

|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>GTS20250219002-1-03</u>          |                                          |
| <b>Ambient Condition:</b> <u>22</u> °C, <u>53</u> %RH |                                          |
| <b>According Standard:</b> ■Part15C                   |                                          |
| <b>Test Date:</b> <u>2025.3.13</u>                    | <b>Test Engineer:</b> <u>Evan ouyang</u> |

## Appendix A.1: 20dB Emission Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | 20dB<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|-----------|------------------|----------|----------|------------|---------|
| DH1      | Ant1    | 2402      | 0.939            | 2401.517 | 2402.456 | ---        | ---     |
|          |         | 2441      | 0.945            | 2440.514 | 2441.459 | ---        | ---     |
|          |         | 2480      | 0.930            | 2479.529 | 2480.459 | ---        | ---     |
| 2DH1     | Ant1    | 2402      | 1.317            | 2401.316 | 2402.633 | ---        | ---     |
|          |         | 2441      | 1.290            | 2440.328 | 2441.618 | ---        | ---     |
|          |         | 2480      | 1.308            | 2479.322 | 2480.630 | ---        | ---     |
| 3DH1     | Ant1    | 2402      | 1.272            | 2401.349 | 2402.621 | ---        | ---     |
|          |         | 2441      | 1.278            | 2440.346 | 2441.624 | ---        | ---     |
|          |         | 2480      | 1.290            | 2479.334 | 2480.624 | ---        | ---     |

## Test Graphs

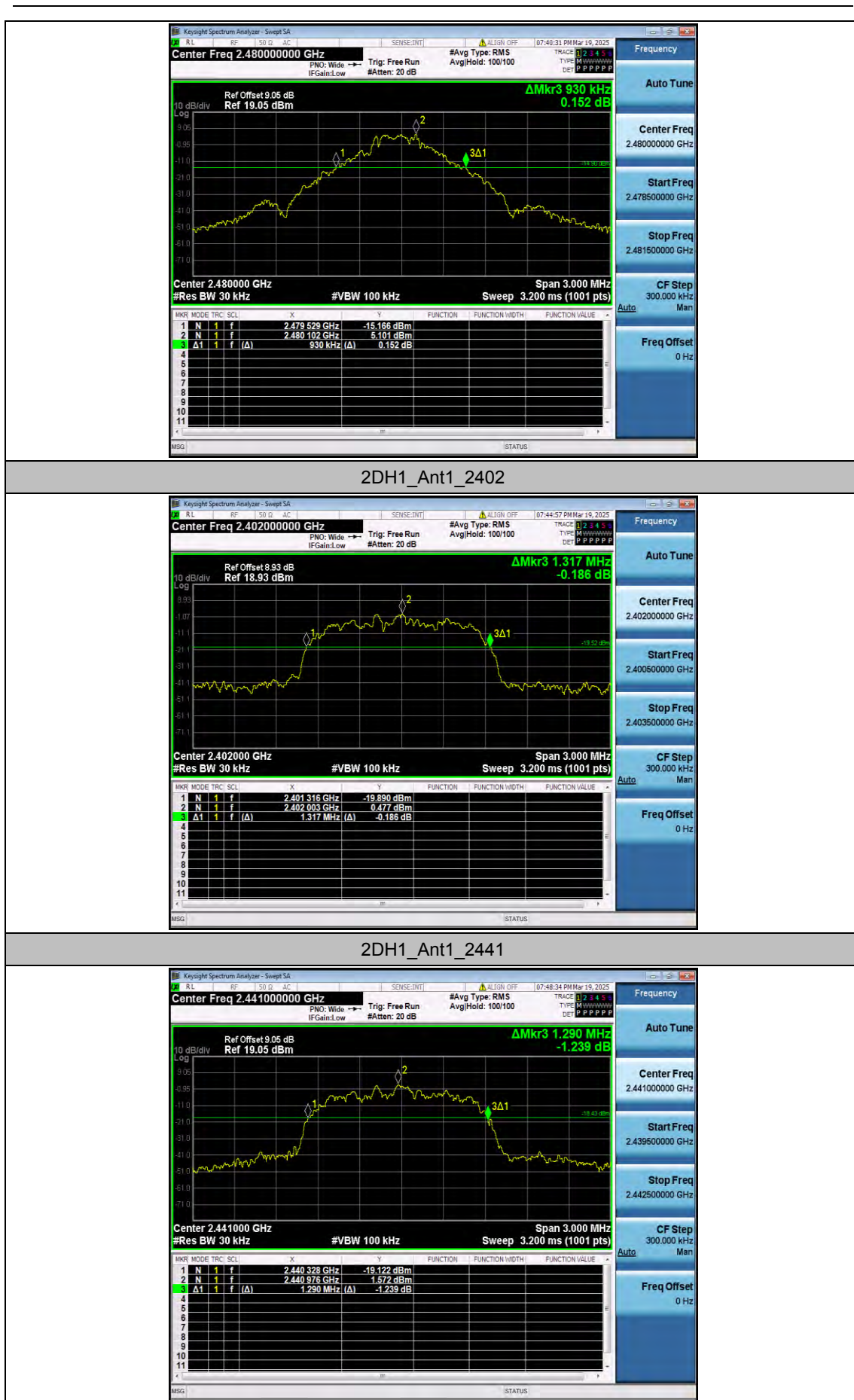
DH1\_Ant1\_2402



DH1\_Ant1\_2441



DH1\_Ant1\_2480



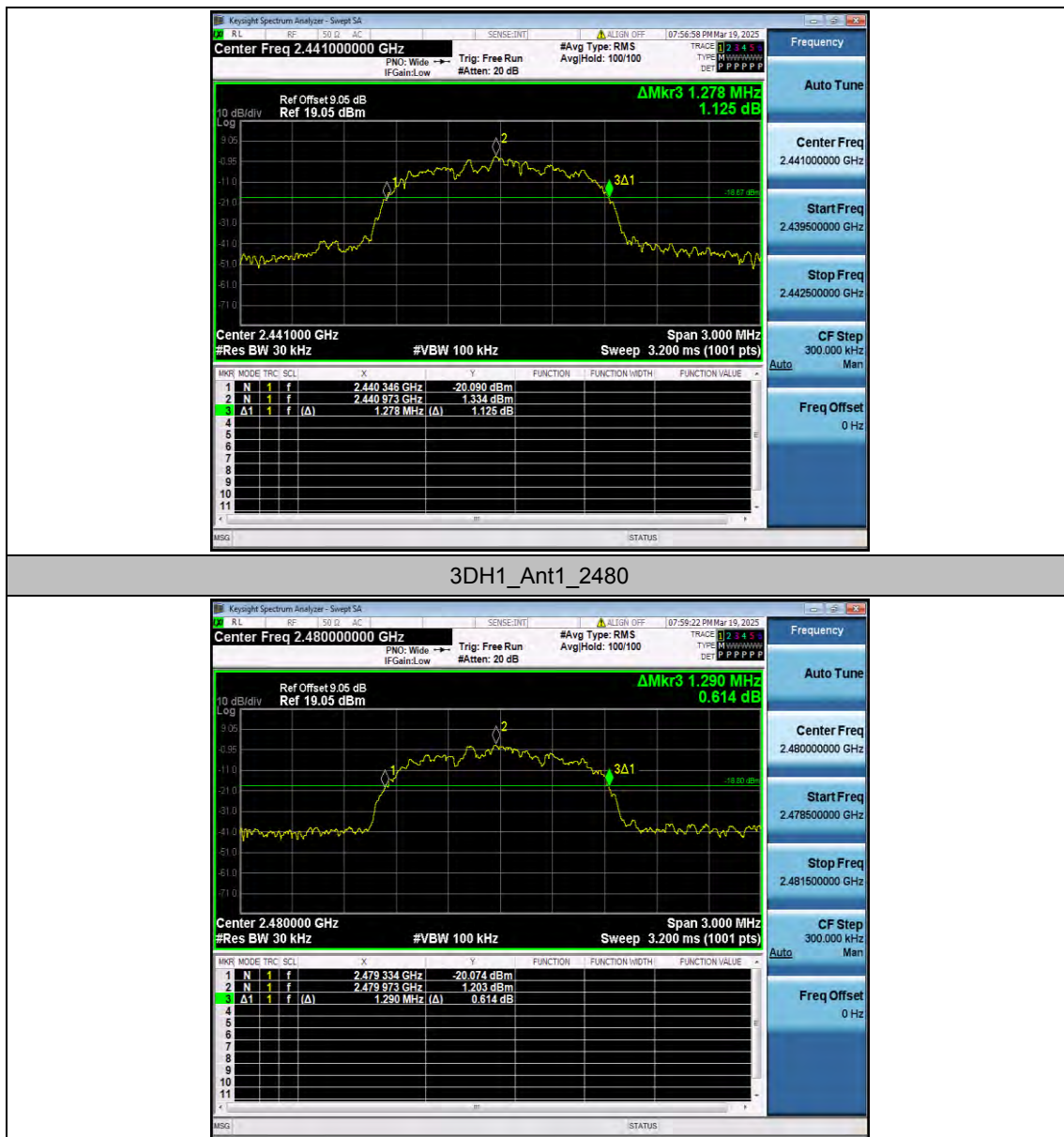
## 2DH1\_Ant1\_2480



## 3DH1\_Ant1\_2402



## 3DH1\_Ant1\_2441



## Appendix A.2: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| DH1      | Ant1    | 2402      | 0.84641   | 2401.5584 | 2402.4048 | ---        | ---     |
|          |         | 2441      | 0.83510   | 2440.5688 | 2441.4039 | ---        | ---     |
|          |         | 2480      | 0.84418   | 2479.5608 | 2480.4050 | ---        | ---     |
| 2DH1     | Ant1    | 2402      | 1.1781    | 2401.3893 | 2402.5674 | ---        | ---     |
|          |         | 2441      | 1.1741    | 2440.3875 | 2441.5616 | ---        | ---     |
|          |         | 2480      | 1.1788    | 2479.3841 | 2480.5629 | ---        | ---     |
| 3DH1     | Ant1    | 2402      | 1.1617    | 2401.4147 | 2402.5764 | ---        | ---     |
|          |         | 2441      | 1.1628    | 2440.4118 | 2441.5746 | ---        | ---     |
|          |         | 2480      | 1.1693    | 2479.4072 | 2480.5765 | ---        | ---     |



## Test Graphs

DH1\_Ant1\_2402



DH1\_Ant1\_2441



DH1\_Ant1\_2480



2DH1\_Ant1\_2402



2DH1\_Ant1\_2441





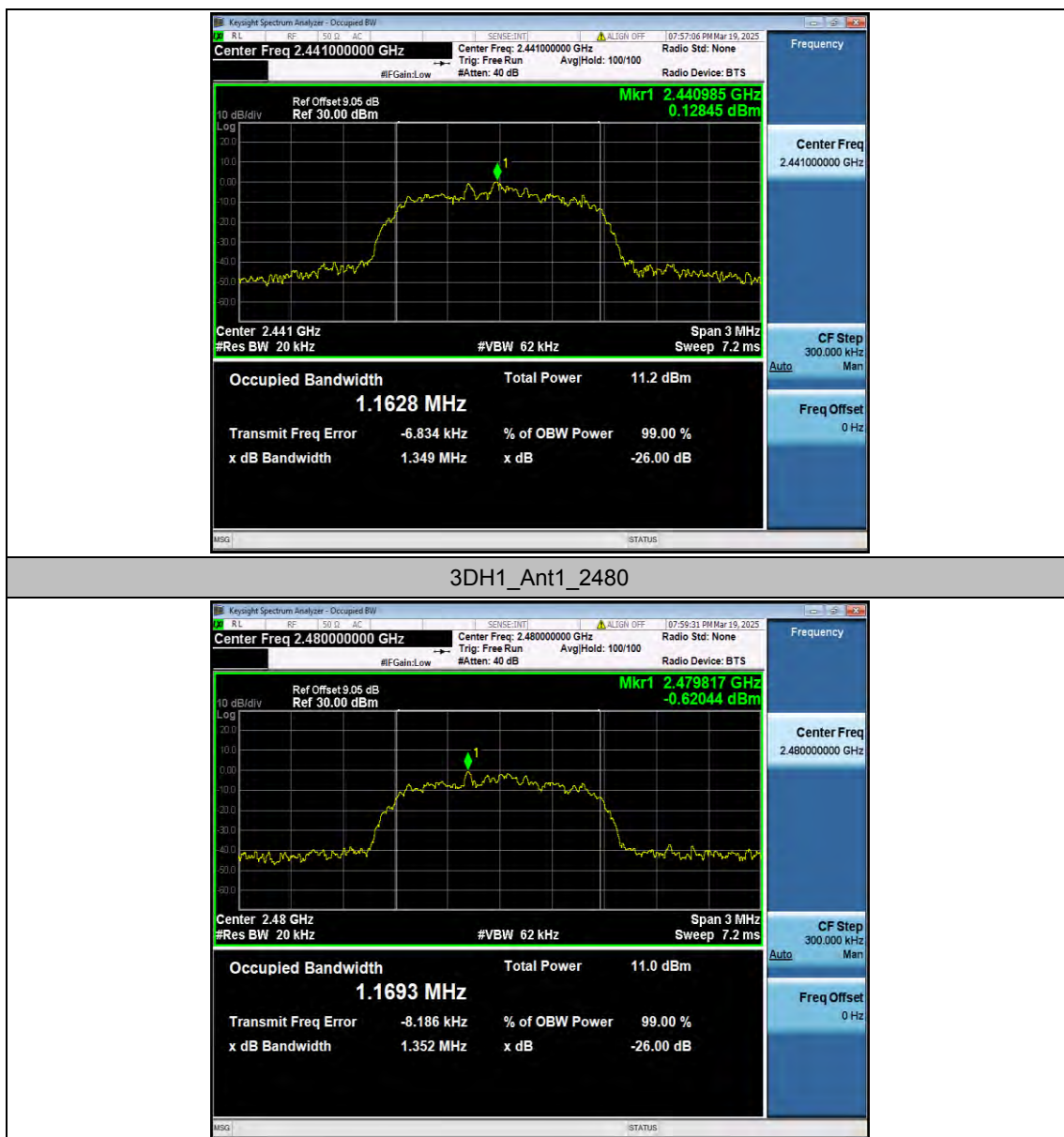
## 2DH1\_Ant1\_2480



## 3DH1\_Ant1\_2402



## 3DH1\_Ant1\_2441



## Appendix A.3: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------|---------------------------|----------------------|---------|
| DH1       | Ant1    | 2402      | 8.75                      | ≤30.00               | PASS    |
|           |         | 2441      | 9.16                      | ≤30.00               | PASS    |
|           |         | 2480      | 9.31                      | ≤30.00               | PASS    |
| 2DH1      | Ant1    | 2402      | 8.25                      | ≤20.97               | PASS    |
|           |         | 2441      | 8.60                      | ≤20.97               | PASS    |
|           |         | 2480      | 8.74                      | ≤20.97               | PASS    |
| 3DH1      | Ant1    | 2402      | 8.55                      | ≤20.97               | PASS    |
|           |         | 2441      | 8.94                      | ≤20.97               | PASS    |
|           |         | 2480      | 9.07                      | ≤20.97               | PASS    |

## Appendix A.4: Carrier frequency separation

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|-----------|-------------|--------------|---------|
| DH1      | Ant1    | Hop_2402  | 1.3         | $\geq 0.945$ | PASS    |
|          |         | Hop_2441  | 1.314       | $\geq 0.945$ | PASS    |
|          |         | Hop_2480  | 0.966       | $\geq 0.945$ | PASS    |
| 2DH1     | Ant1    | Hop_2402  | 1.03        | $\geq 0.878$ | PASS    |
|          |         | Hop_2441  | 0.98        | $\geq 0.878$ | PASS    |
|          |         | Hop_2480  | 1.158       | $\geq 0.878$ | PASS    |
| 3DH1     | Ant1    | Hop_2402  | 0.954       | $\geq 0.860$ | PASS    |
|          |         | Hop_2441  | 1.006       | $\geq 0.860$ | PASS    |
|          |         | Hop_2480  | 1.01        | $\geq 0.860$ | PASS    |

## Test Graphs

DH1\_Ant1\_Hop\_2402



DH1\_Ant1\_Hop\_2441



DH1\_Ant1\_Hop\_2480





2DH1\_Ant1\_Hop\_2402



2DH1\_Ant1\_Hop\_2441



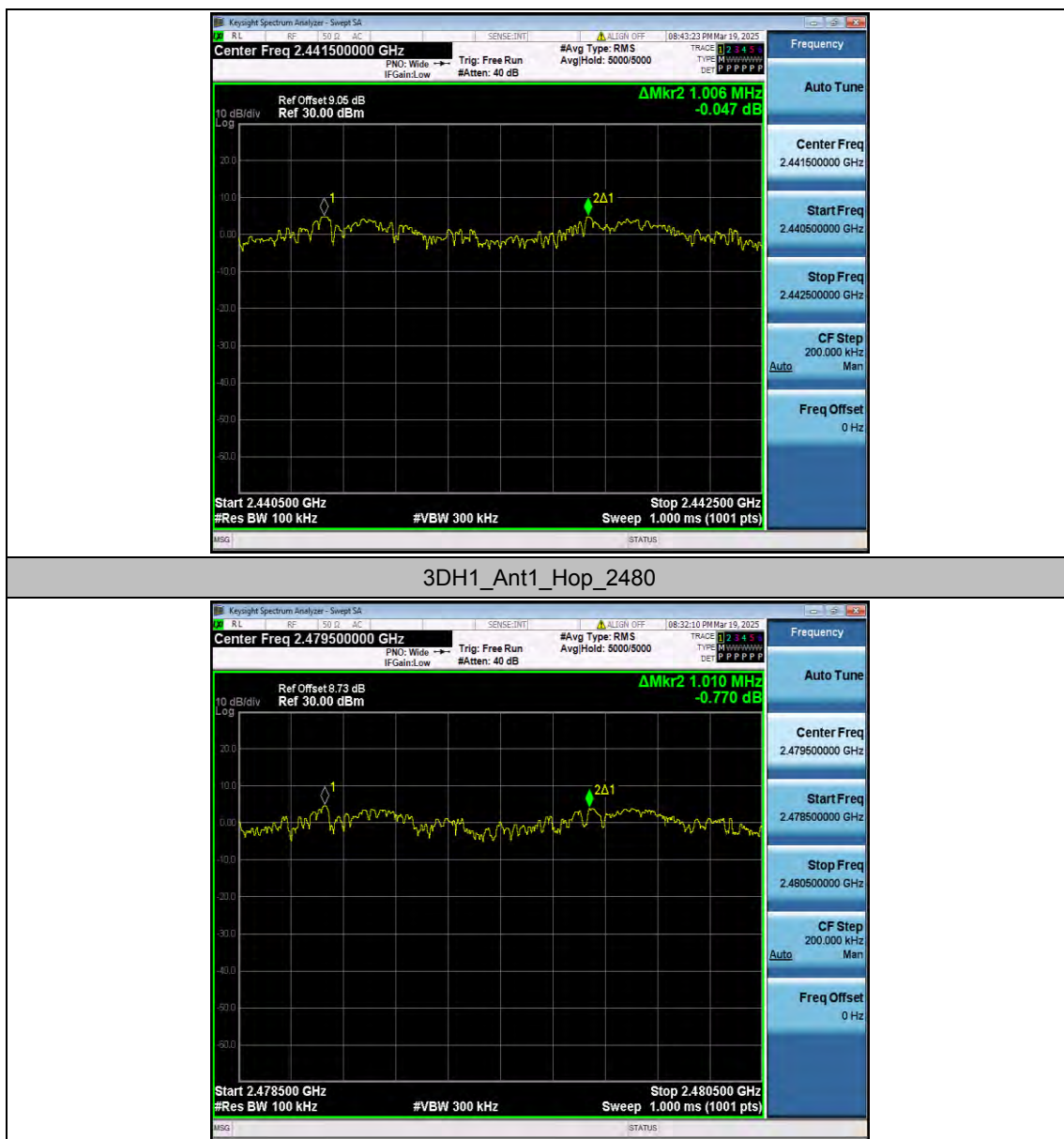
## 2DH1\_Ant1\_Hop\_2480



## 3DH1\_Ant1\_Hop\_2402



## 3DH1\_Ant1\_Hop\_2441

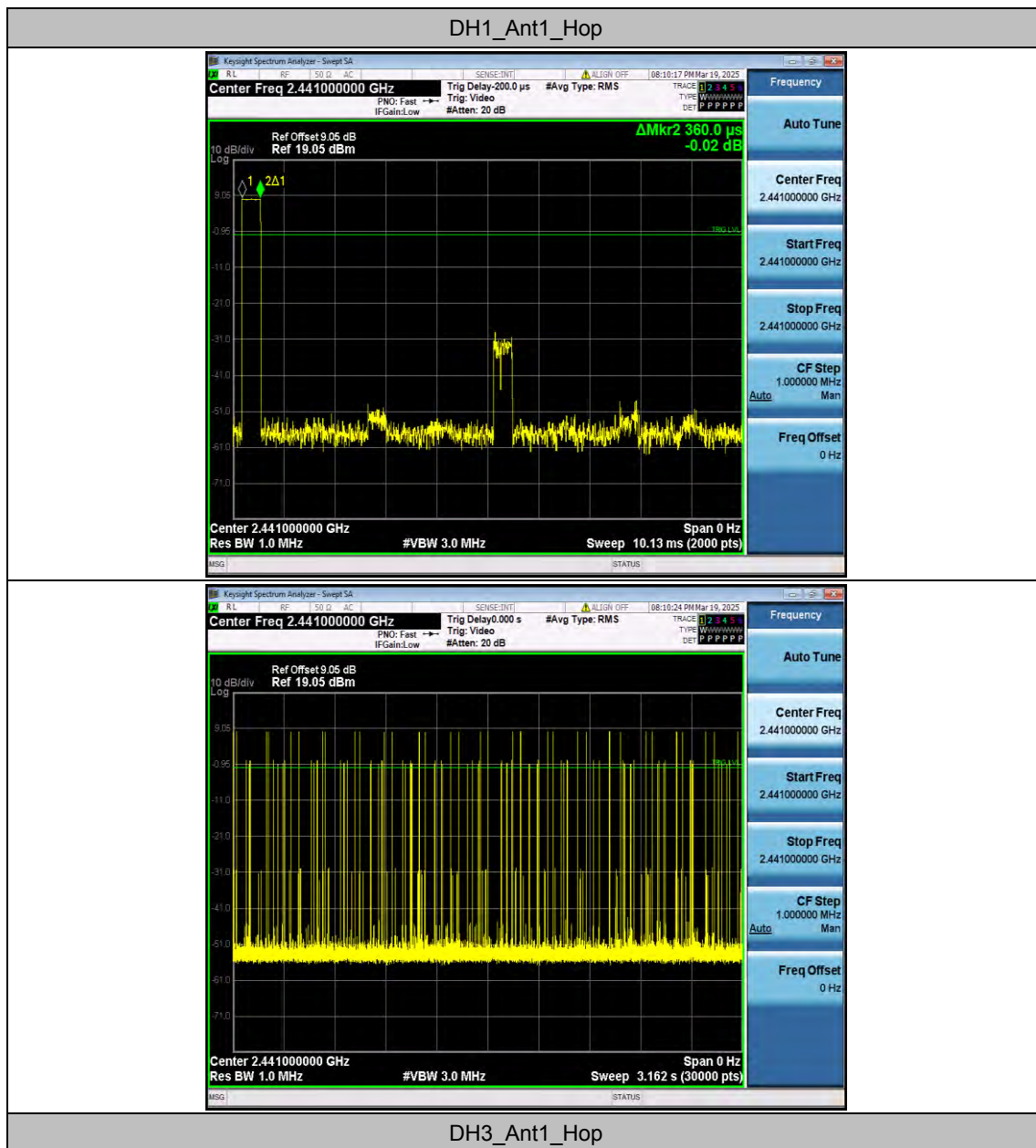


## Appendix A.5: Time of occupancy

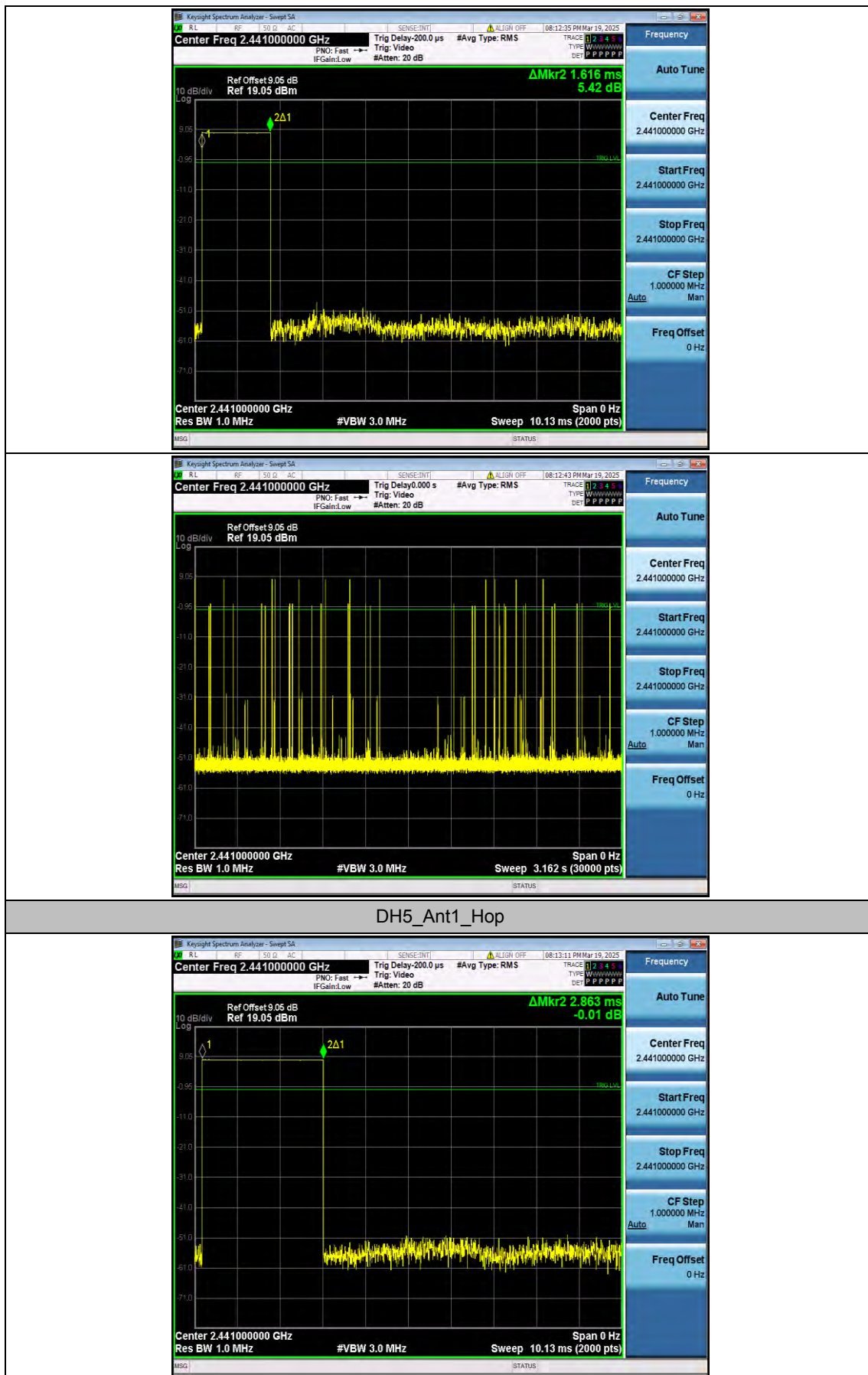
### Test Result

| TestMode | Antenna | Freq(MHz) | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|-----------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop       | 0.360              | 330                | 0.119     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop       | 1.616              | 120                | 0.194     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop       | 2.863              | 60                 | 0.172     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop       | 0.360              | 330                | 0.119     | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop       | 1.616              | 170                | 0.275     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop       | 2.863              | 80                 | 0.229     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop       | 0.360              | 330                | 0.119     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop       | 1.616              | 210                | 0.339     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop       | 2.863              | 130                | 0.372     | ≤0.4     | PASS    |

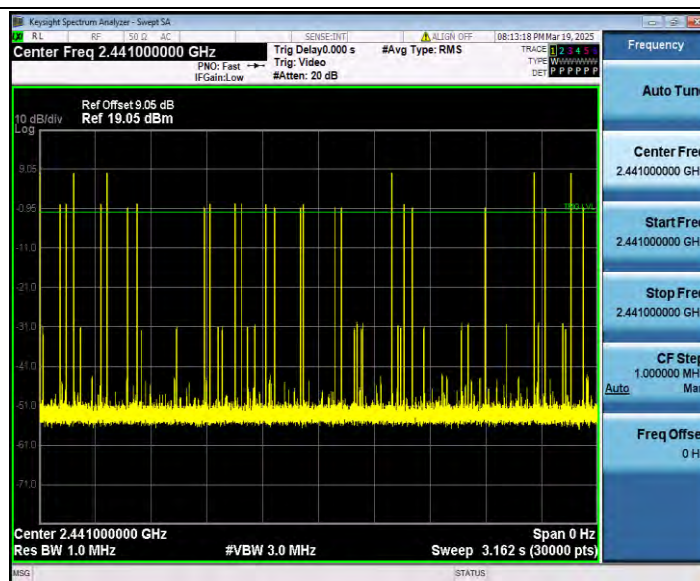
## Test Graphs



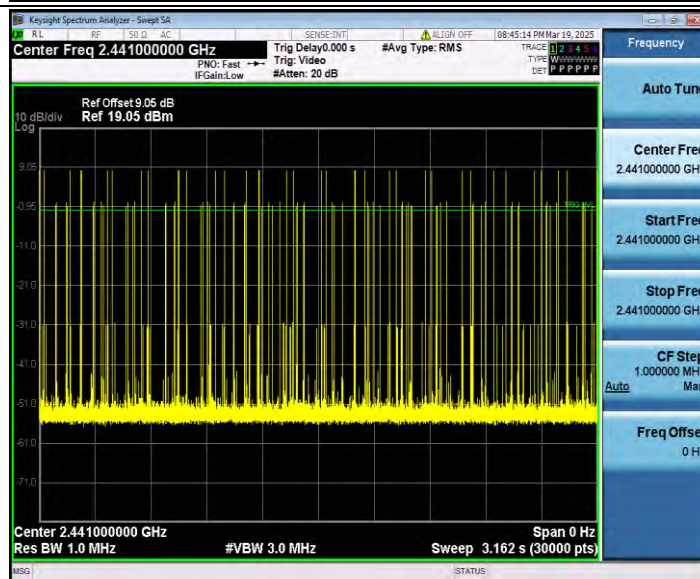
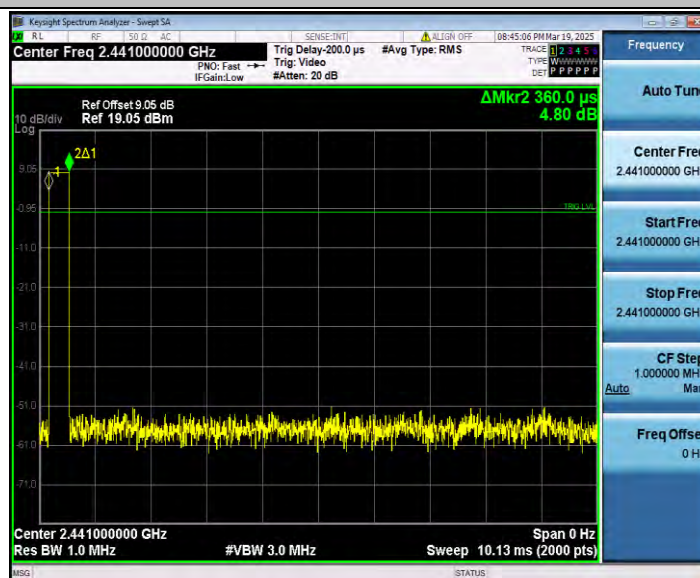




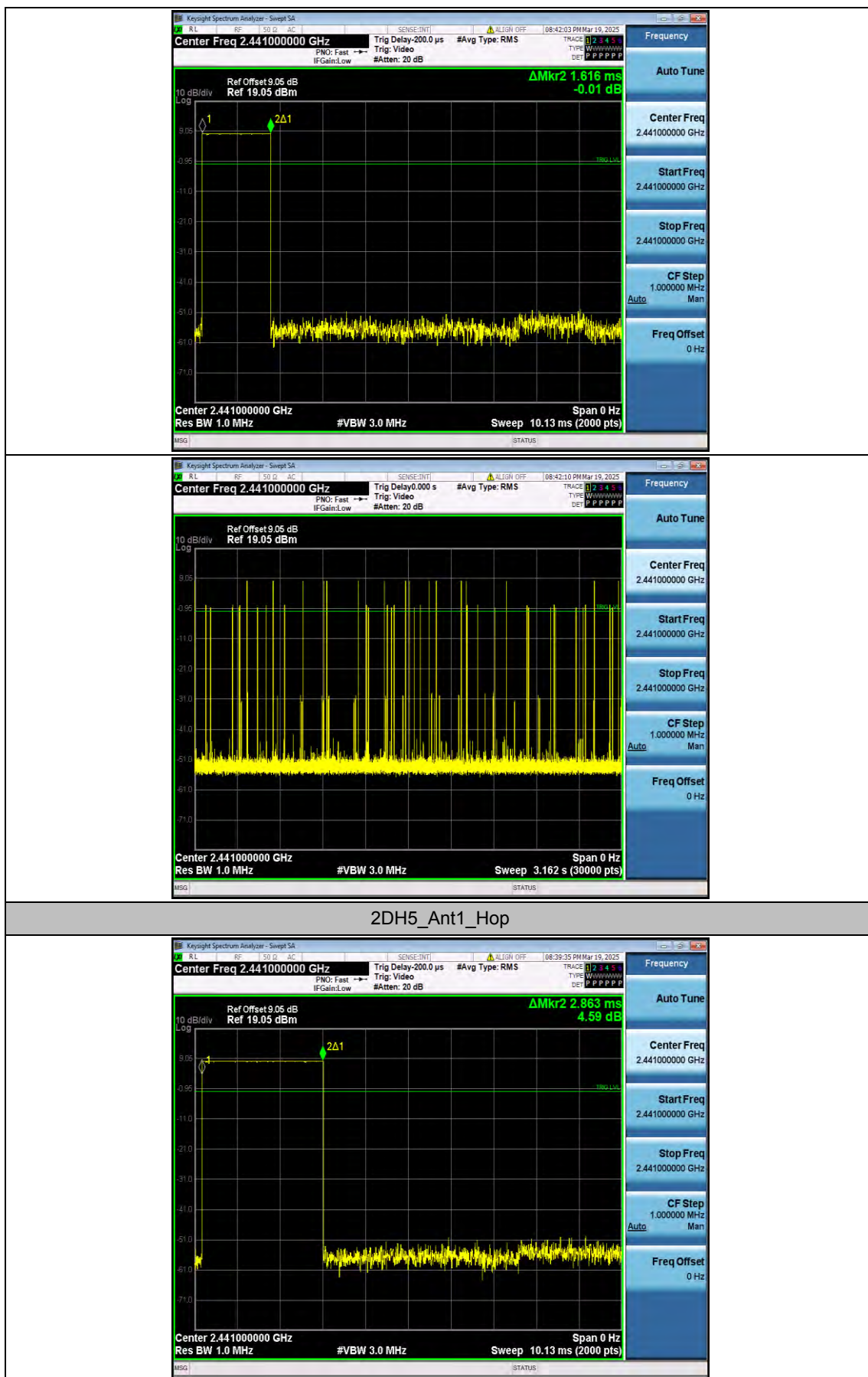


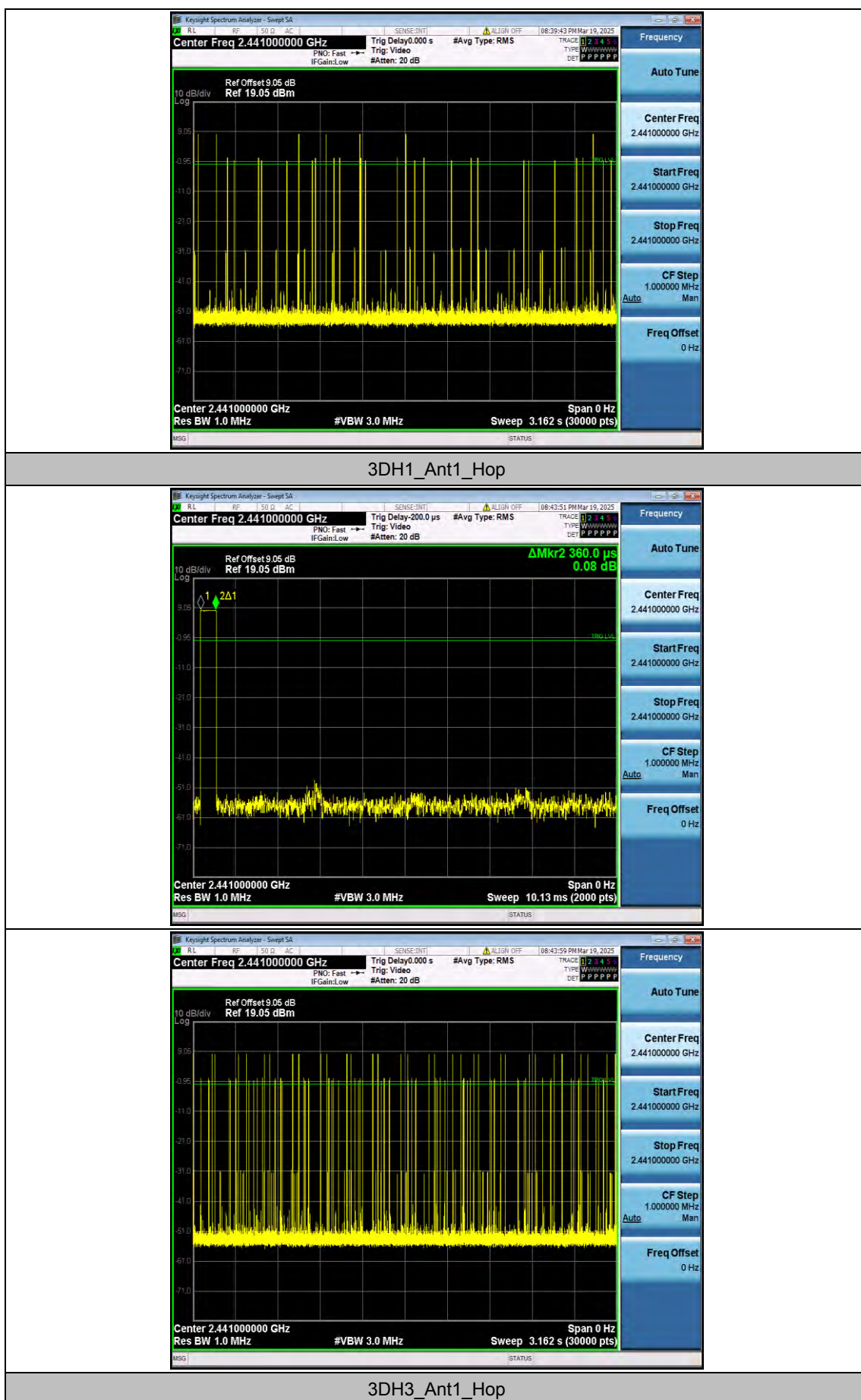


2DH1\_Ant1\_Hop

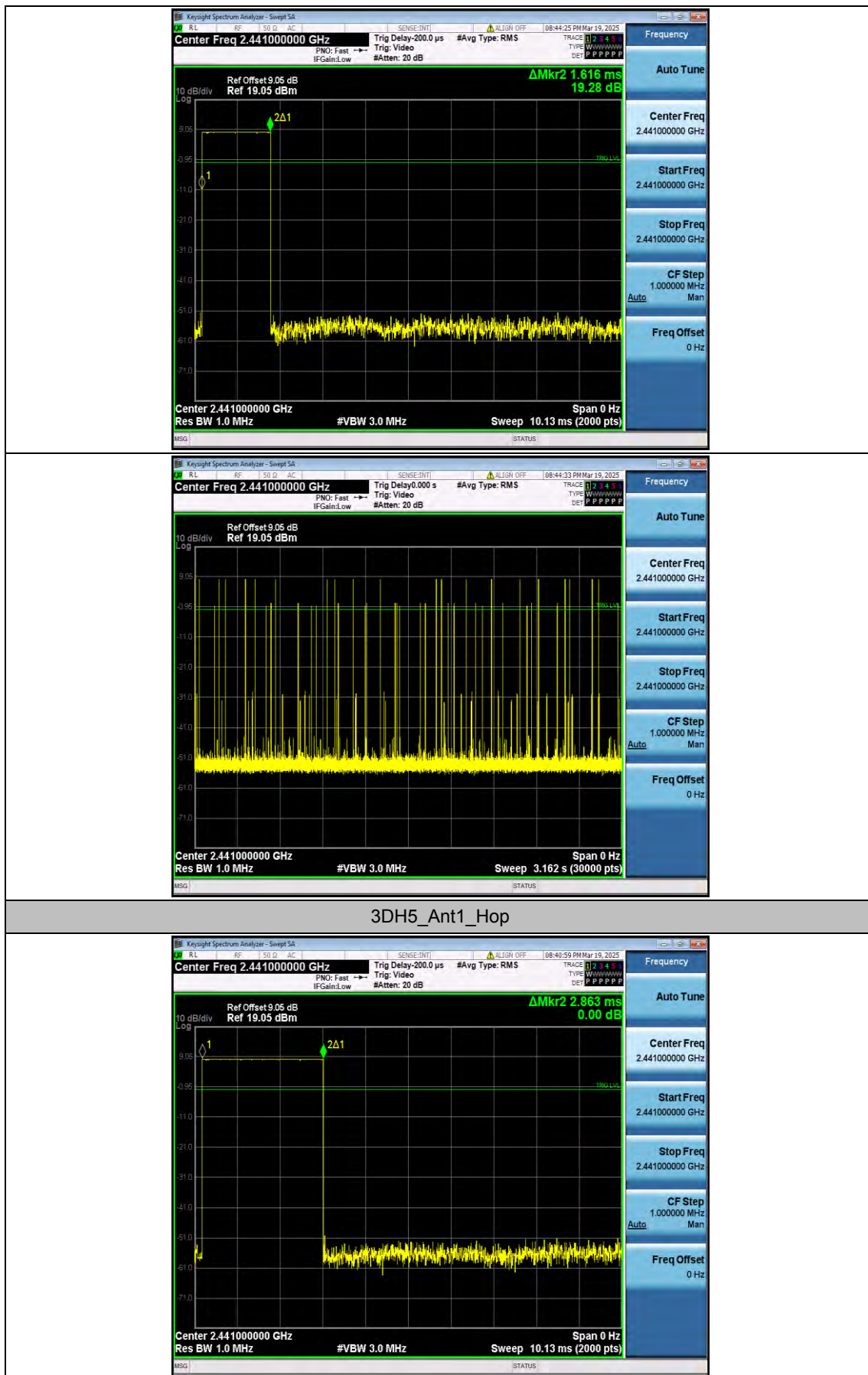


2DH3\_Ant1\_Hop











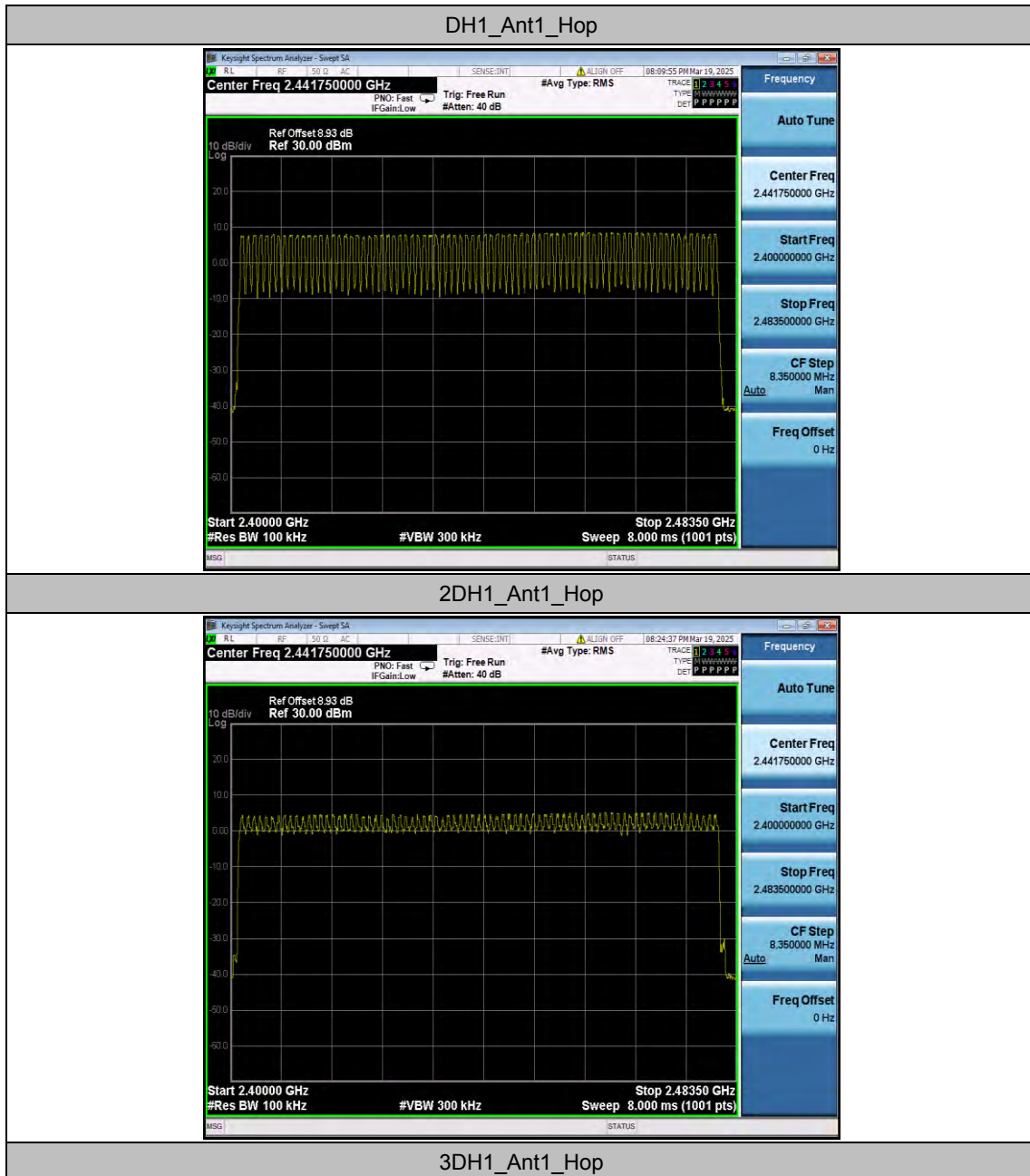
## Appendix A.6: Number of hopping channels

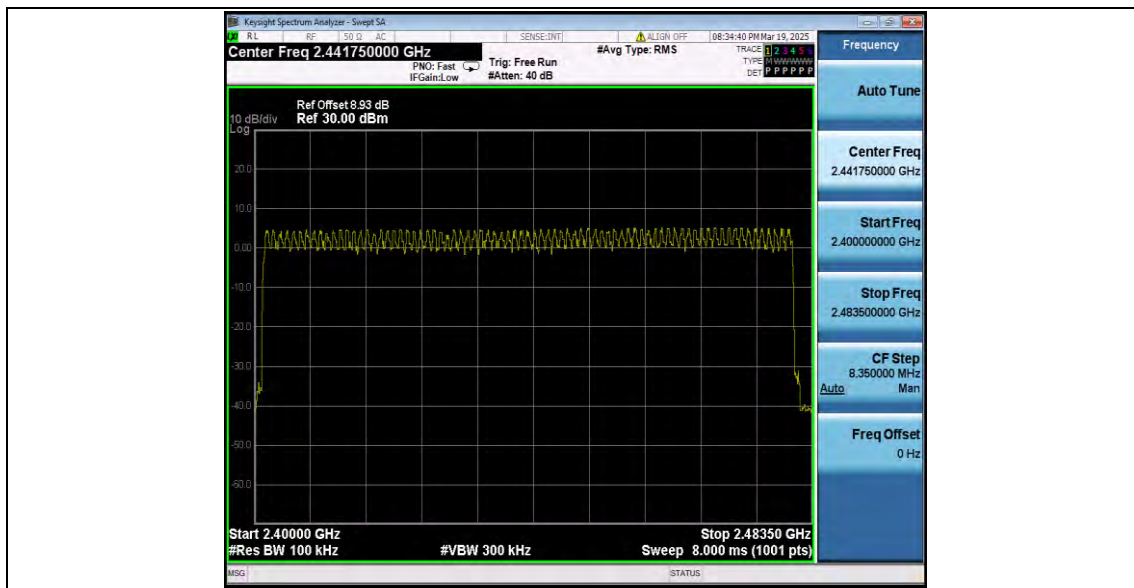
### Test Result

| TestMode | Antenna | Freq(MHz) | Result[Num] | Limit[Num] | Verdict |
|----------|---------|-----------|-------------|------------|---------|
| DH1      | Ant1    | Hop       | 79          | ≥15        | PASS    |
| 2DH1     | Ant1    | Hop       | 79          | ≥15        | PASS    |
| 3DH1     | Ant1    | Hop       | 79          | ≥15        | PASS    |



## Test Graphs



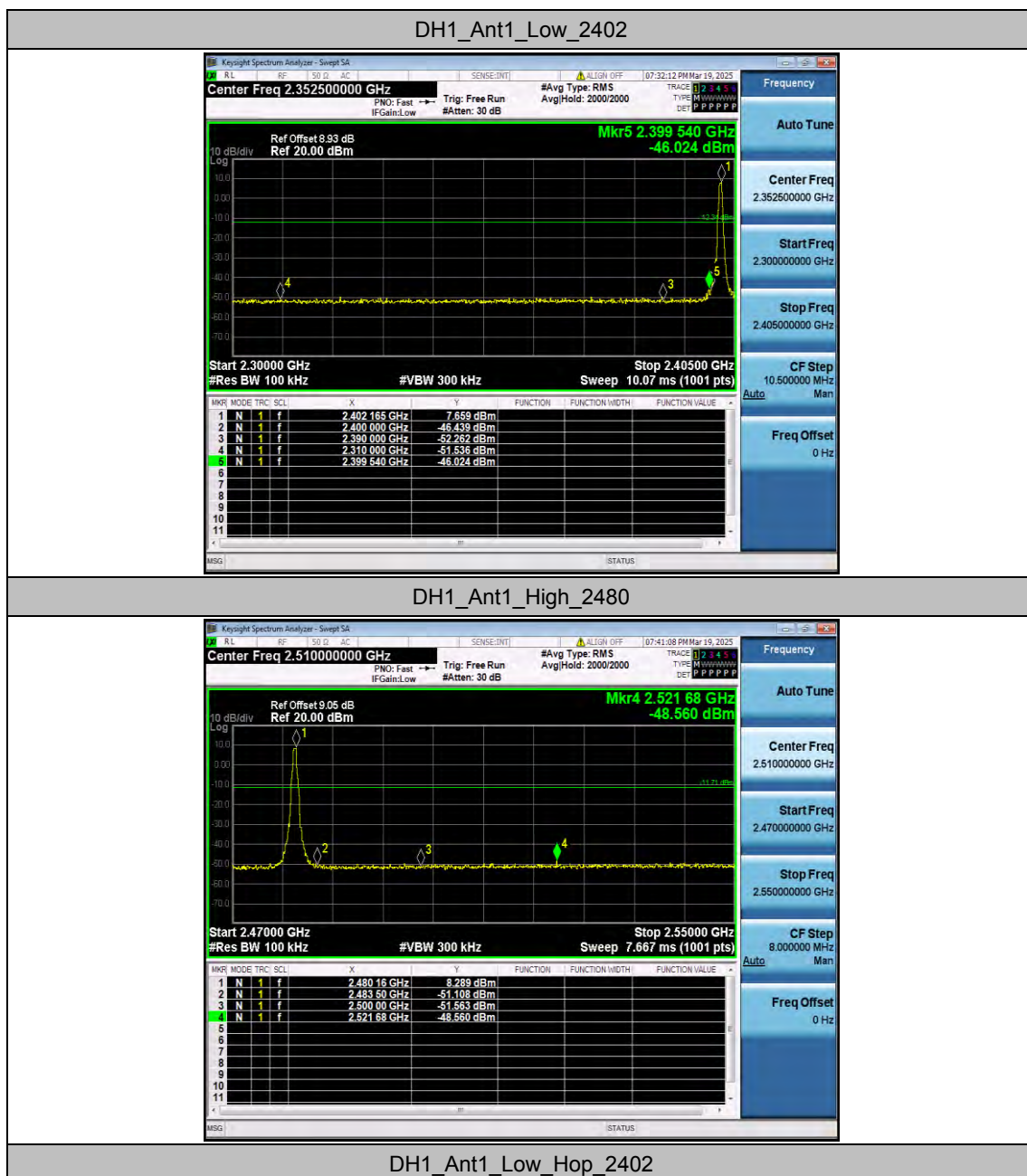


## Appendix A.7: Band edge measurements

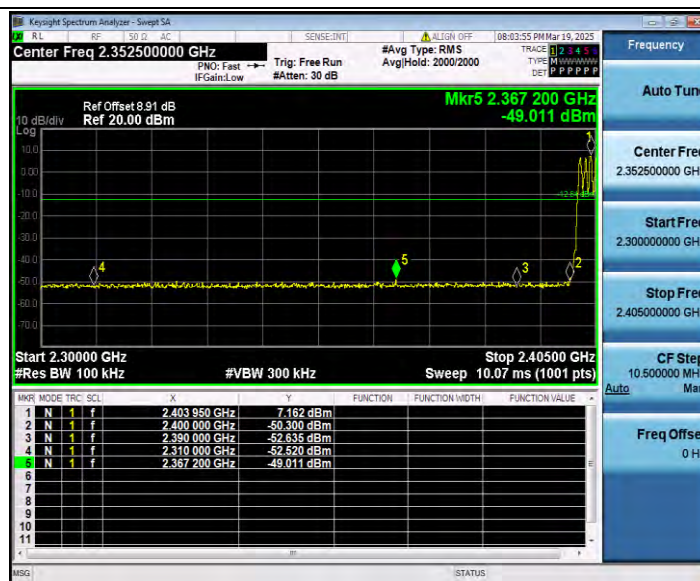
### Test Result

| TestMode | Antenna | ChName | Freq(MHz) | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|----------|---------|--------|-----------|----------------|--------------|---------------|---------|
| DH1      | Ant1    | Low    | 2402      | 7.66           | -46.02       | $\leq -12.34$ | PASS    |
|          |         | High   | 2480      | 8.29           | -48.56       | $\leq -11.71$ | PASS    |
|          |         | Low    | Hop_2402  | 7.16           | -49.01       | $\leq -12.84$ | PASS    |
|          |         | High   | Hop_2480  | 8.35           | -48.88       | $\leq -11.65$ | PASS    |
| 2DH1     | Ant1    | Low    | 2402      | 4.36           | -48.73       | $\leq -15.64$ | PASS    |
|          |         | High   | 2480      | 4.92           | -48.74       | $\leq -15.08$ | PASS    |
|          |         | Low    | Hop_2402  | 4.19           | -49.53       | $\leq -15.81$ | PASS    |
|          |         | High   | Hop_2480  | 5.20           | -48.58       | $\leq -14.8$  | PASS    |
| 3DH1     | Ant1    | Low    | 2402      | 4.40           | -47.65       | $\leq -15.61$ | PASS    |
|          |         | High   | 2480      | 5.01           | -49.04       | $\leq -14.99$ | PASS    |
|          |         | Low    | Hop_2402  | 4.33           | -49.51       | $\leq -15.67$ | PASS    |
|          |         | High   | Hop_2480  | 8.59           | -49.24       | $\leq -11.41$ | PASS    |

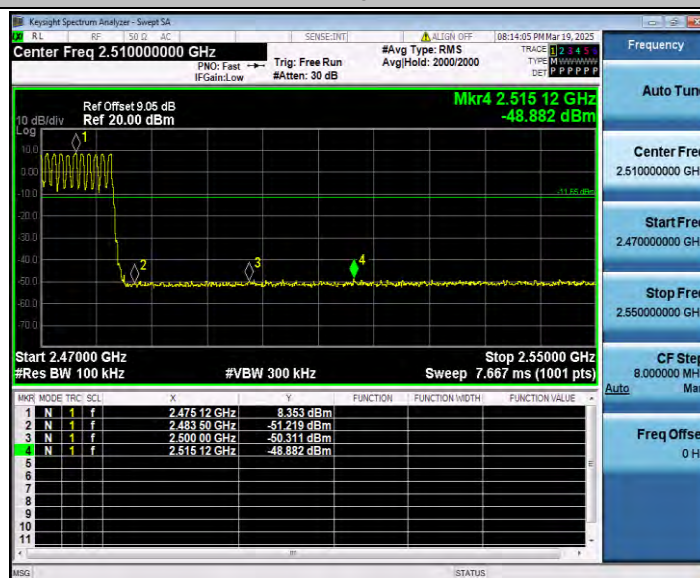
## Test Graphs



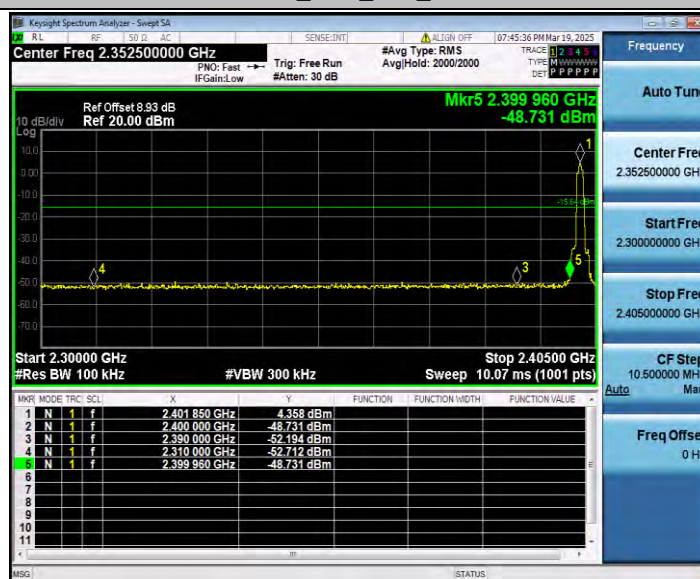
DH1\_Ant1\_Low\_Hop\_2402



DH1\_Ant1\_High\_Hop\_2480

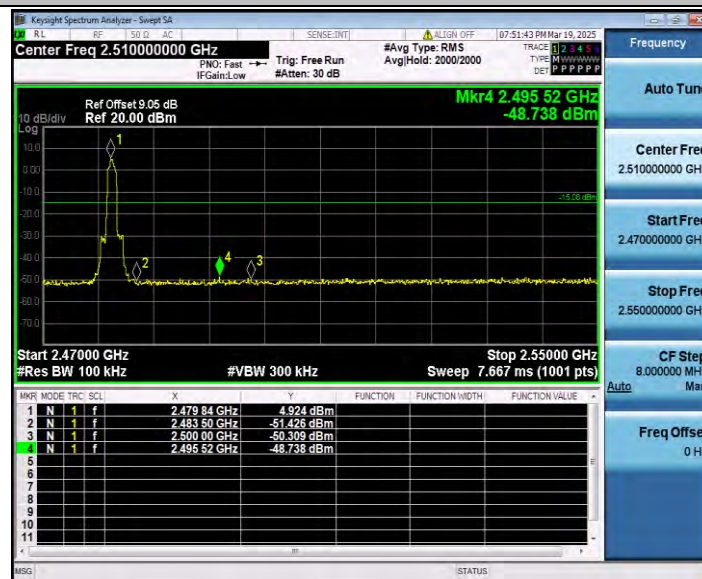


2DH1\_Ant1\_Low\_2402

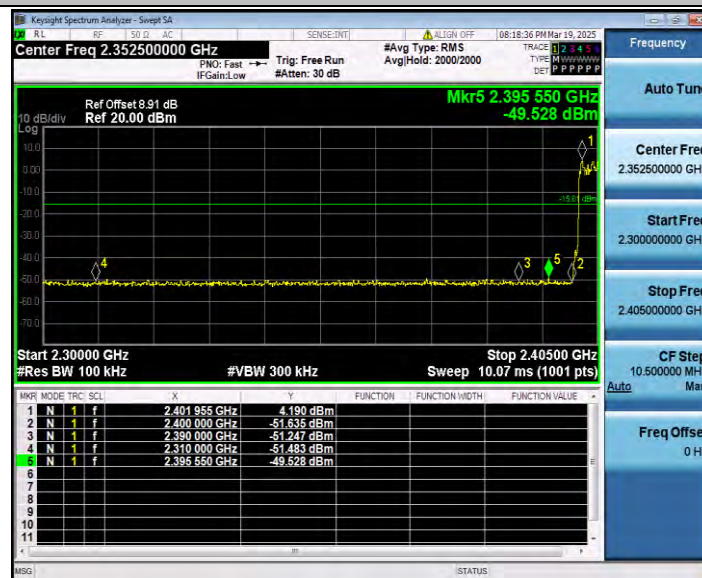




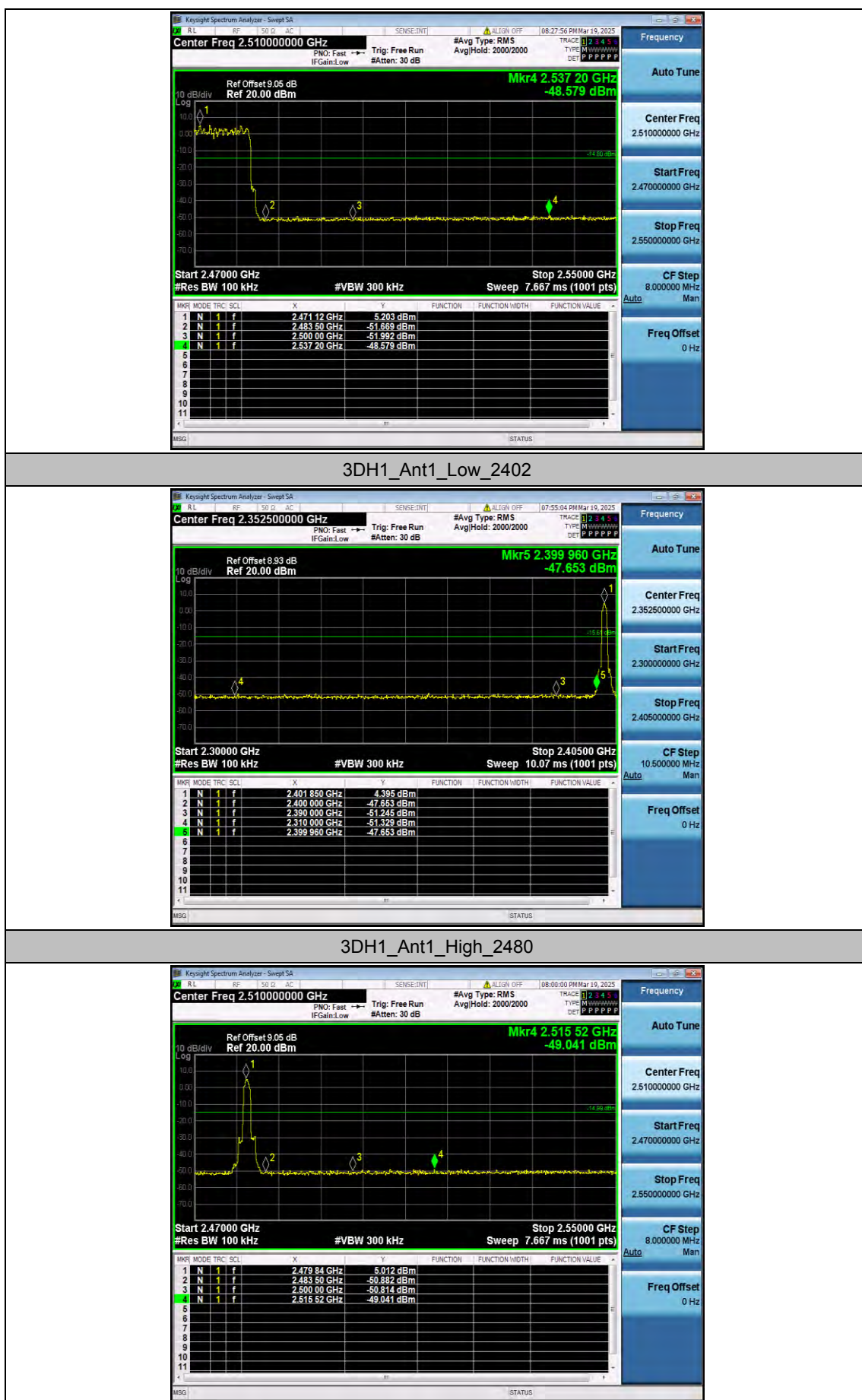
## 2DH1\_Ant1\_High\_2480



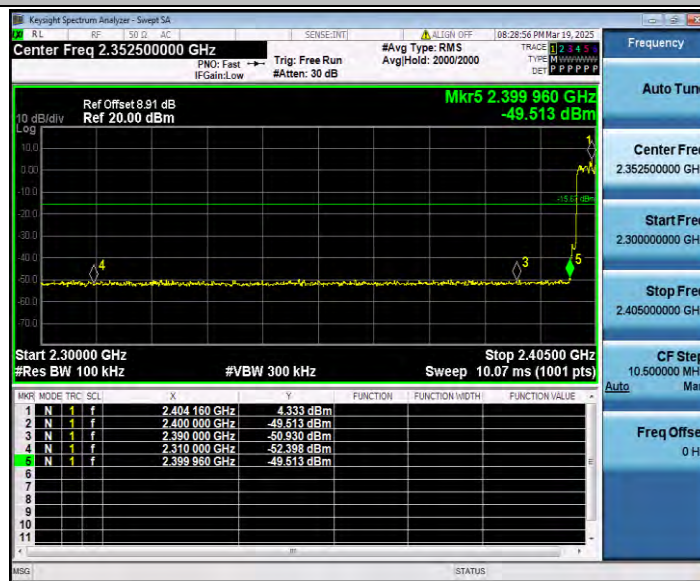
## 2DH1\_Ant1\_Low\_Hop\_2402



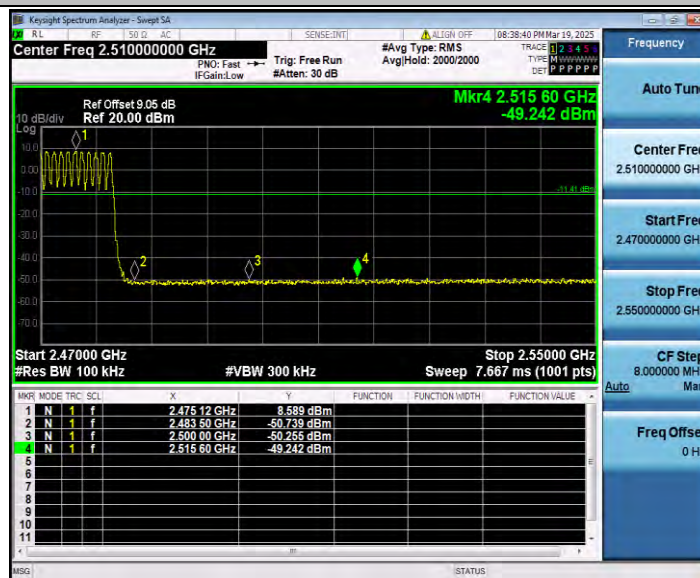
## 2DH1\_Ant1\_High\_Hop\_2480



## 3DH1\_Ant1\_Low\_Hop\_2402



## 3DH1\_Ant1\_High\_Hop\_2480

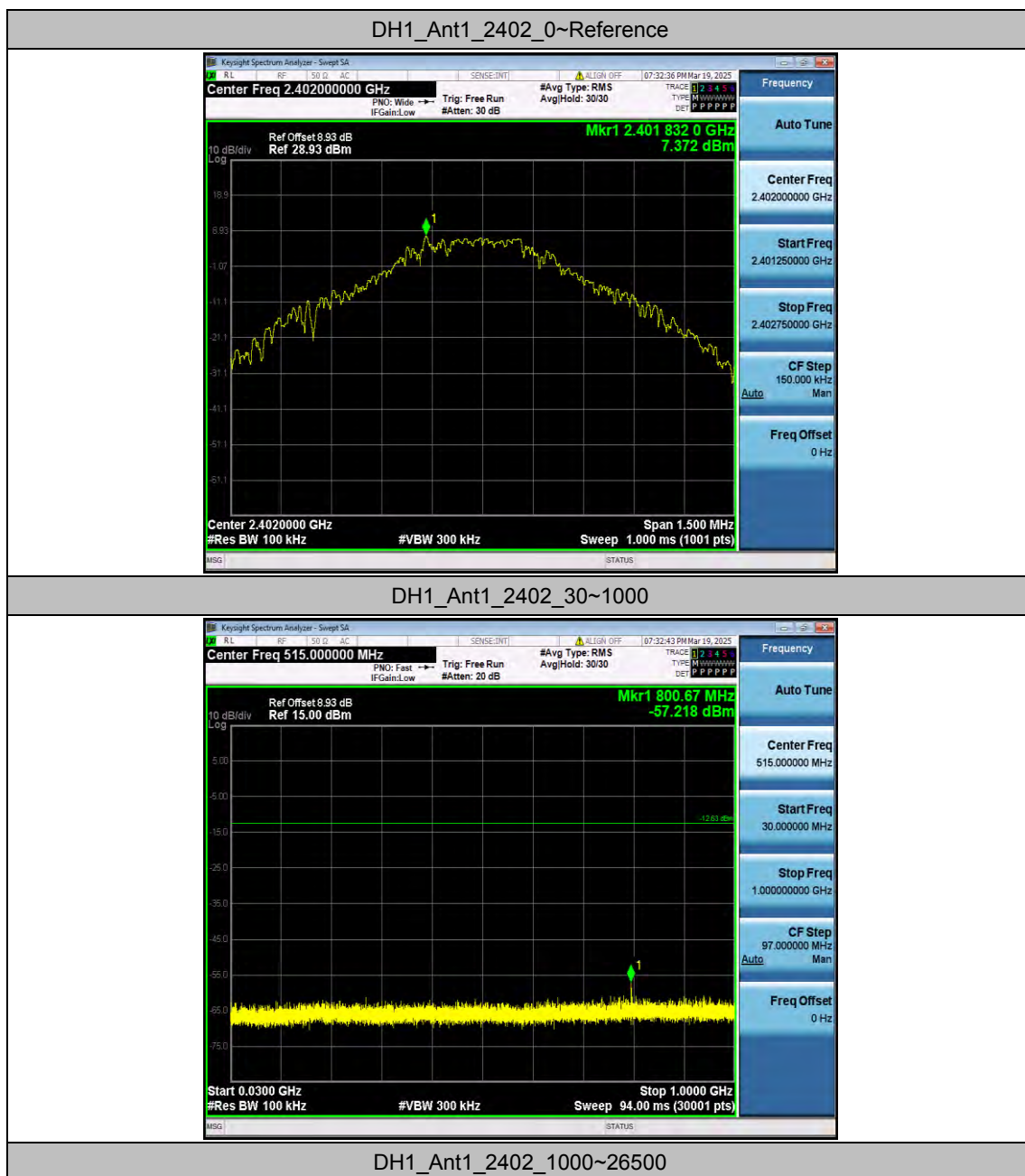


## Appendix A.8: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|--------------|-------------|---------|
| DH1      | Ant1    | 2402      | Reference       | 7.37           | 7.37         | ---         | PASS    |
|          |         |           | 30~1000         | 7.37           | -57.22       | ≤-12.63     | PASS    |
|          |         |           | 1000~26500      | 7.37           | -39.51       | ≤-12.63     | PASS    |
|          |         | 2441      | Reference       | 7.23           | 7.23         | ---         | PASS    |
|          |         |           | 30~1000         | 7.23           | -57.95       | ≤-12.77     | PASS    |
|          |         |           | 1000~26500      | 7.23           | -39.18       | ≤-12.77     | PASS    |
|          |         | 2480      | Reference       | 8.00           | 8.00         | ---         | PASS    |
|          |         |           | 30~1000         | 8.00           | -58.12       | ≤-12        | PASS    |
|          |         |           | 1000~26500      | 8.00           | -35.37       | ≤-12        | PASS    |
| 2DH1     | Ant1    | 2402      | Reference       | 3.09           | 3.09         | ---         | PASS    |
|          |         |           | 30~1000         | 3.09           | -58.85       | ≤-16.91     | PASS    |
|          |         |           | 1000~26500      | 3.09           | -41.3        | ≤-16.91     | PASS    |
|          |         | 2441      | Reference       | 4.54           | 4.54         | ---         | PASS    |
|          |         |           | 30~1000         | 4.54           | -60.07       | ≤-15.46     | PASS    |
|          |         |           | 1000~26500      | 4.54           | -40.68       | ≤-15.46     | PASS    |
|          |         | 2480      | Reference       | 4.61           | 4.61         | ---         | PASS    |
|          |         |           | 30~1000         | 4.61           | -55.44       | ≤-15.39     | PASS    |
|          |         |           | 1000~26500      | 4.61           | -40.01       | ≤-15.39     | PASS    |
| 3DH1     | Ant1    | 2402      | Reference       | 3.91           | 3.91         | ---         | PASS    |
|          |         |           | 30~1000         | 3.91           | -60.28       | ≤-16.09     | PASS    |
|          |         |           | 1000~26500      | 3.91           | -42.16       | ≤-16.09     | PASS    |
|          |         | 2441      | Reference       | 4.59           | 4.59         | ---         | PASS    |
|          |         |           | 30~1000         | 4.59           | -60.59       | ≤-15.41     | PASS    |
|          |         |           | 1000~26500      | 4.59           | -41.19       | ≤-15.41     | PASS    |
|          |         | 2480      | Reference       | 4.91           | 4.91         | ---         | PASS    |
|          |         |           | 30~1000         | 4.91           | -60.45       | ≤-15.09     | PASS    |
|          |         |           | 1000~26500      | 4.91           | -39.93       | ≤-15.09     | PASS    |

## Test Graphs



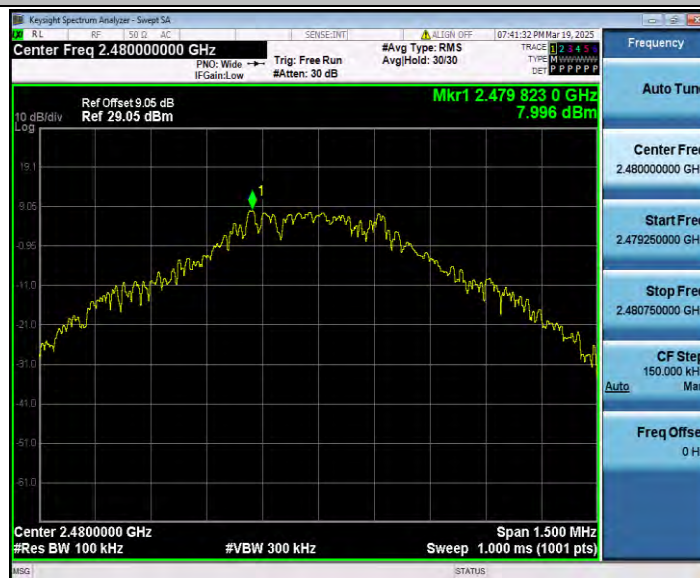




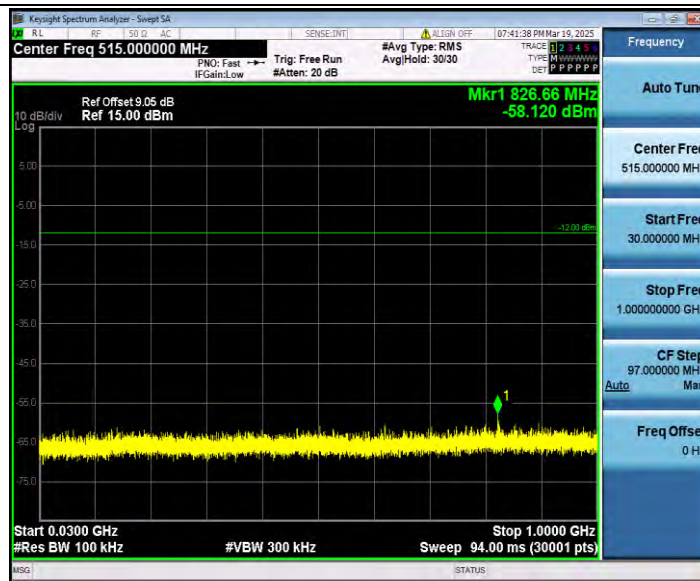
## DH1\_Ant1\_2441\_1000~26500



## DH1\_Ant1\_2480\_0~Reference



## DH1\_Ant1\_2480\_30~1000

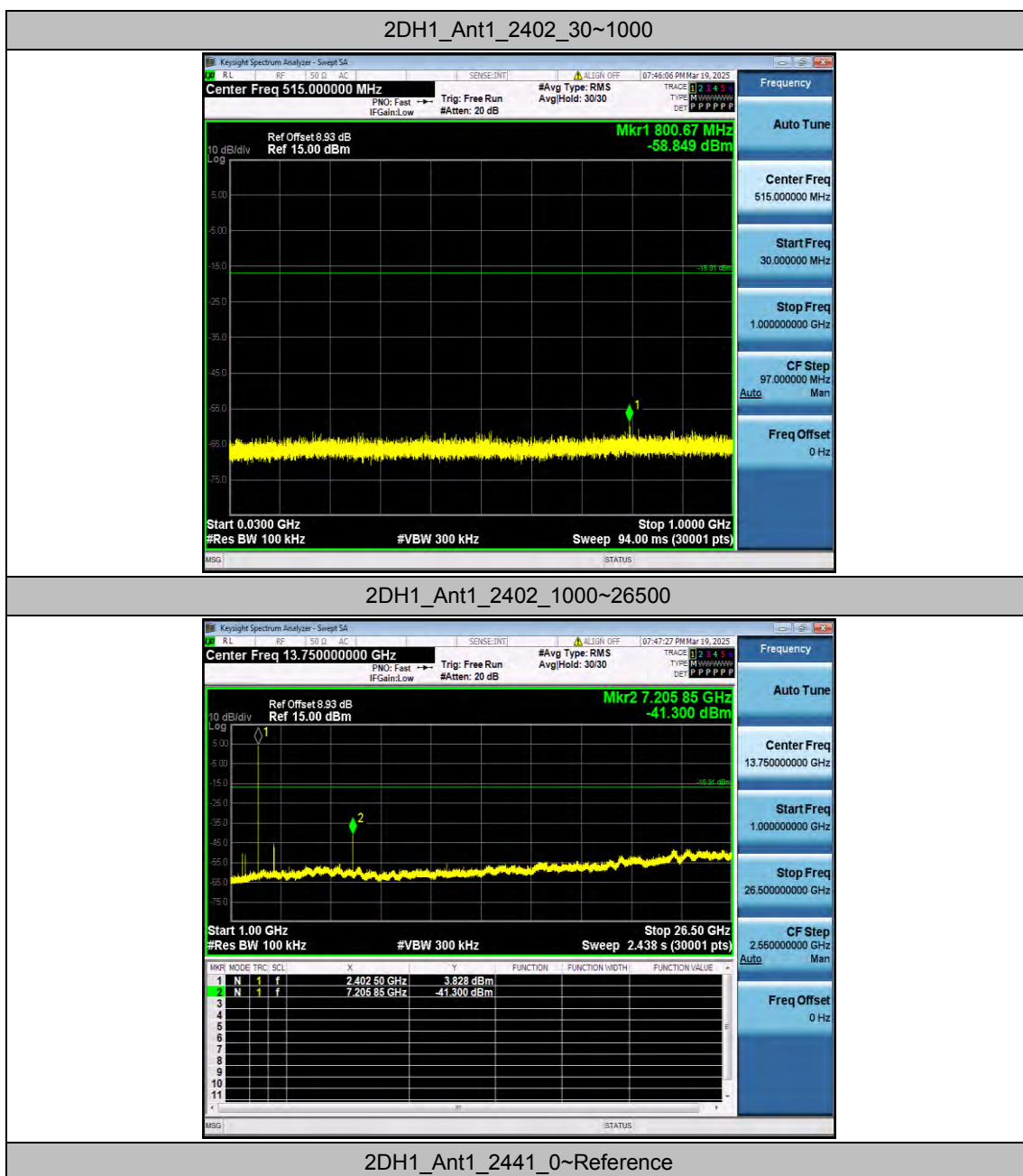


DH1\_Ant1\_2480\_1000~26500

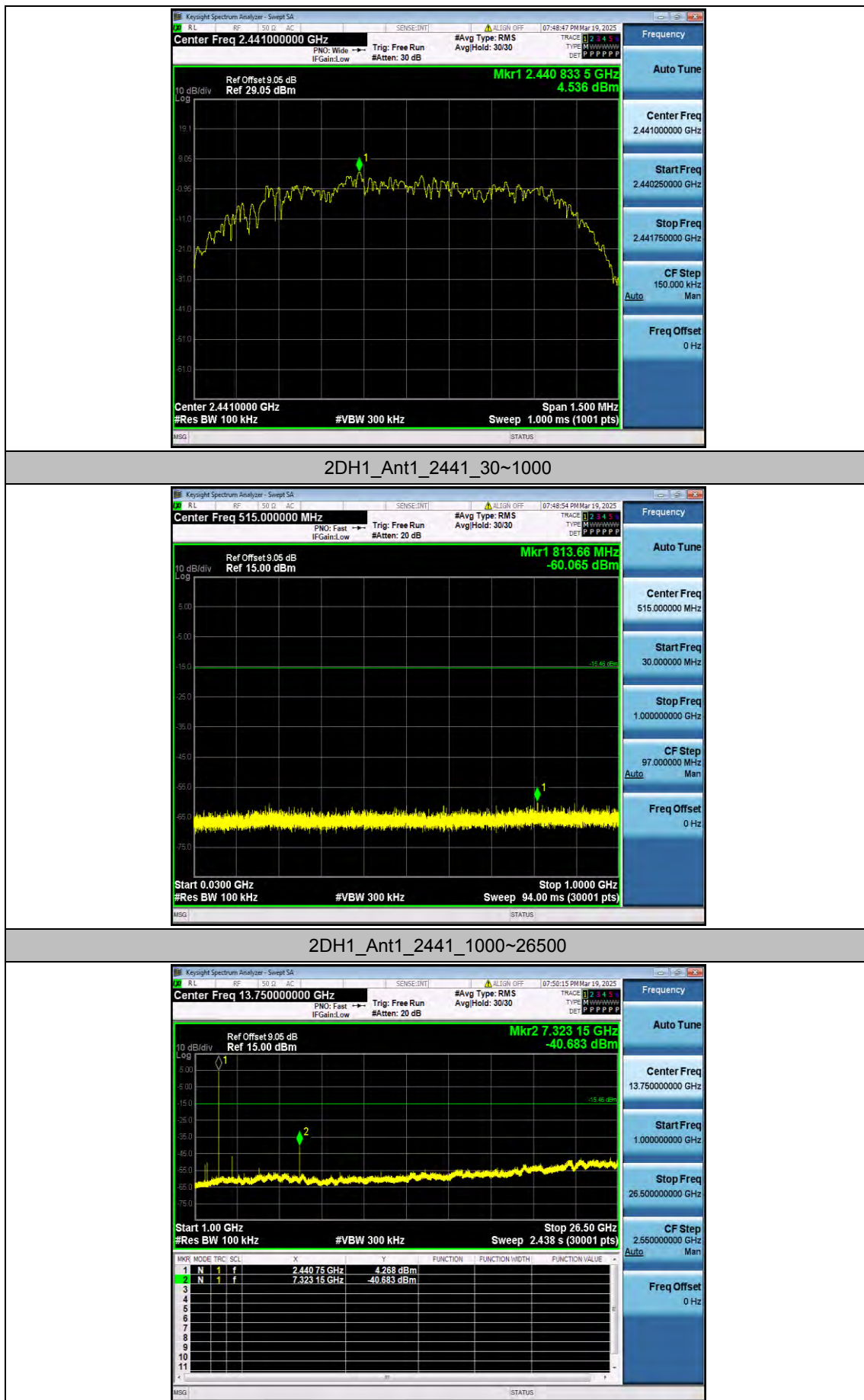


2DH1\_Ant1\_2402\_0~Reference







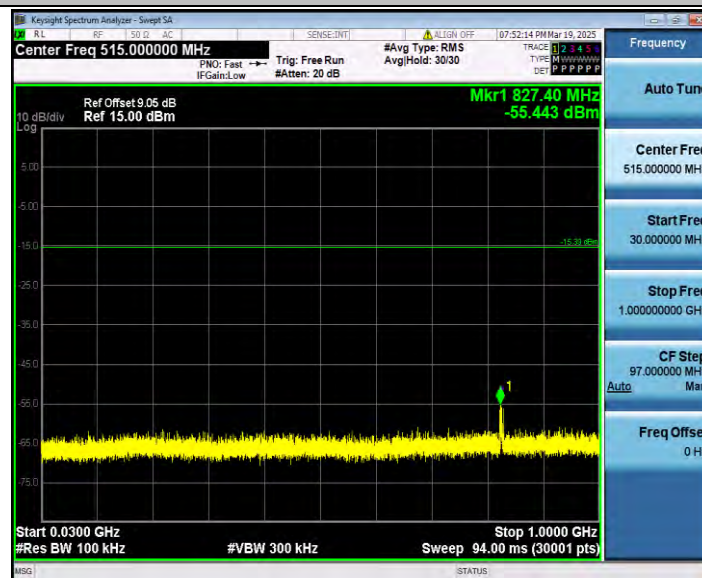




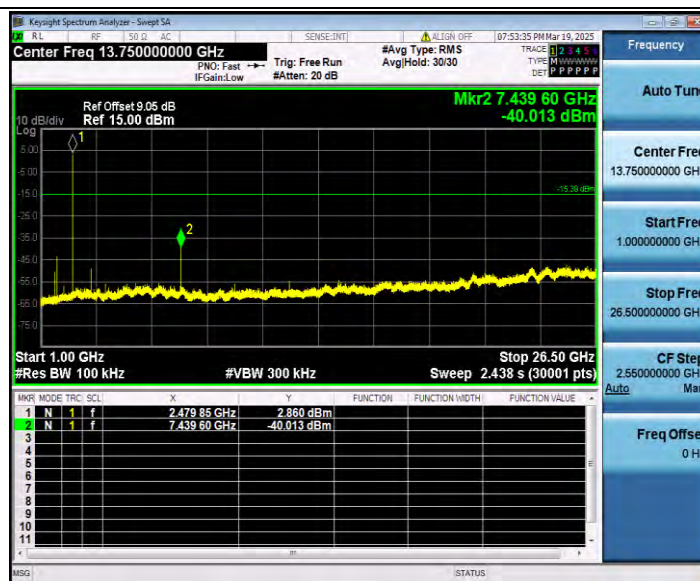
## 2DH1\_Ant1\_2480\_0~Reference



## 2DH1\_Ant1\_2480\_30~1000



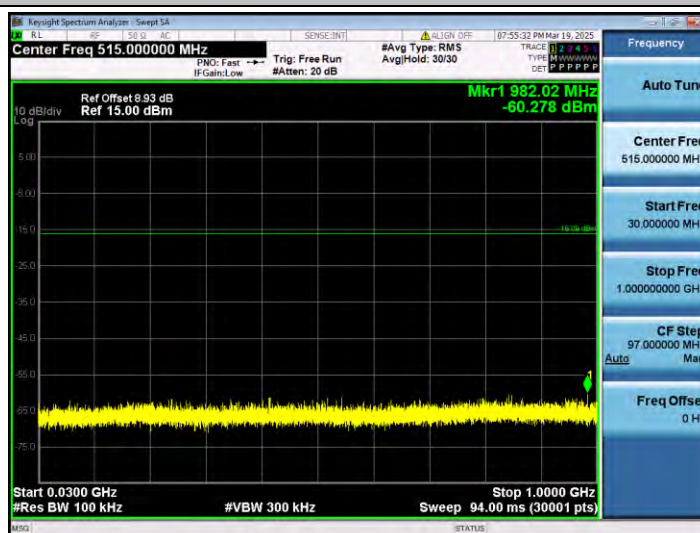
## 2DH1\_Ant1\_2480\_1000~26500



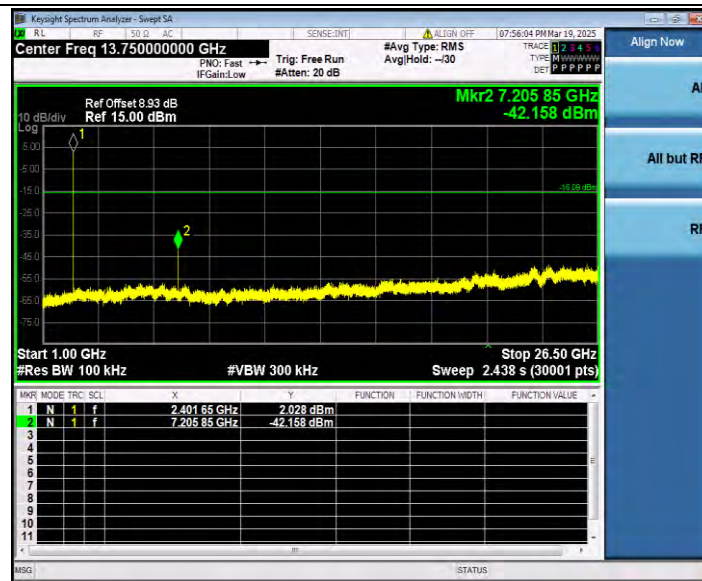
3DH1\_Ant1\_2402\_0~Reference



3DH1\_Ant1\_2402\_30~1000



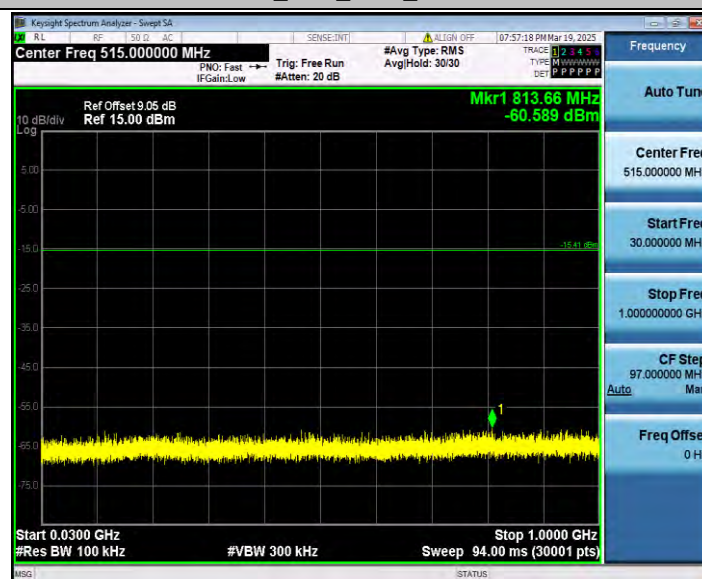
3DH1\_Ant1\_2402\_1000~26500



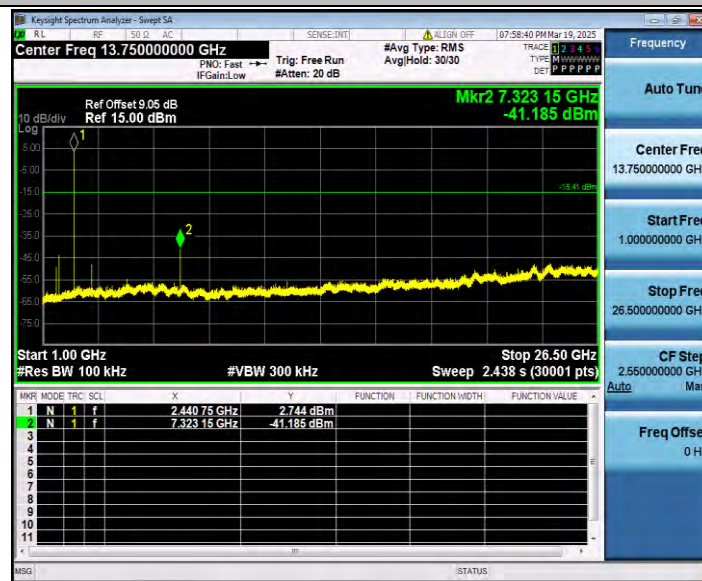
3DH1\_Ant1\_2441\_0~Reference



3DH1\_Ant1\_2441\_30~1000



## 3DH1\_Ant1\_2441\_1000~26500

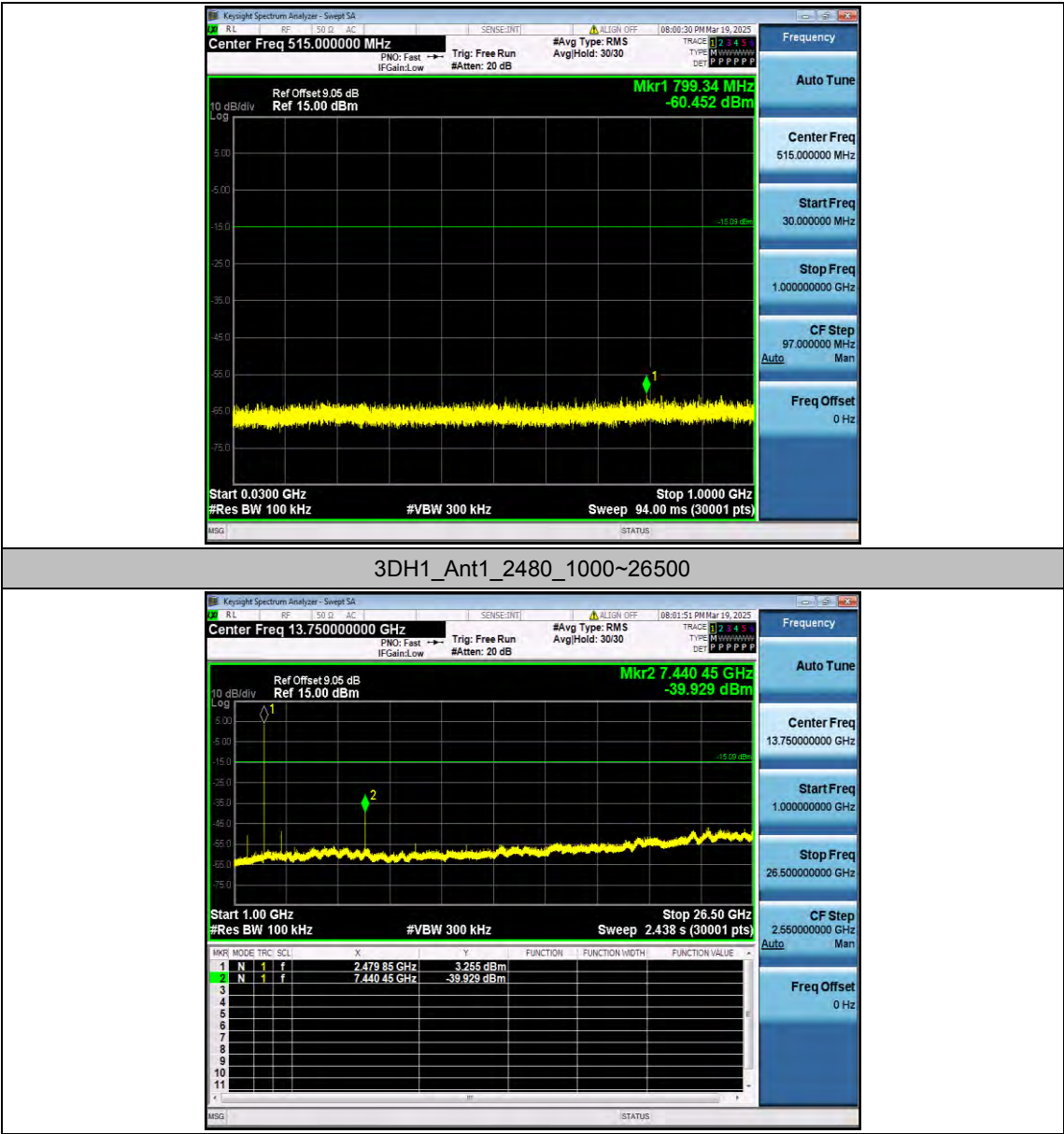


## 3DH1\_Ant1\_2480\_0~Reference



## 3DH1\_Ant1\_2480\_30~1000







## Appendix A.9: Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Freq(MHz ) | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|----------|---------|--------|------------|----------|------------|--------------|-------------|-----------------|----------------|---------|
| DH1      | Ant1    | Low    | 2402       | AV       | 2310.000   | -49.63       | ≤-41.20     | 45.57           | ≤54            | PASS    |
|          |         |        |            | AV       | 2378.120   | -49.17       | ≤-41.20     | 46.03           | ≤54            | PASS    |
|          |         |        |            | AV       | 2390.000   | -49.36       | ≤-41.20     | 45.84           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2310.000   | -42.02       | ≤-21.20     | 53.18           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2336.435   | -39.24       | ≤-21.20     | 55.96           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2390.000   | -41.5        | ≤-21.20     | 53.70           | ≤74            | PASS    |
|          |         | High   | 2480       | AV       | 2483.500   | -48.03       | ≤-41.20     | 47.17           | ≤54            | PASS    |
|          |         |        |            | AV       | 2483.520   | -48.03       | ≤-41.20     | 47.17           | ≤54            | PASS    |
|          |         |        |            | AV       | 2500.000   | -48.73       | ≤-41.20     | 46.47           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2483.500   | -41.02       | ≤-21.20     | 54.18           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2492.880   | -38.97       | ≤-21.20     | 56.23           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2500.000   | -40.47       | ≤-21.20     | 54.73           | ≤74            | PASS    |
| 2DH1     | Ant1    | Low    | 2402       | AV       | 2310.000   | -49.36       | ≤-41.20     | 45.84           | ≤54            | PASS    |
|          |         |        |            | AV       | 2384.000   | -48.97       | ≤-41.20     | 46.23           | ≤54            | PASS    |
|          |         |        |            | AV       | 2390.000   | -49.14       | ≤-41.20     | 46.06           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2310.000   | -41.67       | ≤-21.20     | 53.53           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2366.570   | -38.48       | ≤-21.20     | 56.72           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2390.000   | -39.16       | ≤-21.20     | 56.04           | ≤74            | PASS    |
|          |         | High   | 2480       | AV       | 2483.500   | -48.04       | ≤-41.20     | 47.16           | ≤54            | PASS    |
|          |         |        |            | AV       | 2483.520   | -48.04       | ≤-41.20     | 47.16           | ≤54            | PASS    |
|          |         |        |            | AV       | 2500.000   | -48.69       | ≤-41.20     | 46.51           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2483.500   | -40.36       | ≤-21.20     | 54.84           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2499.440   | -38.57       | ≤-21.20     | 56.63           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2500.000   | -41.21       | ≤-21.20     | 53.99           | ≤74            | PASS    |
| 3DH1     | Ant1    | Low    | 2402       | AV       | 2310.000   | -49.49       | ≤-41.20     | 45.71           | ≤54            | PASS    |
|          |         |        |            | AV       | 2385.050   | -48.96       | ≤-41.20     | 46.24           | ≤54            | PASS    |
|          |         |        |            | AV       | 2390.000   | -49.06       | ≤-41.20     | 46.14           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2310.000   | -41.79       | ≤-21.20     | 53.41           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2355.755   | -37.31       | ≤-21.20     | 57.89           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2390.000   | -41.53       | ≤-21.20     | 53.67           | ≤74            | PASS    |
|          |         | High   | 2480       | AV       | 2483.500   | -48.09       | ≤-41.20     | 47.11           | ≤54            | PASS    |
|          |         |        |            | AV       | 2483.520   | -48.09       | ≤-41.20     | 47.11           | ≤54            | PASS    |
|          |         |        |            | AV       | 2500.000   | -48.79       | ≤-41.20     | 46.41           | ≤54            | PASS    |
|          |         |        |            | Peak     | 2483.500   | -40.2        | ≤-21.20     | 55.00           | ≤74            | PASS    |
|          |         |        |            | Peak     | 2495.840   | -38.73       | ≤-21.20     | 56.47           | ≤74            | PASS    |

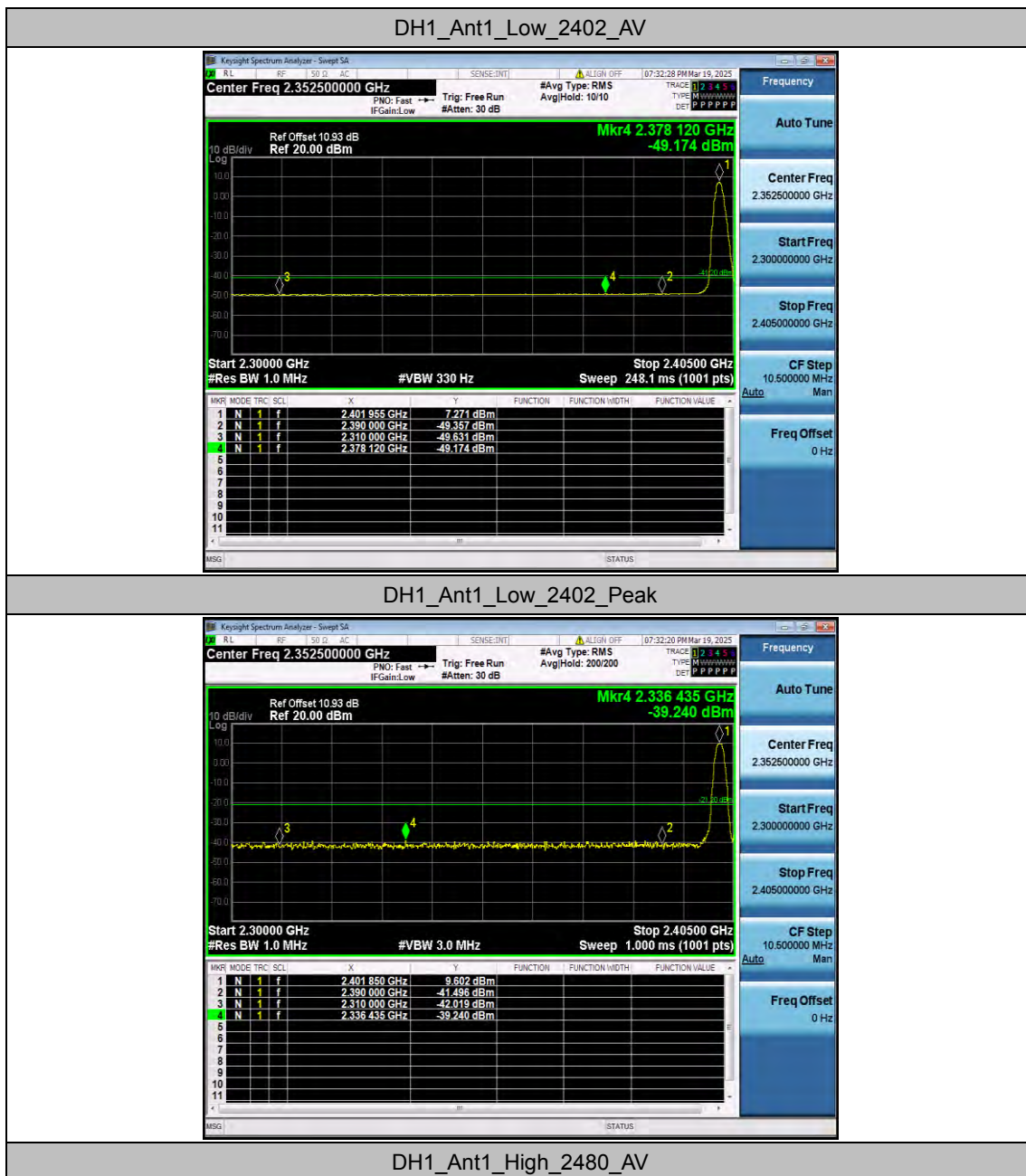
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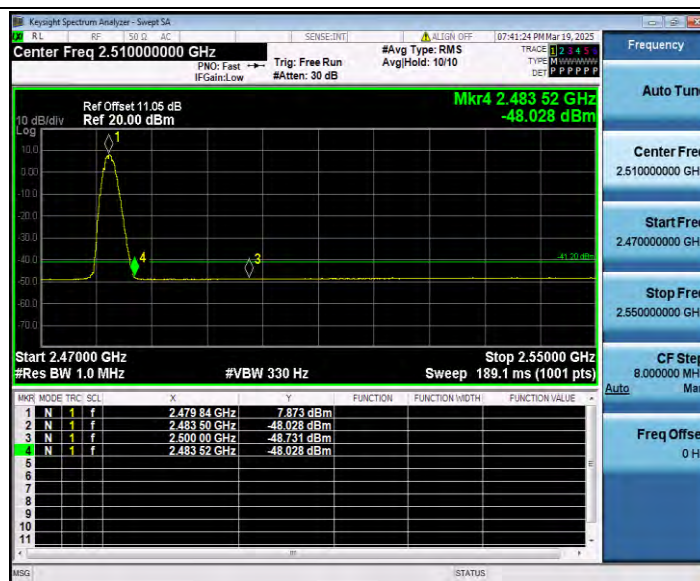
|  |  |  |  |      |          |        |               |       |           |      |
|--|--|--|--|------|----------|--------|---------------|-------|-----------|------|
|  |  |  |  | Peak | 2500.000 | -40.41 | $\leq -21.20$ | 54.79 | $\leq 74$ | PASS |
|--|--|--|--|------|----------|--------|---------------|-------|-----------|------|

## Note:

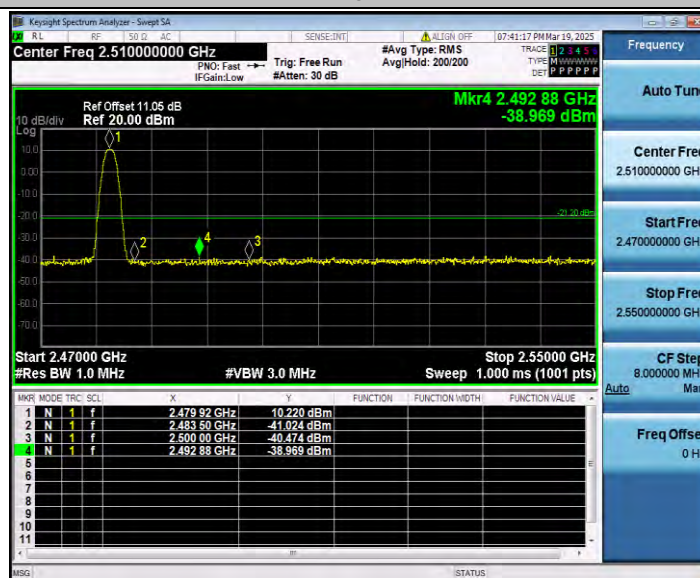
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

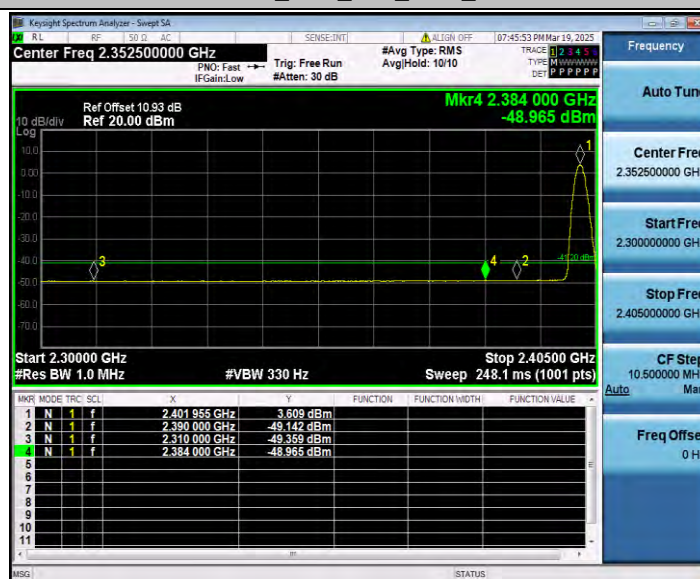




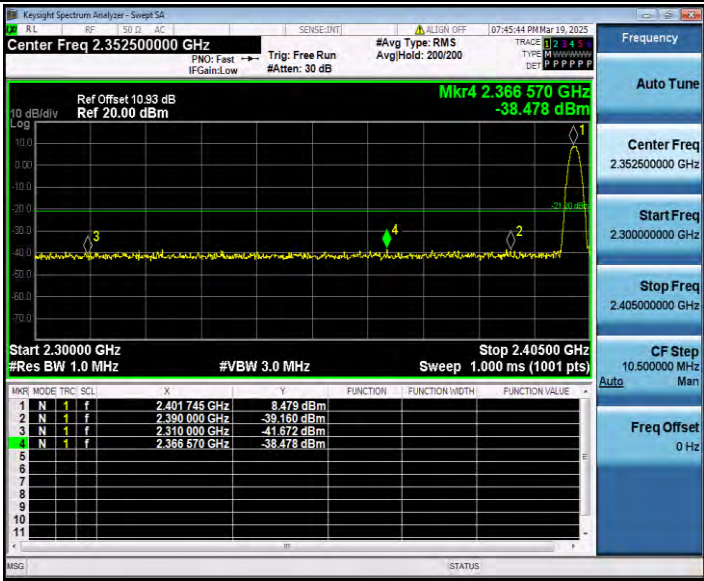
DH1\_Ant1\_High\_2480\_Peak



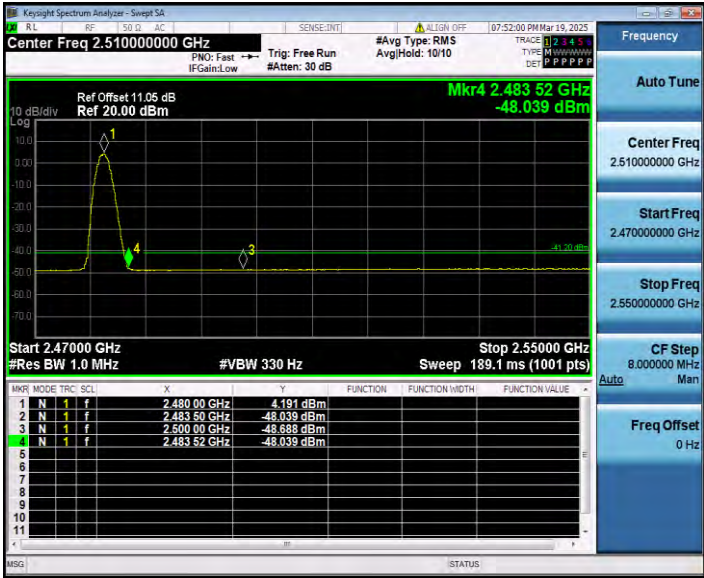
2DH1\_Ant1\_Low\_2402\_AV



2DH1\_Ant1\_Low\_2402\_Peak



2DH1\_Ant1\_High\_2480\_AV



2DH1\_Ant1\_High\_2480\_Peak



