

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20126801 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.6.14       | Finish Test Date:  | 2022.6.20         |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 22.6℃           | Relative Humidity: | 55.9 %            |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| Test Mode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|---------------|----------|----------|------------|---------|
| 2.4G      | Ant1    | 2408    | 1.580         | 2407.215 | 2408.795 | ---        | PASS    |
|           |         | 2440    | 1.585         | 2439.215 | 2440.800 | ---        | PASS    |
|           |         | 2474    | 1.615         | 2473.215 | 2474.830 | ---        | PASS    |

## Test Graphs

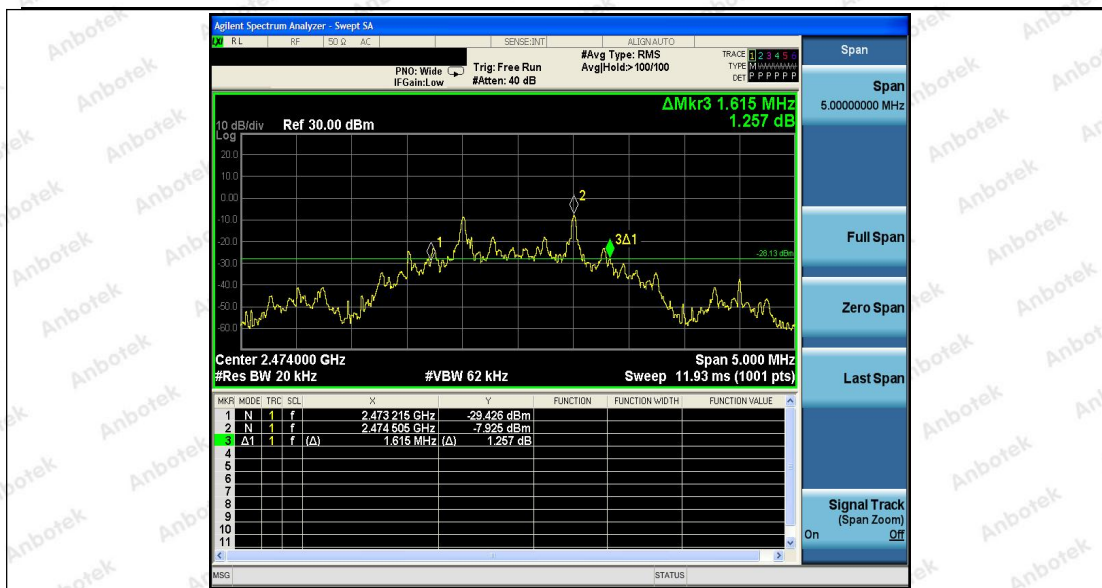
2.4\_Ant1\_2408



2.4\_Ant1\_2440



2.4\_Ant1\_2474



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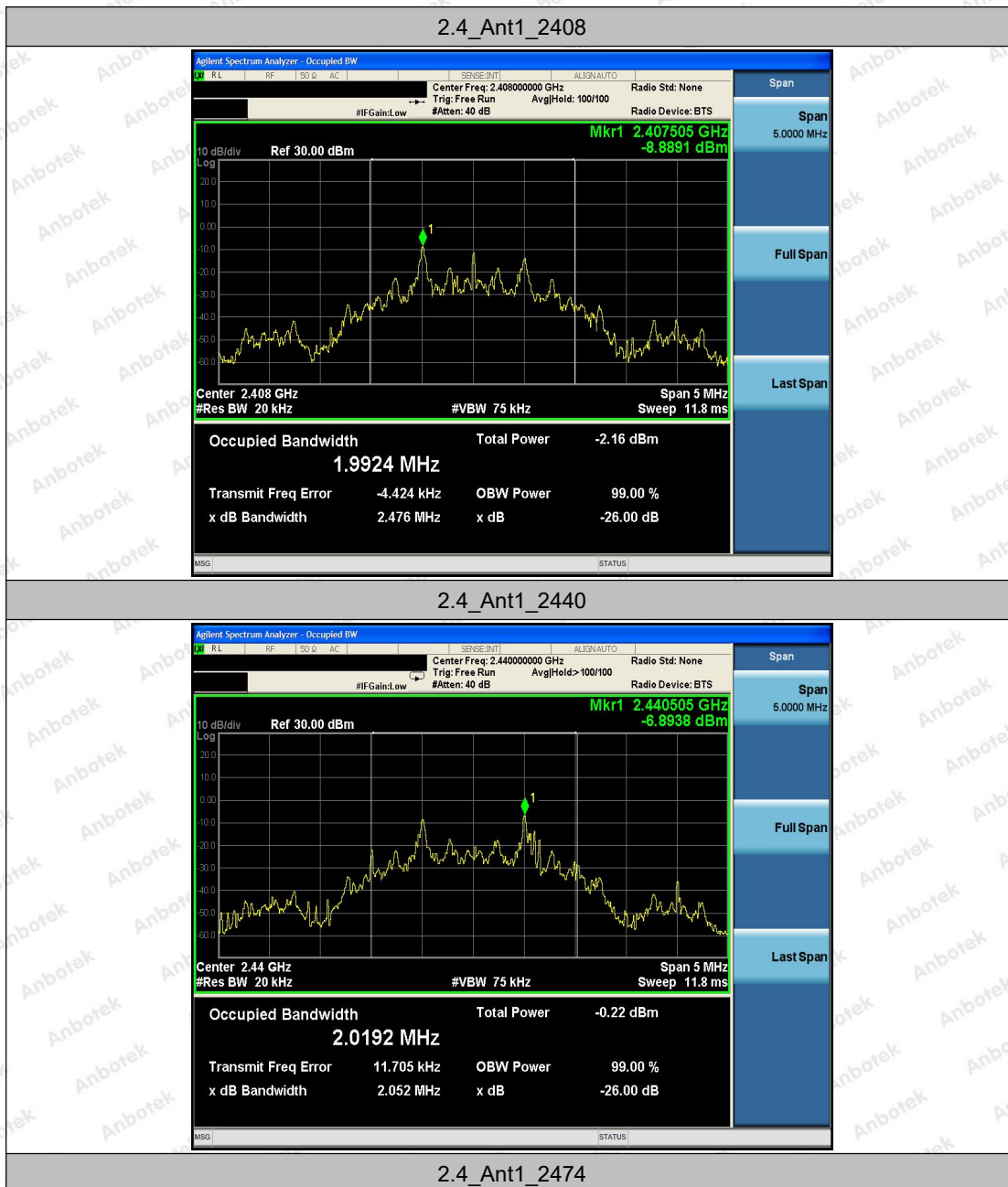
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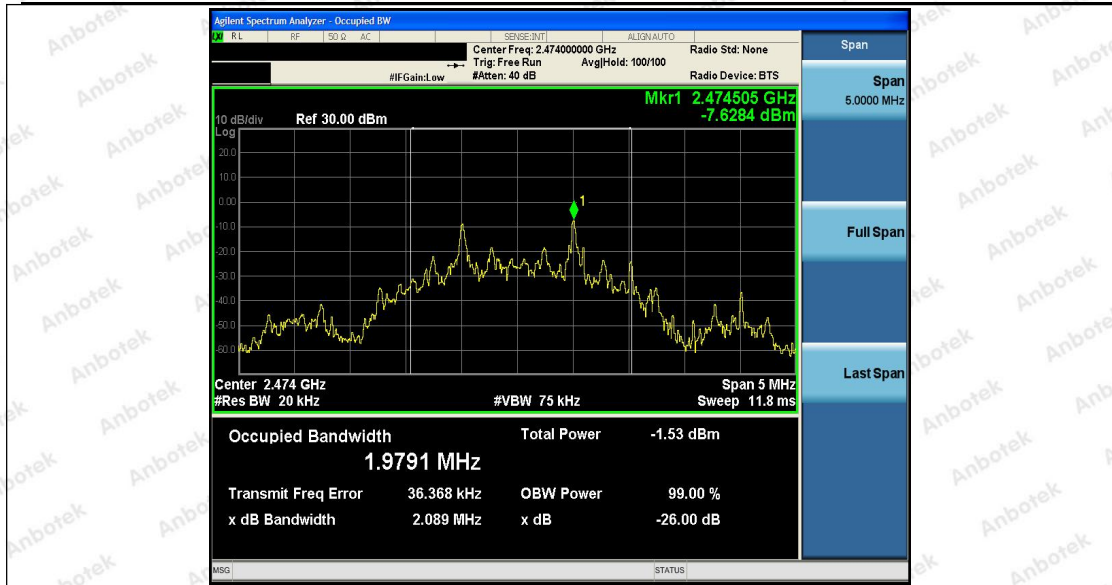
## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| 2.4G      | Ant1    | 2408    | 1.9924    | 2406.999 | 2408.992 | ---        | PASS    |
|           |         | 2440    | 2.0192    | 2439.055 | 2441.022 | ---        | PASS    |
|           |         | 2474    | 1.9791    | 2473.047 | 2475.026 | ---        | PASS    |

## Test Graphs





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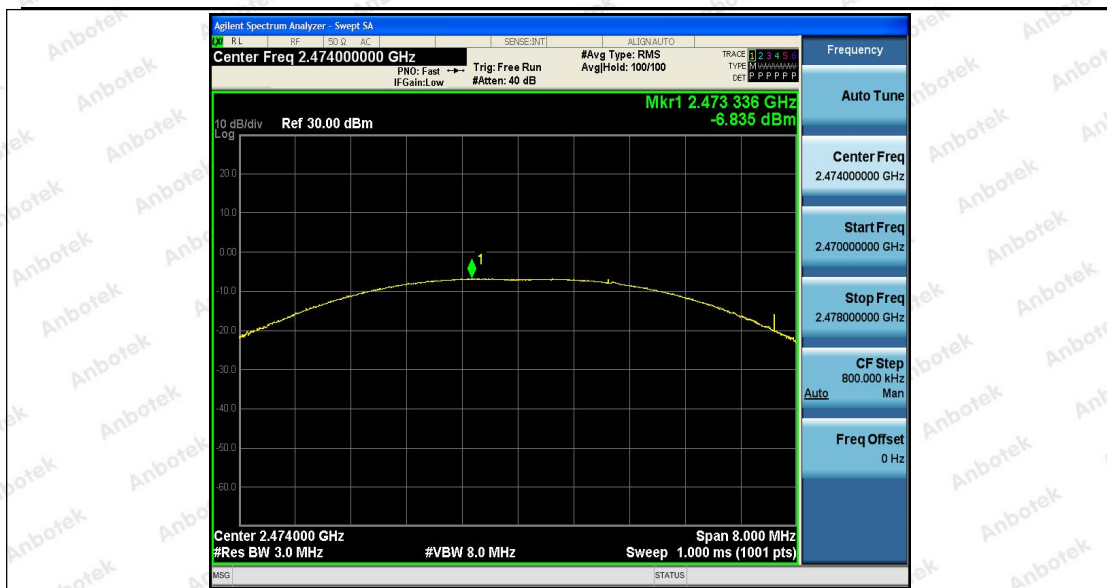
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## Appendix C: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 2.4G      | Ant1    | 2408    | -6.49       | ≤20.97     | PASS    |
|           |         | 2440    | -6.55       | ≤20.97     | PASS    |
|           |         | 2474    | -6.84       | ≤20.97     | PASS    |





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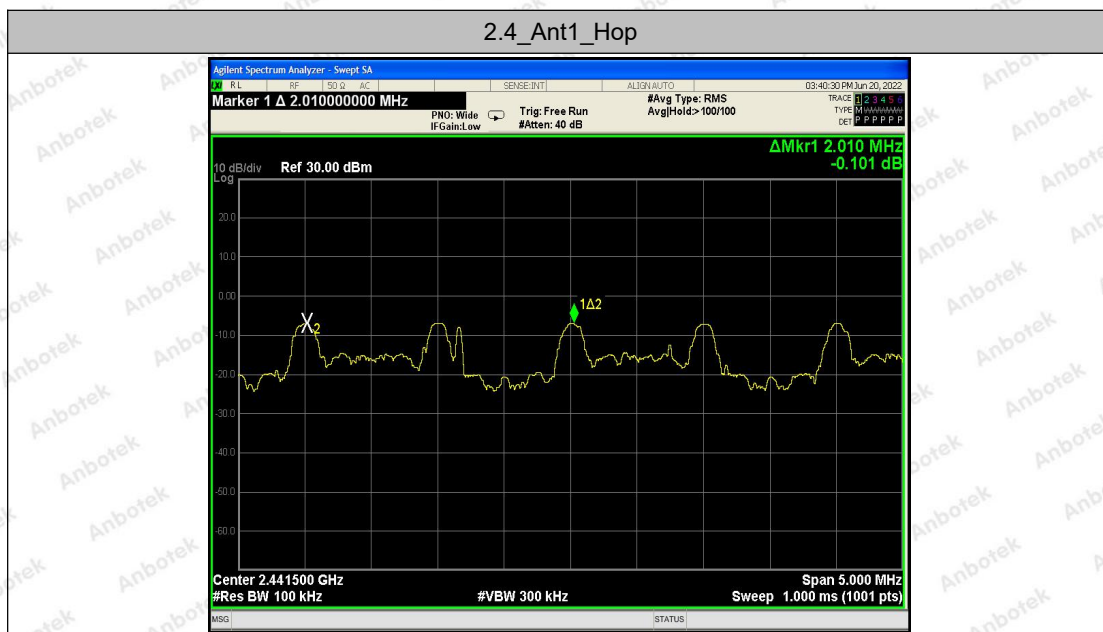
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## Appendix D: Carrier frequency separation

### Test Result

| Test Mode | Antenna | Channel | Result[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 2.4G      | Ant1    | Hop     | 2.010       | ≥1.077     | PASS    |

### Test Graphs

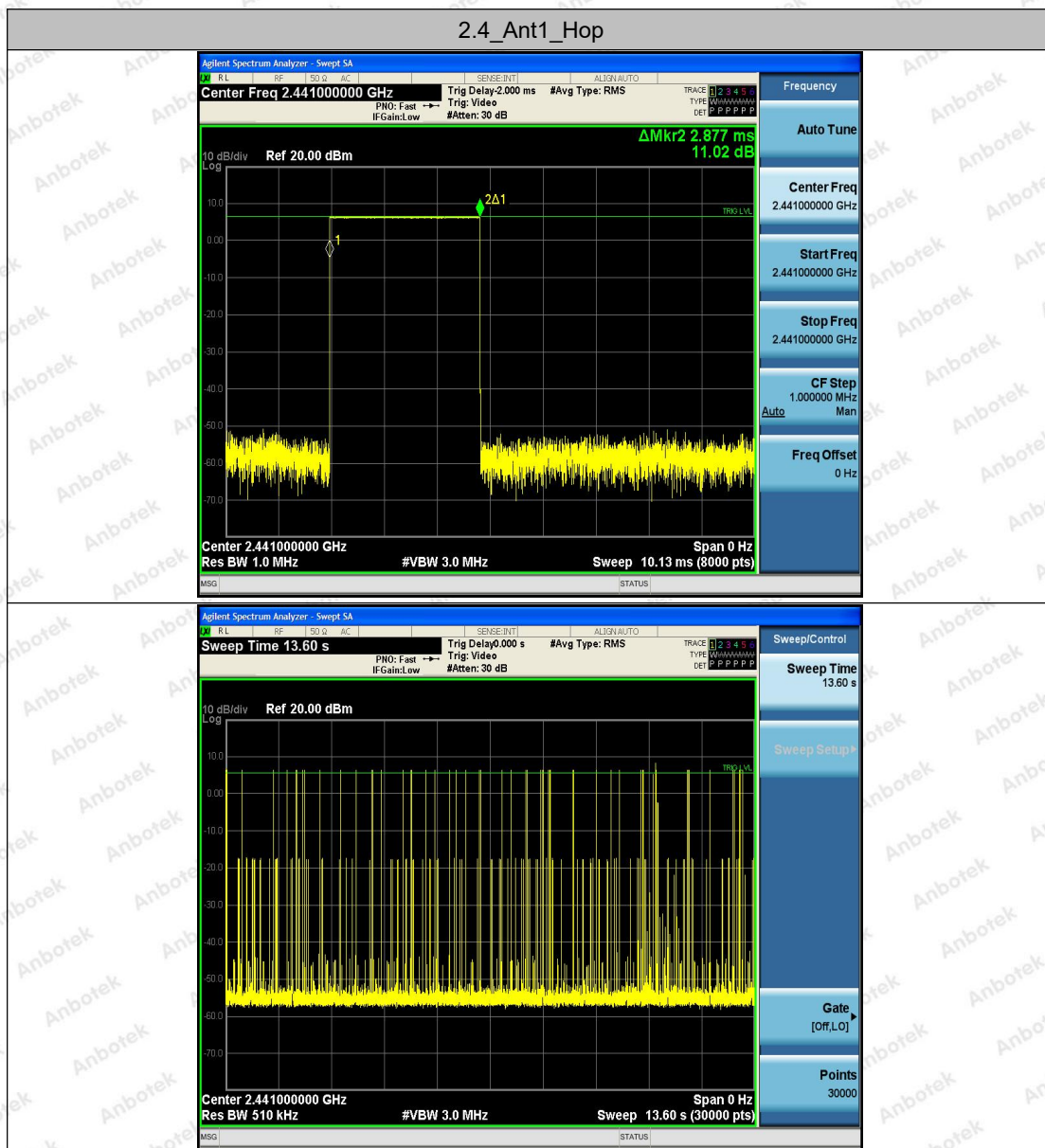


## Appendix E: Time of occupancy

### Test Result

| Test Mode | Antenna | Channel | Burst Width[ms] | Total Hops [Num] | Result[s] | Limit[s] | Verdict |
|-----------|---------|---------|-----------------|------------------|-----------|----------|---------|
| 2.4G      | Ant1    | Hop     | 2.88            | 47               | 0.135     | ≤0.4     | PASS    |

### Test Graphs

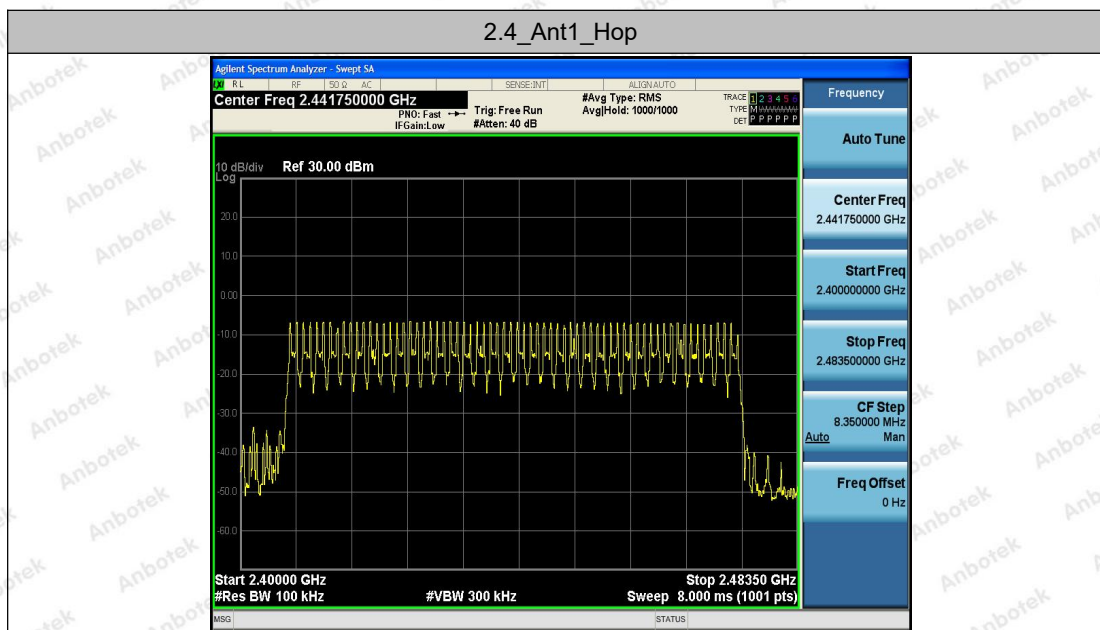


## Appendix F: Number of hopping channels

### Test Result

| Test Mode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 2.4G      | Ant1    | Hop     | 34          | ≥15        | PASS    |

### Test Graphs



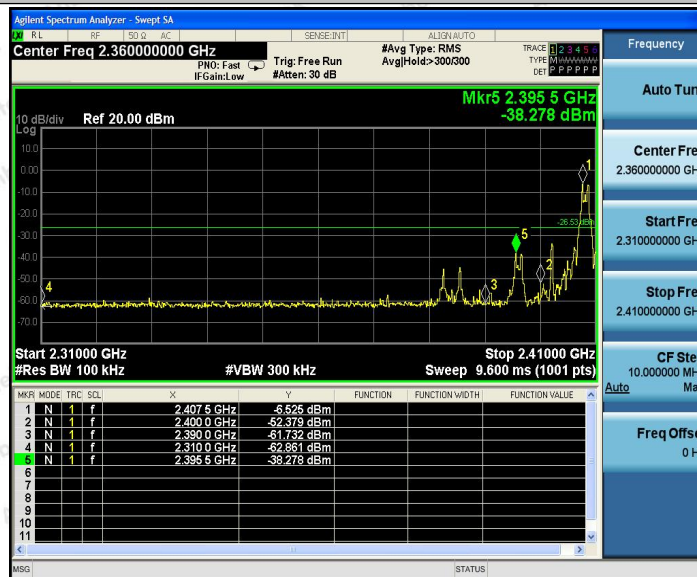
## Appendix G: Band edge measurements

### Test Result

| Test Mode | Antenna | Ch Name | Channel | Ref Level[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|---------|---------|----------------|-------------|---------------|---------|
| 2.4G      | Ant1    | Low     | 2408    | -6.53          | -38.28      | $\leq -26.53$ | PASS    |
|           |         | High    | 2474    | -6.97          | -51.54      | $\leq -26.97$ | PASS    |
|           |         | Low     | Hop     | -7.06          | -44.57      | $\leq -27.06$ | PASS    |
|           |         | High    | Hop     | -7.01          | -61.25      | $\leq -27.01$ | PASS    |

## Test Graphs

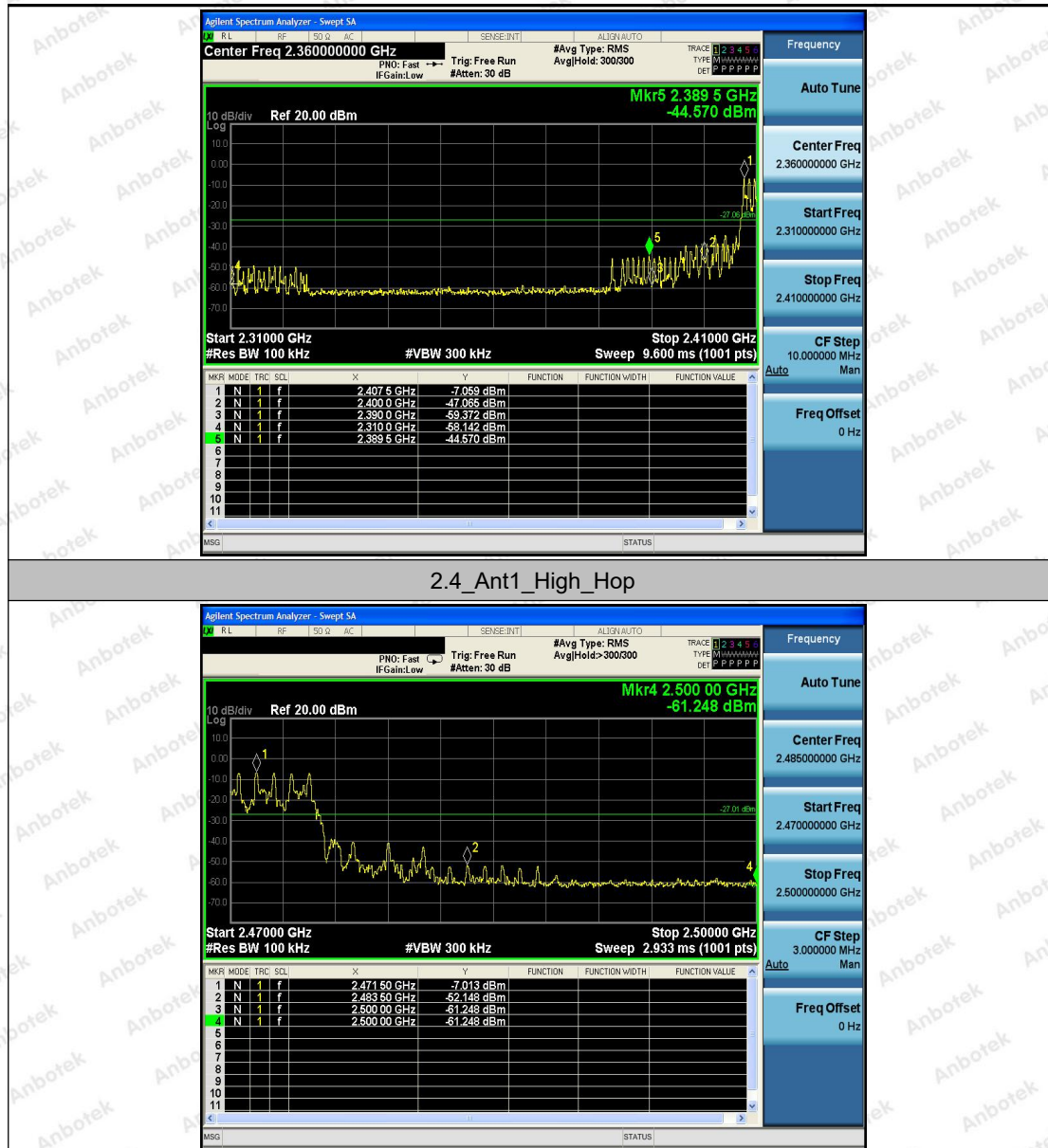
2.4\_Ant1\_Low\_2408



2.4\_Ant1\_High\_2474



2.4\_Ant1\_Low\_Hop



## Appendix H: Conducted Spurious Emission

### Test Result

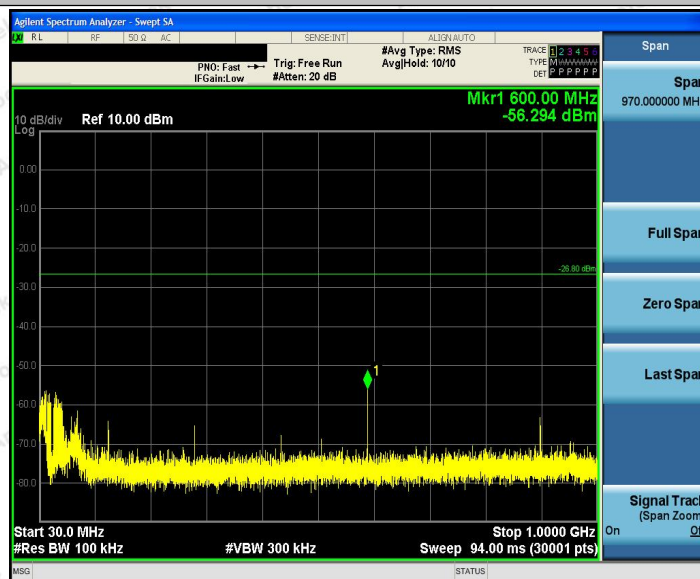
| Test Mode | Antenna | Channel | Freq Range<br>[MHz] | Ref Level<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|---------|---------|---------------------|--------------------|-----------------|----------------|---------|
| 2.4G      | Ant1    | 2408    | Reference           | -6.80              | -6.80           | ---            | PASS    |
|           |         |         | 30~1000             | -6.80              | -56.29          | $\leq -26.8$   | PASS    |
|           |         |         | 1000~26500          | -6.80              | -55.25          | $\leq -26.8$   | PASS    |
|           |         | 2440    | Reference           | -6.89              | -6.89           | ---            | PASS    |
|           |         |         | 30~1000             | -6.89              | -53.83          | $\leq -26.89$  | PASS    |
|           |         |         | 1000~26500          | -6.89              | -36.06          | $\leq -26.89$  | PASS    |
|           |         | 2474    | Reference           | -7.01              | -7.01           | ---            | PASS    |
|           |         |         | 30~1000             | -7.01              | -55.1           | $\leq -27.01$  | PASS    |
|           |         |         | 1000~26500          | -7.01              | -52.96          | $\leq -27.01$  | PASS    |

## Test Graphs

2.4\_Ant1\_2408\_0~Reference



2.4\_Ant1\_2408\_30~1000



2.4\_Ant1\_2408\_1000~26500



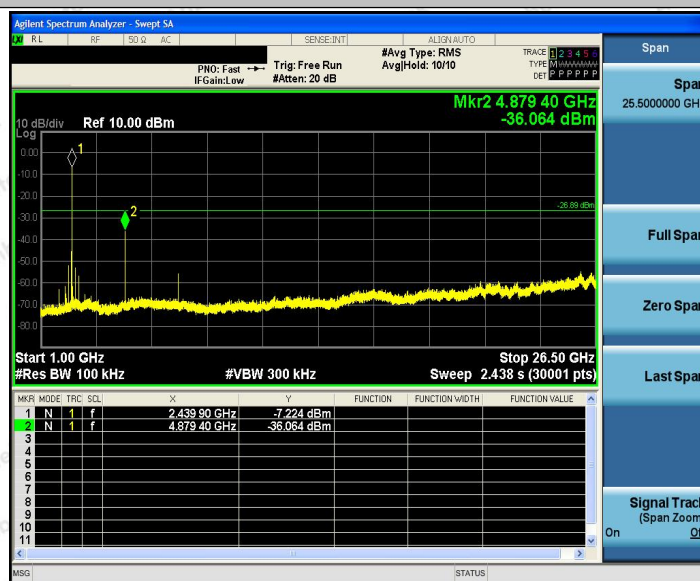
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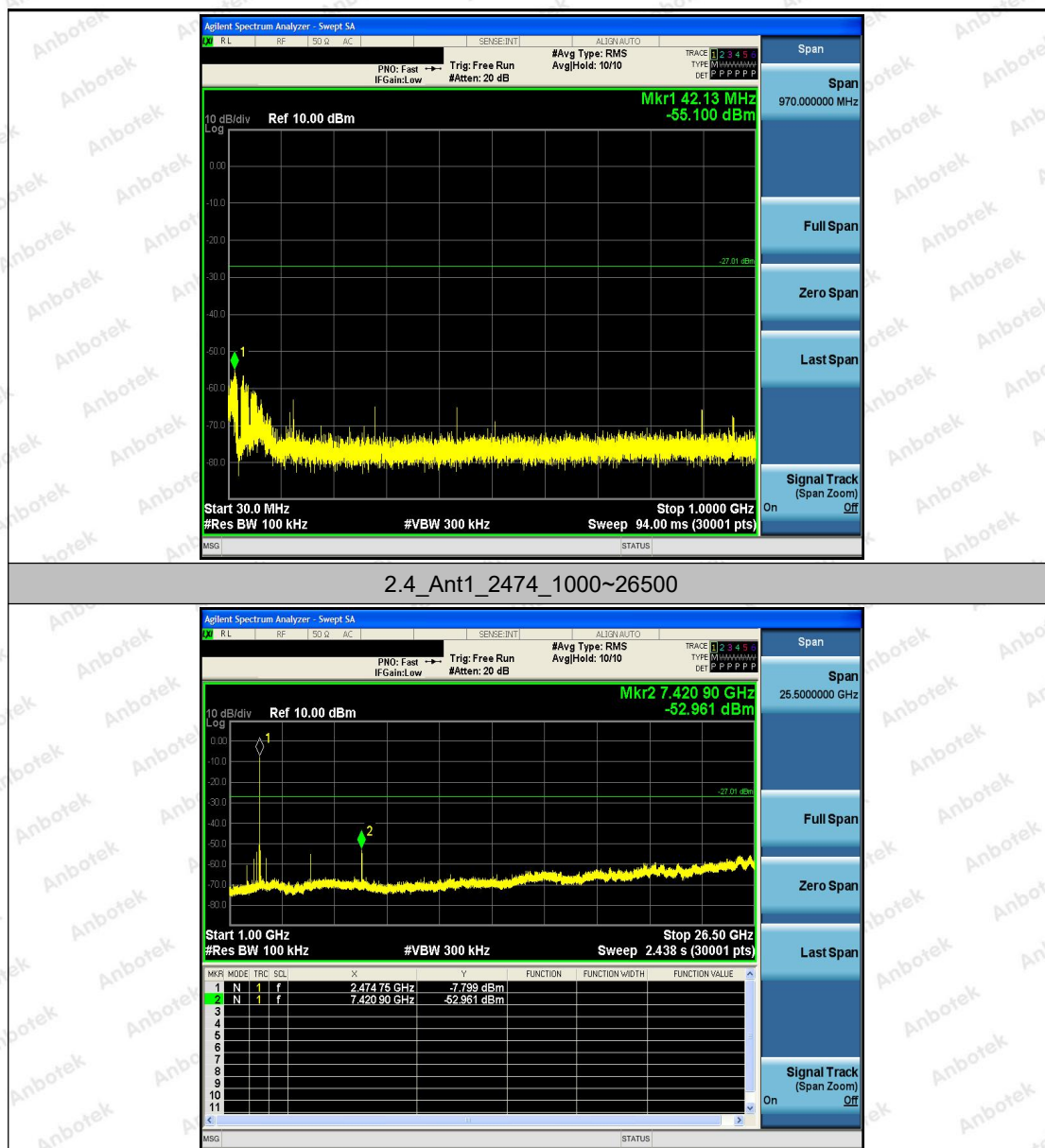
2.4\_Ant1\_2440\_1000~26500



2.4\_Ant1\_2474\_0~Reference



2.4\_Ant1\_2474\_30~1000

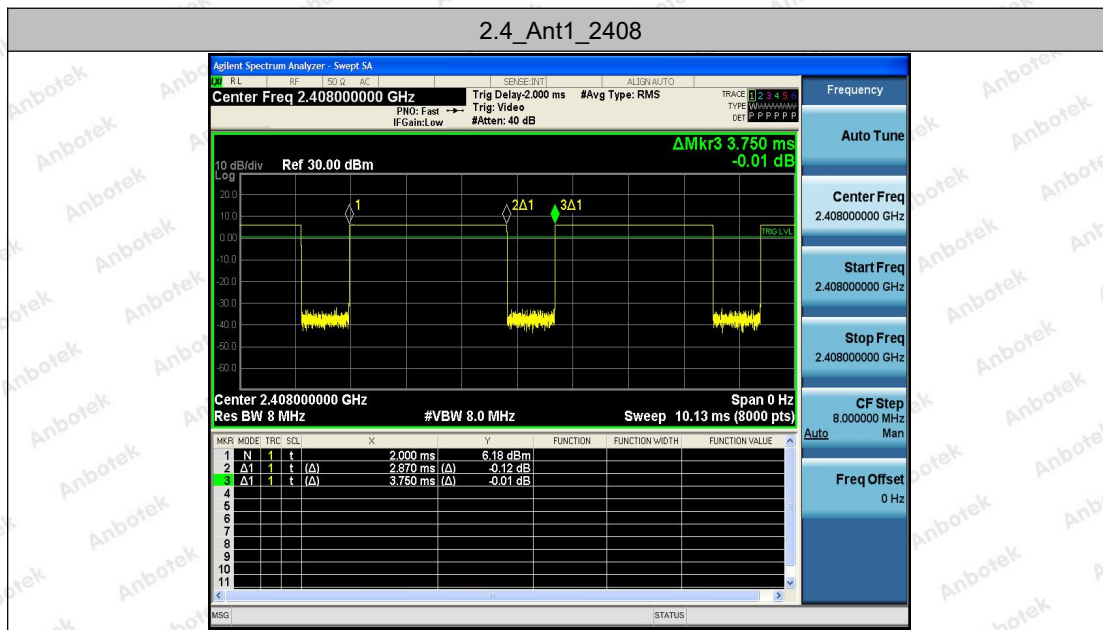


## Appendix I: Duty Cycle

### Test Result

| Test Mode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X      | DC<br>[%] | X Factor | Limit | Verdict |
|-----------|---------|---------|-----------------|----------------|--------|-----------|----------|-------|---------|
| 2.4G      | Ant1    | 2408    | 2.87            | 3.75           | 0.7653 | 76.53     | 1.16     | ---   | PASS    |

### Test Graphs



---End---