

Appendix Test Data

| | | | |
|------------------|-----------------|--------------------|-------------------|
| Report No.: | 18220WC20288301 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2022.12.19 | Finish Test Date: | 2022.12.24 |
| Test Engineer: | <i>Jony.He</i> | Auditor: | <i>Edward.Pan</i> |
| Temperature: | 23.3°C | Relative Humidity: | 35 % |
| Pressure: | 1012 hPa | | |

Appendix A: 20dB Emission Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | 20db EBW[MHz] | FL[MHz] | FH[MHz] |
|-----------|---------|----------------|---------------|----------|----------|
| 2.4G | Ant1 | 2402 | 1.038 | 2401.469 | 2402.507 |
| | | 2441 | 1.014 | 2440.487 | 2441.501 |
| | | 2480 | 1.017 | 2479.490 | 2480.507 |

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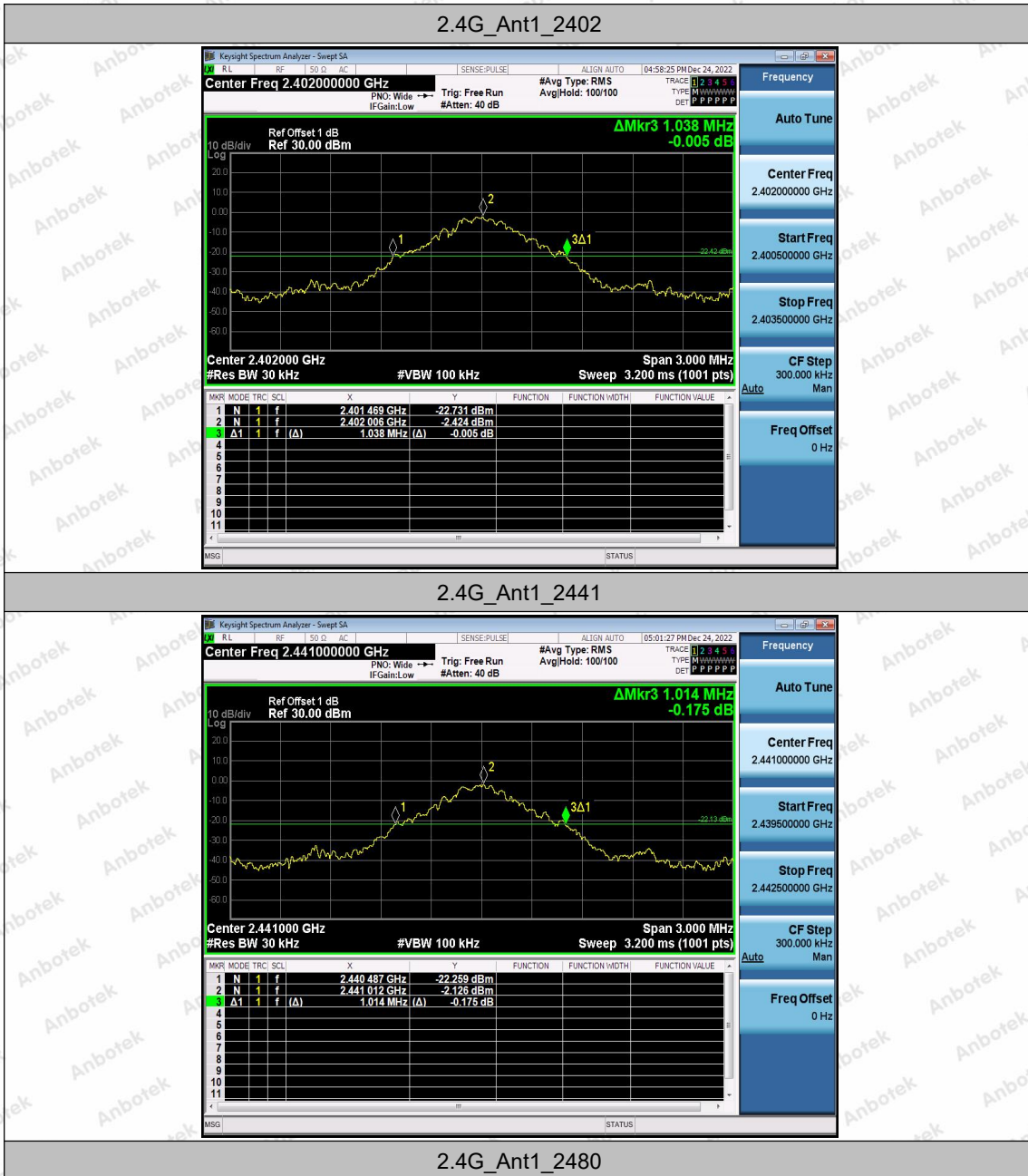
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Test Graphs



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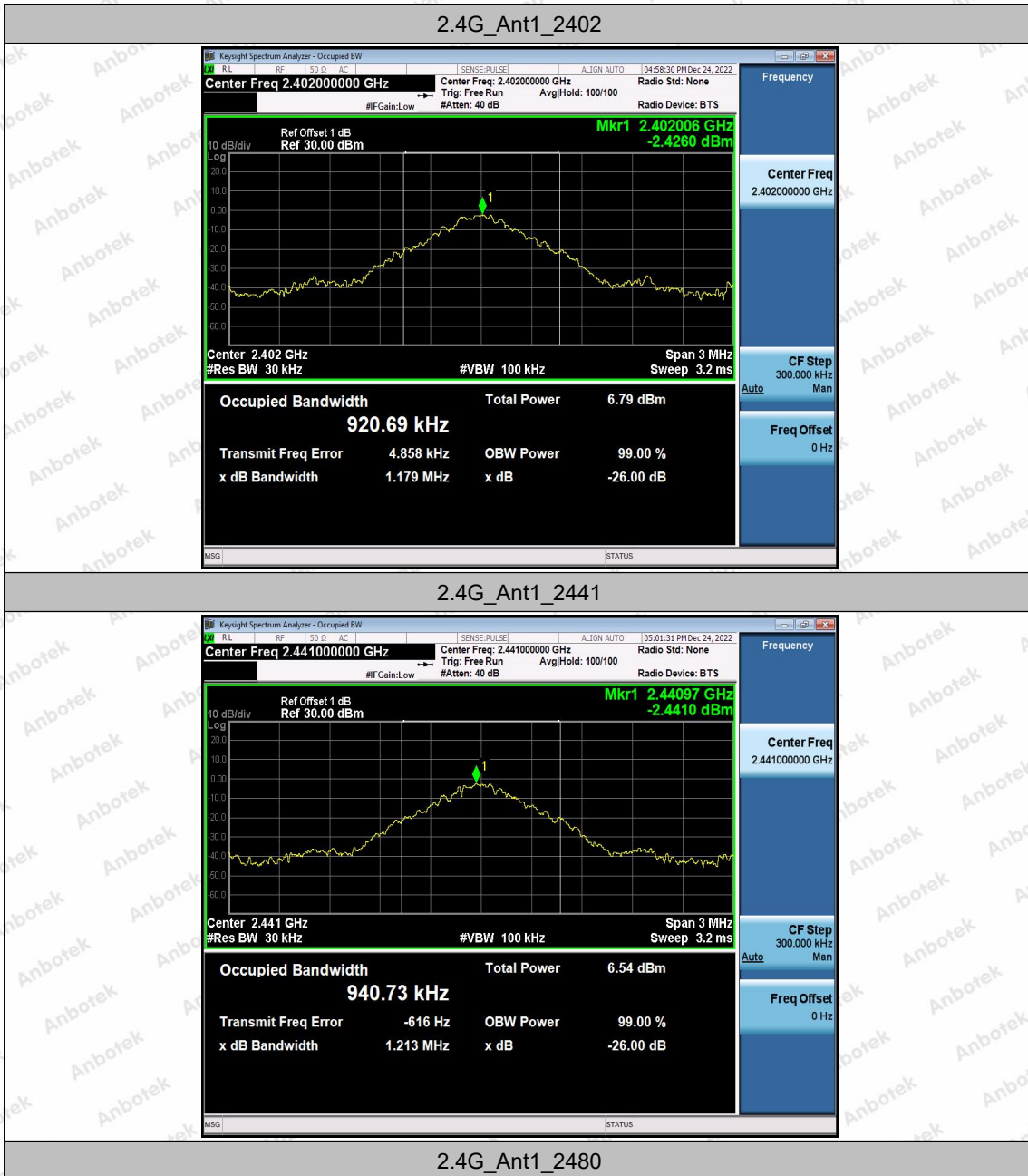
Appendix B: Occupied Channel Bandwidth

Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] |
|-----------|---------|----------------|-----------|-----------|-----------|
| 2.4G | Ant1 | 2402 | 0.92069 | 2401.5445 | 2402.4652 |
| | | 2441 | 0.94073 | 2440.5290 | 2441.4697 |
| | | 2480 | 0.93182 | 2479.5311 | 2480.4629 |



Test Graphs



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Appendix C: Maximum conducted output power

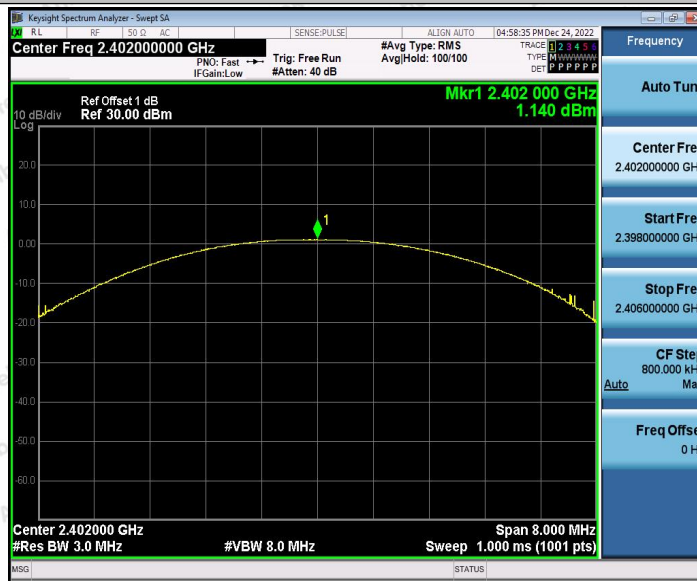
Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| 2.4G | Ant1 | 2402 | 1.14 | ≤30 | PASS |
| | | 2441 | 1.13 | ≤30 | PASS |
| | | 2480 | 0.79 | ≤30 | PASS |



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



2.4G_Ant1_2480

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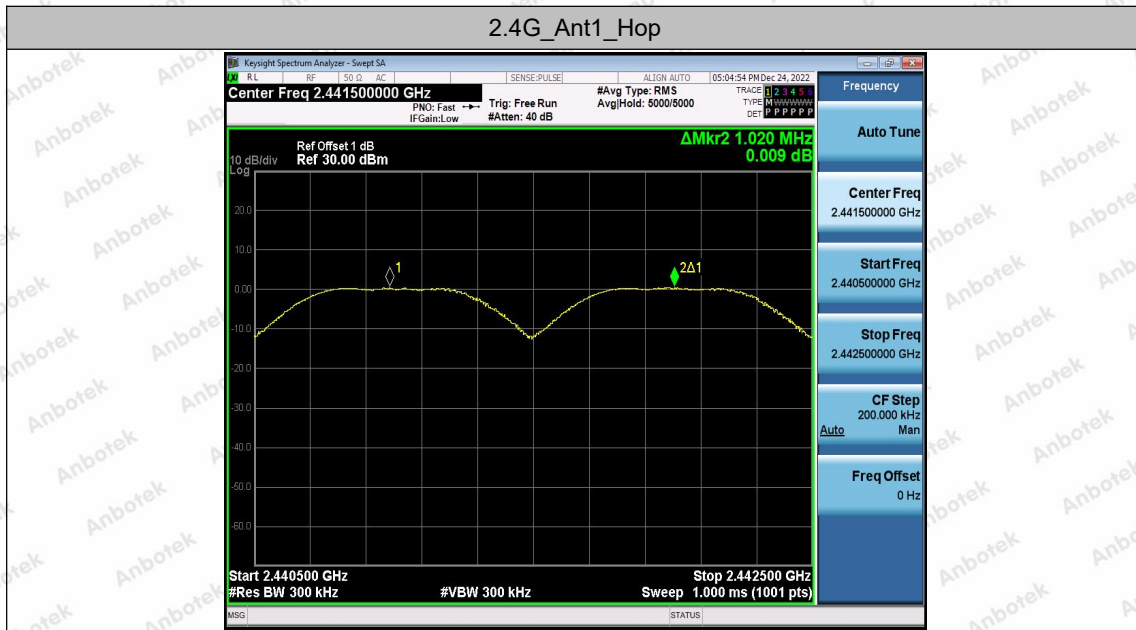


Appendix D: Carrier frequency separation

Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|-------------|------------|---------|
| 2.4G | Ant1 | Hop | 1.02 | ≥0.692 | PASS |

Test Graphs

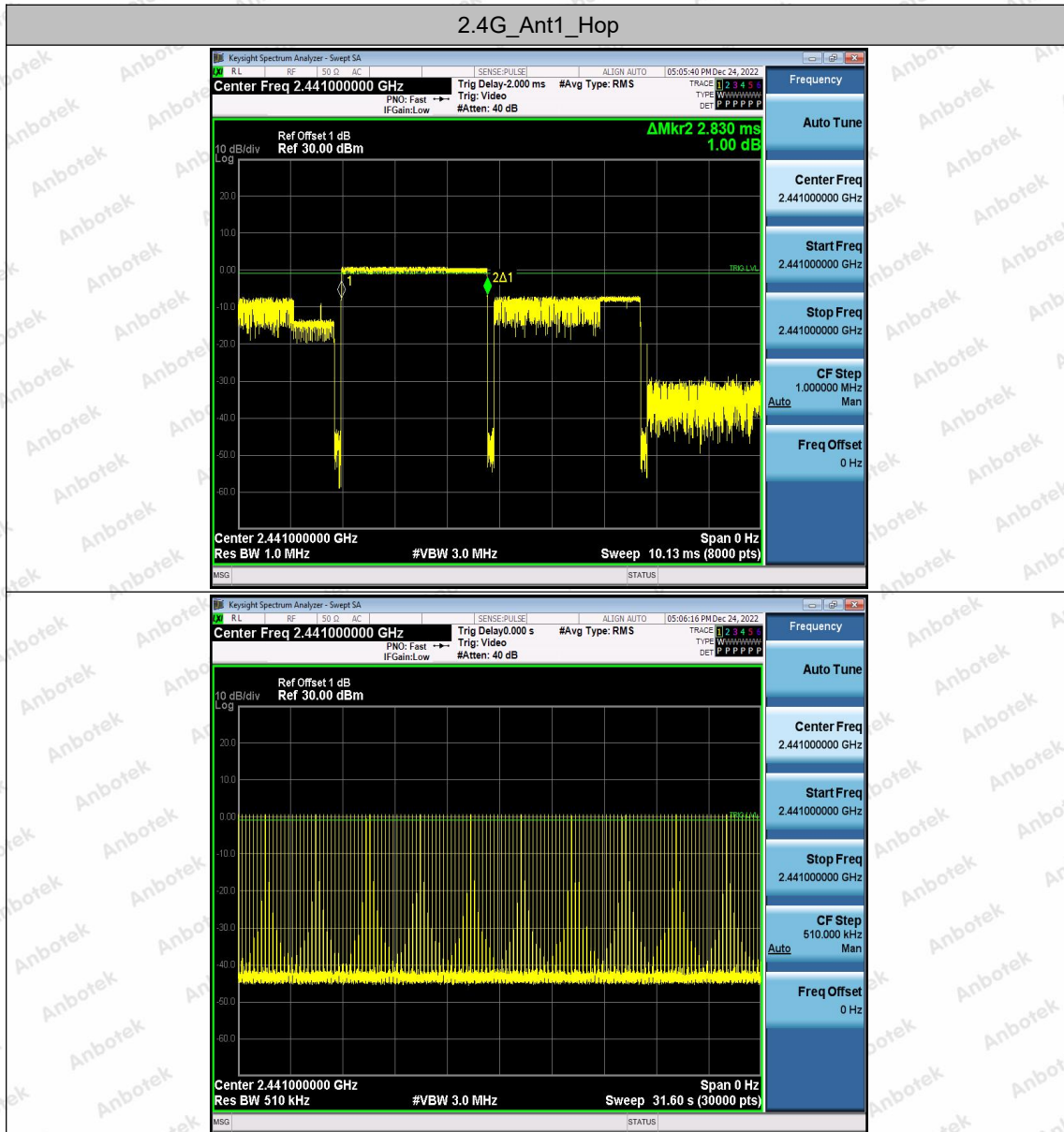


Appendix E: Time of occupancy

Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|-----------------|-----------------|-----------|----------|---------|
| 2.4G | Ant1 | Hop | 2.830 | 135 | 0.382 | ≤0.4 | PASS |

Test Graphs

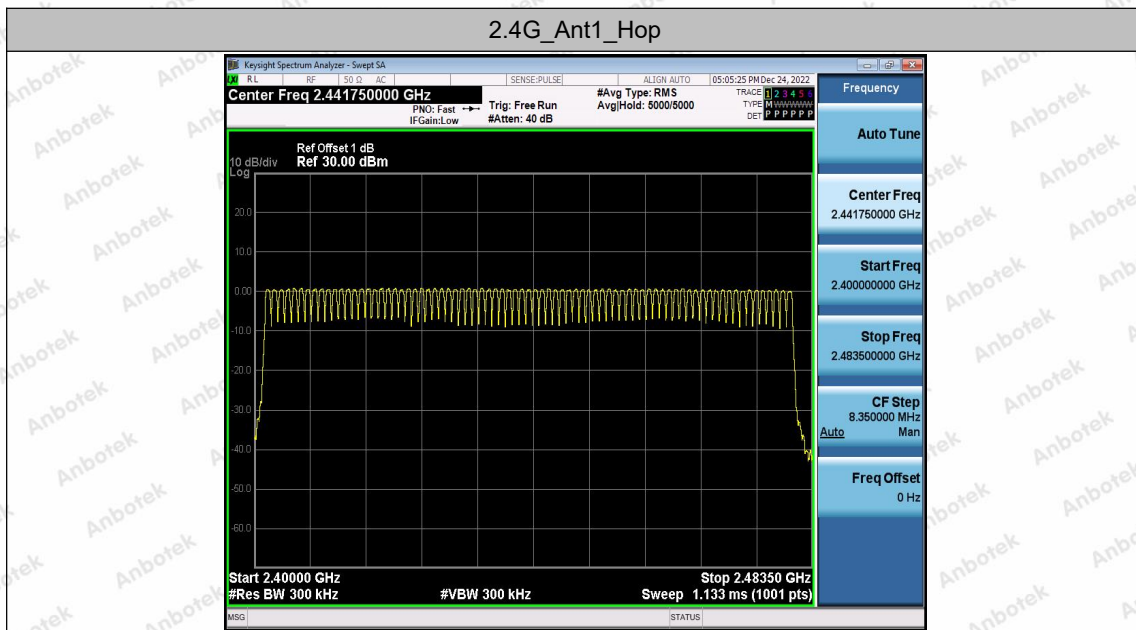


Appendix F: Number of hopping channels

Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|-----------|---------|----------------|-------------|------------|---------|
| 2.4G | 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 |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| 2.4G | Ant1 | Low | 2402 | 0.01 | -38.2 | ≤-20 | PASS |
| | | High | 2441 | -52.40 | -52.4 | ≤-72.4 | FAIL |
| | | | 2480 | -0.27 | -42.65 | ≤-20.27 | PASS |
| | | Low | Hop_2402 | -0.15 | -57.1 | ≤-20.15 | PASS |
| | | High | Hop_2480 | -0.24 | -43.44 | ≤-20.24 | PASS |

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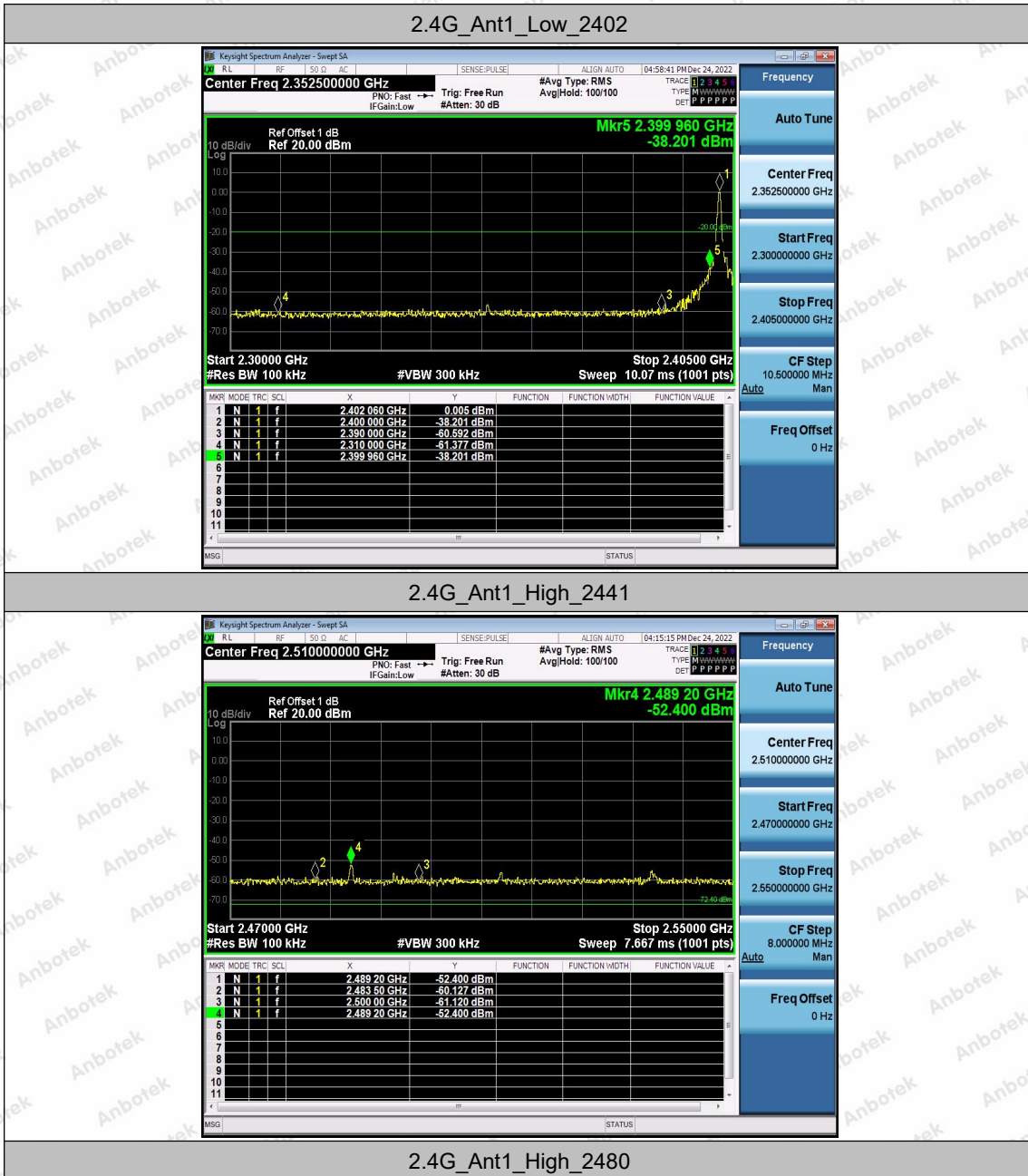
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Test Graphs

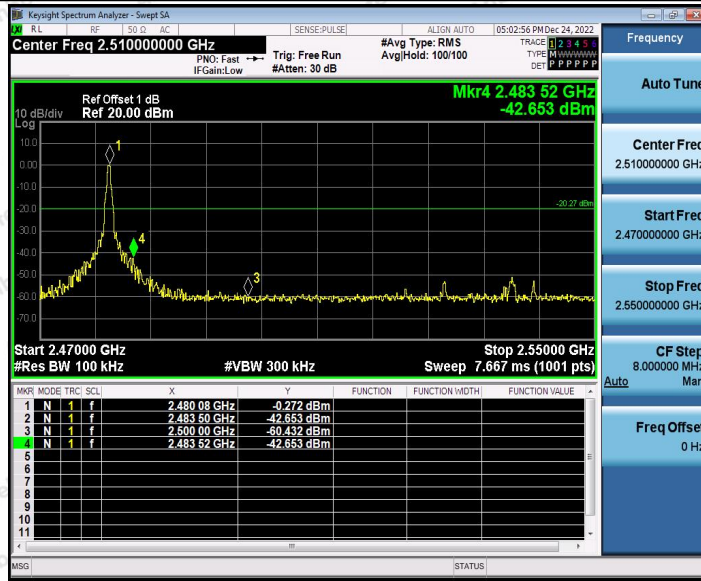


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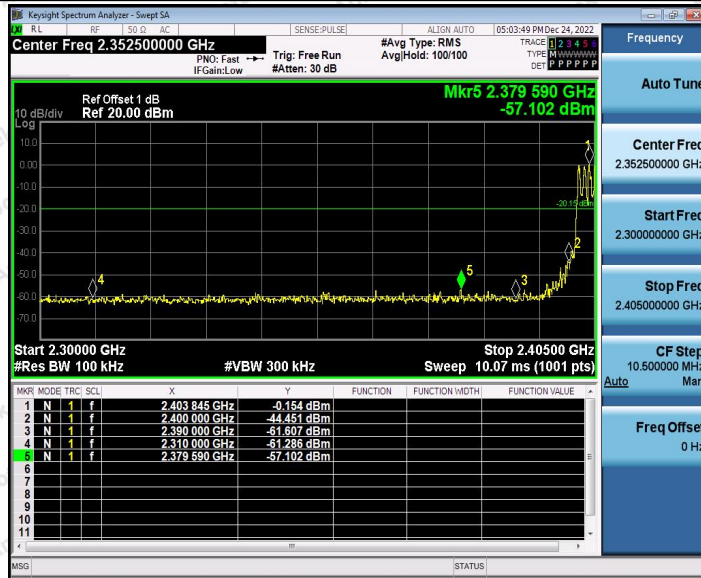
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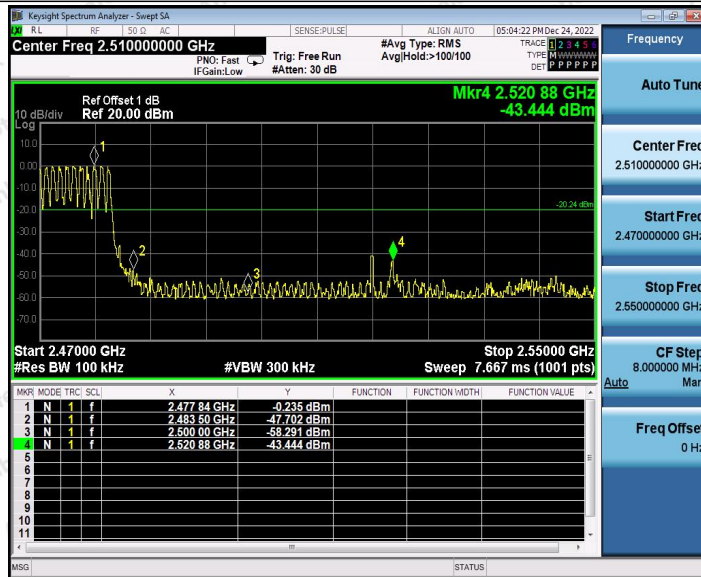




2.4G_Ant1_Low_Hop_2402



2.4G_Ant1_High_Hop_2480



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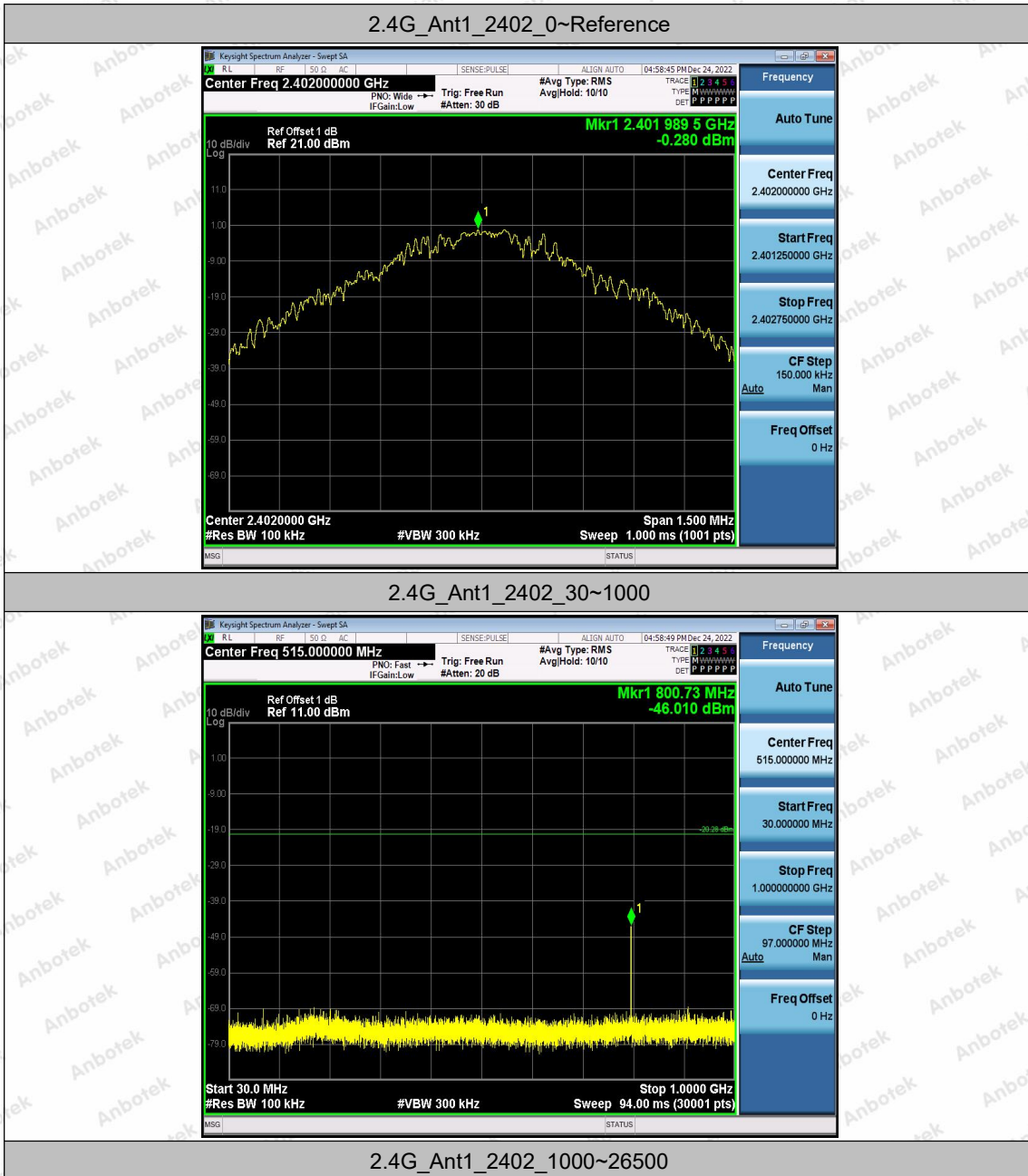
Appendix H: Conducted Spurious Emission

Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 2.4G | Ant1 | 2402 | Reference | -0.28 | -0.28 | --- | PASS |
| | | | 30~1000 | -0.28 | -46.01 | ≤-20.28 | PASS |
| | | | 1000~26500 | -0.28 | -36.56 | ≤-20.28 | PASS |
| | | 2441 | Reference | -0.63 | -0.63 | --- | PASS |
| | | | 30~1000 | -0.63 | -45.11 | ≤-20.63 | PASS |
| | | | 1000~26500 | -0.63 | -36.4 | ≤-20.63 | PASS |
| | | 2480 | Reference | -0.80 | -0.80 | --- | PASS |
| | | | 30~1000 | -0.80 | -44.8 | ≤-20.8 | PASS |
| | | | 1000~26500 | -0.80 | -37.16 | ≤-20.8 | PASS |



Test Graphs



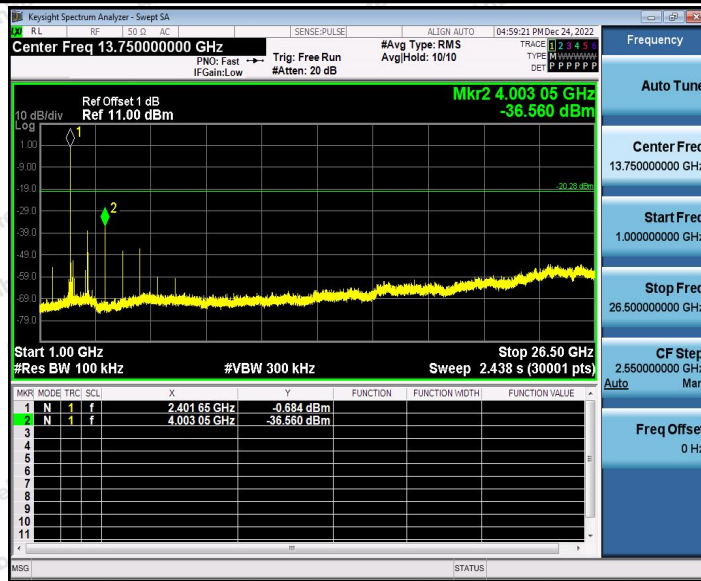
2.4G_Ant1_2402_1000~26500

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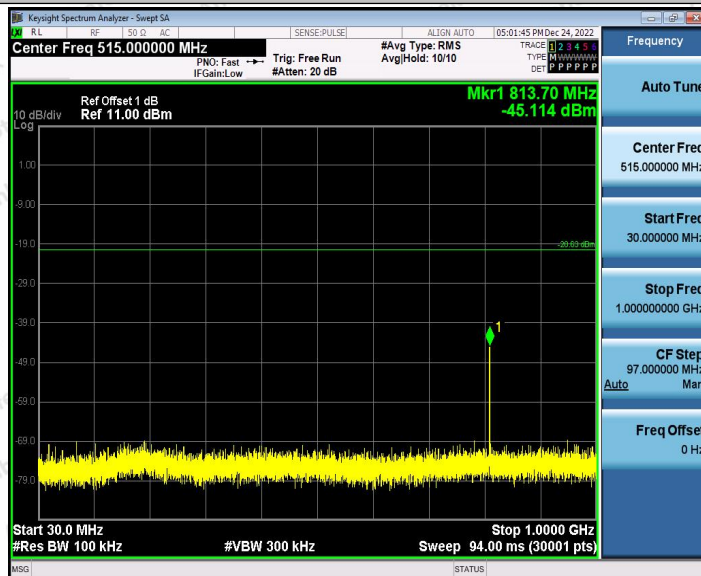




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000

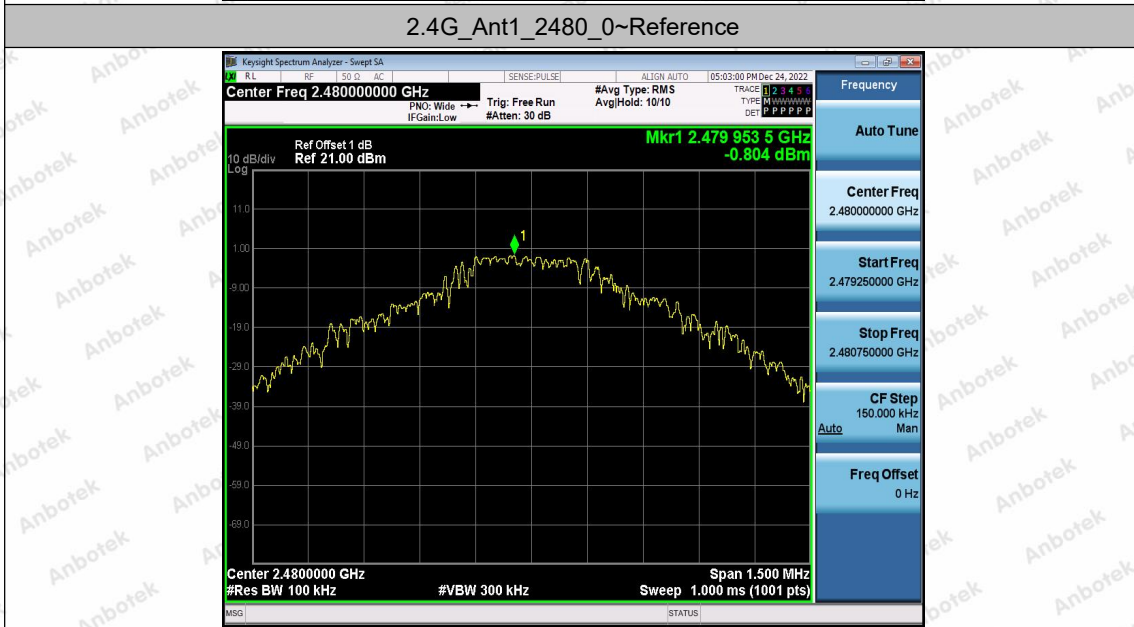
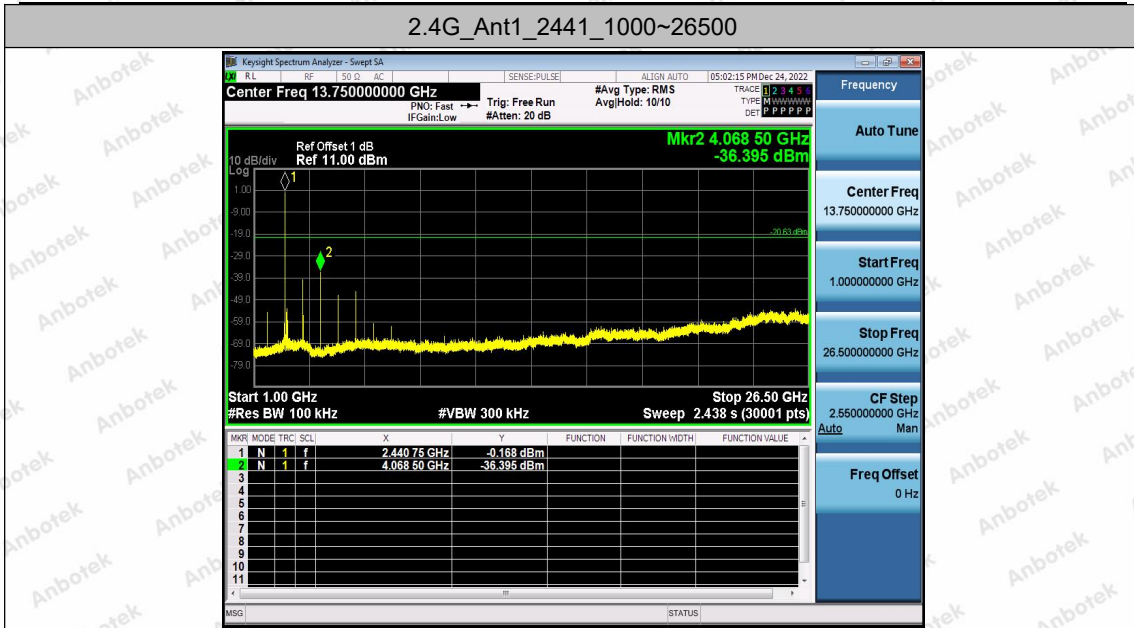


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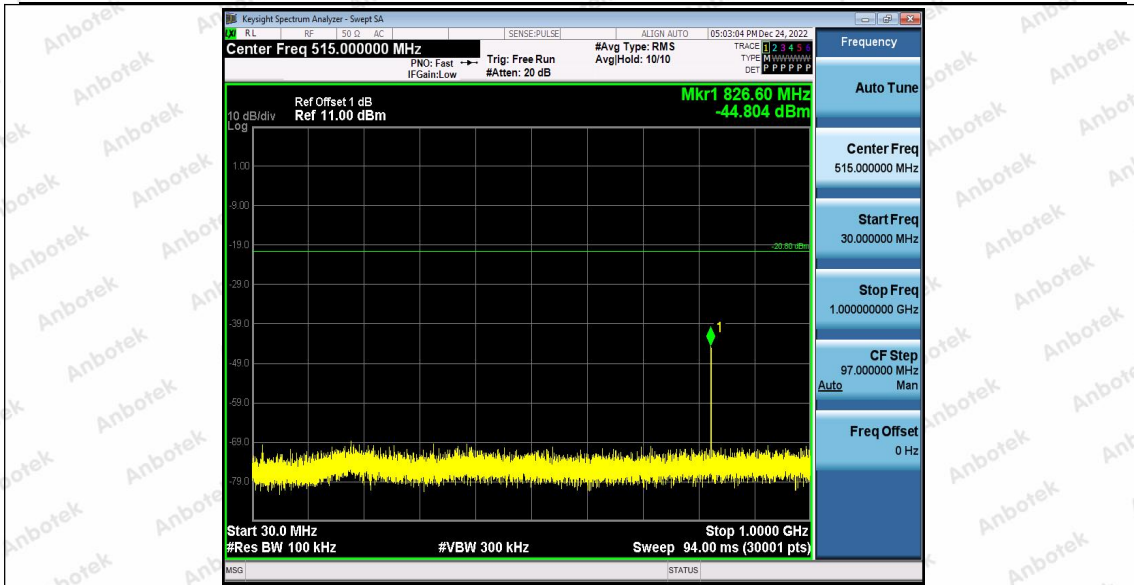
2.4G_Ant1_2480_30~1000

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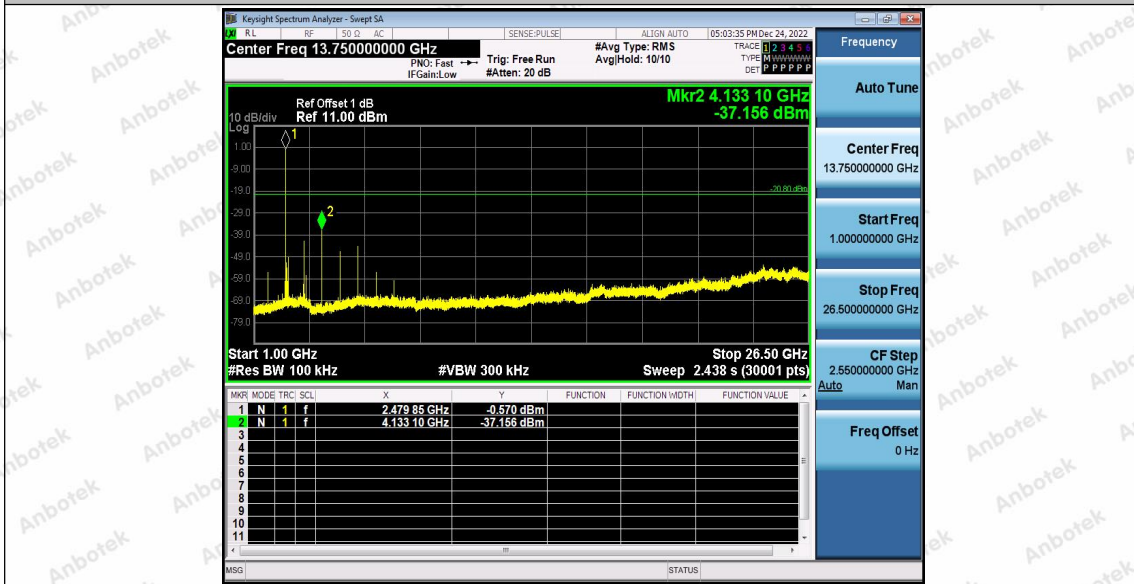
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2.4G_Ant1_2480_1000~26500



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Appendix I: Duty Cycle

Test Result

| Test Mode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| 2.4G | Ant1 | 2402 | 1.91 | 2.12 | 90.09 | 0.45 |
| | | 2441 | 1.91 | 2.12 | 90.09 | 0.45 |
| | | 2480 | 1.91 | 2.12 | 90.09 | 0.45 |

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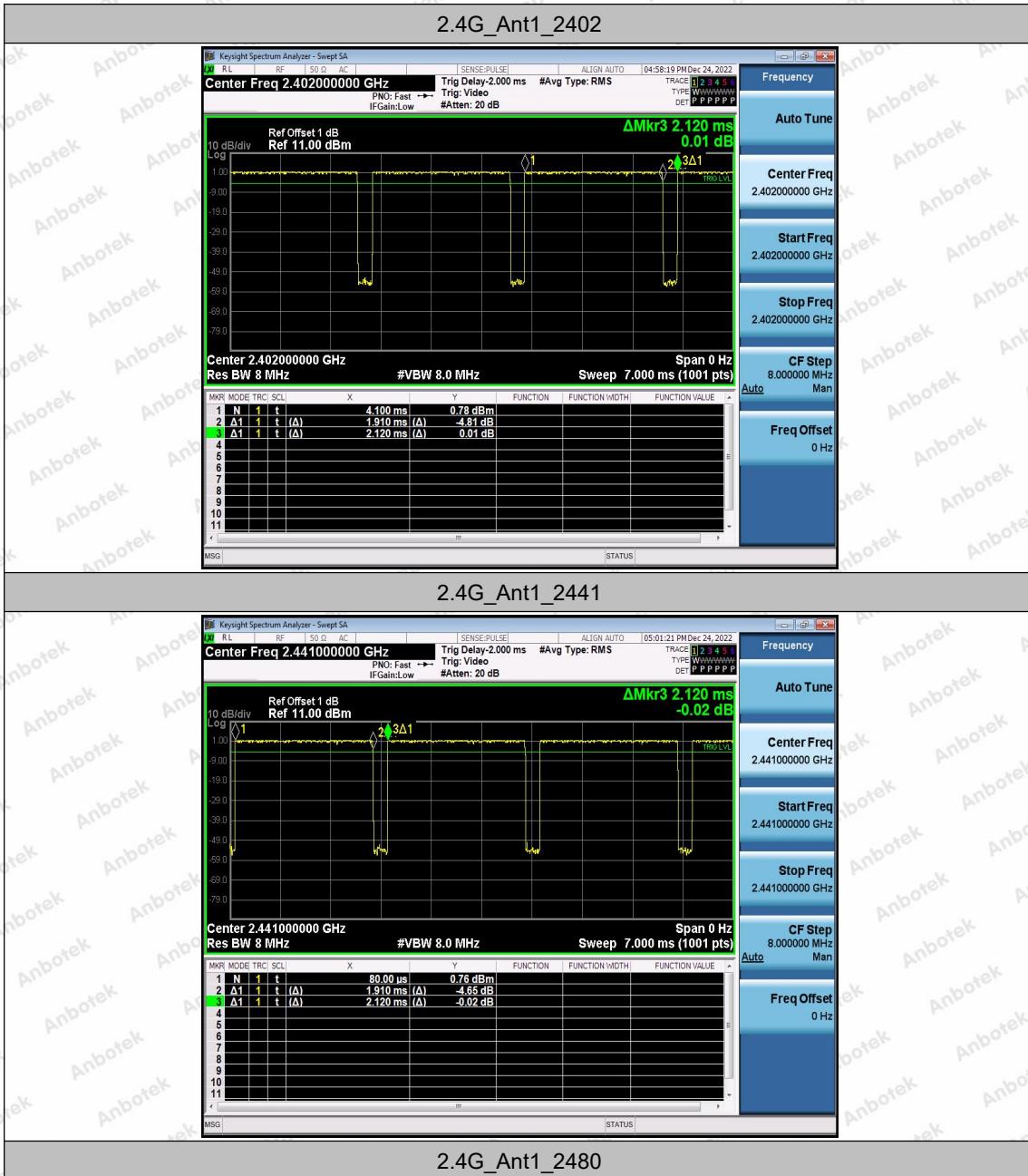
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Test Graphs

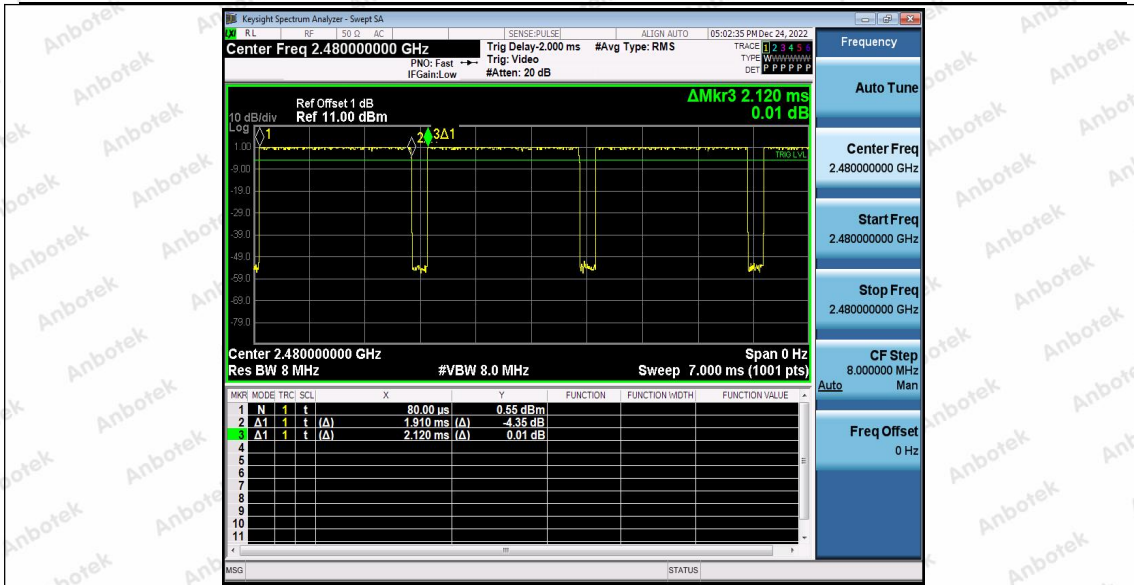


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