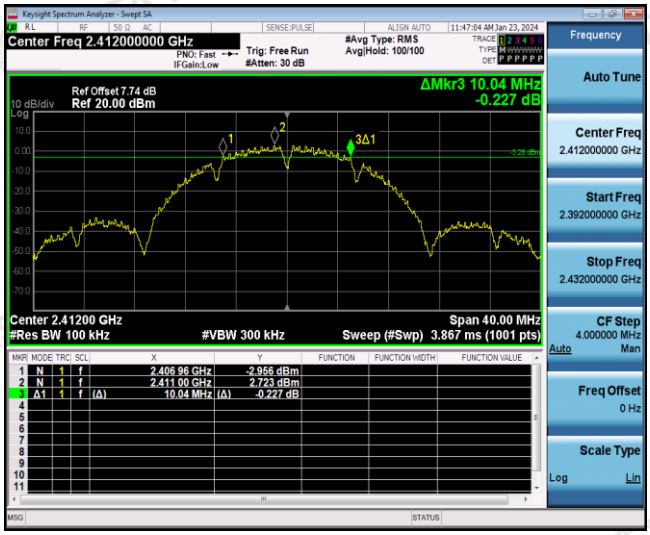
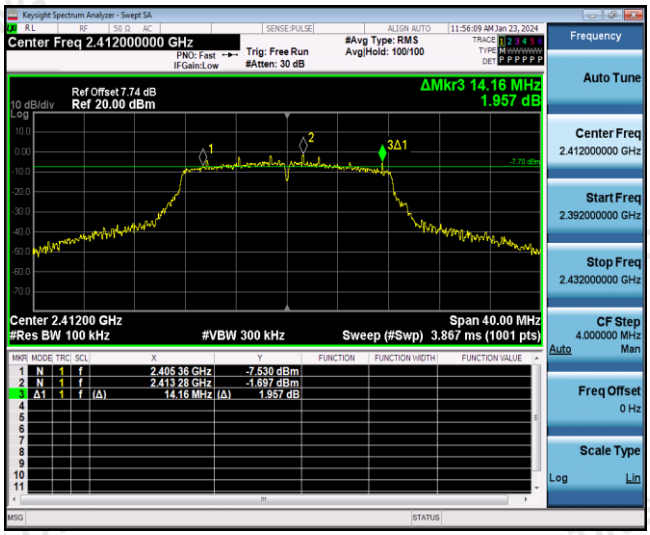
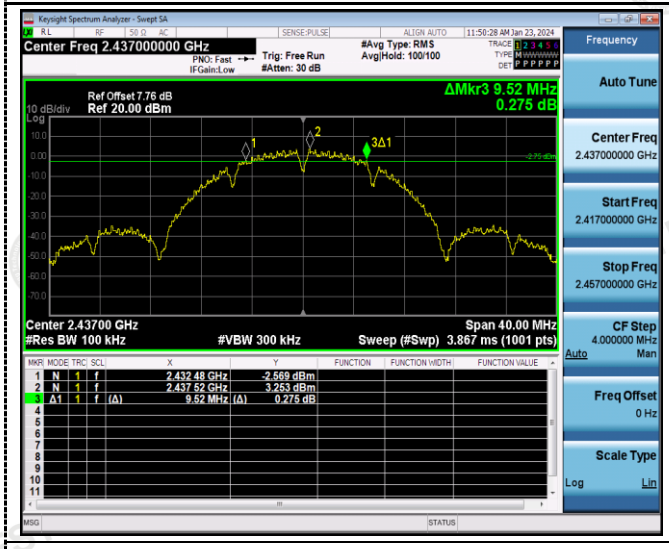
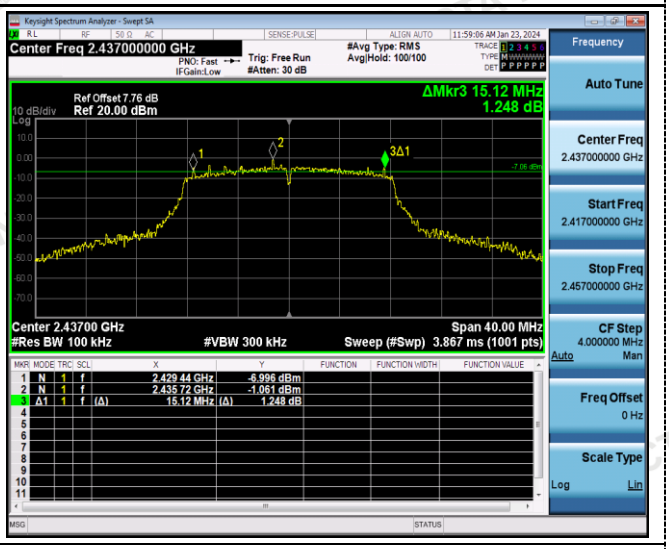
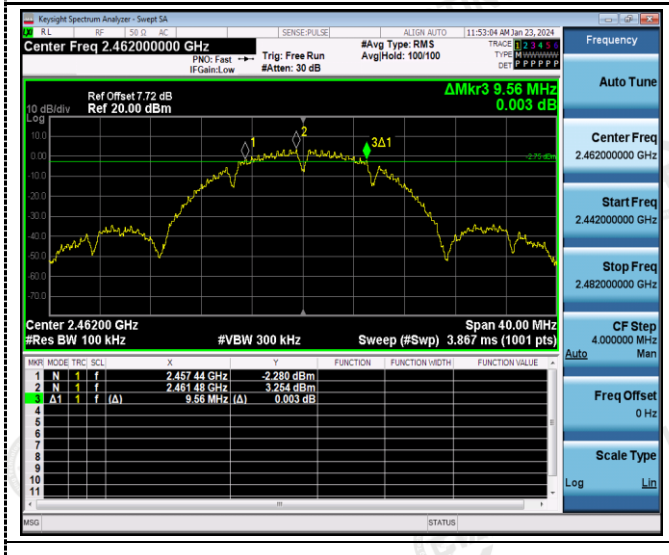
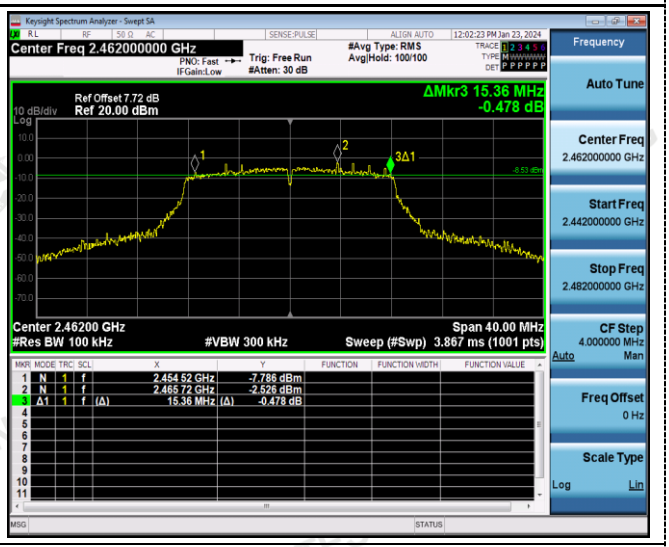
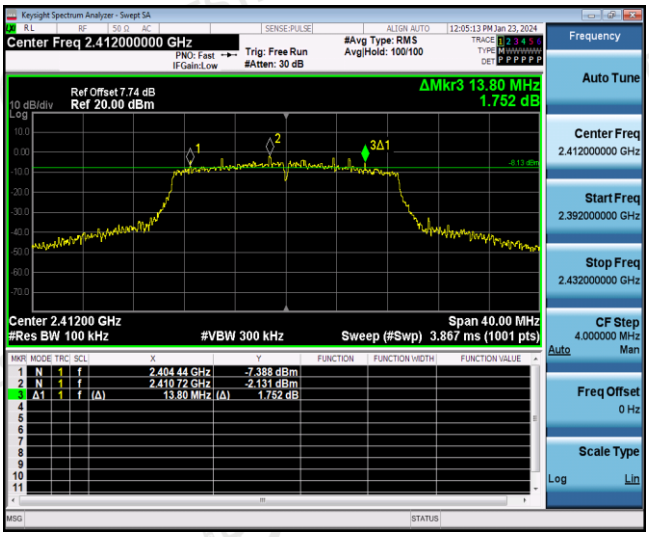
Ant2:

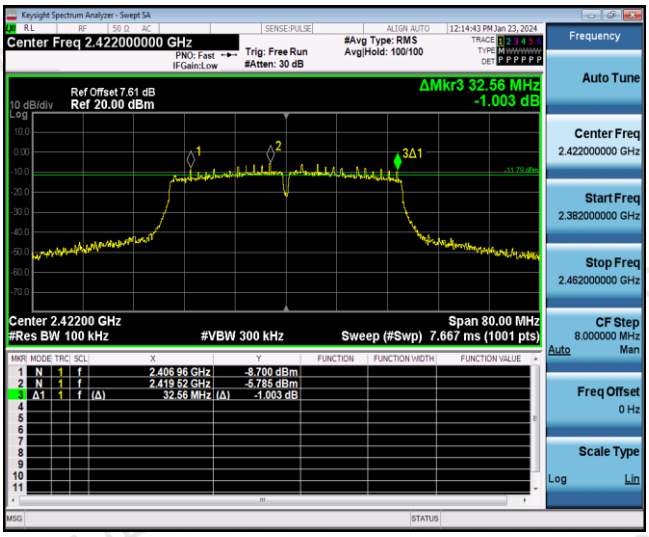
| 802.11b | 802.11g |
|---|---|
|  |  |
| CH01 | CH01 |
|  |  |
| CH06 | CH06 |
|  |  |
| CH11 | CH11 |

802.11n(HT20)

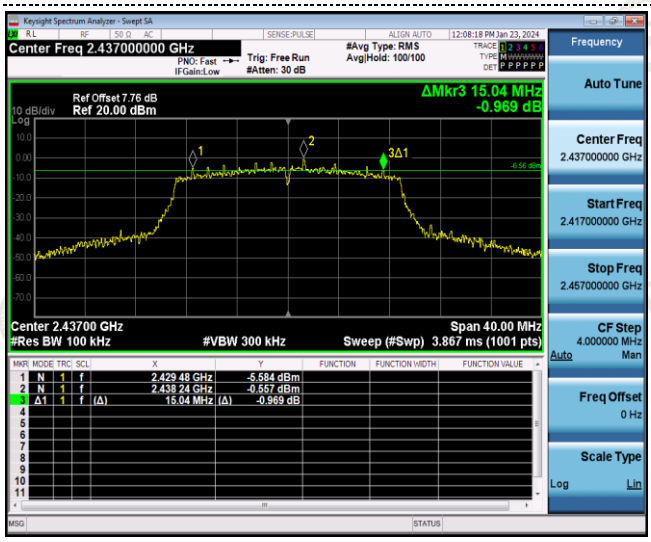



CH01

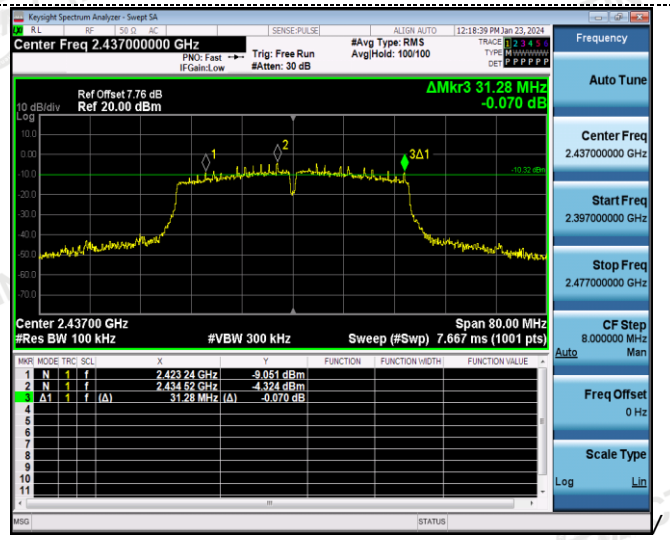
802.11n(HT40)




CH03




CH06

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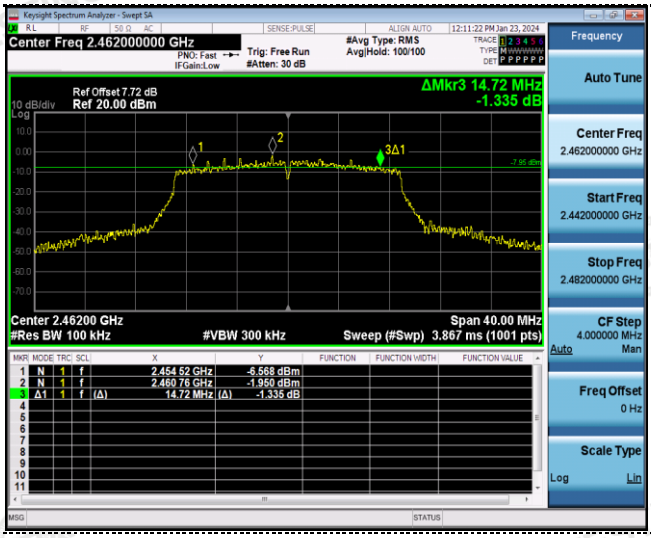
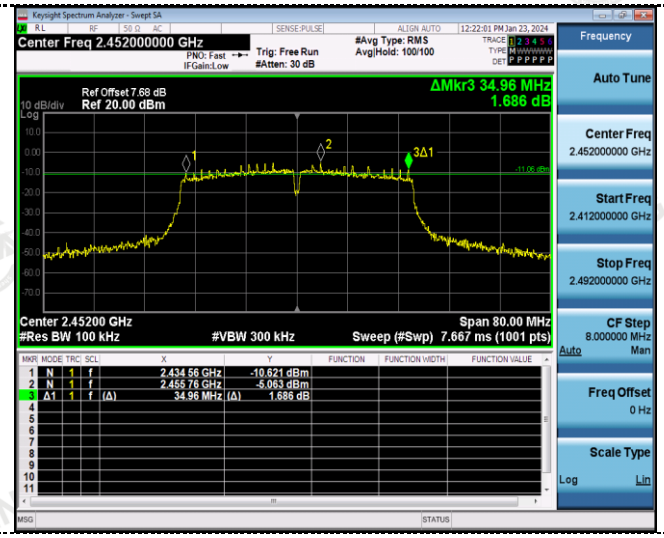



CH11




CH09

## 4.6 Out-of-band Emissions

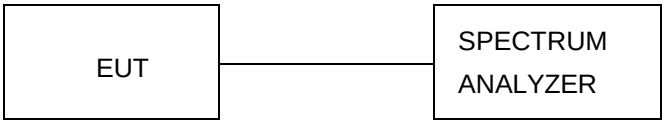
**Limit**

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**



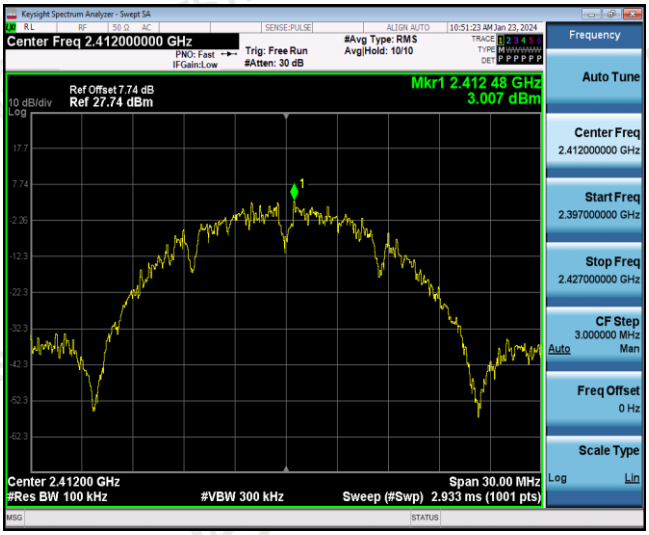

**Test Results**

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.

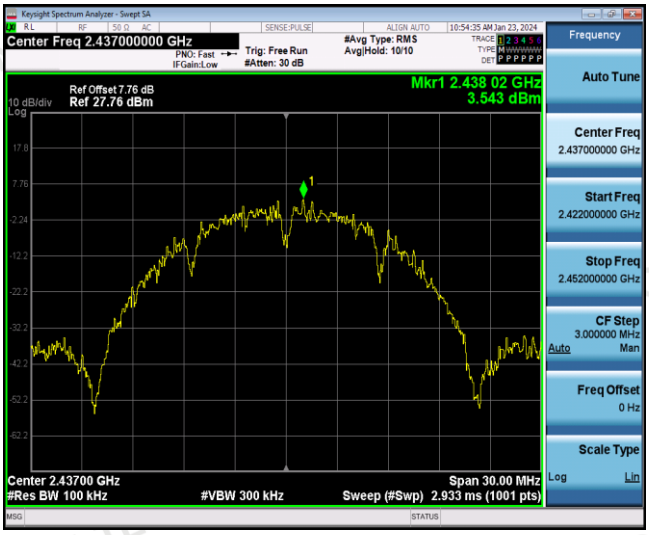
Test plot as follows:

Ant1:

***802.11b***

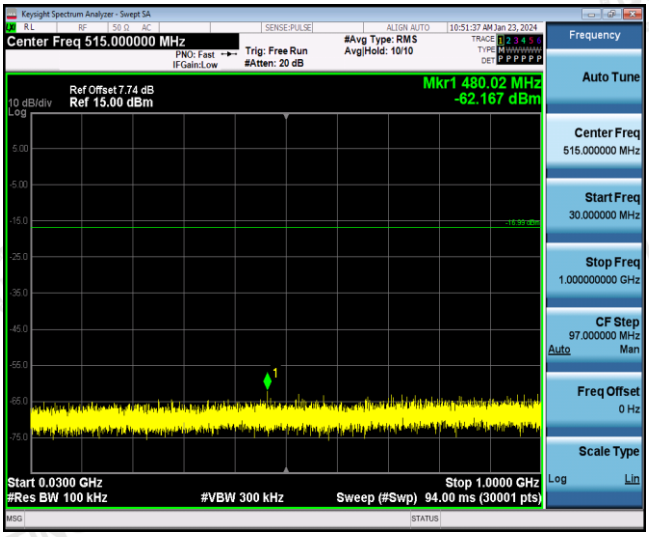



Reference



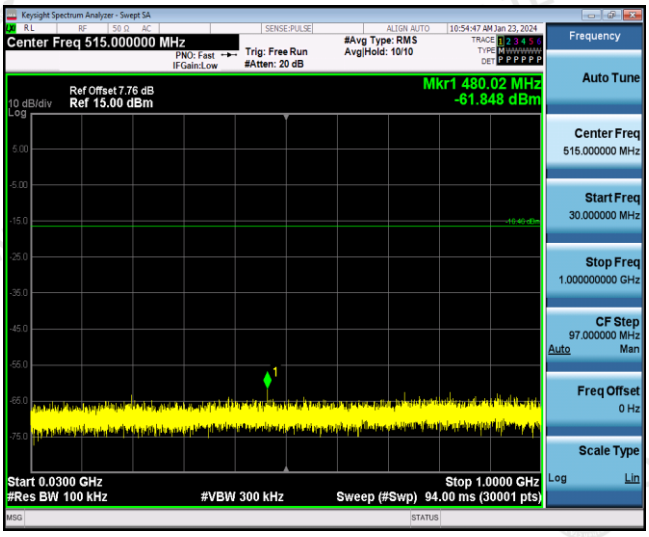

Reference

***CH01***

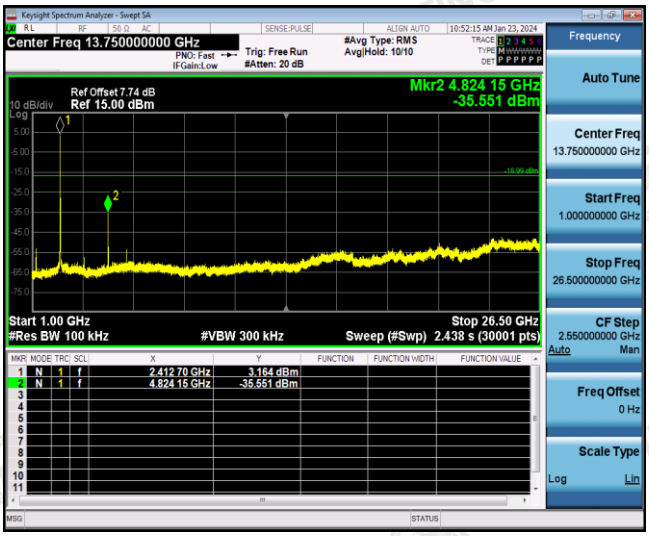



30MHz-1GHz

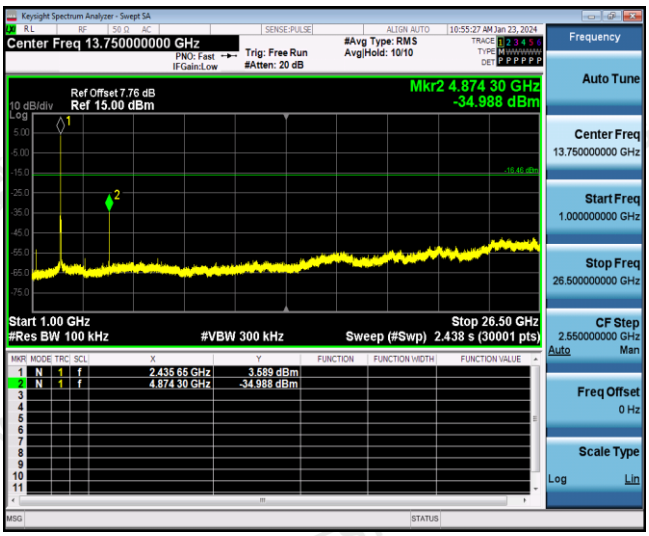
***CH06***



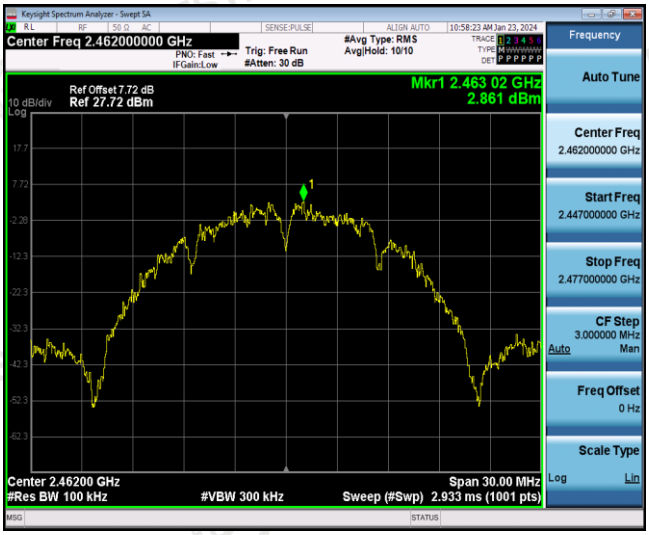
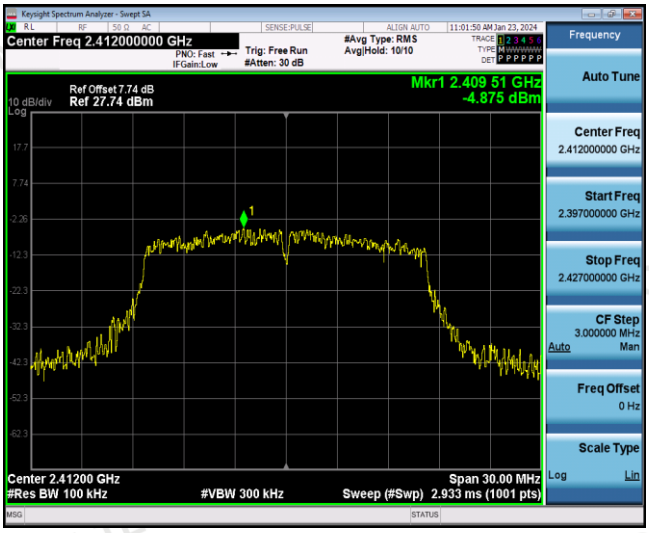
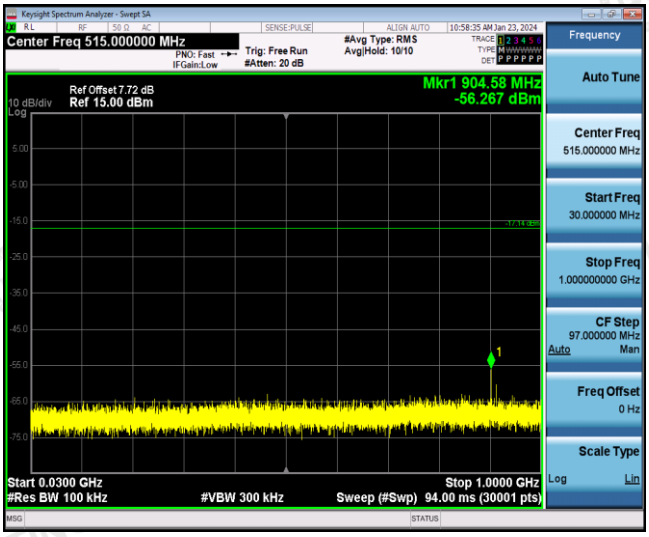
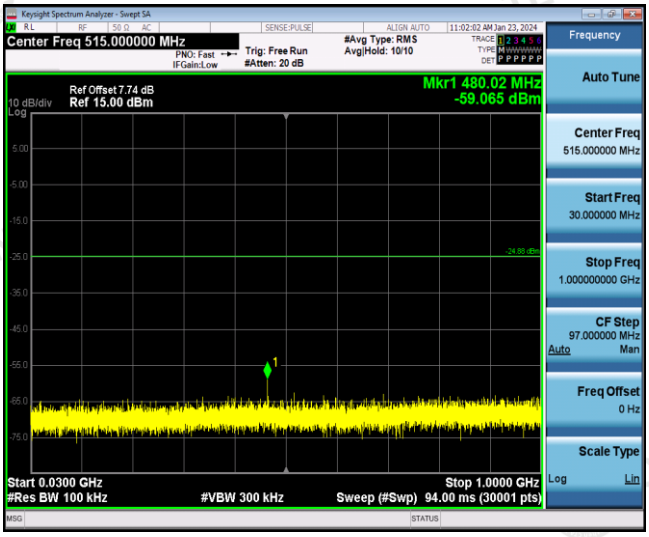
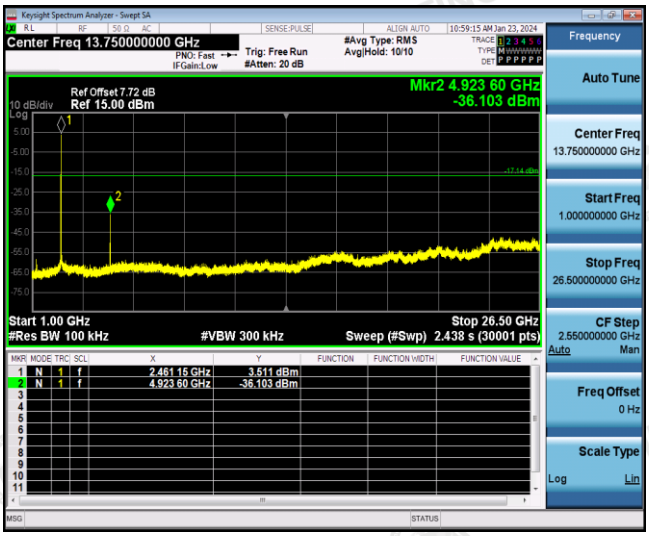
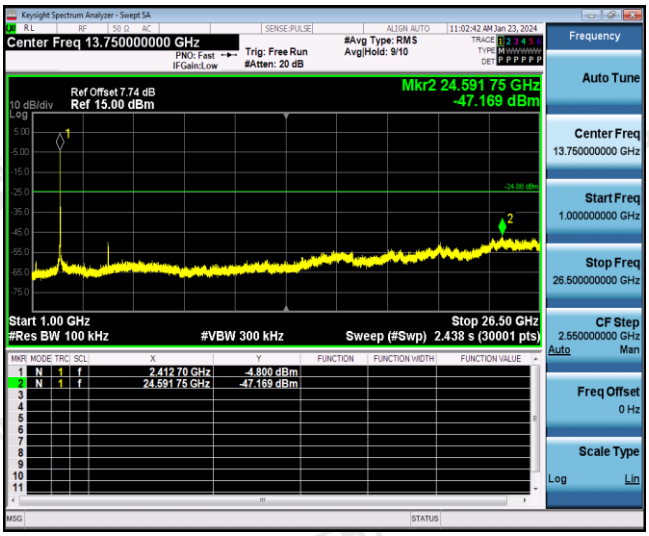

30MHz-1GHz



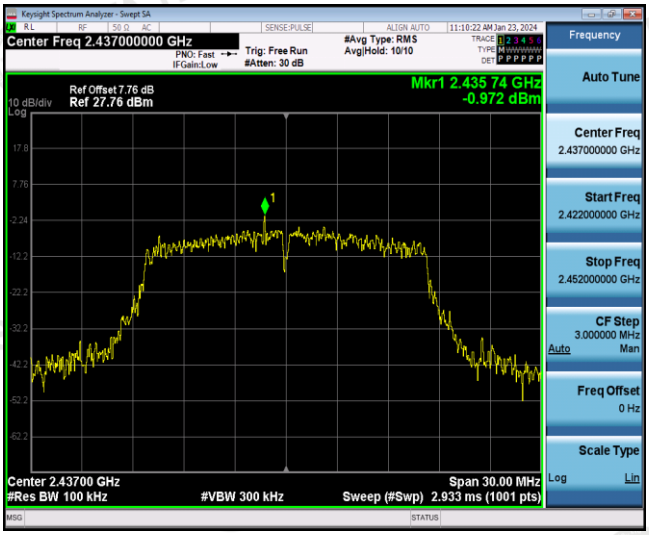

1GHz -25GHz




1GHz -25GHz

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

***802.11g***

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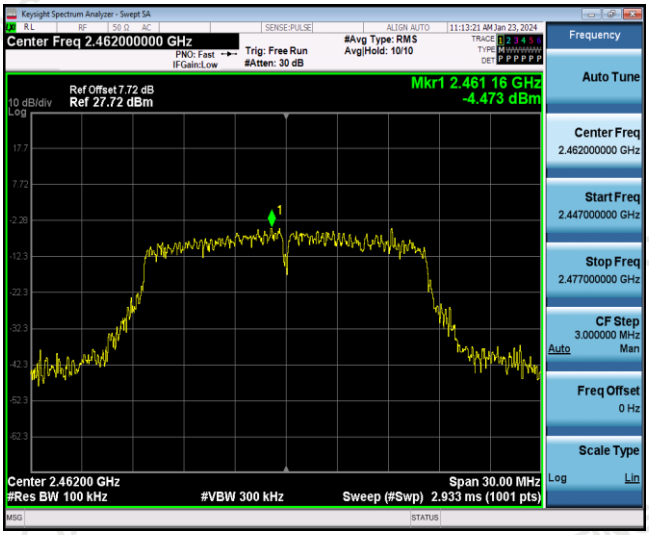
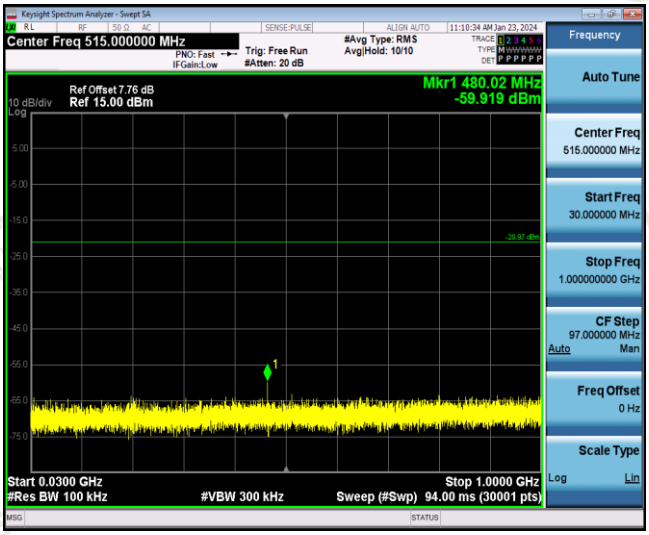


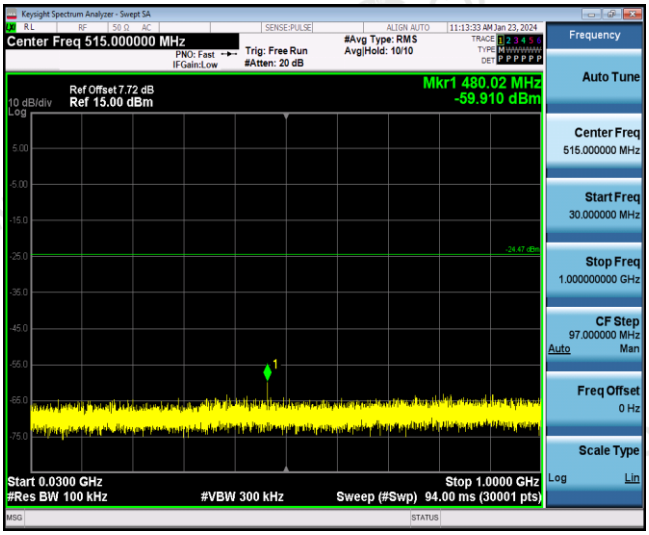

Reference

***CH06***

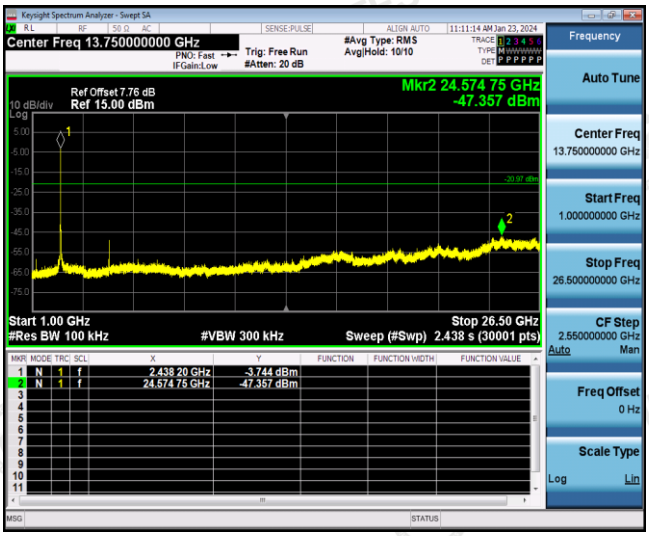



30MHz-1GHz

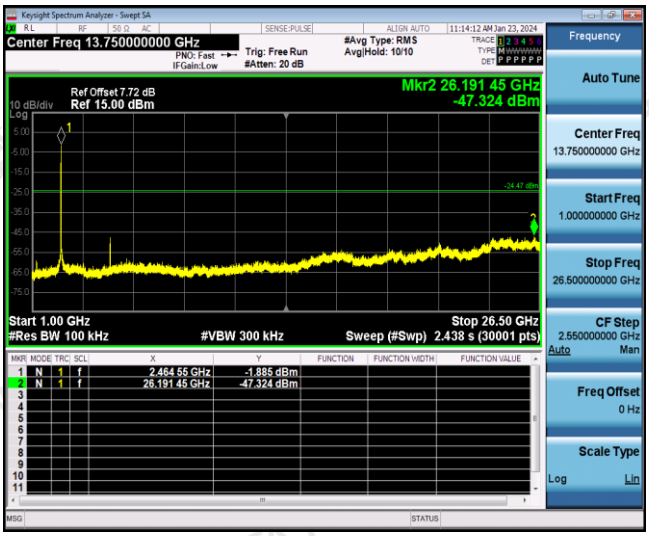
***CH11***




30MHz-1GHz

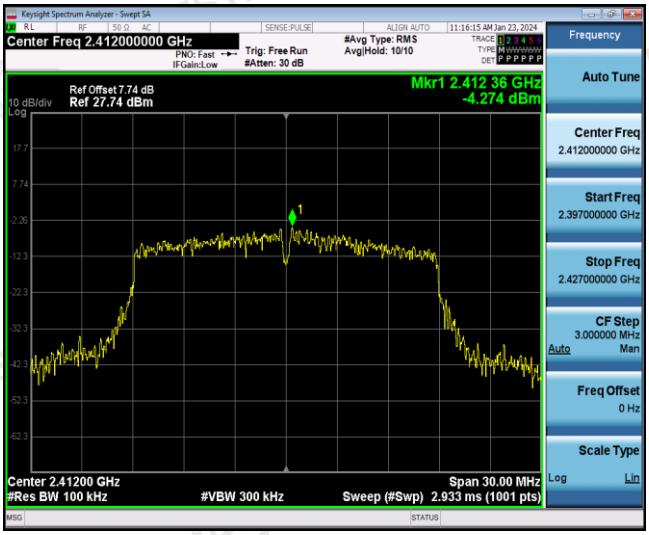



1GHz -25GHz




1GHz -25GHz

***802.11n20***

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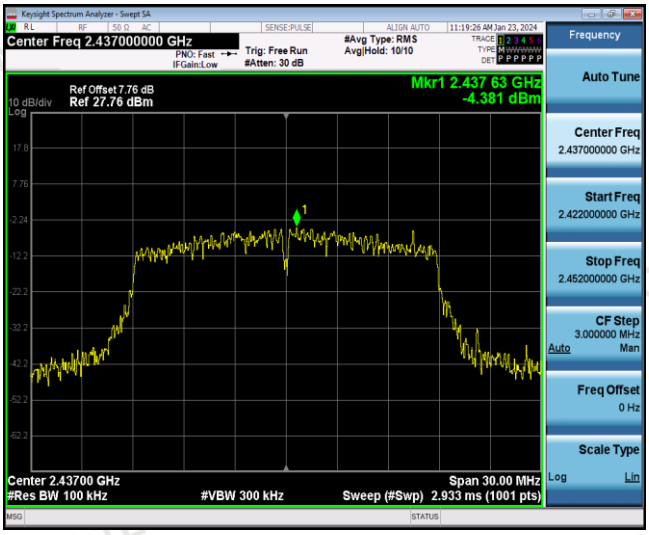
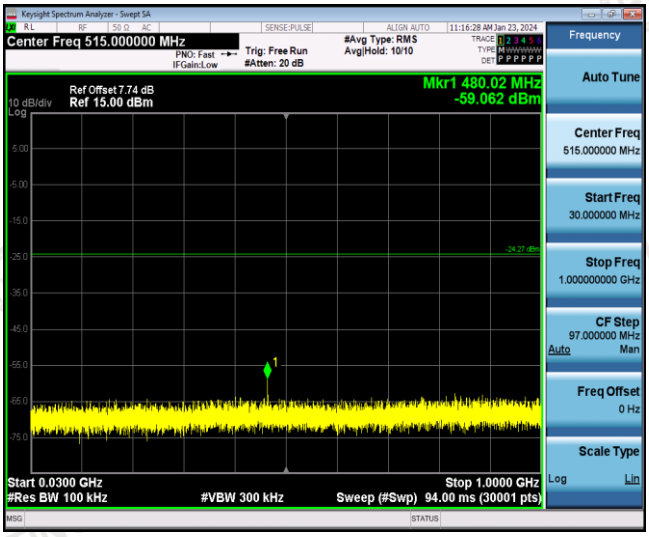


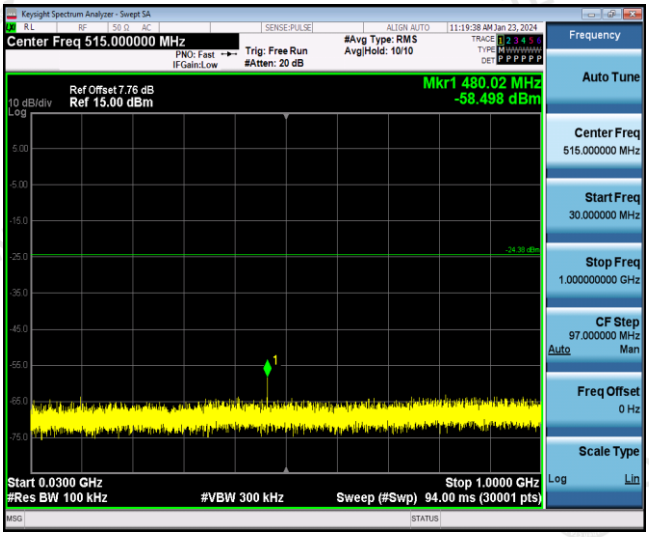

Reference

***CH01***

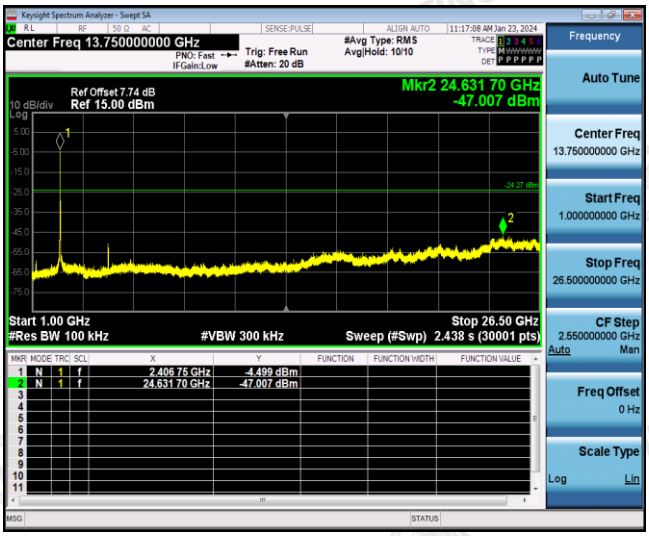



30MHz-1GHz

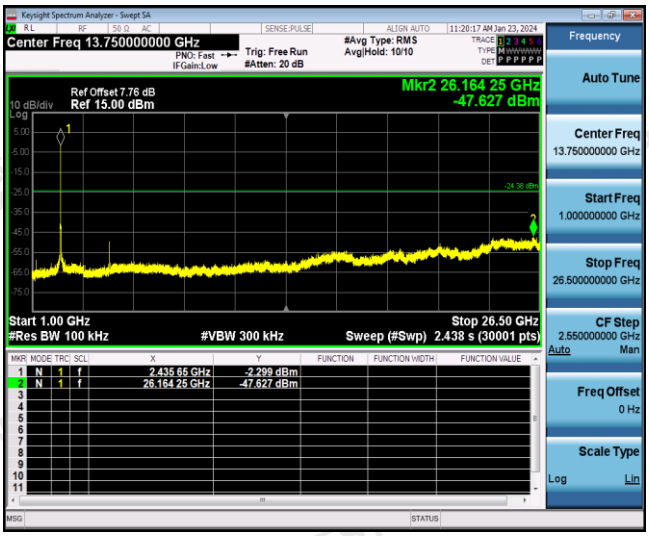
***CH06***



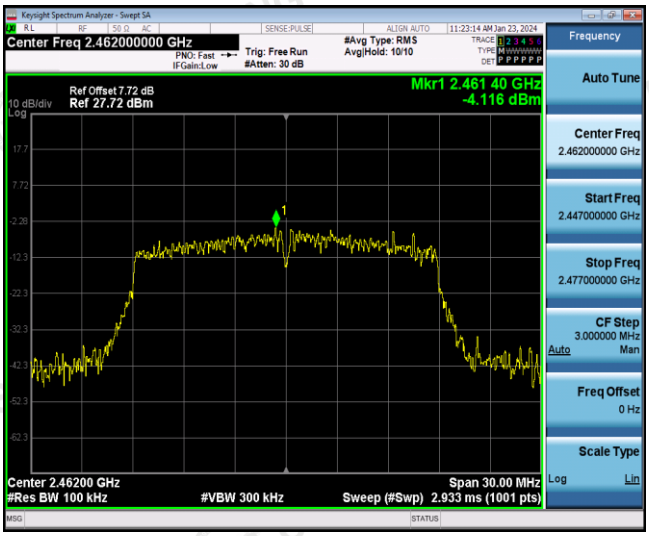
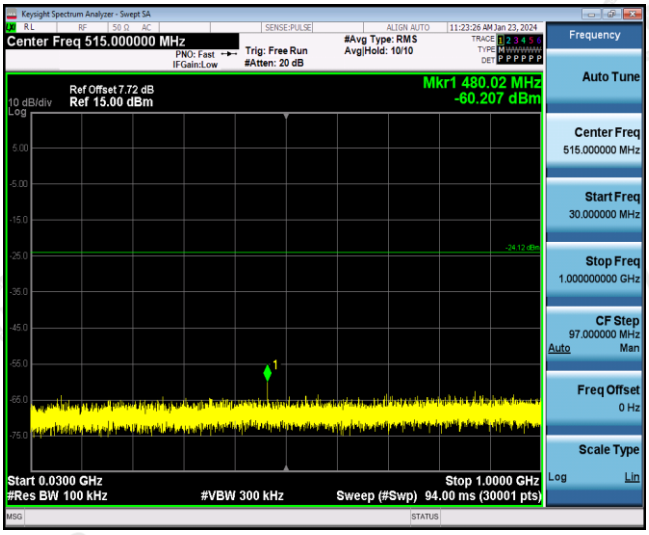
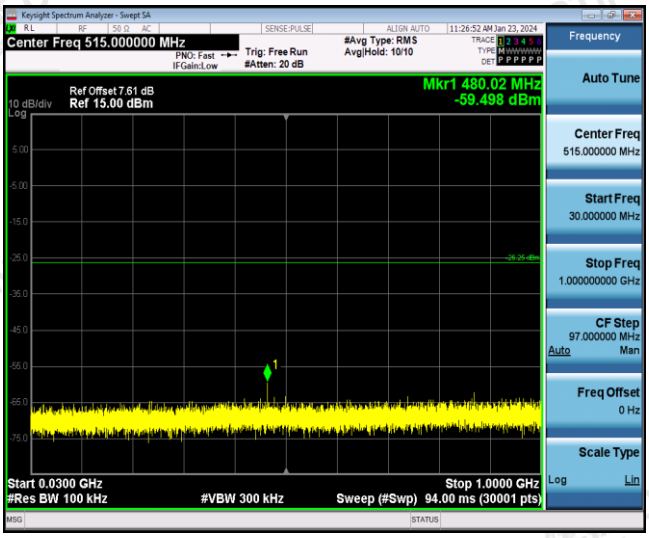
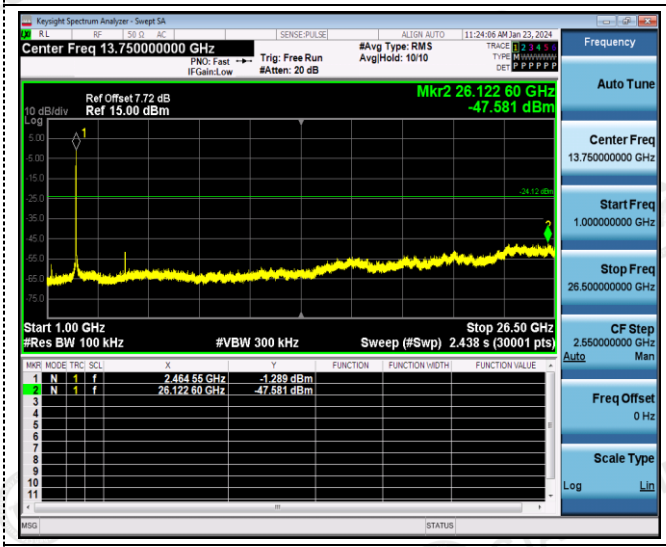
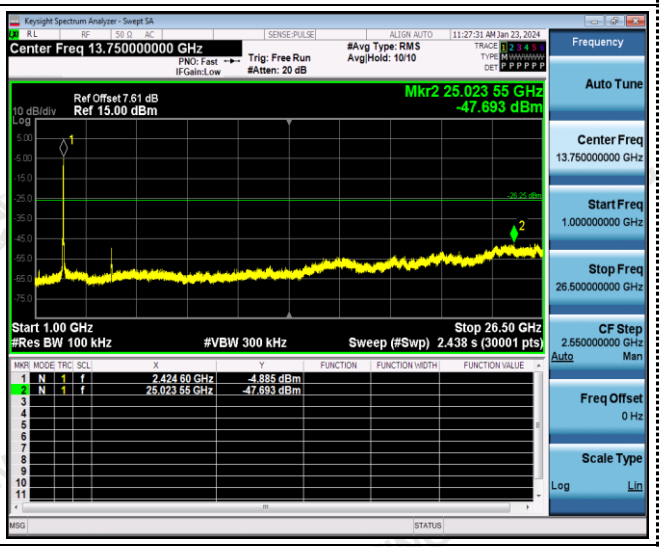

30MHz-1GHz



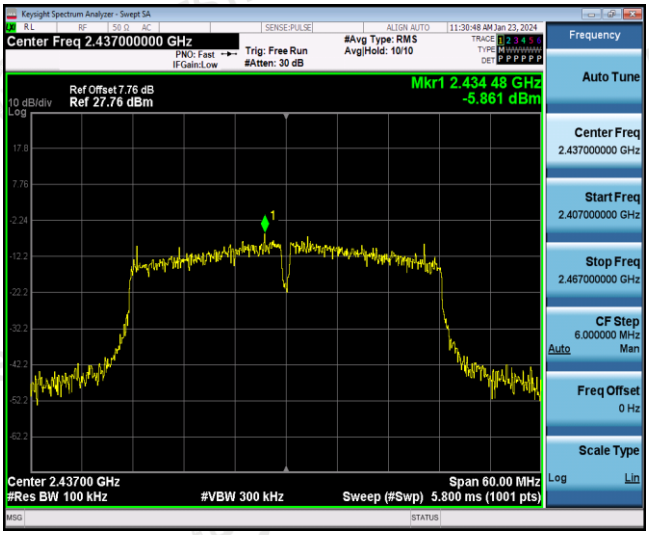

1GHz -25GHz




1GHz -25GHz

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

***802.11n40***

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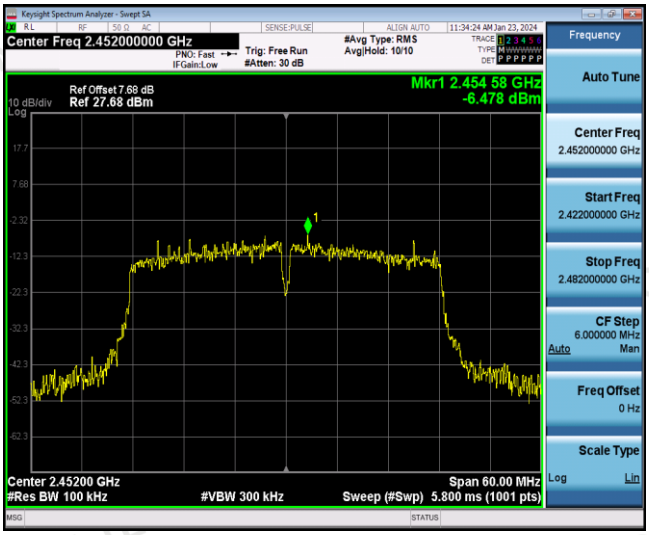
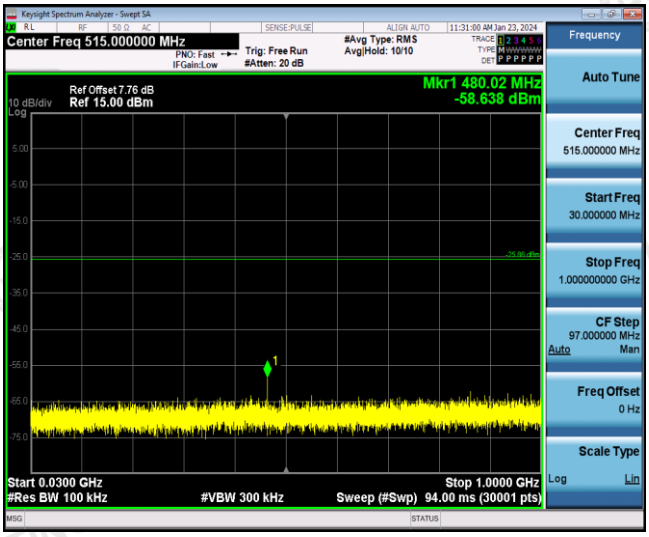


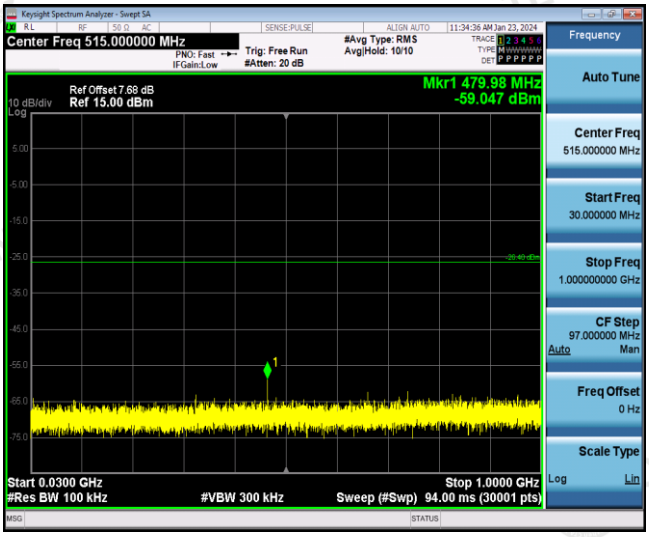

Reference

***CH06***

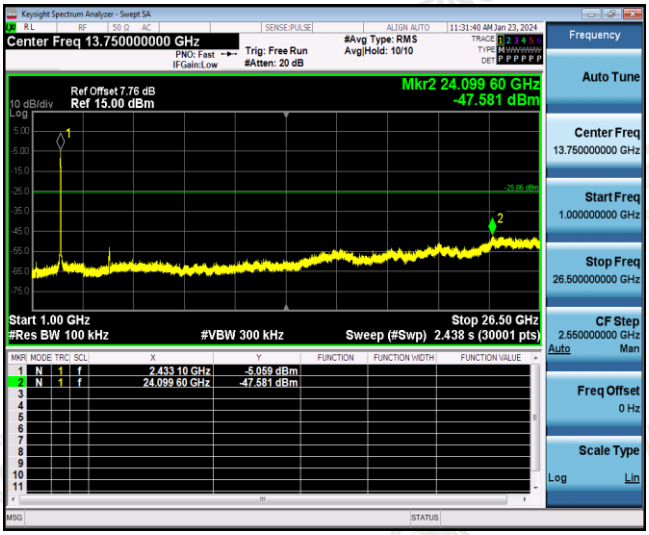



30MHz-1GHz

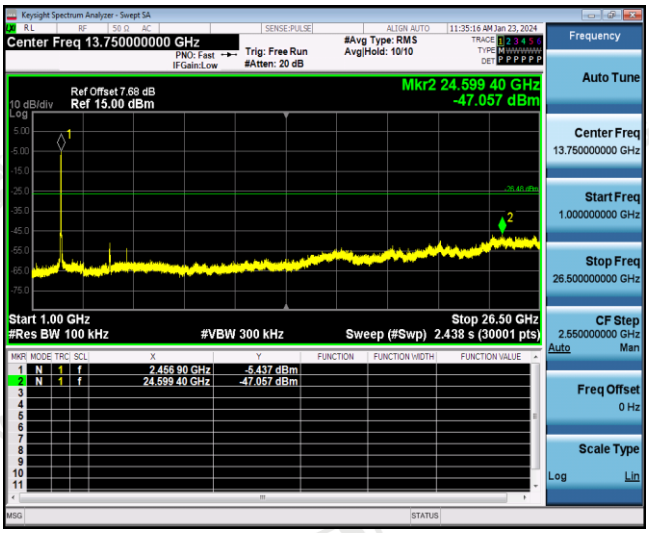
***CH09***




30MHz-1GHz




1GHz -25GHz




1GHz -25GHz