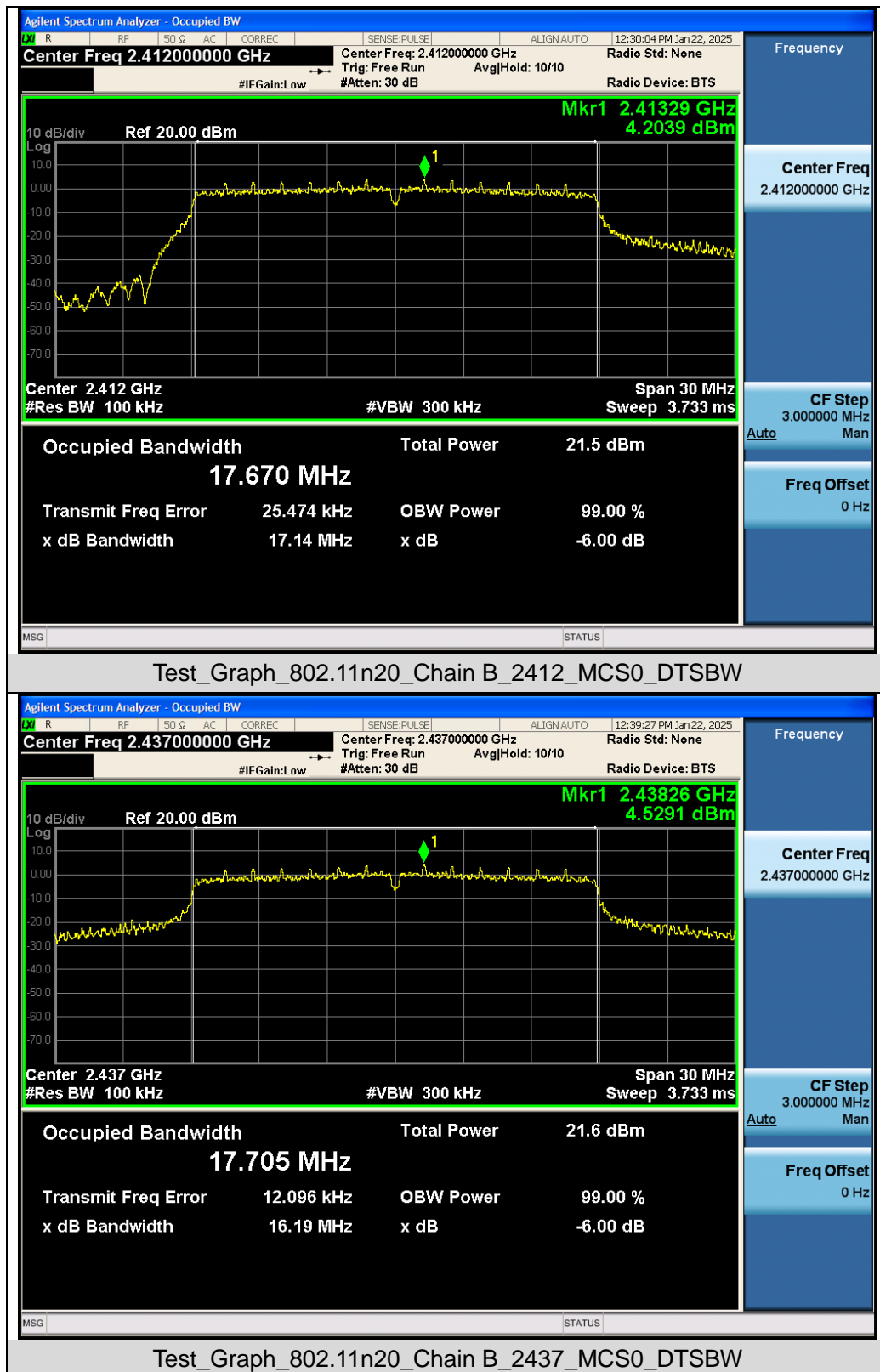
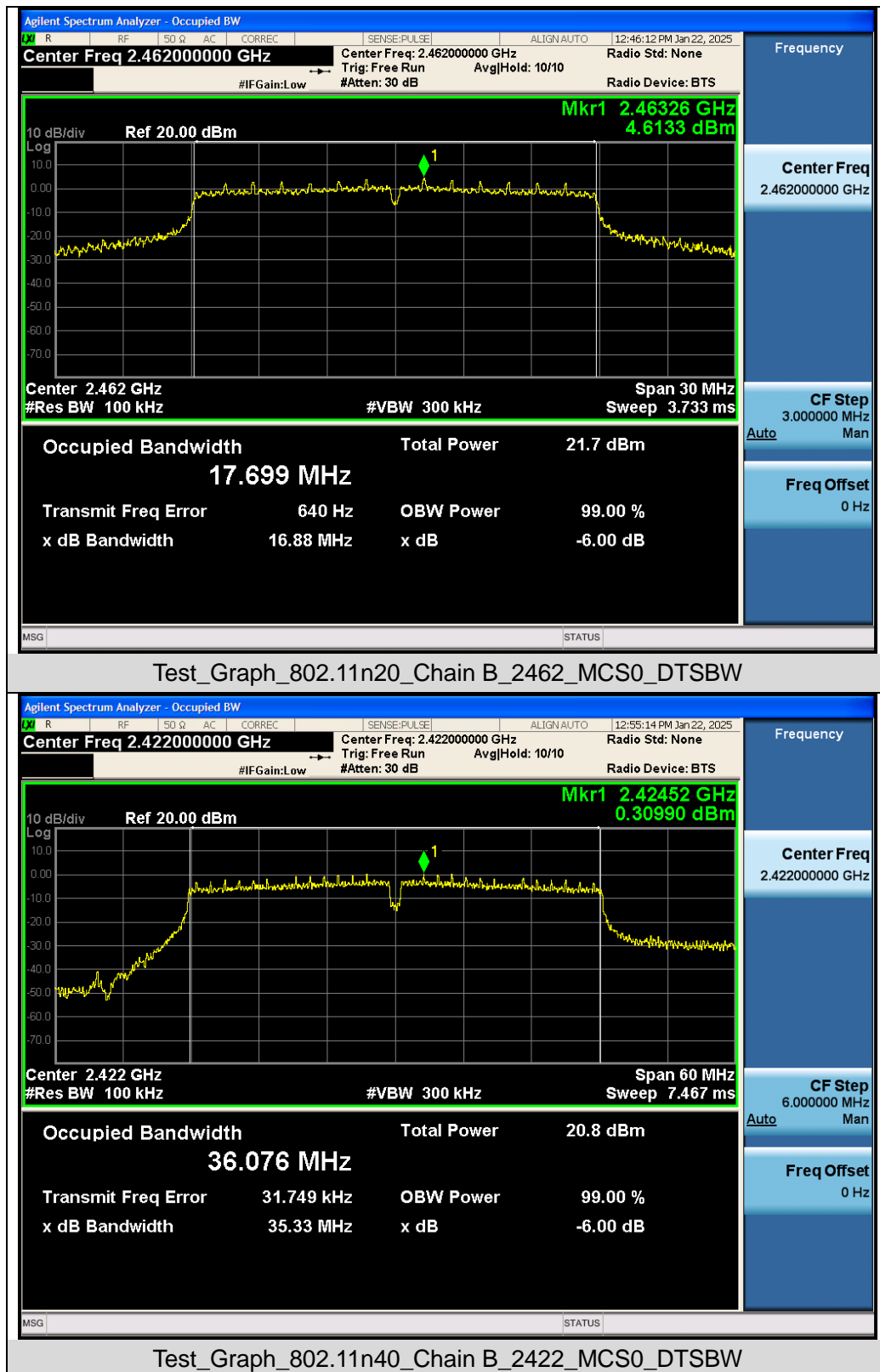


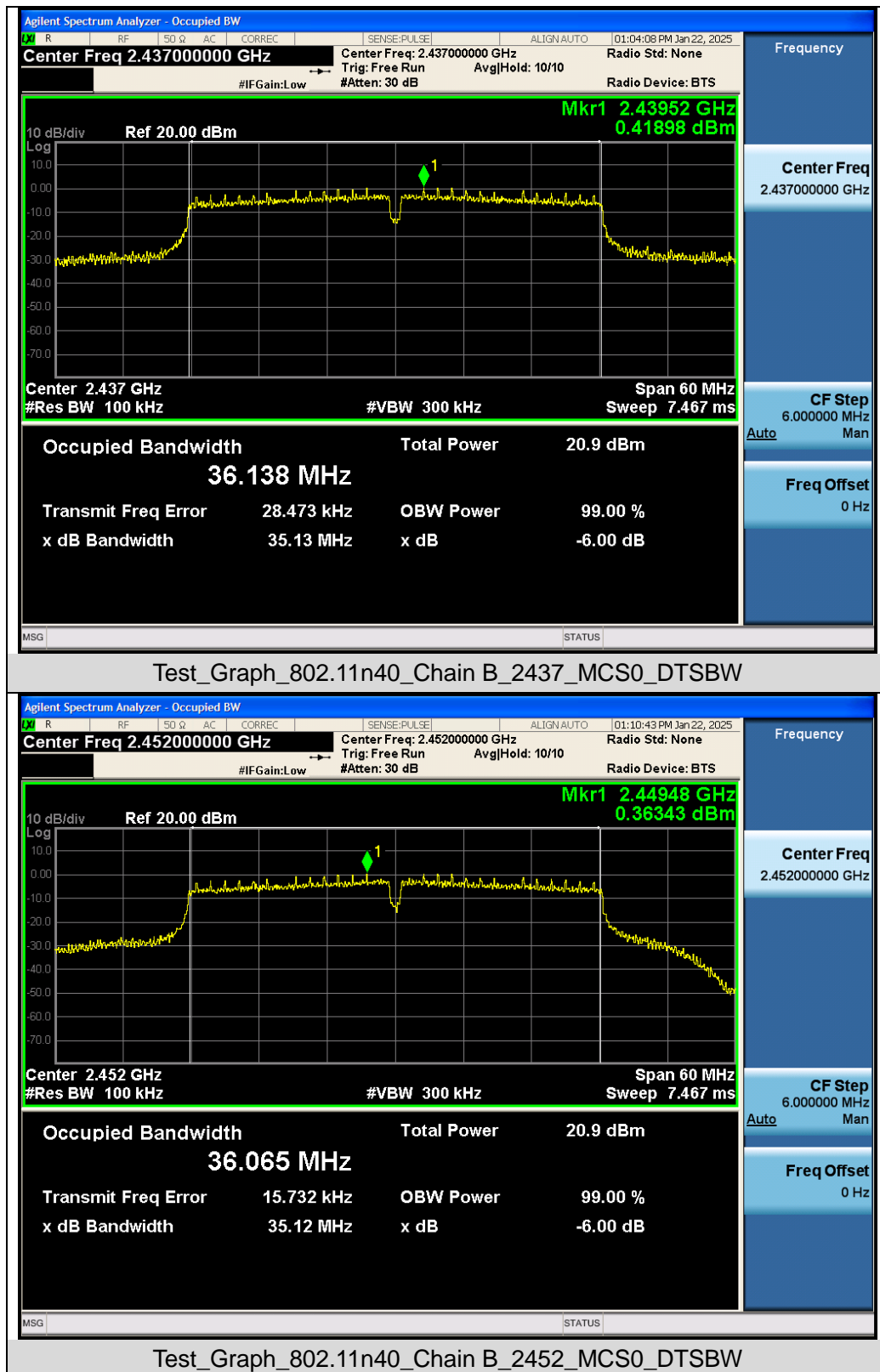
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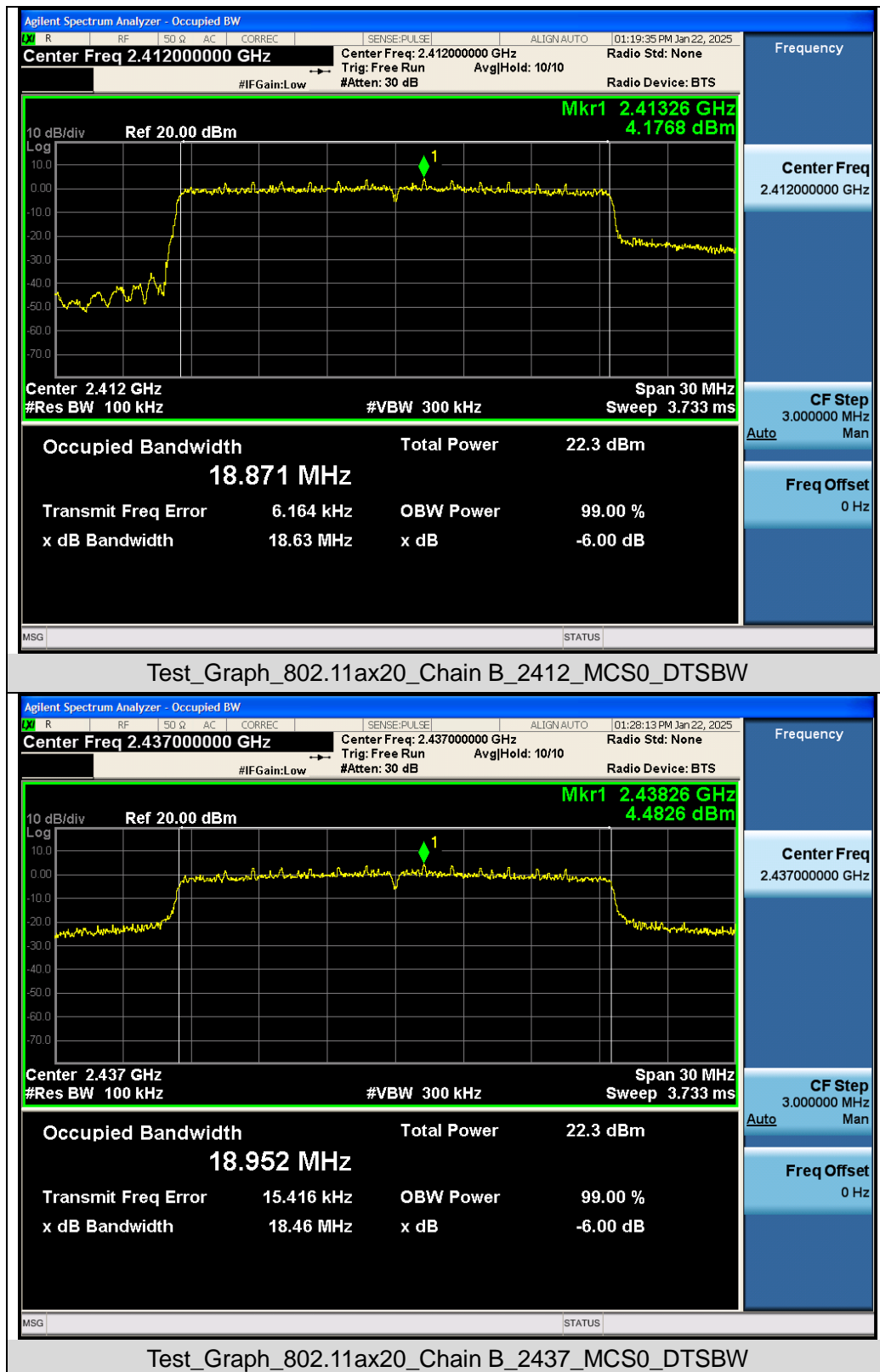
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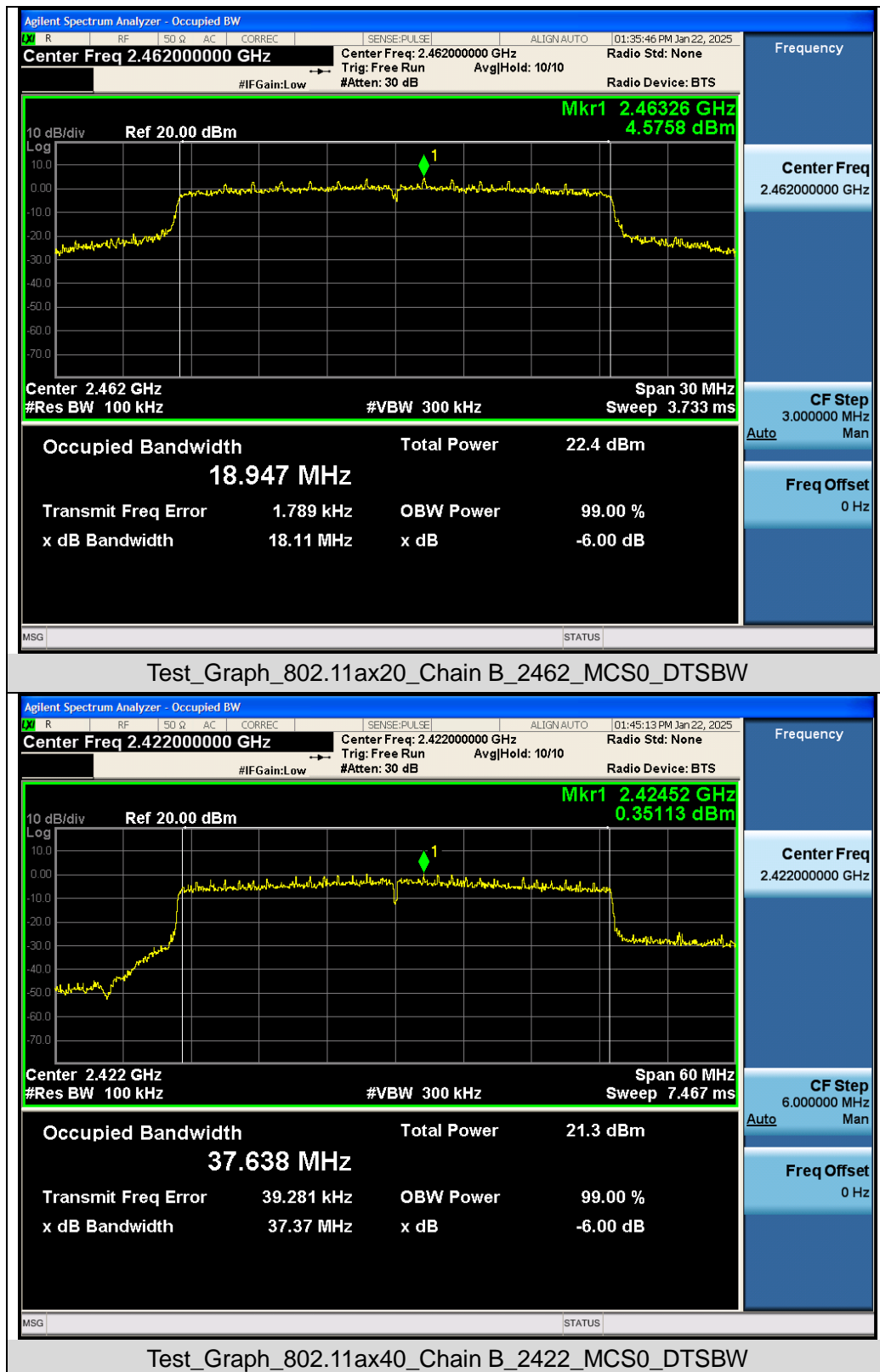


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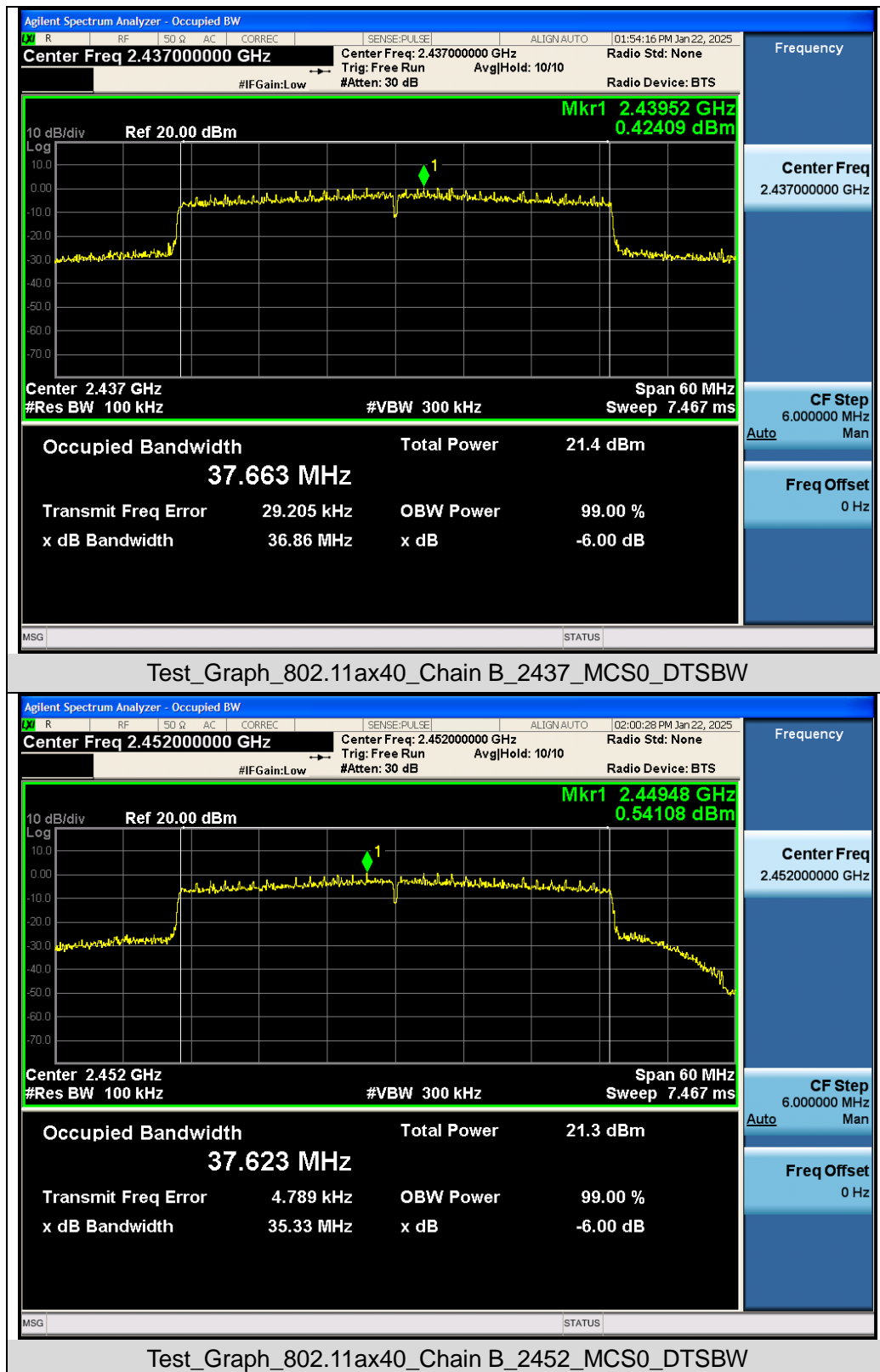
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## 9. Power Spectral Density Measurement

### 9.1 Provisions Applicable

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 9.2 Measurement Procedure

☒ For Peak power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set the RBW = 20 kHz.
4. Set the VBW  $\geq [3 \times \text{RBW}]$ .
5. Set the Span  $\geq [1.5 \times \text{DTS bandwidth}]$ .
6. Sweep time=Auto couple.
7. Detector function=Peak.
8. Trace Mode=Max hold.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of  $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$  is added to the measurement result.
10. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
11. The indicated level is the peak output power, after any corrections for external attenuators and cables.

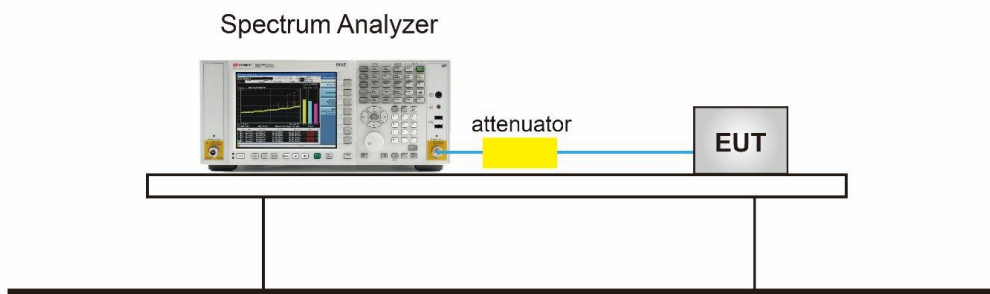
☐ For Average power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set Span to at least 1.5 times the OBW.
4. Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
5. Set VBW  $\geq [3 \times \text{RBW}]$ .
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of  $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$  is added to the measurement result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add  $[10 \log (1 / D)]$ , where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add  $[10 \log (1/0.25)] = 6 \text{ dB}$  if the duty cycle is 25%.
12. Record the test results in the report.

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### 9.3 Measurement Setup (Block Diagram of Configuration)



### 9.4 Measurement Result

| Test Data of Conducted Output Power Spectral Density-Chain A |                      |                                    |                                   |                  |              |
|--|----------------------|------------------------------------|-----------------------------------|------------------|--------------|
| Test Mode  | Test Frequency (MHz) | Power Spectral density (dBm/20kHz) | Power Spectral density (dBm/3kHz) | Limit (dBm/3kHz) | Pass or Fail |
| 802.11b  | 2412                 | 4.488                              | -3.751                            | $\leq 8$         | Pass         |
|  | 2437                 | 5.342                              | -2.897                            | $\leq 8$         | Pass         |
|  | 2462                 | 4.508                              | -3.731                            | $\leq 8$         | Pass         |
| 802.11g  | 2412                 | -0.812                             | -9.051                            | $\leq 8$         | Pass         |
|  | 2437                 | -1.177                             | -9.416                            | $\leq 8$         | Pass         |
|  | 2462                 | -0.709                             | -8.948                            | $\leq 8$         | Pass         |
| 802.11n20  | 2412                 | -1.581                             | -9.82                             | $\leq 8$         | Pass         |
|  | 2437                 | -1.429                             | -9.668                            | $\leq 8$         | Pass         |
|  | 2462                 | -1.297                             | -9.536                            | $\leq 8$         | Pass         |
| 802.11n40  | 2422                 | -3.183                             | -11.422                           | $\leq 8$         | Pass         |
|  | 2437                 | -3.006                             | -11.245                           | $\leq 8$         | Pass         |
|  | 2452                 | -3.204                             | -11.443                           | $\leq 8$         | Pass         |
| 802.11ax20   | 2412                 | -2.728                             | -10.967                           | $\leq 8$         | Pass         |
|  | 2437                 | -2.388                             | -10.627                           | $\leq 8$         | Pass         |
|  | 2462                 | -2.194                             | -10.433                           | $\leq 8$         | Pass         |
| 802.11ax40   | 2422                 | -5.568                             | -13.807                           | $\leq 8$         | Pass         |
|  | 2437                 | -5.155                             | -13.394                           | $\leq 8$         | Pass         |
|  | 2452                 | -5.392                             | -13.631                           | $\leq 8$         | Pass         |

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| Test Data of Conducted Output Power Spectral Density-Chain B |                      |                                    |                                   |                  |              |
|--|----------------------|------------------------------------|-----------------------------------|------------------|--------------|
| Test Mode  | Test Frequency (MHz) | Power Spectral density (dBm/20kHz) | Power Spectral density (dBm/3kHz) | Limit (dBm/3kHz) | Pass or Fail |
| 802.11b  | 2412                 | 4.328                              | -3.911                            | ≤8               | Pass         |
|  | 2437                 | 5.378                              | -2.861                            | ≤8               | Pass         |
|  | 2462                 | 4.958                              | -3.281                            | ≤8               | Pass         |
| 802.11g  | 2412                 | -0.405                             | -8.644                            | ≤8               | Pass         |
|  | 2437                 | 0.359                              | -7.88                             | ≤8               | Pass         |
|  | 2462                 | -0.206                             | -8.445                            | ≤8               | Pass         |
| 802.11n20  | 2412                 | -1.212                             | -9.451                            | ≤8               | Pass         |
|  | 2437                 | -0.634                             | -8.873                            | ≤8               | Pass         |
|  | 2462                 | -0.495                             | -8.734                            | ≤8               | Pass         |
| 802.11n40  | 2422                 | -4.011                             | -12.25                            | ≤8               | Pass         |
|  | 2437                 | -4.320                             | -12.559                           | ≤8               | Pass         |
|  | 2452                 | -3.273                             | -11.512                           | ≤8               | Pass         |
| 802.11ax20   | 2412                 | -2.279                             | -10.518                           | ≤8               | Pass         |
|  | 2437                 | -1.738                             | -9.977                            | ≤8               | Pass         |
|  | 2462                 | -1.821                             | -10.06                            | ≤8               | Pass         |
| 802.11ax40   | 2422                 | -5.125                             | -13.364                           | ≤8               | Pass         |
|  | 2437                 | -4.589                             | -12.828                           | ≤8               | Pass         |
|  | 2452                 | -4.671                             | -12.91                            | ≤8               | Pass         |

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| Test Data of Conducted Output Power Spectral Density-MIMO |                      |                                    |                                   |                  |              |
|---|----------------------|------------------------------------|-----------------------------------|------------------|--------------|
| Test Mode   | Test Frequency (MHz) | Power Spectral density (dBm/20kHz) | Power Spectral density (dBm/3kHz) | Limit (dBm/3kHz) | Pass or Fail |
| 802.11n20   | 2412                 | 1.618                              | -6.621                            | $\leq 7.56$      | Pass         |
|   | 2437                 | 1.997                              | -6.242                            | $\leq 7.56$      | Pass         |
|   | 2462                 | 2.133                              | -6.106                            | $\leq 7.56$      | Pass         |
| 802.11n40   | 2422                 | -0.567                             | -8.806                            | $\leq 7.56$      | Pass         |
|   | 2437                 | -0.603                             | -8.842                            | $\leq 7.56$      | Pass         |
|   | 2452                 | -0.228                             | -8.467                            | $\leq 7.56$      | Pass         |
| 802.11ax20  | 2412                 | 0.513                              | -7.726                            | $\leq 7.56$      | Pass         |
|   | 2437                 | 0.959                              | -7.280                            | $\leq 7.56$      | Pass         |
|   | 2462                 | 1.007                              | -7.232                            | $\leq 7.56$      | Pass         |
| 802.11ax40  | 2422                 | -2.331                             | -10.570                           | $\leq 7.56$      | Pass         |
|   | 2437                 | -1.852                             | -10.091                           | $\leq 7.56$      | Pass         |
|   | 2452                 | -2.006                             | -10.245                           | $\leq 7.56$      | Pass         |

Note:

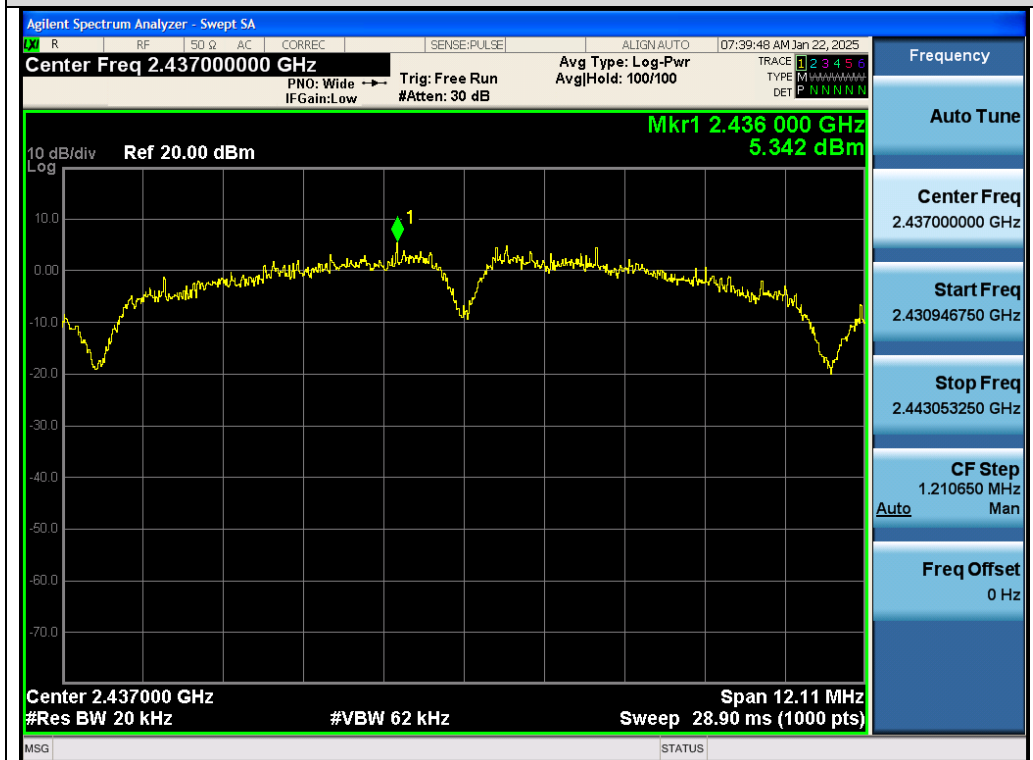
- The Total Power Spectral Density (dBm) =  $10 \cdot \log \{10^{(\text{Chain A PSD} / 10)} + 10^{(\text{Chain B PSD} / 10)}\}$ .

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### Test Graphs of Conducted Output Power Spectral Density

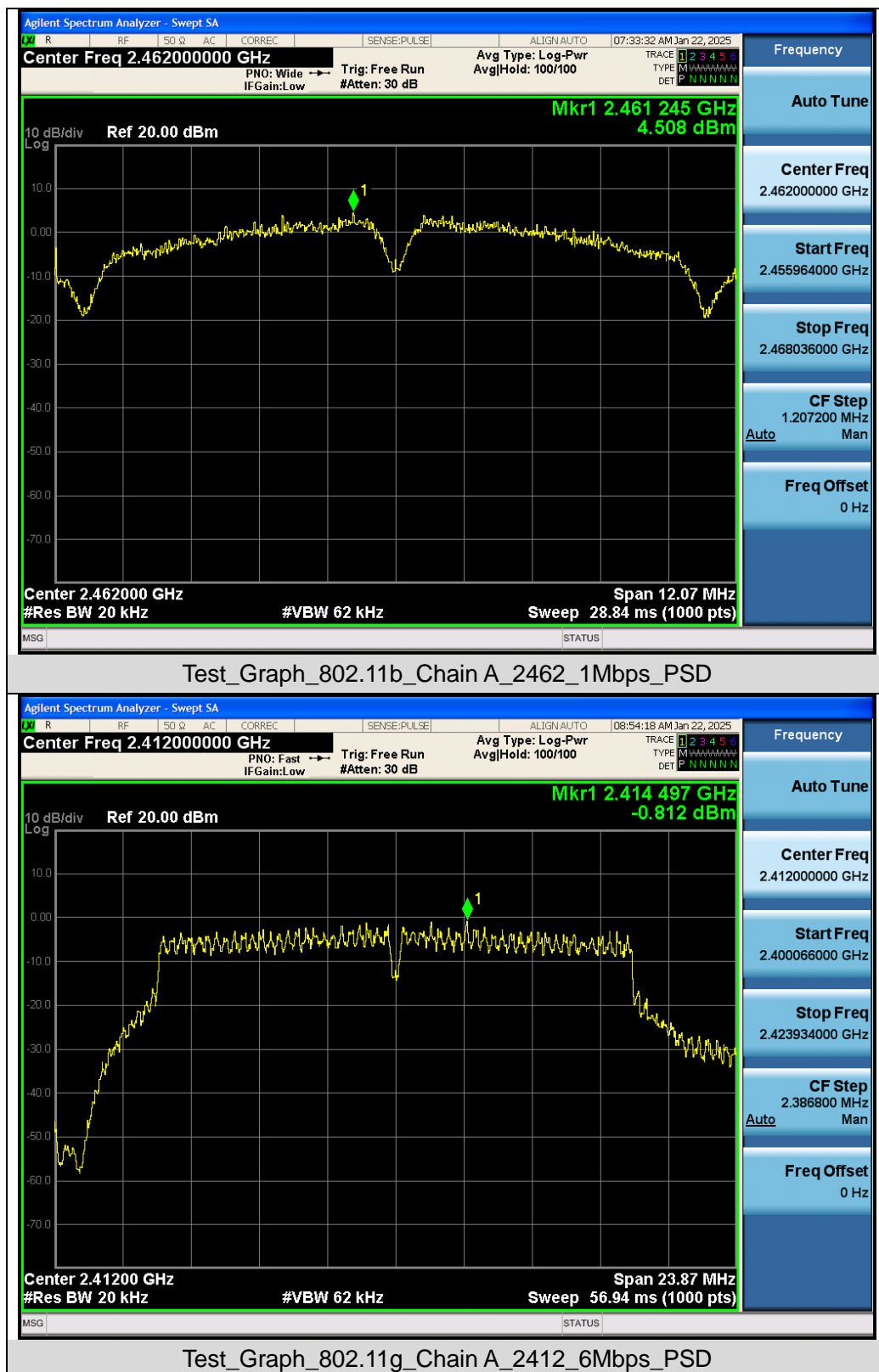


Test\_Graph\_802.11b\_Chain A\_2412\_1Mbps\_PSD



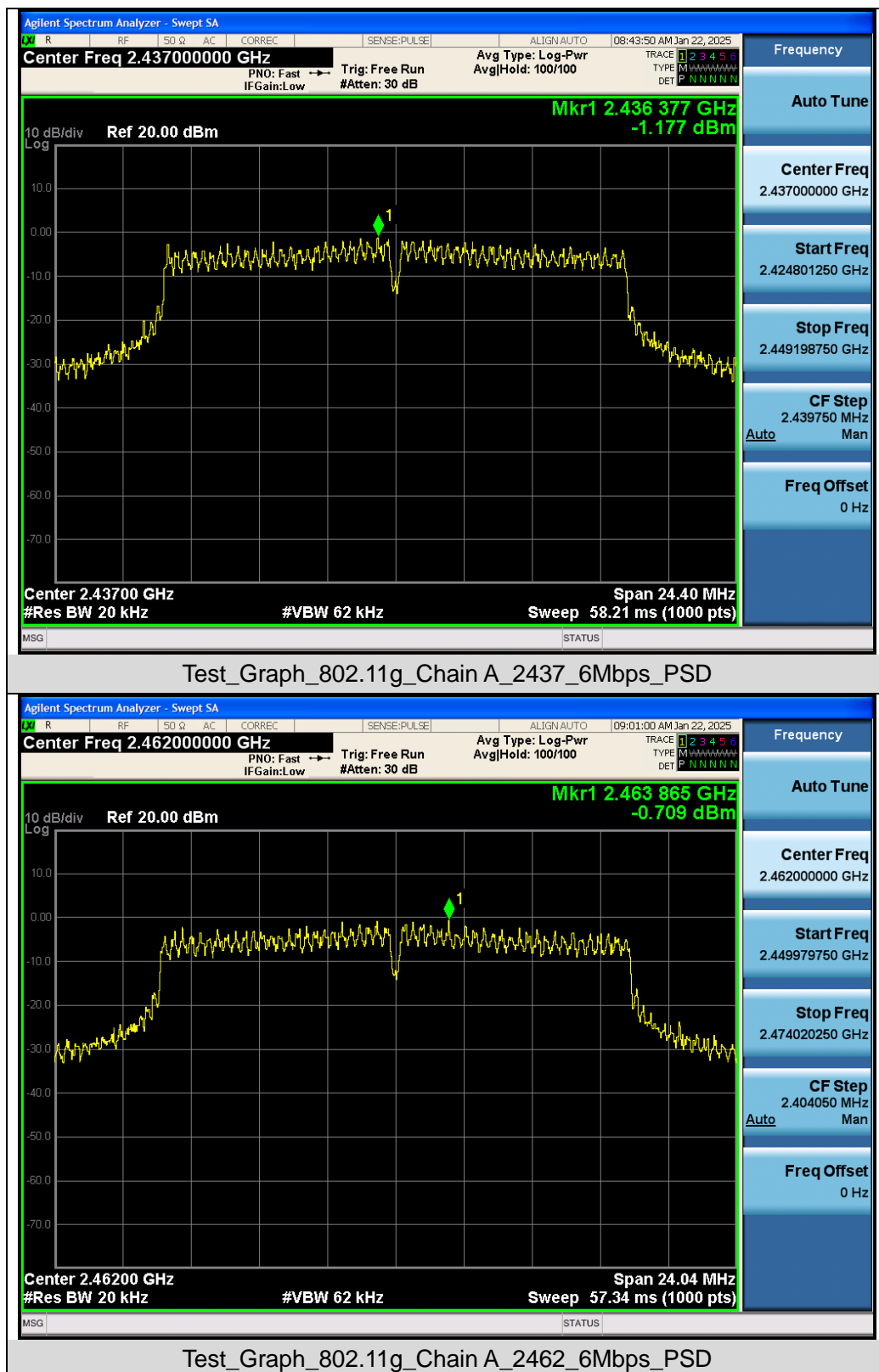
Test\_Graph\_802.11b\_Chain A\_2437\_1Mbps\_PSD

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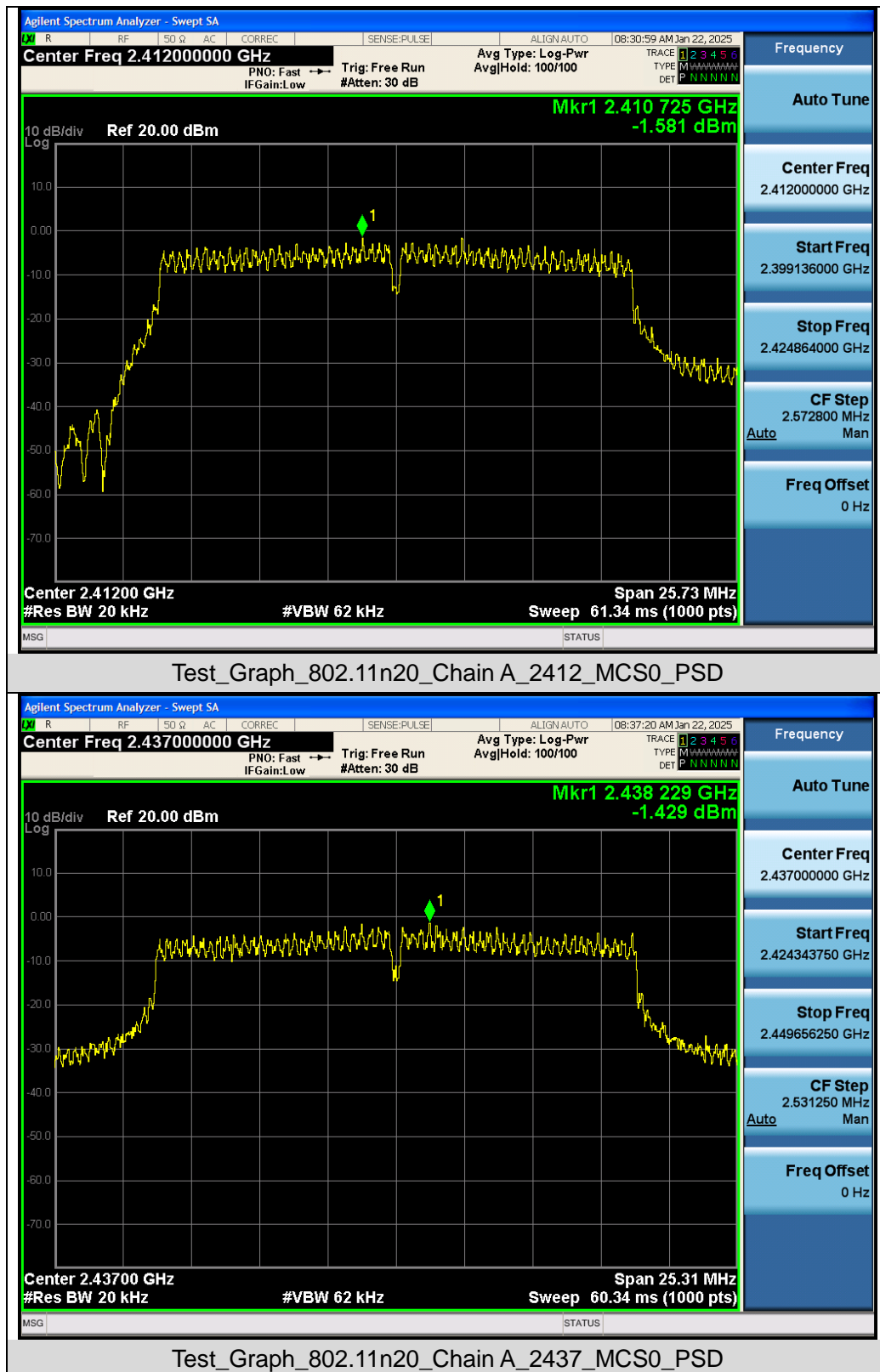
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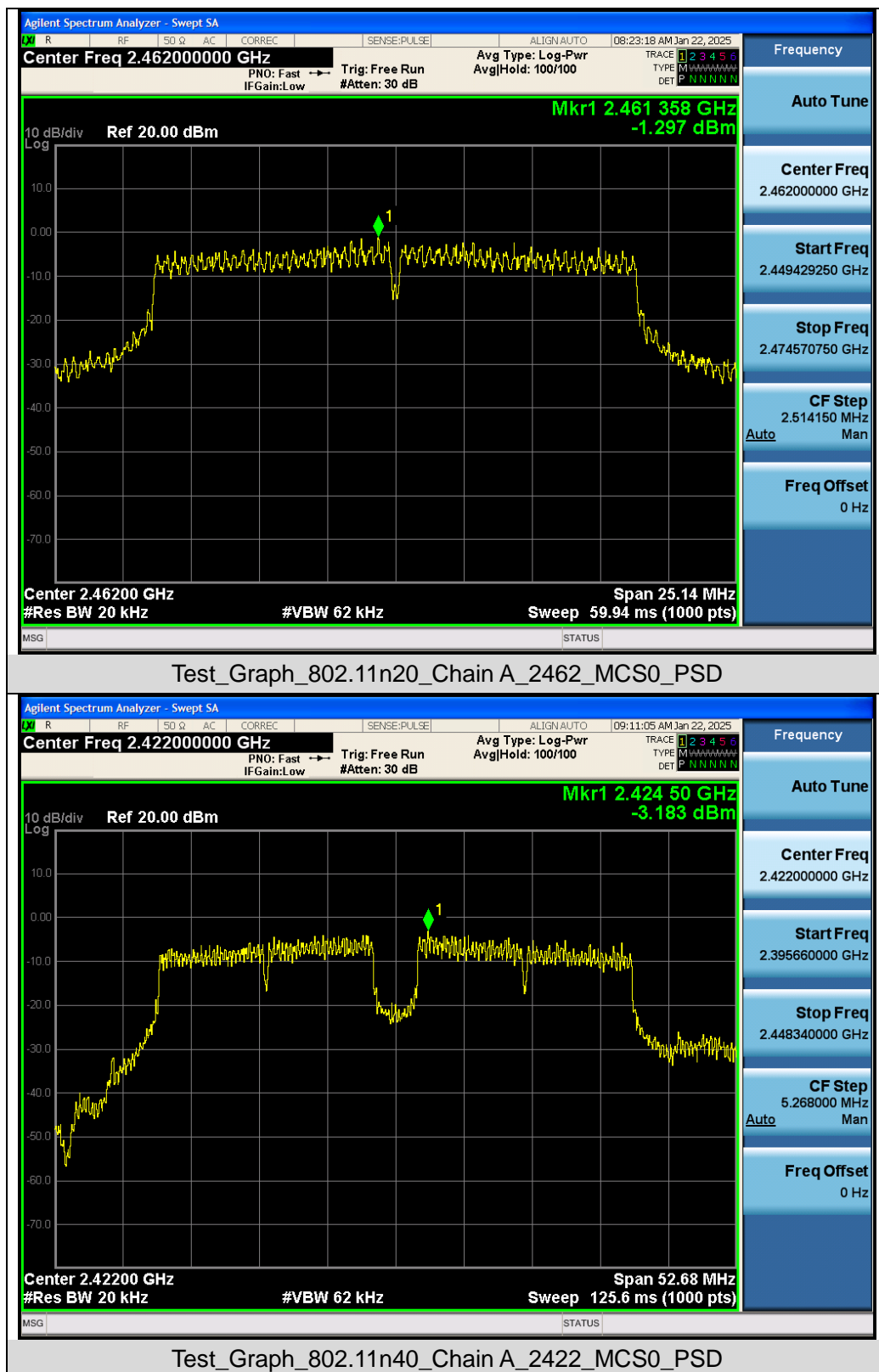


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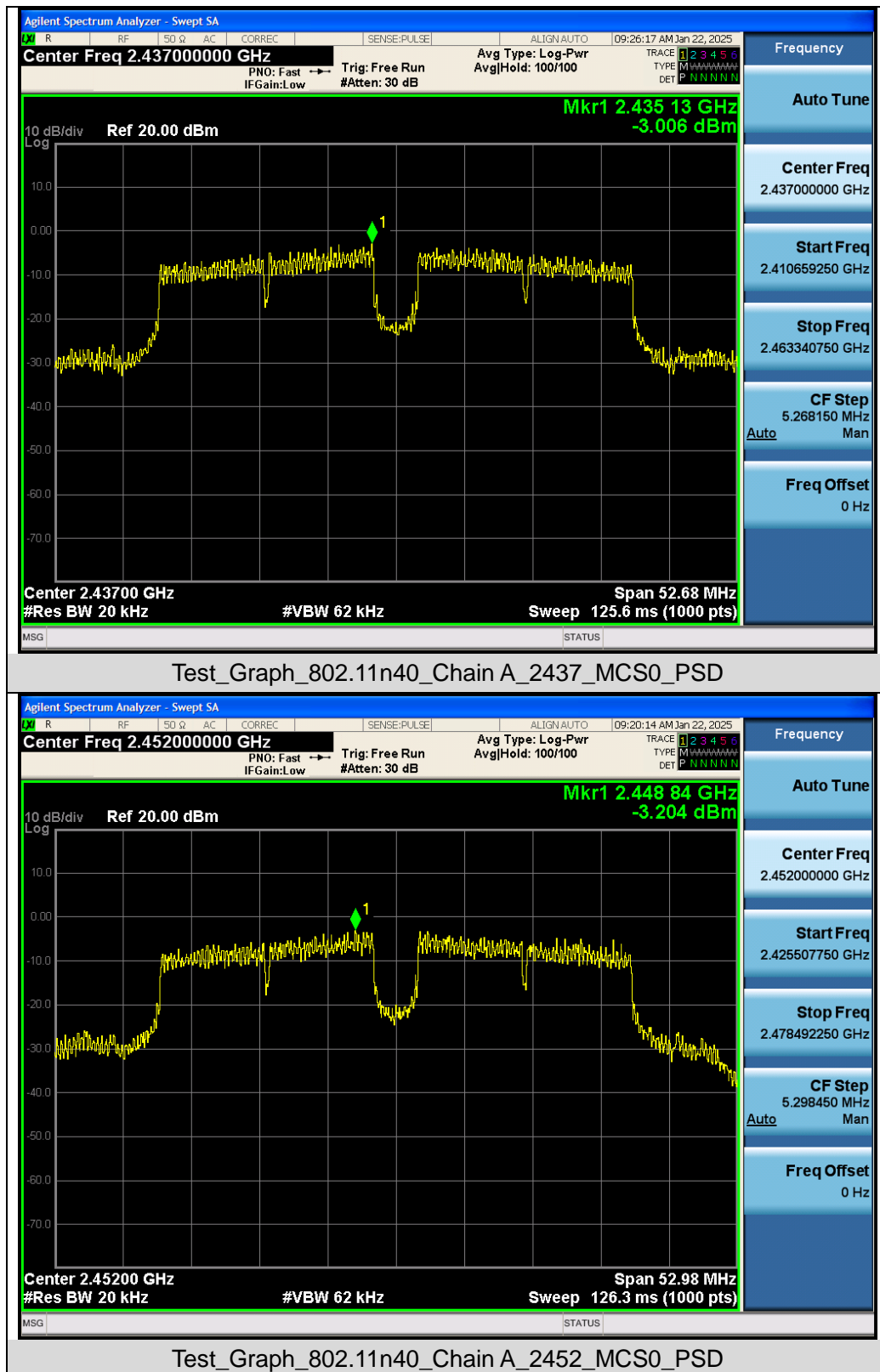


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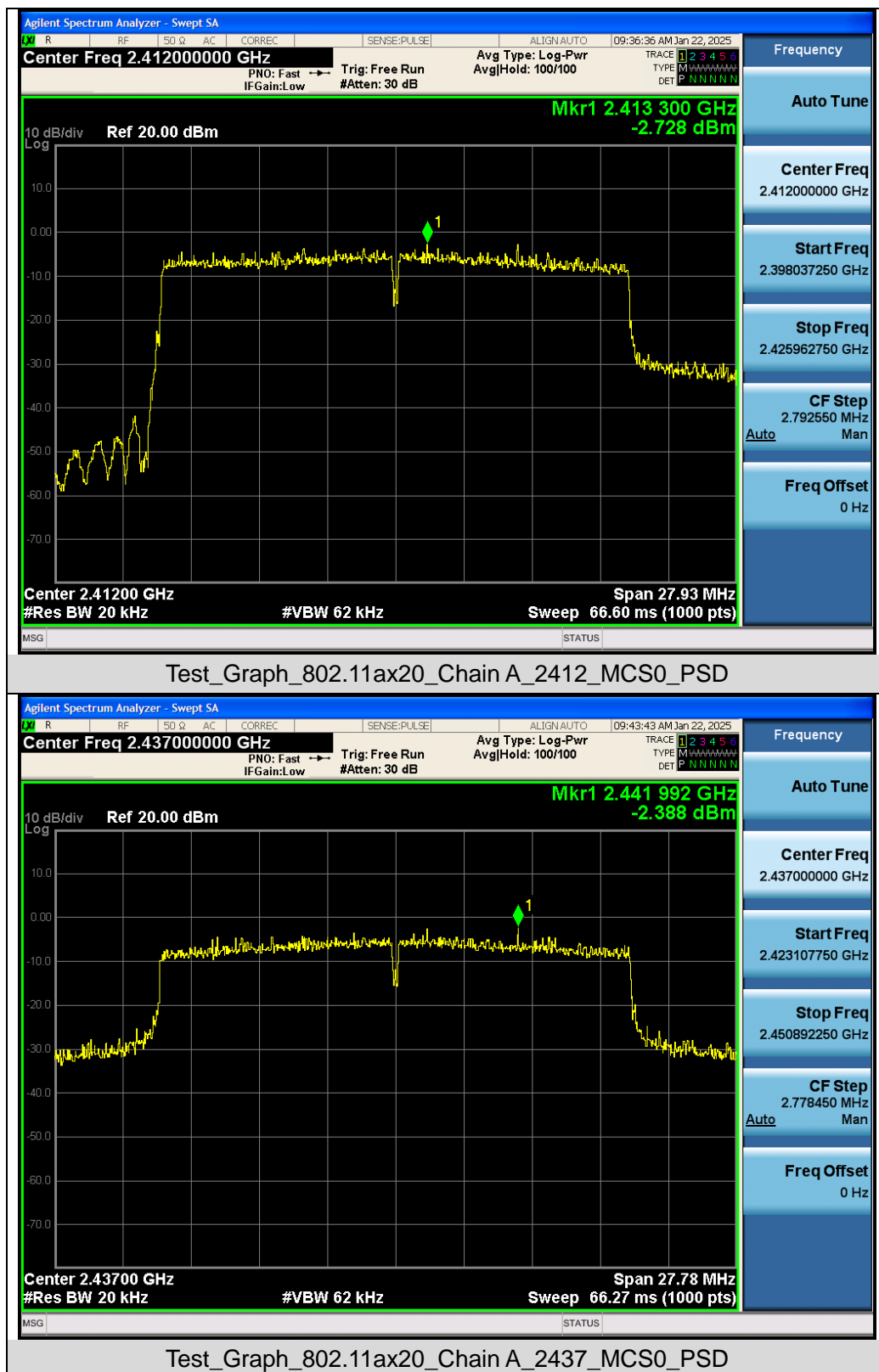
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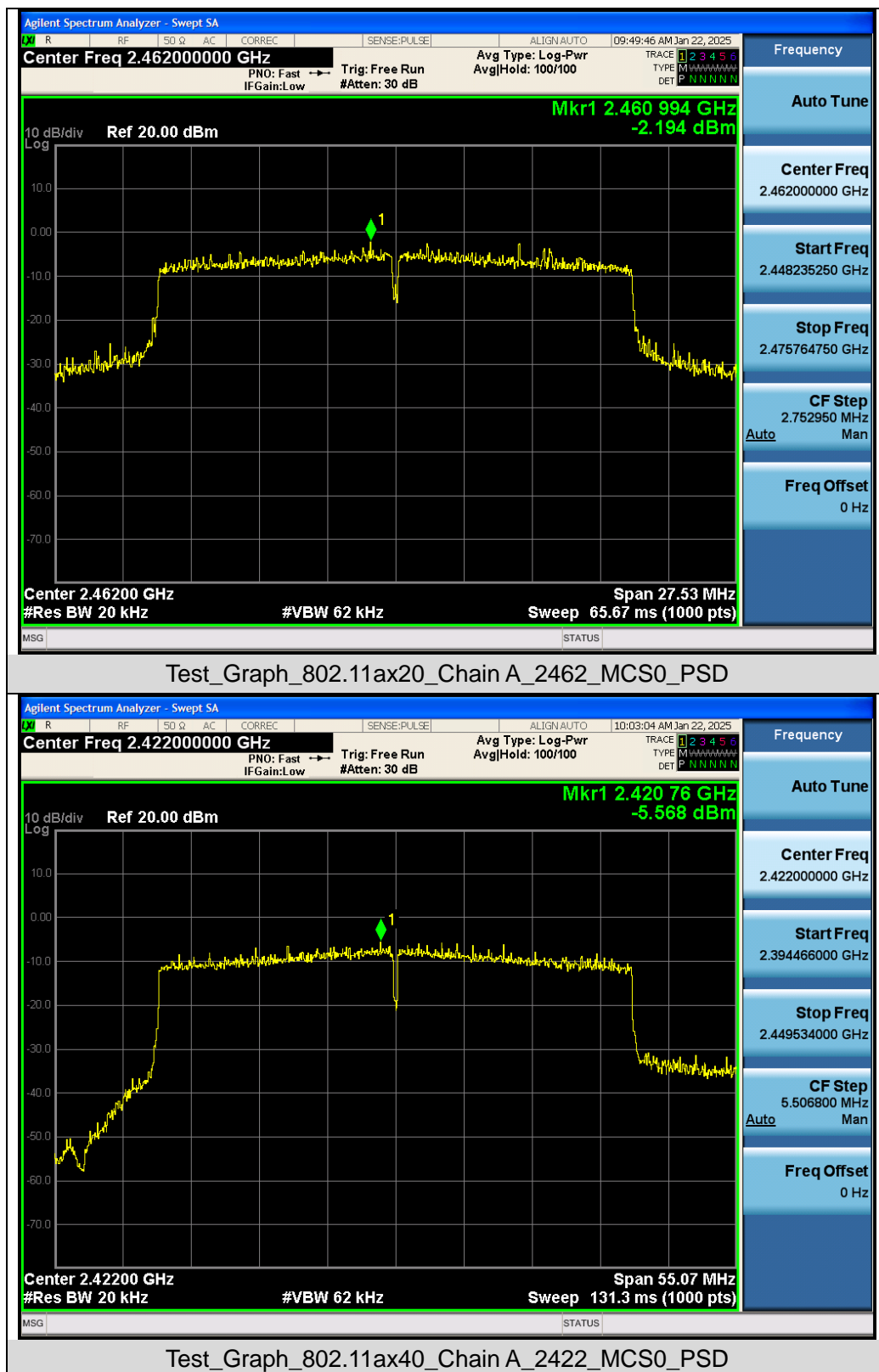
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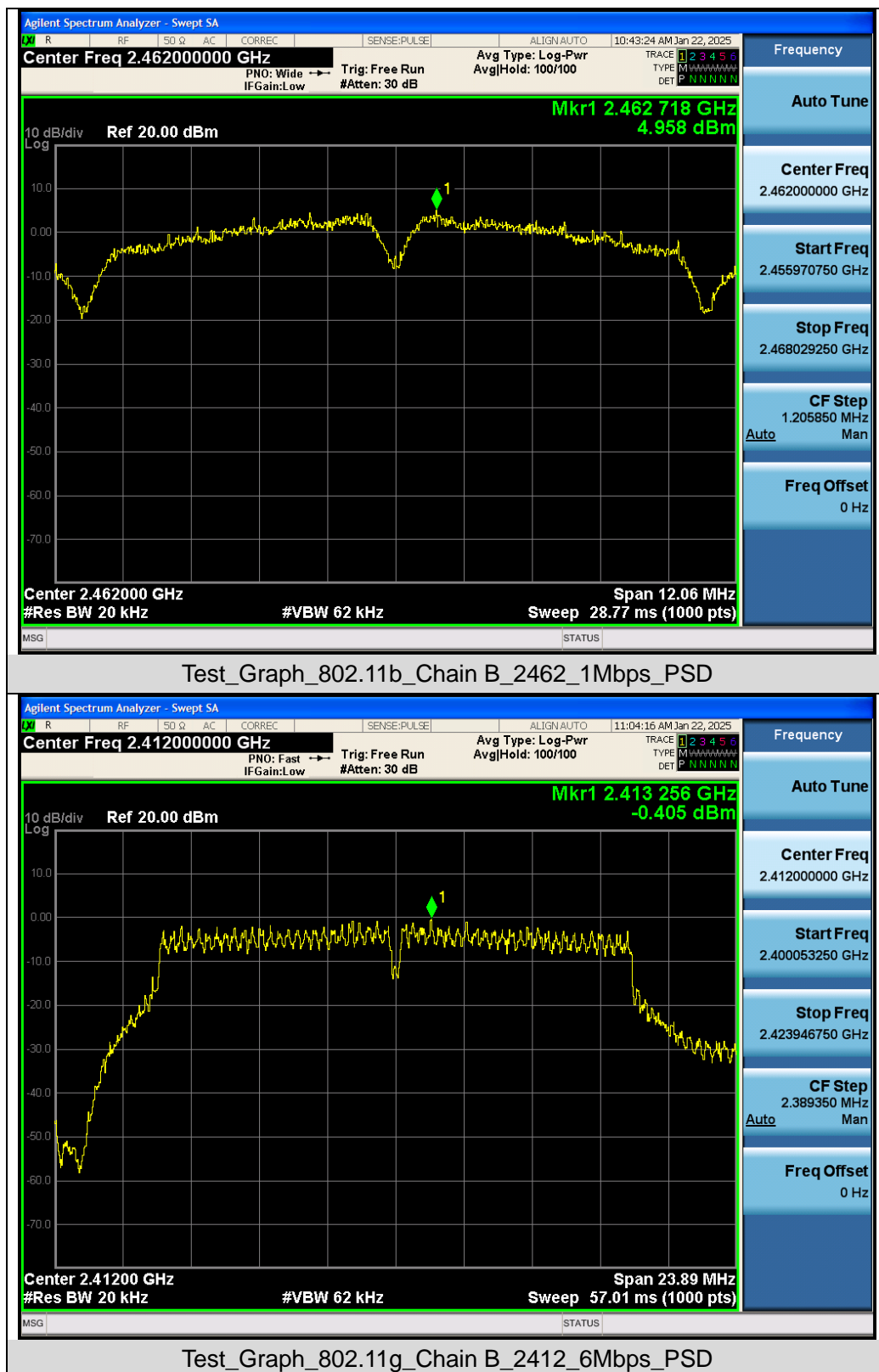


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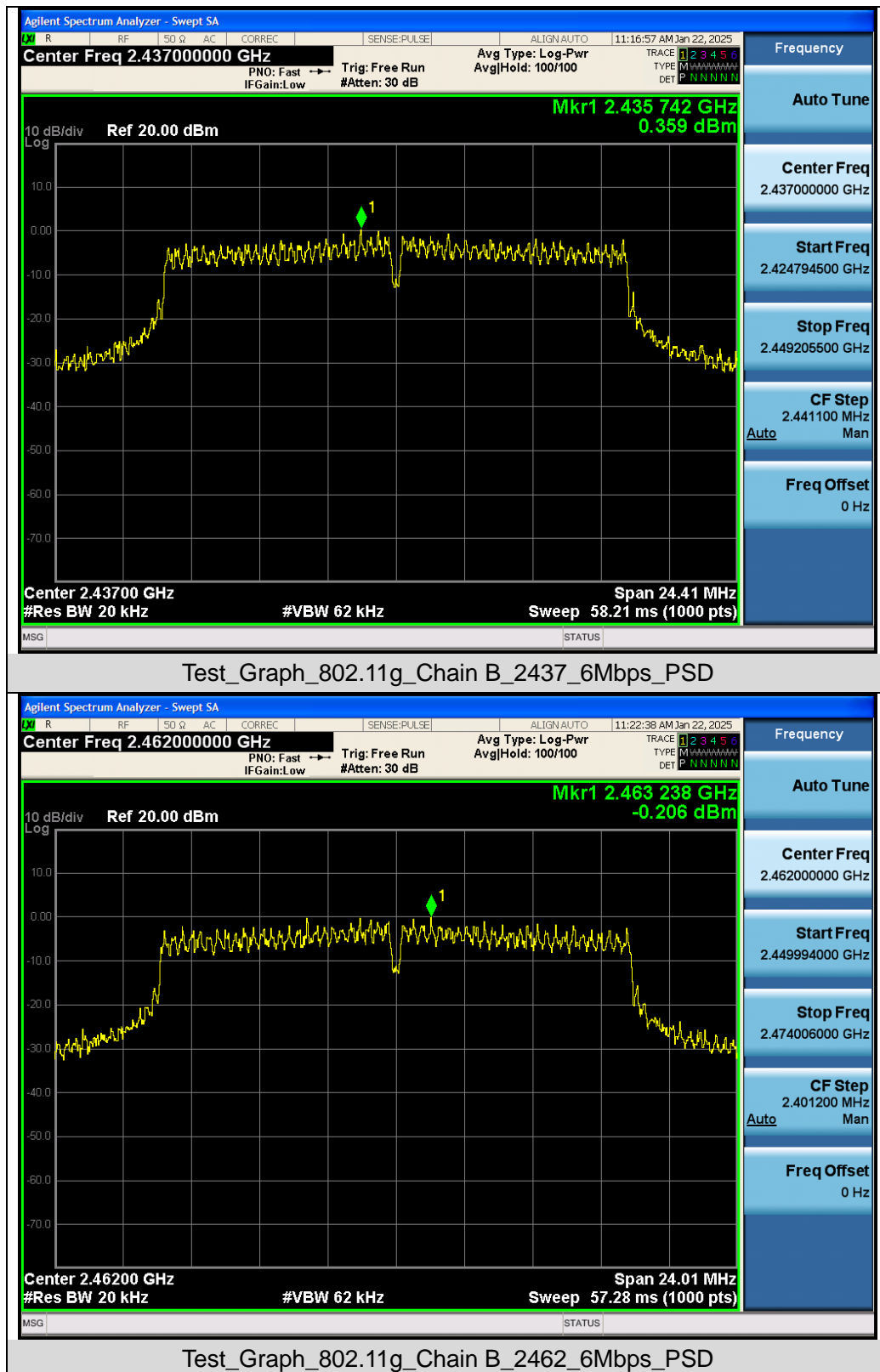


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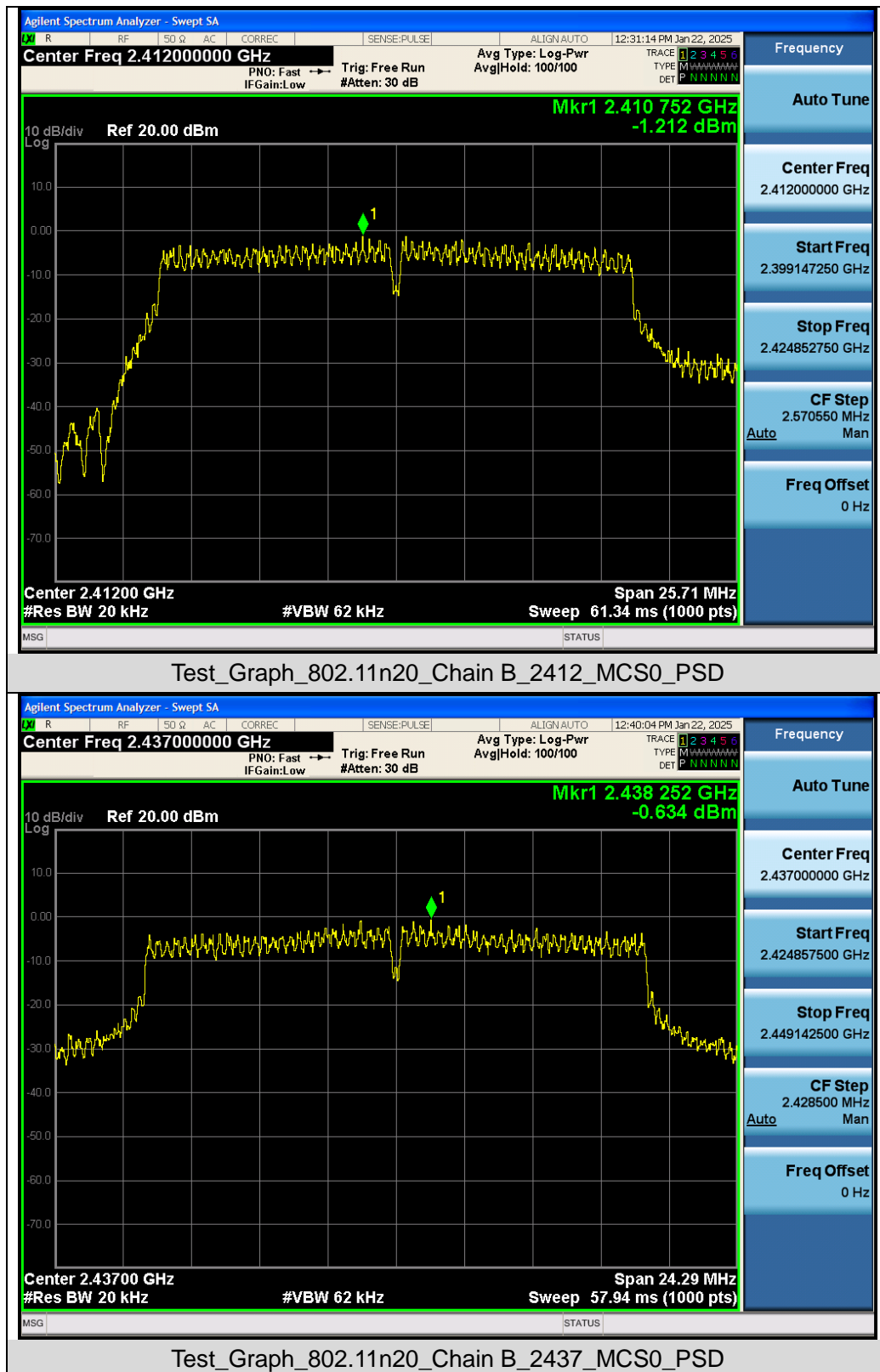


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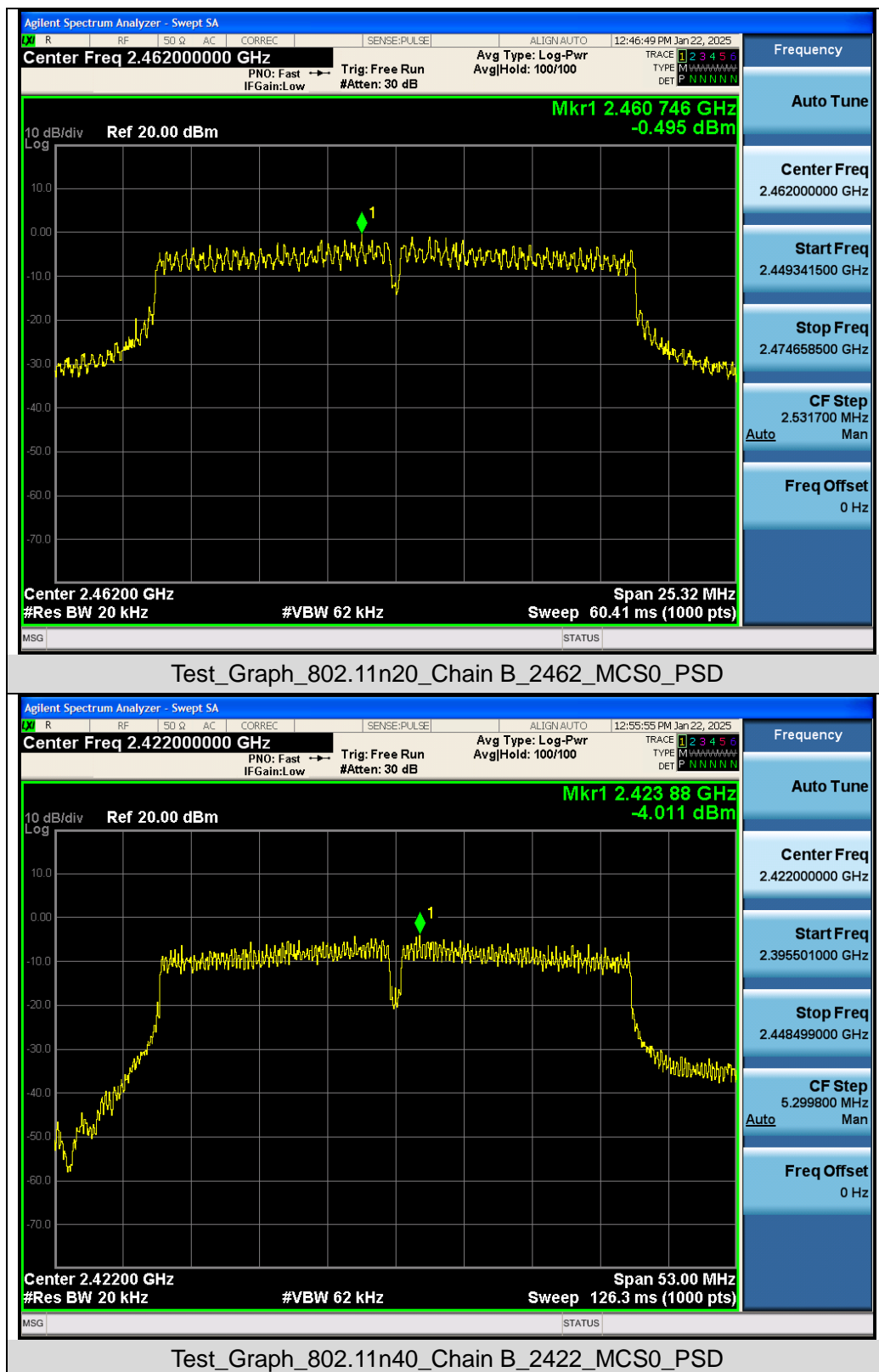
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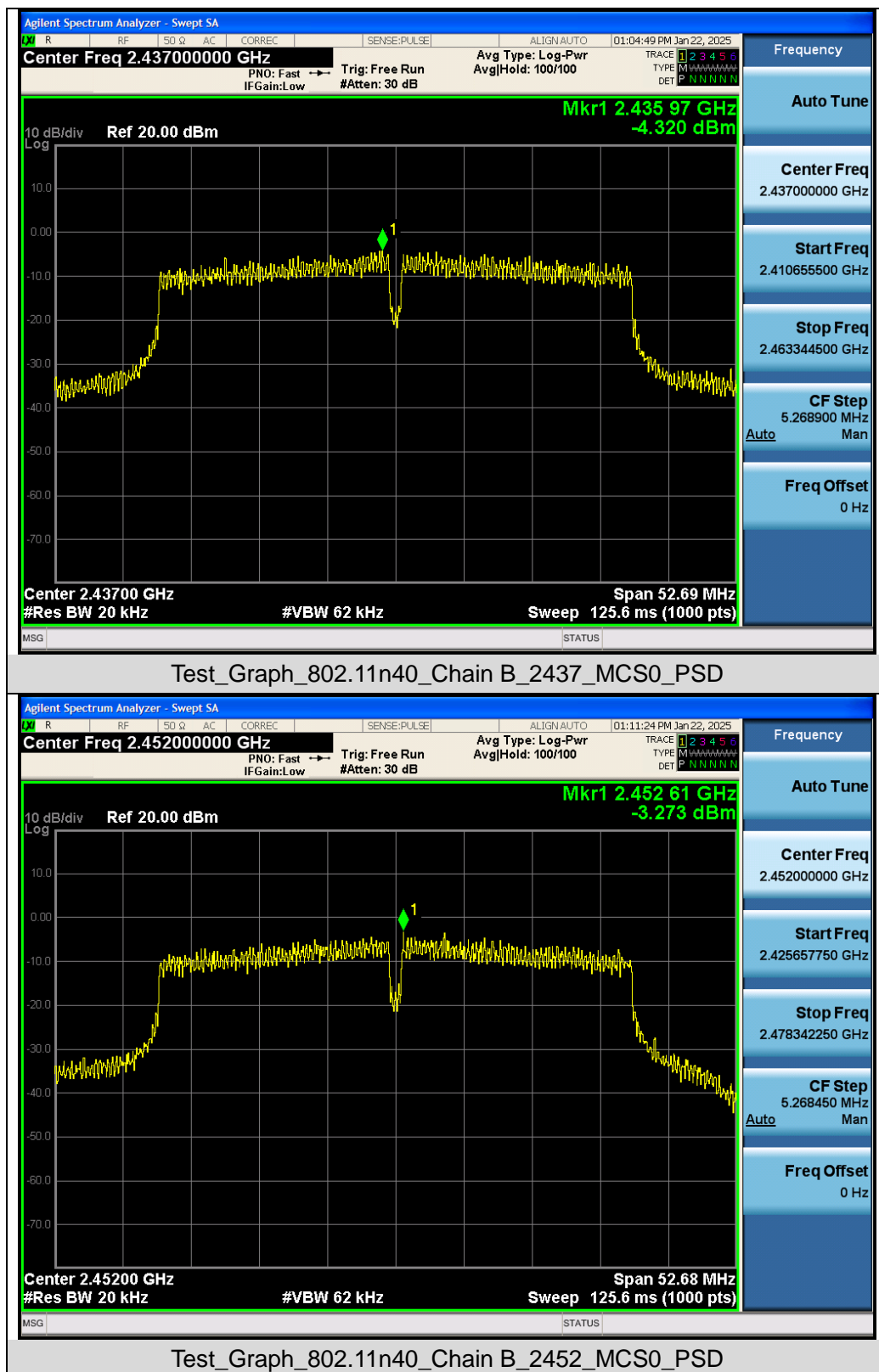


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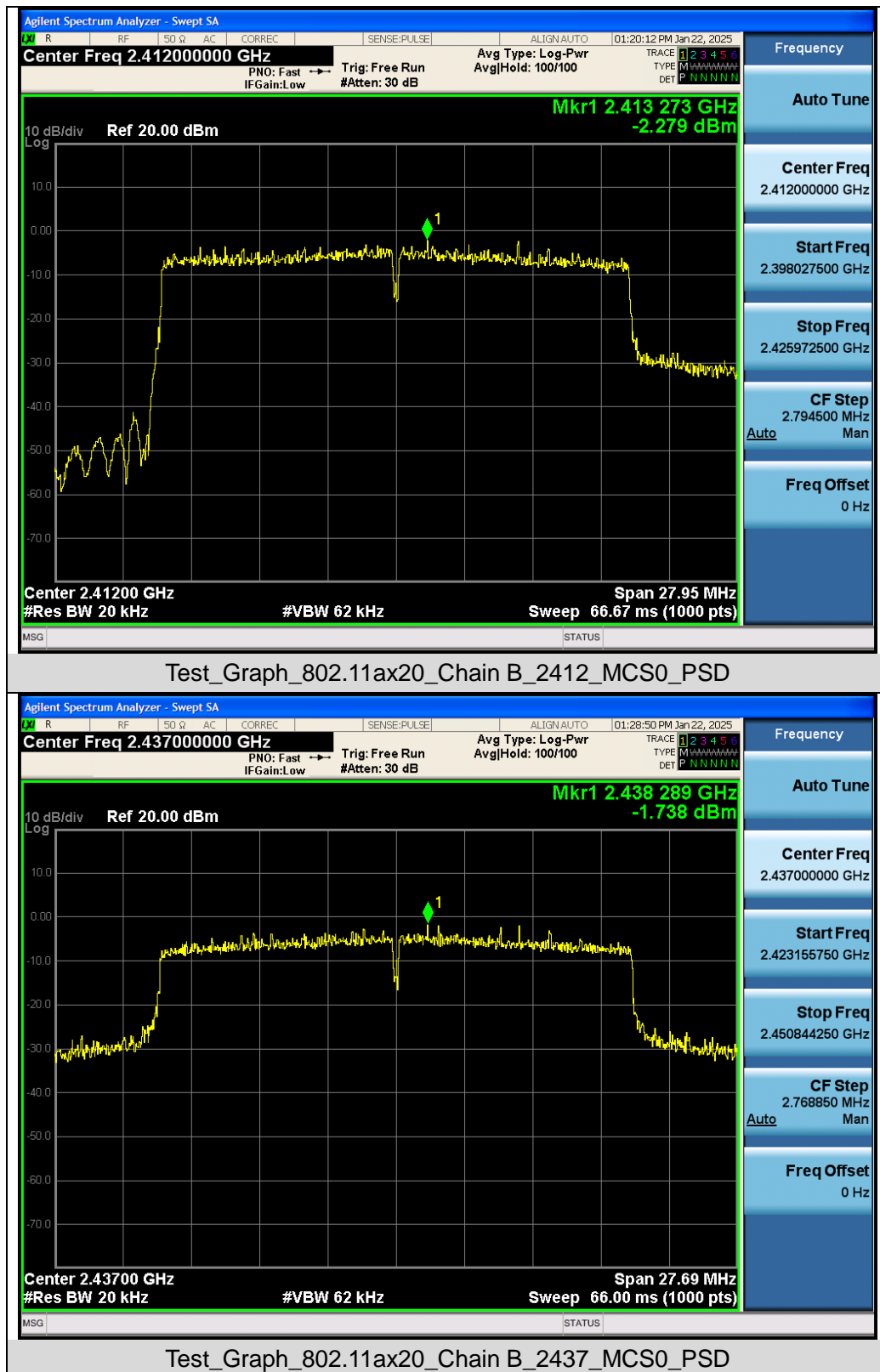


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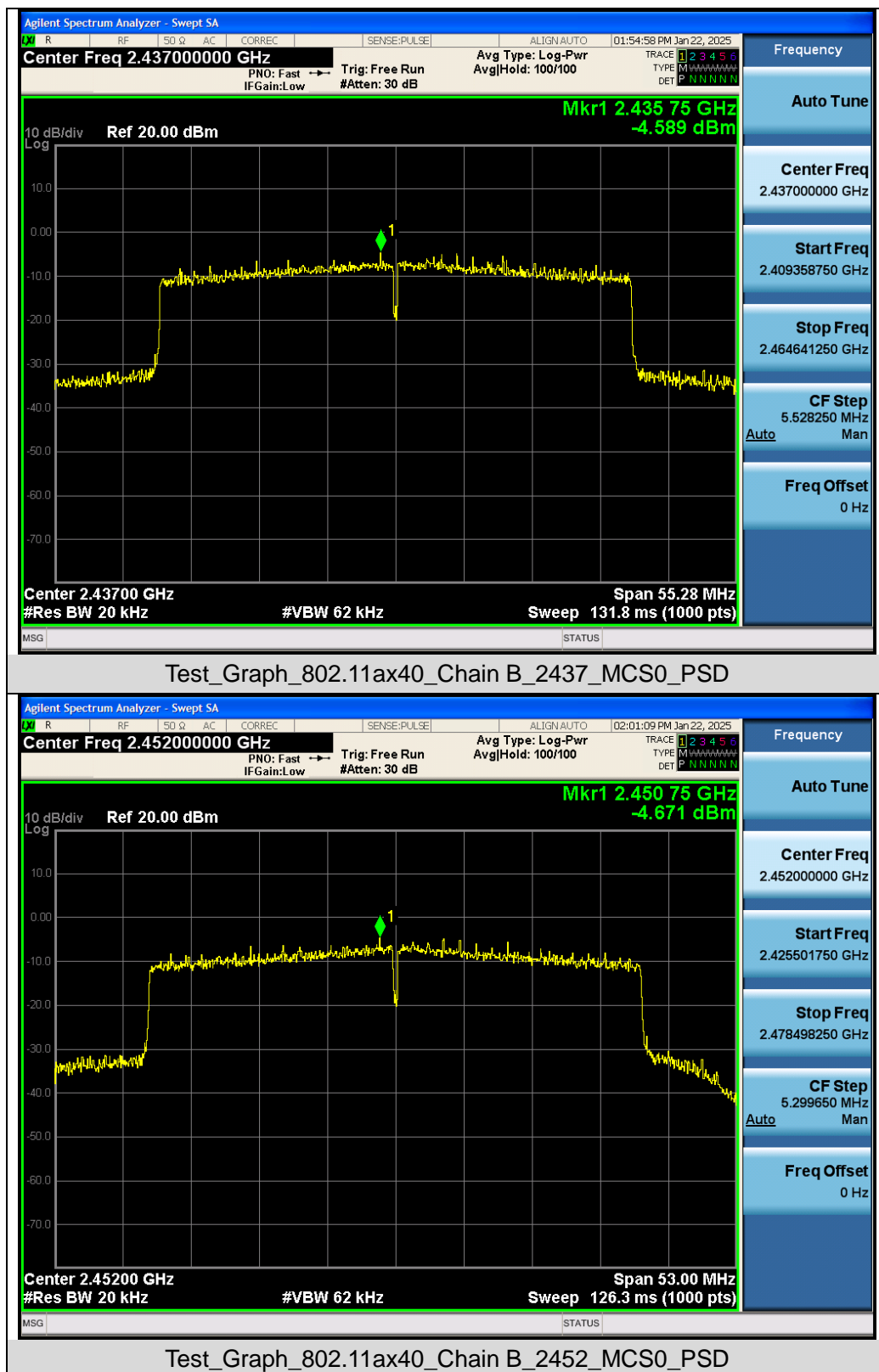
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## 10. Conducted Band Edge and Out-of-Band Emissions

### 10.1 Provisions Applicable

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

### 10.2 Measurement Procedure

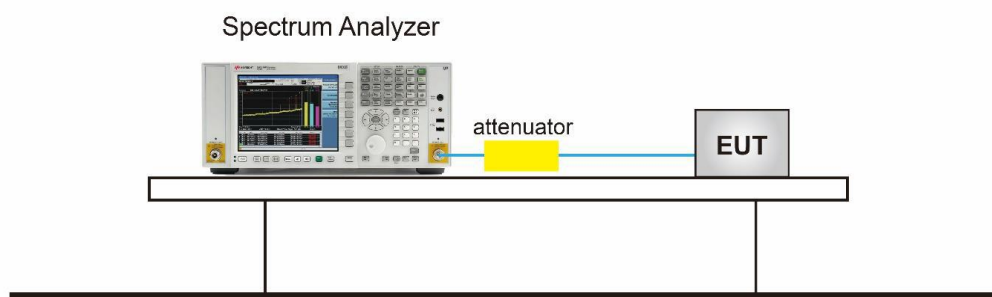
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- Step 1: Measurement Procedure In-Band Reference Level
  1. Set instrument center frequency to DTS channel center frequency.
  2. Set the span to  $\geq 1.5$  times the DTS bandwidth.
  3. Set the RBW = 100 kHz.
  4. Set the VBW  $\geq 3 \times$  RBW.
  5. Detector = peak.
  6. Sweep time = auto couple.
  7. Trace mode = max hold.
  8. Allow trace to fully stabilize.
  9. Use the peak marker function to determine the maximum PSD level.
  10. Note that the channel found to contain the maximum PSD level can be used to establish the reference level.
  11. For reference level values, please refer to DTS bandwidth test.
- Step 2: Measurement Procedure Out of Band Emission
  1. Set RBW = 100 kHz.
  2. Set VBW  $\geq 300$  kHz.
  3. Detector = peak.
  4. Sweep = auto couple.
  5. Trace Mode = max hold.
  6. Allow trace to fully stabilize.
  7. Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

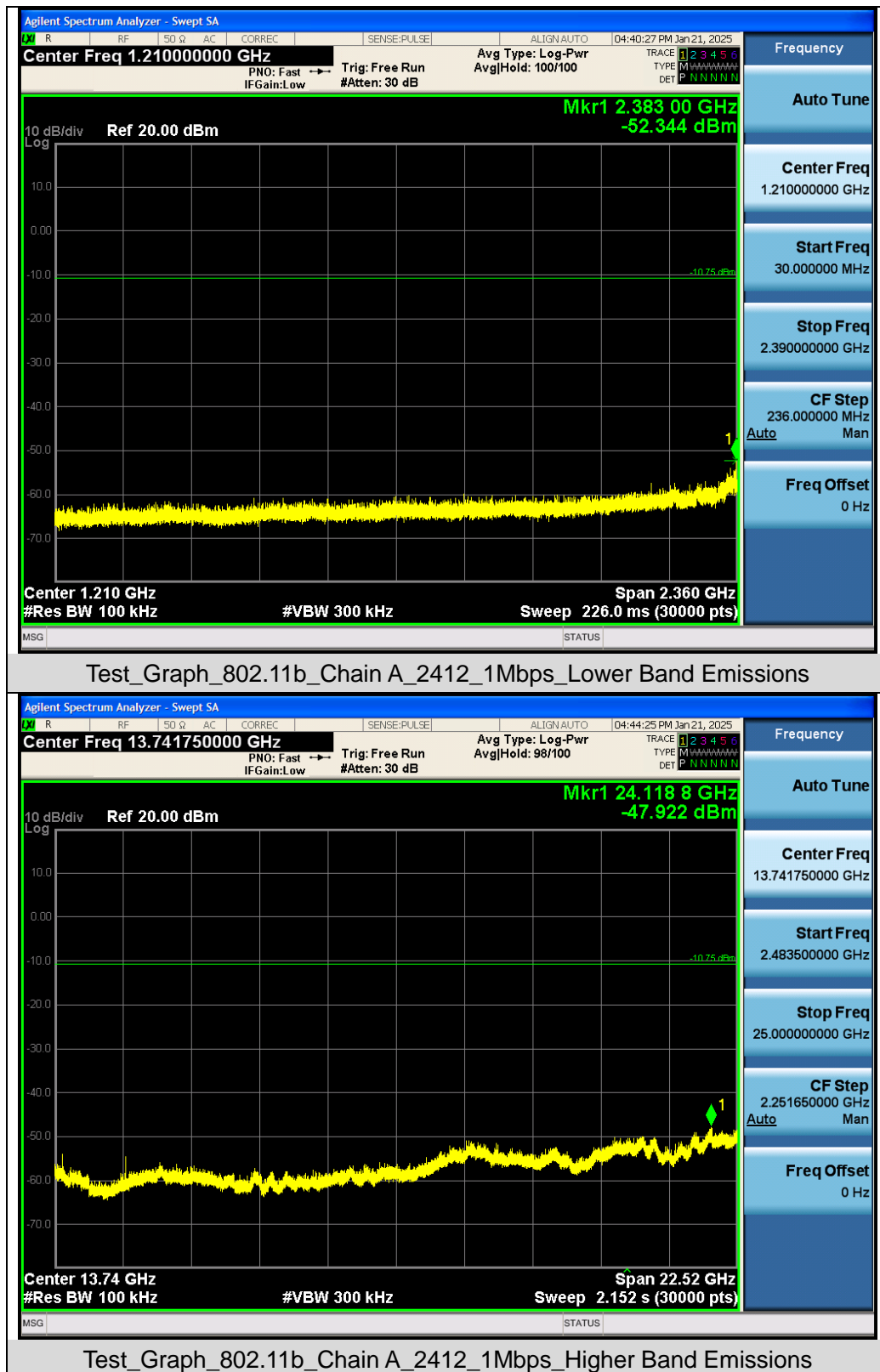
### 10.3 Measurement Setup (Block Diagram of Configuration)



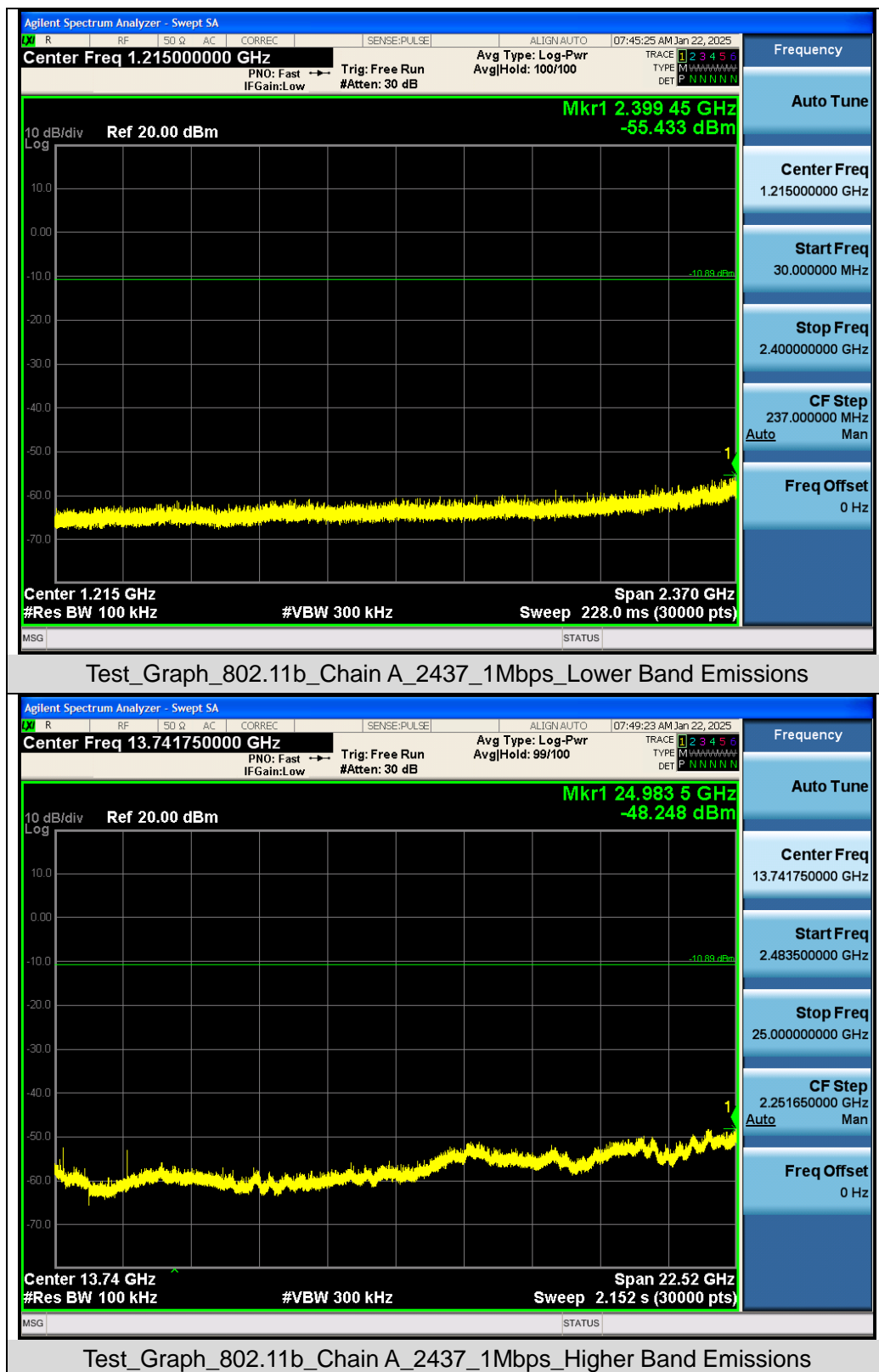
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## 10.4 Measurement Result

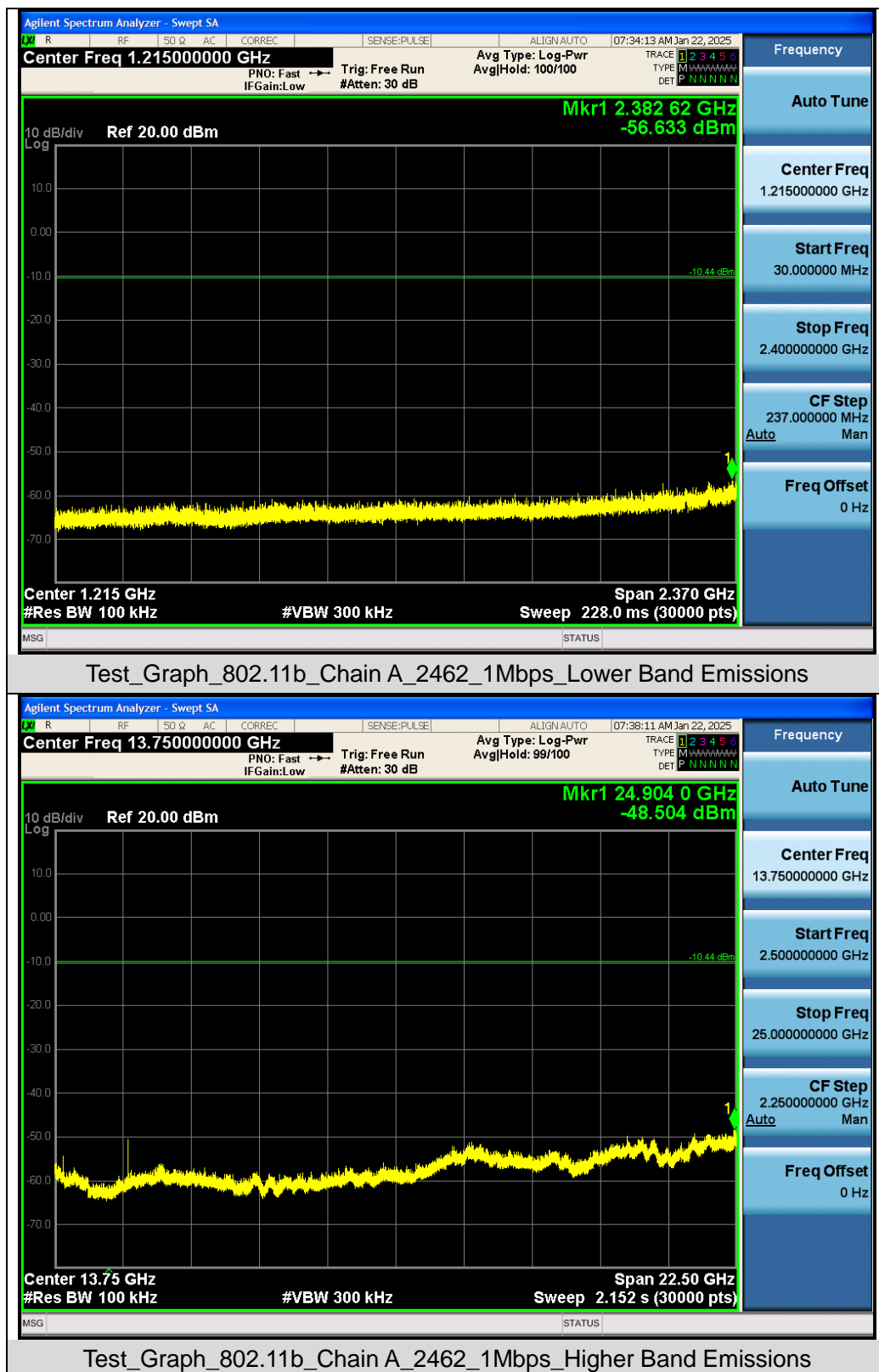
### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



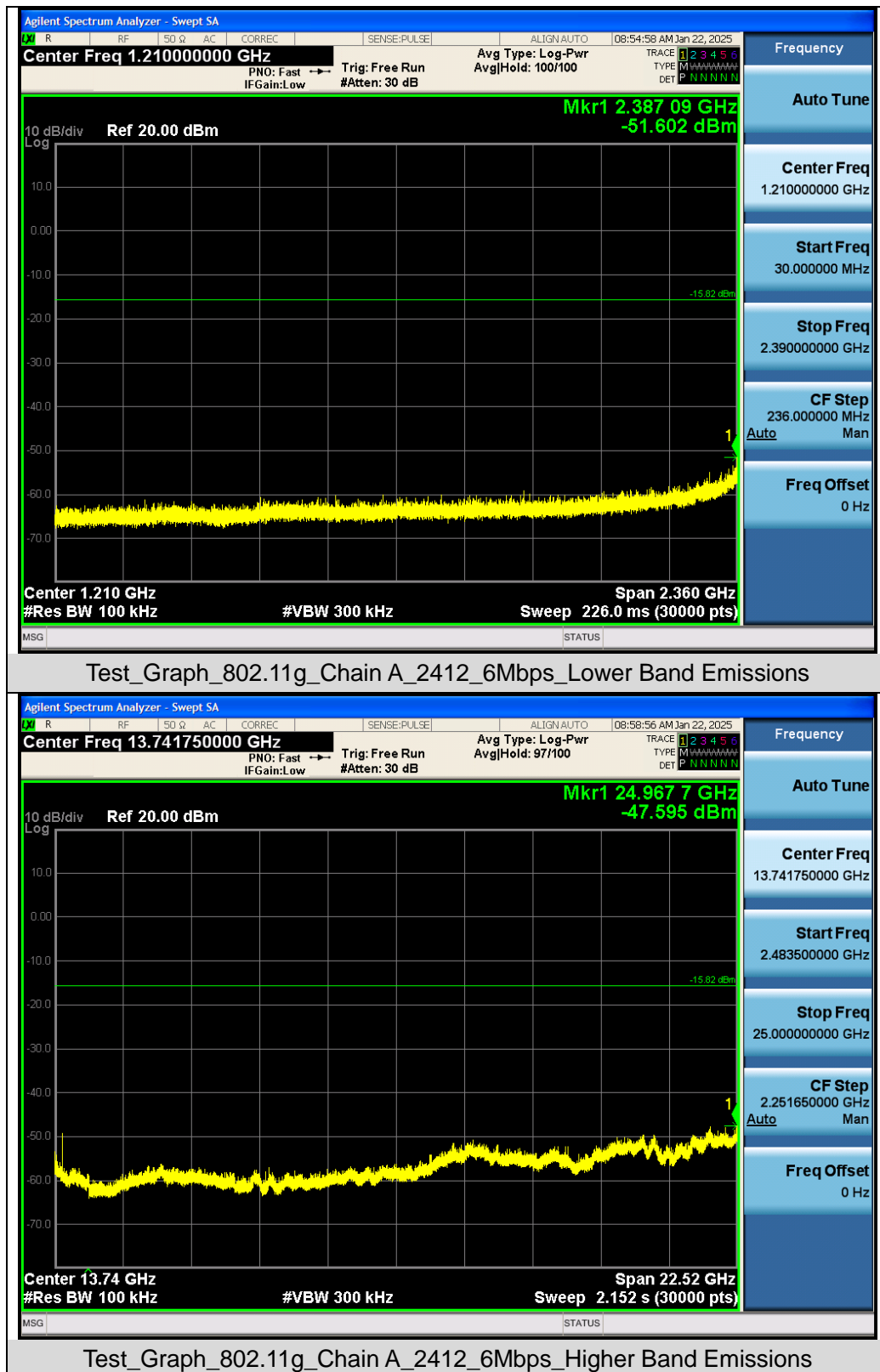
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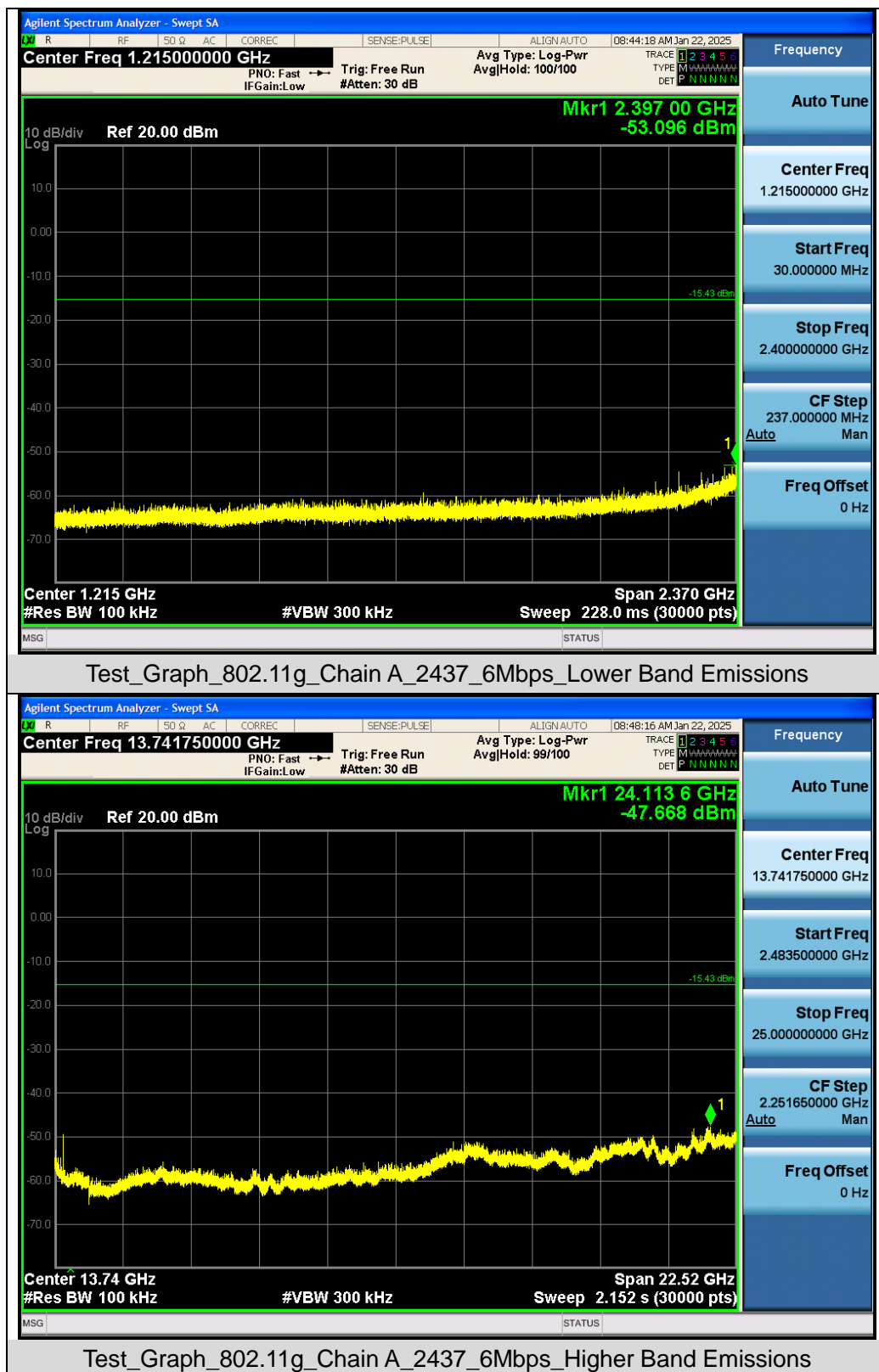


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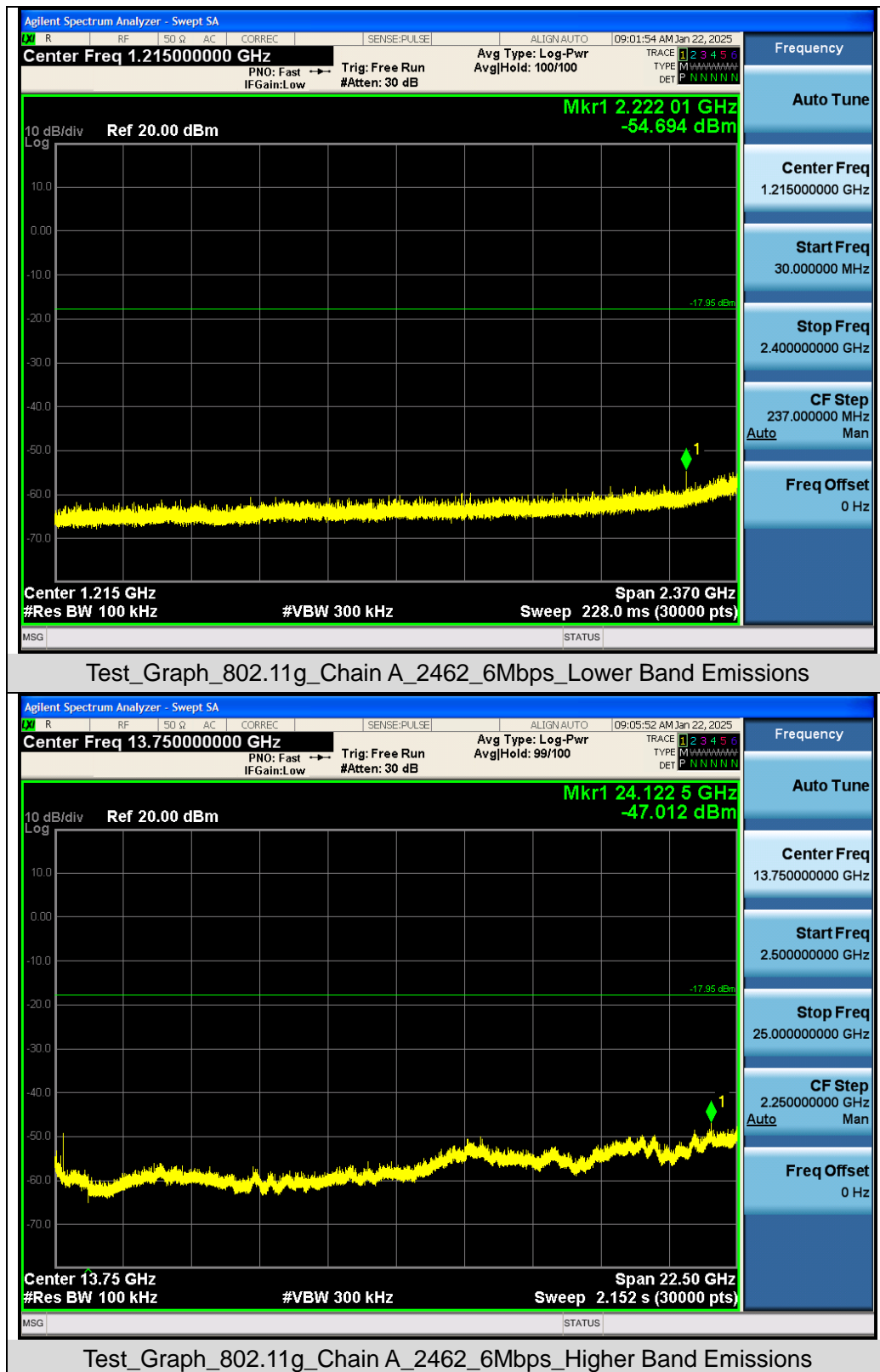
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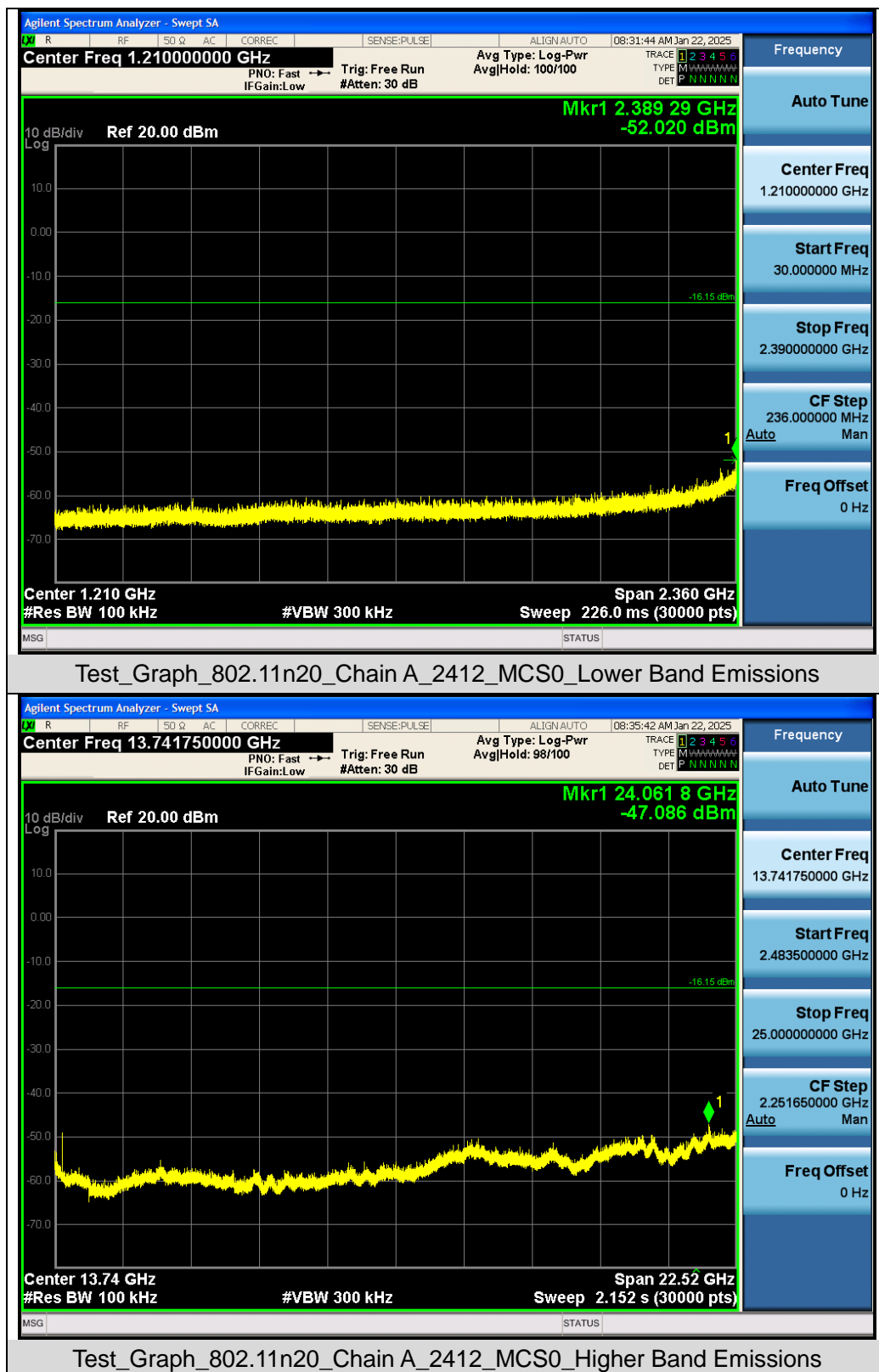


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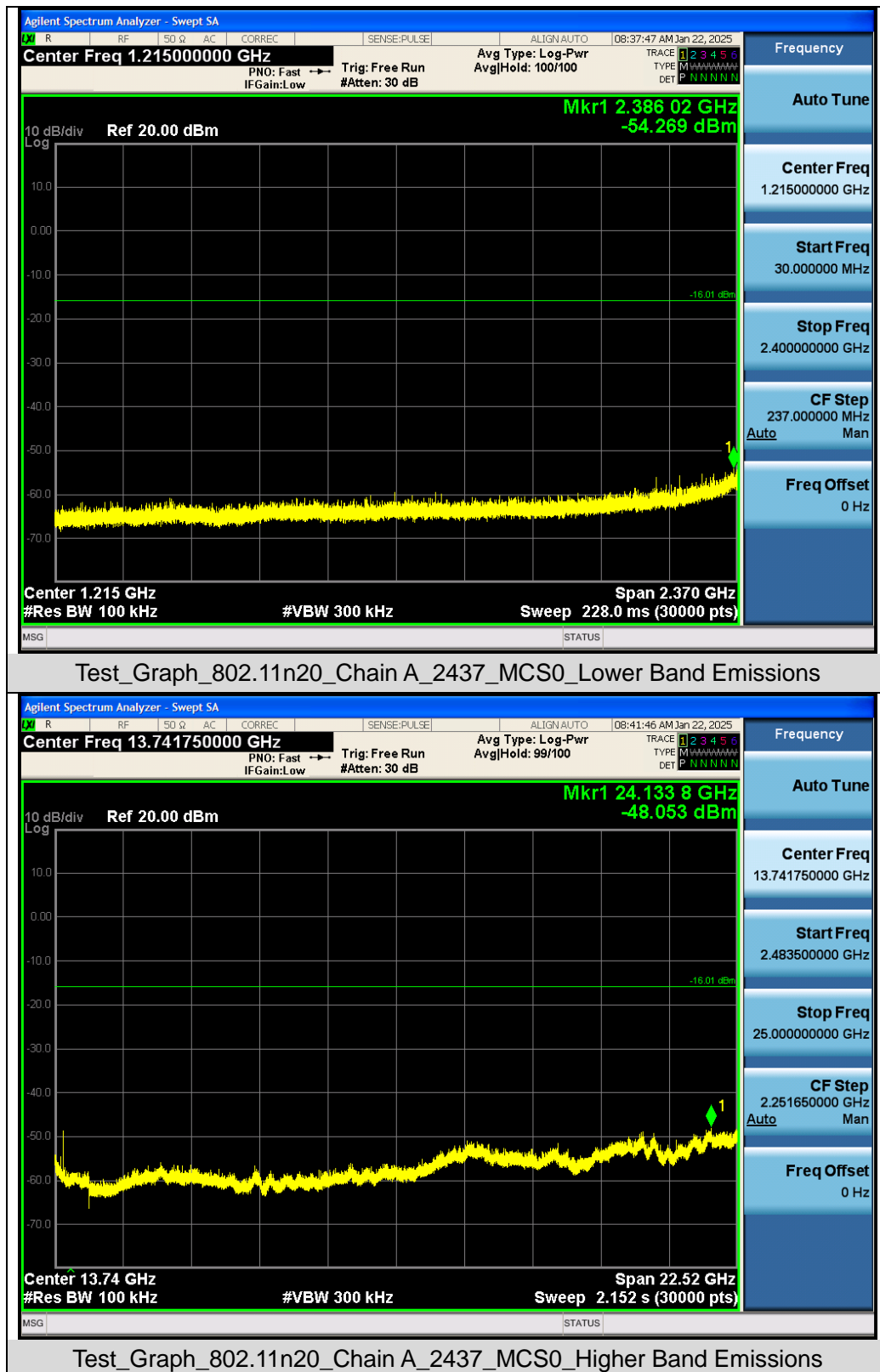




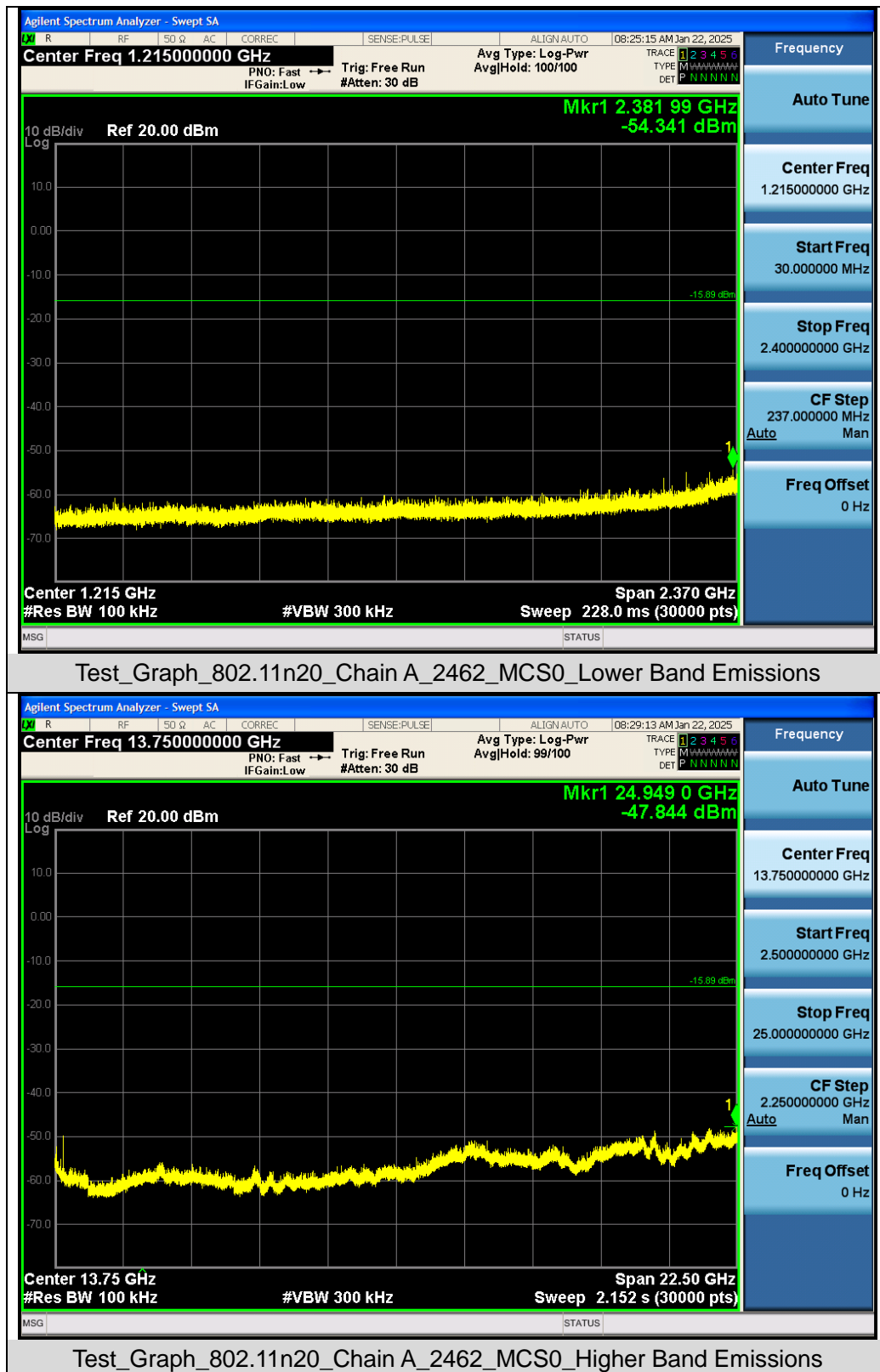
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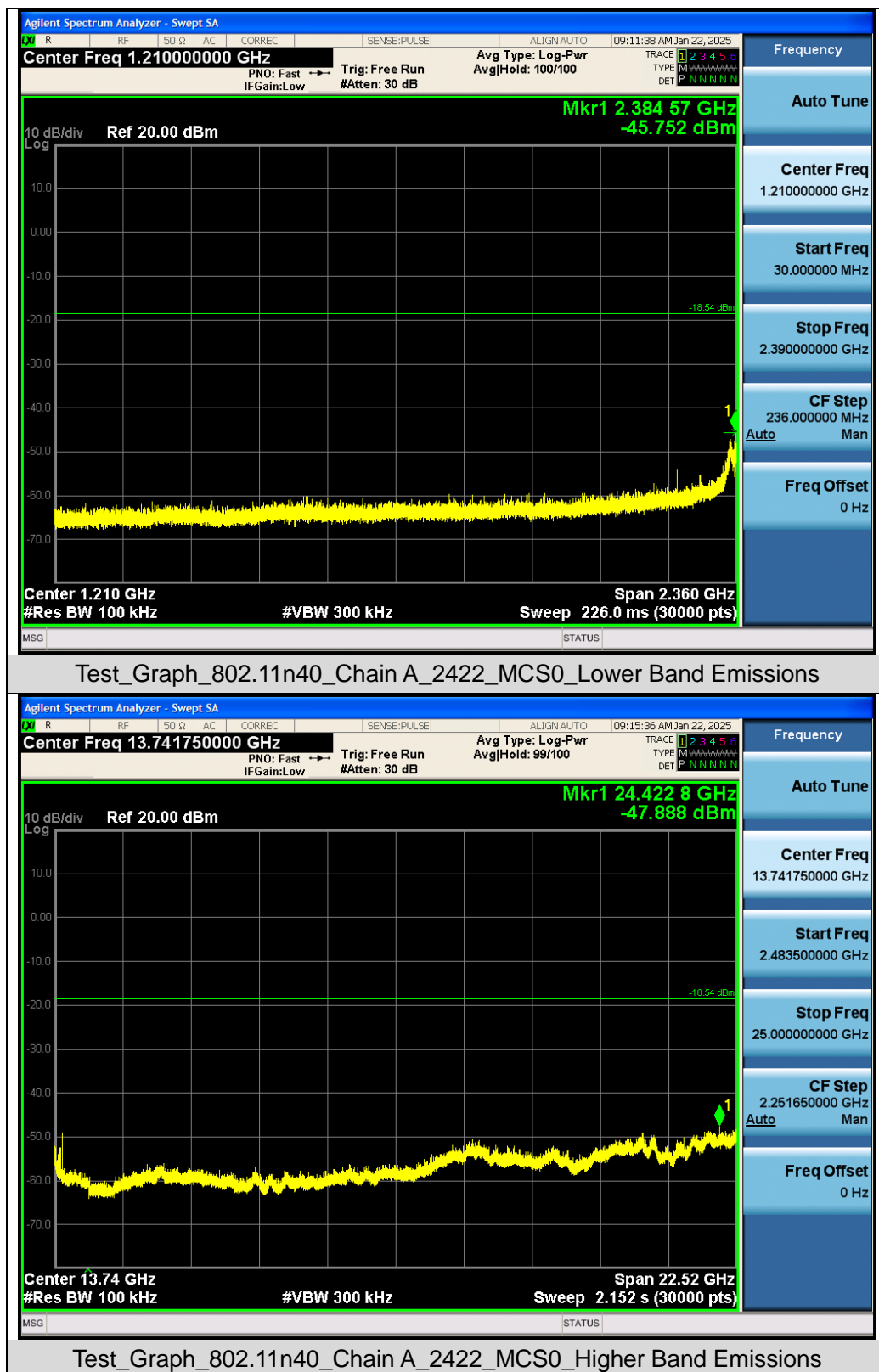
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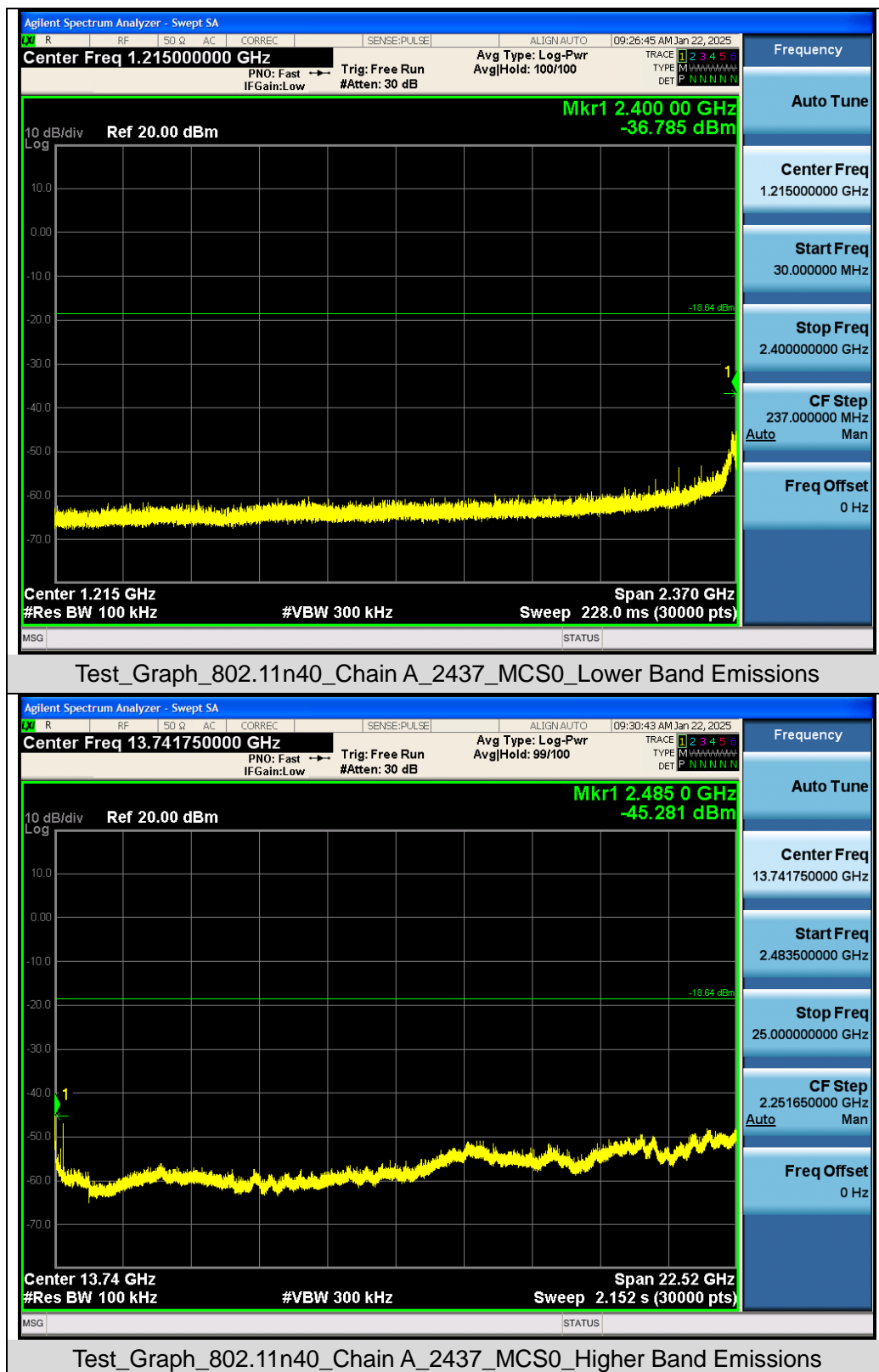


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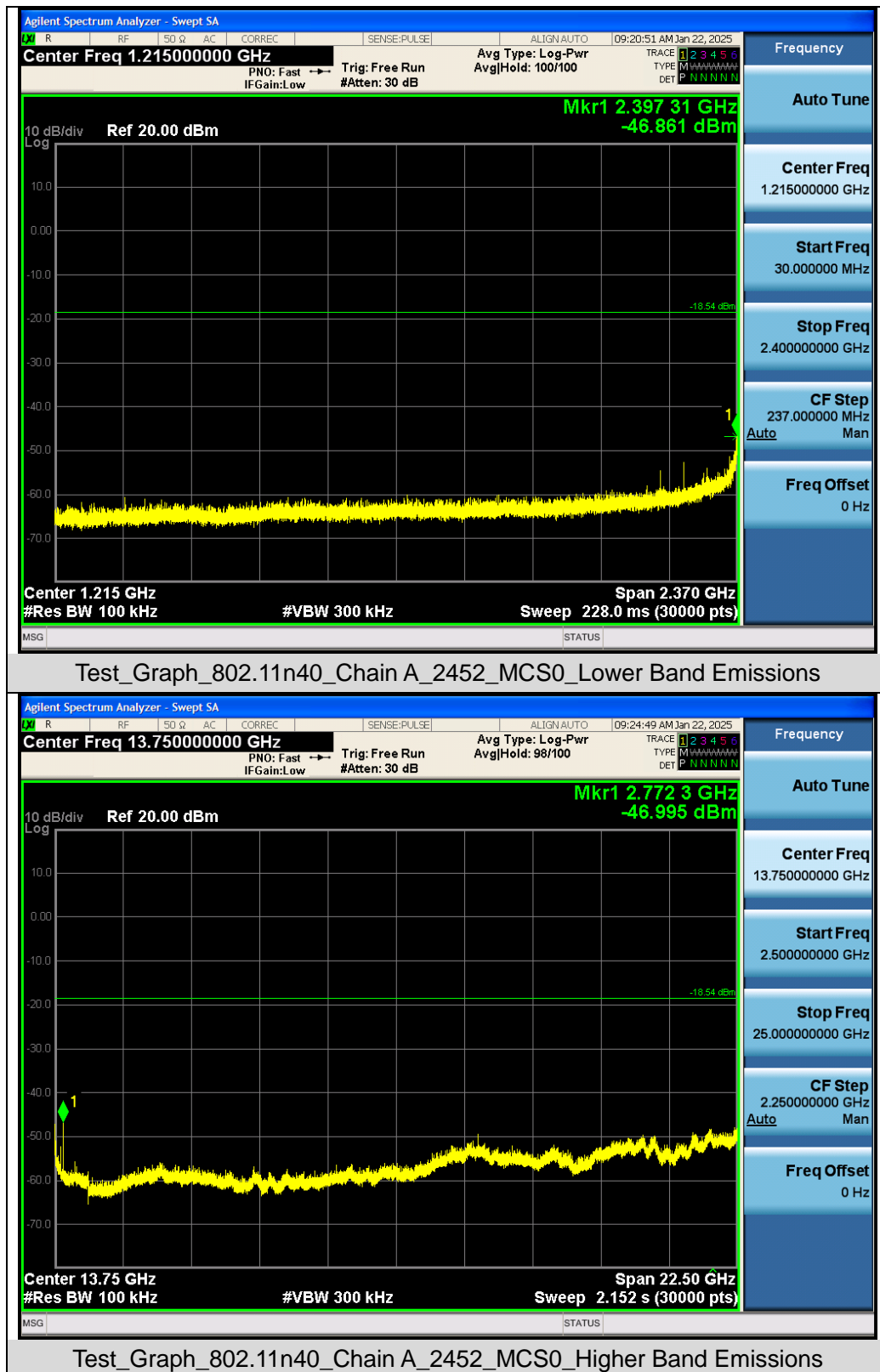
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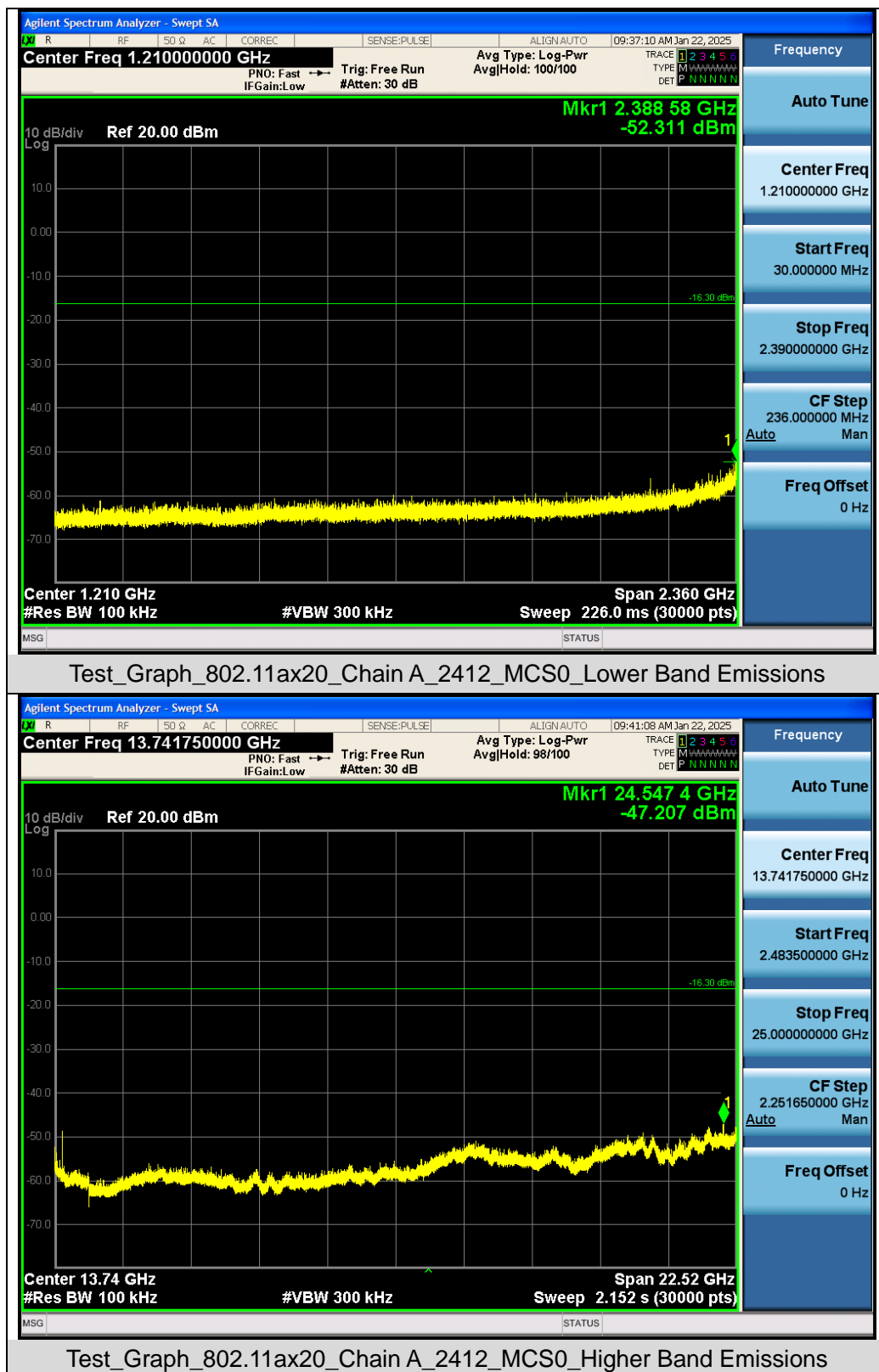


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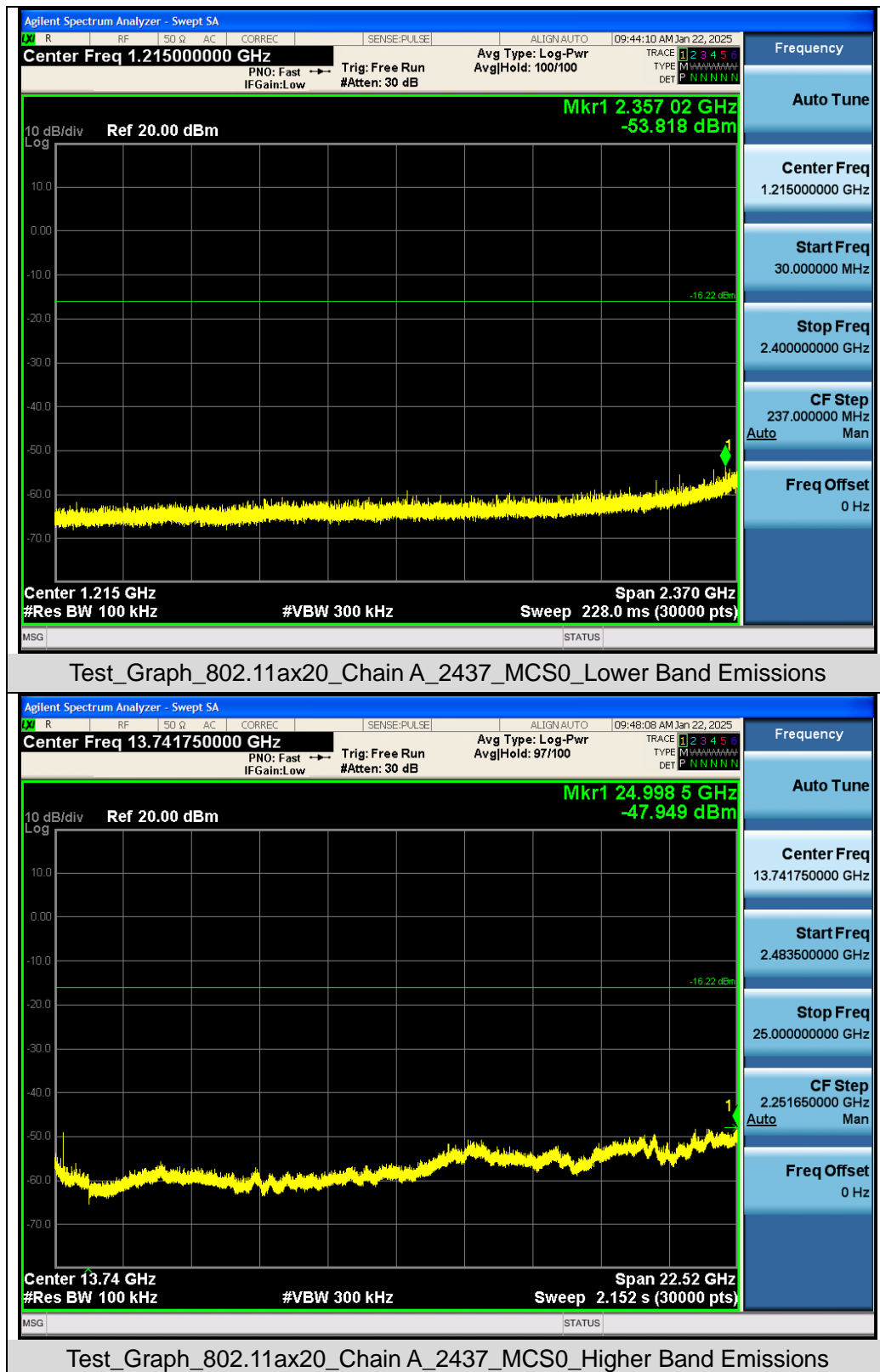




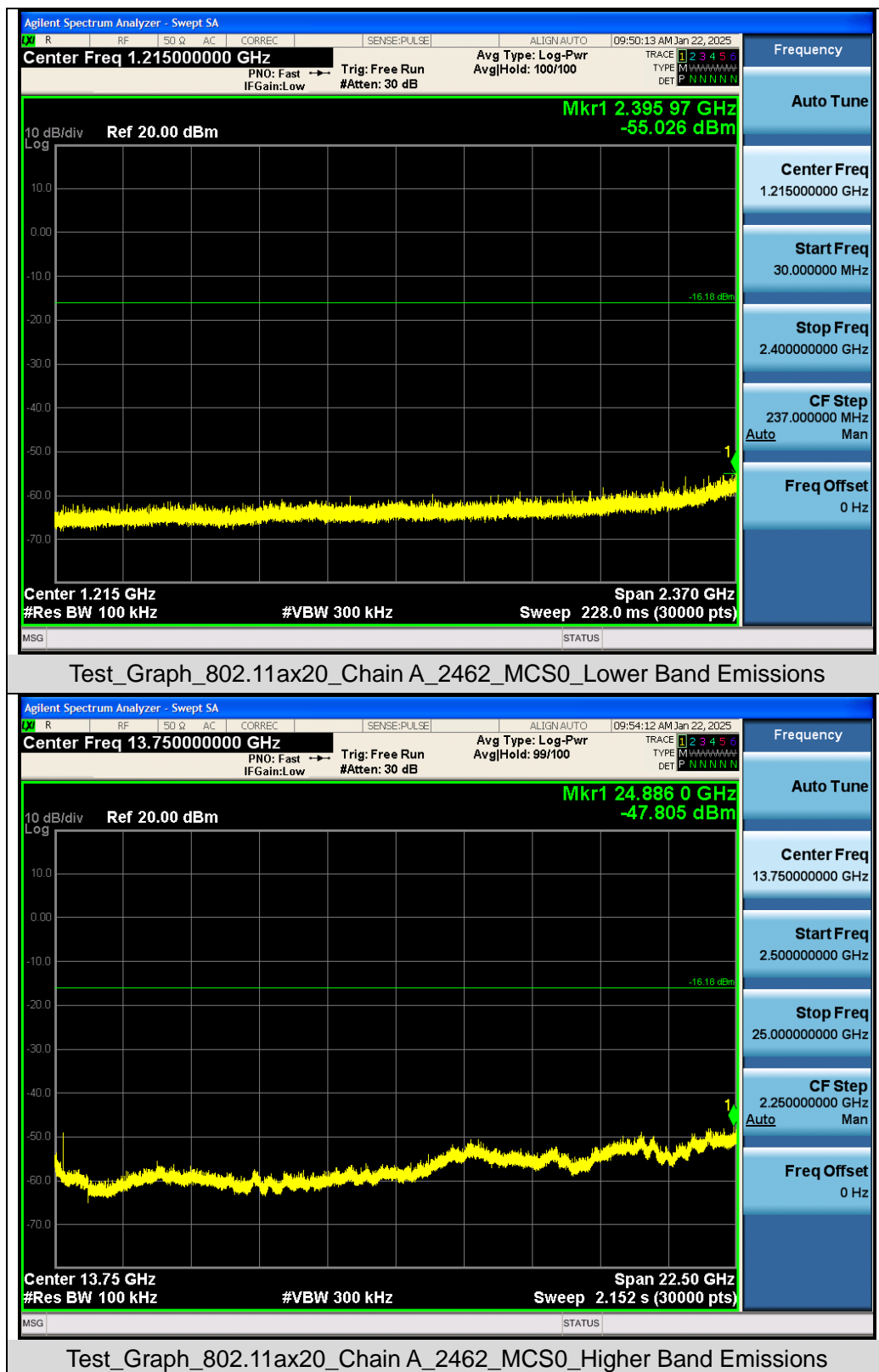
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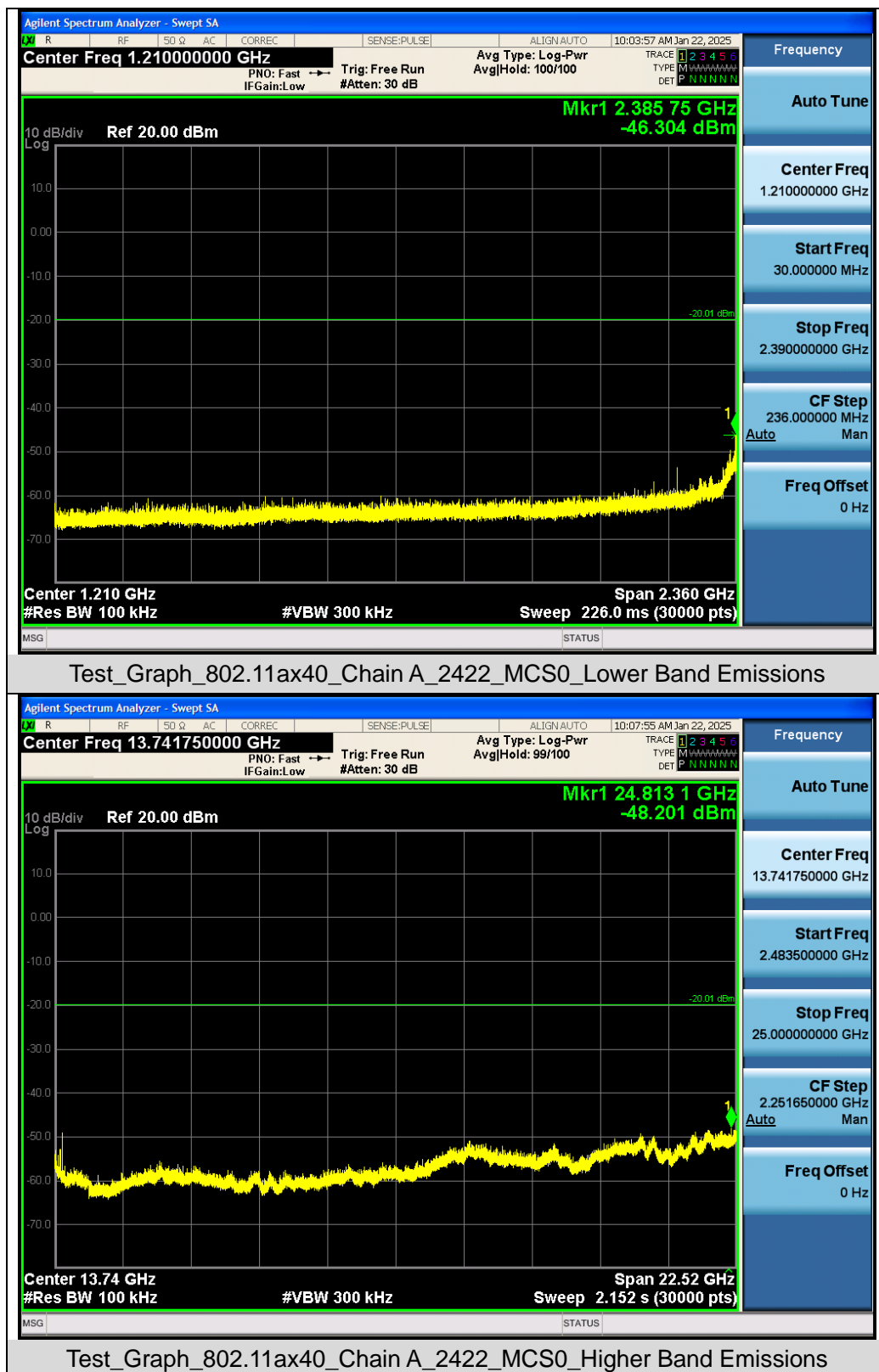
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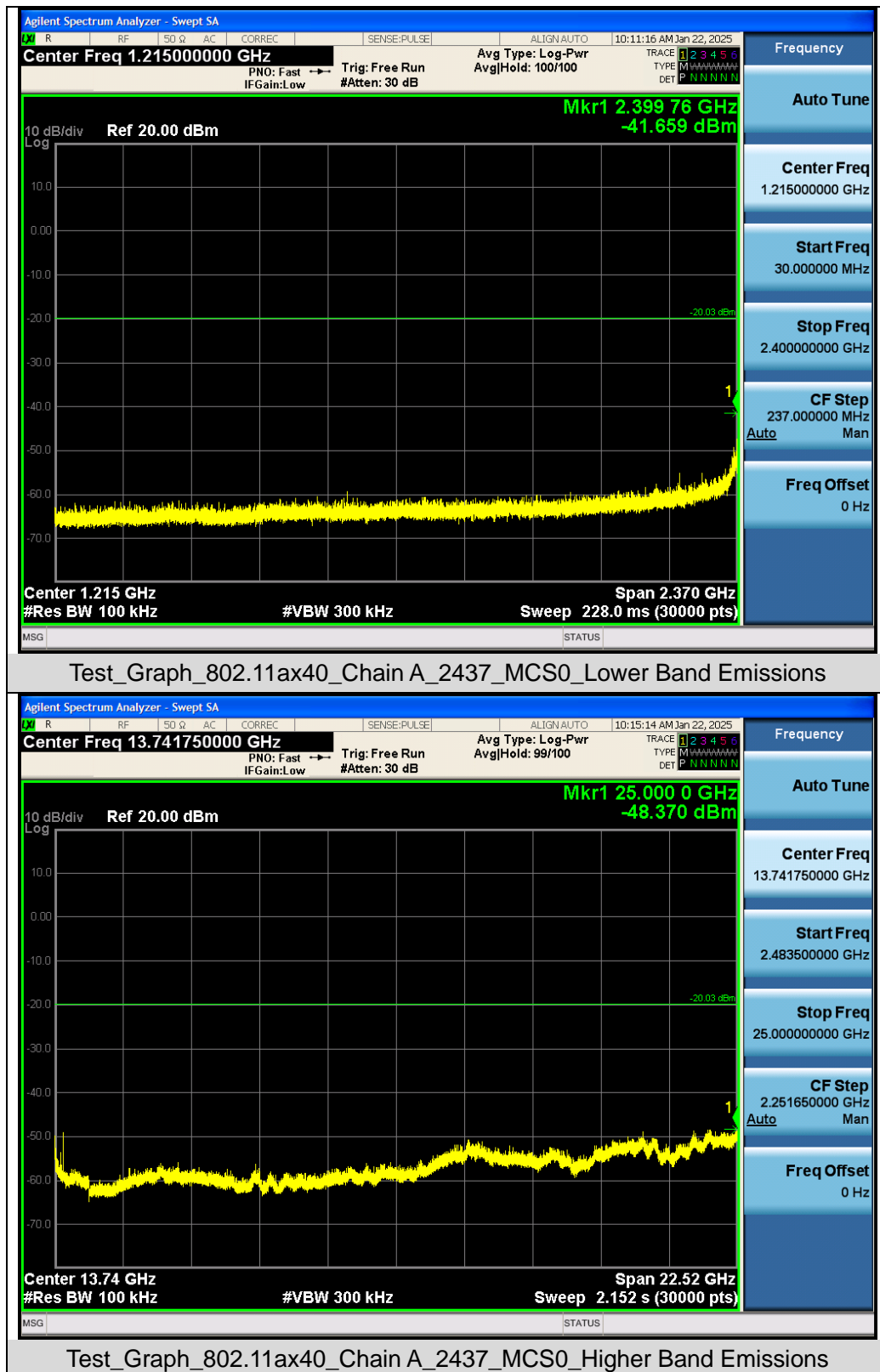


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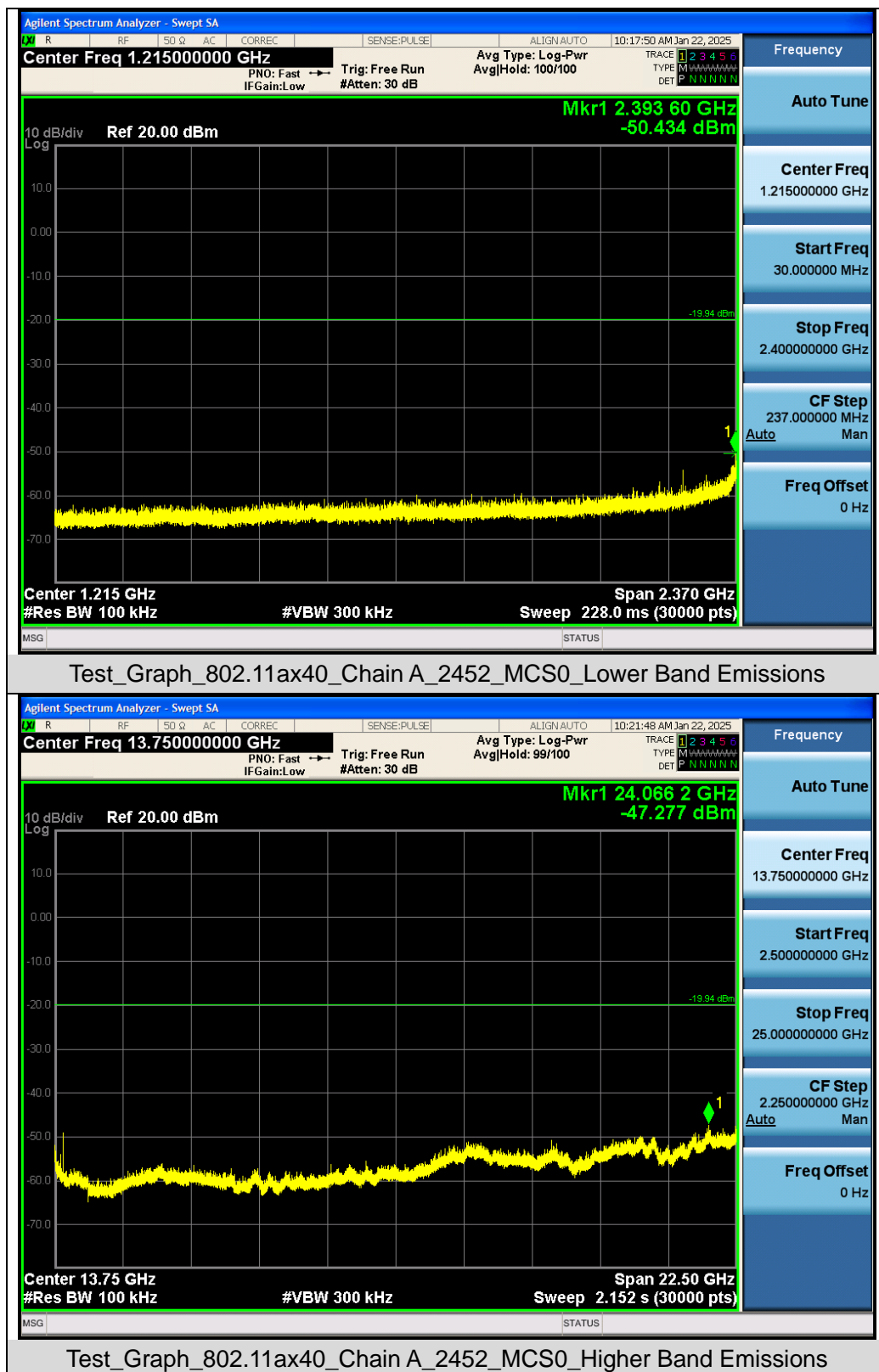
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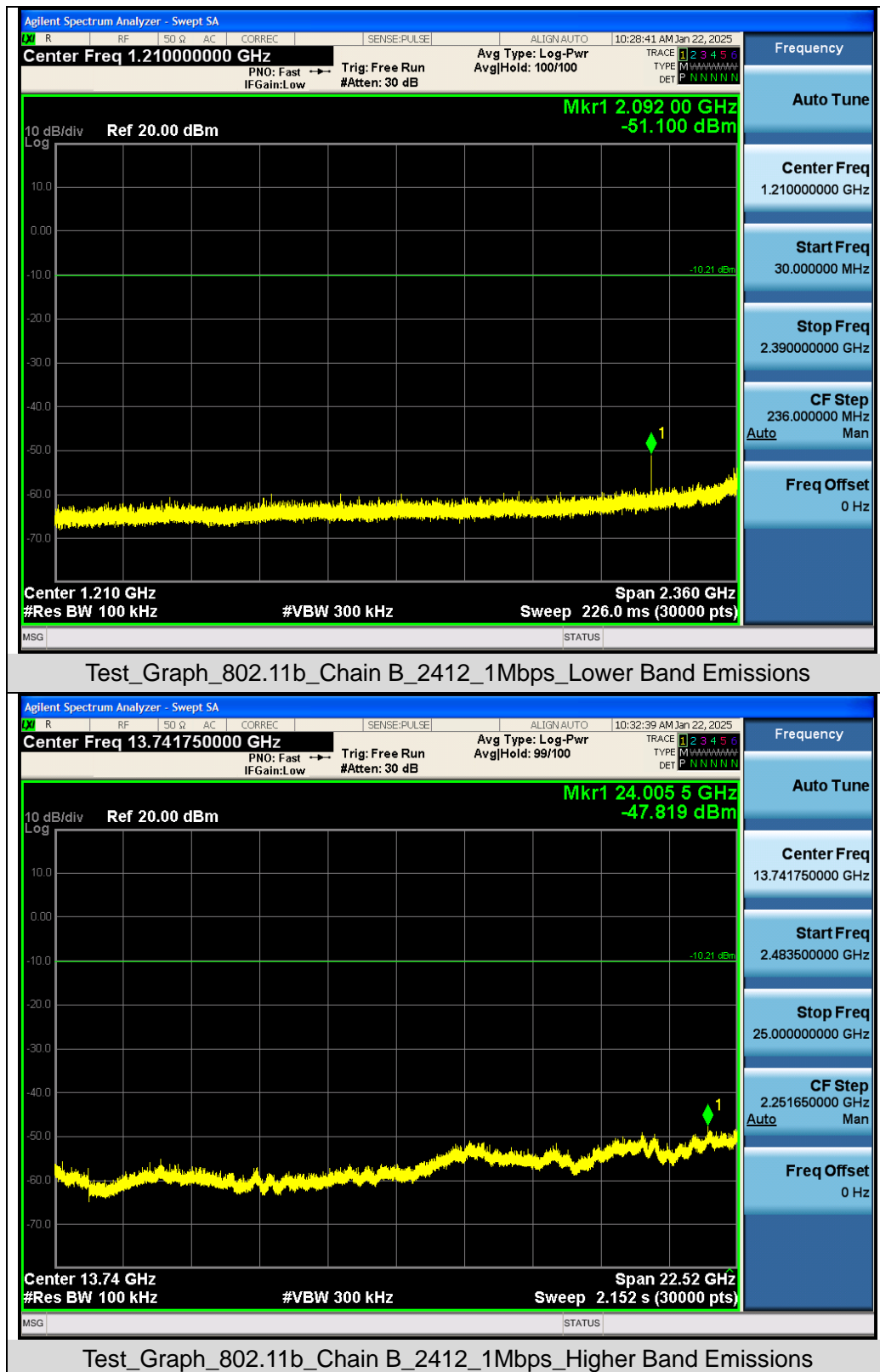


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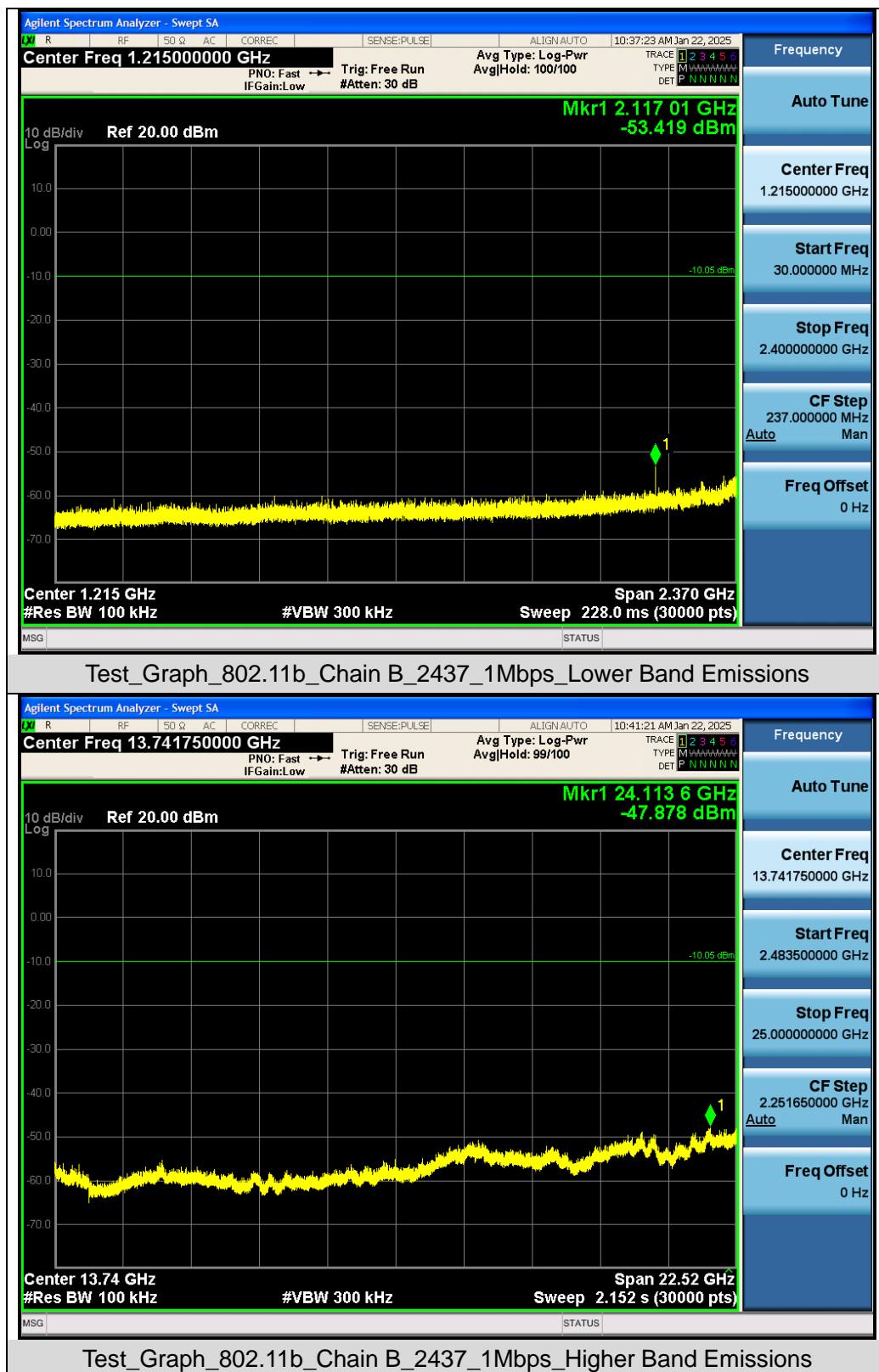




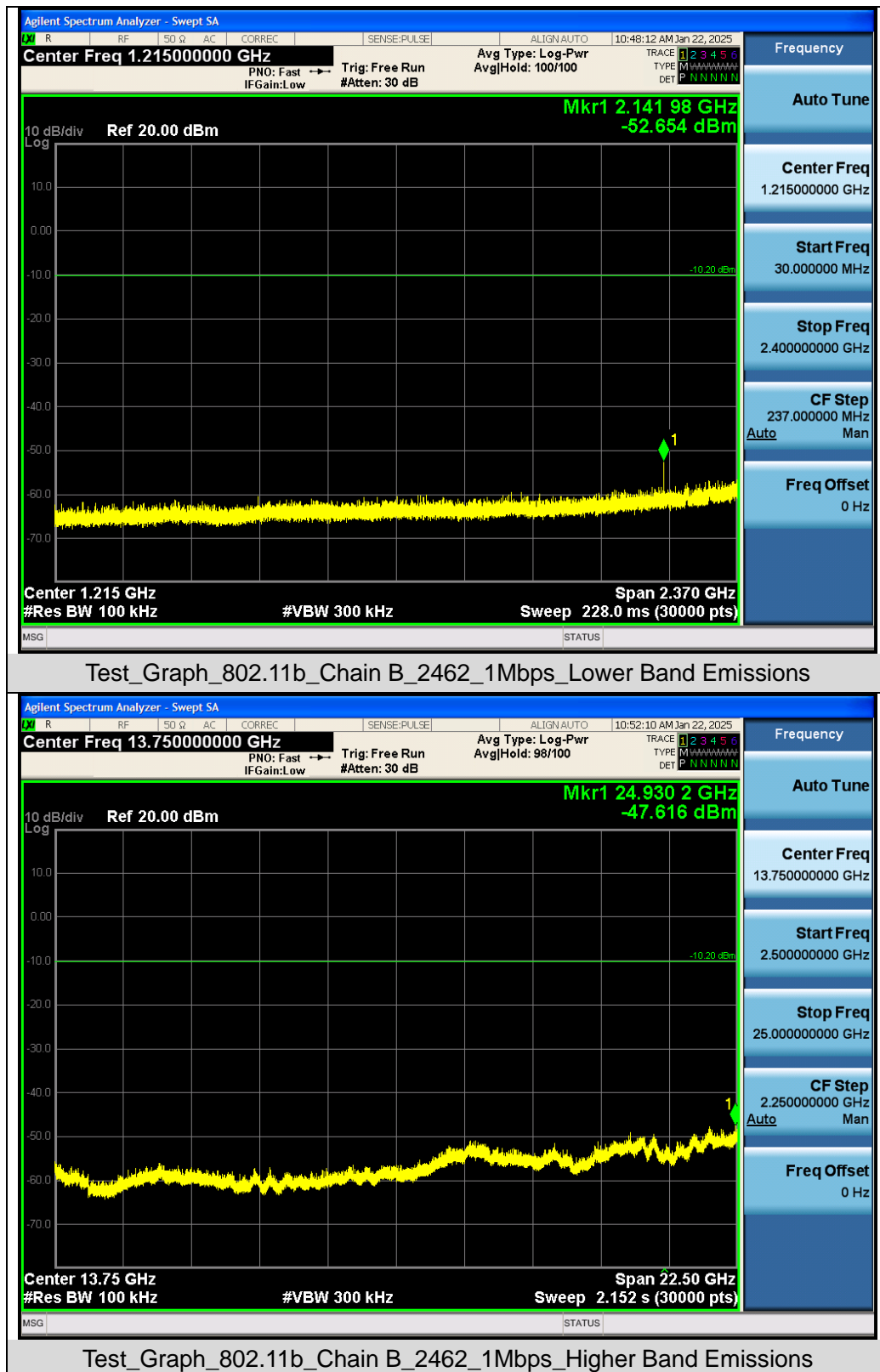
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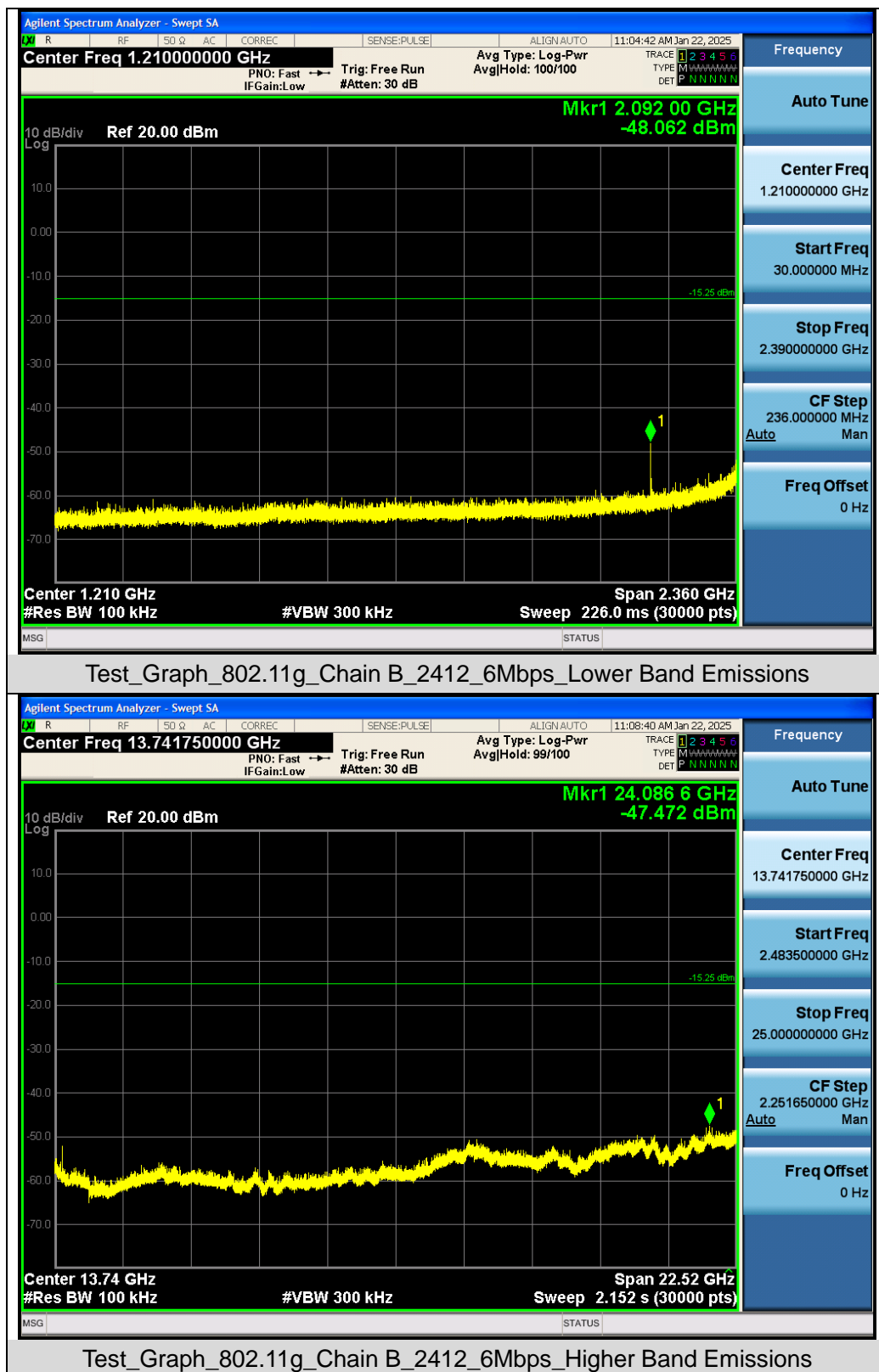
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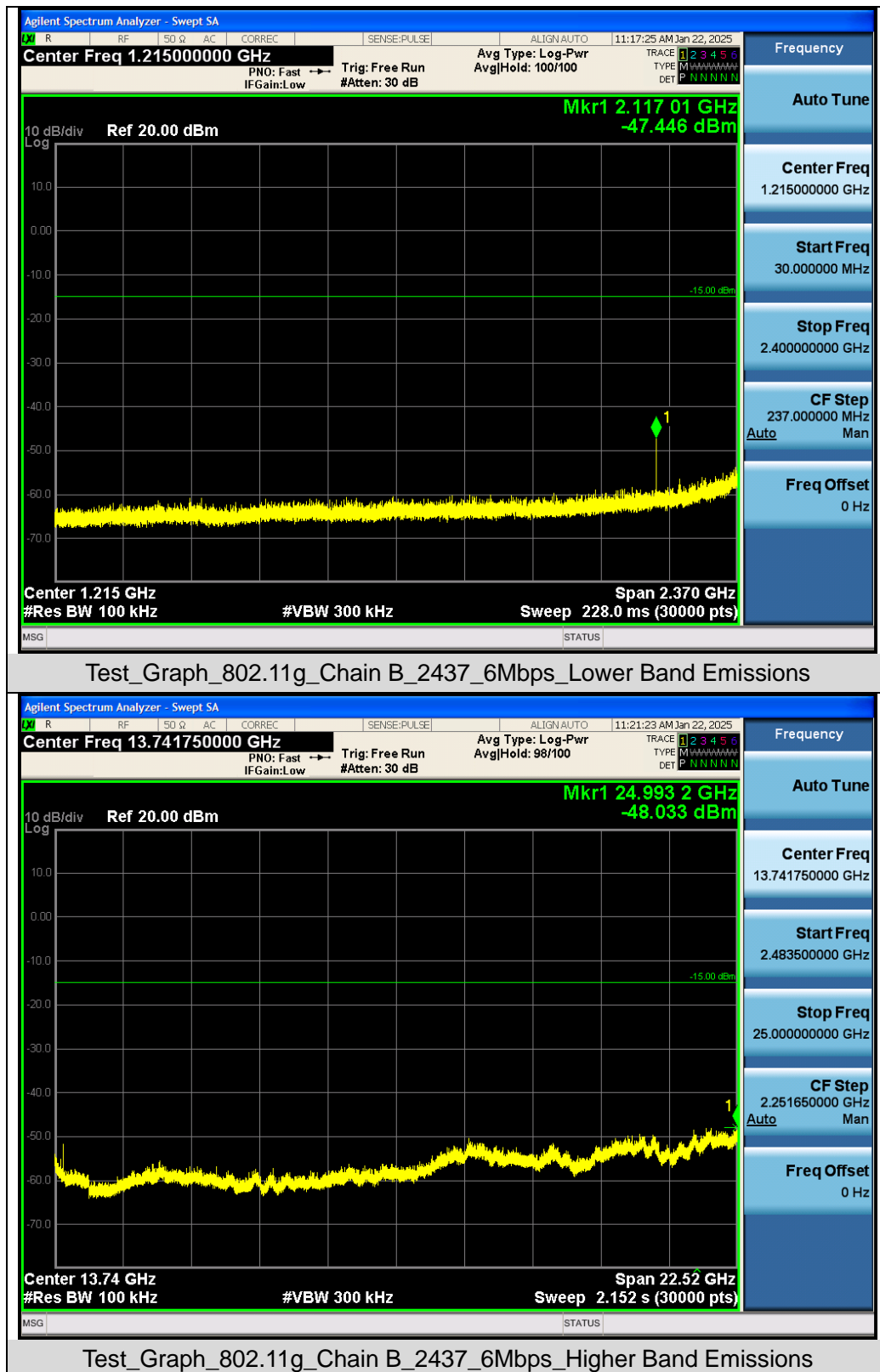


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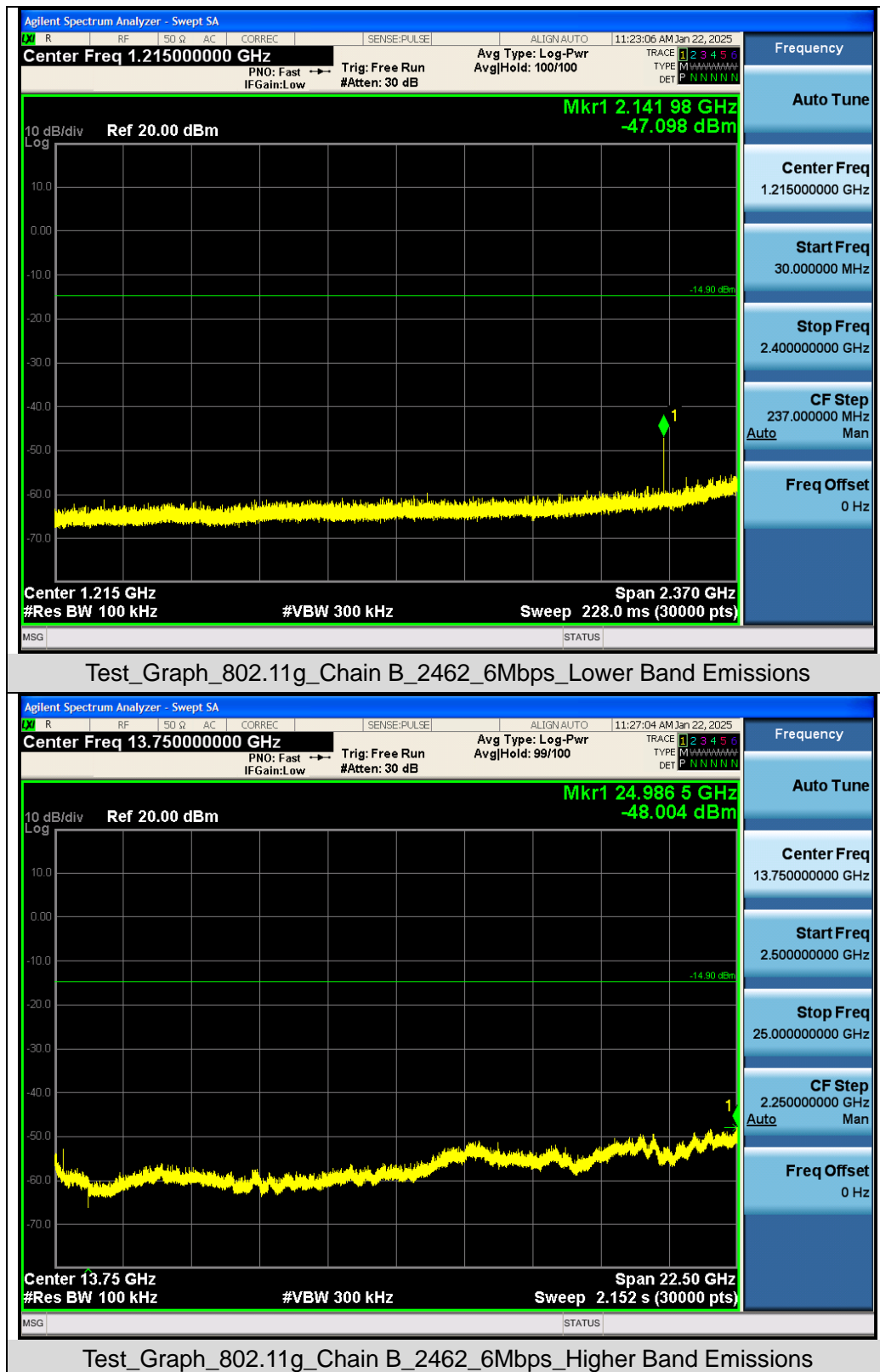
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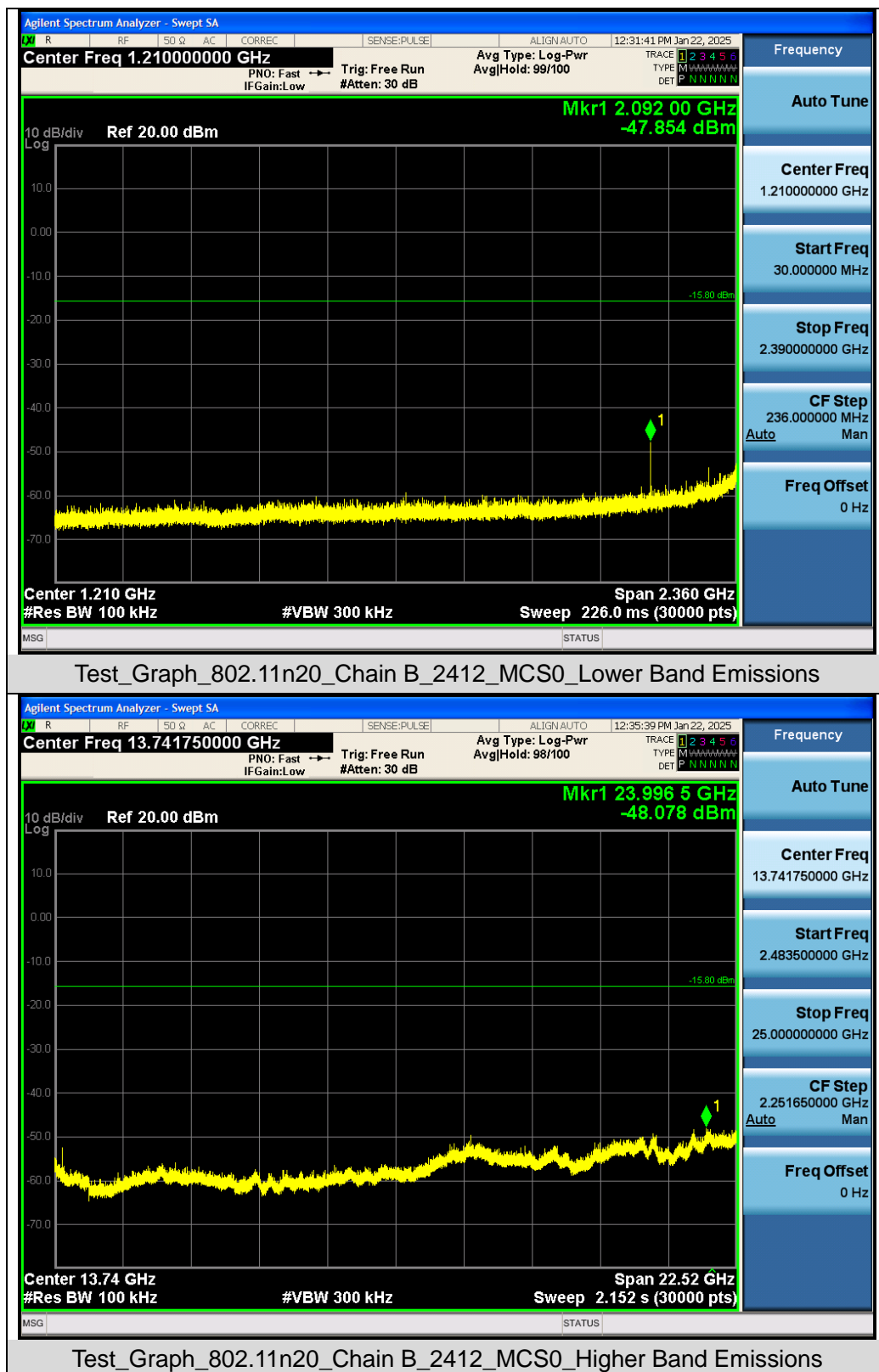


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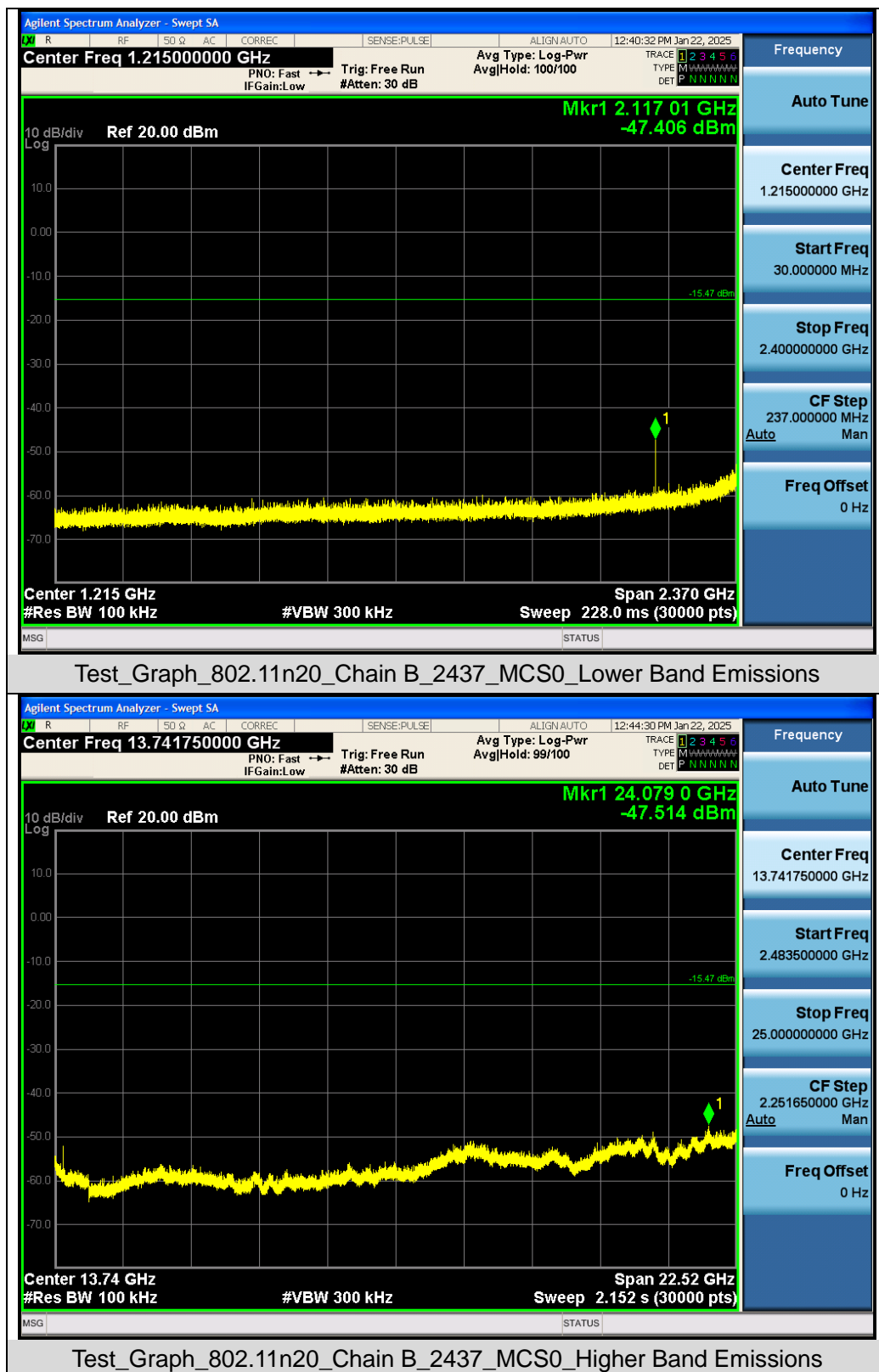




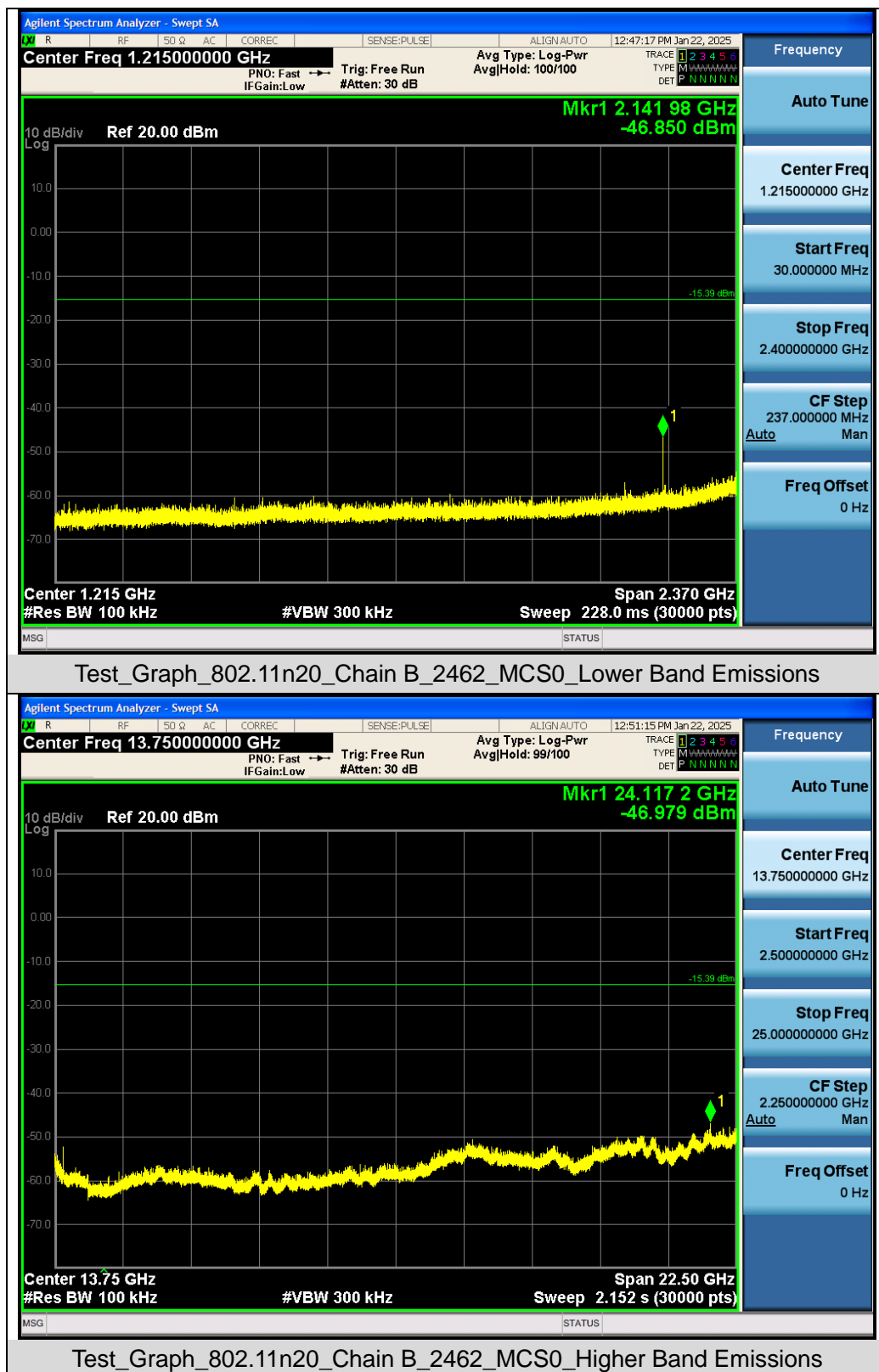
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