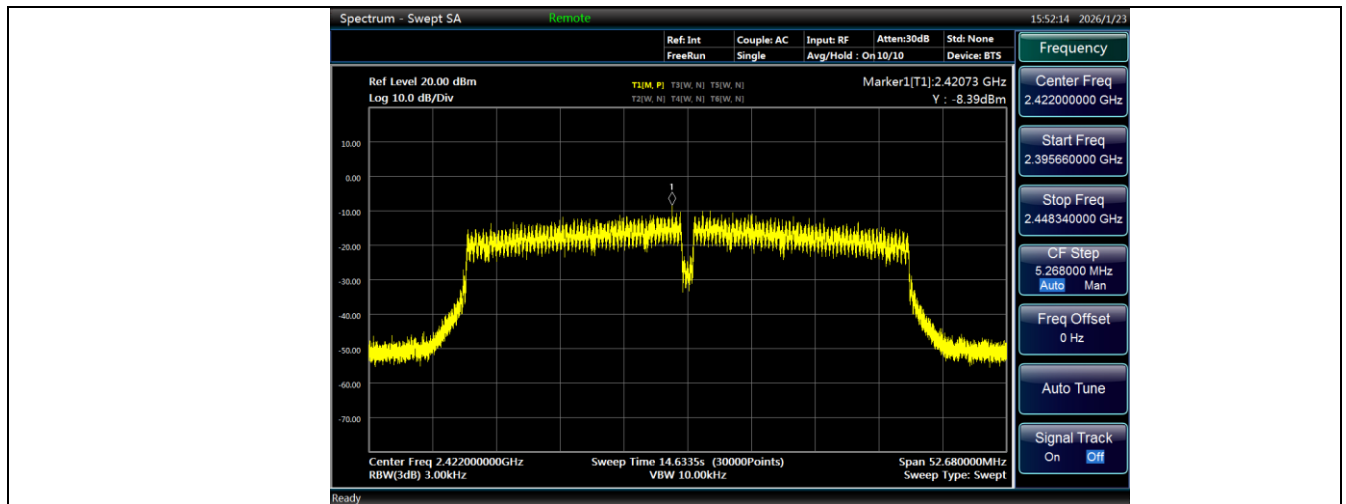
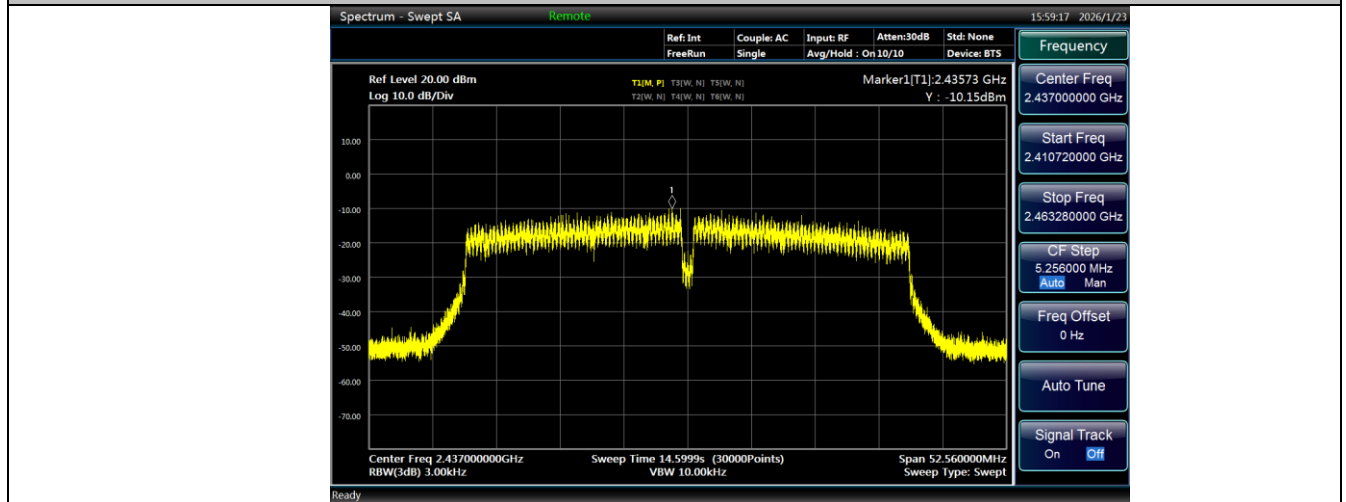
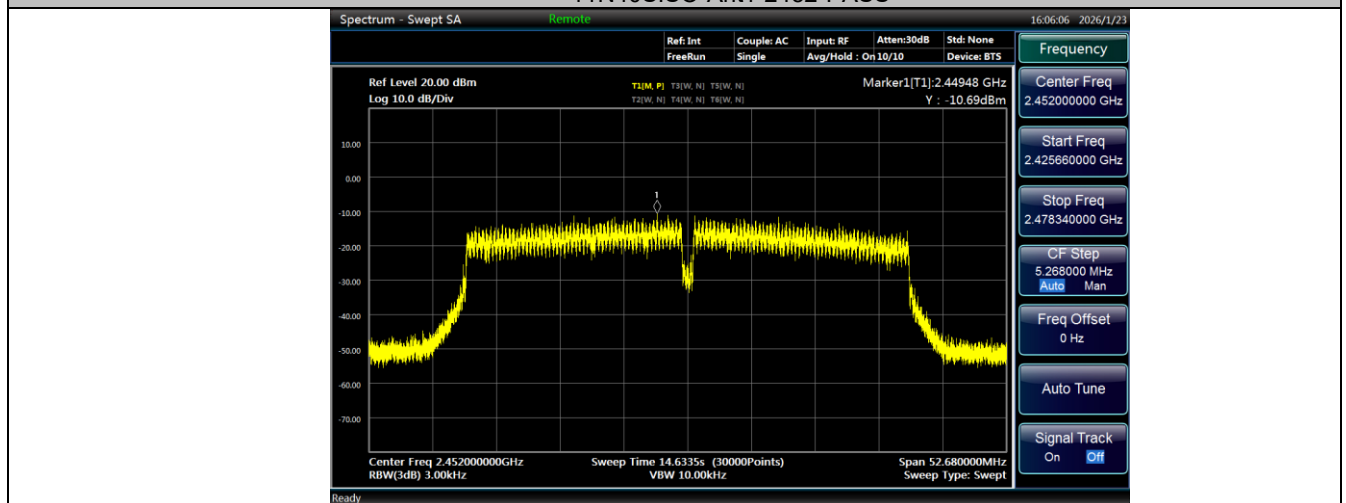




11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



9. CONDUCTED BANDEDGE AND SPURIOUS MEASUREMENT

9.1. LIMITS OF Conducted Bandedge and Spurious Measurement

CFR 47 (FCC) part 15.247 (d)

RSS-247 Clause 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

9.2. TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- 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.

Emission level measurement

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq 3 \times$ RBW.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

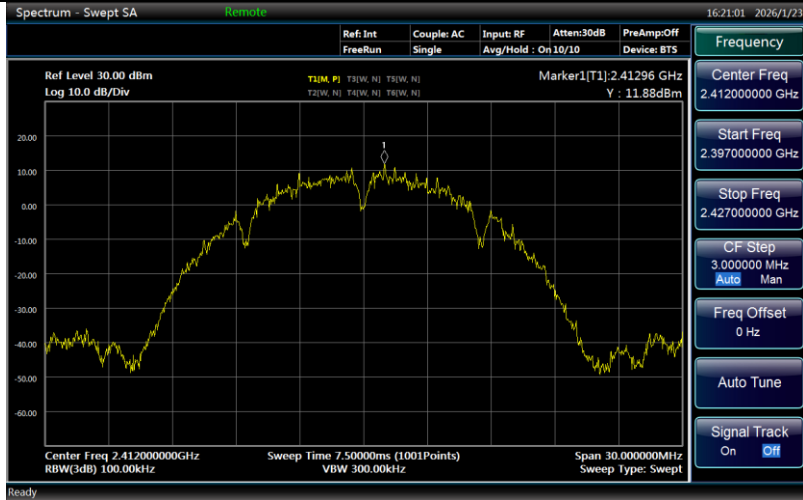
Test Result: All emission outside of 2400-2483.5 are lower at least 20dB than fundamental frequency.

9.3. TEST DATA

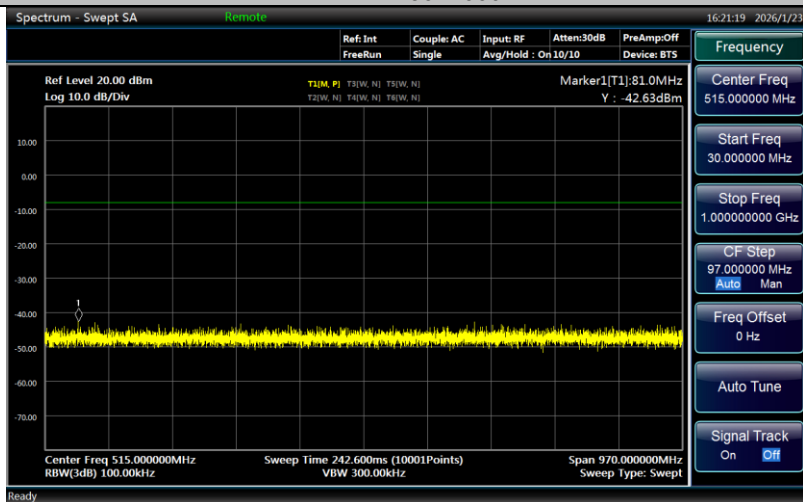
Conducted Spurious Emission

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	11.89	11.89	---	PASS
11B	Ant1	2412	30~1000	11.89	-42.63	≤-8.11	PASS
11B	Ant1	2412	1000~26500	11.89	-37.33	≤-8.11	PASS
11B	Ant1	2437	0~Reference	11.07	11.07	---	PASS
11B	Ant1	2437	30~1000	11.07	-42.32	≤-8.93	PASS
11B	Ant1	2437	1000~26500	11.07	-36.78	≤-8.93	PASS
11B	Ant1	2462	0~Reference	9.26	9.26	---	PASS
11B	Ant1	2462	30~1000	9.26	-42.96	≤-10.74	PASS
11B	Ant1	2462	1000~26500	9.26	-36.89	≤-10.74	PASS
11G	Ant1	2412	0~Reference	7.28	7.28	---	PASS
11G	Ant1	2412	30~1000	7.28	-42.98	≤-12.72	PASS
11G	Ant1	2412	1000~26500	7.28	-37.04	≤-12.72	PASS
11G	Ant1	2437	0~Reference	4.09	4.09	---	PASS
11G	Ant1	2437	30~1000	4.09	-42.73	≤-15.91	PASS
11G	Ant1	2437	1000~26500	4.09	-37.11	≤-15.91	PASS
11G	Ant1	2462	0~Reference	5.47	5.47	---	PASS
11G	Ant1	2462	30~1000	5.47	-43.19	≤-14.53	PASS
11G	Ant1	2462	1000~26500	5.47	-36.95	≤-14.53	PASS
11N20SISO	Ant1	2412	0~Reference	4.19	4.19	---	PASS
11N20SISO	Ant1	2412	30~1000	4.19	-42.77	≤-15.81	PASS
11N20SISO	Ant1	2412	1000~26500	4.19	-36.69	≤-15.81	PASS
11N20SISO	Ant1	2437	0~Reference	5.86	5.86	---	PASS
11N20SISO	Ant1	2437	30~1000	5.86	-42.11	≤-14.14	PASS
11N20SISO	Ant1	2437	1000~26500	5.86	-36.78	≤-14.14	PASS
11N20SISO	Ant1	2462	0~Reference	5.05	5.05	---	PASS
11N20SISO	Ant1	2462	30~1000	5.05	-42.17	≤-14.95	PASS
11N20SISO	Ant1	2462	1000~26500	5.05	-37.18	≤-14.95	PASS
11N40SISO	Ant1	2422	0~Reference	5.52	5.52	---	PASS
11N40SISO	Ant1	2422	30~1000	5.52	-43.29	≤-14.48	PASS
11N40SISO	Ant1	2422	1000~26500	5.52	-36.56	≤-14.48	PASS
11N40SISO	Ant1	2437	0~Reference	5.57	5.57	---	PASS
11N40SISO	Ant1	2437	30~1000	5.57	-42.46	≤-14.43	PASS
11N40SISO	Ant1	2437	1000~26500	5.57	-36.51	≤-14.43	PASS
11N40SISO	Ant1	2452	0~Reference	5.30	5.30	---	PASS
11N40SISO	Ant1	2452	30~1000	5.30	-42.89	≤-14.7	PASS
11N40SISO	Ant1	2452	1000~26500	5.30	-36.04	≤-14.7	PASS

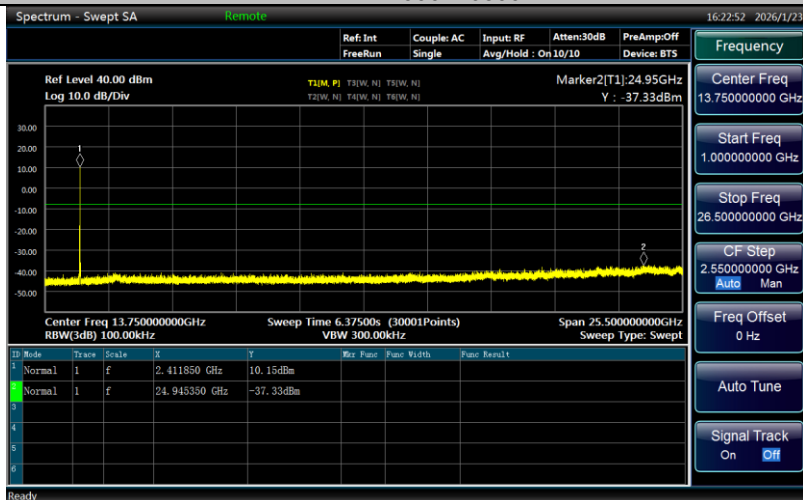
11B-Ant1-2412-0~Reference-PASS



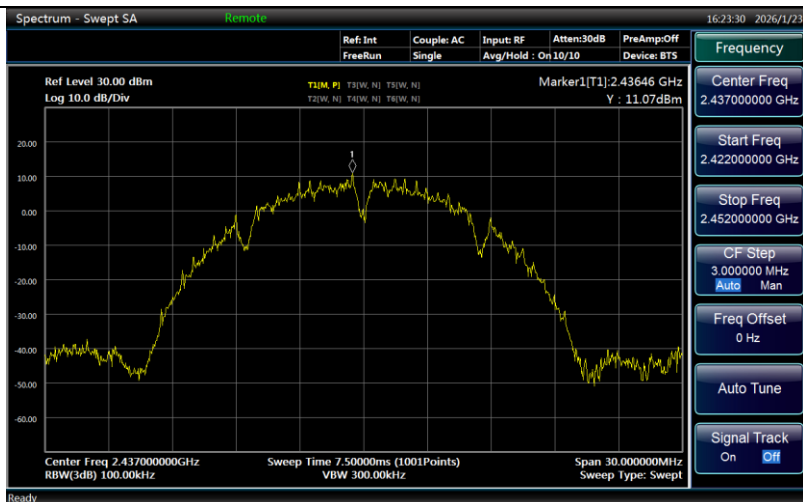
11B-Ant1-2412-30~1000-PASS



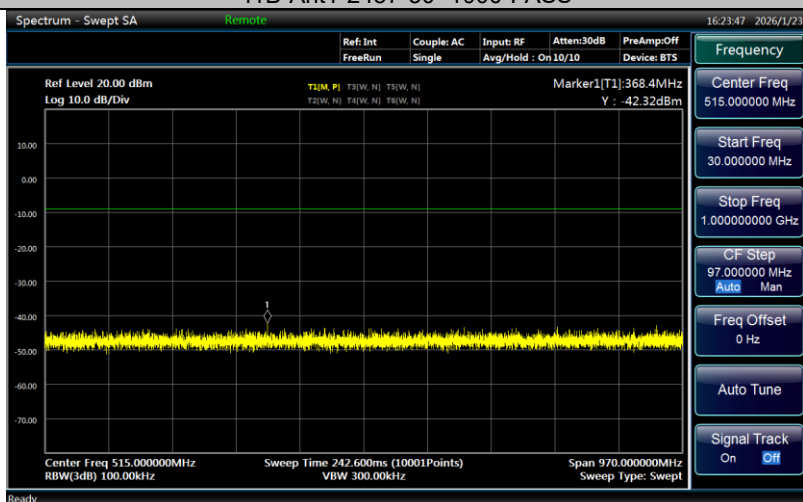
11B-Ant1-2412-1000~26500-PASS



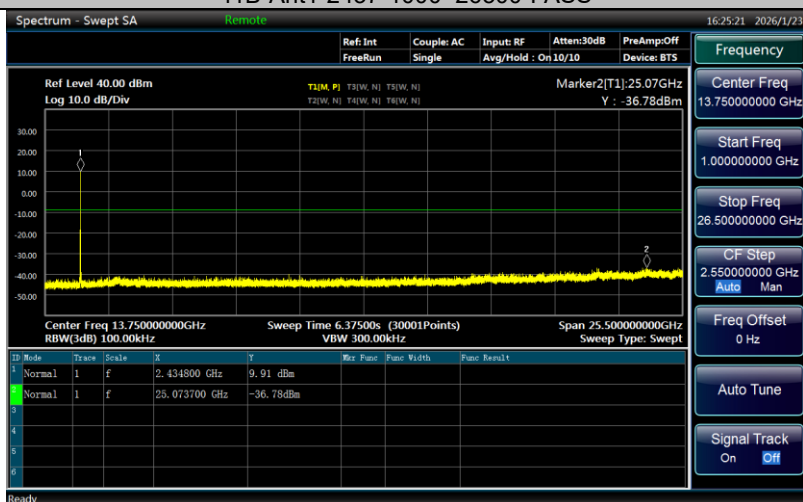
11B-Ant1-2437-0~Reference-PASS



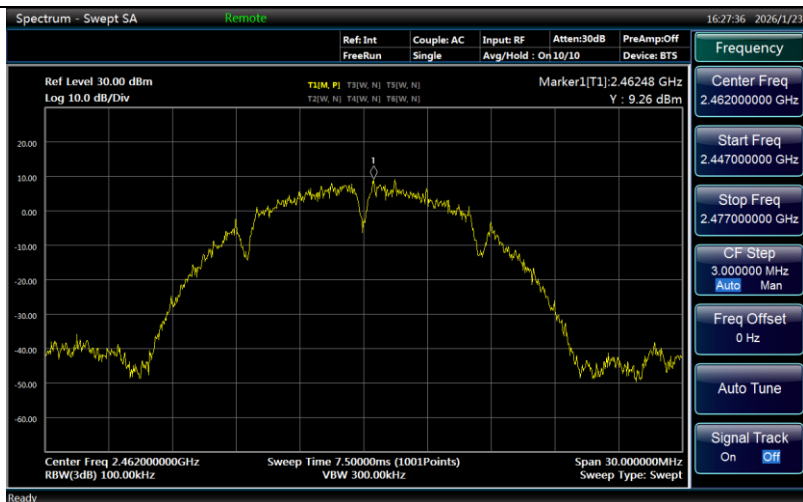
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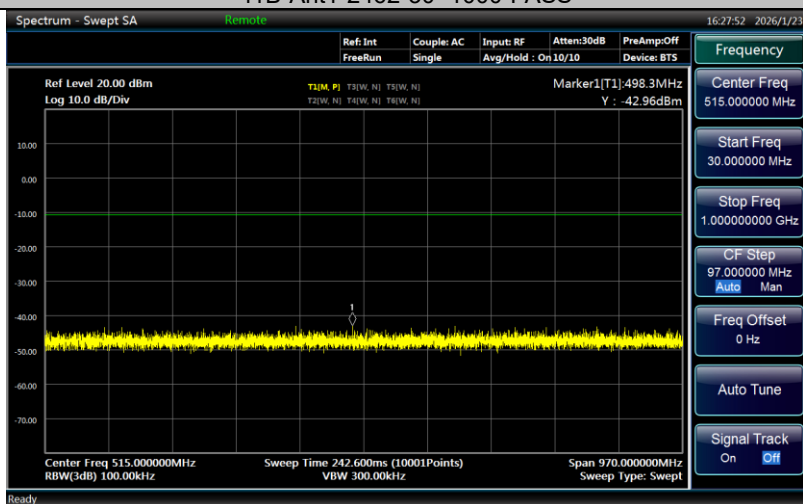
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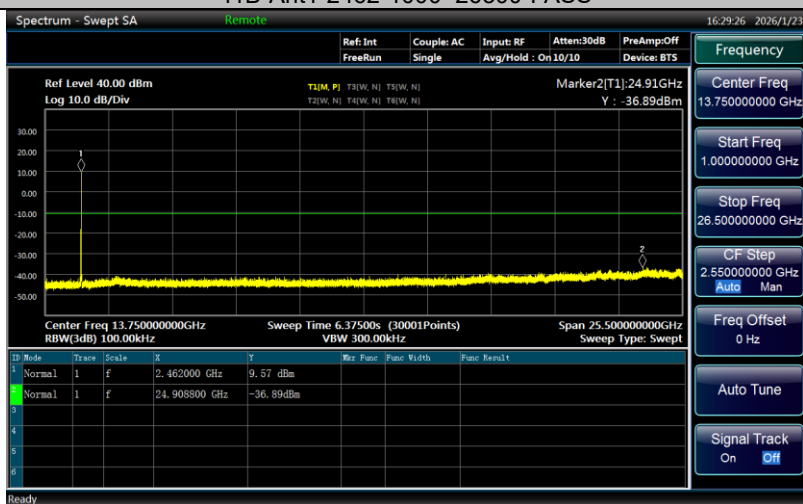
11B-Ant1-2462-0~Reference-PASS



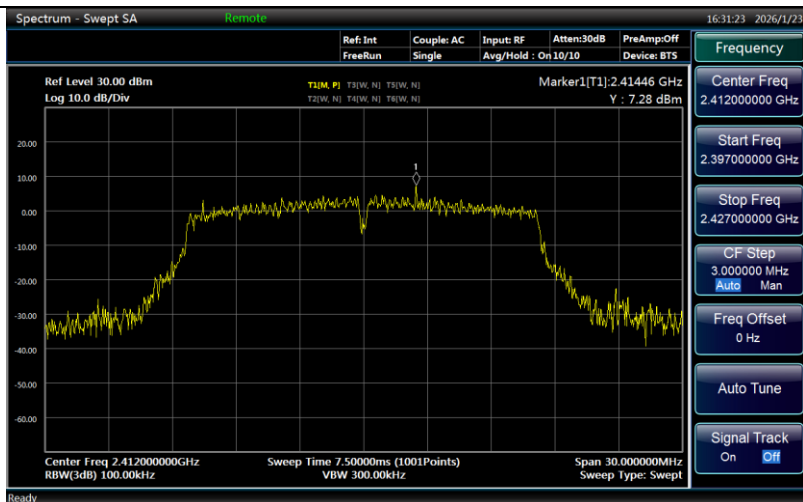
11B-Ant1-2462-30~1000-PASS



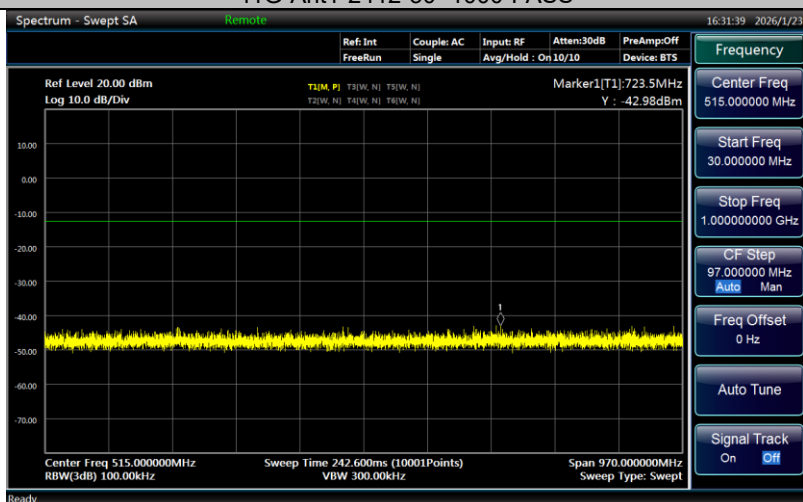
11B-Ant1-2462-1000~26500-PASS



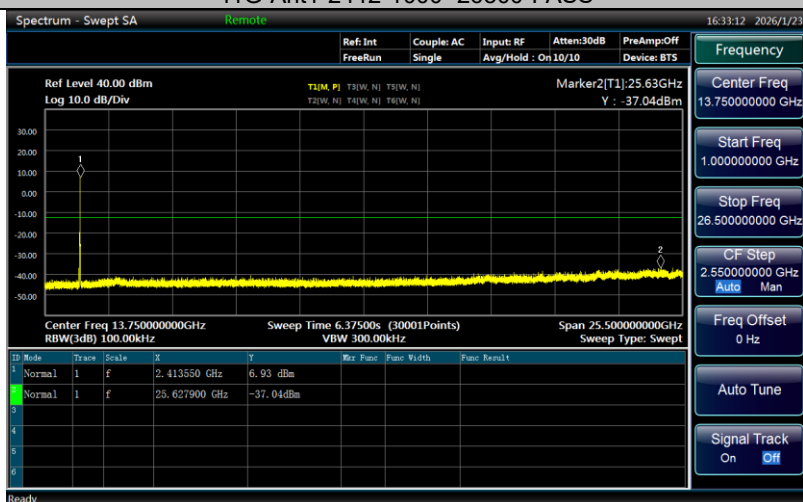
11G-Ant1-2412-0~Reference-PASS



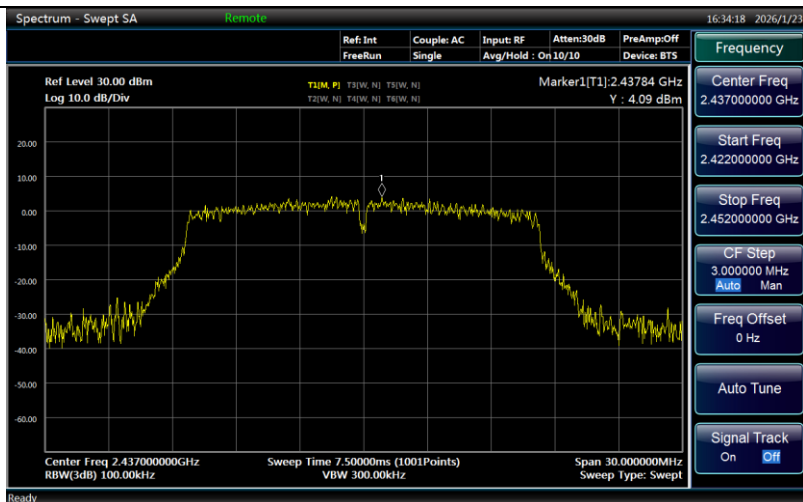
11G-Ant1-2412-30~1000-PASS



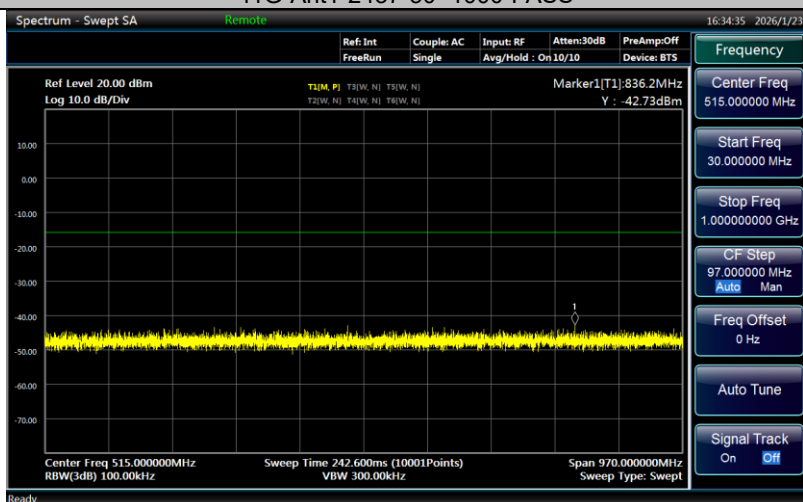
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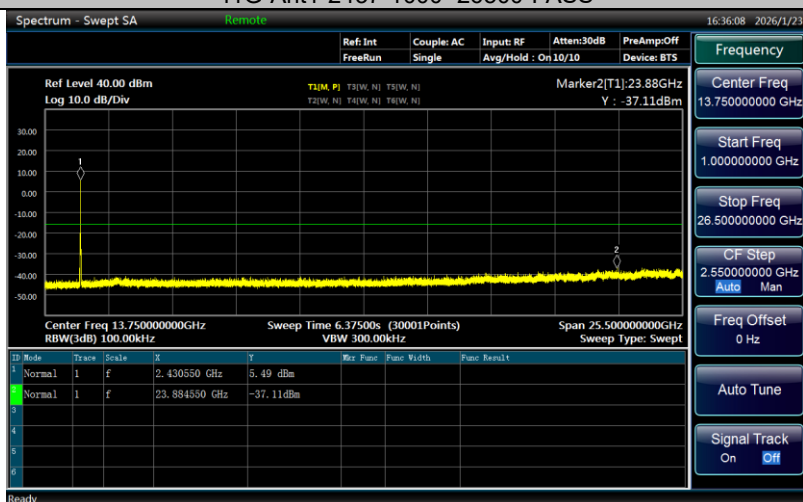
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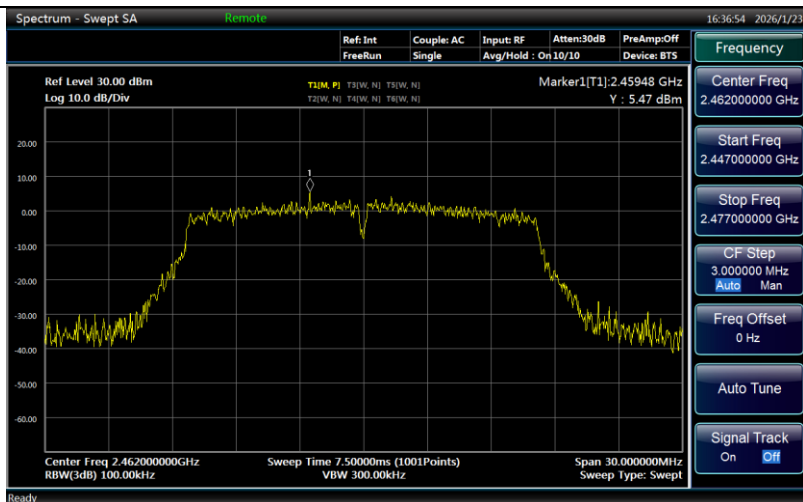
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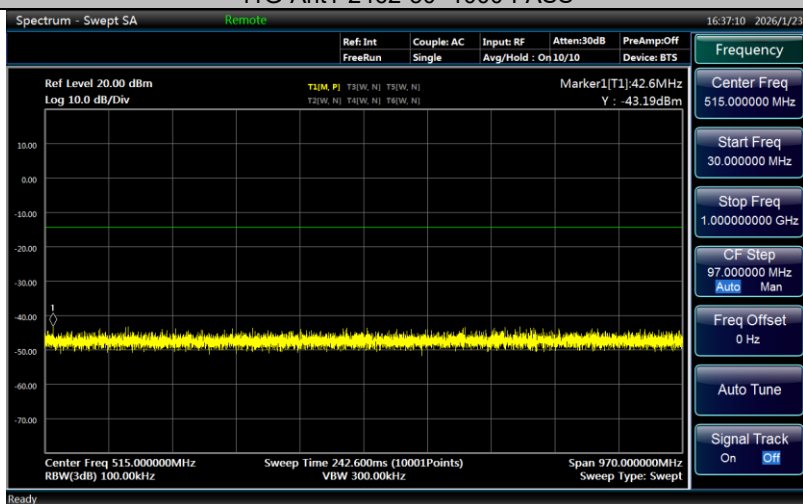
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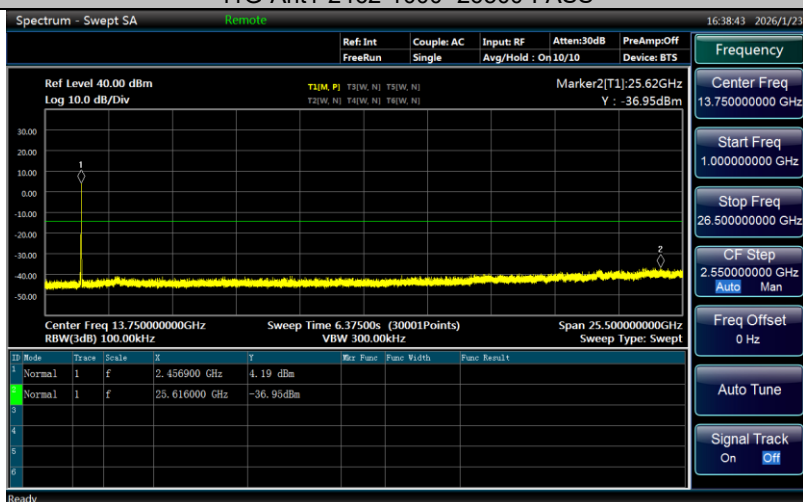
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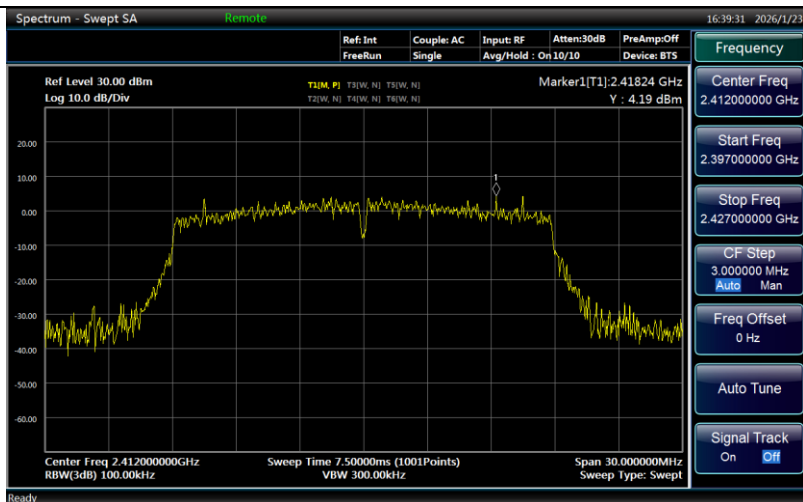
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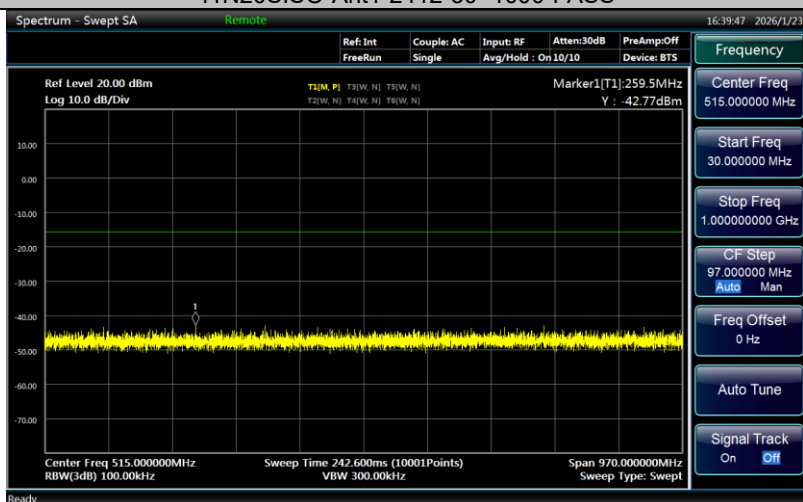
11G-Ant1-2462-1000~26500-PASS



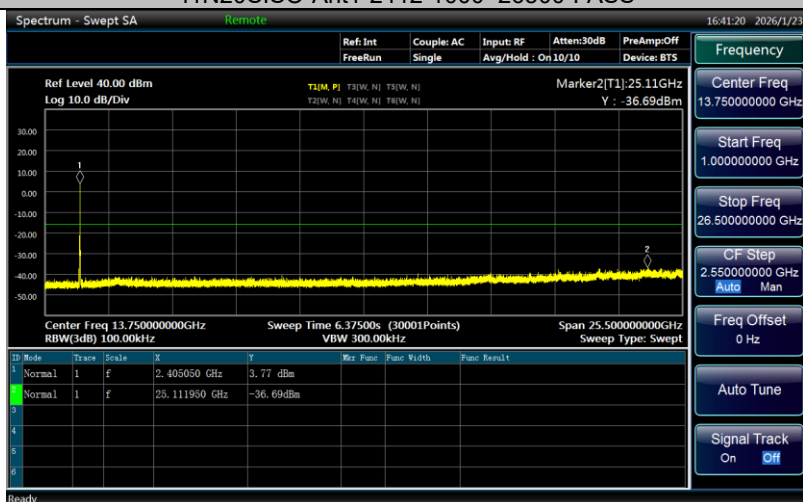
11N20SISO-Ant1-2412-0~Reference-PASS



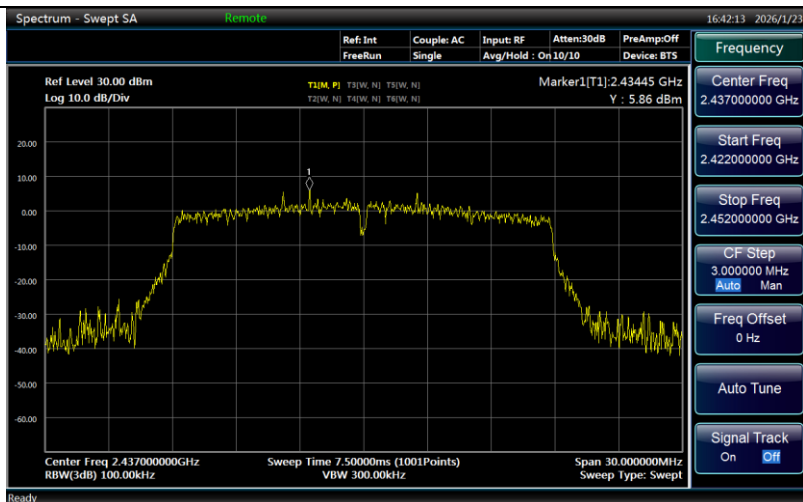
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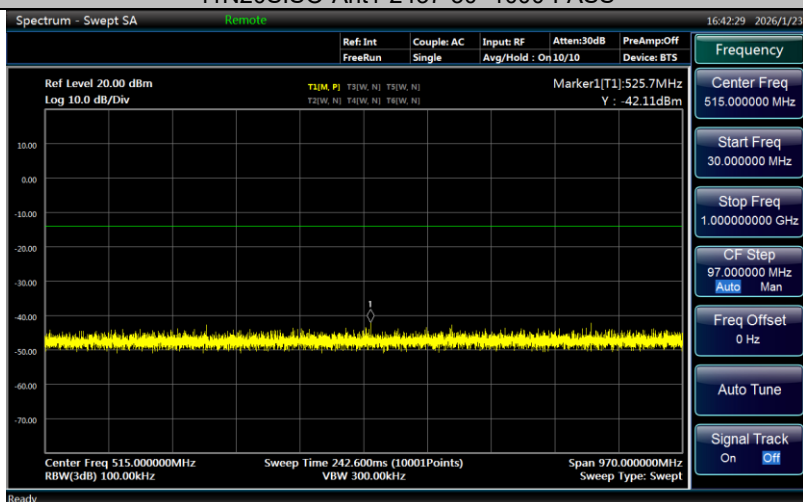
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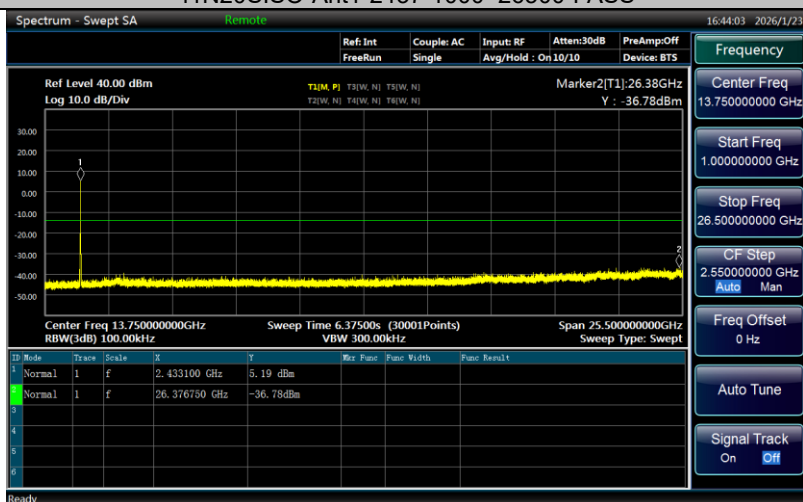
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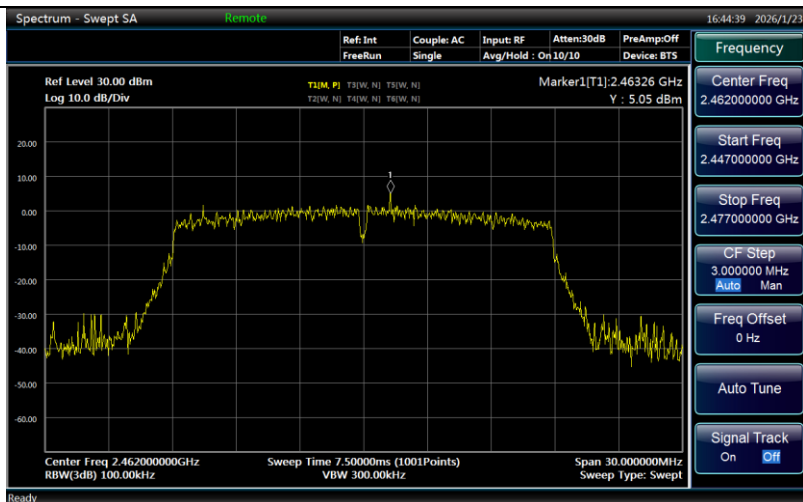
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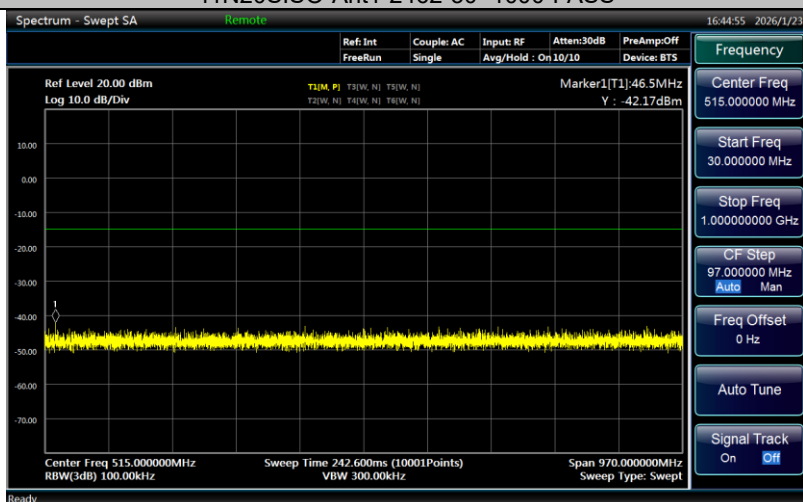
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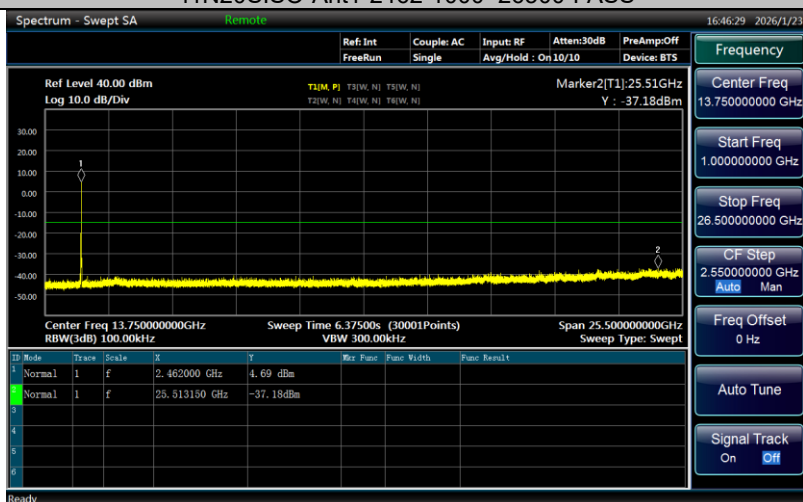
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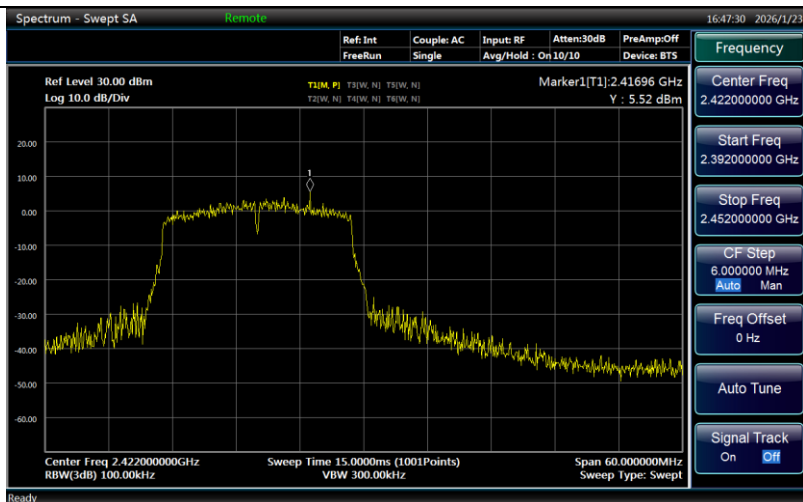
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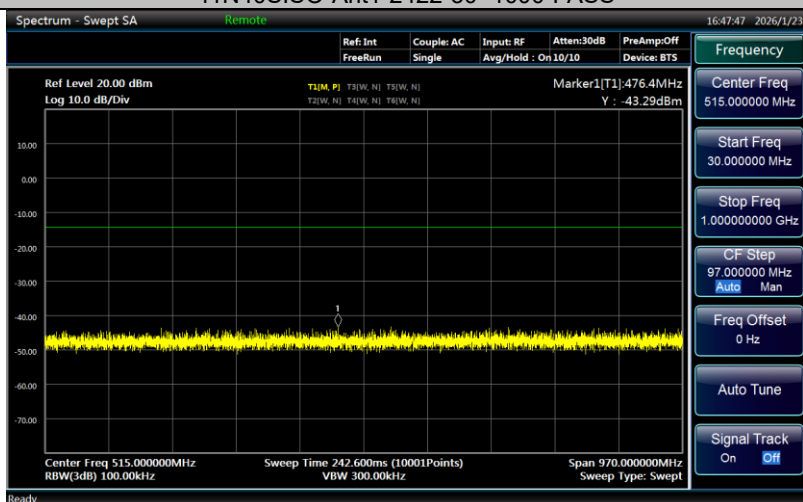
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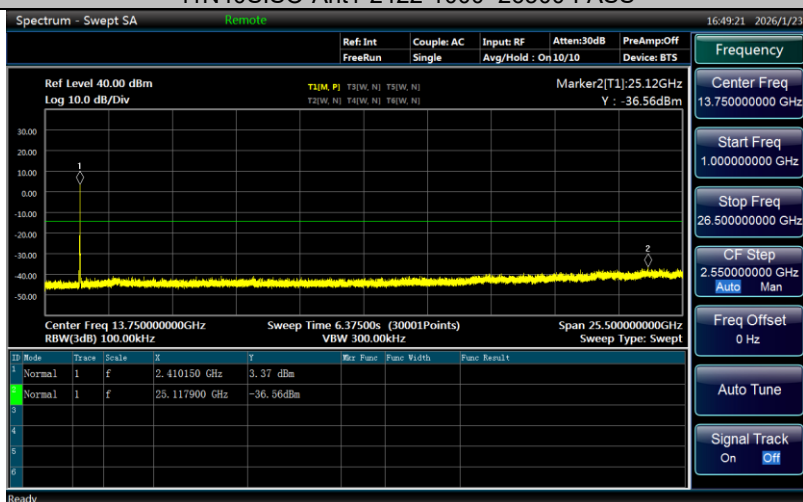
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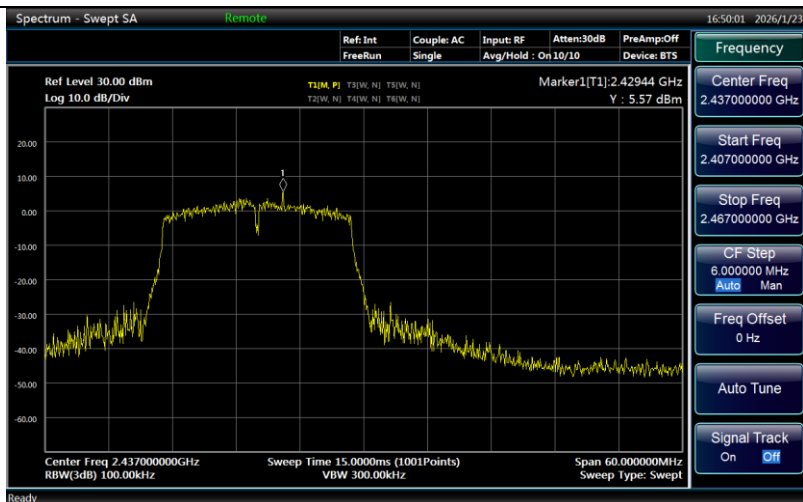
11N40SISO-Ant1-2422-30~1000-PASS



11N40SISO-Ant1-2422-1000~26500-PASS



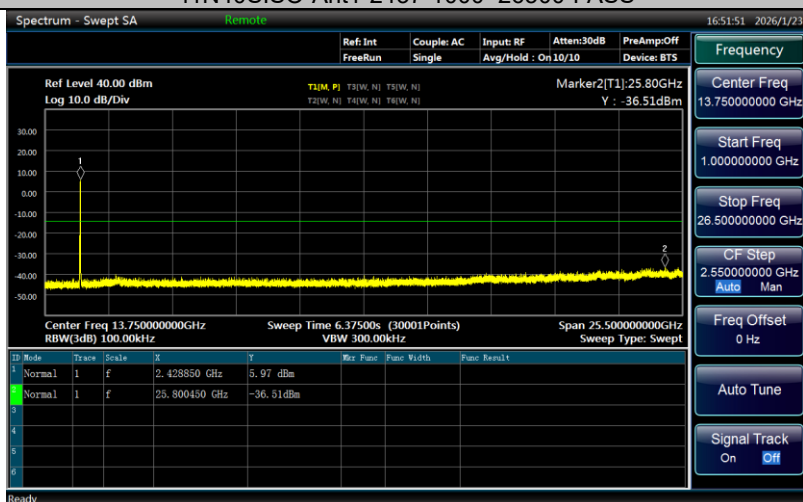
11N40SISO-Ant1-2437-0~Reference-PASS



11N40SISO-Ant1-2437-30~1000-PASS



11N40SISO-Ant1-2437-1000~26500-PASS



11N40SISO-Ant1-2452-0~Reference-PASS