

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20269003 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.11.30      | Finish Test Date:  | 2022.12.8         |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 24.3℃           | Relative Humidity: | 43 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## 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    | 2402.4         | 0.777            | 2402.001 | 2402.778 | ---        | ---     |
|          |         | 2441.4         | 0.765            | 2440.998 | 2441.763 | ---        | ---     |
|          |         | 2479.4         | 0.762            | 2478.989 | 2479.751 | ---        | ---     |



## Test Graphs

2.4G\_Ant1\_2402.4



2.4G\_Ant1\_2441.4



2.4G\_Ant1\_2479.4

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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    | 2402.4         | 0.73664   | 2402.0188 | 2402.7554 | ---        | ---     |
|          |         | 2441.4         | 0.73440   | 2441.0114 | 2441.7458 | ---        | ---     |
|          |         | 2479.4         | 0.71725   | 2479.0169 | 2479.7342 | ---        | ---     |



## Test Graphs

2.4G\_Ant1\_2402.4



2.4G\_Ant1\_2441.4



2.4G\_Ant1\_2479.4

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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    | 2402.4         | 29.68                     | ≤30                  | PASS    |
|           |         | 2441.4         | 29.29                     | ≤30                  | PASS    |
|           |         | 2479.4         | 28.78                     | ≤30                  | PASS    |



## Test Graphs

2.4G\_Ant1\_2402.4



2.4G\_Ant1\_2441.4



2.4G\_Ant1\_2479.4

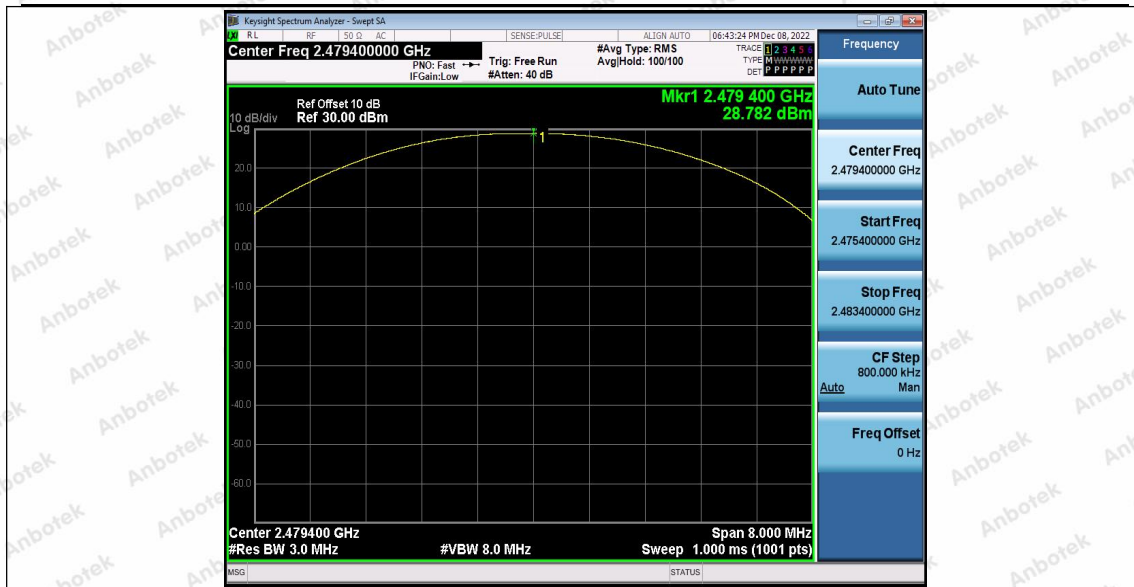
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## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 1.008       | ≥0.777     | PASS    |

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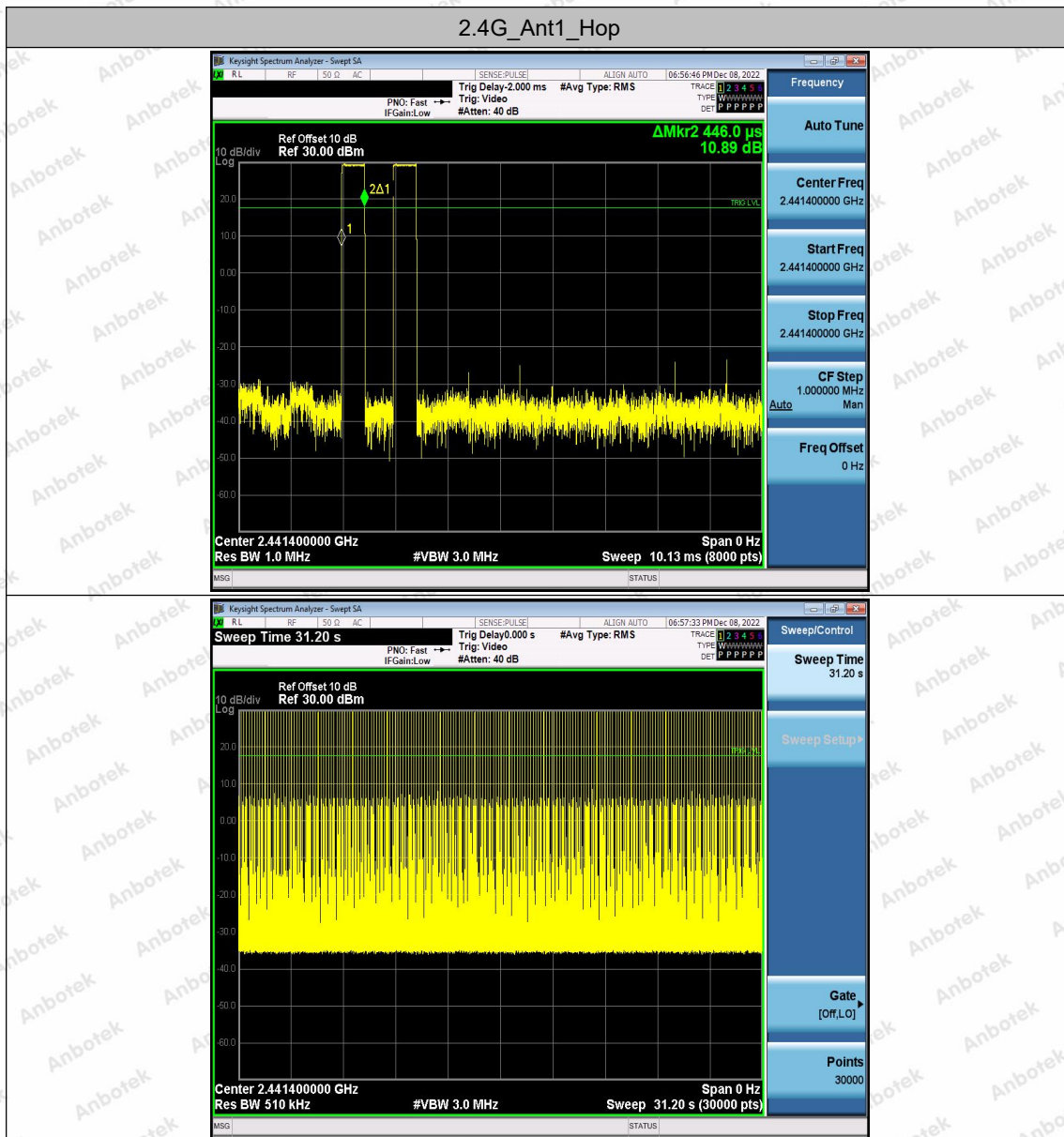
## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| 2.4G     | Ant1    | Hop            | 0.446              | 197                | 0.088     | ≤0.4     | PASS    |



## Test Graphs



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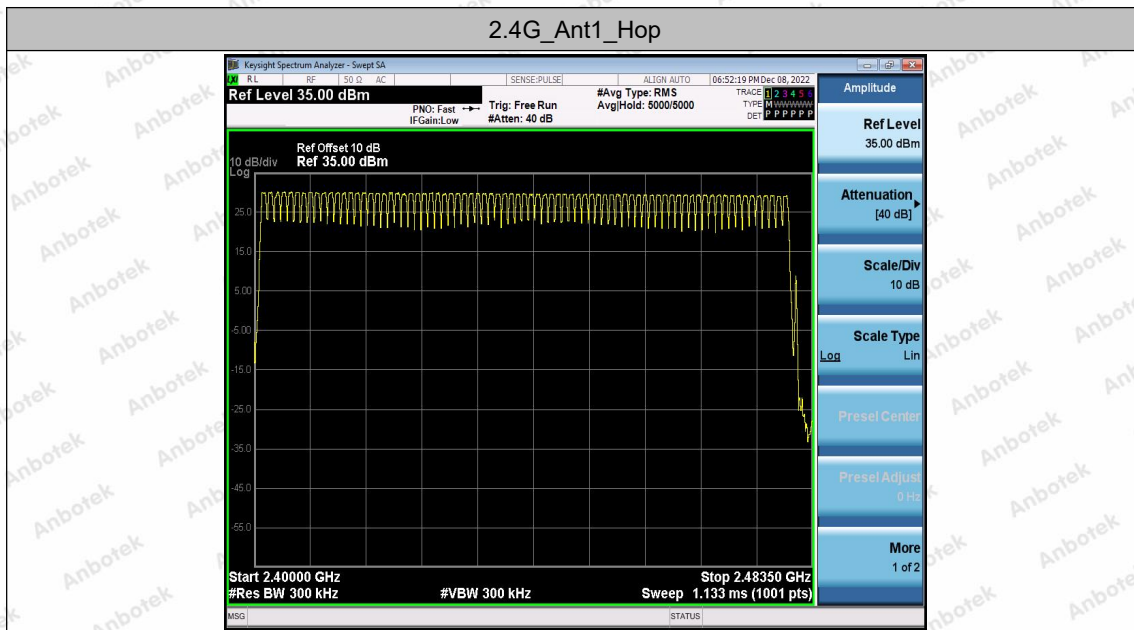
## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 78          | ≥15        | PASS    |



## Test Graphs



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## Appendix G: Band edge measurements

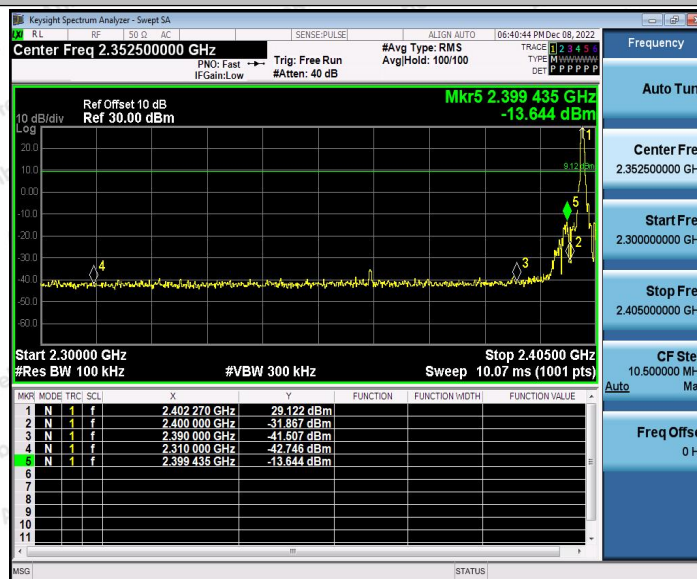
### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| 2.4G     | Ant1    | Low    | 2402.4         | 29.12          | -13.64       | ≤9.12       | PASS    |
|          |         | High   | 2479.4         | 28.27          | -34.48       | ≤8.27       | PASS    |
|          |         | Low    | Hop_2402       | 28.91          | -28.76       | ≤8.91       | PASS    |
|          |         | High   | Hop_2480       | 29.16          | -35.04       | ≤9.16       | PASS    |

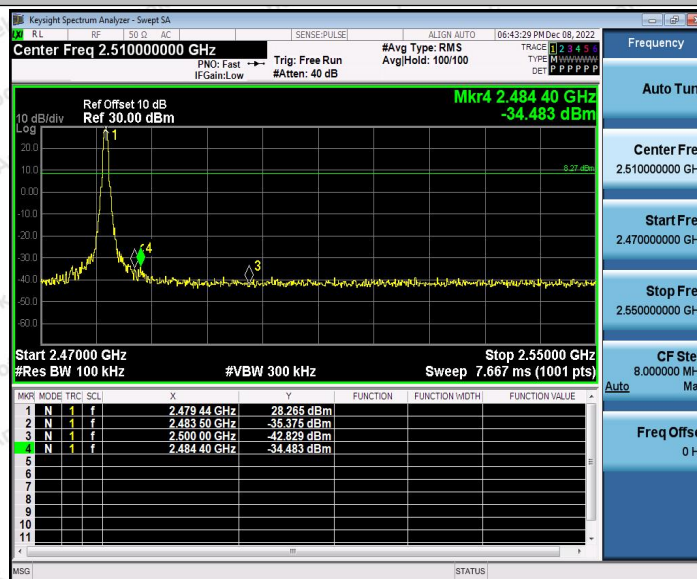


## Test Graphs

2.4G\_Ant1\_Low\_2402.4



2.4G\_Ant1\_High\_2479.4



2.4G\_Ant1\_Low\_Hop\_2402

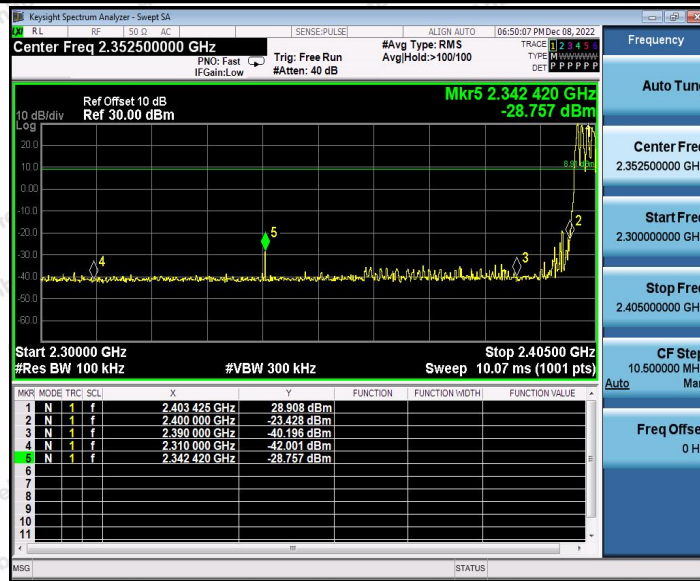
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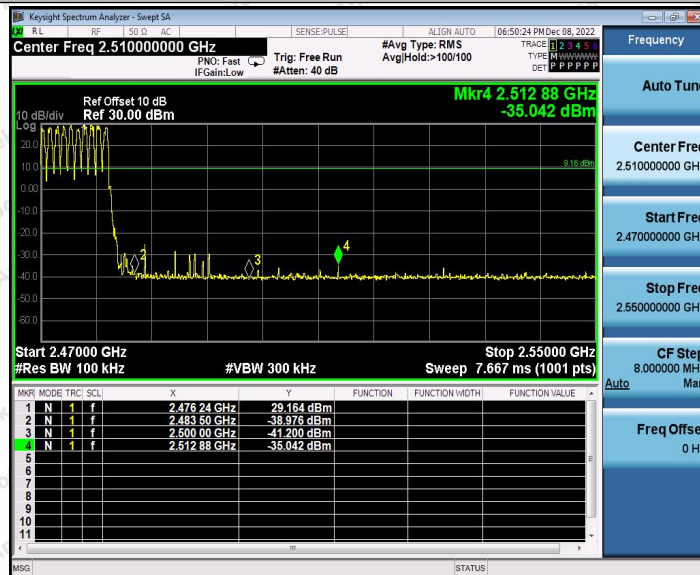


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2.4G\_Ant1\_High\_Hop\_2480



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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    | 2402.4         | Reference       | 29.26          | 29.26        | ---         | PASS    |
|          |         |                | 30~1000         | 29.26          | -59.57       | ≤9.26       | PASS    |
|          |         |                | 1000~26500      | 29.26          | -41.78       | ≤9.26       | PASS    |
|          |         | 2441.4         | Reference       | 28.82          | 28.82        | ---         | PASS    |
|          |         |                | 30~1000         | 28.82          | -59.46       | ≤8.82       | PASS    |
|          |         |                | 1000~26500      | 28.82          | -43.11       | ≤8.82       | PASS    |
|          |         | 2479.4         | Reference       | 28.02          | 28.02        | ---         | PASS    |
|          |         |                | 30~1000         | 28.02          | -59.6        | ≤8.02       | PASS    |
|          |         |                | 1000~26500      | 28.02          | -43.97       | ≤8.02       | PASS    |



## Test Graphs



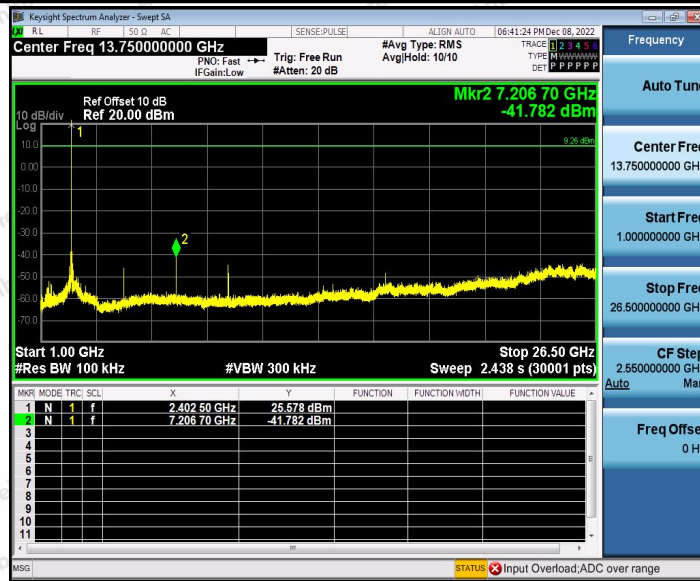
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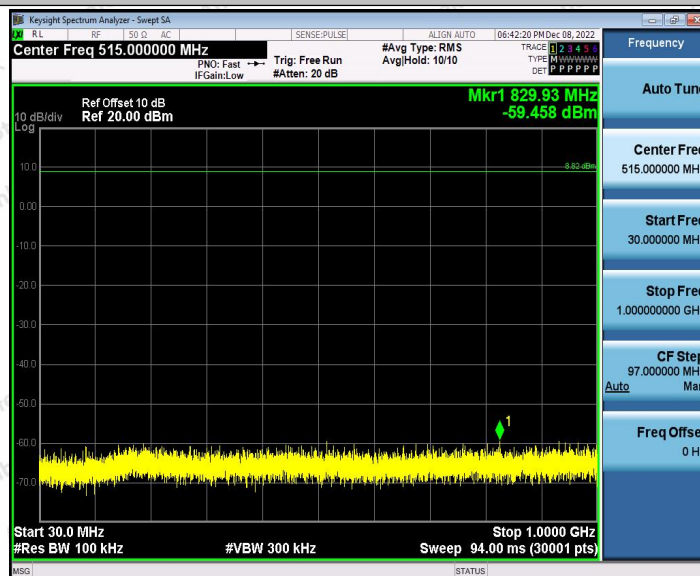




2.4G\_Ant1\_2441.4\_0~Reference



2.4G\_Ant1\_2441.4\_30~1000



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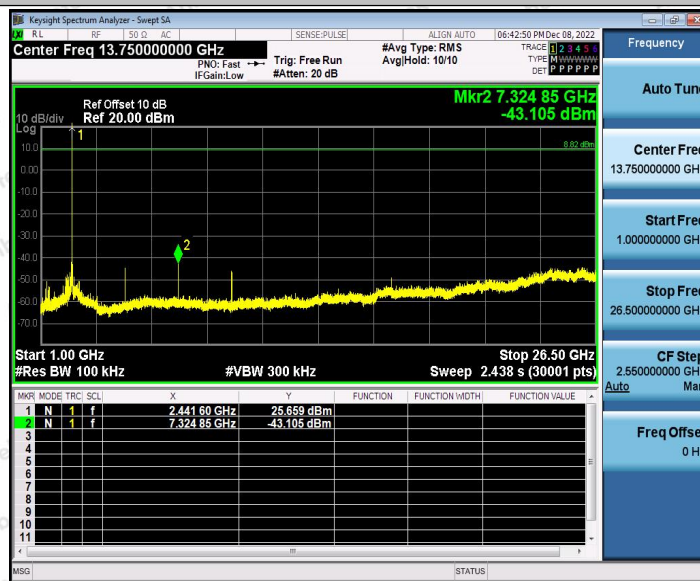
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2.4G\_Ant1\_2441.4\_1000~26500



2.4G\_Ant1\_2479.4\_0~Reference



2.4G\_Ant1\_2479.4\_30~1000

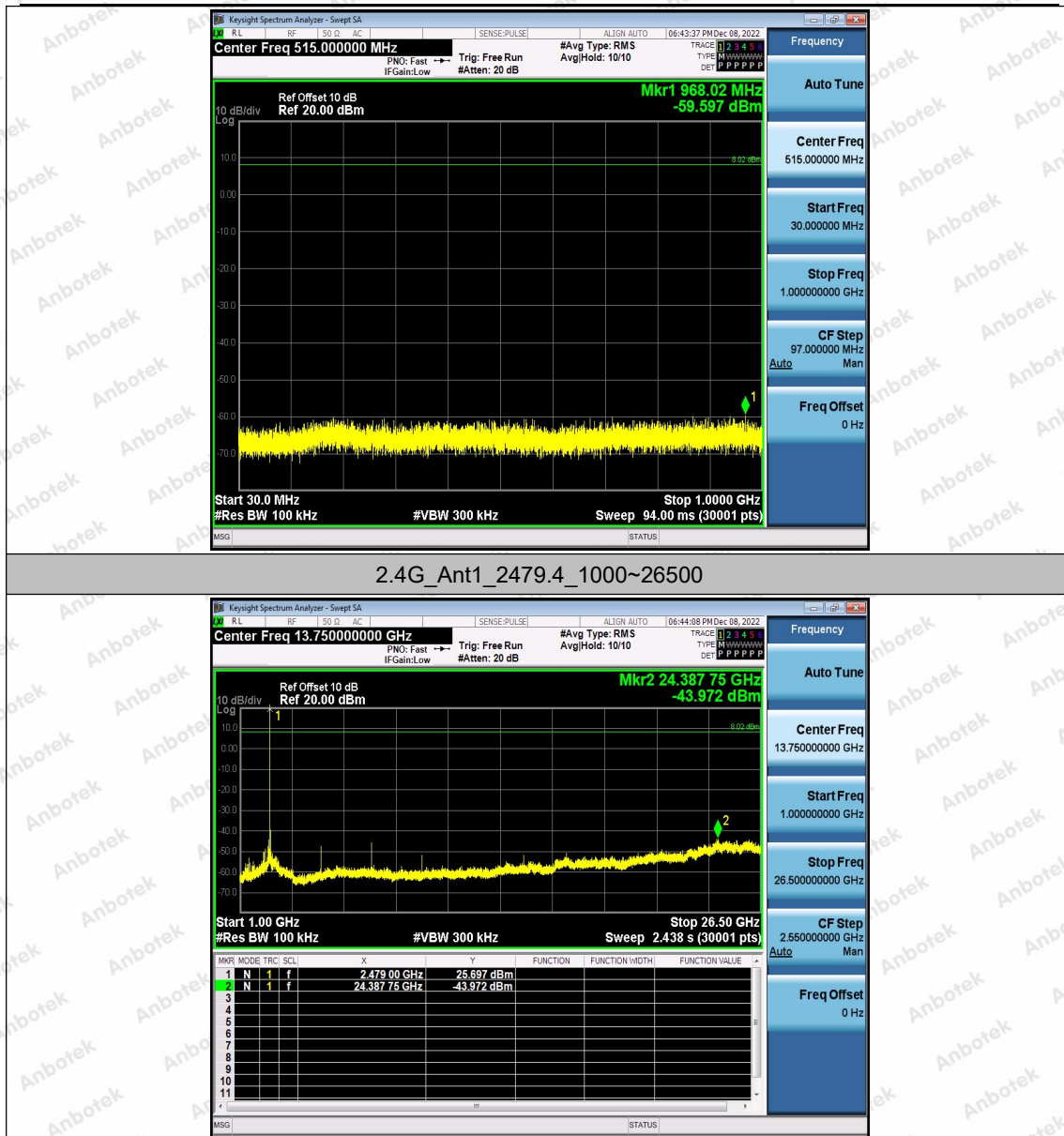
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## Appendix I: Duty Cycle

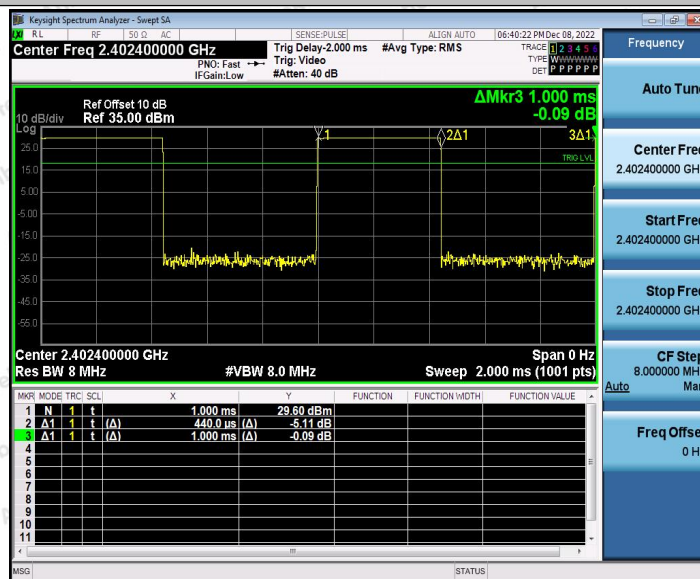
### Test Result

| TestMode | Antenna | Frequency[M<br>Hz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|--------------------|-----------------|----------------|-------------------|--------------------------|
| 2.4G     | Ant1    | 2402.4             | 0.44            | 1.00           | 44.00             | 3.57                     |
|          |         | 2441.4             | 0.45            | 1.00           | 45.00             | 3.47                     |
|          |         | 2479.4             | 0.44            | 0.99           | 44.44             | 3.52                     |

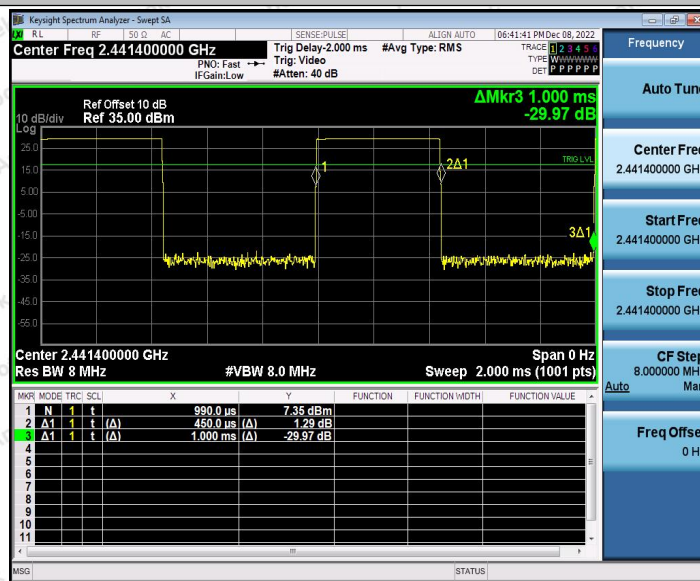


## Test Graphs

2.4G\_Ant1\_2402.4



2.4G\_Ant1\_2441.4



2.4G\_Ant1\_2479.4

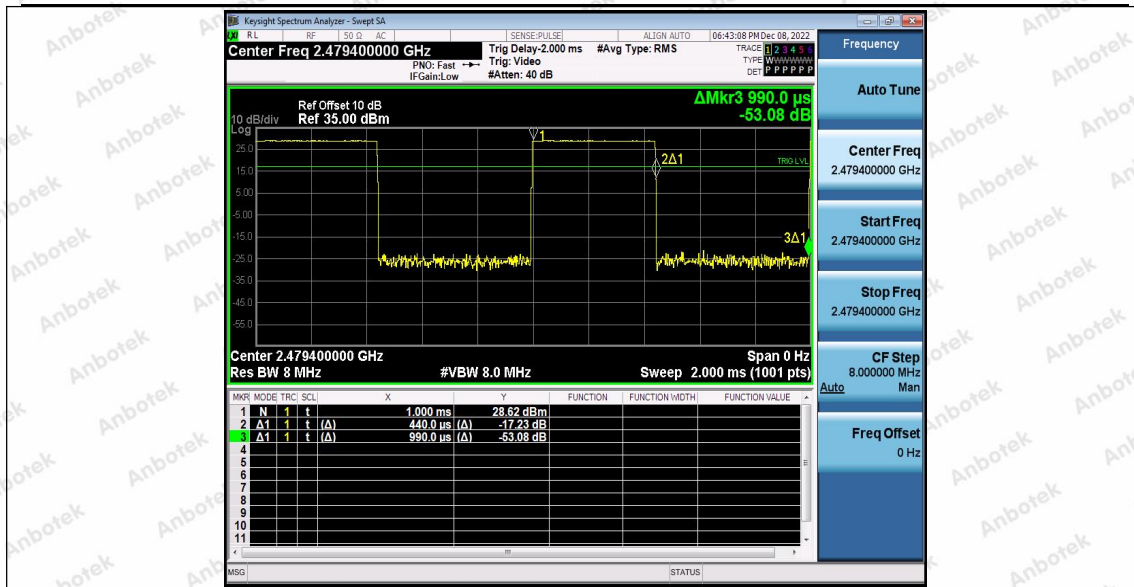
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