

## **Appendix for Bluetooth**

Product Name: CA Essential USB Bluetooth Dongle

Model No: DG-002BT2

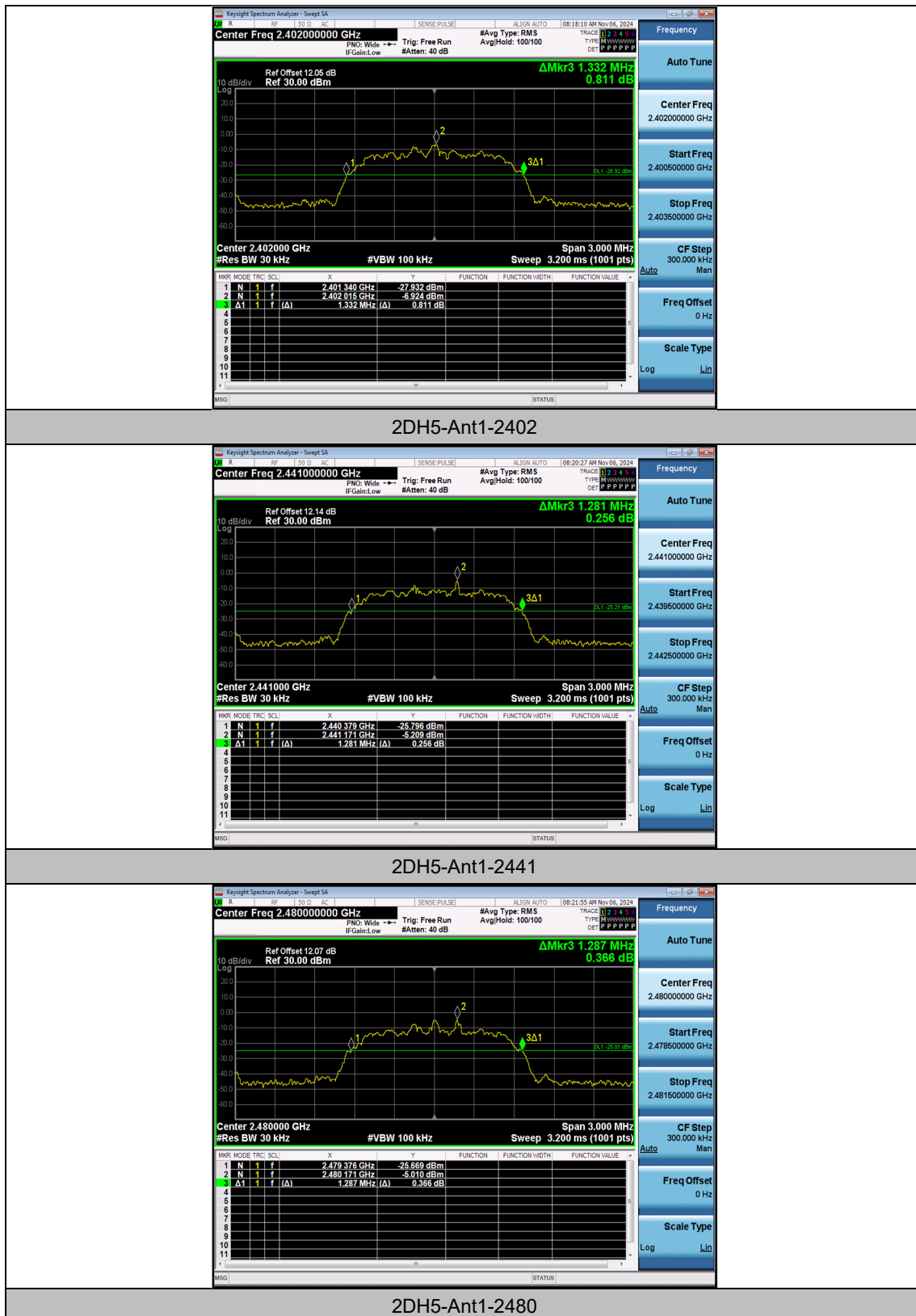
## Appendix A: 20dB Emission Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.957            | 2401.547 | 2402.504 | ---        | ---     |
| DH5      | Ant1    | 2441           | 0.957            | 2440.544 | 2441.501 | ---        | ---     |
| DH5      | Ant1    | 2480           | 0.951            | 2479.550 | 2480.501 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.332            | 2401.340 | 2402.672 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.281            | 2440.379 | 2441.660 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.287            | 2479.376 | 2480.663 | ---        | ---     |

## Test Graphs



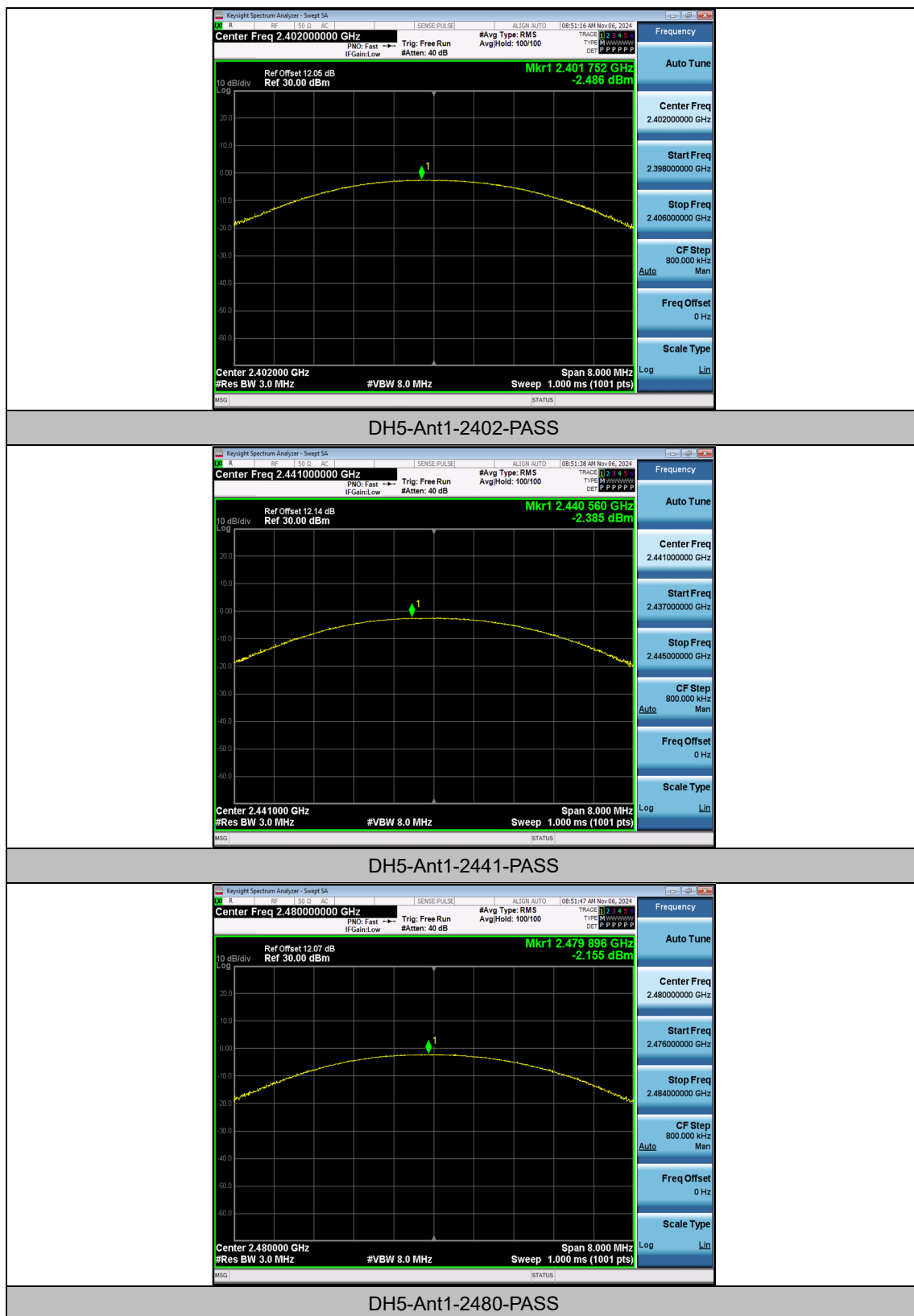


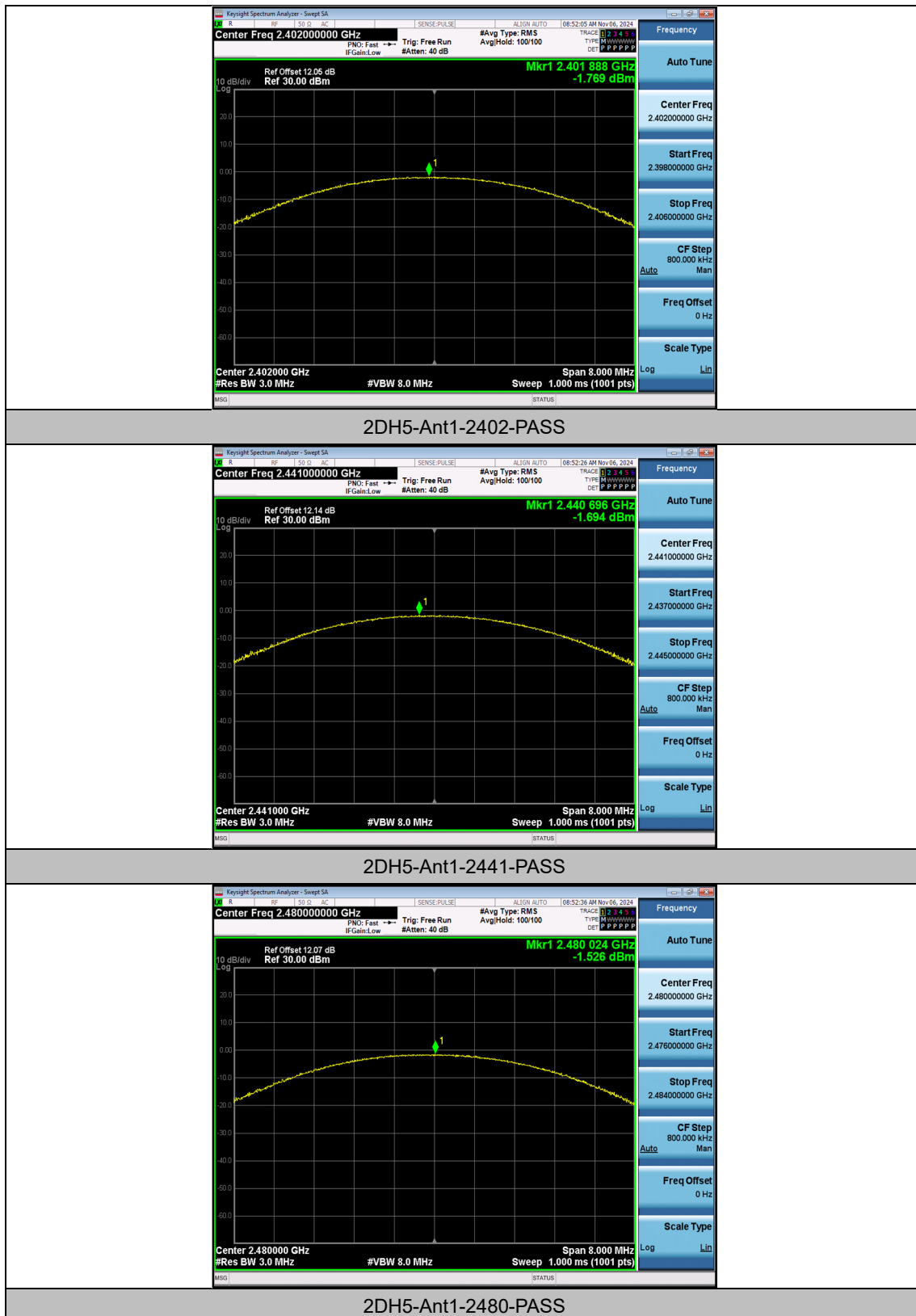
## Appendix B: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402           | -2.49                     | $\leq 20.97$         | PASS    |
| DH5       | Ant1    | 2441           | -2.39                     | $\leq 20.97$         | PASS    |
| DH5       | Ant1    | 2480           | -2.16                     | $\leq 20.97$         | PASS    |
| 2DH5      | Ant1    | 2402           | -1.77                     | $\leq 20.97$         | PASS    |
| 2DH5      | Ant1    | 2441           | -1.69                     | $\leq 20.97$         | PASS    |
| 2DH5      | Ant1    | 2480           | -1.53                     | $\leq 20.97$         | PASS    |

## Test Graphs





## Appendix C: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|----------------|-------------|--------------|---------|
| DH5      | Ant1    | Hop            | 1.024       | $\geq 0.957$ | PASS    |
| 2DH5     | Ant1    | Hop            | 0.99        | $\geq 0.888$ | PASS    |

## Test Graphs

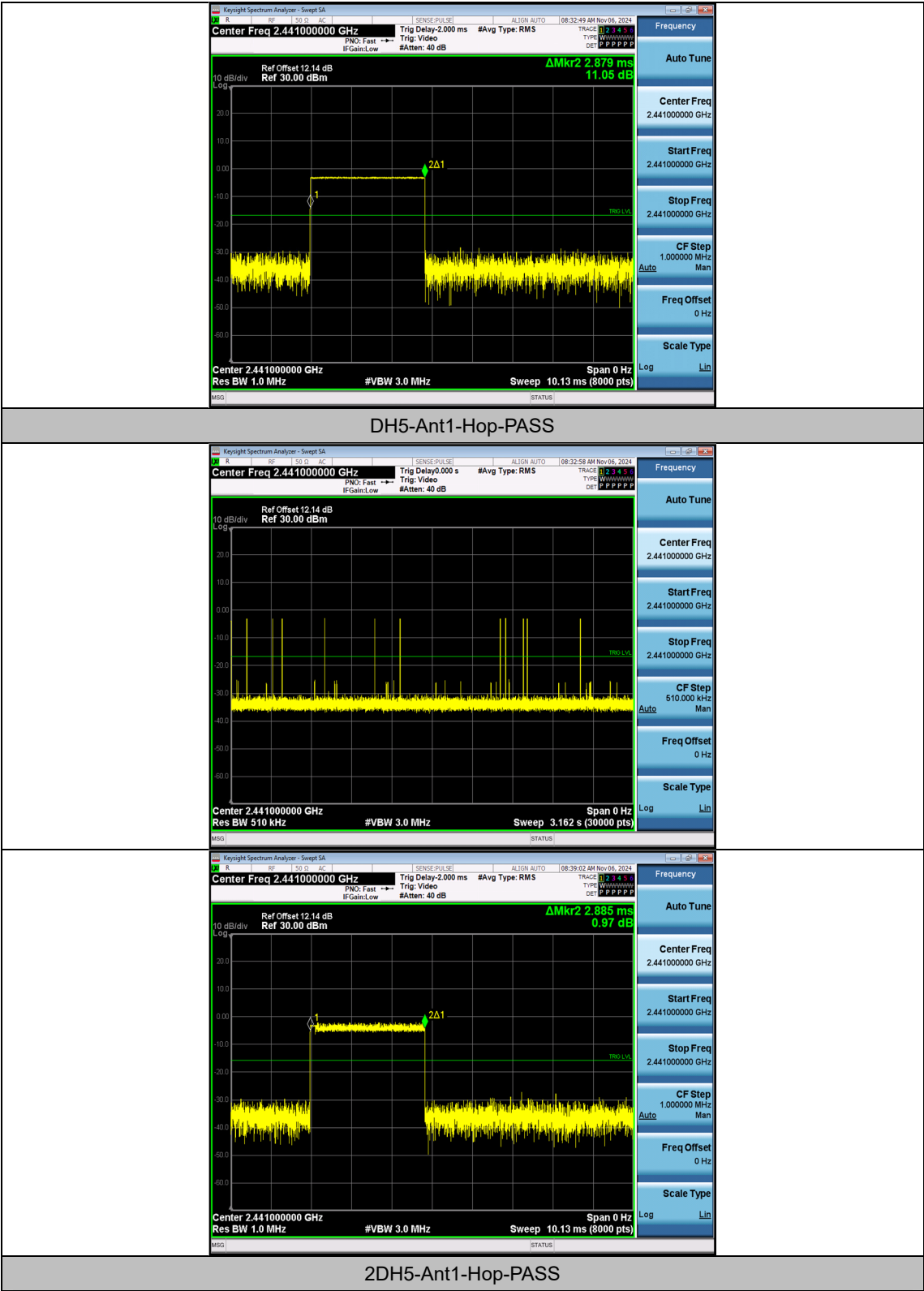


## Appendix D: Time of occupancy

### Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop            | 2.879              | 120                | 0.345     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop            | 2.885              | 130                | 0.375     | ≤0.4     | PASS    |

Test Graphs



## Appendix E: 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    |

Test Graphs



## Appendix F: Reference level measurement

### Test Result

| TestMode | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|----------|---------|-----------|----------------|-------------|
| DH5      | Ant1    | 2402      | 2402.00        | -3.63       |
| DH5      | Ant1    | 2441      | 2440.87        | -3.44       |
| DH5      | Ant1    | 2480      | 2479.85        | -2.93       |
| 2DH5     | Ant1    | 2402      | 2401.86        | -3.39       |
| 2DH5     | Ant1    | 2441      | 2440.85        | -3.37       |
| 2DH5     | Ant1    | 2480      | 2480.17        | -2.91       |

## Test Graphs

