

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC30053101 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2023.04.03      | Finish Test Date:  | 2023.04.06        |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 25.6C°          | Relative Humidity: | 51%               |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.993            | 2401.490 | 2402.483 | ---        | ---     |
|          |         | 2441           | 0.942            | 2440.535 | 2441.477 | ---        | ---     |
|          |         | 2480           | 0.951            | 2479.535 | 2480.486 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.311            | 2401.340 | 2402.651 | ---        | ---     |
|          |         | 2441           | 1.308            | 2440.346 | 2441.654 | ---        | ---     |
|          |         | 2480           | 1.320            | 2479.337 | 2480.657 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.239            | 2401.385 | 2402.624 | ---        | ---     |
|          |         | 2441           | 1.308            | 2440.346 | 2441.654 | ---        | ---     |
|          |         | 2480           | 1.263            | 2479.382 | 2480.645 | ---        | ---     |



## Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441

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3DH5 Ant1 2480



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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.86856   | 2401.5605 | 2402.4290 | ---        | ---     |
|          |         | 2441           | 0.86320   | 2440.5698 | 2441.4330 | ---        | ---     |
|          |         | 2480           | 0.86626   | 2479.5686 | 2480.4349 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.1836    | 2401.4068 | 2402.5904 | ---        | ---     |
|          |         | 2441           | 1.1857    | 2440.4064 | 2441.5921 | ---        | ---     |
|          |         | 2480           | 1.1848    | 2479.4089 | 2480.5937 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.1755    | 2401.4122 | 2402.5877 | ---        | ---     |
|          |         | 2441           | 1.1836    | 2440.4085 | 2441.5921 | ---        | ---     |
|          |         | 2480           | 1.1785    | 2479.4133 | 2480.5918 | ---        | ---     |



## Test Graphs



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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441

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3DH5\_Ant1\_2480



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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402           | 2.36                      | ≤20.97               | PASS    |
|           |         | 2441           | 2.95                      | ≤20.97               | PASS    |
|           |         | 2480           | 3.33                      | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2402           | 3.18                      | ≤20.97               | PASS    |
|           |         | 2441           | 3.77                      | ≤20.97               | PASS    |
|           |         | 2480           | 4.05                      | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2402           | 3.20                      | ≤20.97               | PASS    |
|           |         | 2441           | 3.79                      | ≤20.97               | PASS    |
|           |         | 2480           | 4.14                      | ≤20.97               | PASS    |



## Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

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2DH5\_Ant1\_2480



3DH5\_Ant1\_2402



3DH5\_Ant1\_2441

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## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|----------------|-------------|--------------|---------|
| DH5      | Ant1    | Hop            | 0.97        | $\geq 0.662$ | PASS    |
| 2DH5     | Ant1    | Hop            | 1.01        | $\geq 0.880$ | PASS    |
| 3DH5     | Ant1    | Hop            | 1.05        | $\geq 0.872$ | PASS    |



## Test Graphs



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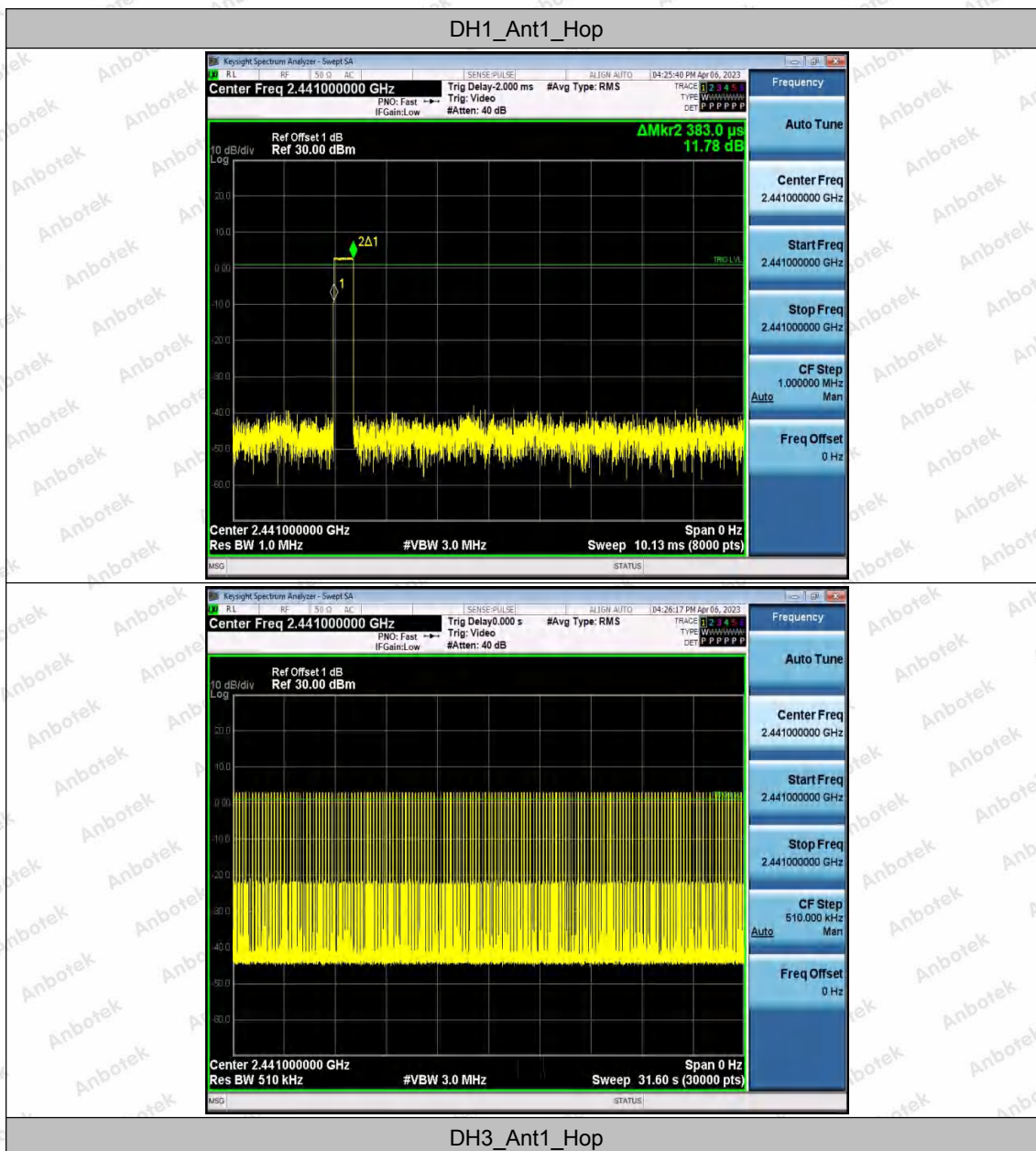
## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop            | 0.383              | 318                | 0.122     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop            | 1.638              | 170                | 0.278     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop            | 2.887              | 116                | 0.335     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop            | 0.391              | 316                | 0.124     | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop            | 1.642              | 153                | 0.251     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop            | 2.892              | 109                | 0.315     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop            | 0.391              | 310                | 0.121     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop            | 1.642              | 152                | 0.249     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop            | 2.892              | 102                | 0.294     | ≤0.4     | PASS    |



## Test Graphs



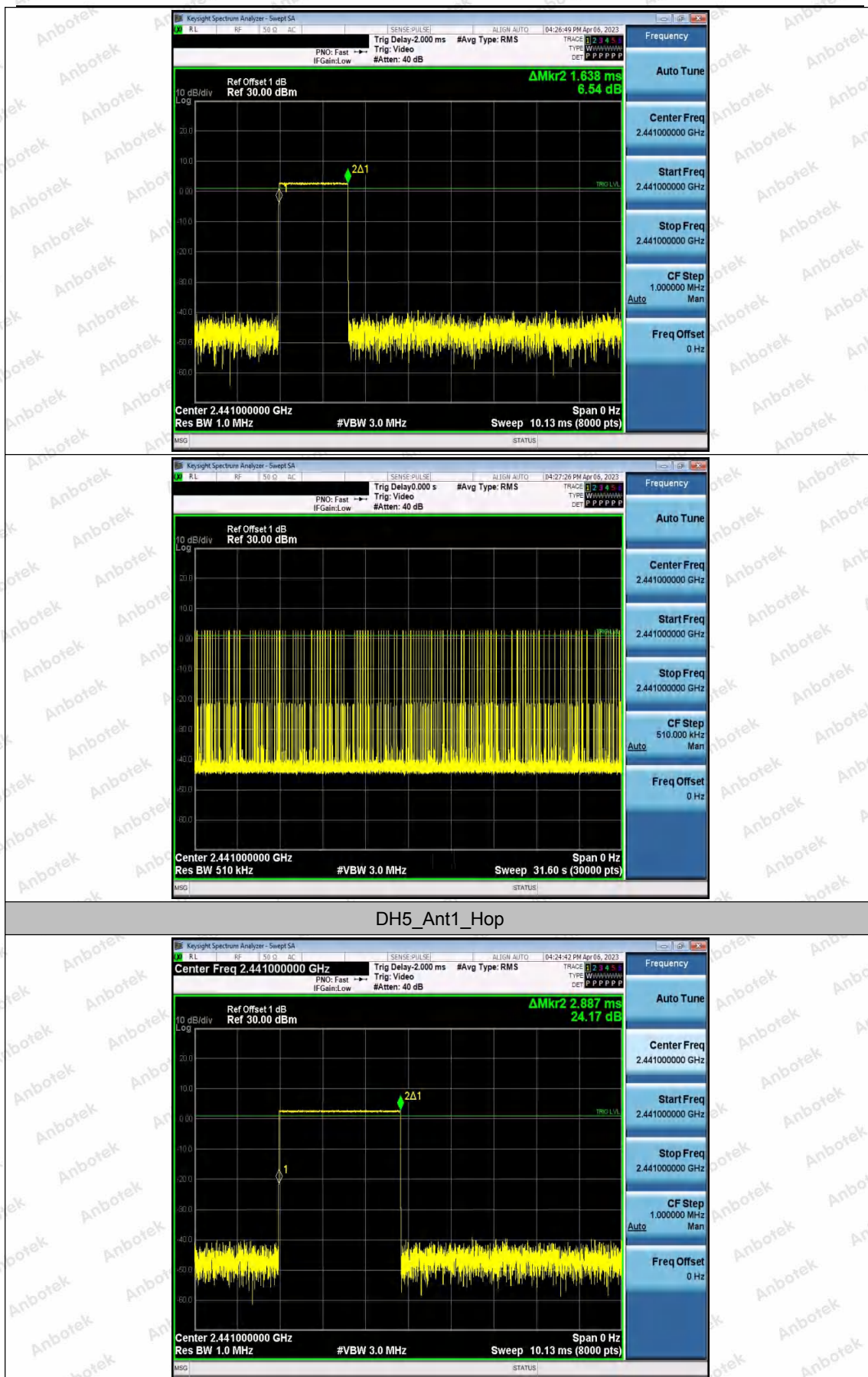
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DH5\_Ant1\_Hop

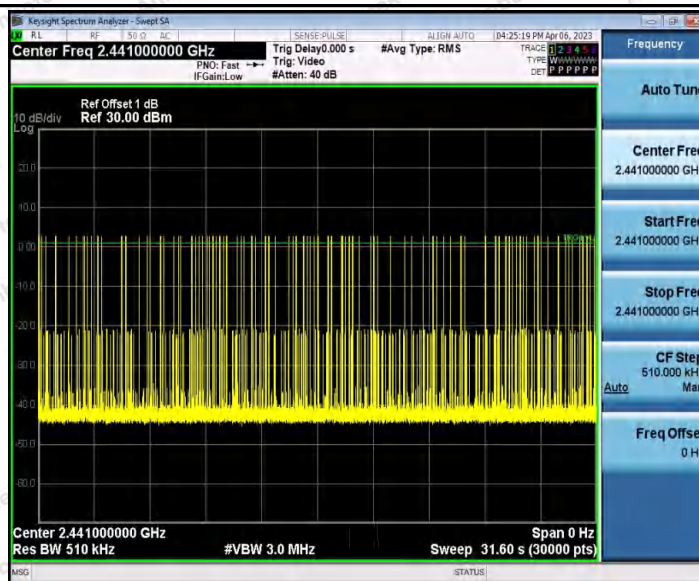
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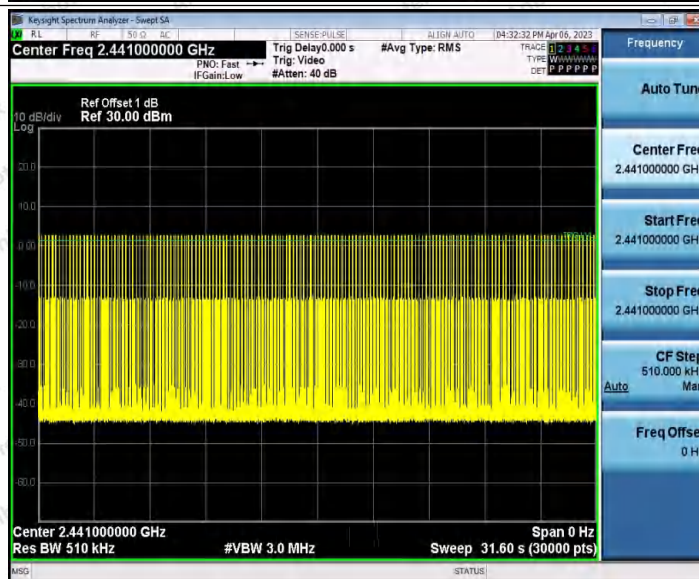
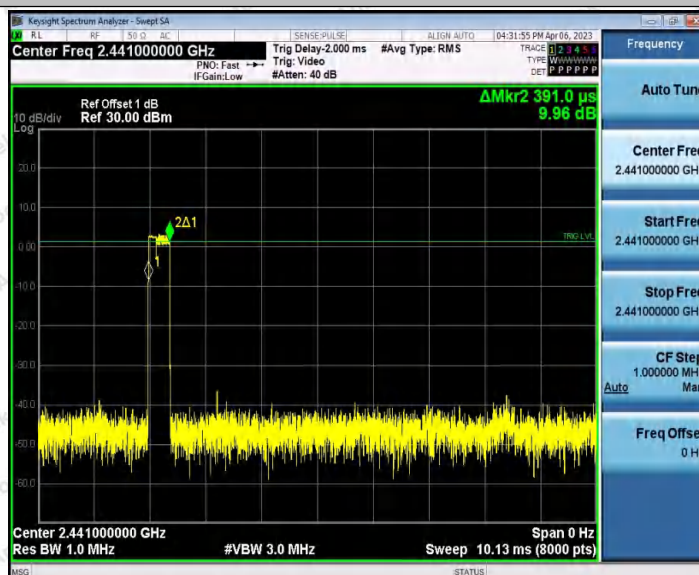


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2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop

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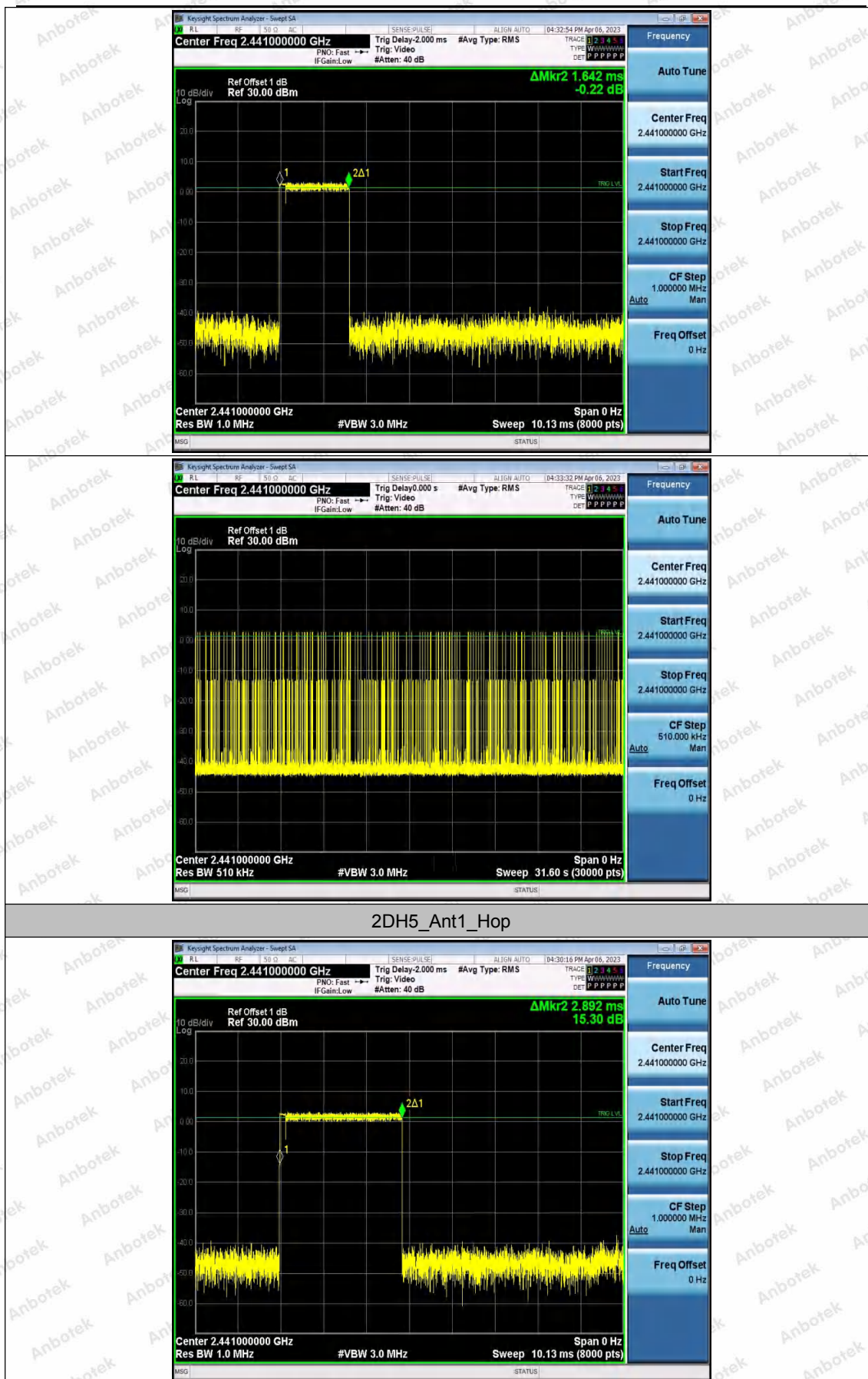


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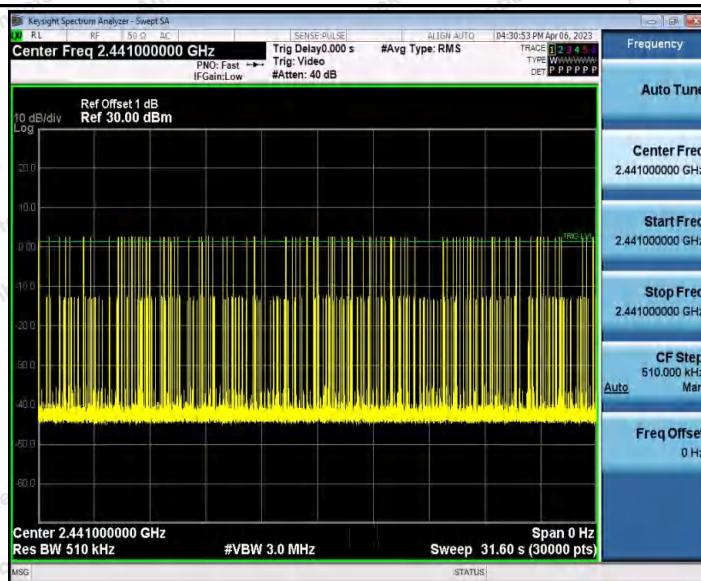
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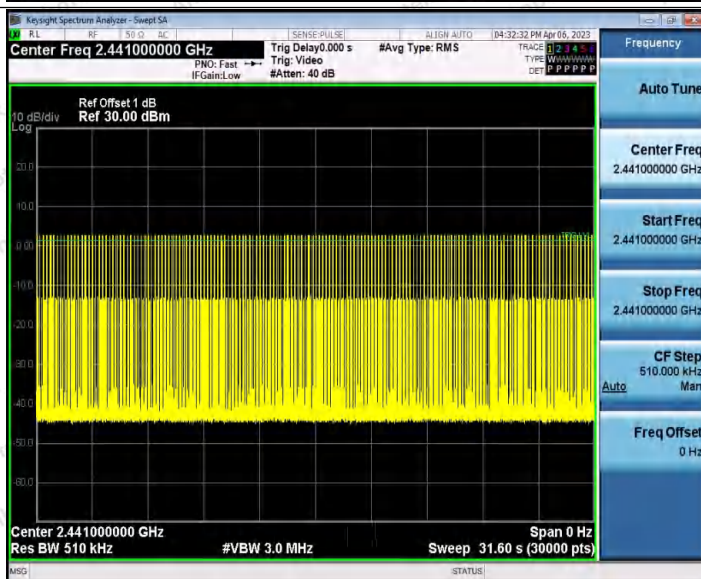
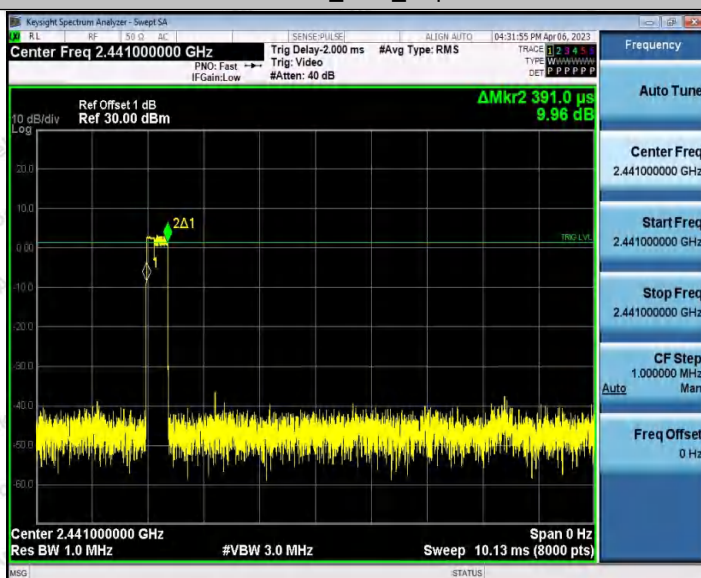


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3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop

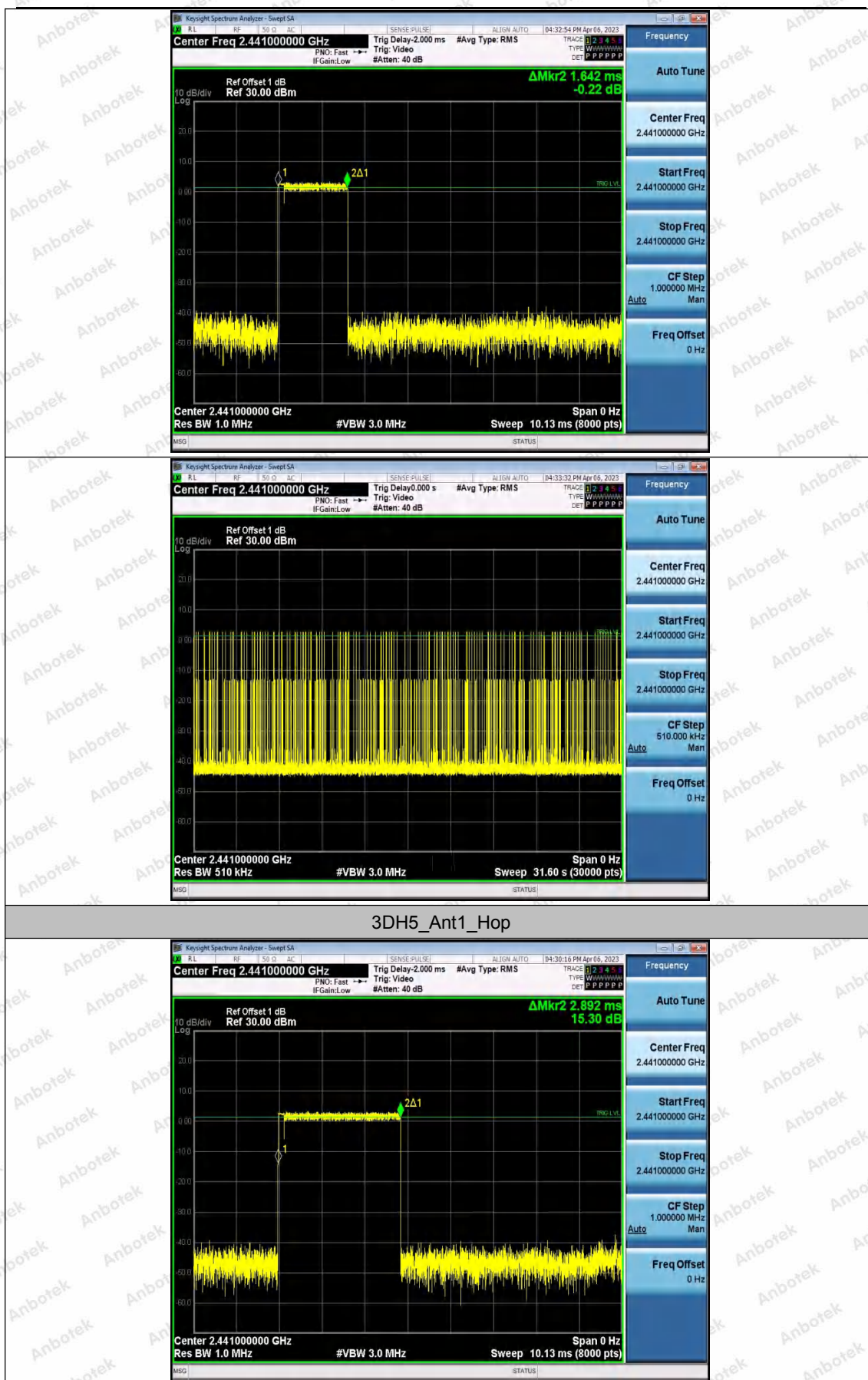
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3DH5\_Ant1\_Hop

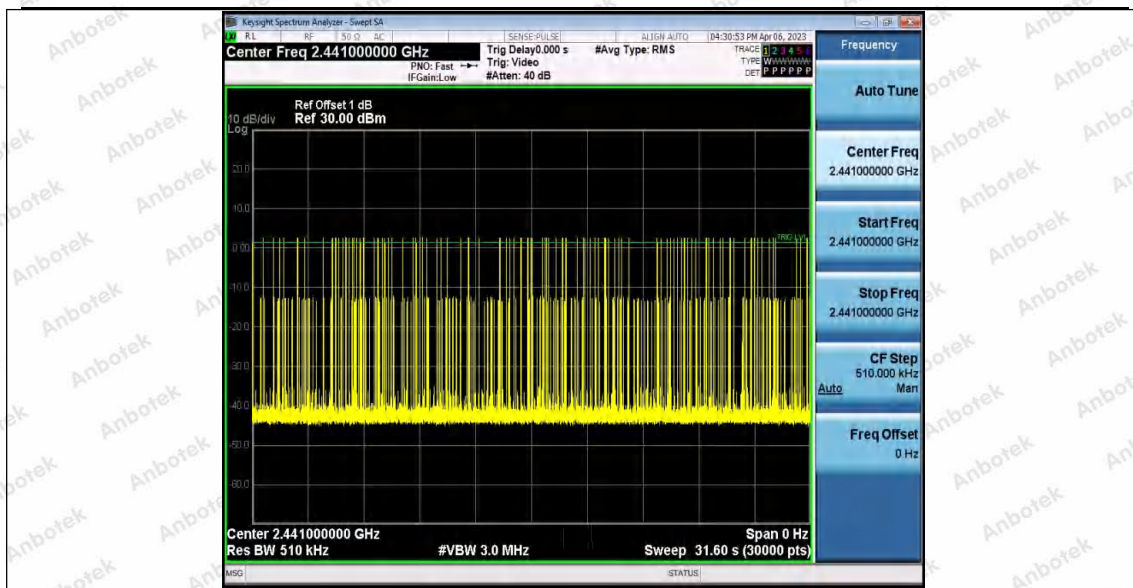
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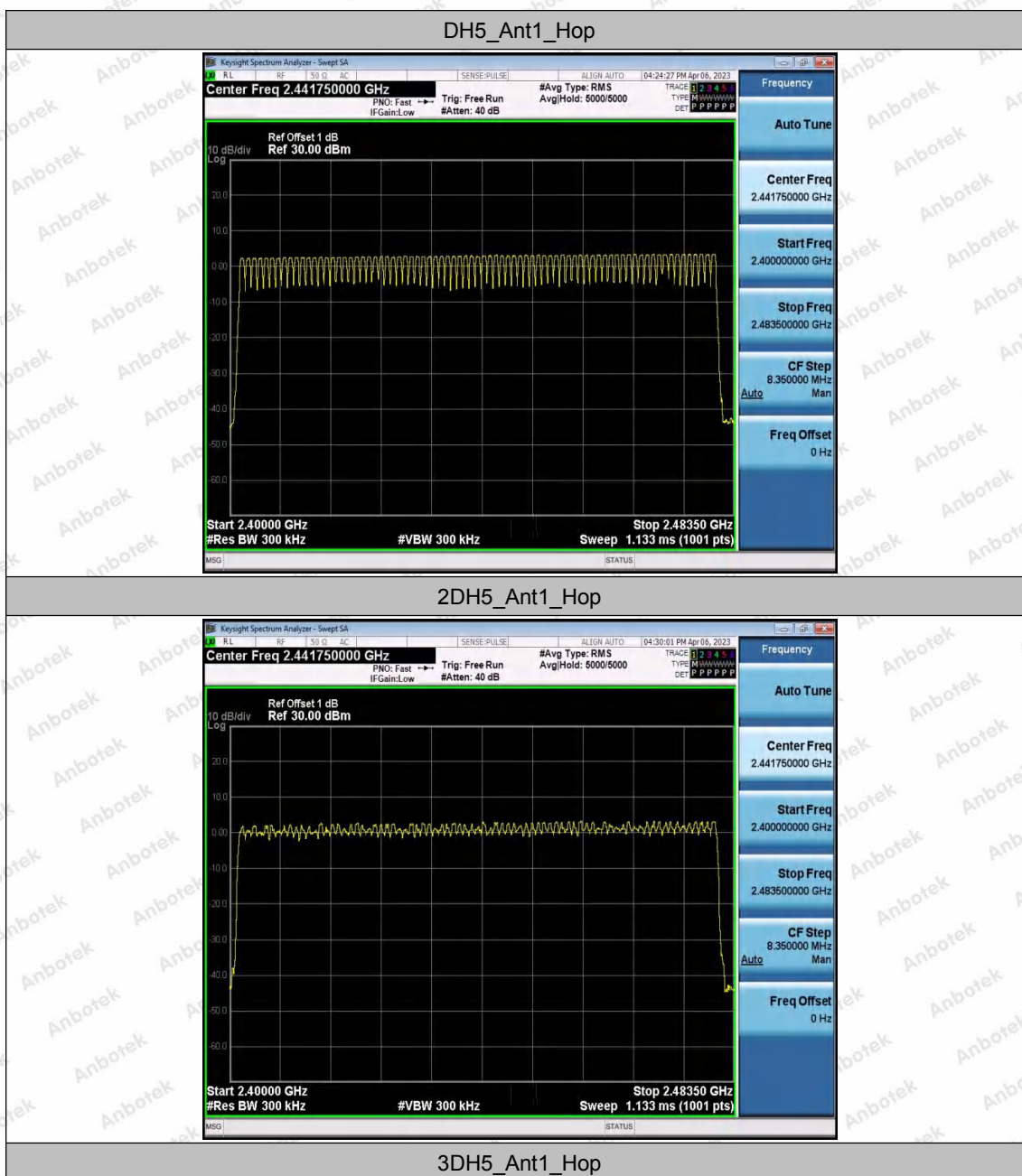
## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Frequency[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



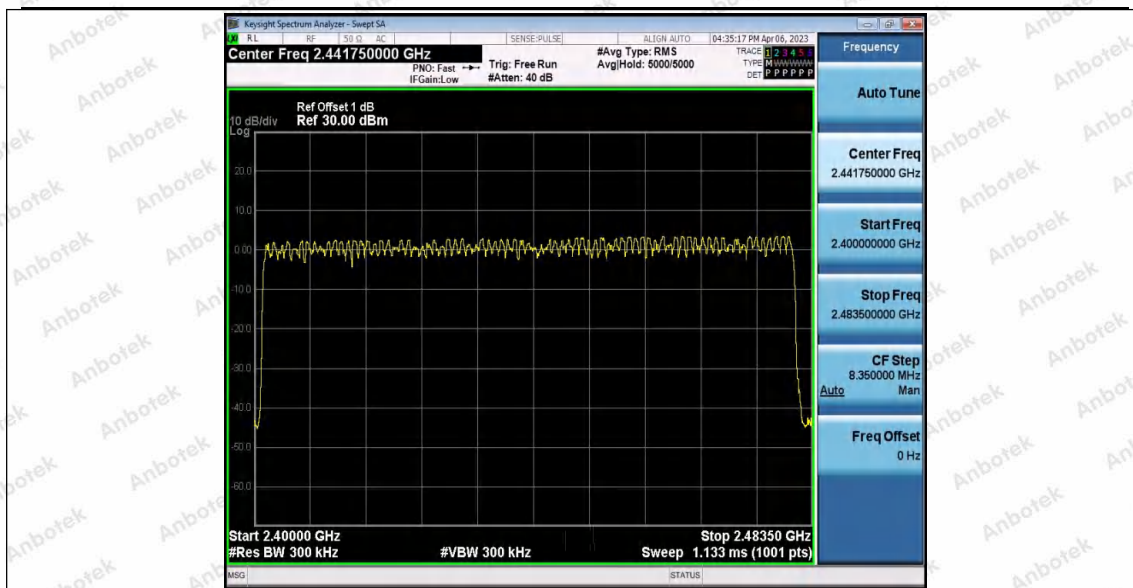
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## Appendix G: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402           | 1.85              | -51.96          | ≤-18.15        | PASS    |
|          |         | High   | 2480           | 2.99              | -51.26          | ≤-17.01        | PASS    |
|          |         | Low    | Hop_2402       | 1.82              | -51.68          | ≤-18.18        | PASS    |
|          |         | High   | Hop_2480       | 3.10              | -52.24          | ≤-16.9         | PASS    |
| 2DH5     | Ant1    | Low    | 2402           | 1.71              | -48.91          | ≤-18.29        | PASS    |
|          |         | High   | 2480           | 2.09              | -50.62          | ≤-17.91        | PASS    |
|          |         | Low    | Hop_2402       | -0.30             | -52.43          | ≤-20.3         | PASS    |
|          |         | High   | Hop_2480       | 2.11              | -51.5           | ≤-17.89        | PASS    |
| 3DH5     | Ant1    | Low    | 2402           | 1.95              | -49.01          | ≤-18.05        | PASS    |
|          |         | High   | 2480           | 3.38              | -51.01          | ≤-16.62        | PASS    |
|          |         | Low    | Hop_2402       | 1.59              | -52.81          | ≤-18.41        | PASS    |
|          |         | High   | Hop_2480       | 3.23              | -53.05          | ≤-16.77        | PASS    |

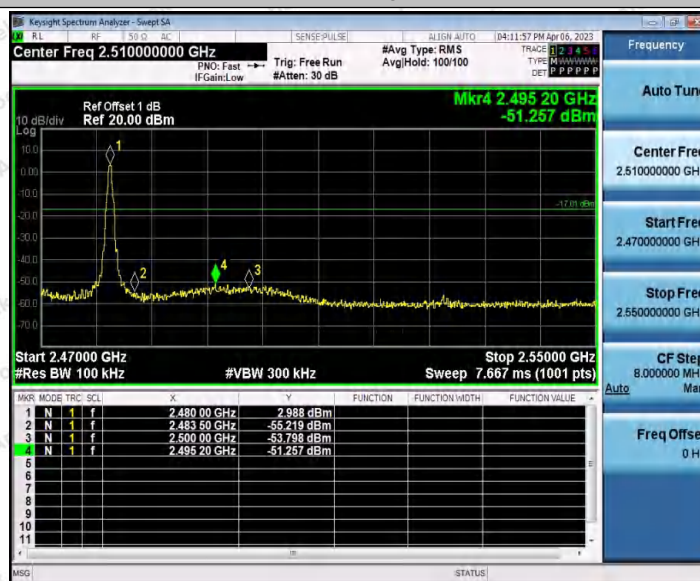


## Test Graphs

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



DH5\_Ant1\_Low\_Hop\_2402

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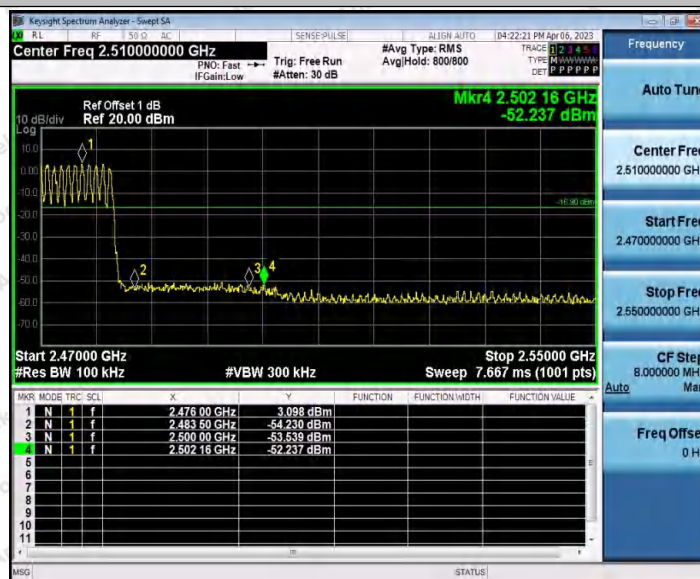


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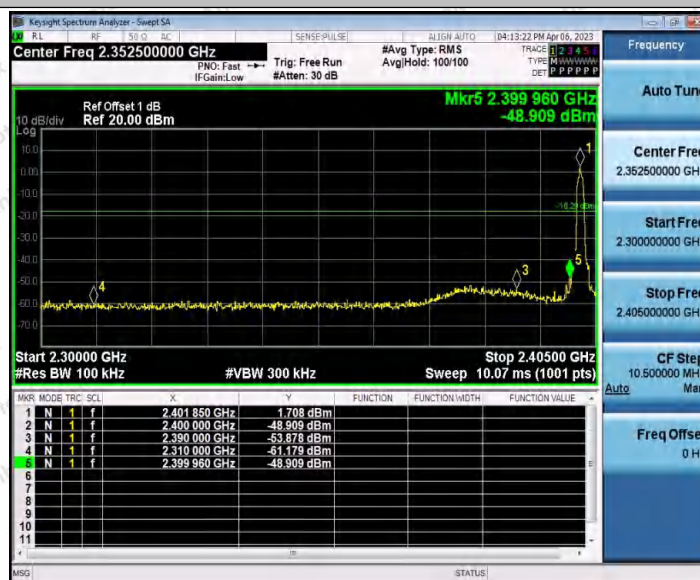




DH5\_Ant1\_High\_Hop\_2480



2DH5\_Ant1\_Low\_2402



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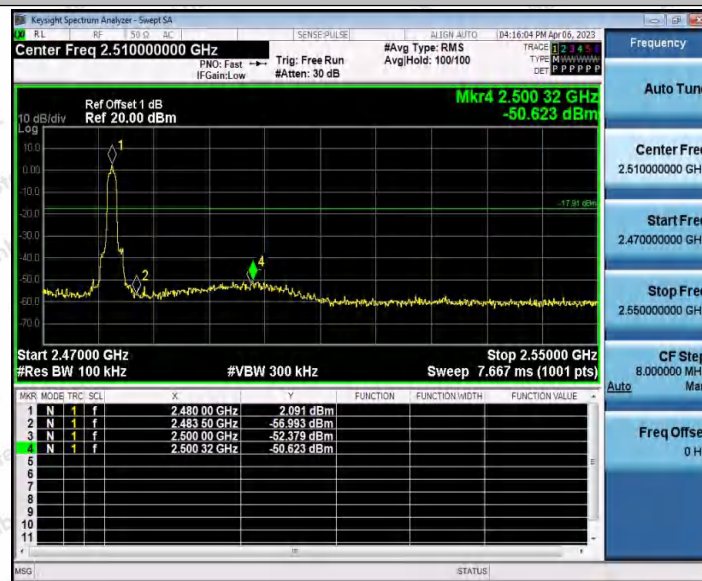
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## 2DH5\_Ant1\_High\_2480



## 2DH5\_Ant1\_Low\_Hop\_2402



## 2DH5\_Ant1\_High\_Hop\_2480

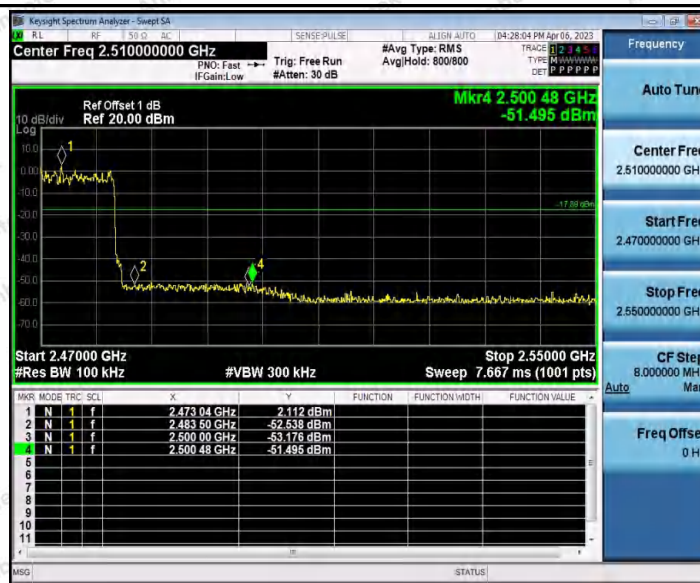
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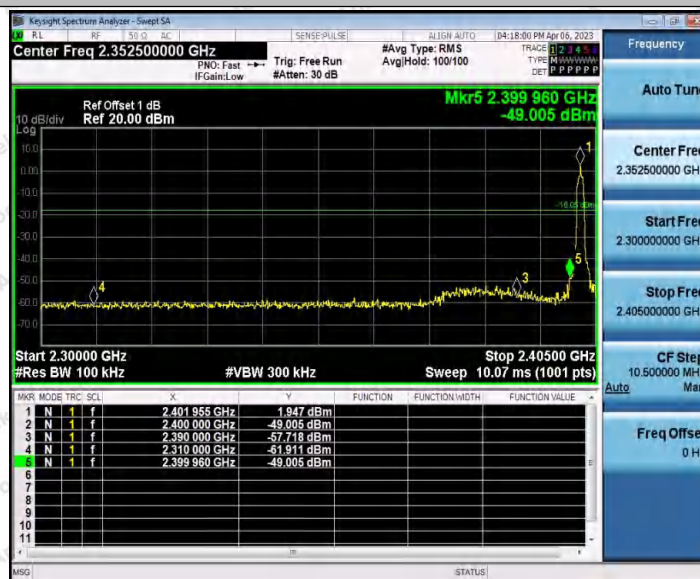


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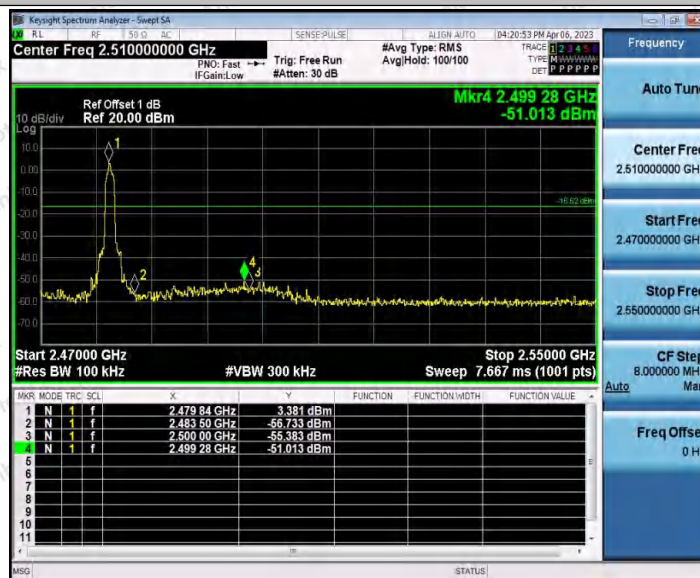




3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480



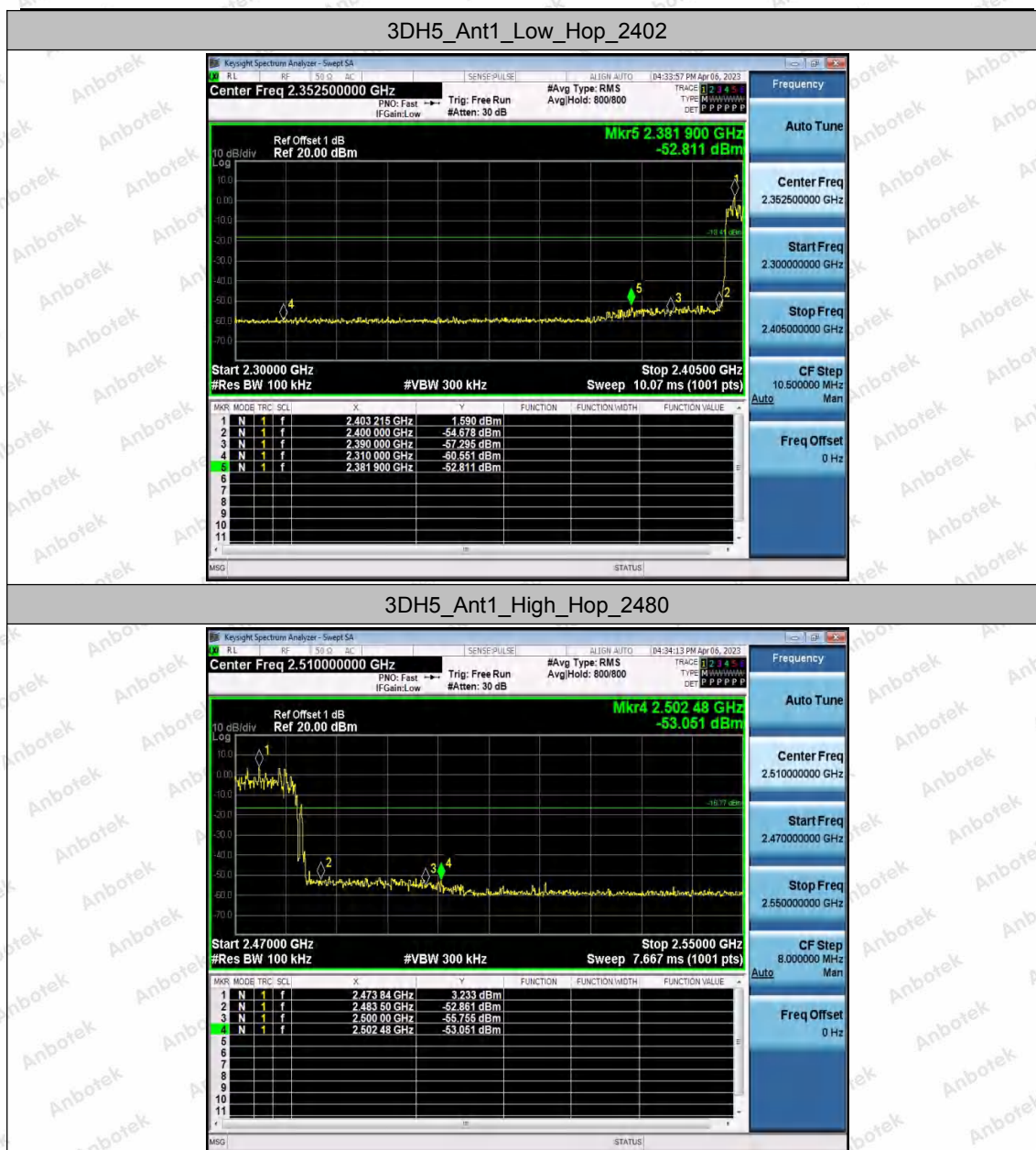
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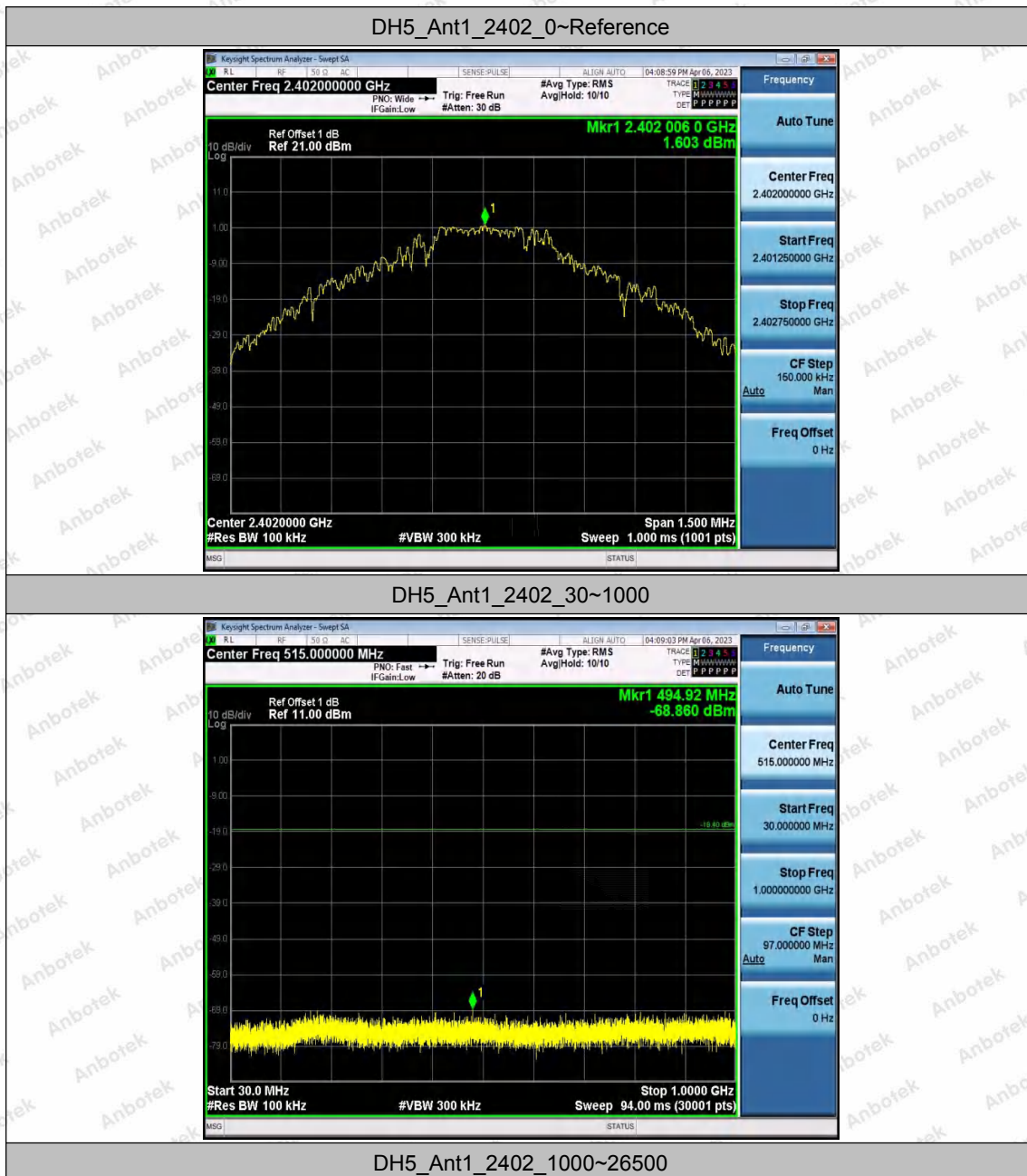
## Appendix H: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402           | Reference       | 1.60           | 1.60         | ---         | PASS    |
|          |         |                | 30~1000         | 1.60           | -68.86       | ≤-18.4      | PASS    |
|          |         |                | 1000~26500      | 1.60           | -45.31       | ≤-18.4      | PASS    |
|          |         | 2441           | Reference       | 1.90           | 1.90         | ---         | PASS    |
|          |         |                | 30~1000         | 1.90           | -68.03       | ≤-18.1      | PASS    |
|          |         |                | 1000~26500      | 1.90           | -50.25       | ≤-18.1      | PASS    |
|          |         | 2480           | Reference       | 2.39           | 2.39         | ---         | PASS    |
|          |         |                | 30~1000         | 2.39           | -67.96       | ≤-17.61     | PASS    |
|          |         |                | 1000~26500      | 2.39           | -38.89       | ≤-17.61     | PASS    |
| 2DH5     | Ant1    | 2402           | Reference       | 1.58           | 1.58         | ---         | PASS    |
|          |         |                | 30~1000         | 1.58           | -68.57       | ≤-18.42     | PASS    |
|          |         |                | 1000~26500      | 1.58           | -50.03       | ≤-18.42     | PASS    |
|          |         | 2441           | Reference       | 2.56           | 2.56         | ---         | PASS    |
|          |         |                | 30~1000         | 2.56           | -68.9        | ≤-17.44     | PASS    |
|          |         |                | 1000~26500      | 2.56           | -50.13       | ≤-17.44     | PASS    |
|          |         | 2480           | Reference       | -0.64          | -0.64        | ---         | PASS    |
|          |         |                | 30~1000         | -0.64          | -68.26       | ≤-20.64     | PASS    |
|          |         |                | 1000~26500      | -0.64          | -48.42       | ≤-20.64     | PASS    |
| 3DH5     | Ant1    | 2402           | Reference       | 1.87           | 1.87         | ---         | PASS    |
|          |         |                | 30~1000         | 1.87           | -67.88       | ≤-18.13     | PASS    |
|          |         |                | 1000~26500      | 1.87           | -49.74       | ≤-18.13     | PASS    |
|          |         | 2441           | Reference       | 2.25           | 2.25         | ---         | PASS    |
|          |         |                | 30~1000         | 2.25           | -68.64       | ≤-17.75     | PASS    |
|          |         |                | 1000~26500      | 2.25           | -50.58       | ≤-17.75     | PASS    |
|          |         | 2480           | Reference       | 1.97           | 1.97         | ---         | PASS    |
|          |         |                | 30~1000         | 1.97           | -67.94       | ≤-18.03     | PASS    |
|          |         |                | 1000~26500      | 1.97           | -48.72       | ≤-18.03     | PASS    |



## Test Graphs



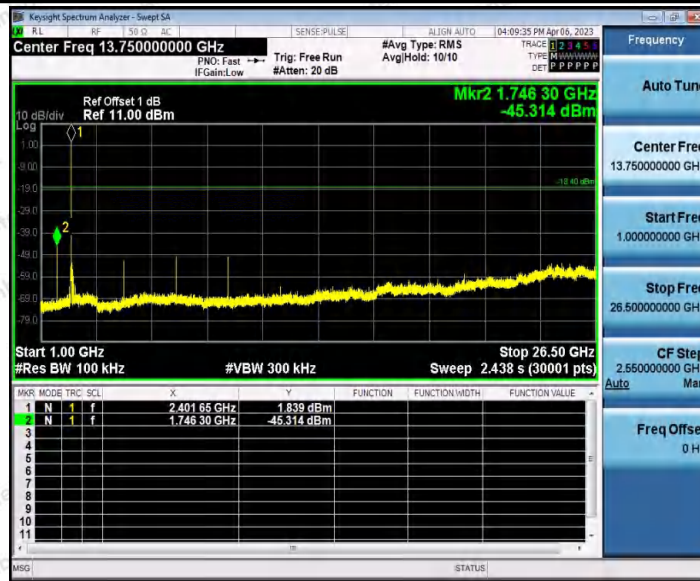
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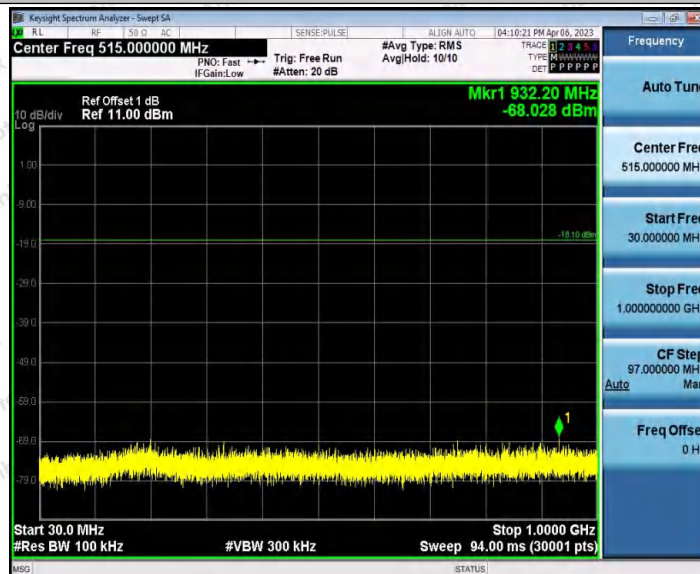




DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



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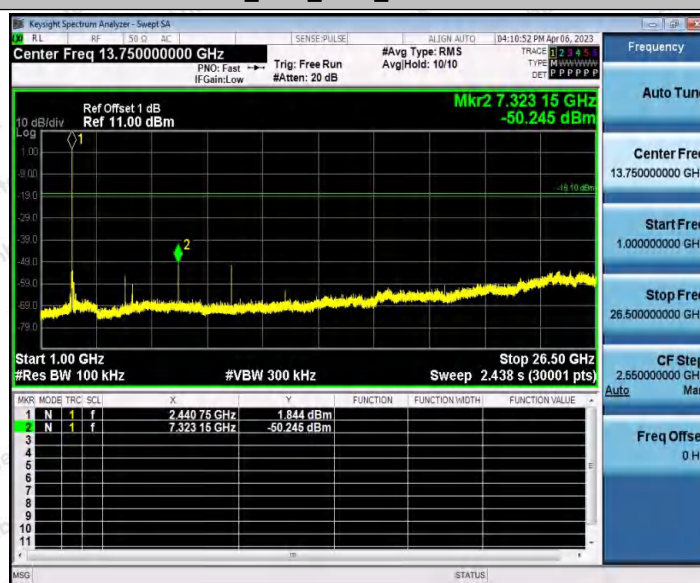
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DH5\_Ant1\_2441\_1000~26500



DH5\_Ant1\_2480\_0~Reference



DH5\_Ant1\_2480\_30~1000

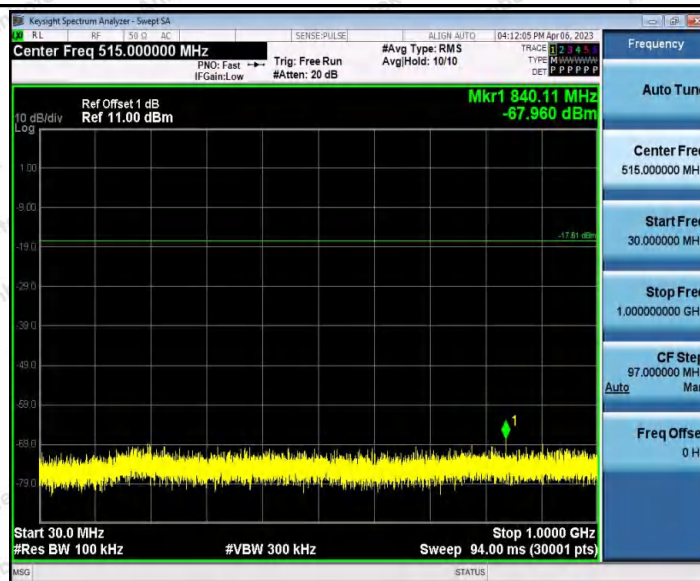
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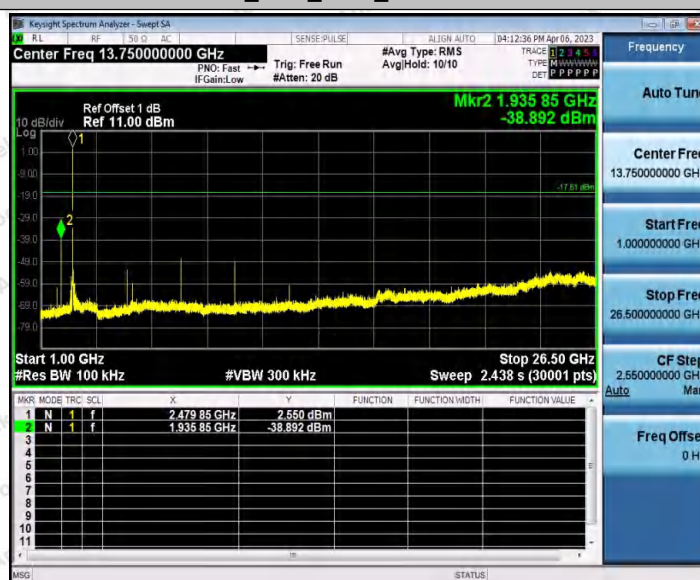


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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference



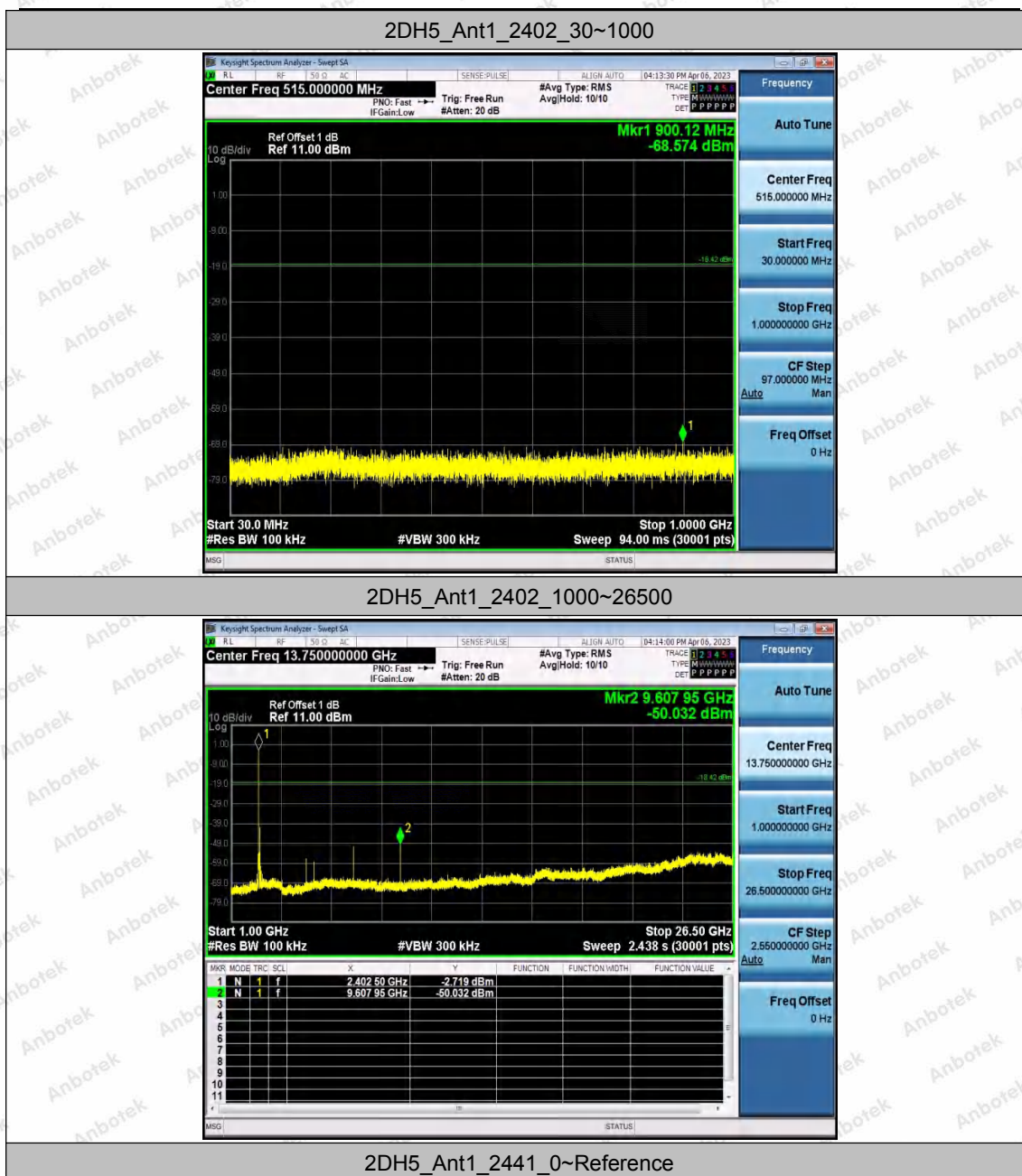
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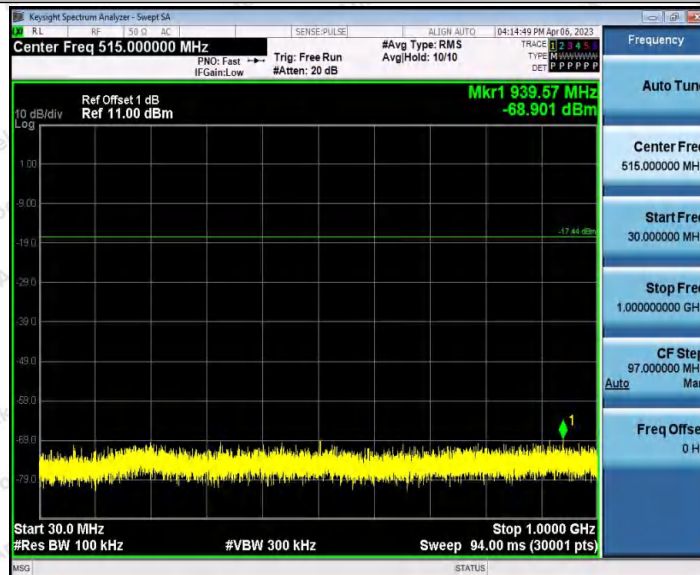


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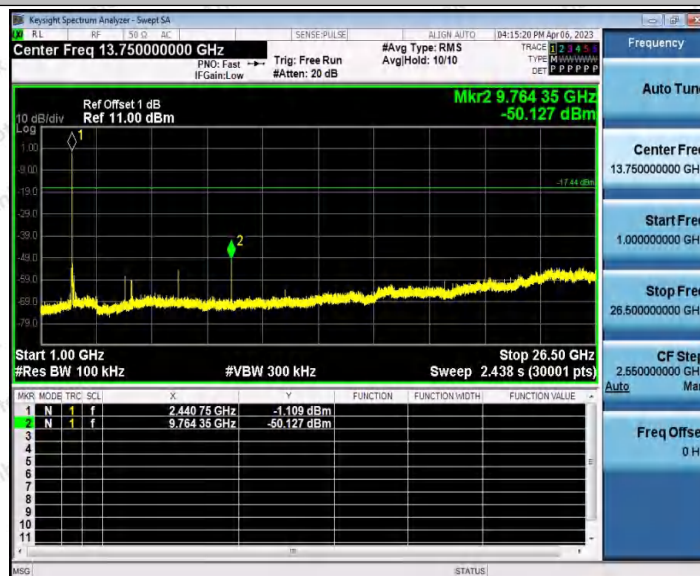




2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



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## 2DH5\_Ant1\_2480\_0~Reference



## 2DH5\_Ant1\_2480\_30~1000



## 2DH5\_Ant1\_2480\_1000~26500

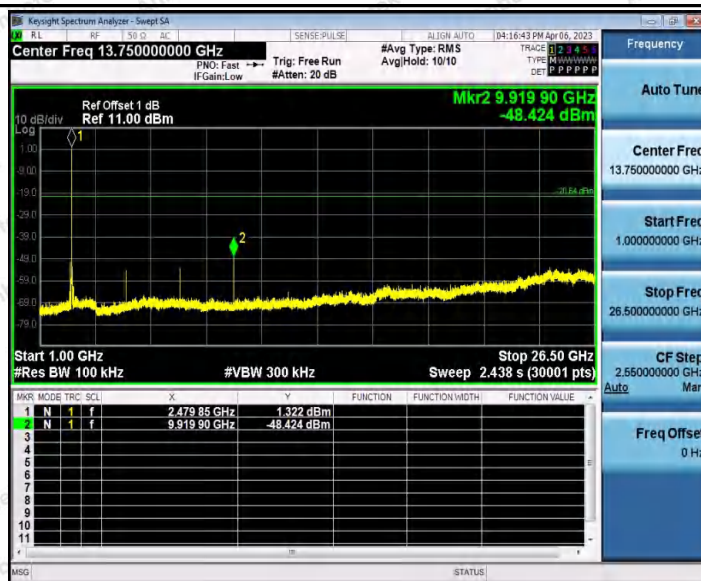
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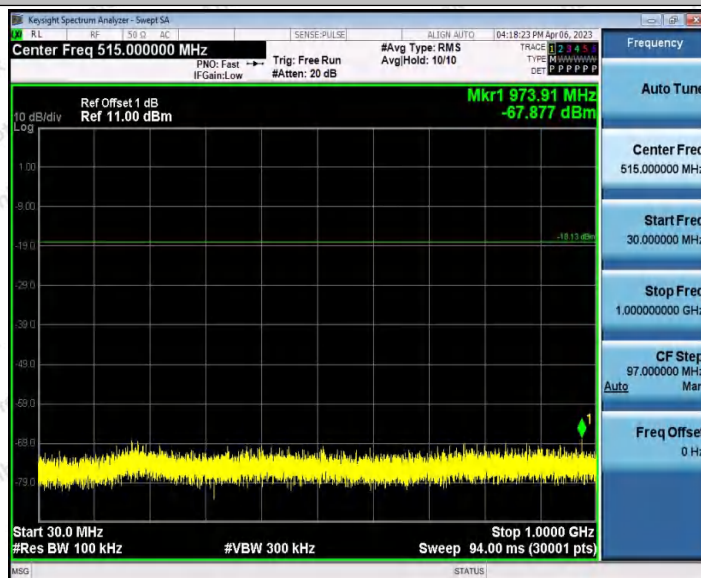




3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000



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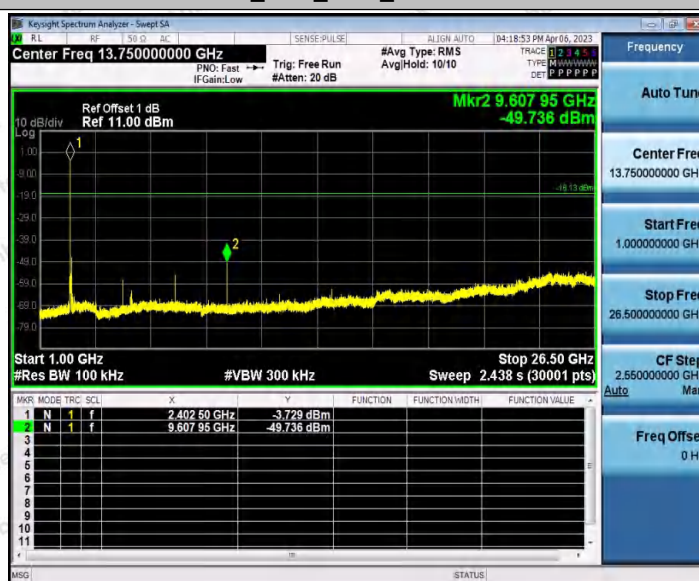
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## 3DH5\_Ant1\_2402\_1000~26500



## 3DH5\_Ant1\_2441\_0~Reference



## 3DH5\_Ant1\_2441\_30~1000

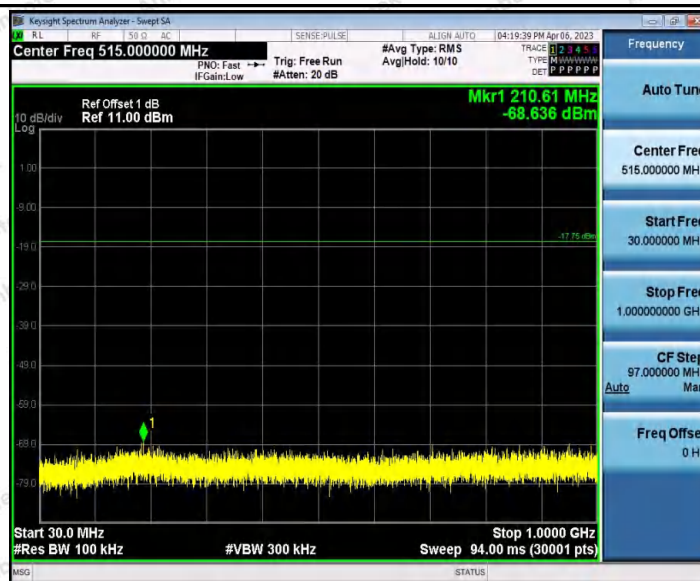
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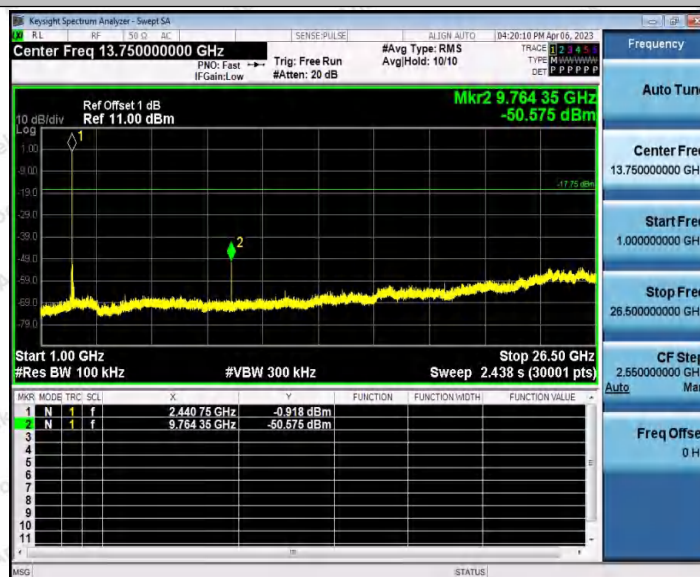


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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference



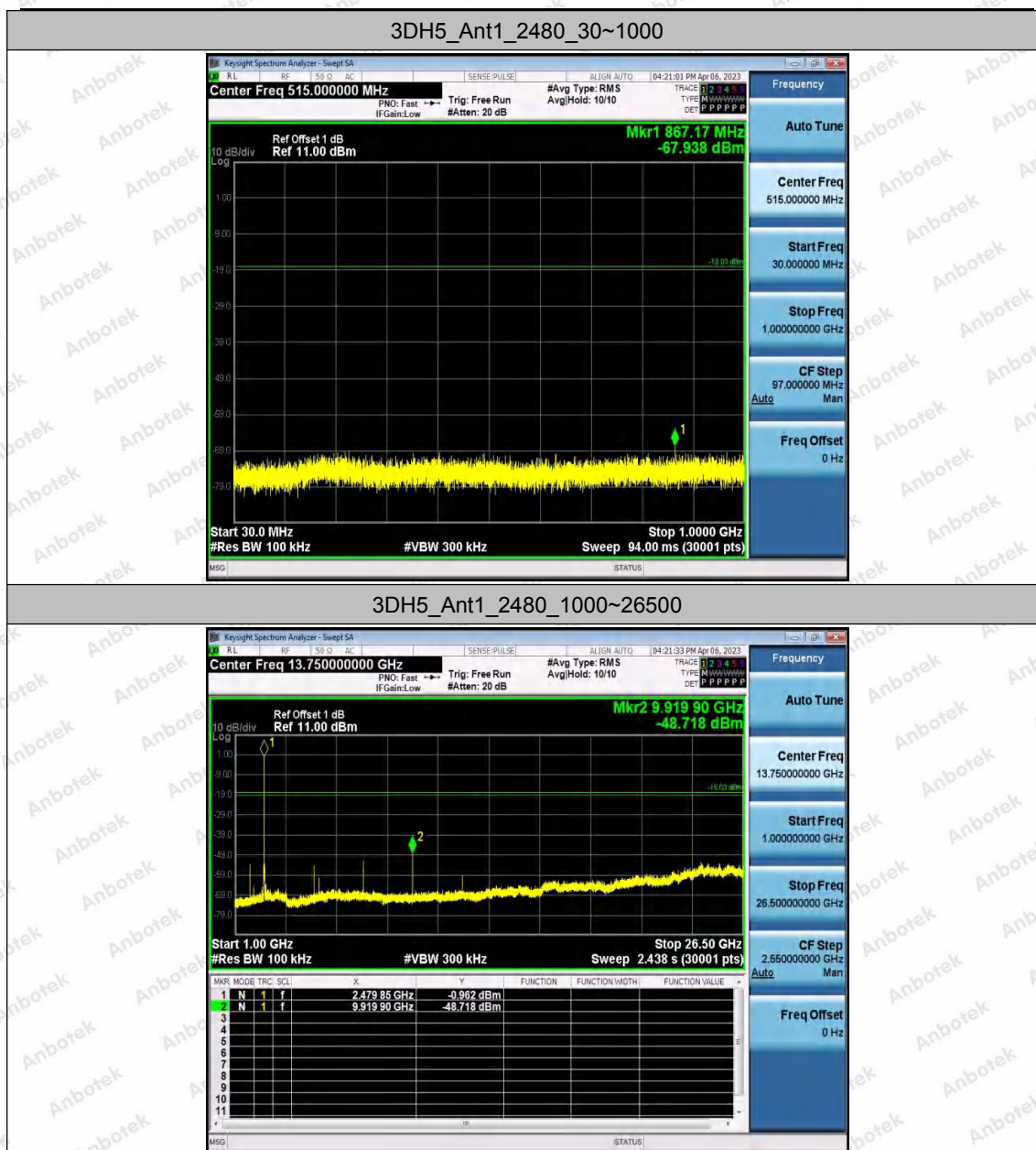
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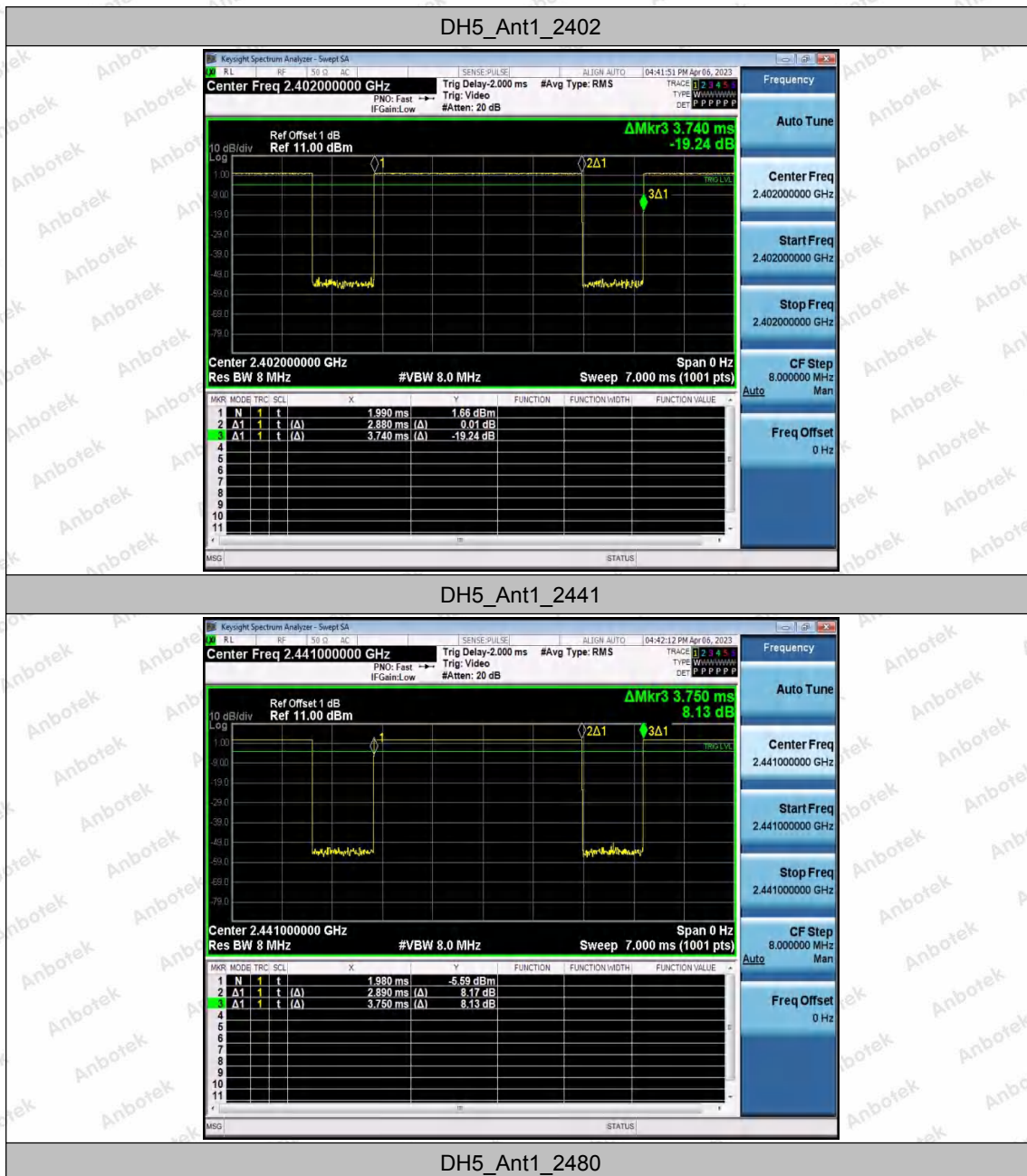
## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| DH5      | Ant1    | 2402           | 2.88            | 3.74           | 77.01             | 1.13                     |
|          |         | 2441           | 2.89            | 3.75           | 77.07             | 1.13                     |
|          |         | 2480           | 2.88            | 3.74           | 77.01             | 1.13                     |
| 2DH5     | Ant1    | 2402           | 2.90            | 3.76           | 77.13             | 1.13                     |
|          |         | 2441           | 2.90            | 3.75           | 77.33             | 1.12                     |
|          |         | 2480           | 2.89            | 3.75           | 77.07             | 1.13                     |
| 3DH5     | Ant1    | 2402           | 2.90            | 3.76           | 77.13             | 1.13                     |
|          |         | 2441           | 2.90            | 3.75           | 77.33             | 1.12                     |
|          |         | 2480           | 2.89            | 3.75           | 77.07             | 1.13                     |



## Test Graphs



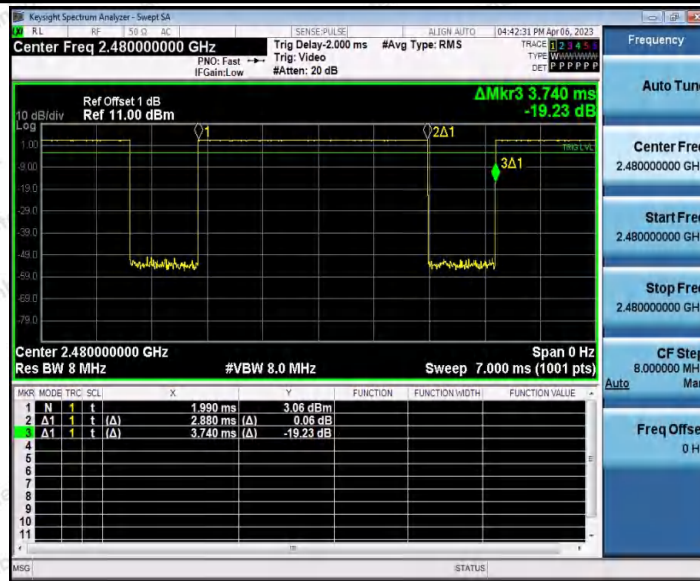
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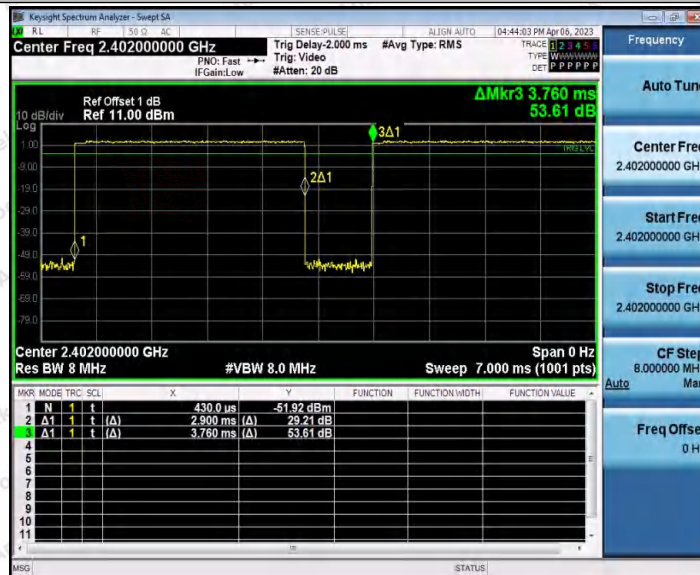


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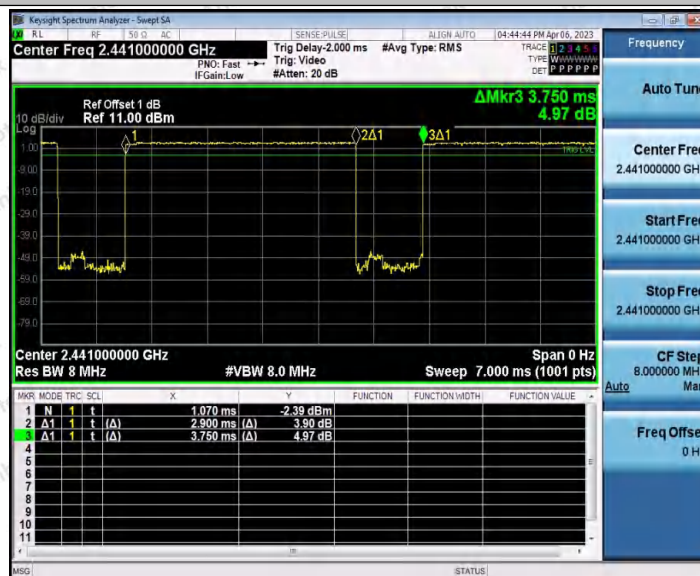




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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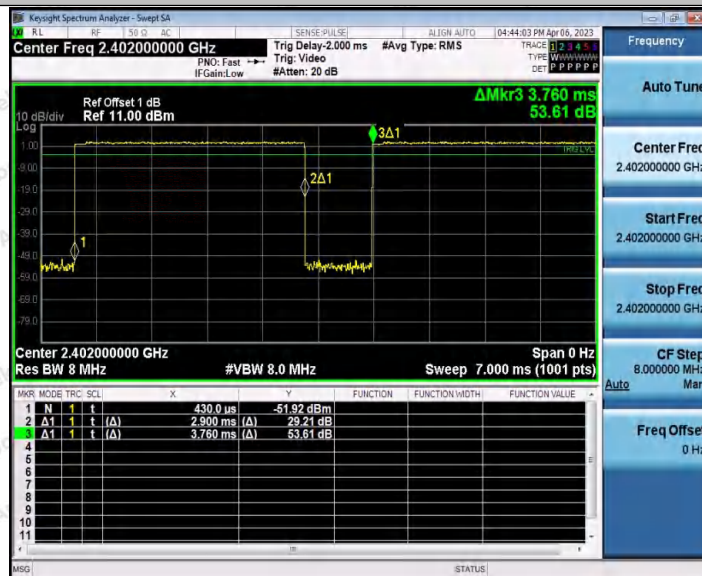
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2DH5\_Ant1\_2480



3DH5\_Ant1\_2402



3DH5\_Ant1\_2441

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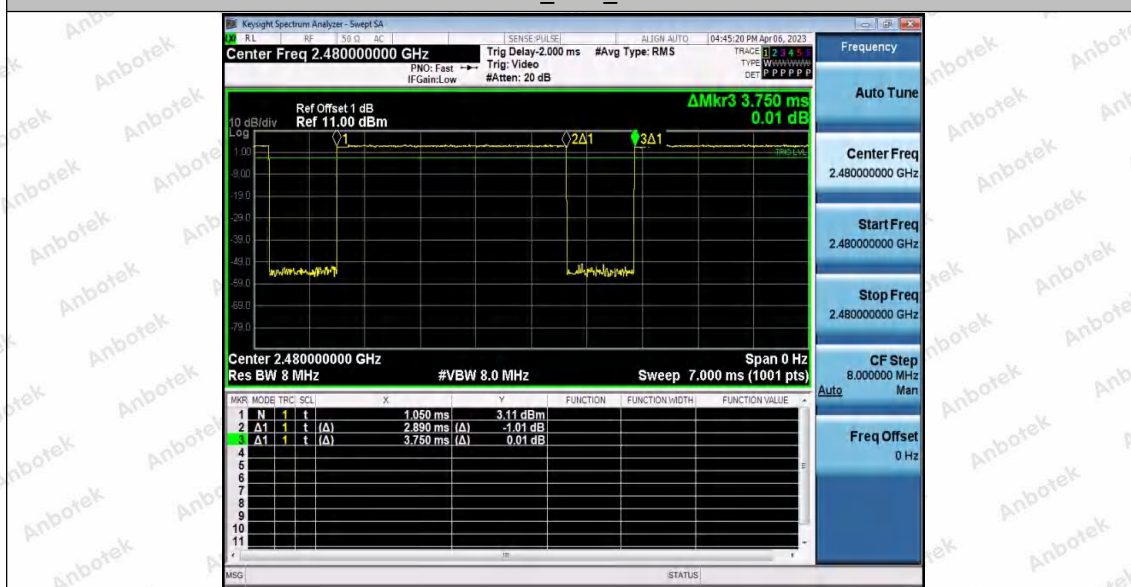


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3DH5\_Ant1\_2480



---End---

