

Appendix Test Data

|                  |                  |                    |             |
|------------------|------------------|--------------------|-------------|
| Report No.:      | 1812C40008312501 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.8.20        | Finish Test Date:  | 2024.9.12   |
| Test Engineer:   | Joker Wang       | Auditor:           | Justin Feng |
| Temperature:     | 24.6℃            | Relative Humidity: | 51%         |
| Pressure:        | 101kPa           |                    |             |

Appendix A: 20dB Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.822            | 2401.544 | 2402.366 | ---        | ---     |
| DH5      | Ant1    | 2441           | 0.843            | 2440.529 | 2441.372 | ---        | ---     |
| DH5      | Ant1    | 2480           | 0.855            | 2479.523 | 2480.378 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.308            | 2401.349 | 2402.657 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.302            | 2440.349 | 2441.651 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.305            | 2479.349 | 2480.654 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.275            | 2401.373 | 2402.648 | ---        | ---     |
| 3DH5     | Ant1    | 2441           | 1.224            | 2440.421 | 2441.645 | ---        | ---     |
| 3DH5     | Ant1    | 2480           | 1.218            | 2479.427 | 2480.645 | ---        | ---     |



## Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480

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2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480

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3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

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## Appendix B: 99% Occupied Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.75925   | 2401.6485 | 2402.4077 | ---        | ---     |
| DH5      | Ant1    | 2441           | 0.77203   | 2440.6401 | 2441.4121 | ---        | ---     |
| DH5      | Ant1    | 2480           | 0.75303   | 2479.5812 | 2480.3342 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.2251    | 2401.3938 | 2402.6189 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.2231    | 2440.3919 | 2441.6150 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.2227    | 2479.3924 | 2480.6151 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.1212    | 2401.4521 | 2402.5733 | ---        | ---     |
| 3DH5     | Ant1    | 2441           | 1.0904    | 2440.4529 | 2441.5433 | ---        | ---     |
| 3DH5     | Ant1    | 2480           | 1.0911    | 2479.4548 | 2480.5459 | ---        | ---     |



## Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480

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2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480





3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

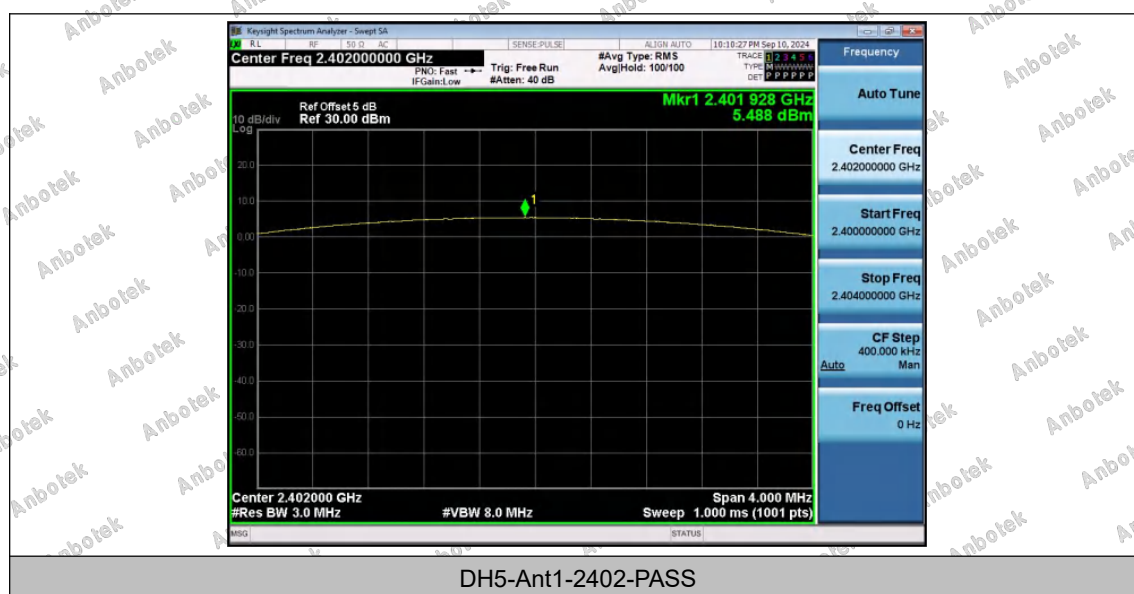


## Appendix C: Maximum Conducted Output Power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402           | 5.49                      | ≤30                  | PASS    |
| DH5       | Ant1    | 2441           | 6.65                      | ≤30                  | PASS    |
| DH5       | Ant1    | 2480           | 5.25                      | ≤30                  | PASS    |
| 2DH5      | Ant1    | 2402           | 4.82                      | ≤30                  | PASS    |
| 2DH5      | Ant1    | 2441           | 6.17                      | ≤30                  | PASS    |
| 2DH5      | Ant1    | 2480           | 4.91                      | ≤30                  | PASS    |
| 3DH5      | Ant1    | 2402           | 5.39                      | ≤30                  | PASS    |
| 3DH5      | Ant1    | 2441           | 6.59                      | ≤30                  | PASS    |
| 3DH5      | Ant1    | 2480           | 5.37                      | ≤30                  | PASS    |

### Test Graphs





DH5-Ant1-2441-PASS



DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS





2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS

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3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| DH5      | Ant1    | Hop            | 0.982       | ≥0.570     | PASS    |
| 2DH5     | Ant1    | Hop            | 0.986       | ≥0.872     | PASS    |
| 3DH5     | Ant1    | Hop            | 1.022       | ≥0.850     | PASS    |



## Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

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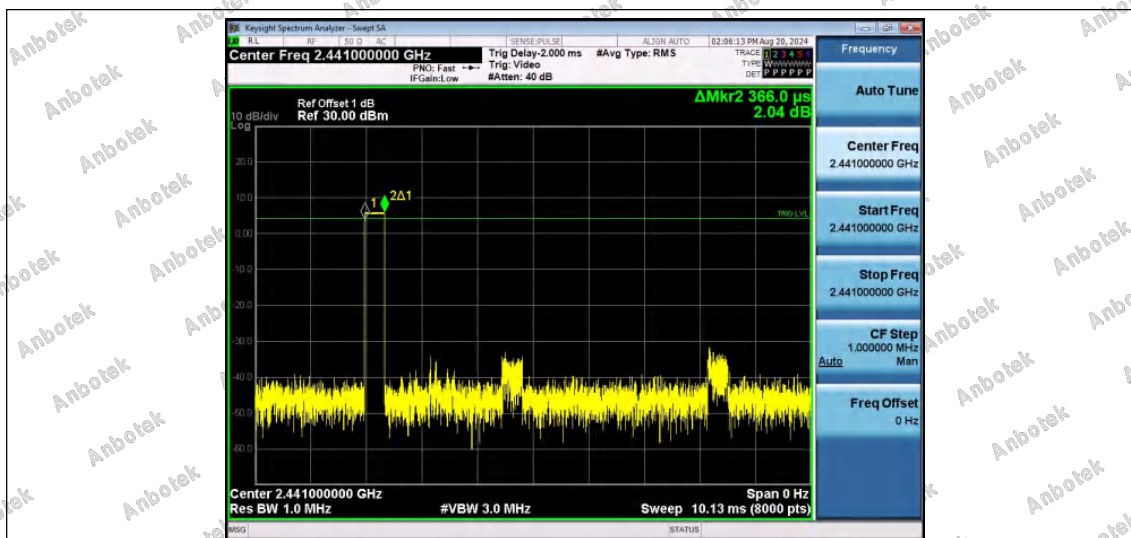
## Appendix E: Dwell Time

### Test Result

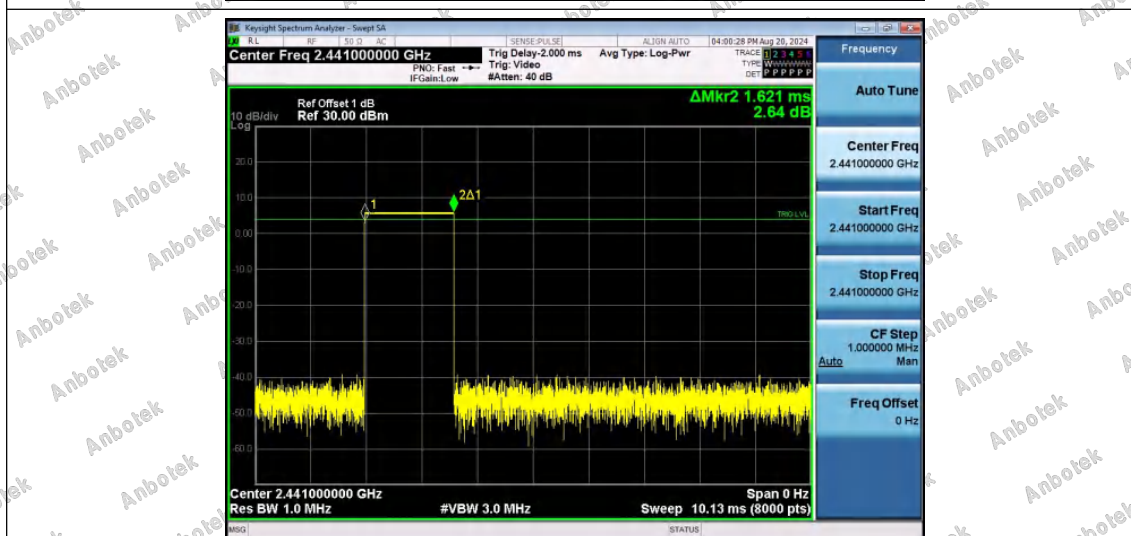
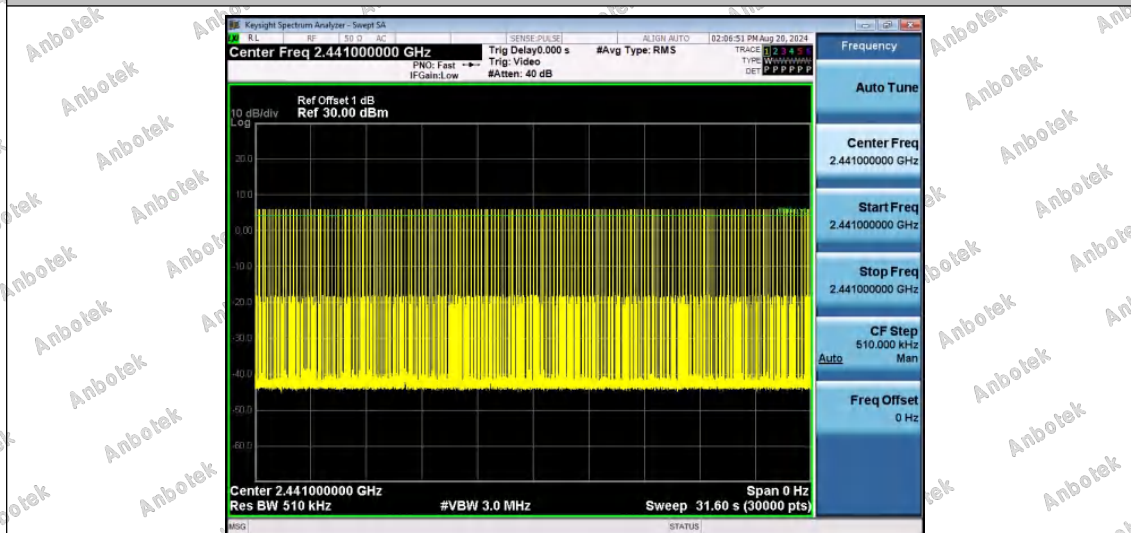
| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop            | 0.366              | 319                | 0.117     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop            | 1.621              | 150                | 0.243     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop            | 2.870              | 111                | 0.319     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop            | 0.376              | 320                | 0.12      | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop            | 1.629              | 163                | 0.266     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop            | 2.877              | 93                 | 0.268     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop            | 0.376              | 319                | 0.12      | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop            | 1.626              | 172                | 0.28      | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop            | 2.878              | 96                 | 0.276     | ≤0.4     | PASS    |



## Test Graphs



DH1-Ant1-Hop-PASS



DH3-Ant1-Hop-PASS

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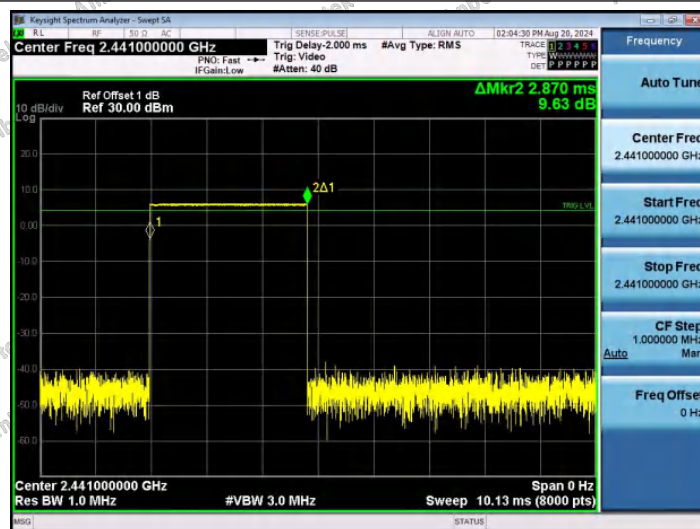
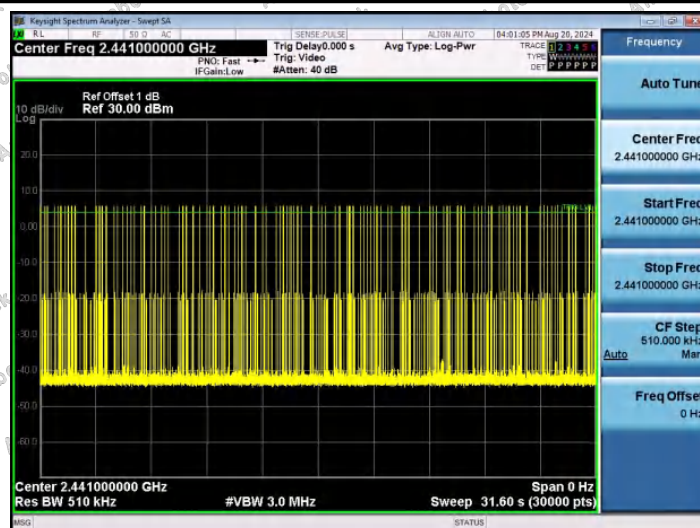
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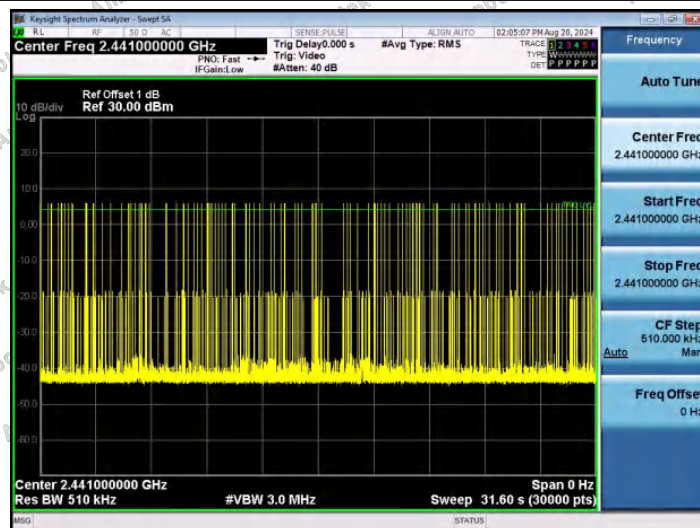


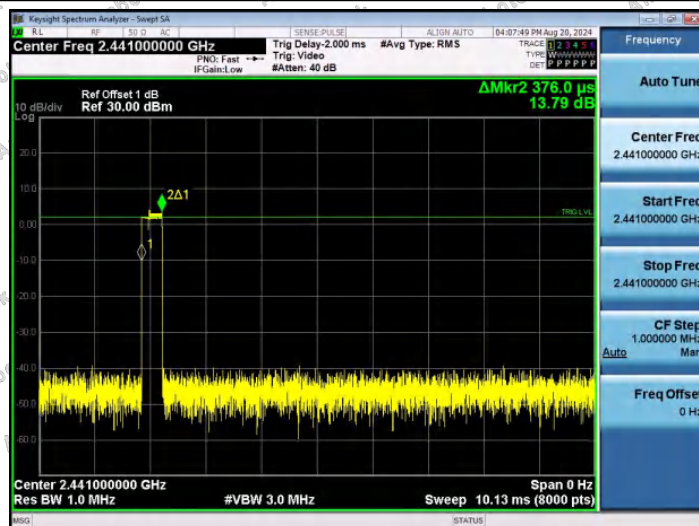
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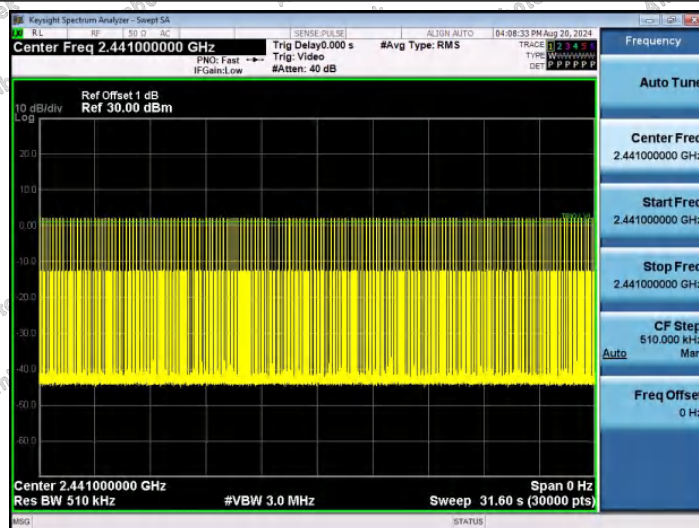


## DH5-Ant1-Hop-PASS



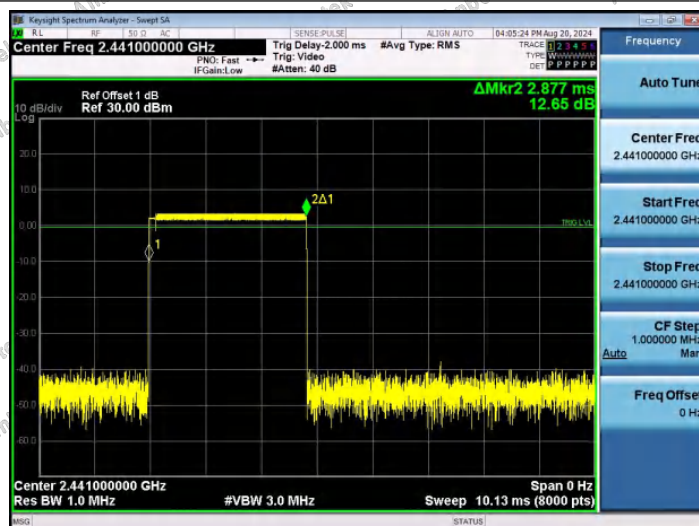
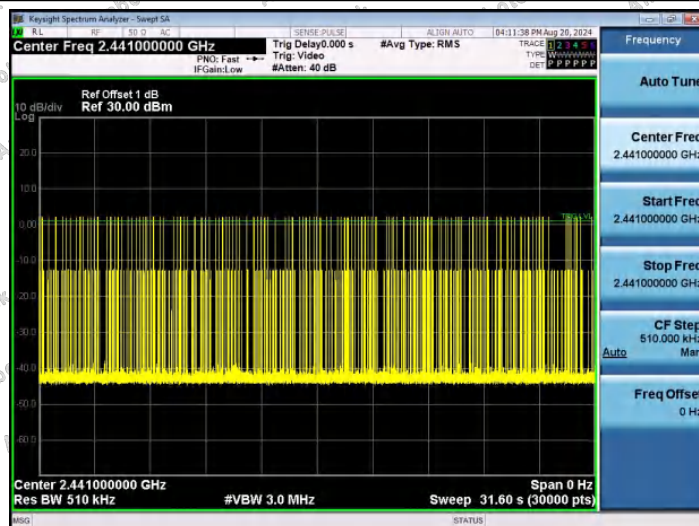


2DH1-Ant1-Hop-PASS

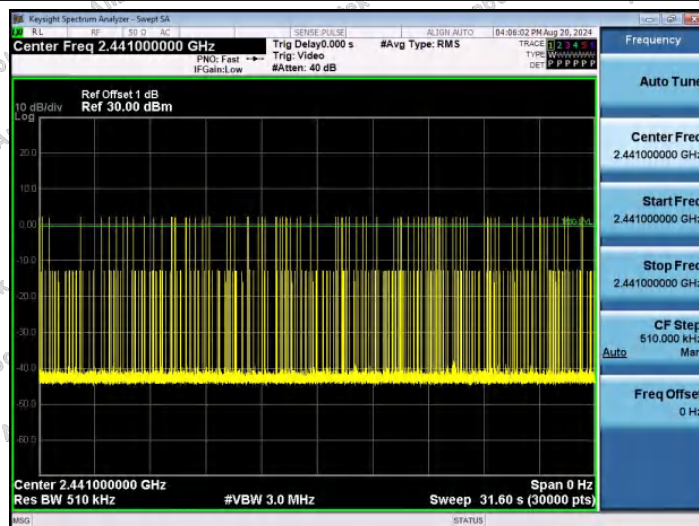


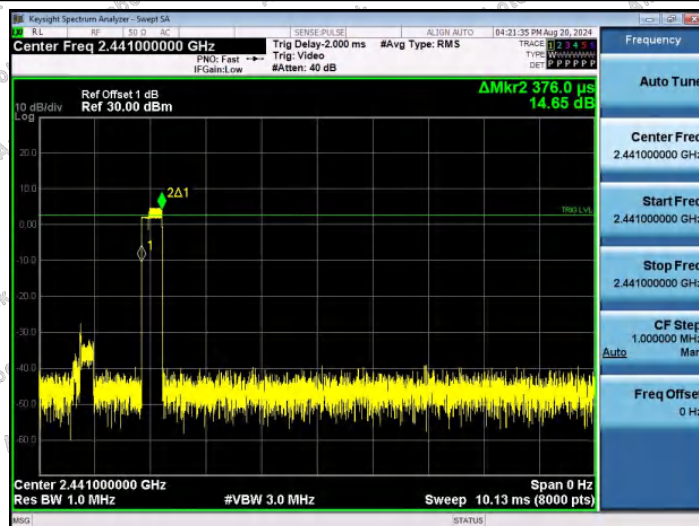
2DH3-Ant1-Hop-PASS



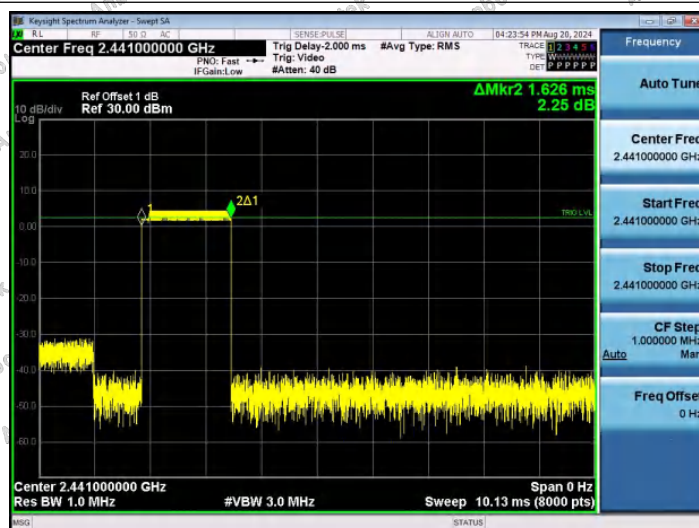
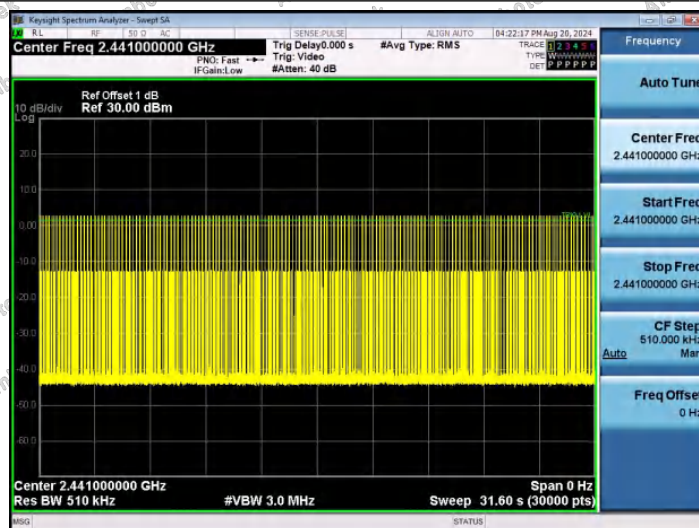


## 2DH5-Ant1-Hop-PASS



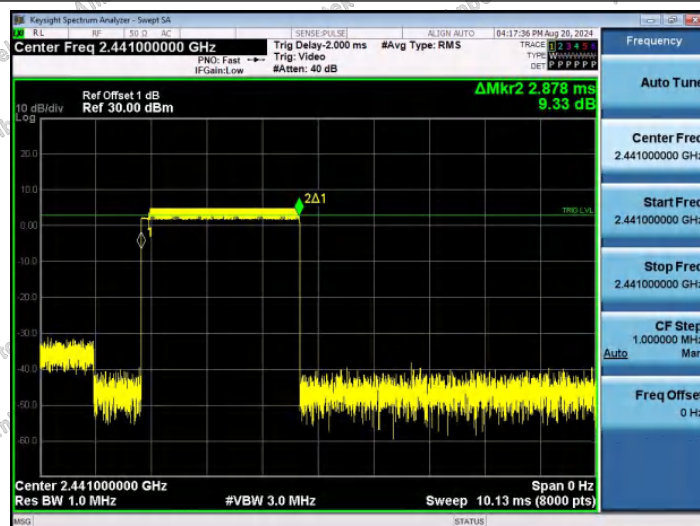
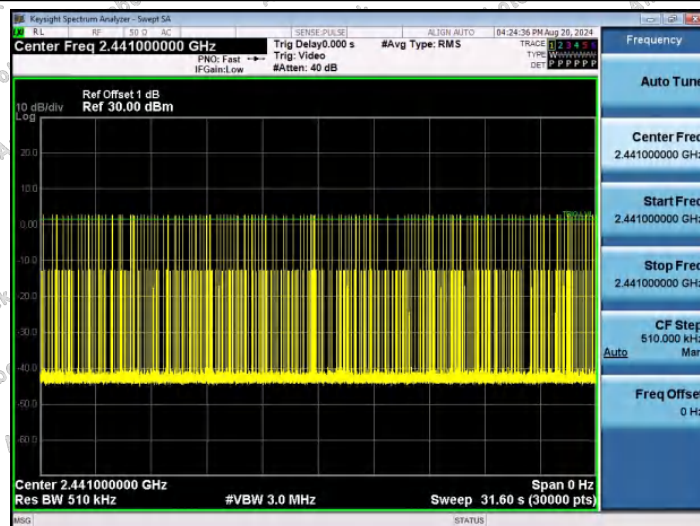


3DH1-Ant1-Hop-PASS

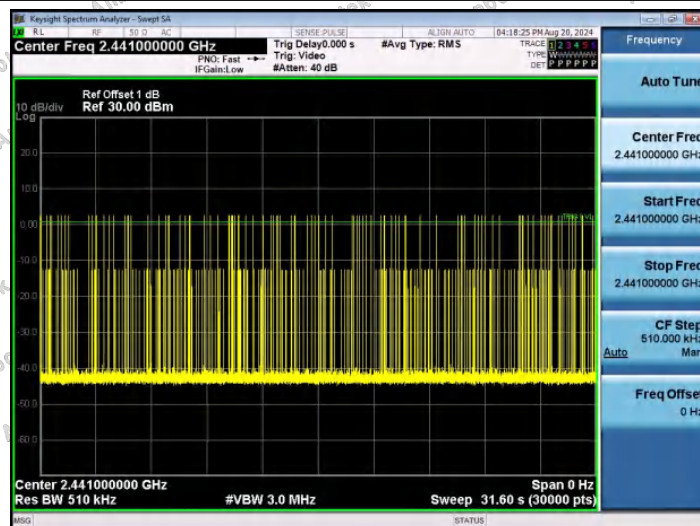


3DH3-Ant1-Hop-PASS





### 3DH5-Ant1-Hop-PASS



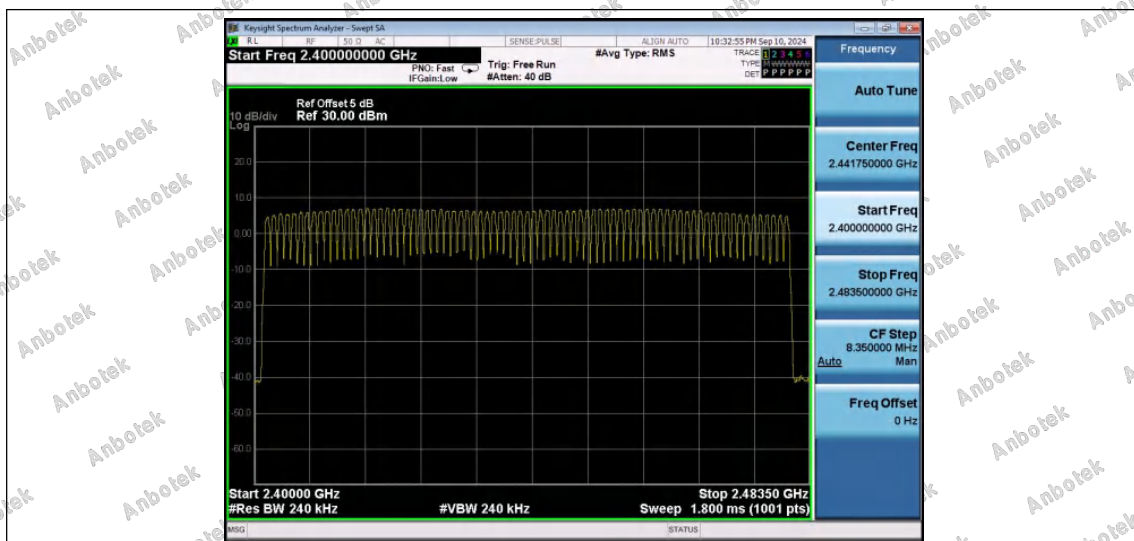
**Appendix F: Number of Hopping Channel**

**Test Result**

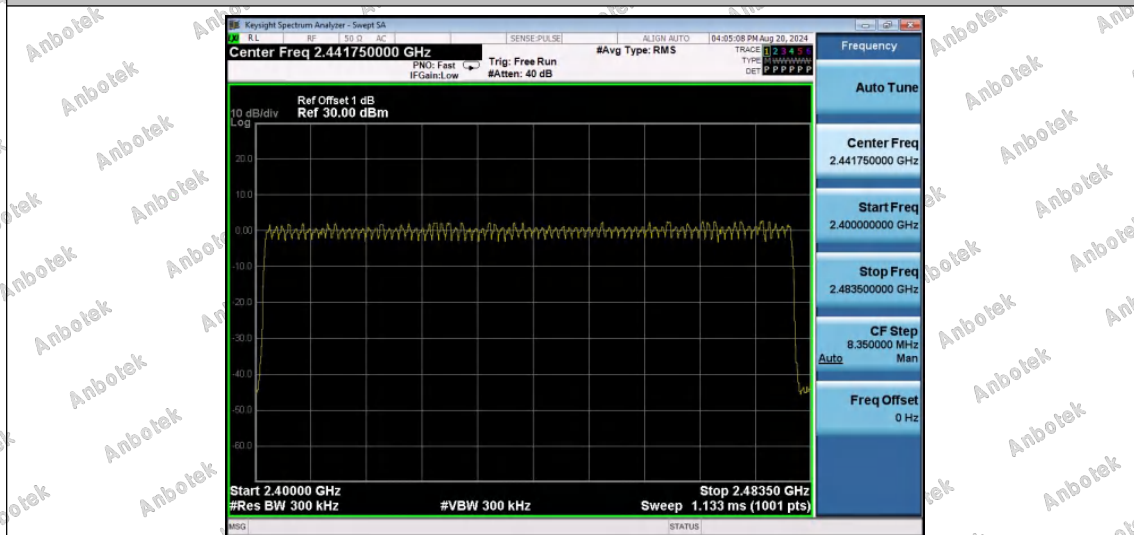
| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| DH5      | Ant1    | Hop            | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop            | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop            | 79          | ≥15        | PASS    |



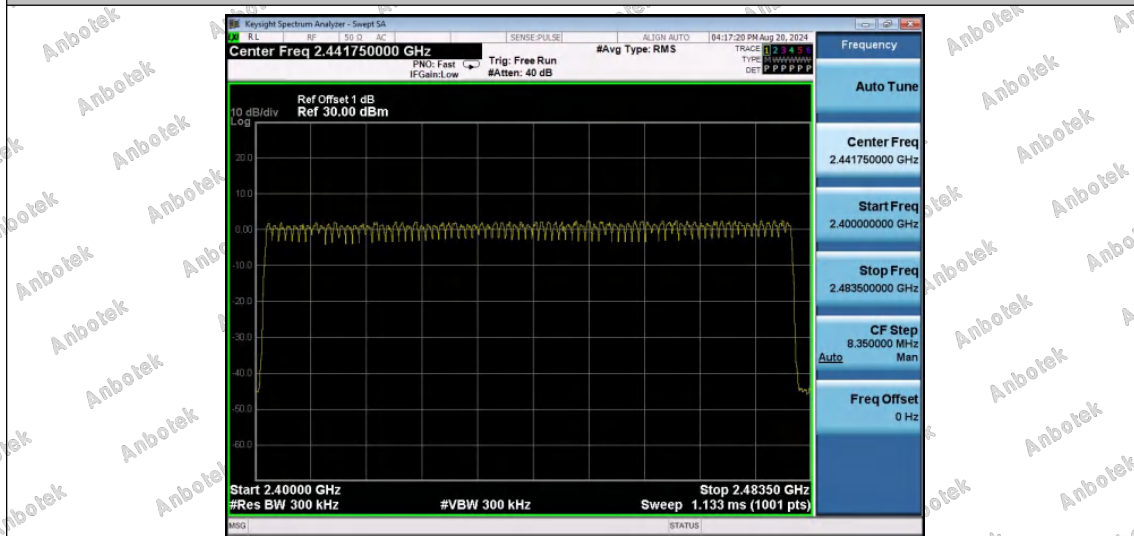
## Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

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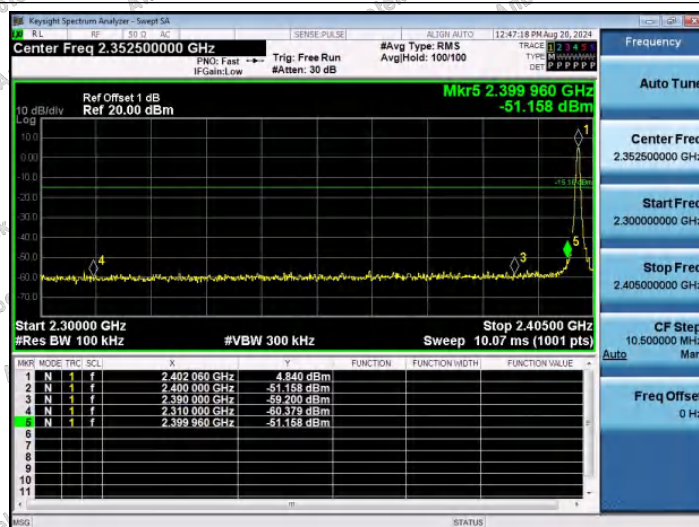
## Appendix G: Conducted Band edge

### Test Result

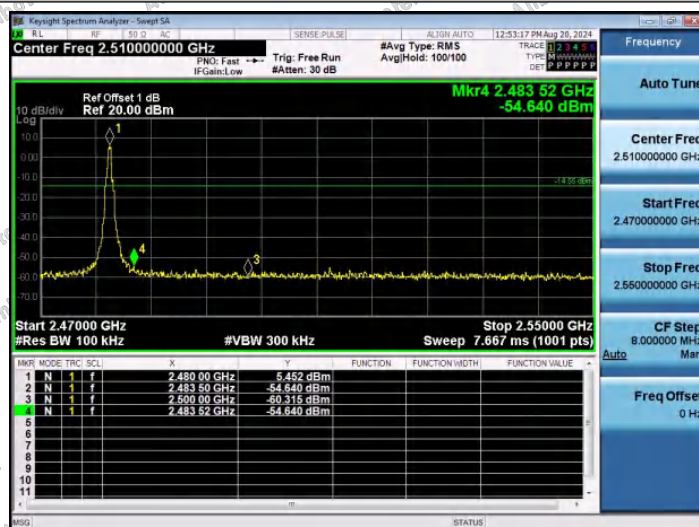
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low    | 2402           | 4.84           | -51.16       | ≤-15.16     | PASS    |
| DH5      | Ant1    | High   | 2480           | 5.45           | -54.64       | ≤-14.55     | PASS    |
| DH5      | Ant1    | Low    | Hop_2402       | 1.87           | -53.8        | ≤-18.13     | PASS    |
| DH5      | Ant1    | High   | Hop_2480       | 5.16           | -55.04       | ≤-14.84     | PASS    |
| 2DH5     | Ant1    | Low    | 2402           | 0.61           | -55.42       | ≤-19.4      | PASS    |
| 2DH5     | Ant1    | High   | 2480           | 0.47           | -55.97       | ≤-19.53     | PASS    |
| 2DH5     | Ant1    | Low    | Hop_2402       | 1.73           | -52.9        | ≤-18.27     | PASS    |
| 2DH5     | Ant1    | High   | Hop_2480       | 2.18           | -55.58       | ≤-17.82     | PASS    |
| 3DH5     | Ant1    | Low    | 2402           | 1.42           | -53.84       | ≤-18.58     | PASS    |
| 3DH5     | Ant1    | High   | 2480           | 1.69           | -56.33       | ≤-18.31     | PASS    |
| 3DH5     | Ant1    | Low    | Hop_2402       | -0.14          | -52.93       | ≤-20.14     | PASS    |
| 3DH5     | Ant1    | High   | Hop_2480       | 1.95           | -56.23       | ≤-18.05     | PASS    |



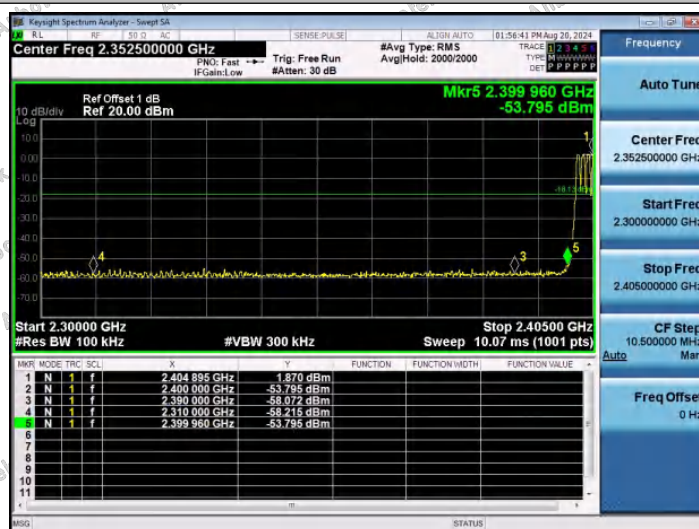
## Test Graphs



DH5-Ant1-2402-PASS



DH5-Ant1-2480-PASS



DH5-Ant1-Hop 2402-PASS

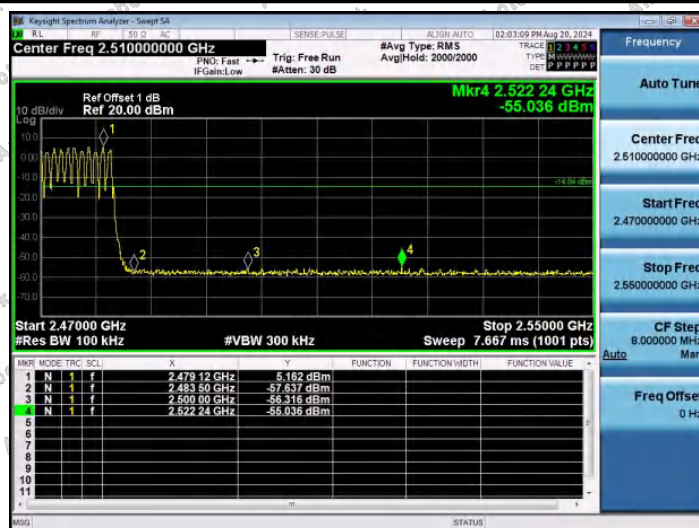
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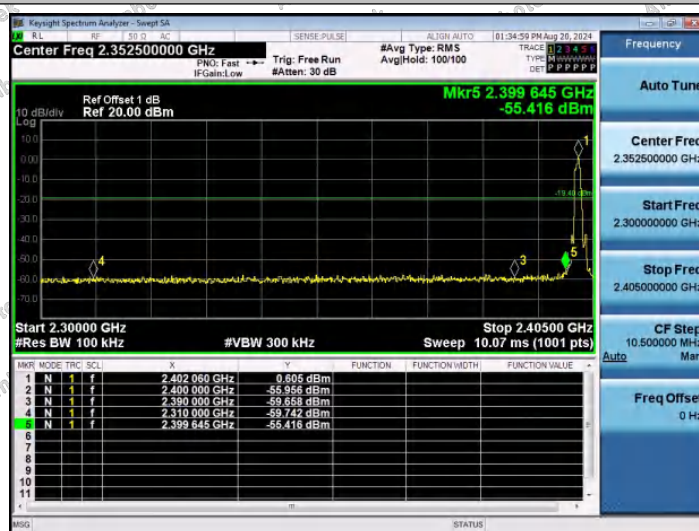
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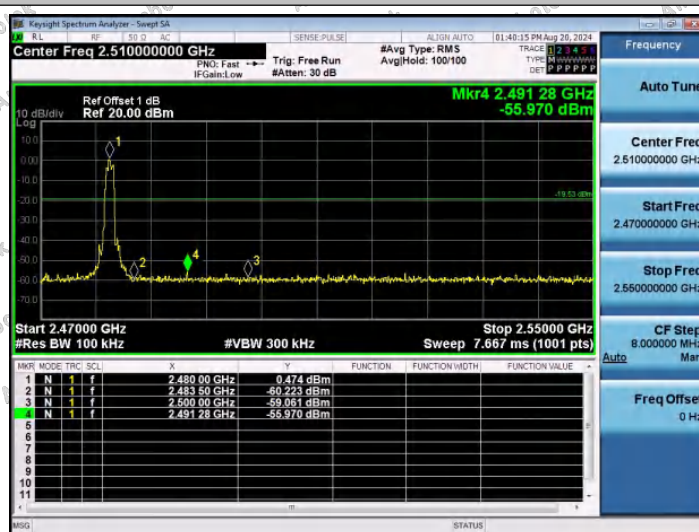




DH5-Ant1-Hop\_2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS

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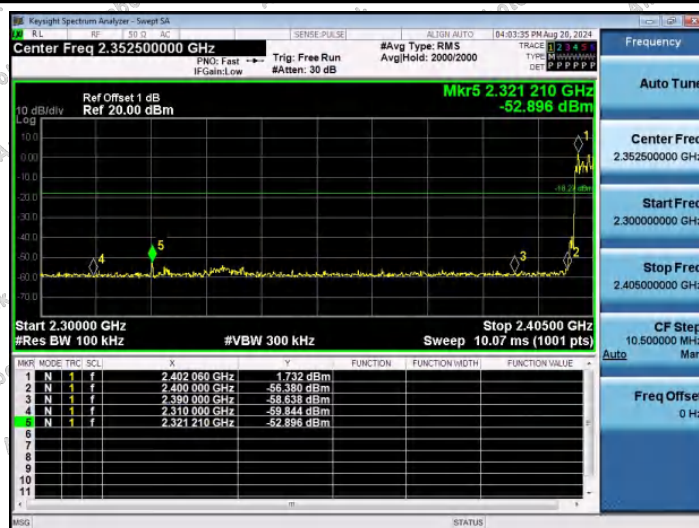
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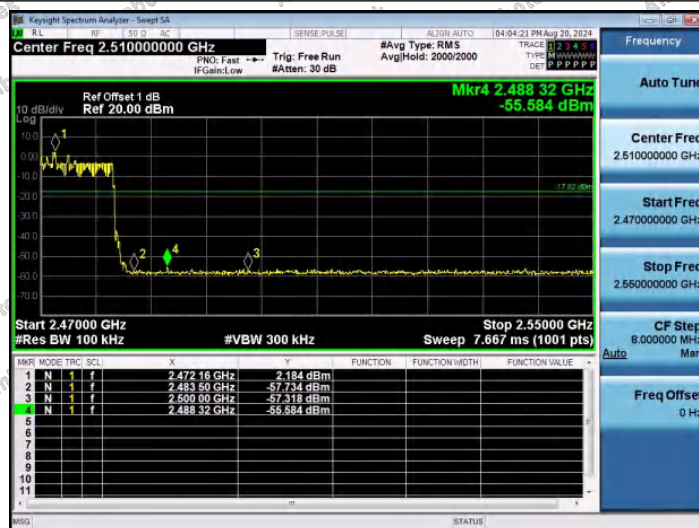
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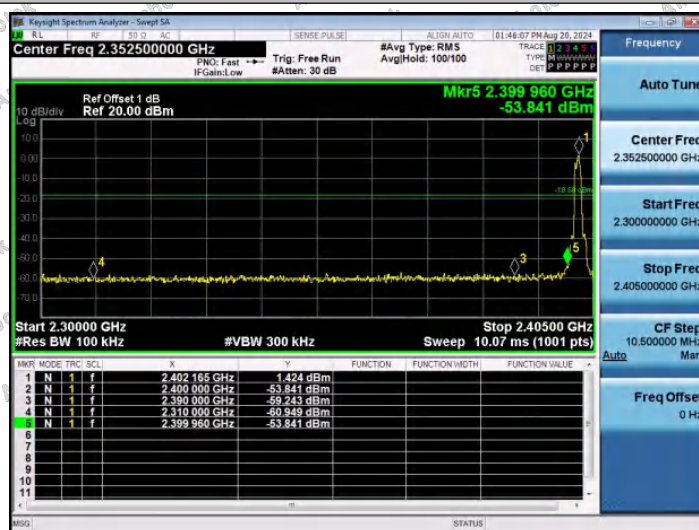




2DH5-Ant1-Hop\_2402-PASS

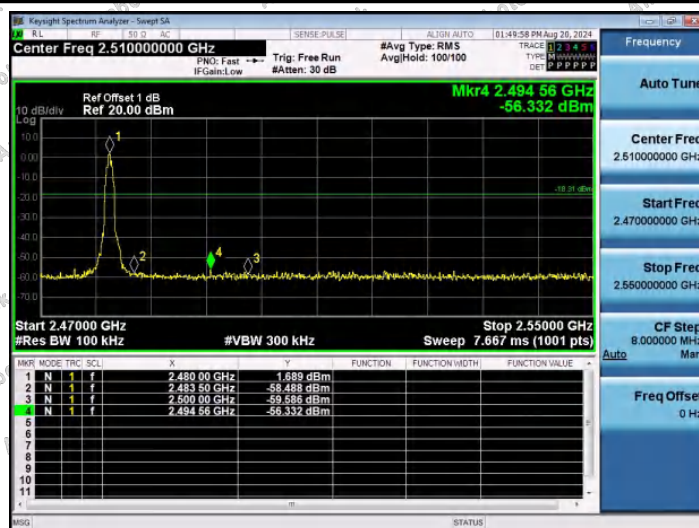


2DH5-Ant1-Hop\_2480-PASS

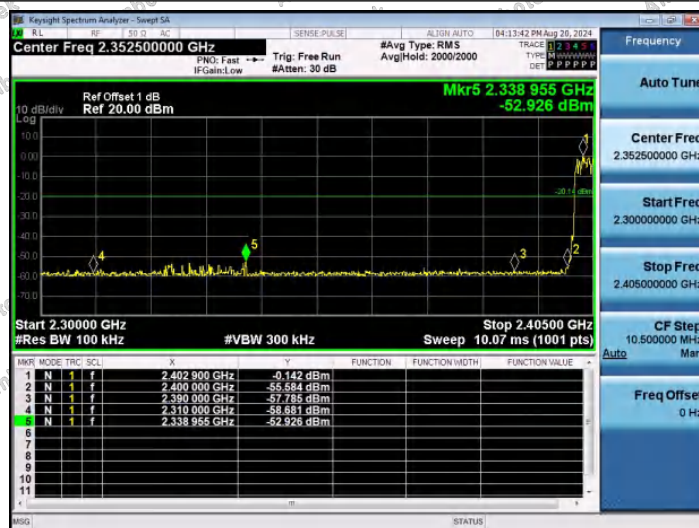


3DH5-Ant1-2402-PASS

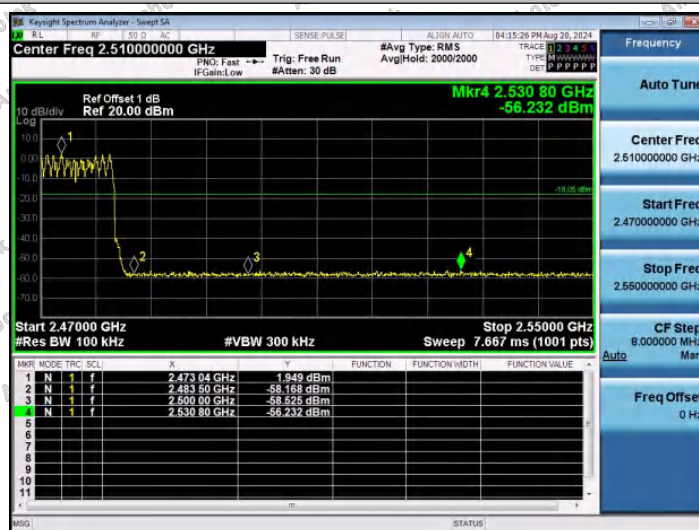




3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop\_2402-PASS



3DH5-Ant1-Hop\_2480-PASS

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## Appendix H: Conducted Spurious Emission

### Test Result

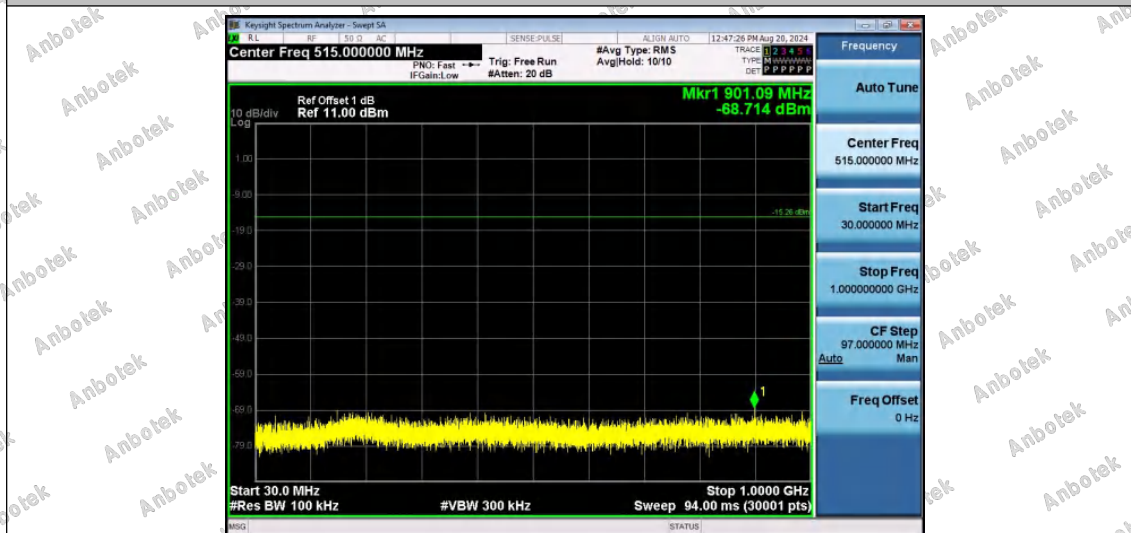
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402           | 0~Reference     | 4.74           | 4.74         | ---         | PASS    |
| DH5      | Ant1    | 2402           | 30~1000         | 4.74           | -68.71       | ≤-15.26     | PASS    |
| DH5      | Ant1    | 2402           | 1000~26500      | 4.74           | -40.72       | ≤-15.26     | PASS    |
| DH5      | Ant1    | 2441           | 0~Reference     | 5.49           | 5.49         | ---         | PASS    |
| DH5      | Ant1    | 2441           | 30~1000         | 5.49           | -68.06       | ≤-14.51     | PASS    |
| DH5      | Ant1    | 2441           | 1000~26500      | 5.49           | -46.32       | ≤-14.51     | PASS    |
| DH5      | Ant1    | 2480           | 0~Reference     | 5.13           | 5.13         | ---         | PASS    |
| DH5      | Ant1    | 2480           | 30~1000         | 5.13           | -68.31       | ≤-14.87     | PASS    |
| DH5      | Ant1    | 2480           | 1000~26500      | 5.13           | -47.64       | ≤-14.87     | PASS    |
| 2DH5     | Ant1    | 2402           | 0~Reference     | 1.67           | 1.67         | ---         | PASS    |
| 2DH5     | Ant1    | 2402           | 30~1000         | 1.67           | -69.13       | ≤-18.33     | PASS    |
| 2DH5     | Ant1    | 2402           | 1000~26500      | 1.67           | -45.42       | ≤-18.33     | PASS    |
| 2DH5     | Ant1    | 2441           | 0~Reference     | 1.93           | 1.93         | ---         | PASS    |
| 2DH5     | Ant1    | 2441           | 30~1000         | 1.93           | -68.75       | ≤-18.07     | PASS    |
| 2DH5     | Ant1    | 2441           | 1000~26500      | 1.93           | -48.2        | ≤-18.07     | PASS    |
| 2DH5     | Ant1    | 2480           | 0~Reference     | 2.54           | 2.54         | ---         | PASS    |
| 2DH5     | Ant1    | 2480           | 30~1000         | 2.54           | -68.87       | ≤-17.46     | PASS    |
| 2DH5     | Ant1    | 2480           | 1000~26500      | 2.54           | -51.48       | ≤-17.46     | PASS    |
| 3DH5     | Ant1    | 2402           | 0~Reference     | 1.62           | 1.62         | ---         | PASS    |
| 3DH5     | Ant1    | 2402           | 30~1000         | 1.62           | -68.67       | ≤-18.38     | PASS    |
| 3DH5     | Ant1    | 2402           | 1000~26500      | 1.62           | -47.47       | ≤-18.38     | PASS    |
| 3DH5     | Ant1    | 2441           | 0~Reference     | 1.00           | 1.00         | ---         | PASS    |
| 3DH5     | Ant1    | 2441           | 30~1000         | 1.00           | -68.88       | ≤-19        | PASS    |
| 3DH5     | Ant1    | 2441           | 1000~26500      | 1.00           | -50.44       | ≤-19        | PASS    |
| 3DH5     | Ant1    | 2480           | 0~Reference     | 1.82           | 1.82         | ---         | PASS    |
| 3DH5     | Ant1    | 2480           | 30~1000         | 1.82           | -68.63       | ≤-18.18     | PASS    |
| 3DH5     | Ant1    | 2480           | 1000~26500      | 1.82           | -53.18       | ≤-18.18     | PASS    |



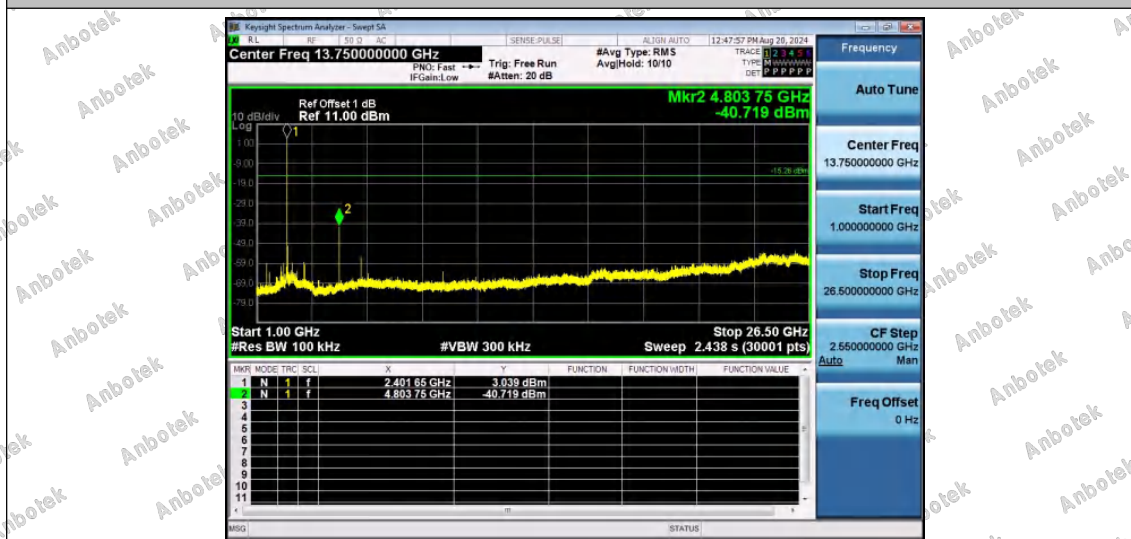
## Test Graphs



DH5-Ant1-2402-0~Reference-PASS



DH5-Ant1-2402-30~1000-PASS



DH5-Ant1-2402-1000~26500-PASS

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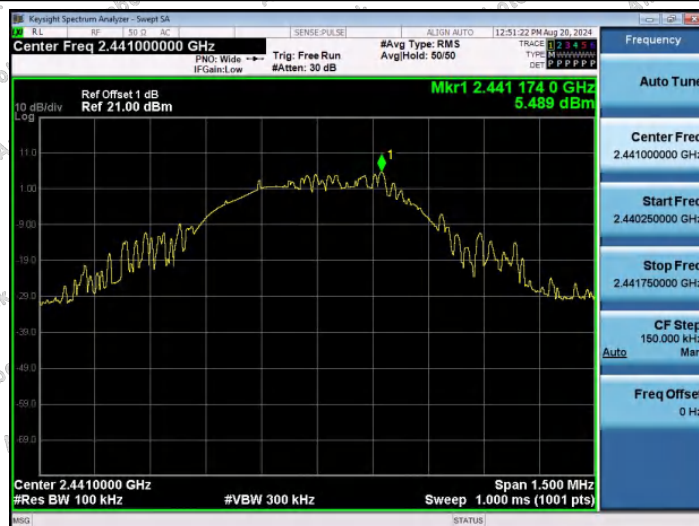
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hahgcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 0755-26066440 Email: service@anbotek.com

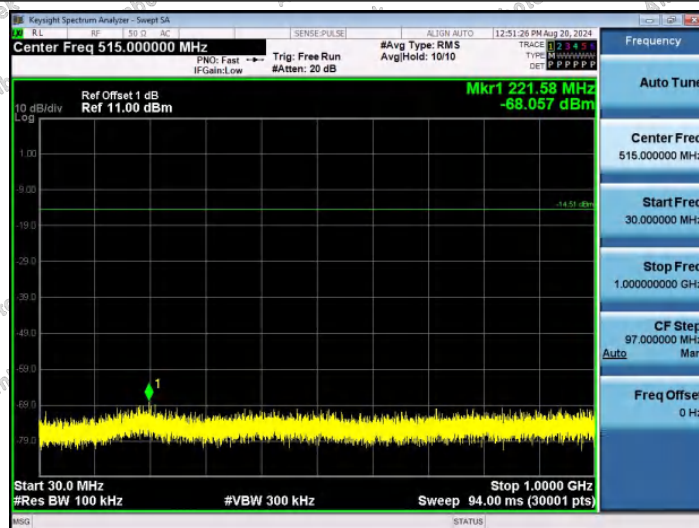


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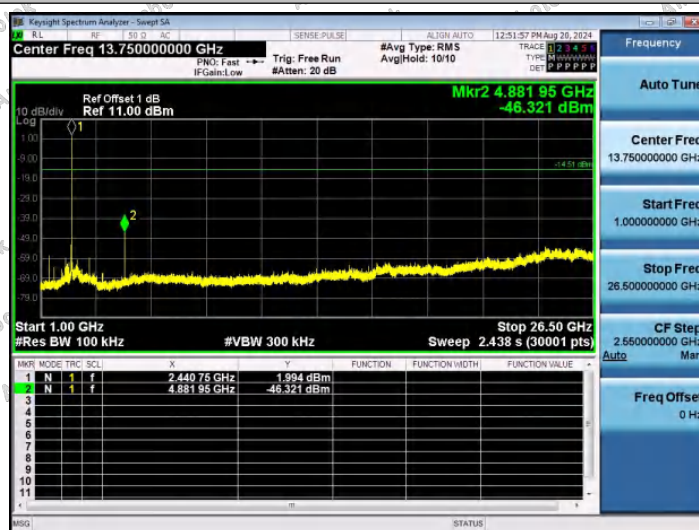




DH5-Ant1-2441-0~Reference-PASS



DH5-Ant1-2441-30~1000-PASS

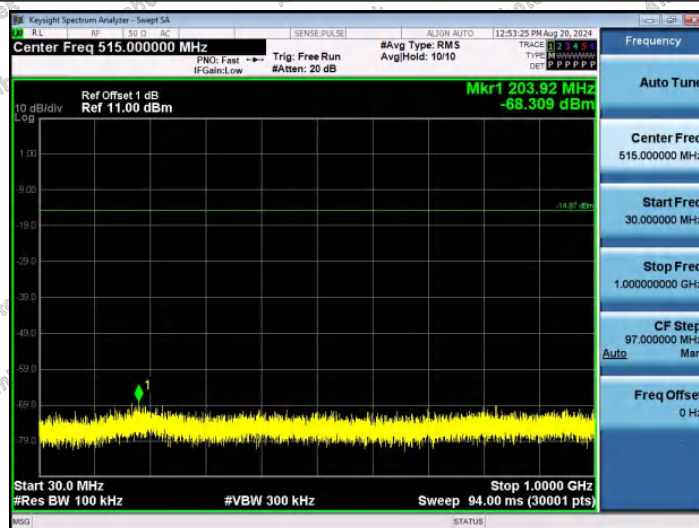


DH5-Ant1-2441-1000~26500-PASS

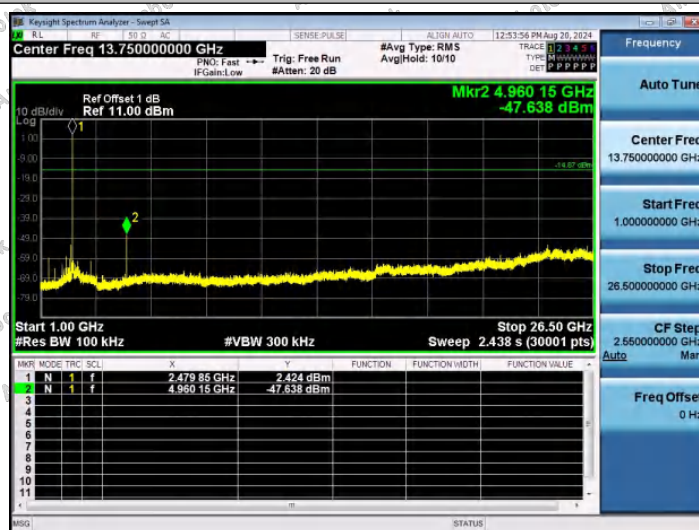




DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS

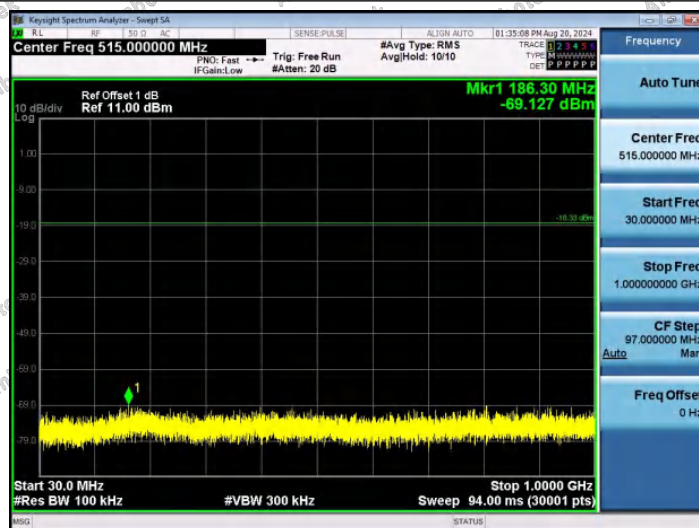


DH5-Ant1-2480-1000~26500-PASS

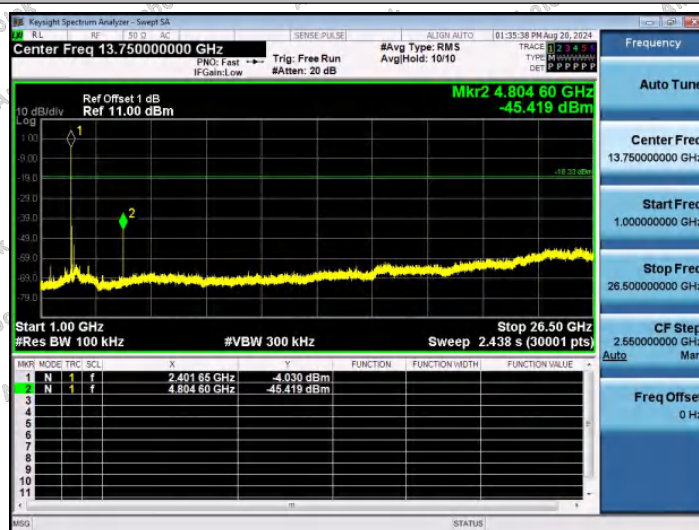




2DH5-Ant1-2402-0~Reference-PASS



2DH5-Ant1-2402-30~1000-PASS

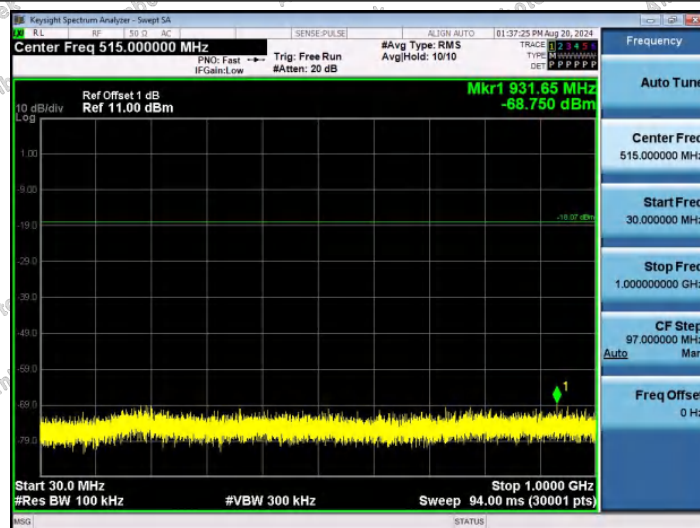


2DH5-Ant1-2402-1000~26500-PASS

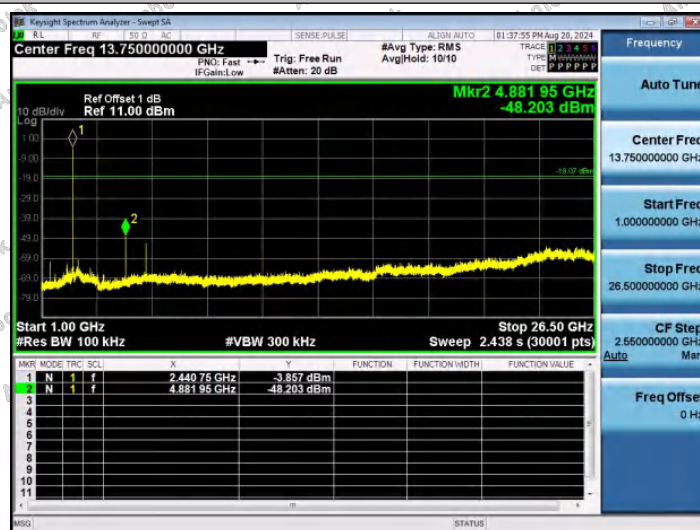




2DH5-Ant1-2441-0~Reference-PASS



2DH5-Ant1-2441-30~1000-PASS

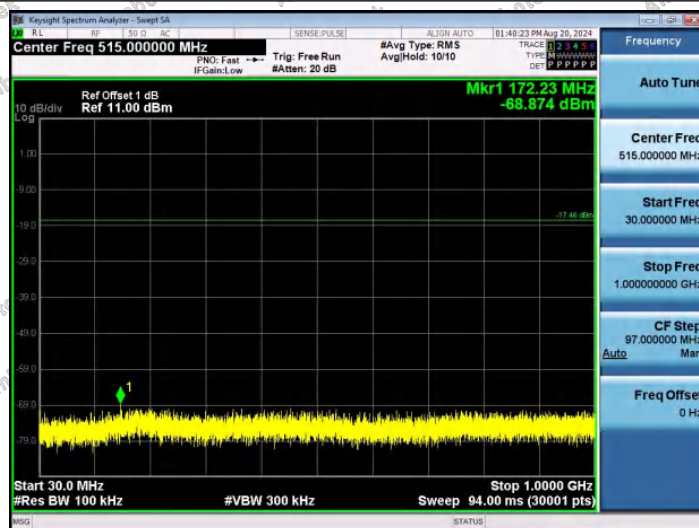


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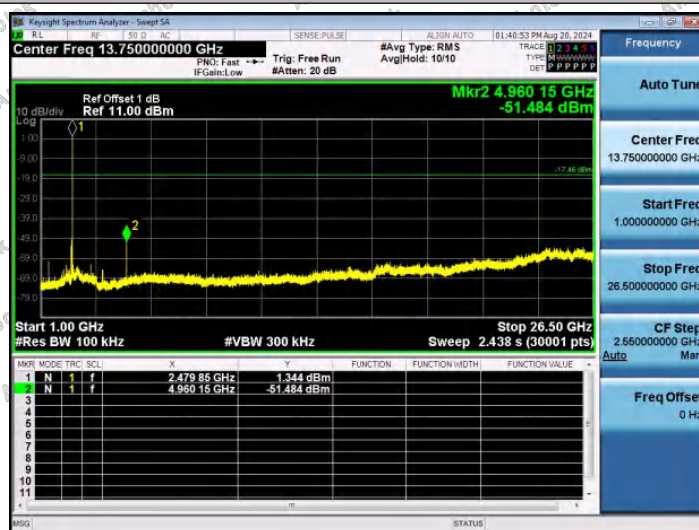




2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS

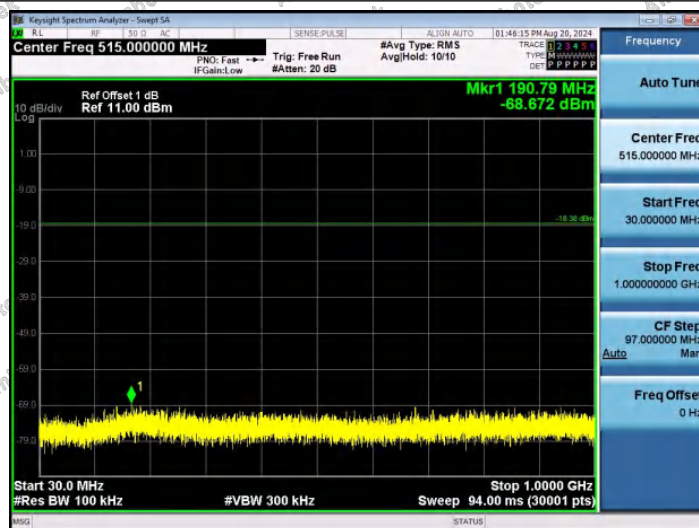


2DH5-Ant1-2480-1000~26500-PASS

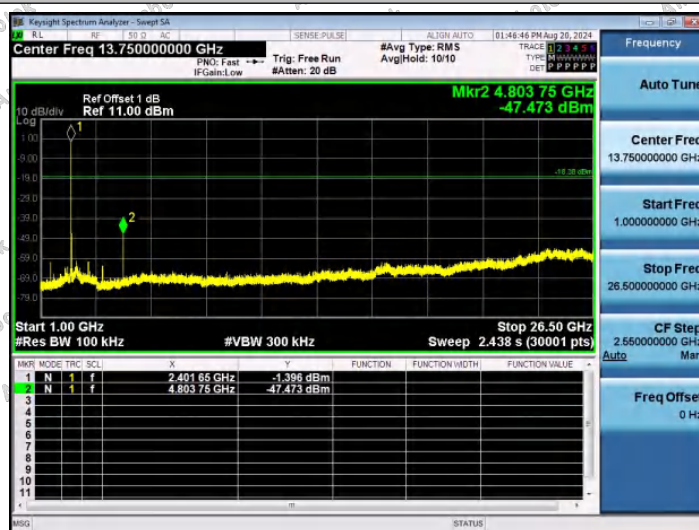




3DH5-Ant1-2402-0~Reference-PASS



3DH5-Ant1-2402-30~1000-PASS

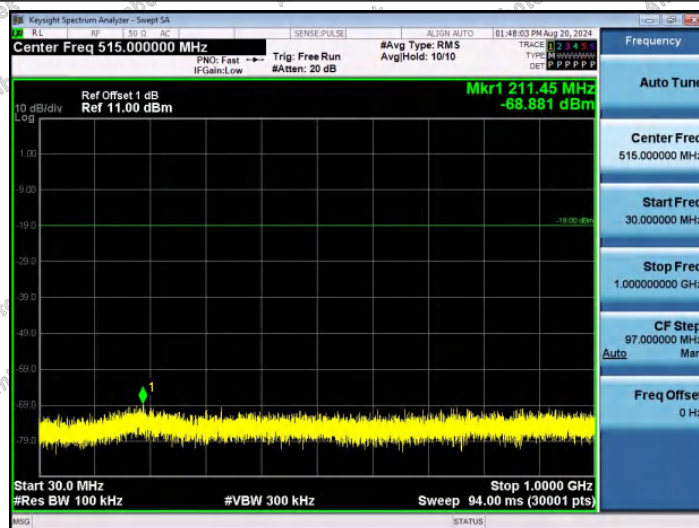


3DH5-Ant1-2402-1000~26500-PASS

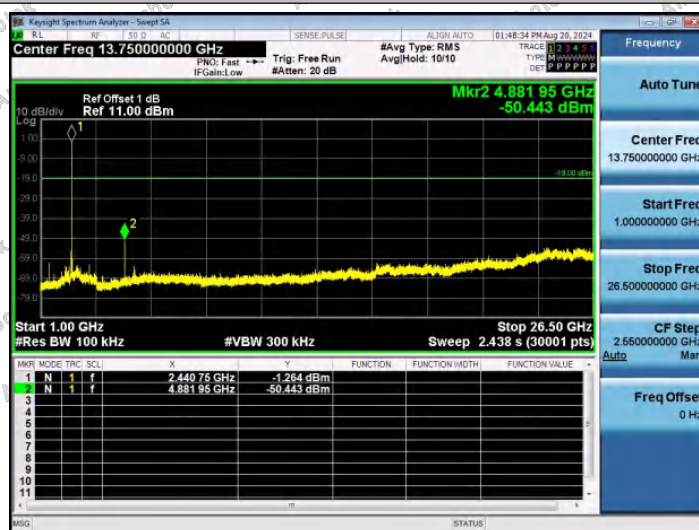




3DH5-Ant1-2441-0~Reference-PASS



3DH5-Ant1-2441-30~1000-PASS

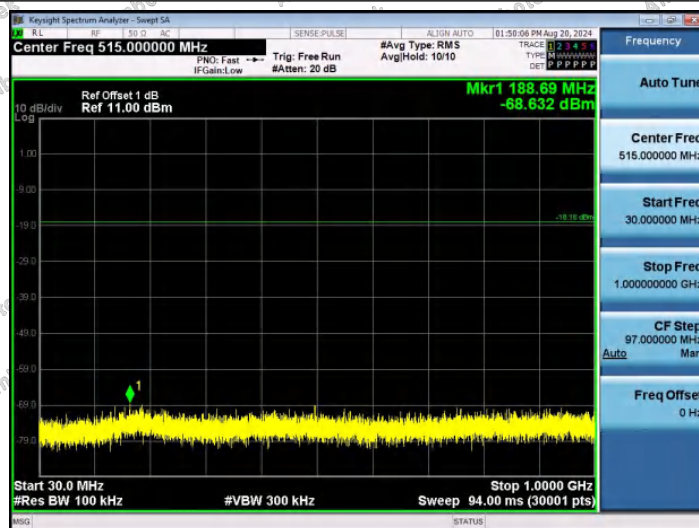


3DH5-Ant1-2441-1000~26500-PASS

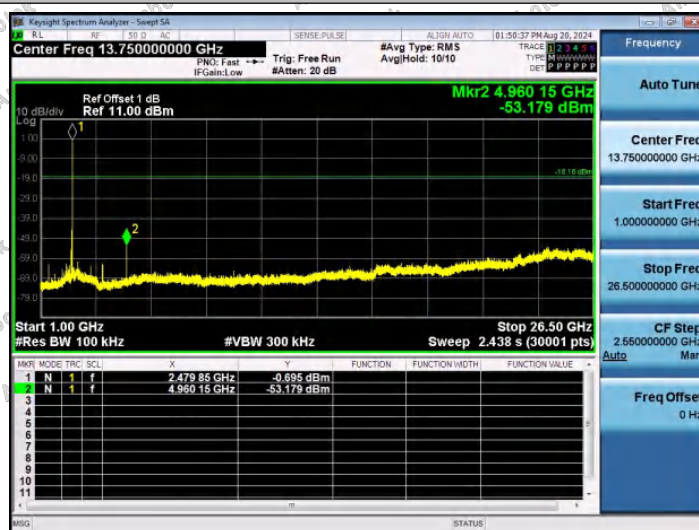




3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



3DH5-Ant1-2480-1000~26500-PASS



## Appendix I: Duty Cycle

### Test Result

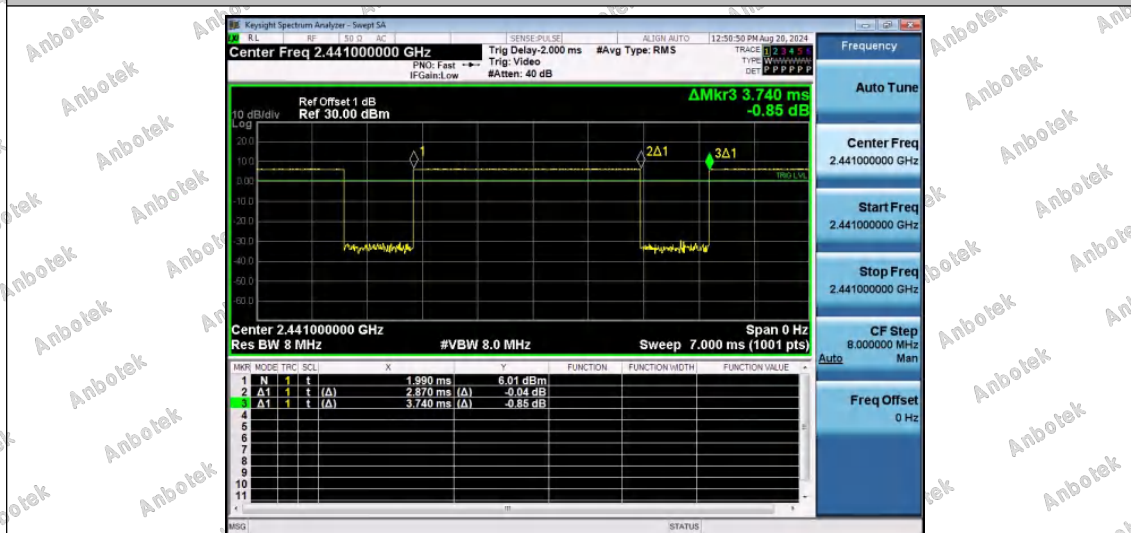
| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| DH5      | Ant1    | 2402           | 2.87            | 3.75           | 76.53             | 1.16                     |
| DH5      | Ant1    | 2441           | 2.87            | 3.74           | 76.74             | 1.15                     |
| DH5      | Ant1    | 2480           | 2.87            | 3.75           | 76.53             | 1.16                     |
| 2DH5     | Ant1    | 2402           | 2.88            | 3.75           | 76.80             | 1.15                     |
| 2DH5     | Ant1    | 2441           | 2.88            | 3.75           | 76.80             | 1.15                     |
| 2DH5     | Ant1    | 2480           | 2.89            | 3.76           | 76.86             | 1.14                     |
| 3DH5     | Ant1    | 2402           | 2.89            | 3.76           | 76.86             | 1.14                     |
| 3DH5     | Ant1    | 2441           | 2.88            | 3.74           | 77.01             | 1.13                     |
| 3DH5     | Ant1    | 2480           | 2.89            | 3.75           | 77.07             | 1.13                     |



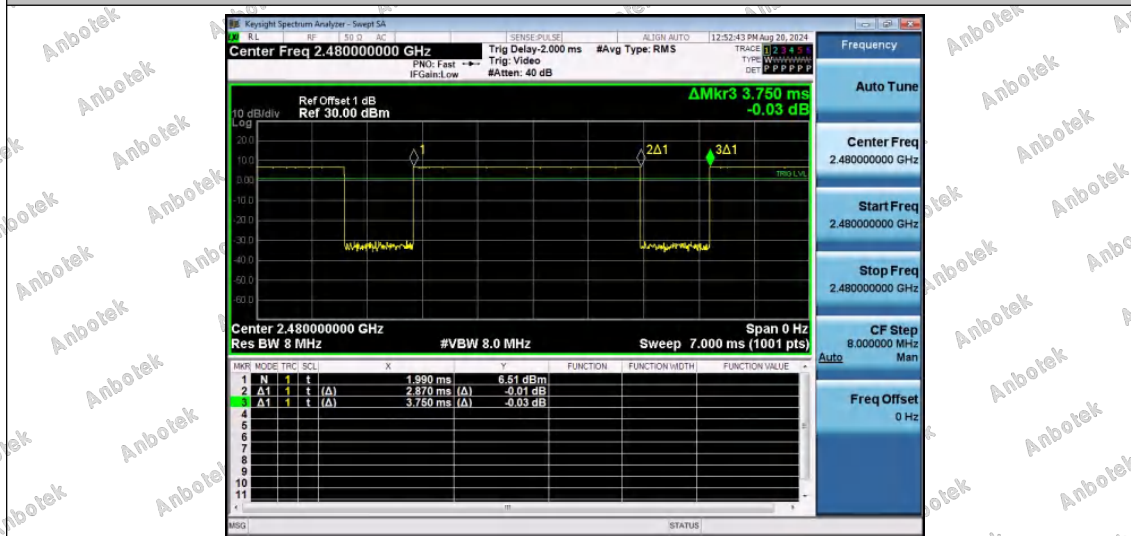
## Test Graphs



NTNV-DH5-Ant1-2402



NTNV-DH5-Ant1-2441



NTNV-DH5-Ant1-2480

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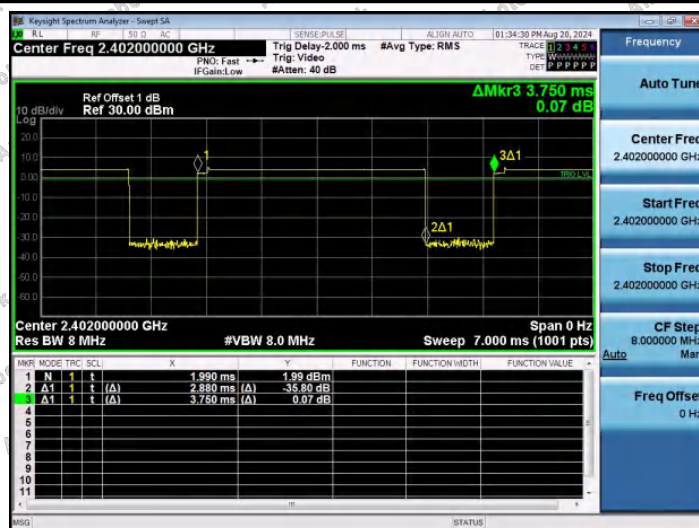
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hahqcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 0755-26066440 Email: service@anbotech.com



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NTVN-2DH5-Ant1-2402



NTVN-2DH5-Ant1-2441

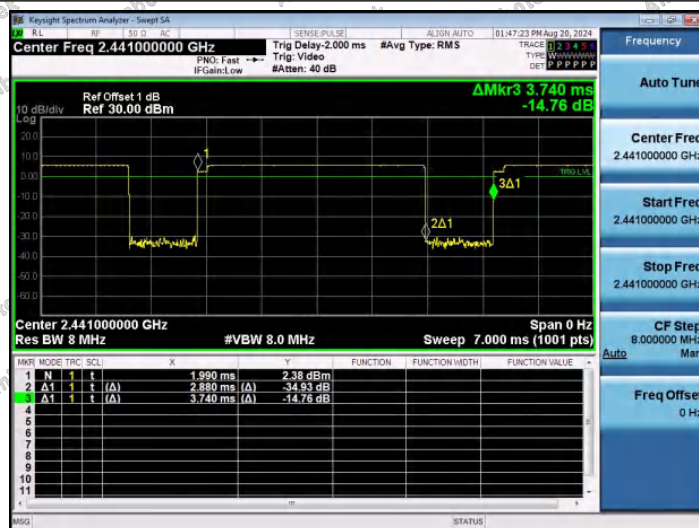


NTVN-2DH5-Ant1-2480

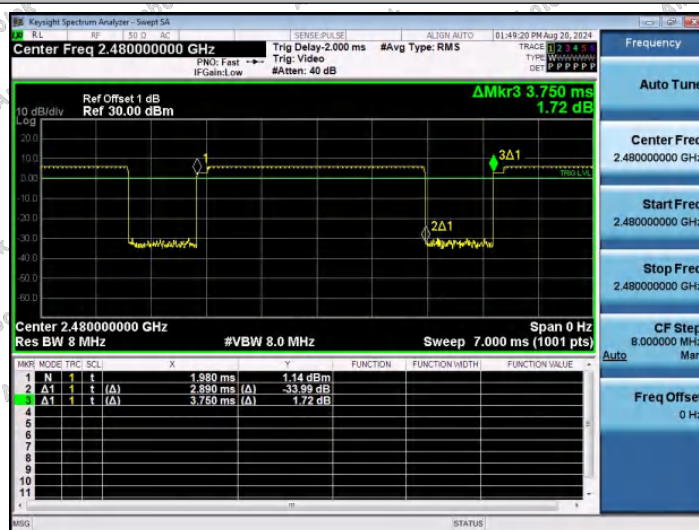




NTVN-3DH5-Ant1-2402



NTVN-3DH5-Ant1-2441



NTVN-3DH5-Ant1-2480

---End---

