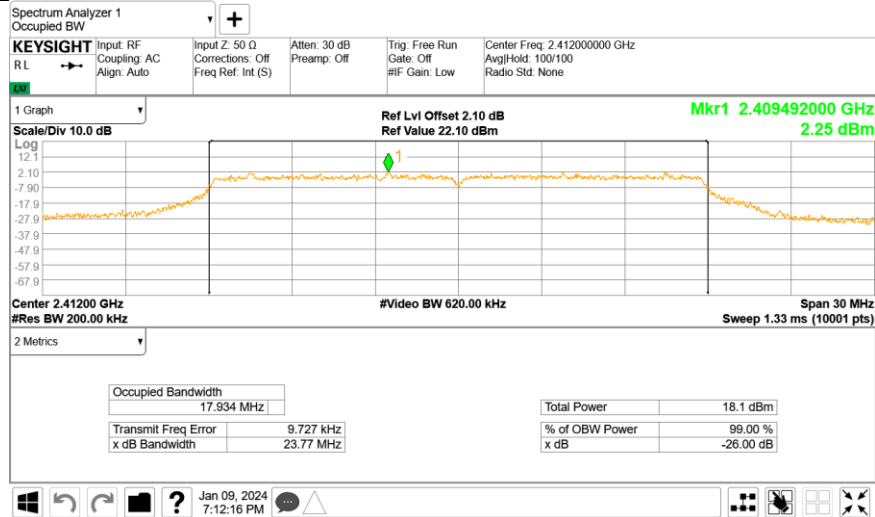




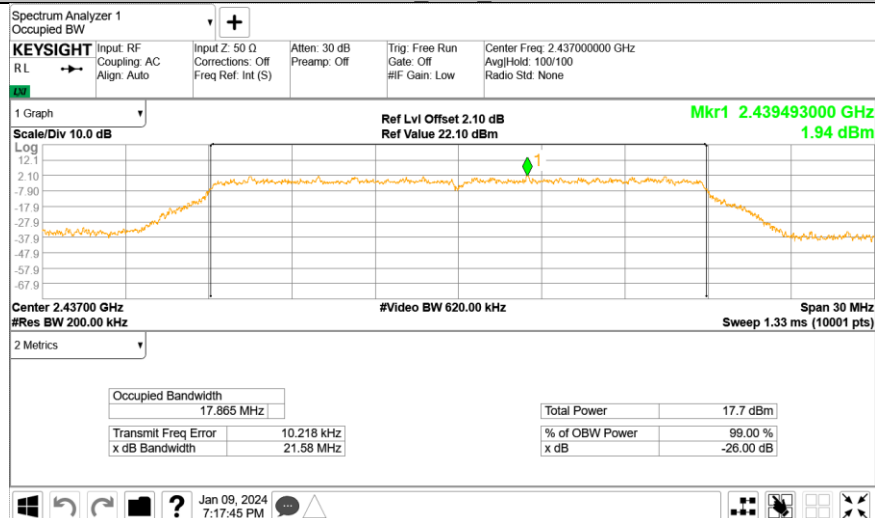




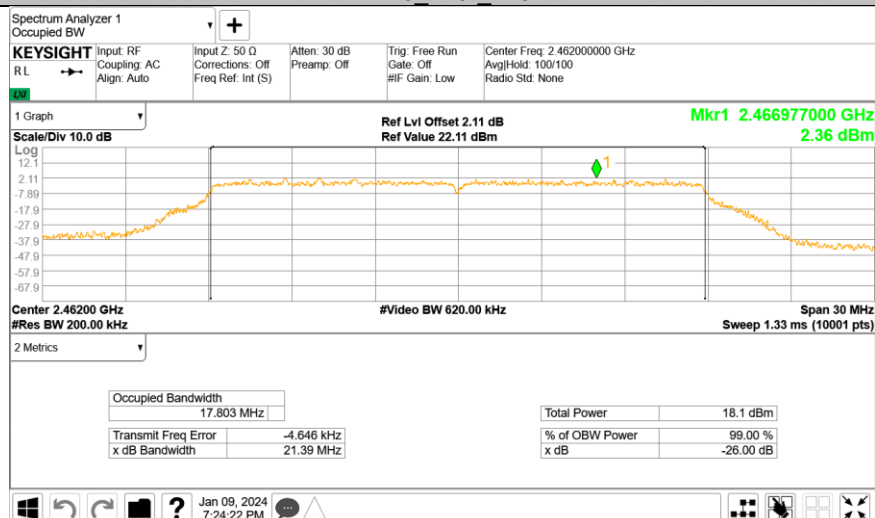
11N20_Ant2_2412



11N20_Ant2_2437



11N20_Ant2_2462



9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3KHz]
 ≤ 8

Test result
802.11 B

Frequency MHz	Power spectral density dBm/3kHz		Result
	Ant1	Ant2	
Low channel 2412MHz	-8.38	-7.07	Pass
Middle channel 2437MHz	-8.02	-8.93	Pass
High channel 2462MHz	-8.63	-8.4	Pass

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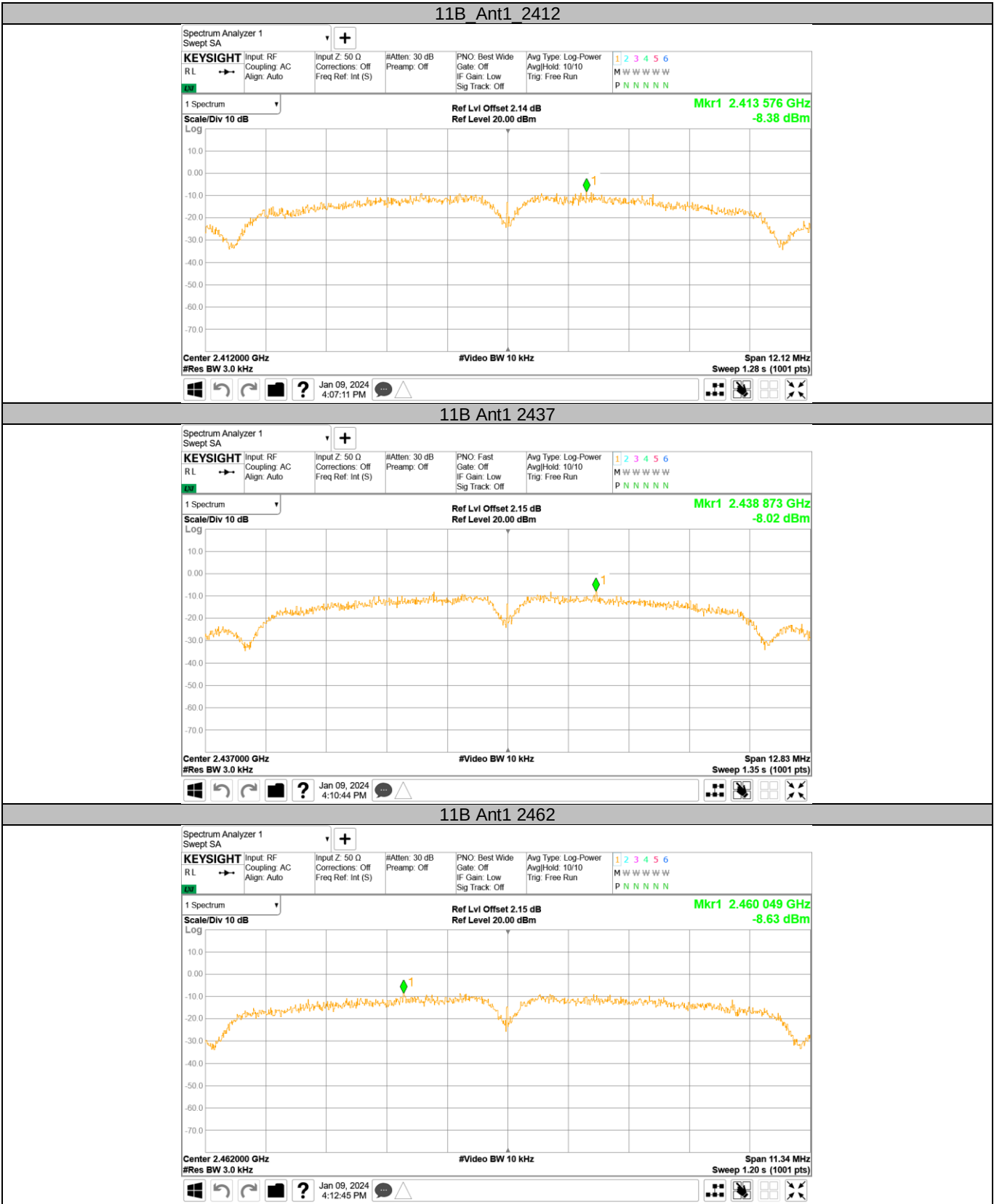
Frequency MHz	Power spectral density dBm/3kHz		Result
	Ant1	Ant2	
Low channel 2412MHz	-12.77	-11.82	Pass
Middle channel 2437MHz	-11.54	-12.4	Pass
High channel 2462MHz	-12.06	-12.35	Pass

802.11 N20

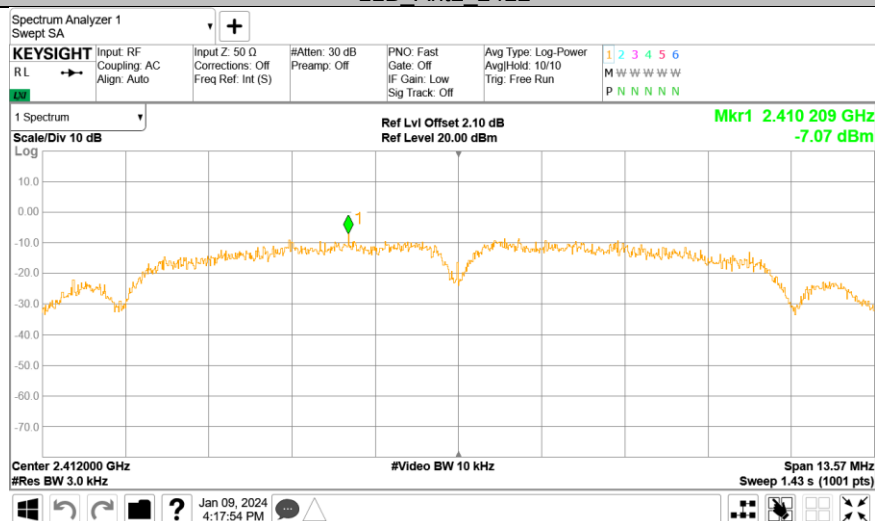
Frequency MHz	Power spectral density dBm/3kHz			Result
	Ant1	Ant2	Sum	
Low channel 2412MHz	-12.67	-11.78	-9.19	Pass
Middle channel 2437MHz	-12.61	-12.84	-9.71	Pass
High channel 2462MHz	-12.19	-12.67	-9.41	Pass



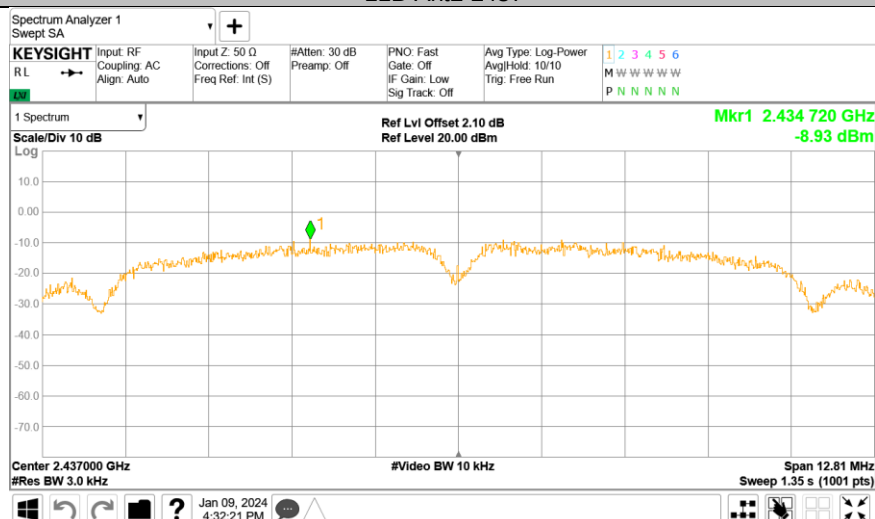
Power spectral density



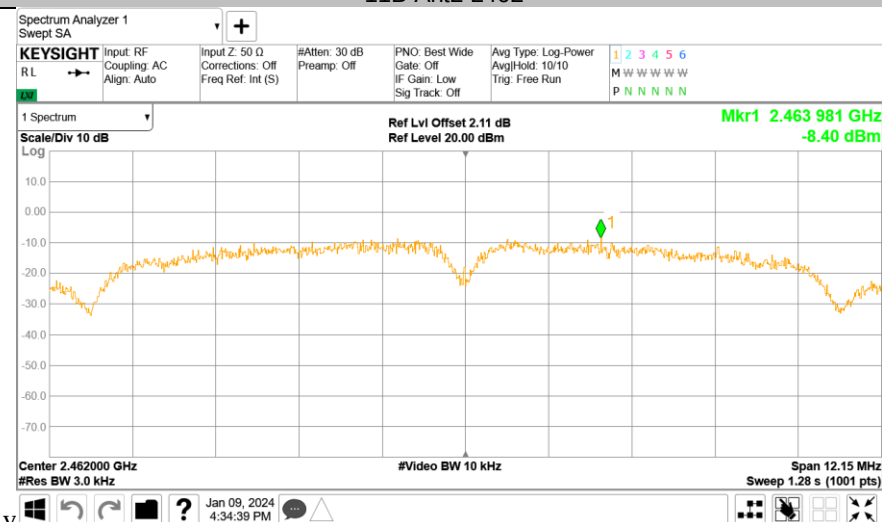
11B_Ant2_2412



11B_Ant2_2437

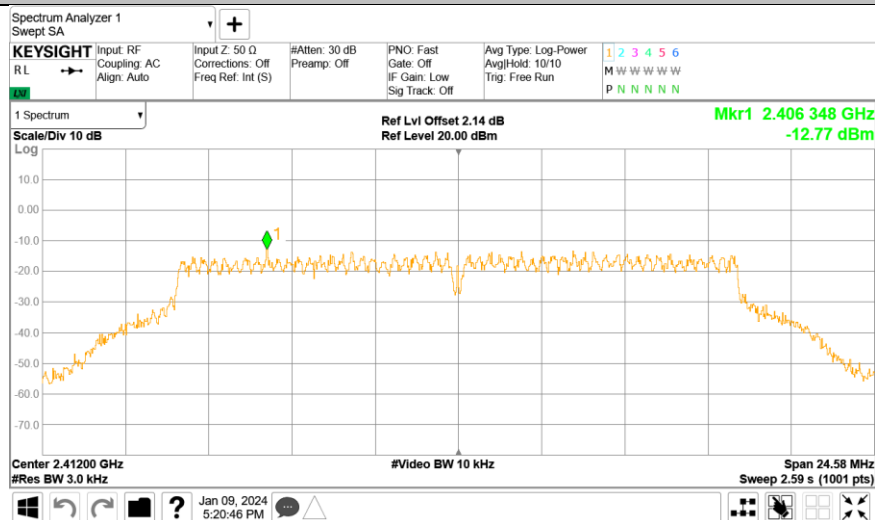


11B_Ant2_2462

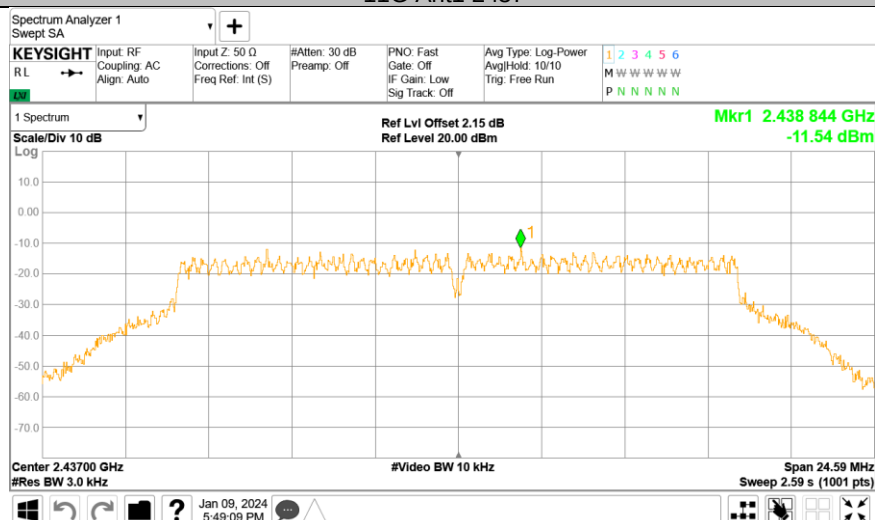




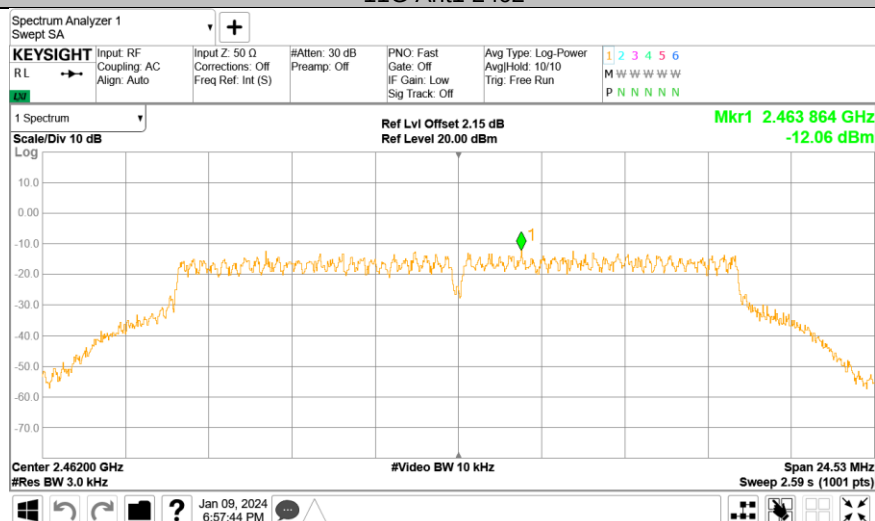
11G Ant1 2412



11G Ant1 2437

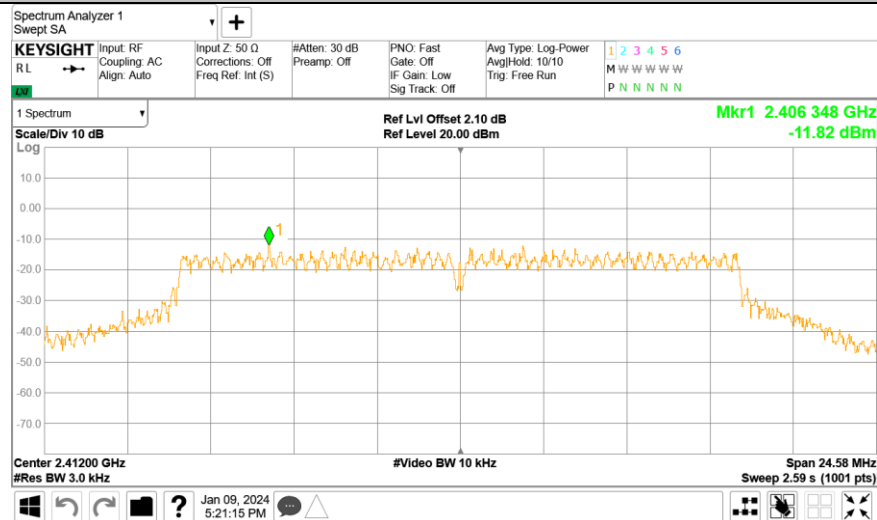


11G Ant1 2462

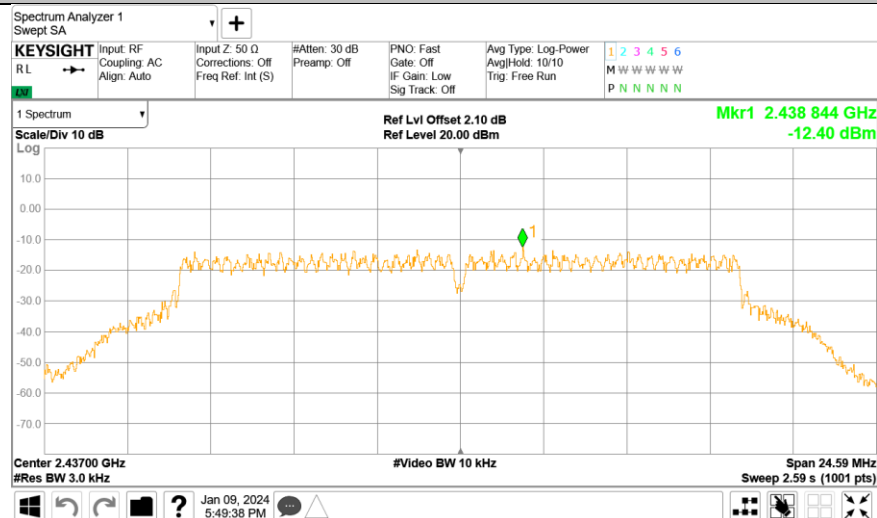




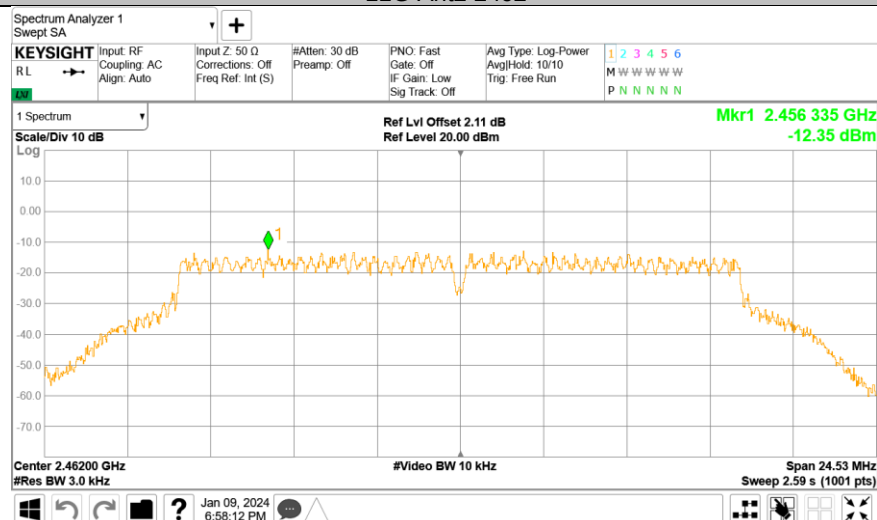
11G Ant2 2412



11G Ant2 2437

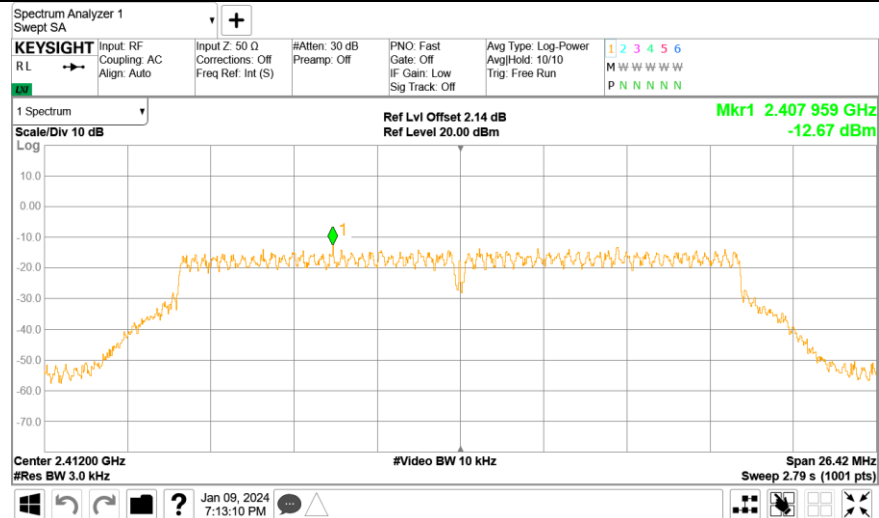


11G Ant2 2462

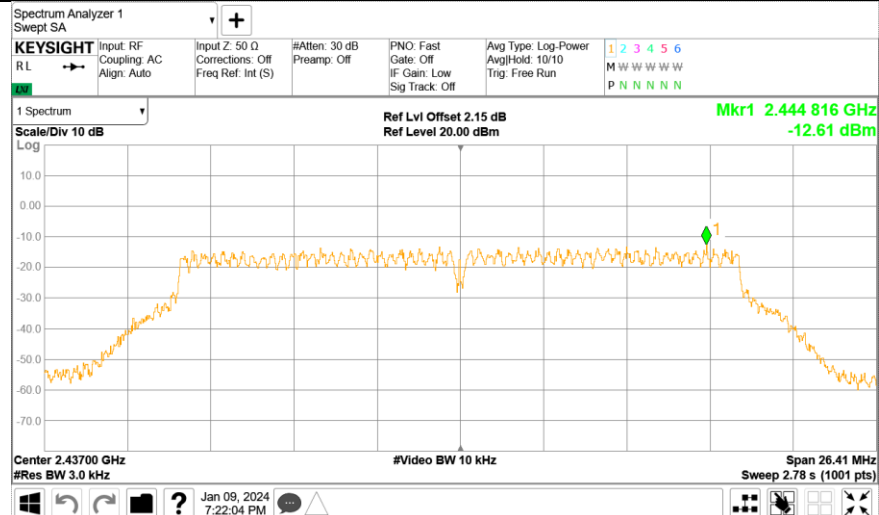




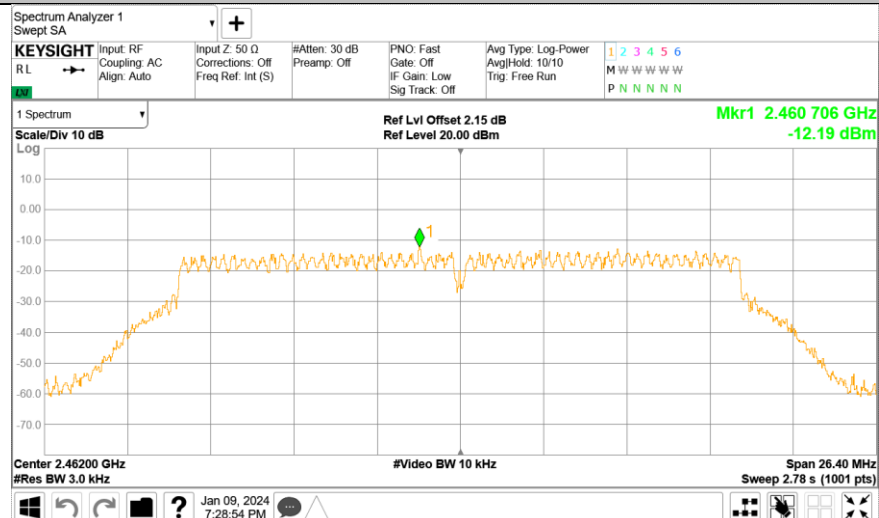
11N20 Ant1 2412



11N20 Ant1 2437

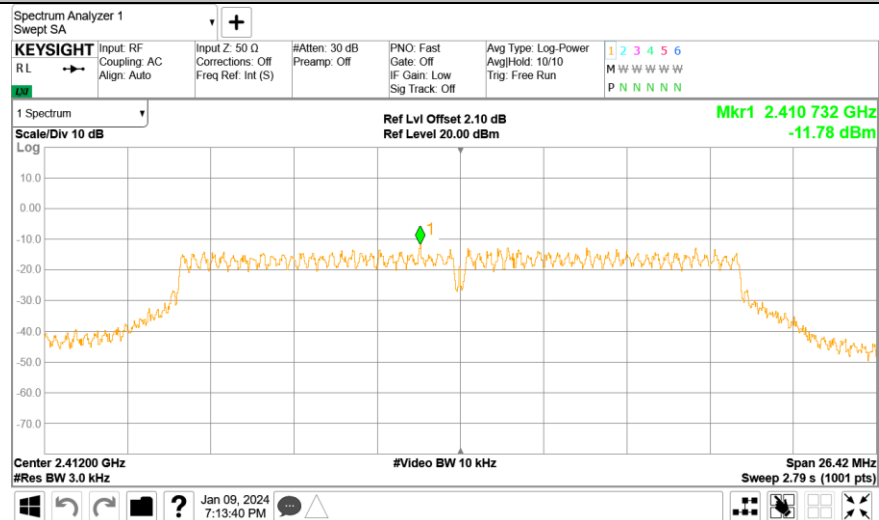


11N20 Ant1 2462

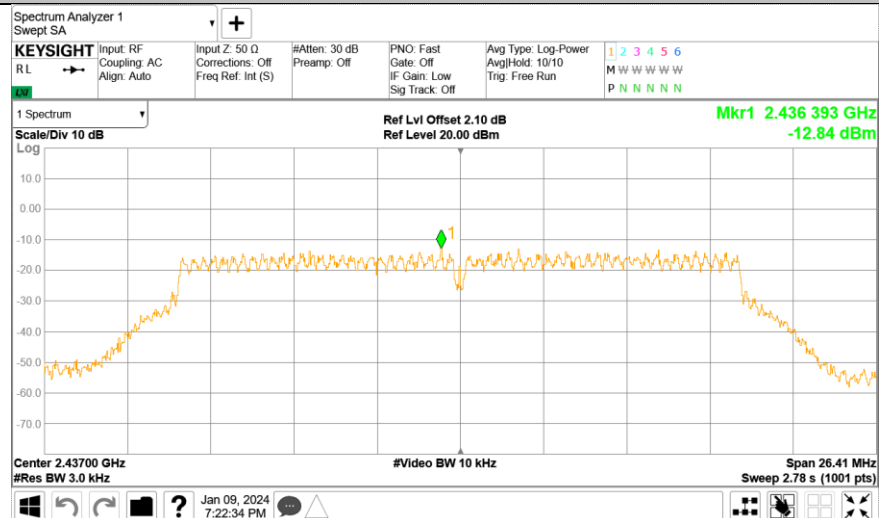




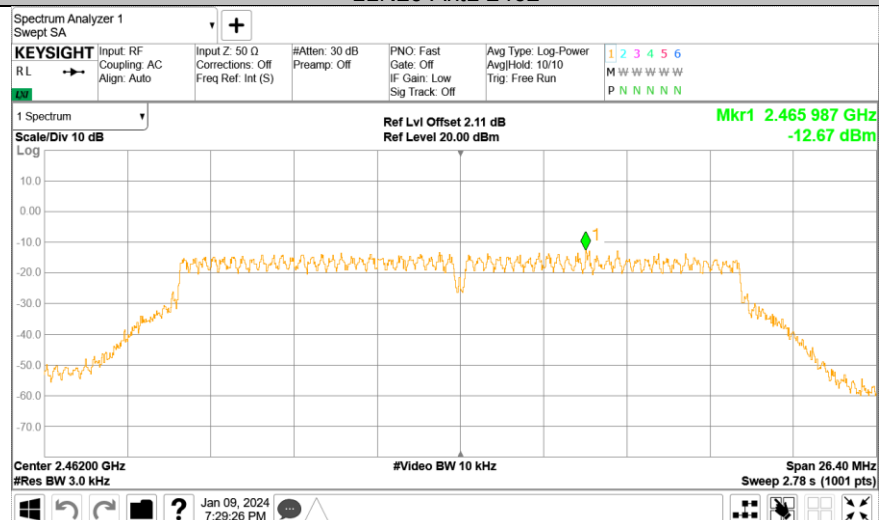
11N20 Ant2 2412



11N20 Ant1 2437



11N20 Ant1 2462





9.5 Spurious RF conducted emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



Spurious RF conducted emissions

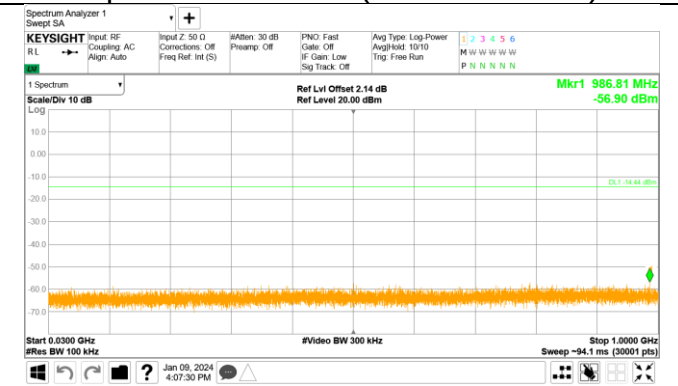
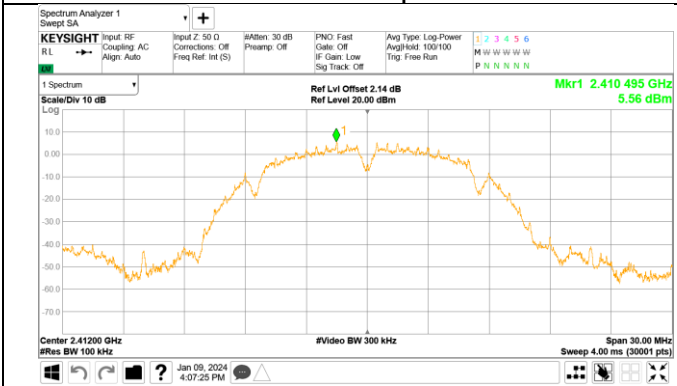
802.11 B Ant1

Out-of-Band Emissions

Channel 1 (2412MHz)

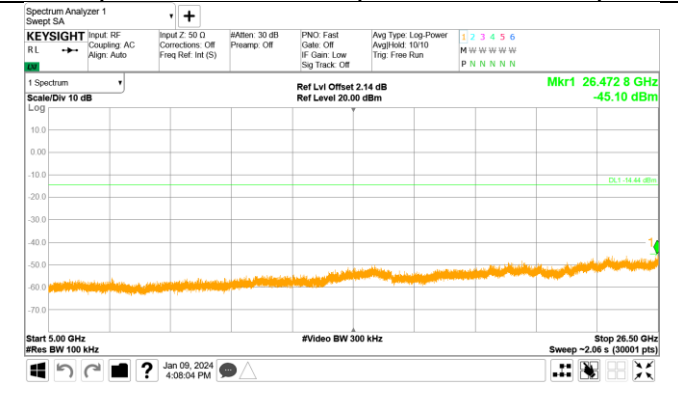
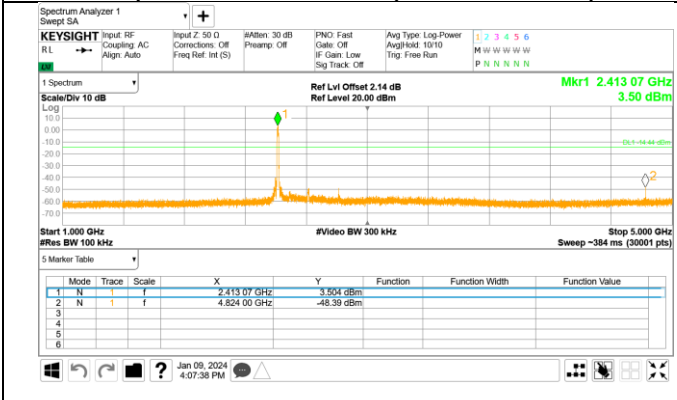
Reference point

Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)

Spurious Emission (5GHz –26.5GHz)

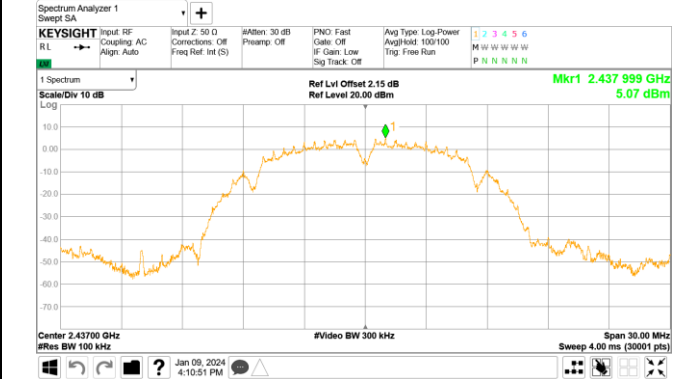


Note: The emission which exceed the limit is the fundamental.

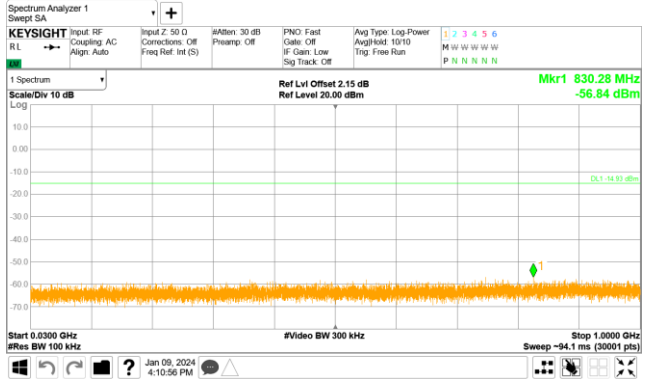


Out-of-Band Emissions
Channel 6 (2437MHz)

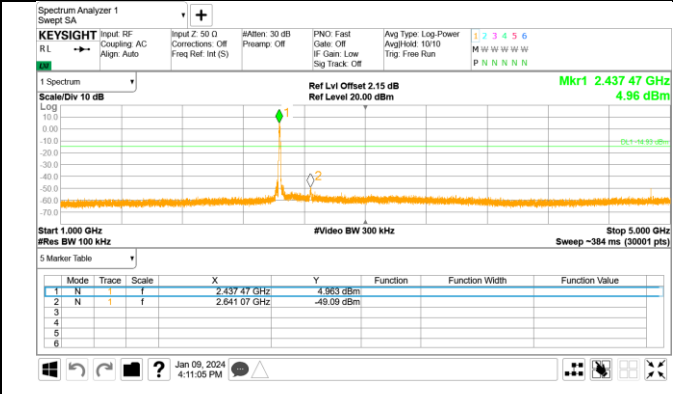
Reference point



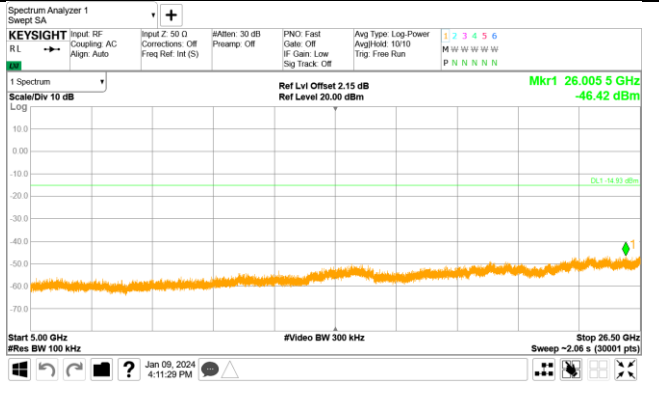
Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)



Spurious Emission (5GHz –26.5GHz)

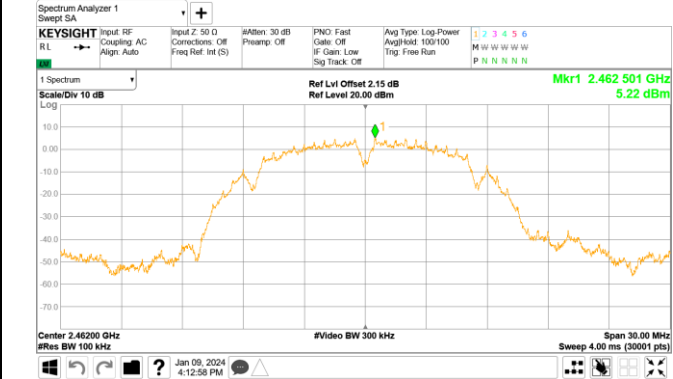


Note: The emission which exceed the limit is the fundamental.

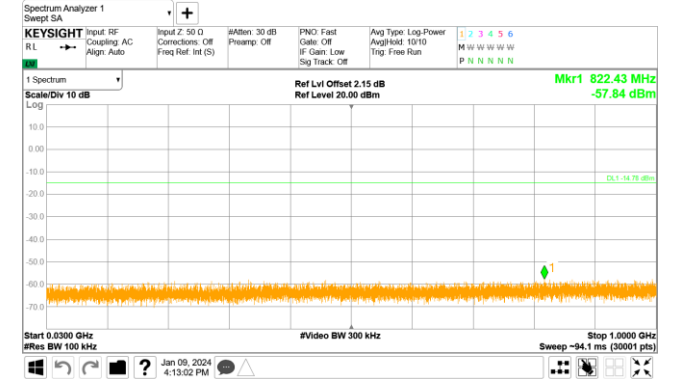


Out-of-Band Emissions
Channel 11 (2462MHz)

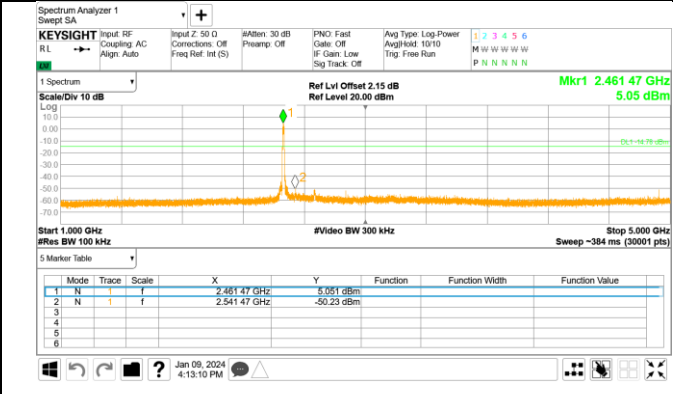
Reference point



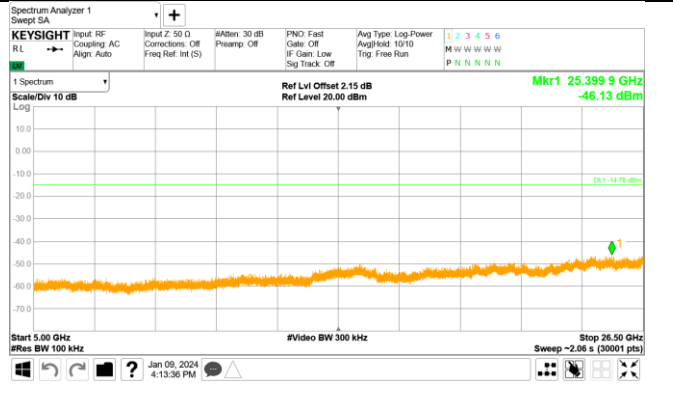
Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)



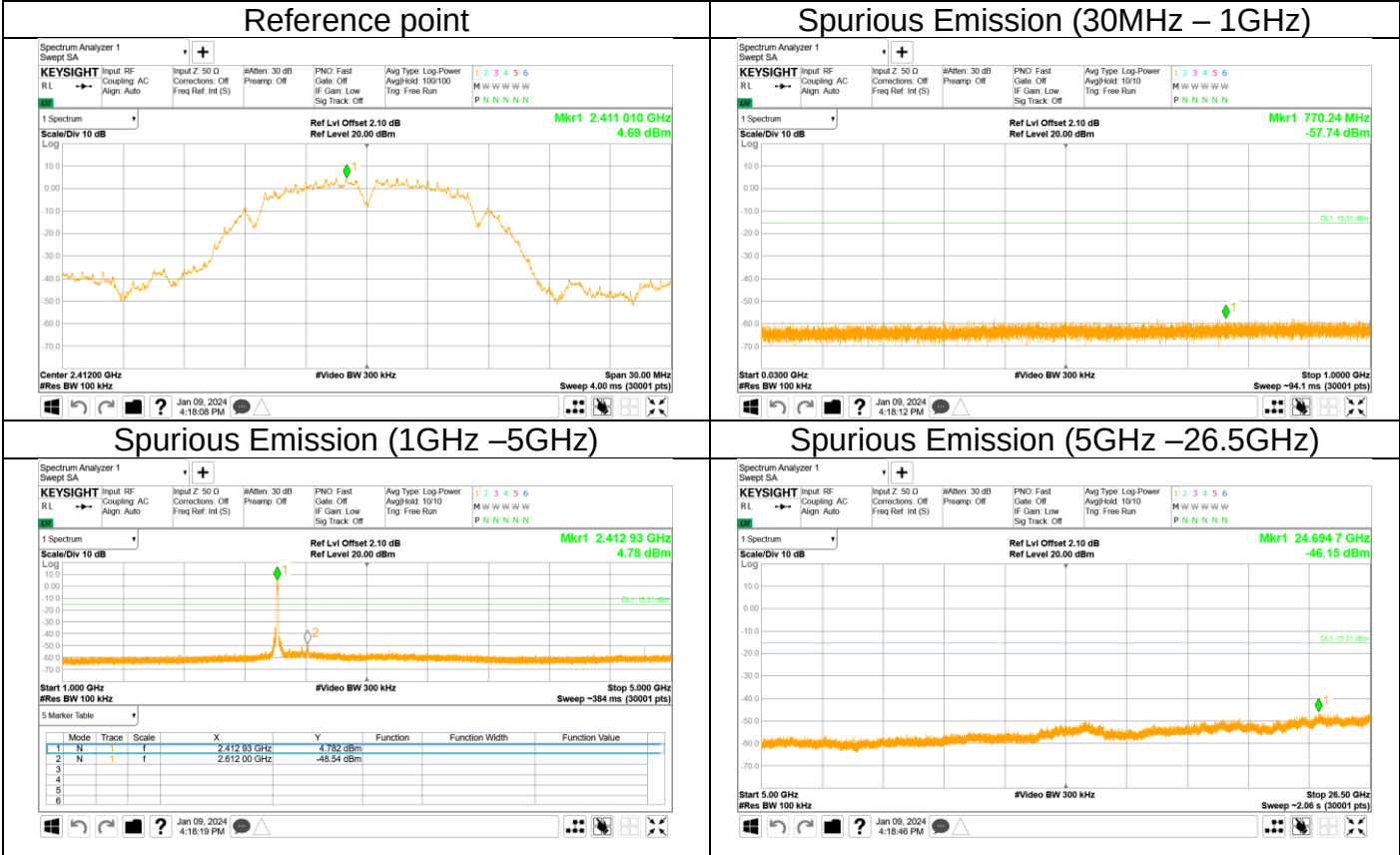
Spurious Emission (5GHz –26.5GHz)



Note: The emission which exceed the limit is the fundamental.



802.11 B Ant2
Out-of-Band Emissions
Channel 1 (2412MHz)

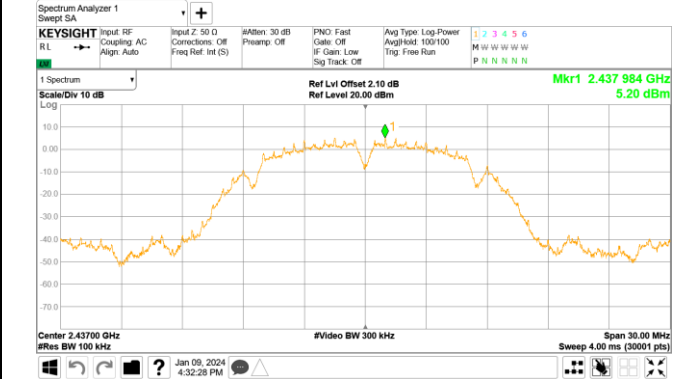


Note: The emission which exceed the limit is the fundamental.

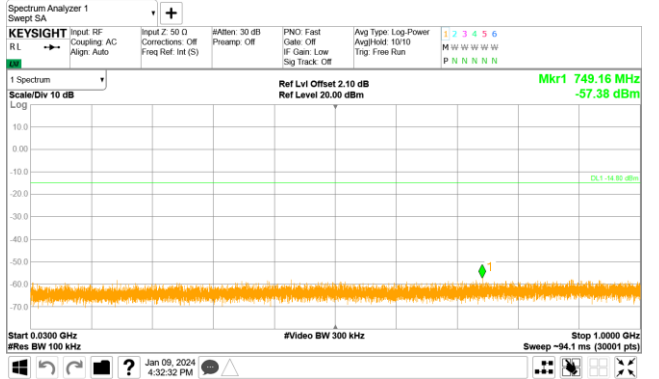


Out-of-Band Emissions
Channel 6 (2437MHz)

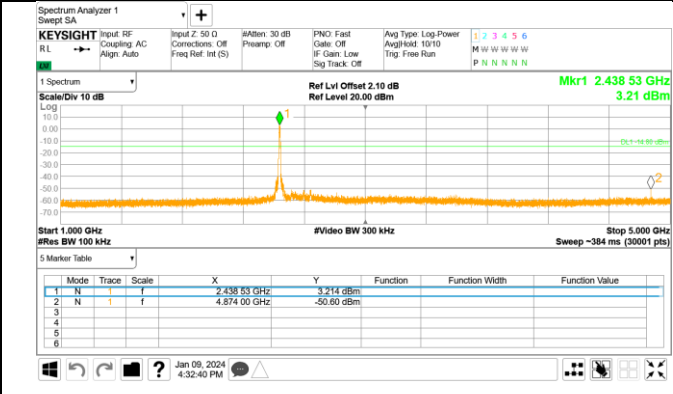
Reference point



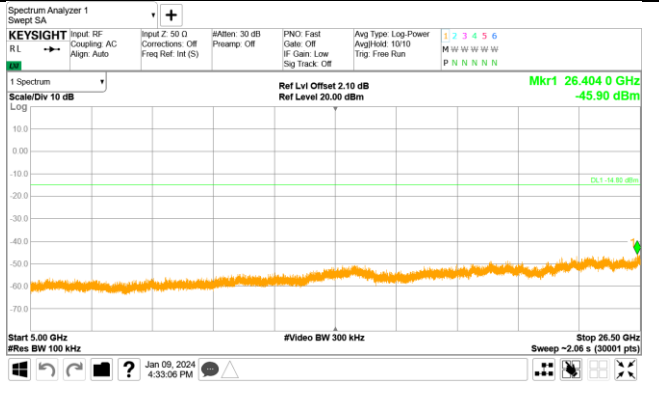
Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)



Spurious Emission (5GHz –26.5GHz)

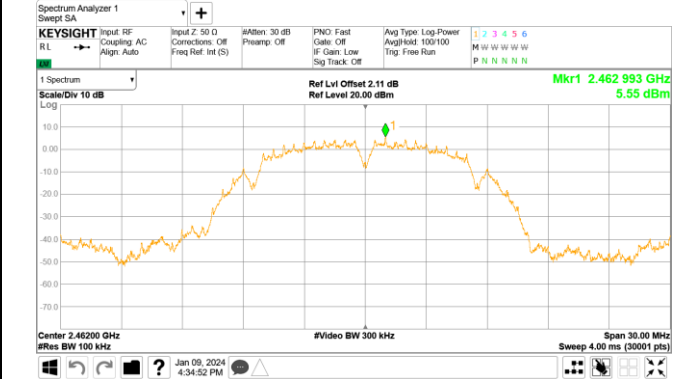


Note: The emission which exceed the limit is the fundamental.

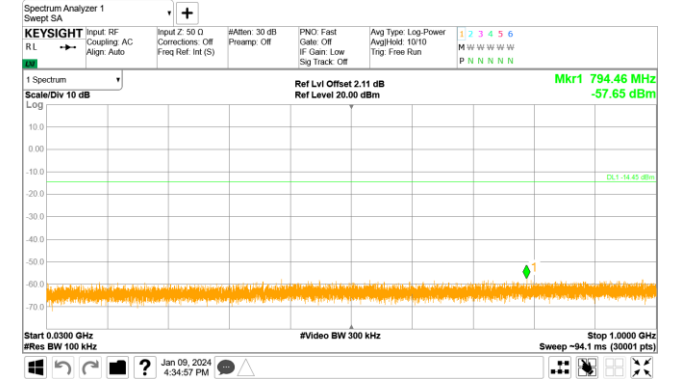


Out-of-Band Emissions
Channel 11 (2462MHz)

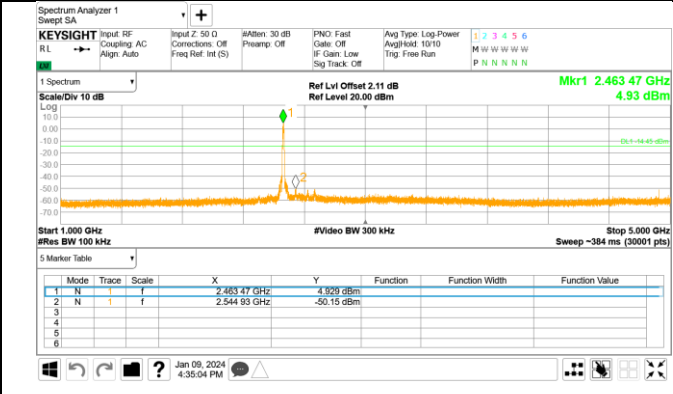
Reference point



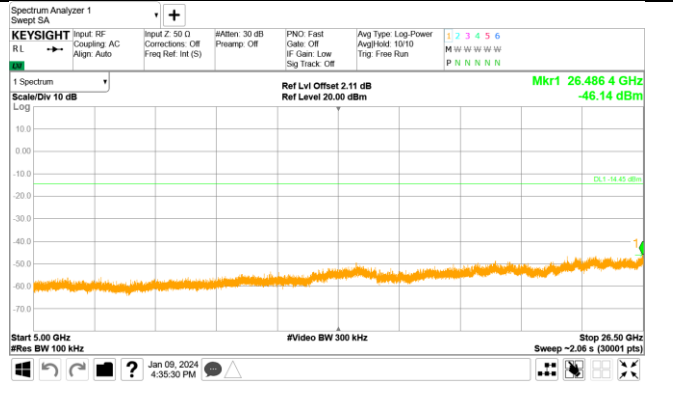
Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)



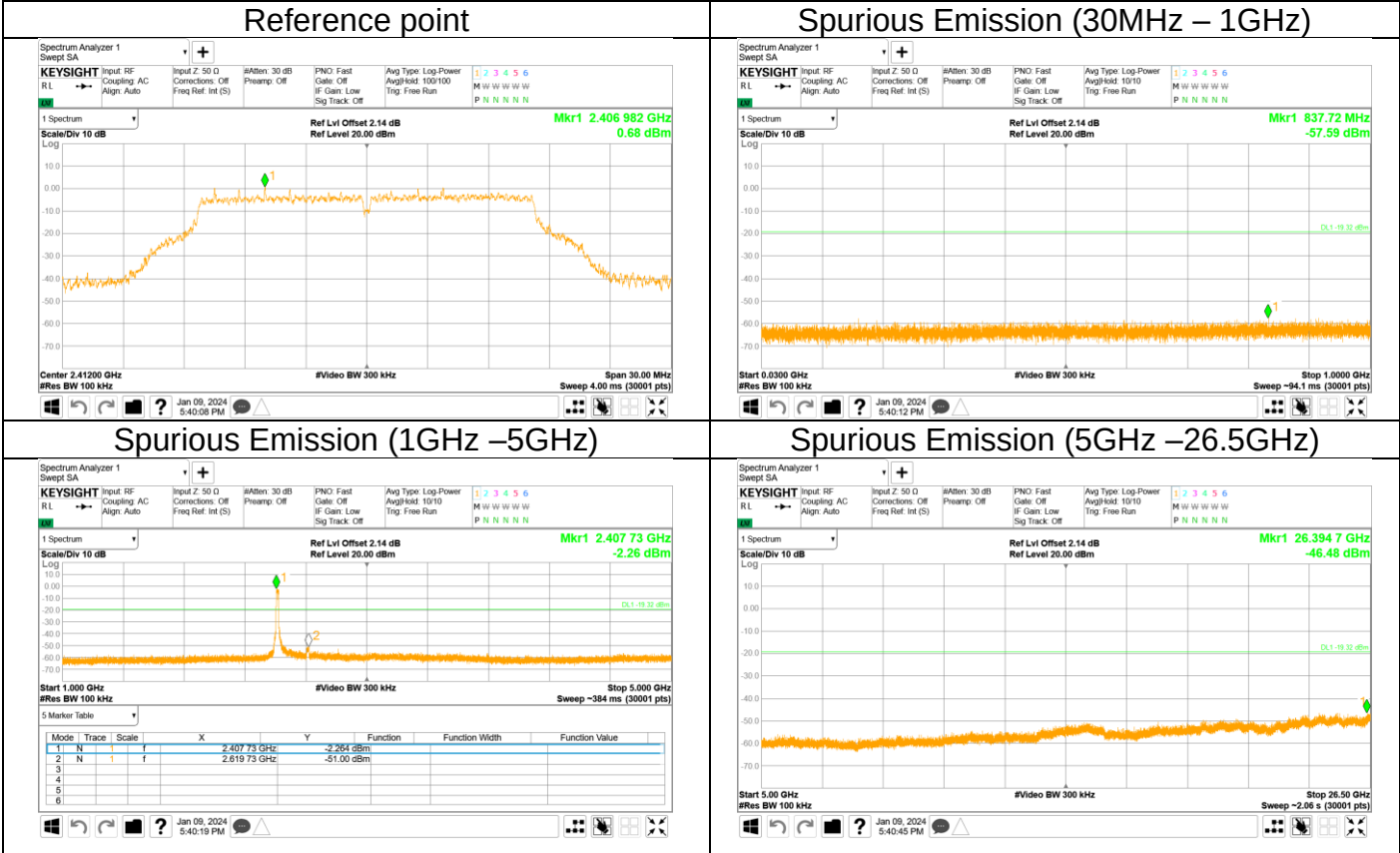
Spurious Emission (5GHz –26.5GHz)



Note: The emission which exceed the limit is the fundamental.



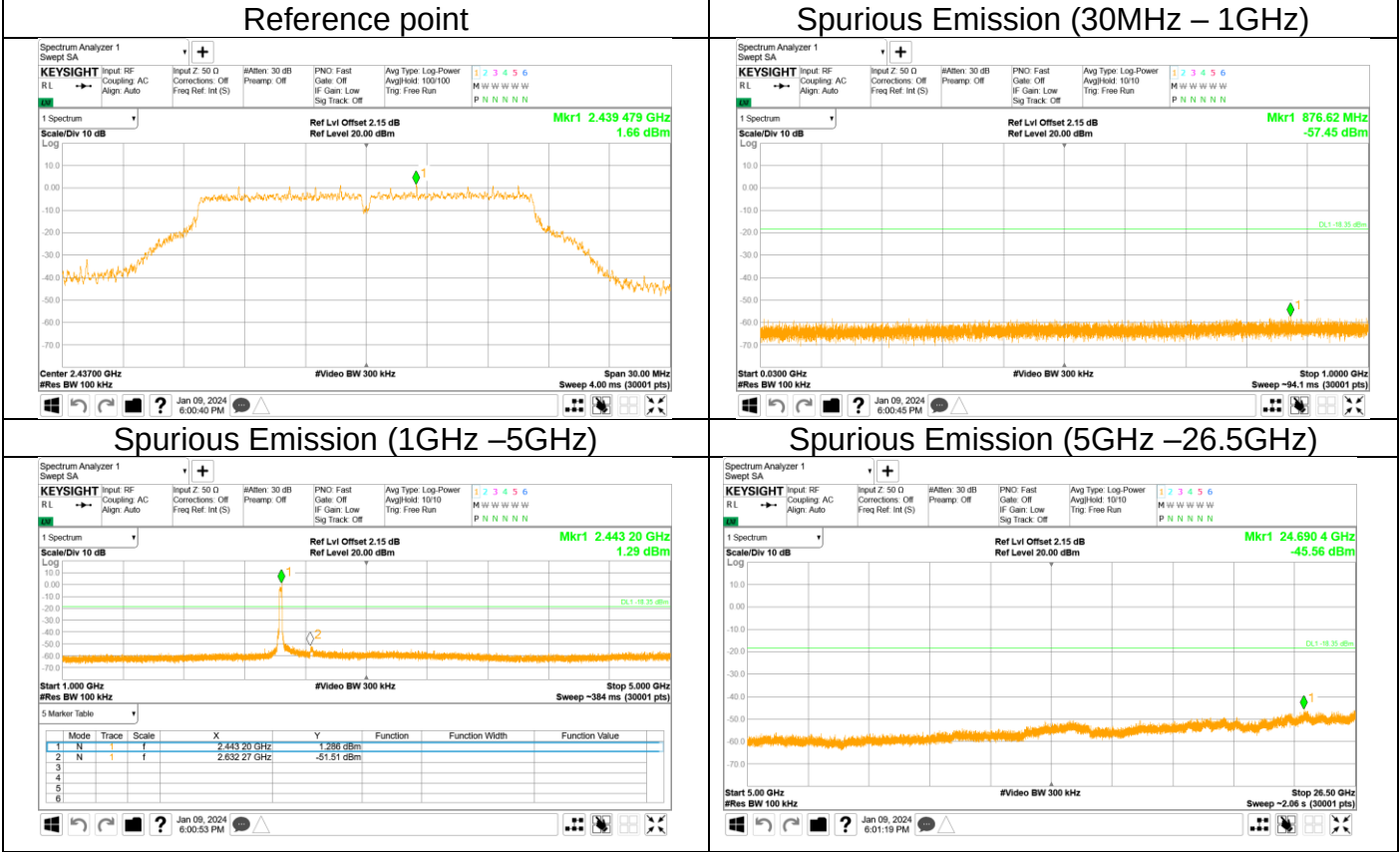
802.11 G Ant1
Out-of-Band Emissions
Channel 1 (2412MHz)



Note: The emission which exceed the limit is the fundamental.



Out-of-Band Emissions
Channel 6 (2437MHz)

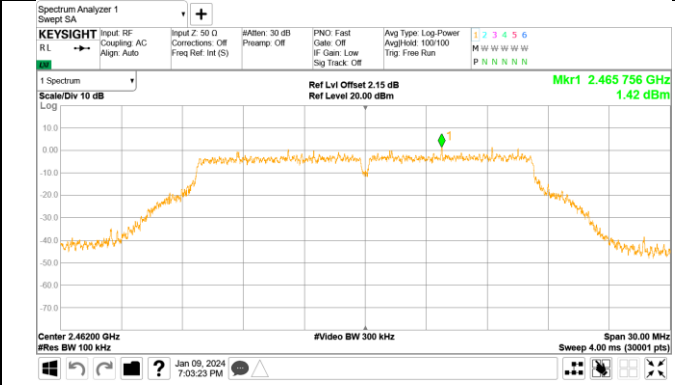


Note: The emission which exceed the limit is the fundamental.

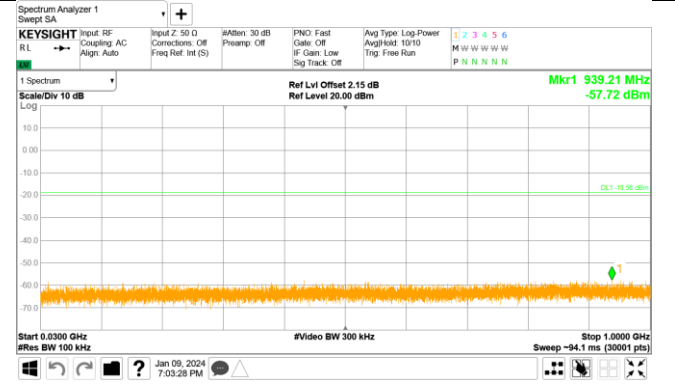


Out-of-Band Emissions
Channel 11 (2462MHz)

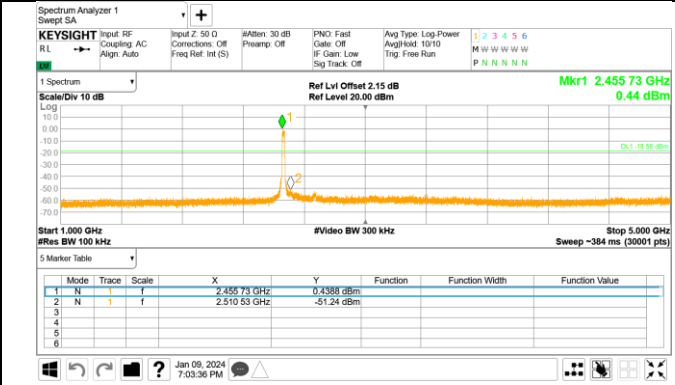
Reference point



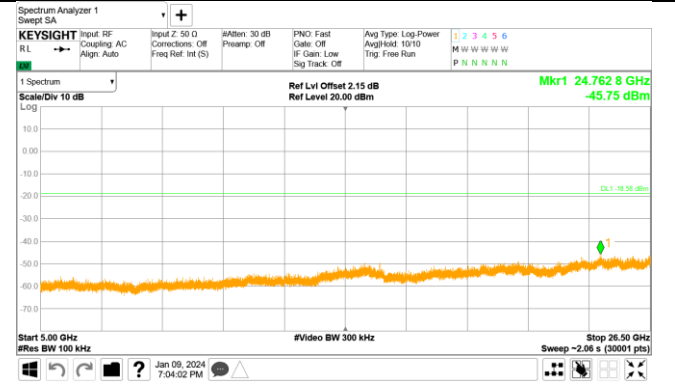
Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)



Spurious Emission (5GHz –26.5GHz)



Note: The emission which exceed the limit is the fundamental.

Out-of-Band Emissions

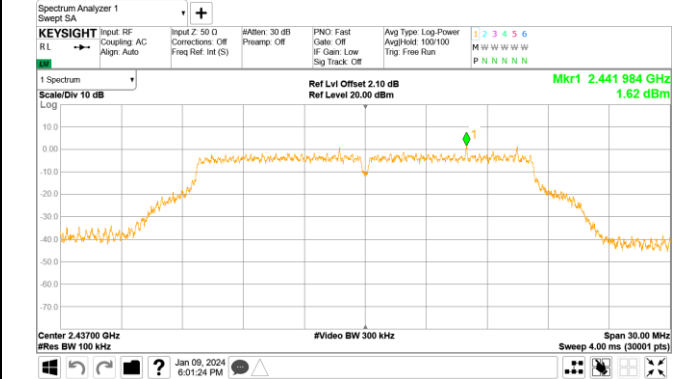
Channel 1 (2412MHz)



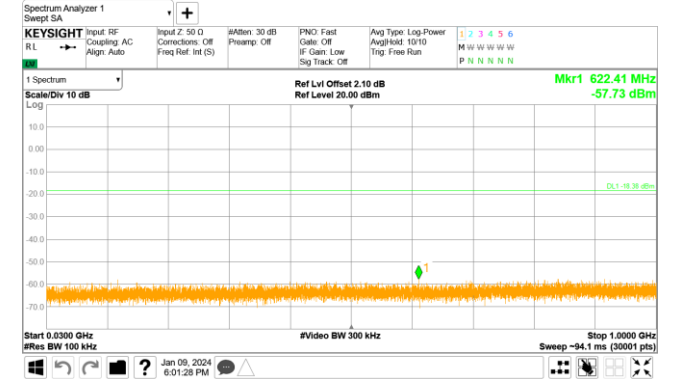


Out-of-Band Emissions
Channel 6 (2437MHz)

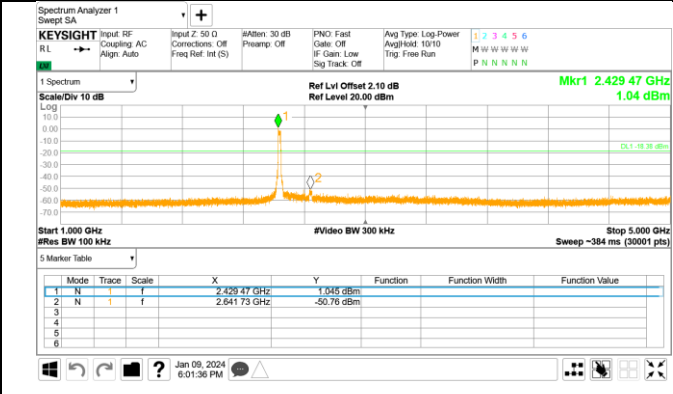
Reference point



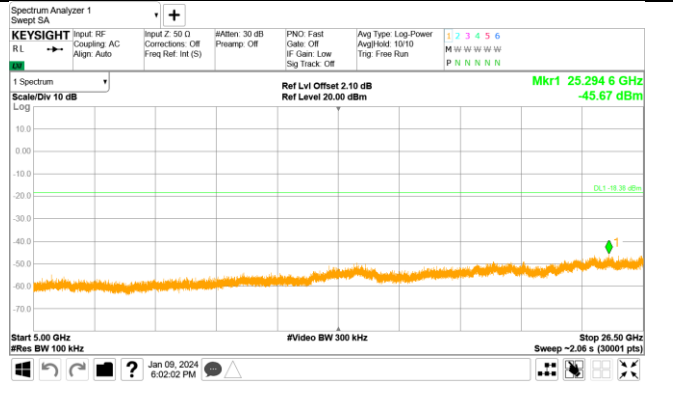
Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)

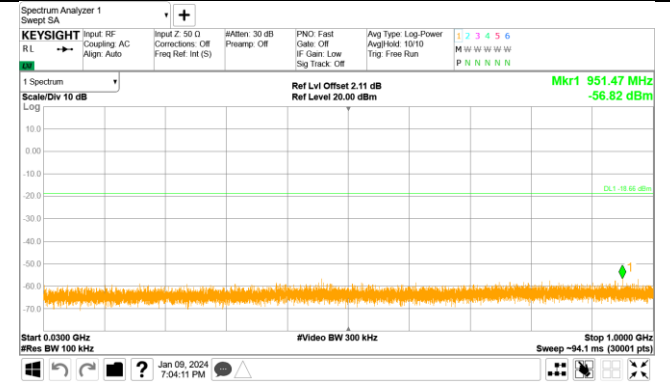


Spurious Emission (5GHz –26.5GHz)

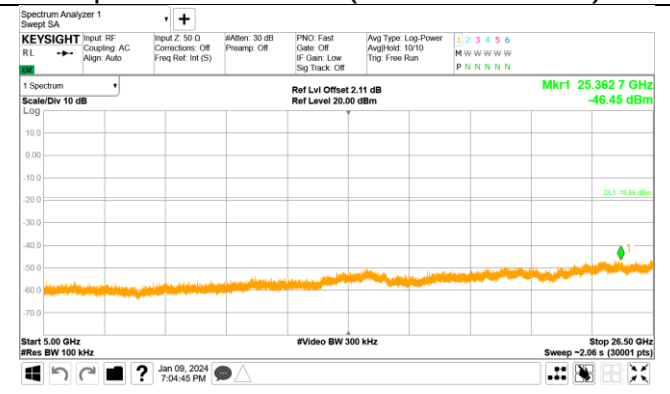


Note: The emission which exceed the limit is the fundamental.

Spurious Emission (30MHz – 1GHz)



Spurious Emission (5GHz –26.5GHz)

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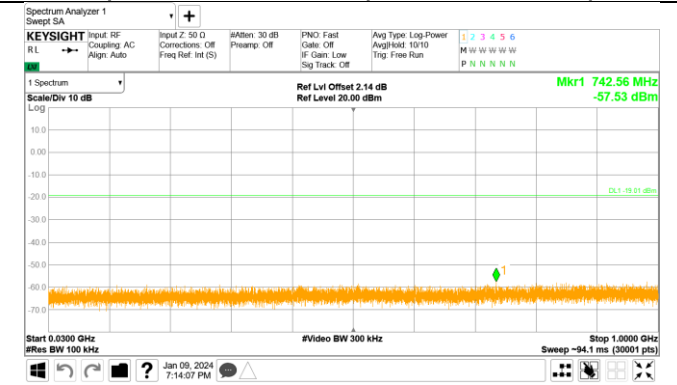
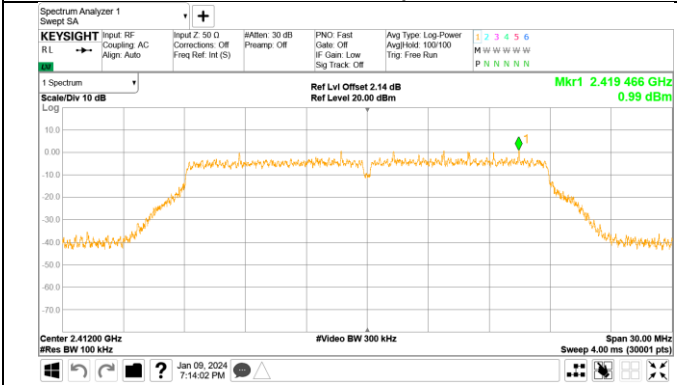
802.11 N20 Ant1

Out-of-Band Emissions

Channel 1 (2412MHz)

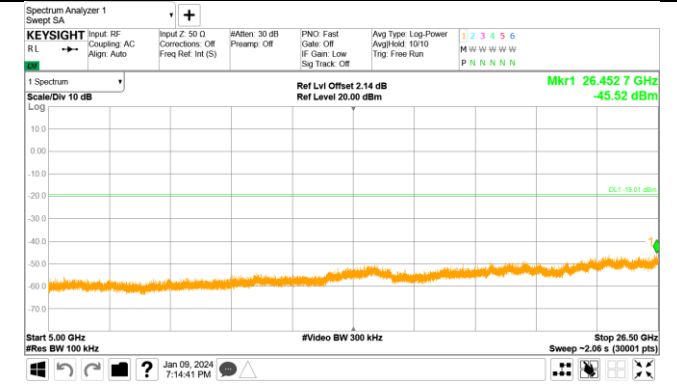
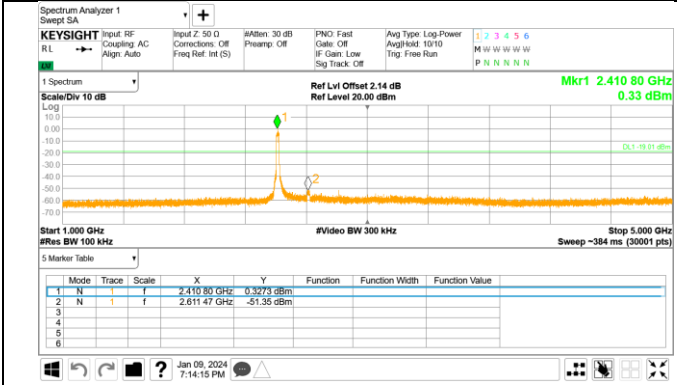
Reference point

Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)

Spurious Emission (5GHz –26.5GHz)

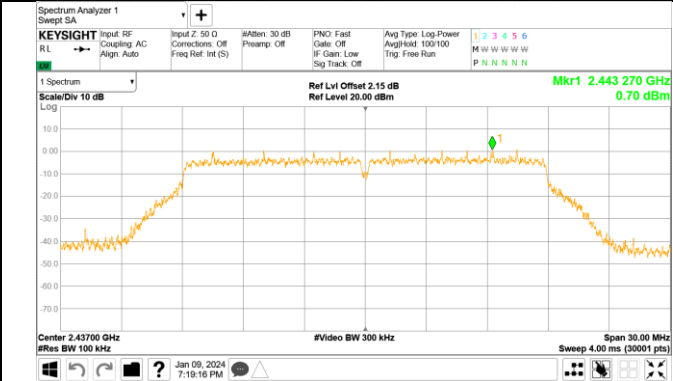


Note: The emission which exceed the limit is the fundamental.

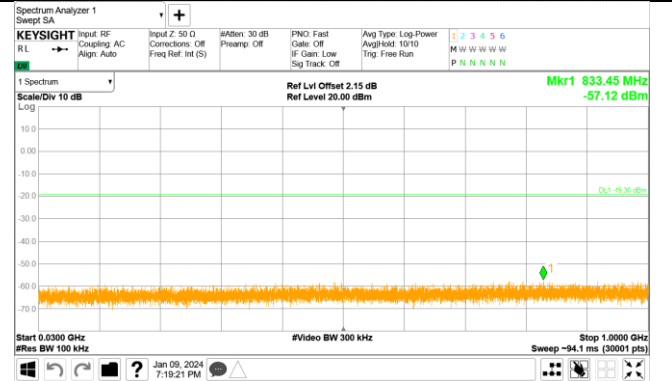


Out-of-Band Emissions
Channel 6 (2437MHz)

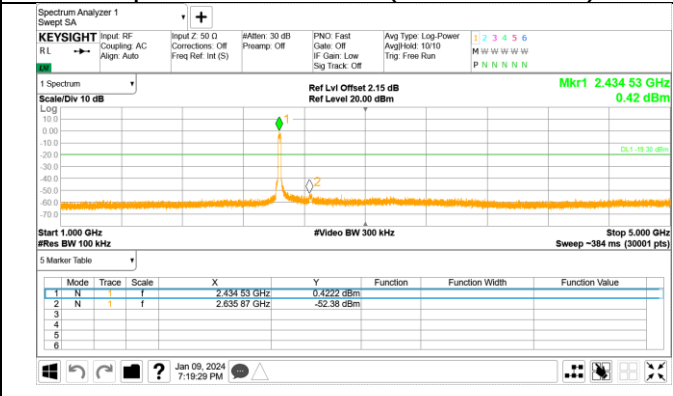
Reference point



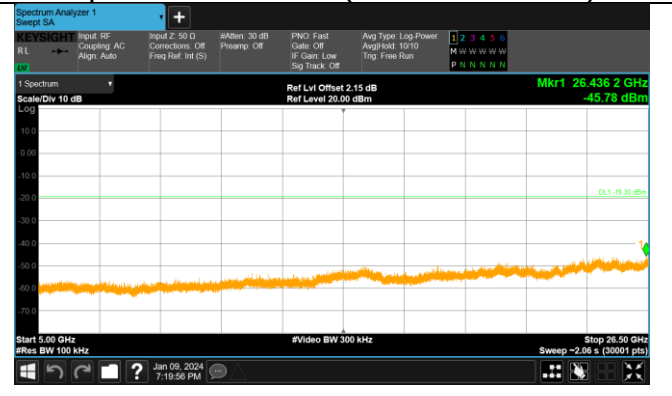
Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)



Spurious Emission (5GHz –26.5GHz)



Note: The emission which exceed the limit is the fundamental.