

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30243101 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.11.24      | Finish Test Date:  | 2023.12.05 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rick Luo   |
| Temperature:     | 26.0°C          | Relative Humidity: | 47%        |
| Pressure:        | 101kPa          |                    |            |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|----------|----------|------------|---------|
| 2.4G     | Ant1    | 2403.8         | 0.975            | 2403.308 | 2404.283 | ---        | ---     |
|          |         | 2440.8         | 0.993            | 2440.299 | 2441.292 | ---        | ---     |
|          |         | 2479.8         | 0.990            | 2479.290 | 2480.280 | ---        | ---     |

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## Test Graphs

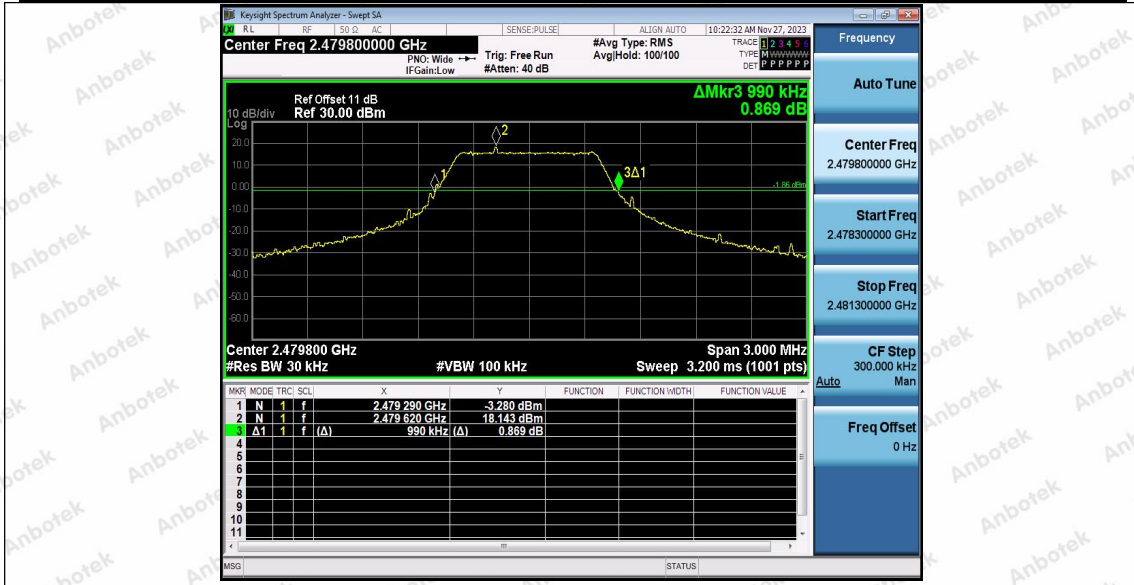


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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 2.4G     | Ant1    | 2403.8         | 0.86384   | 2403.3604 | 2404.2242 | ---        | ---     |
|          |         | 2440.8         | 0.86355   | 2440.3558 | 2441.2194 | ---        | ---     |
|          |         | 2479.8         | 0.86242   | 2479.3551 | 2480.2175 | ---        | ---     |

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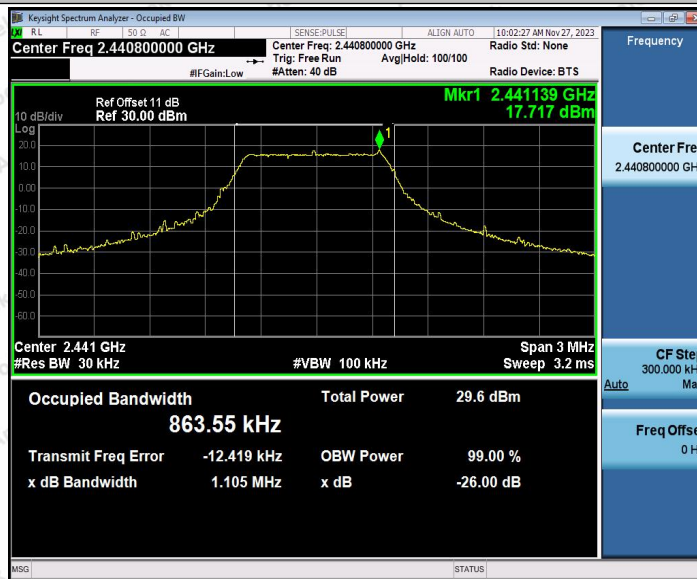


## Test Graphs

2.4G\_Ant1\_2403.8



2.4G\_Ant1\_2440.8



2.4G\_Ant1\_2479.8

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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 |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| 2.4G      | Ant1    | 2403.8         | 19.01                     | ≤30                  | PASS    |
|           |         | 2440.8         | 18.97                     | ≤30                  | PASS    |
|           |         | 2479.8         | 18.72                     | ≤30                  | PASS    |



## Test Graphs

2.4G\_Ant1\_2403.8



2.4G\_Ant1\_2440.8



2.4G\_Ant1\_2479.8

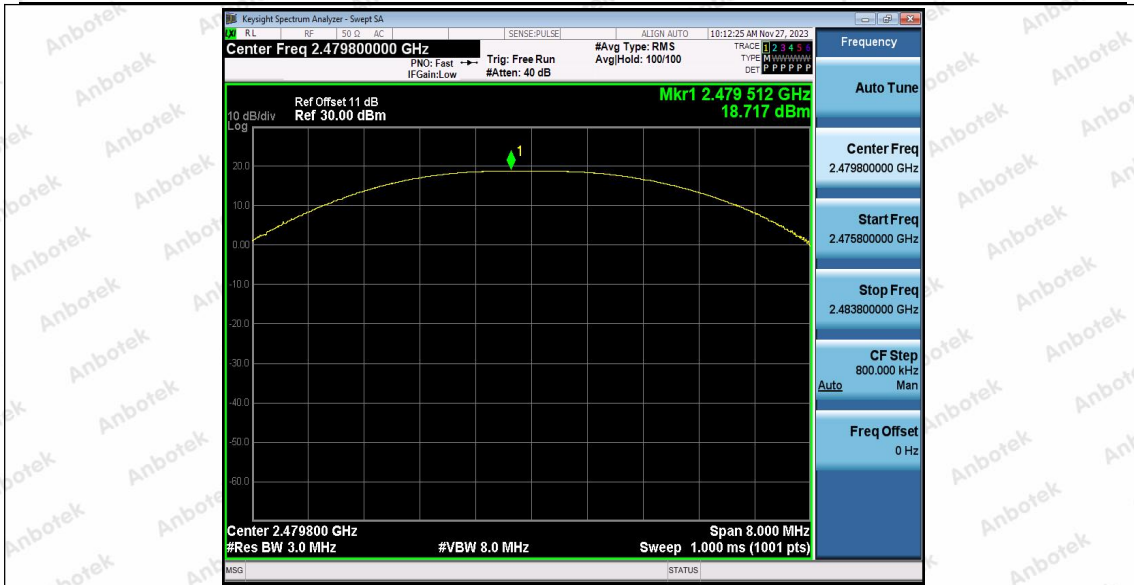
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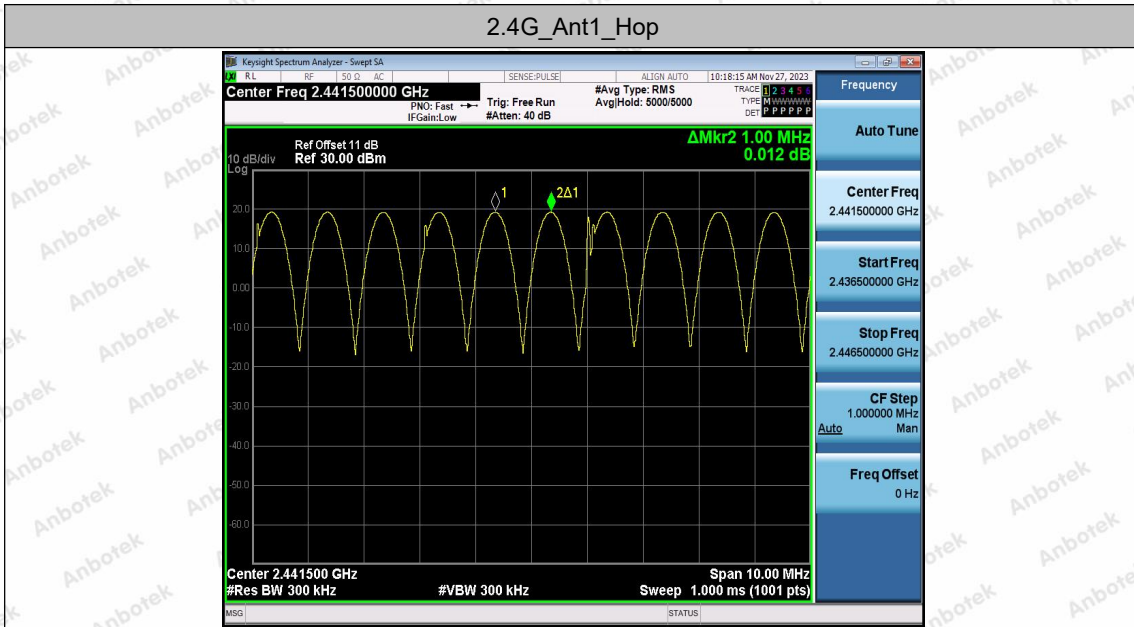
## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 1.000       | ≥0.993     | 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 |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| 2.4G     | Ant1    | Hop            | 6.566              | 59                 | 0.387     | ≤0.4     | PASS    |

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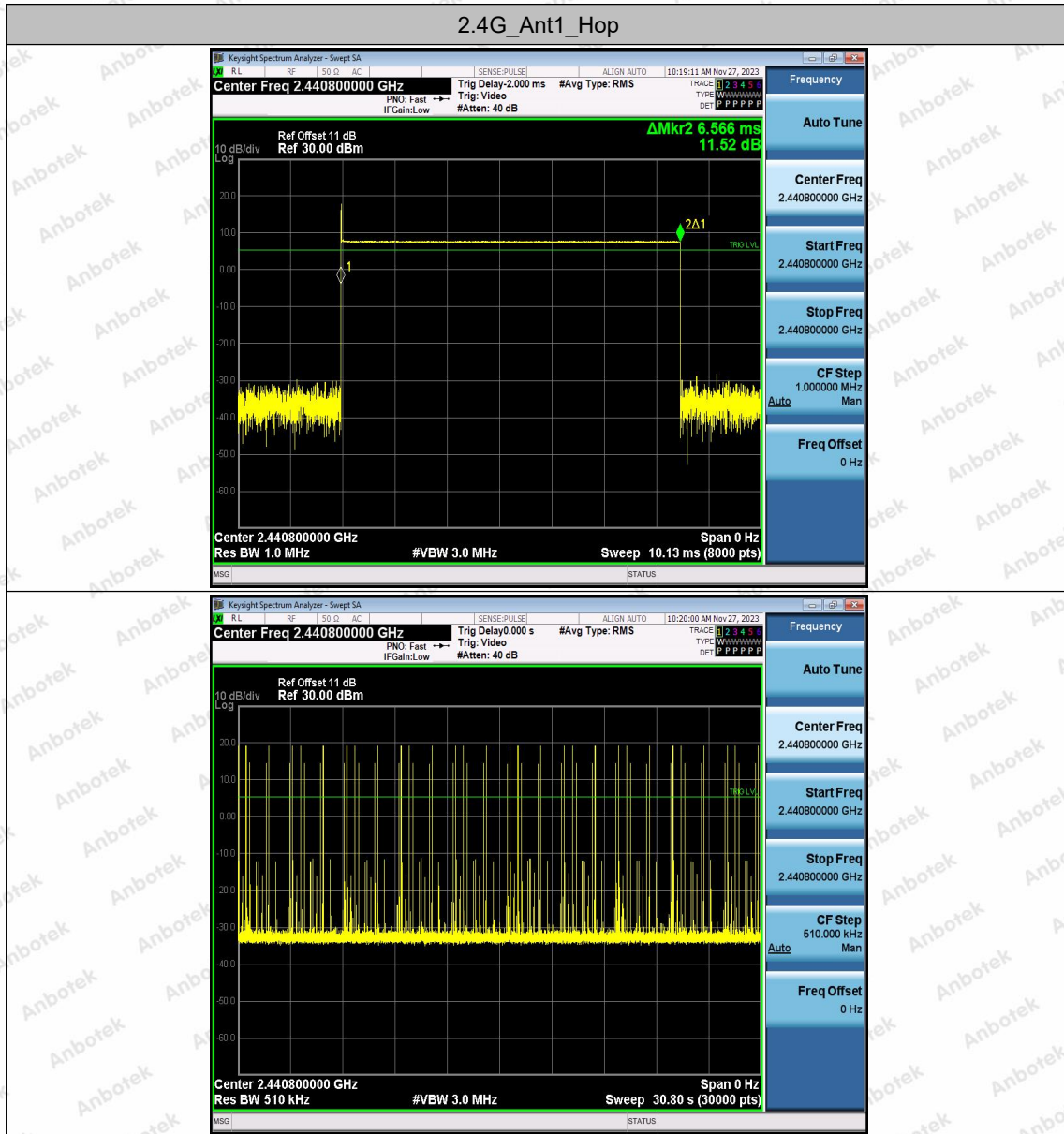
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## Test Graphs



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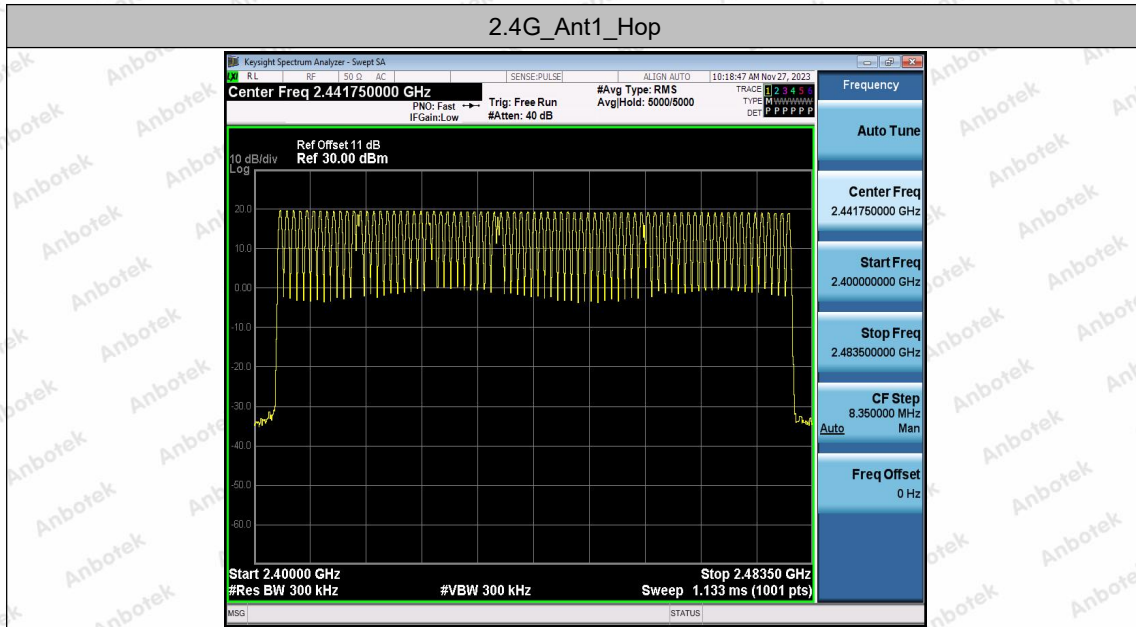
## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 77          | ≥15        | PASS    |



## Test Graphs



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## Appendix G: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| 2.4G     | Ant1    | Low    | 2403.8         | 19.25          | -35.92       | ≤-0.75      | PASS    |
|          |         | High   | 2479.8         | 18.97          | -34.27       | ≤-1.03      | PASS    |
|          |         | Low    | Hop_2403.8     | 19.56          | -36.28       | ≤-0.44      | PASS    |
|          |         | High   | Hop_2479.8     | 19.02          | -35.95       | ≤-0.98      | PASS    |

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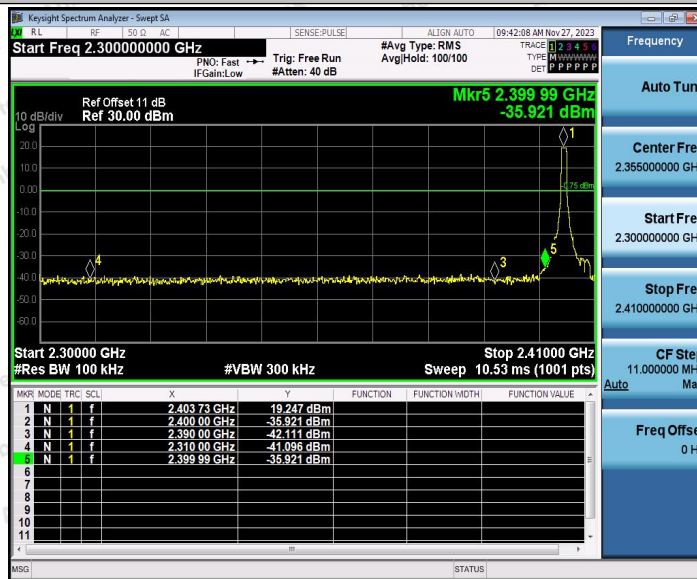
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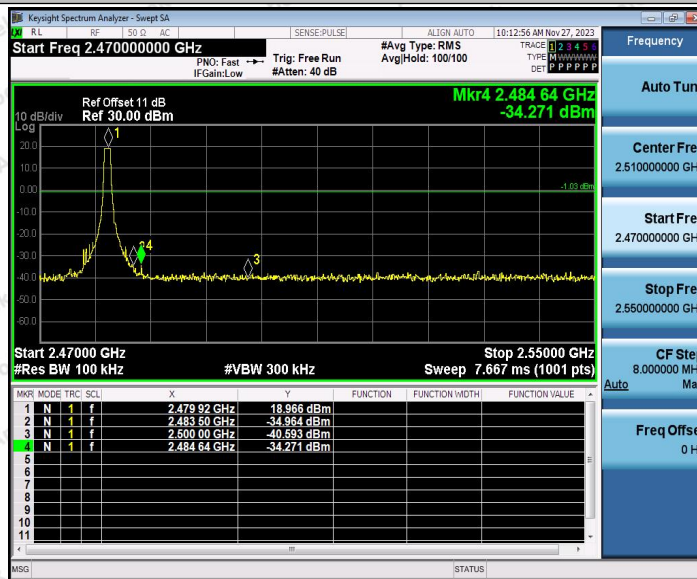


## Test Graphs

2.4G\_Ant1\_Low\_2403.8



2.4G\_Ant1\_High\_2479.8



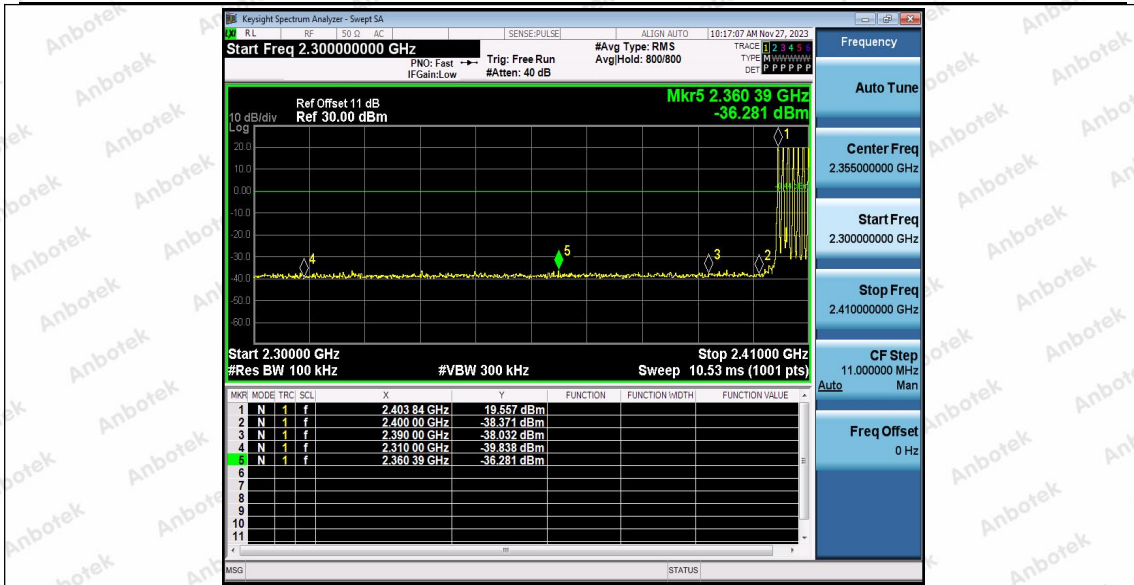
2.4G\_Ant1\_Low\_Hop\_2403.8

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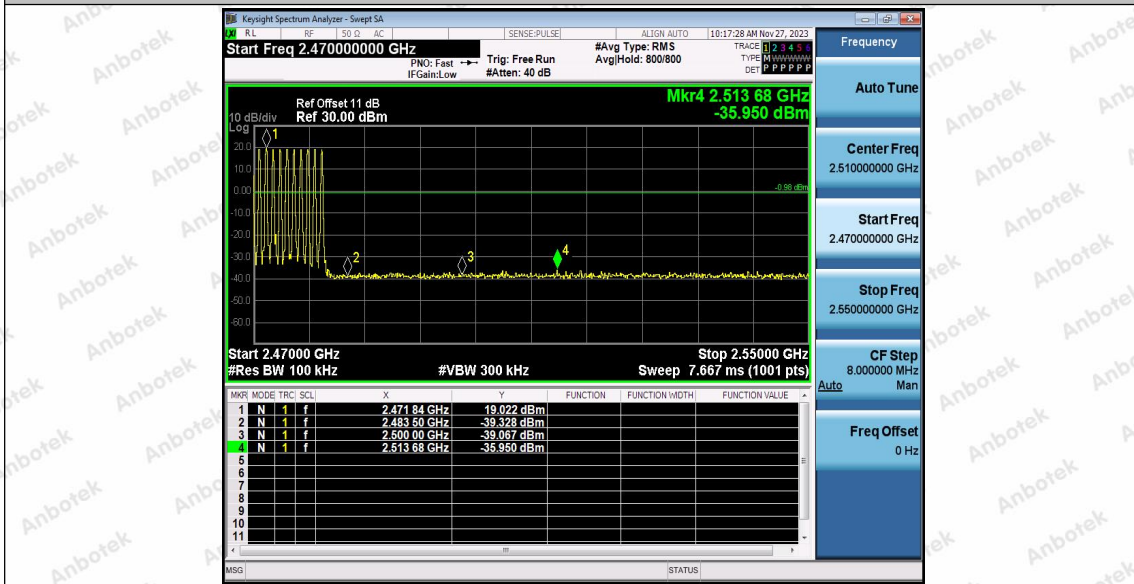
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2.4G\_Ant1\_High\_Hop\_2479.8



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## Appendix H: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 2.4G     | Ant1    | 2403.8         | Reference       | 18.86          | 18.86        | ---         | PASS    |
|          |         |                | 30~1000         | 18.86          | -39.22       | ≤-1.14      | PASS    |
|          |         |                | 1000~26500      | 18.86          | -24.16       | ≤-1.14      | PASS    |
|          |         | 2440.8         | Reference       | 18.86          | 18.86        | ---         | PASS    |
|          |         |                | 30~1000         | 18.86          | -38.92       | ≤-1.14      | PASS    |
|          |         |                | 1000~26500      | 18.86          | -23.71       | ≤-1.14      | PASS    |
|          |         | 2479.8         | Reference       | 18.61          | 18.61        | ---         | PASS    |
|          |         |                | 30~1000         | 18.61          | -38.62       | ≤-1.39      | PASS    |
|          |         |                | 1000~26500      | 18.61          | -23.47       | ≤-1.39      | PASS    |

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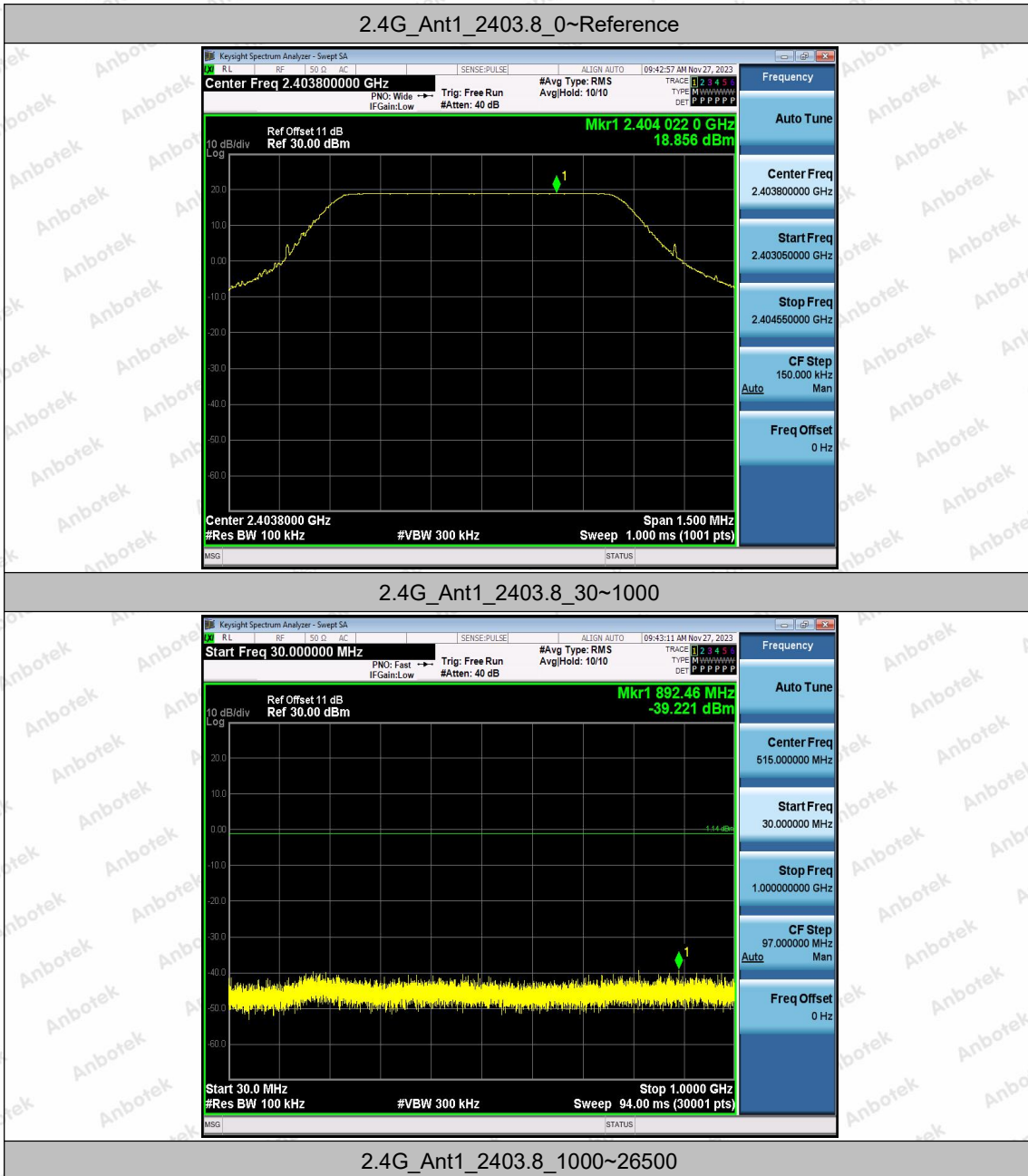
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## Test Graphs

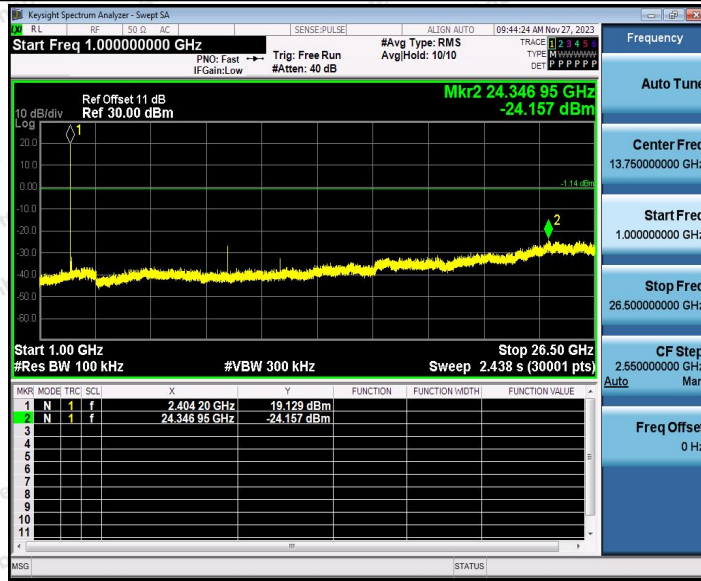


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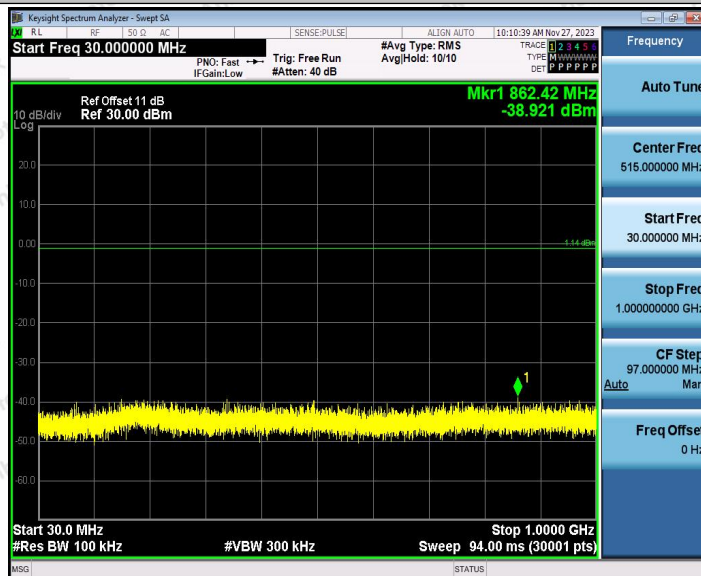




2.4G\_Ant1\_2440.8\_0~Reference



2.4G\_Ant1\_2440.8\_30~1000

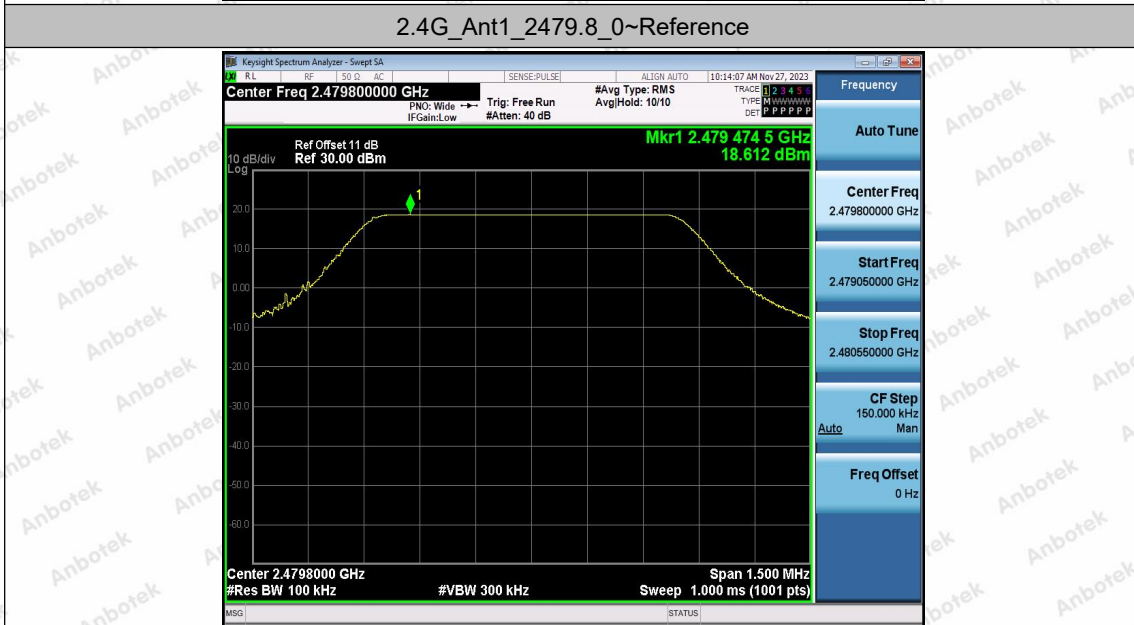
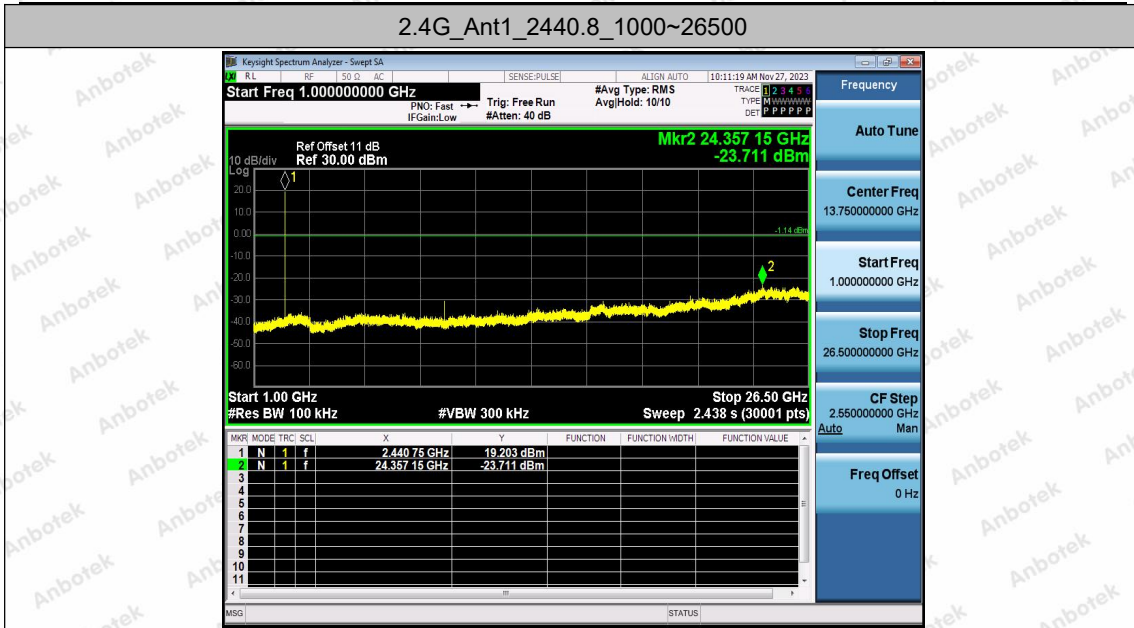


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**2.4G\_Ant1\_2479.8\_30~1000**

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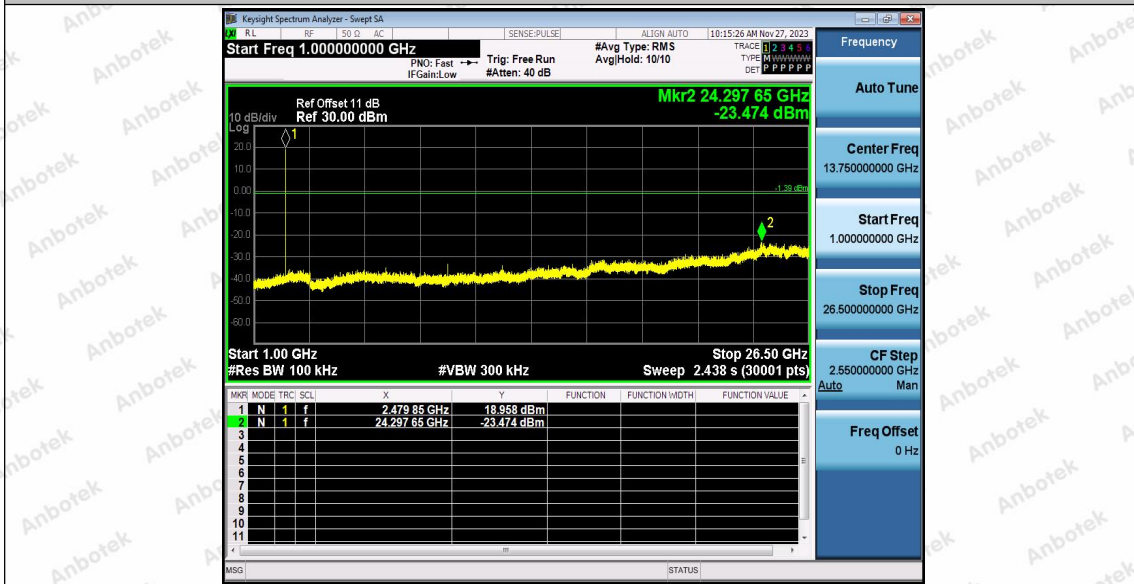
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2.4G\_Ant1\_2479.8\_1000~26500



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## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| 2.4G     | Ant1    | 2403.8         | 5.89         | 6.66        | 88.44          | 0.53                  |
|          |         | 2440.8         | 5.89         | 6.66        | 88.44          | 0.53                  |
|          |         | 2479.8         | 5.90         | 6.67        | 88.46          | 0.53                  |

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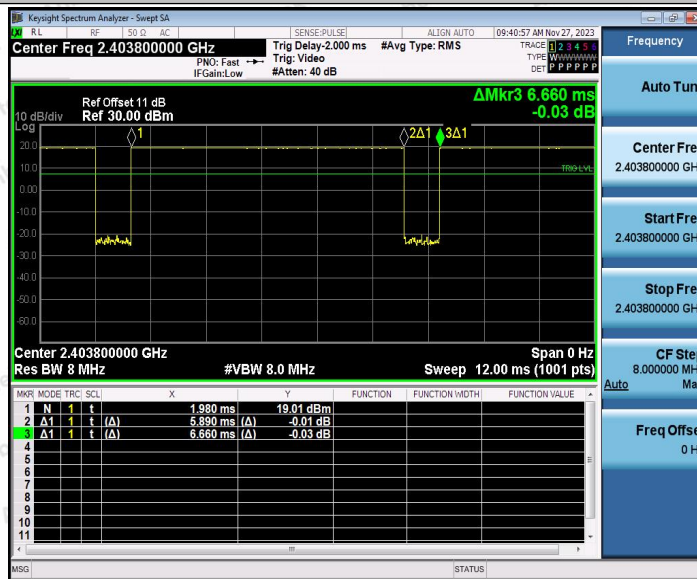
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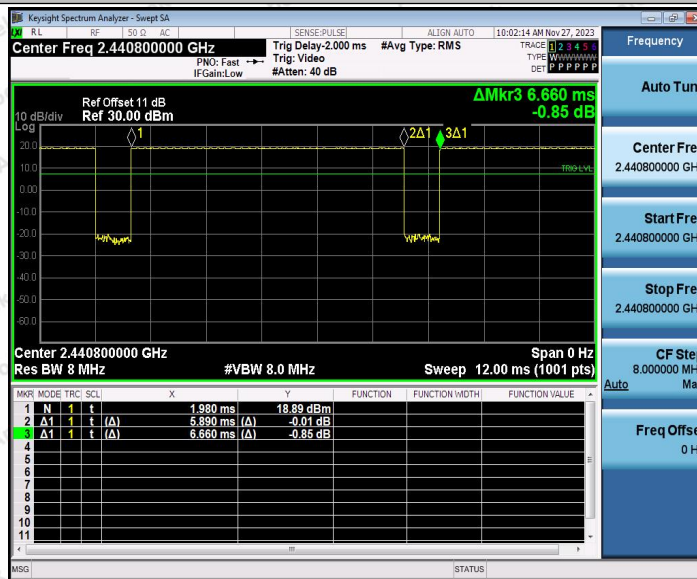


## Test Graphs

2.4G\_Ant1\_2403.8



2.4G\_Ant1\_2440.8



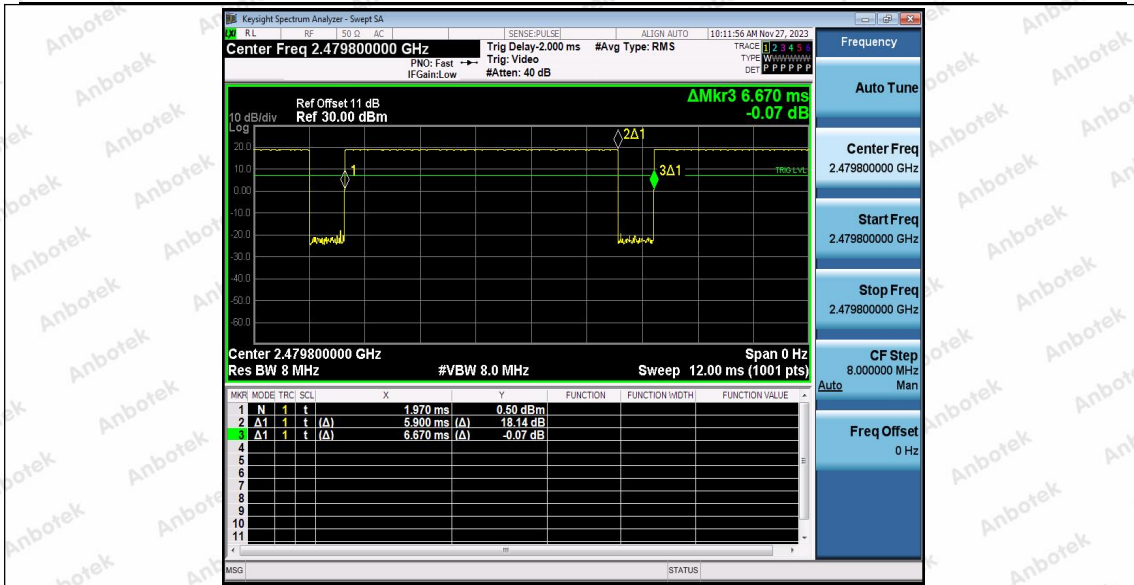
2.4G\_Ant1\_2479.8

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