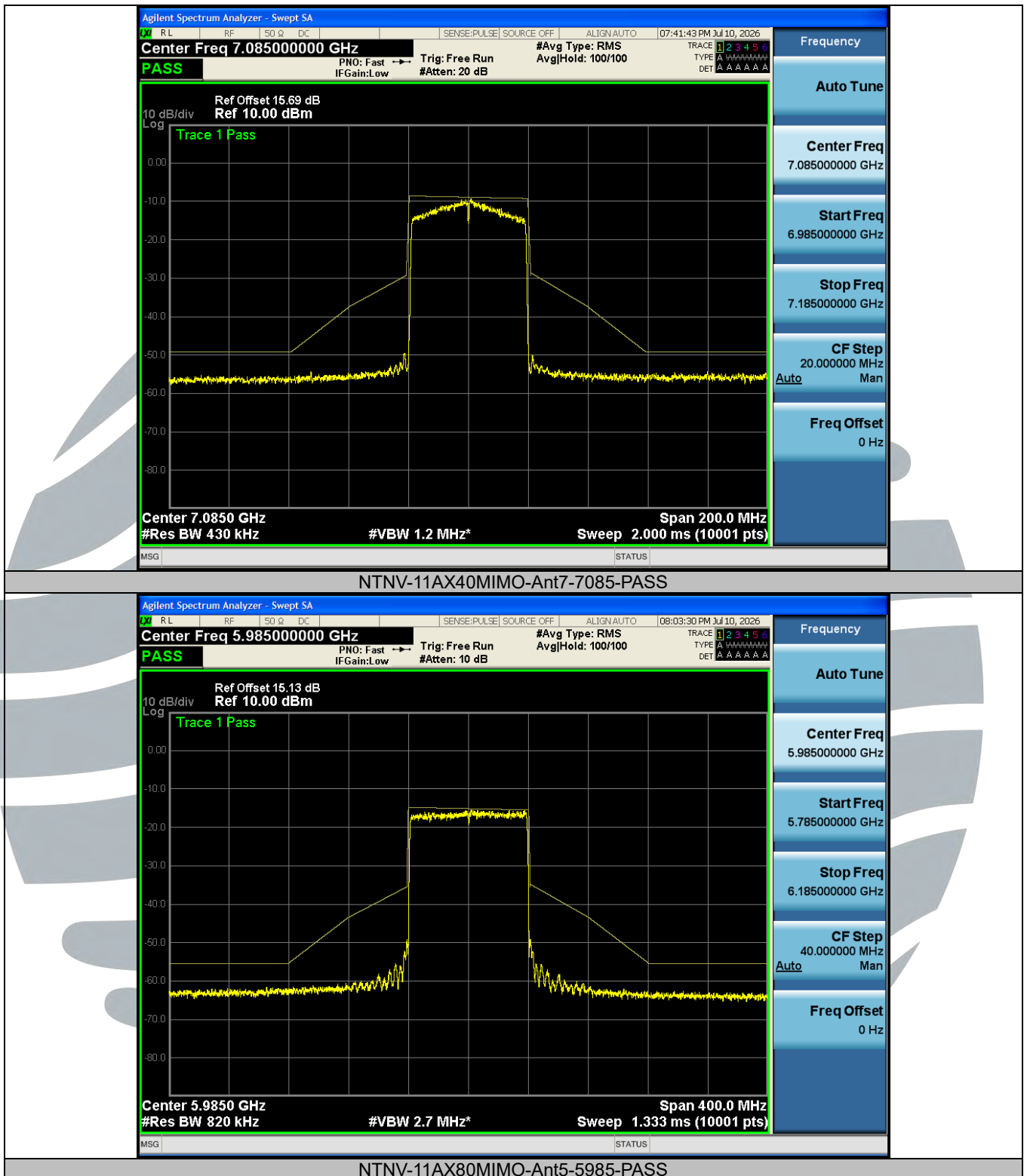




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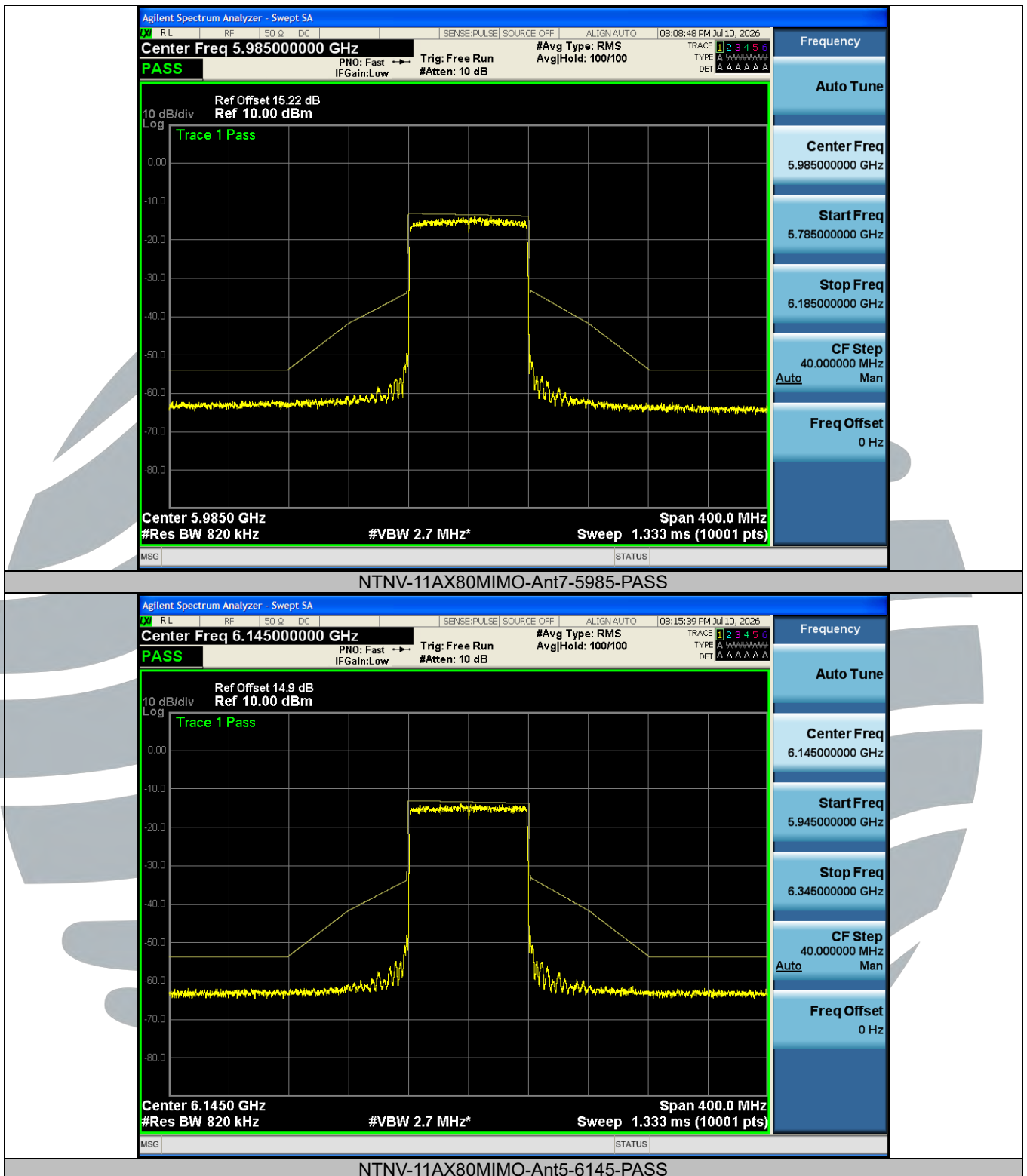
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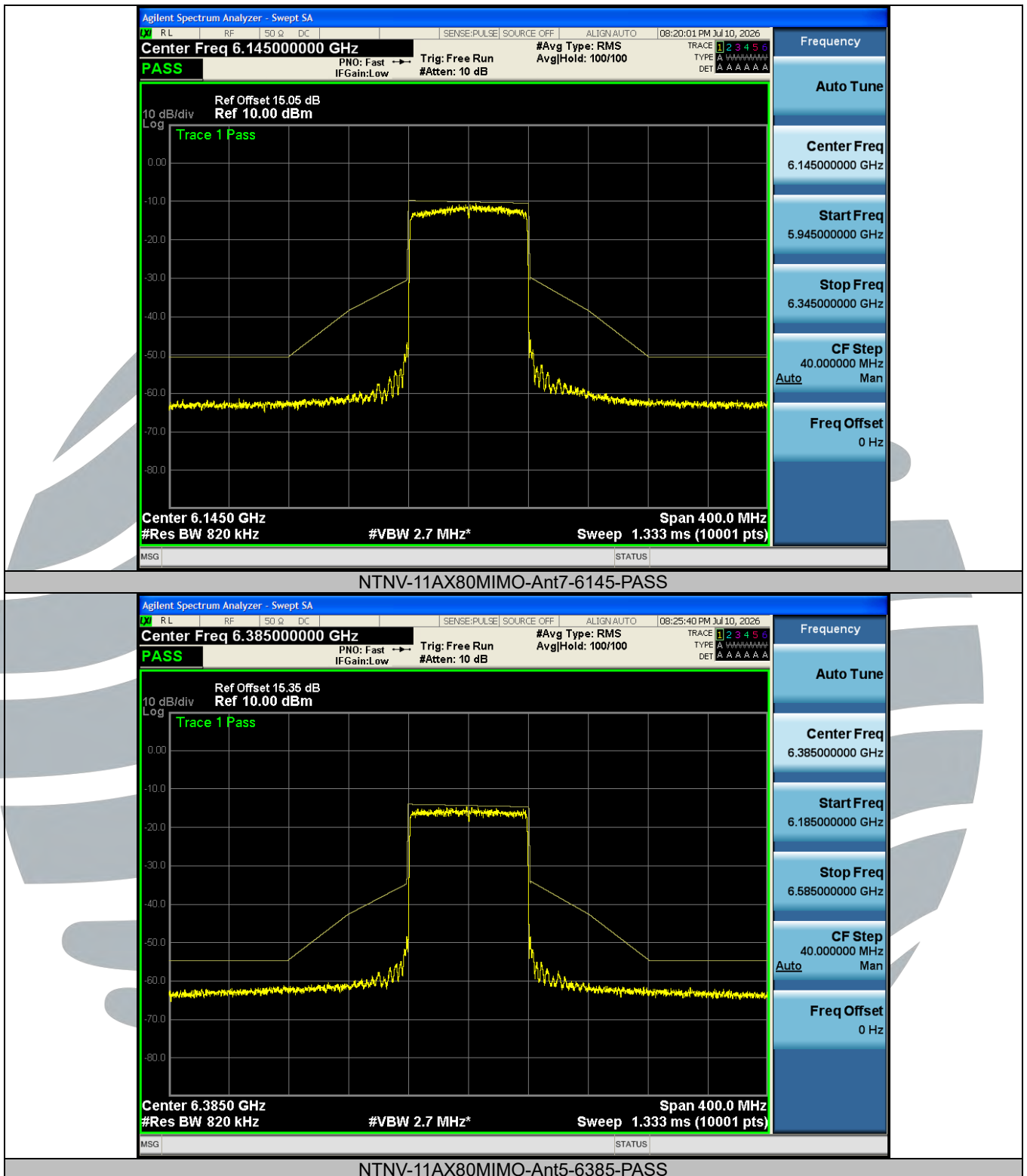
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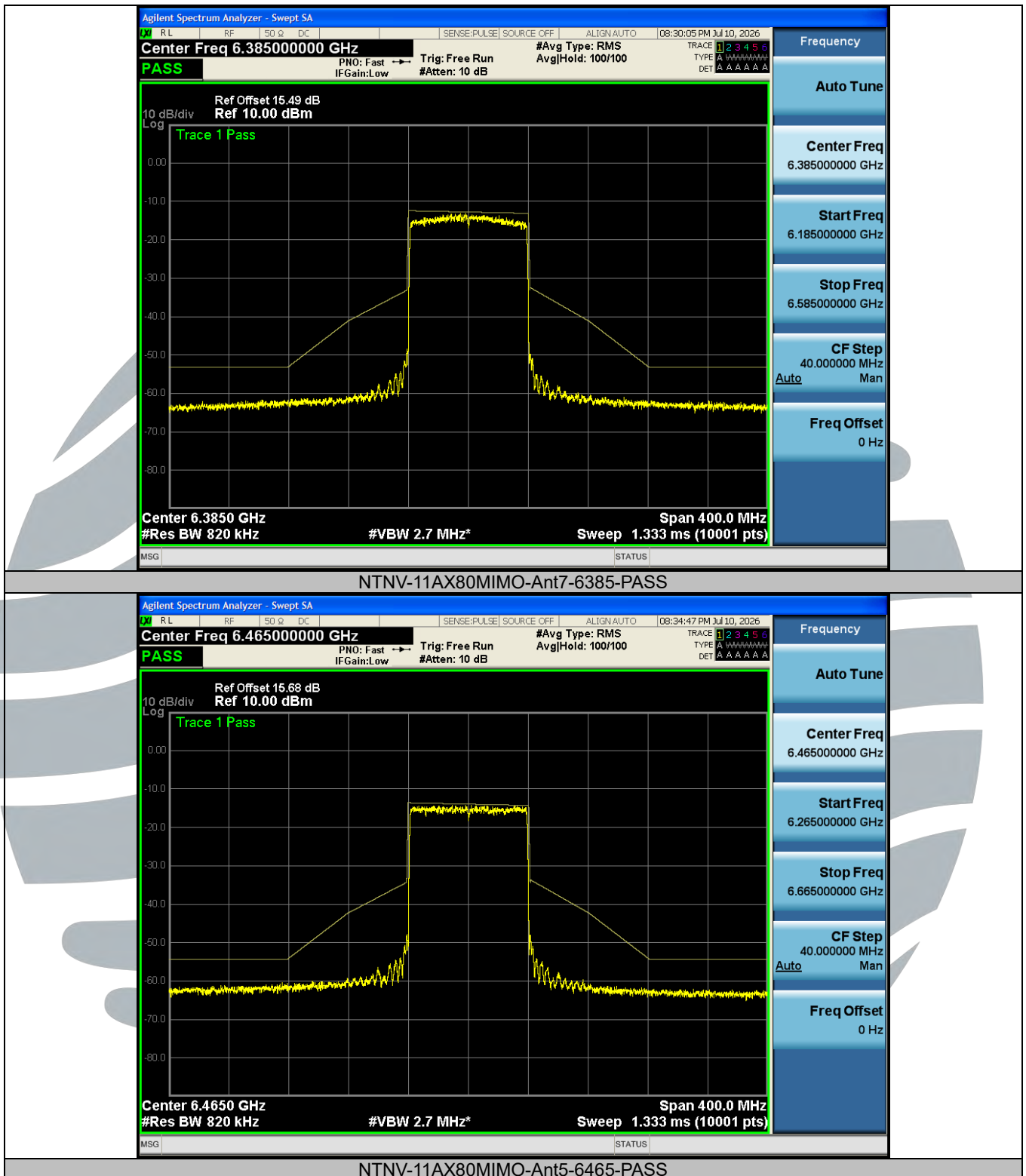
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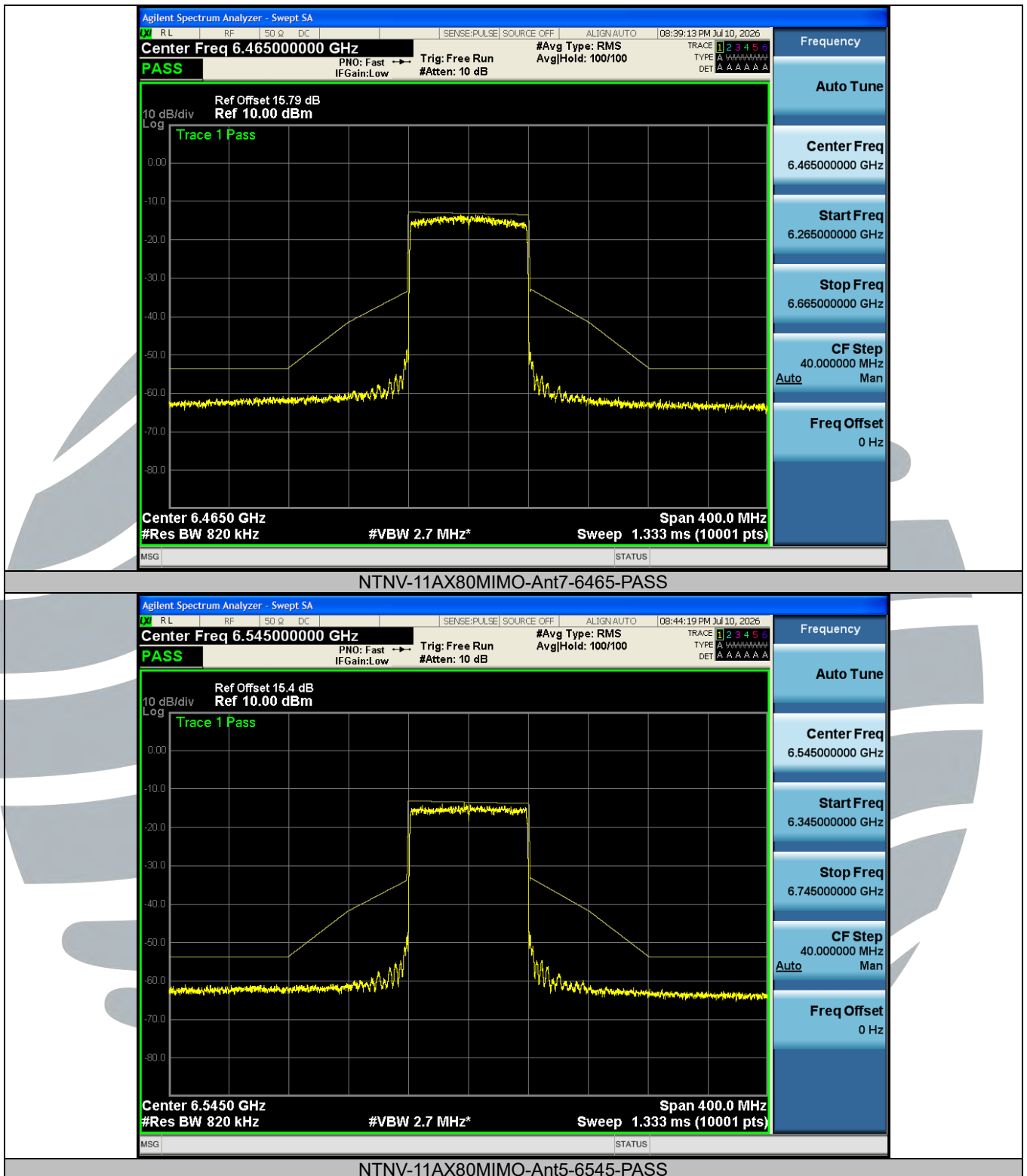
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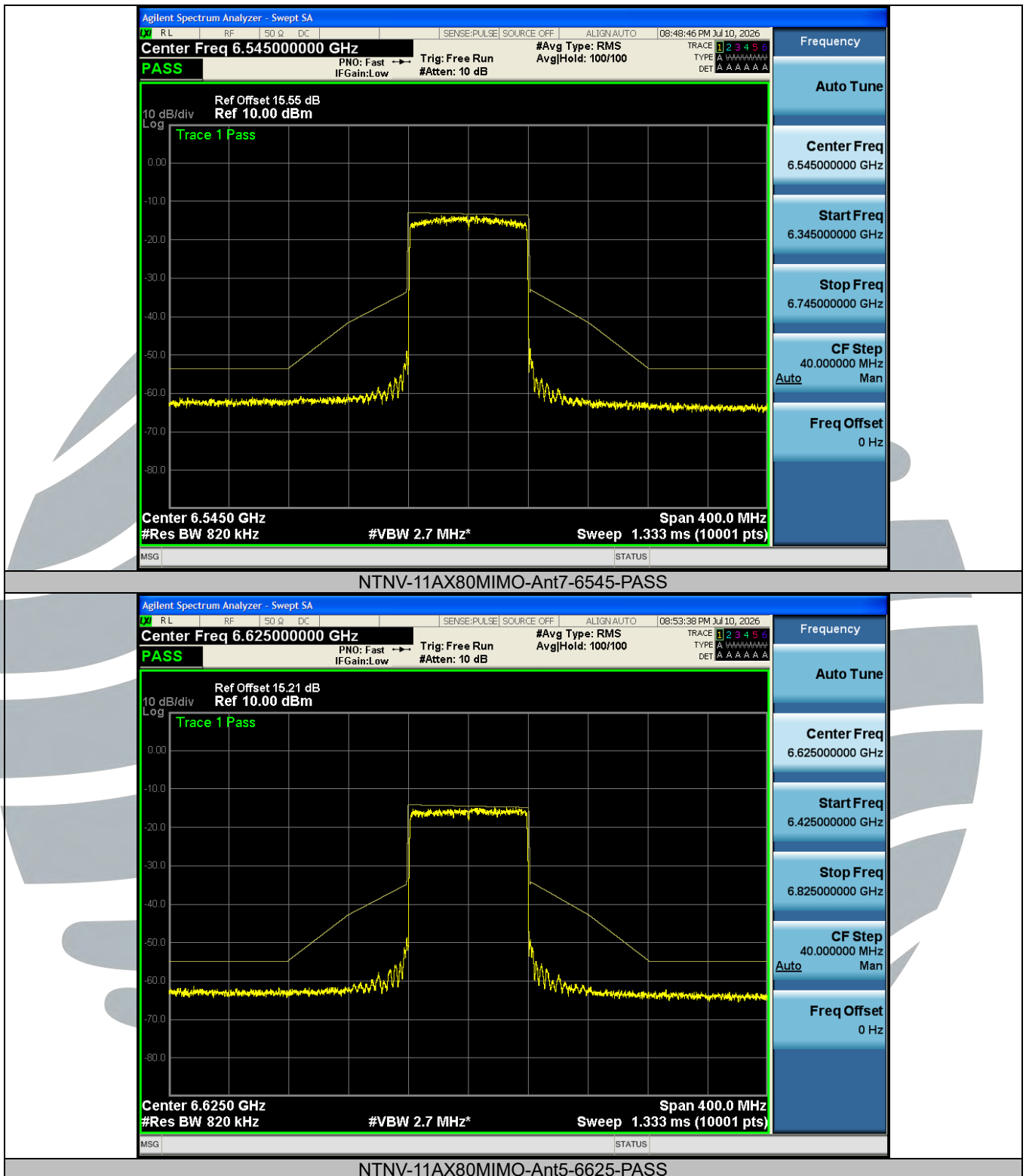
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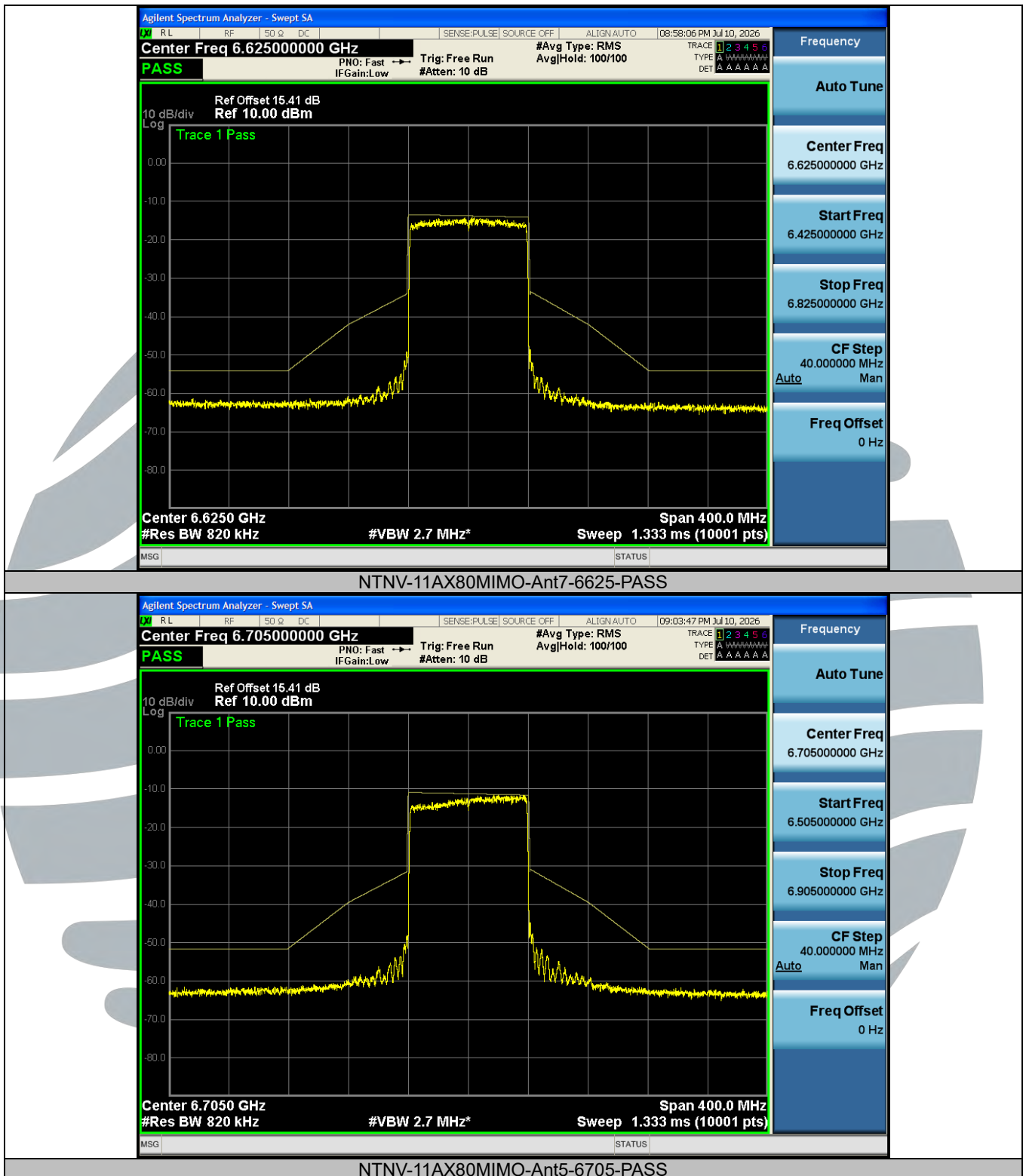
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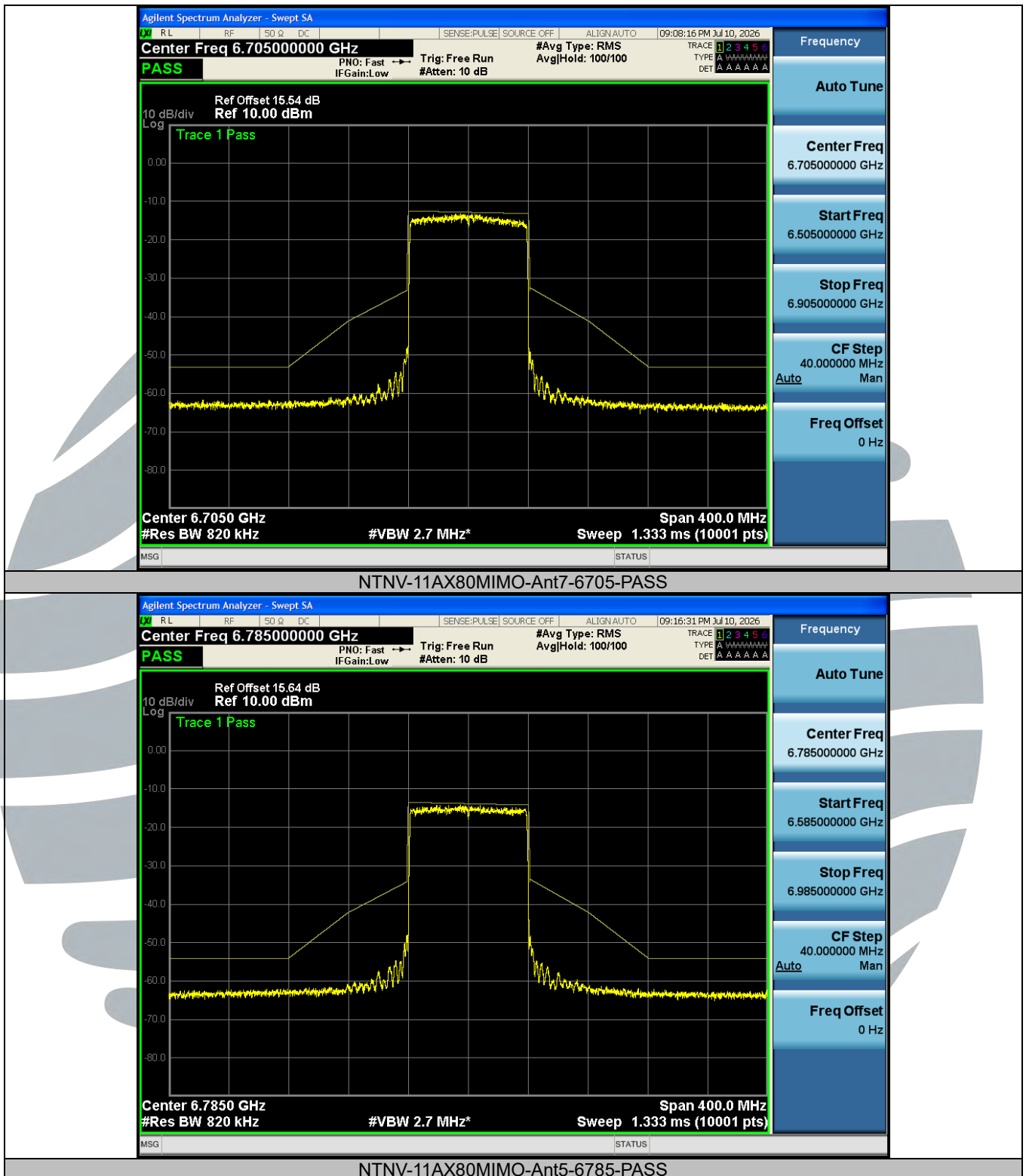
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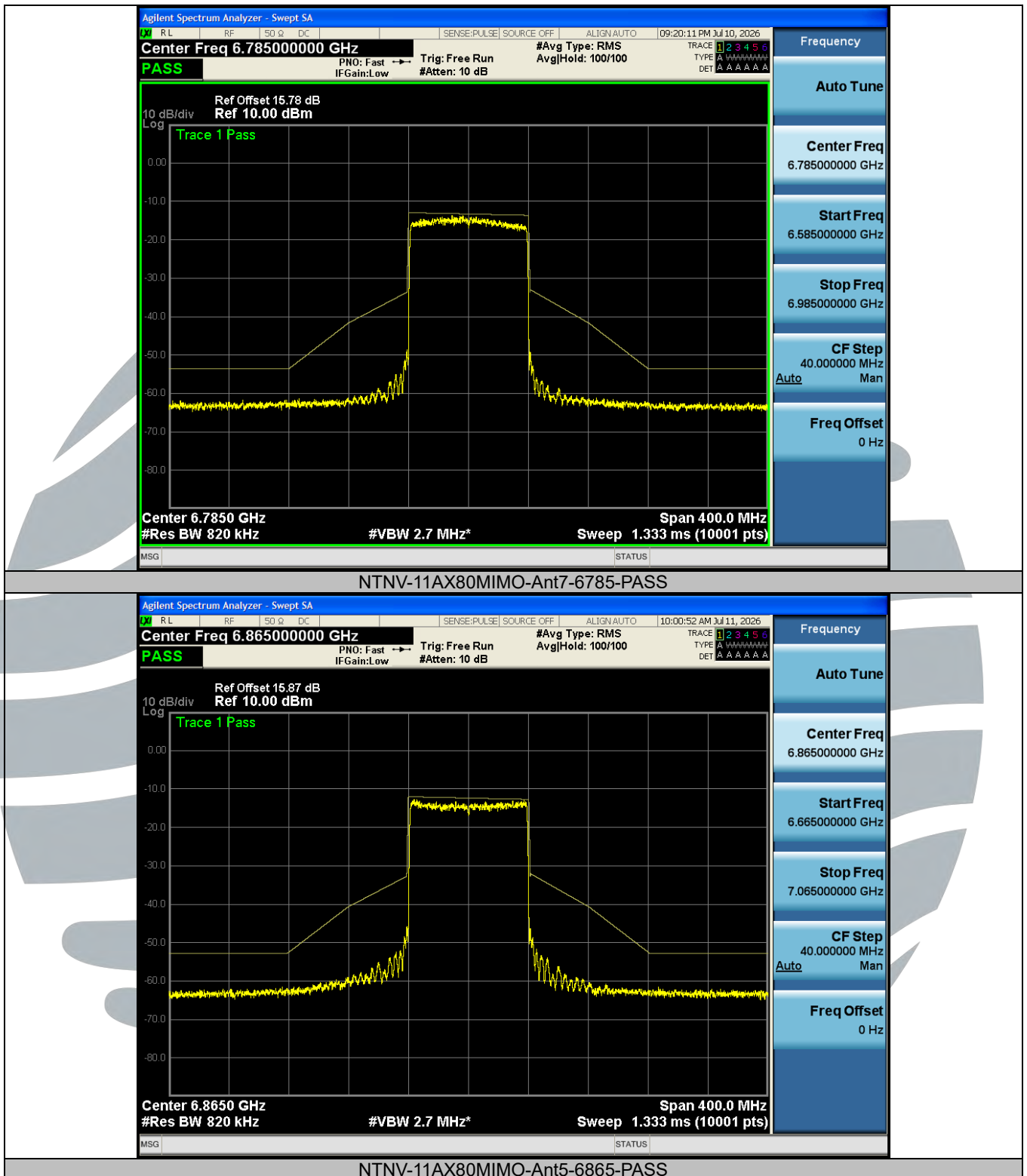
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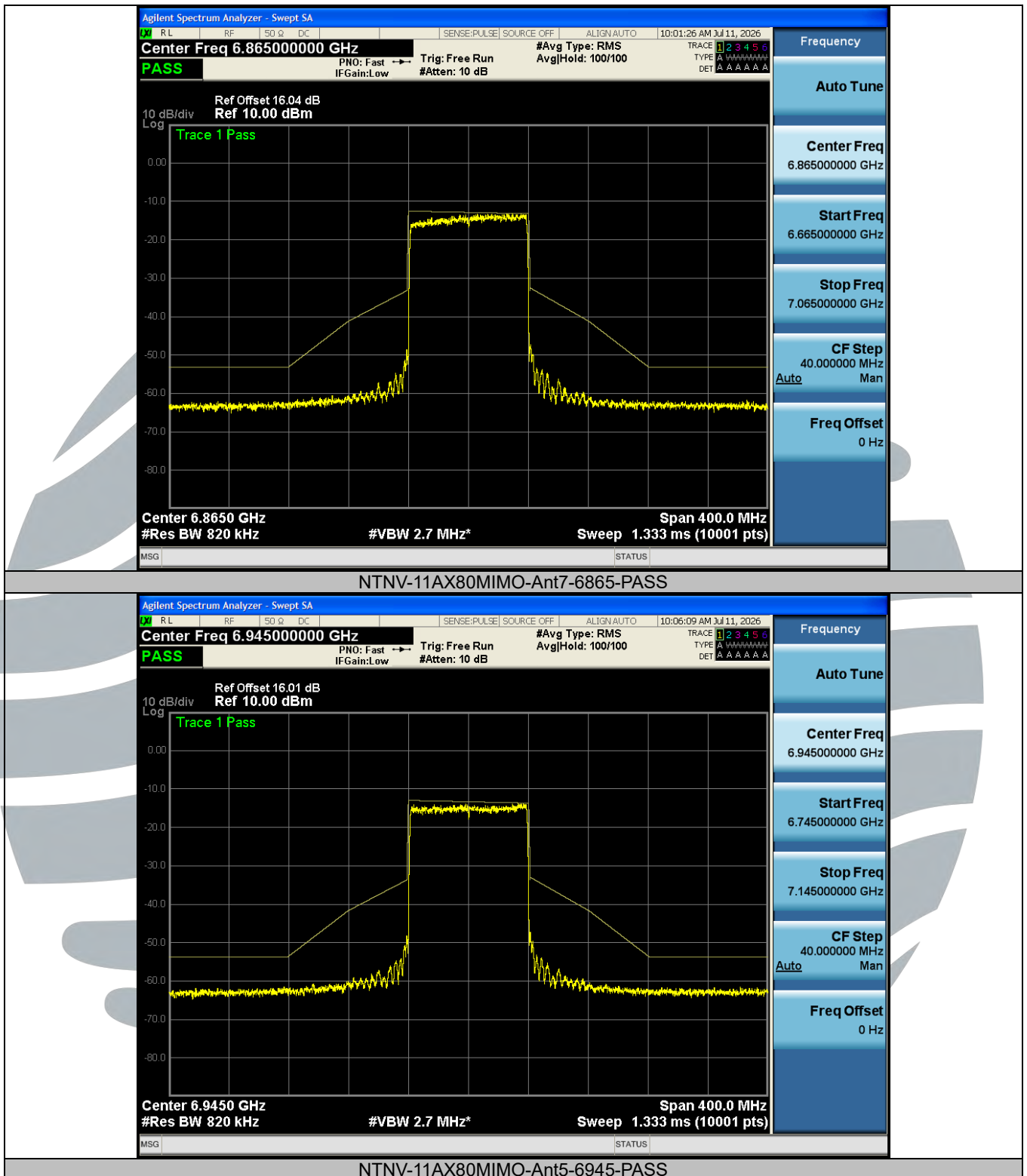
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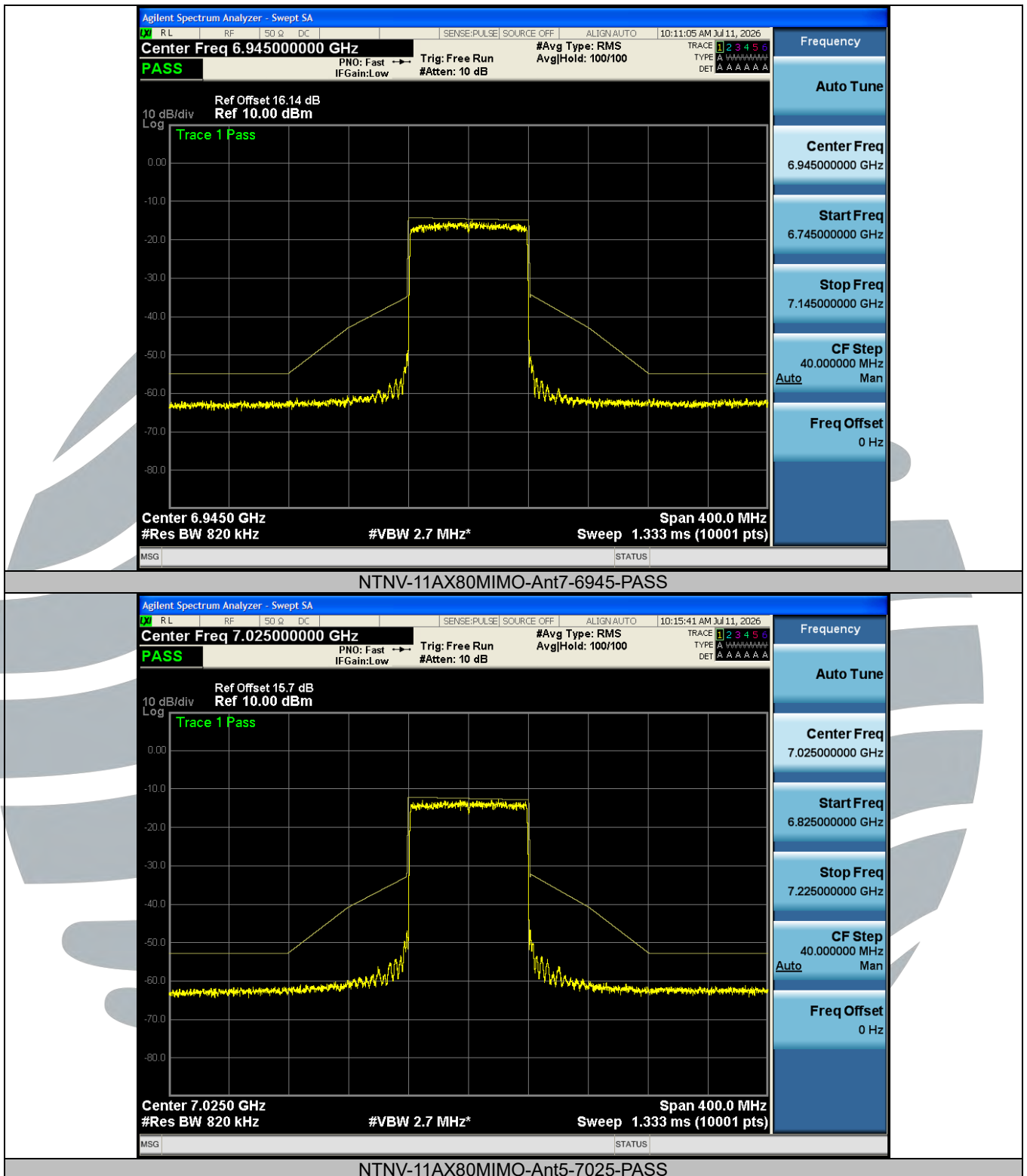
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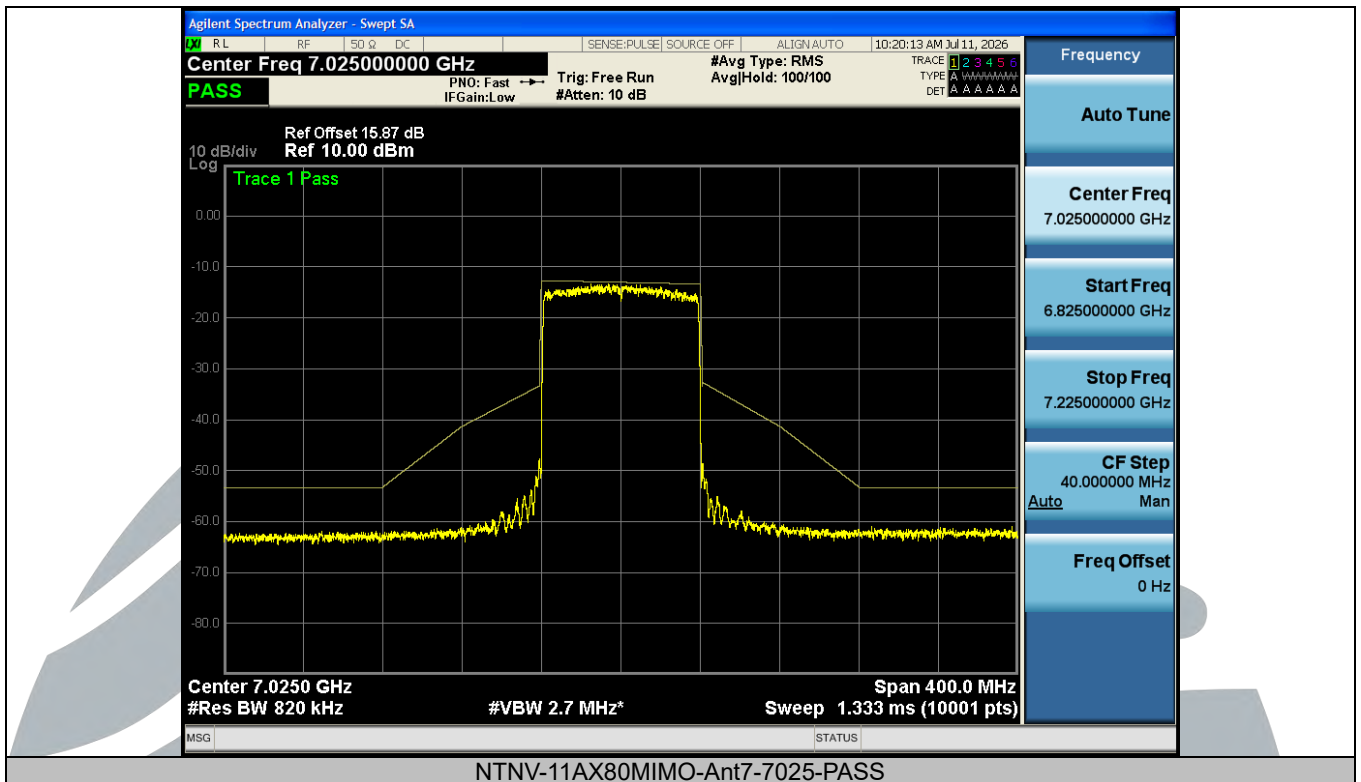
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5.8 CONTENTION BASED PROTOCOL

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 d(6)

Test Method: KDB 987594 D02 v02r01 Section II. I

Limits:

FCC 47 CFR Part 15 Subpart E Section 15.407 d(6)

All U-NII transmitters, except for standard power access points, operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

KDB 987594 D02 v03 Section II. I

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)¹. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal

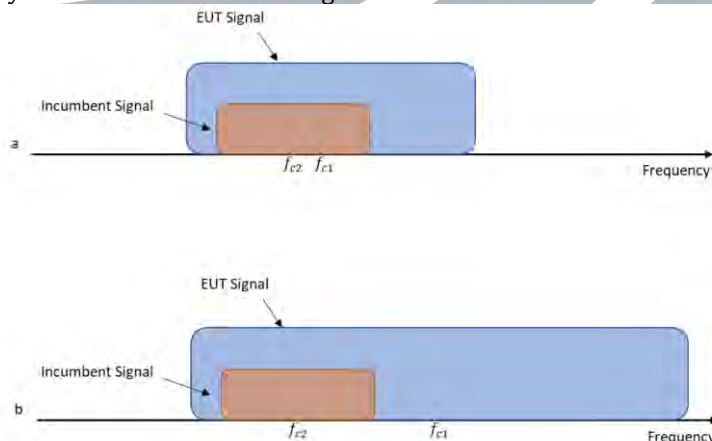


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

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Test Procedure:

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Test Setup:

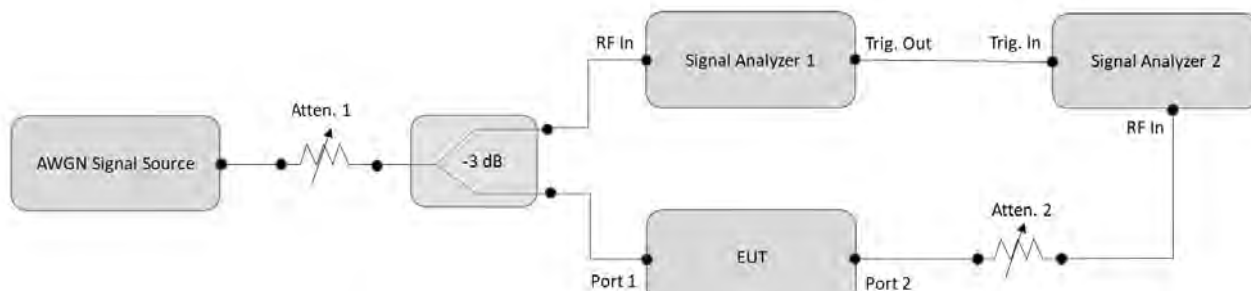


Figure 2. Contention-based protocol test setup, conducted method

Instruments Used: Refer to section 3 for details

Test Data:

Test Mode	Ch.	Interference Frequency [MHz]		Status	Awgn Power [dBm]	Gain [dB]	Path Loss [dB]	Adjusted Power [dBm]	Limit [dBm]	Detection Rate		Verdict
										Result [%]	Limit [%]	
11AX20	6135	Center	6135	OFF	-72.36	-2.41	0	-69.95	-62	90	90	PASS
11AX20	6135	Center	6135	Minimal	-73.13	-2.41	0	-70.72	-62	80	---	---
11AX20	6135	Center	6135	ON	-73.41	-2.41	0	-71.00	-62	---	---	---
11AX20	6455	Center	6455	OFF	-71.78	-2.58	0	-69.20	-62	100	90	PASS
11AX20	6455	Center	6455	Minimal	-72.51	-2.58	0	-69.93	-62	60	---	---
11AX20	6455	Center	6455	ON	-89.58	-2.58	0	-87.00	-62	---	---	---
11AX20	6535	Center	6535	OFF	-75.12	-4.16	0	-70.96	-62	90	90	PASS
11AX20	6535	Center	6535	Minimal	-75.61	-4.16	0	-71.45	-62	10	---	---
11AX20	6535	Center	6535	ON	-91.16	-4.16	0	-87.00	-62	---	---	---
11AX20	6935	Center	6935	OFF	-75.61	-3.55	0	-72.06	-62	100	90	PASS
11AX20	6935	Center	6935	Minimal	-76.09	-3.55	0	-72.54	-62	70	---	---
11AX20	6935	Center	6935	ON	-85.55	-3.55	0	-82.00	-62	---	---	---
11AX80	6225	Low	6190	OFF	-69.77	-2.41	0	-67.36	-62	90	90	PASS
11AX80	6225	High	6260	OFF	-68.02	-2.41	0	-65.61	-62	100	90	PASS
11AX80	6225	Center	6225	OFF	-67.01	-2.41	0	-64.60	-62	100	90	PASS
11AX80	6225	Center	6225	Minimal	-67.95	-2.41	0	-65.54	-62	40	---	---
11AX80	6225	High	6260	Minimal	-68.89	-2.41	0	-66.48	-62	10	---	---
11AX80	6225	Low	6190	Minimal	-70.59	-2.41	0	-68.18	-62	0	---	---
11AX80	6225	High	6260	ON	-79.41	-2.41	0	-77.00	-62	---	---	---
11AX80	6225	Low	6190	ON	-83.41	-2.41	0	-81.00	-62	---	---	---
11AX80	6225	Center	6225	ON	-83.41	-2.41	0	-81.00	-62	---	---	---
11AX80	6465	Low	6430	OFF	-69.29	-2.58	0	-66.71	-62	100	90	PASS
11AX80	6465	Center	6465	OFF	-68.53	-2.58	0	-65.95	-62	100	90	PASS
11AX80	6465	High	6500	OFF	-68.53	-2.58	0	-65.95	-62	100	90	PASS
11AX80	6465	Low	6430	Minimal	-70.13	-2.58	0	-67.55	-62	20	---	---
11AX80	6465	Center	6465	Minimal	-69.37	-2.58	0	-66.79	-62	0	---	---
11AX80	6465	High	6500	Minimal	-69.4	-2.58	0	-66.82	-62	80	---	---
11AX80	6465	Low	6430	ON	-89.58	-2.58	0	-87.00	-62	---	---	---
11AX80	6465	Center	6465	ON	-89.58	-2.58	0	-87.00	-62	---	---	---
11AX80	6465	High	6500	ON	-89.58	-2.58	0	-87.00	-62	---	---	---
11AX80	6705	Low	6670	OFF	-68.95	-4.16	0	-64.79	-62	100	90	PASS
11AX80	6705	Center	6705	OFF	-70.72	-4.16	0	-66.56	-62	90	90	PASS
11AX80	6705	High	6740	OFF	-69.73	-4.16	0	-65.57	-62	100	90	PASS
11AX80	6705	Low	6670	Minimal	-69.86	-4.16	0	-65.70	-62	40	---	---
11AX80	6705	Center	6705	Minimal	-71.55	-4.16	0	-67.39	-62	10	---	---
11AX80	6705	High	6740	Minimal	-70.62	-4.16	0	-66.46	-62	10	---	---
11AX80	6705	Low	6670	ON	-91.16	-4.16	0	-87.00	-62	---	---	---
11AX80	6705	Center	6705	ON	-91.16	-4.16	0	-87.00	-62	---	---	---
11AX80	6705	High	6740	ON	-91.16	-4.16	0	-87.00	-62	---	---	---
11AX80	6945	Low	6910	OFF	-70.72	-3.55	0	-67.17	-62	100	90	PASS
11AX80	6945	Center	6945	OFF	-72.33	-3.55	0	-68.78	-62	100	90	PASS
11AX80	6945	High	6980	OFF	-70.8	-3.55	0	-67.25	-62	100	90	PASS
11AX80	6945	Low	6910	Minimal	-71.55	-3.55	0	-68.00	-62	60	---	---
11AX80	6945	Center	6945	Minimal	-73.11	-3.55	0	-69.56	-62	40	---	---
11AX80	6945	High	6980	Minimal	-71.67	-3.55	0	-68.12	-62	40	---	---
11AX80	6945	Low	6910	ON	-90.55	-3.55	0	-87.00	-62	---	---	---
11AX80	6945	Center	6945	ON	-90.55	-3.55	0	-87.00	-62	---	---	---
11AX80	6945	High	6980	ON	-90.55	-3.55	0	-87.00	-62	---	---	---

Note: Adjusted Power= Injected AWGN Power - Antenna Gain + Path Loss

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Test Mode	Ch.	Interference Frequency [MHz]		Status	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	Rate [%]	Limit [%]	Verdict
11AX20	6135	Center	6135	OFF	1	0	1	1	1	1	1	1	1	1	90	90	PASS
11AX20	6135	Center	6135	Minimal	---	---	---	---	---	---	---	---	---	---	80	---	---
11AX20	6135	Center	6135	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX20	6455	Center	6455	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX20	6455	Center	6455	Minimal	---	---	---	---	---	---	---	---	---	---	60	---	---
11AX20	6455	Center	6455	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX20	6535	Center	6535	OFF	1	1	1	1	1	0	1	1	1	1	90	90	PASS
11AX20	6535	Center	6535	Minimal	---	---	---	---	---	---	---	---	---	---	10	---	---
11AX20	6535	Center	6535	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX20	6935	Center	6935	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX20	6935	Center	6935	Minimal	---	---	---	---	---	---	---	---	---	---	70	---	---
11AX20	6935	Center	6935	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX80	6225	Low	6190	OFF	1	1	1	1	1	1	1	1	0	1	90	90	PASS
11AX80	6225	Center	6225	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6225	High	6260	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6225	Low	6190	Minimal	---	---	---	---	---	---	---	---	---	---	0	---	---
11AX80	6225	Center	6225	Minimal	---	---	---	---	---	---	---	---	---	---	40	---	---
11AX80	6225	High	6260	Minimal	---	---	---	---	---	---	---	---	---	---	10	---	---
11AX80	6225	Low	6190	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX80	6225	Center	6225	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX80	6225	High	6260	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX80	6465	Low	6430	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6465	Center	6465	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6465	High	6500	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6465	Low	6430	Minimal	---	---	---	---	---	---	---	---	---	---	20	---	---
11AX80	6465	Center	6465	Minimal	---	---	---	---	---	---	---	---	---	---	0	---	---
11AX80	6465	High	6500	Minimal	---	---	---	---	---	---	---	---	---	---	80	---	---
11AX80	6465	Low	6430	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX80	6465	Center	6465	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
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11AX80	6705	Low	6670	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6705	Center	6705	OFF	1	1	1	1	1	0	1	1	1	1	90	90	PASS
11AX80	6705	High	6740	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6705	Low	6670	Minimal	---	---	---	---	---	---	---	---	---	---	40	---	---
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11AX80	6705	High	6740	ON	---	---	---	---	---	---	---	---	---	---	---	---	---
11AX80	6945	Low	6910	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6945	Center	6945	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11AX80	6945	High	6980	OFF	1	1	1	1	1	1	1	1	1	1	100	90	PASS
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11AX80	6945	High	6980	ON	---	---	---	---	---	---	---	---	---	---	---	---	---

Note: CBP Detection Trials (1=Detection, 0=No Detection).

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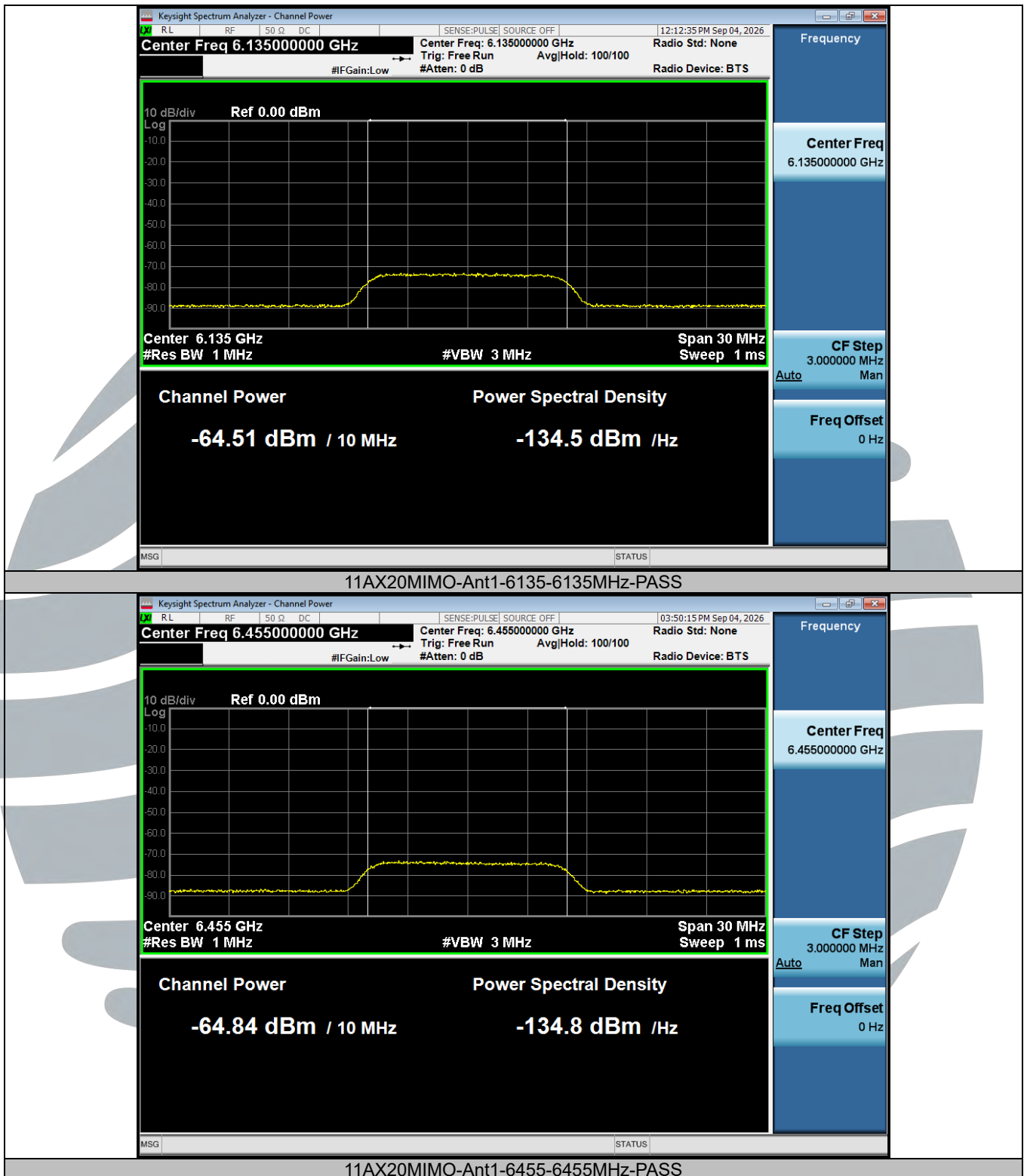
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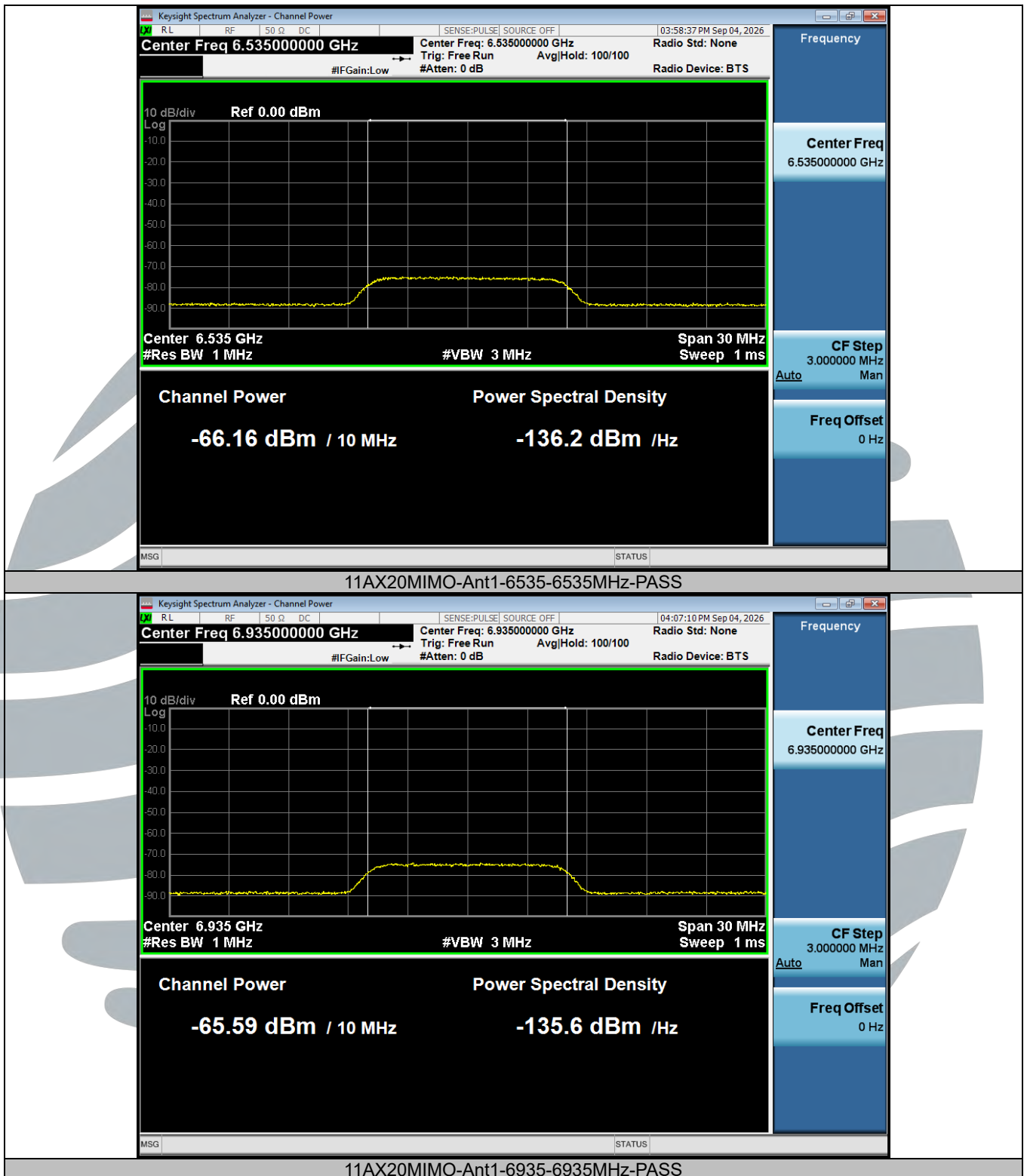
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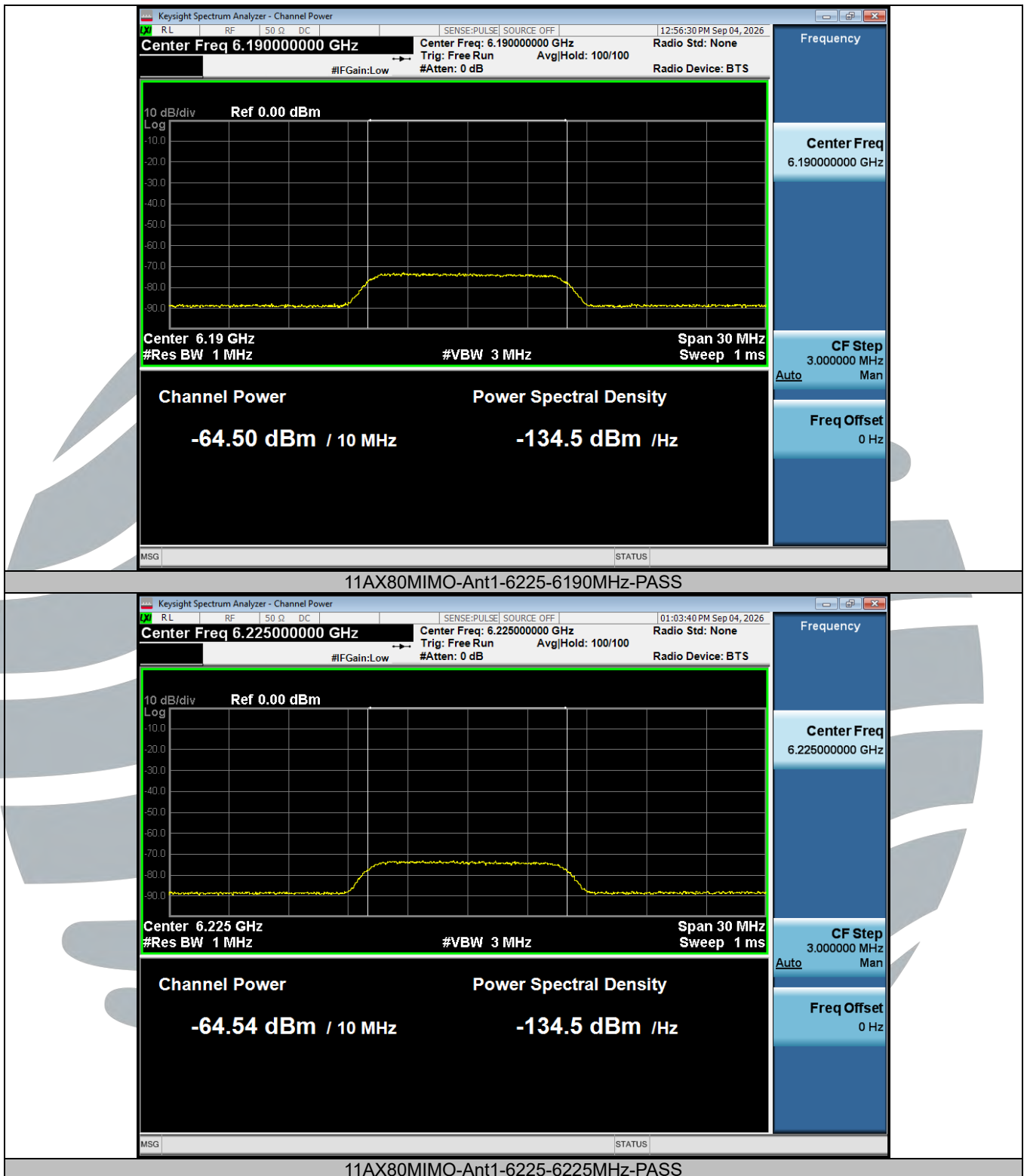
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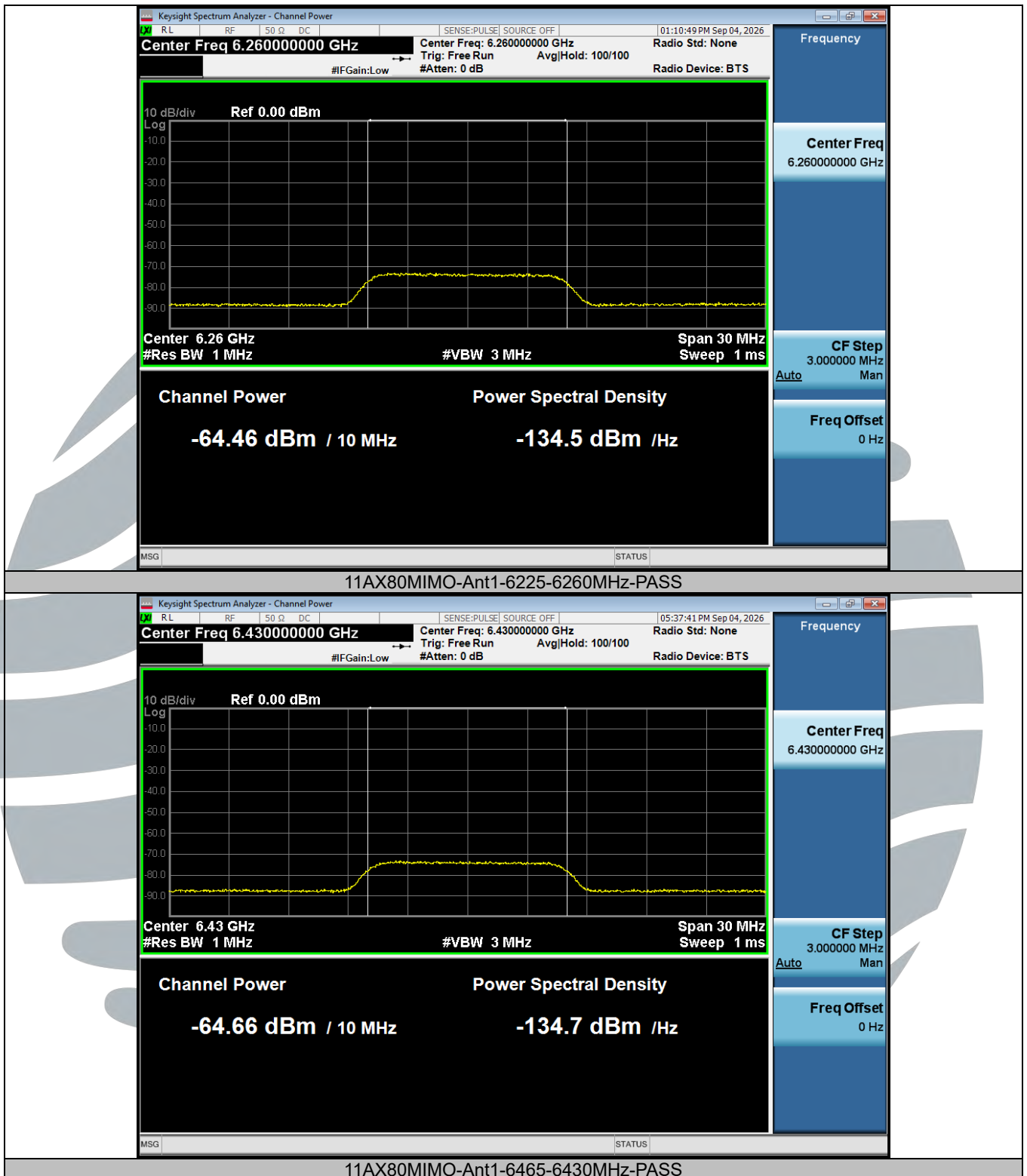
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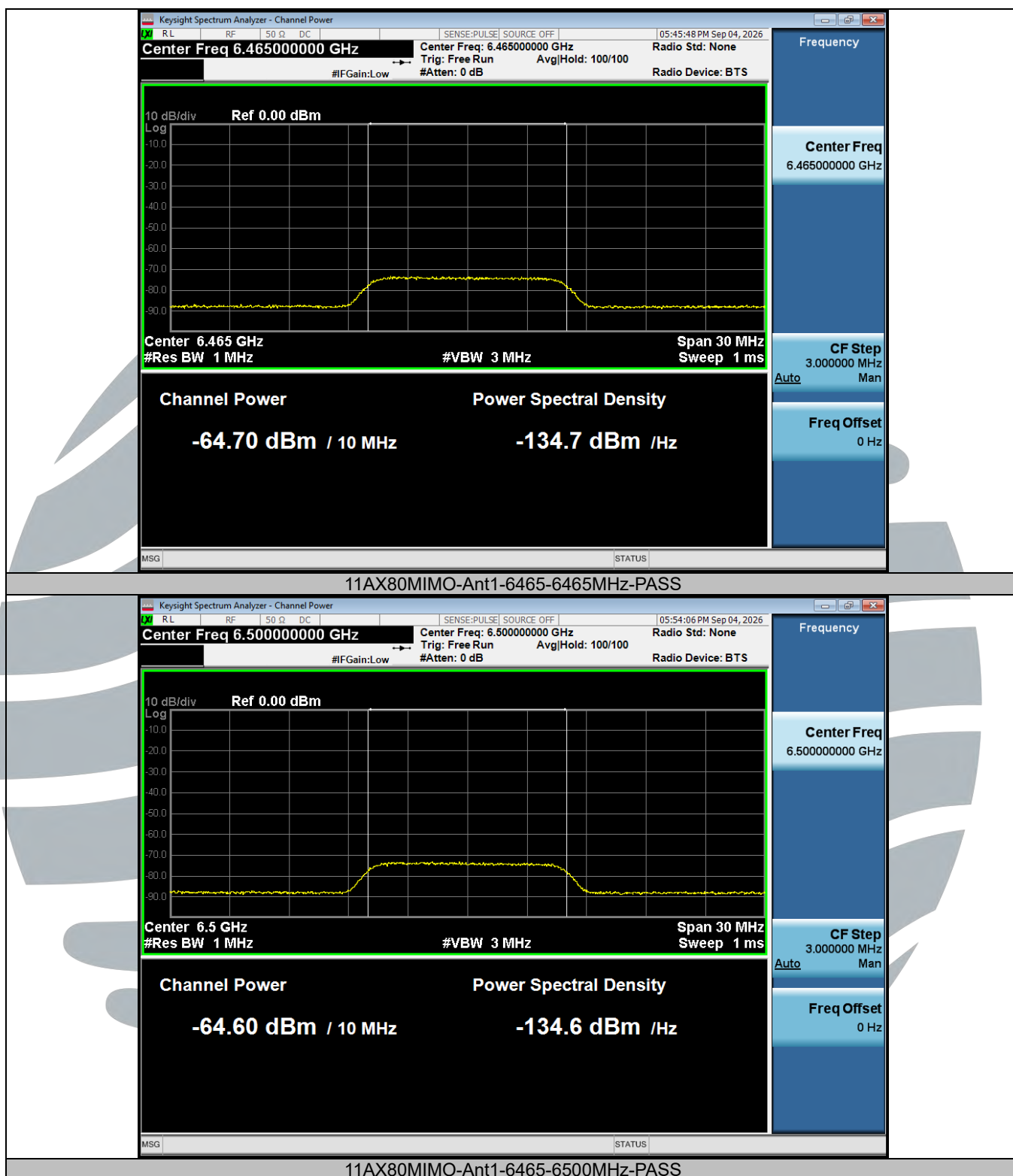
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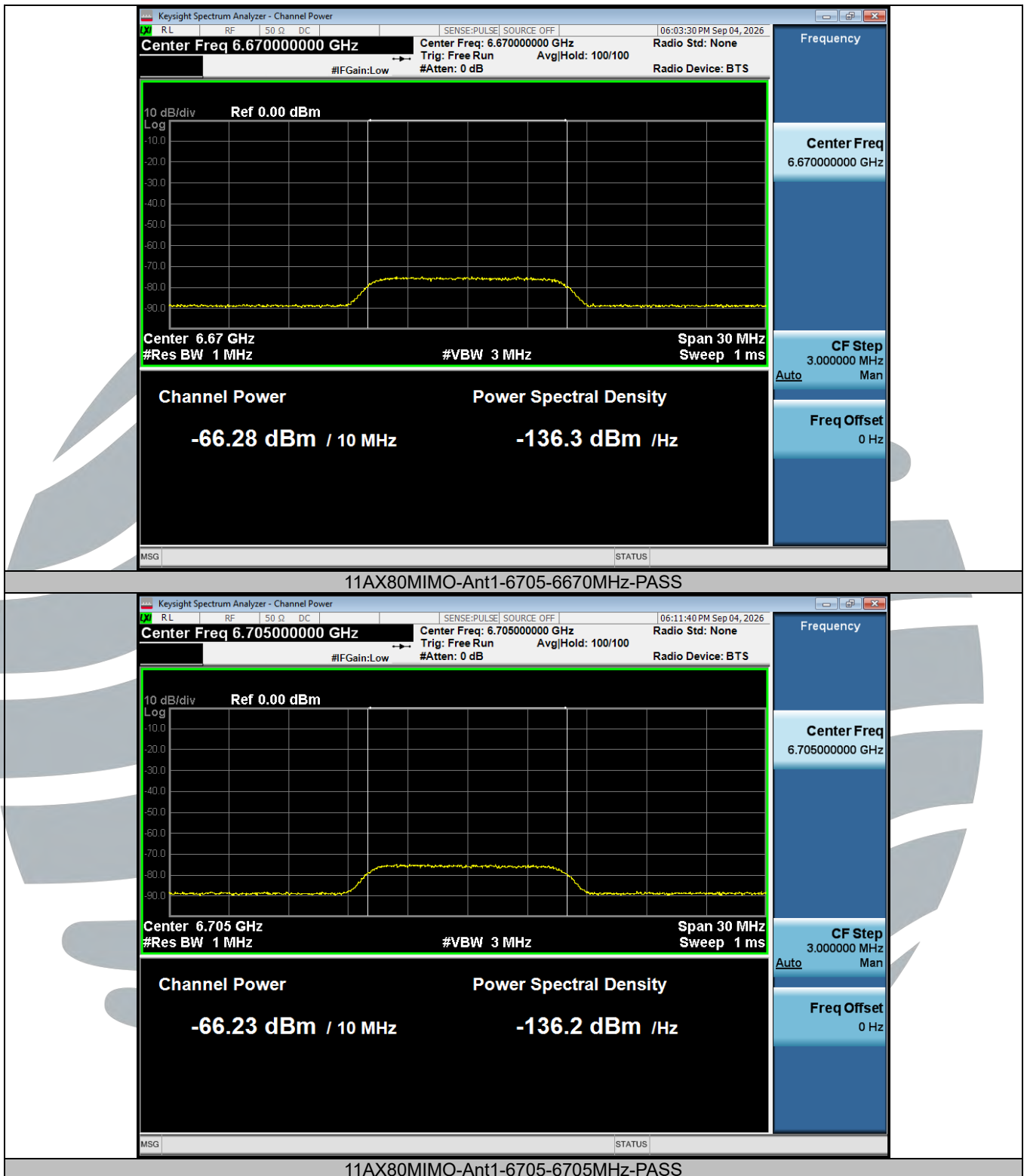
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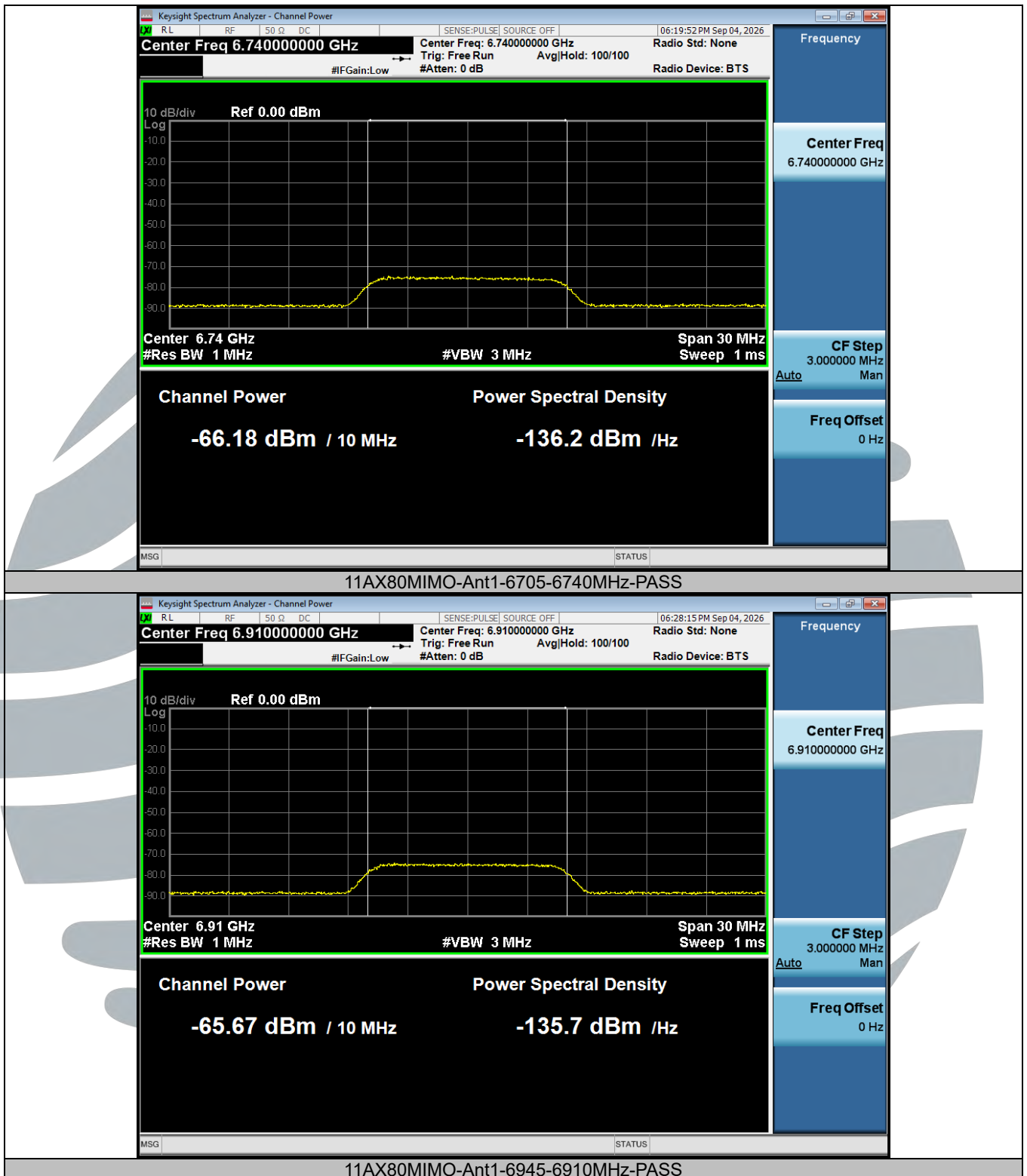
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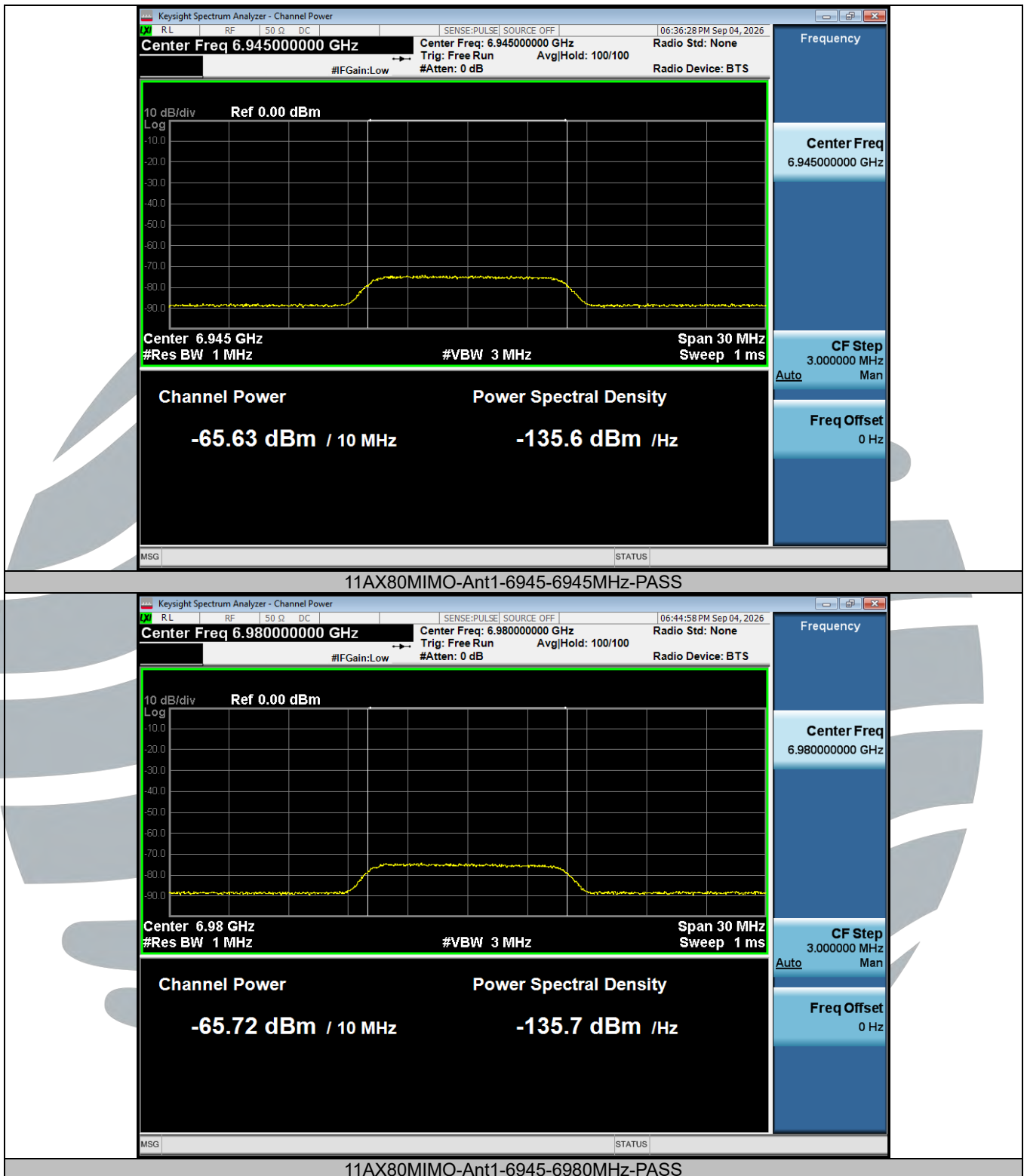
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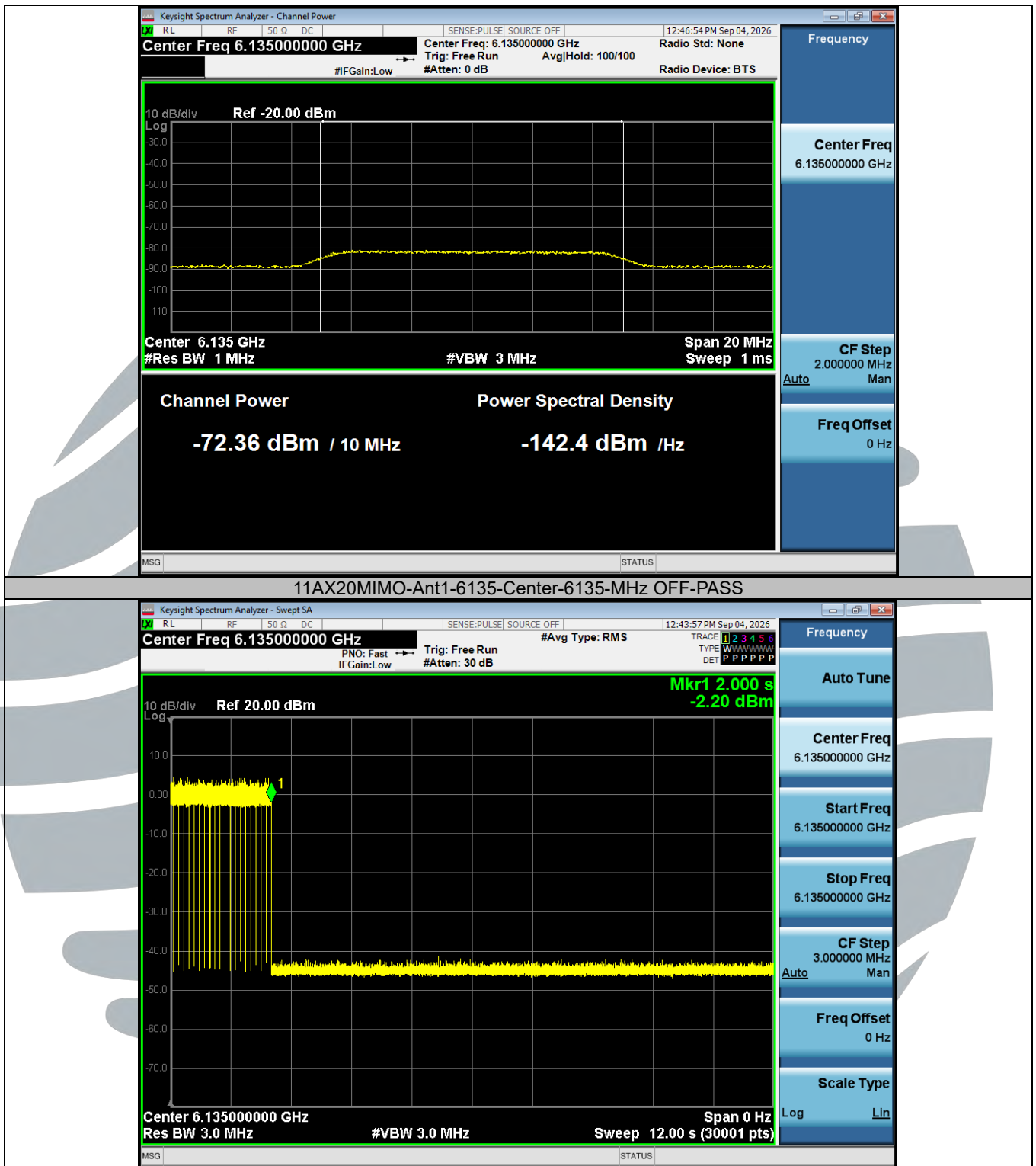
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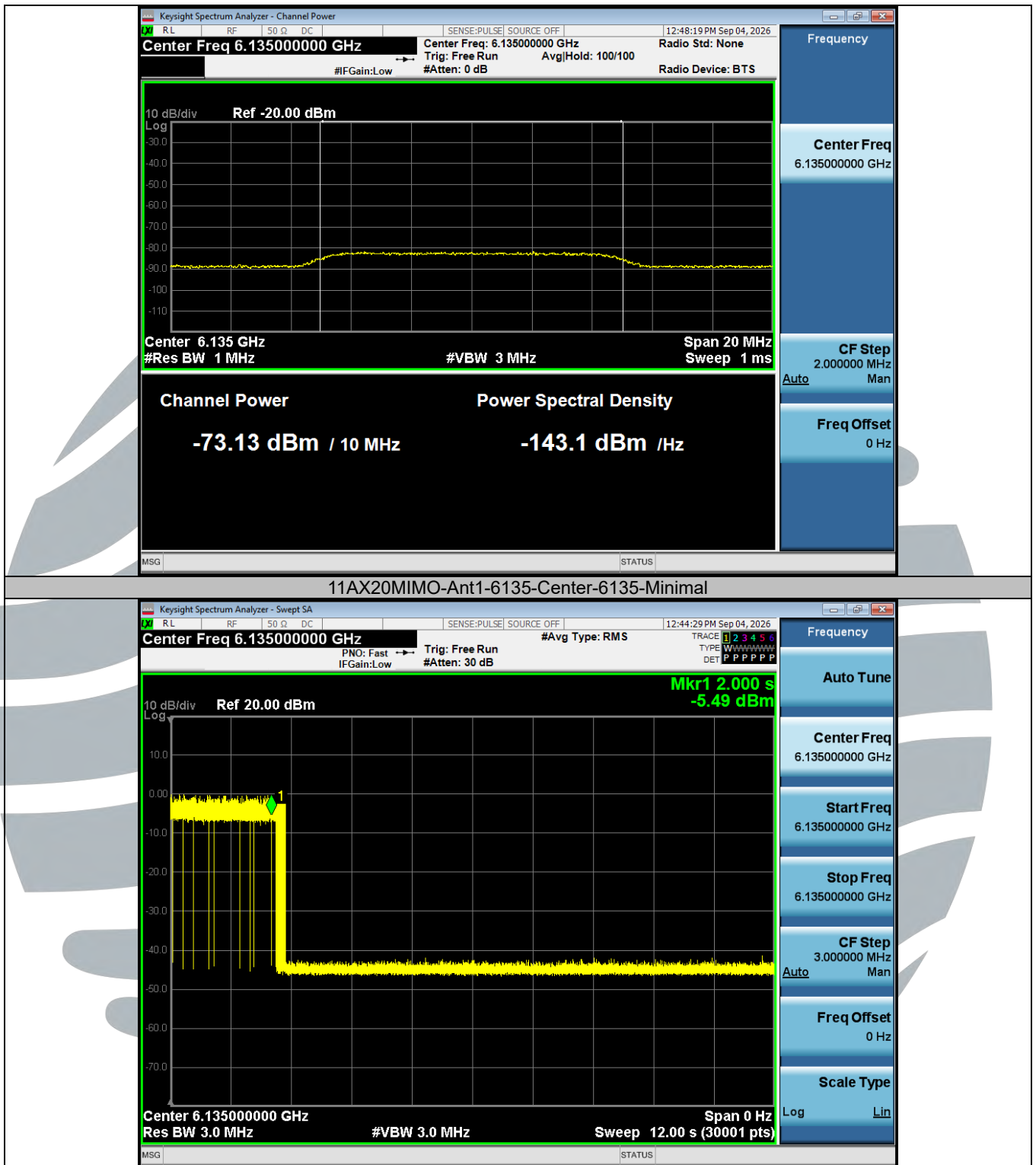
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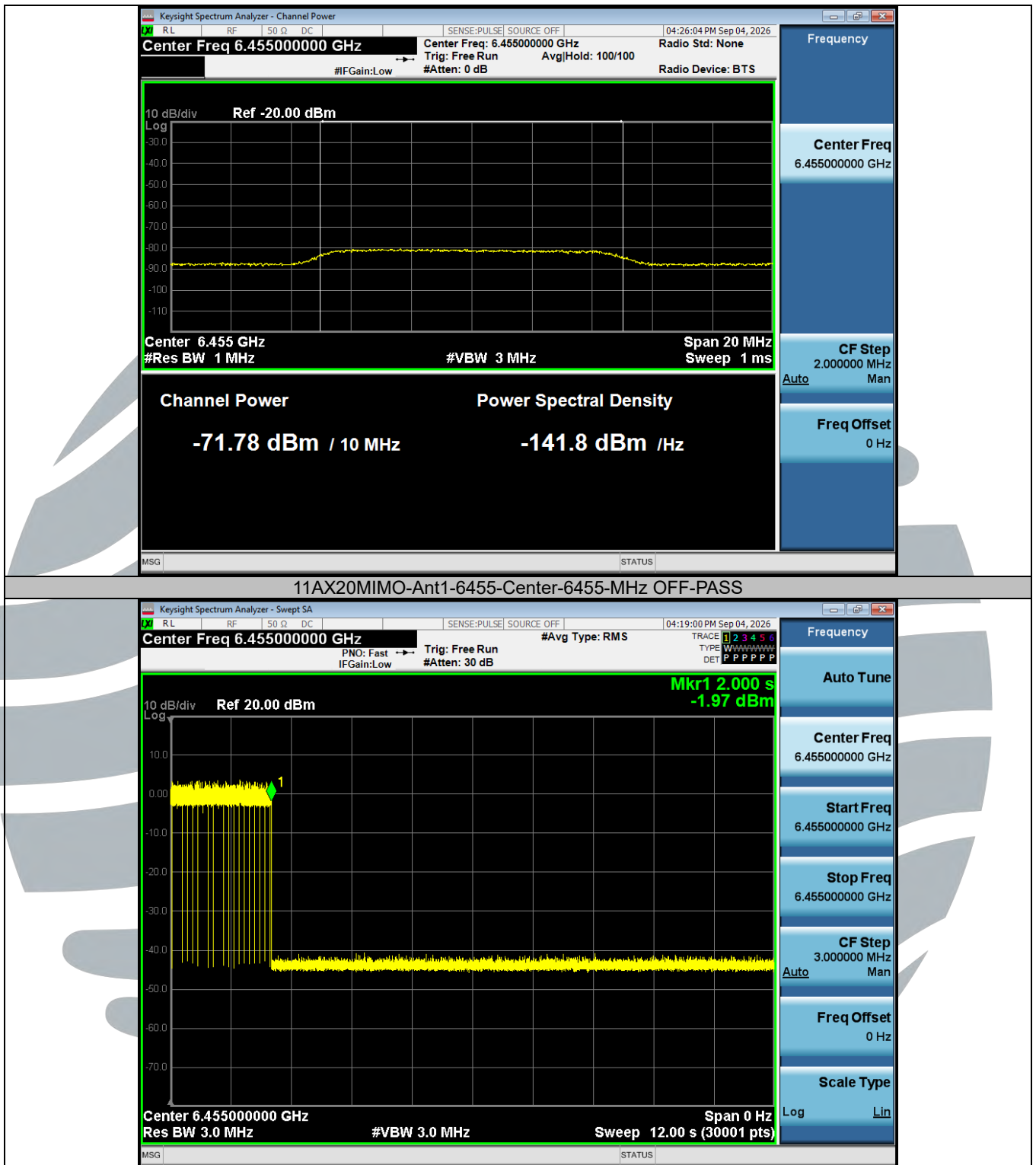
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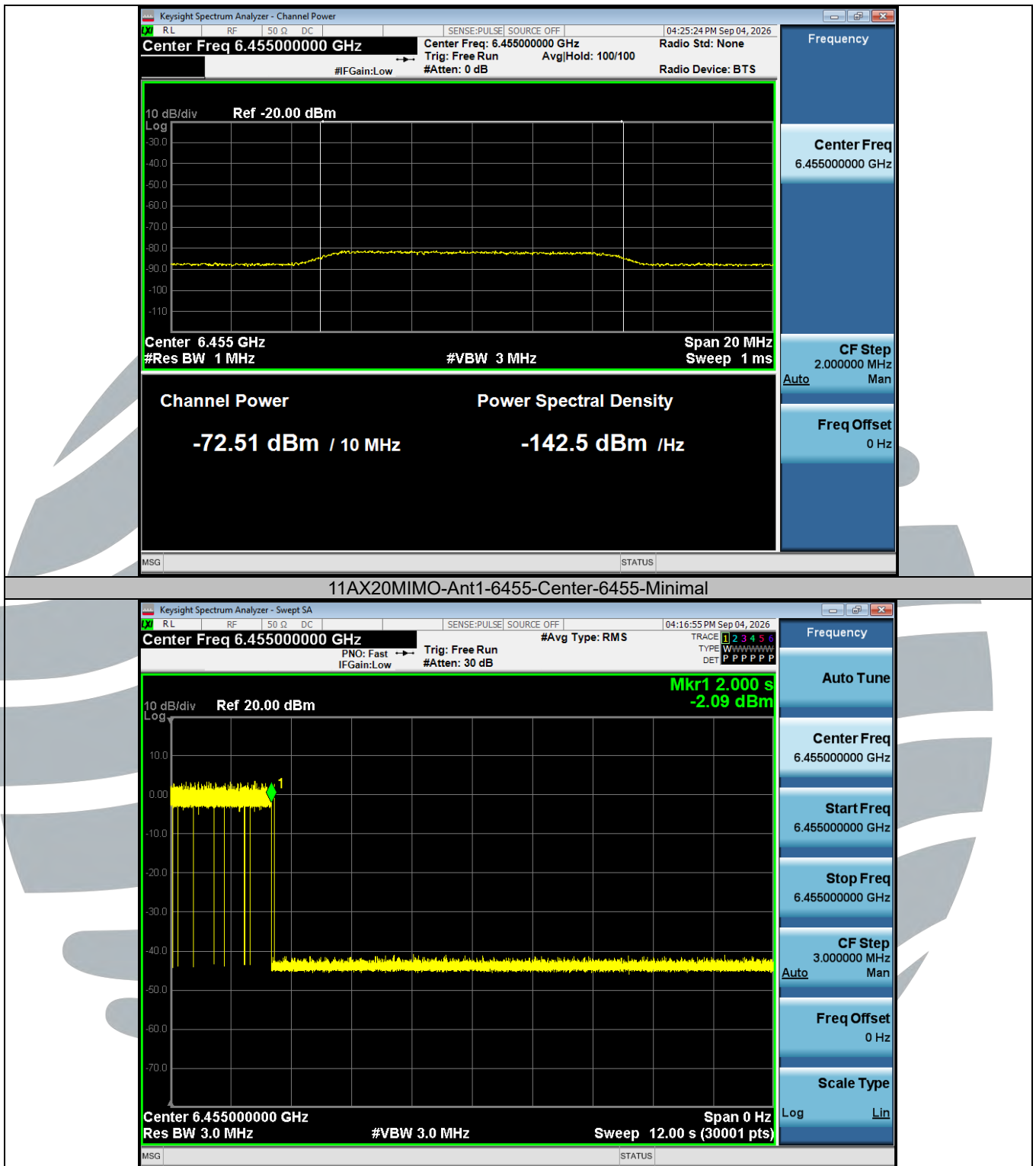
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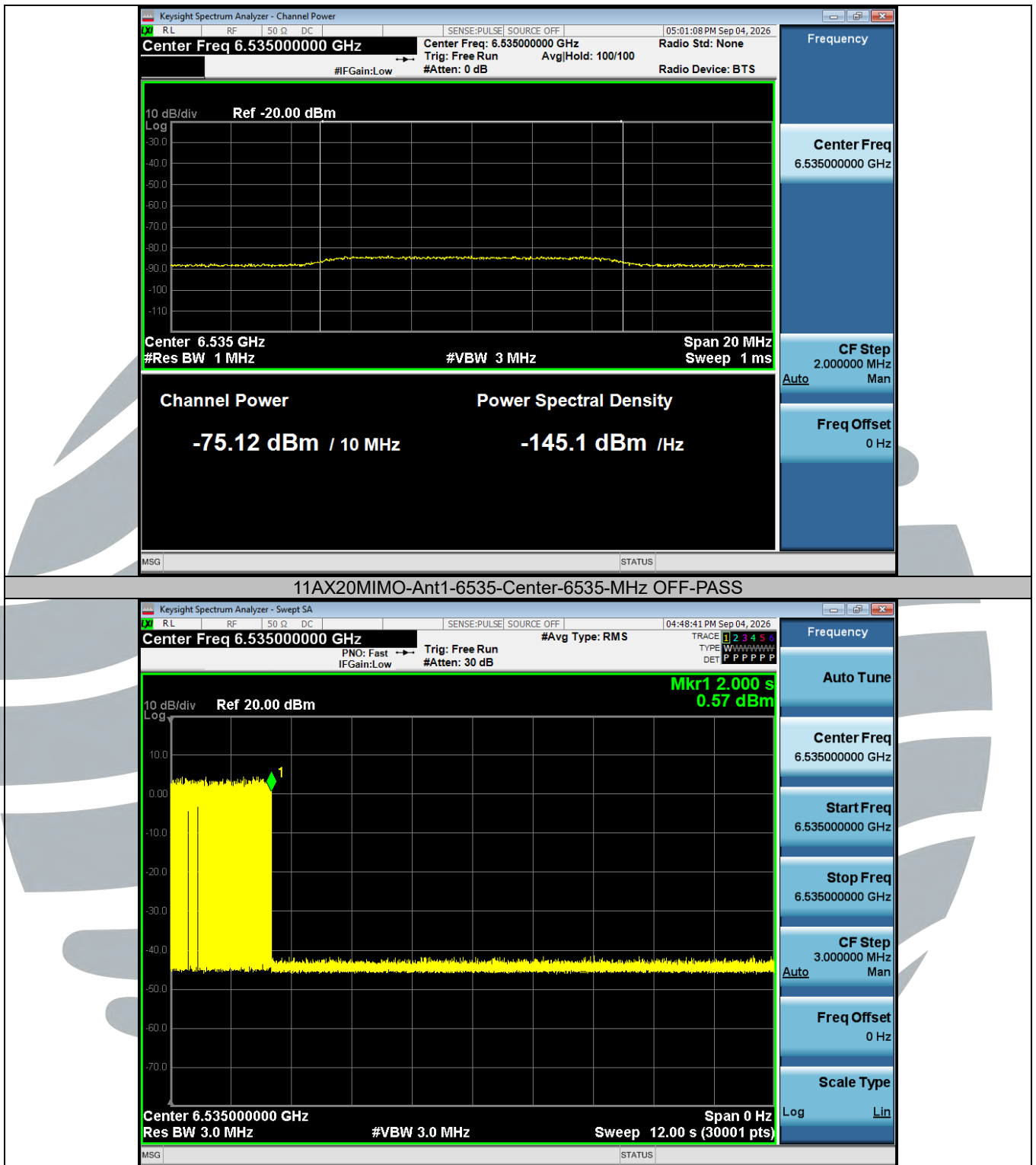
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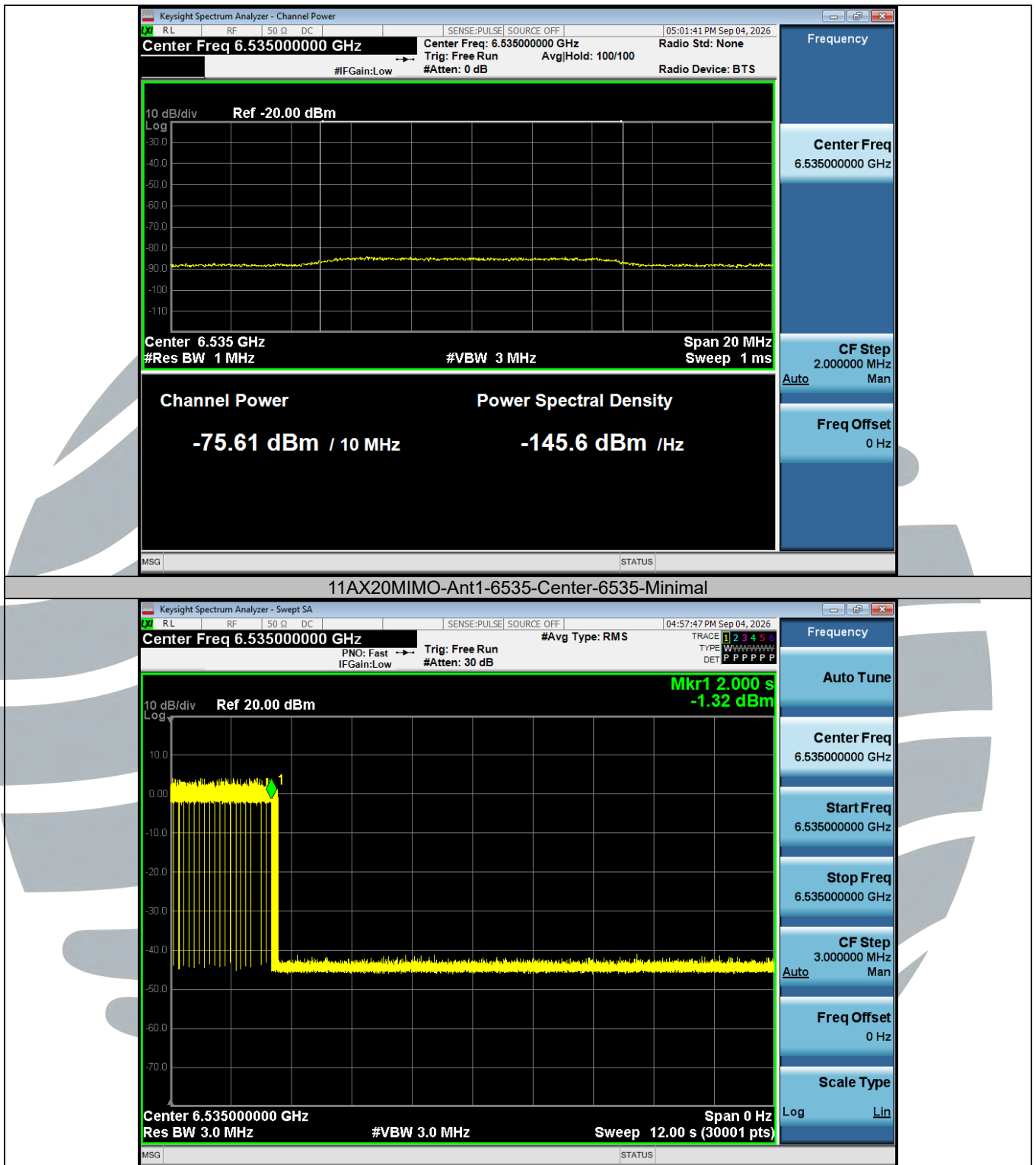
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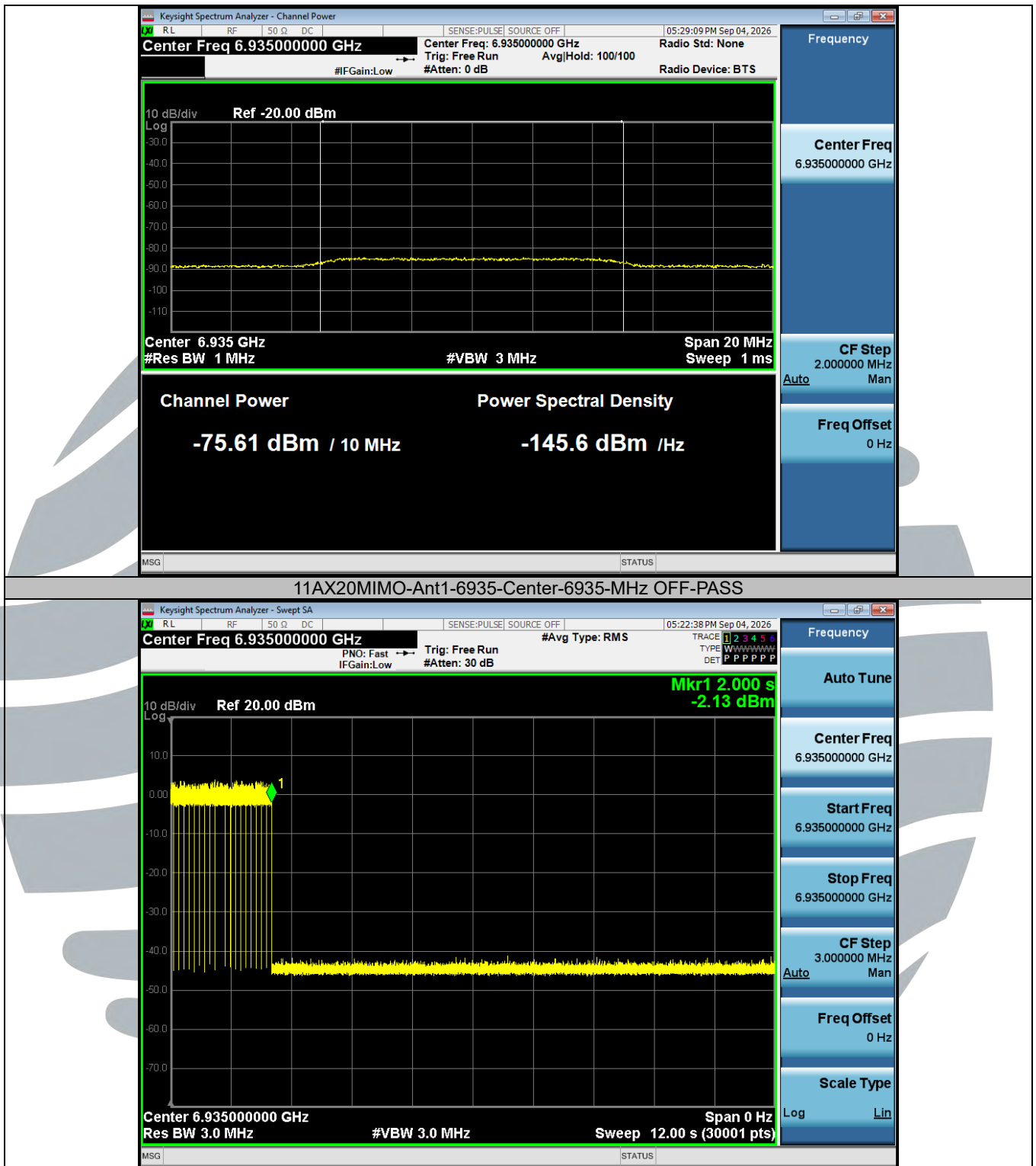
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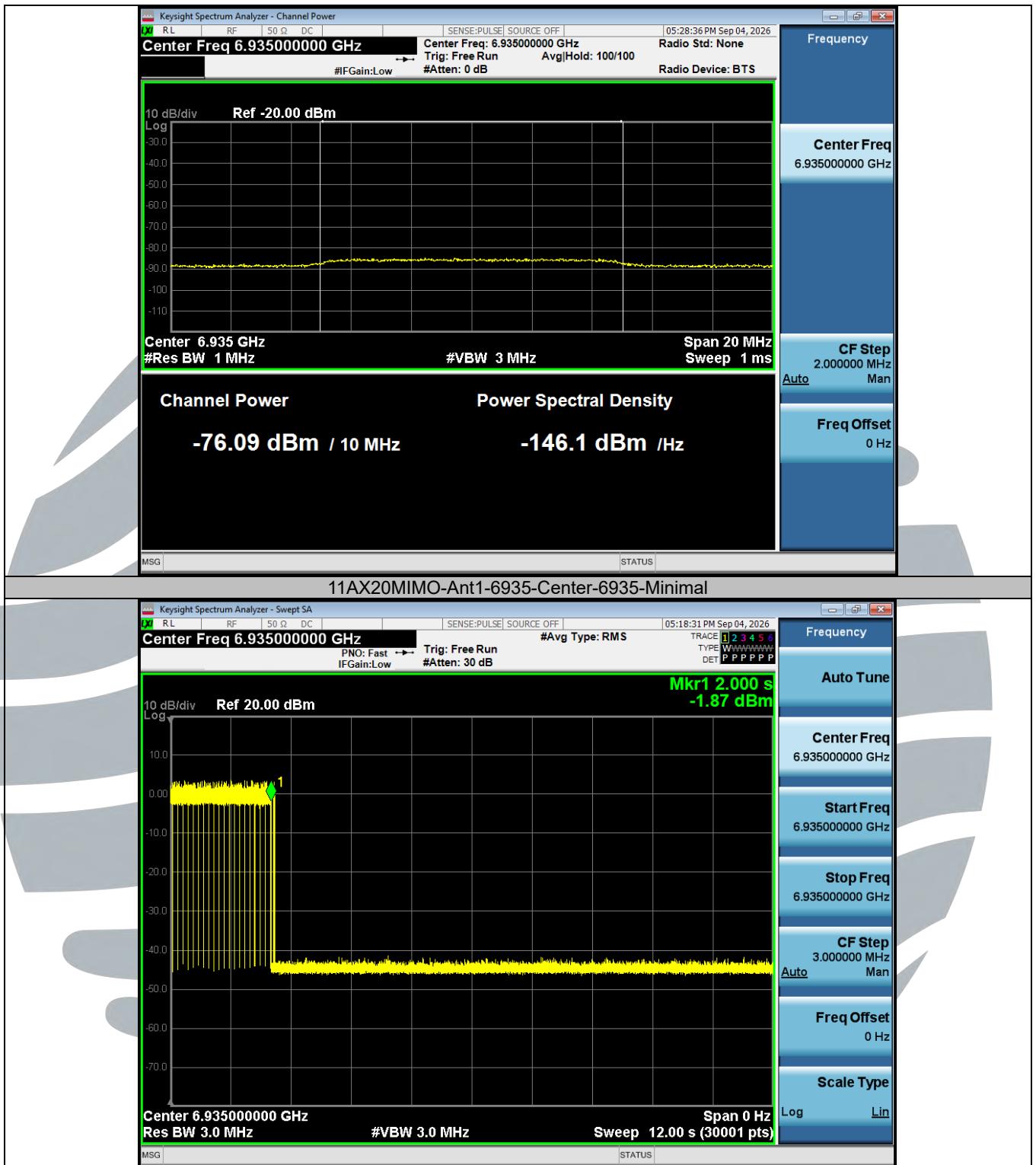
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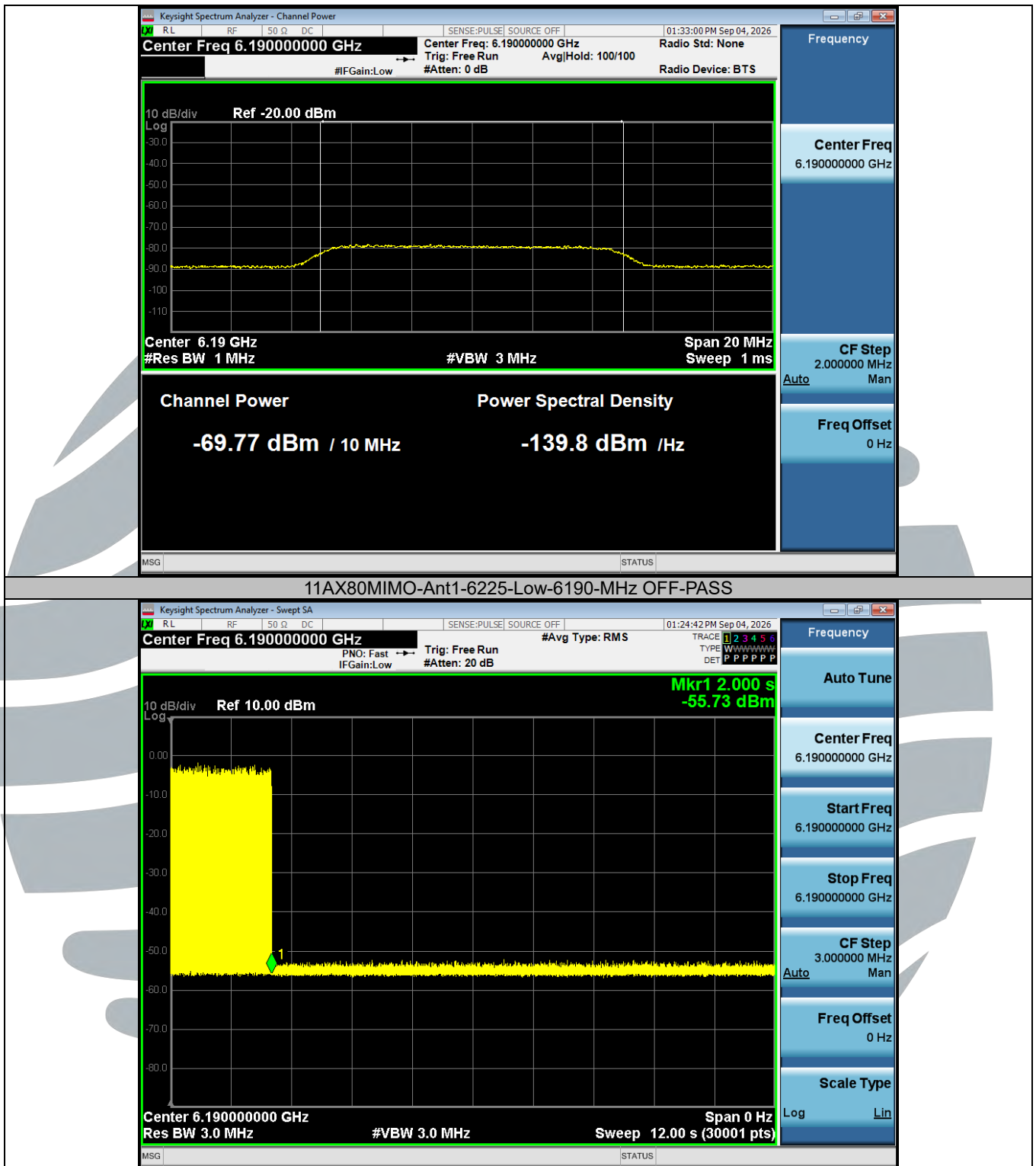
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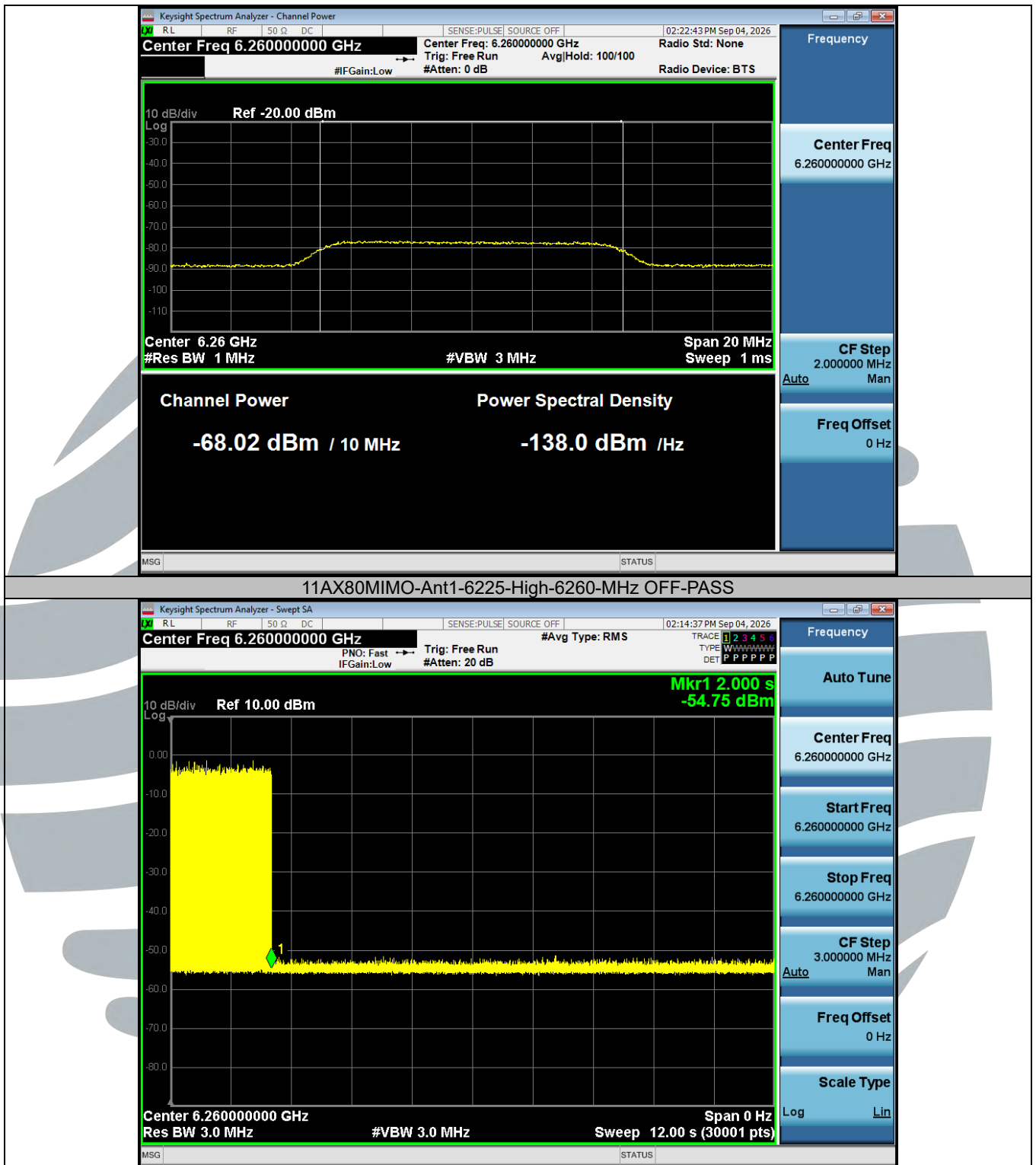
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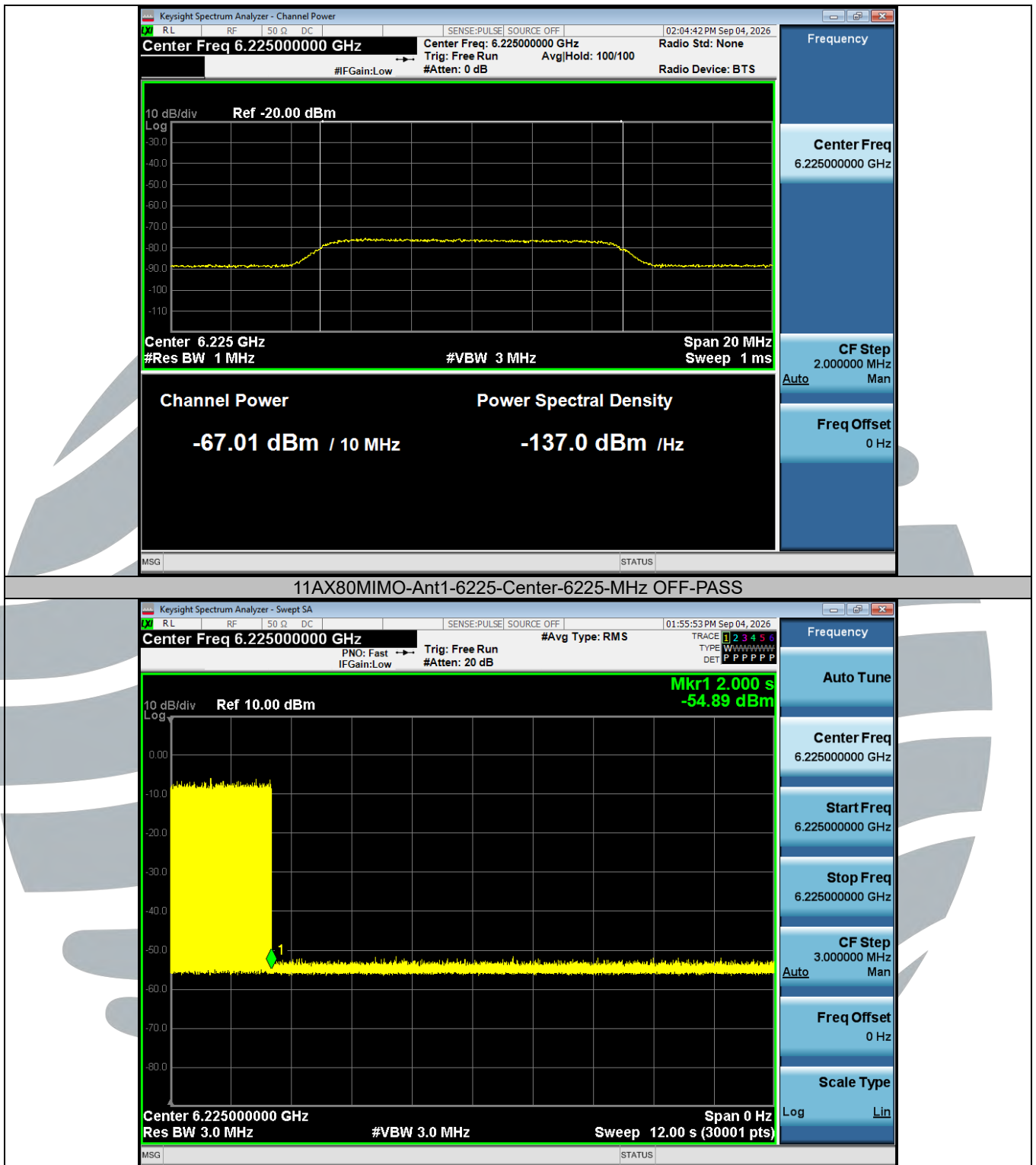
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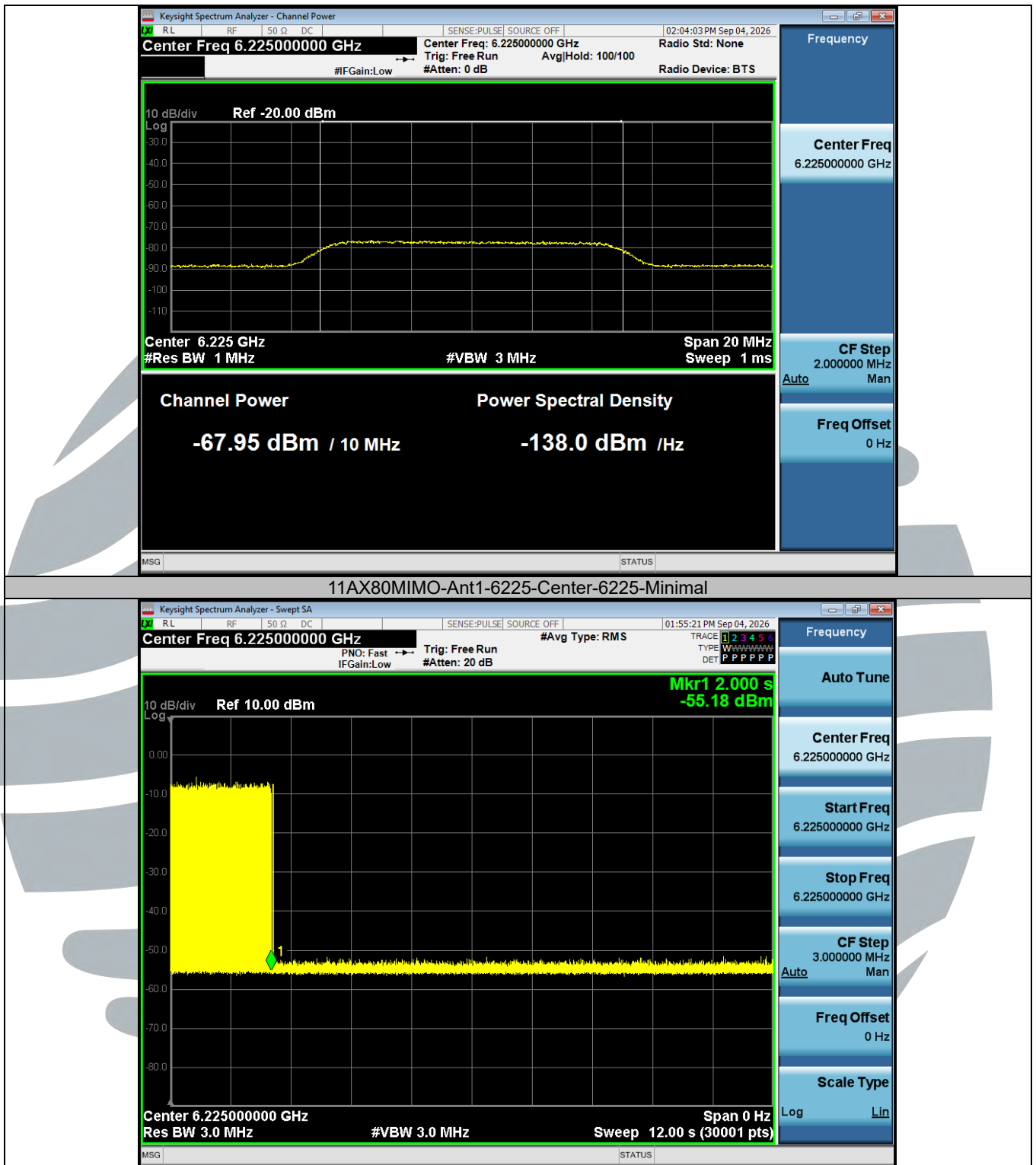
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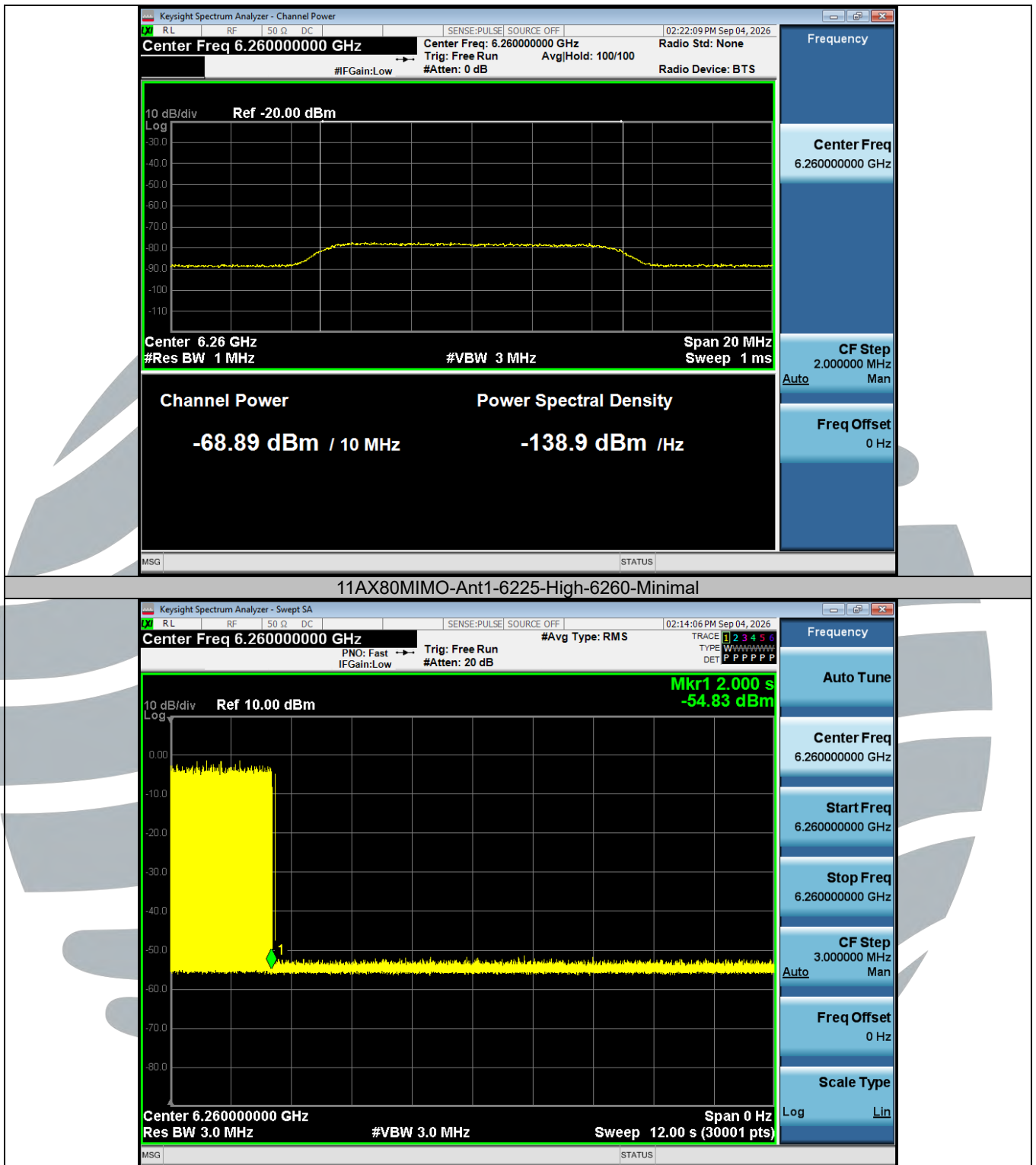
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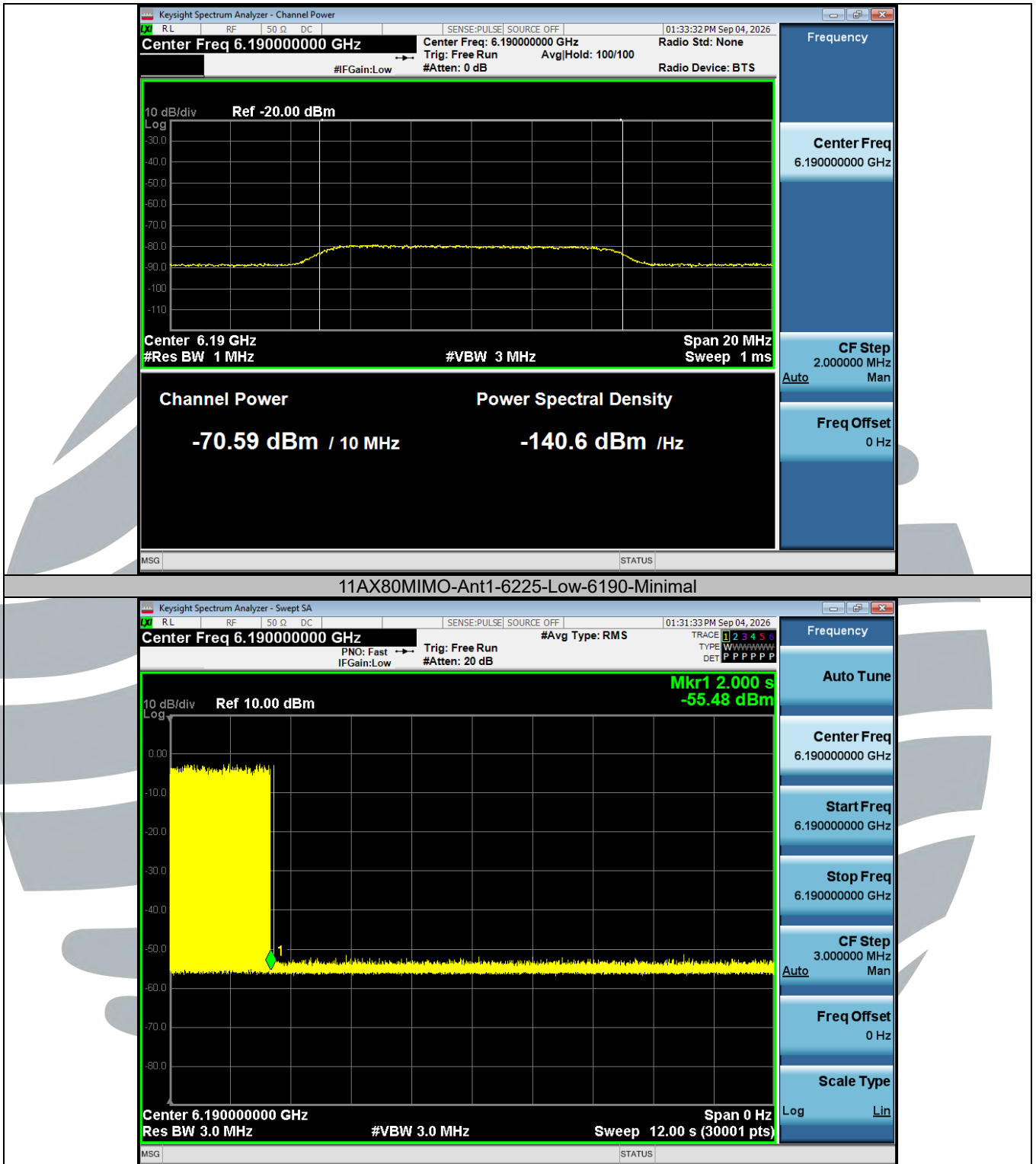
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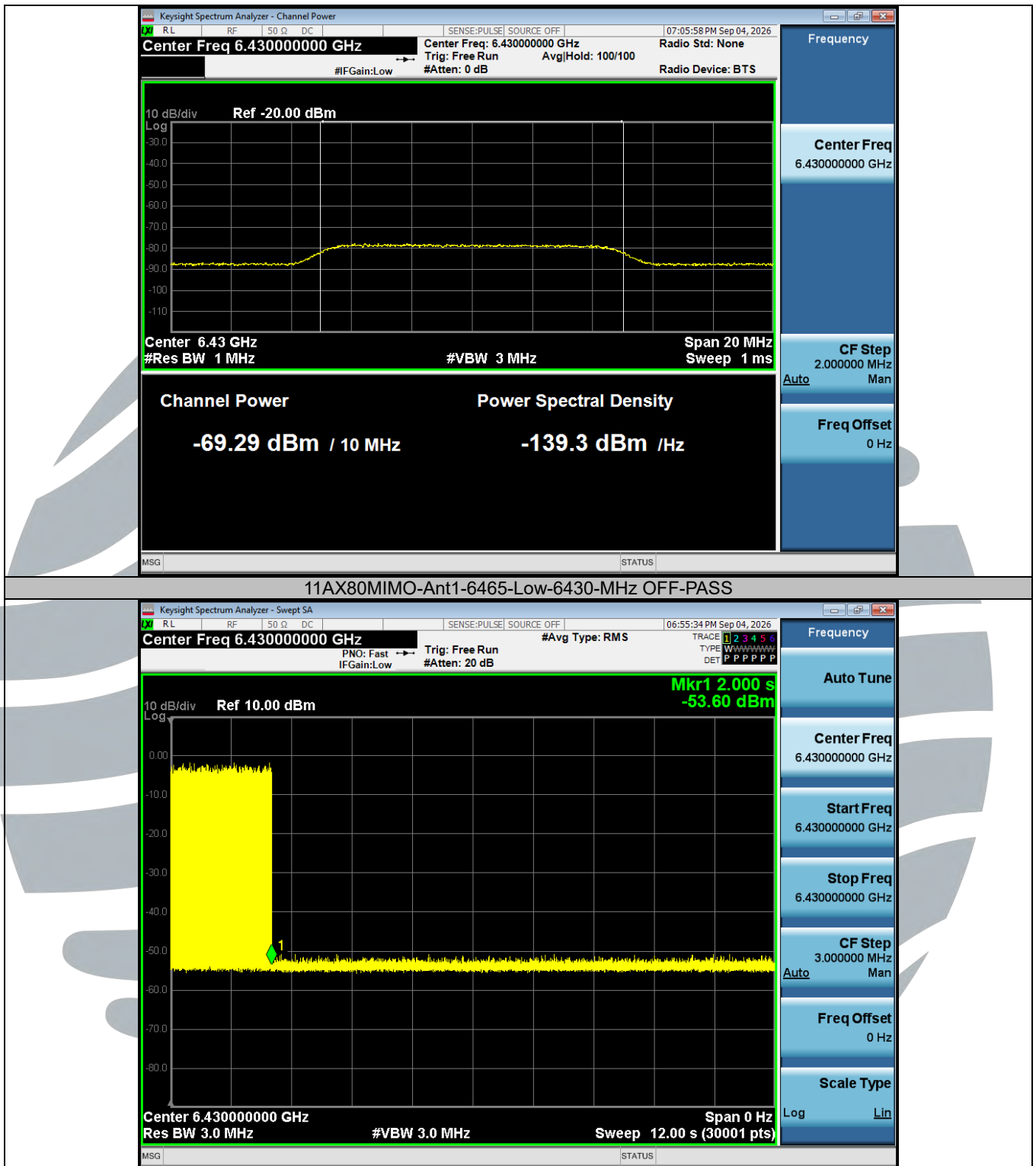
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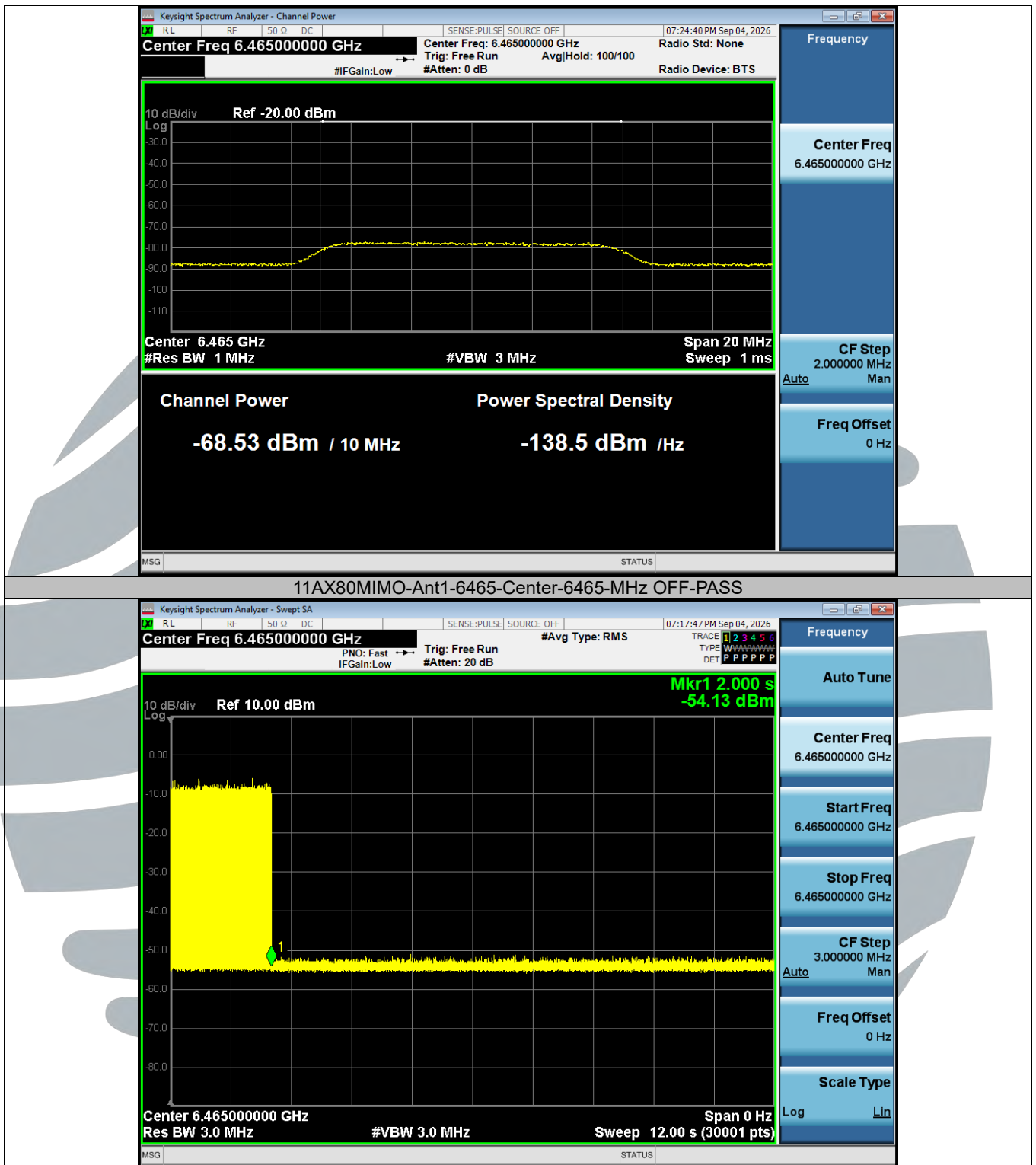
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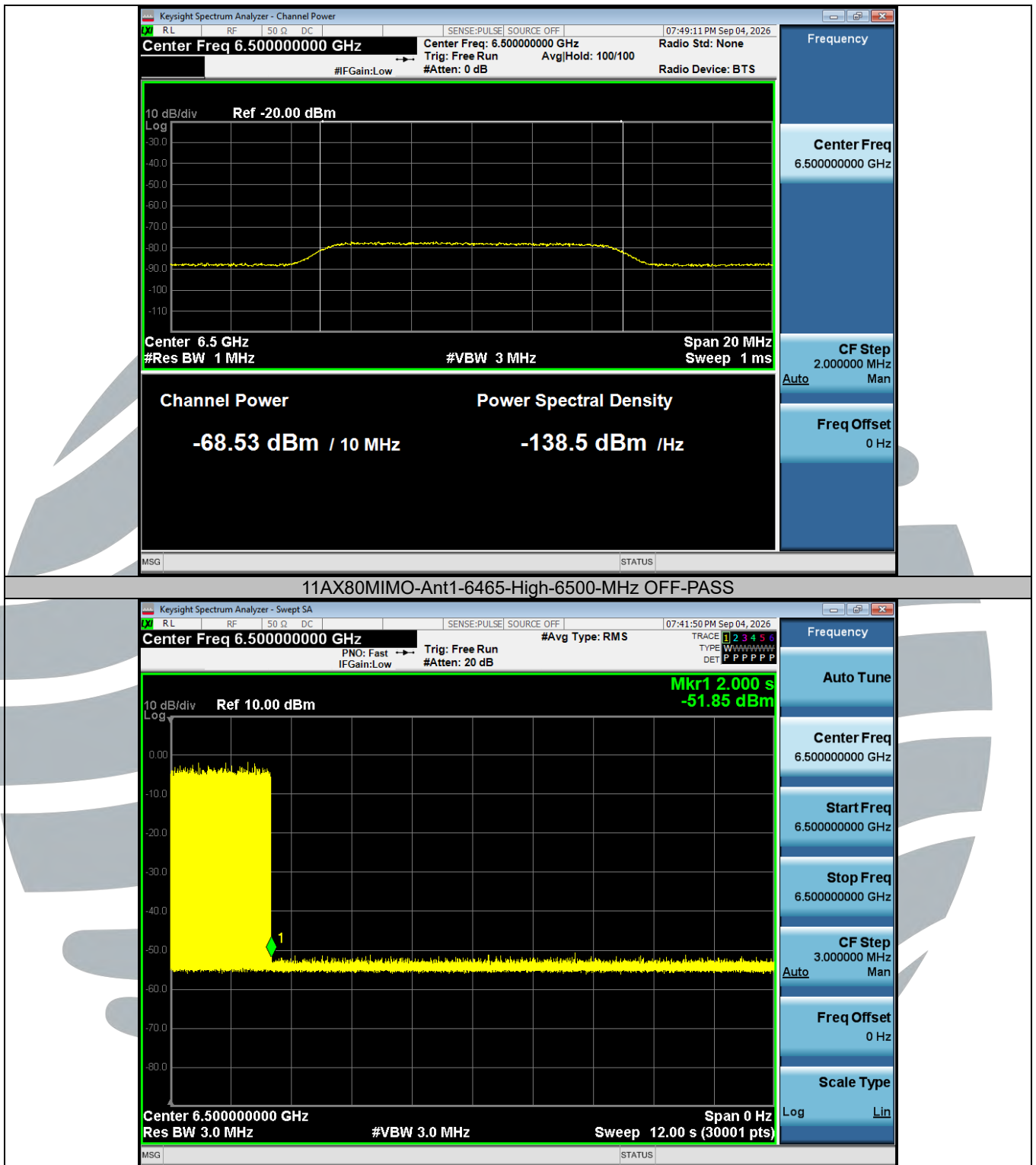
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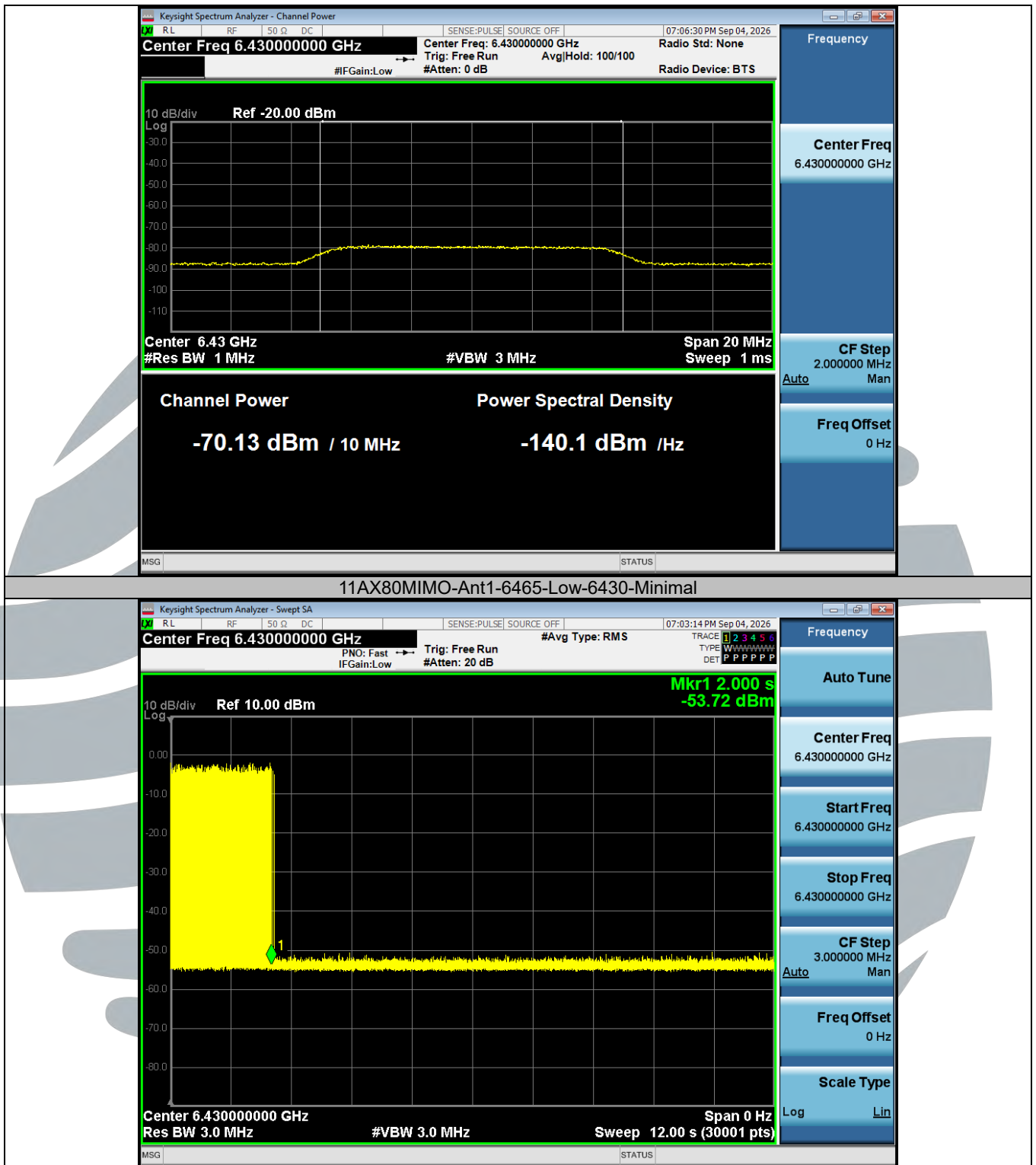
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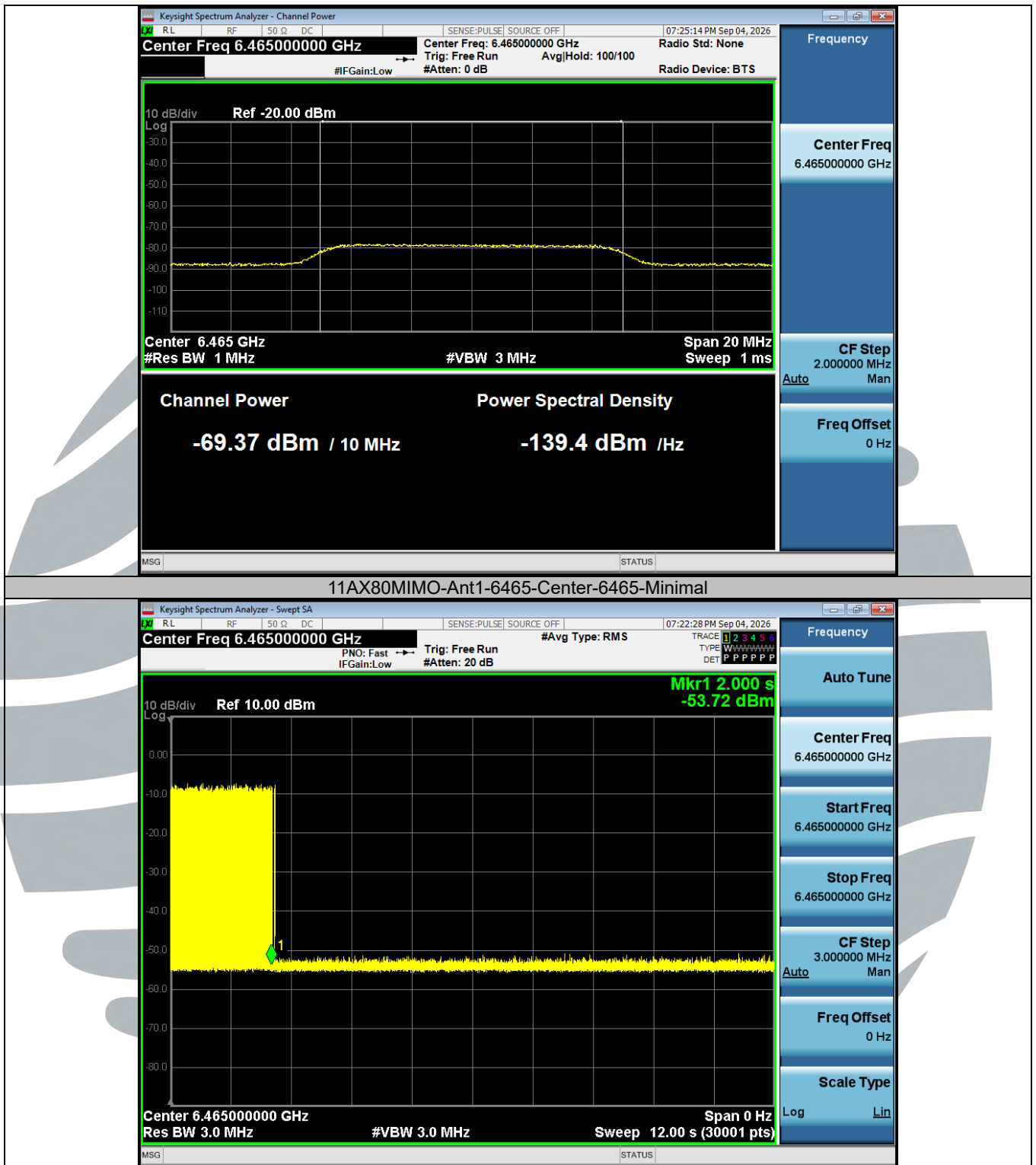
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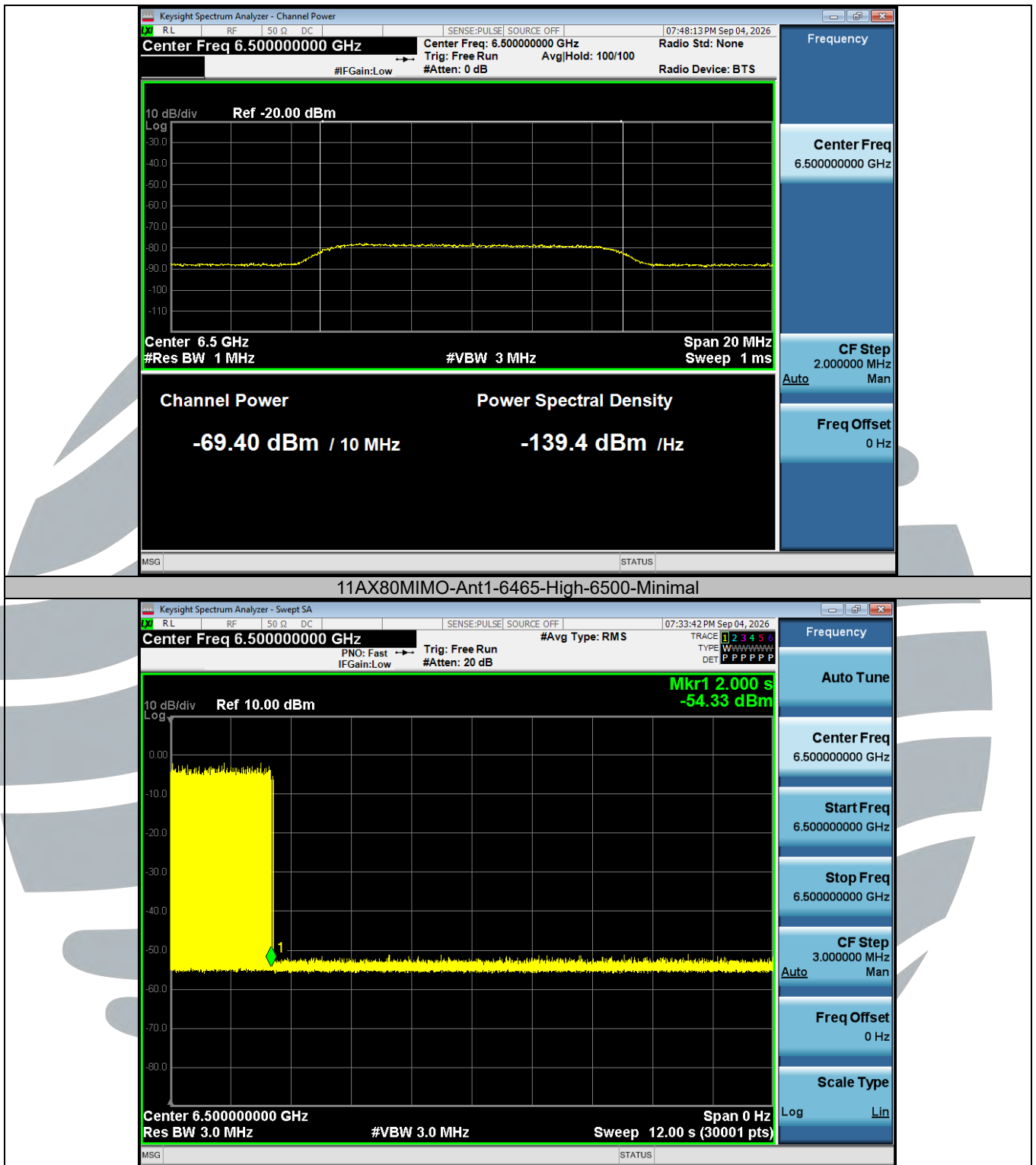
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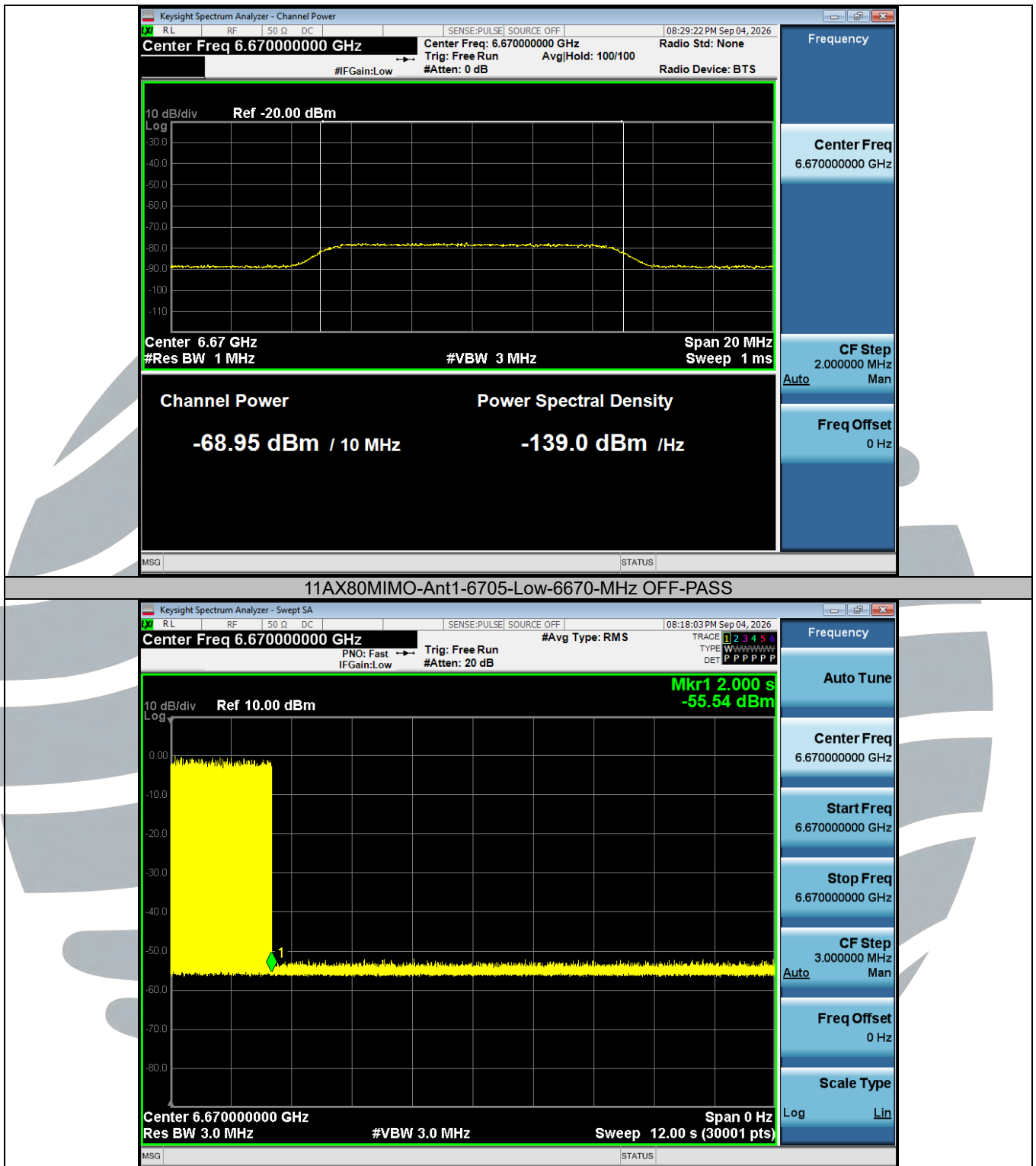
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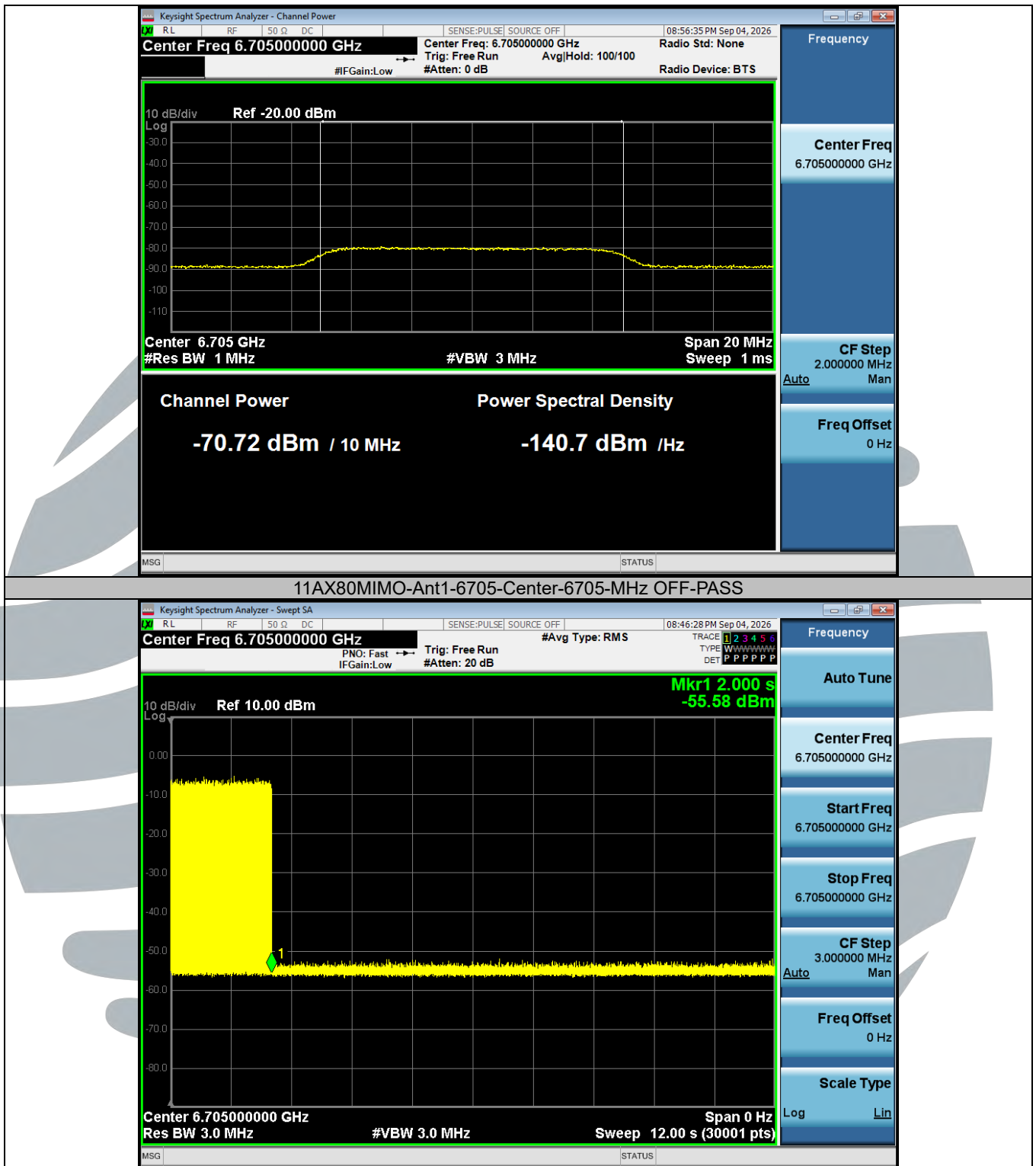
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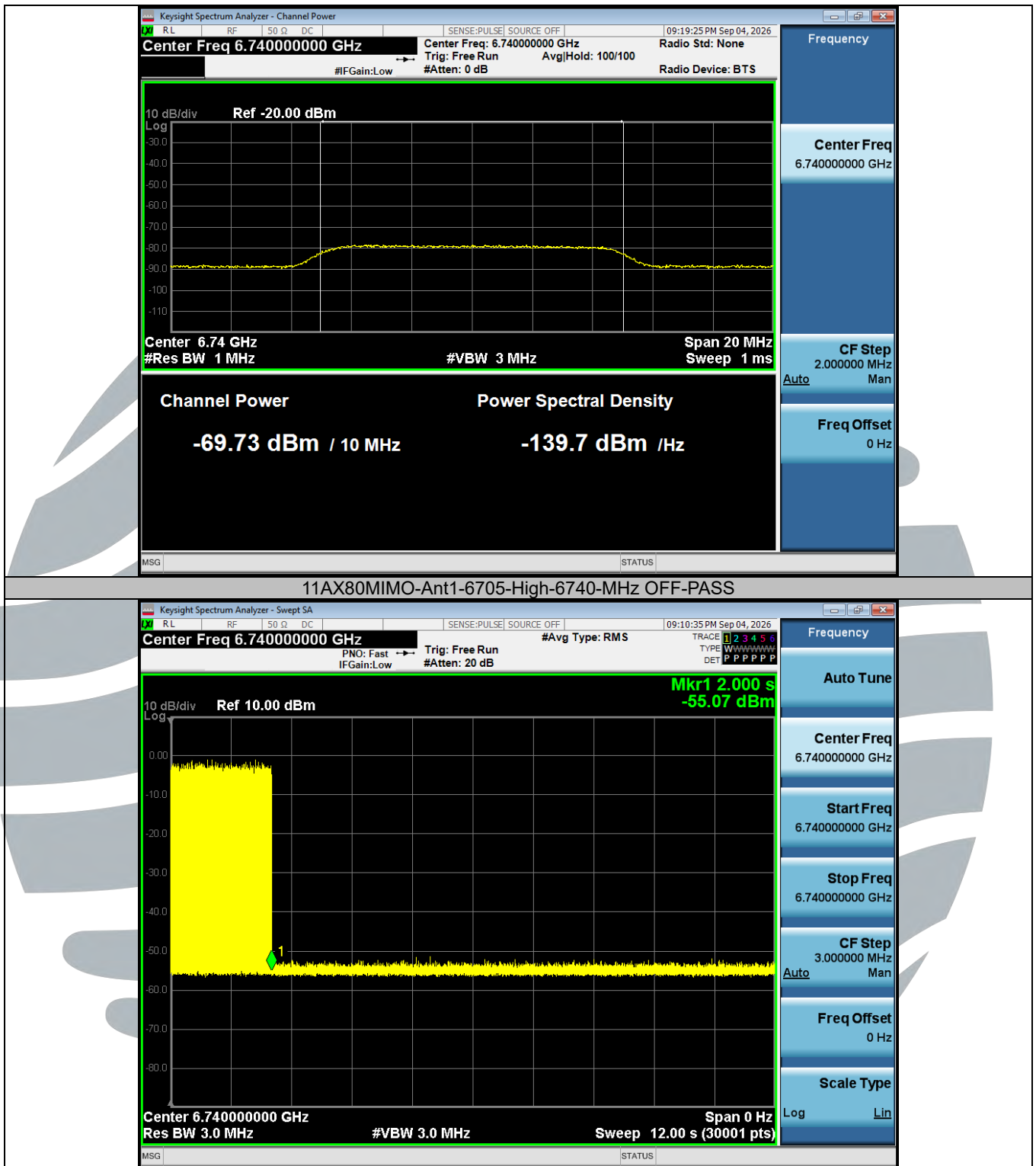
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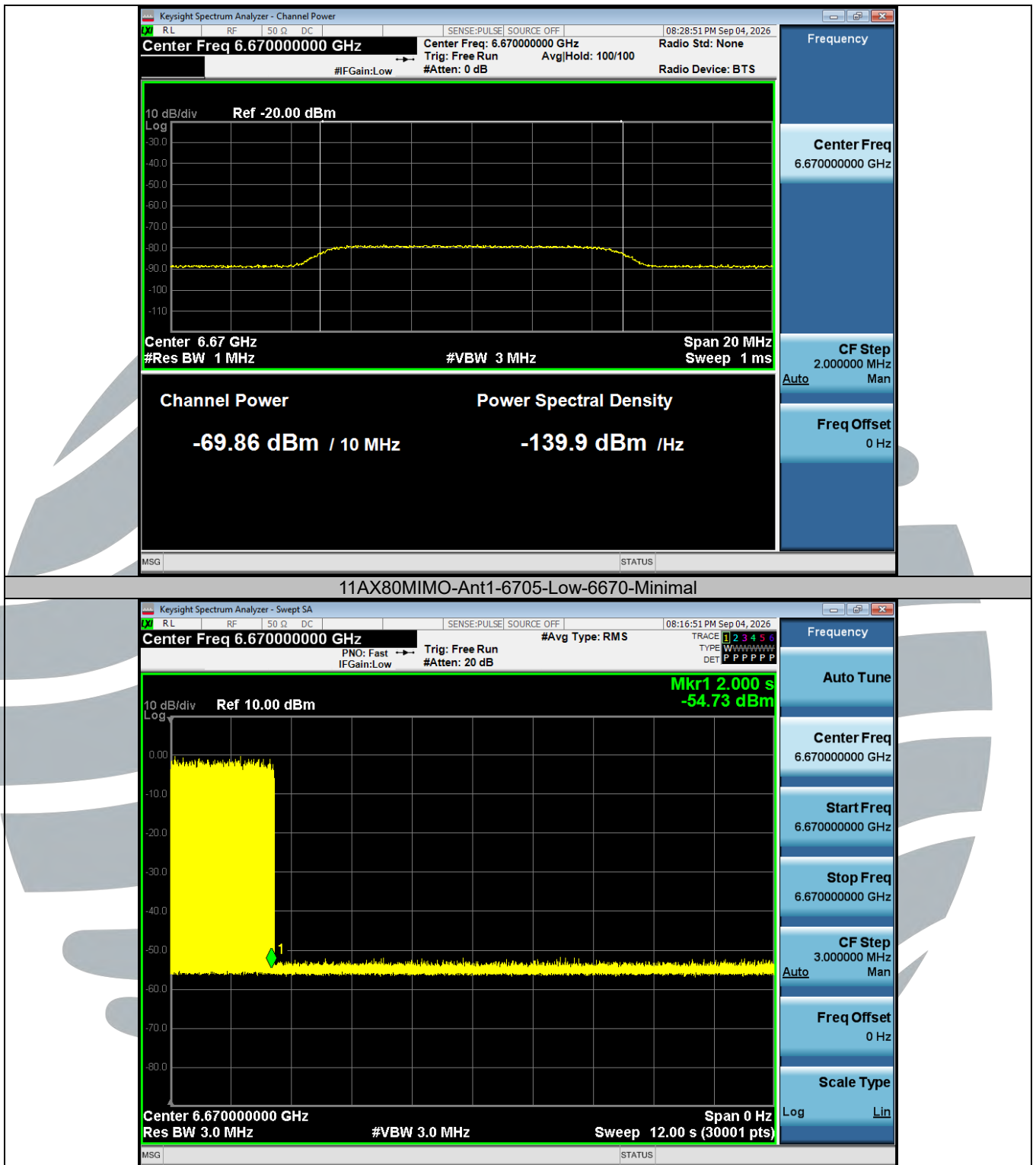
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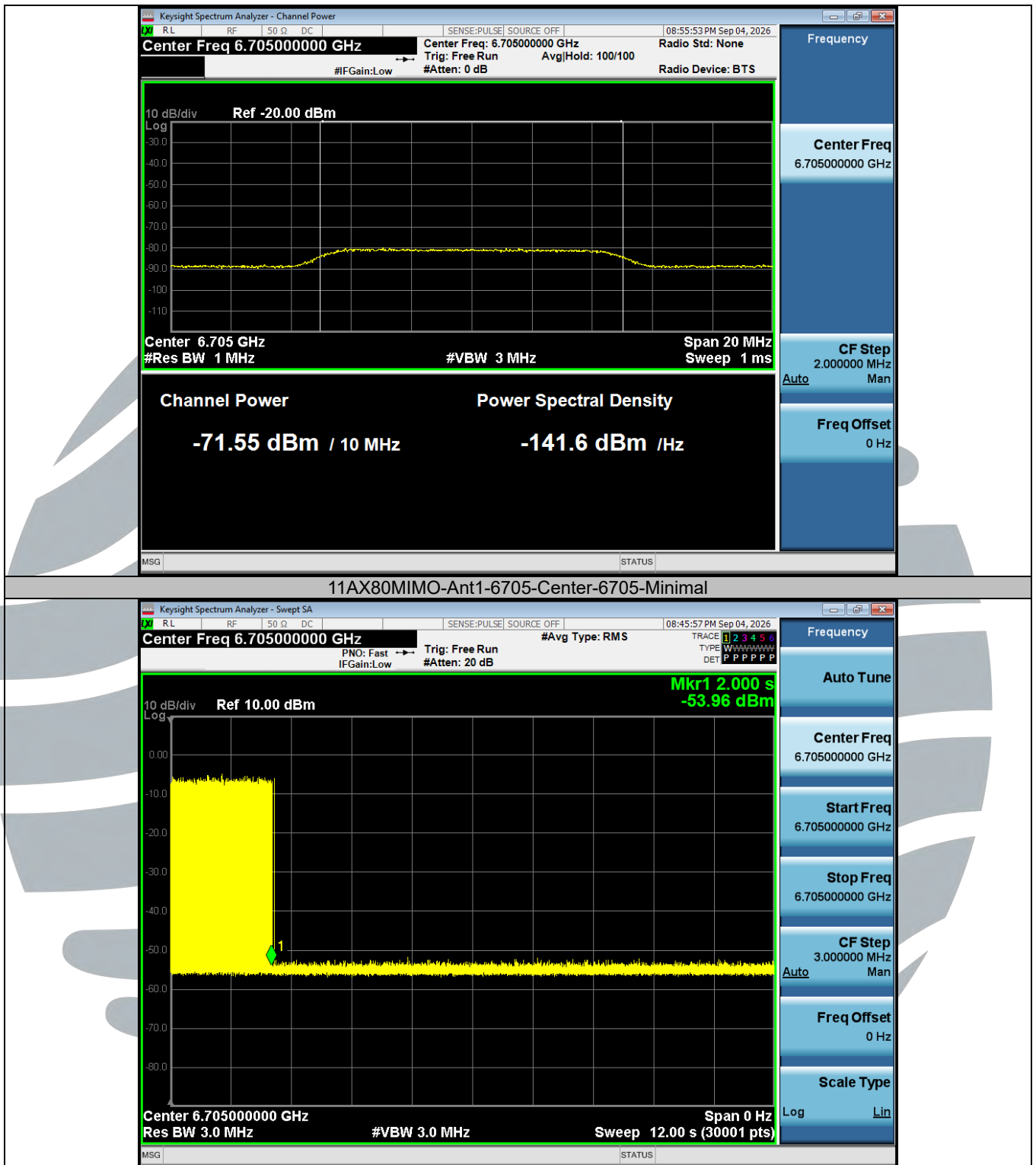
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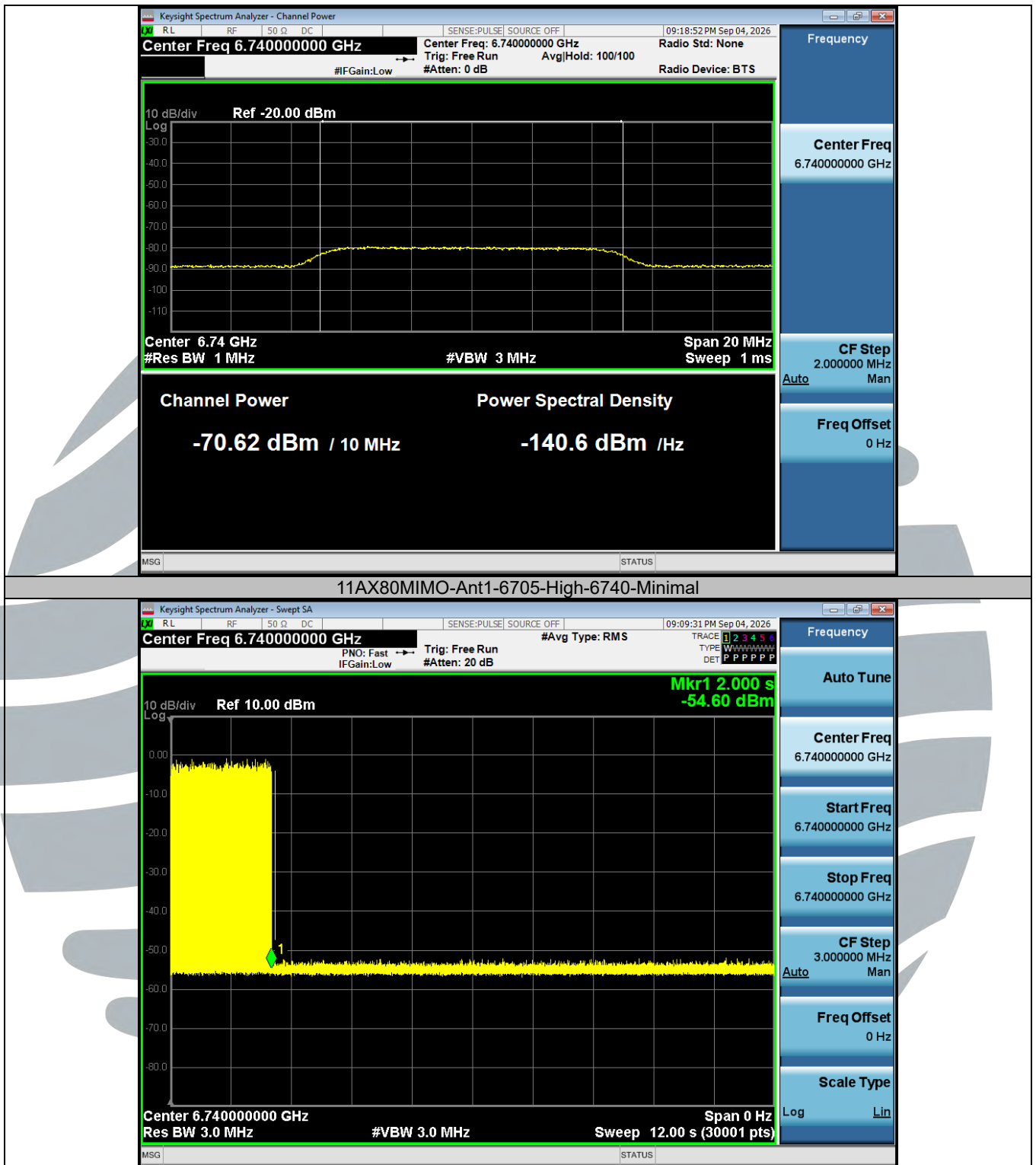
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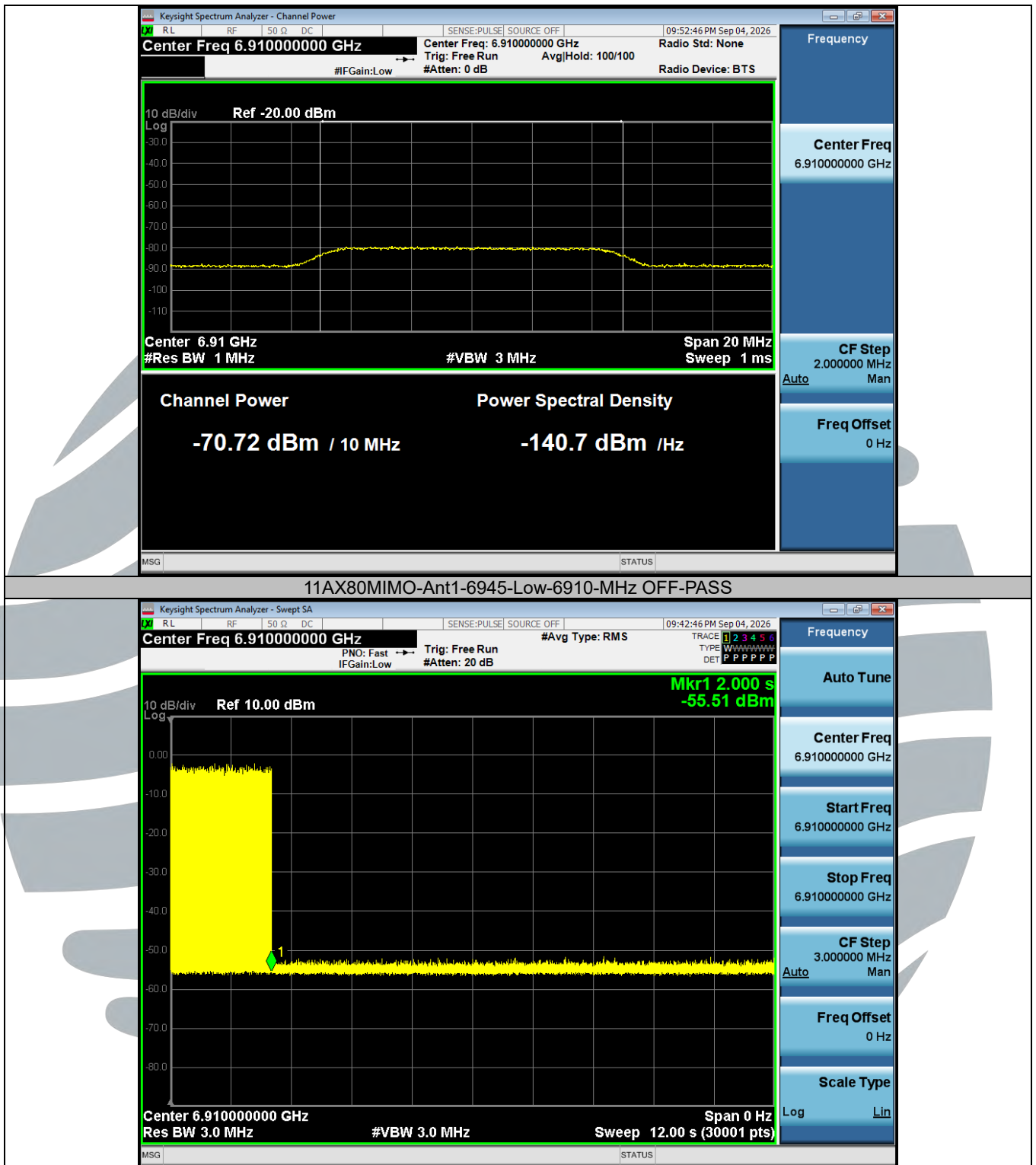
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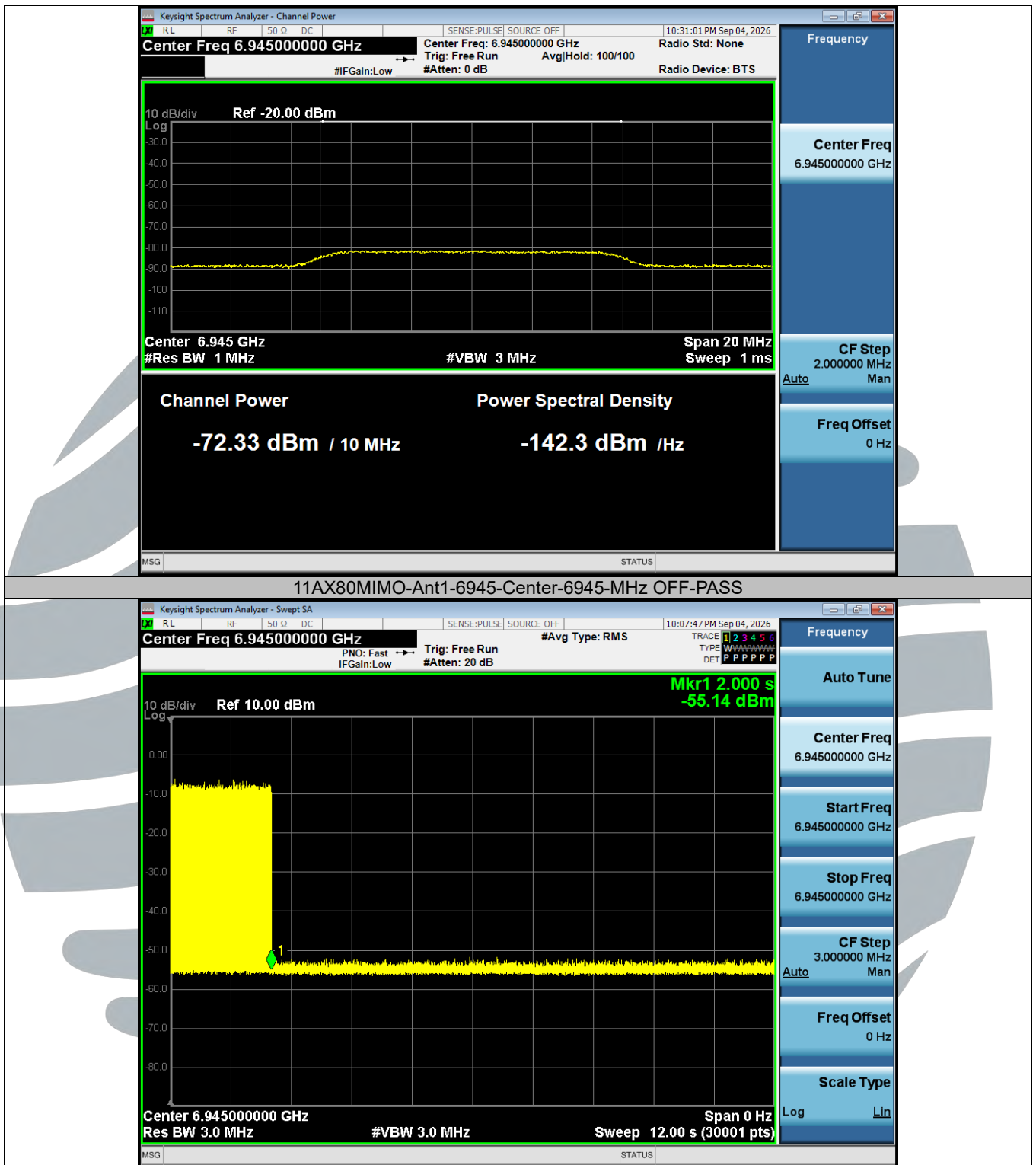
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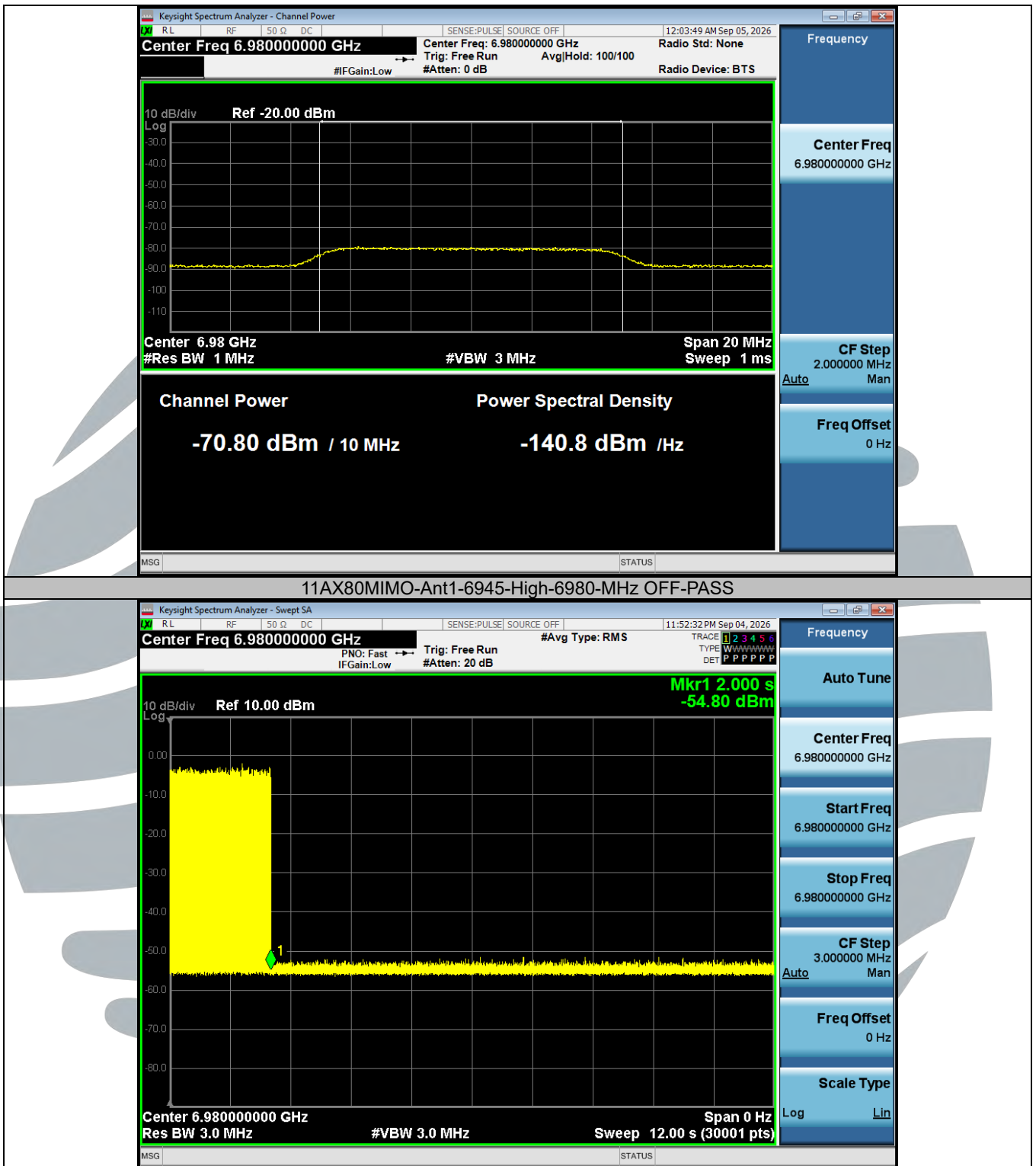
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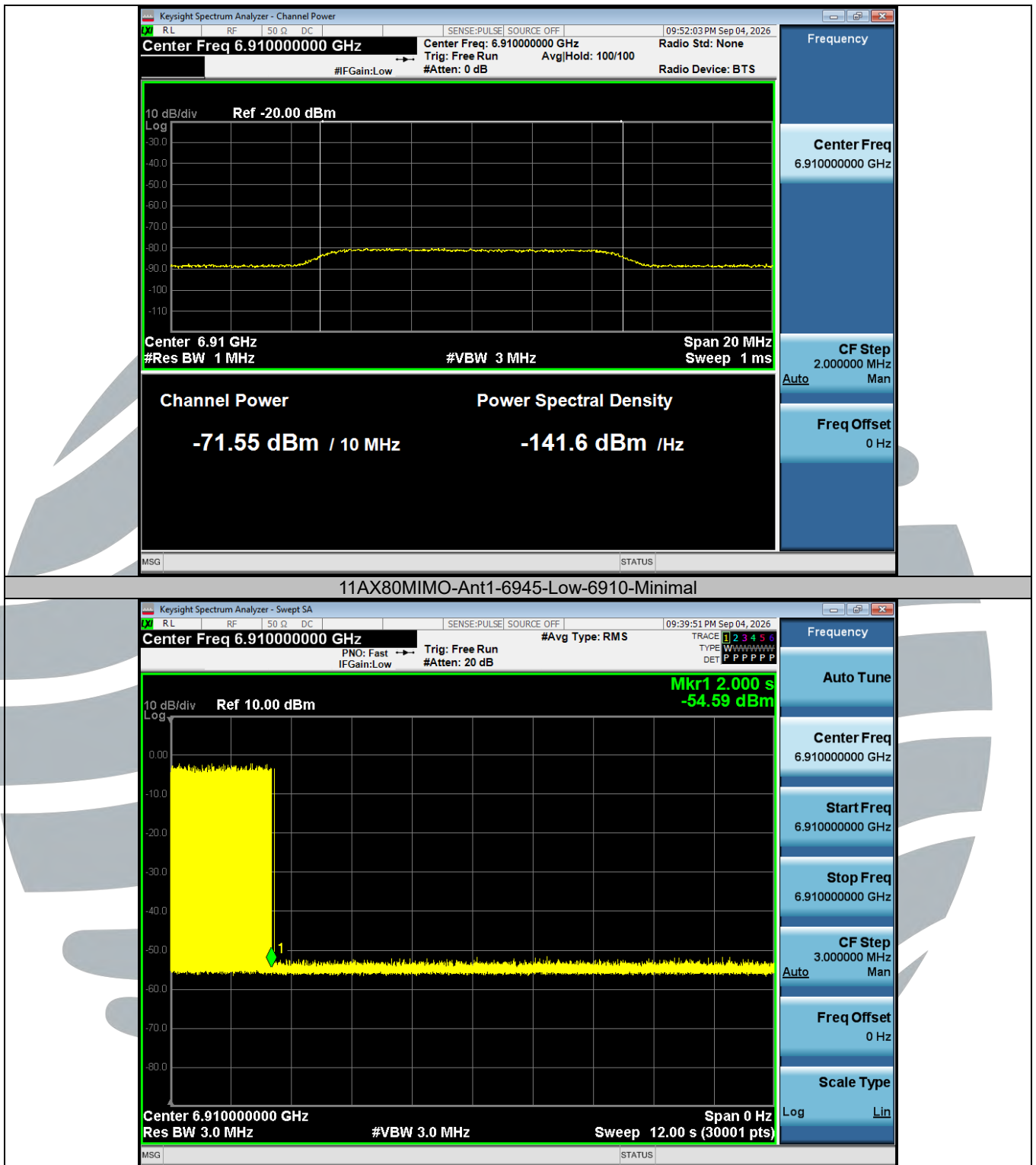
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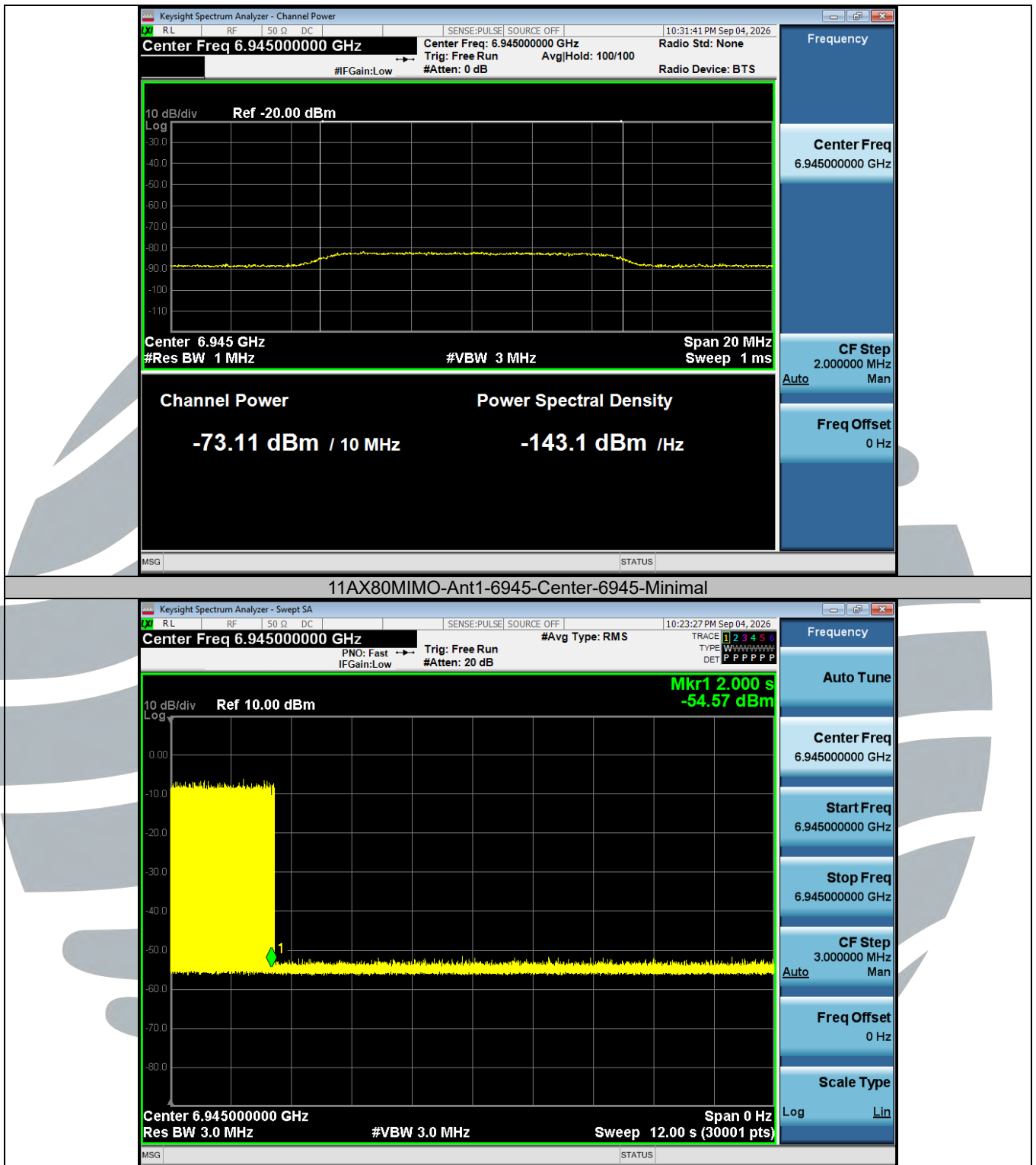
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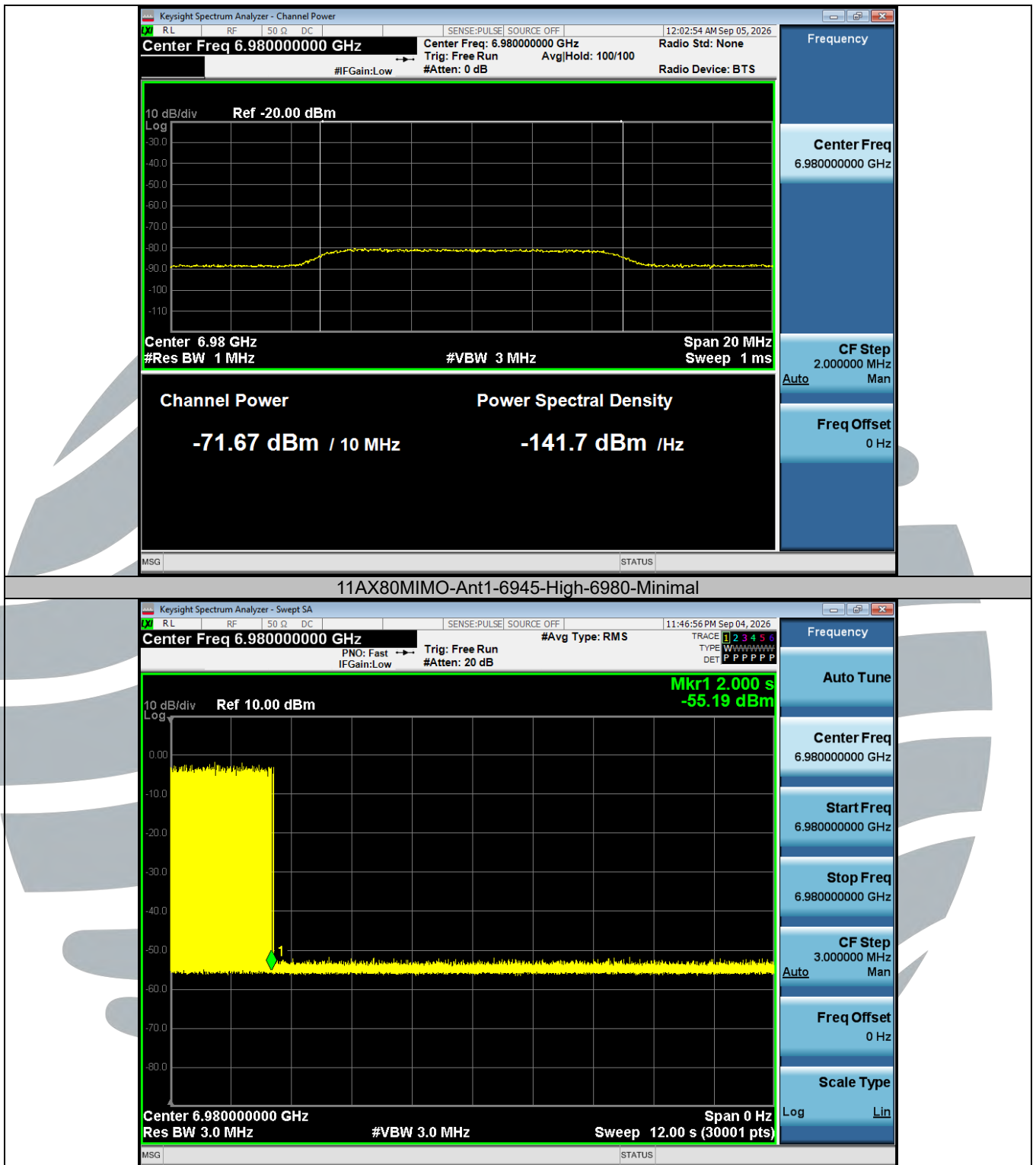
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