

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

**FCC ID** : 2BQZB-G1668-01

**Company** : Shenzhen GPD Technology Co., Ltd.

**EUT** : Micro Computer

**Model Number** : G1668-01

**Report No.** : CTA26070200302

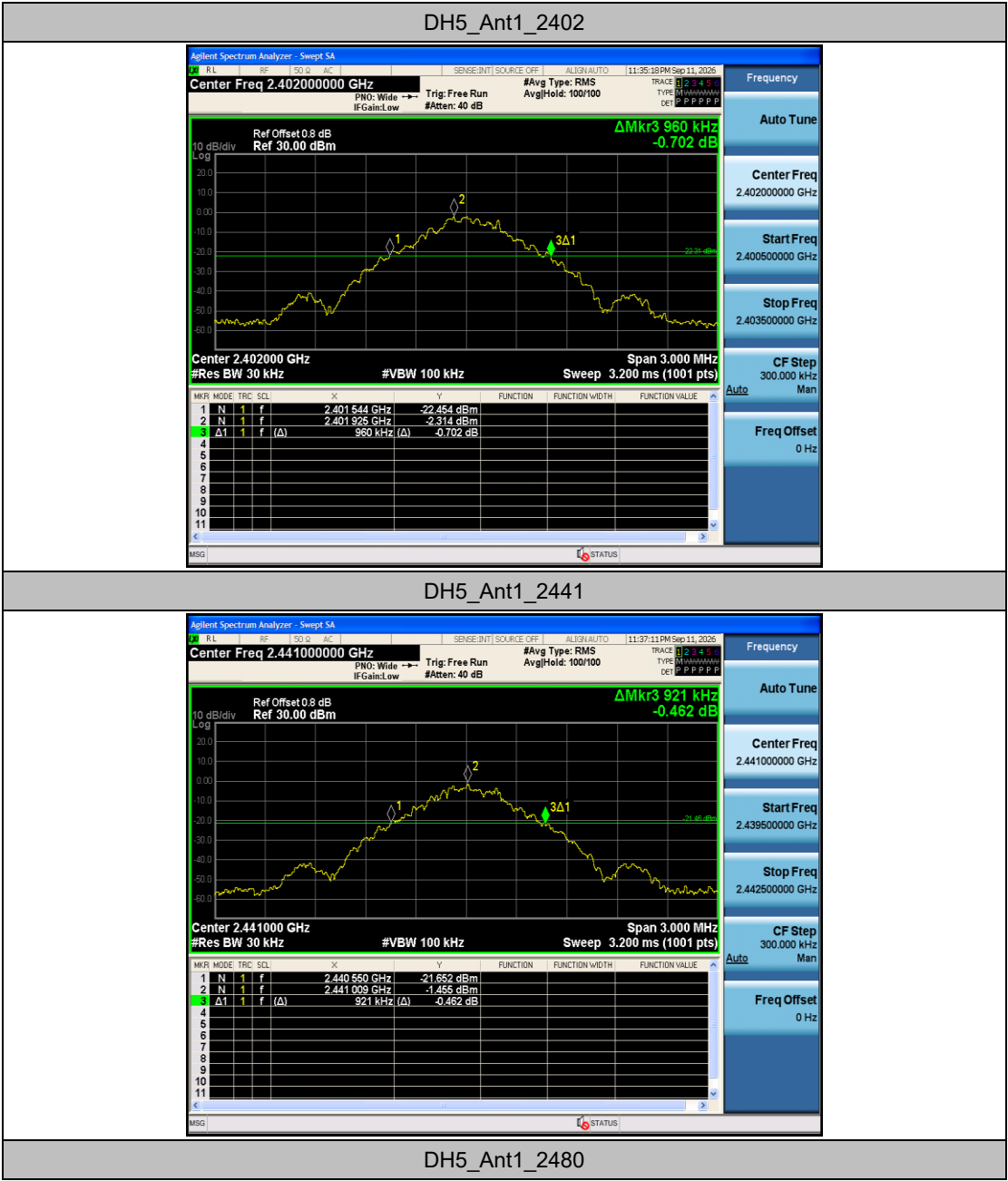
**Reviewed By** : Eric Wang

## 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      | 0.960            | 2401.544 | 2402.504 | ---        | ---     |
|          |         | 2441      | 0.921            | 2440.550 | 2441.471 | ---        | ---     |
|          |         | 2480      | 0.960            | 2479.544 | 2480.504 | ---        | ---     |
| 2DH5     | Ant1    | 2402      | 1.284            | 2401.376 | 2402.660 | ---        | ---     |
|          |         | 2441      | 1.335            | 2440.340 | 2441.675 | ---        | ---     |
|          |         | 2480      | 1.275            | 2479.379 | 2480.654 | ---        | ---     |
| 3DH5     | Ant1    | 2402      | 1.290            | 2401.361 | 2402.651 | ---        | ---     |
|          |         | 2441      | 1.302            | 2440.358 | 2441.660 | ---        | ---     |
|          |         | 2480      | 1.302            | 2479.364 | 2480.666 | ---        | ---     |

Test Graphs





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

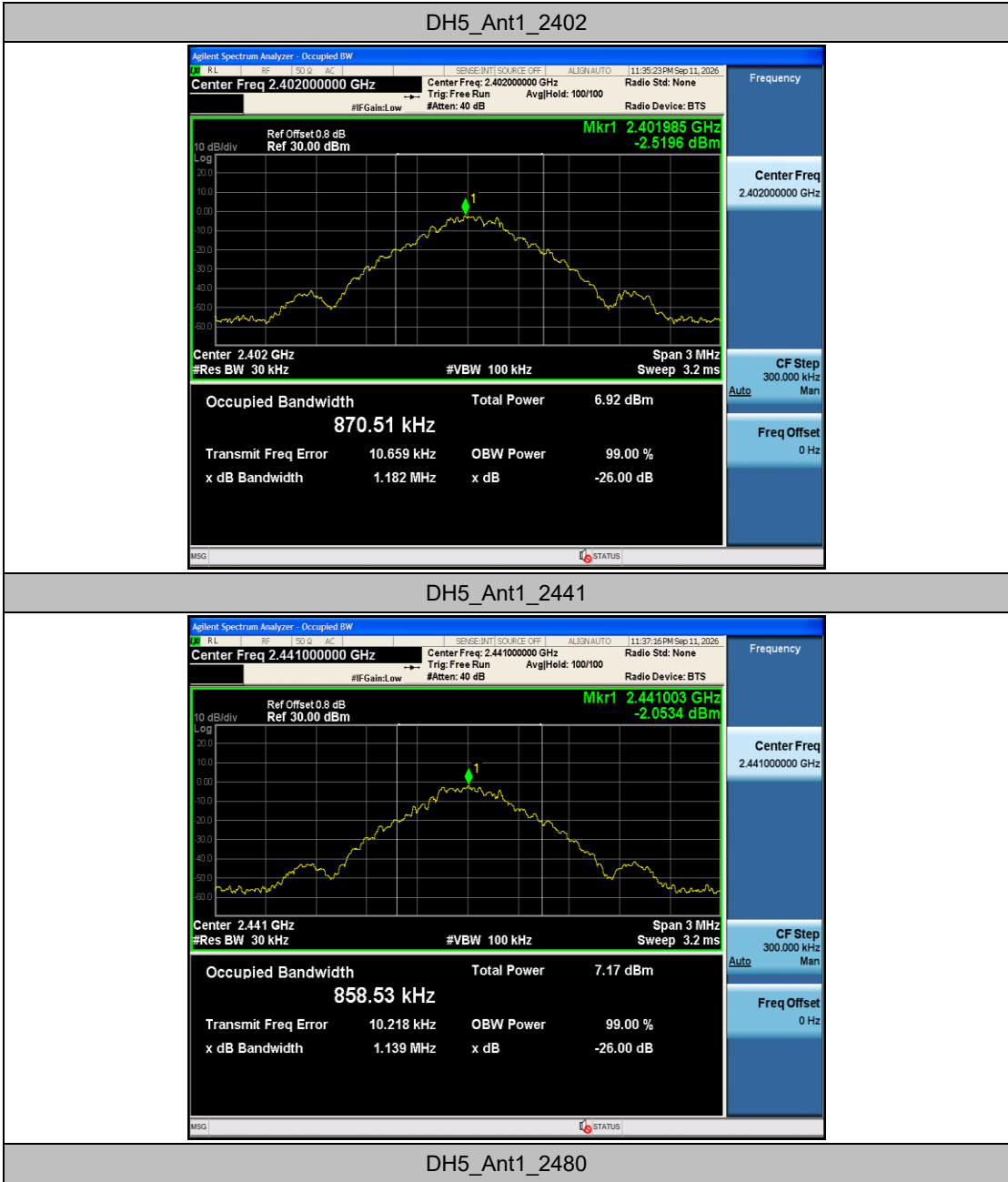


## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402      | 0.87051   | 2401.5754 | 2402.4459 | ---        | ---     |
|          |         | 2441      | 0.85853   | 2440.5810 | 2441.4395 | ---        | ---     |
|          |         | 2480      | 0.85793   | 2479.5777 | 2480.4357 | ---        | ---     |
| 2DH5     | Ant1    | 2402      | 1.1842    | 2401.4183 | 2402.6025 | ---        | ---     |
|          |         | 2441      | 1.1760    | 2440.4211 | 2441.5971 | ---        | ---     |
|          |         | 2480      | 1.1861    | 2479.4184 | 2480.6045 | ---        | ---     |
| 3DH5     | Ant1    | 2402      | 1.1988    | 2401.4116 | 2402.6104 | ---        | ---     |
|          |         | 2441      | 1.1811    | 2440.4223 | 2441.6034 | ---        | ---     |
|          |         | 2480      | 1.1915    | 2479.4177 | 2480.6092 | ---        | ---     |

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

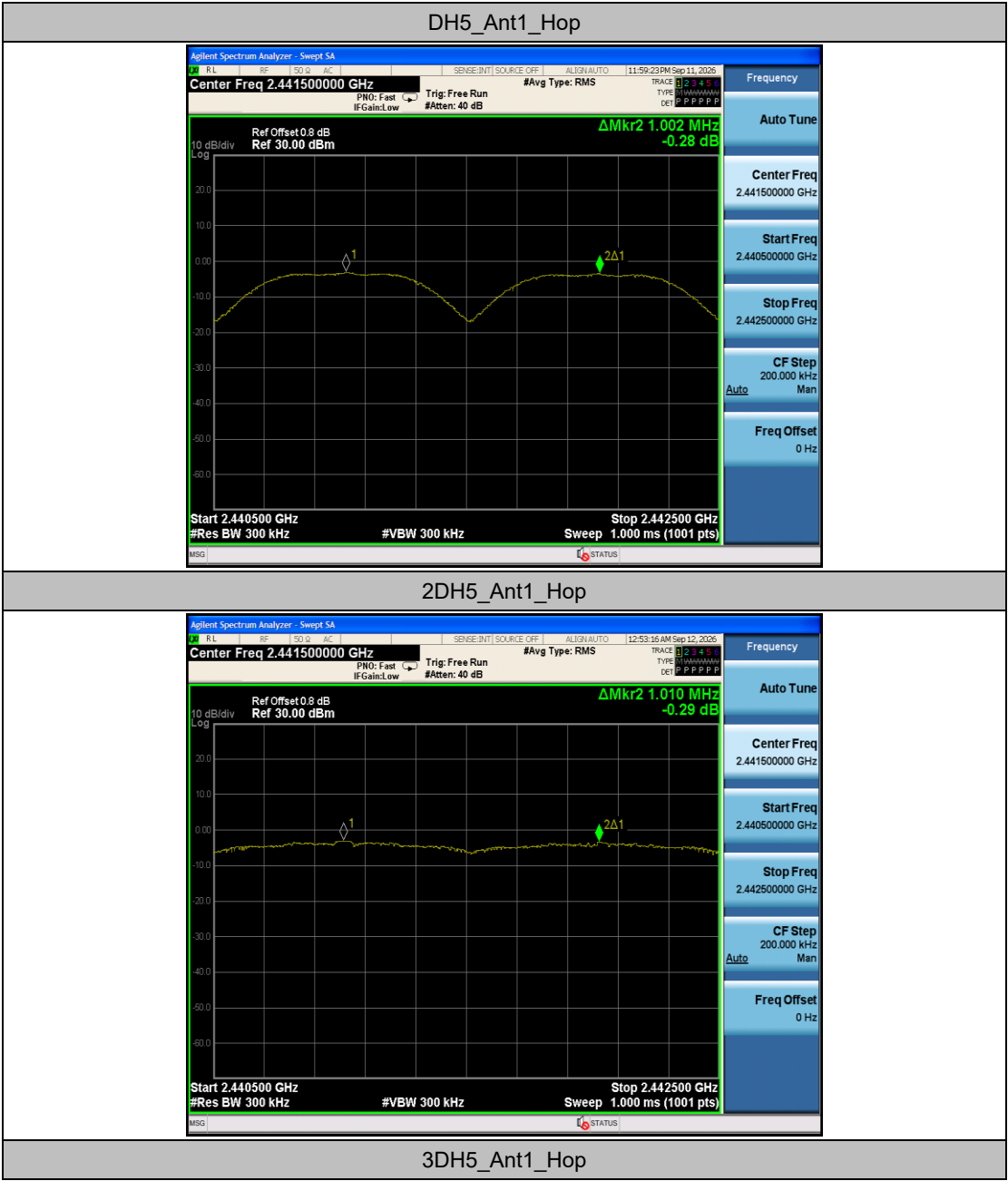
| Test Mode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402      | 0.51                      | ≤20.97               | PASS    |
|           |         | 2441      | 0.42                      | ≤20.97               | PASS    |
|           |         | 2480      | 0.20                      | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2402      | -0.33                     | ≤20.97               | PASS    |
|           |         | 2441      | -0.46                     | ≤20.97               | PASS    |
|           |         | 2480      | -0.64                     | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2402      | 0.03                      | ≤20.97               | PASS    |
|           |         | 2441      | -0.01                     | ≤20.97               | PASS    |
|           |         | 2480      | -0.26                     | ≤20.97               | PASS    |

## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|-----------|-------------|--------------|---------|
| DH5      | Ant1    | Hop       | 1.002       | $\geq 0.960$ | PASS    |
| 2DH5     | Ant1    | Hop       | 1.01        | $\geq 0.890$ | PASS    |
| 3DH5     | Ant1    | Hop       | 1.056       | $\geq 0.868$ | PASS    |

Test Graphs



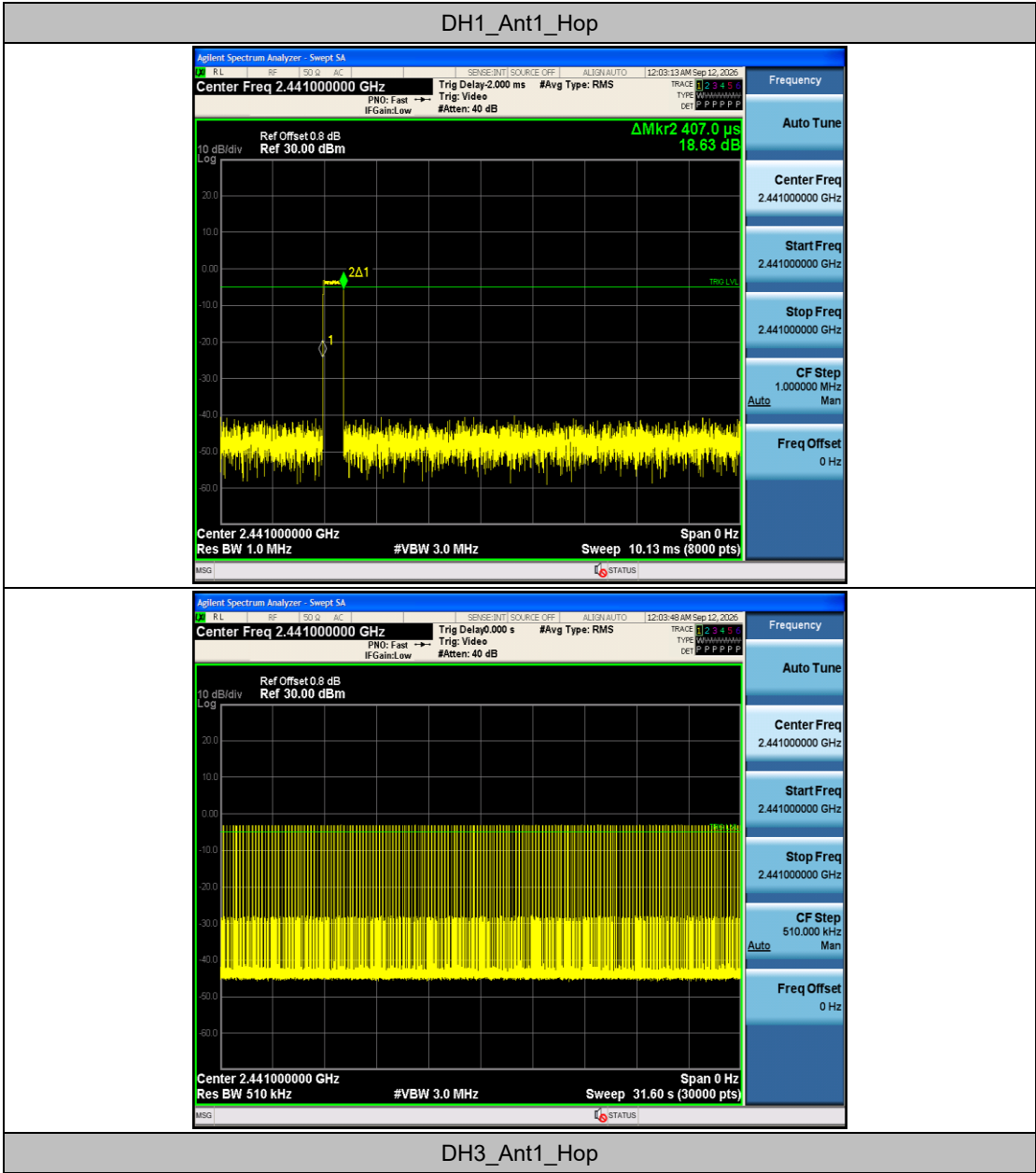


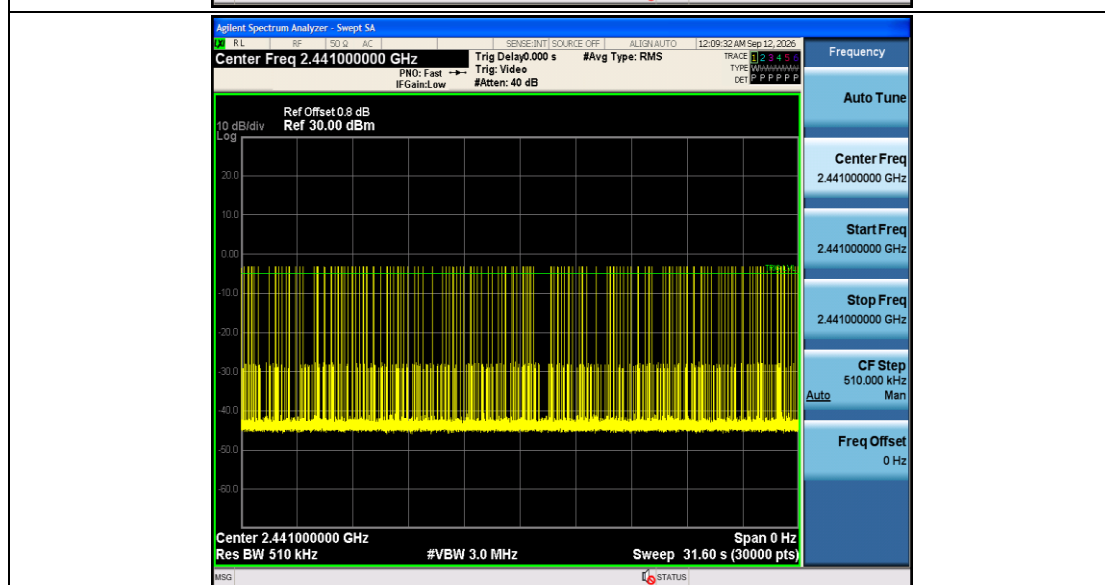
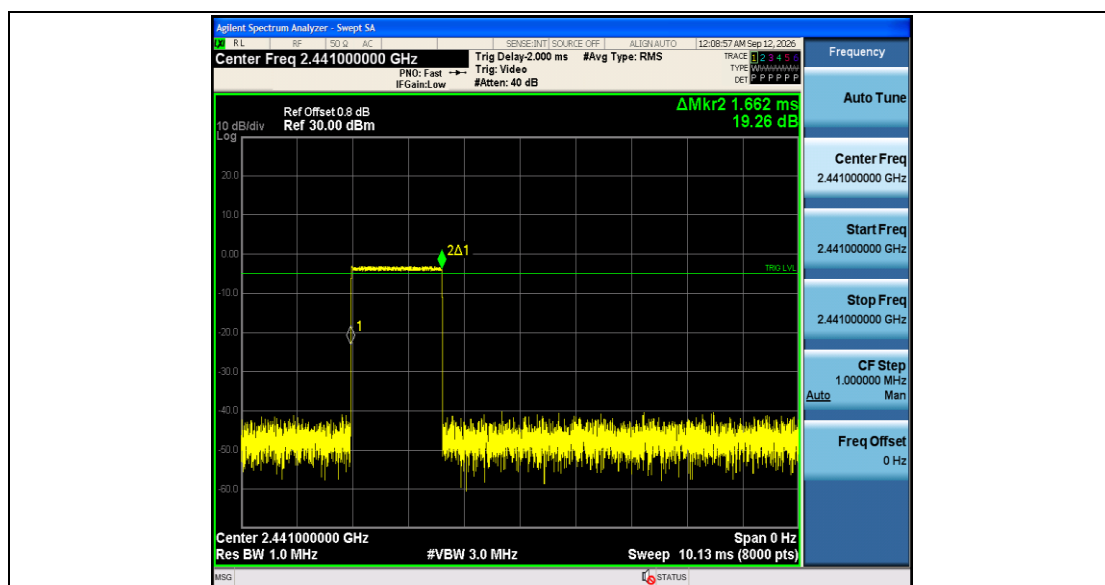
## Appendix E: Time of occupancy

### Test Result

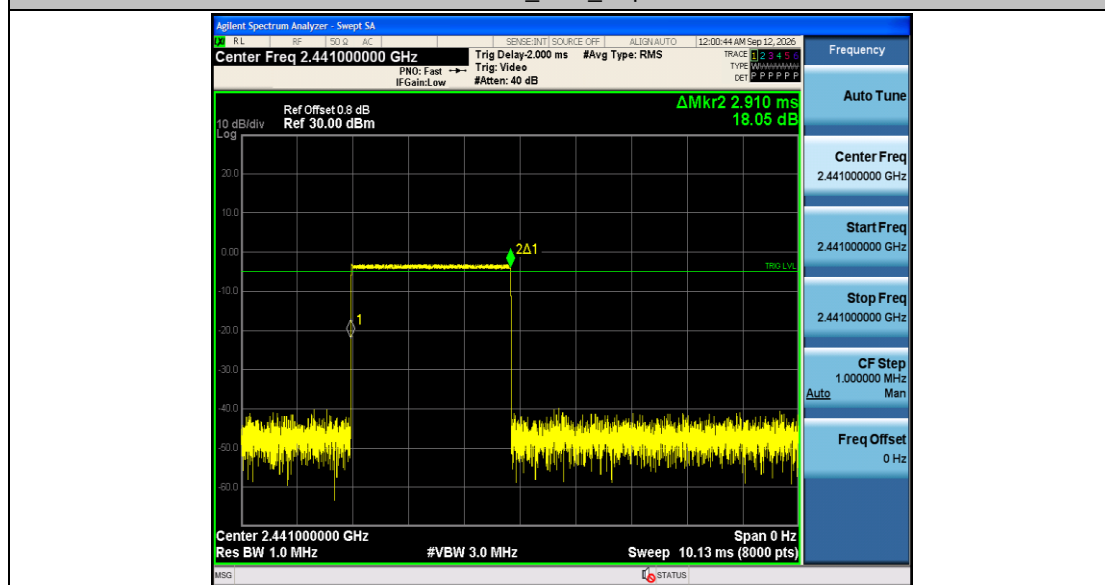
| TestMode | Antenna | Freq(MHz) | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|-----------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop       | 0.407              | 318                | 0.129     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop       | 1.662              | 161                | 0.268     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop       | 2.910              | 107                | 0.311     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop       | 0.415              | 318                | 0.132     | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop       | 1.668              | 0                  | 0         | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop       | 2.916              | 117                | 0.341     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop       | 0.414              | 318                | 0.132     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop       | 1.666              | 155                | 0.258     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop       | 2.917              | 96                 | 0.28      | ≤0.4     | PASS    |

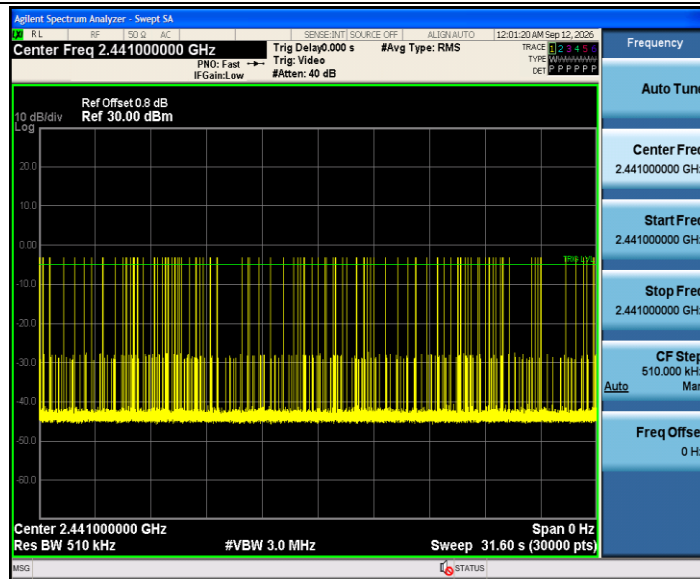
Test Graphs



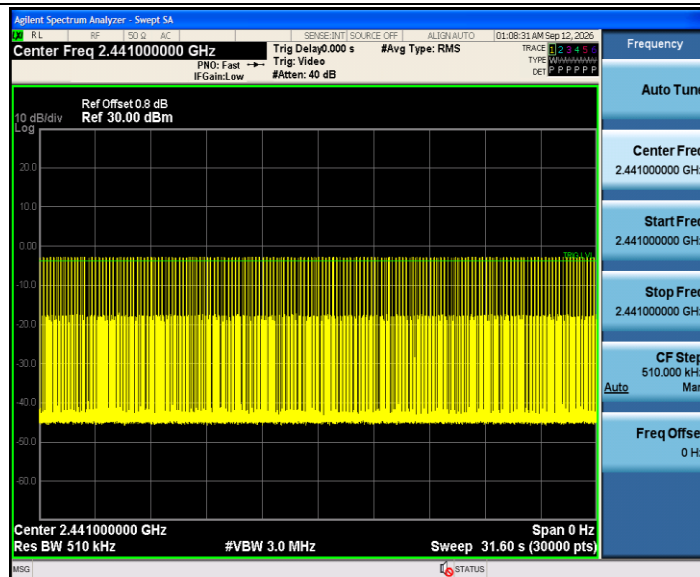
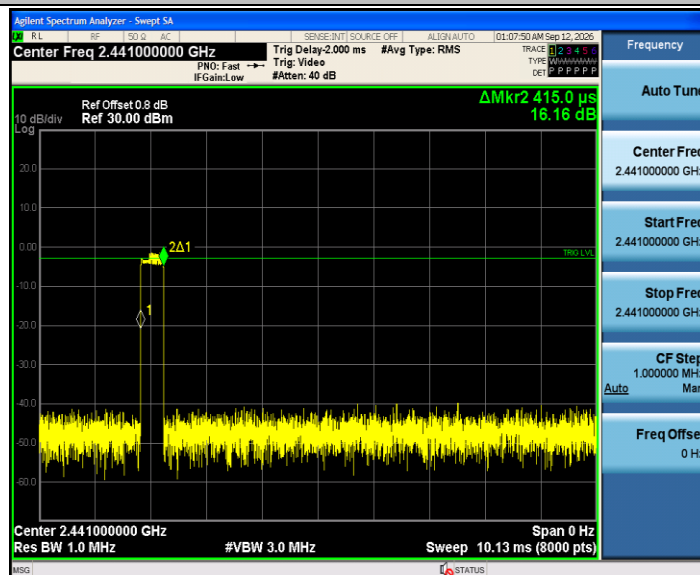


DH5\_Ant1\_Hop

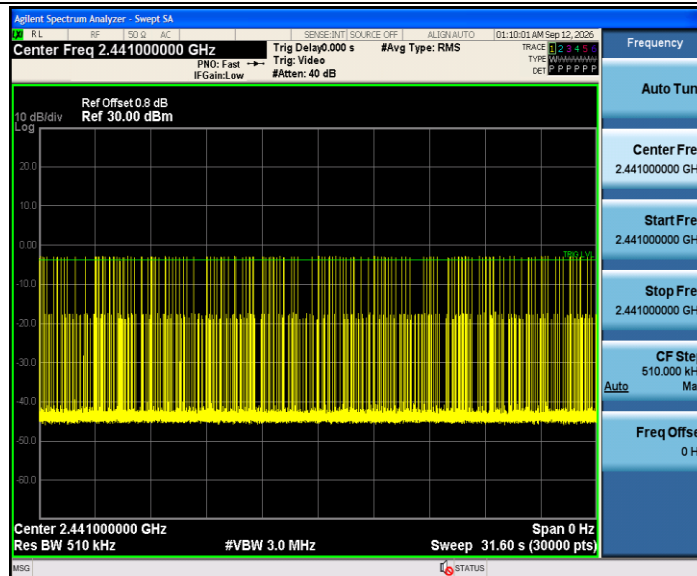
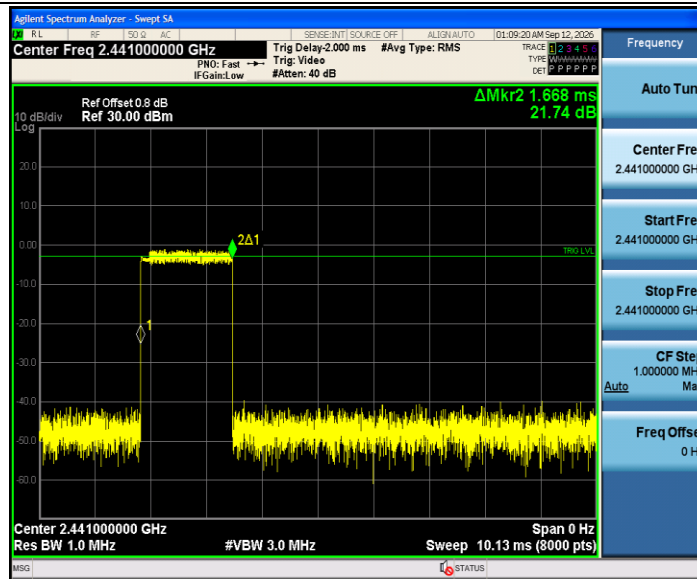




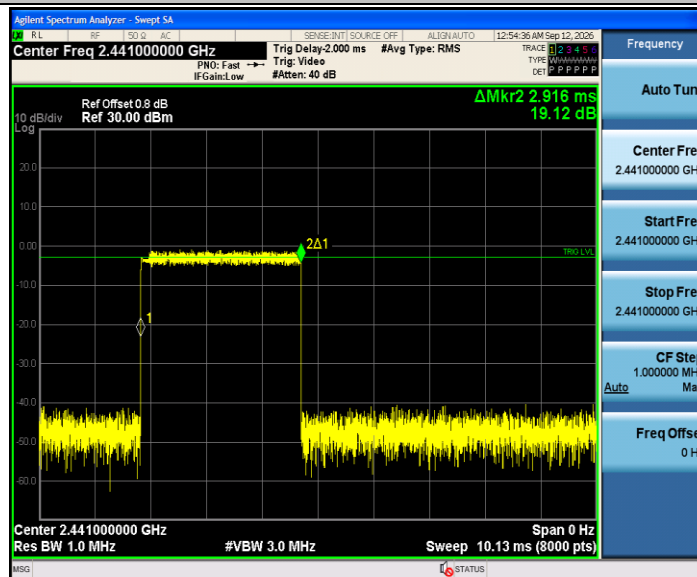
2DH1\_Ant1\_Hop

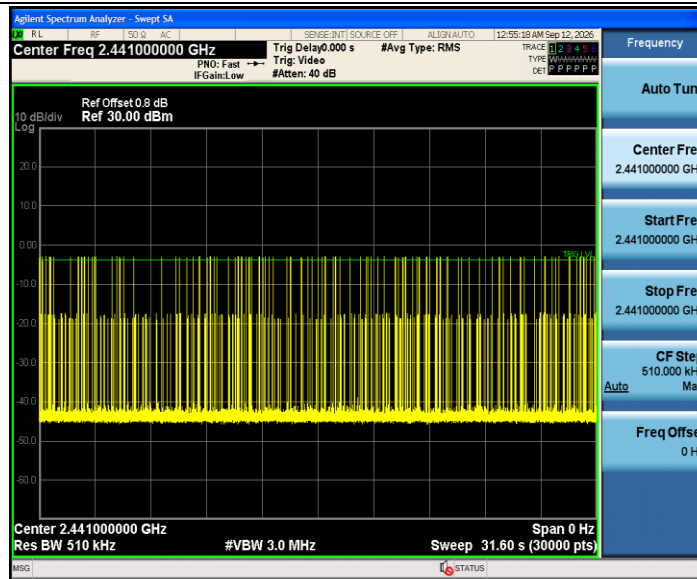


2DH3\_Ant1\_Hop

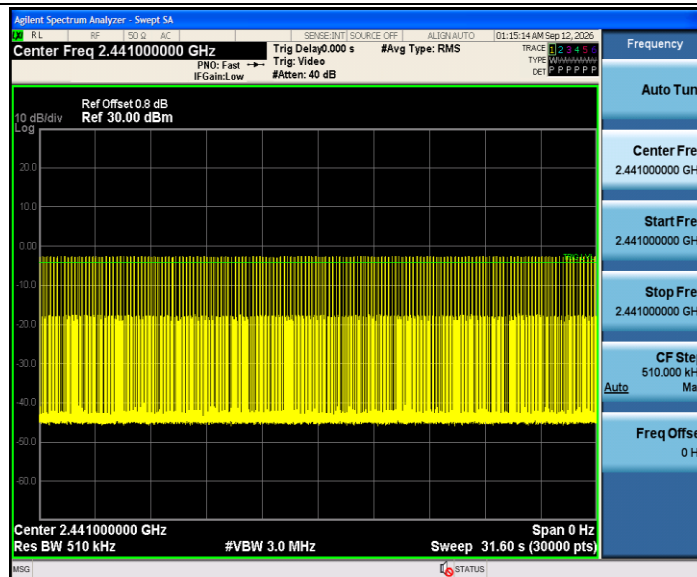
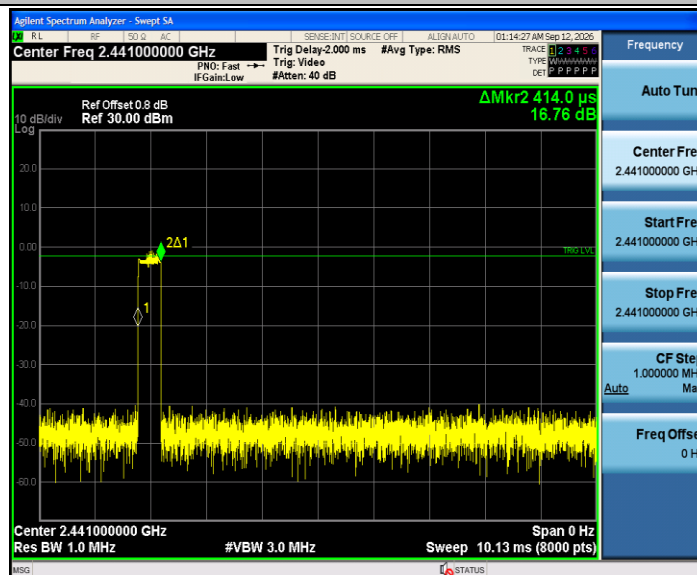


2DH5\_Ant1\_Hop

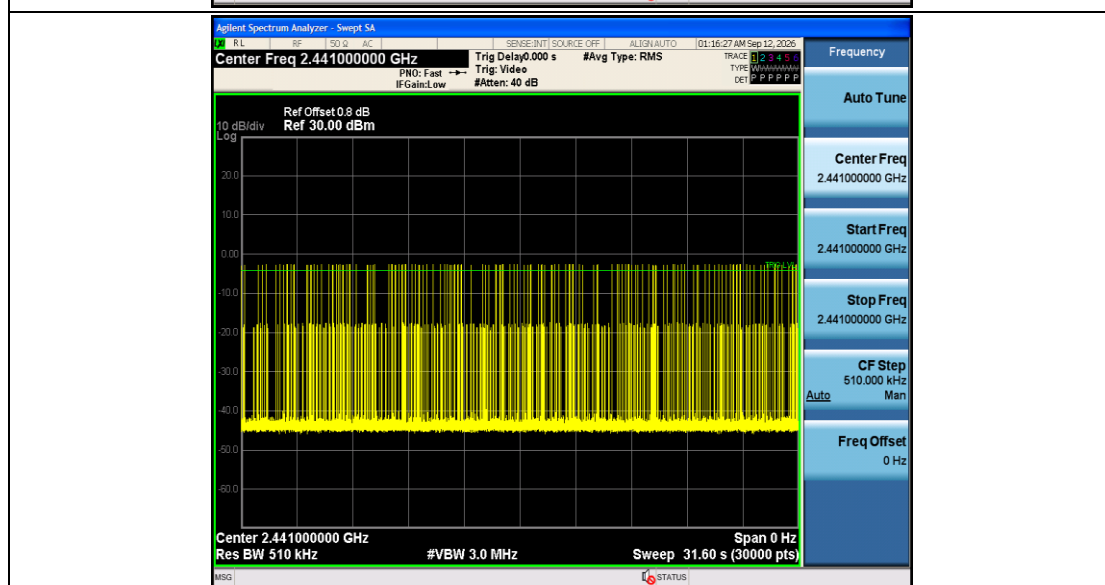
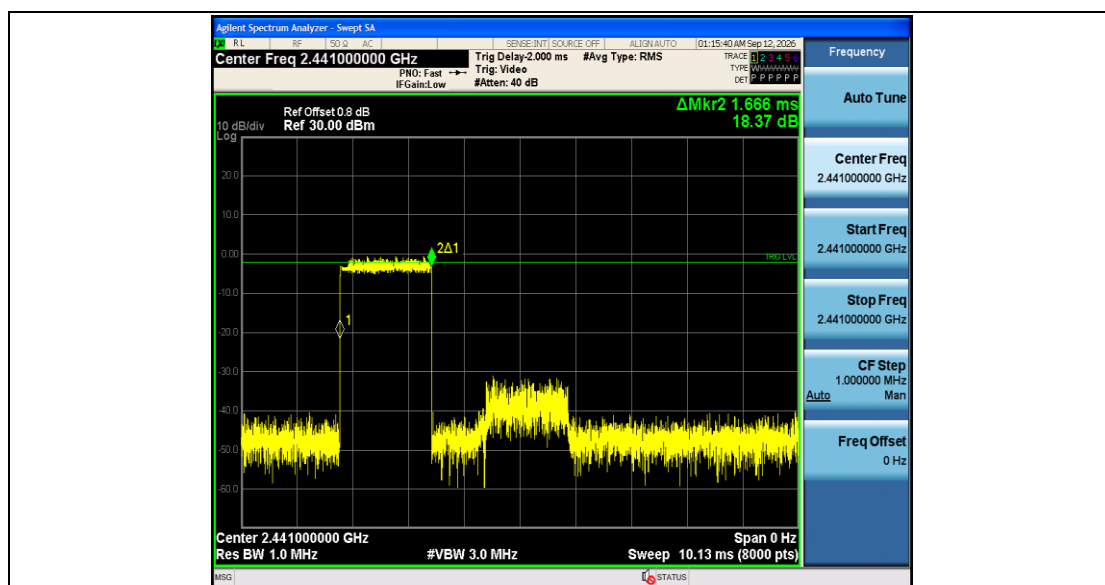




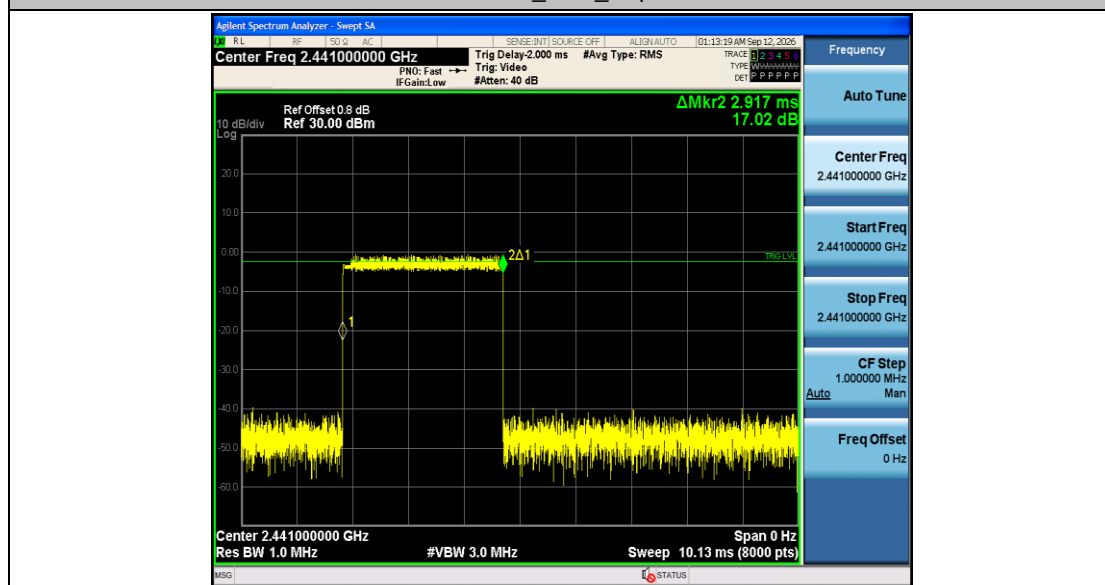
3DH1\_Ant1\_Hop

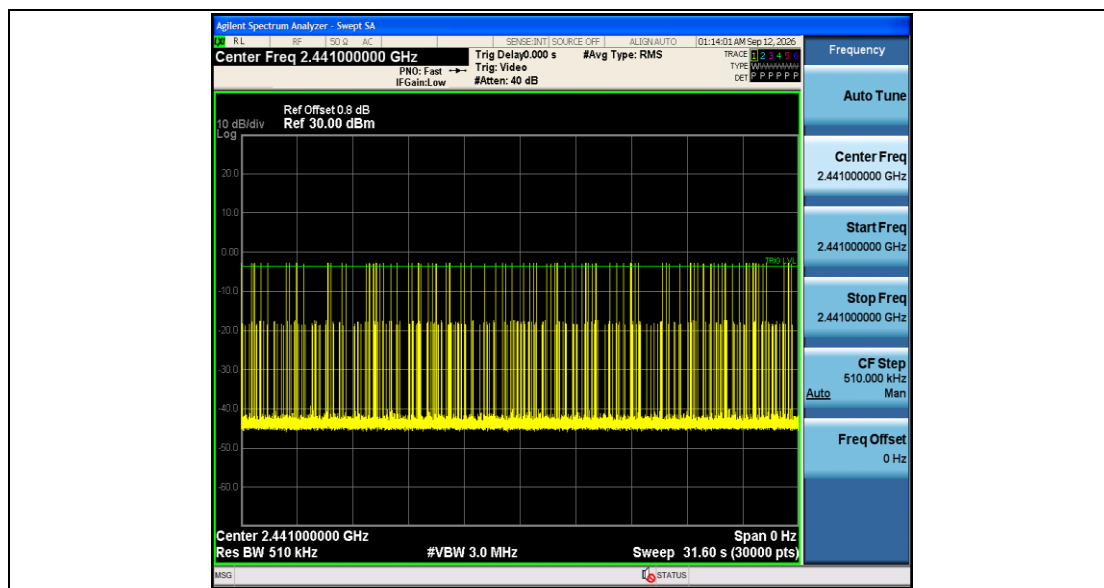


3DH3\_Ant1\_Hop



3DH5\_Ant1\_Hop



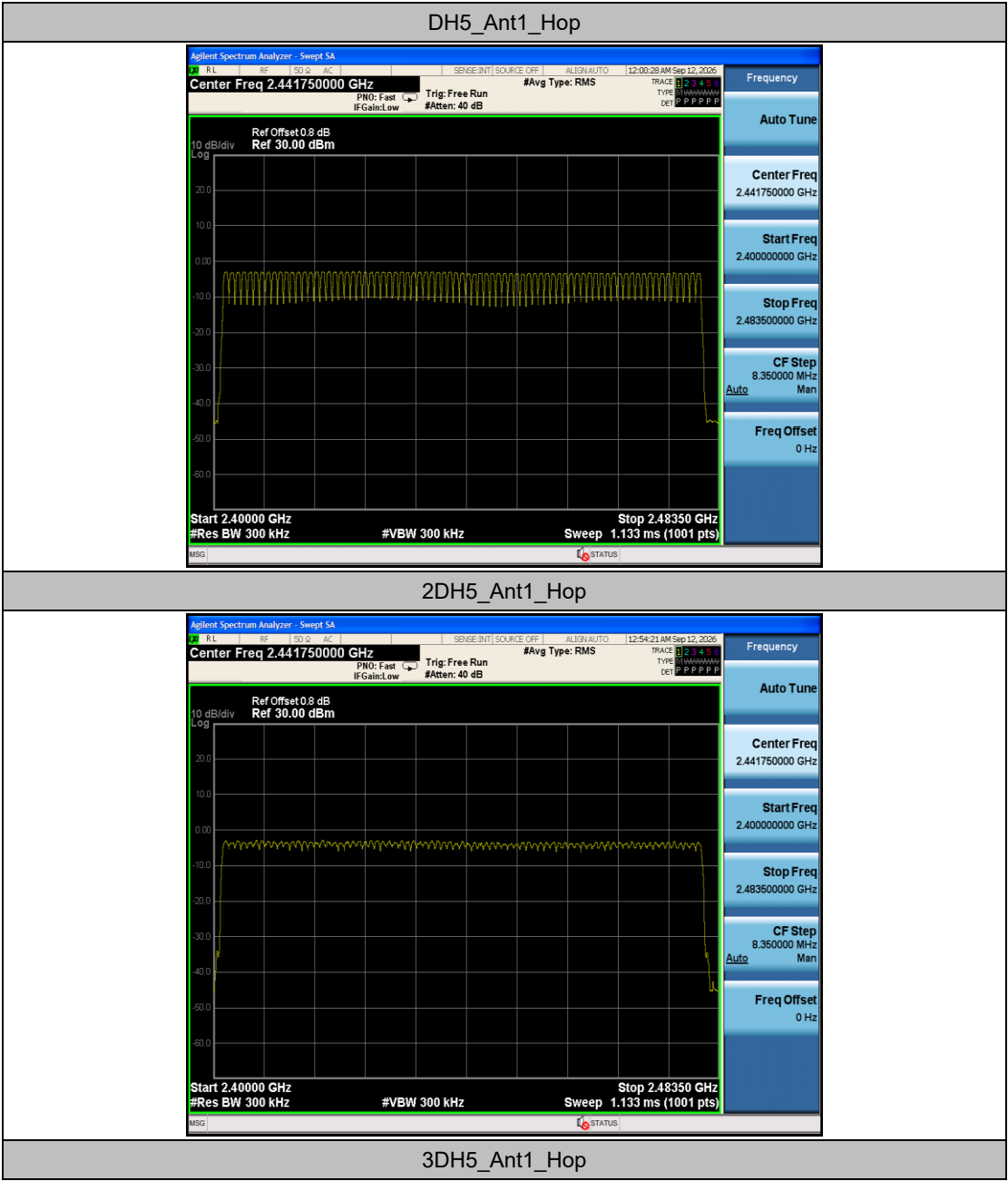


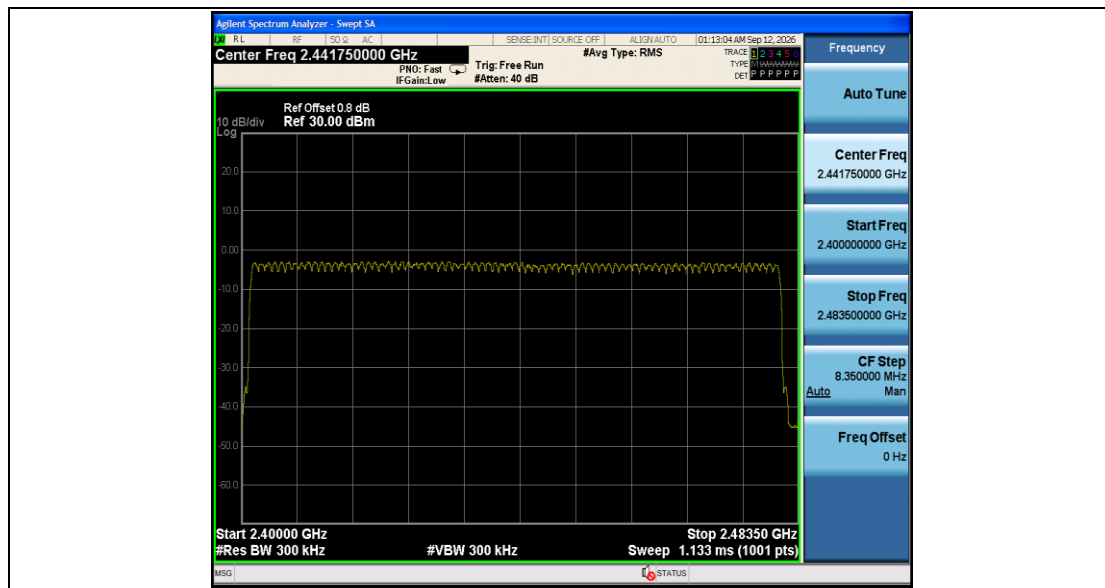
## Appendix F: Number of hopping channels

### 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



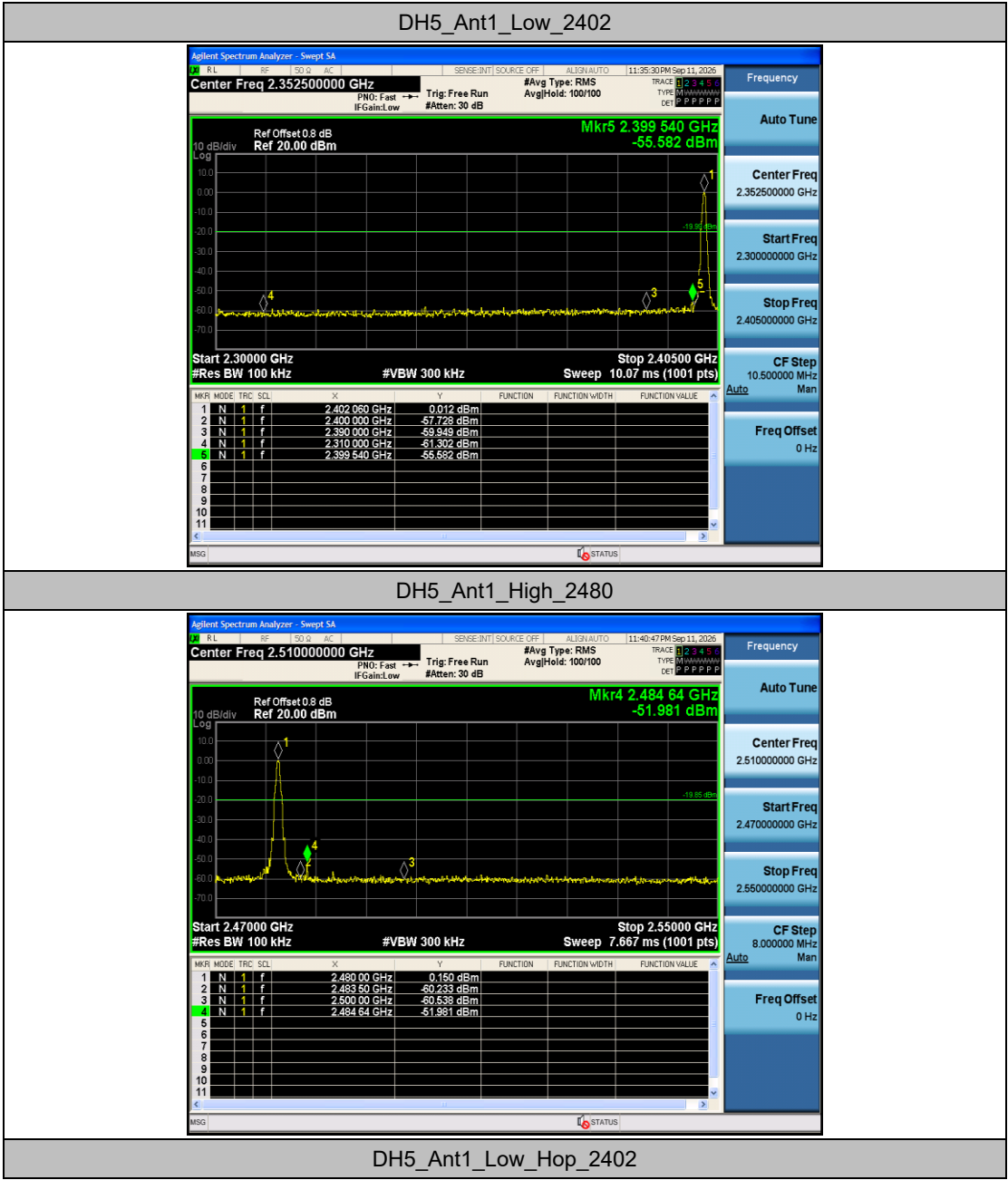


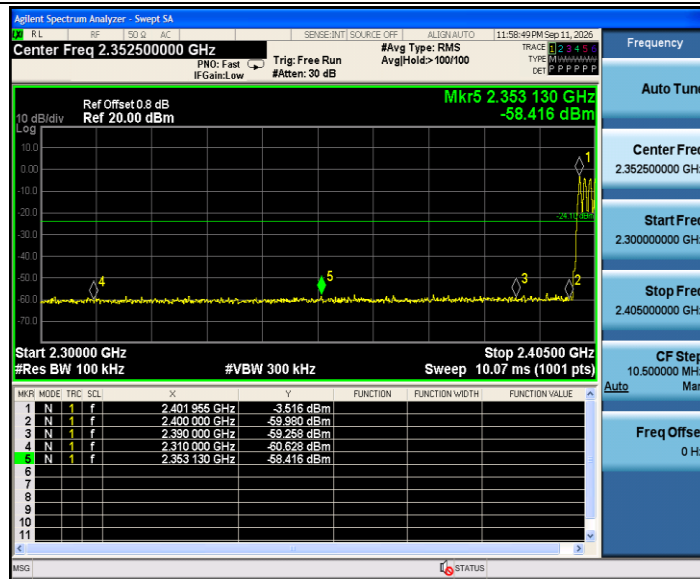
## Appendix G: Band edge measurements

### Test Result

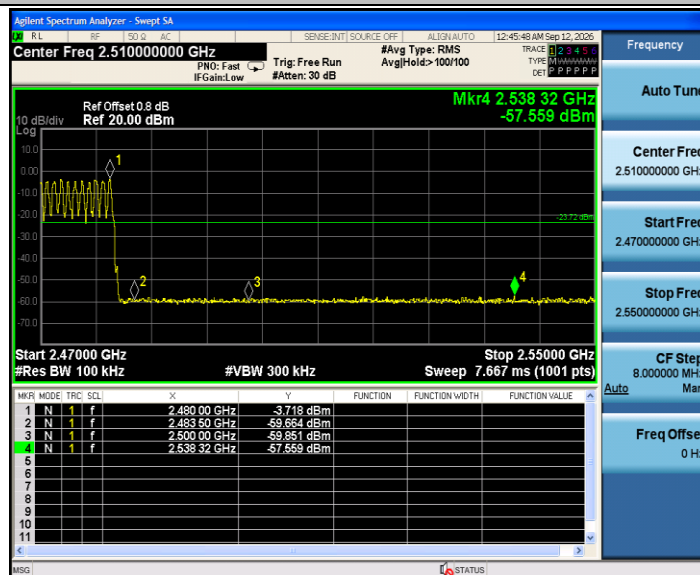
| TestMode | Antenna | ChName | Freq(MHz) | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|-----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402      | 0.01              | -55.58          | $\leq -19.99$  | PASS    |
|          |         | High   | 2480      | 0.15              | -51.98          | $\leq -19.85$  | PASS    |
|          |         | Low    | Hop_2402  | -4.10             | -58.42          | $\leq -24.1$   | PASS    |
|          |         | High   | Hop_2480  | -3.72             | -57.56          | $\leq -23.72$  | PASS    |
| 2DH5     | Ant1    | Low    | 2402      | -4.42             | -56.56          | $\leq -24.42$  | PASS    |
|          |         | High   | 2480      | -3.72             | -57.84          | $\leq -23.72$  | PASS    |
|          |         | Low    | Hop_2402  | -3.15             | -54.16          | $\leq -23.15$  | PASS    |
|          |         | High   | Hop_2480  | -3.40             | -57.53          | $\leq -23.4$   | PASS    |
| 3DH5     | Ant1    | Low    | 2402      | -5.60             | -57.62          | $\leq -25.6$   | PASS    |
|          |         | High   | 2480      | -3.50             | -57.69          | $\leq -23.5$   | PASS    |
|          |         | Low    | Hop_2402  | -5.19             | -57.53          | $\leq -25.19$  | PASS    |
|          |         | High   | Hop_2480  | -4.55             | -57.01          | $\leq -24.55$  | PASS    |

# Test Graphs

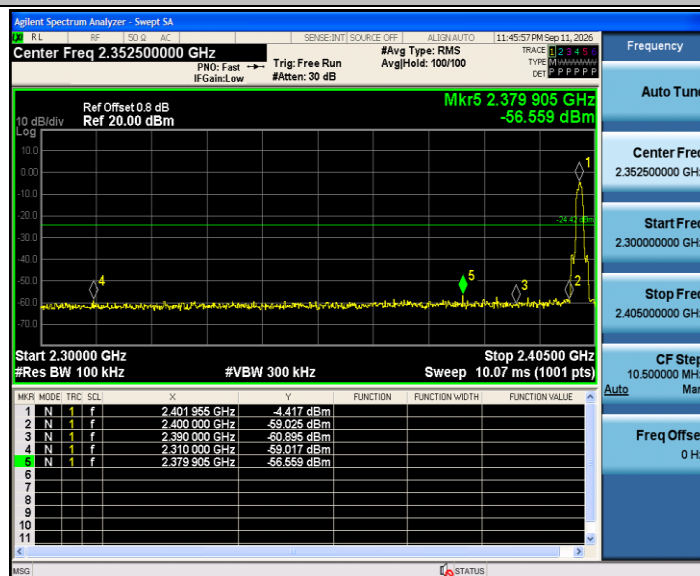




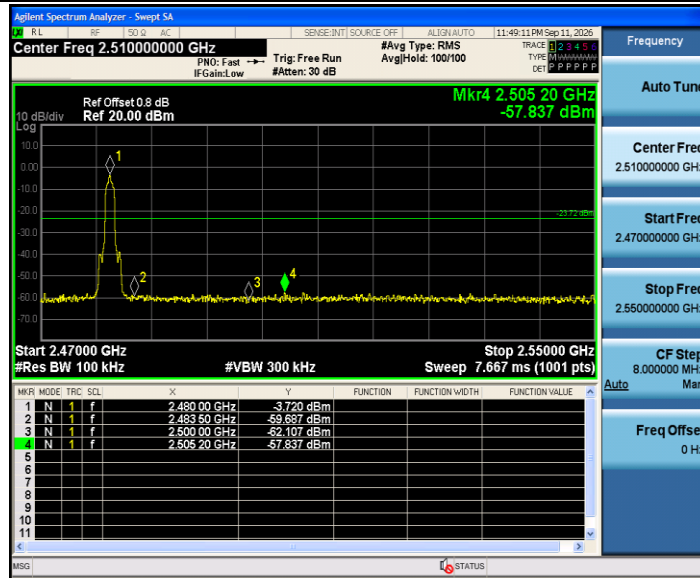
DH5\_Ant1\_High\_Hop\_2480



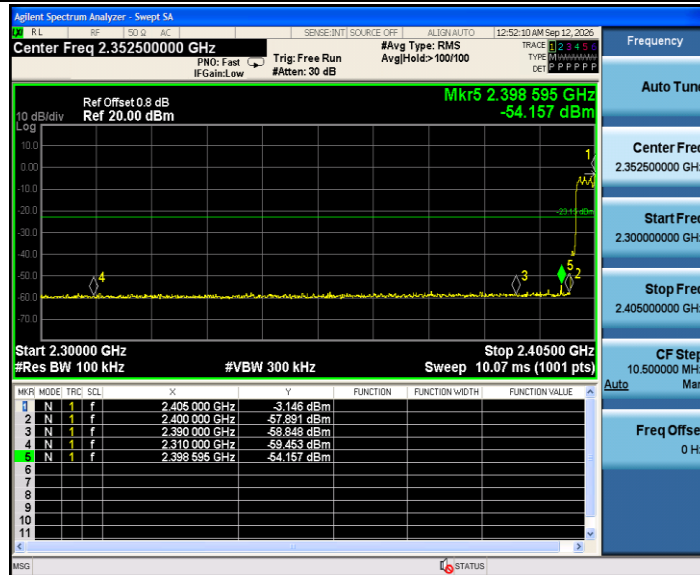
2DH5\_Ant1\_Low\_2402



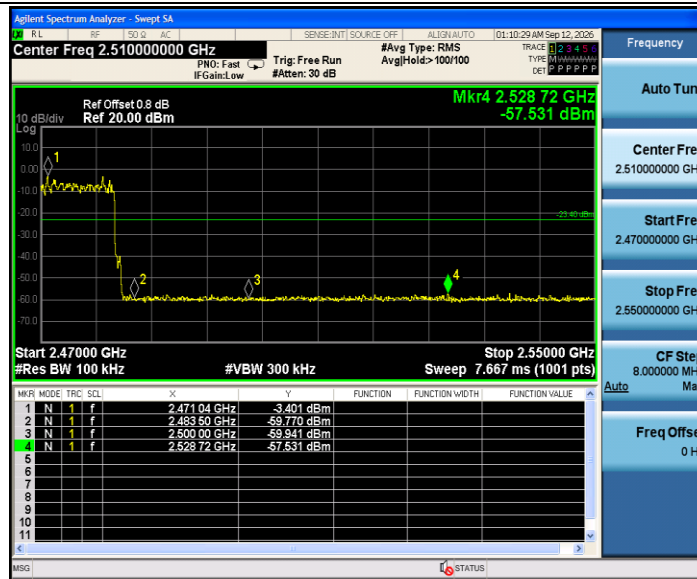
## 2DH5\_Ant1\_High\_2480



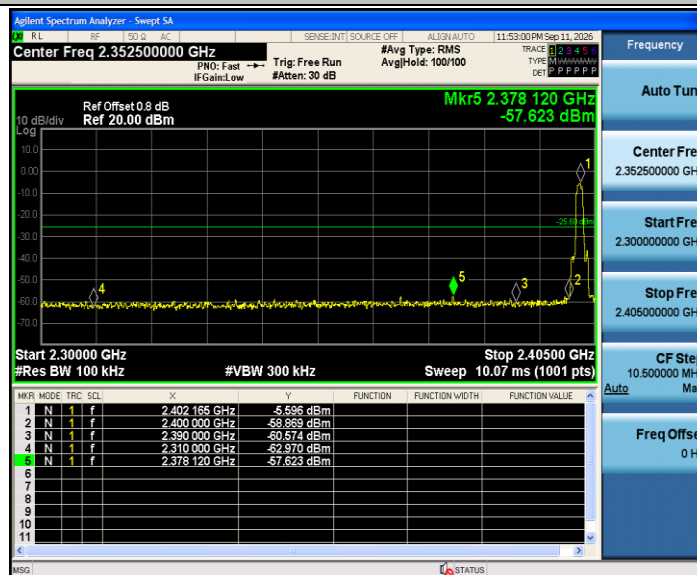
## 2DH5\_Ant1\_Low\_Hop\_2402



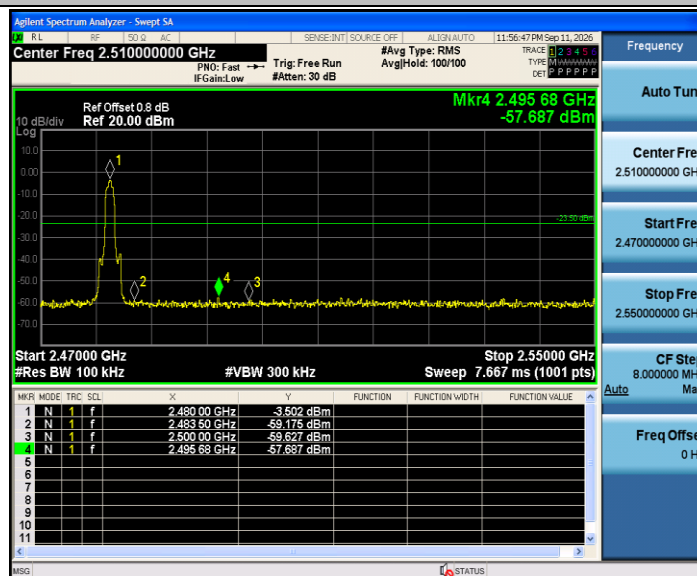
## 2DH5\_Ant1\_High\_Hop\_2480



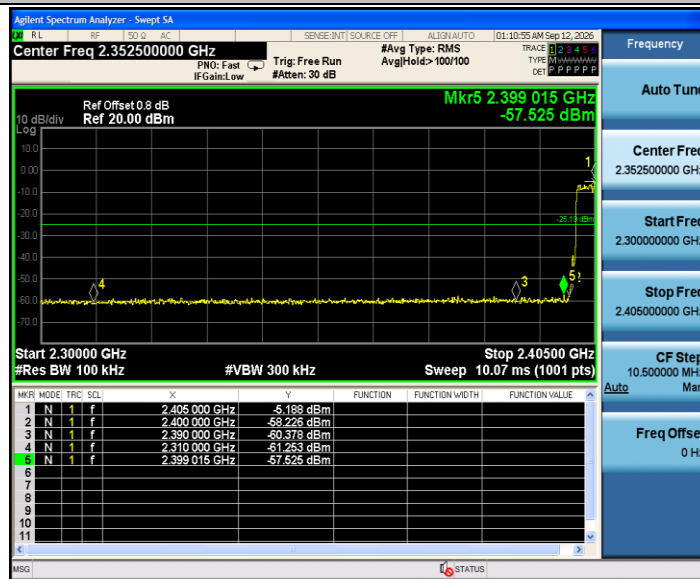
3DH5\_Ant1\_Low\_2402



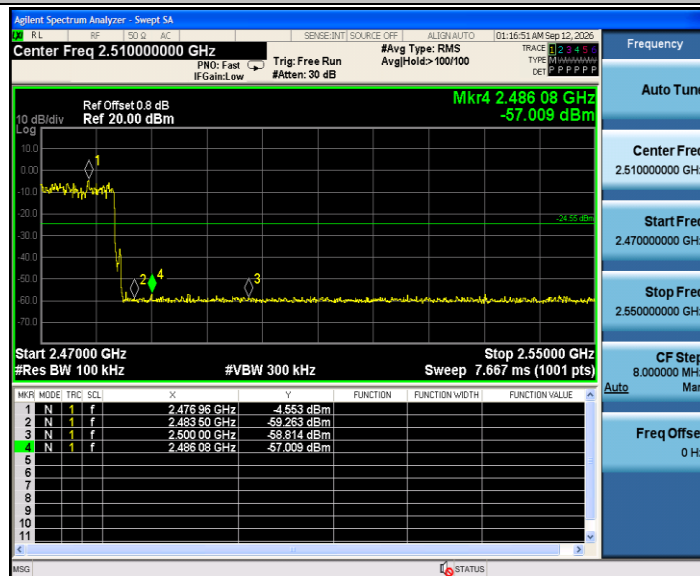
3DH5\_Ant1\_High\_2480



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



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



## Appendix H: Conducted Spurious Emission

### Test Result

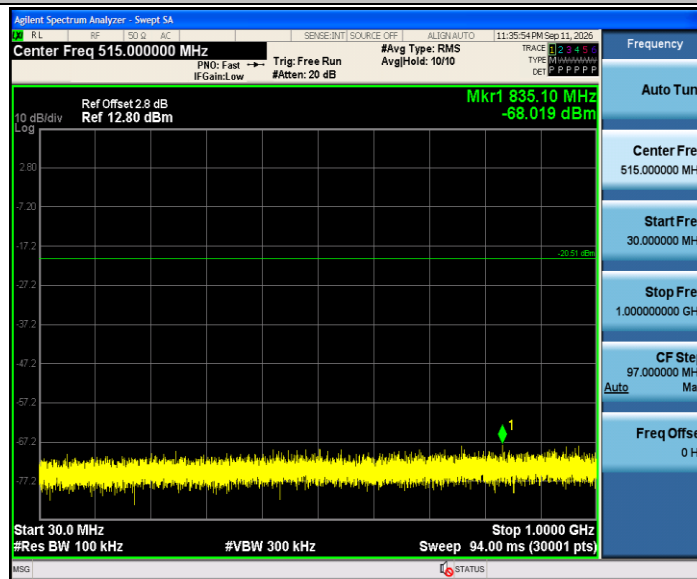
| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402      | Reference       | -0.51          | -0.51        | ---         | PASS    |
|          |         |           | 30~1000         | -0.51          | -68.02       | ≤-20.51     | PASS    |
|          |         |           | 1000~26500      | -0.51          | -39.57       | ≤-20.51     | PASS    |
|          |         | 2441      | Reference       | -0.45          | -0.45        | ---         | PASS    |
|          |         |           | 30~1000         | -0.45          | -68.34       | ≤-20.45     | PASS    |
|          |         |           | 1000~26500      | -0.45          | -42.62       | ≤-20.45     | PASS    |
|          |         | 2480      | Reference       | -1.16          | -1.16        | ---         | PASS    |
|          |         |           | 30~1000         | -1.16          | -68.32       | ≤-21.16     | PASS    |
|          |         |           | 1000~26500      | -1.16          | -41.31       | ≤-21.16     | PASS    |
| 2DH5     | Ant1    | 2402      | Reference       | -4.41          | -4.41        | ---         | PASS    |
|          |         |           | 30~1000         | -60.59         | -68.73       | ≤-80.59     | FAIL    |
|          |         |           | 1000~26500      | -60.59         | -46.09       | ≤-80.59     | FAIL    |
|          |         | 2441      | Reference       | -5.43          | -5.43        | ---         | PASS    |
|          |         |           | 30~1000         | -5.43          | -68.64       | ≤-25.43     | PASS    |
|          |         |           | 1000~26500      | -5.43          | -46.33       | ≤-25.43     | PASS    |
|          |         | 2480      | Reference       | -3.40          | -3.40        | ---         | PASS    |
|          |         |           | 30~1000         | -3.40          | -62.31       | ≤-23.4      | PASS    |
|          |         |           | 1000~26500      | -3.40          | -46.01       | ≤-23.4      | PASS    |
| 3DH5     | Ant1    | 2402      | Reference       | -5.39          | -5.39        | ---         | PASS    |
|          |         |           | 30~1000         | -5.39          | -60.2        | ≤-25.39     | PASS    |
|          |         |           | 1000~26500      | -5.39          | -46.3        | ≤-25.39     | PASS    |
|          |         | 2441      | Reference       | -6.09          | -6.09        | ---         | PASS    |
|          |         |           | 30~1000         | -6.09          | -68.16       | ≤-26.09     | PASS    |
|          |         |           | 1000~26500      | -6.09          | -45.44       | ≤-26.09     | PASS    |
|          |         | 2480      | Reference       | -3.39          | -3.39        | ---         | PASS    |
|          |         |           | 30~1000         | -3.39          | -67.93       | ≤-23.39     | PASS    |
|          |         |           | 1000~26500      | -3.39          | -46.3        | ≤-23.39     | PASS    |

## Test Graphs

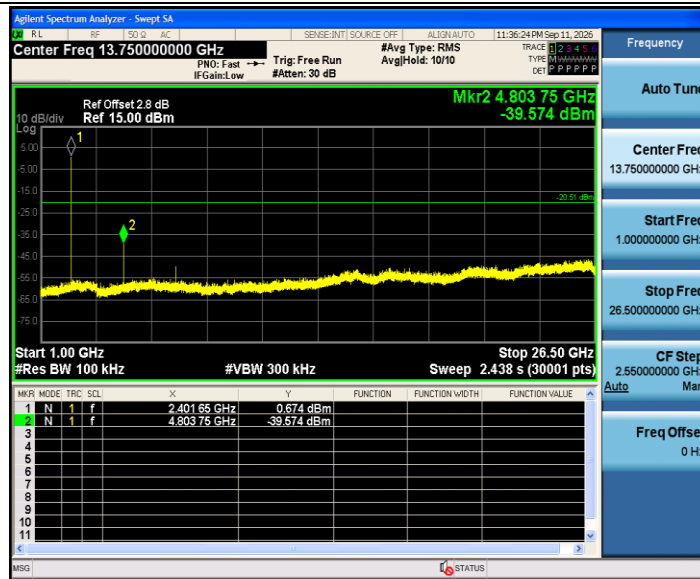
DH5\_Ant1\_2402\_0~Reference



DH5\_Ant1\_2402\_30~1000



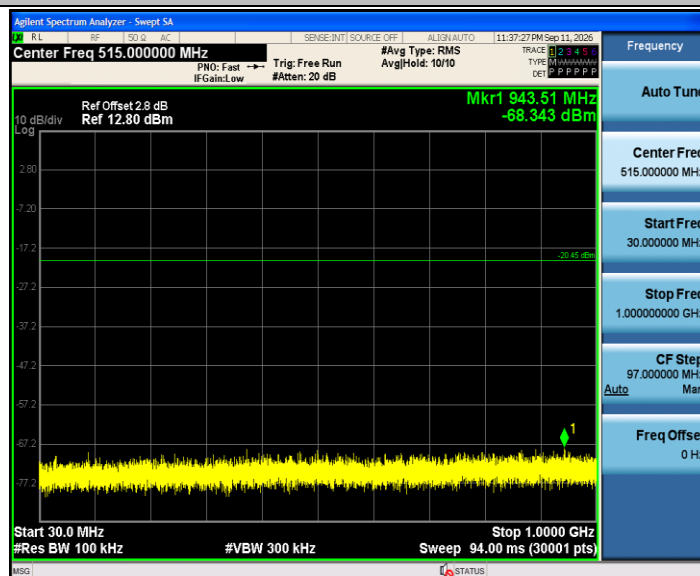
DH5\_Ant1\_2402\_1000~26500



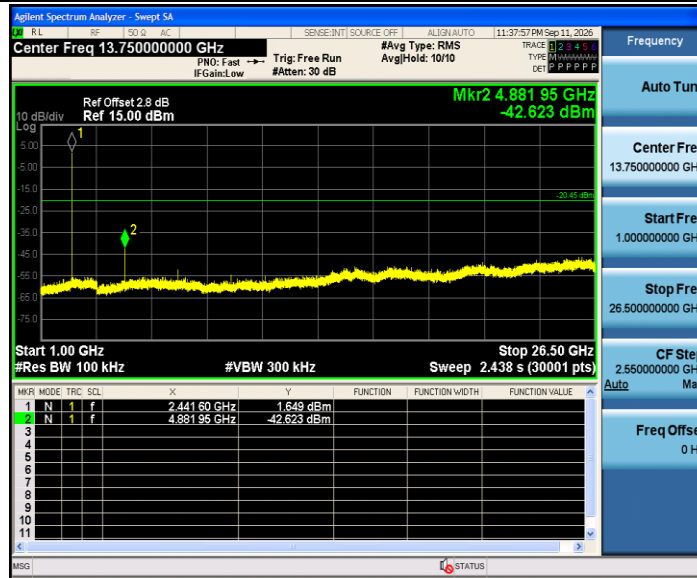
DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



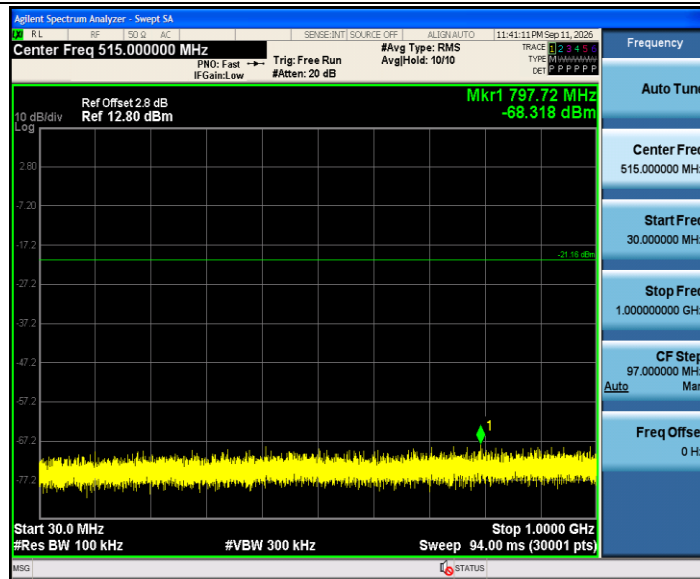
# DH5\_Ant1\_2441\_1000~26500



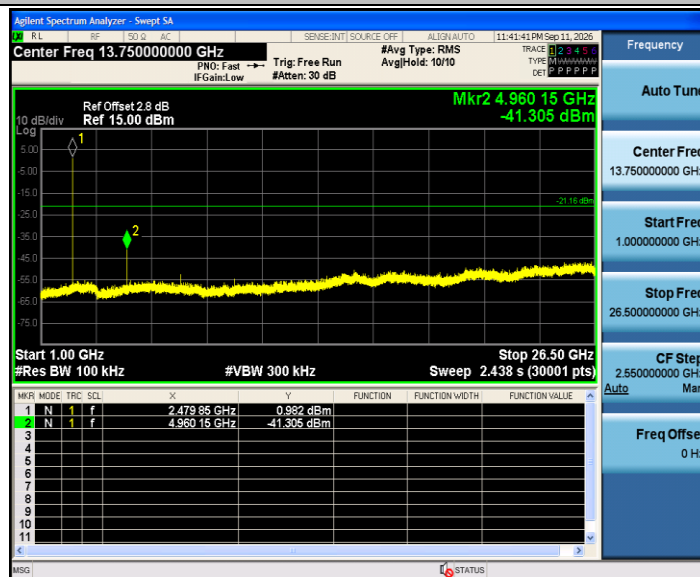
# DH5\_Ant1\_2480\_0~Reference



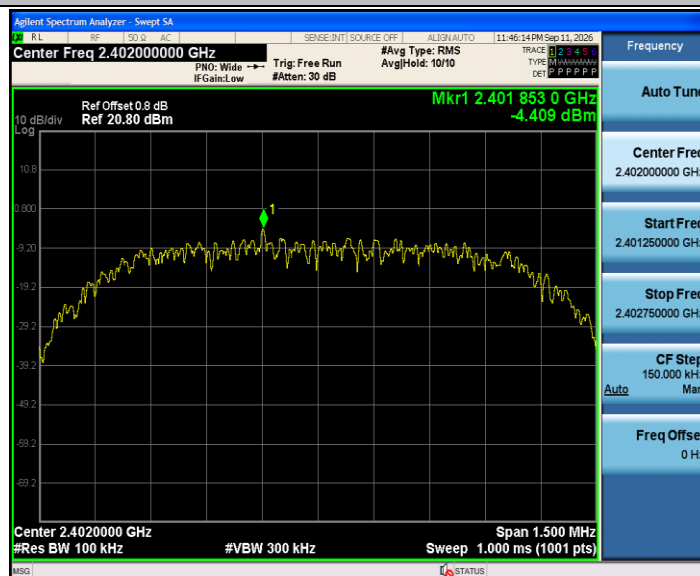
# DH5\_Ant1\_2480\_30~1000



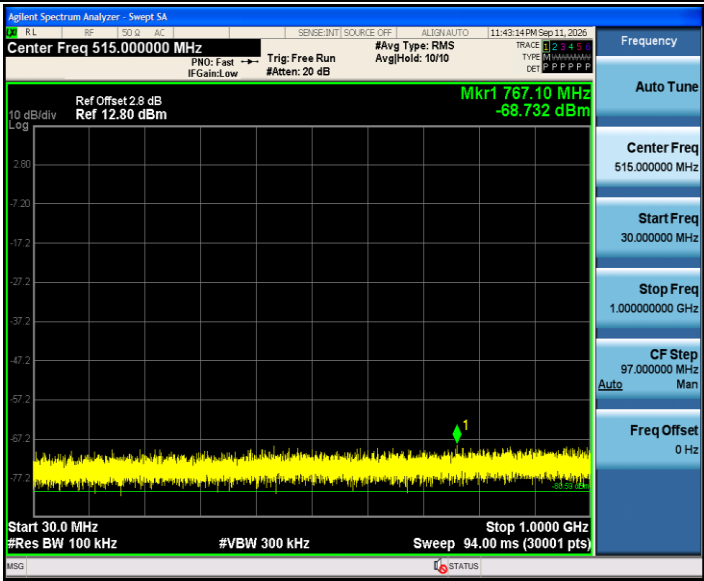
DH5\_Ant1\_2480\_1000~26500



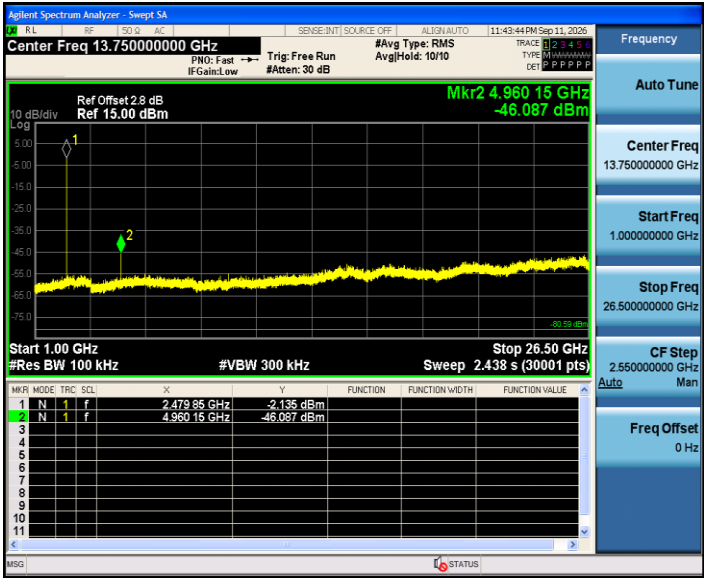
2DH5\_Ant1\_2402\_0~Reference



2DH5\_Ant1\_2402\_30~1000



2DH5\_Ant1\_2402\_1000~26500



2DH5\_Ant1\_2441\_0~Reference