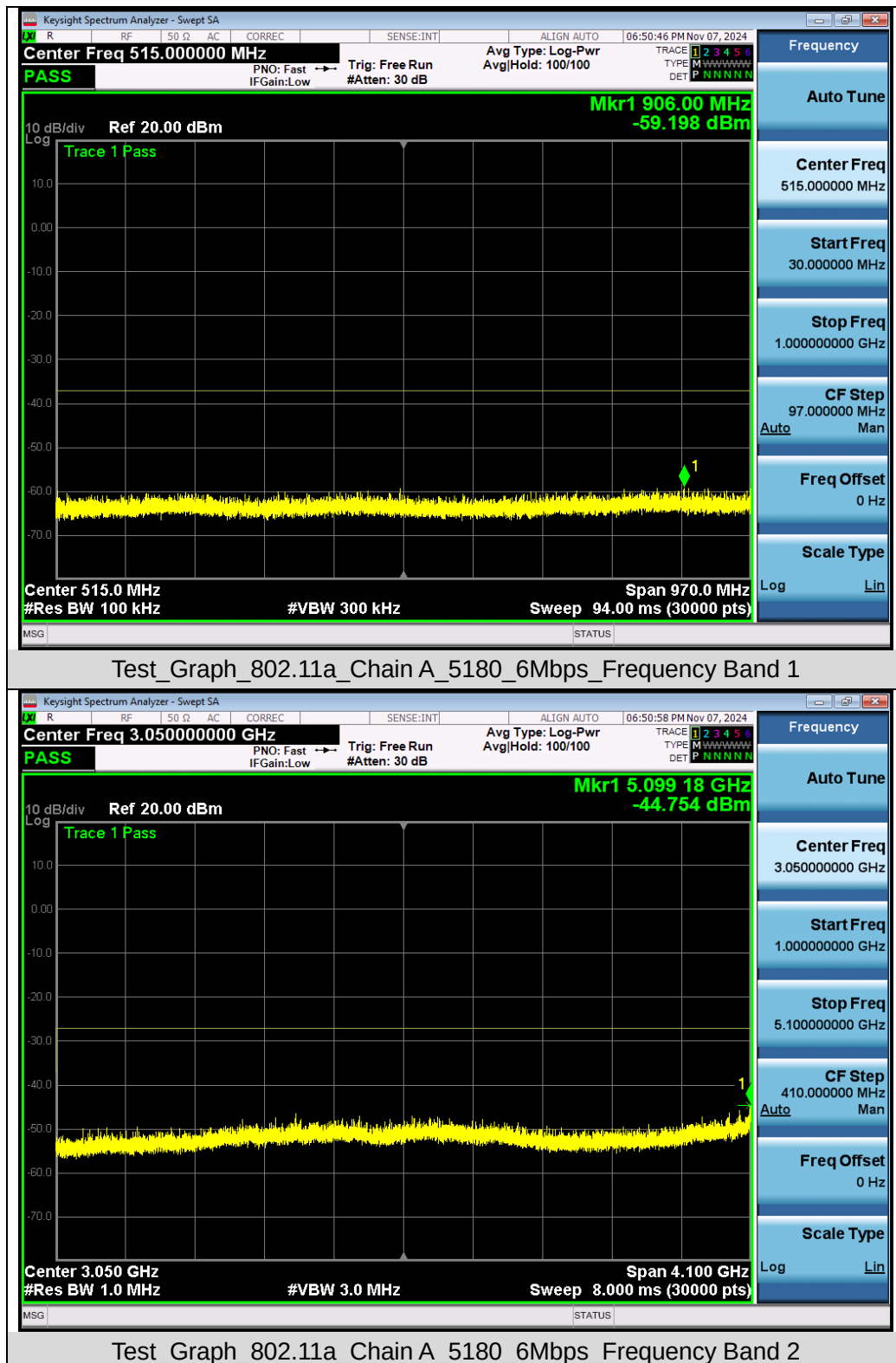
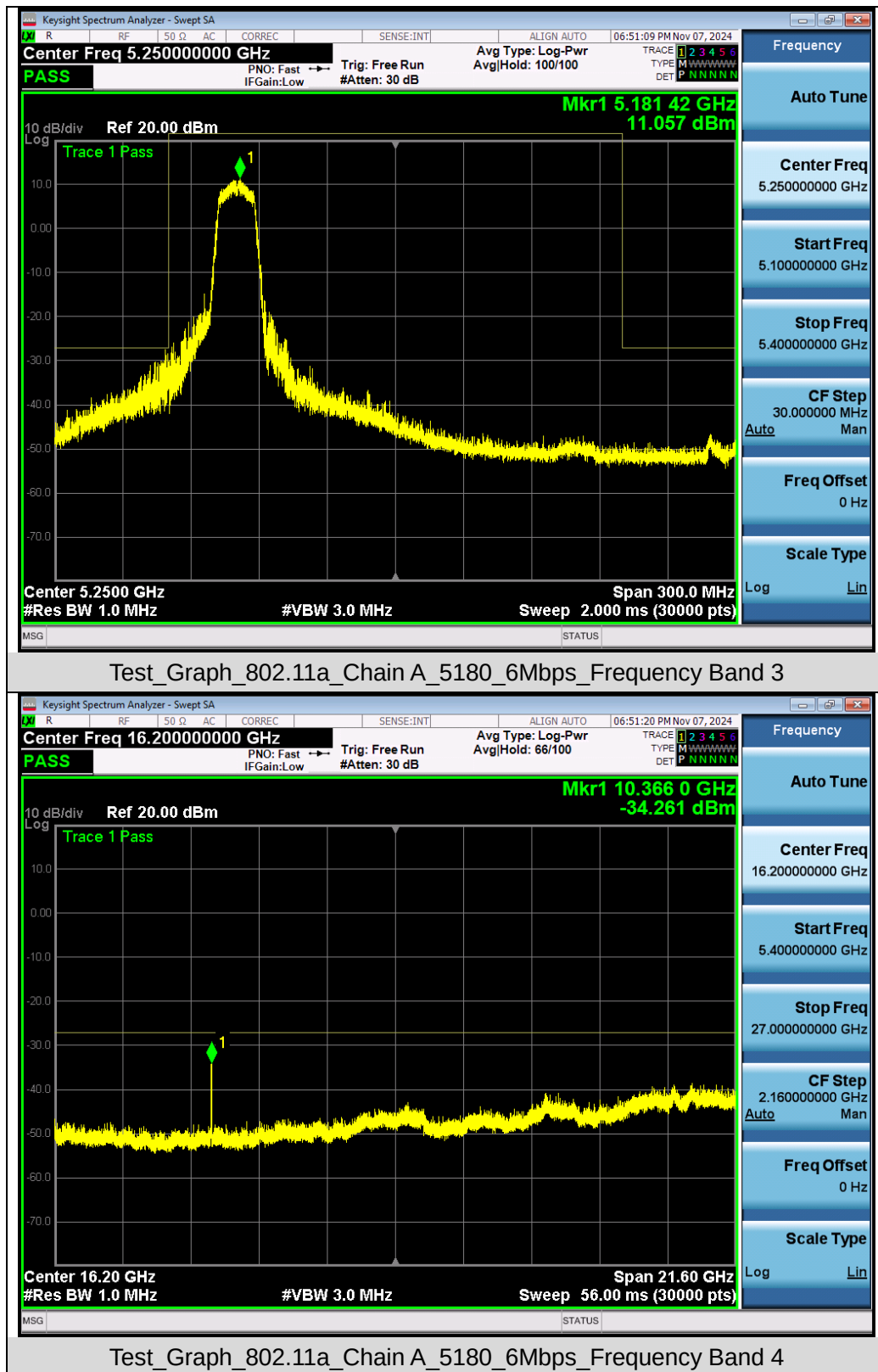


## 10.4 Measurement Results

### Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band

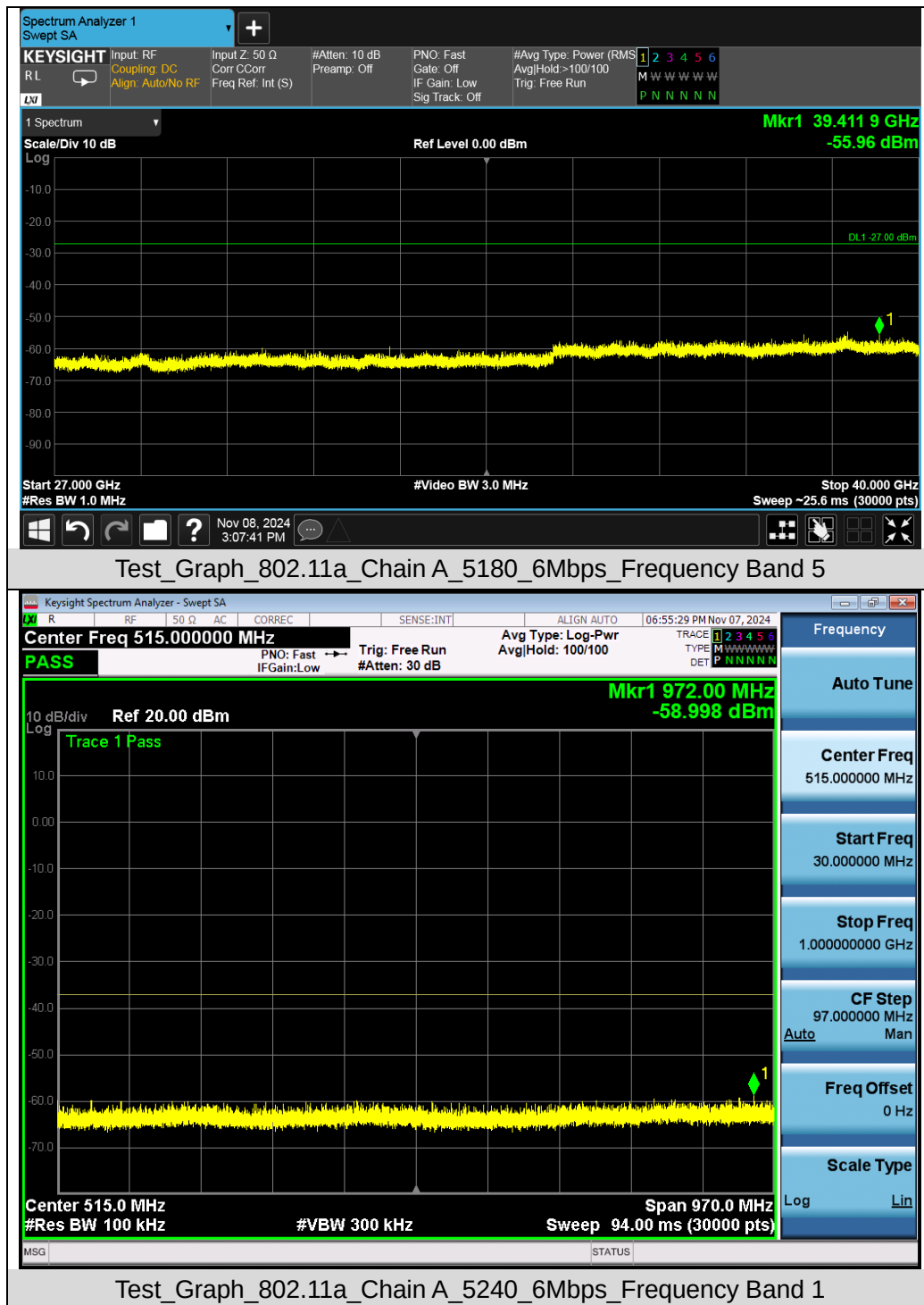


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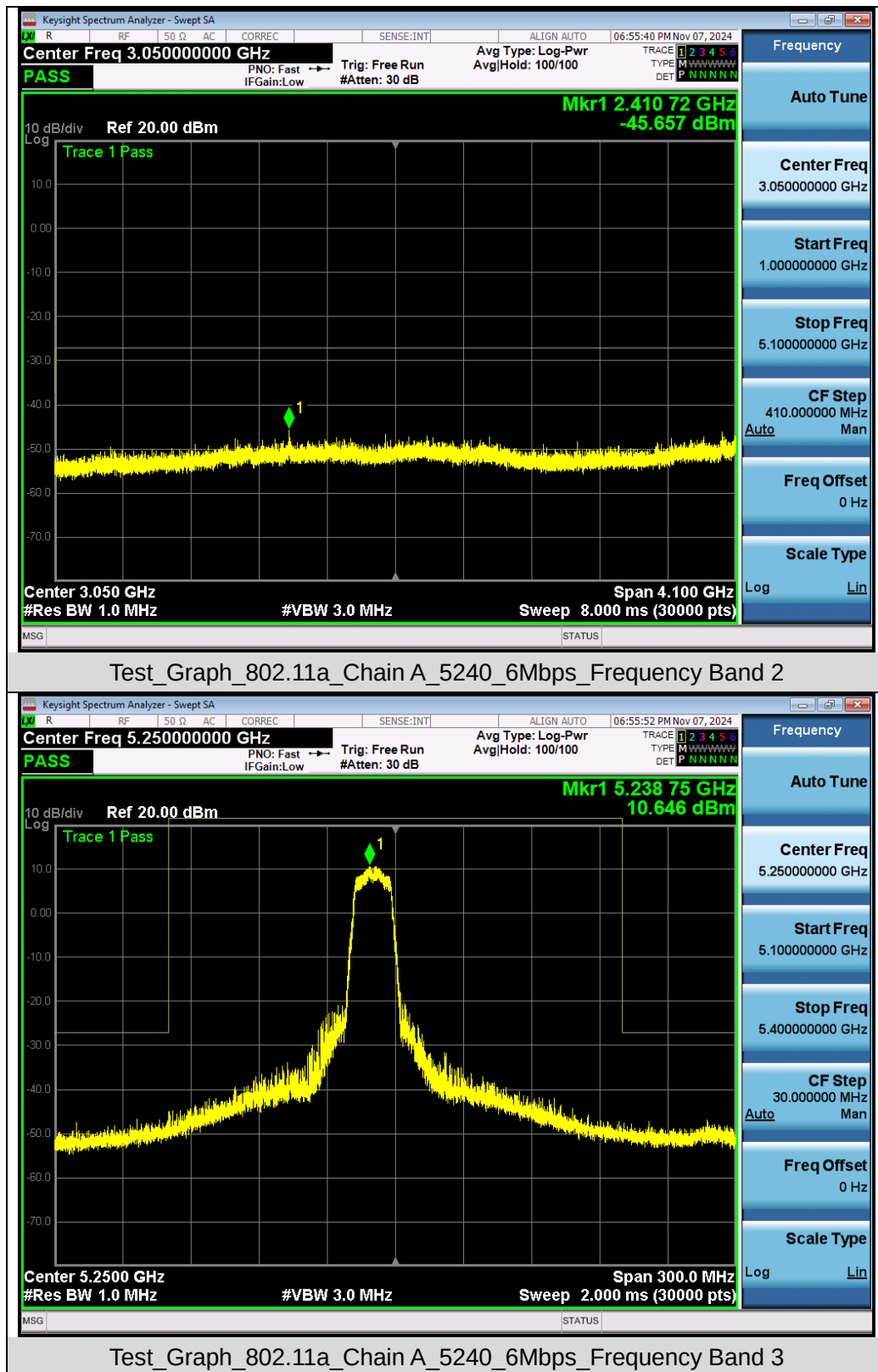
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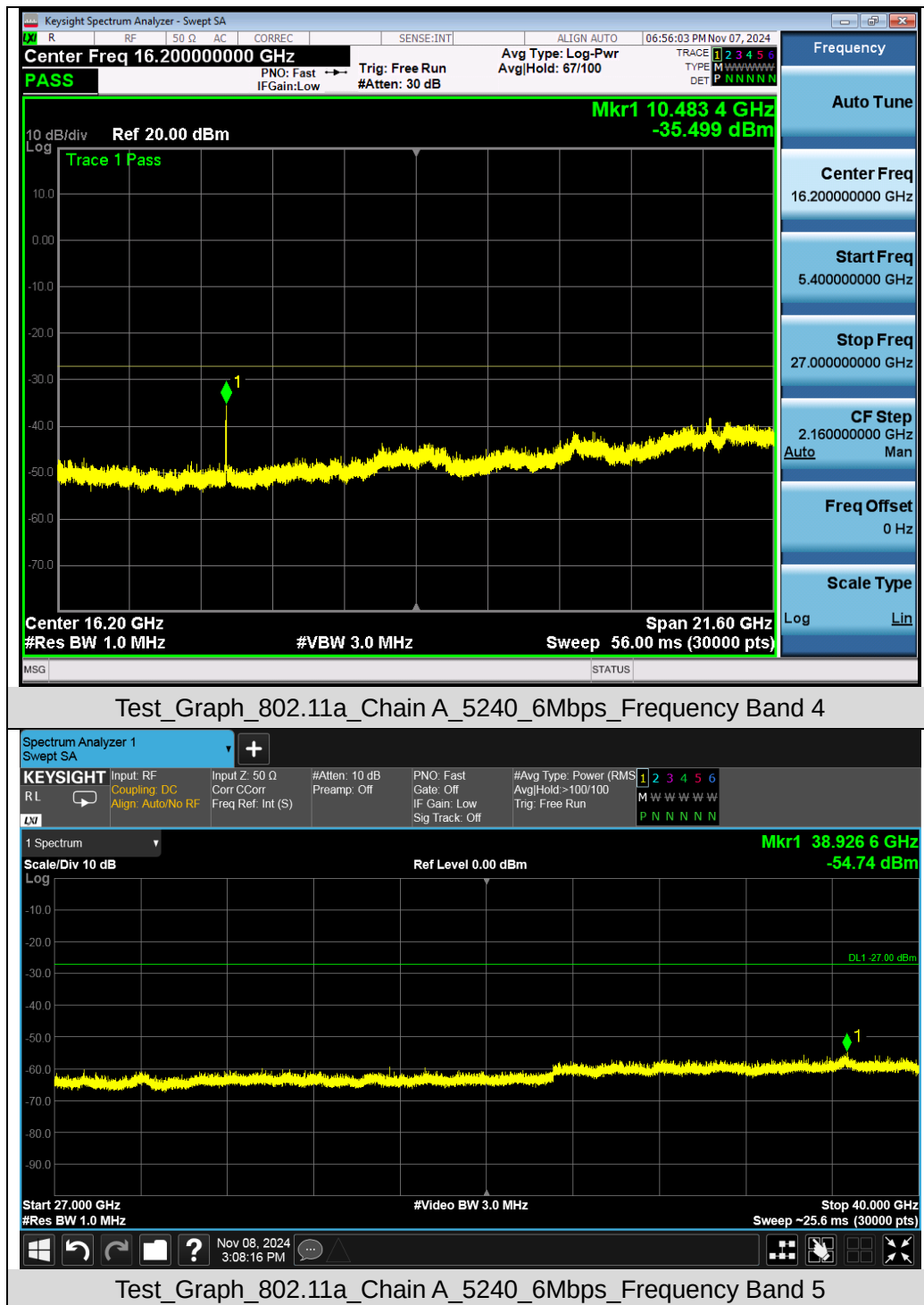


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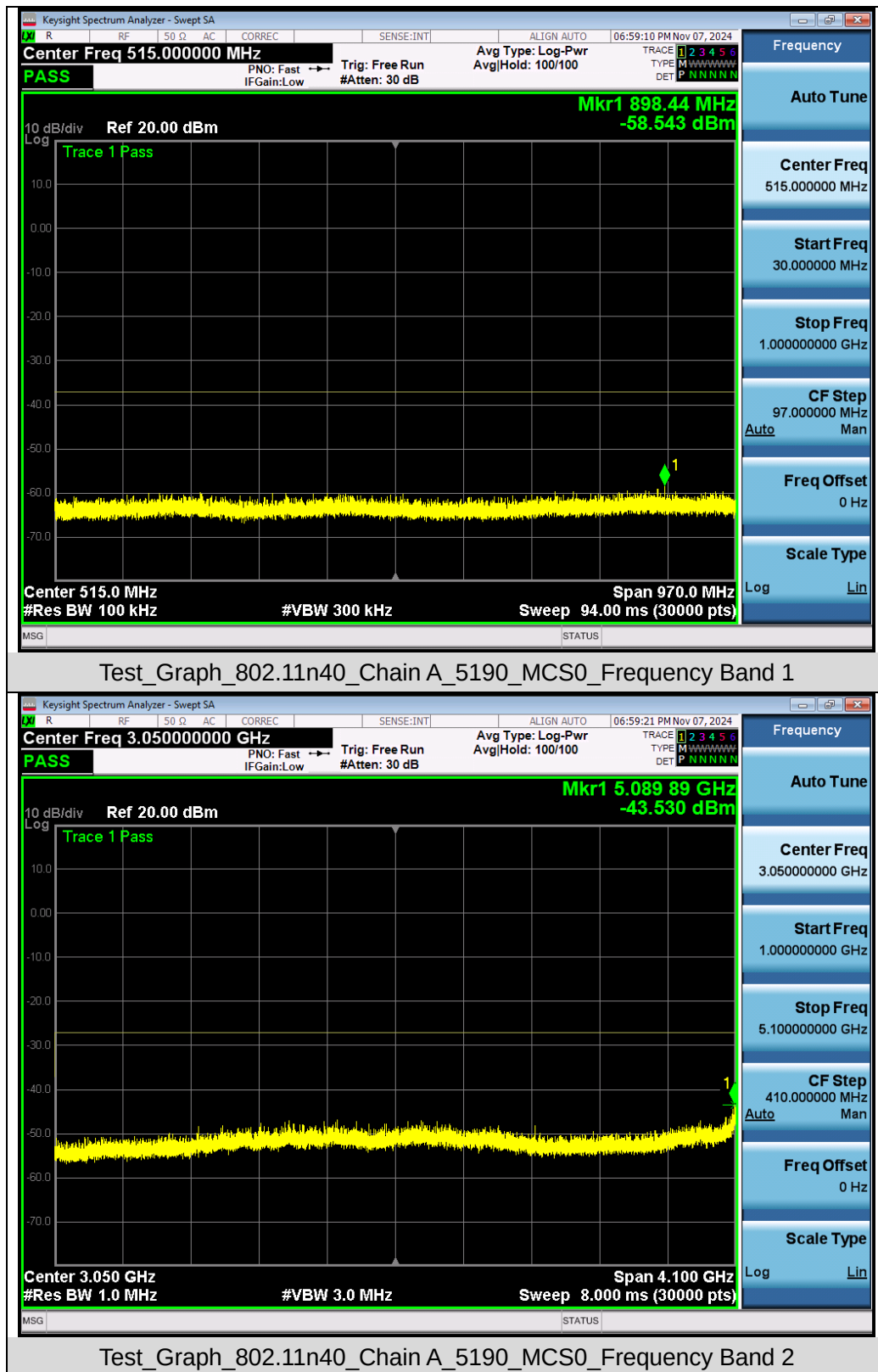


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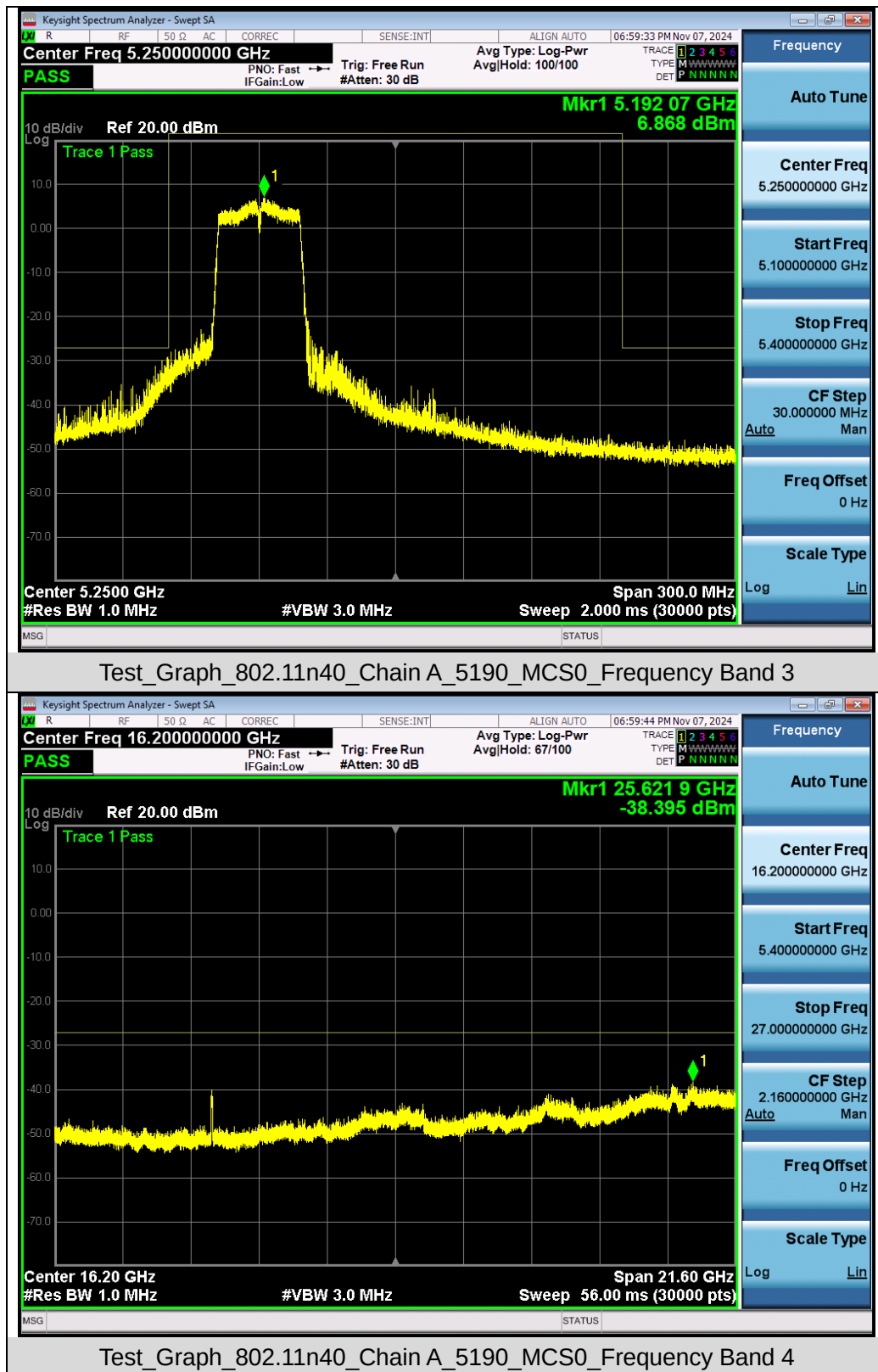


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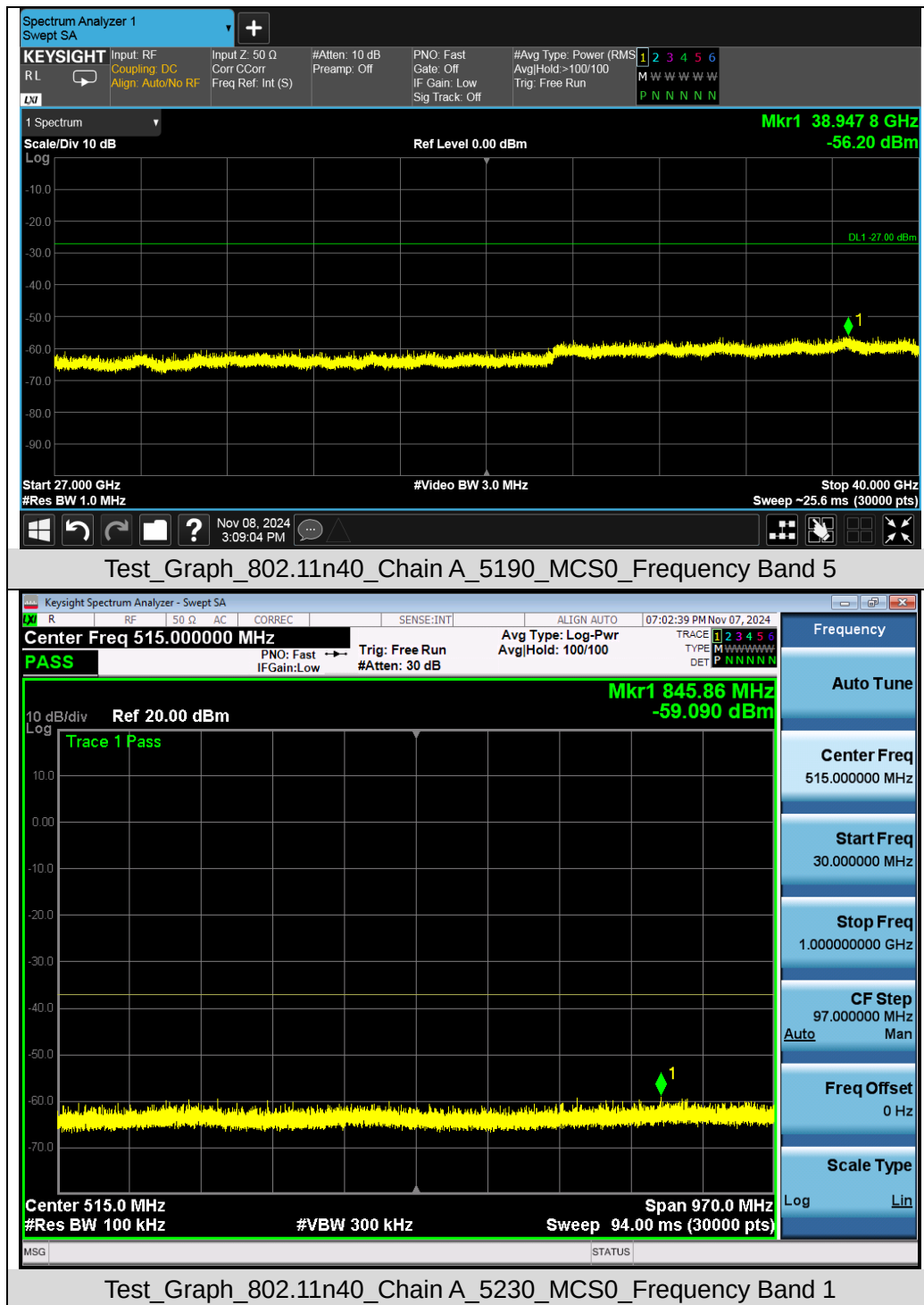
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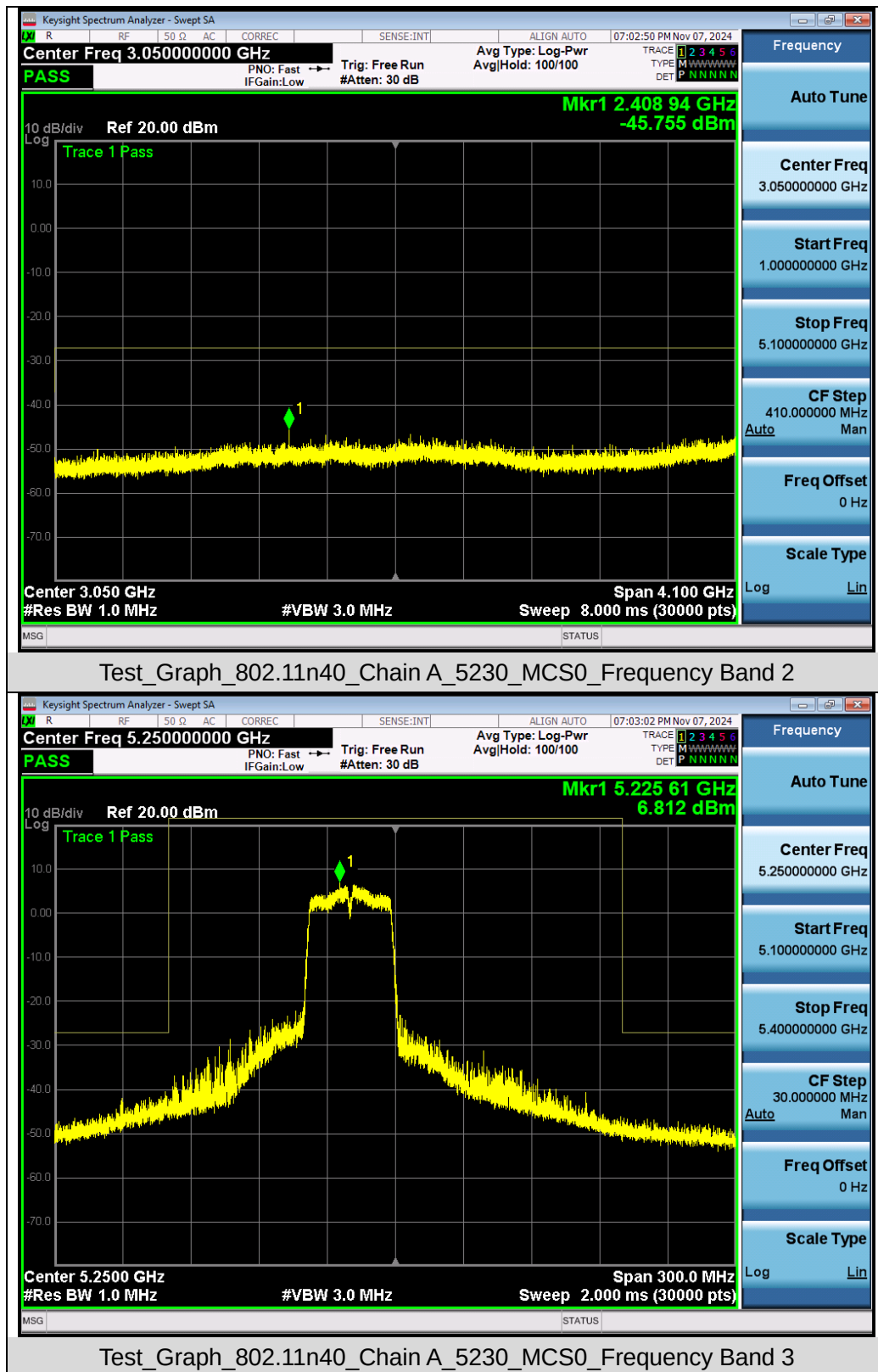


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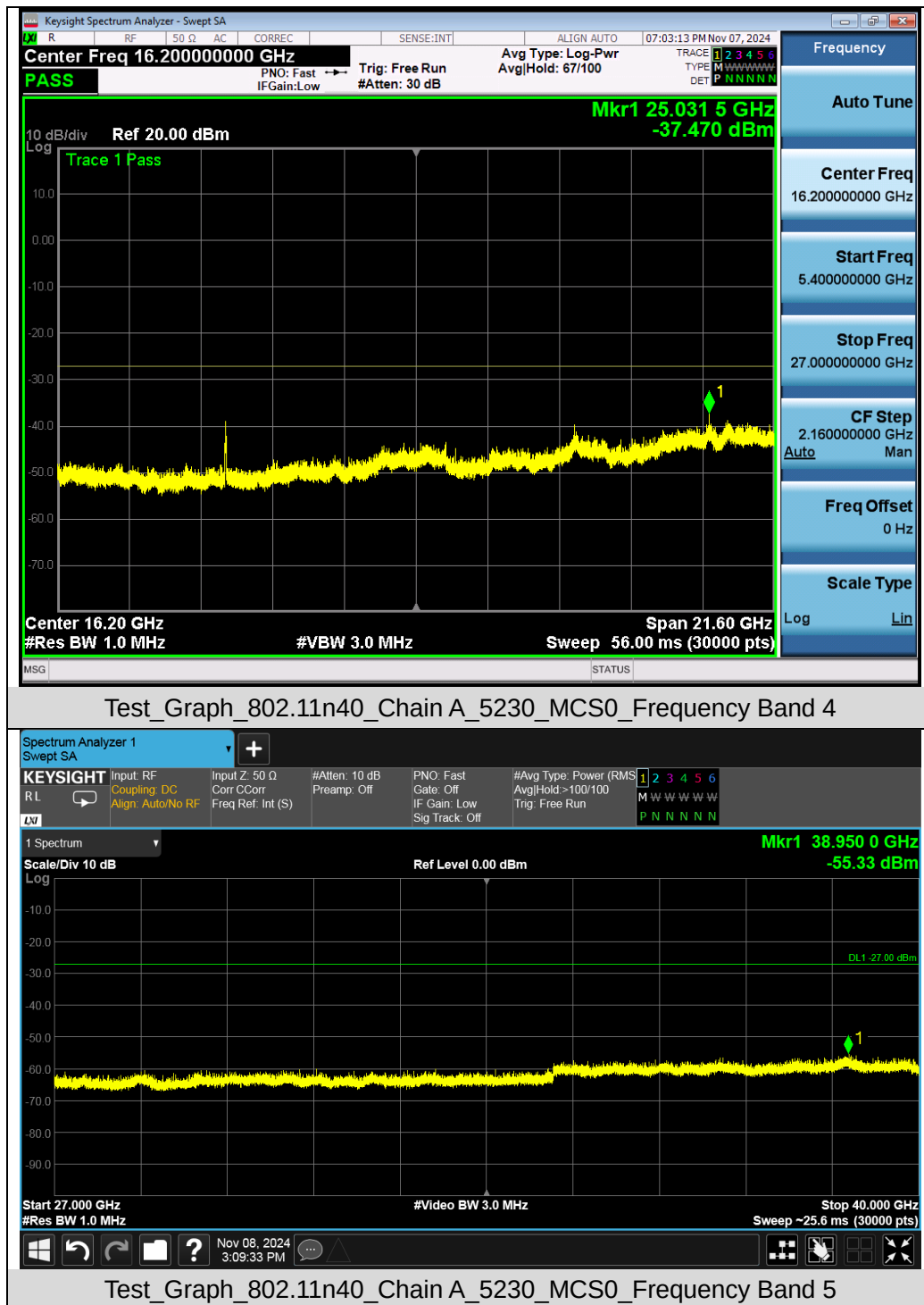


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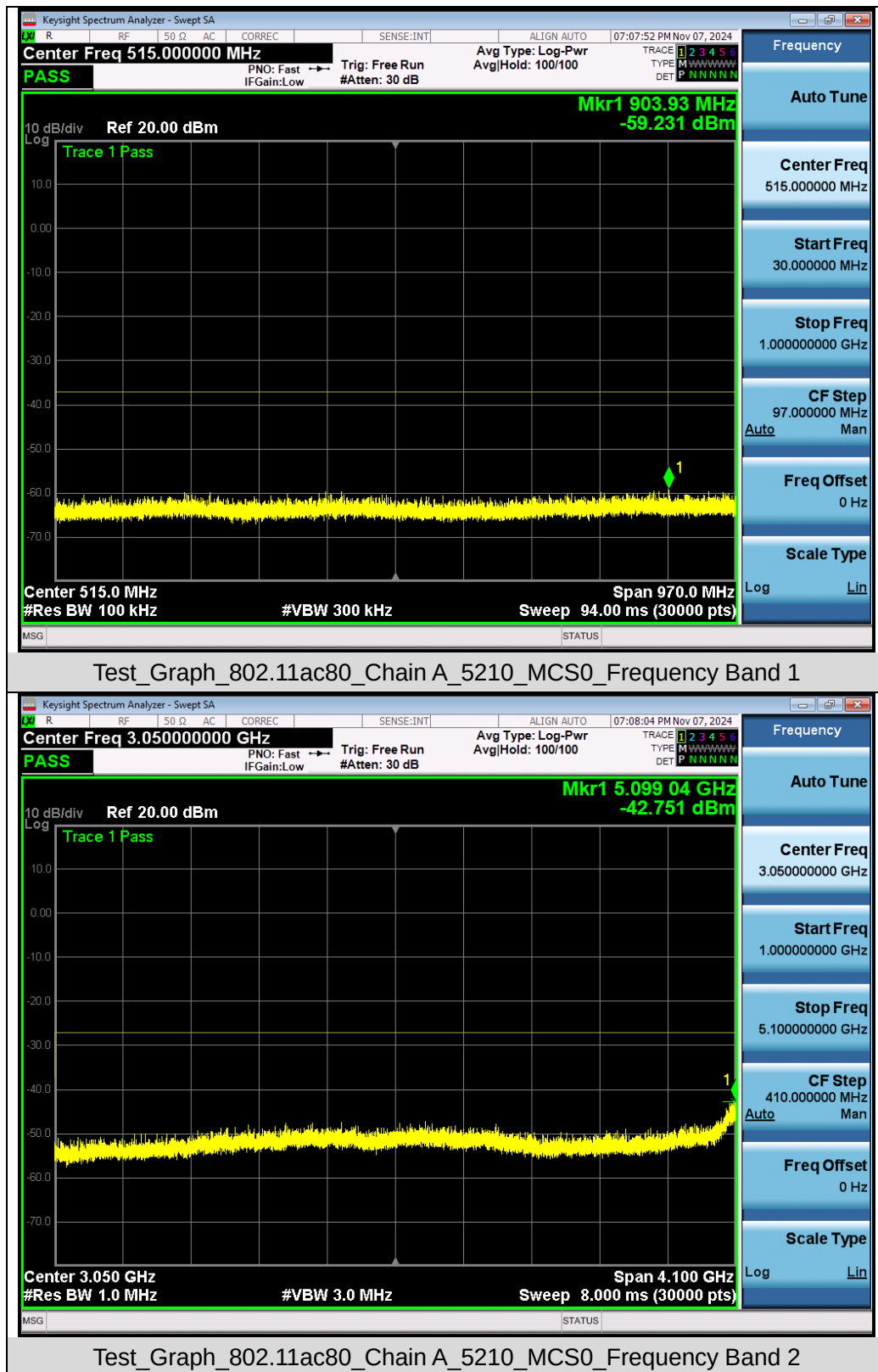
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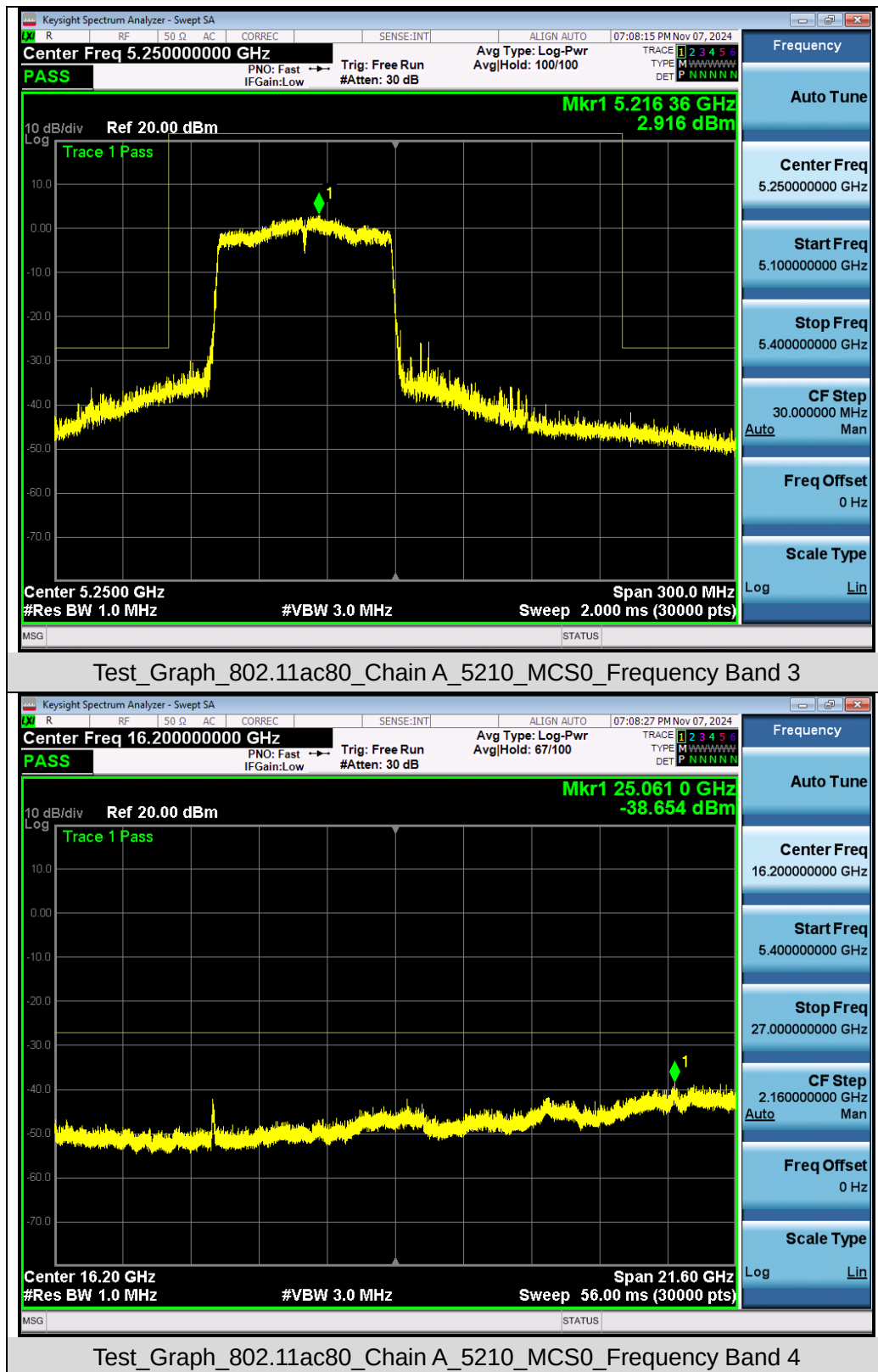
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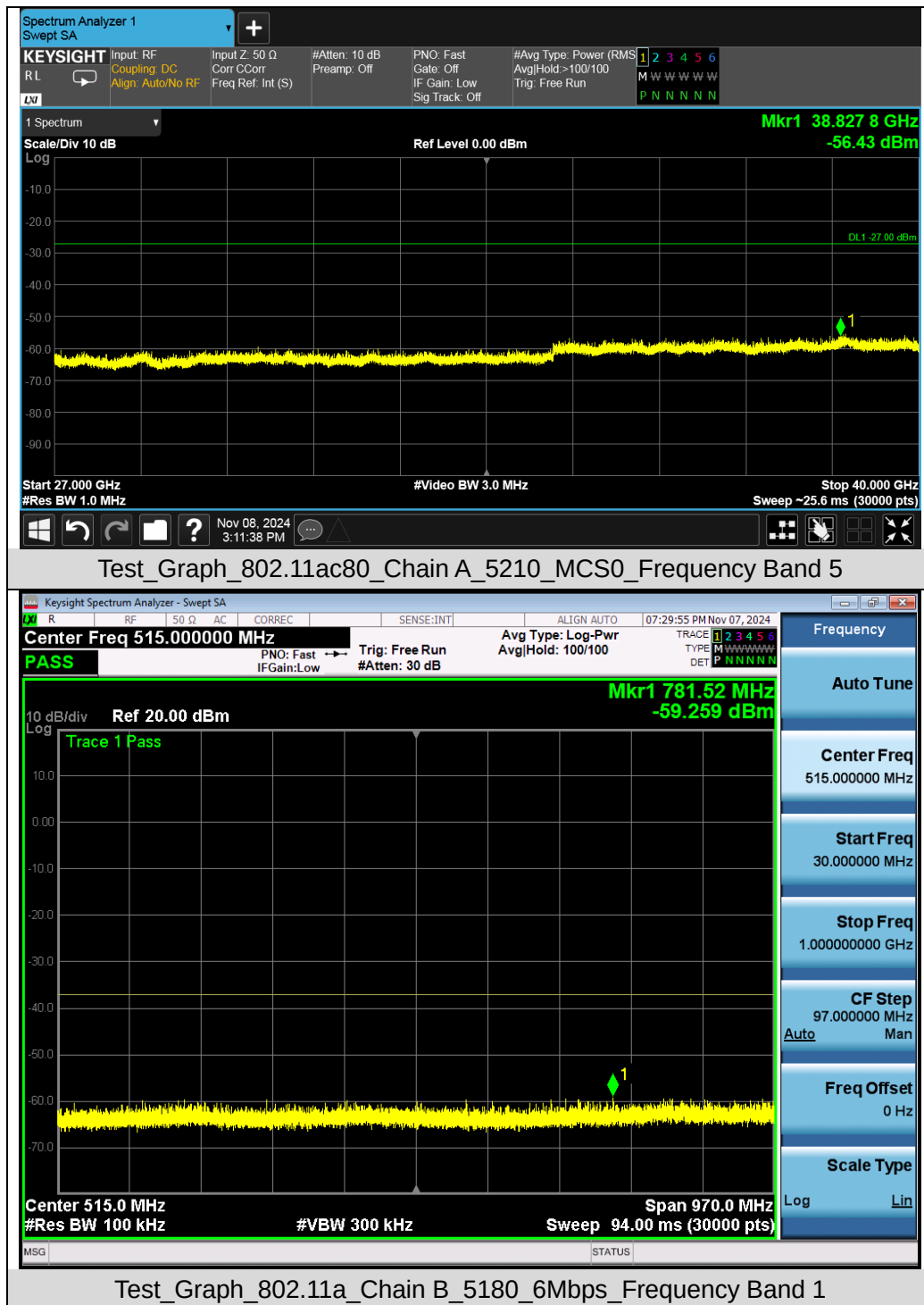


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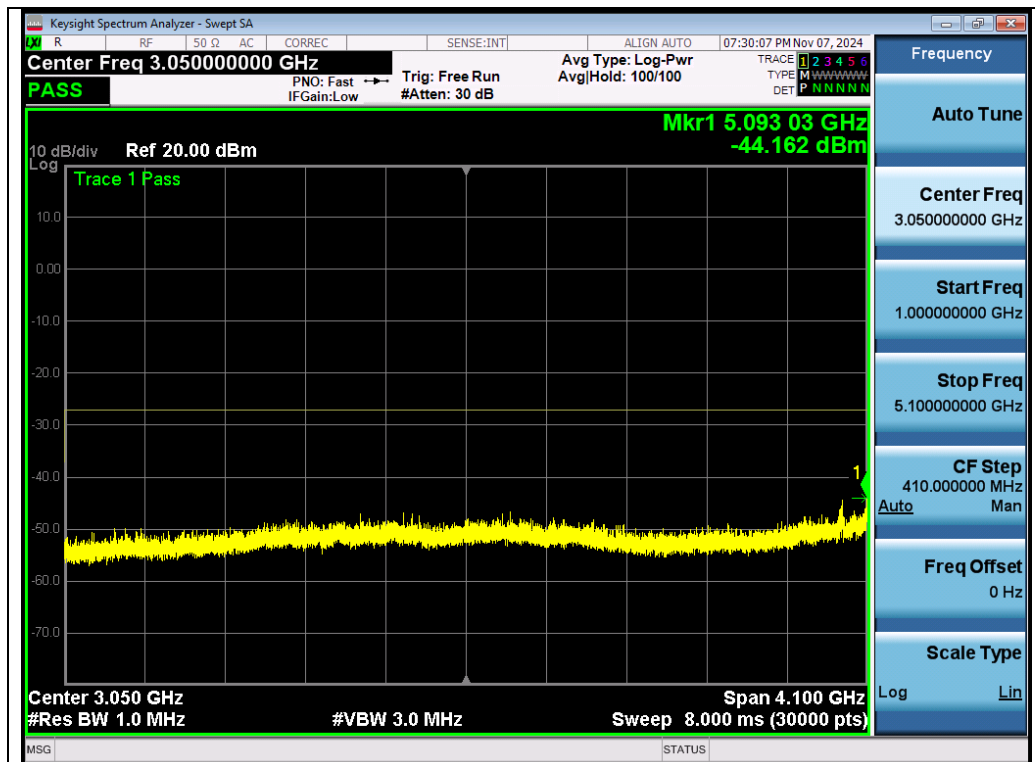


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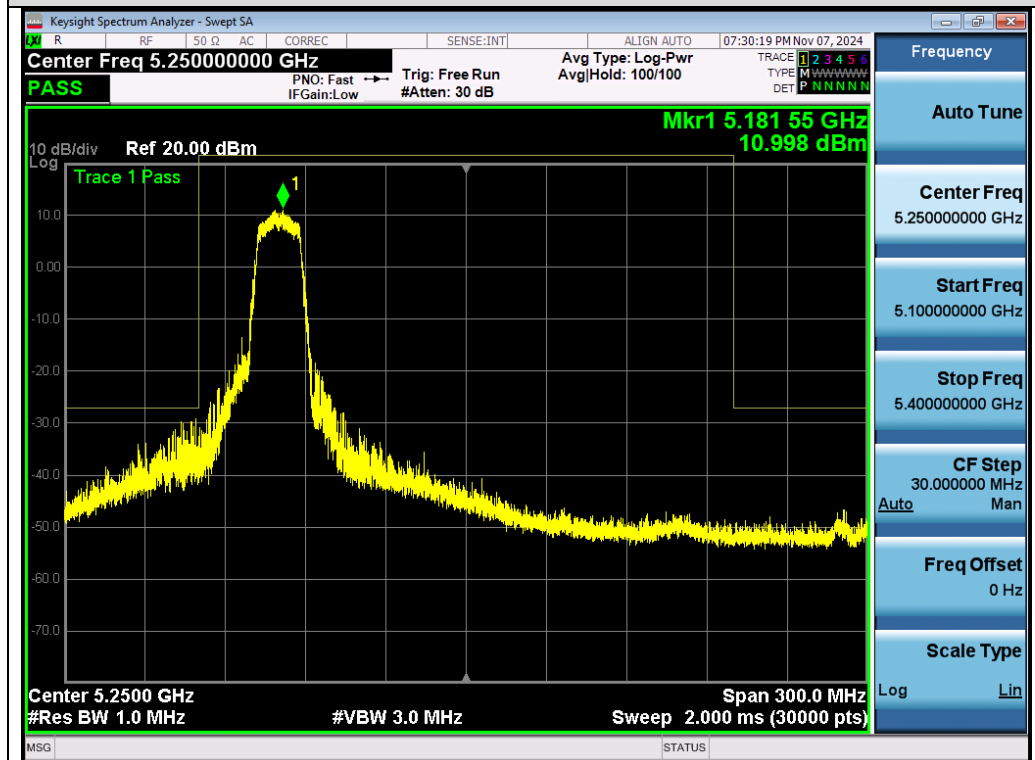
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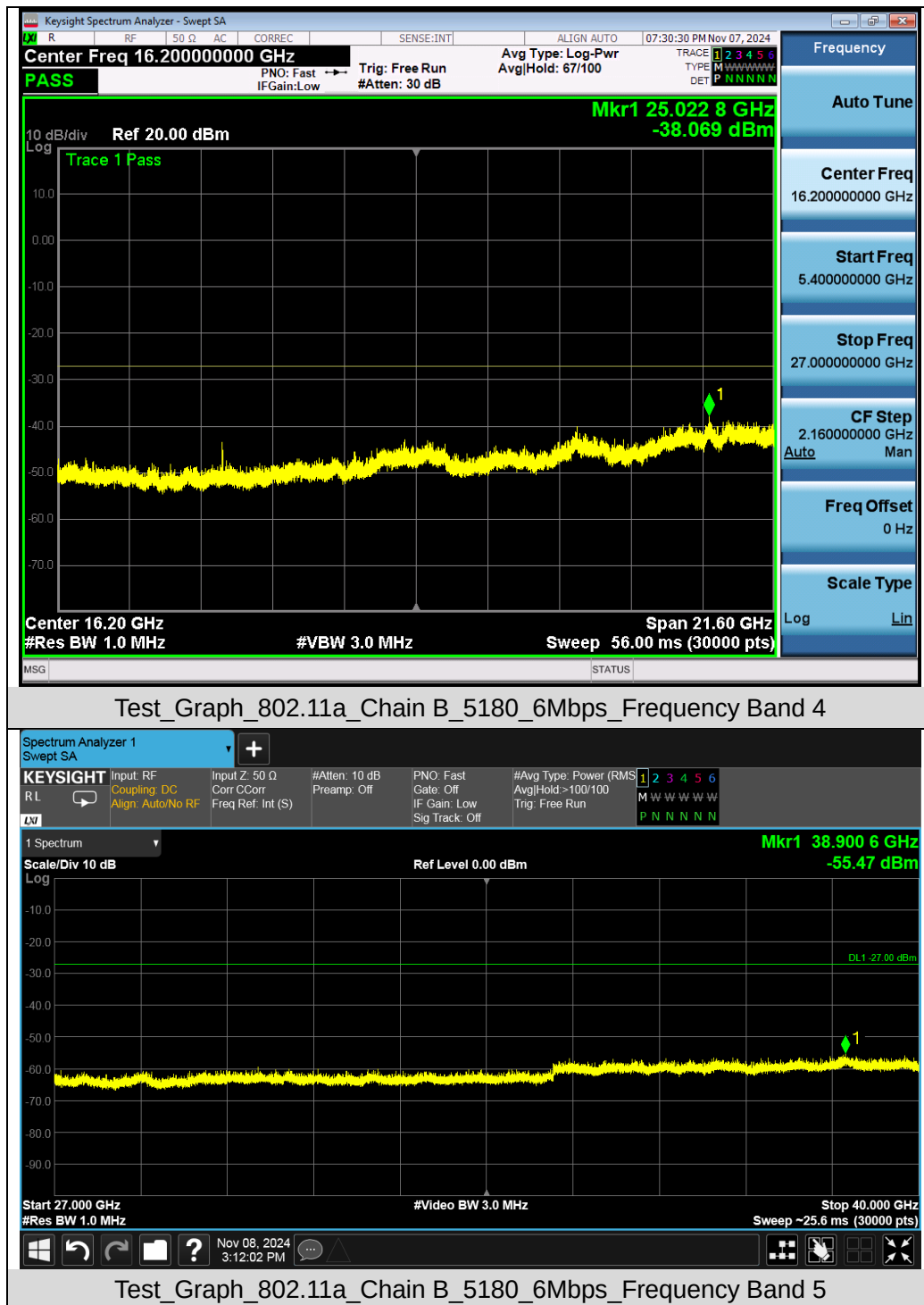


Test\_Graph\_802.11a\_Chain B\_5180\_6Mbps\_Frequency Band 2



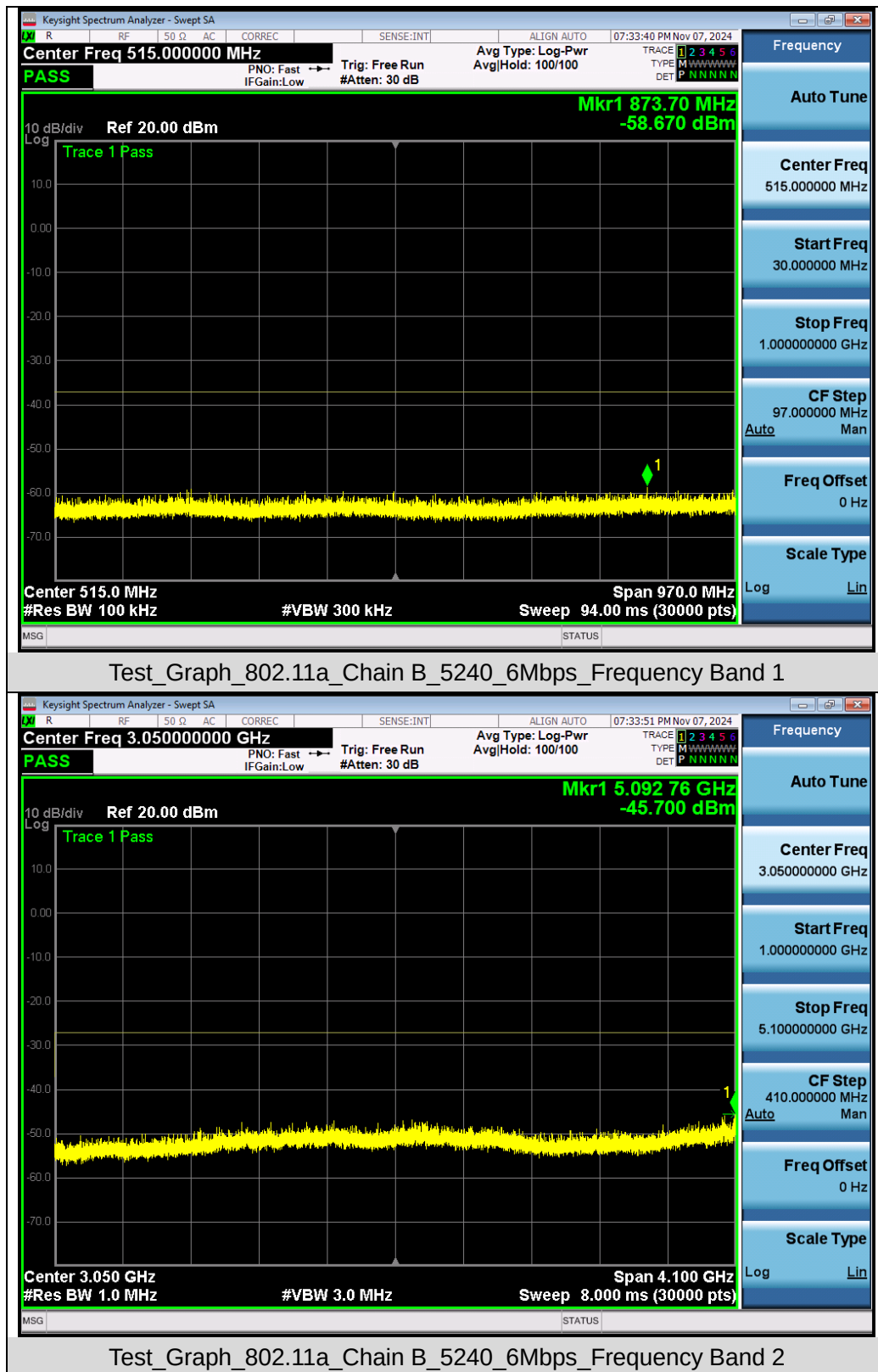
Test\_Graph\_802.11a\_Chain B\_5180\_6Mbps\_Frequency Band 3

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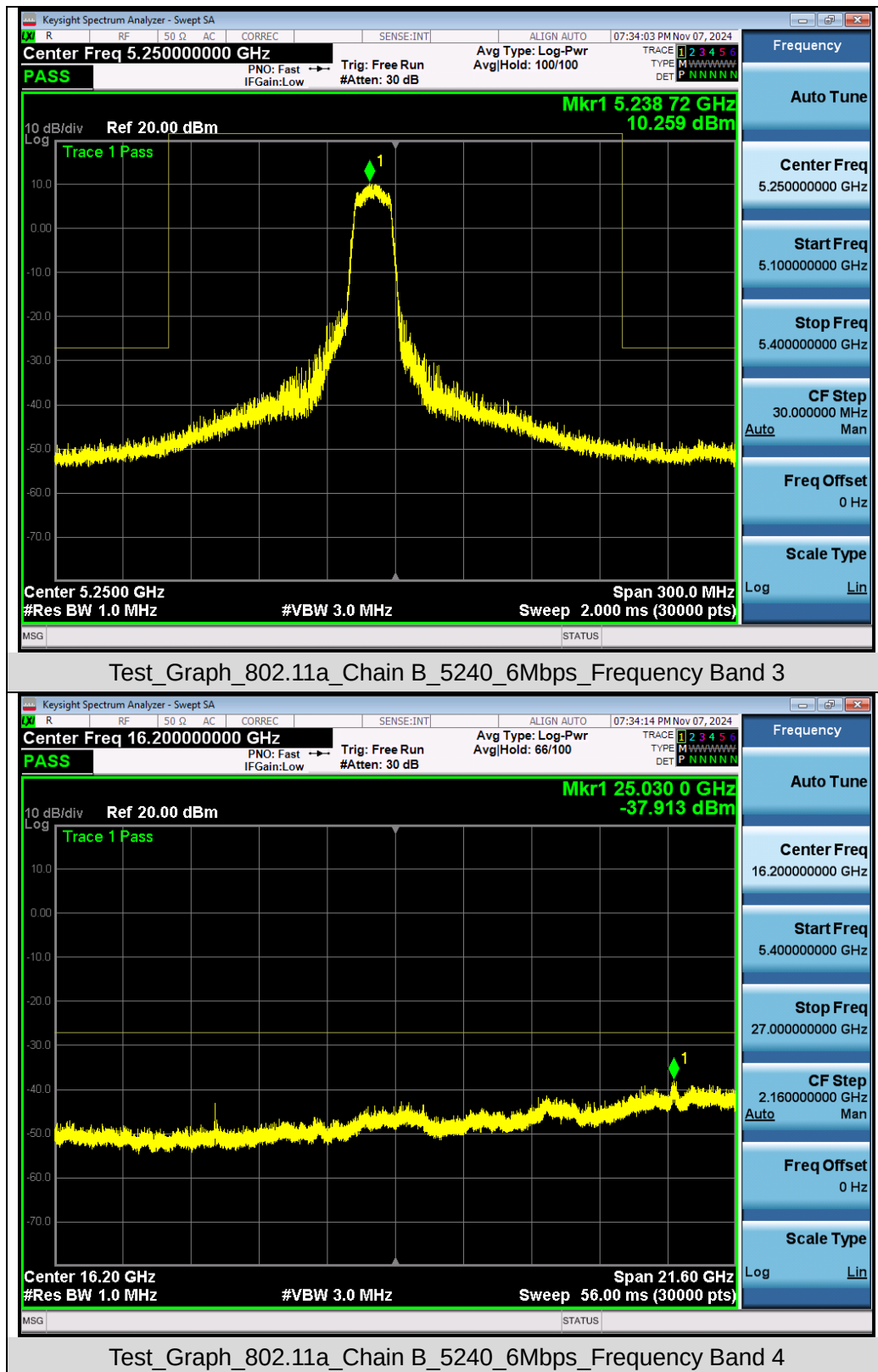


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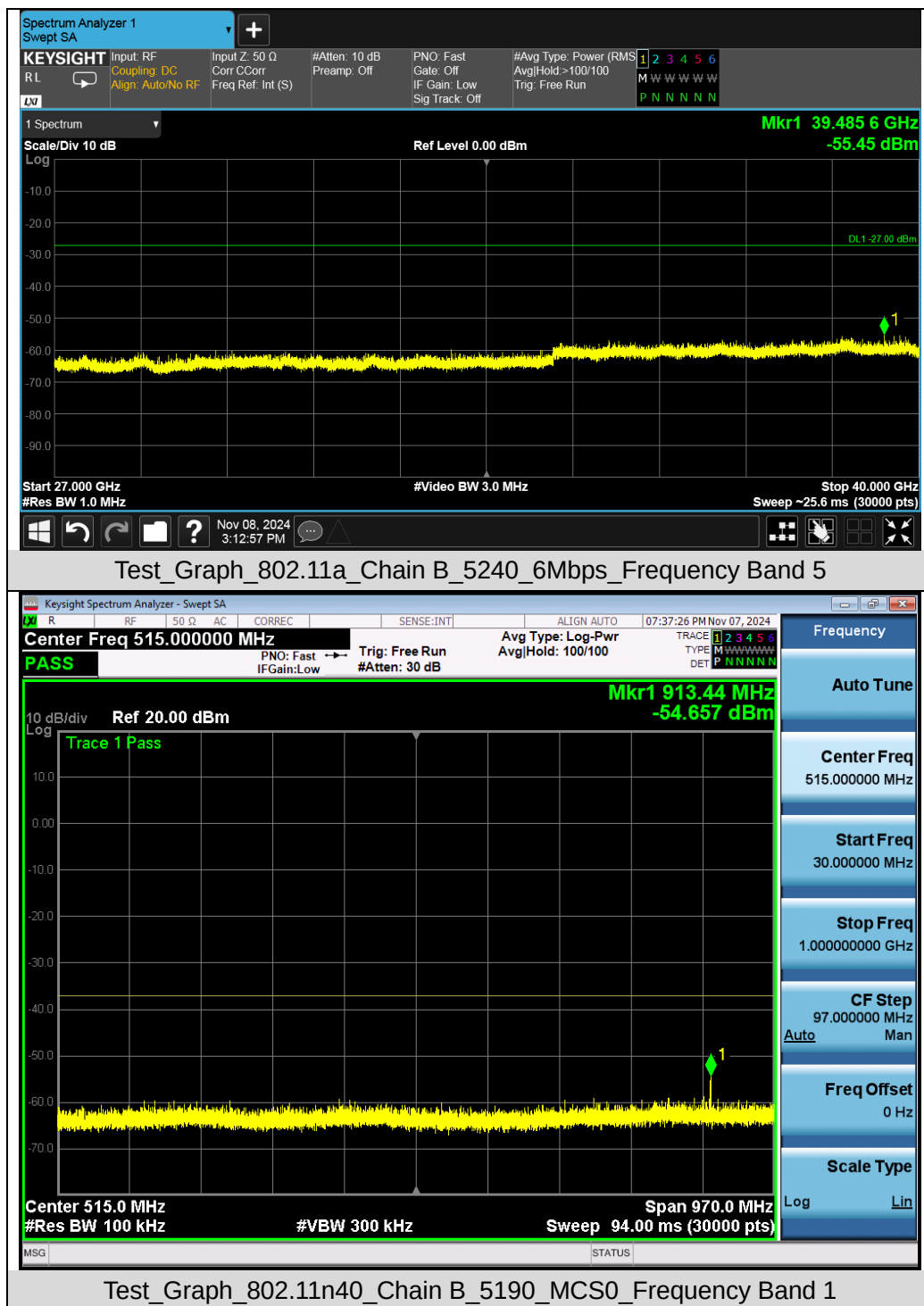


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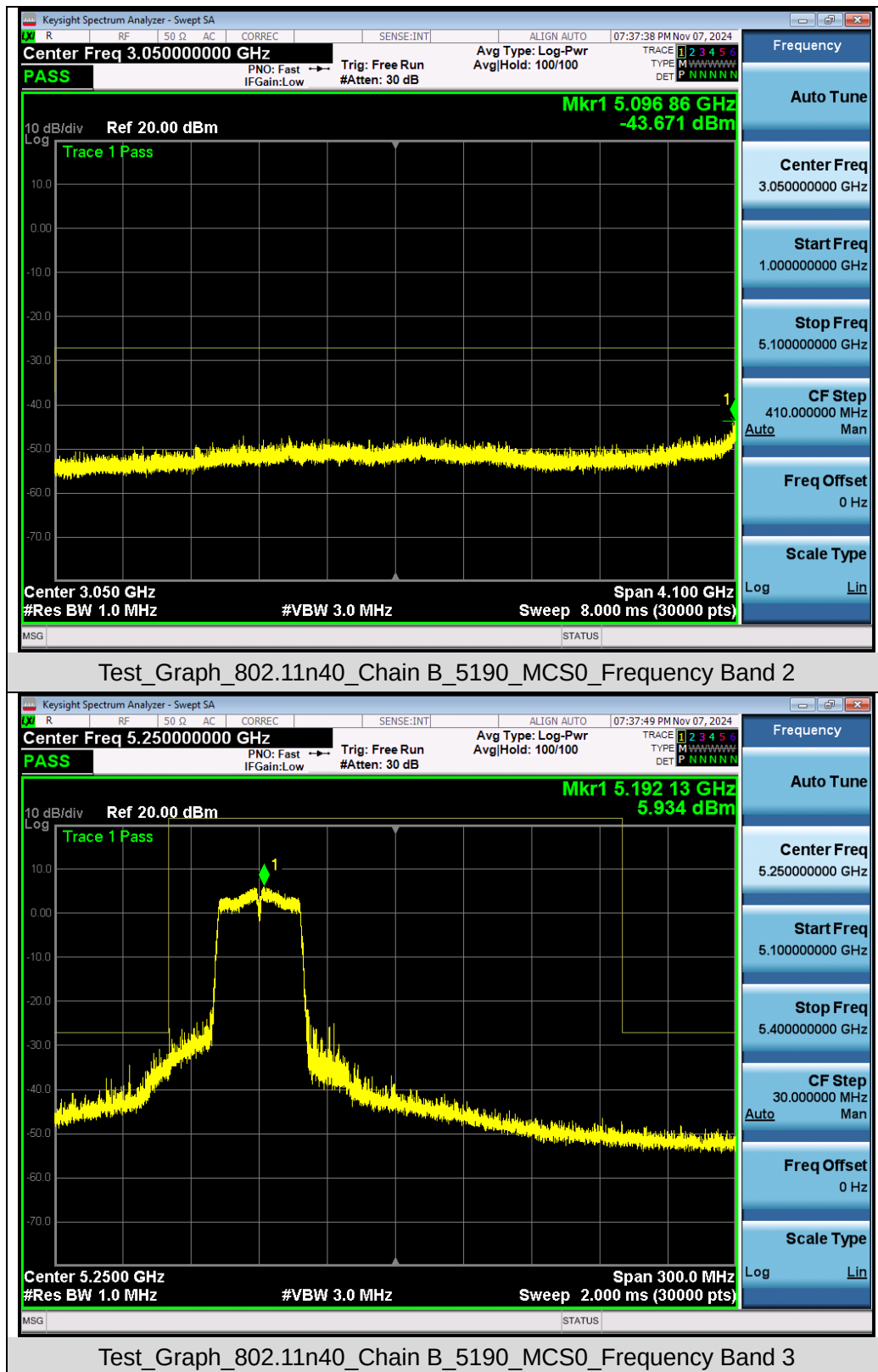


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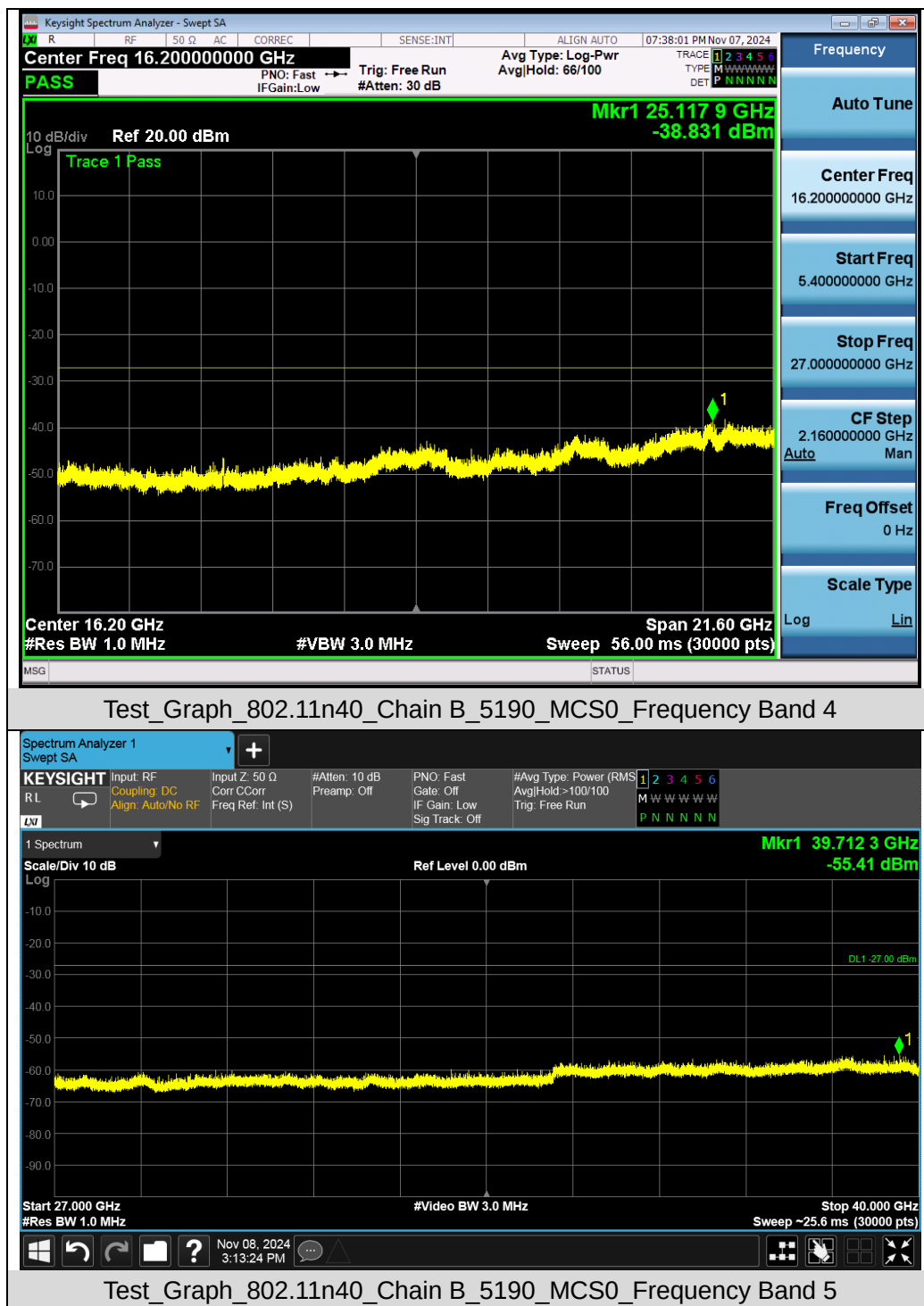
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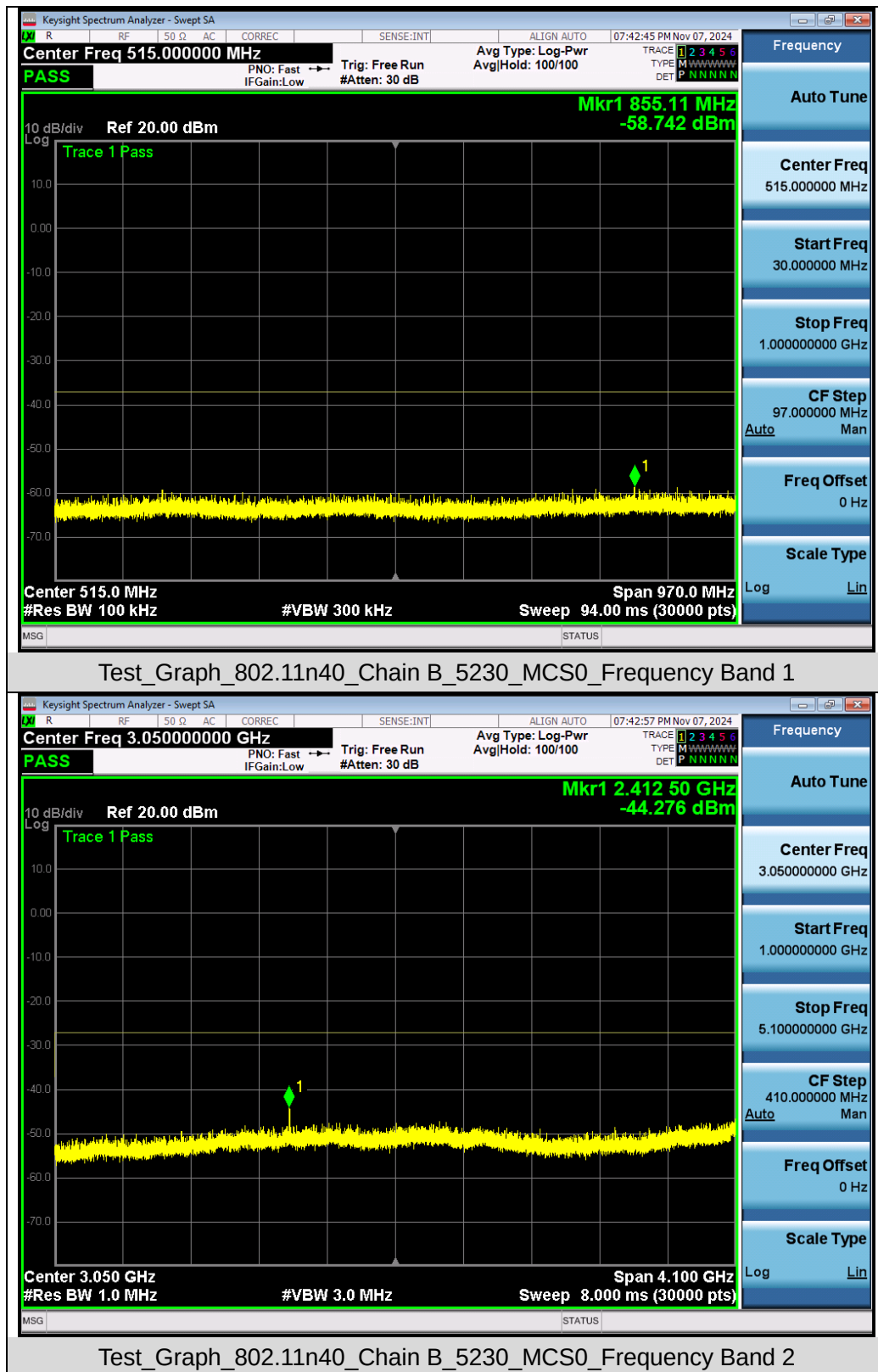
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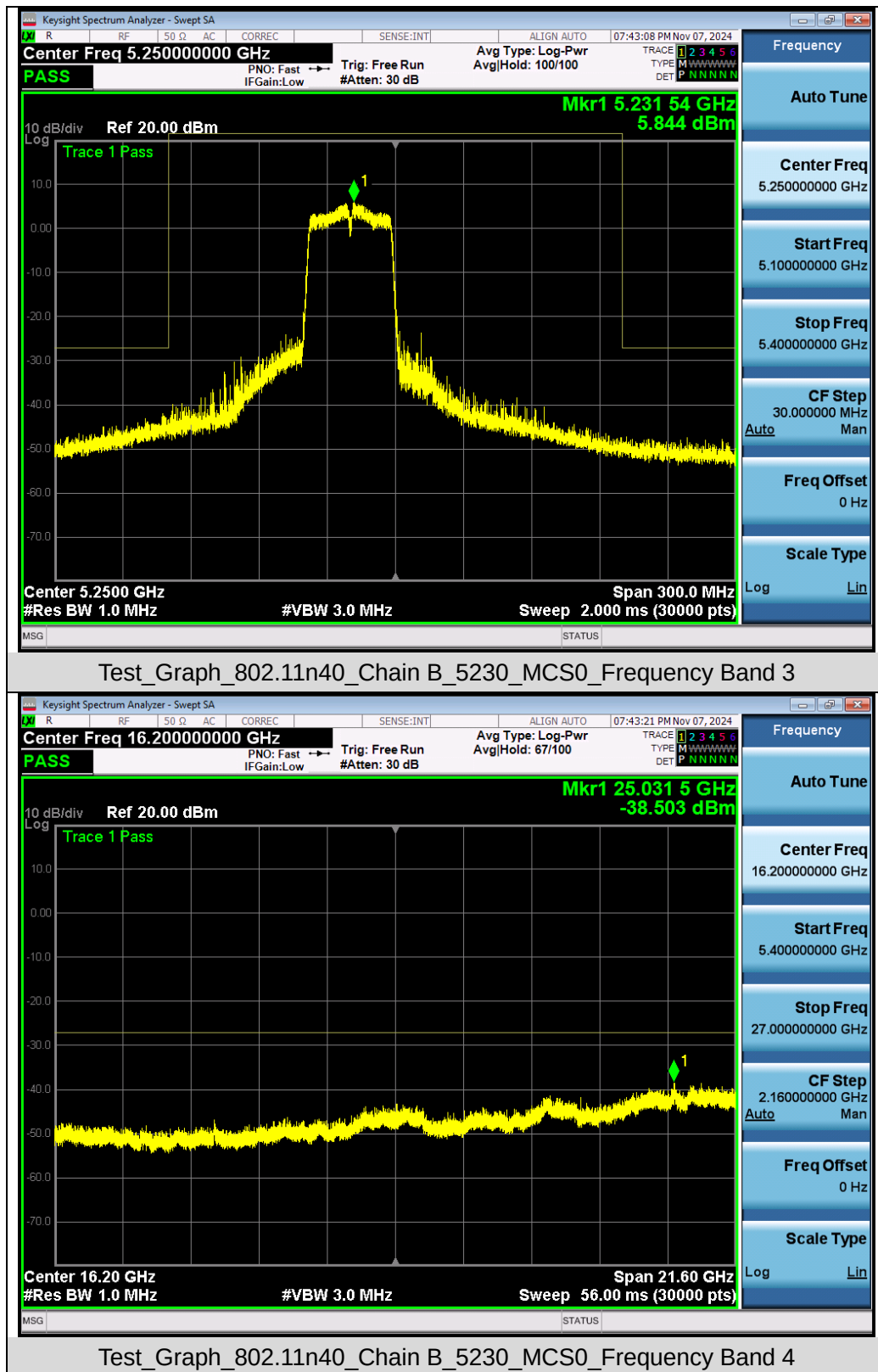


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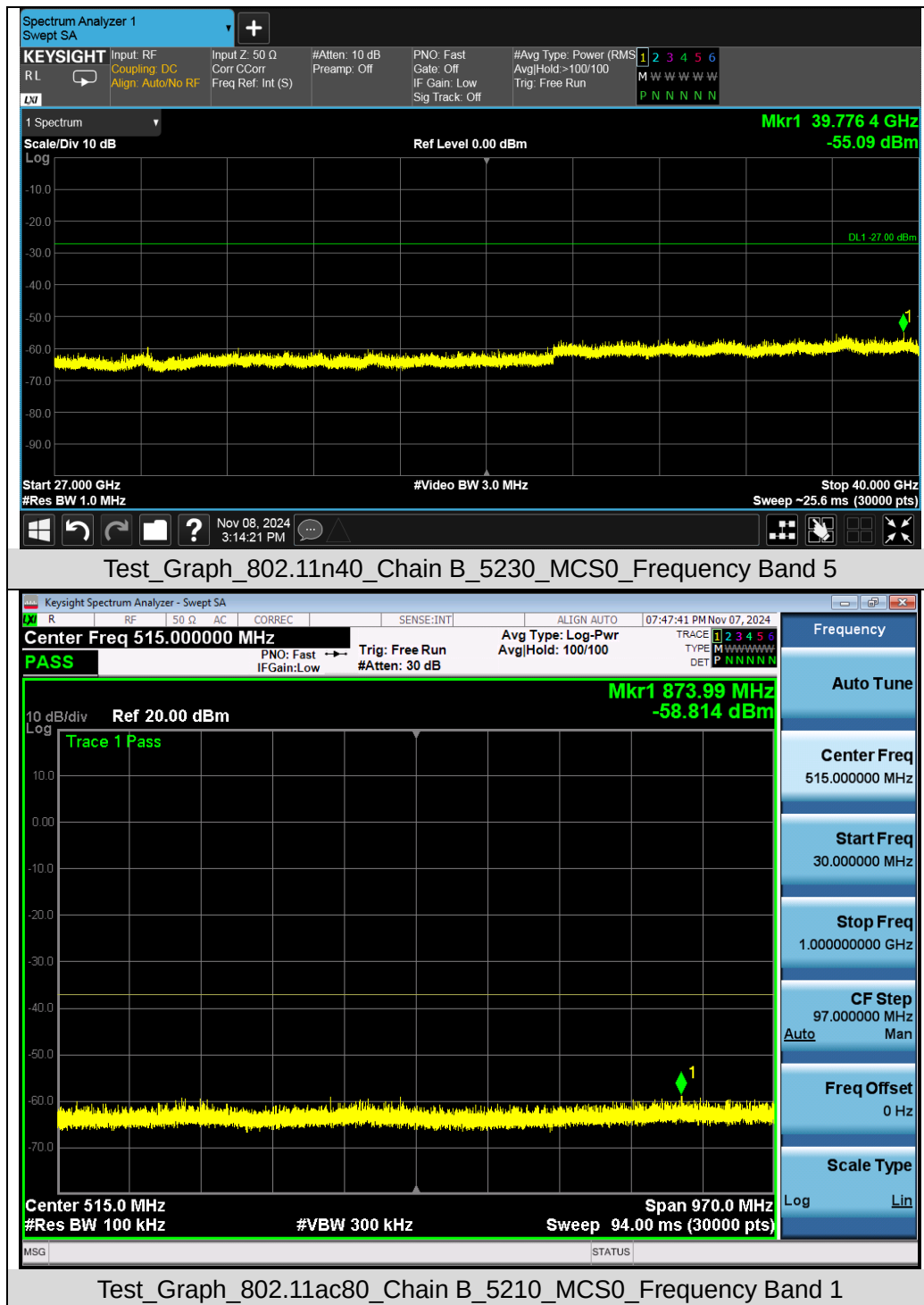
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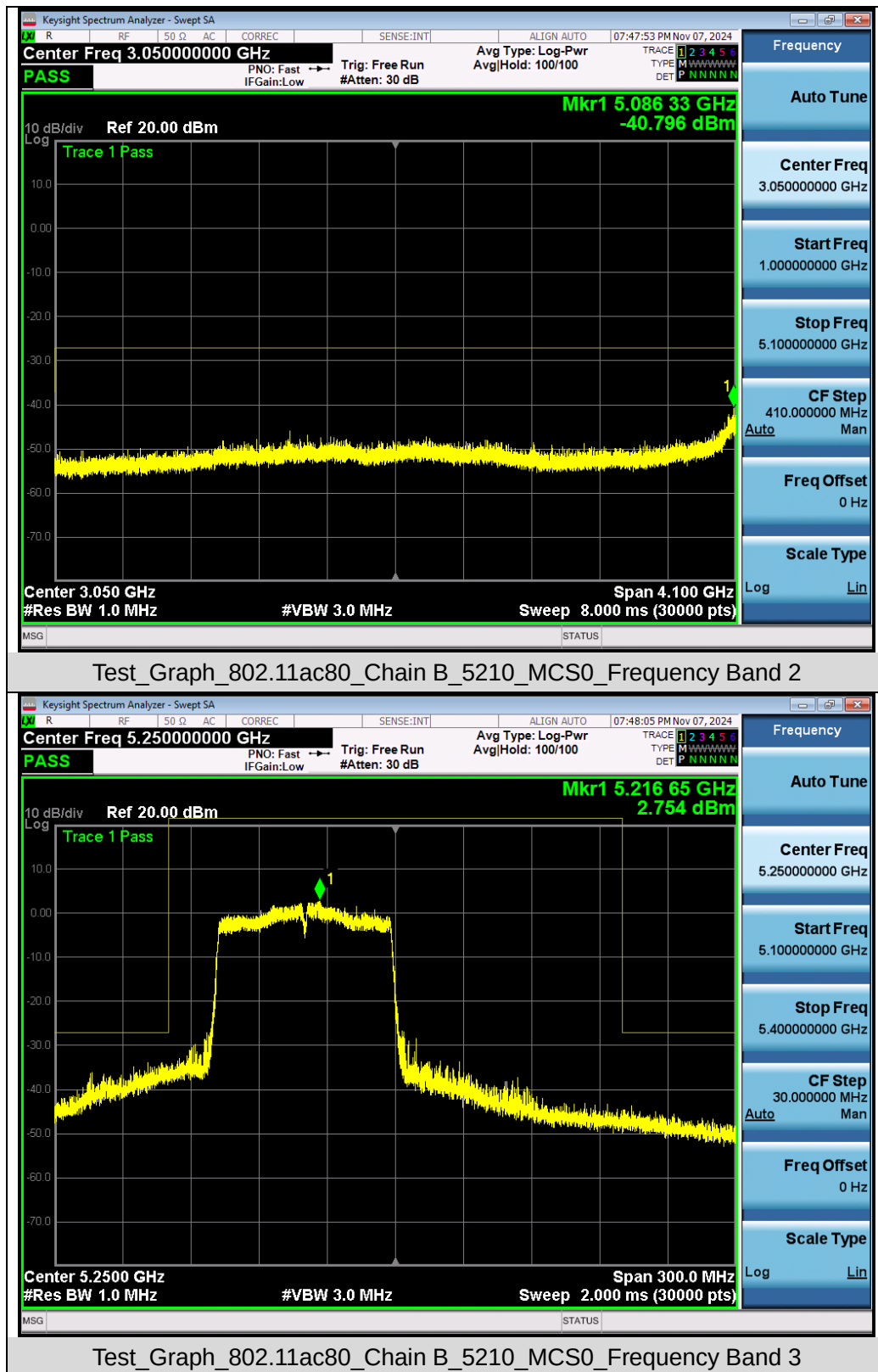
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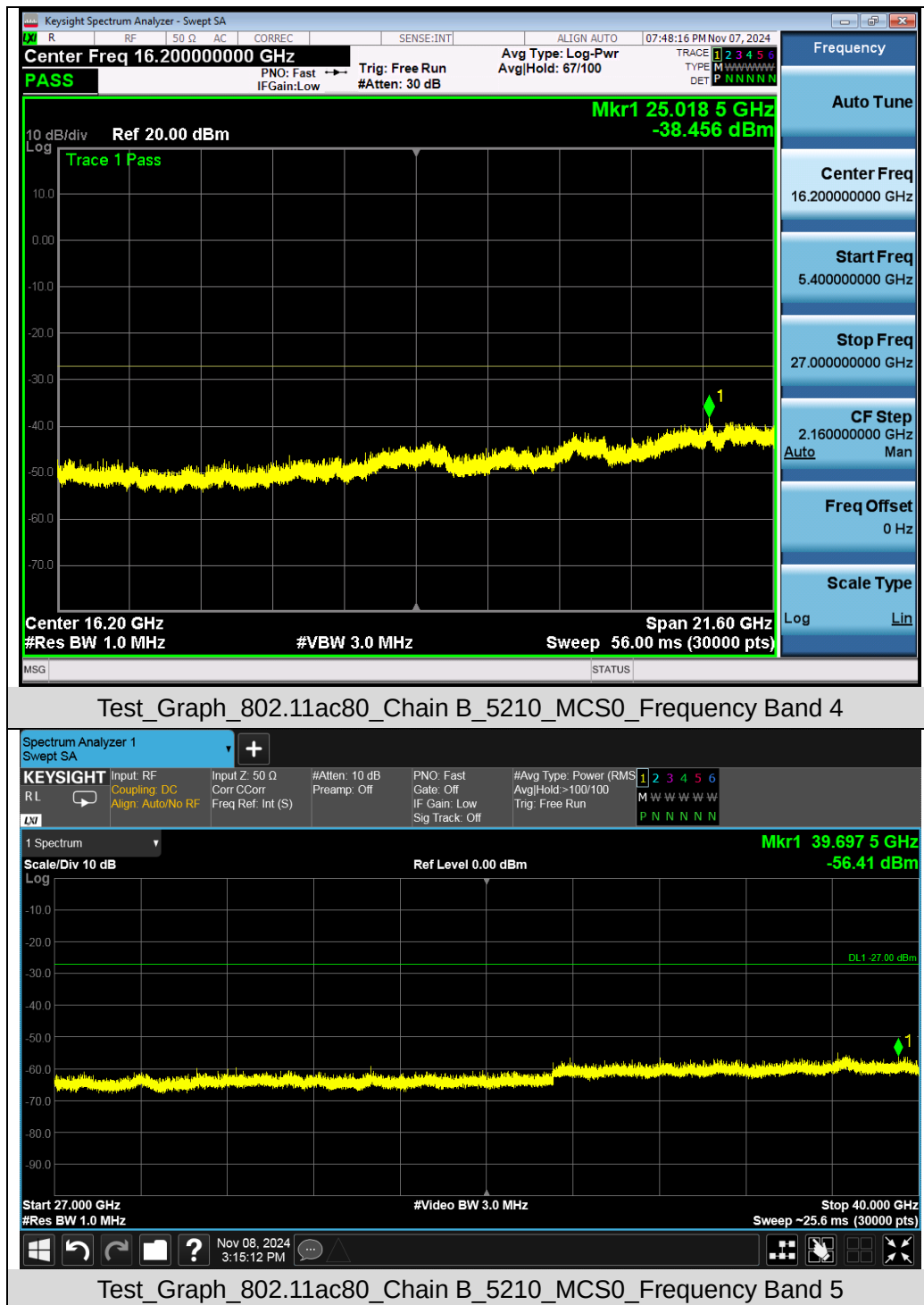
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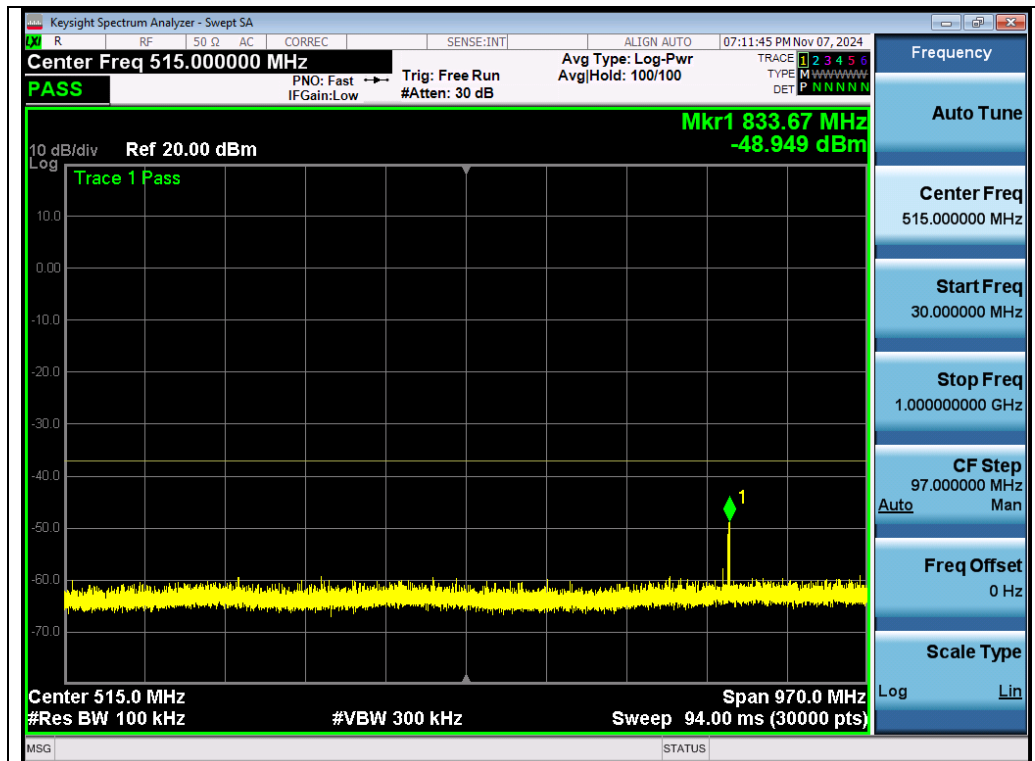
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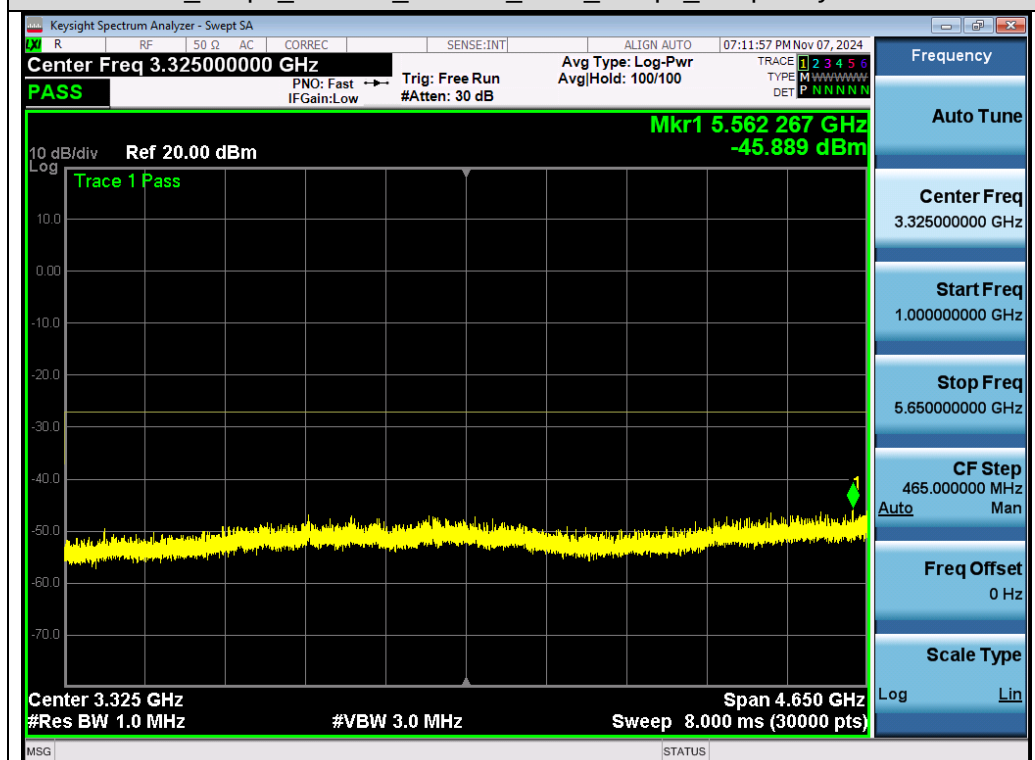


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### Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band

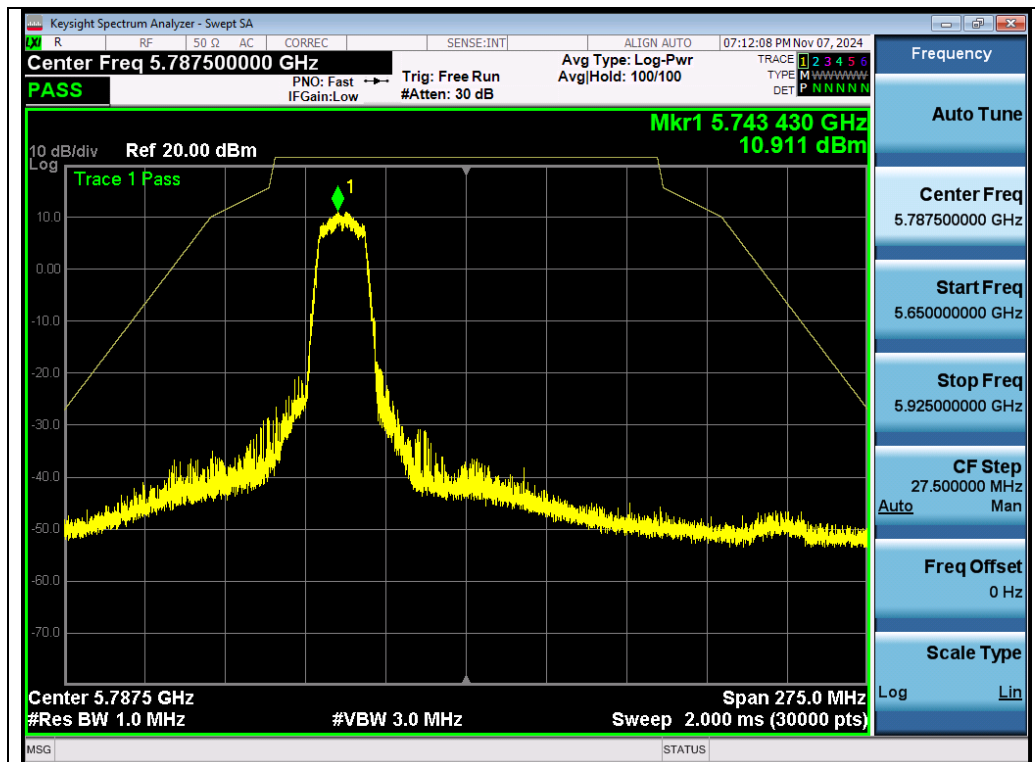


Test\_Graph\_802.11a\_Chain A\_5745\_6Mbps\_Frequency Band1

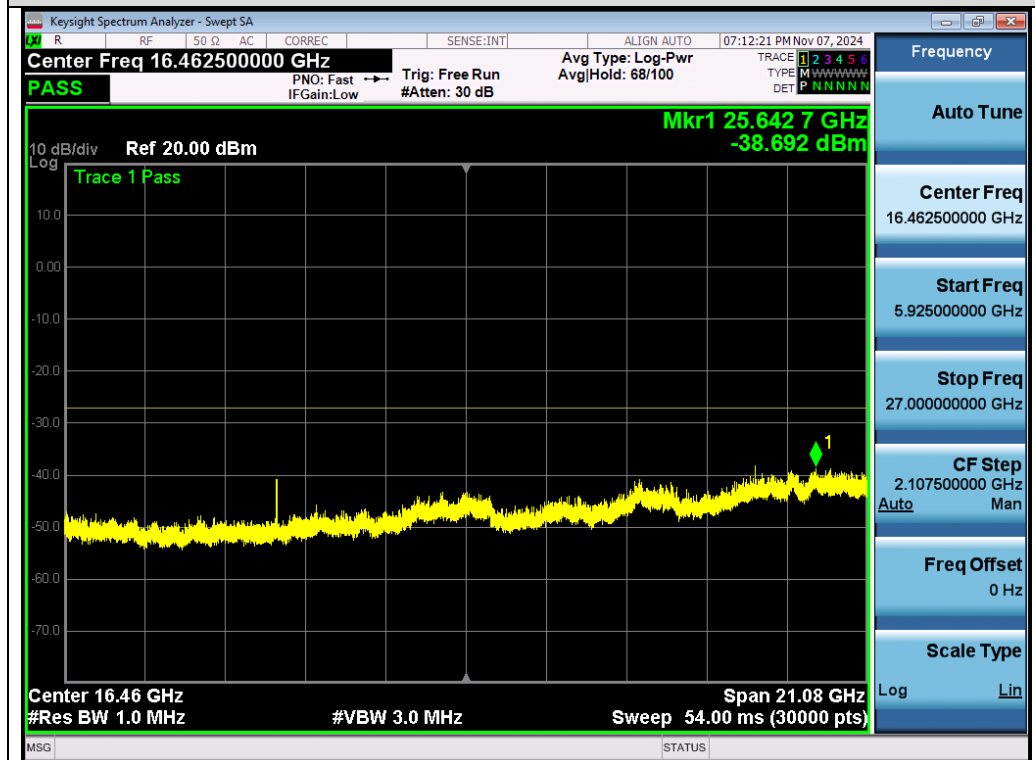


Test\_Graph\_802.11a\_Chain A\_5745\_6Mbps\_Frequency Band2

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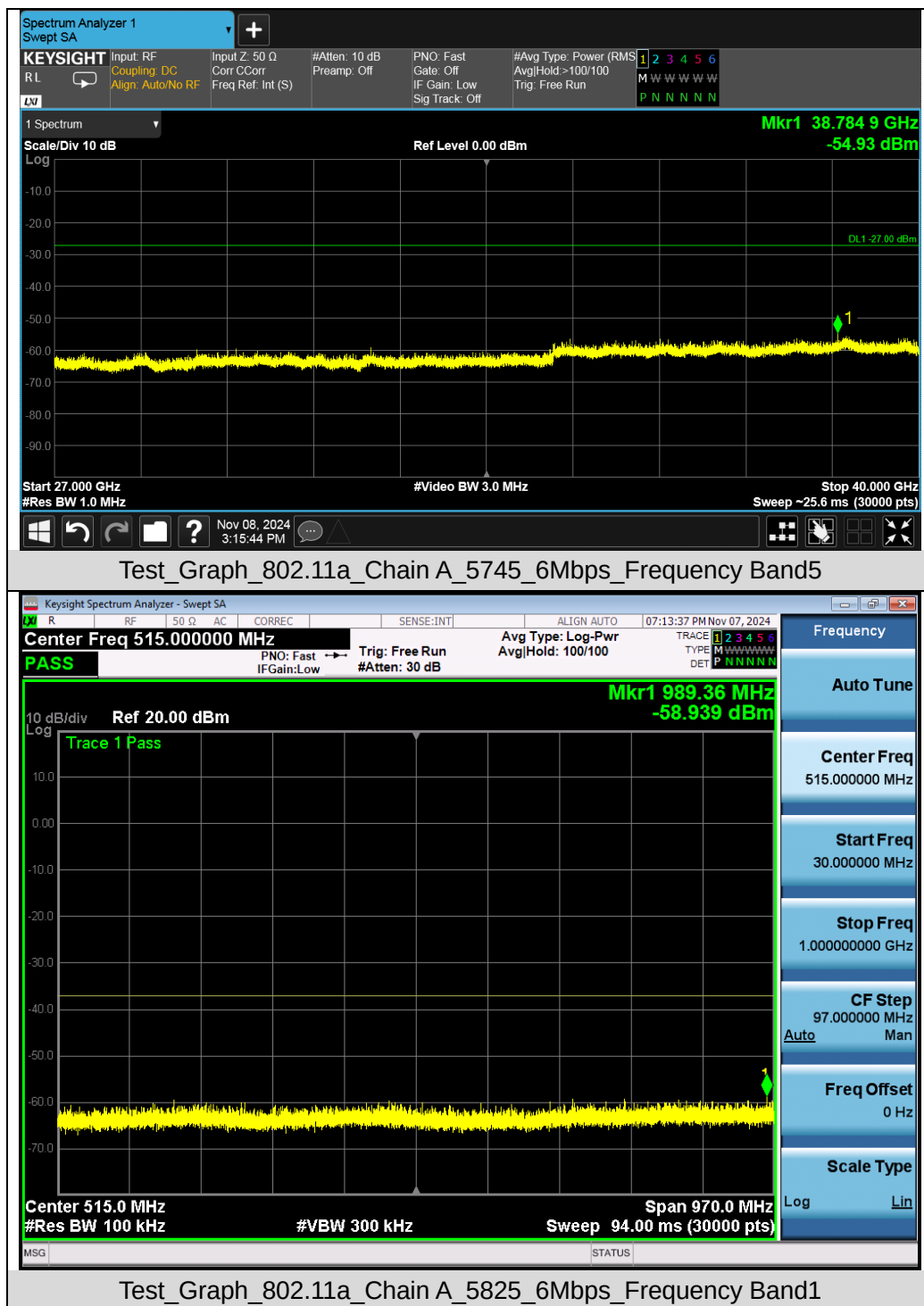


Test\_Graph\_802.11a\_Chain A\_5745\_6Mbps\_Frequency Band3



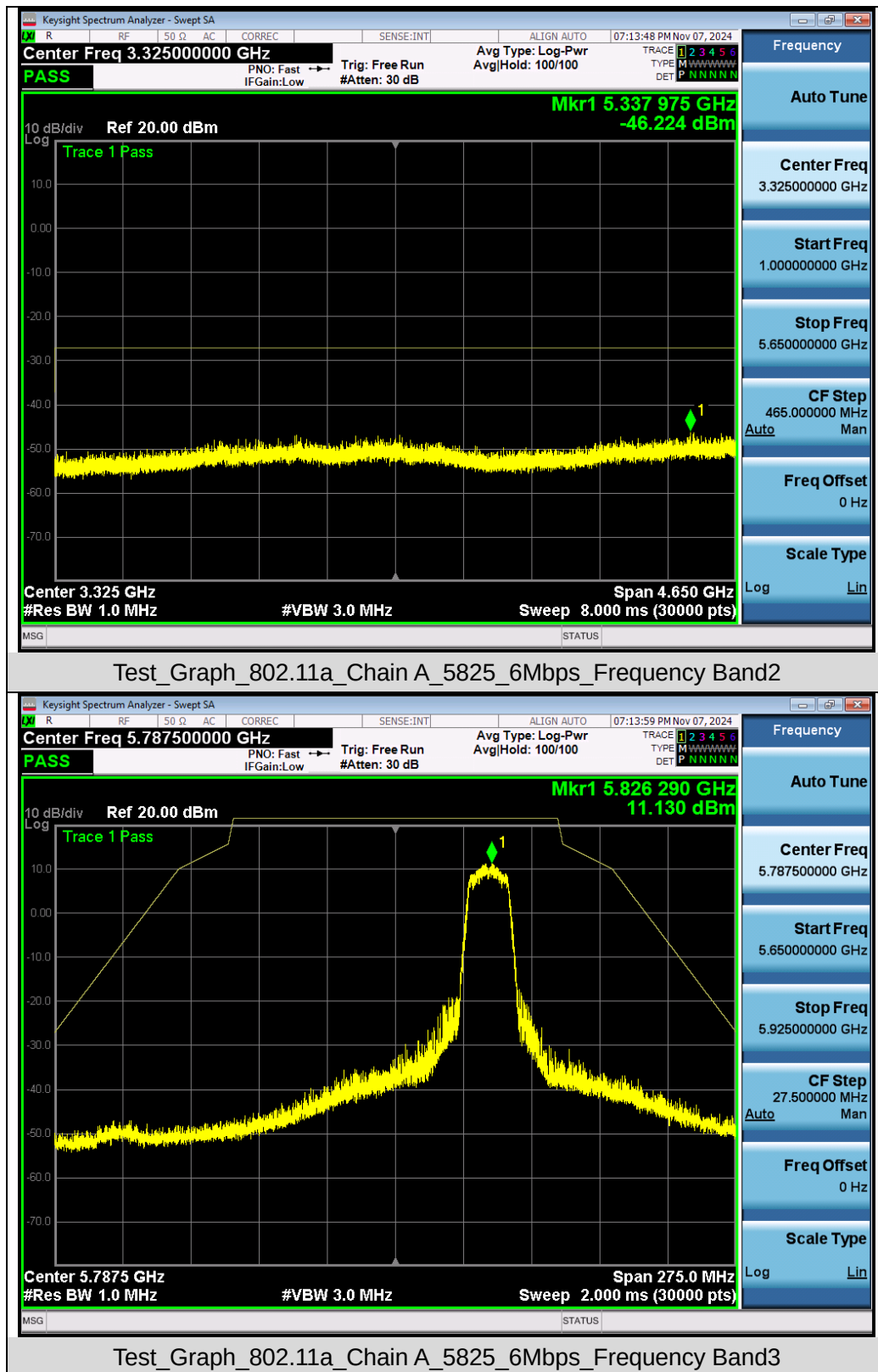
Test\_Graph\_802.11a\_Chain A\_5745\_6Mbps\_Frequency Band4

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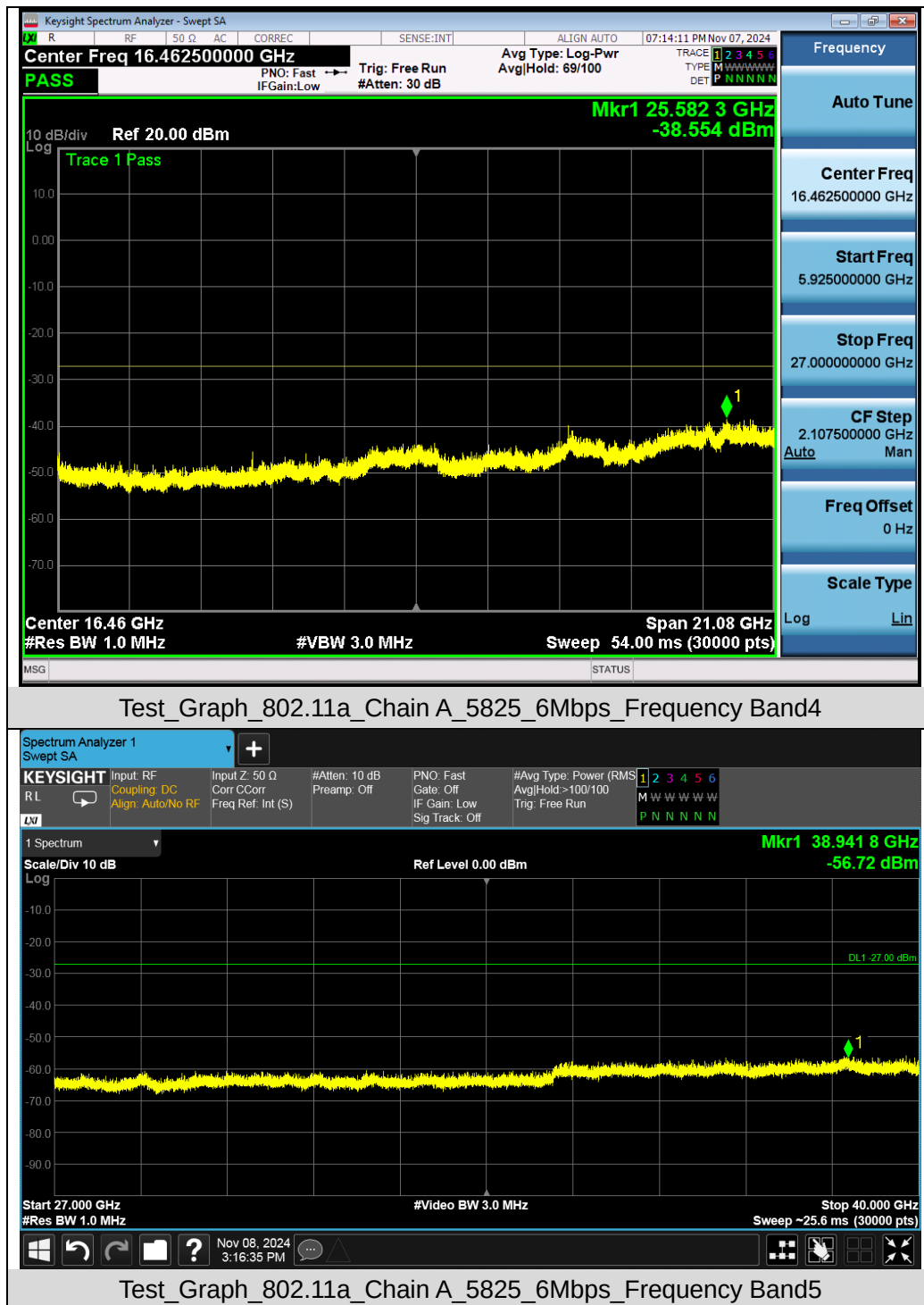
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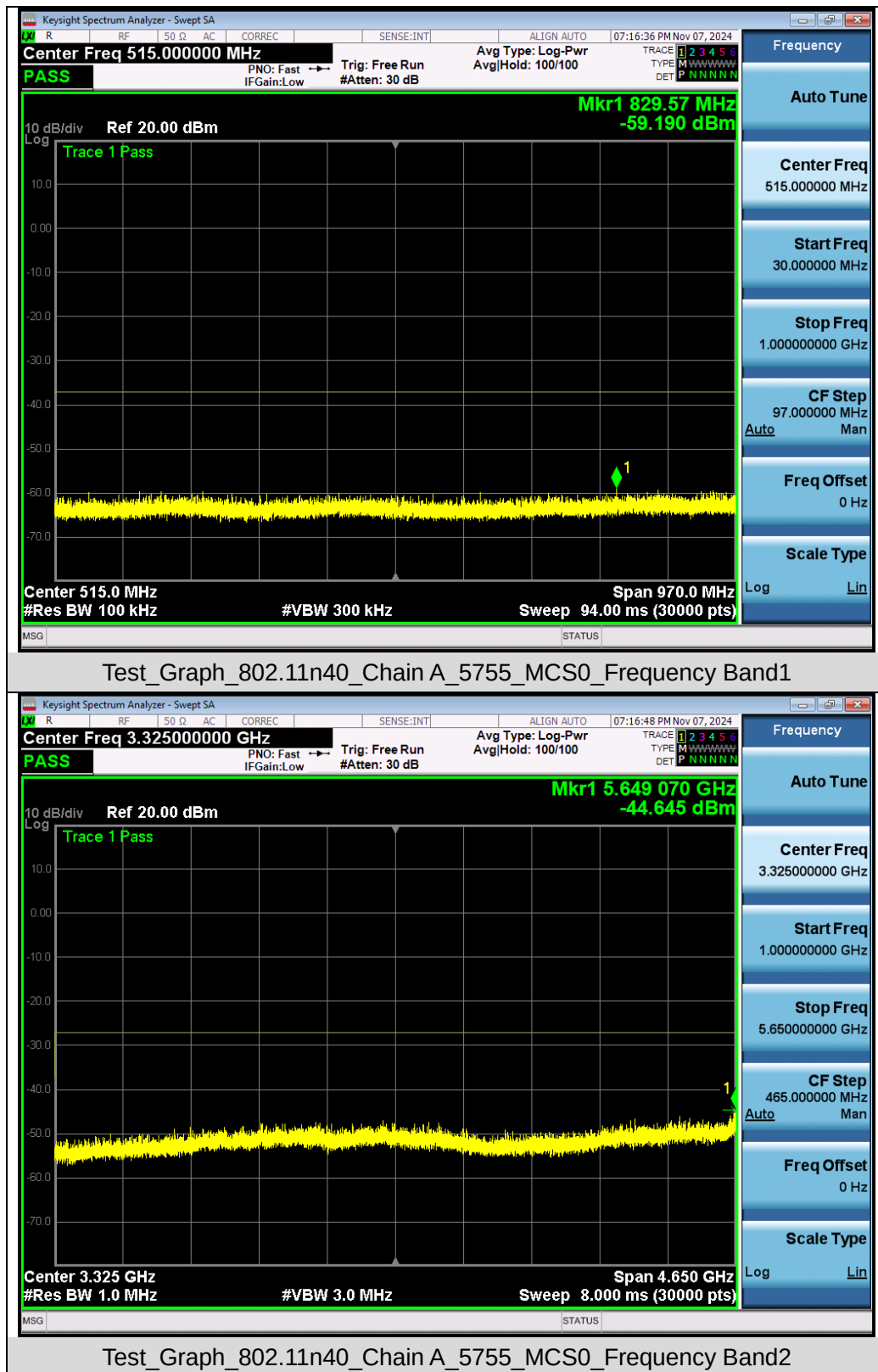
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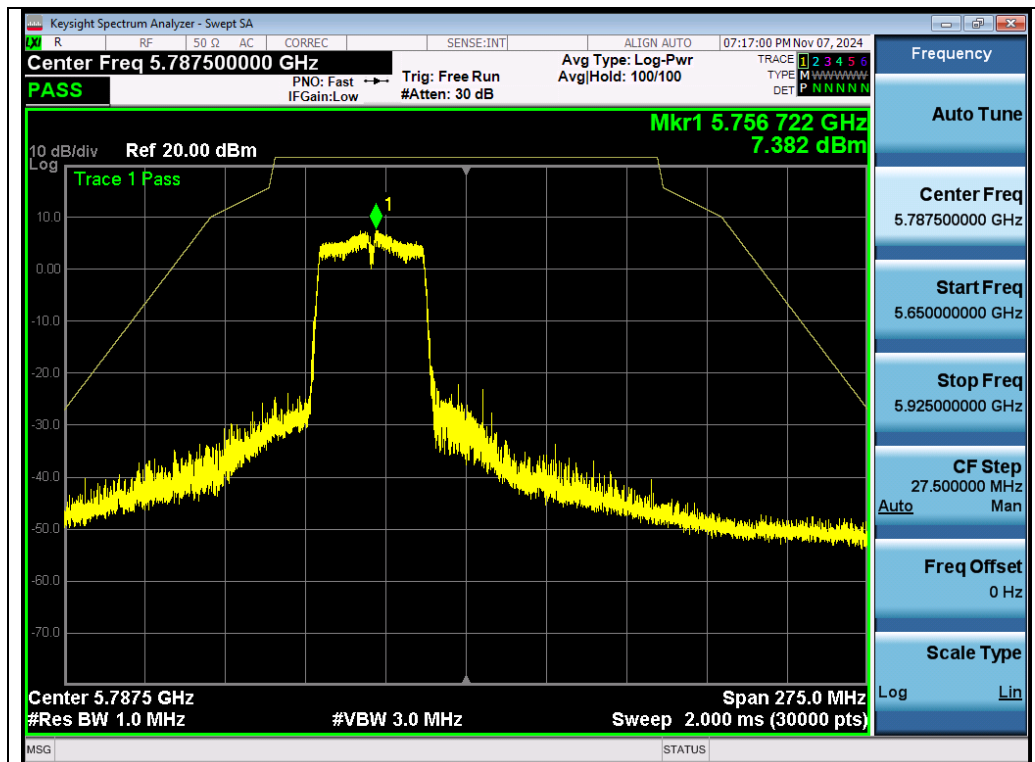
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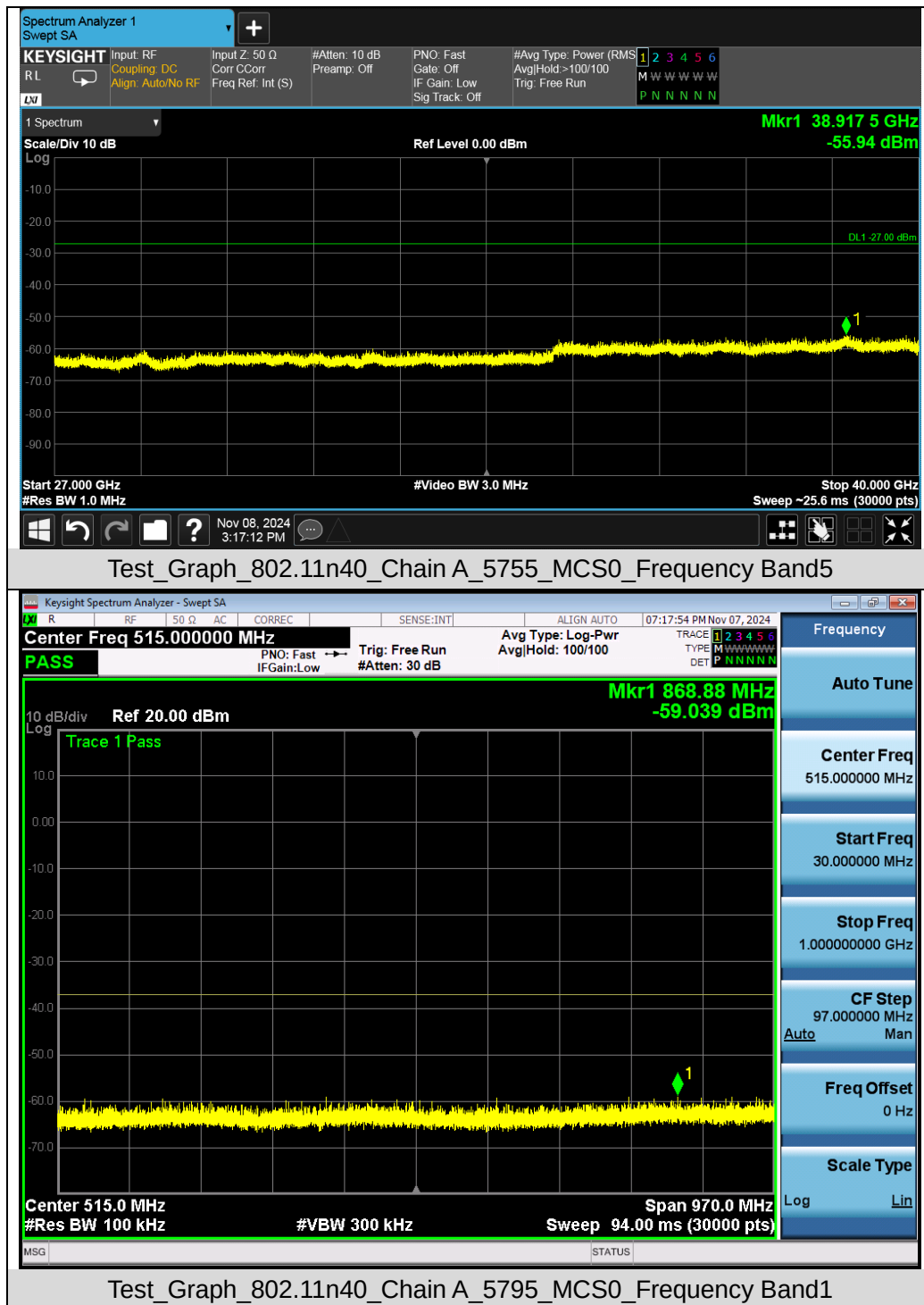


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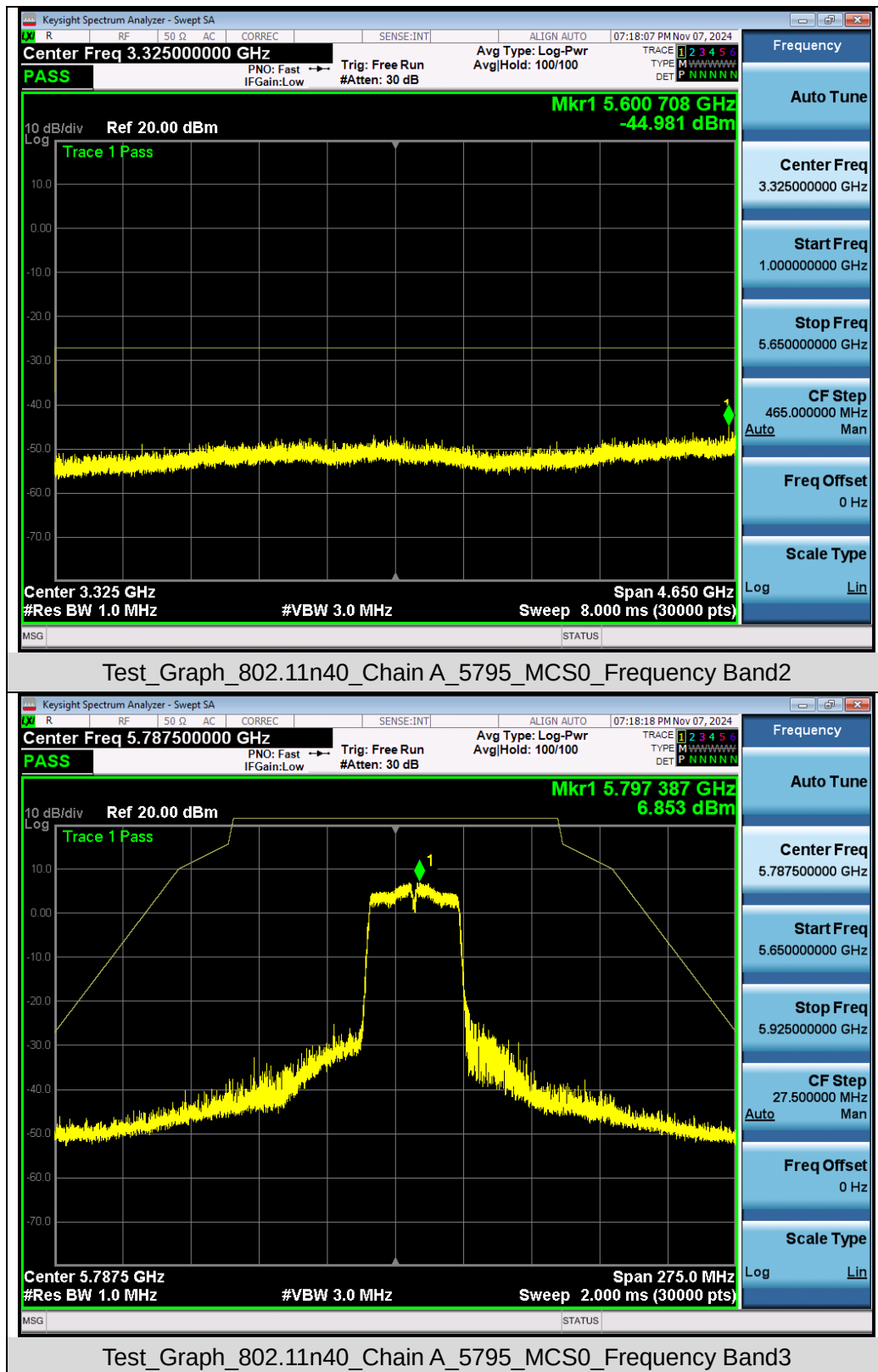
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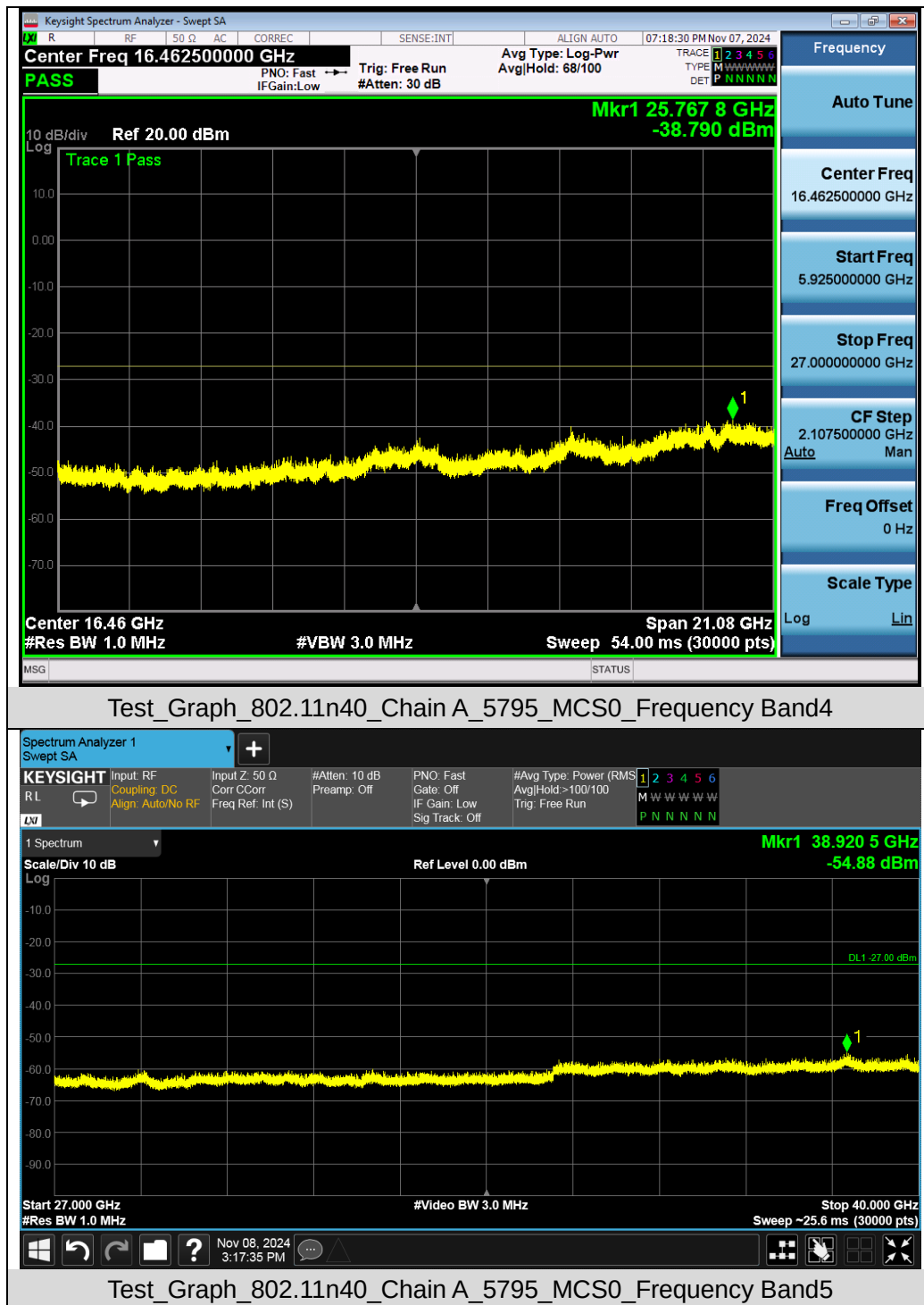
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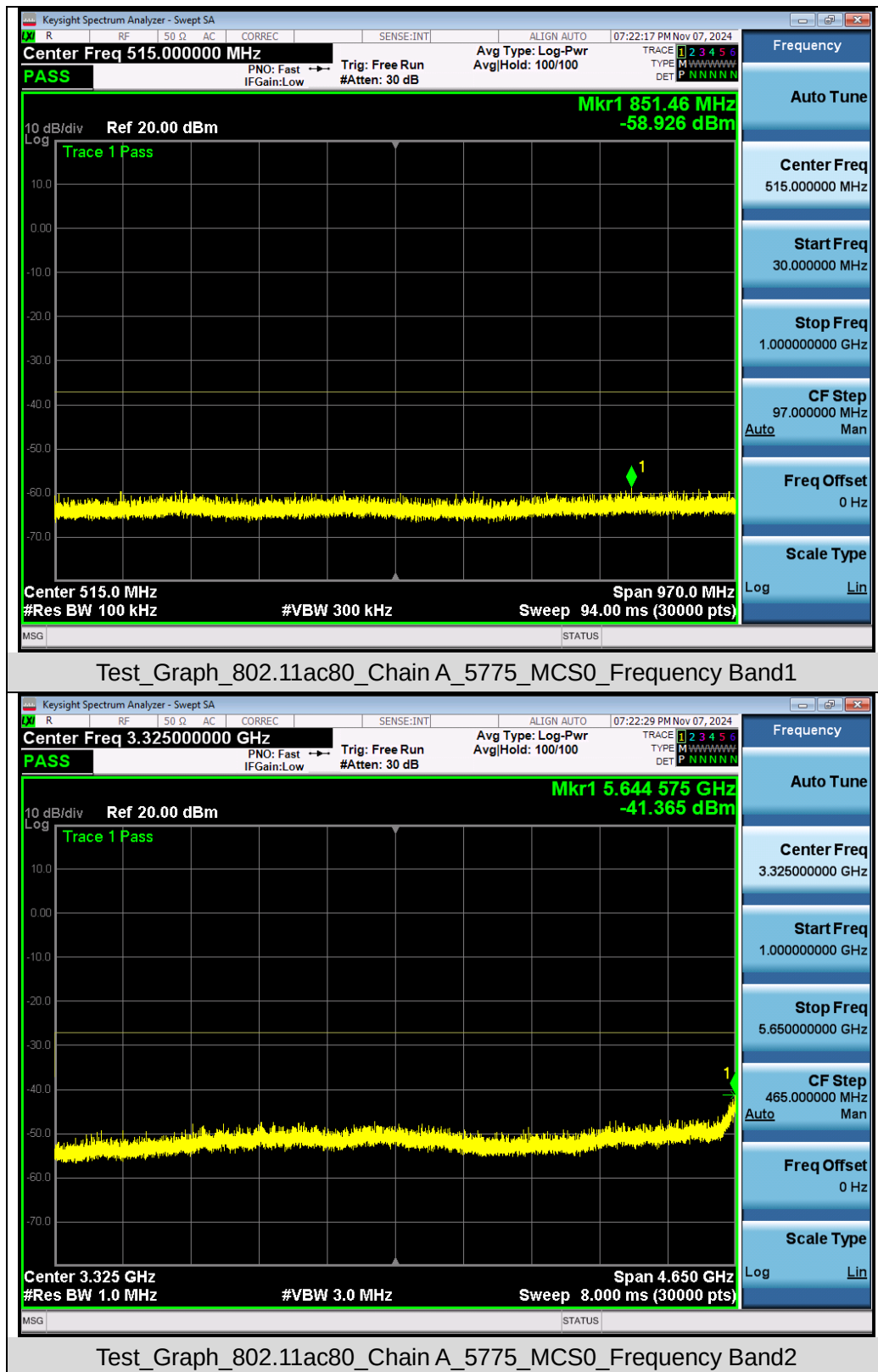


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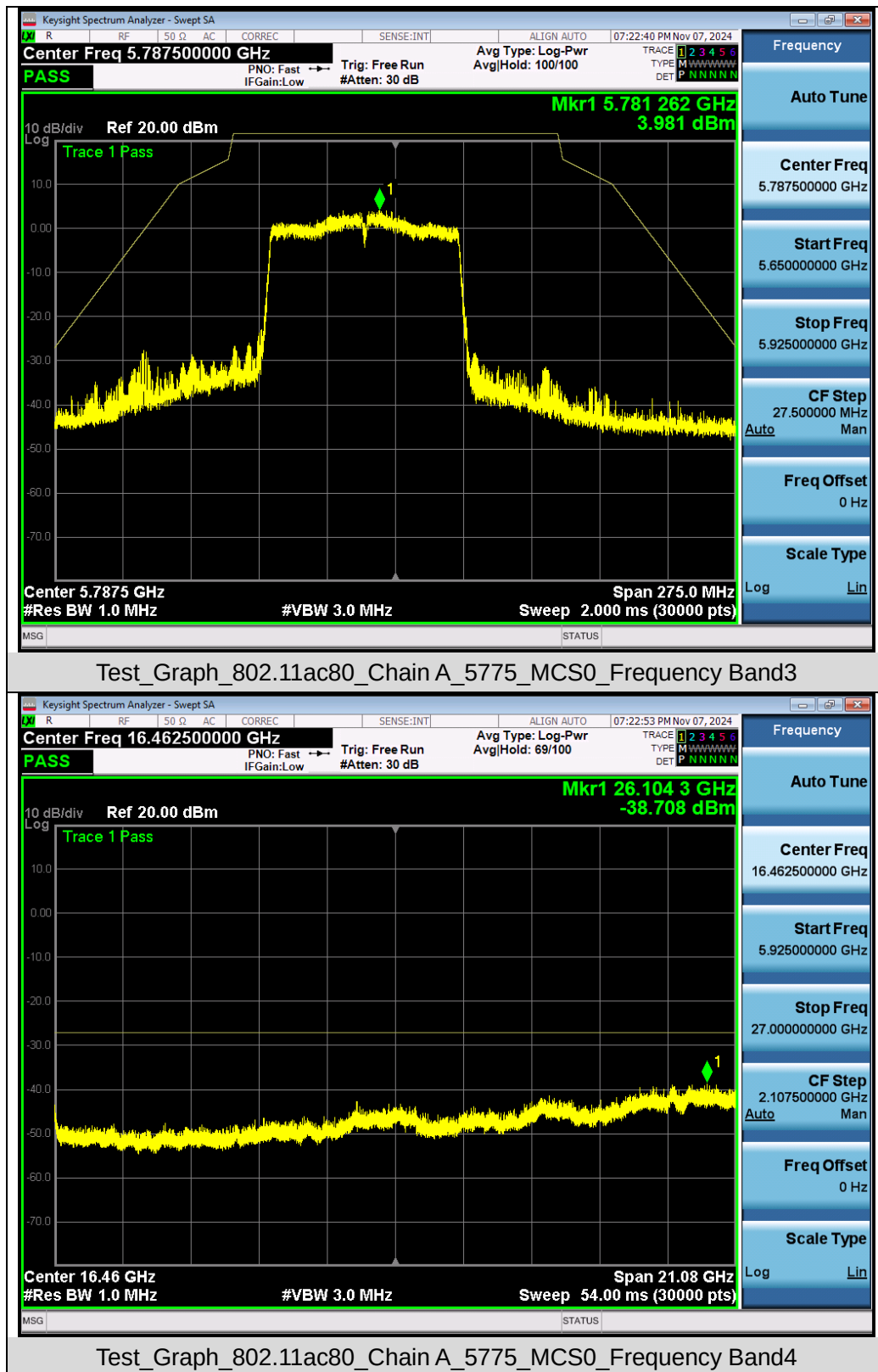


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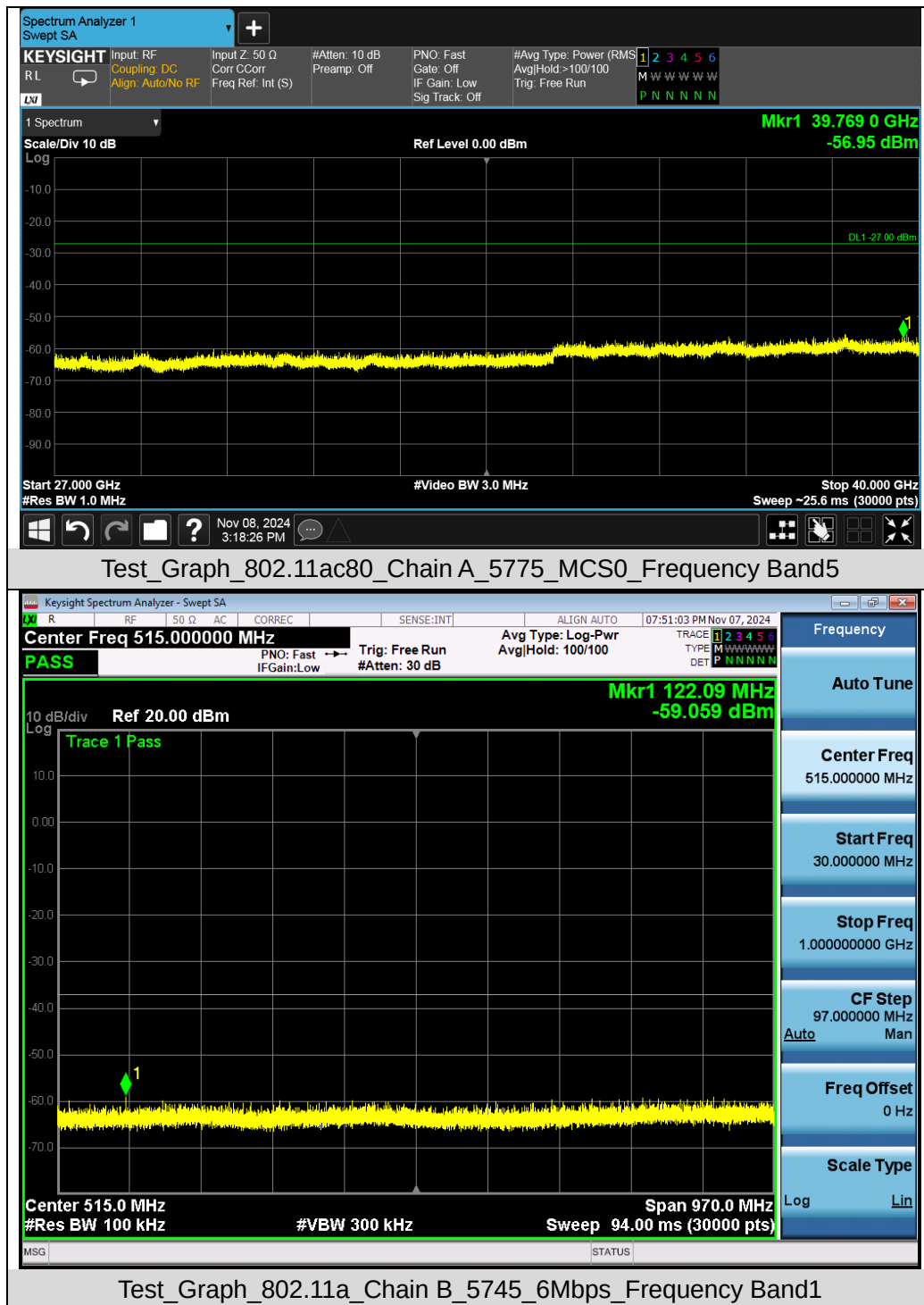
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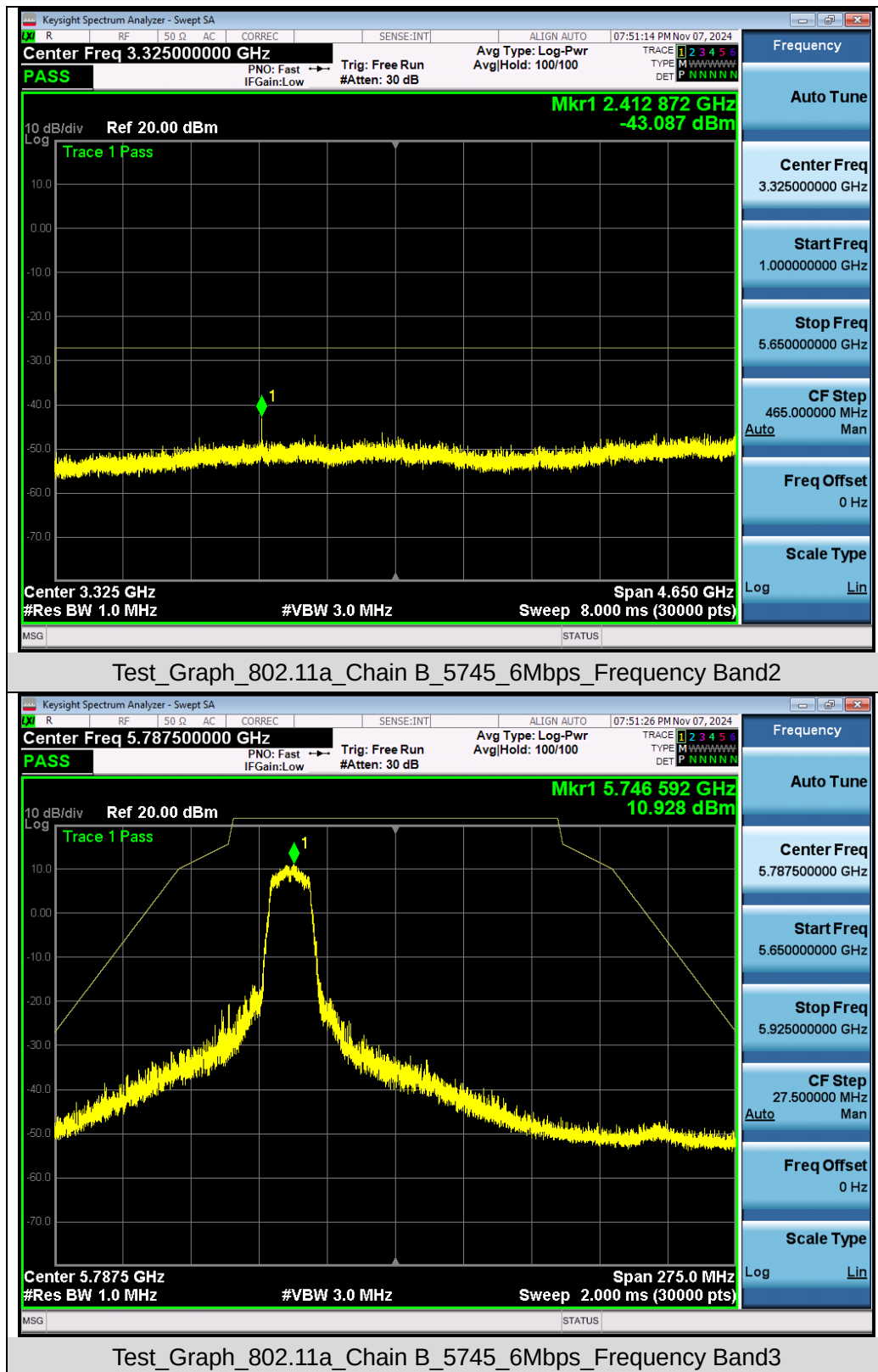
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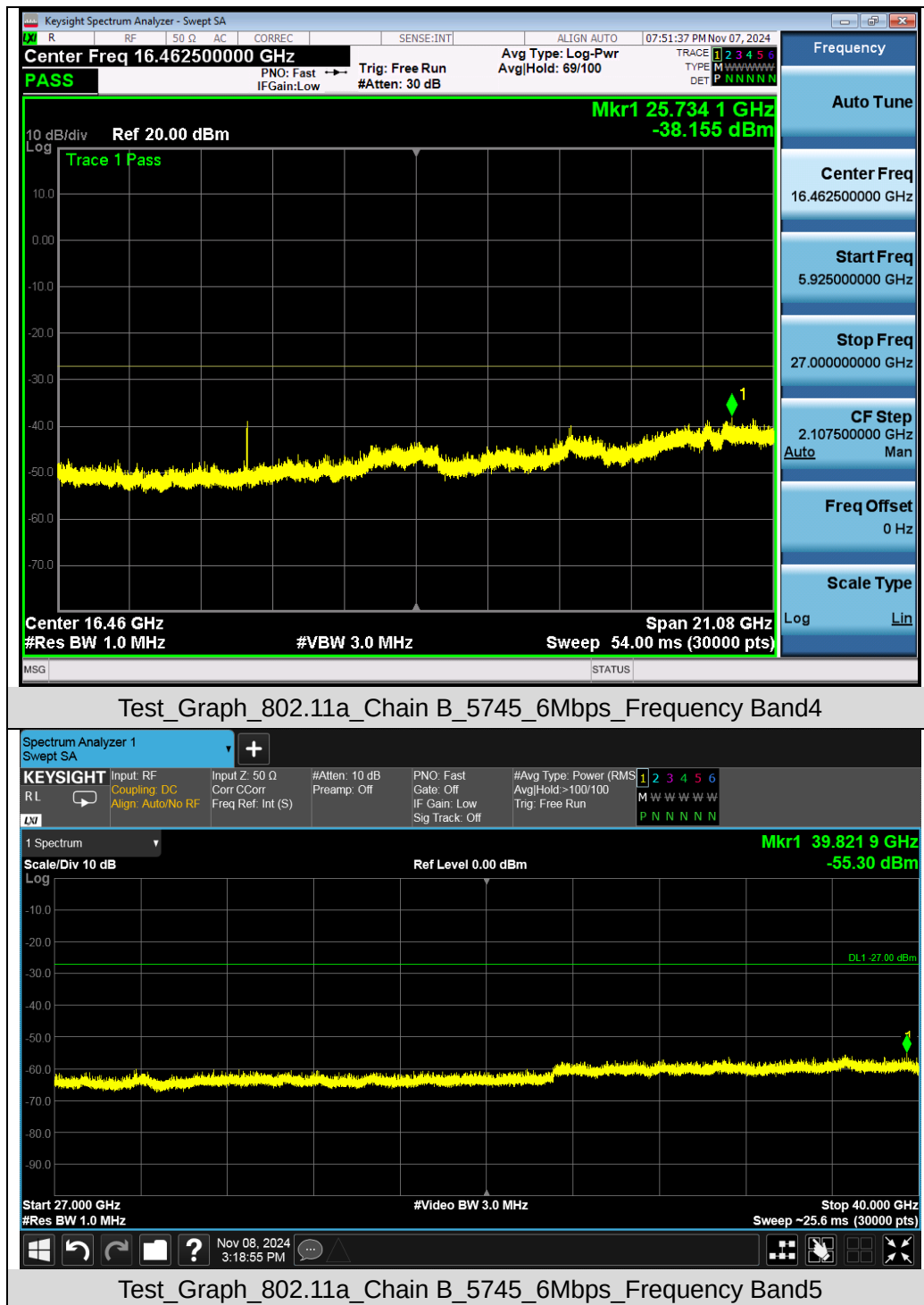


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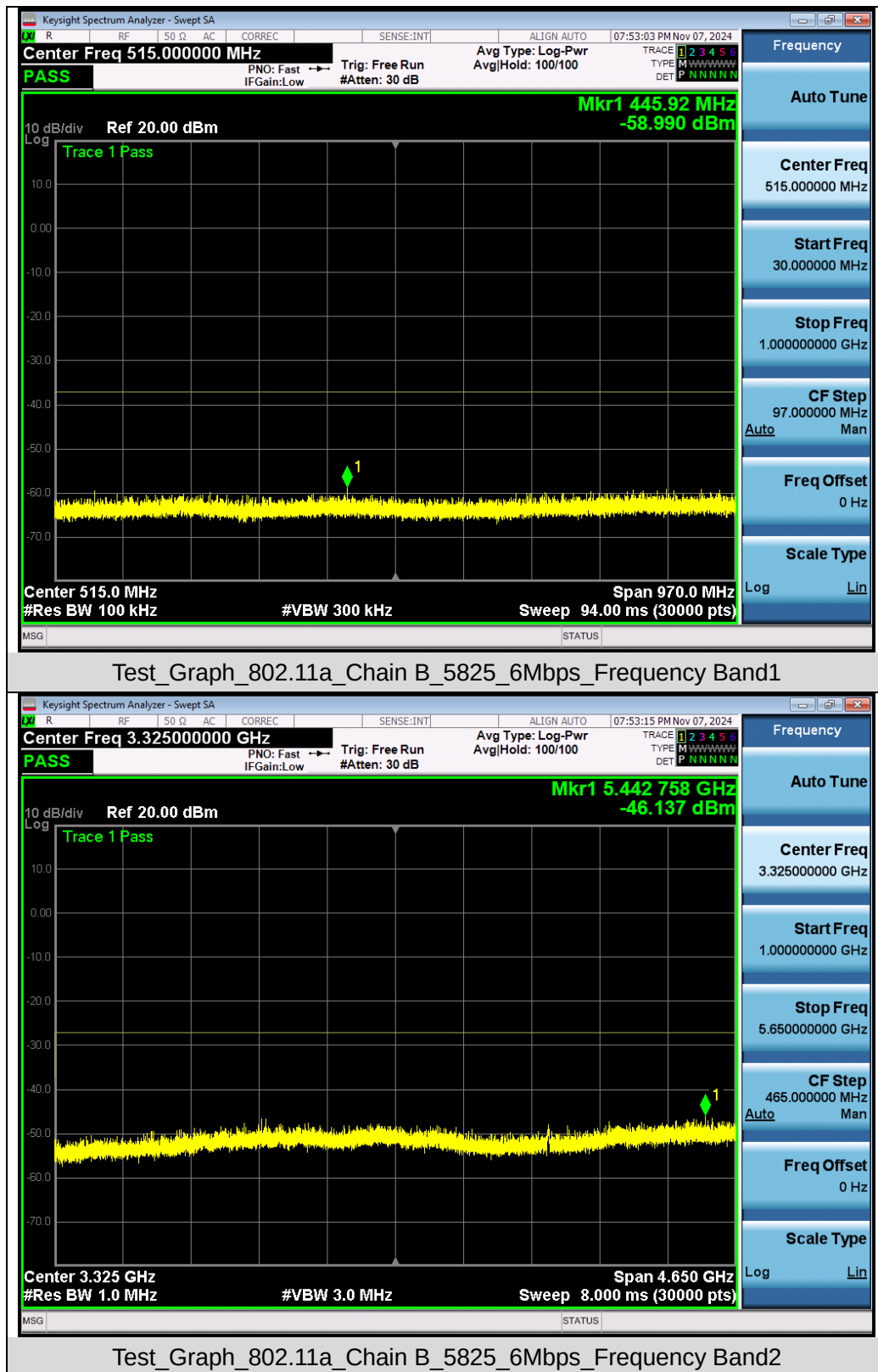
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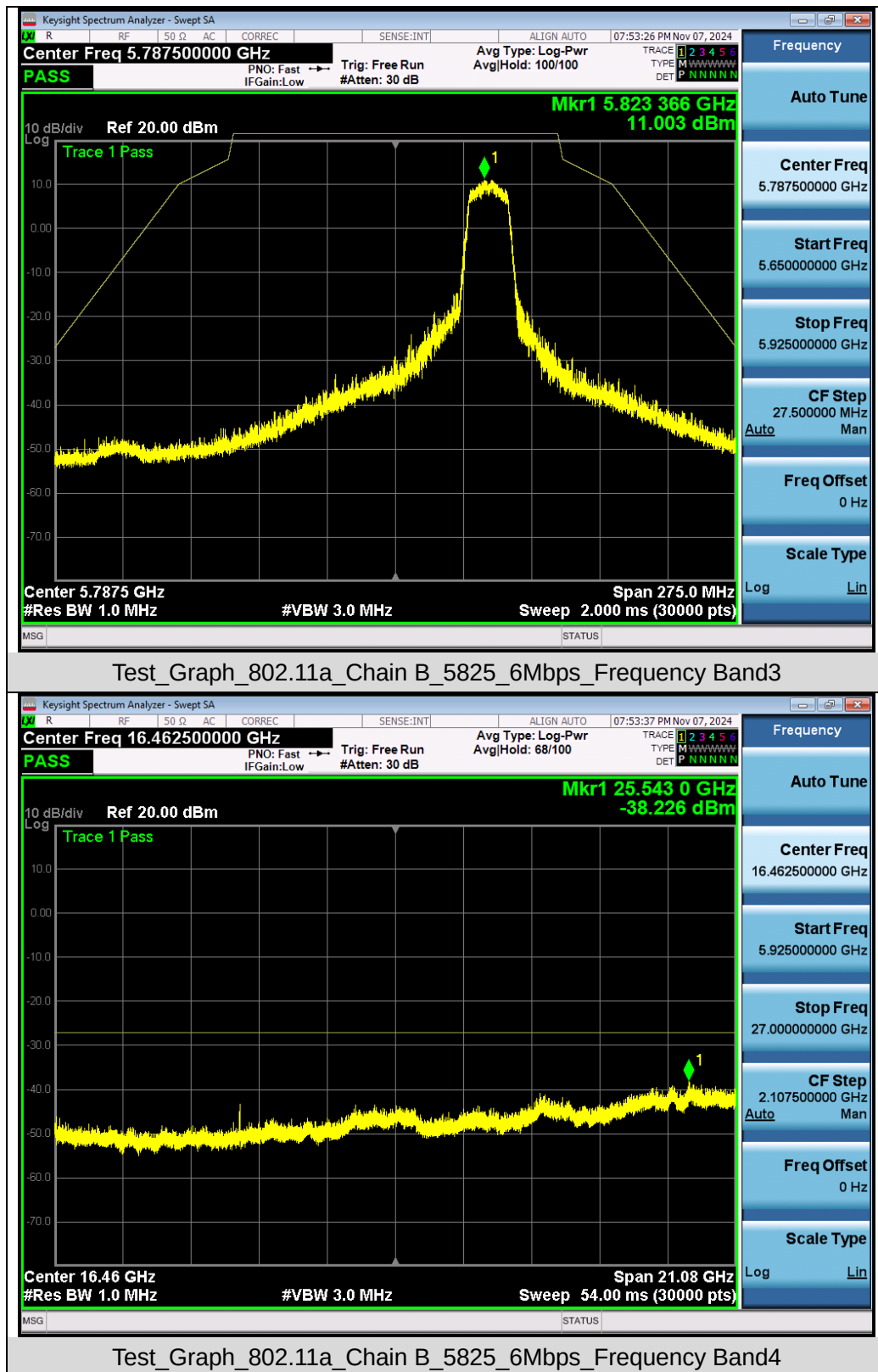
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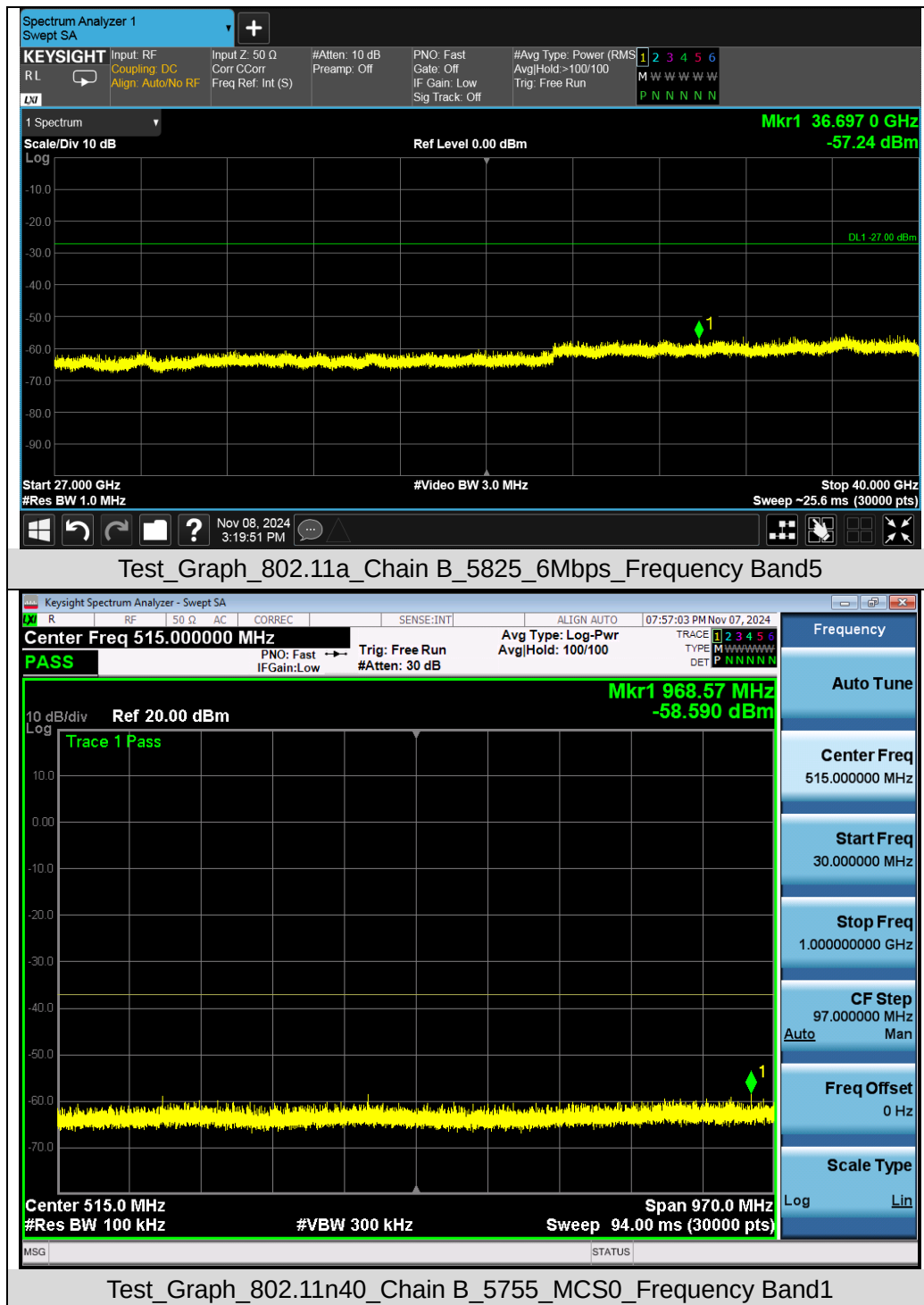


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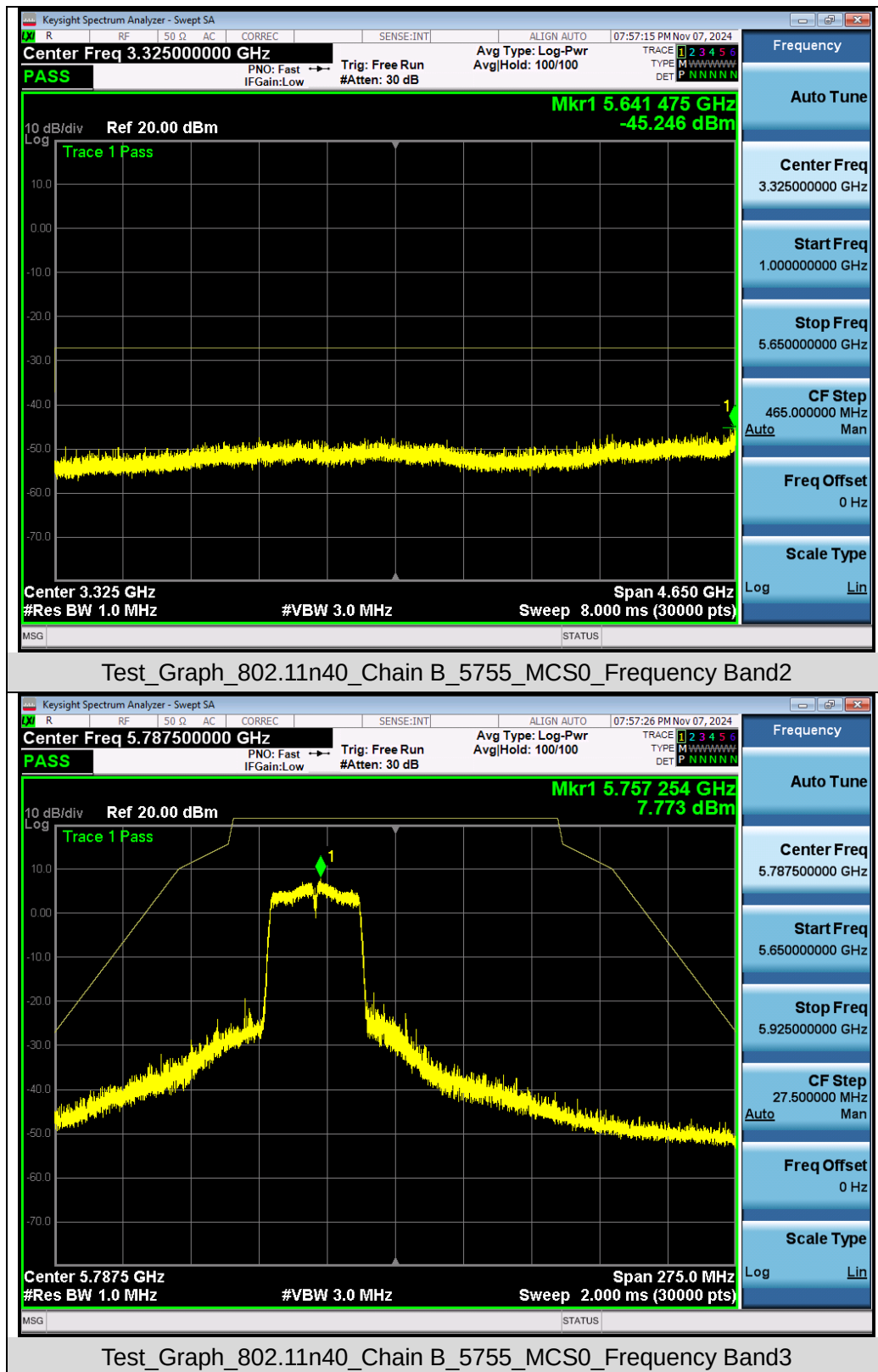
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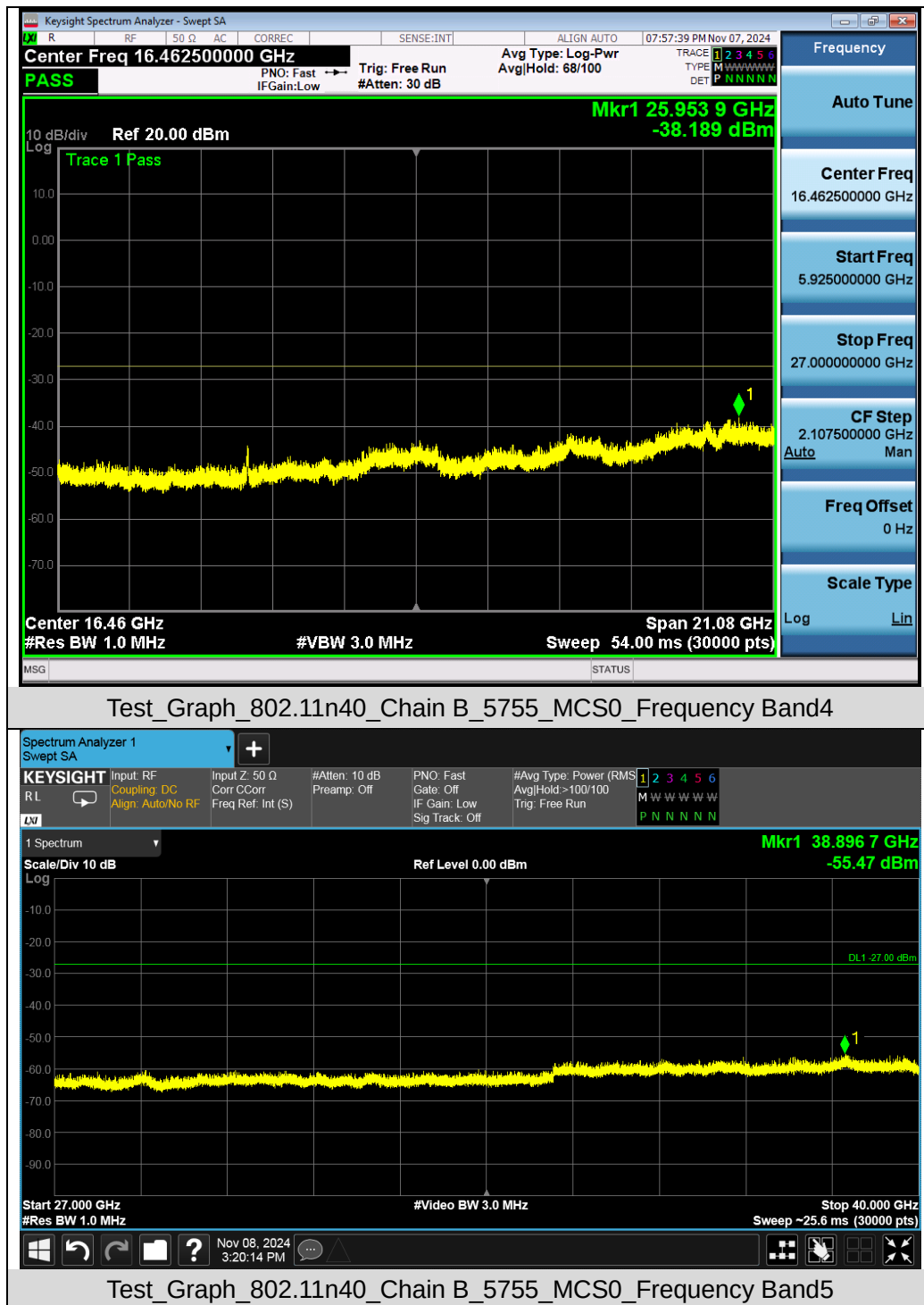
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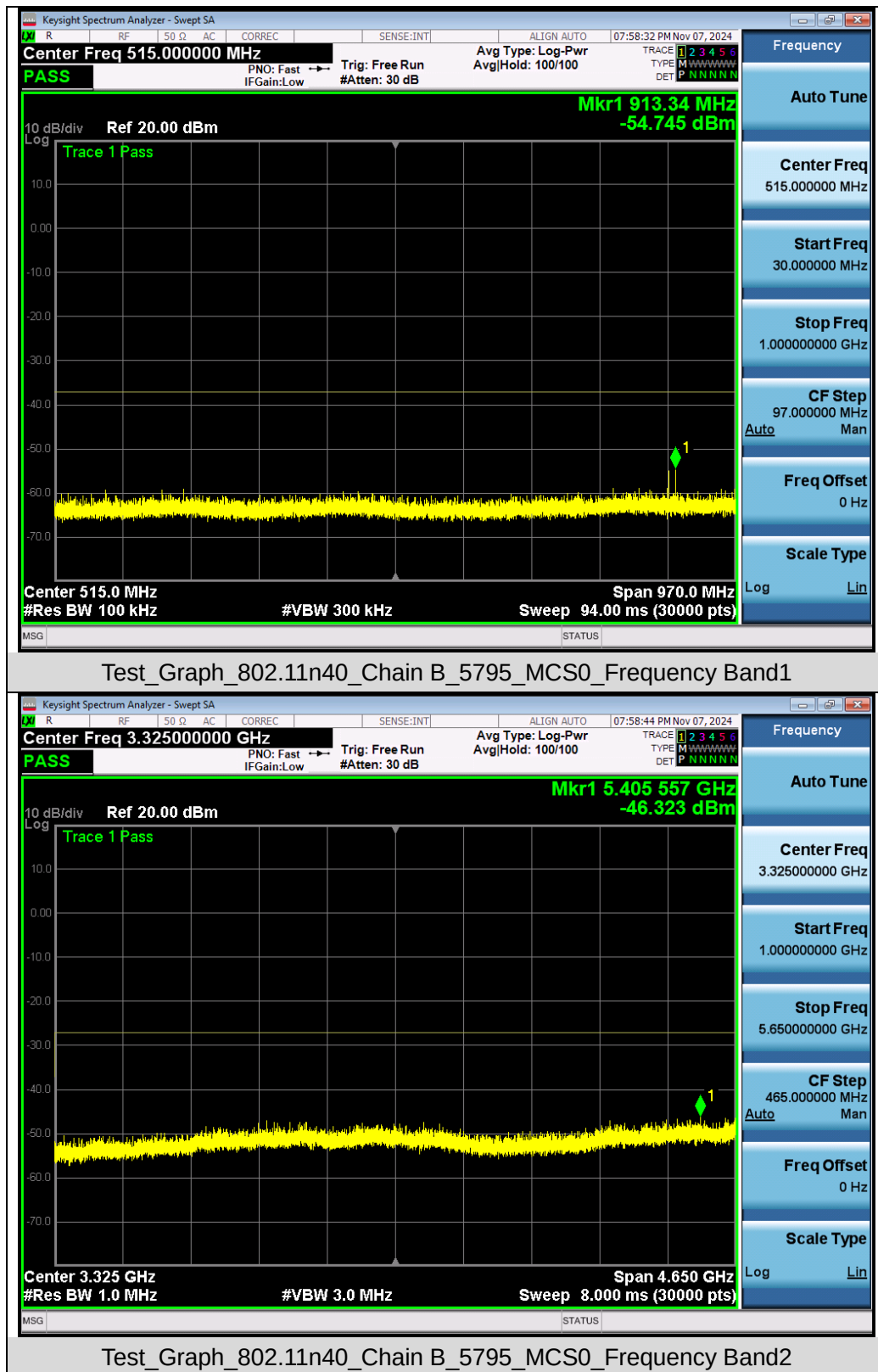


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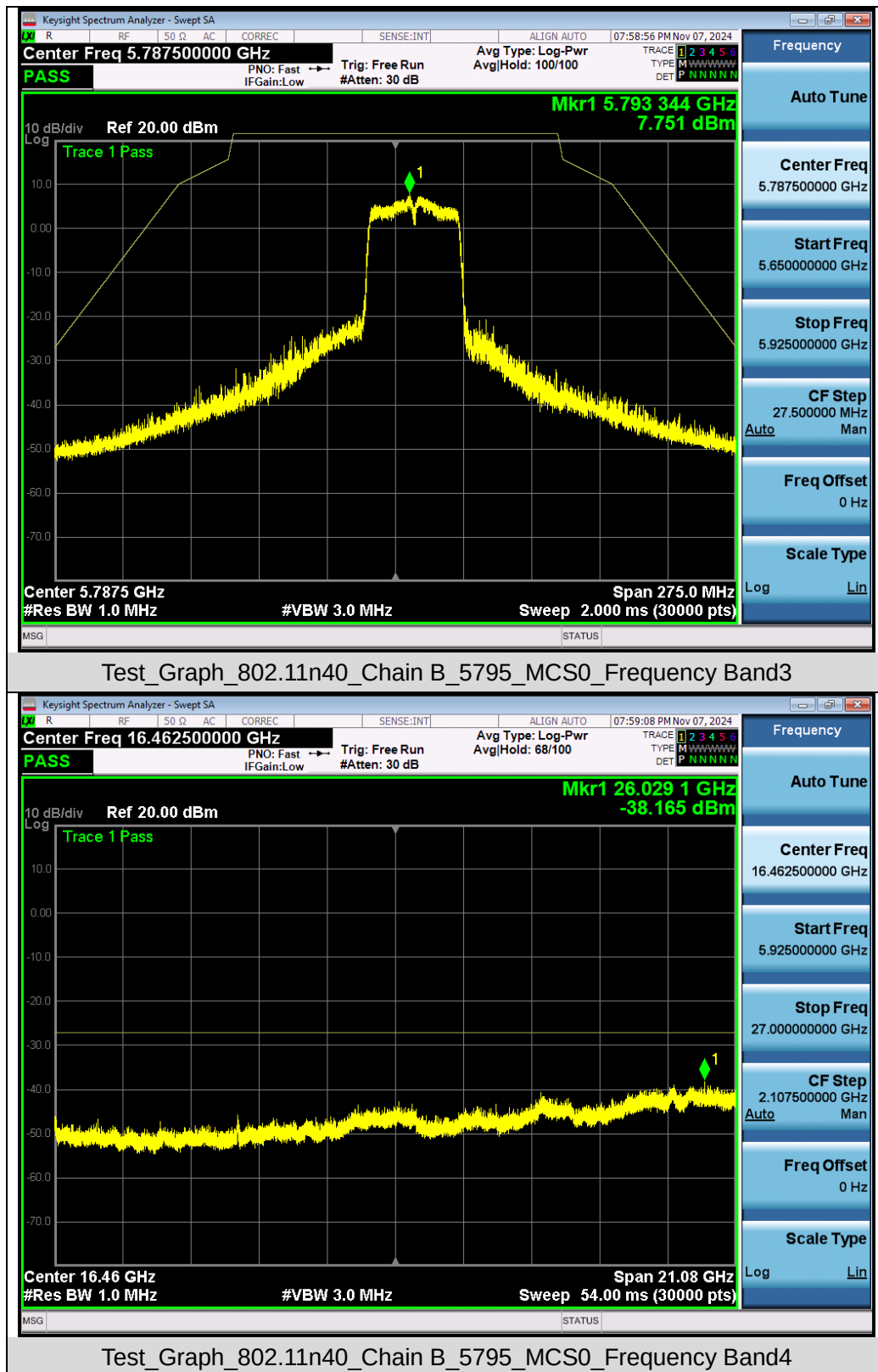


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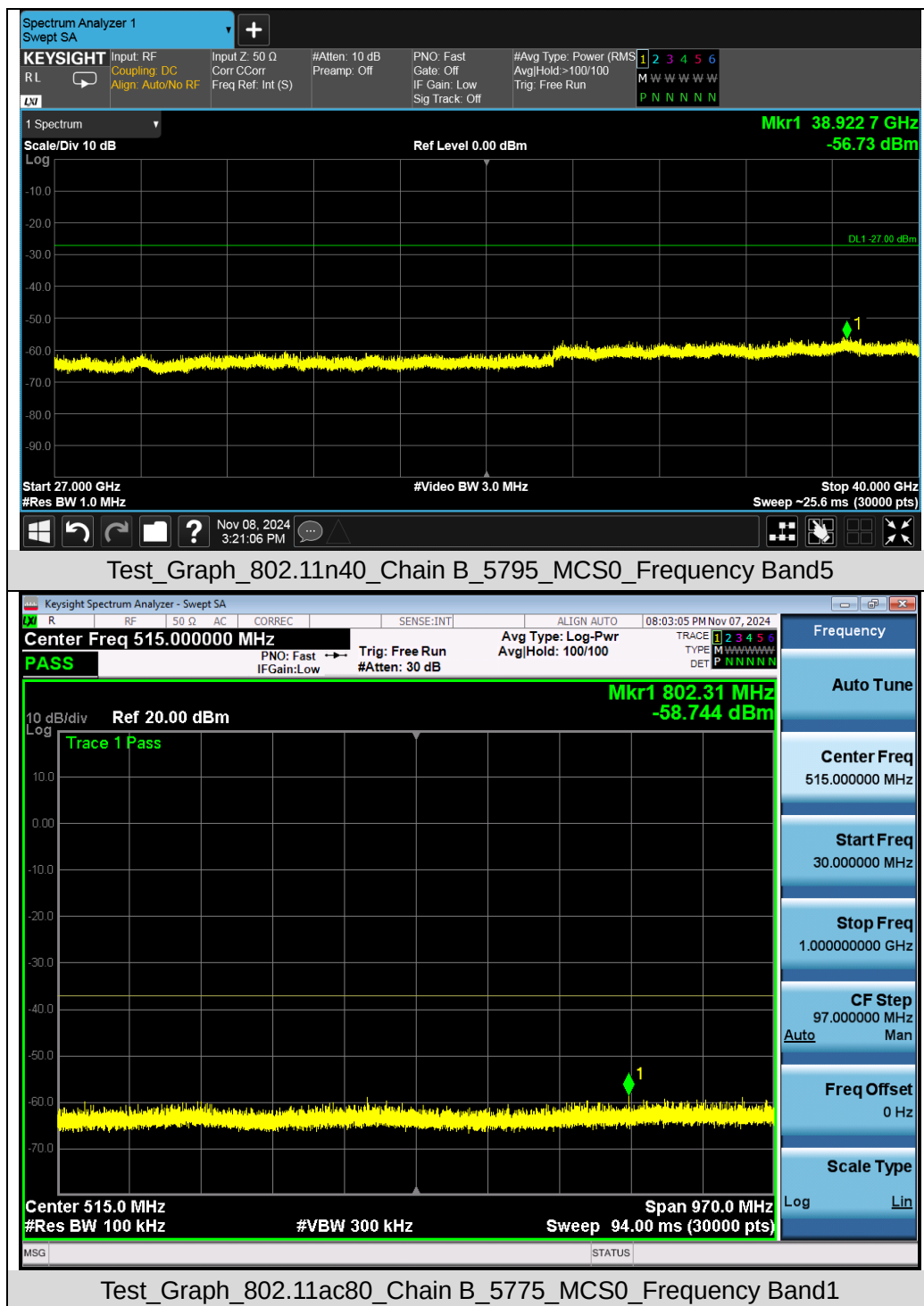


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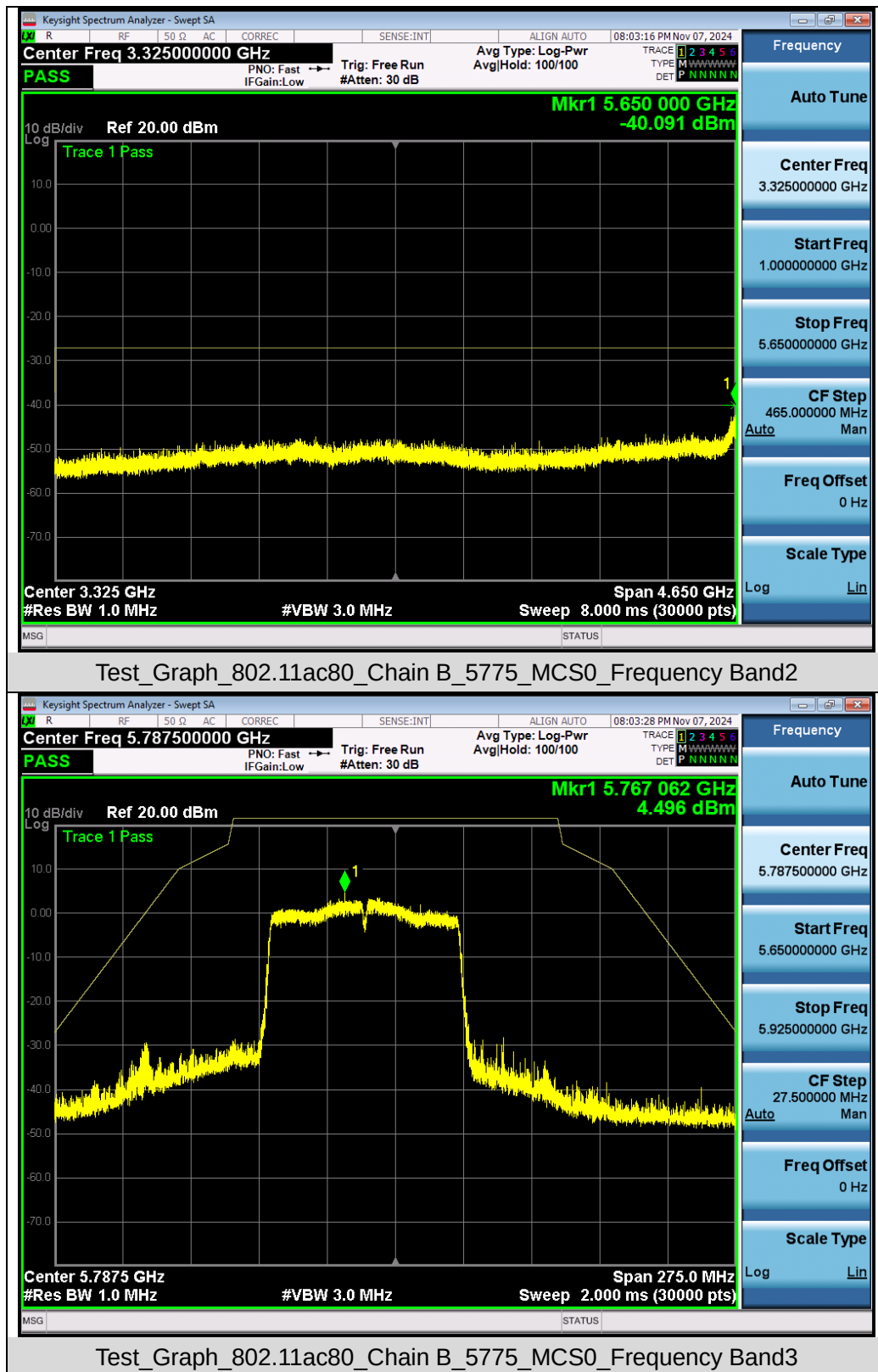


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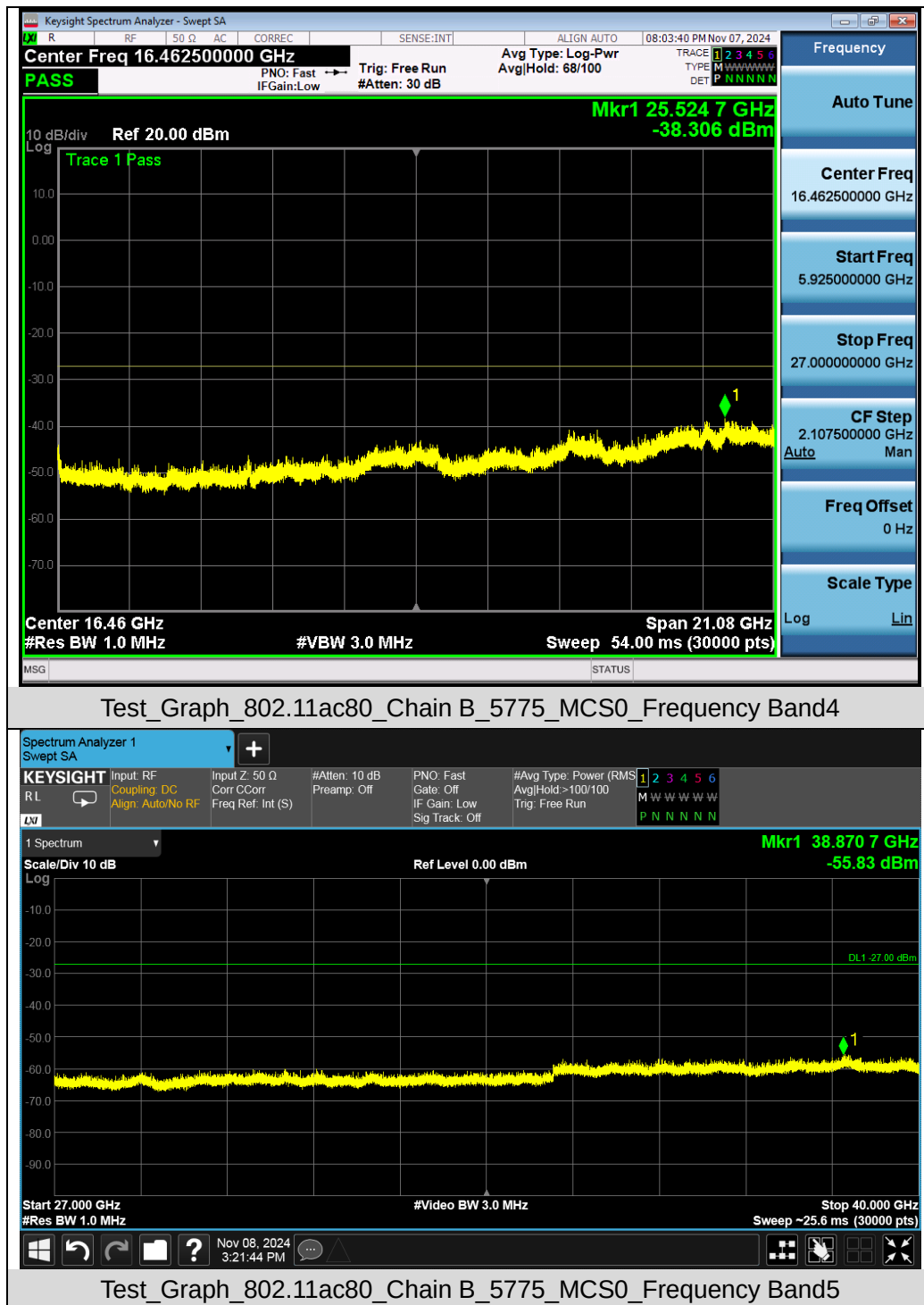
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## 11. Radiated Spurious Emission

### 11.1 Measurement Limit

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009 - 0.490   | 2400/F(kHz)                       | 300                           |
| 0.490 - 1.705   | 24000/F(kHz)                      | 30                            |
| 1.705 - 30.0    | 30                                | 30                            |
| 30 - 88         | 100                               | 3                             |
| 88 - 216        | 150                               | 3                             |
| 216 - 960       | 200                               | 3                             |
| Above 960       | 500                               | 3                             |

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

| Restricted bands            | Applicable to                                            | Limit                         |                                          |
|-----------------------------|----------------------------------------------------------|-------------------------------|------------------------------------------|
|                             | 789033 D02 General UNII Test Procedures New Rules v02r01 | Field strength at 3m (dBuV/m) |                                          |
|                             |                                                          | PK: 74                        | AV: 54                                   |
| Out of the restricted bands | Applicable to                                            | EIRP Limit (dBm/MHz)          | Equivalent field Strength at 3m (dBuV/m) |
|                             | FCC 15.407(b)(1)                                         | PK: -27                       | PK: 68.2                                 |
|                             | 15.407(b)(2)                                             |                               |                                          |
|                             | 15.407(b)(3)                                             |                               |                                          |
|                             | 15.407(b)(4)                                             | See Note 2                    |                                          |

Note 1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000}{3} \sqrt{30 P} \quad \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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## 11.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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