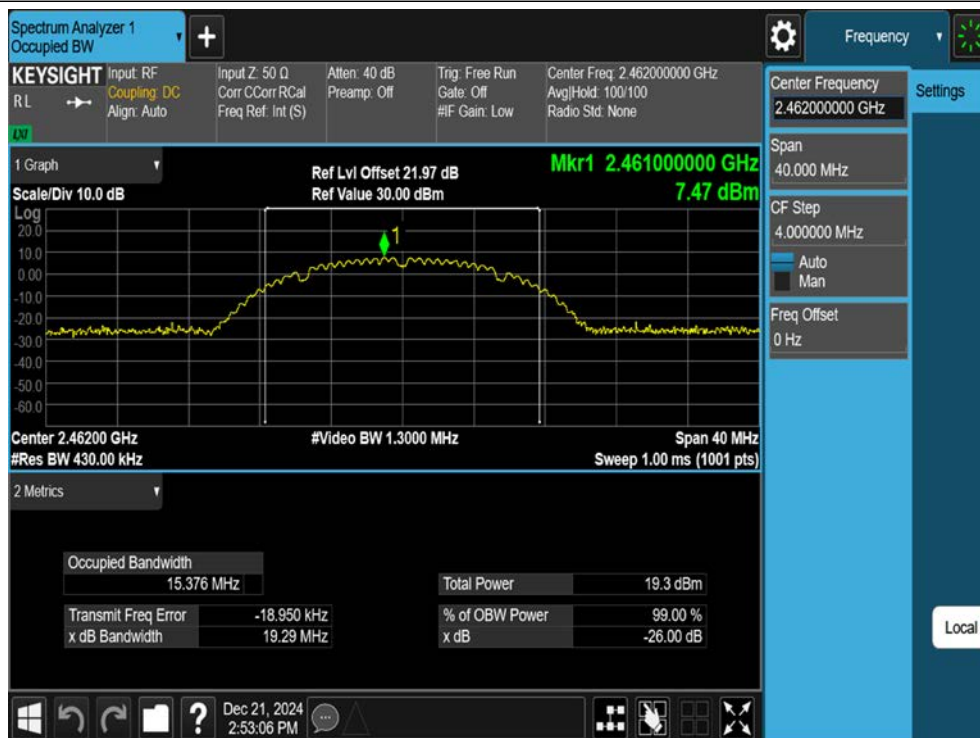
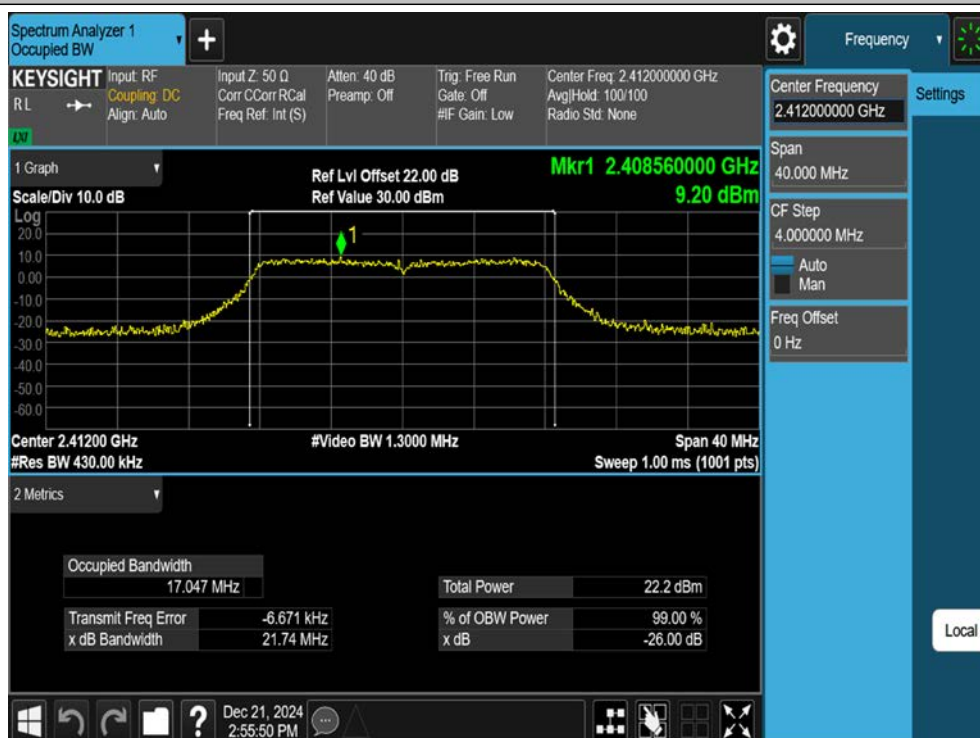
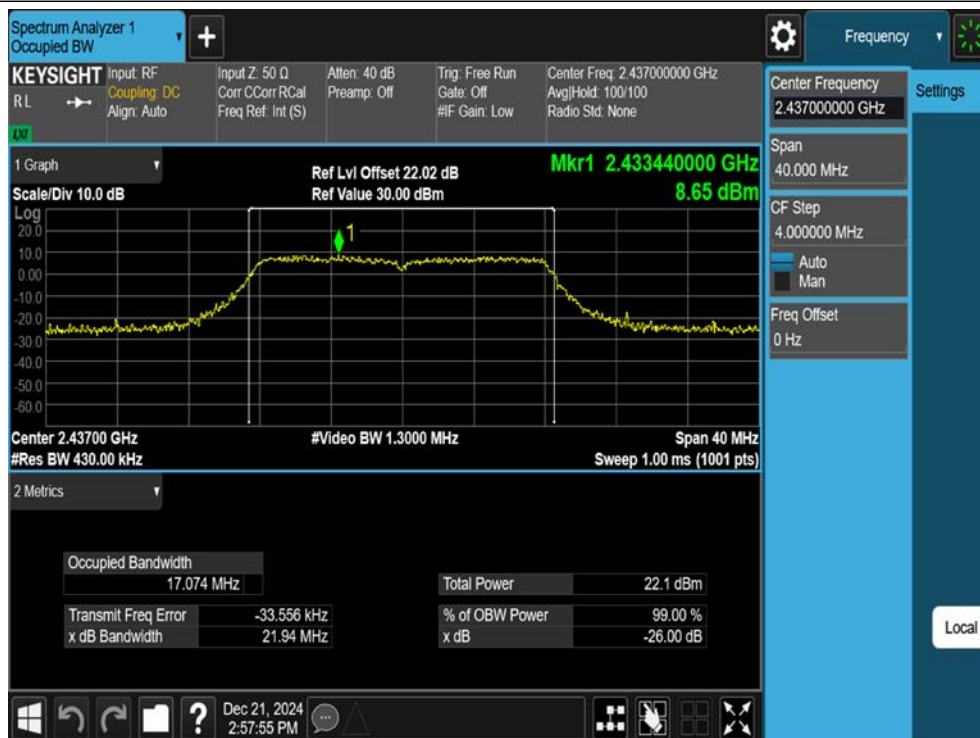




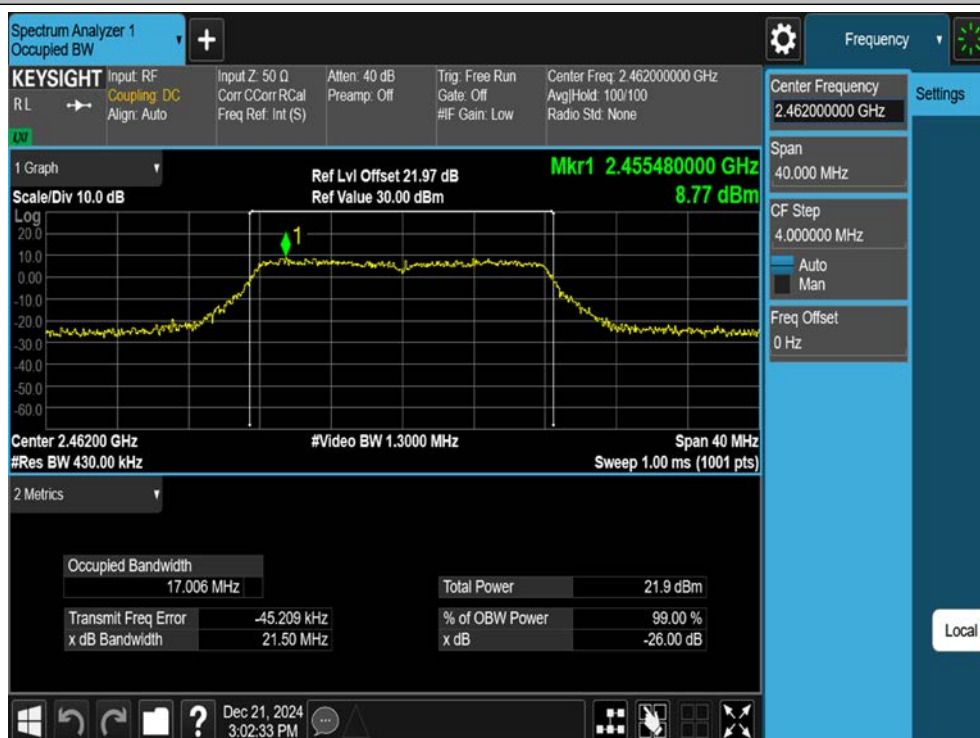
11B-Ant1-2462



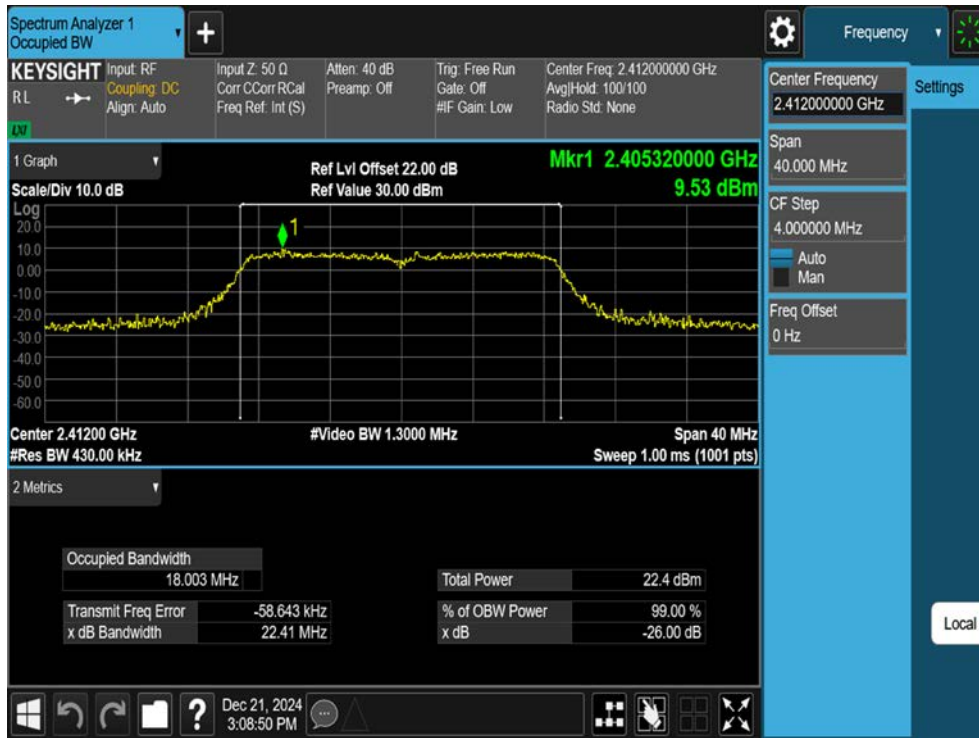
11G-Ant1-2412



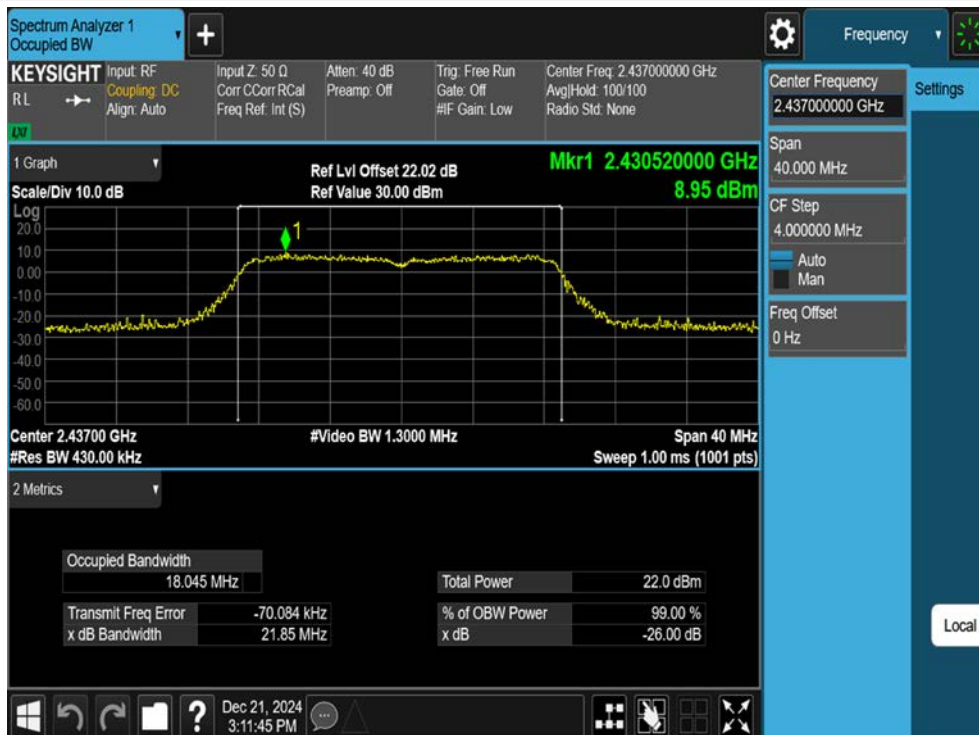
11G-Ant1-2437



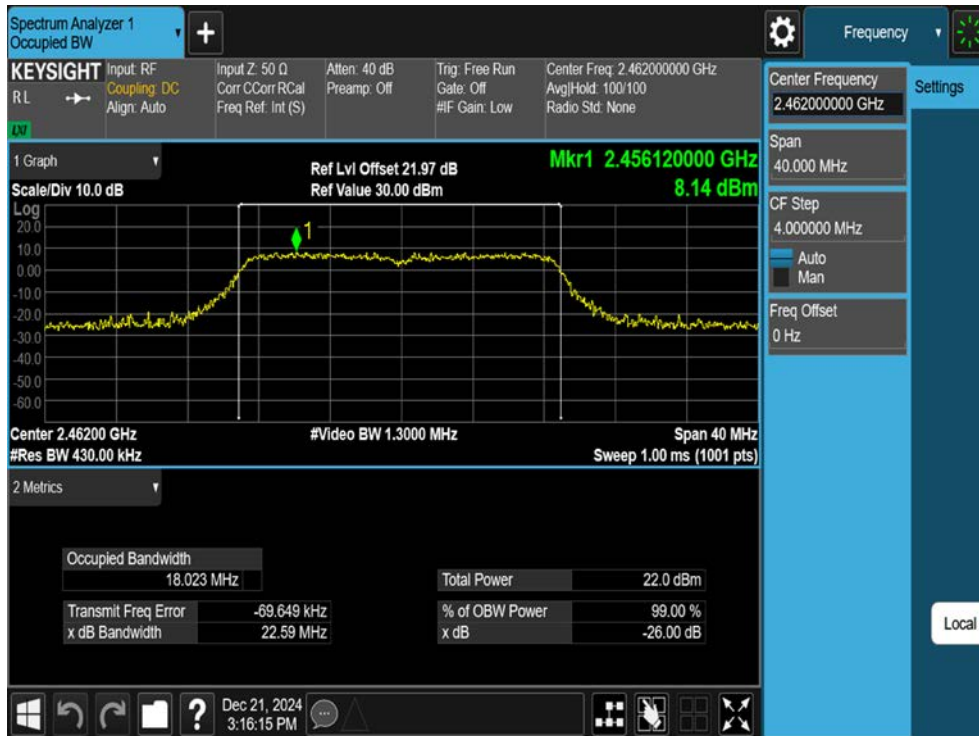
11G-Ant1-2462



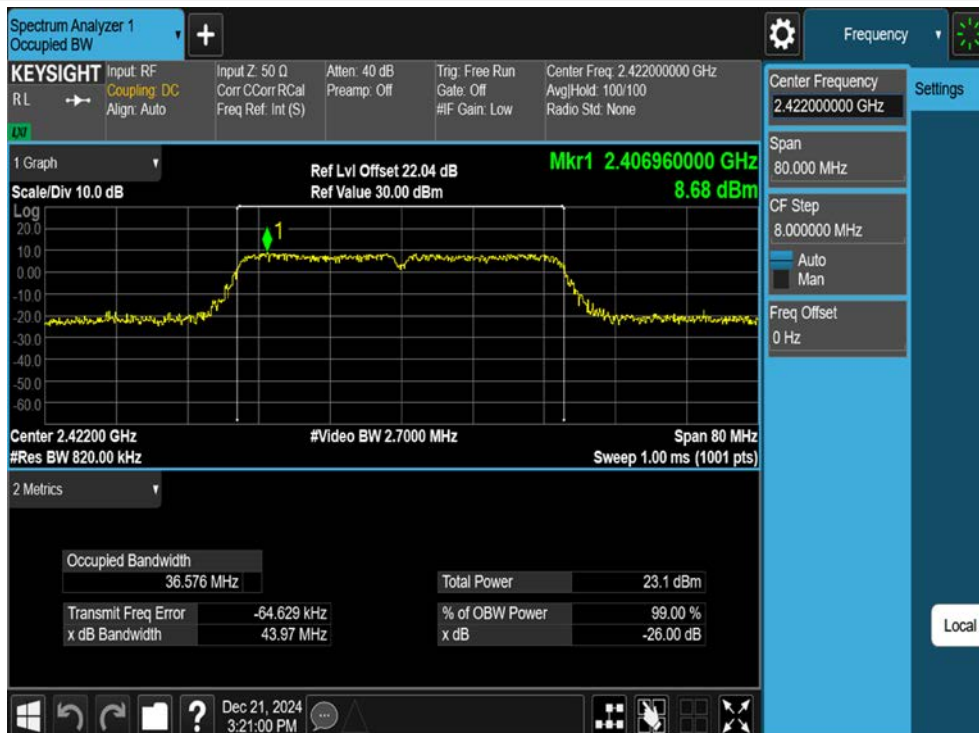
11N20SISO-Ant1-2412



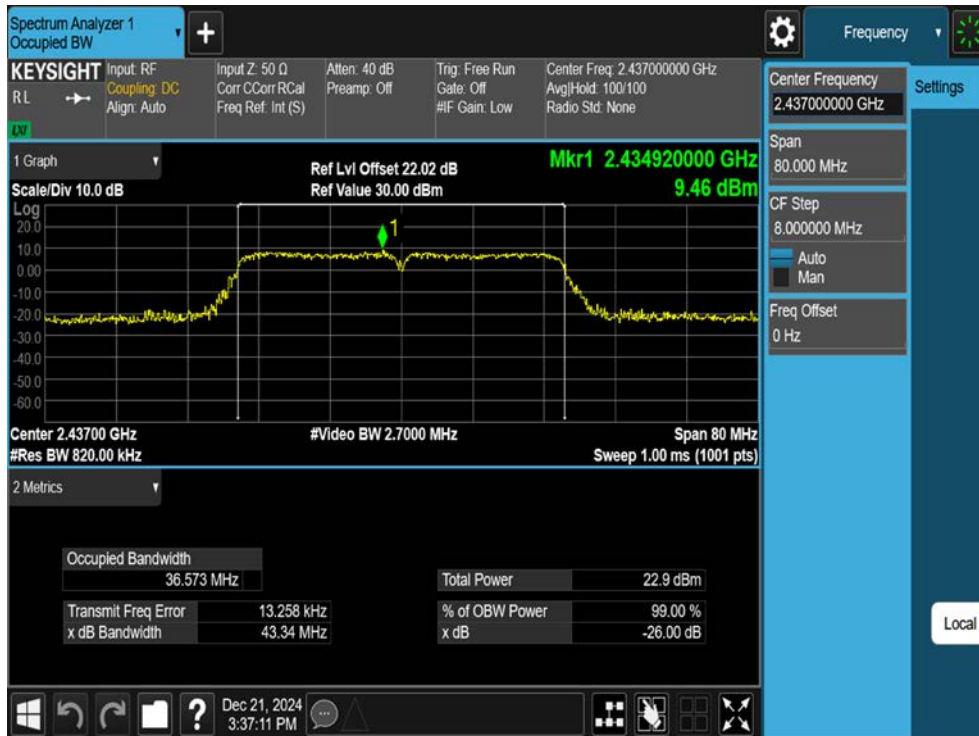
11N20SISO-Ant1-2437



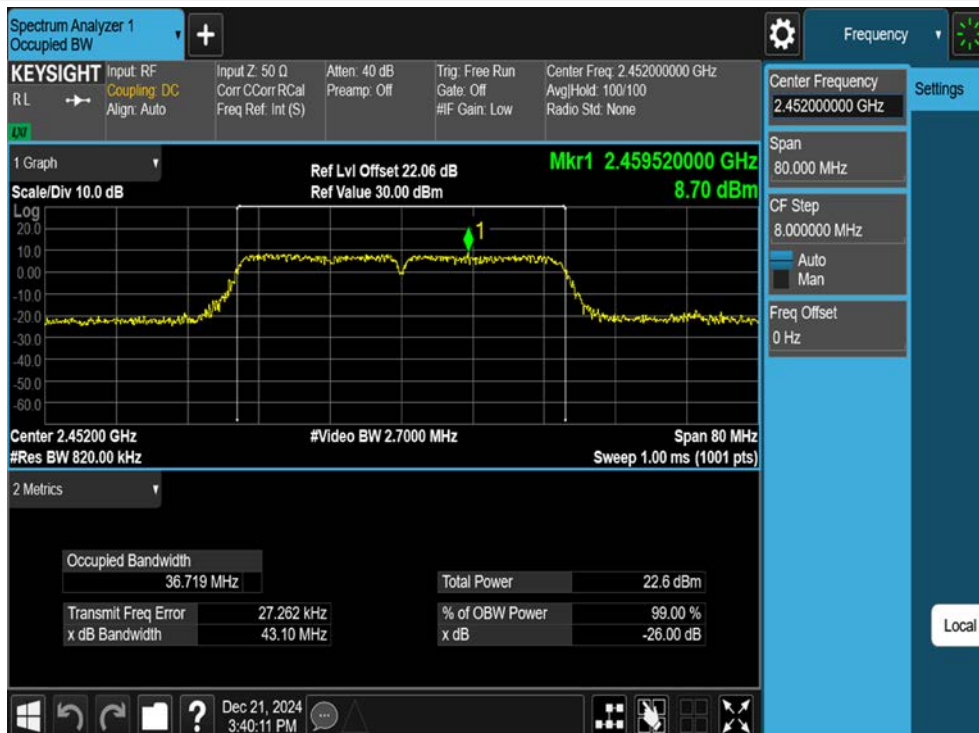
11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

3.5 Maximum conducted output power

3.5.1 Limit

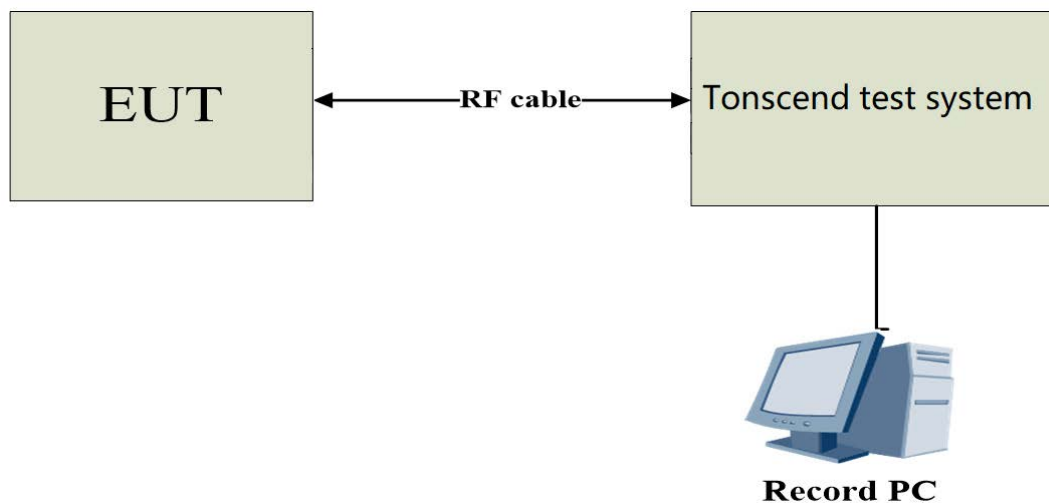
For systems using digital modulation in the 2400~2483.5MHz, The Maximum output Power shall not exceed 1W(30dBm)

3.5.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3 (for average power) of ANSI C63.10-2013.

3.5.3 Test Setup



3.5.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Power setting value

Test Mode	Power Level Setting defined by Manufacturer		
Test Software Version	Realtek 11ac 8821C		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	34	34	34
IEEE 802.11g	31	31	31
IEEE 802.11n(20)	31	31	31
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(20)	27	27	27

3.5.5 The Result

Test Mode	Antenna	Frequency[MHz]	Maximum conducted output Power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	16.67	≤30.00	PASS
		2437	16.07	≤30.00	PASS
		2462	16.30	≤30.00	PASS
11G	Ant1	2412	16.38	≤30.00	PASS
		2437	16.15	≤30.00	PASS
		2462	16.08	≤30.00	PASS
11N20SISO	Ant1	2412	16.63	≤30.00	PASS
		2437	16.16	≤30.00	PASS
		2462	16.56	≤30.00	PASS
11N40SISO	Ant1	2422	16.41	≤30.00	PASS
		2437	16.07	≤30.00	PASS
		2452	16.55	≤30.00	PASS

Note: The duty cycle factor and line loss are compensated in the average conducted output power.

3.6 Power Spectral Density

3.6.1 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 transmitting.

3.6.2 Test Procedure

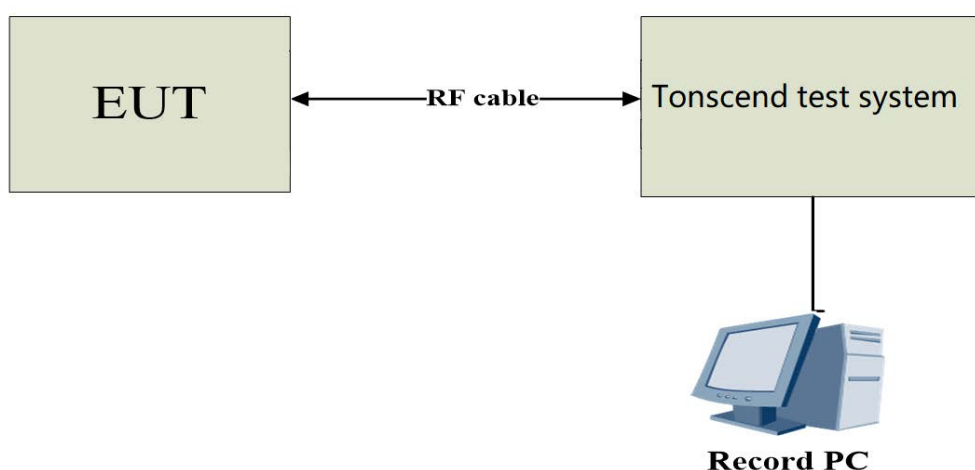
Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) Spectrum analyser settings as following:

Spectrum Parameters	Setting
Span Frequency	1.5 times the DTS bandwidth
RBW	3 kHz
VBW	10 kHz
Detector	Average
Trace	Max Hold
Sweep Time	Auto

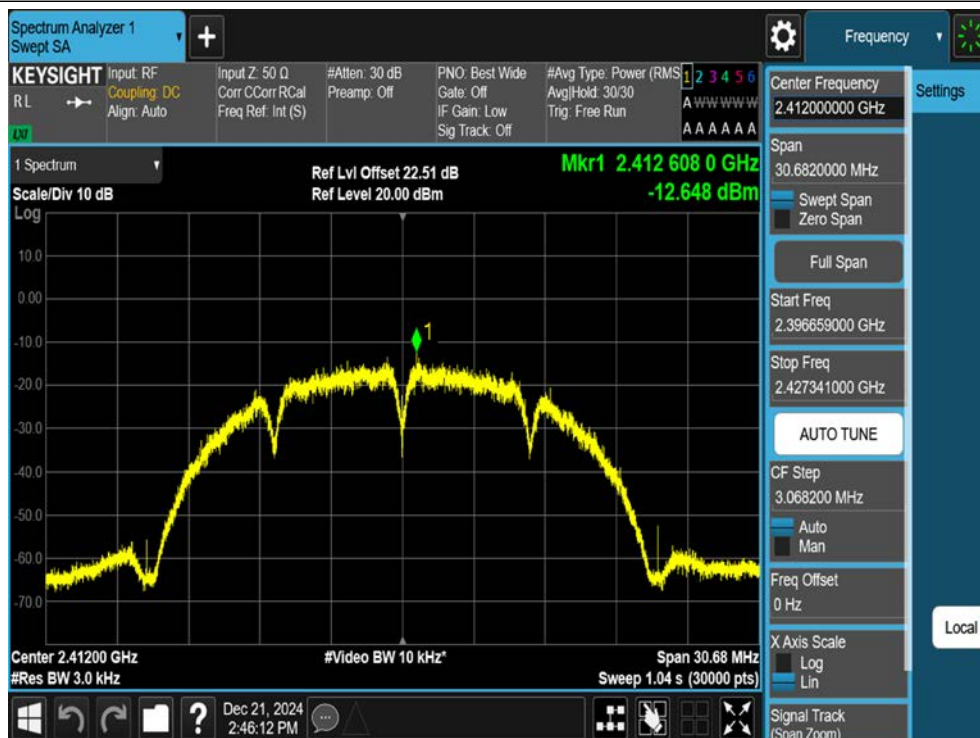
3.6.3 Test Setup



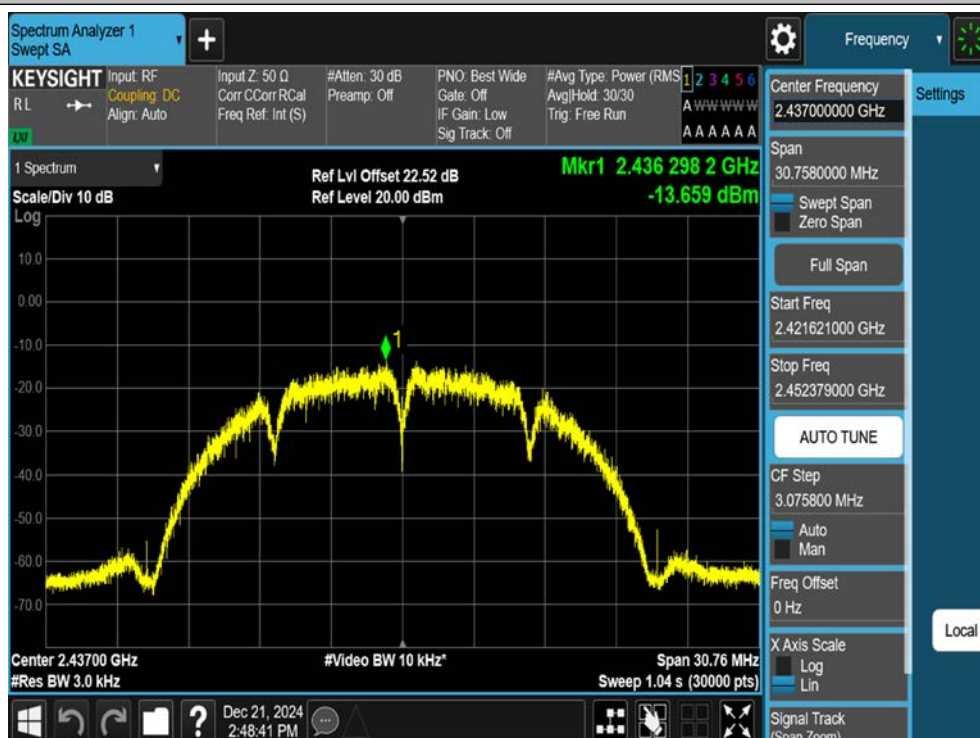
3.6.4 The Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.65	≤8.00	PASS
		2437	-13.66	≤8.00	PASS
		2462	-13.58	≤8.00	PASS
11G	Ant1	2412	-13.42	≤8.00	PASS
		2437	-14.70	≤8.00	PASS
		2462	-13.60	≤8.00	PASS
11N20SISO	Ant1	2412	-13.15	≤8.00	PASS
		2437	-13.30	≤8.00	PASS
		2462	-12.61	≤8.00	PASS
11N40SISO	Ant1	2422	-14.92	≤8.00	PASS
		2437	-15.51	≤8.00	PASS
		2452	-15.97	≤8.00	PASS

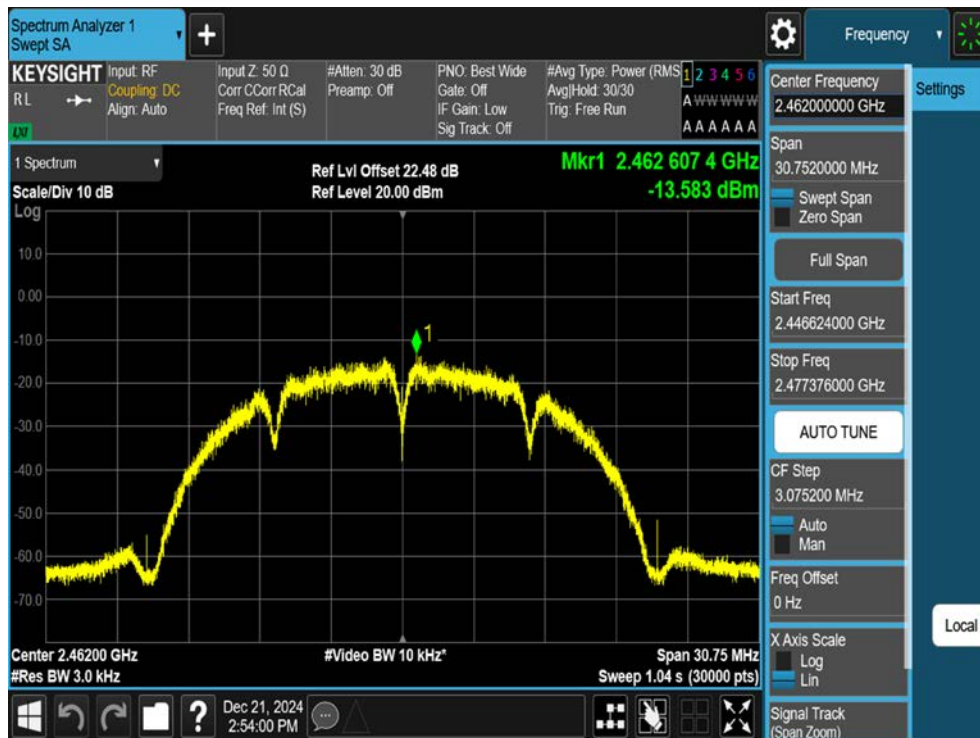
Note: The duty cycle factor and line loss are compensated in the test graph.



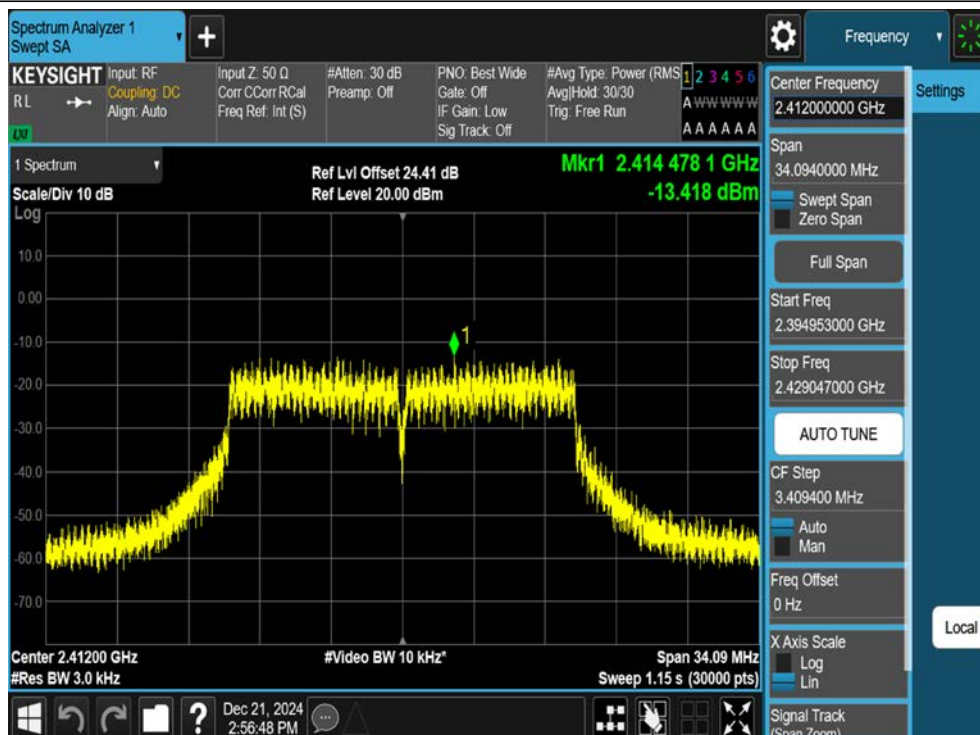
11B-Ant1-2412-PASS



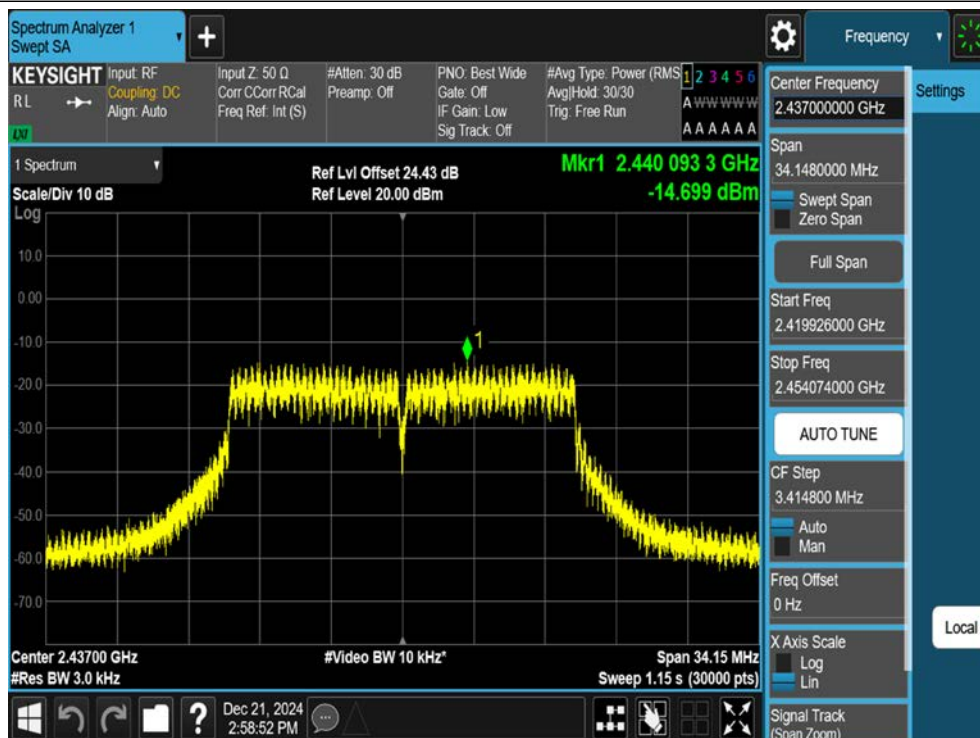
11B-Ant1-2437-PASS



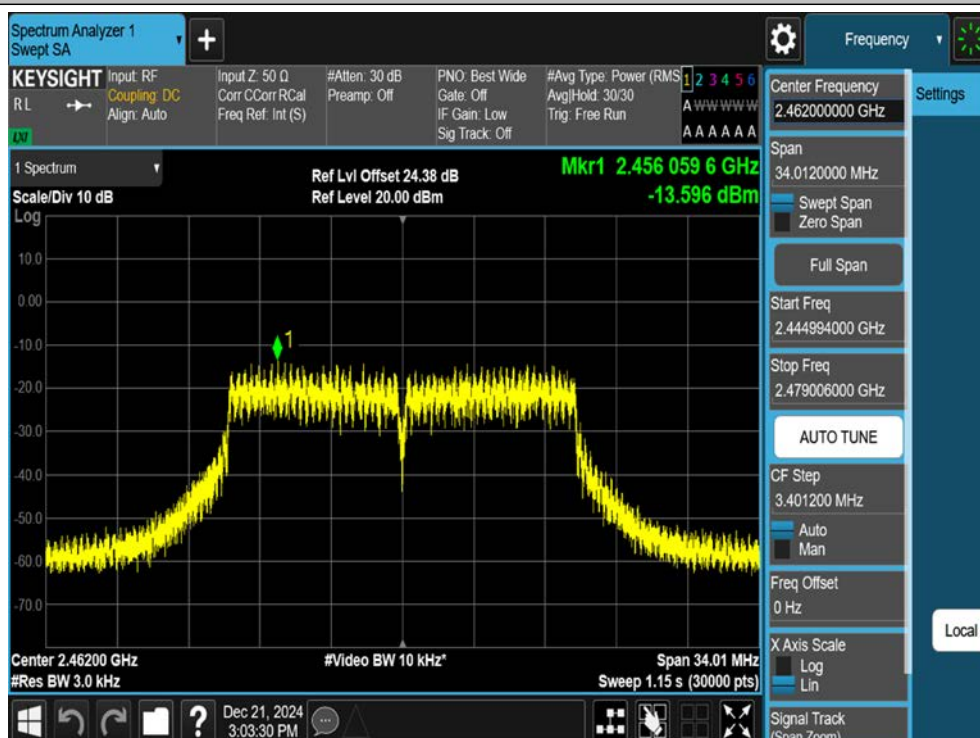
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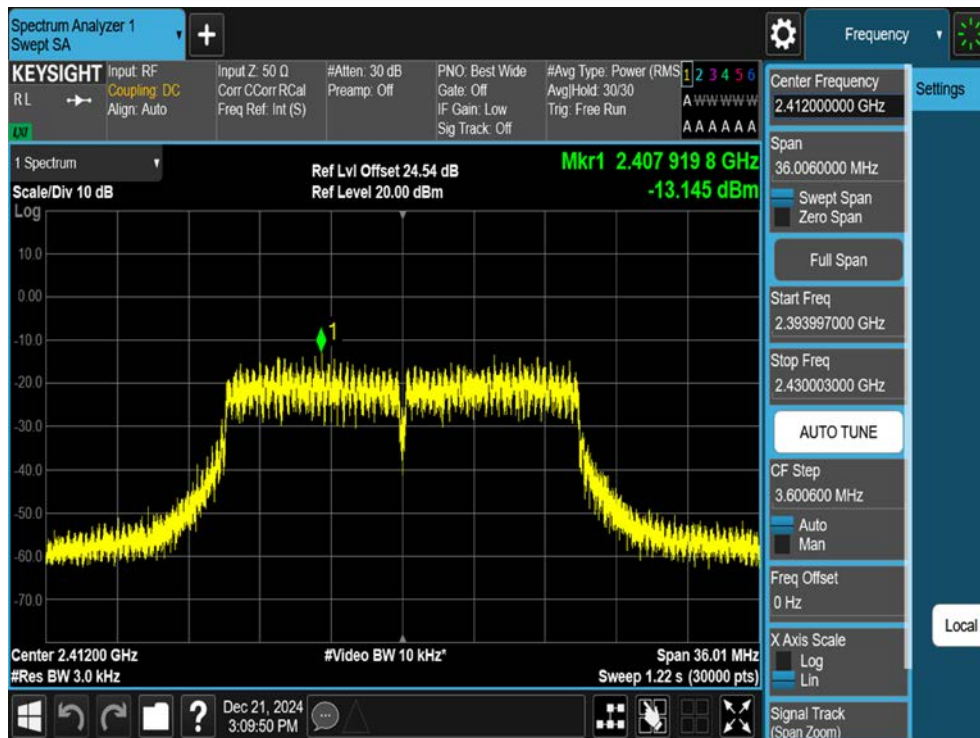
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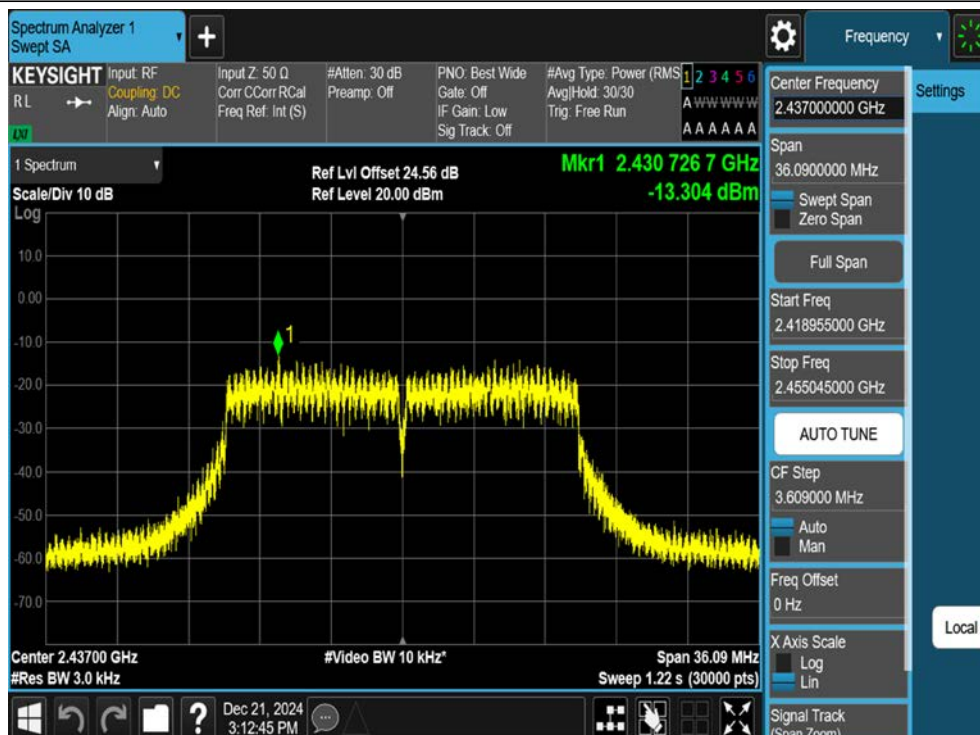
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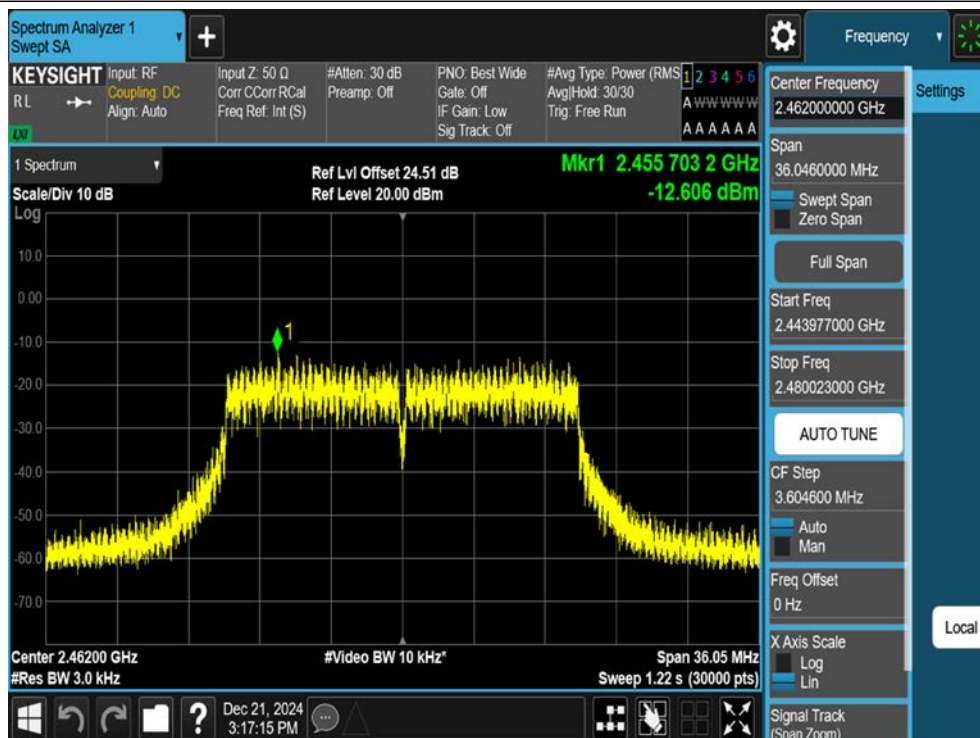
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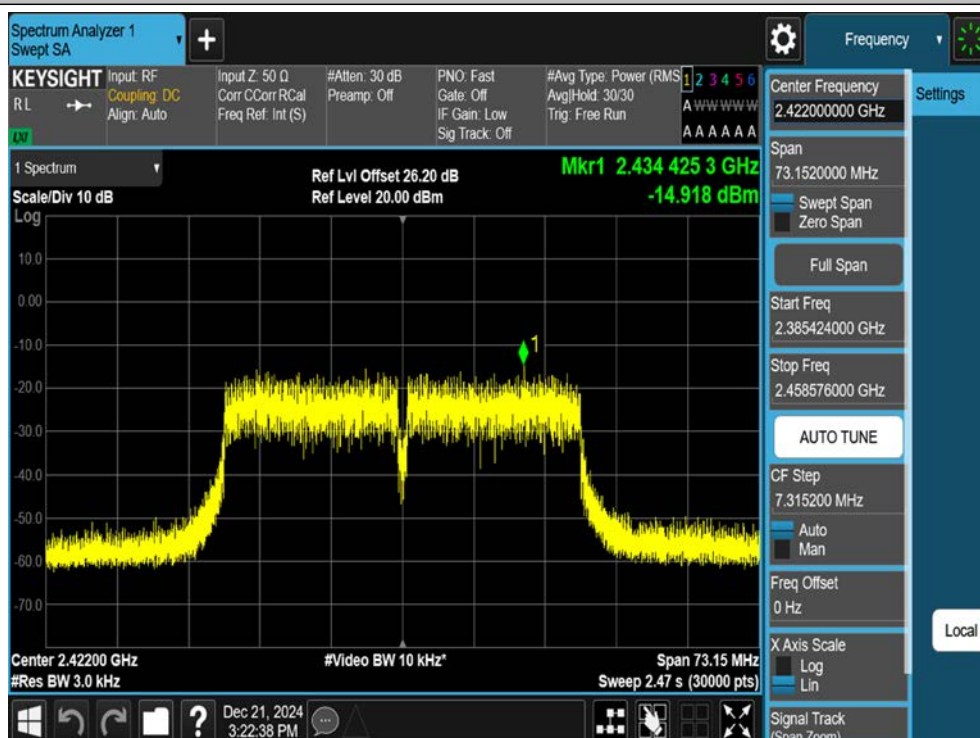
11N20SISO-Ant1-2412-PASS



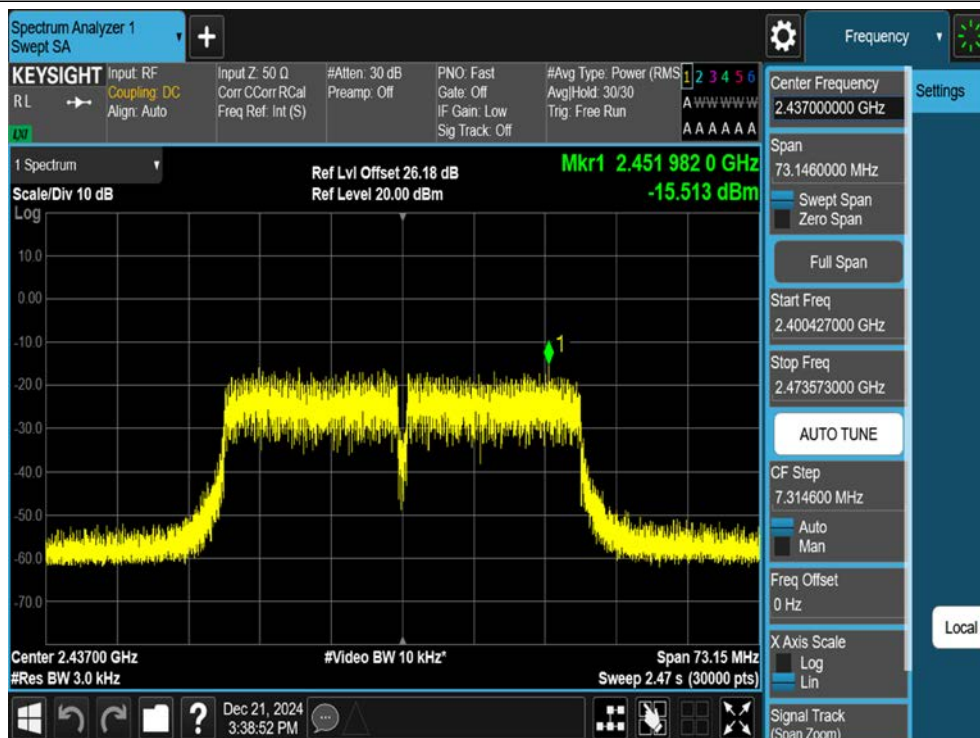
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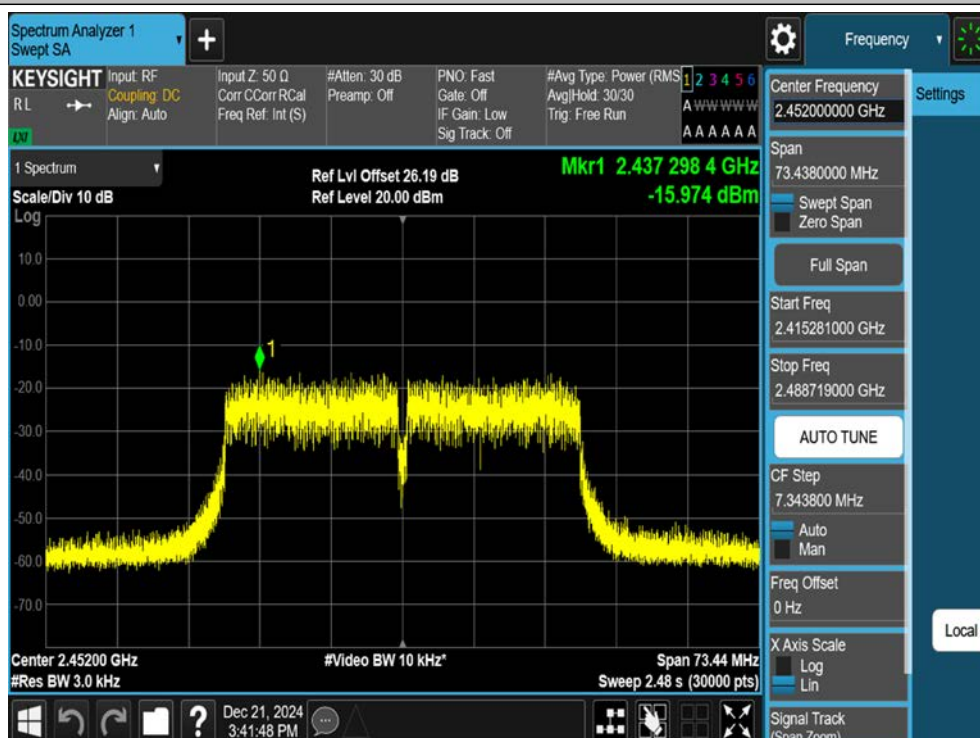
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technology Co., Ltd.

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End of Test Report