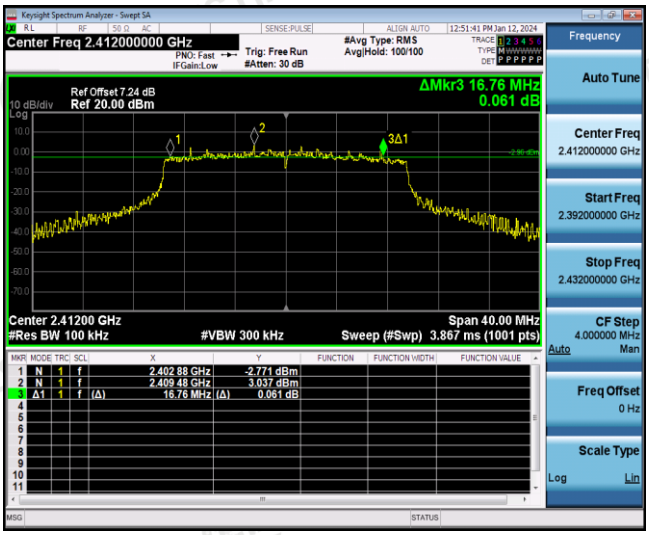
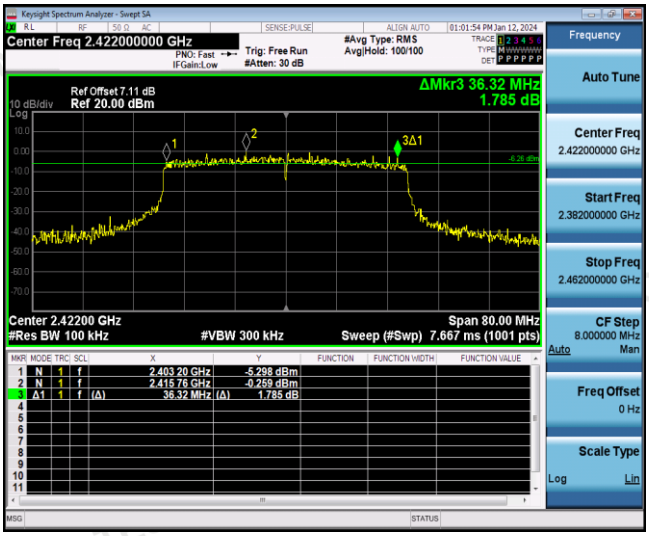
802.11ax(HT20)

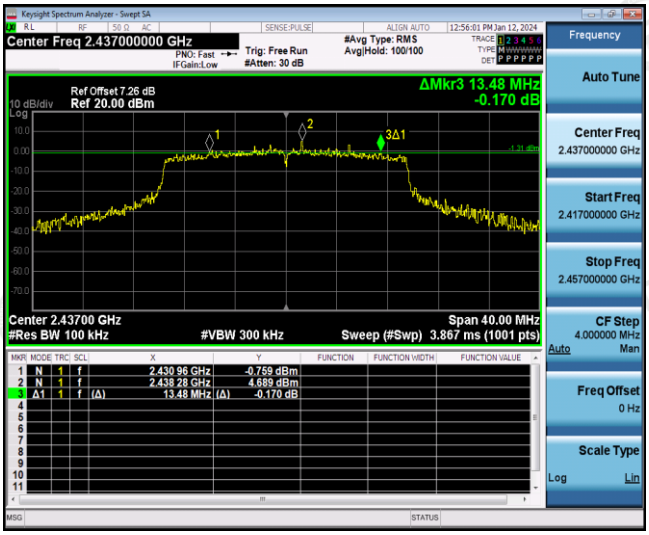


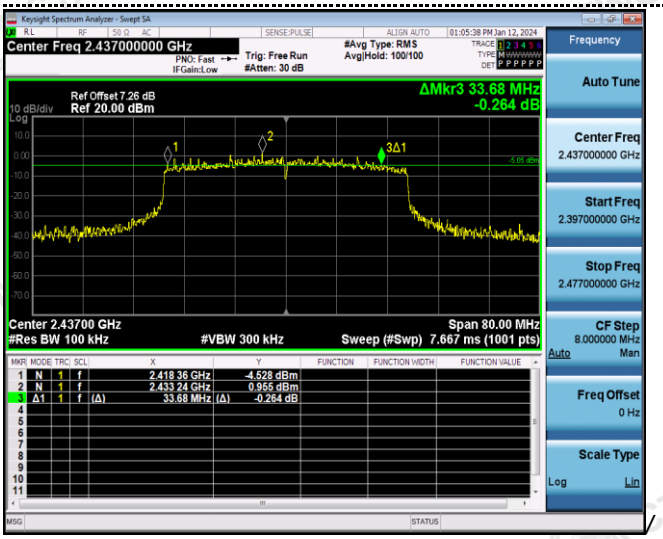
802.11ax(HT40)



CH01

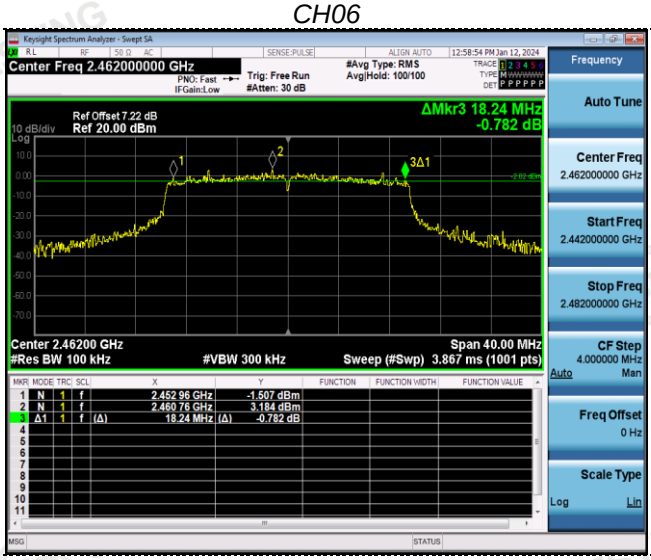
CH03

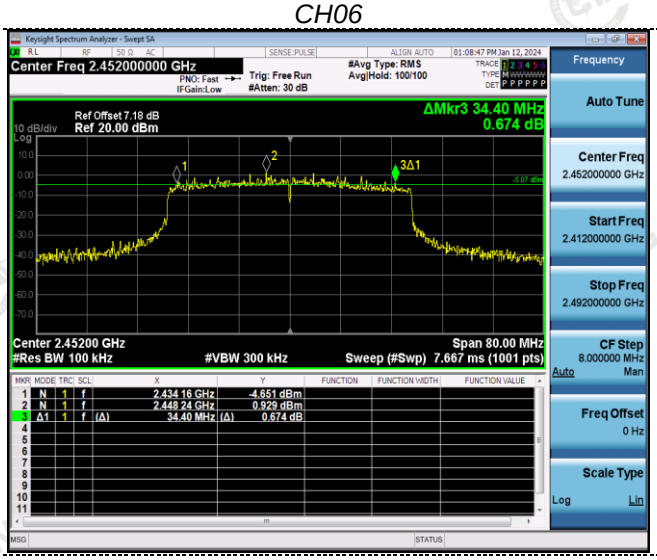




CH06

CH06





CH11

CH09

4.6 Out-of-band Emissions

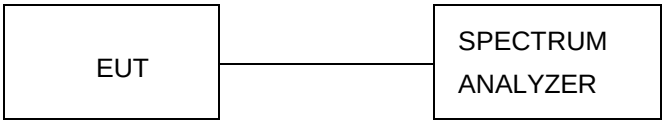
Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector , and max hold. Measurements utilizing these setting are made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration



Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data. And record the worst data in the report.

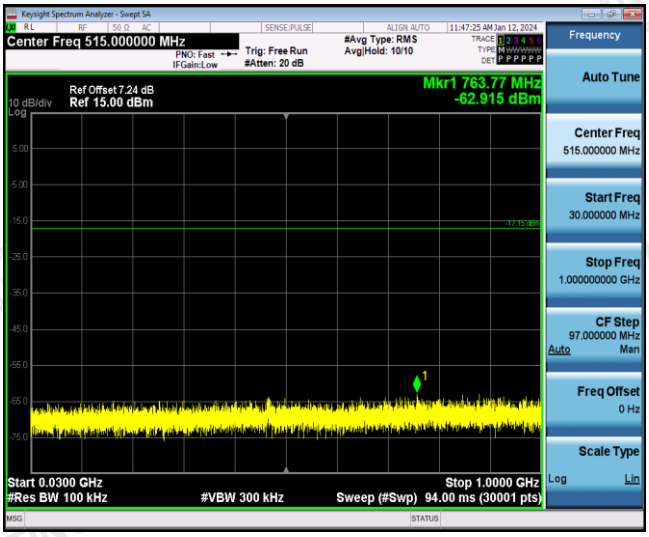
Test plot as follows:

802.11b

Reference

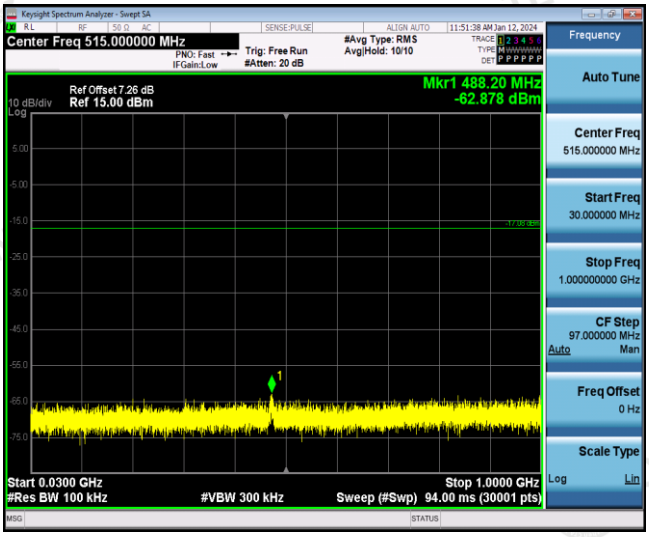
Reference

CH01

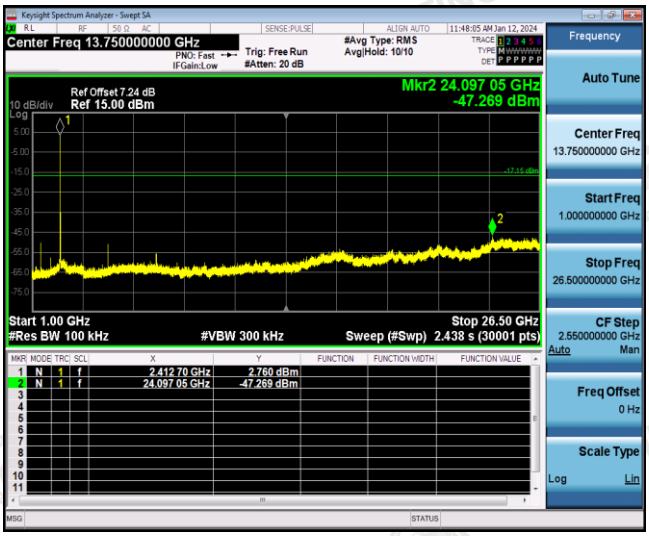


30MHz-1GHz

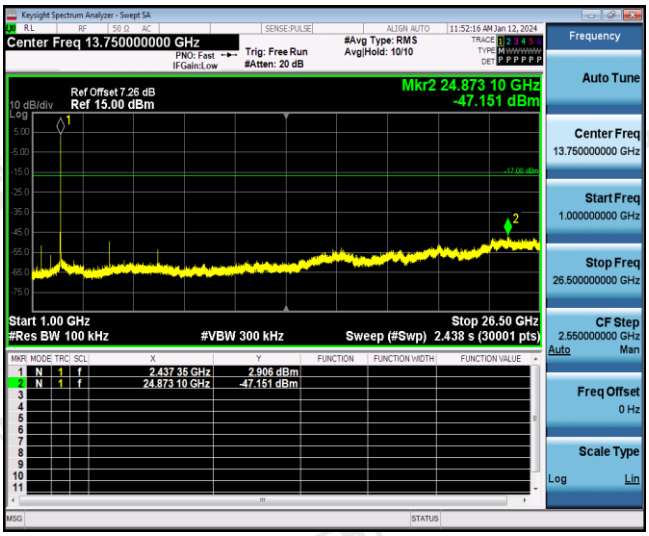
CH06



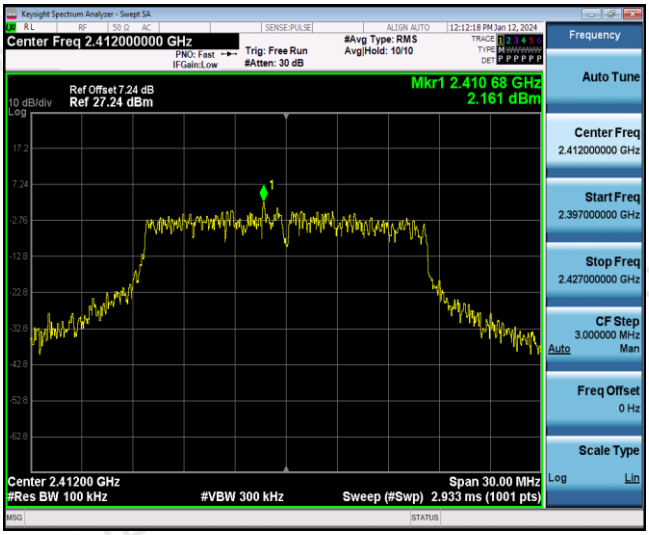
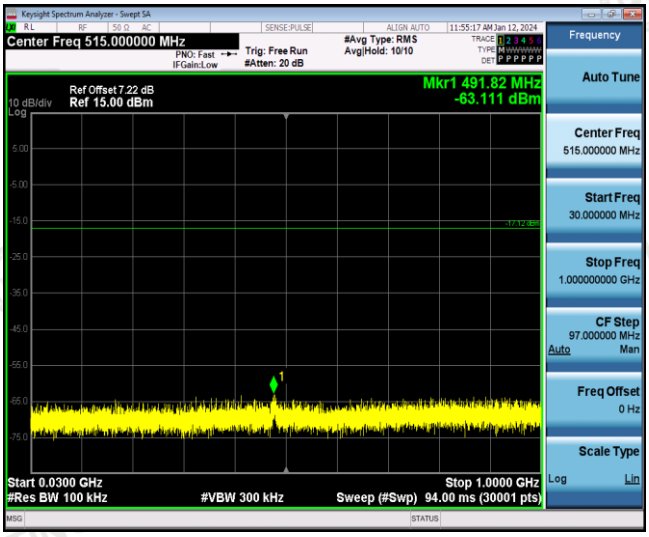
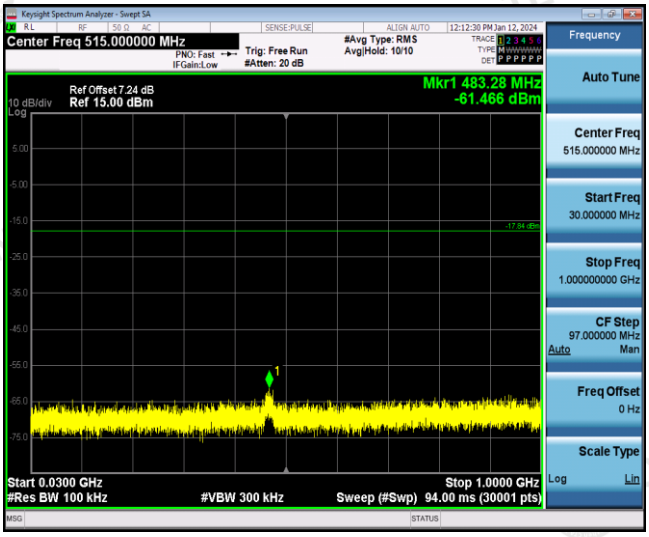
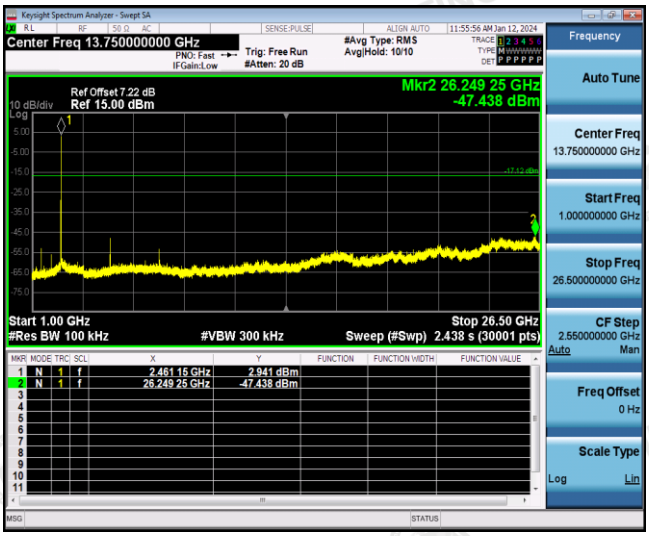
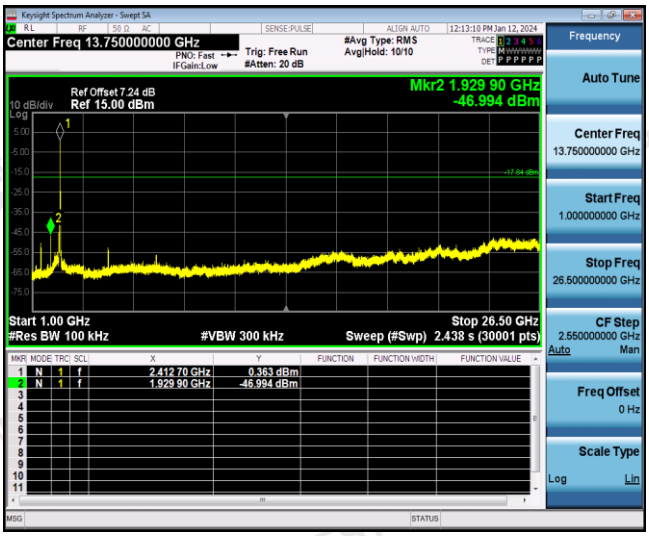
30MHz-1GHz



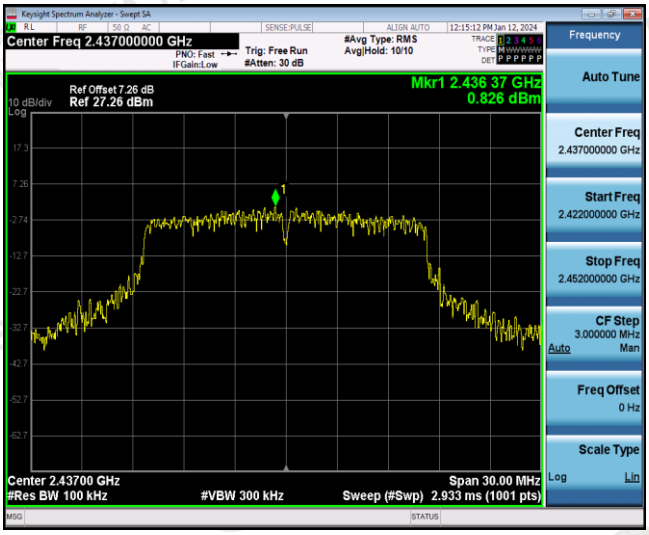
1GHz -25GHz



1GHz -25GHz

802.11b	802.11g
	
Reference	Reference
CH011	***CH01***
	
30MHz-1GHz	30MHz-1GHz
	
1GHz -25GHz	1GHz -25GHz

802.11g



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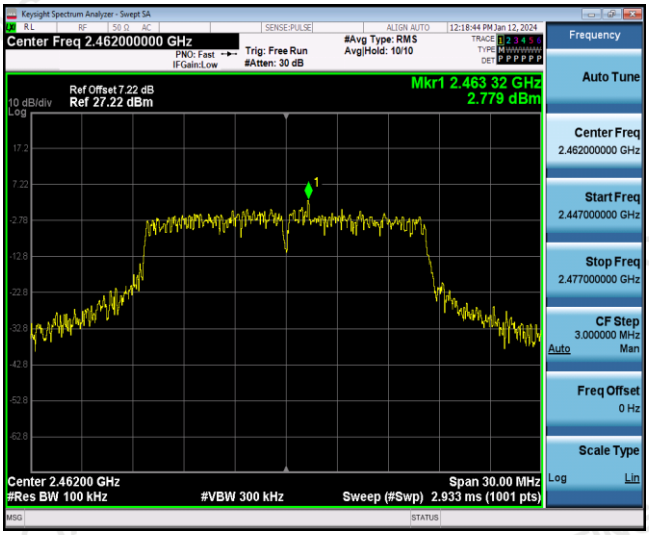
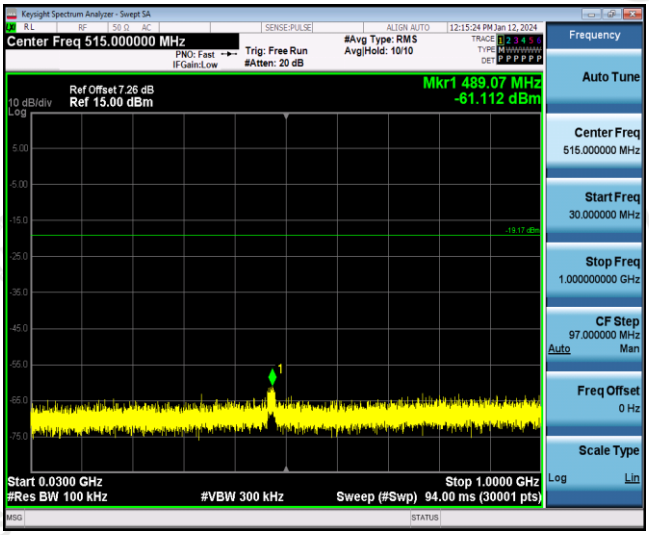


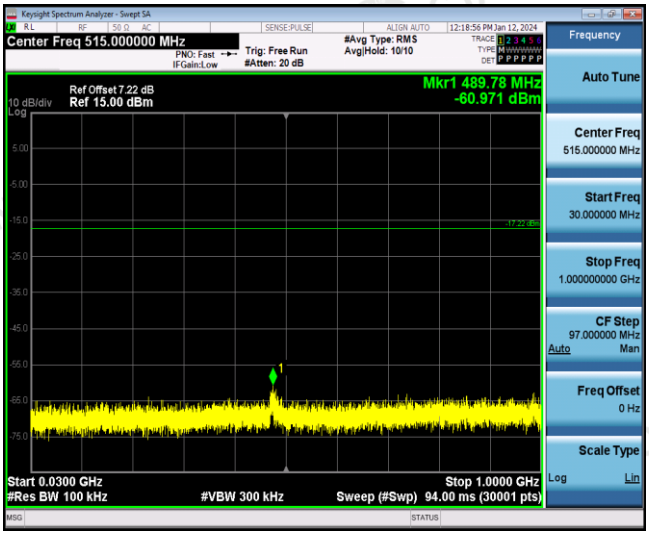
Reference

CH06

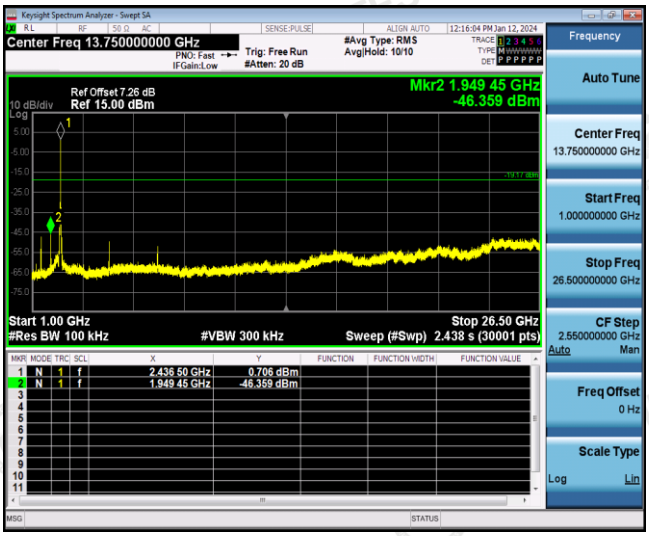


30MHz-1GHz

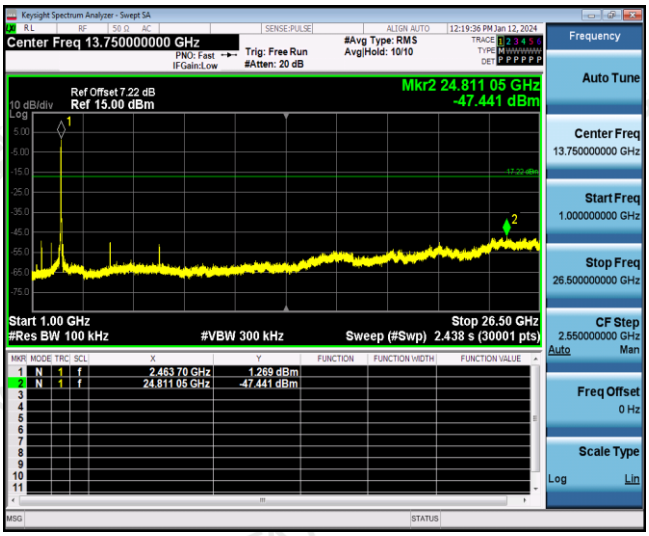
CH11



30MHz-1GHz

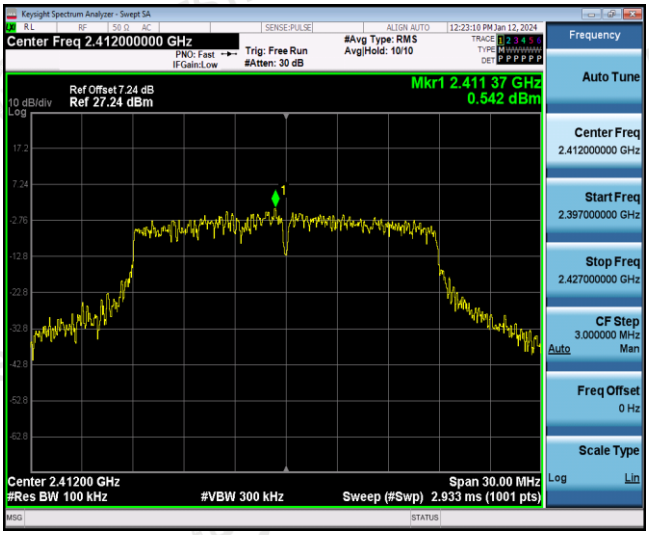


1GHz -25GHz



1GHz -25GHz

802.11n20



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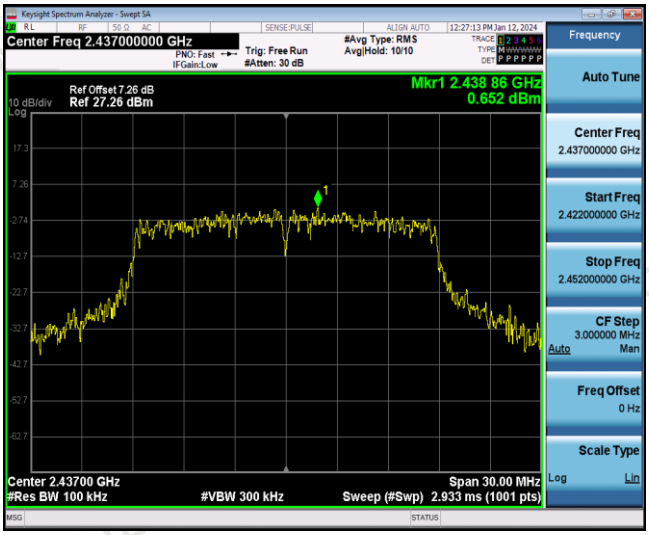
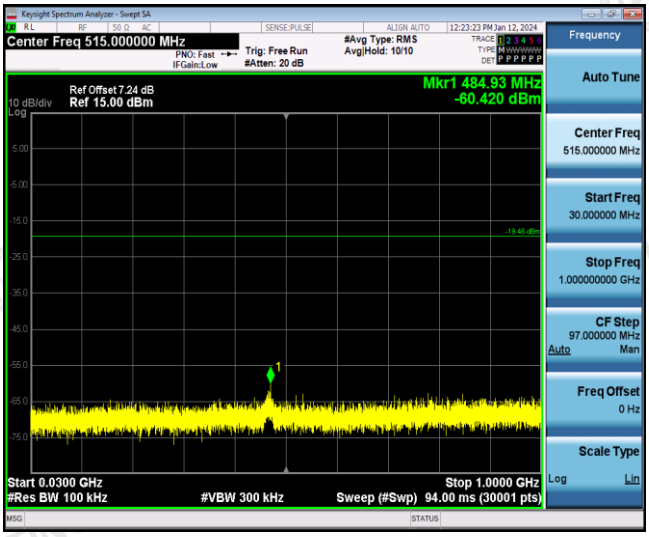


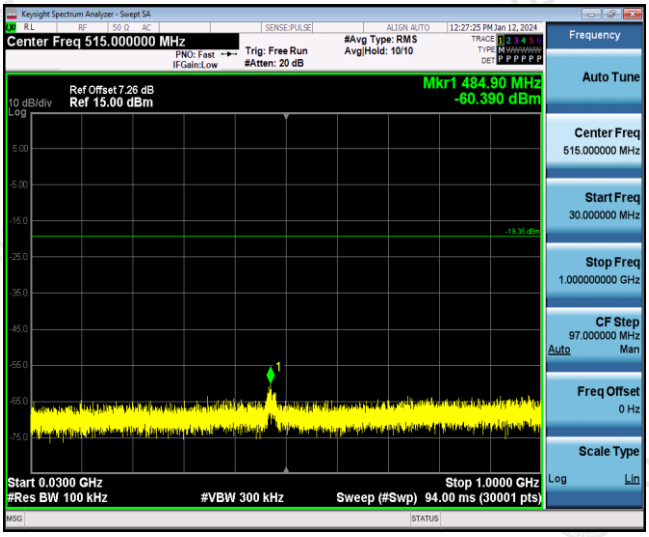
Reference

CH01

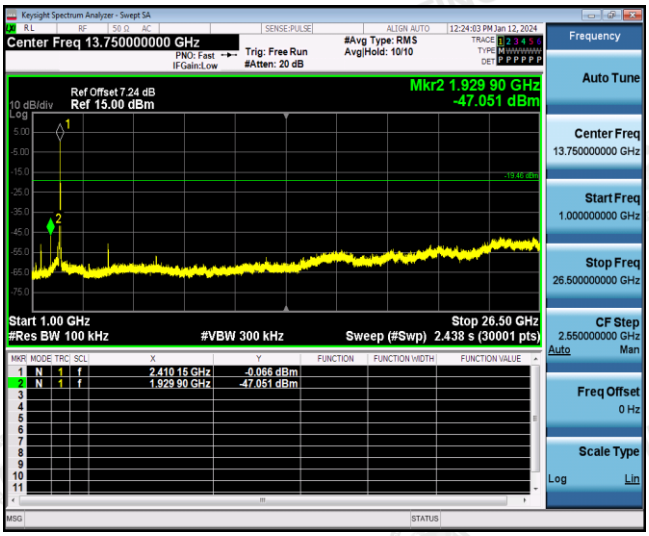


30MHz-1GHz

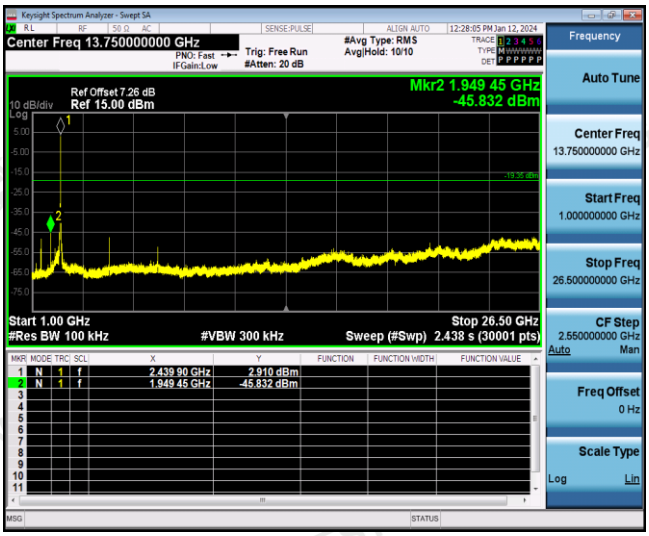
CH06



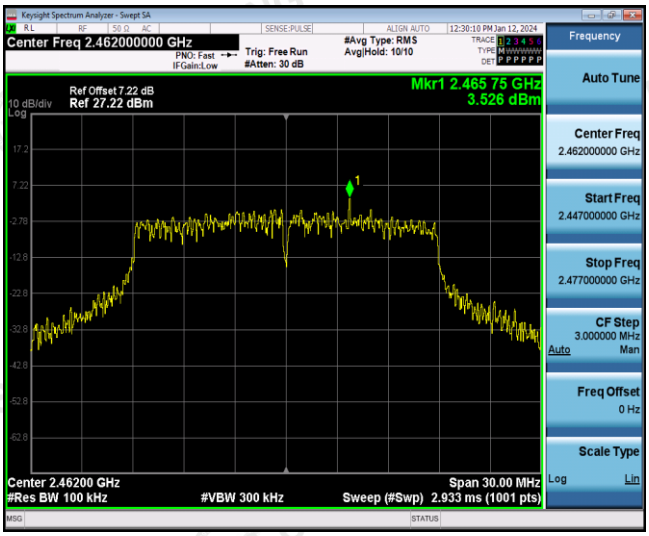
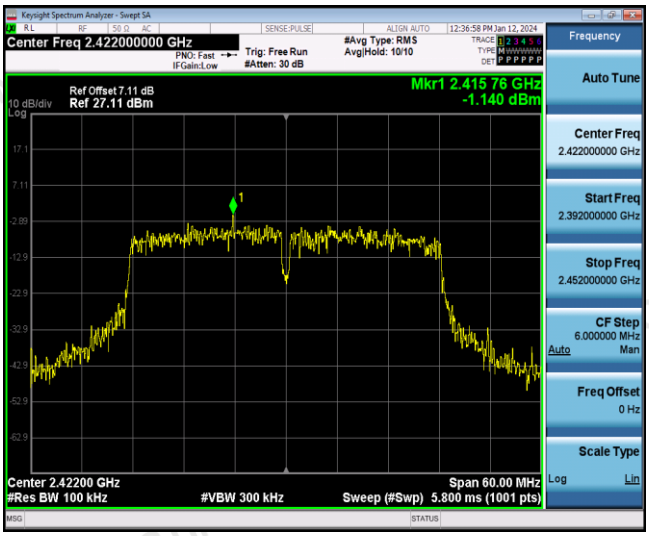
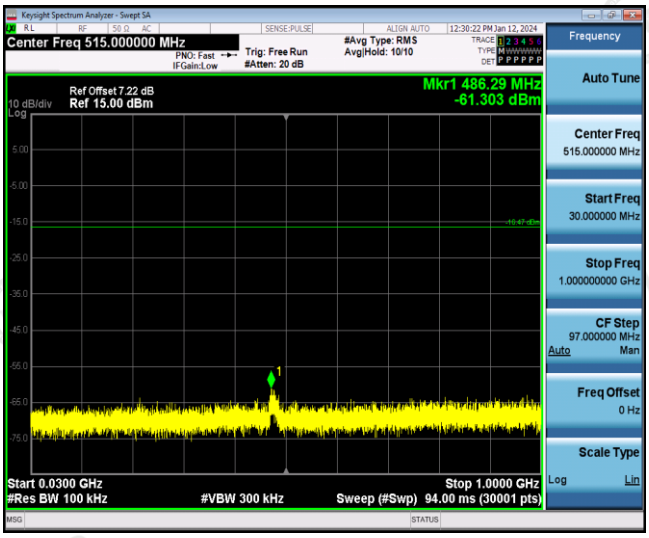
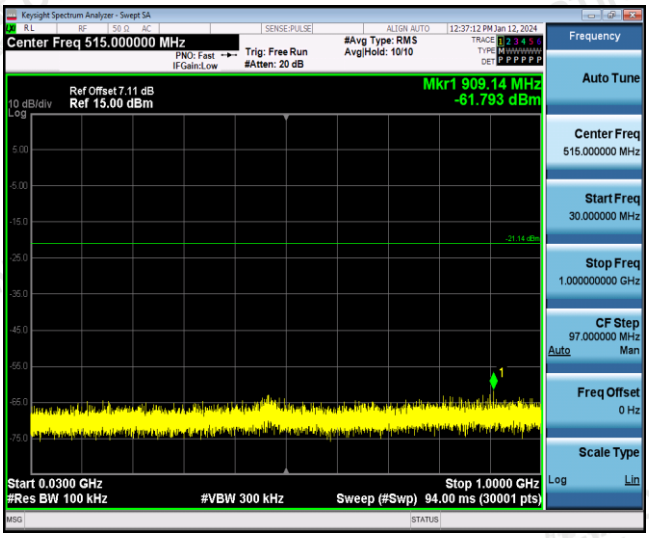
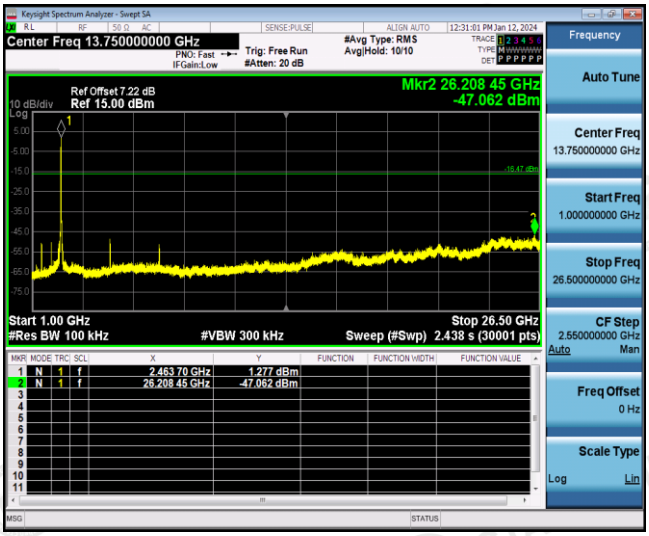
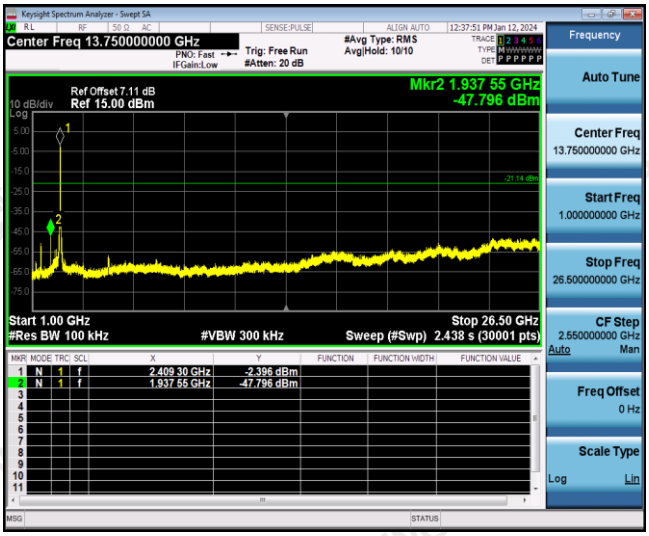
30MHz-1GHz



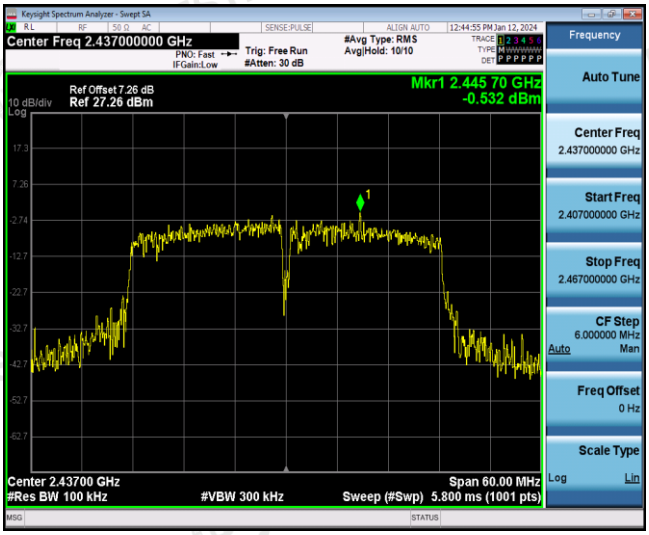
1GHz -25GHz



1GHz -25GHz

802.11n20	802.11n40
	
Reference	Reference
CH11	***CH03***
	
30MHz-1GHz	30MHz-1GHz
	
1GHz -25GHz	1GHz -25GHz

802.11n40



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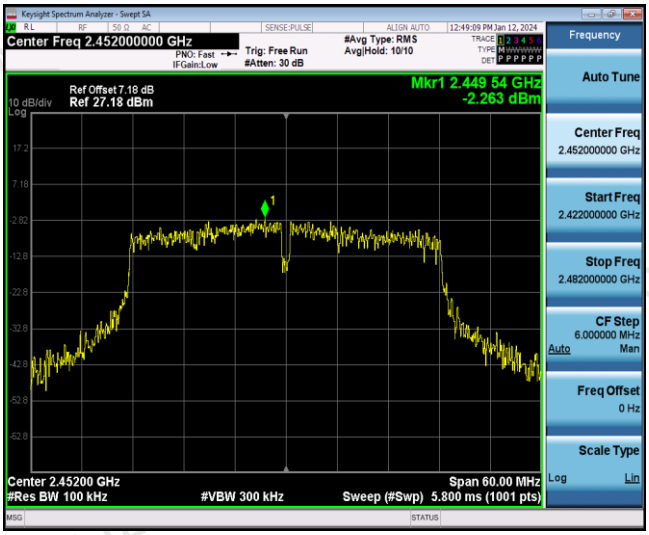
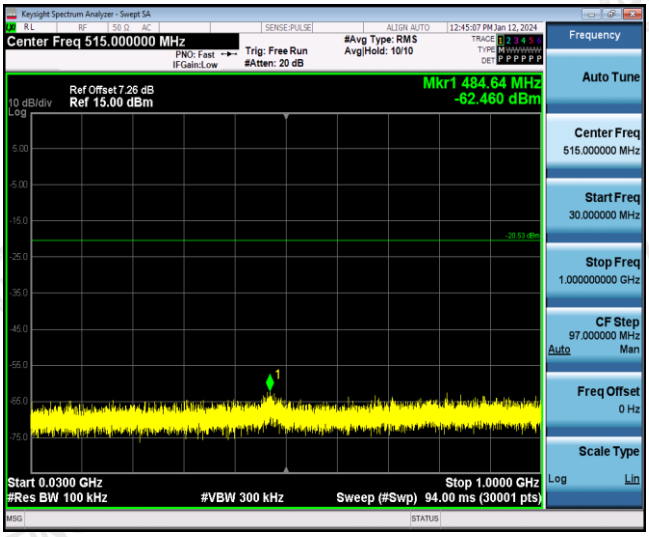


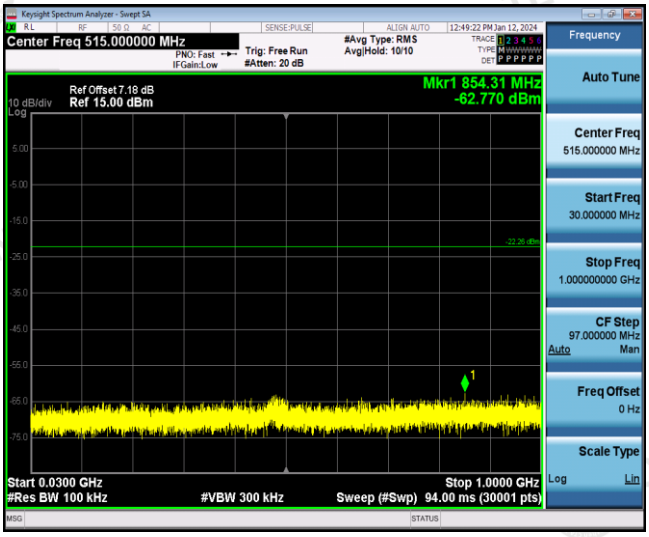
Reference

CH06

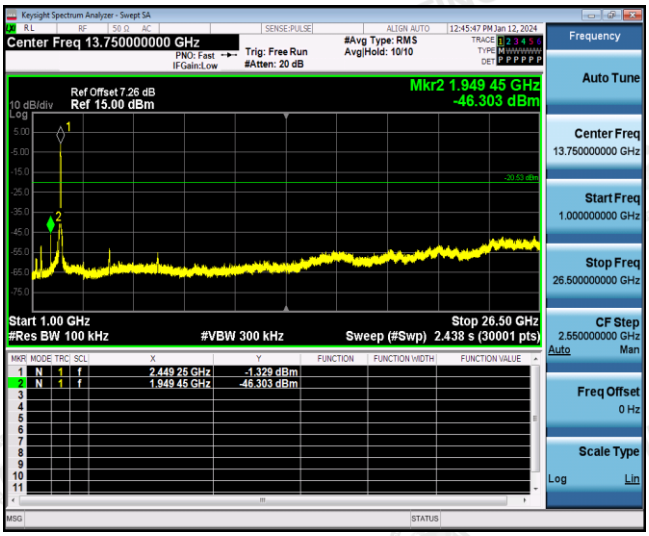


30MHz-1GHz

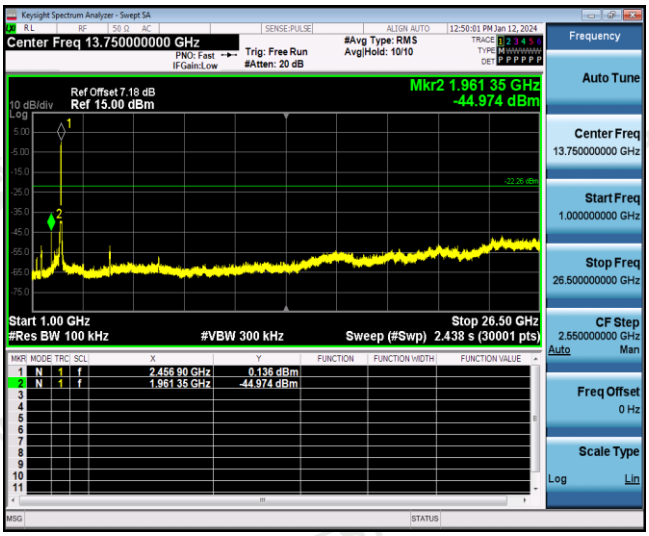
CH09



30MHz-1GHz



1GHz -25GHz



1GHz -25GHz