

Appendix Test Data

|                  |                 |                    |             |
|------------------|-----------------|--------------------|-------------|
| Report No.:      | 18220WC40094301 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.05.13      | Finish Test Date:  | 2024.05.15  |
| Test Engineer:   | Joker Huang     | Auditor:           | Justin Feng |
| Temperature:     | 24.3℃           | Relative Humidity: | 47%         |
| Pressure:        | 101kPa          |                    |             |

Appendix A: 6dB Bandwidth

Test Result

| TestMode  | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 8.520        | 2407.400 | 2415.920 | 0.5        | PASS    |
| 11B       | Ant1    | 2437           | 8.560        | 2432.320 | 2440.880 | 0.5        | PASS    |
| 11B       | Ant1    | 2462           | 8.600        | 2457.360 | 2465.960 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 16.360       | 2403.680 | 2420.040 | 0.5        | PASS    |
| 11G       | Ant1    | 2437           | 16.320       | 2428.720 | 2445.040 | 0.5        | PASS    |
| 11G       | Ant1    | 2462           | 16.360       | 2453.680 | 2470.040 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.560       | 2403.080 | 2420.640 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2437           | 17.520       | 2428.120 | 2445.640 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2462           | 17.560       | 2453.080 | 2470.640 | 0.5        | PASS    |



## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

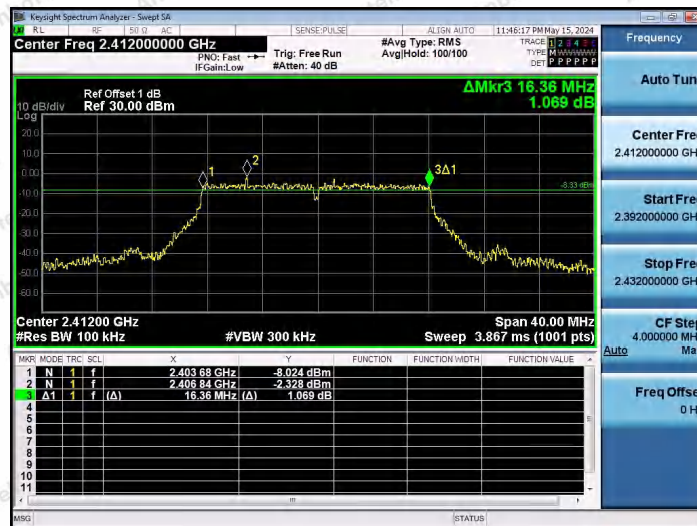
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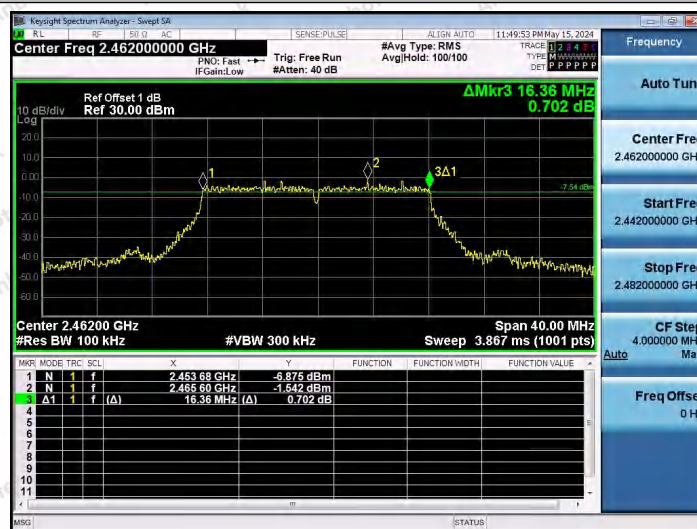




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



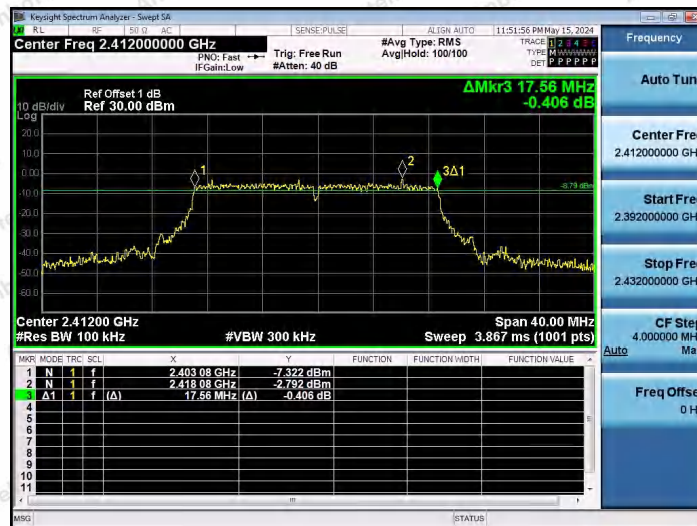
11G-Ant1-2462-PASS

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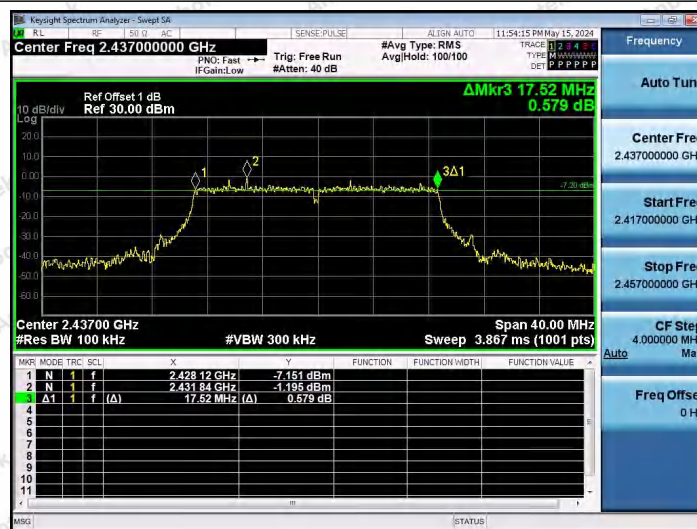
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11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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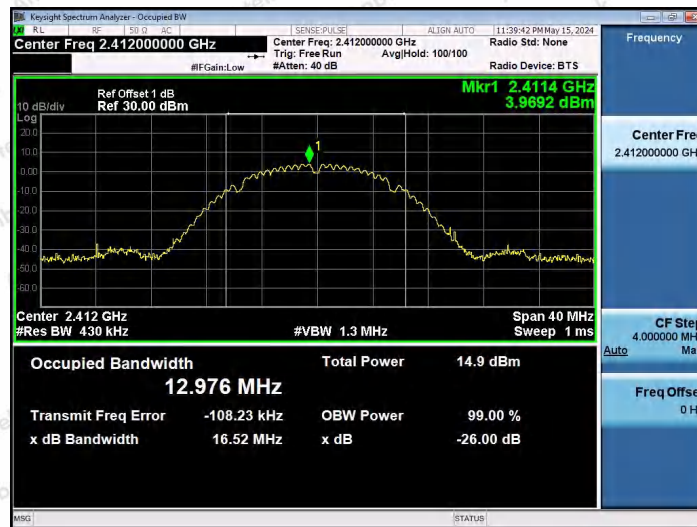
## Appendix B: 99% Occupied Bandwidth

### Test Result

| TestMode  | Antenna | Channel<br>Frequency[MHz] | OCB<br>[MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------------------------|--------------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412                      | 12.976       | 2405.4038 | 2418.3798 | ---        | ---     |
| 11B       | Ant1    | 2437                      | 12.968       | 2430.4011 | 2443.3691 | ---        | ---     |
| 11B       | Ant1    | 2462                      | 12.951       | 2455.4092 | 2468.3602 | ---        | ---     |
| 11G       | Ant1    | 2412                      | 16.993       | 2403.4178 | 2420.4108 | ---        | ---     |
| 11G       | Ant1    | 2437                      | 17.007       | 2428.4035 | 2445.4105 | ---        | ---     |
| 11G       | Ant1    | 2462                      | 17.128       | 2453.3595 | 2470.4875 | ---        | ---     |
| 11N20SISO | Ant1    | 2412                      | 17.991       | 2402.8949 | 2420.8859 | ---        | ---     |
| 11N20SISO | Ant1    | 2437                      | 18.047       | 2427.8641 | 2445.9111 | ---        | ---     |
| 11N20SISO | Ant1    | 2462                      | 18.022       | 2452.8654 | 2470.8874 | ---        | ---     |



## Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

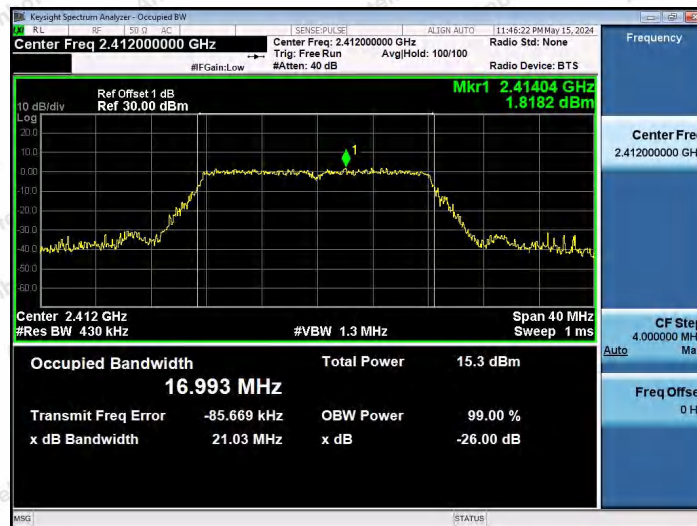
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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

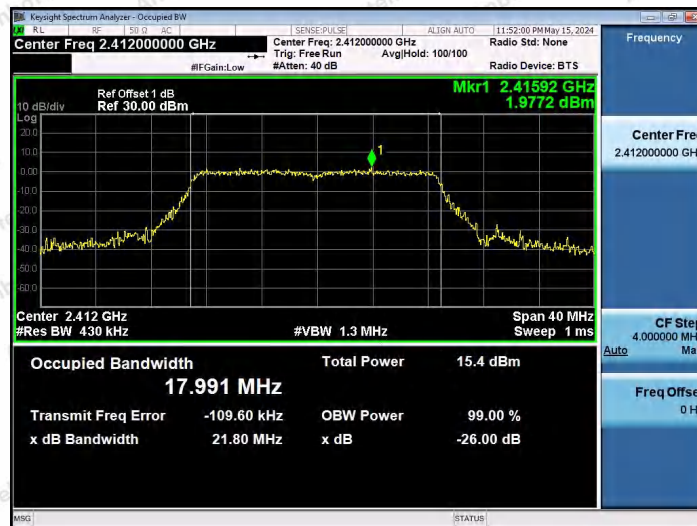
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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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## Appendix C: Maximum conducted output power

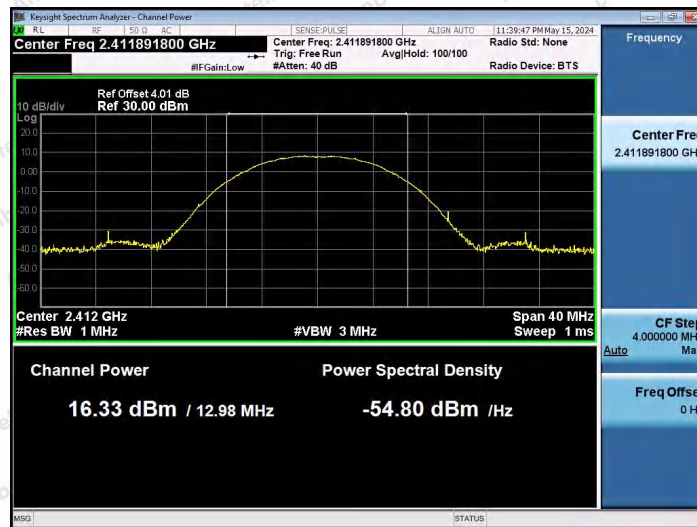
### Test Result Average

| Test Mode | Antenna | Frequency [MHz] | Average power [dBm] | Duty Cycle [%] | DC Factor [dB] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|---------------------|----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412            | 13.32               | 50.00          | 3.01           | 16.33        | ≤30.00      | PASS    |
| 11B       | Ant1    | 2437            | 14.09               | 50.15          | 3.00           | 17.09        | ≤30.00      | PASS    |
| 11B       | Ant1    | 2462            | 14.17               | 49.41          | 3.06           | 17.23        | ≤30.00      | PASS    |
| 11G       | Ant1    | 2412            | 13.56               | 45.80          | 3.39           | 16.95        | ≤30.00      | PASS    |
| 11G       | Ant1    | 2437            | 14.68               | 49.75          | 3.03           | <b>17.71</b> | ≤30.00      | PASS    |
| 11G       | Ant1    | 2462            | 14.31               | 49.63          | 3.04           | 17.35        | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 2412            | 13.56               | 50.40          | 2.98           | 16.54        | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 2437            | 13.69               | 50.53          | 2.96           | 16.65        | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 2462            | 14.17               | 50.40          | 2.98           | 17.15        | ≤30.00      | PASS    |

Note: The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.



## Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

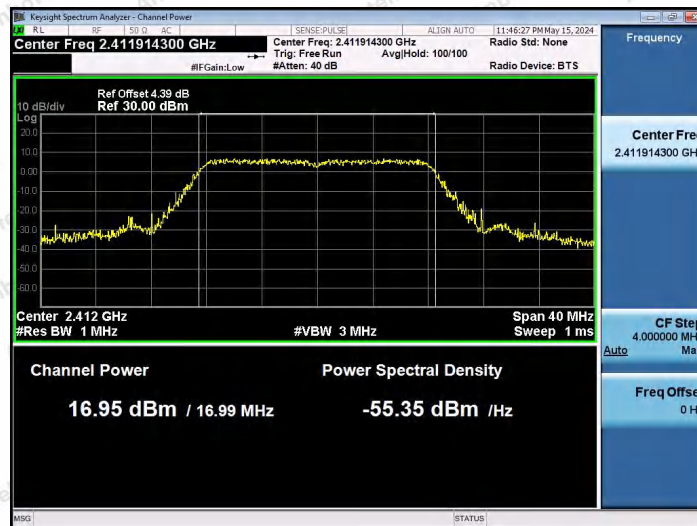
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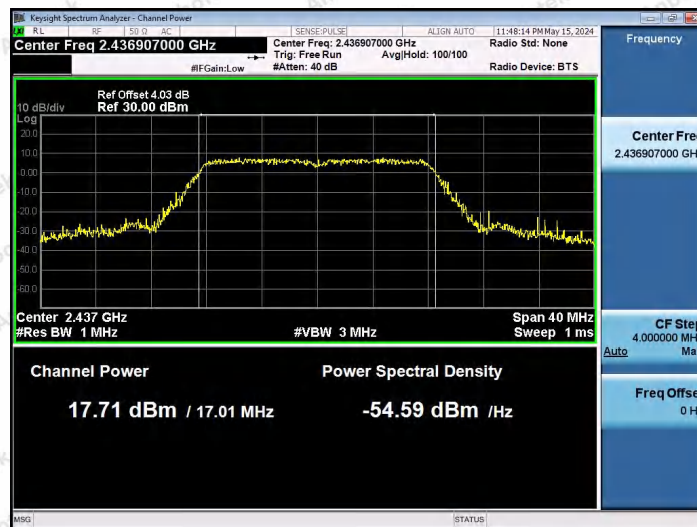


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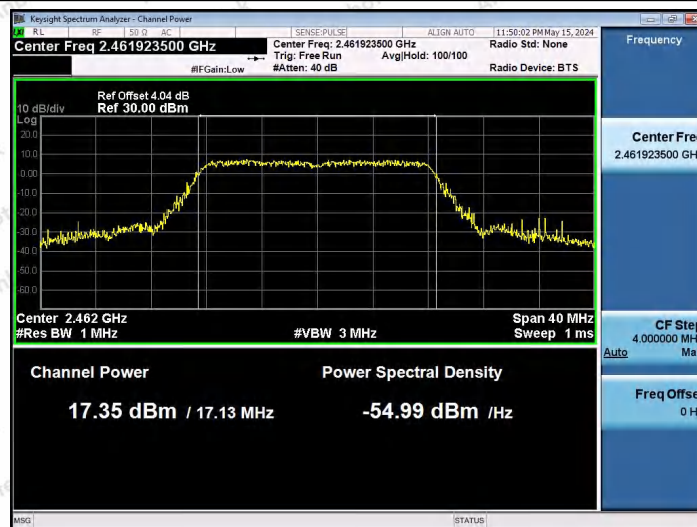




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

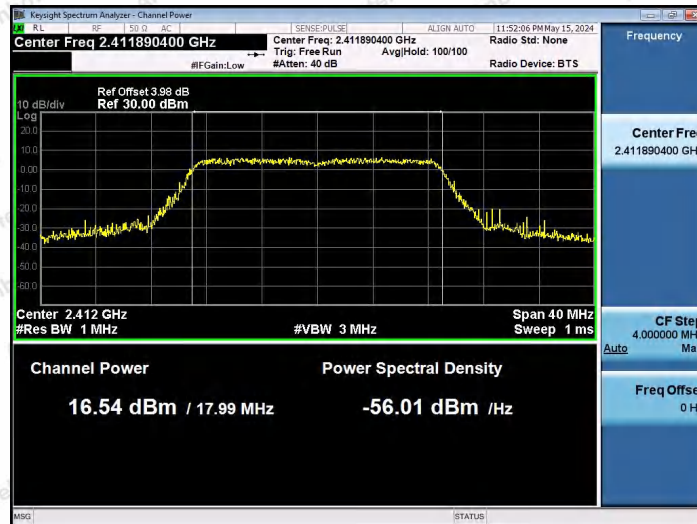
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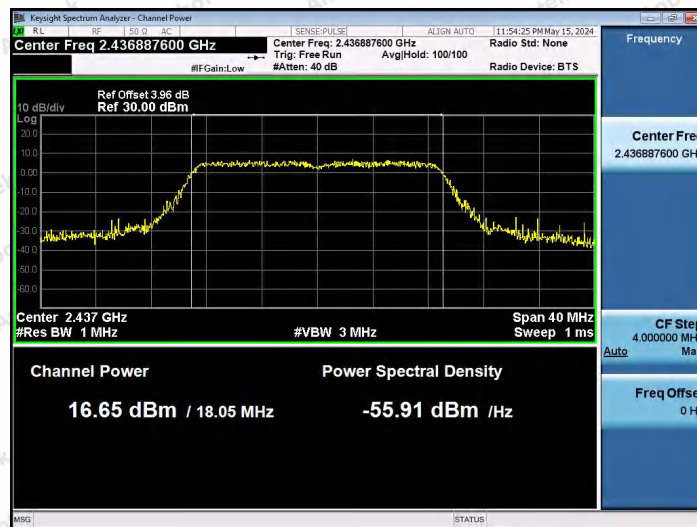


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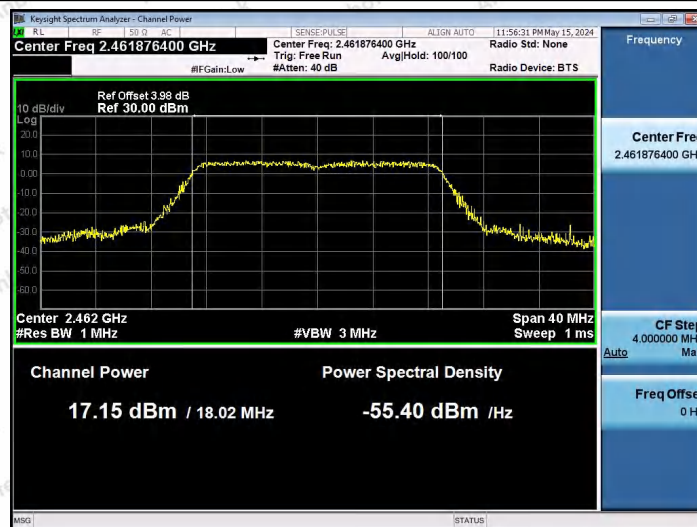




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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## Appendix D: Maximum power spectral density

### Test Result

| TestMode  | Antenna | Frequency[MHz] | Result<br>[dBm/30kHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|---------|----------------|-----------------------|----------------------|---------------------|---------|
| 11B       | Ant1    | 2412           | -9.19                 | -19.19               | ≤8.00               | PASS    |
| 11B       | Ant1    | 2437           | -8.44                 | -18.44               | ≤8.00               | PASS    |
| 11B       | Ant1    | 2462           | -7.75                 | -17.75               | ≤8.00               | PASS    |
| 11G       | Ant1    | 2412           | -13.43                | -23.43               | ≤8.00               | PASS    |
| 11G       | Ant1    | 2437           | -13.16                | -23.16               | ≤8.00               | PASS    |
| 11G       | Ant1    | 2462           | -13.45                | -23.45               | ≤8.00               | PASS    |
| 11N20SISO | Ant1    | 2412           | -13.96                | -23.96               | ≤8.00               | PASS    |
| 11N20SISO | Ant1    | 2437           | -13.87                | -23.87               | ≤8.00               | PASS    |
| 11N20SISO | Ant1    | 2462           | -13.55                | -23.55               | ≤8.00               | PASS    |

#### Note:

1. The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.
2.  $\text{PSD}(\text{dBm}/3\text{kHz}) = \text{PSD}(\text{dBm}/30\text{kHz}) - (10 \cdot \log(30/3))$



## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

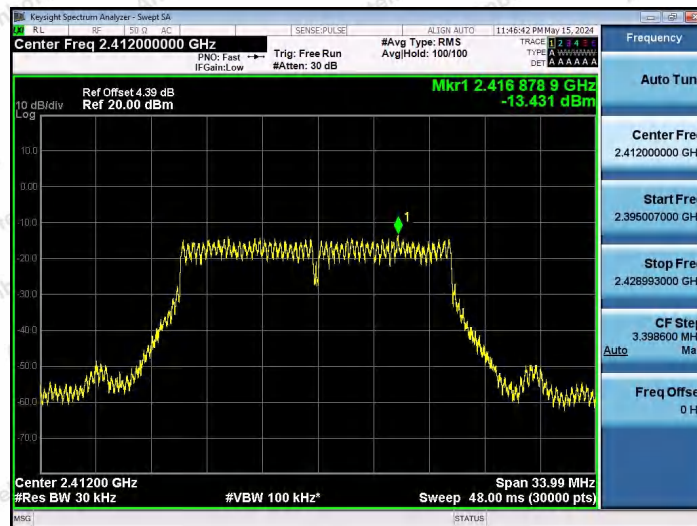
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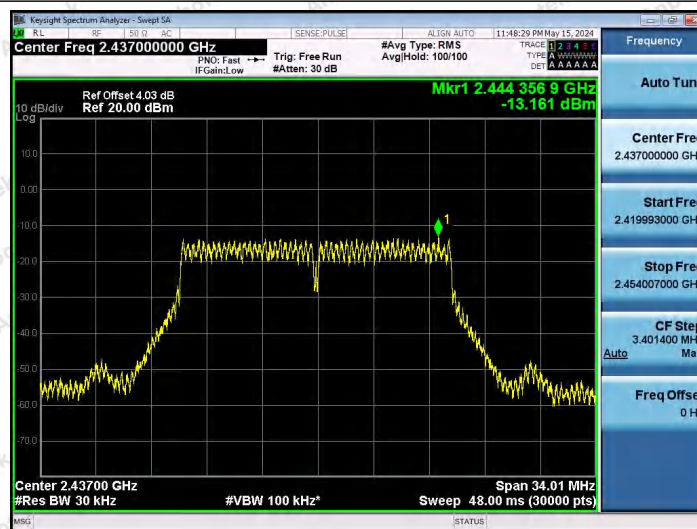


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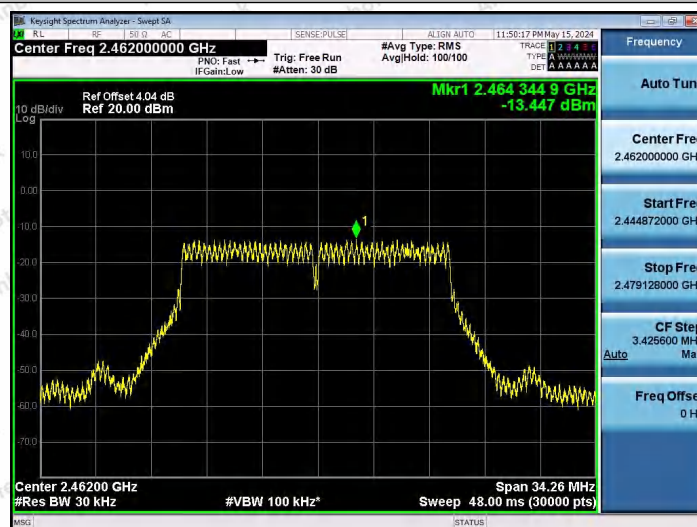




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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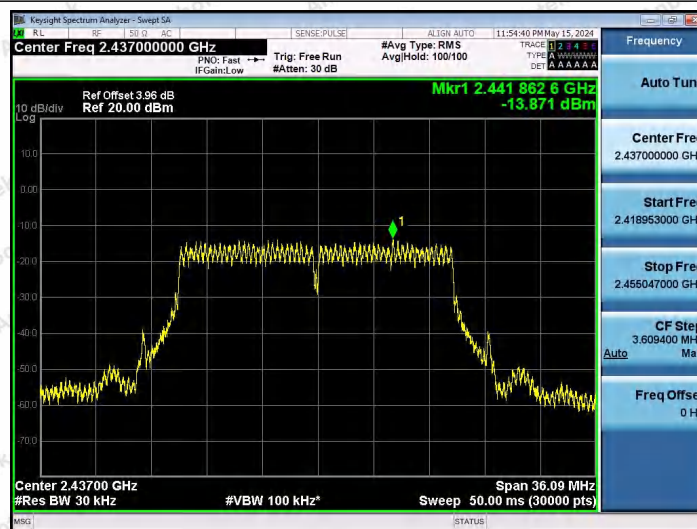


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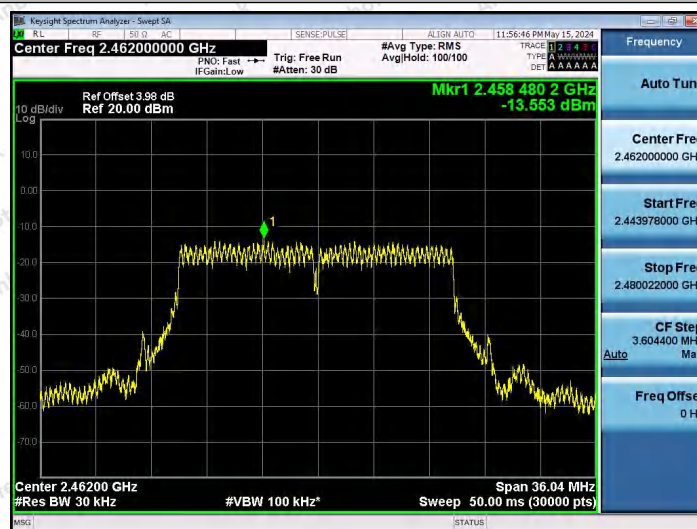




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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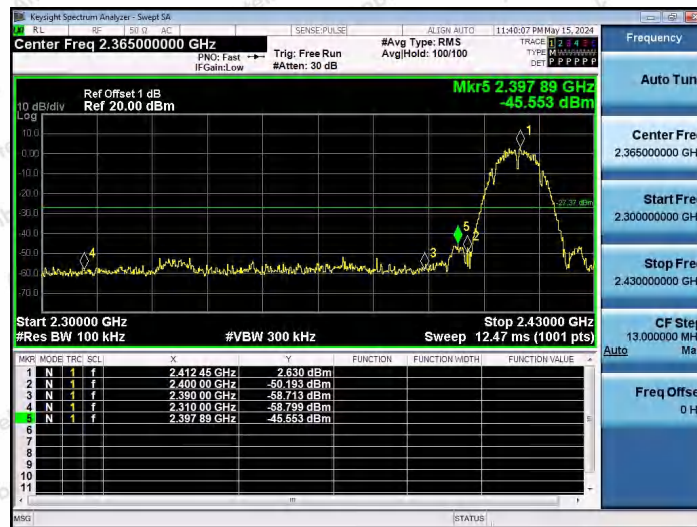
## Appendix E: Conducted Band edge

### Test Result

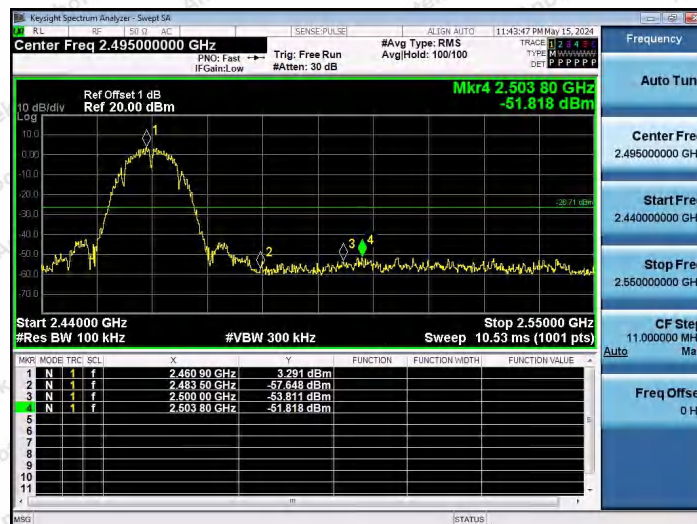
| TestMode  | Antenna | ChName | Frequency [MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|-----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412            | 2.63          | -45.55      | ≤-27.37    | PASS    |
| 11B       | Ant1    | High   | 2462            | 3.29          | -51.82      | ≤-26.71    | PASS    |
| 11G       | Ant1    | Low    | 2412            | -2.15         | -35.45      | ≤-32.15    | PASS    |
| 11G       | Ant1    | High   | 2462            | -1.10         | -46.07      | ≤-31.10    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412            | -1.85         | -36.25      | ≤-31.85    | PASS    |
| 11N20SISO | Ant1    | High   | 2462            | -1.56         | -45.74      | ≤-31.56    | PASS    |



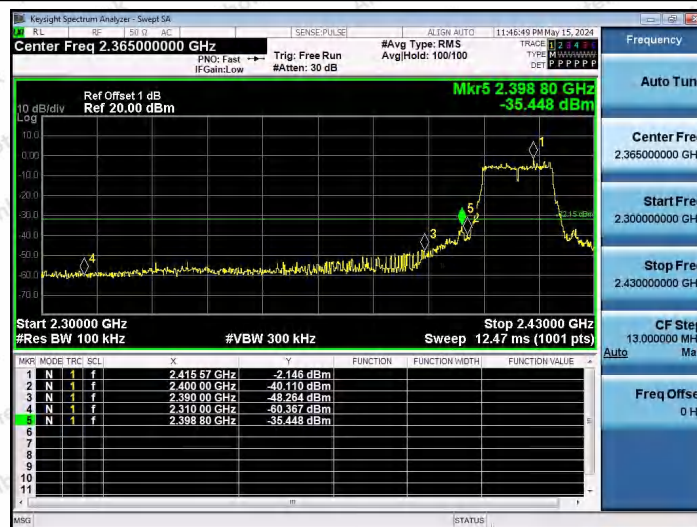
## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

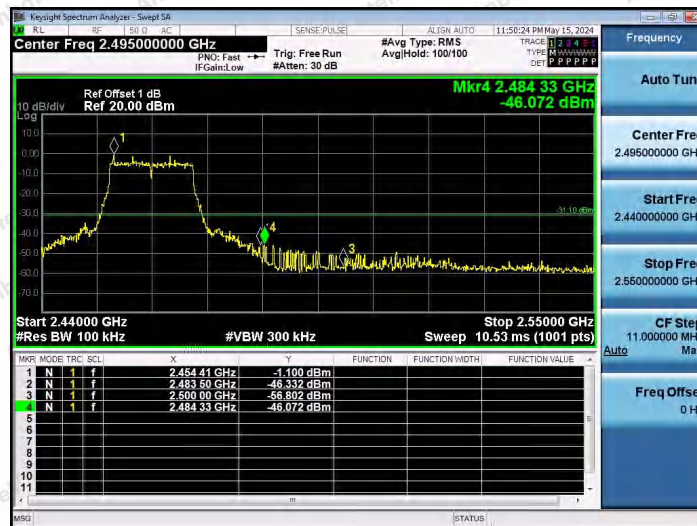
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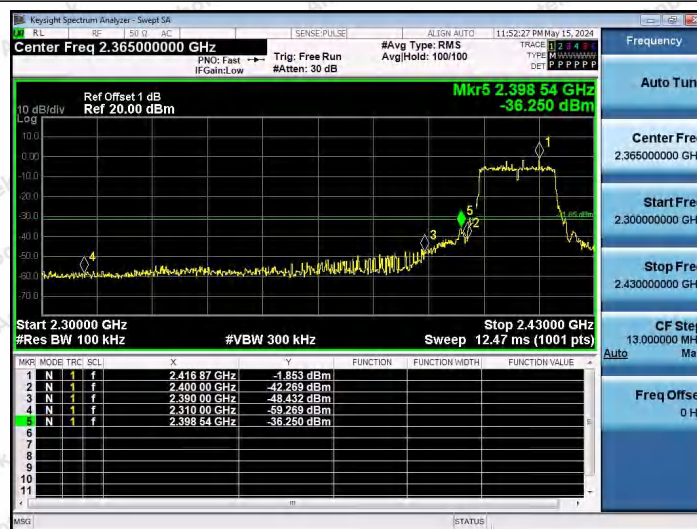


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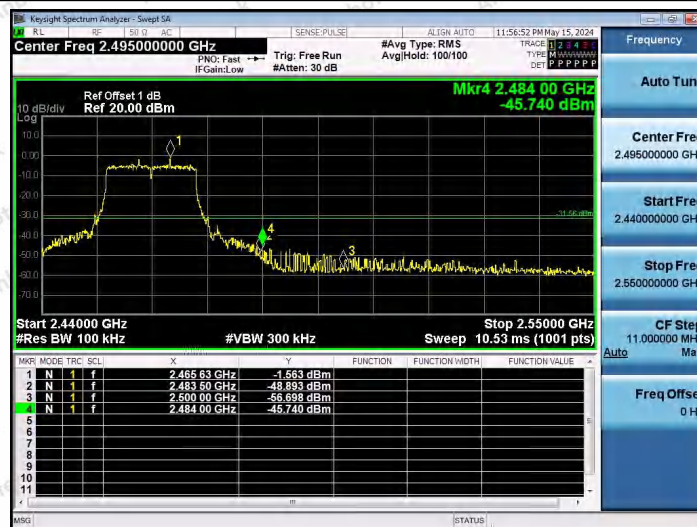




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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## Appendix F: Conducted Spurious Emission

### Test Result

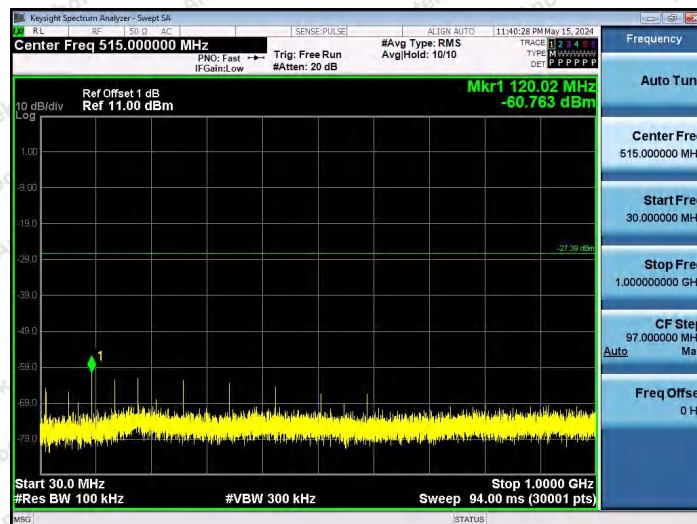
| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | 0~Reference     | 2.61           | 2.61         | ---         | PASS    |
| 11B       | Ant1    | 2412           | 30~1000         | 2.61           | -60.76       | ≤-27.39     | PASS    |
| 11B       | Ant1    | 2412           | 1000~26500      | 2.61           | -53.07       | ≤-27.39     | PASS    |
| 11B       | Ant1    | 2437           | 0~Reference     | 3.58           | 3.58         | ---         | PASS    |
| 11B       | Ant1    | 2437           | 30~1000         | 3.58           | -62.77       | ≤-26.42     | PASS    |
| 11B       | Ant1    | 2437           | 1000~26500      | 3.58           | -53.15       | ≤-26.42     | PASS    |
| 11B       | Ant1    | 2462           | 0~Reference     | 3.66           | 3.66         | ---         | PASS    |
| 11B       | Ant1    | 2462           | 30~1000         | 3.66           | -61.88       | ≤-26.34     | PASS    |
| 11B       | Ant1    | 2462           | 1000~26500      | 3.66           | -52.07       | ≤-26.34     | PASS    |
| 11G       | Ant1    | 2412           | 0~Reference     | -2.07          | -2.07        | ---         | PASS    |
| 11G       | Ant1    | 2412           | 30~1000         | -2.07          | -61.15       | ≤-32.07     | PASS    |
| 11G       | Ant1    | 2412           | 1000~26500      | -2.07          | -44.91       | ≤-32.07     | PASS    |
| 11G       | Ant1    | 2437           | 0~Reference     | -0.72          | -0.72        | ---         | PASS    |
| 11G       | Ant1    | 2437           | 30~1000         | -0.72          | -61.48       | ≤-30.72     | PASS    |
| 11G       | Ant1    | 2437           | 1000~26500      | -0.72          | -53.78       | ≤-30.72     | PASS    |
| 11G       | Ant1    | 2462           | 0~Reference     | -1.01          | -1.01        | ---         | PASS    |
| 11G       | Ant1    | 2462           | 30~1000         | -1.01          | -61.52       | ≤-31.01     | PASS    |
| 11G       | Ant1    | 2462           | 1000~26500      | -1.01          | -53.21       | ≤-31.01     | PASS    |
| 11N20SISO | Ant1    | 2412           | 0~Reference     | -1.82          | -1.82        | ---         | PASS    |
| 11N20SISO | Ant1    | 2412           | 30~1000         | -1.82          | -61.37       | ≤-31.82     | PASS    |
| 11N20SISO | Ant1    | 2412           | 1000~26500      | -1.82          | -53.61       | ≤-31.82     | PASS    |
| 11N20SISO | Ant1    | 2437           | 0~Reference     | -1.15          | -1.15        | ---         | PASS    |
| 11N20SISO | Ant1    | 2437           | 30~1000         | -1.15          | -62.14       | ≤-31.15     | PASS    |
| 11N20SISO | Ant1    | 2437           | 1000~26500      | -1.15          | -53.73       | ≤-31.15     | PASS    |
| 11N20SISO | Ant1    | 2462           | 0~Reference     | -1.42          | -1.42        | ---         | PASS    |
| 11N20SISO | Ant1    | 2462           | 30~1000         | -1.42          | -61.85       | ≤-31.42     | PASS    |
| 11N20SISO | Ant1    | 2462           | 1000~26500      | -1.42          | -53.71       | ≤-31.42     | PASS    |



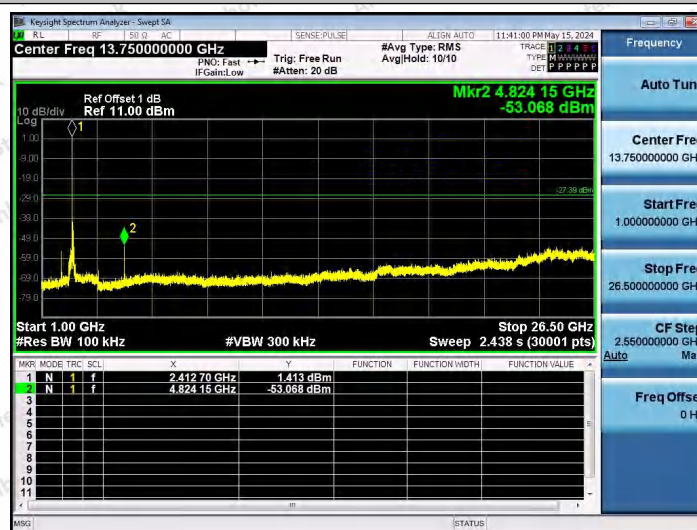
## Test Graphs



11B-Ant1-2412-0~Reference-PASS



11B-Ant1-2412-30~1000-PASS



11B-Ant1-2412-1000~26500-PASS

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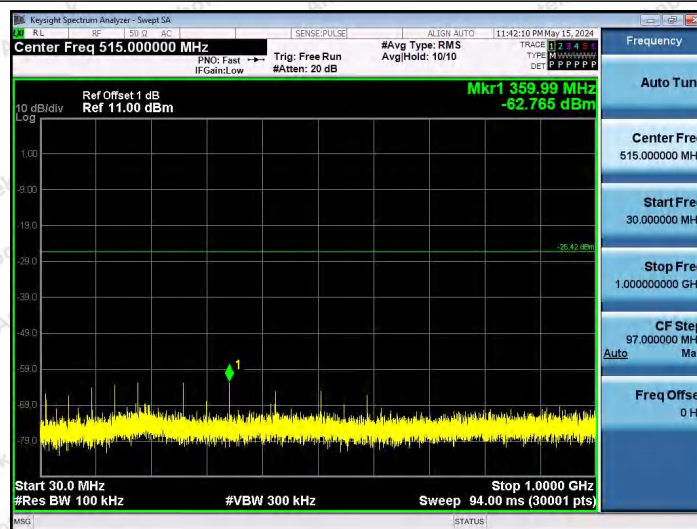


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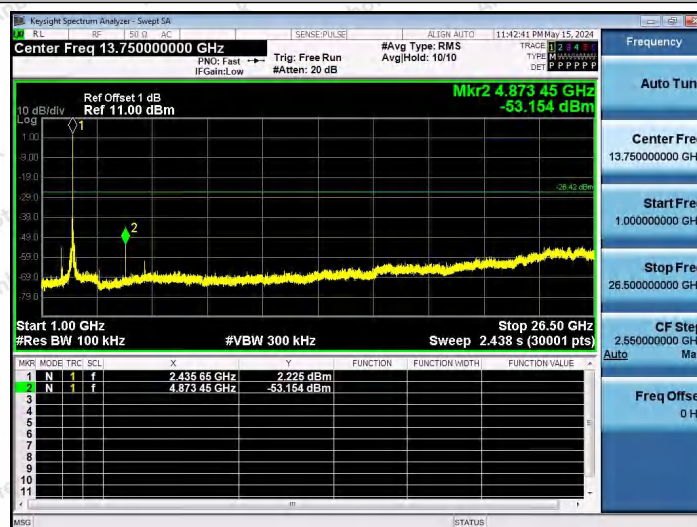




11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS

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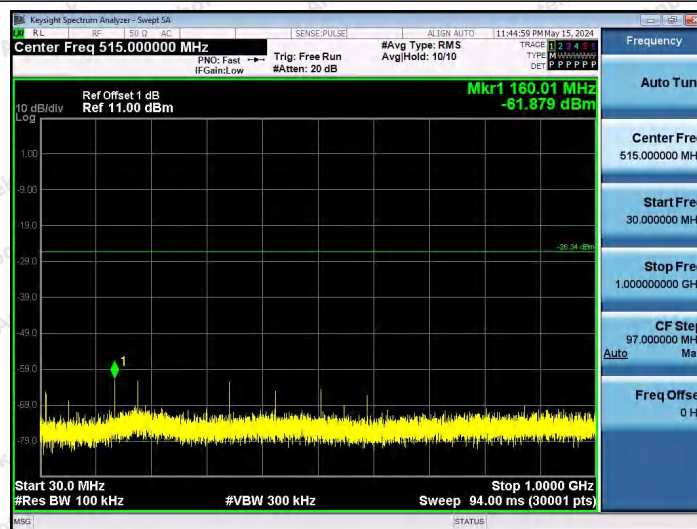


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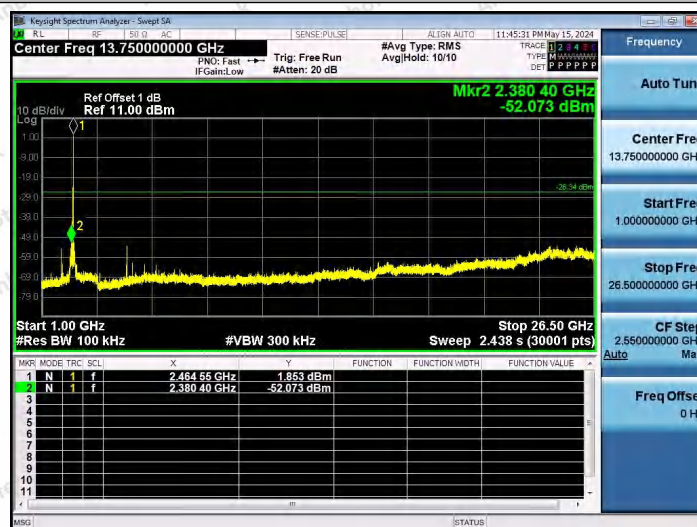




11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS

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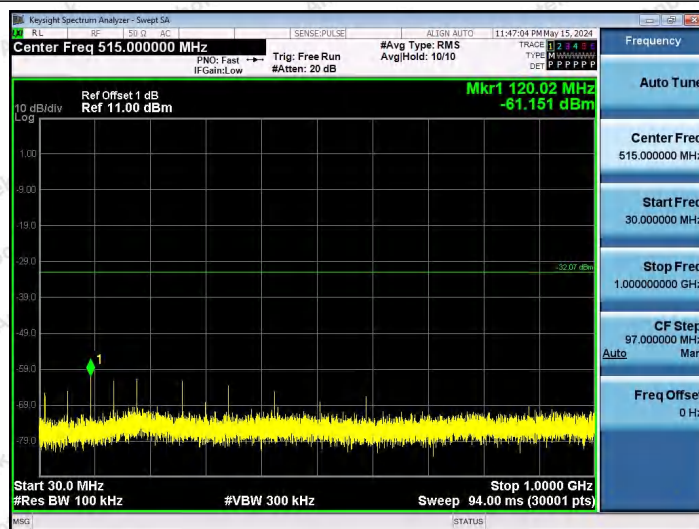


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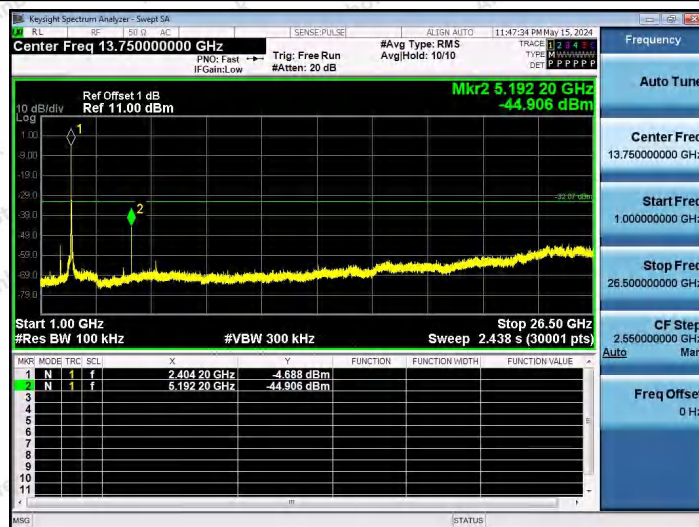




11G-Ant1-2412-0~Reference-PASS



11G-Ant1-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS

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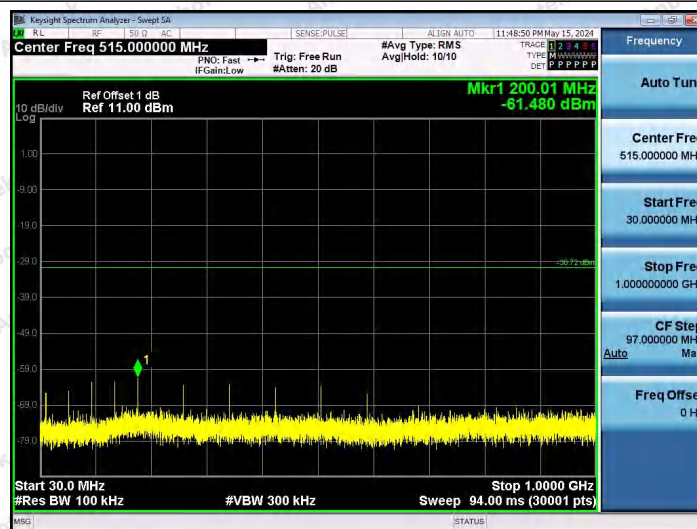


Hotline  
400-003-0500  
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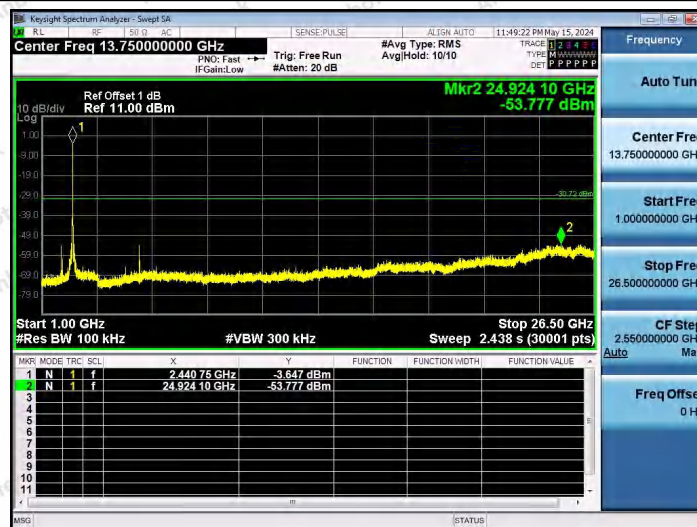




11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



11G-Ant1-2437-1000~26500-PASS

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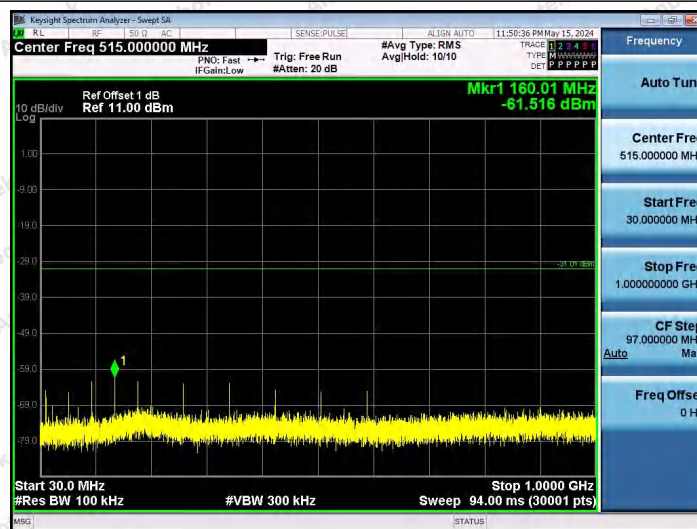


Hotline  
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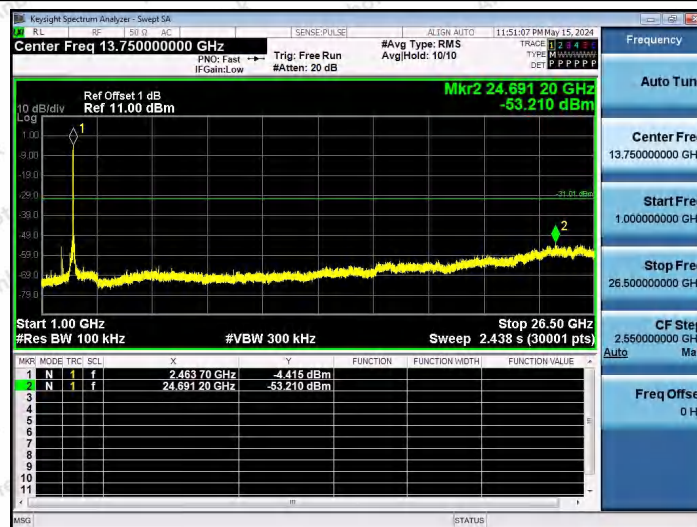




11G-Ant1-2462-0~Reference-PASS



11G-Ant1-2462-30~1000-PASS



11G-Ant1-2462-1000~26500-PASS

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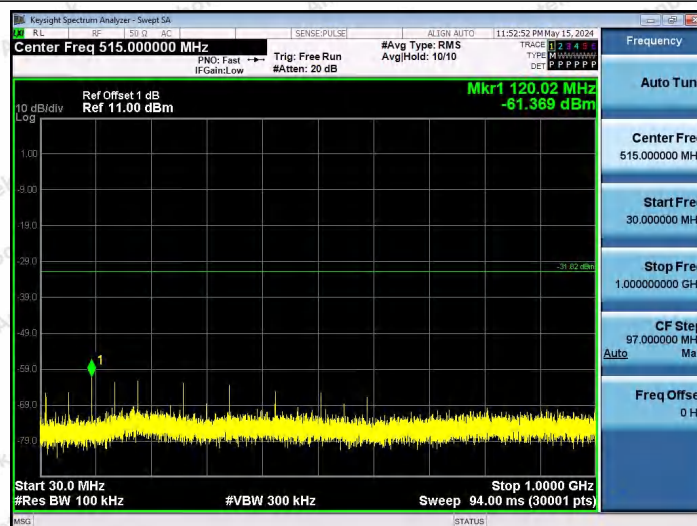


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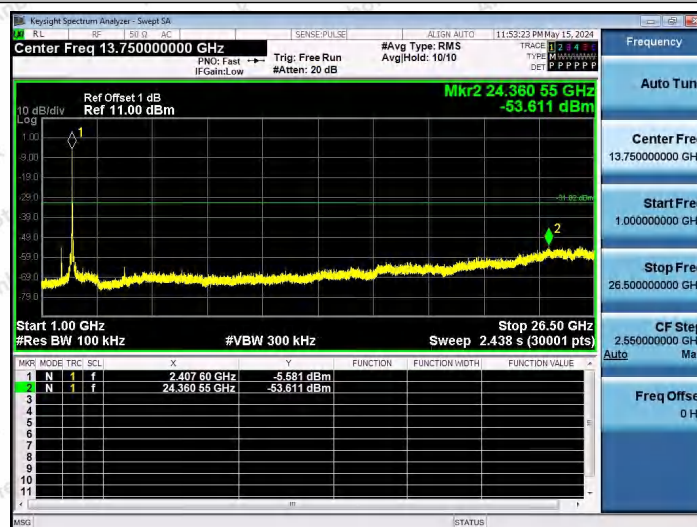




11N20SISO-Ant1-2412-0~Reference-PASS



11N20SISO-Ant1-2412-30~1000-PASS



11N20SISO-Ant1-2412-1000~26500-PASS

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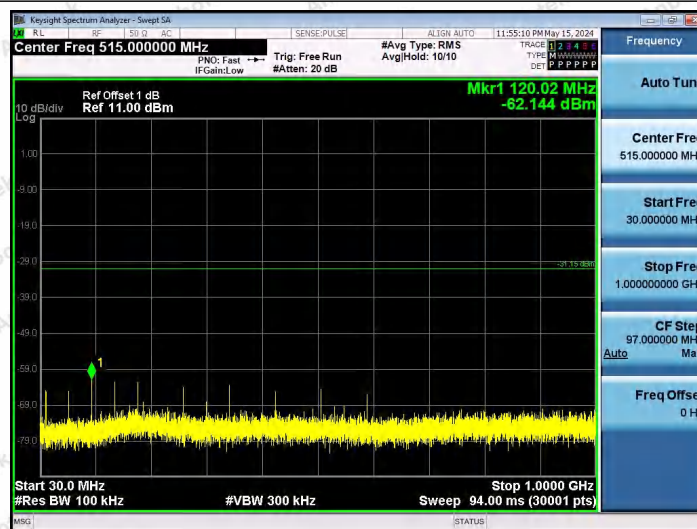


Hotline  
400-003-0500  
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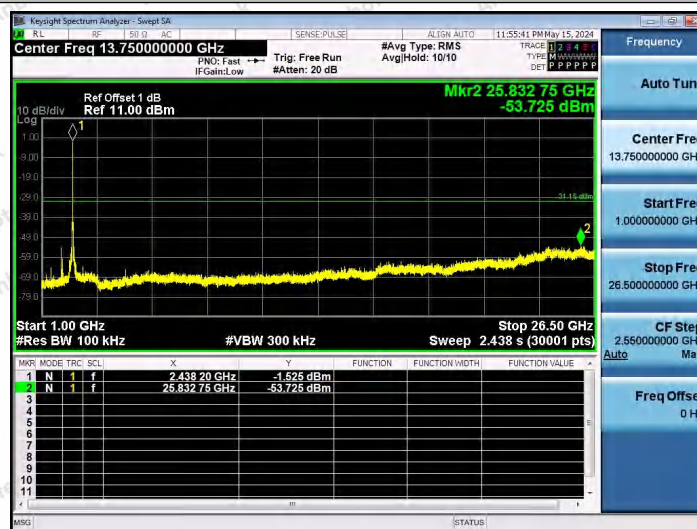




11N20SISO-Ant1-2437-0~Reference-PASS



11N20SISO-Ant1-2437-30~1000-PASS



11N20SISO-Ant1-2437-1000~26500-PASS

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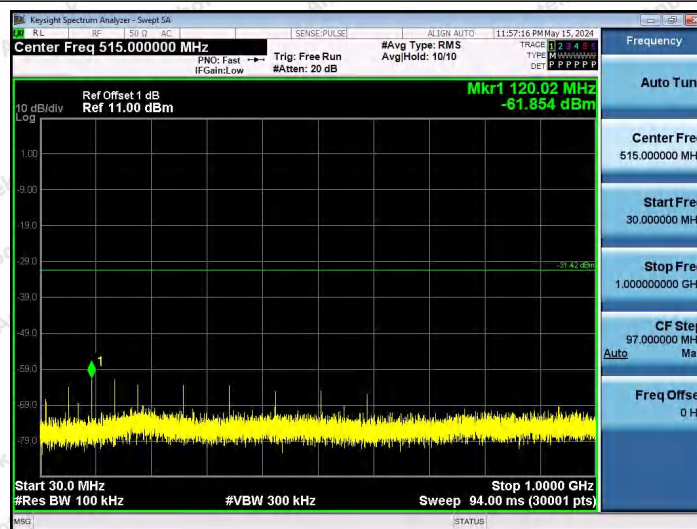
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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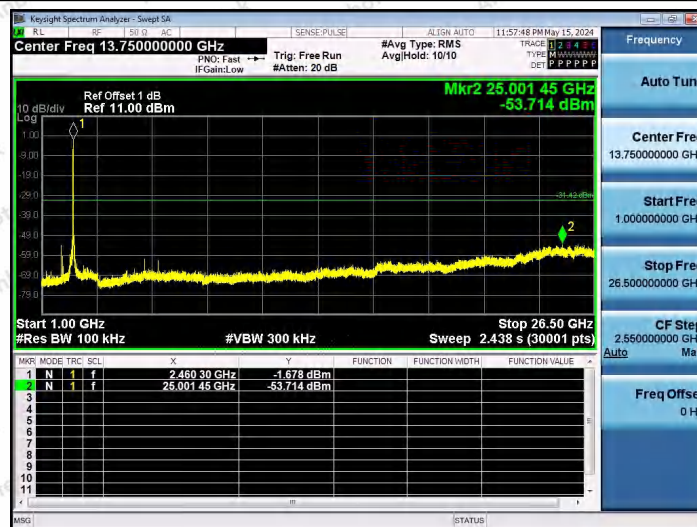




11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



11N20SISO-Ant1-2462-1000~26500-PASS

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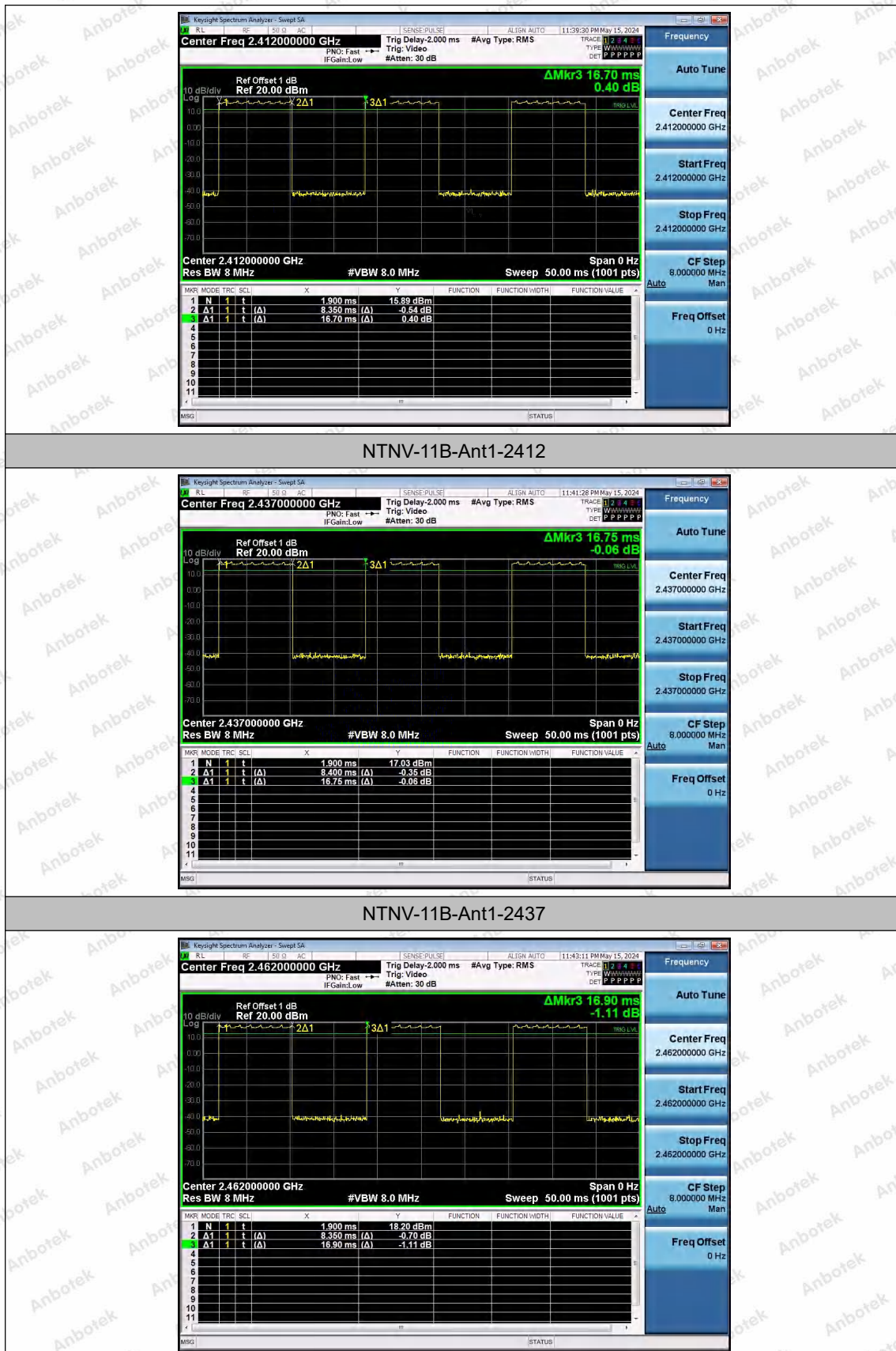
## Appendix G: Duty Cycle

### Test Result

| TestMode  | Antenna | Frequency<br>[MHz] | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | Factor |
|-----------|---------|--------------------|-------------------------------|-----------------------------|-------------------|--------|
| 11B       | Ant1    | 2412               | 8.35                          | 16.70                       | 50.00             | 3.01   |
| 11B       | Ant1    | 2437               | 8.40                          | 16.75                       | 50.15             | 3.00   |
| 11B       | Ant1    | 2462               | 8.35                          | 16.90                       | 49.41             | 3.06   |
| 11G       | Ant1    | 2412               | 2.02                          | 4.41                        | 45.80             | 3.39   |
| 11G       | Ant1    | 2437               | 2.03                          | 4.08                        | 49.75             | 3.03   |
| 11G       | Ant1    | 2462               | 2.02                          | 4.07                        | 49.63             | 3.04   |
| 11N20SISO | Ant1    | 2412               | 1.89                          | 3.75                        | 50.40             | 2.98   |
| 11N20SISO | Ant1    | 2437               | 1.89                          | 3.74                        | 50.53             | 2.96   |
| 11N20SISO | Ant1    | 2462               | 1.89                          | 3.75                        | 50.40             | 2.98   |



## Test Graphs



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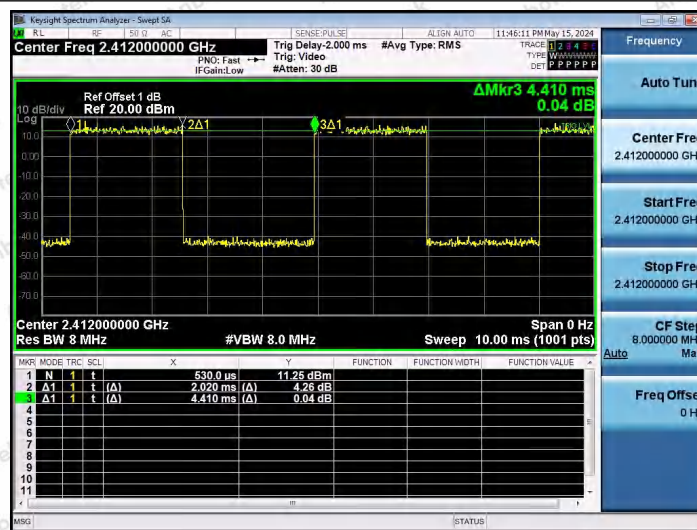
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



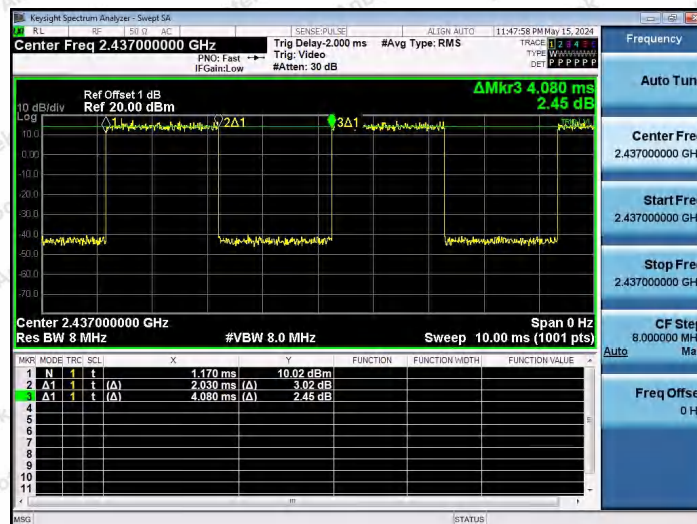
Hotline  
 400-003-0500  
 www.anbotek.com.cn



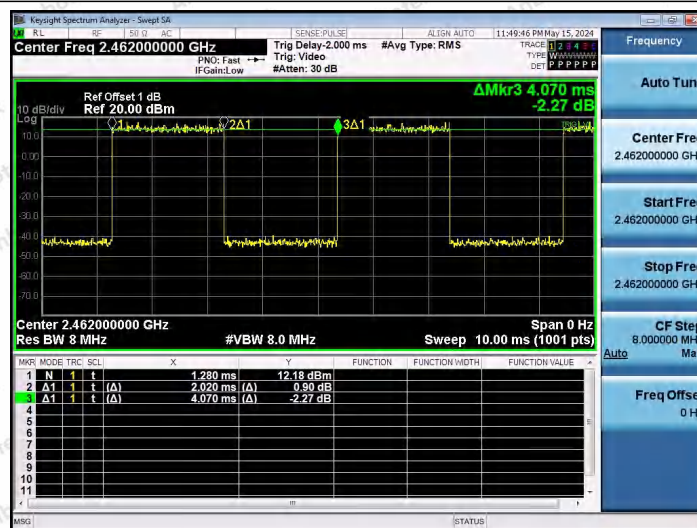
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

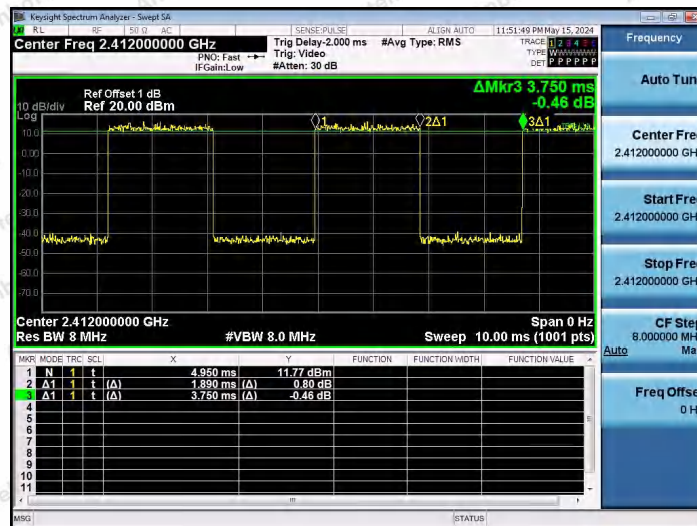
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

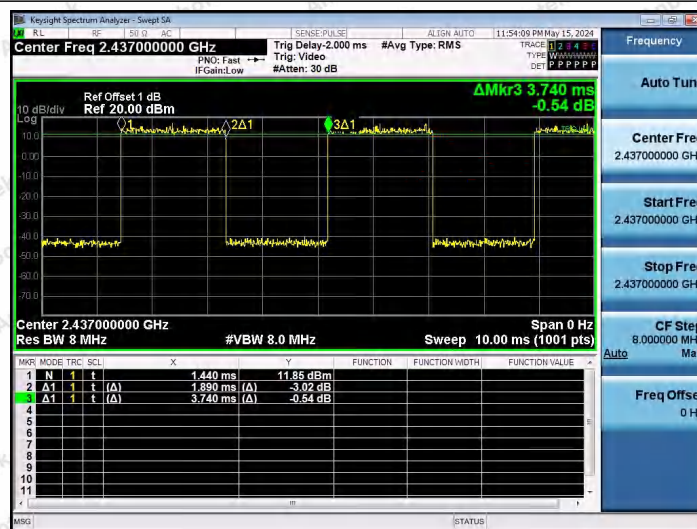


Hotline  
 400-003-0500  
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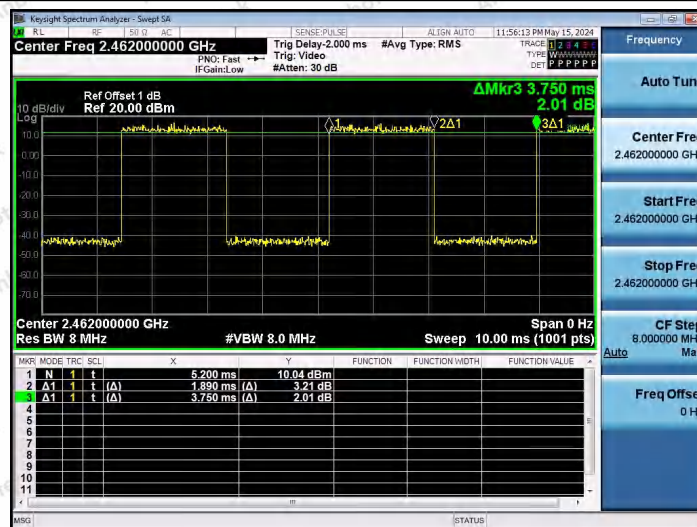




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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