---	PASS
11AX20MIMO	Ant7	2462	30~1000	0.99	-60.14	≤-19.01	PASS
11AX20MIMO	Ant7	2462	1000~26500	0.99	-26.27	≤-19.01	PASS





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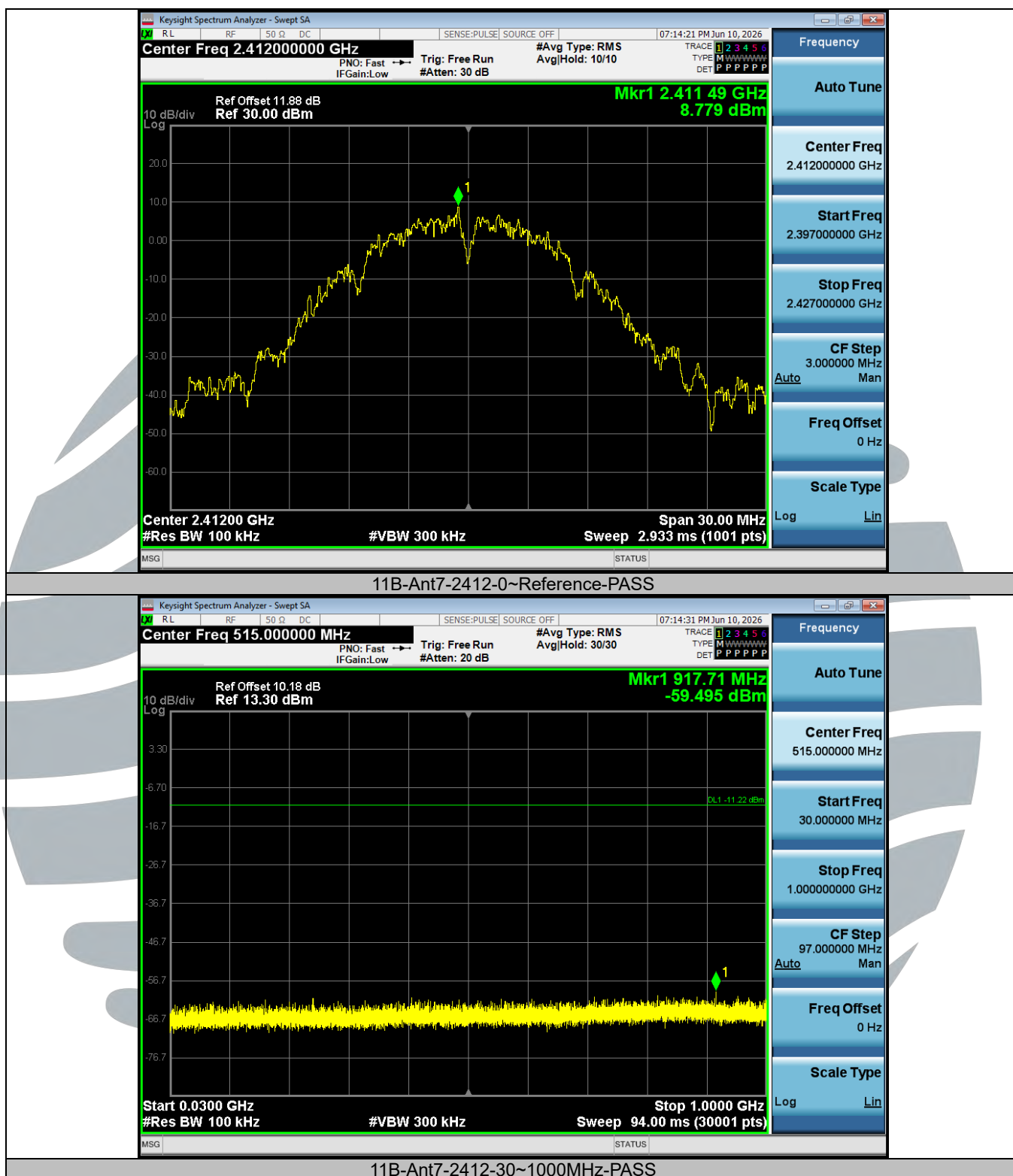
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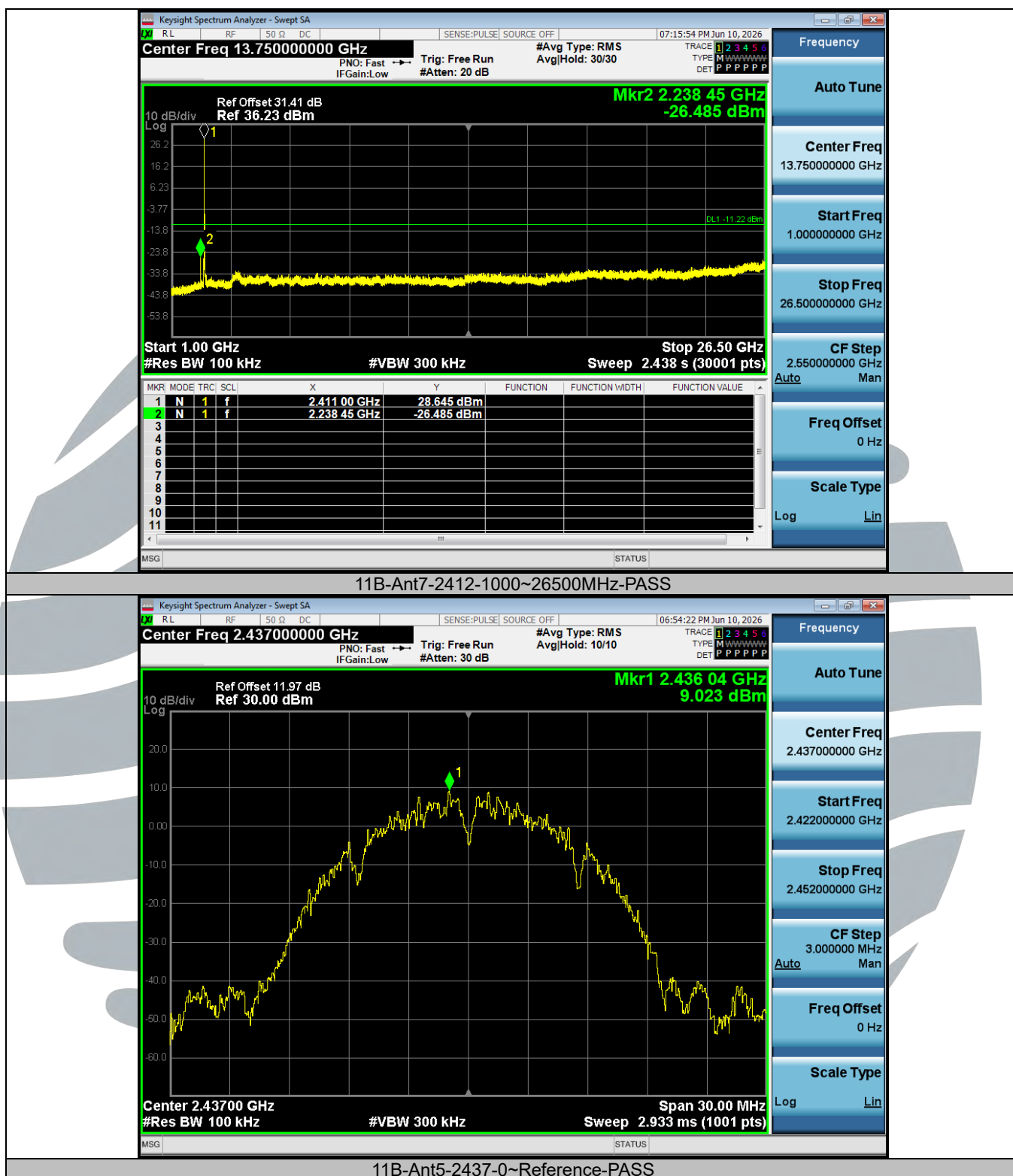
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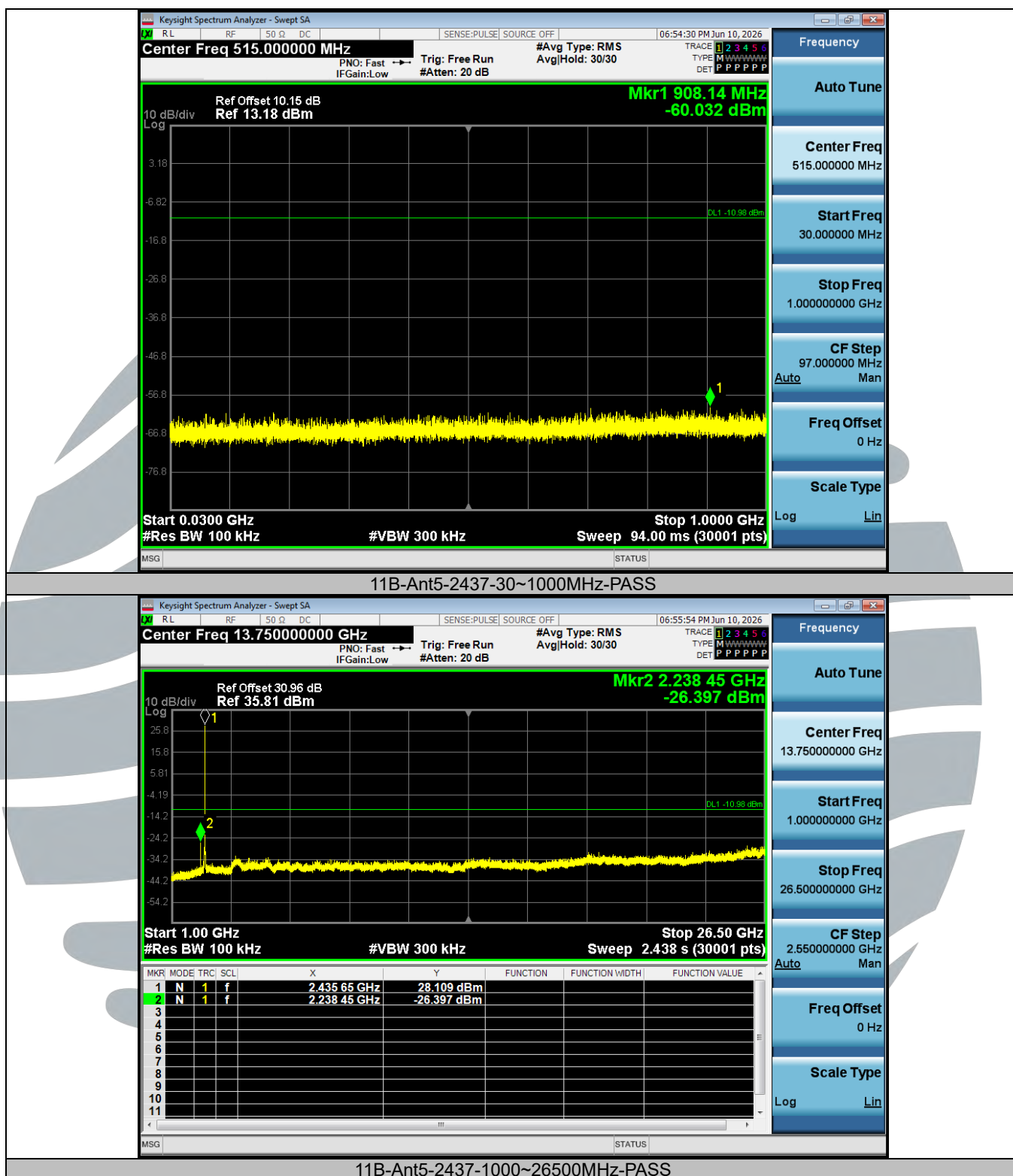
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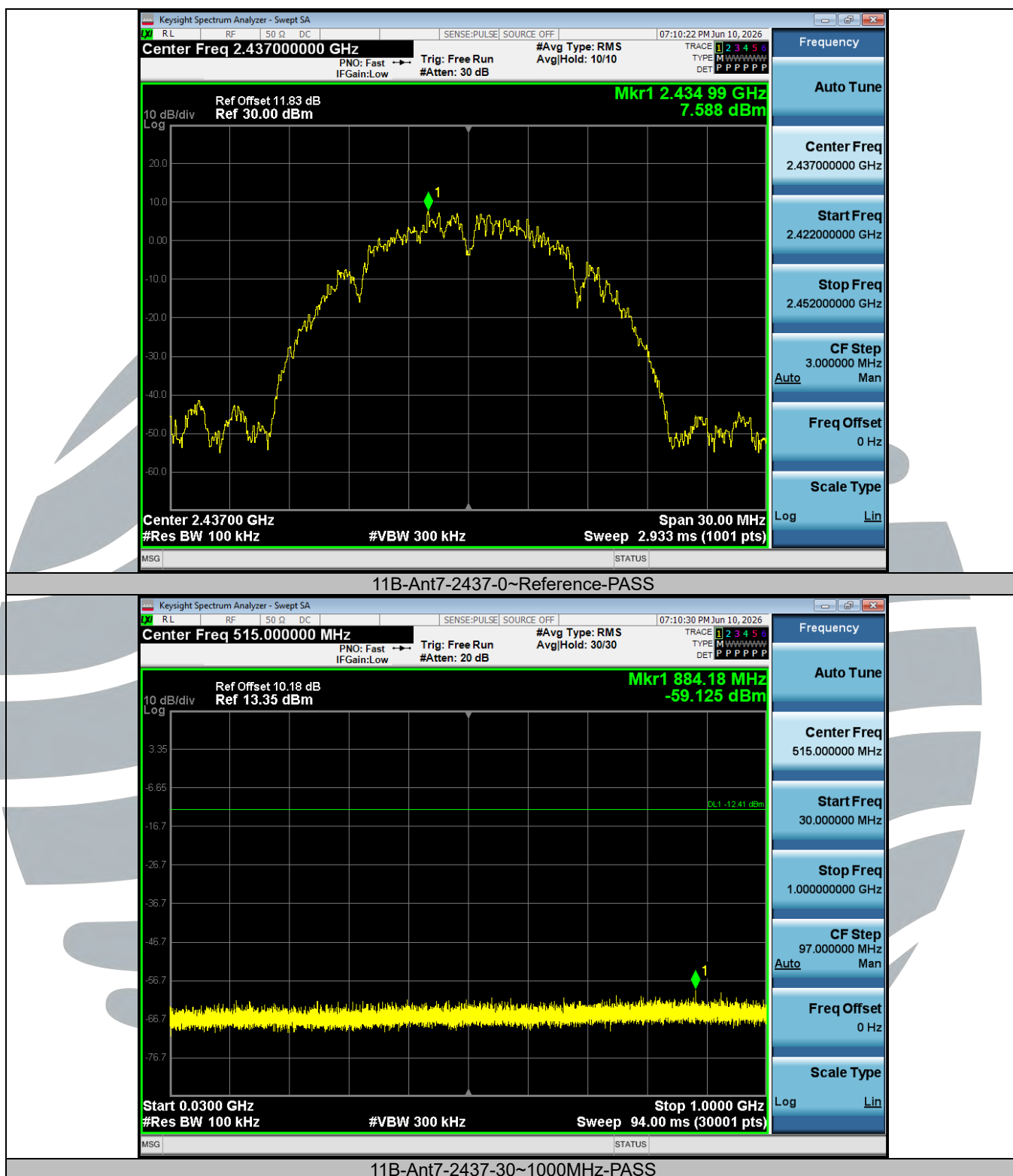
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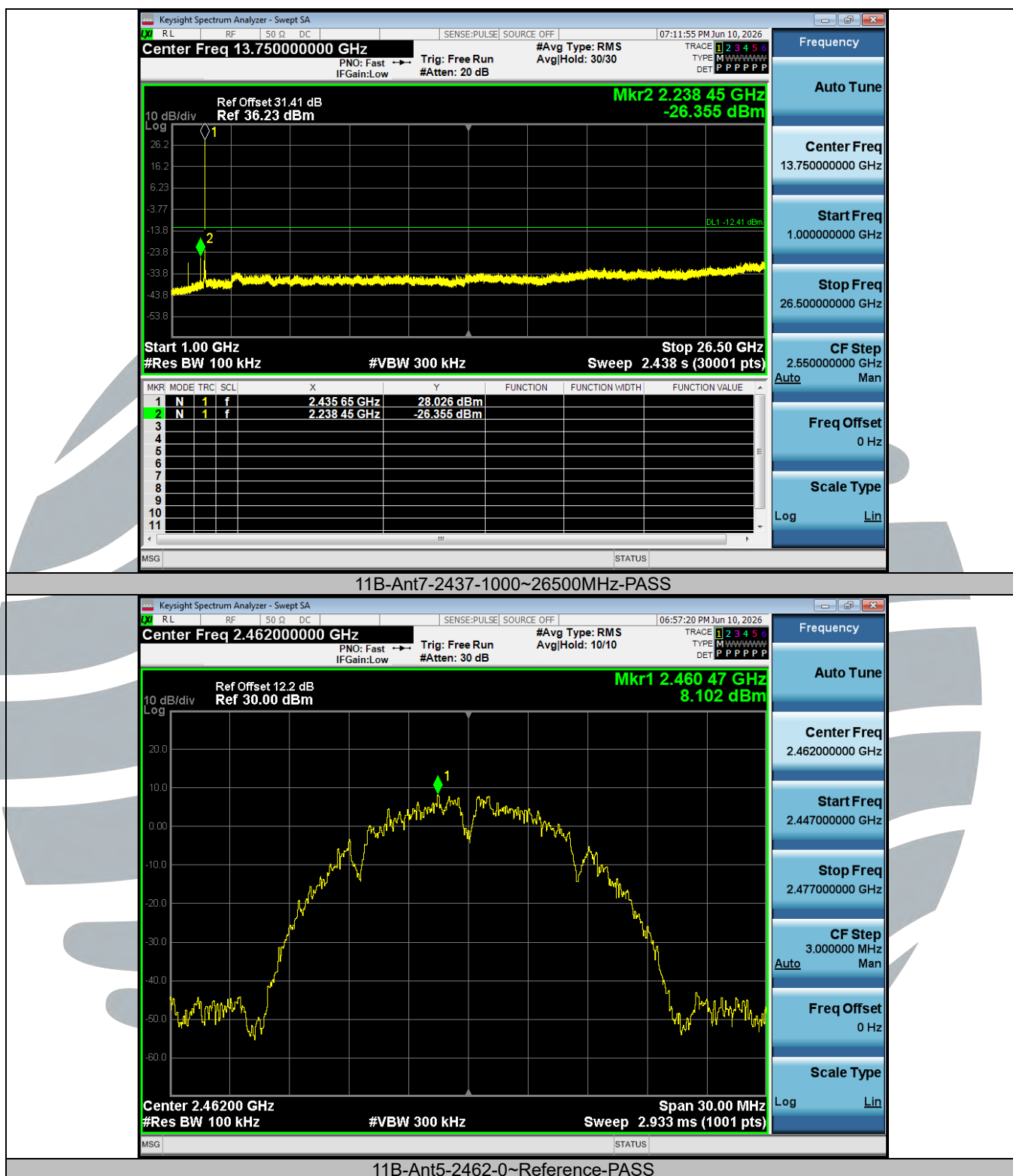
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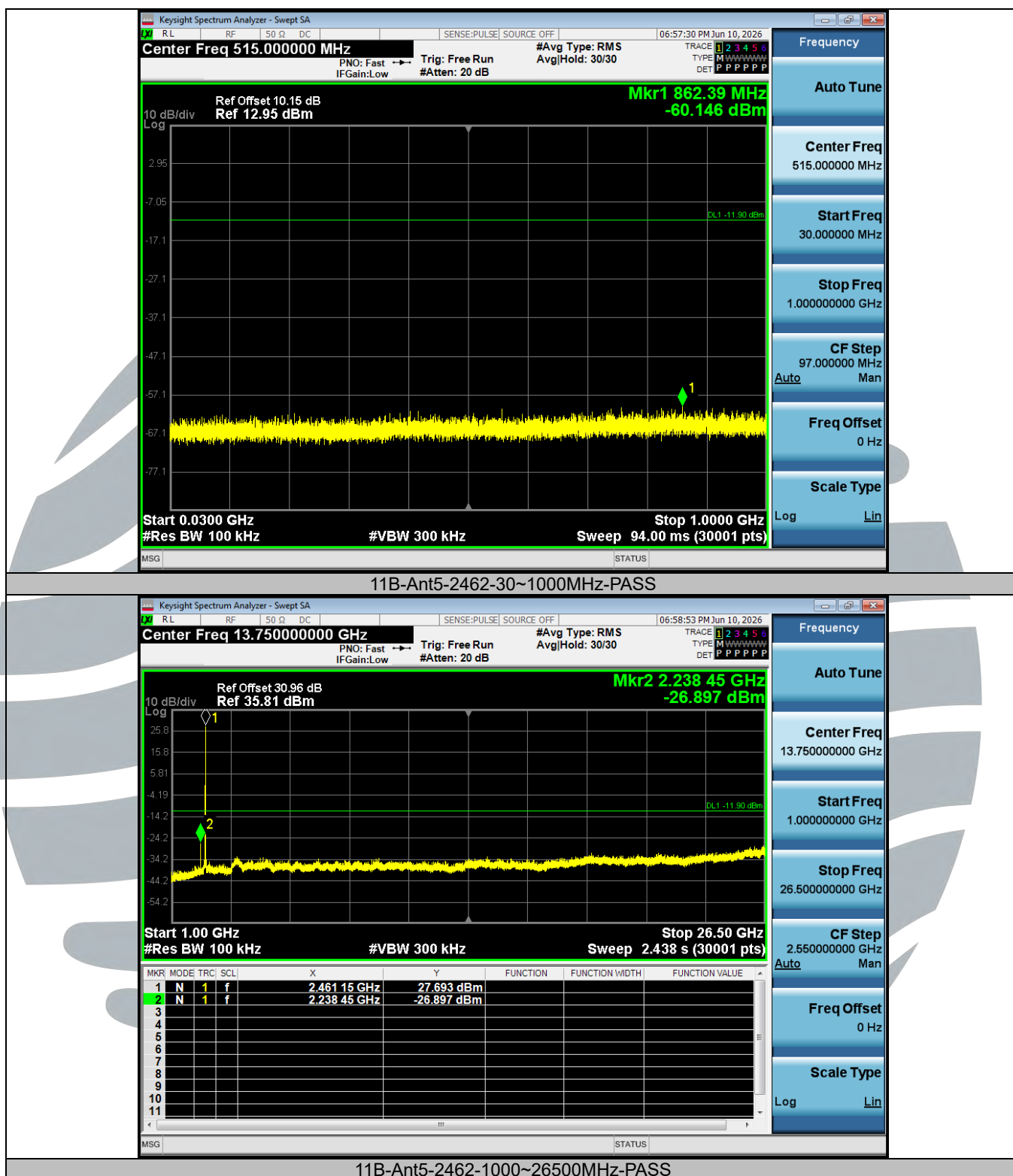
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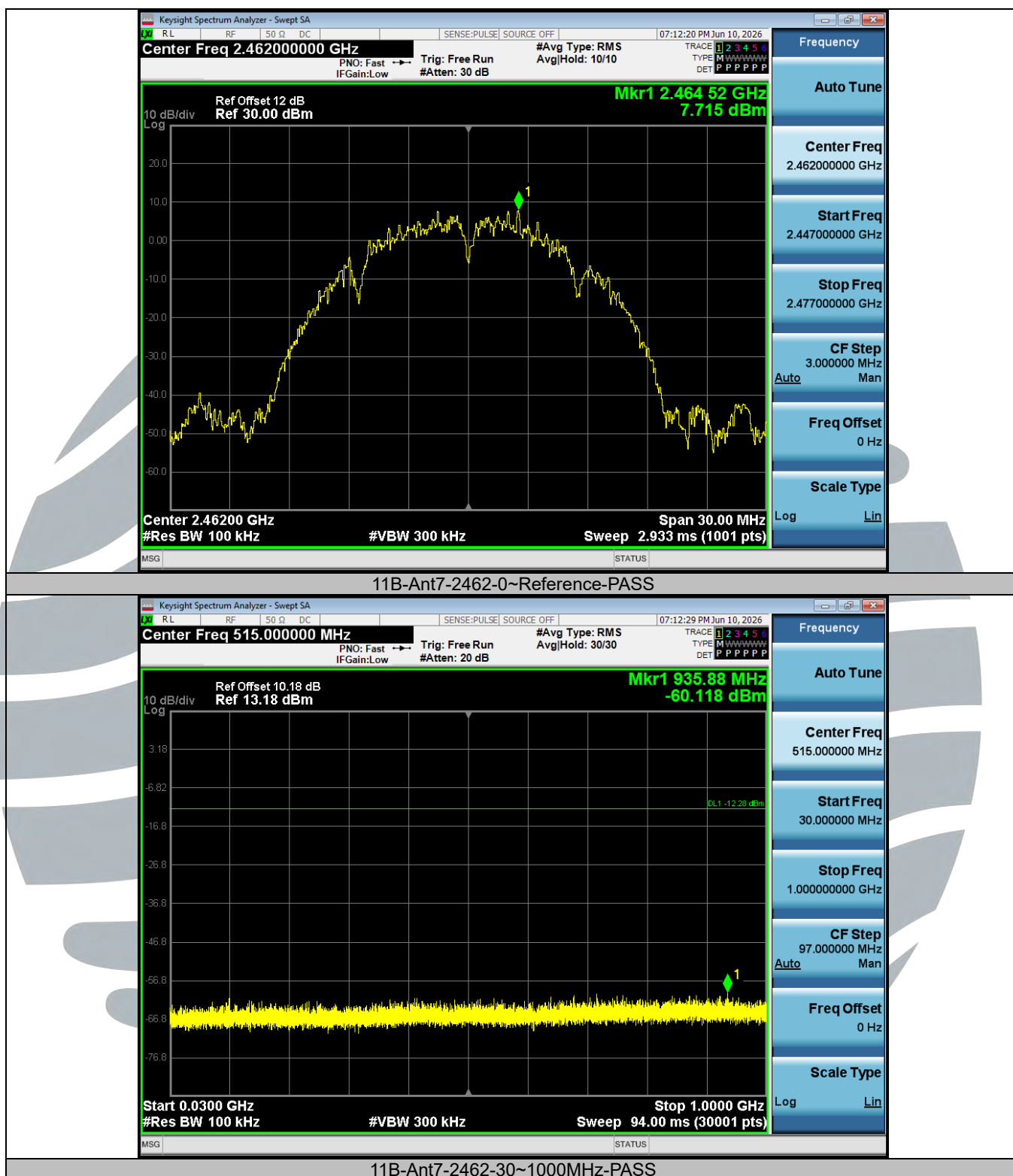
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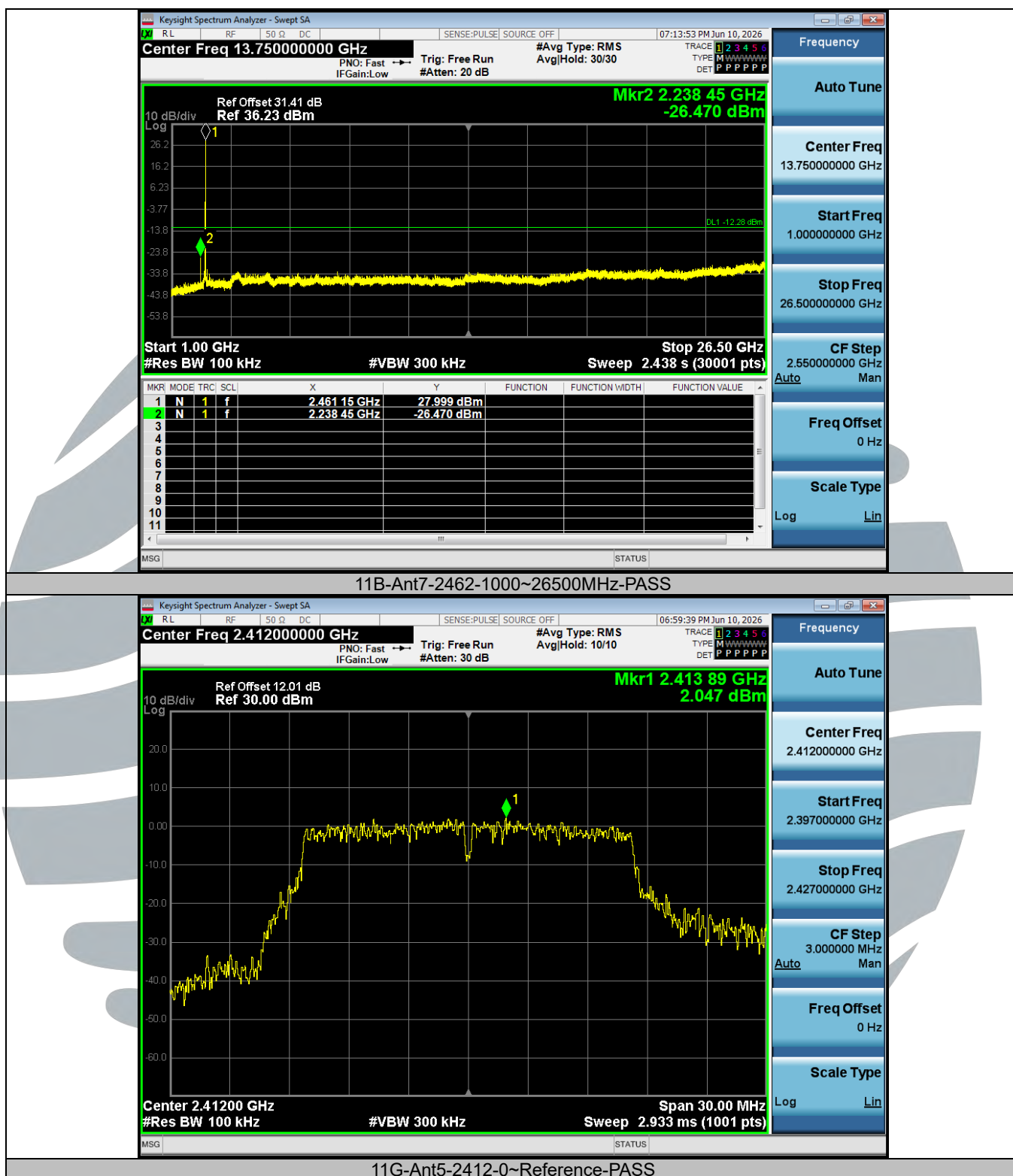
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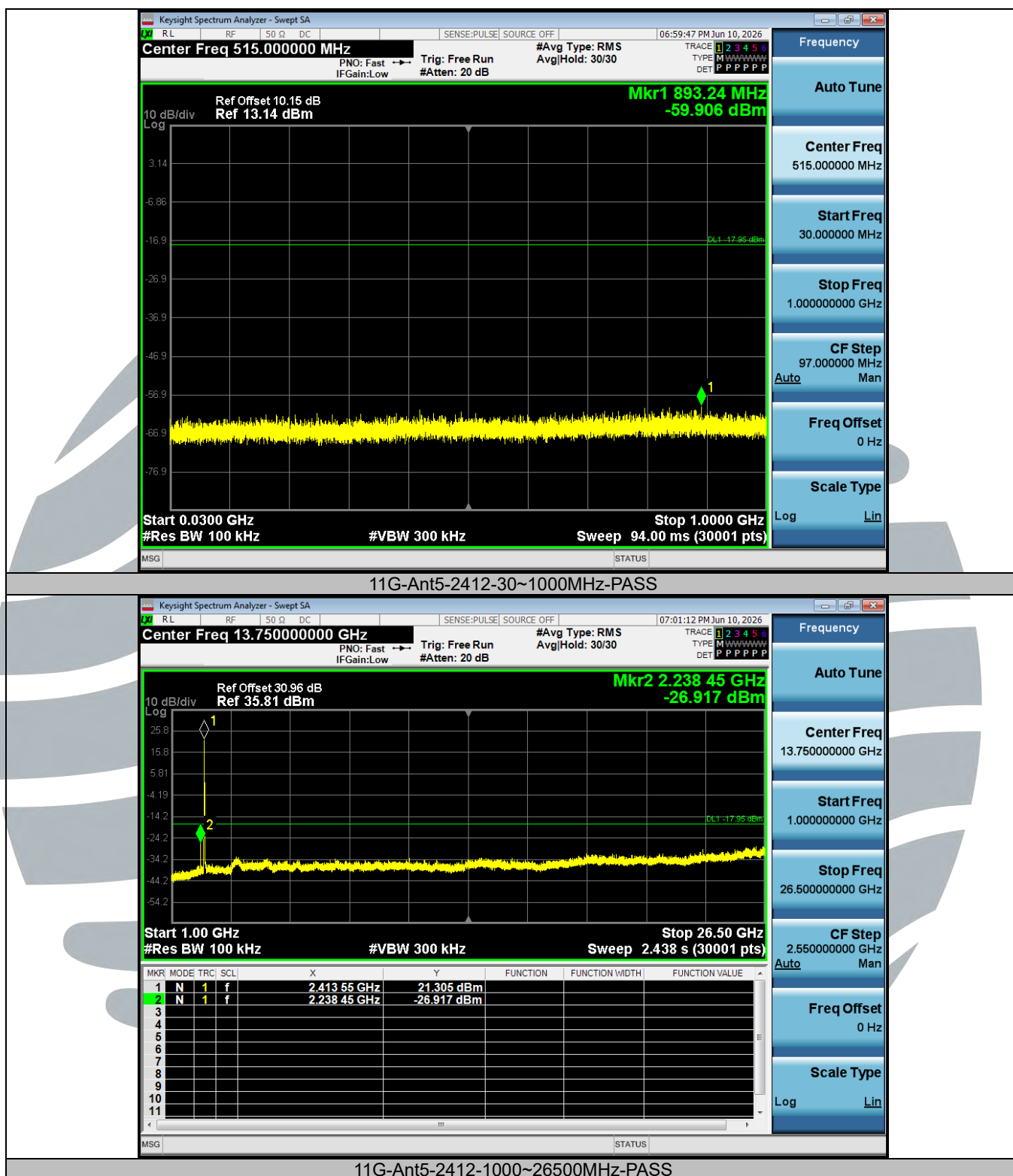
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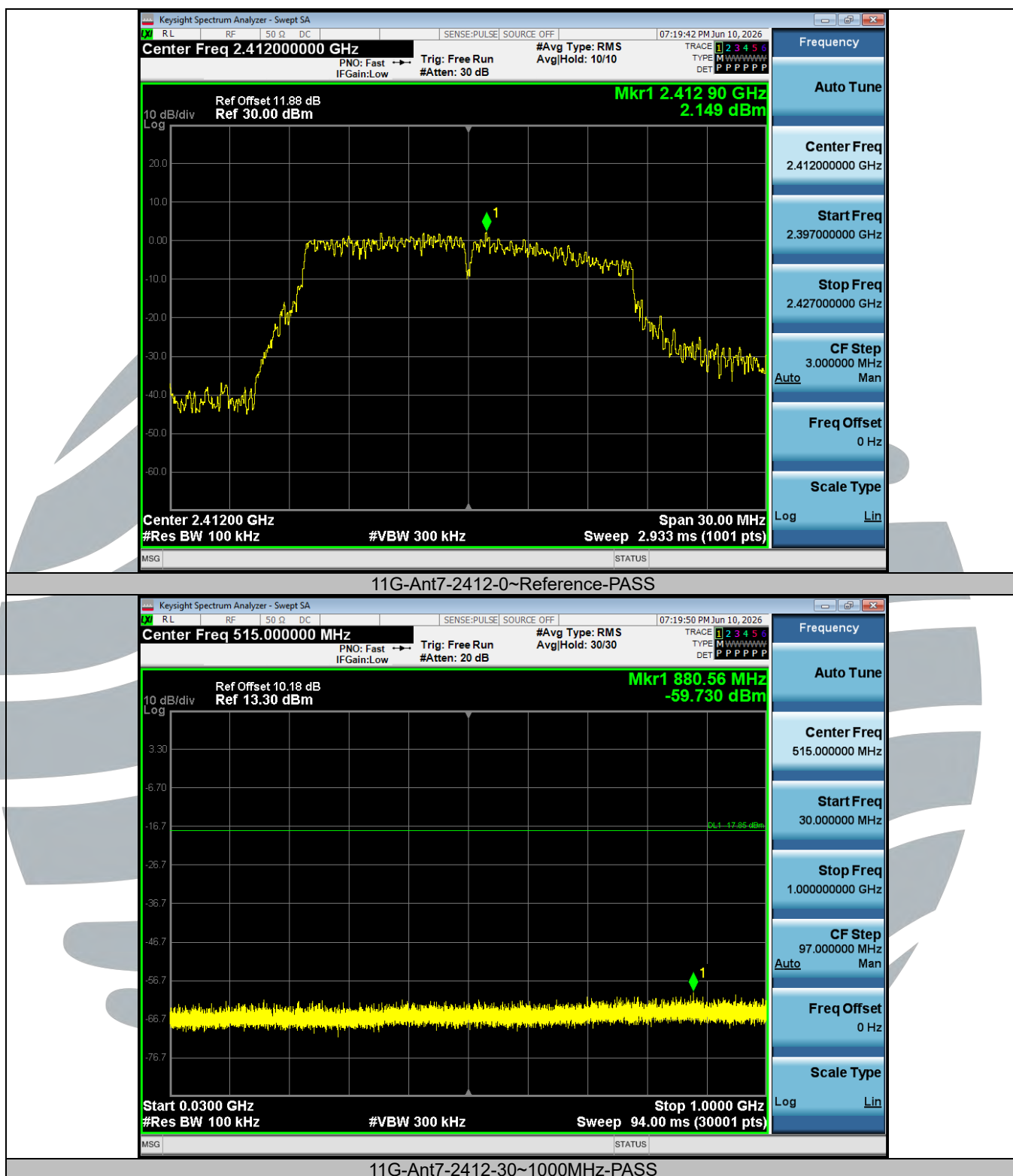
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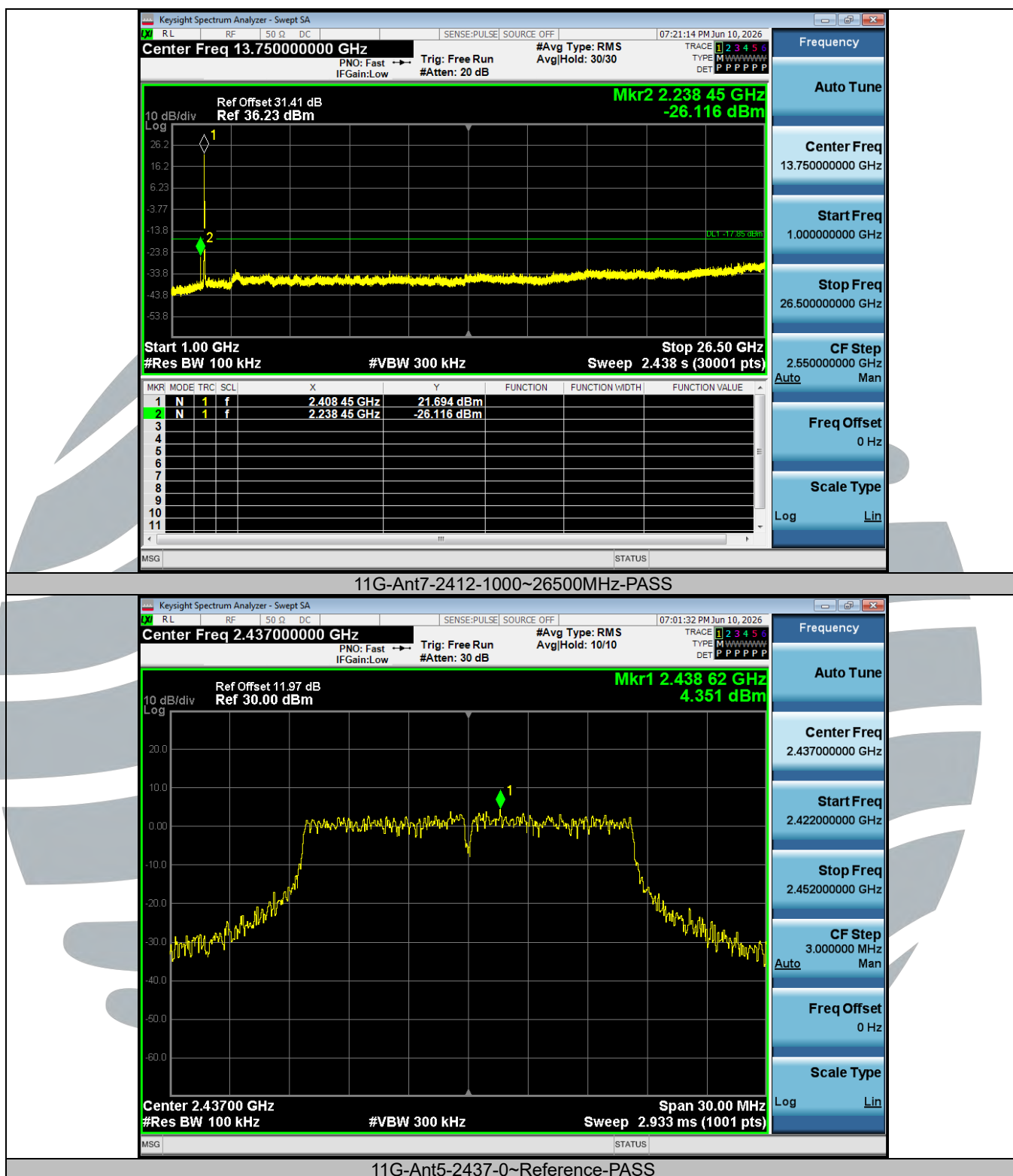
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