

## Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Wireless Microphone

Trade Mark: singing machine

Test Model: MIC294

FCC ID: 2AAXO-MIC294B

### Environmental Conditions

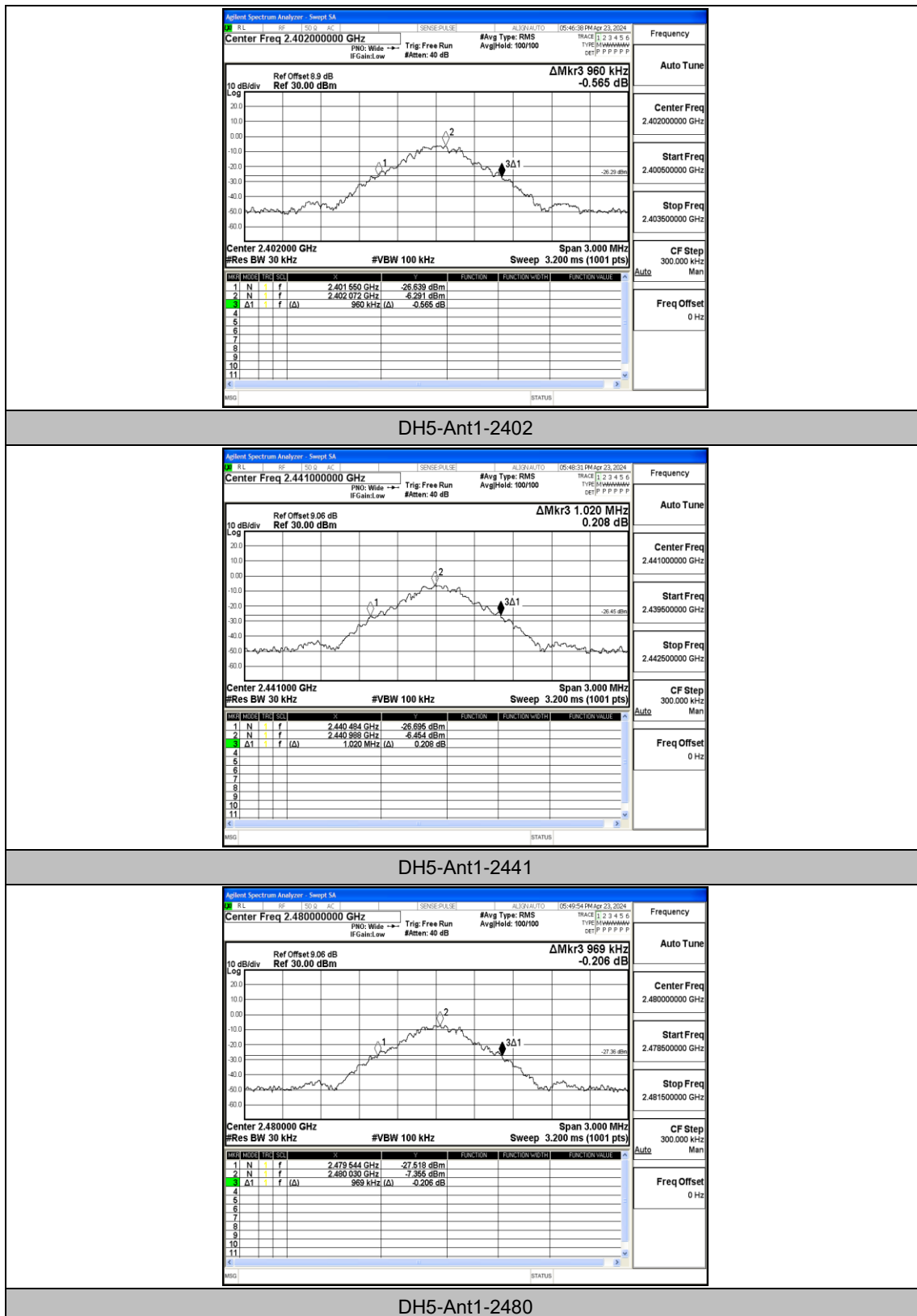
|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8℃     |
| Relative Humidity: | 58%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

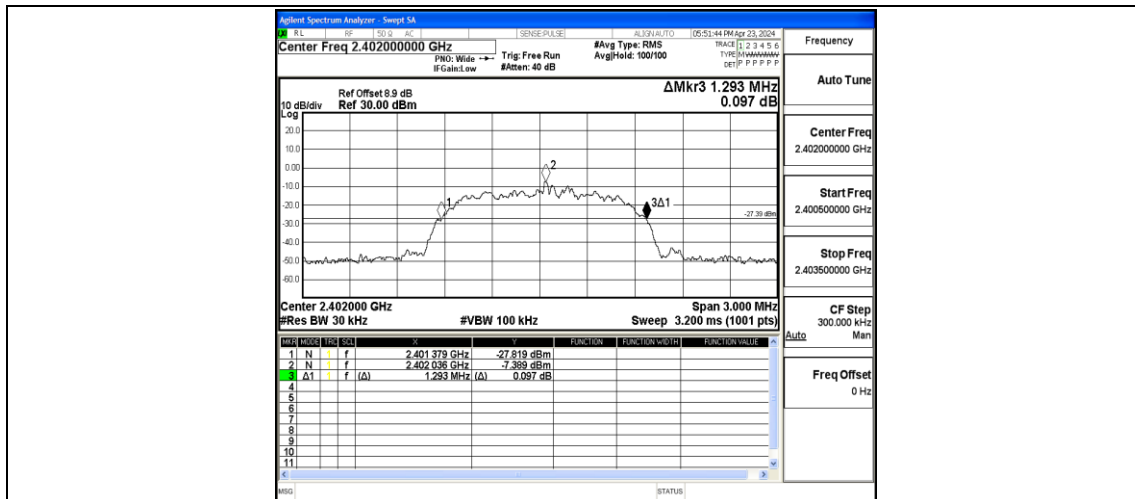
## Appendix A: 20dB Emission Bandwidth

### Test Result

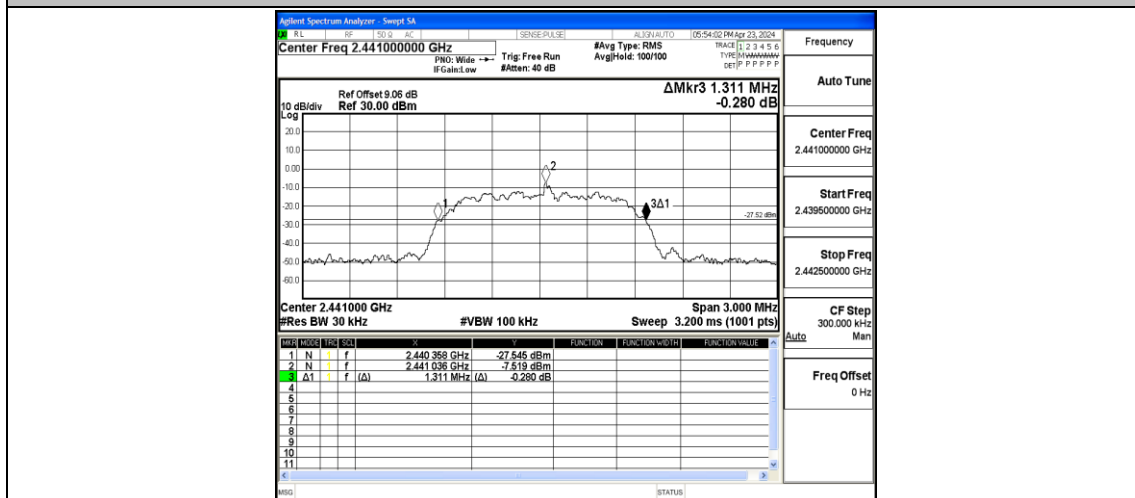
| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.960            | 2401.550 | 2402.510 | ---        | ---     |
| DH5      | Ant1    | 2441           | 1.020            | 2440.484 | 2441.504 | ---        | ---     |
| DH5      | Ant1    | 2480           | 0.969            | 2479.544 | 2480.513 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.293            | 2401.379 | 2402.672 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.311            | 2440.358 | 2441.669 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.281            | 2479.382 | 2480.663 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.314            | 2401.361 | 2402.675 | ---        | ---     |
| 3DH5     | Ant1    | 2441           | 1.311            | 2440.361 | 2441.672 | ---        | ---     |
| 3DH5     | Ant1    | 2480           | 1.299            | 2479.364 | 2480.663 | ---        | ---     |

## Test Graphs

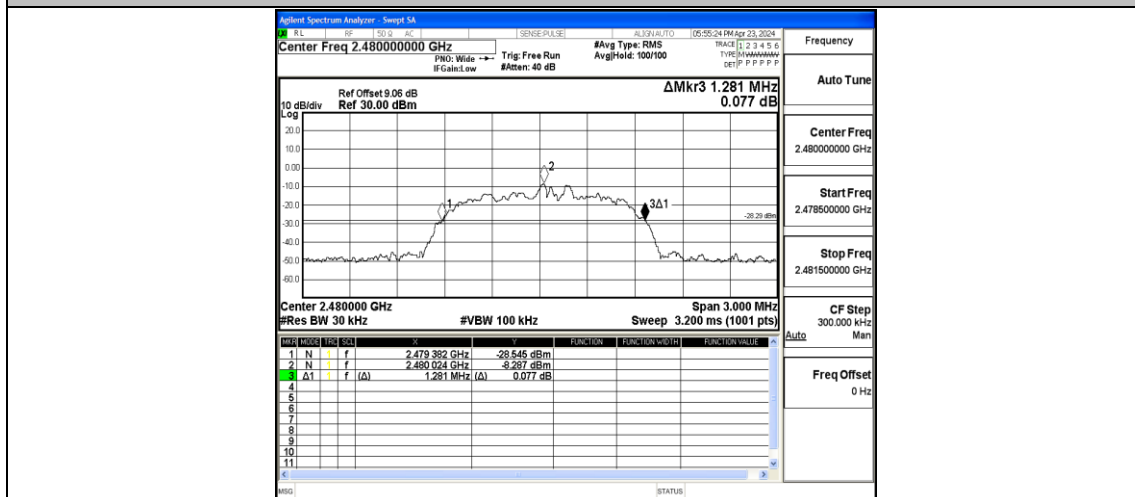




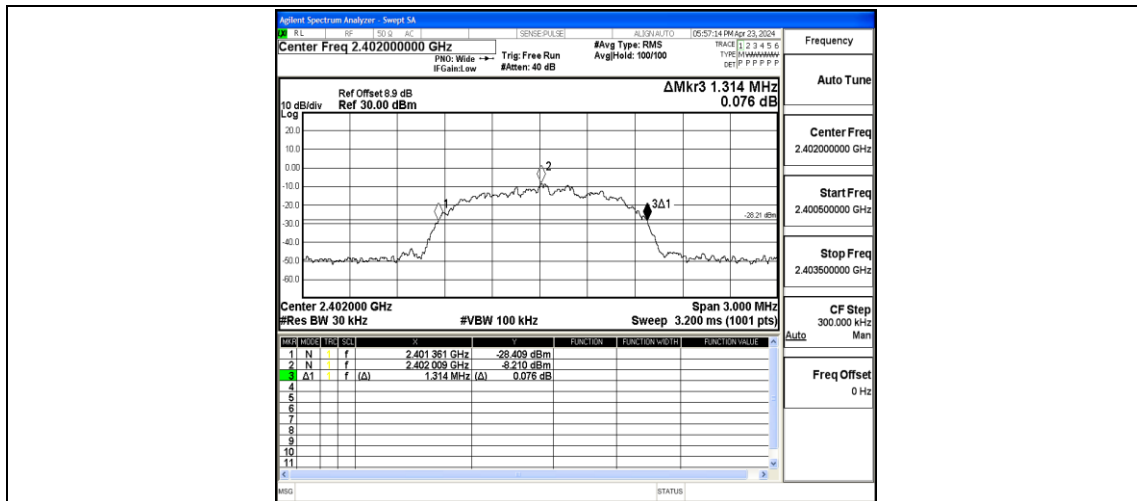
2DH5-Ant1-2402



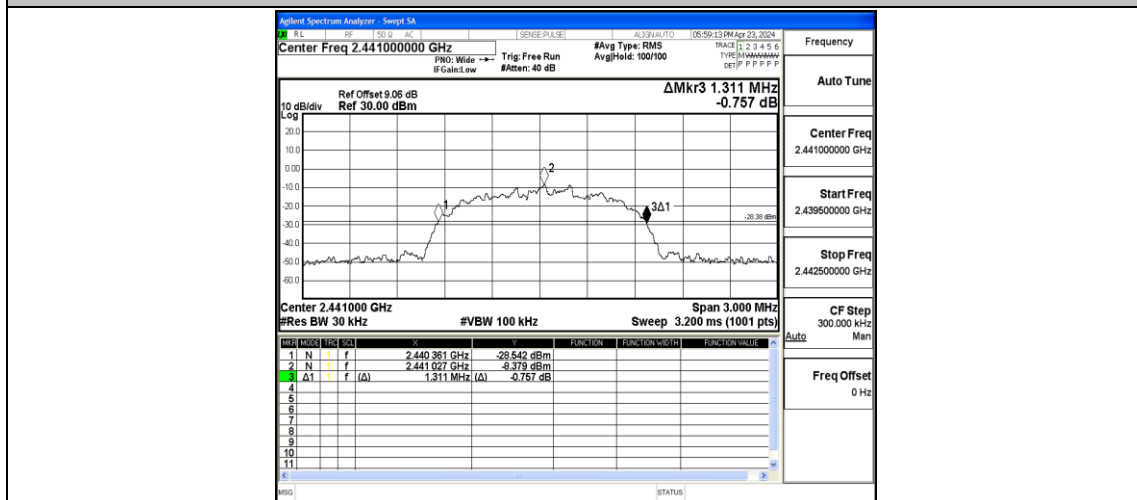
2DH5-Ant1-2441



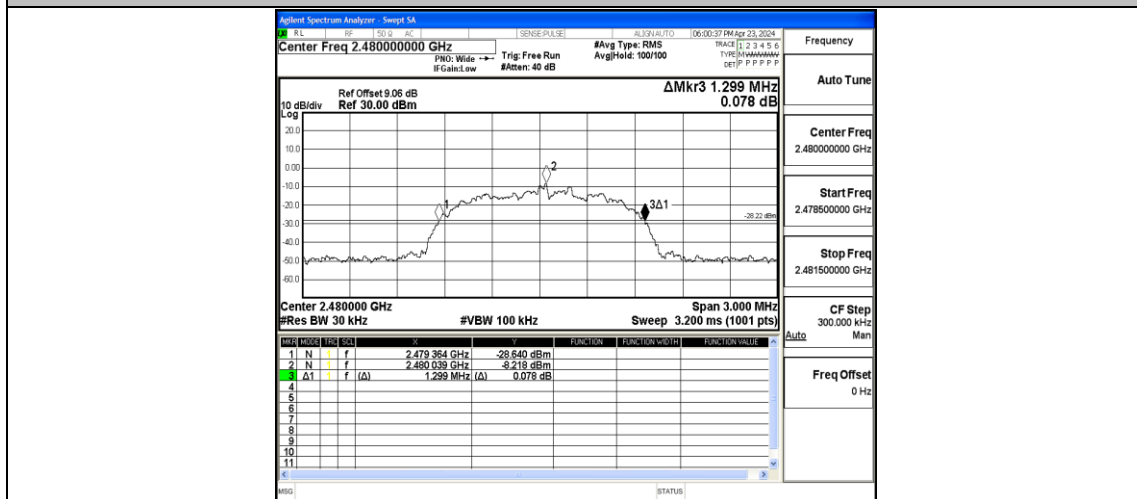
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



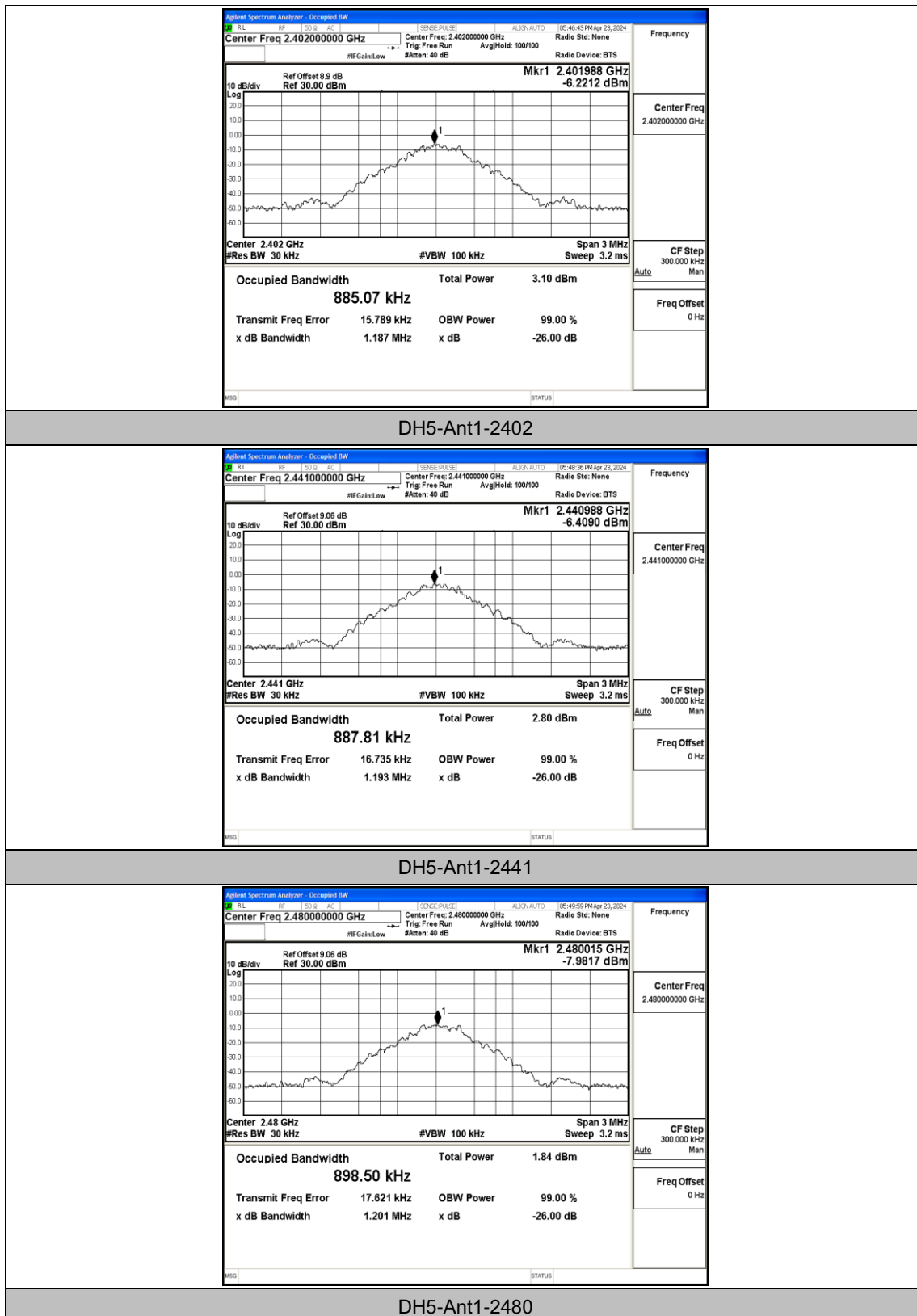
3DH5-Ant1-2480

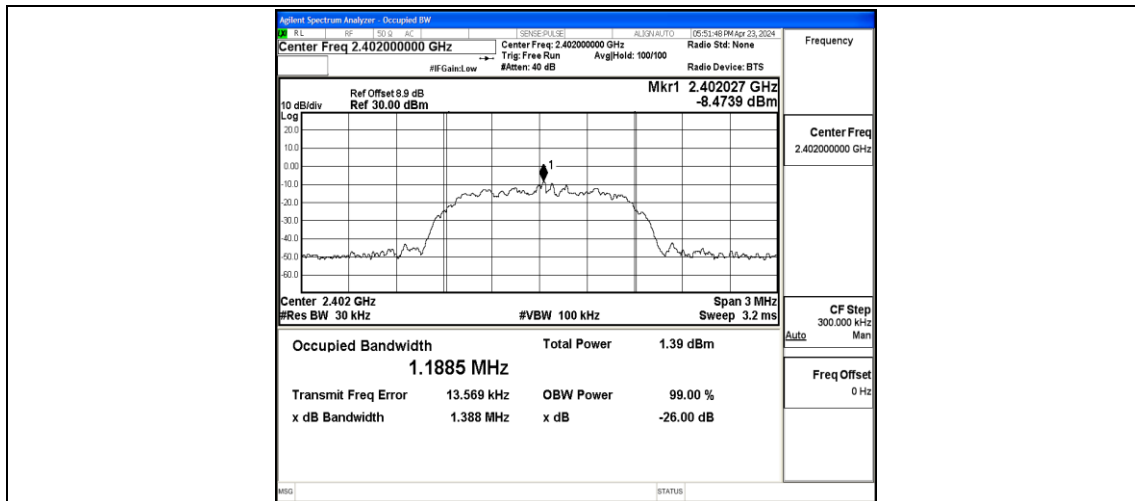
## Appendix B: Occupied Channel Bandwidth

### Test Result

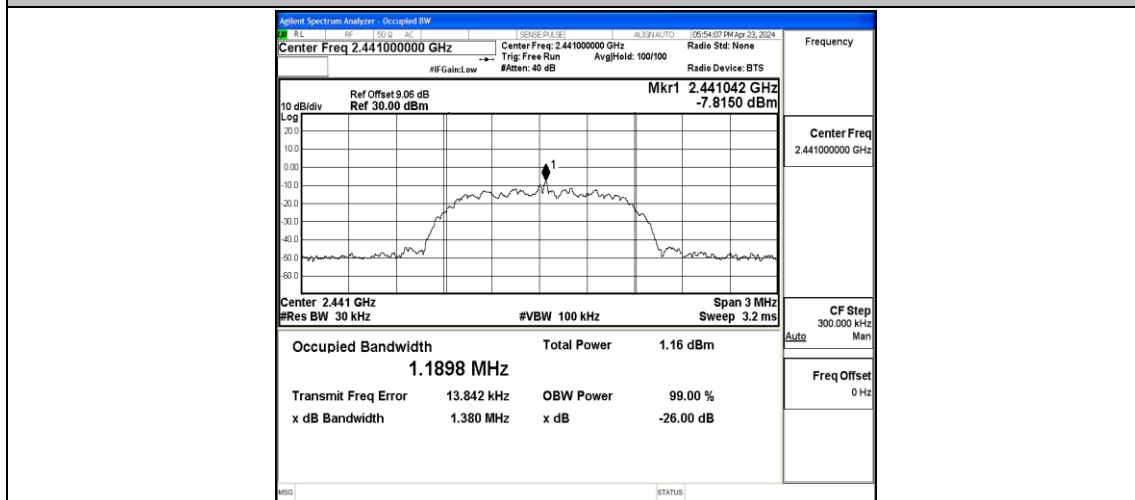
| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.88507   | 2401.5733 | 2402.4583 | ---        | ---     |
| DH5      | Ant1    | 2441           | 0.88781   | 2440.5728 | 2441.4606 | ---        | ---     |
| DH5      | Ant1    | 2480           | 0.89850   | 2479.5684 | 2480.4669 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.1885    | 2401.4193 | 2402.6078 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.1898    | 2440.4189 | 2441.6087 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.1953    | 2479.4162 | 2480.6115 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.1824    | 2401.4218 | 2402.6042 | ---        | ---     |
| 3DH5     | Ant1    | 2441           | 1.1791    | 2440.4246 | 2441.6037 | ---        | ---     |
| 3DH5     | Ant1    | 2480           | 1.1990    | 2479.4142 | 2480.6132 | ---        | ---     |

## Test Graphs

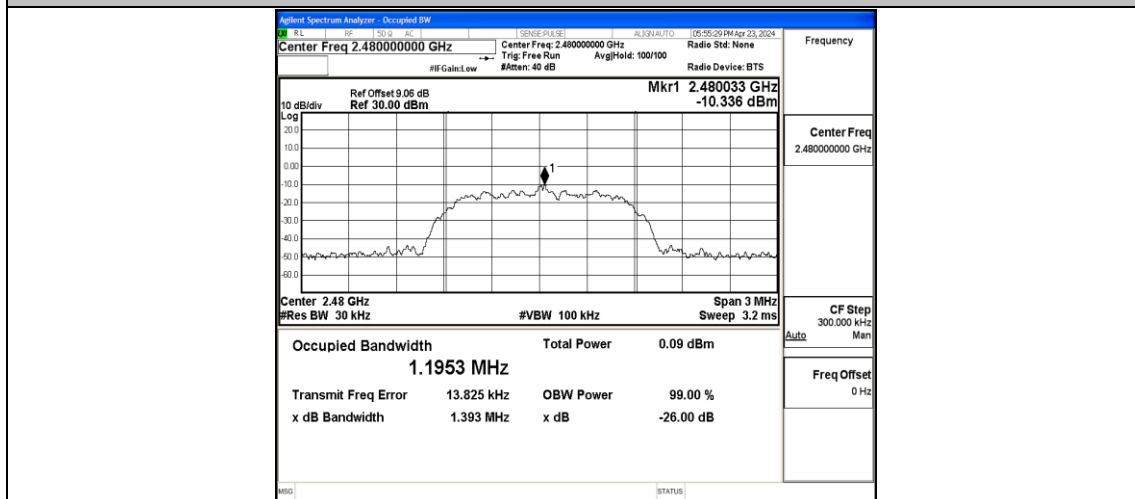




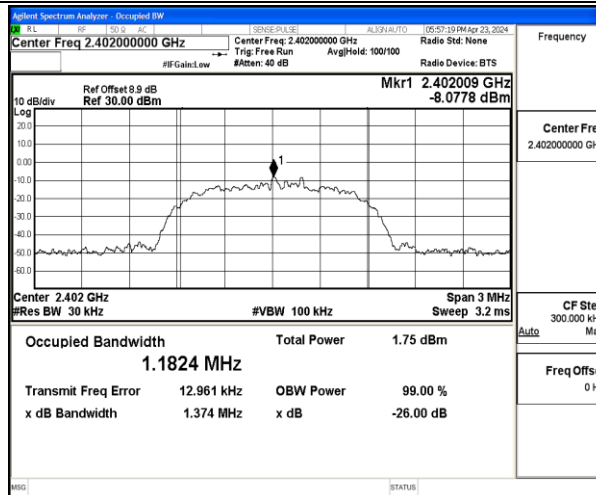
2DH5-Ant1-2402



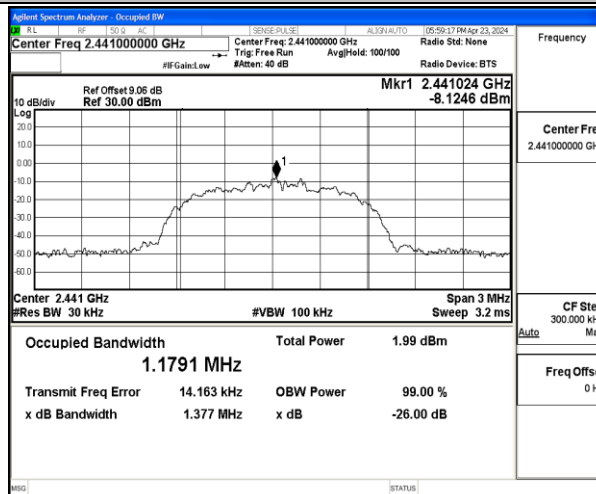
2DH5-Ant1-2441



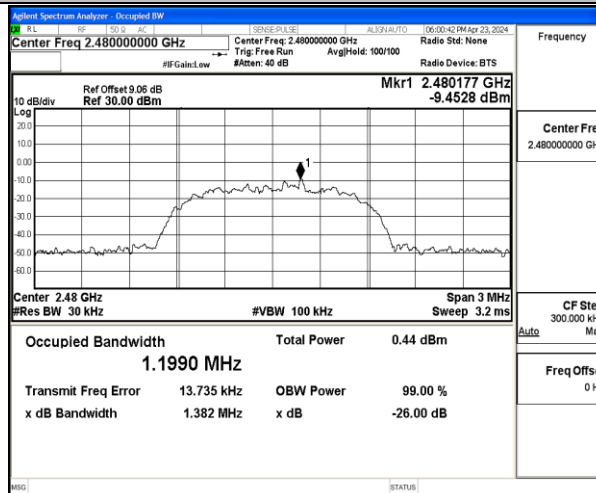
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



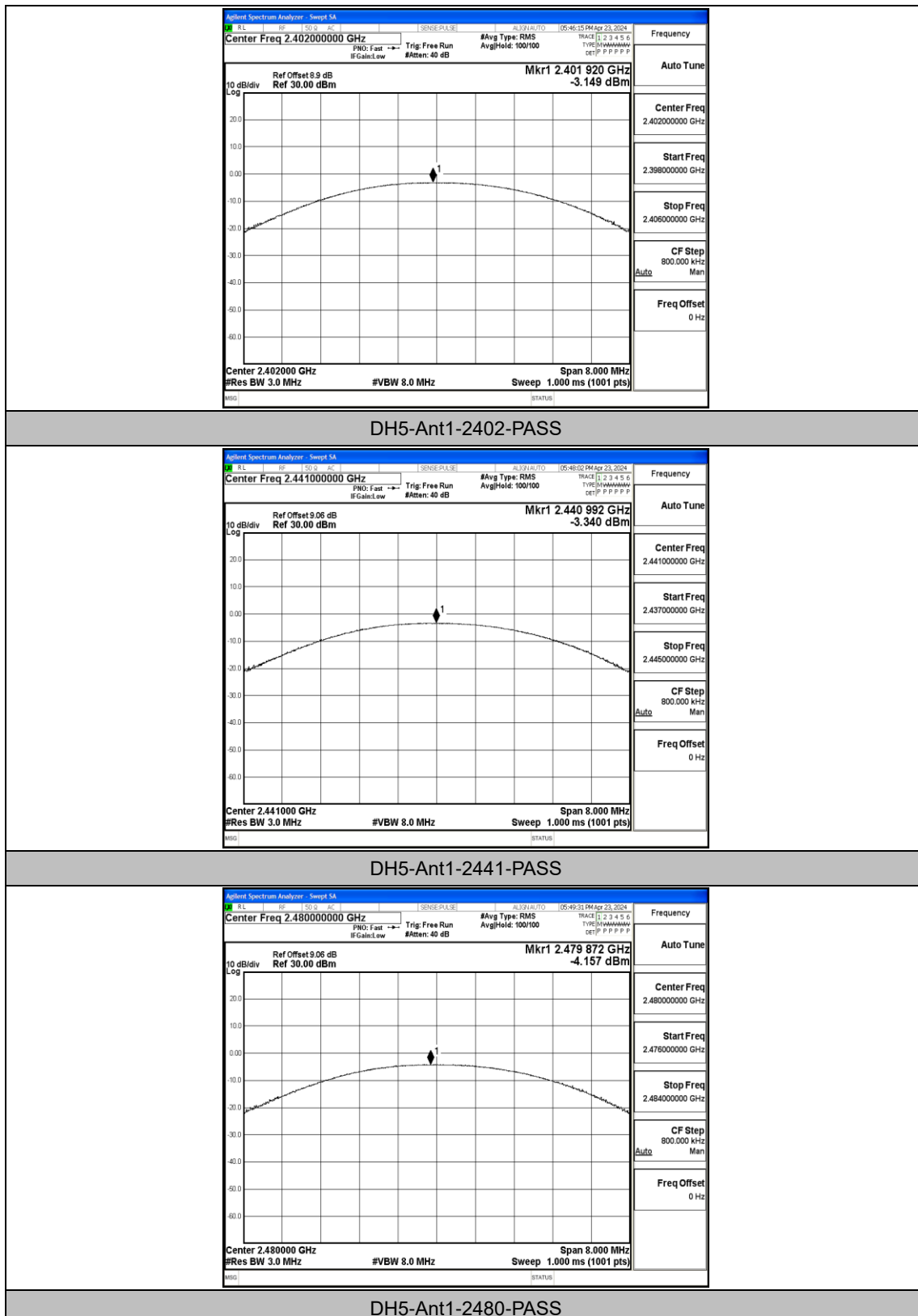
3DH5-Ant1-2480

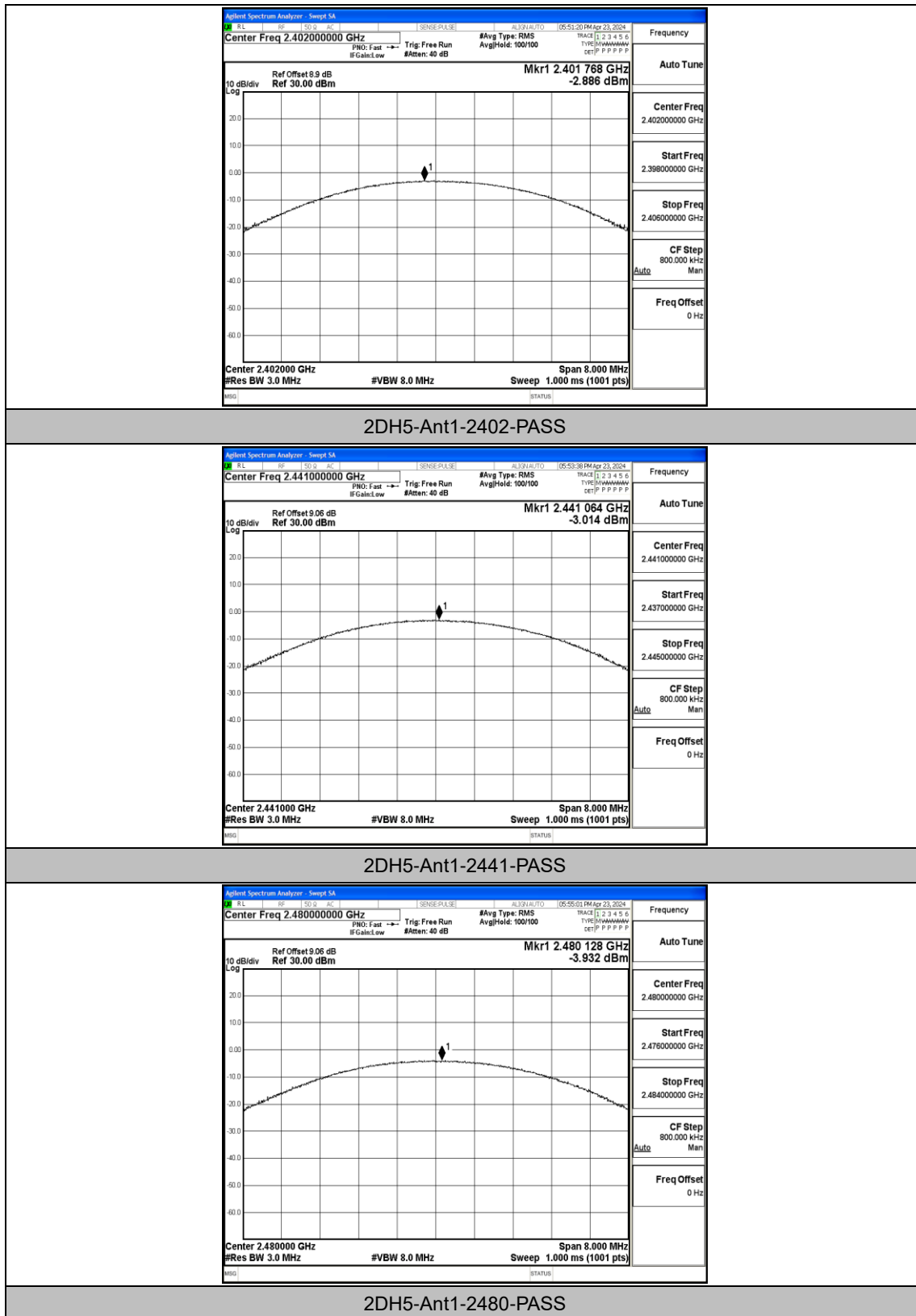
## Appendix C: Maximum peak conducted output power

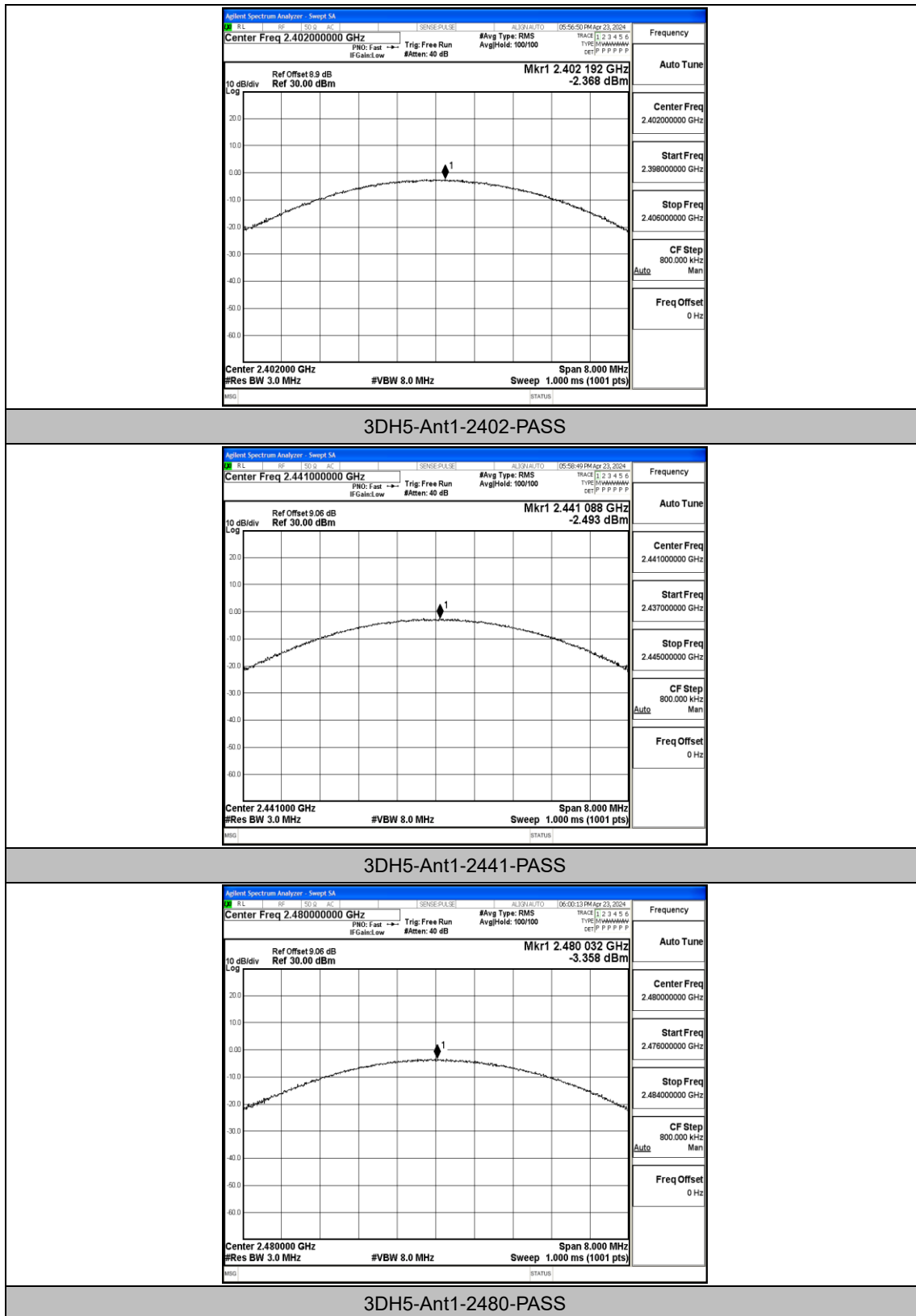
### Test Result

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402           | -3.15                     | ≤30                  | PASS    |
| DH5       | Ant1    | 2441           | -3.34                     | ≤30                  | PASS    |
| DH5       | Ant1    | 2480           | -4.16                     | ≤30                  | PASS    |
| 2DH5      | Ant1    | 2402           | -2.89                     | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2441           | -3.01                     | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2480           | -3.93                     | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2402           | -2.37                     | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2441           | -2.49                     | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2480           | -3.36                     | ≤20.97               | PASS    |

## Test Graphs





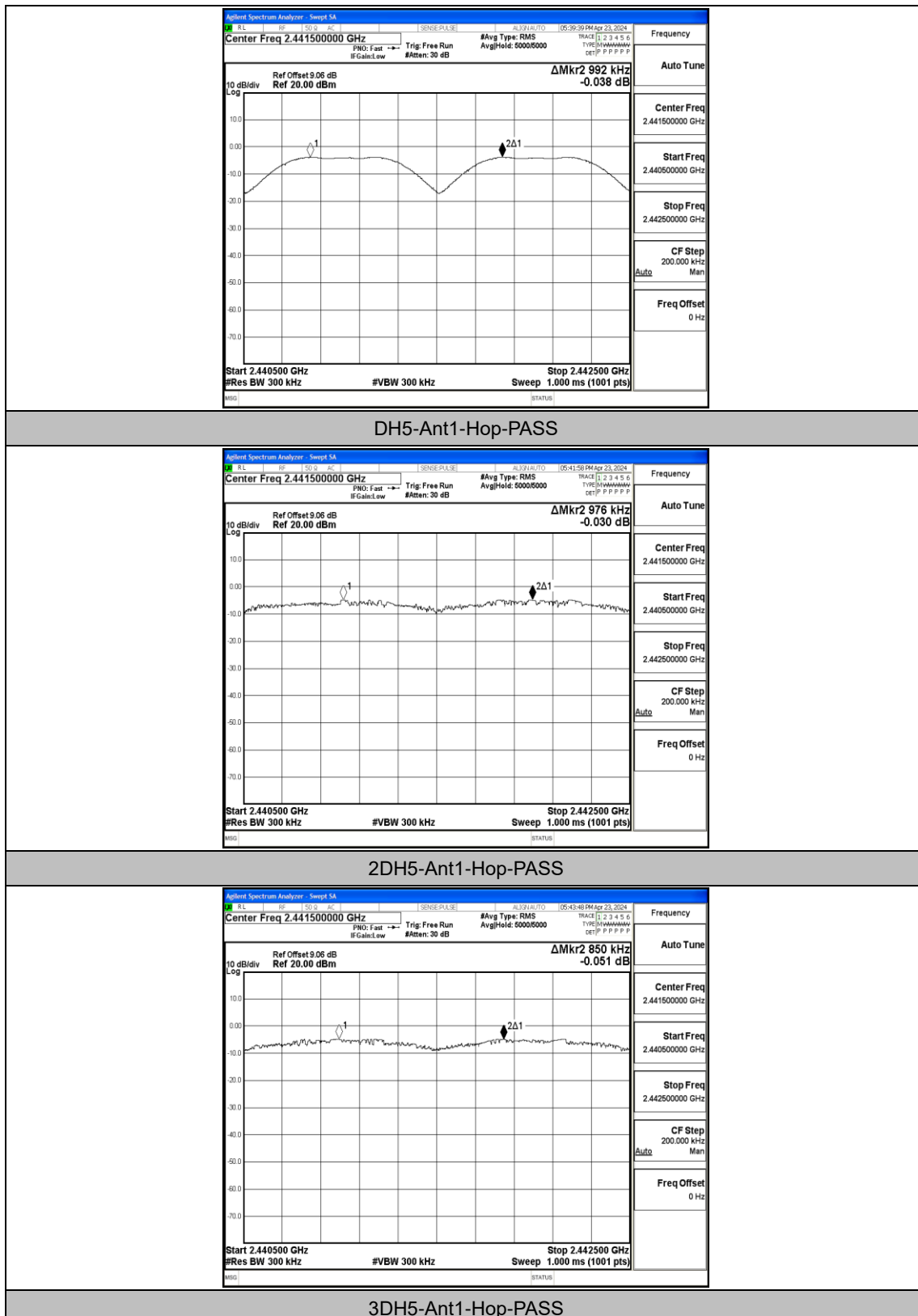


## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|----------------|-------------|--------------|---------|
| DH5      | Ant1    | Hop            | 0.992       | $\geq 0.025$ | PASS    |
| 2DH5     | Ant1    | Hop            | 0.976       | $\geq 0.025$ | PASS    |
| 3DH5     | Ant1    | Hop            | 0.85        | $\geq 0.025$ | PASS    |

## Test Graphs

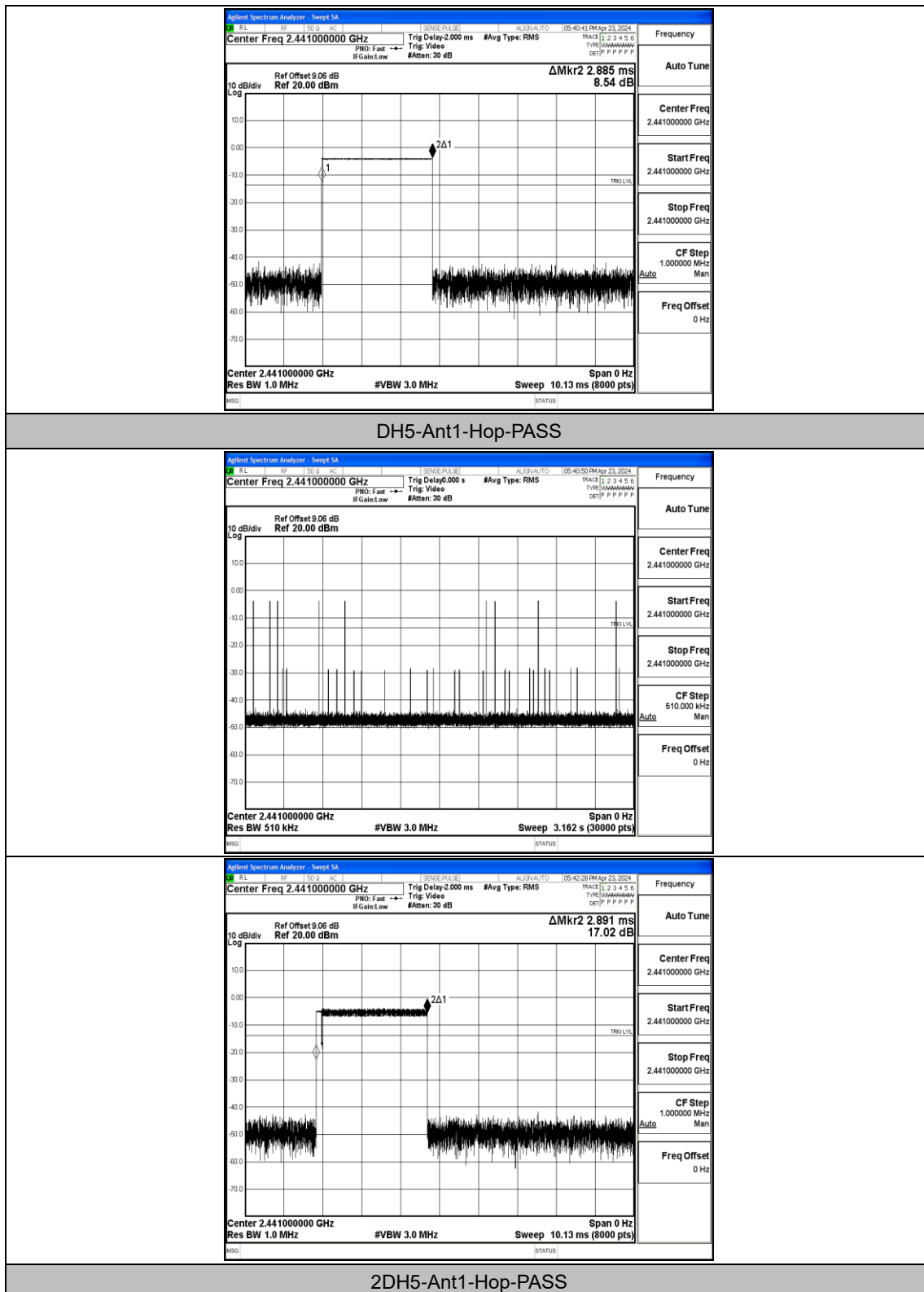


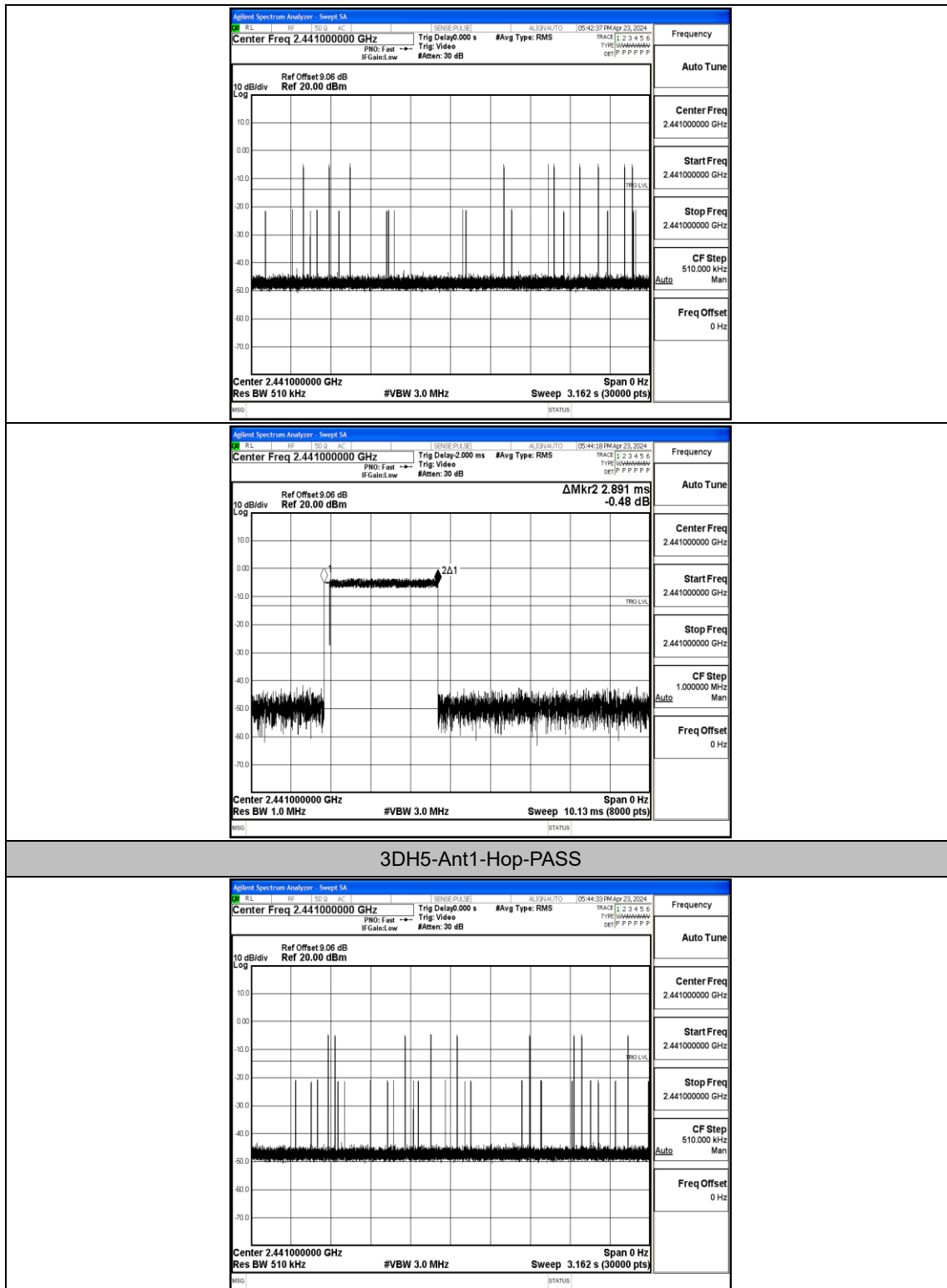
## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop            | 2.885              | 100                | 0.289     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop            | 2.891              | 110                | 0.318     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop            | 2.891              | 100                | 0.289     | ≤0.4     | PASS    |

## Test Graphs



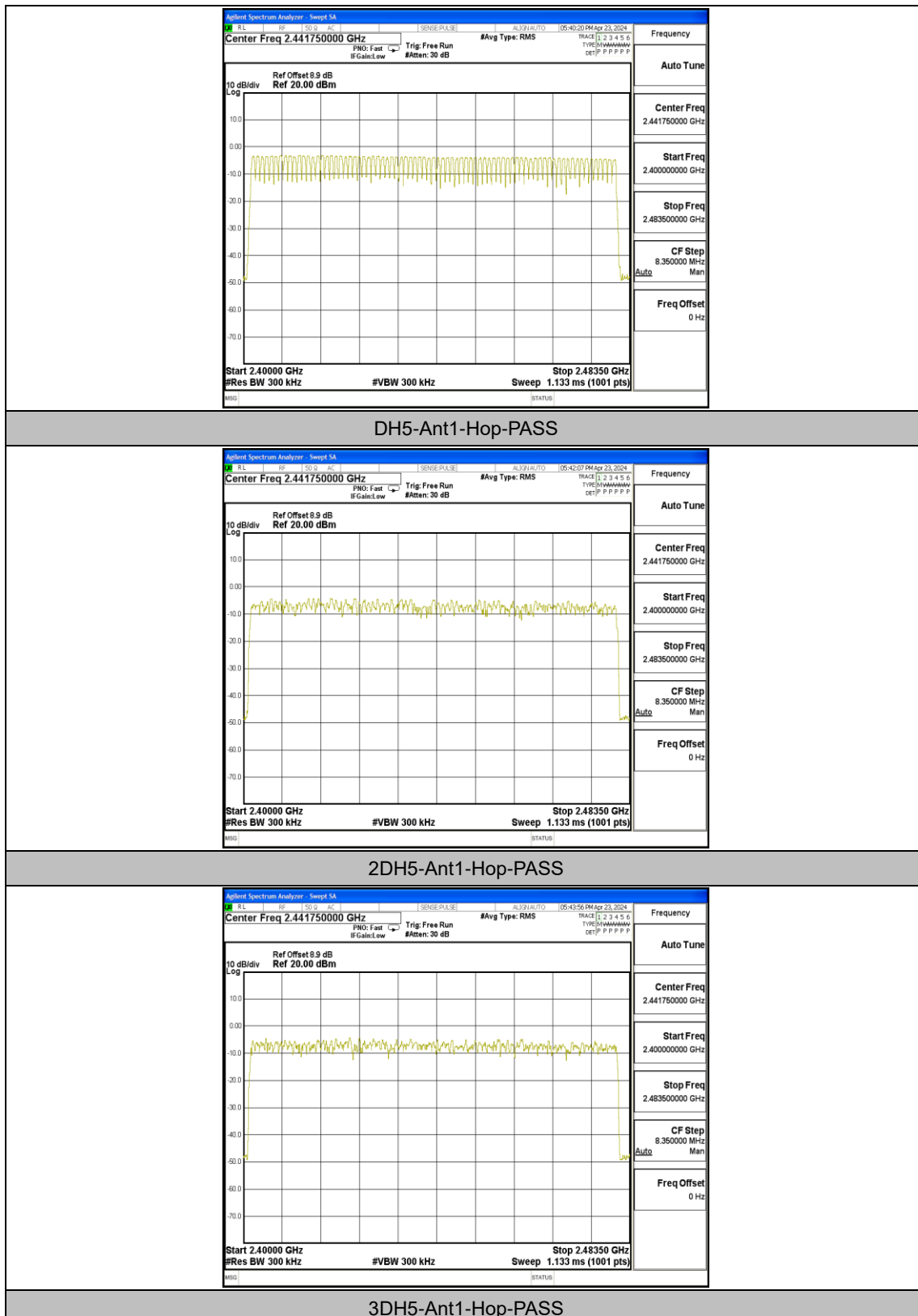


## Appendix F: Number of hopping channels

### 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

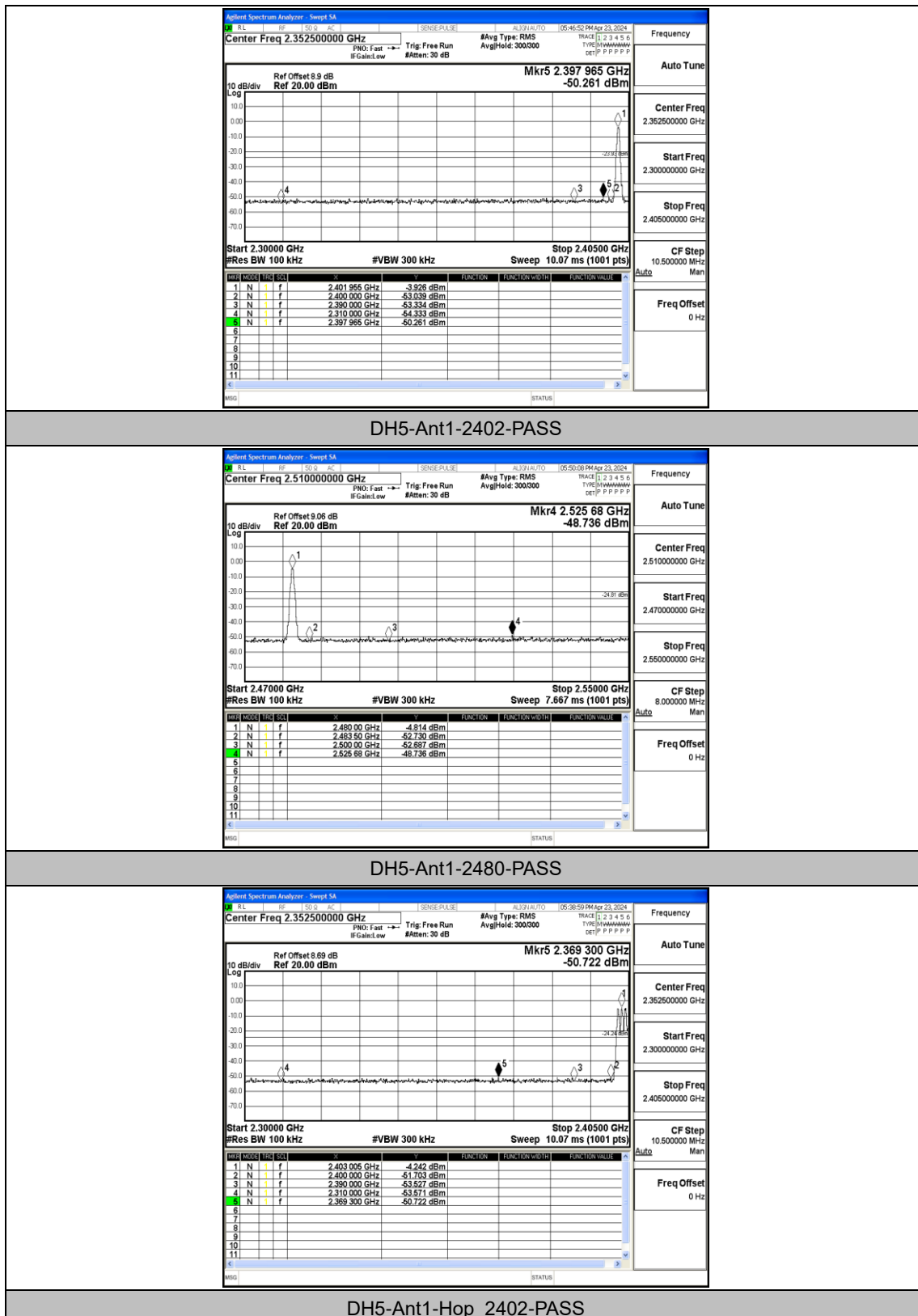


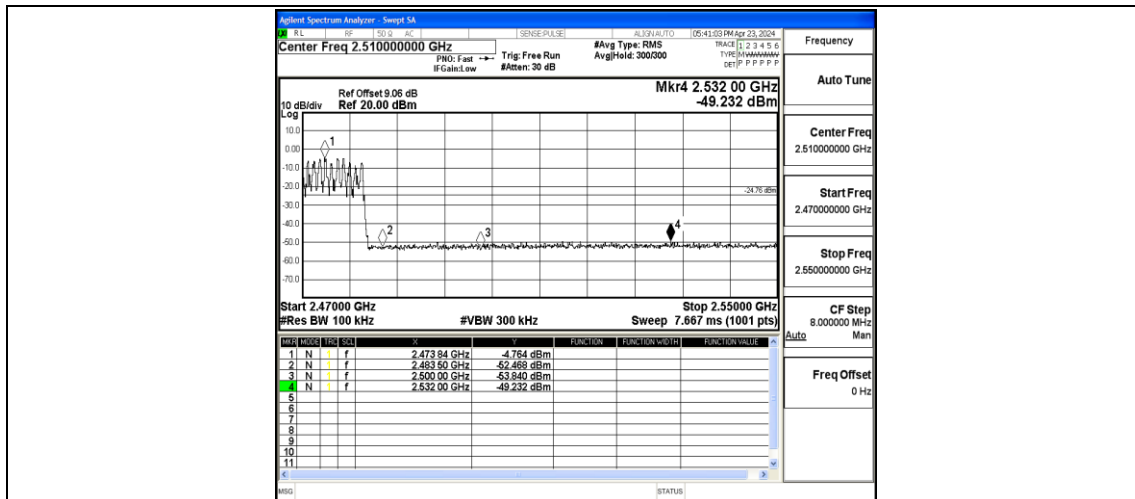
## Appendix G: Band edge measurements

### Test Result

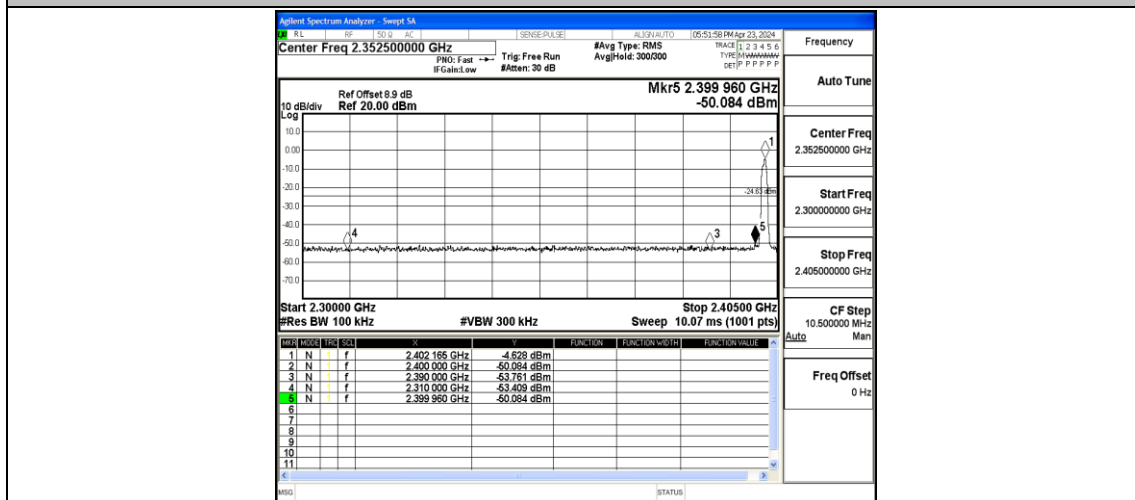
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low    | 2402           | -3.93          | -50.26       | ≤-23.93     | PASS    |
| DH5      | Ant1    | High   | 2480           | -4.81          | -48.74       | ≤-24.81     | PASS    |
| DH5      | Ant1    | Low    | Hop_2402       | -4.24          | -50.72       | ≤-24.24     | PASS    |
| DH5      | Ant1    | High   | Hop_2480       | -4.76          | -49.23       | ≤-24.76     | PASS    |
| 2DH5     | Ant1    | Low    | 2402           | -4.63          | -50.08       | ≤-24.63     | PASS    |
| 2DH5     | Ant1    | High   | 2480           | -6.02          | -48.15       | ≤-26.02     | PASS    |
| 2DH5     | Ant1    | Low    | Hop_2402       | -4.82          | -49.75       | ≤-24.82     | PASS    |
| 2DH5     | Ant1    | High   | Hop_2480       | -8.22          | -48.51       | ≤-28.22     | PASS    |
| 3DH5     | Ant1    | Low    | 2402           | -5.02          | -50.49       | ≤-25.02     | PASS    |
| 3DH5     | Ant1    | High   | 2480           | -5.73          | -49.3        | ≤-25.73     | PASS    |
| 3DH5     | Ant1    | Low    | Hop_2402       | -5.76          | -50.19       | ≤-25.76     | PASS    |
| 3DH5     | Ant1    | High   | Hop_2480       | -5.52          | -49.43       | ≤-25.52     | PASS    |

## Test Graphs

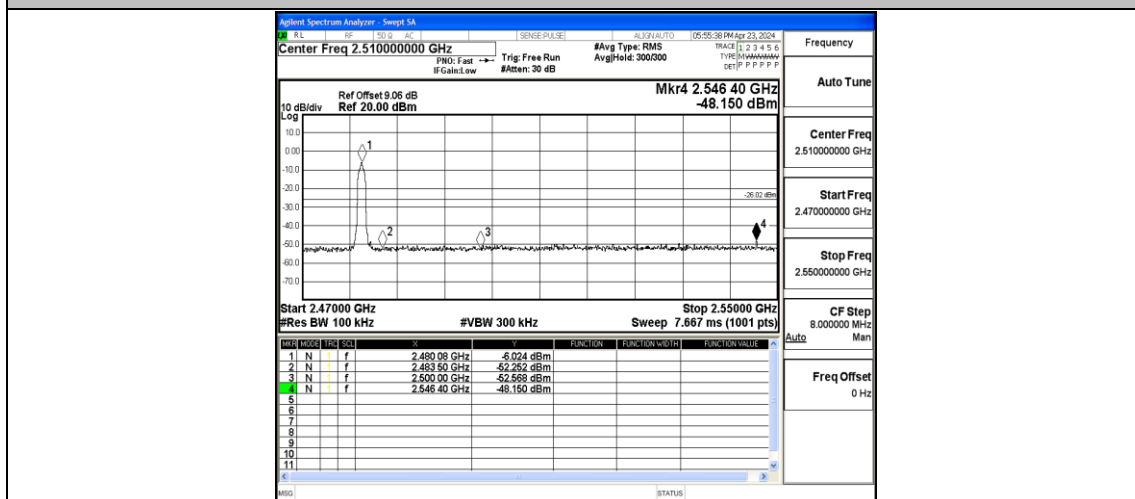




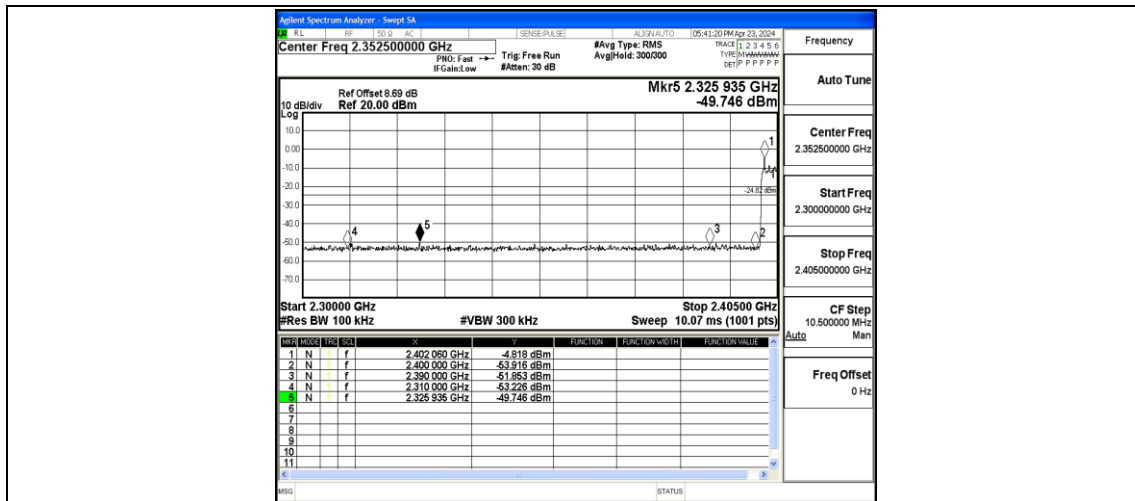
## DH5-Ant1-Hop\_2480-PASS



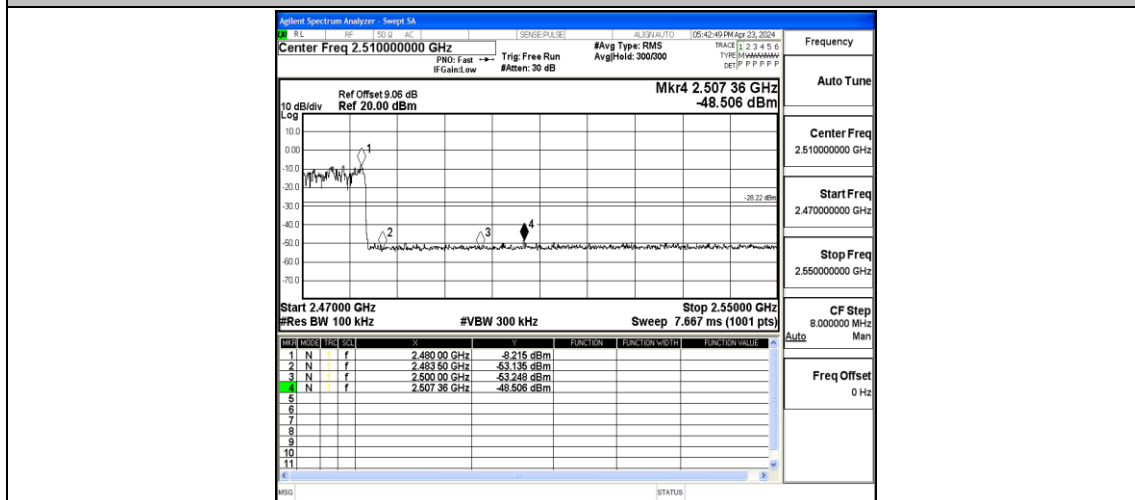
## 2DH5-Ant1-2402-PASS



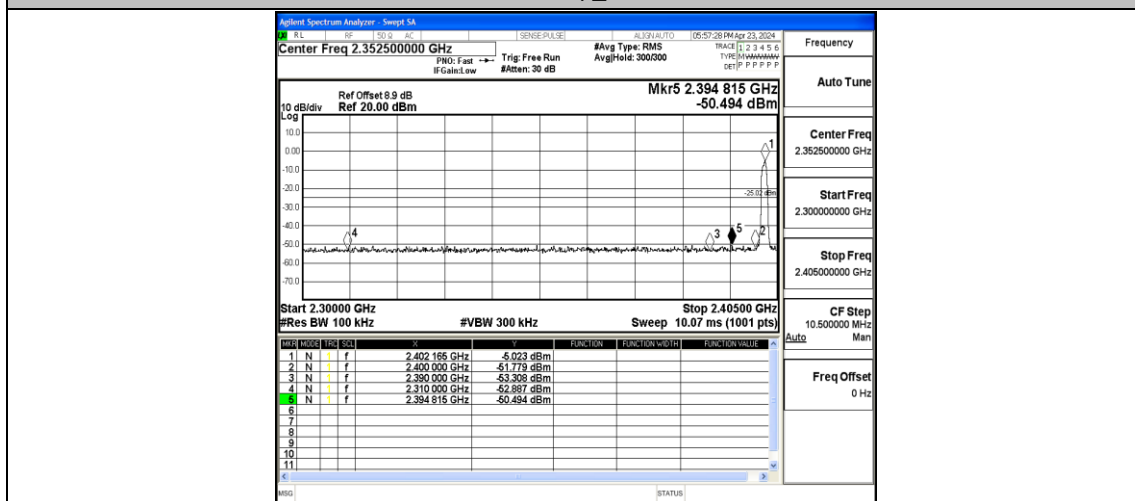
## 2DH5-Ant1-2480-PASS



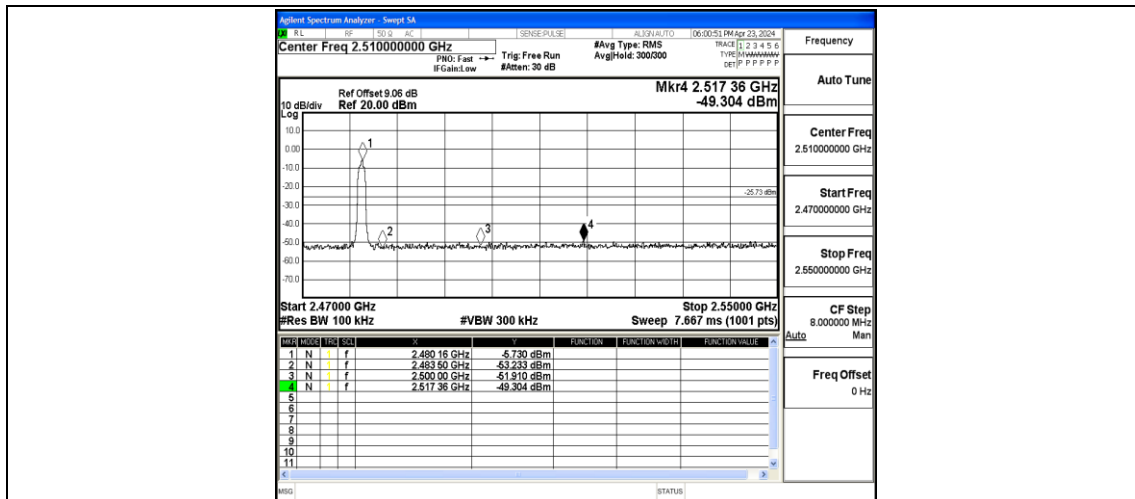
## 2DH5-Ant1-Hop\_2402-PASS



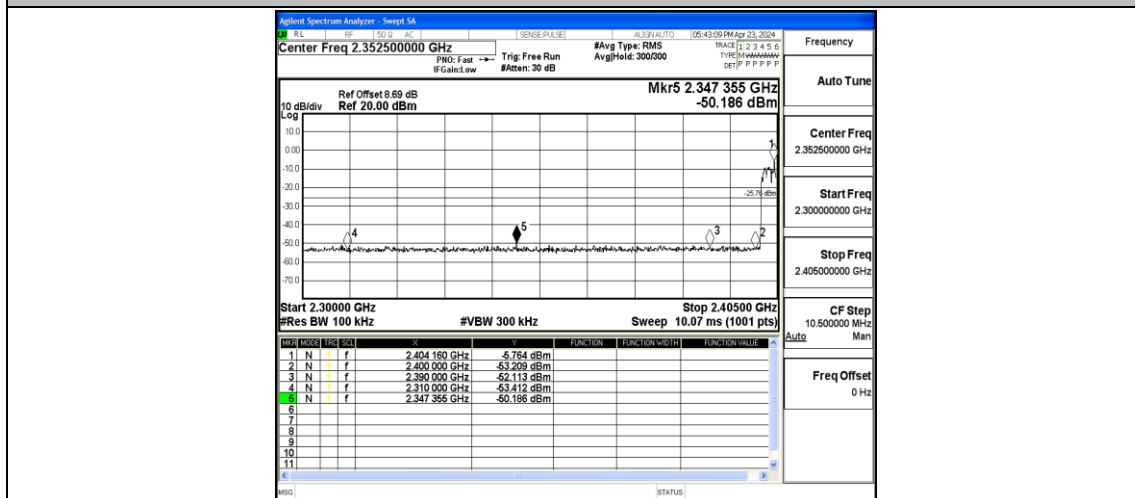
## 2DH5-Ant1-Hop\_2480-PASS



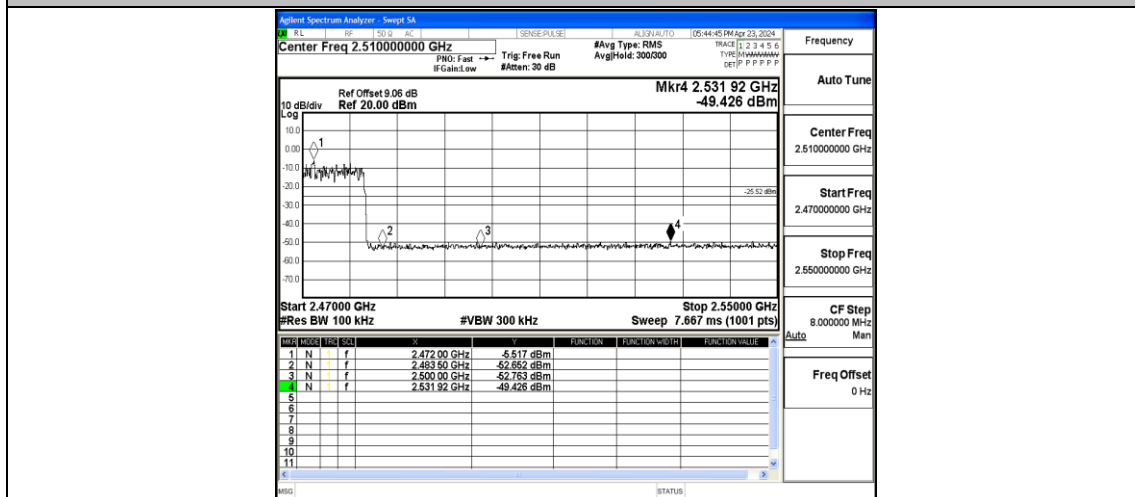
## 3DH5-Ant1-2402-PASS



## 3DH5-Ant1-2480-PASS



## 3DH5-Ant1-Hop\_2402-PASS



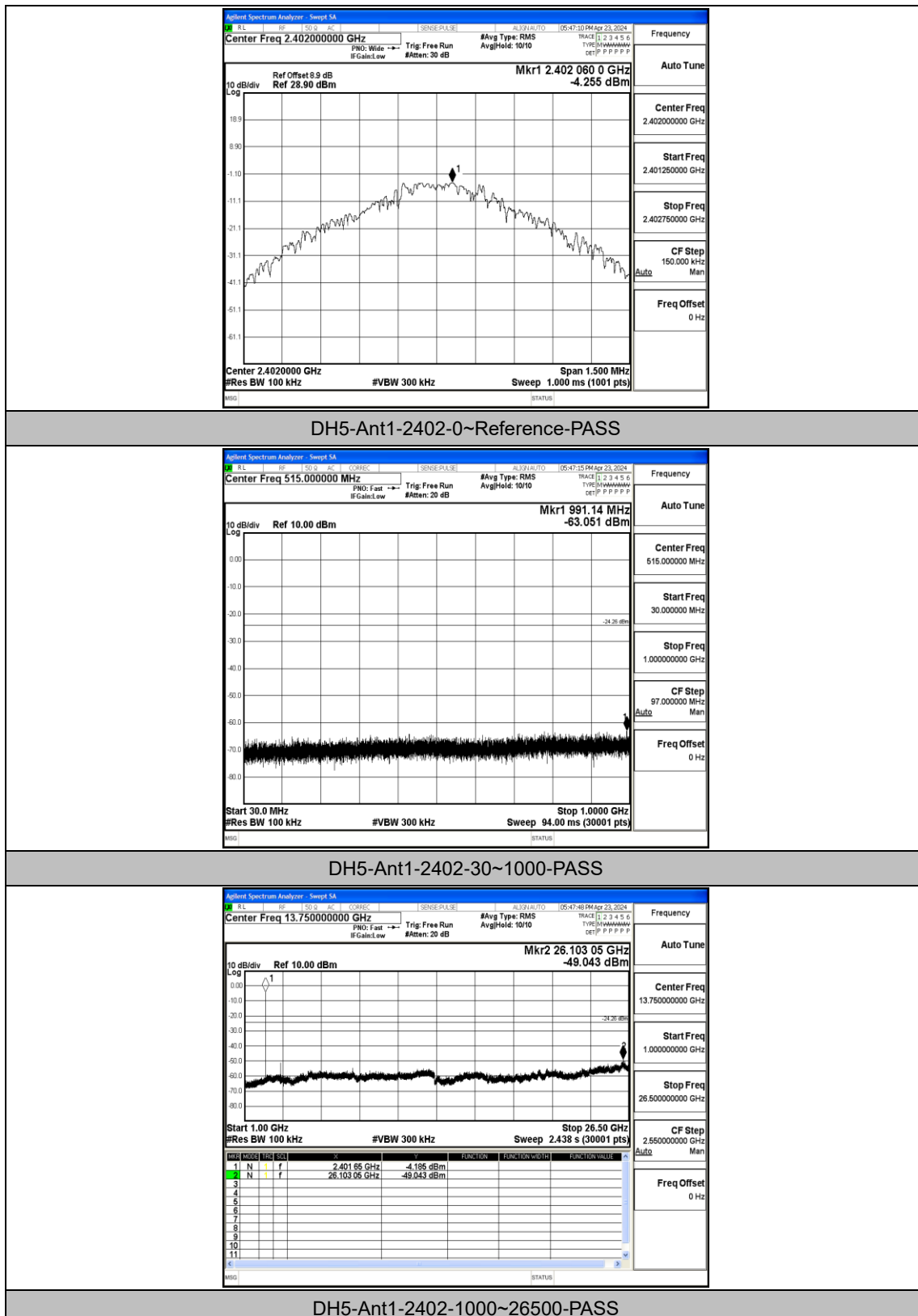
## 3DH5-Ant1-Hop\_2480-PASS

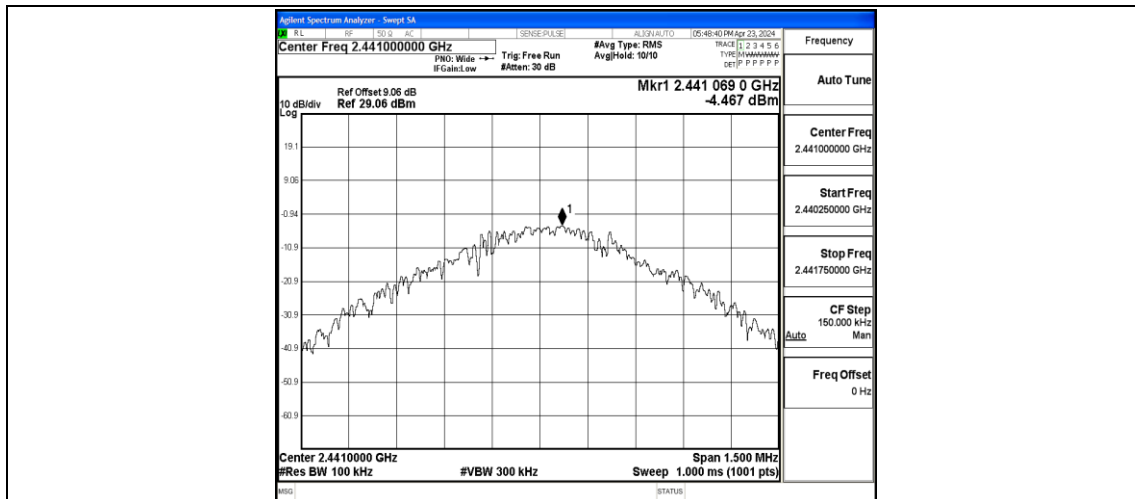
## Appendix H: Conducted Spurious Emission

### Test Result

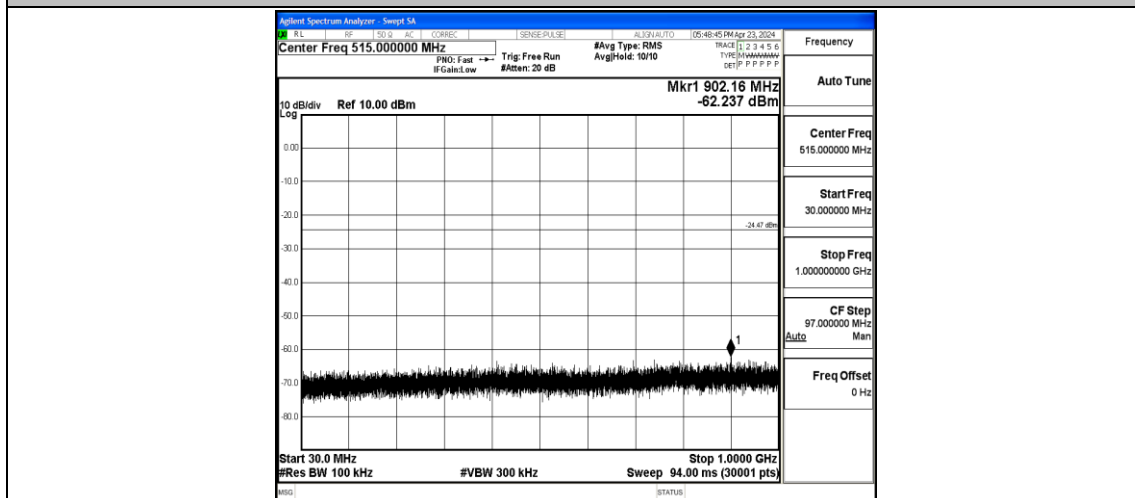
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402           | 0~Reference     | -4.26          | -4.26        | ---         | PASS    |
| DH5      | Ant1    | 2402           | 30~1000         | -4.26          | -63.05       | ≤-24.26     | PASS    |
| DH5      | Ant1    | 2402           | 1000~26500      | -4.26          | -49.04       | ≤-24.26     | PASS    |
| DH5      | Ant1    | 2441           | 0~Reference     | -4.47          | -4.47        | ---         | PASS    |
| DH5      | Ant1    | 2441           | 30~1000         | -4.47          | -62.24       | ≤-24.47     | PASS    |
| DH5      | Ant1    | 2441           | 1000~26500      | -4.47          | -50.33       | ≤-24.47     | PASS    |
| DH5      | Ant1    | 2480           | 0~Reference     | -5.44          | -5.44        | ---         | PASS    |
| DH5      | Ant1    | 2480           | 30~1000         | -5.44          | -62.16       | ≤-25.44     | PASS    |
| DH5      | Ant1    | 2480           | 1000~26500      | -5.44          | -50.66       | ≤-25.44     | PASS    |
| 2DH5     | Ant1    | 2402           | 0~Reference     | -6.42          | -6.42        | ---         | PASS    |
| 2DH5     | Ant1    | 2402           | 30~1000         | -6.42          | -62.86       | ≤-26.42     | PASS    |
| 2DH5     | Ant1    | 2402           | 1000~26500      | -6.42          | -50.21       | ≤-26.42     | PASS    |
| 2DH5     | Ant1    | 2441           | 0~Reference     | -8.72          | -8.72        | ---         | PASS    |
| 2DH5     | Ant1    | 2441           | 30~1000         | -8.72          | -62.94       | ≤-28.72     | PASS    |
| 2DH5     | Ant1    | 2441           | 1000~26500      | -8.72          | -48.87       | ≤-28.72     | PASS    |
| 2DH5     | Ant1    | 2480           | 0~Reference     | -9.24          | -9.24        | ---         | PASS    |
| 2DH5     | Ant1    | 2480           | 30~1000         | -9.24          | -62.46       | ≤-29.24     | PASS    |
| 2DH5     | Ant1    | 2480           | 1000~26500      | -9.24          | -49.58       | ≤-29.24     | PASS    |
| 3DH5     | Ant1    | 2402           | 0~Reference     | -5.60          | -5.60        | ---         | PASS    |
| 3DH5     | Ant1    | 2402           | 30~1000         | -5.60          | -63.07       | ≤-25.6      | PASS    |
| 3DH5     | Ant1    | 2402           | 1000~26500      | -5.60          | -50.21       | ≤-25.6      | PASS    |
| 3DH5     | Ant1    | 2441           | 0~Reference     | -5.64          | -5.64        | ---         | PASS    |
| 3DH5     | Ant1    | 2441           | 30~1000         | -5.64          | -62.78       | ≤-25.64     | PASS    |
| 3DH5     | Ant1    | 2441           | 1000~26500      | -5.64          | -50.05       | ≤-25.64     | PASS    |
| 3DH5     | Ant1    | 2480           | 0~Reference     | -6.66          | -6.66        | ---         | PASS    |
| 3DH5     | Ant1    | 2480           | 30~1000         | -6.66          | -62.43       | ≤-26.66     | PASS    |
| 3DH5     | Ant1    | 2480           | 1000~26500      | -6.66          | -50.52       | ≤-26.66     | PASS    |

## Test Graphs

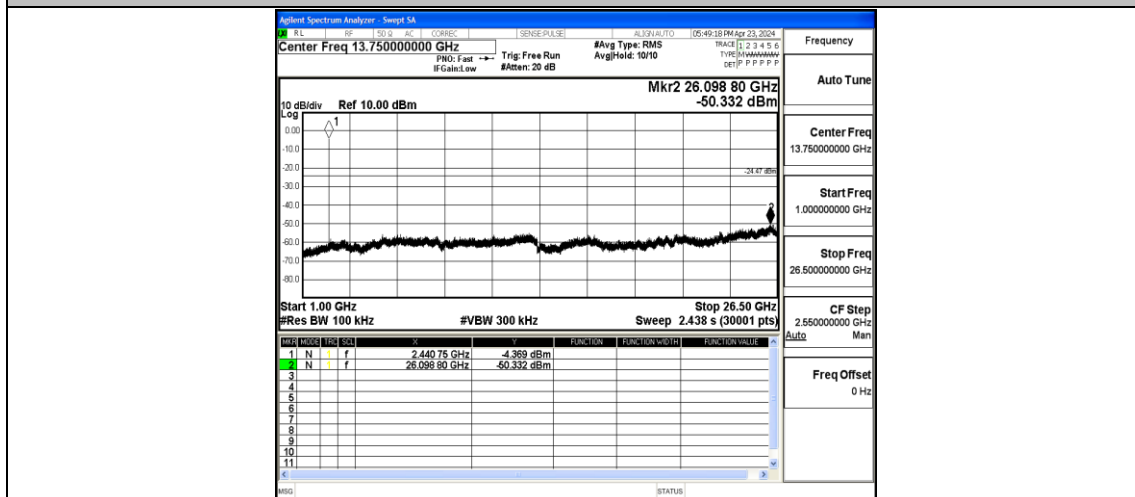




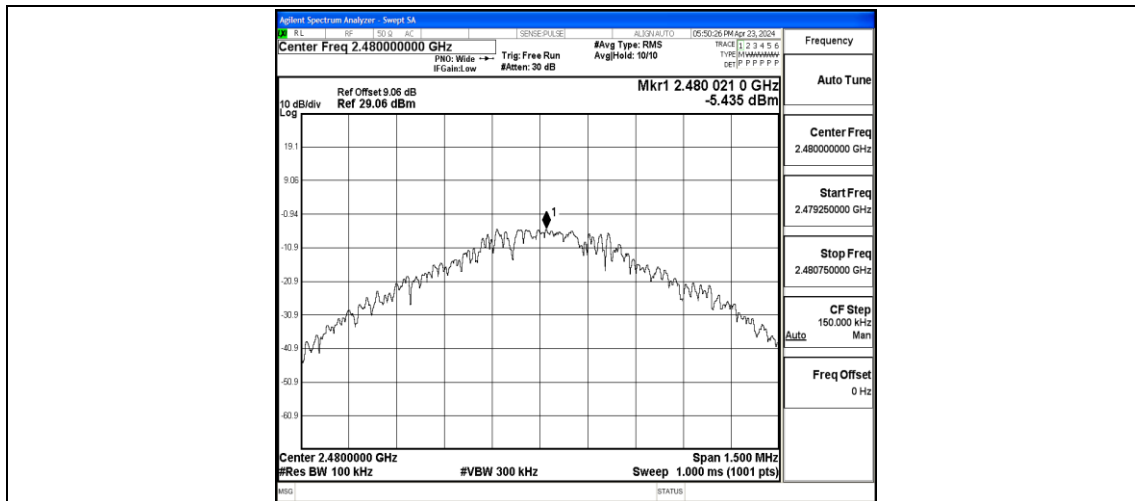
## DH5-Ant1-2441-0~Reference-PASS



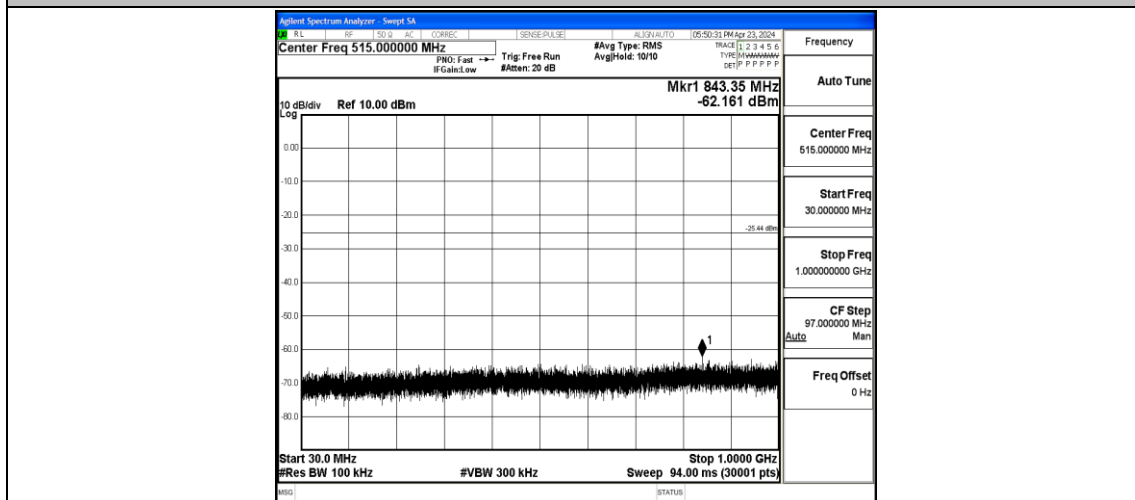
## DH5-Ant1-2441-30~1000-PASS



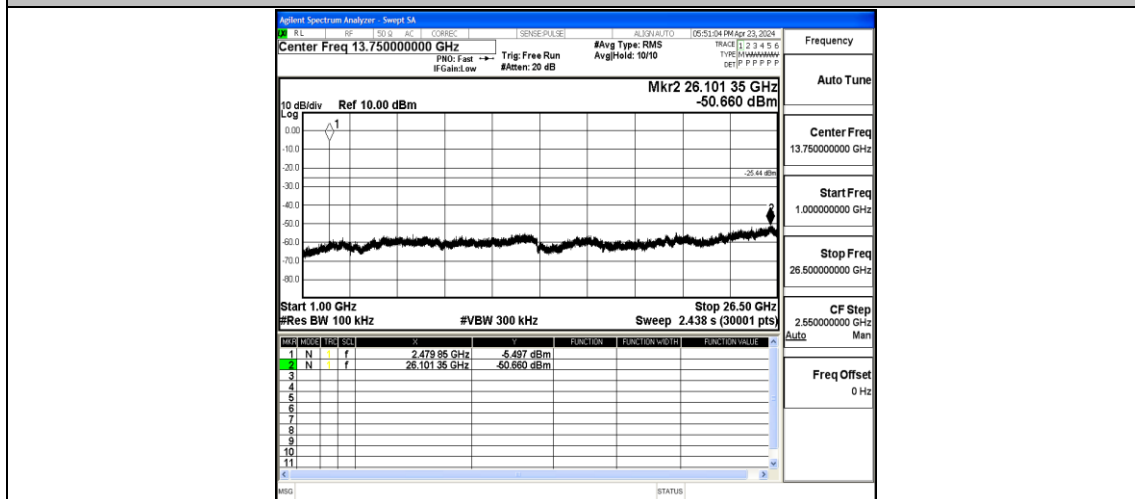
## DH5-Ant1-2441-1000~26500-PASS



DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS



DH5-Ant1-2480-1000~26500-PASS

