

## **FCC Appendix RF Test Data for BT**

**FCC ID** : 2ACGT-TLN002

**Company** : Guangzhou Shangke Information Technology Co., Ltd.

**EUT** : Mini PC

**Model Number** : TLN001

**Report No.** : CTA26073001602

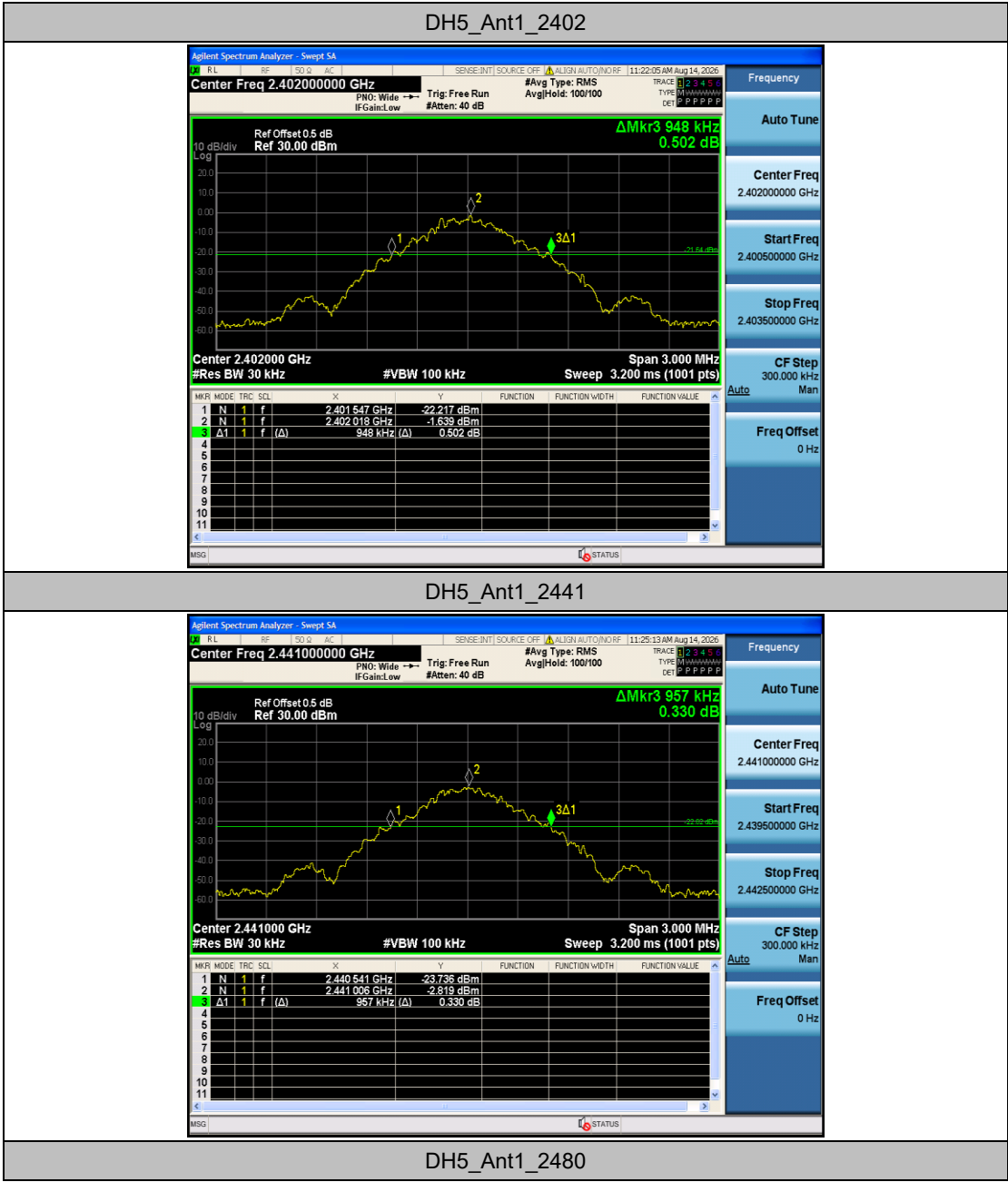
**Reviewed By** : Eric Wang

## Appendix A: 20dB Emission Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | 20dB<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|-----------|------------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402      | 0.948            | 2401.547 | 2402.495 | ---        | ---     |
|          |         | 2441      | 0.957            | 2440.541 | 2441.498 | ---        | ---     |
|          |         | 2480      | 0.960            | 2479.541 | 2480.501 | ---        | ---     |
| 2DH5     | Ant1    | 2402      | 1.320            | 2401.346 | 2402.666 | ---        | ---     |
|          |         | 2441      | 1.326            | 2440.343 | 2441.669 | ---        | ---     |
|          |         | 2480      | 1.287            | 2479.376 | 2480.663 | ---        | ---     |
| 3DH5     | Ant1    | 2402      | 1.284            | 2401.358 | 2402.642 | ---        | ---     |
|          |         | 2441      | 1.308            | 2440.355 | 2441.663 | ---        | ---     |
|          |         | 2480      | 1.299            | 2479.361 | 2480.660 | ---        | ---     |

Test Graphs





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



# 2DH5\_Ant1\_2480



# 3DH5\_Ant1\_2402



# 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

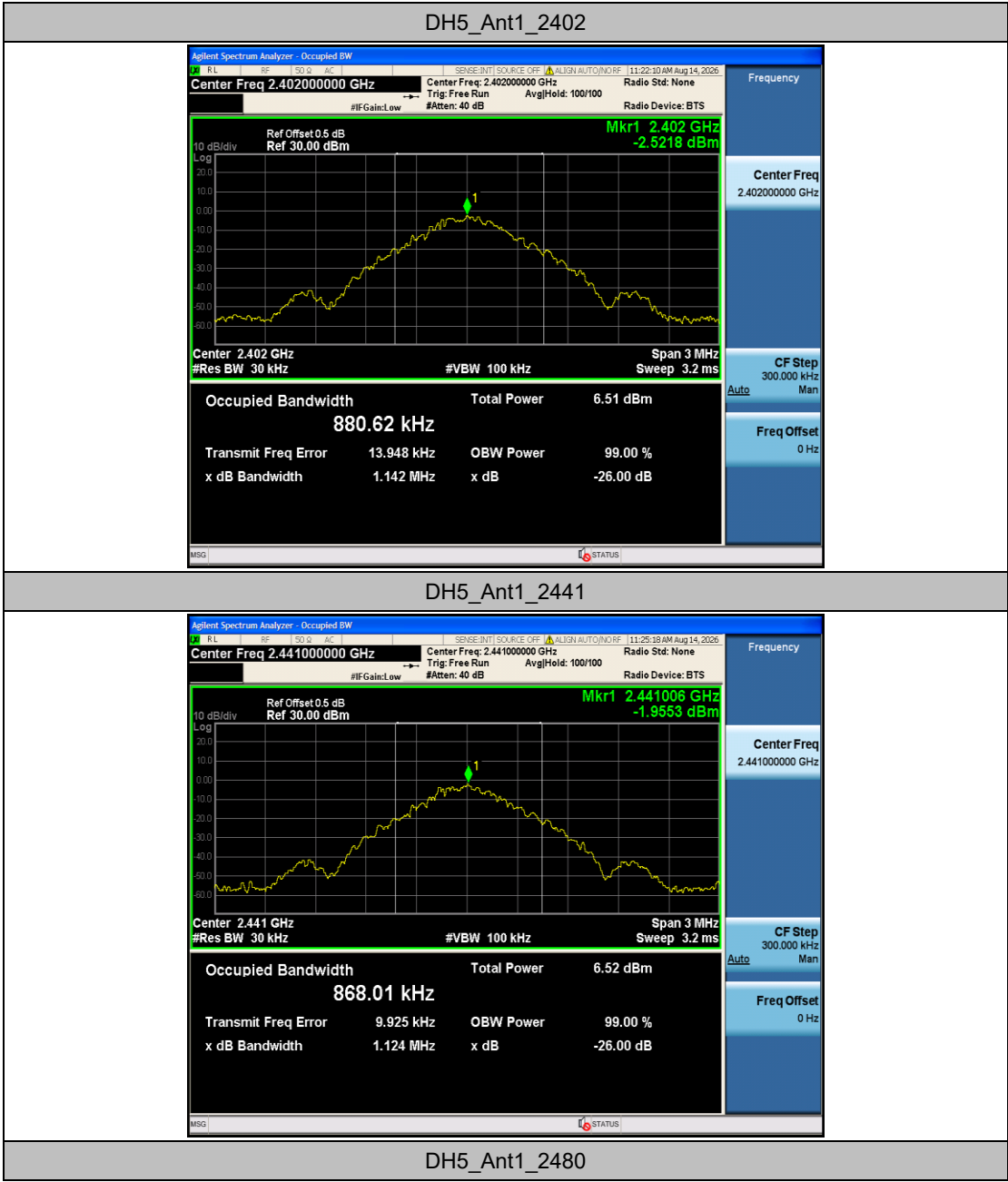


## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402      | 0.88062   | 2401.5736 | 2402.4543 | ---        | ---     |
|          |         | 2441      | 0.86801   | 2440.5759 | 2441.4439 | ---        | ---     |
|          |         | 2480      | 0.86408   | 2479.5762 | 2480.4403 | ---        | ---     |
| 2DH5     | Ant1    | 2402      | 1.1993    | 2401.4095 | 2402.6088 | ---        | ---     |
|          |         | 2441      | 1.1961    | 2440.4126 | 2441.6087 | ---        | ---     |
|          |         | 2480      | 1.1903    | 2479.4137 | 2480.6040 | ---        | ---     |
| 3DH5     | Ant1    | 2402      | 1.1859    | 2401.4166 | 2402.6025 | ---        | ---     |
|          |         | 2441      | 1.1793    | 2440.4208 | 2441.6001 | ---        | ---     |
|          |         | 2480      | 1.1883    | 2479.4159 | 2480.6042 | ---        | ---     |

Test Graphs





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



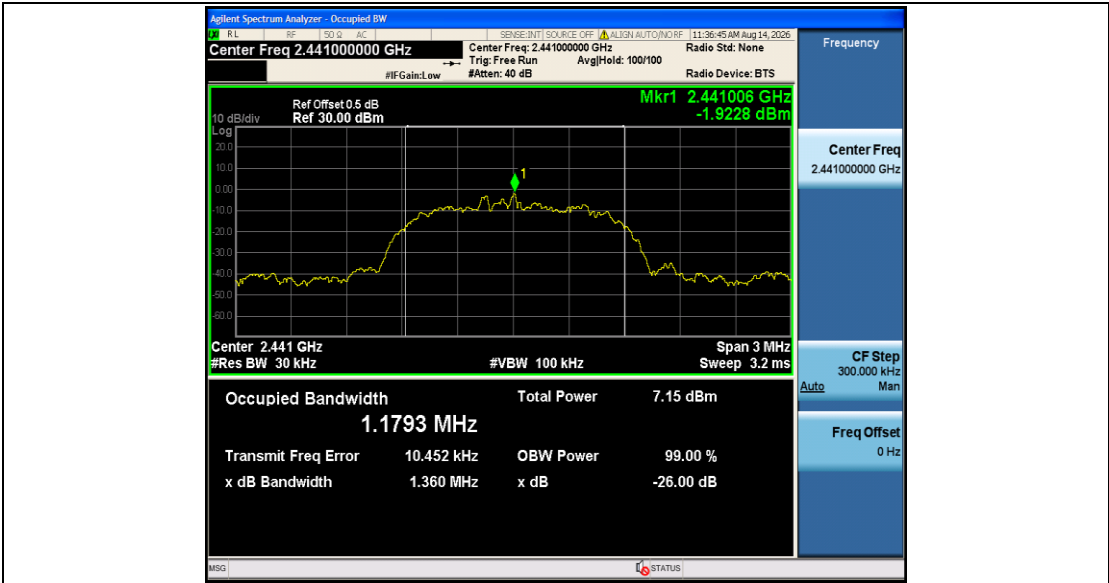
### 2DH5\_Ant1\_2480



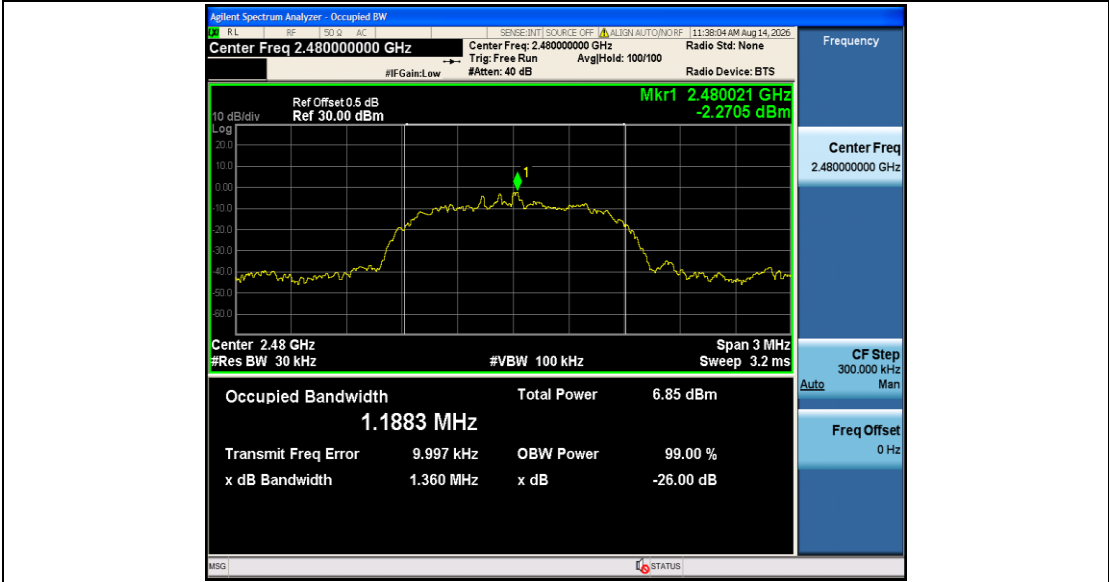
### 3DH5\_Ant1\_2402



### 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## Appendix C: Maximum conducted output power

### Test Result Peak

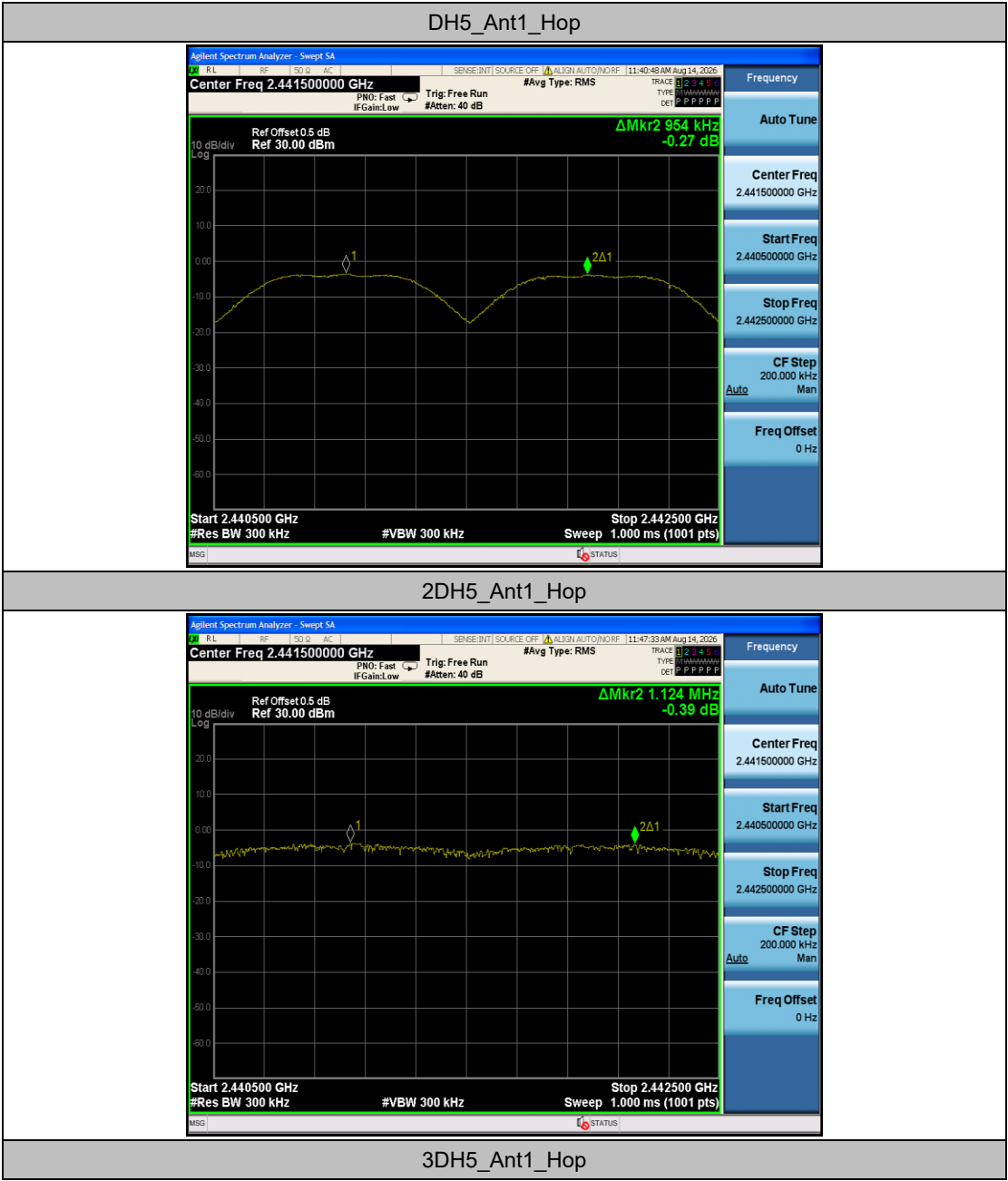
| Test Mode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402      | 0.19                      | ≤20.97               | PASS    |
|           |         | 2441      | 0.05                      | ≤20.97               | PASS    |
|           |         | 2480      | -0.23                     | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2402      | 2.86                      | ≤20.97               | PASS    |
|           |         | 2441      | 2.68                      | ≤20.97               | PASS    |
|           |         | 2480      | 2.39                      | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2402      | 3.34                      | ≤20.97               | PASS    |
|           |         | 2441      | 3.10                      | ≤20.97               | PASS    |
|           |         | 2480      | 2.81                      | ≤20.97               | PASS    |

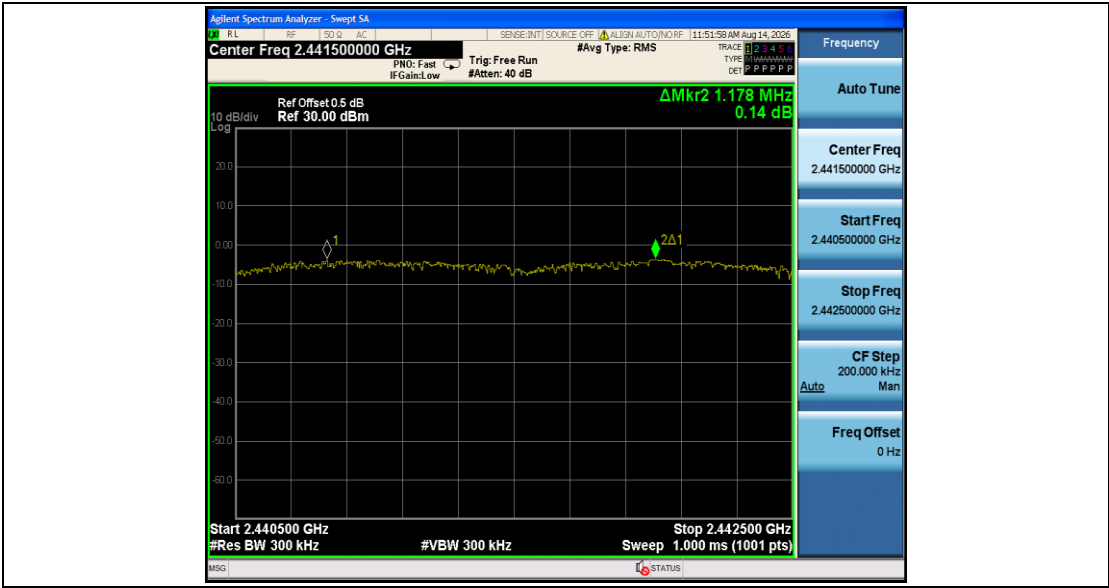
## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|-----------|-------------|--------------|---------|
| DH5      | Ant1    | Hop       | 0.954       | $\geq 0.640$ | PASS    |
| 2DH5     | Ant1    | Hop       | 1.124       | $\geq 0.884$ | PASS    |
| 3DH5     | Ant1    | Hop       | 1.178       | $\geq 0.872$ | PASS    |

Test Graphs



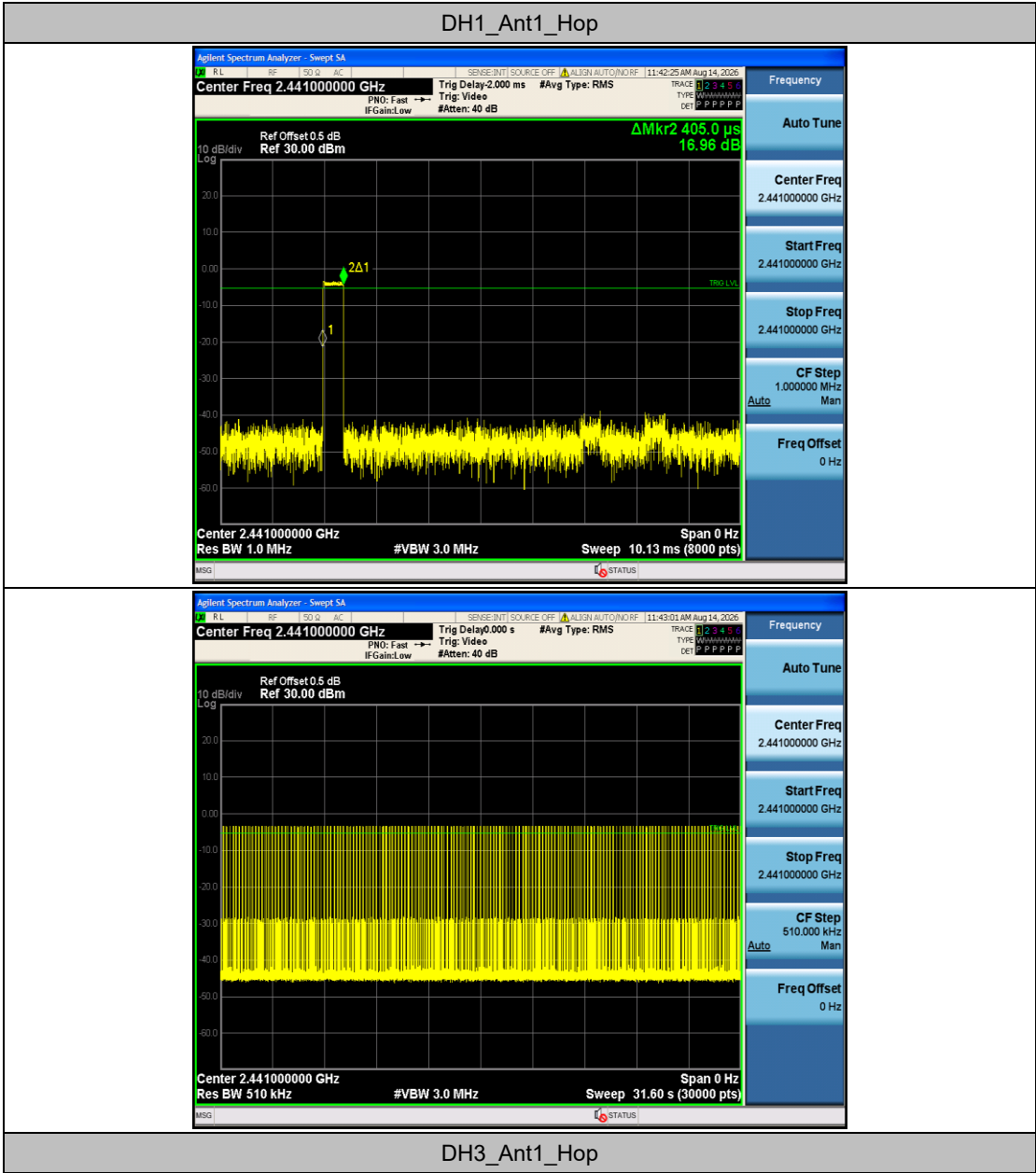


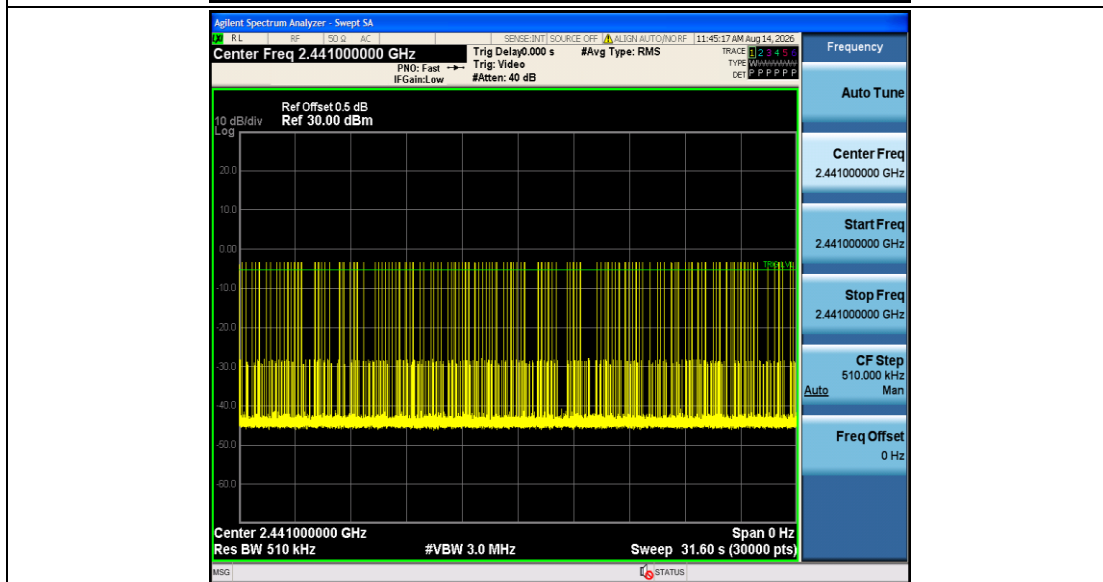
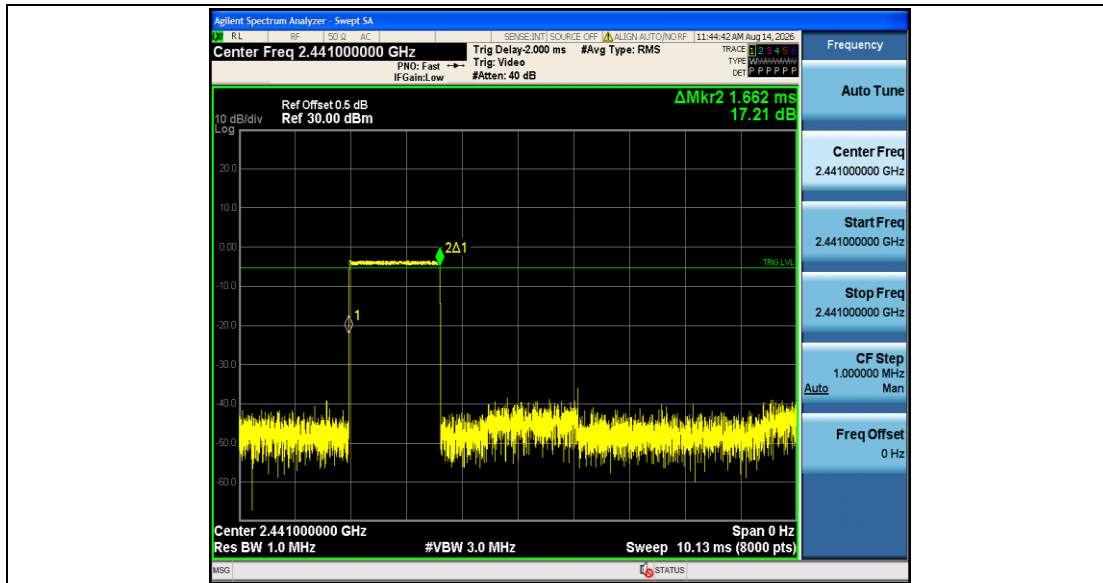
## Appendix E: Time of occupancy

### Test Result

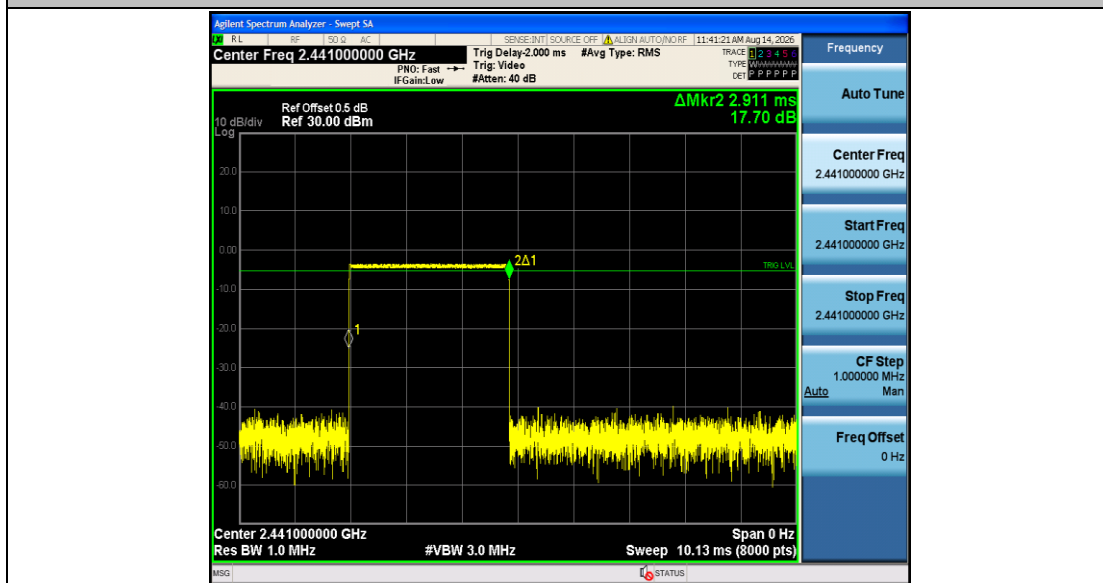
| TestMode | Antenna | Freq(MHz) | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|-----------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop       | 0.405              | 319                | 0.129     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop       | 1.662              | 159                | 0.264     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop       | 2.911              | 114                | 0.332     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop       | 0.415              | 319                | 0.132     | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop       | 1.668              | 160                | 0.267     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop       | 2.916              | 95                 | 0.277     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop       | 0.415              | 316                | 0.131     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop       | 1.666              | 162                | 0.27      | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop       | 2.917              | 109                | 0.318     | ≤0.4     | PASS    |

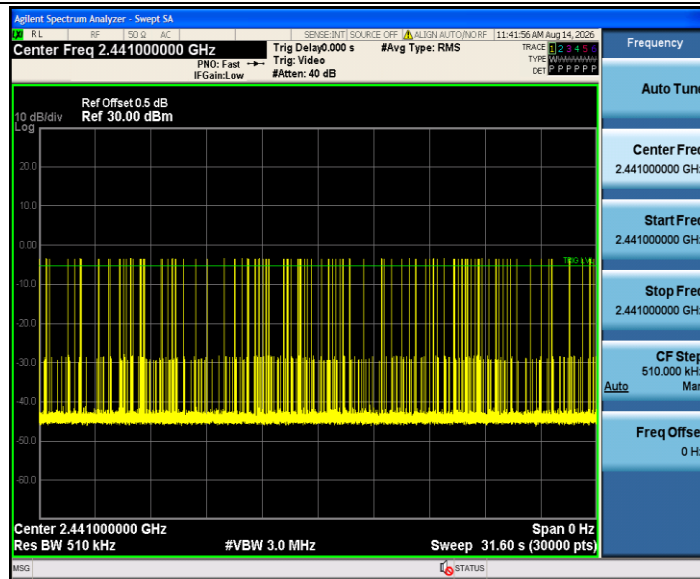
Test Graphs



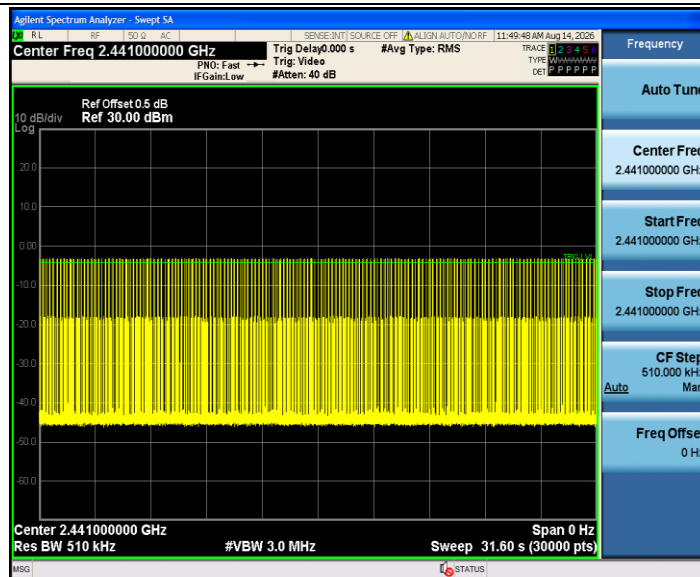
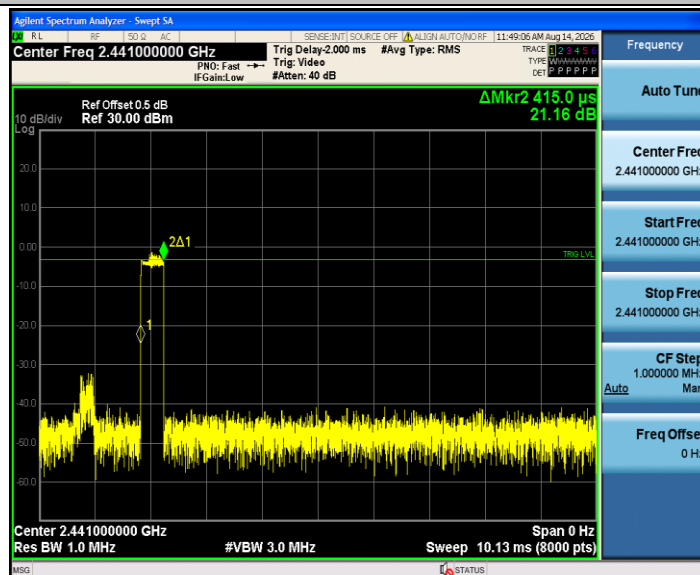


DH5\_Ant1\_Hop

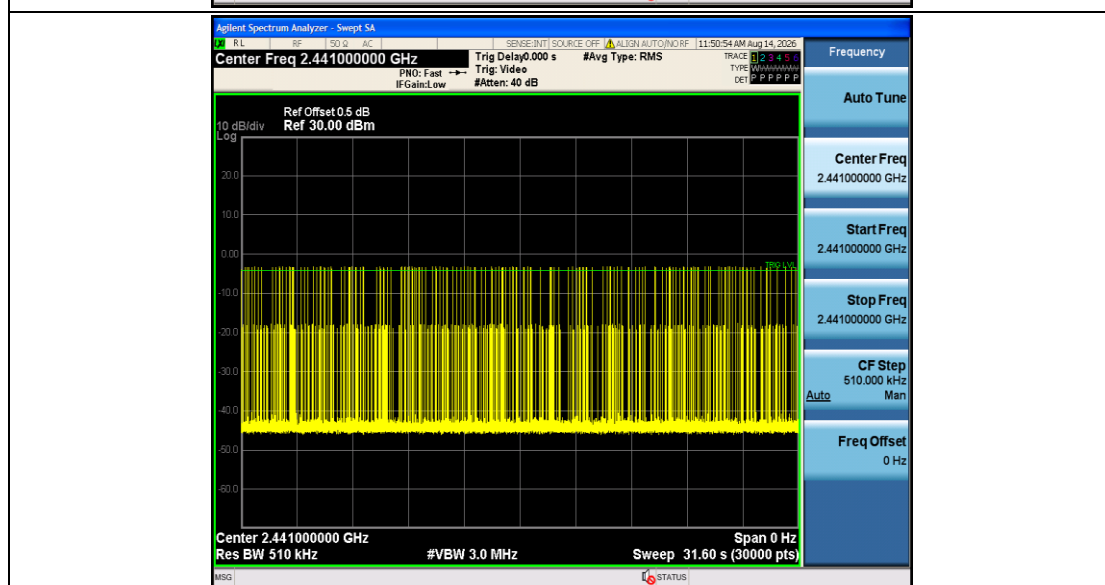
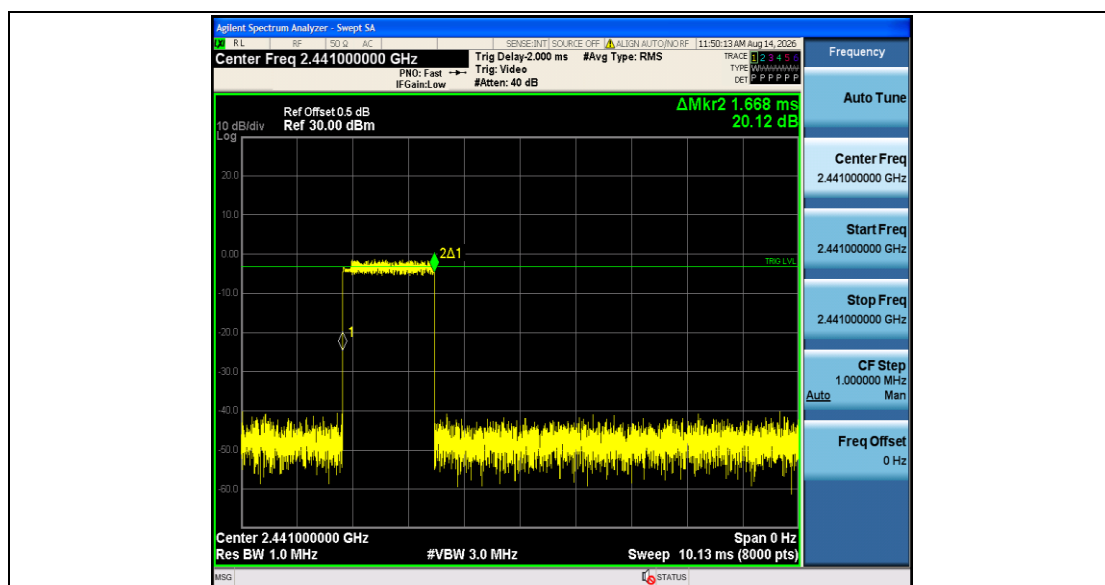




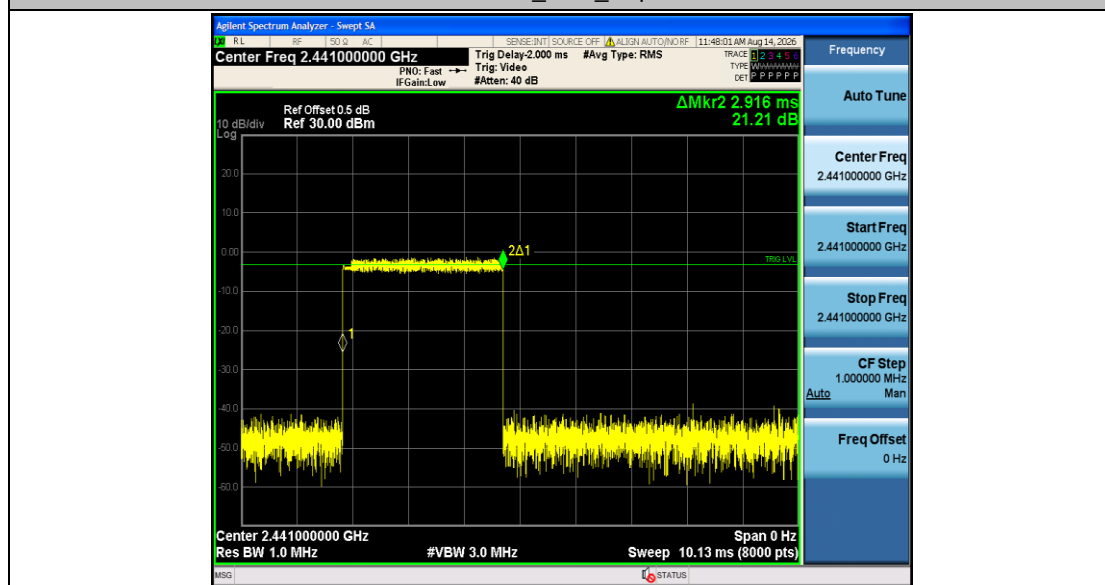
2DH1\_Ant1\_Hop

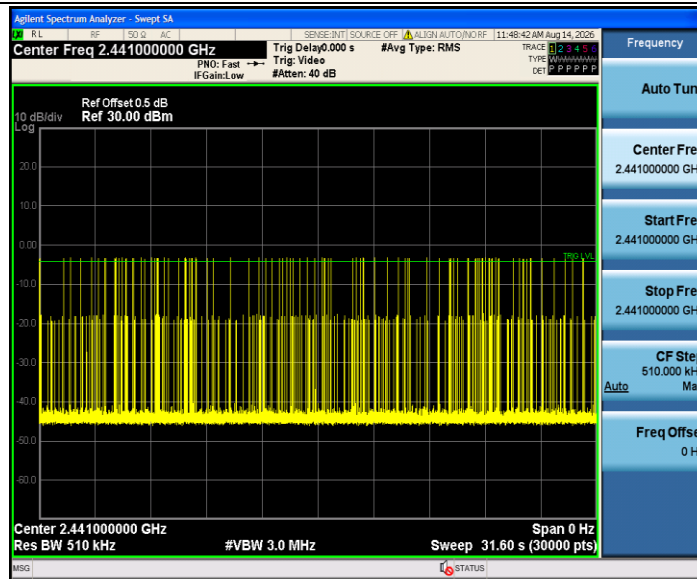


2DH3\_Ant1\_Hop

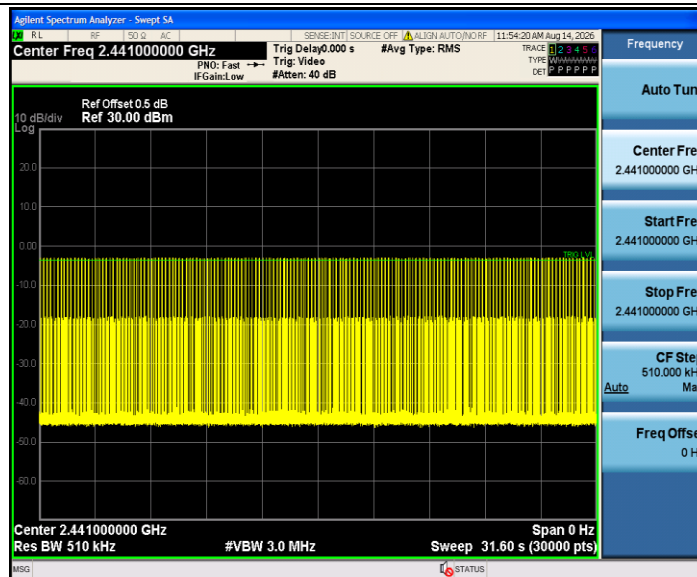
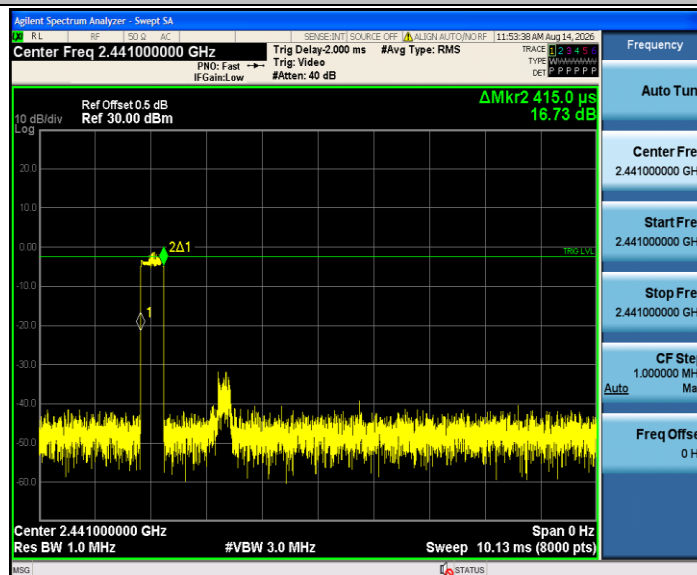


2DH5\_Ant1\_Hop

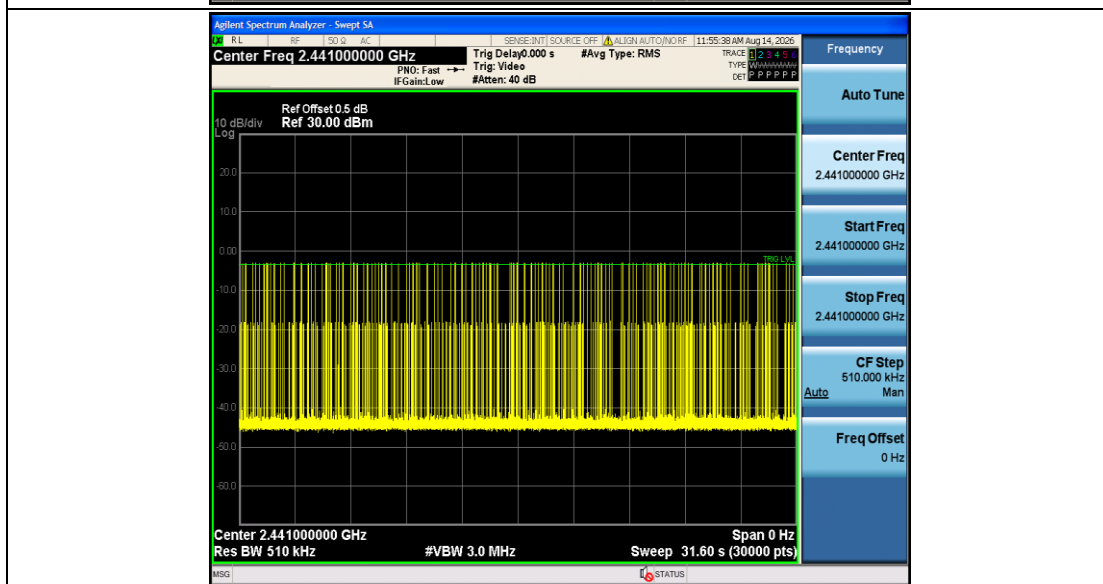
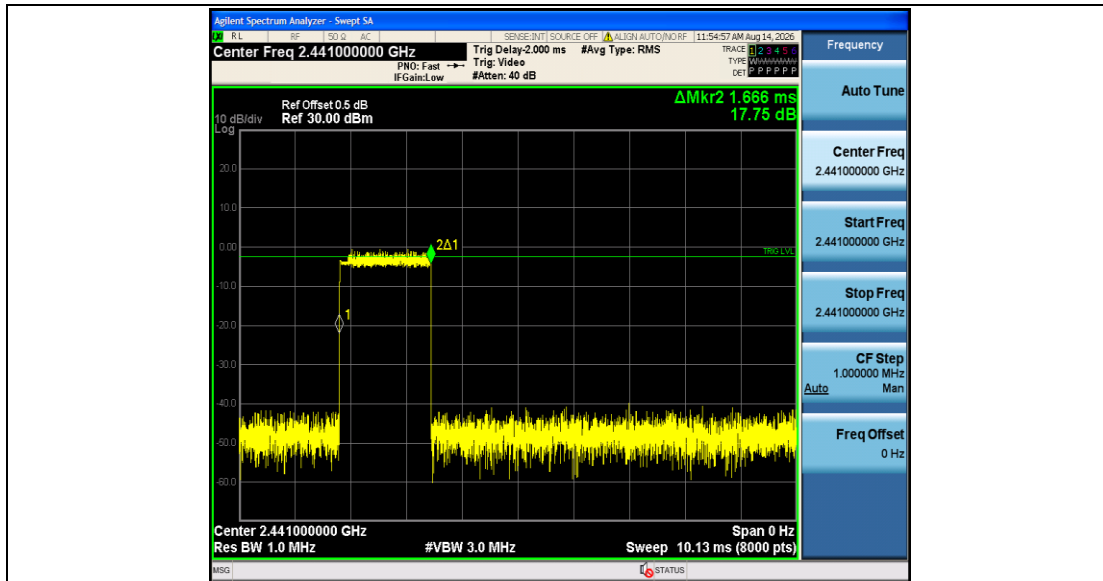




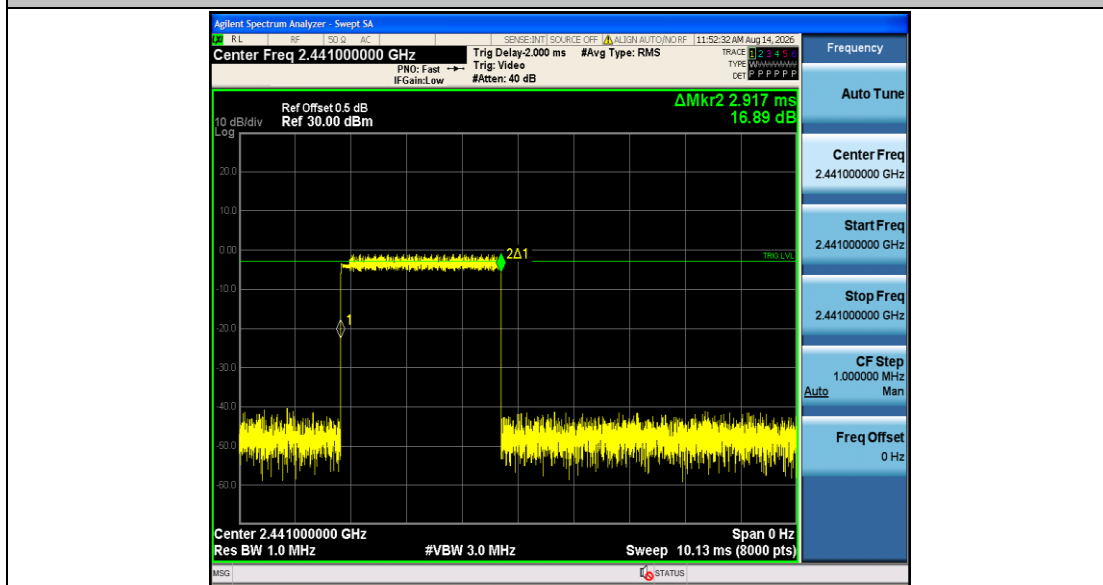
3DH1\_Ant1\_Hop

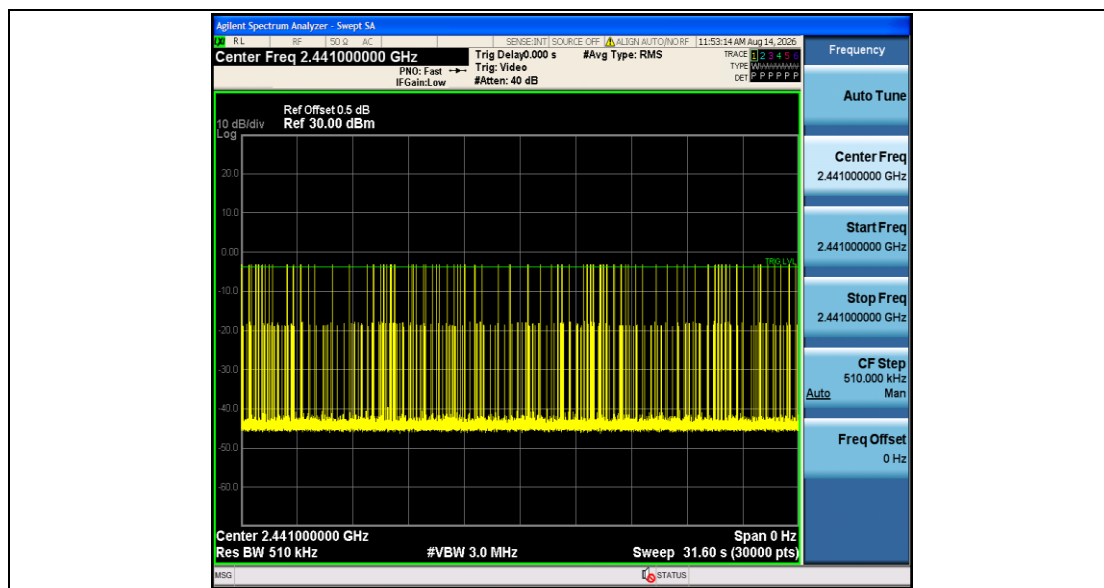


3DH3\_Ant1\_Hop



3DH5\_Ant1\_Hop



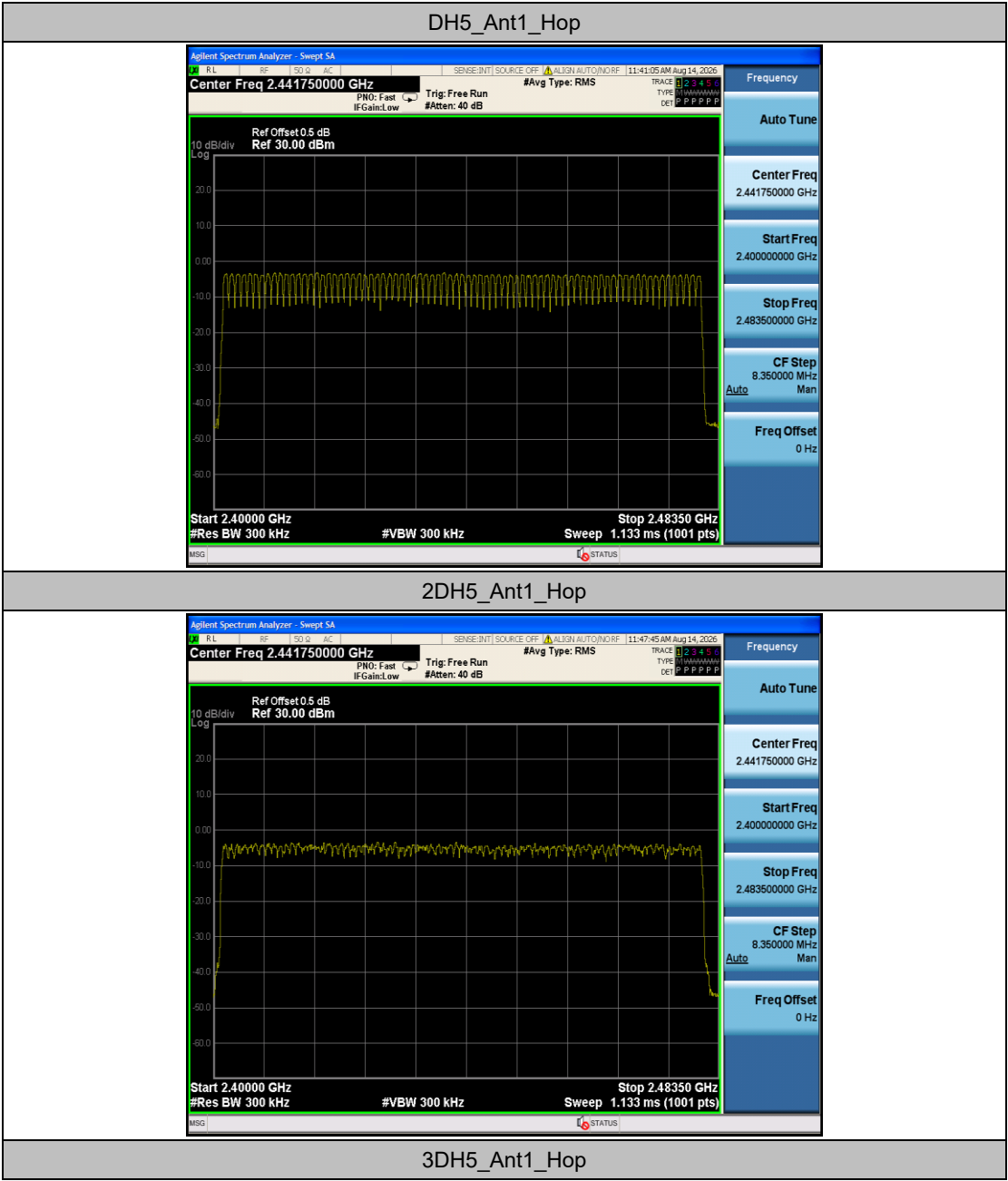


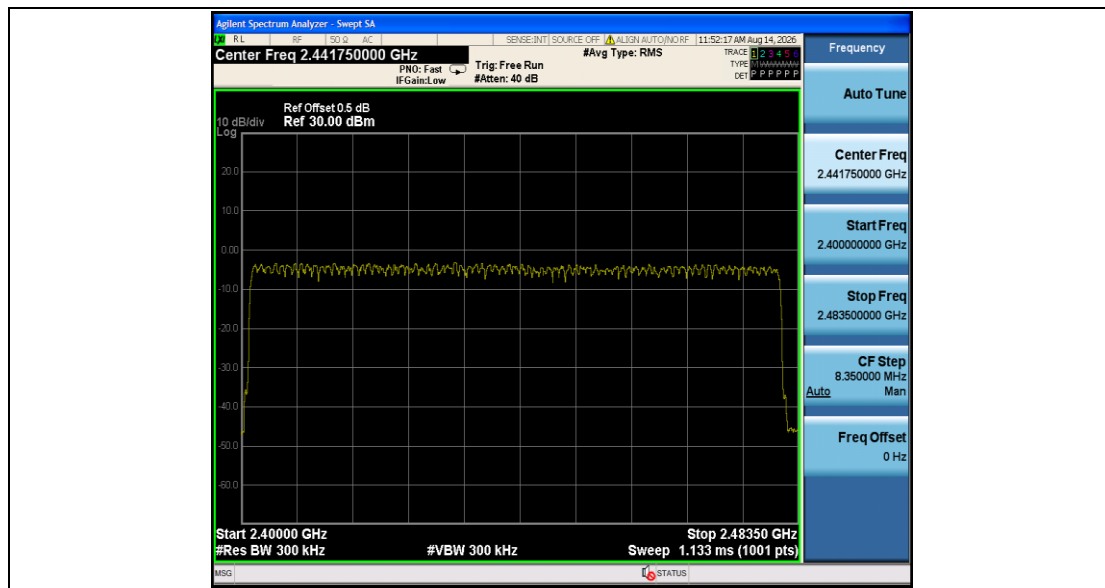
## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[Num] | Limit[Num] | Verdict |
|----------|---------|-----------|-------------|------------|---------|
| DH5      | Ant1    | Hop       | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop       | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop       | 79          | ≥15        | PASS    |

Test Graphs



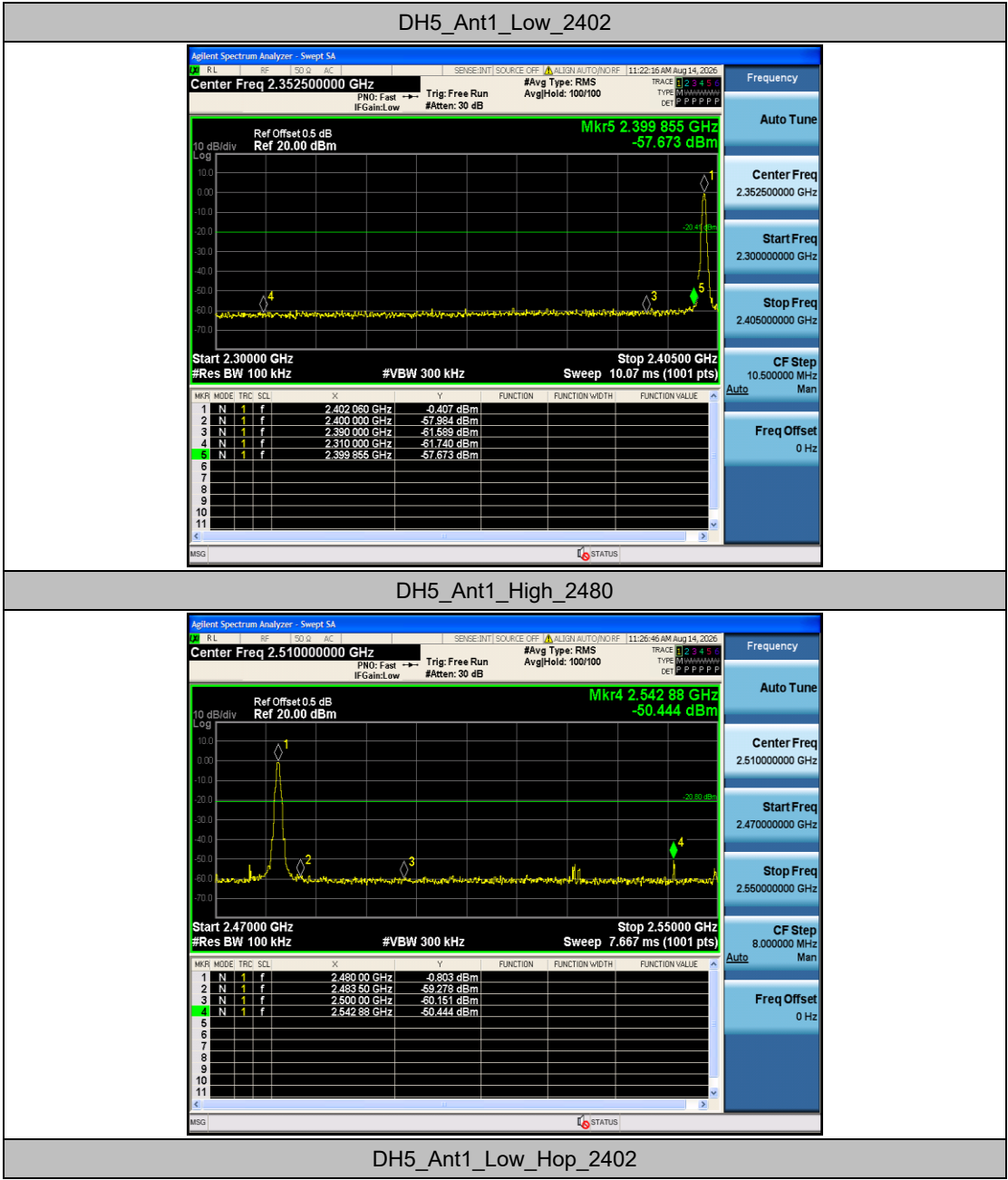


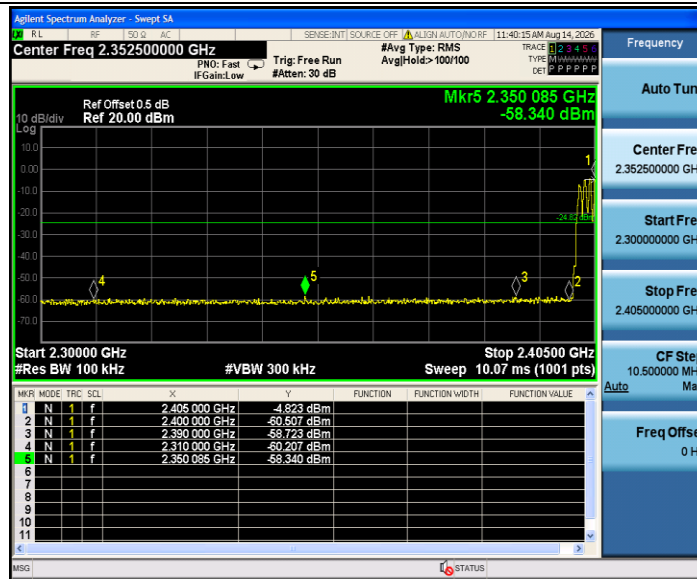
## Appendix G: Band edge measurements

### Test Result

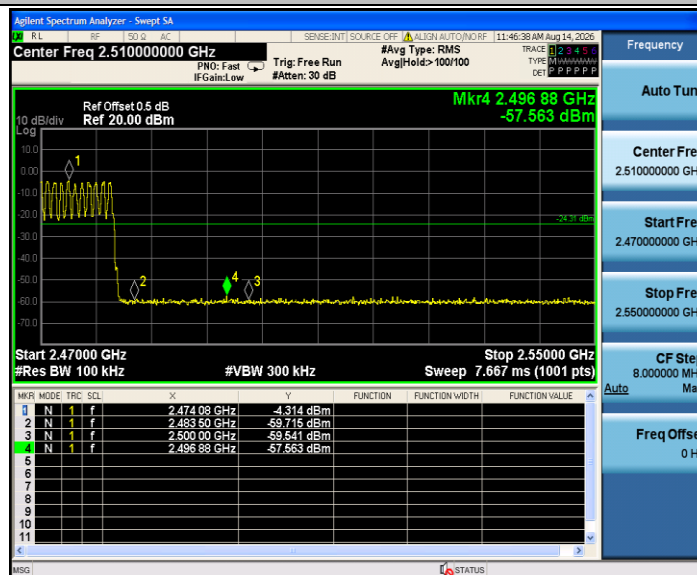
| TestMode | Antenna | ChName | Freq(MHz) | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|-----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402      | -0.41             | -57.67          | ≤-20.41        | PASS    |
|          |         | High   | 2480      | -0.80             | -50.44          | ≤-20.8         | PASS    |
|          |         | Low    | Hop_2402  | -4.82             | -58.34          | ≤-24.82        | PASS    |
|          |         | High   | Hop_2480  | -4.31             | -57.56          | ≤-24.31        | PASS    |
| 2DH5     | Ant1    | Low    | 2402      | -0.76             | -49.36          | ≤-20.76        | PASS    |
|          |         | High   | 2480      | -1.34             | -56.23          | ≤-21.34        | PASS    |
|          |         | Low    | Hop_2402  | -3.29             | -58.29          | ≤-23.29        | PASS    |
|          |         | High   | Hop_2480  | -4.59             | -55.65          | ≤-24.59        | PASS    |
| 3DH5     | Ant1    | Low    | 2402      | 0.03              | -49.5           | ≤-19.97        | PASS    |
|          |         | High   | 2480      | -0.79             | -58.43          | ≤-20.79        | PASS    |
|          |         | Low    | Hop_2402  | -5.87             | -58.65          | ≤-25.87        | PASS    |
|          |         | High   | Hop_2480  | -4.67             | -57.44          | ≤-24.67        | PASS    |

# Test Graphs

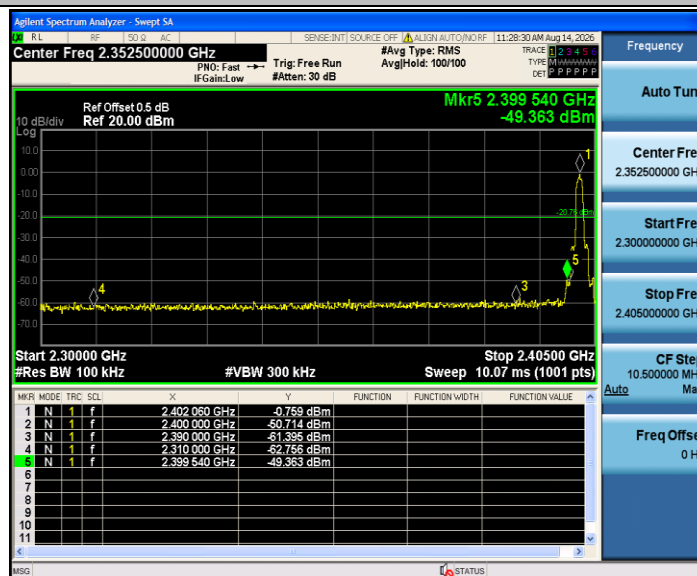




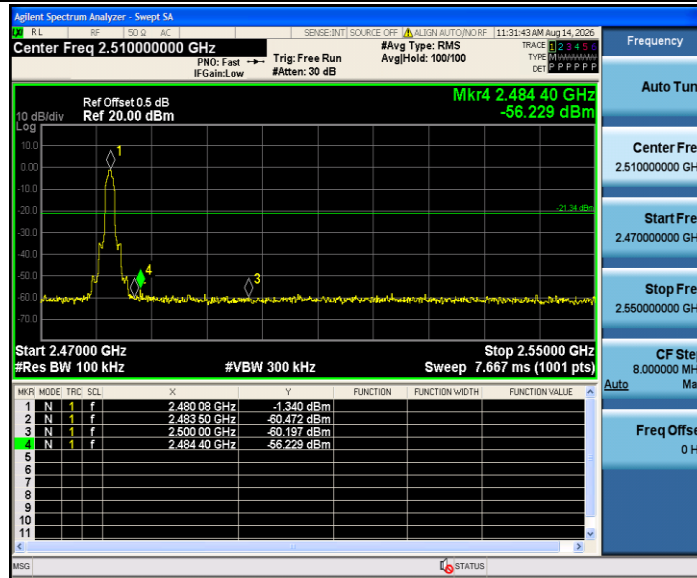
DH5\_Ant1\_High\_Hop\_2480



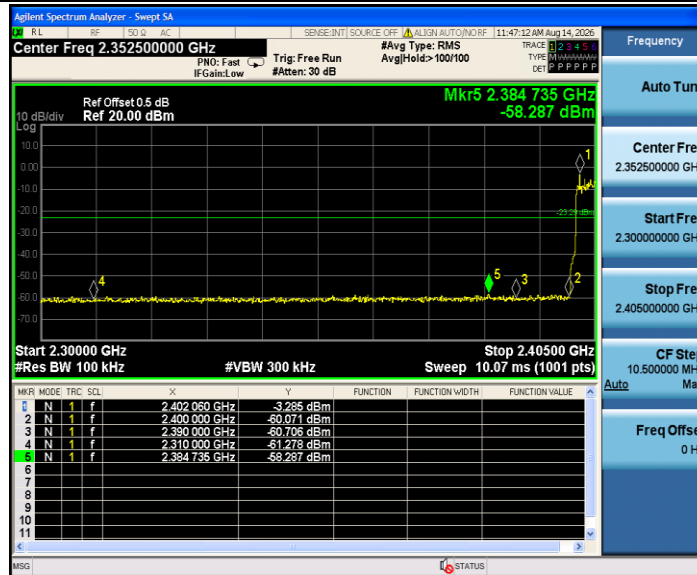
2DH5\_Ant1\_Low\_2402



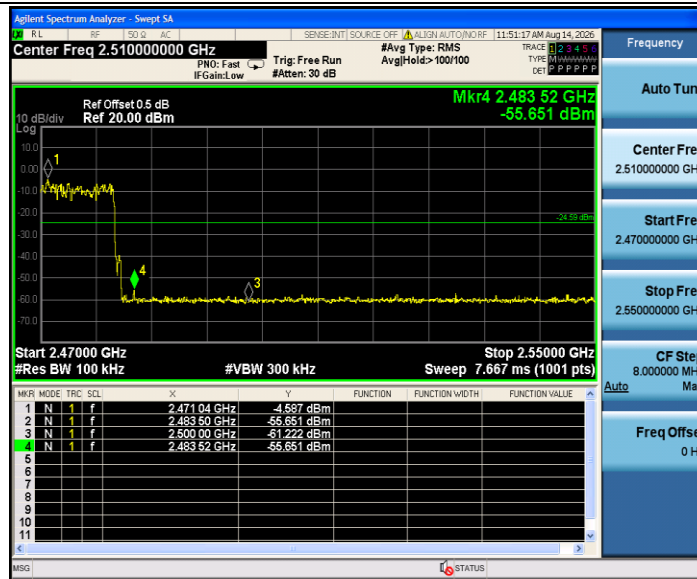
# 2DH5\_Ant1\_High\_2480



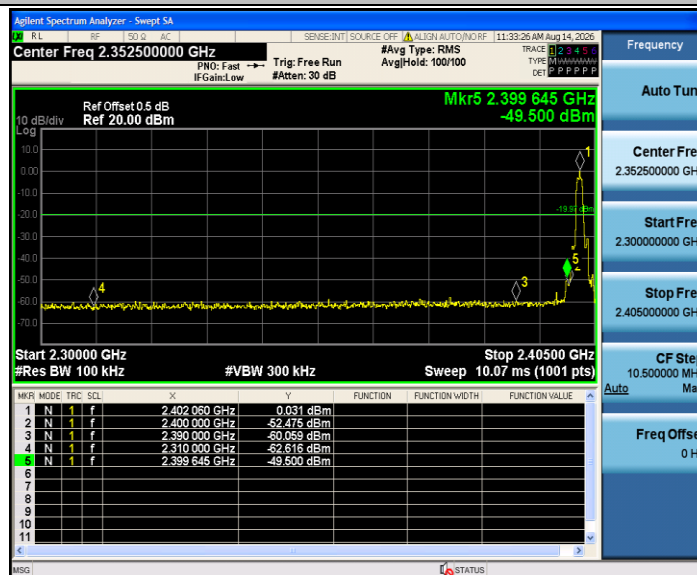
# 2DH5\_Ant1\_Low\_Hop\_2402



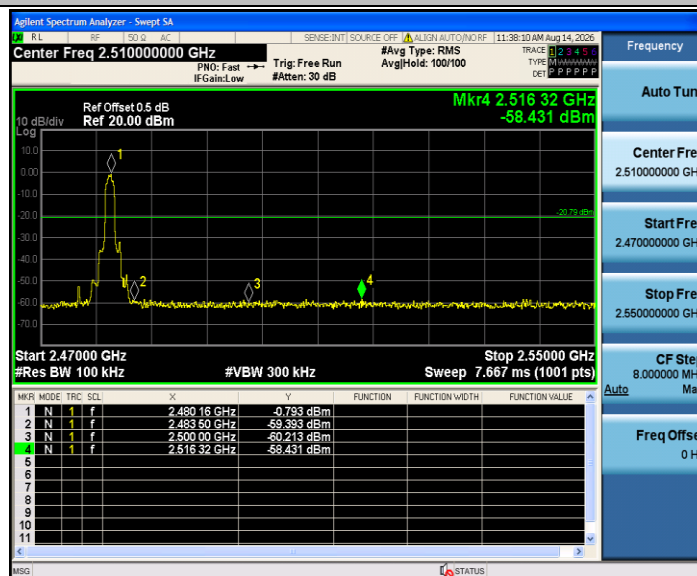
# 2DH5\_Ant1\_High\_Hop\_2480



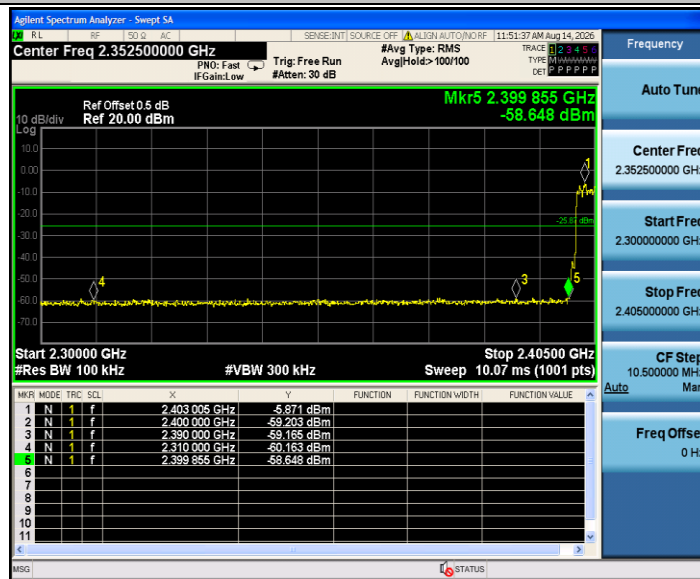
3DH5\_Ant1\_Low\_2402



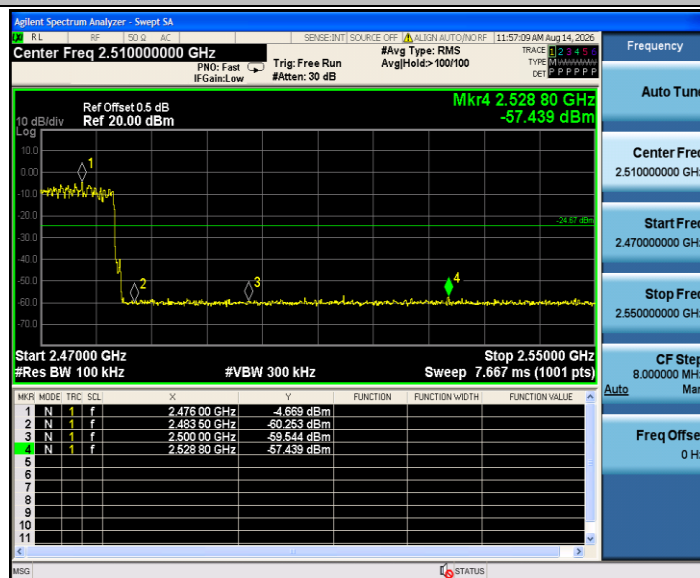
3DH5\_Ant1\_High\_2480



### 3DH5\_Ant1\_Low\_Hop\_2402



### 3DH5\_Ant1\_High\_Hop\_2480

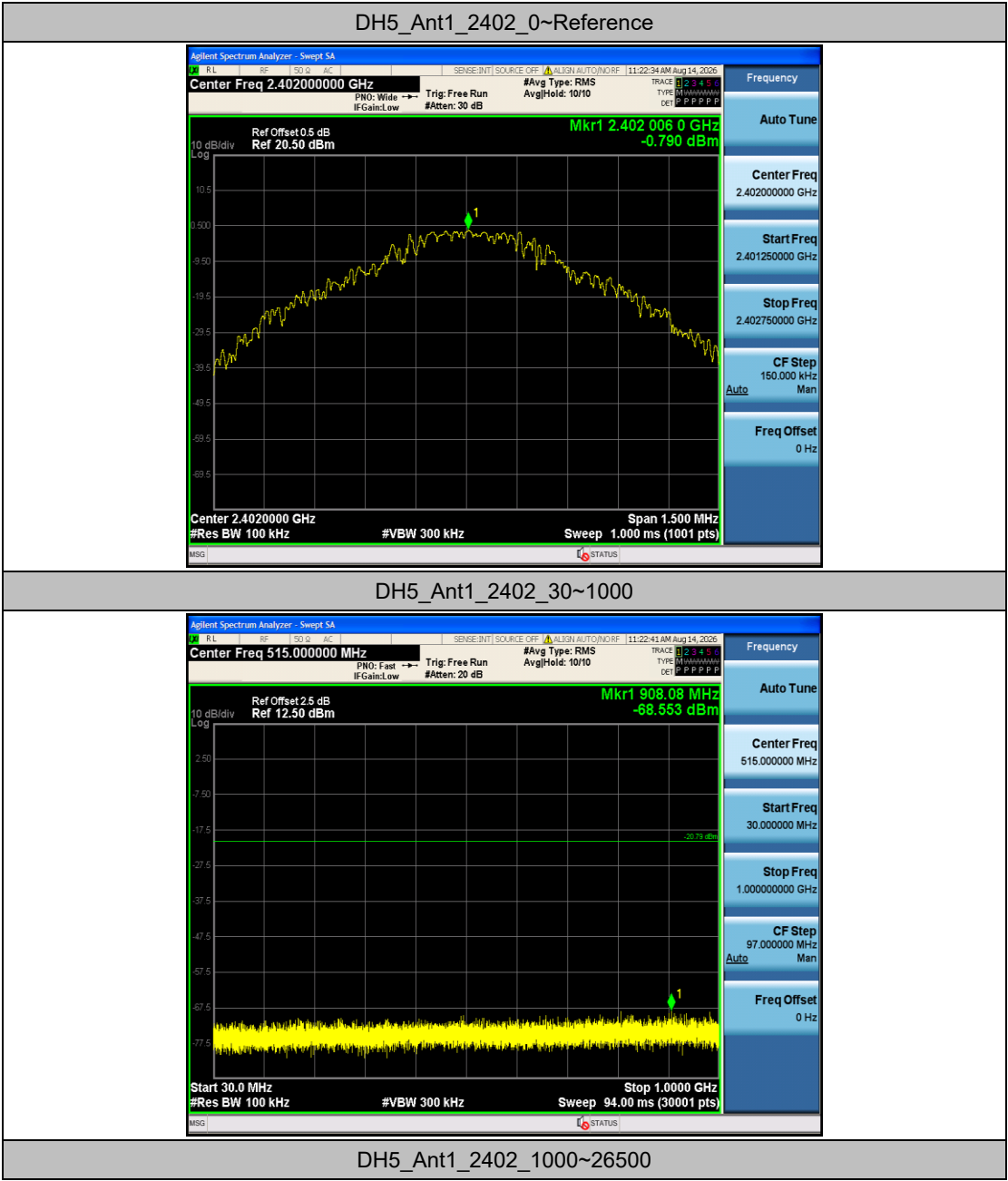


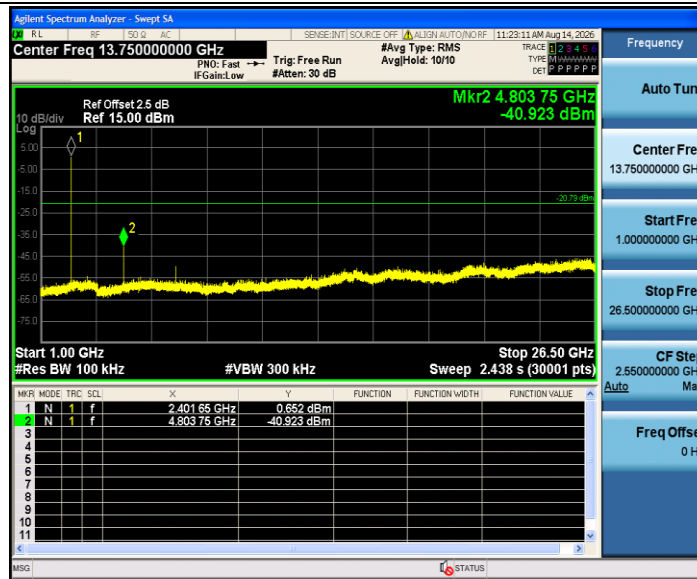
## Appendix H: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402      | Reference       | -0.79          | -0.79        | ---         | PASS    |
|          |         |           | 30~1000         | -0.79          | -68.55       | ≤-20.79     | PASS    |
|          |         |           | 1000~26500      | -0.79          | -40.92       | ≤-20.79     | PASS    |
|          |         | 2441      | Reference       | -0.06          | -0.06        | ---         | PASS    |
|          |         |           | 30~1000         | -0.06          | -68.34       | ≤-20.06     | PASS    |
|          |         |           | 1000~26500      | -0.06          | -42.62       | ≤-20.06     | PASS    |
|          |         | 2480      | Reference       | -0.70          | -0.70        | ---         | PASS    |
|          |         |           | 30~1000         | -0.70          | -68.53       | ≤-20.7      | PASS    |
|          |         |           | 1000~26500      | -0.70          | -40.35       | ≤-20.7      | PASS    |
| 2DH5     | Ant1    | 2402      | Reference       | -2.02          | -2.02        | ---         | PASS    |
|          |         |           | 30~1000         | -2.02          | -66.5        | ≤-22.02     | PASS    |
|          |         |           | 1000~26500      | -2.02          | -43.53       | ≤-22.02     | PASS    |
|          |         | 2441      | Reference       | -0.02          | -0.02        | ---         | PASS    |
|          |         |           | 30~1000         | -0.02          | -68.63       | ≤-20.02     | PASS    |
|          |         |           | 1000~26500      | -0.02          | -43.48       | ≤-20.02     | PASS    |
|          |         | 2480      | Reference       | -2.66          | -2.66        | ---         | PASS    |
|          |         |           | 30~1000         | -2.66          | -67.44       | ≤-22.66     | PASS    |
|          |         |           | 1000~26500      | -2.66          | -43.39       | ≤-22.66     | PASS    |
| 3DH5     | Ant1    | 2402      | Reference       | -1.04          | -1.04        | ---         | PASS    |
|          |         |           | 30~1000         | -1.04          | -69.2        | ≤-21.04     | PASS    |
|          |         |           | 1000~26500      | -1.04          | -40.01       | ≤-21.04     | PASS    |
|          |         | 2441      | Reference       | -0.56          | -0.56        | ---         | PASS    |
|          |         |           | 30~1000         | -0.56          | -68.65       | ≤-20.56     | PASS    |
|          |         |           | 1000~26500      | -0.56          | -43.5        | ≤-20.56     | PASS    |
|          |         | 2480      | Reference       | -0.70          | -0.70        | ---         | PASS    |
|          |         |           | 30~1000         | -0.70          | -68.82       | ≤-20.7      | PASS    |
|          |         |           | 1000~26500      | -0.70          | -39.76       | ≤-20.7      | PASS    |

Test Graphs

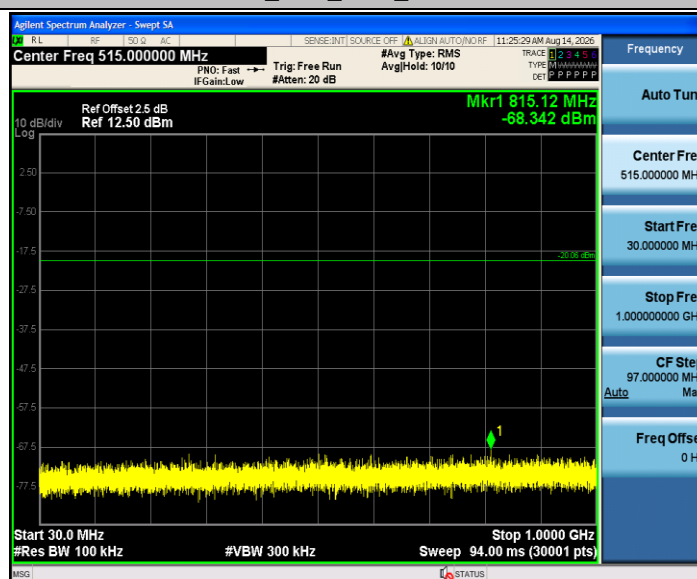




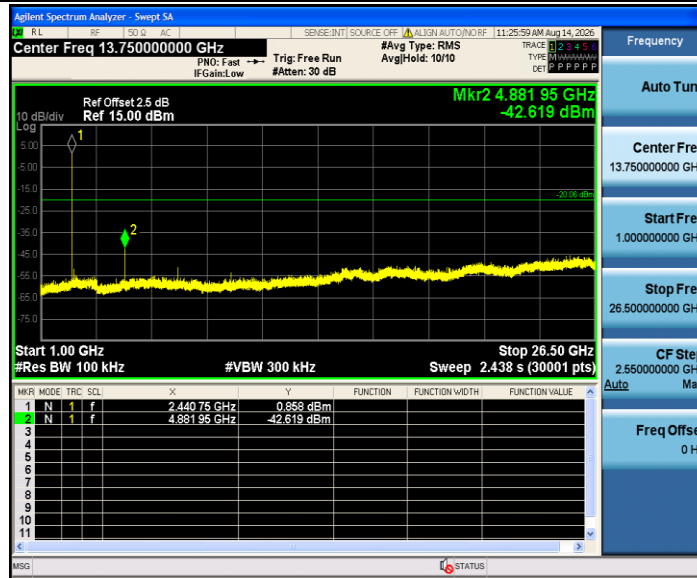
DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



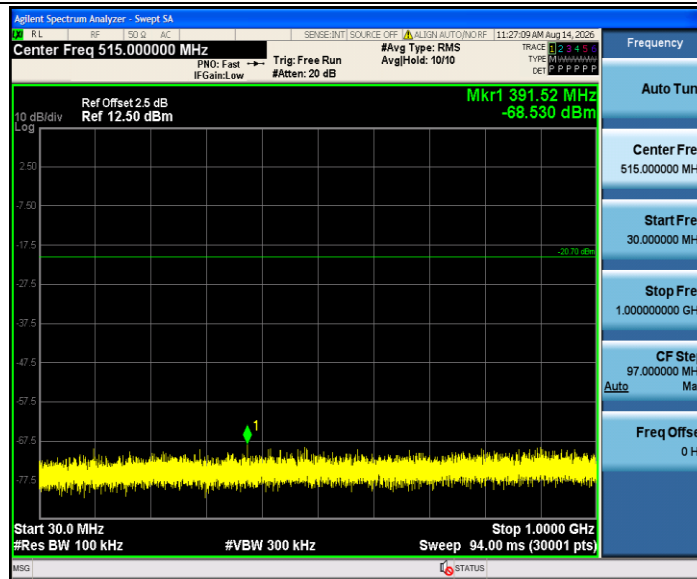
# DH5\_Ant1\_2441\_1000~26500



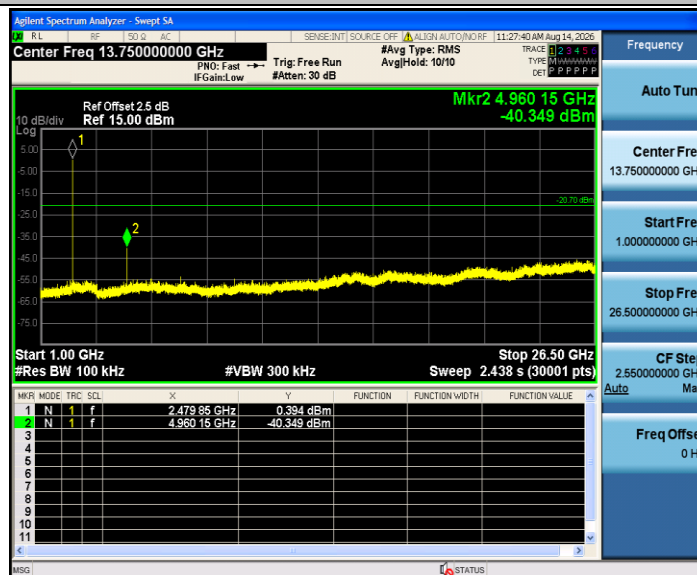
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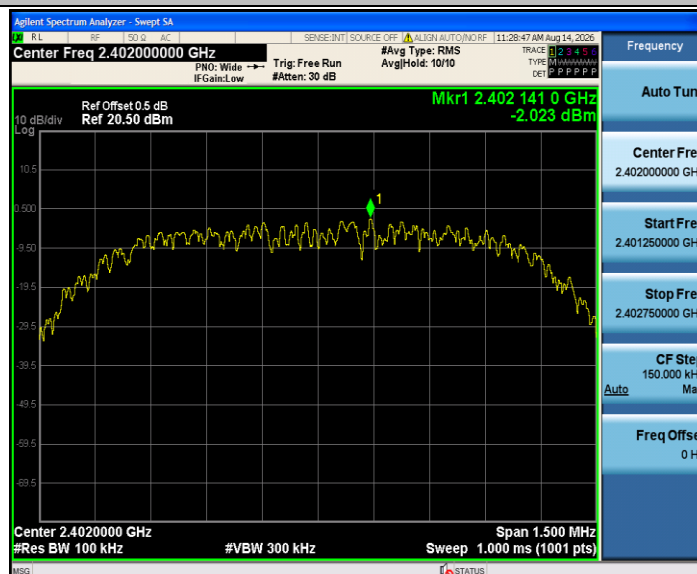
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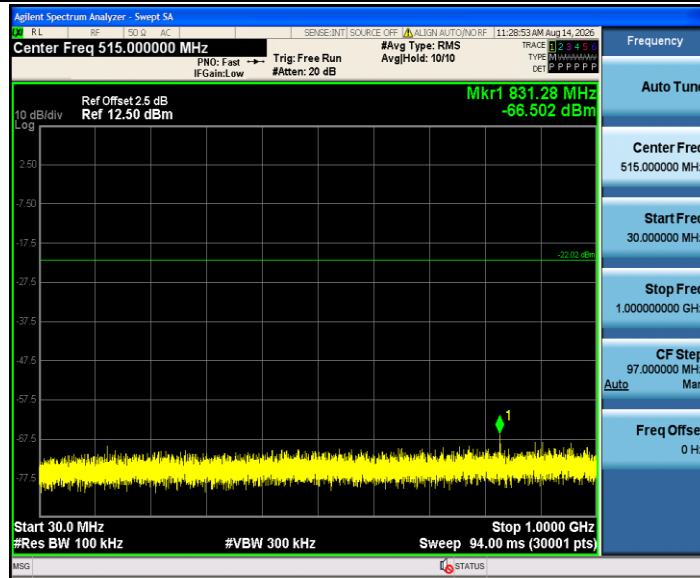
DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference



### 2DH5\_Ant1\_2402\_30~1000



### 2DH5\_Ant1\_2402\_1000~26500



### 2DH5\_Ant1\_2441\_0~Reference