

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20151901 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.7.8        | Finish Test Date:  | 2022.7.22         |
| Test Engineer:   | <i>Jony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 22.8°C          | Relative Humidity: | 56.4 %            |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 8.680        | 2407.920 | 2416.600 | ≥0.5       | PASS    |
|           |         | 2437    | 9.120        | 2432.440 | 2441.560 | ≥0.5       | PASS    |
|           |         | 2462    | 9.120        | 2457.440 | 2466.560 | ≥0.5       | PASS    |
| 11G       | Ant1    | 2412    | 16.440       | 2403.800 | 2420.240 | ≥0.5       | PASS    |
|           |         | 2437    | 16.440       | 2428.800 | 2445.240 | ≥0.5       | PASS    |
|           |         | 2462    | 16.440       | 2453.800 | 2470.240 | ≥0.5       | PASS    |
| 11N20     | Ant1    | 2412    | 17.720       | 2403.160 | 2420.880 | ≥0.5       | PASS    |
|           |         | 2437    | 17.680       | 2428.160 | 2445.840 | ≥0.5       | PASS    |
|           |         | 2462    | 17.680       | 2453.160 | 2470.840 | ≥0.5       | PASS    |
| 11N40     | Ant1    | 2422    | 36.180       | 2404.000 | 2440.180 | ≥0.5       | PASS    |
|           |         | 2437    | 35.940       | 2419.000 | 2454.940 | ≥0.5       | PASS    |
|           |         | 2452    | 35.880       | 2434.060 | 2469.940 | ≥0.5       | PASS    |

## Test Graphs

11B\_Ant1\_2412



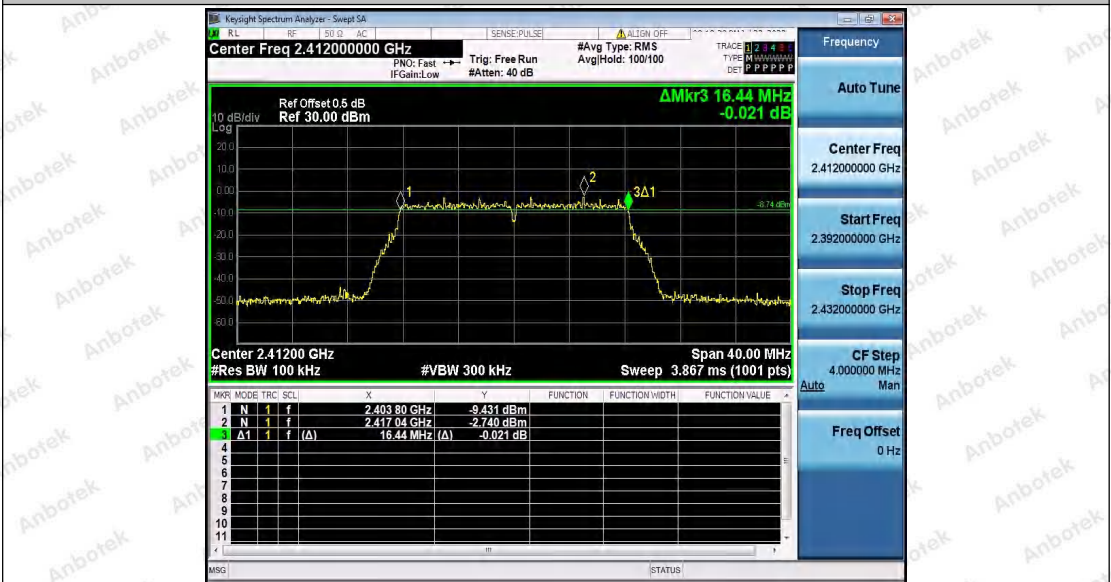
11B\_Ant1\_2437



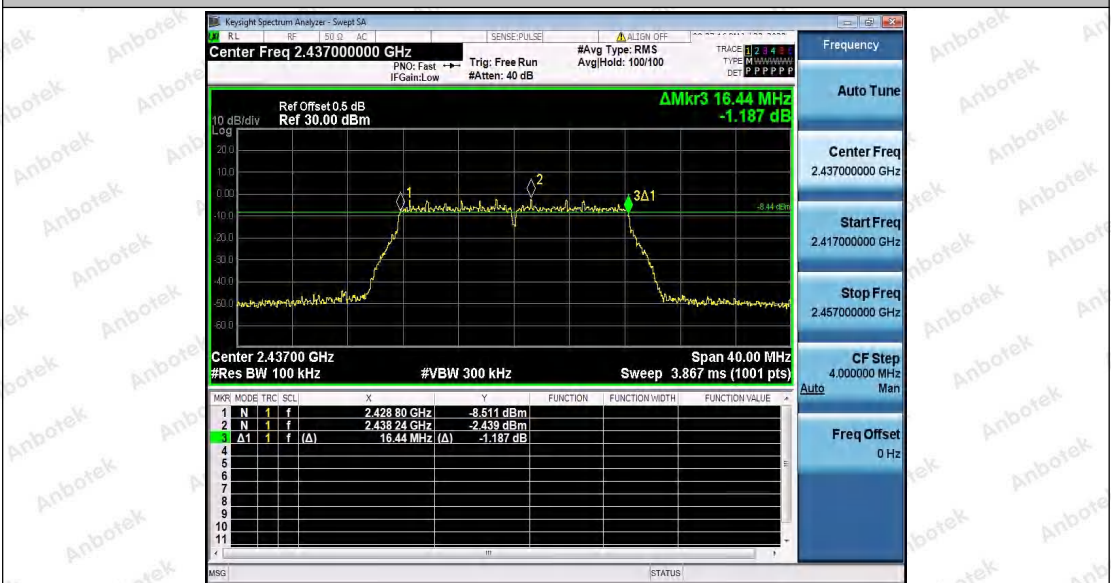
11B\_Ant1\_2462



11G\_Ant1\_2412



11G\_Ant1\_2437



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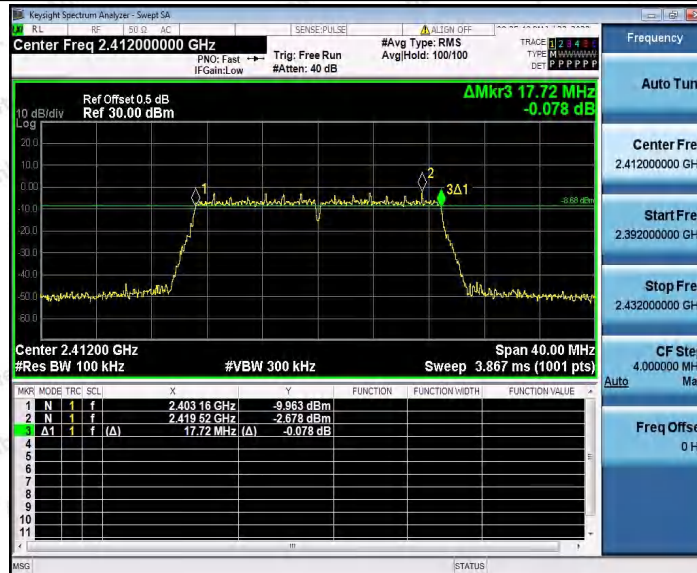
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11G\_Ant1\_2462



11N20\_Ant1\_2412

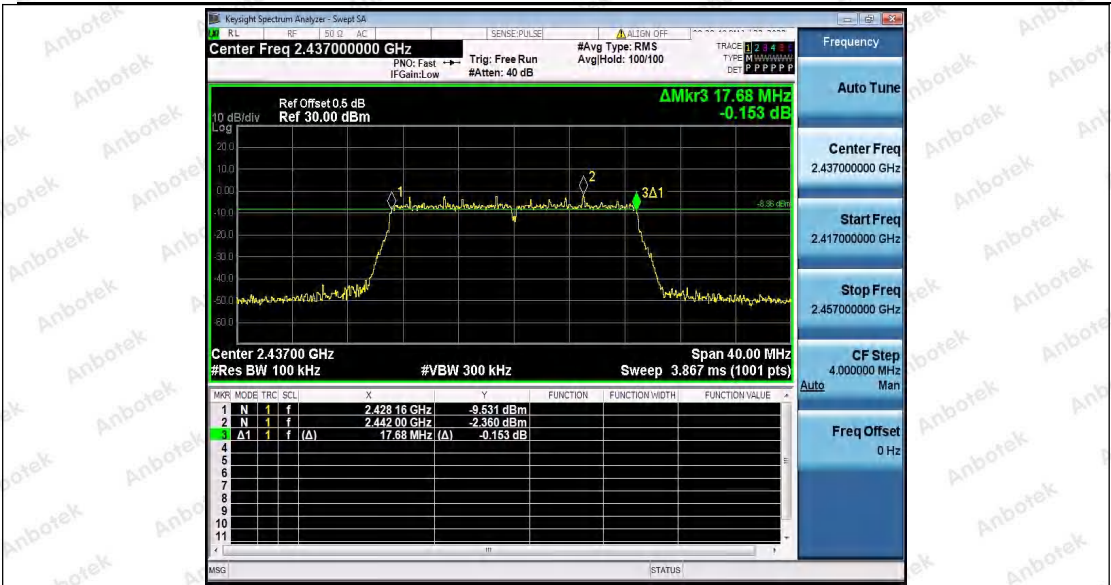


11N20\_Ant1\_2437

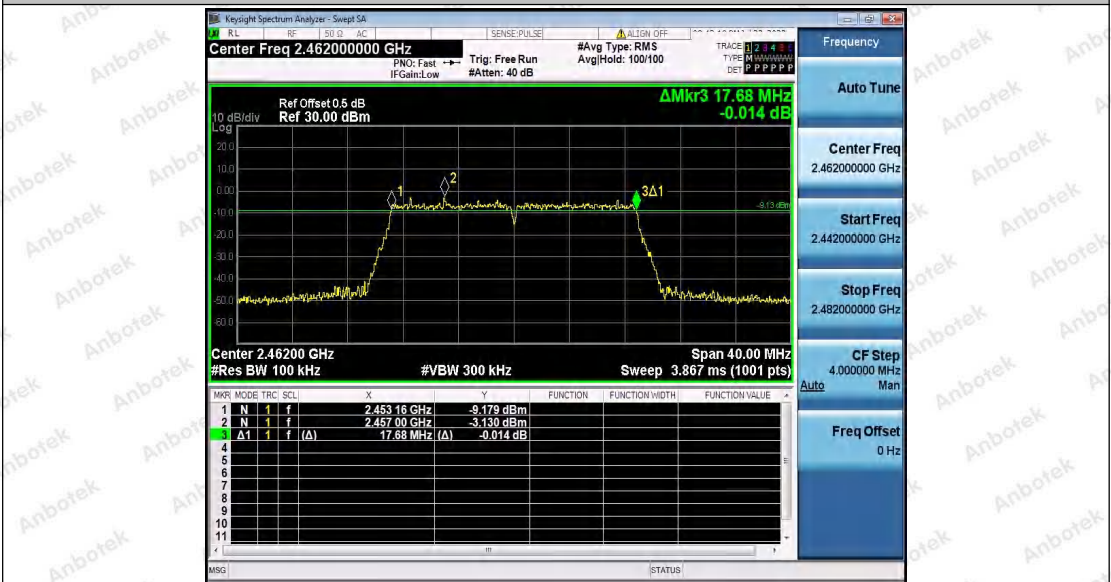
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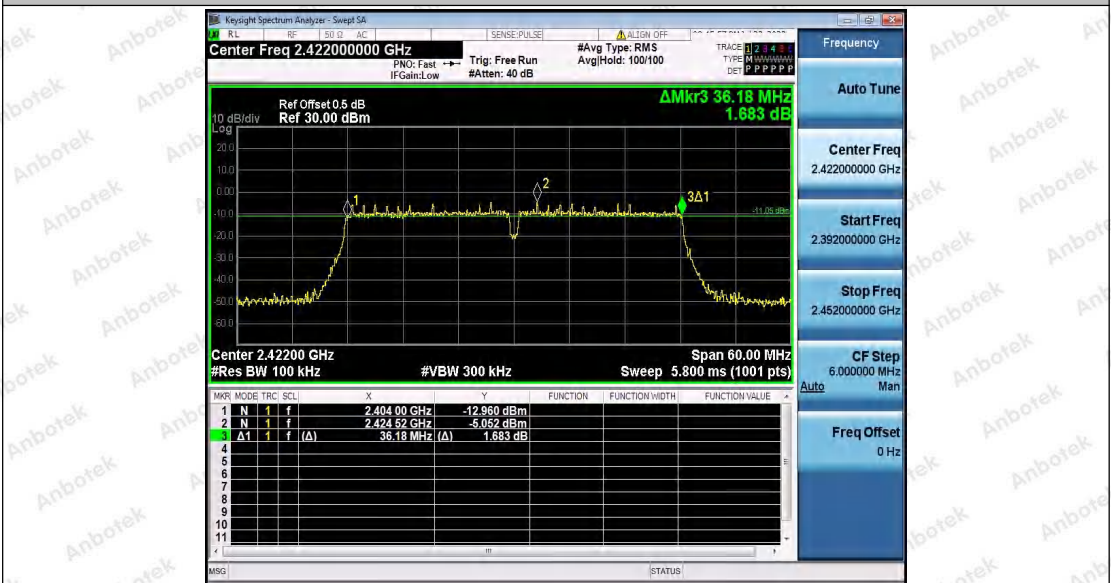
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11N20\_Ant1\_2462



11N40\_Ant1\_2422

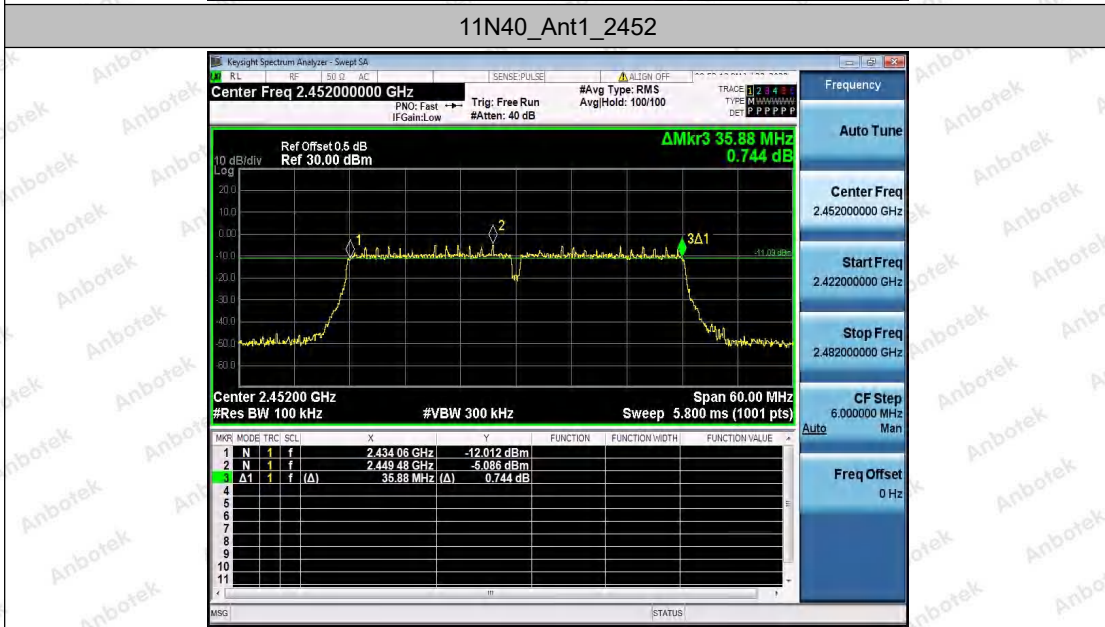
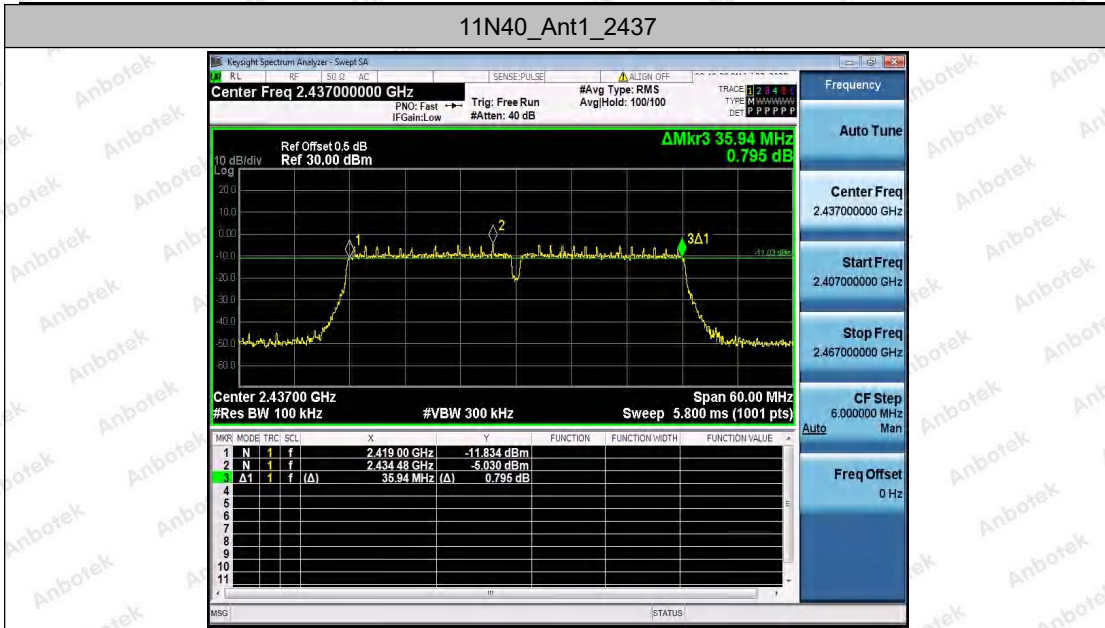


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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 12.287    | 2405.918 | 2418.205 | ---        | PASS    |
|           |         | 2437    | 12.310    | 2430.890 | 2443.200 | ---        | PASS    |
|           |         | 2462    | 12.304    | 2455.888 | 2468.192 | ---        | PASS    |
| 11G       | Ant1    | 2412    | 17.004    | 2403.527 | 2420.531 | ---        | PASS    |
|           |         | 2437    | 17.038    | 2428.509 | 2445.547 | ---        | PASS    |
|           |         | 2462    | 17.060    | 2453.491 | 2470.551 | ---        | PASS    |
| 11N20     | Ant1    | 2412    | 17.921    | 2403.086 | 2421.007 | ---        | PASS    |
|           |         | 2437    | 18.005    | 2428.034 | 2446.039 | ---        | PASS    |
|           |         | 2462    | 18.002    | 2453.054 | 2471.056 | ---        | PASS    |
| 11N40     | Ant1    | 2422    | 36.183    | 2403.965 | 2440.148 | ---        | PASS    |
|           |         | 2437    | 36.161    | 2418.970 | 2455.131 | ---        | PASS    |
|           |         | 2452    | 36.182    | 2433.946 | 2470.128 | ---        | PASS    |

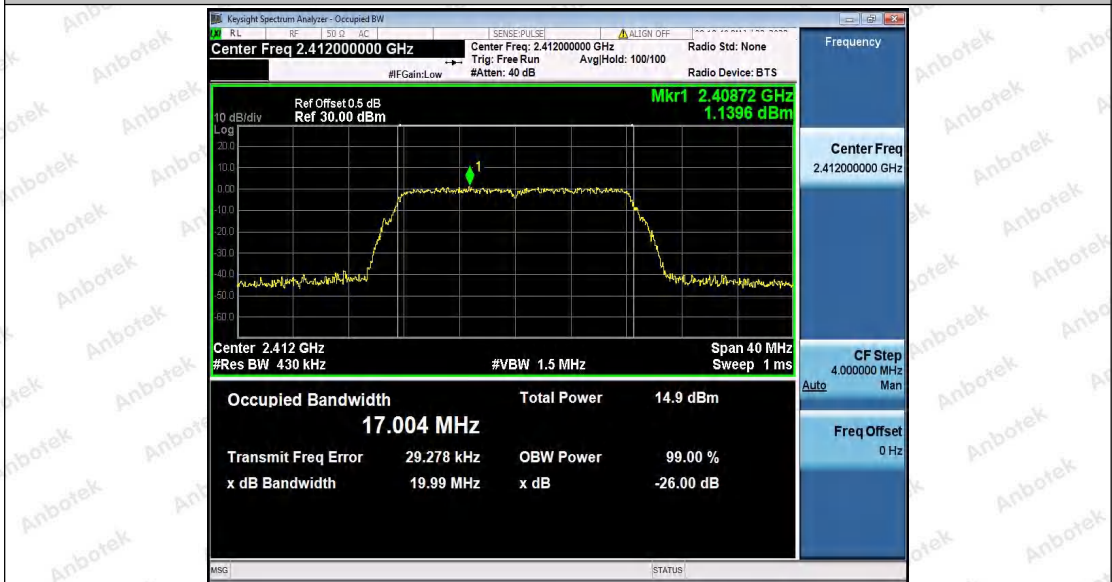
## Test Graphs



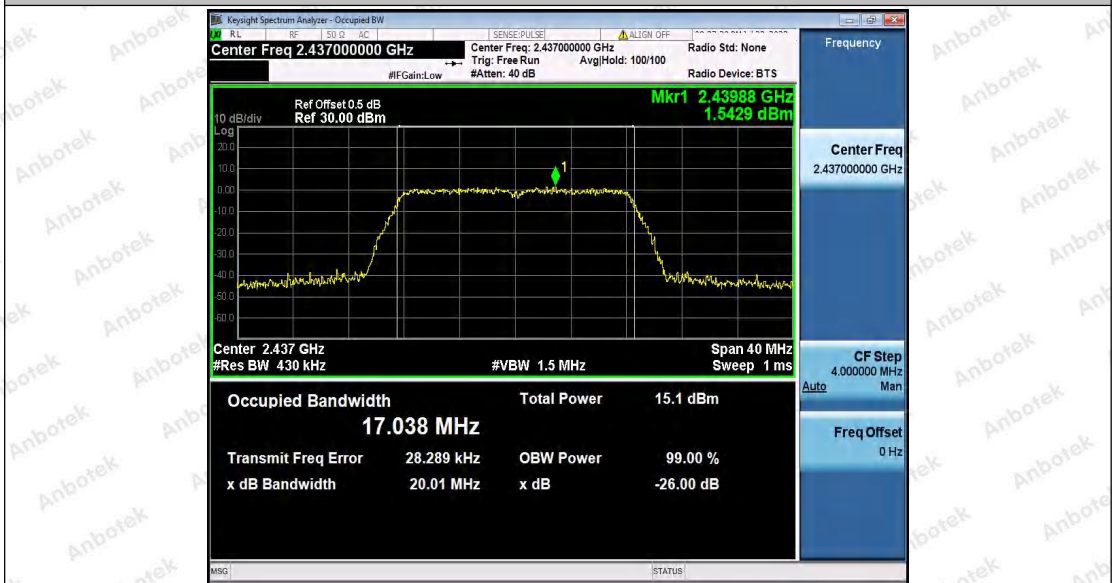




11G\_Ant1\_2412



11G\_Ant1\_2437



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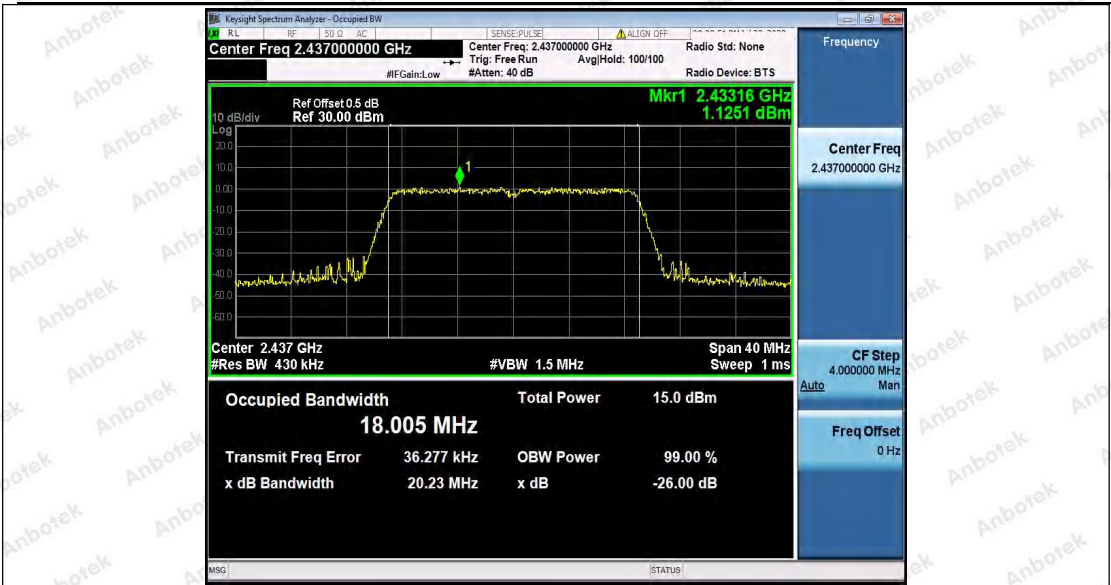
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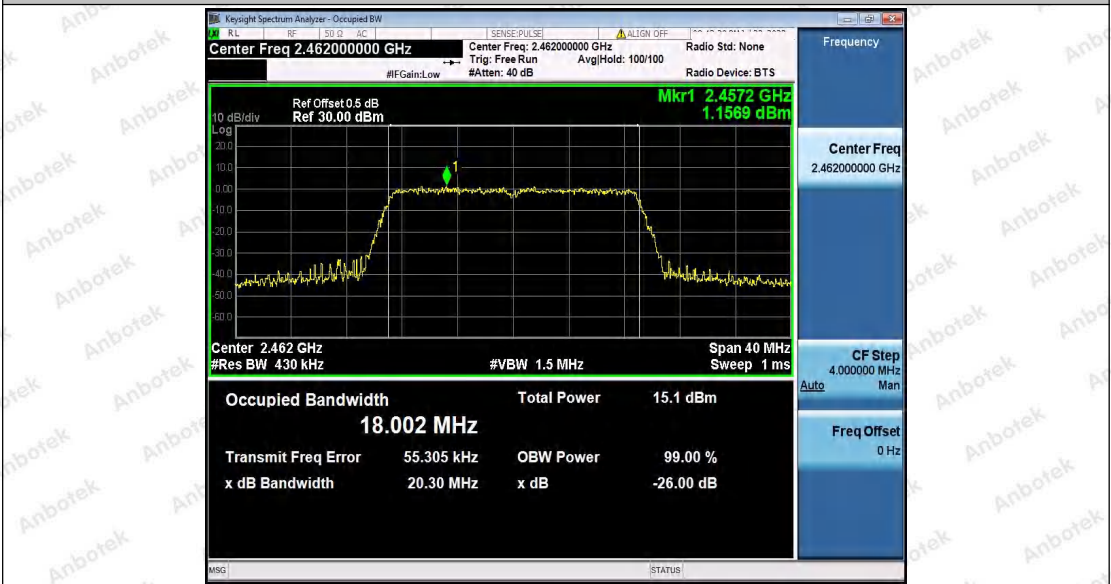
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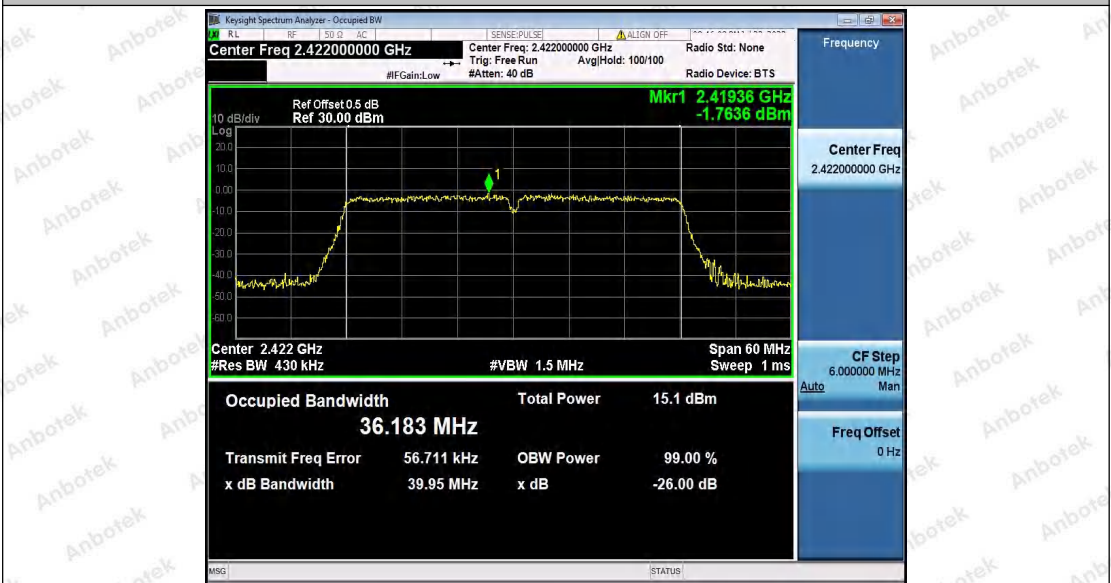
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11N20\_Ant1\_2462



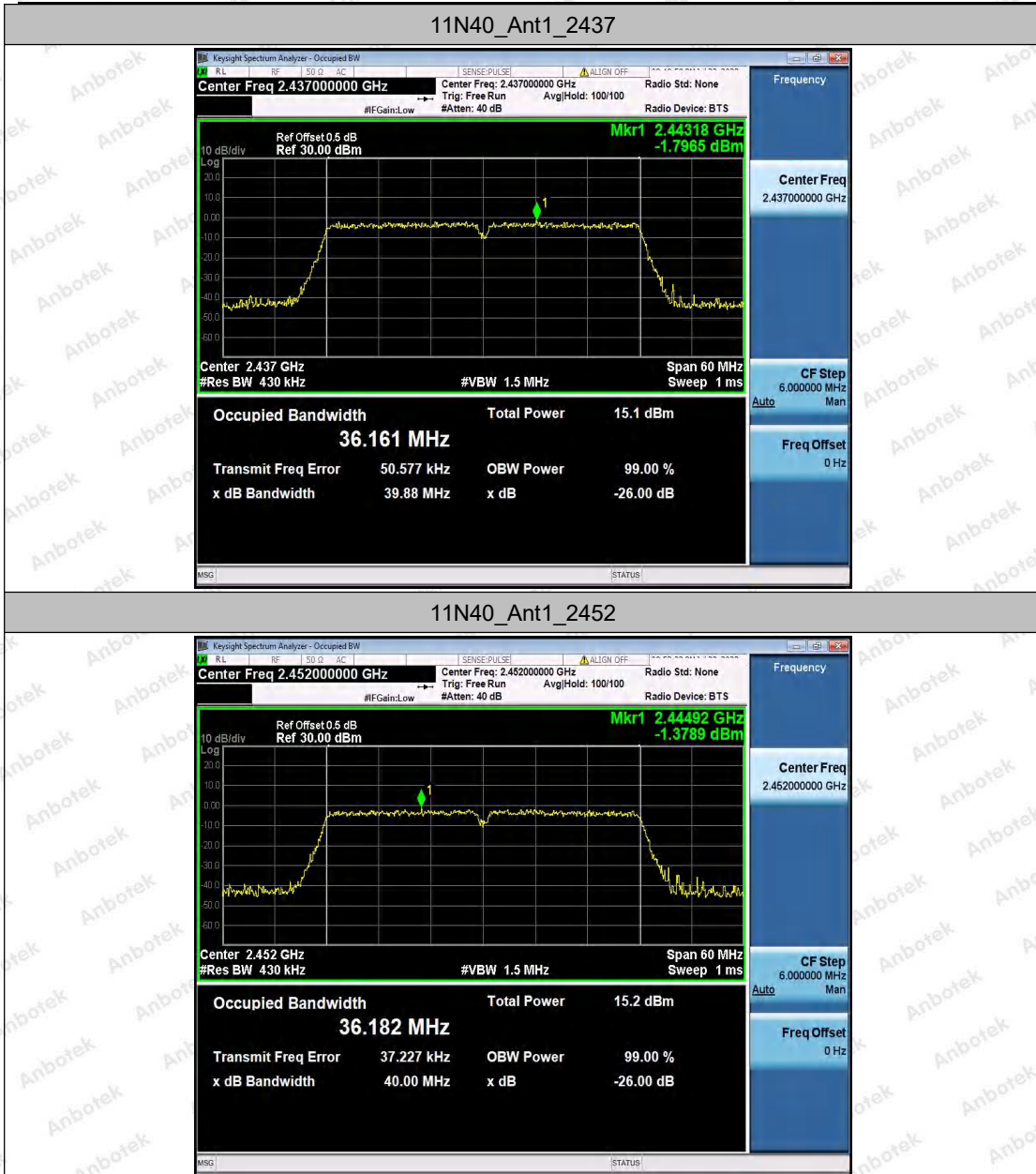
11N40\_Ant1\_2422



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## Appendix C: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant1    | 2412    | 16.86       | ≤30        | PASS    |
|           |         | 2437    | 17.06       | ≤30        | PASS    |
|           |         | 2462    | 16.63       | ≤30        | PASS    |
| 11G       | Ant1    | 2412    | 16.12       | ≤30        | PASS    |
|           |         | 2437    | 16.11       | ≤30        | PASS    |
|           |         | 2462    | 17.09       | ≤30        | PASS    |
| 11N20     | Ant1    | 2412    | 16.06       | ≤30        | PASS    |
|           |         | 2437    | 16.17       | ≤30        | PASS    |
|           |         | 2462    | 16.17       | ≤30        | PASS    |
| 11N40     | Ant1    | 2422    | 13.71       | ≤30        | PASS    |
|           |         | 2437    | 13.75       | ≤30        | PASS    |
|           |         | 2452    | 13.70       | ≤30        | PASS    |

## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| 11B      | Ant1    | 2412    | -7.72            | ≤8              | PASS    |
|          |         | 2437    | -8.13            | ≤8              | PASS    |
|          |         | 2462    | -8.55            | ≤8              | PASS    |
| 11G      | Ant1    | 2412    | -16.43           | ≤8              | PASS    |
|          |         | 2437    | -16.85           | ≤8              | PASS    |
|          |         | 2462    | -15.02           | ≤8              | PASS    |
| 11N20    | Ant1    | 2412    | -16.11           | ≤8              | PASS    |
|          |         | 2437    | -15.86           | ≤8              | PASS    |
|          |         | 2462    | -16.58           | ≤8              | PASS    |
| 11N40    | Ant1    | 2422    | -19.47           | ≤8              | PASS    |
|          |         | 2437    | -19.45           | ≤8              | PASS    |
|          |         | 2452    | -19.3            | ≤8              | PASS    |

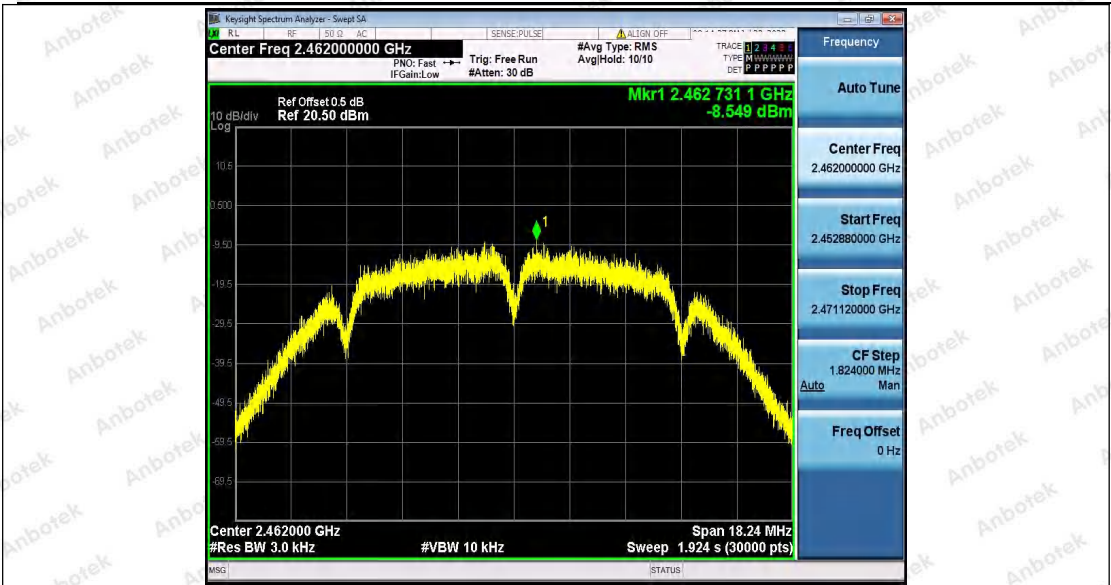
## Test Graphs



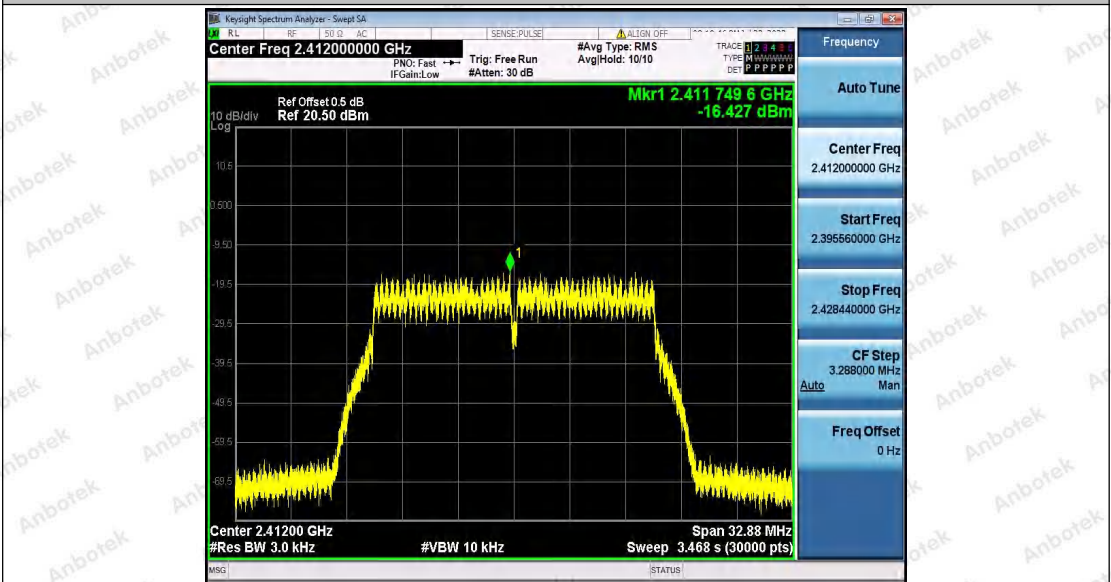
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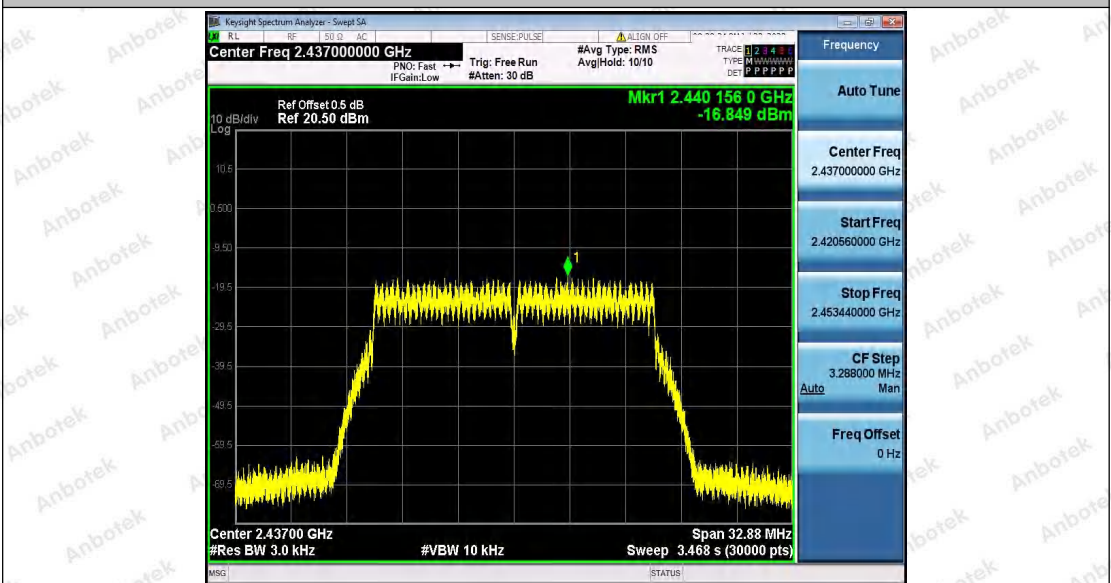
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11G\_Ant1\_2412



11G\_Ant1\_2437



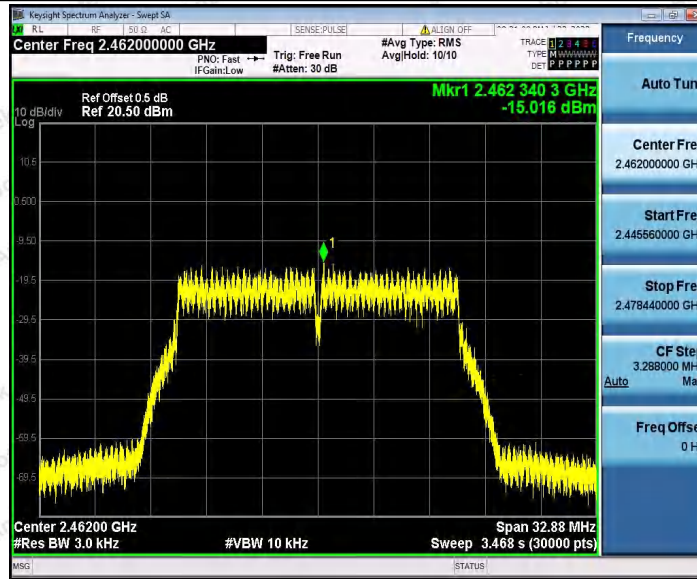
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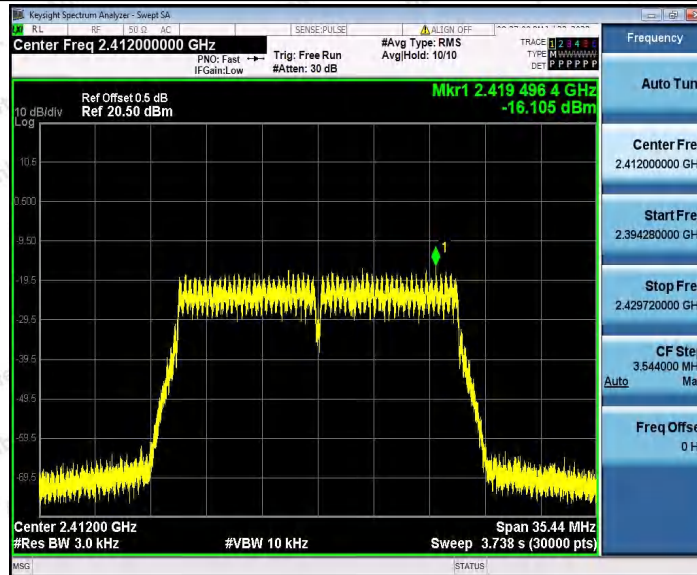
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11G\_Ant1\_2462



11N20\_Ant1\_2412

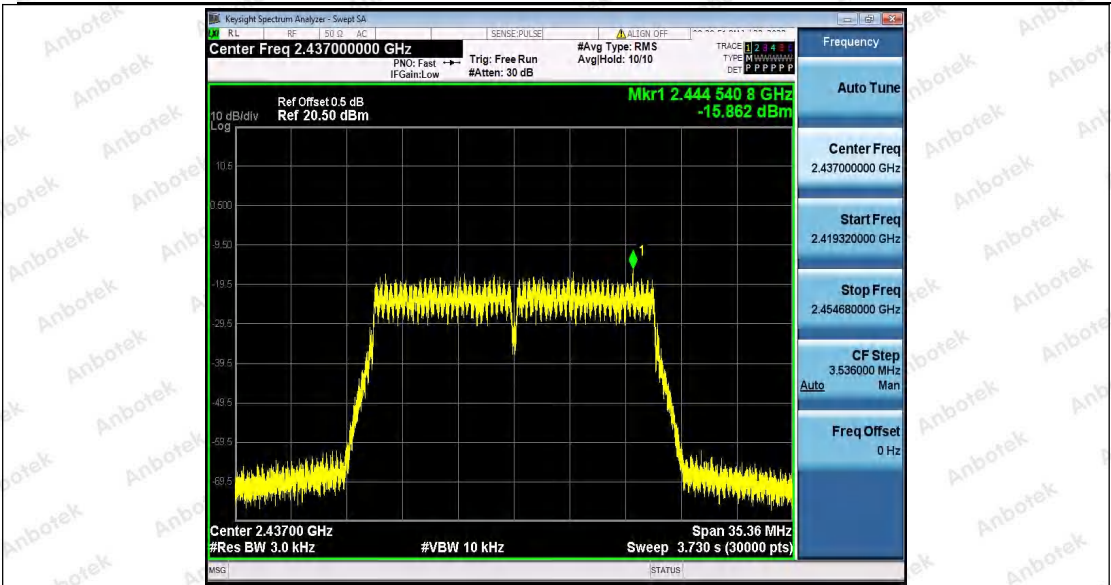


11N20\_Ant1\_2437

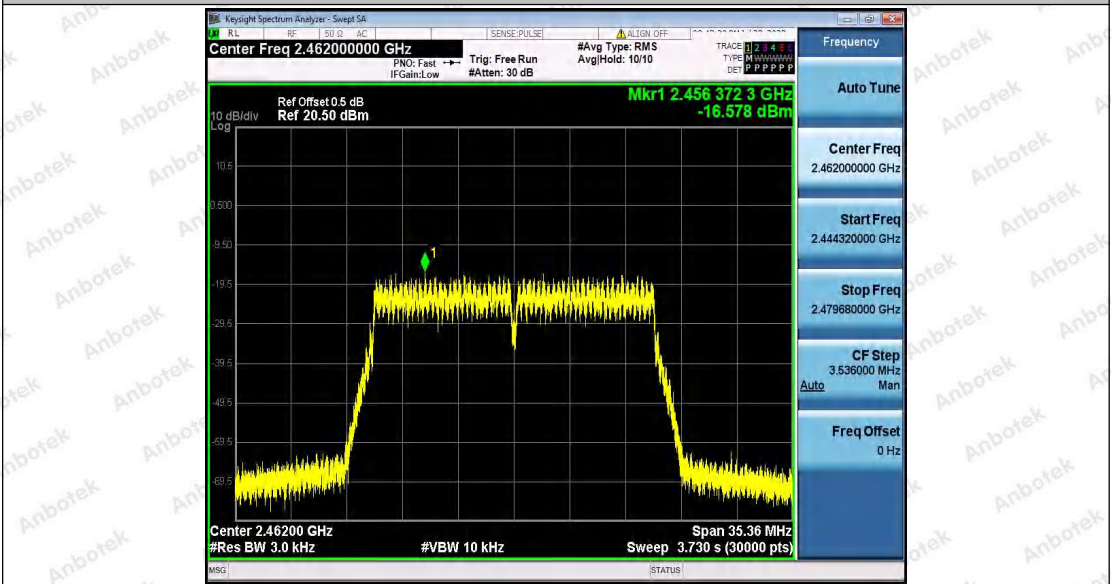
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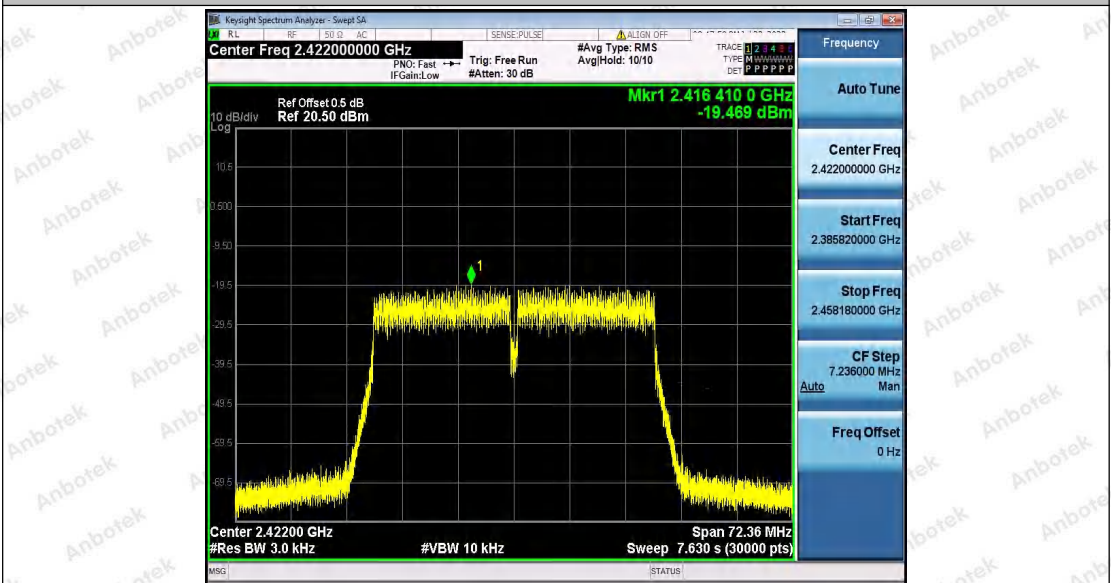
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11N20\_Ant1\_2462



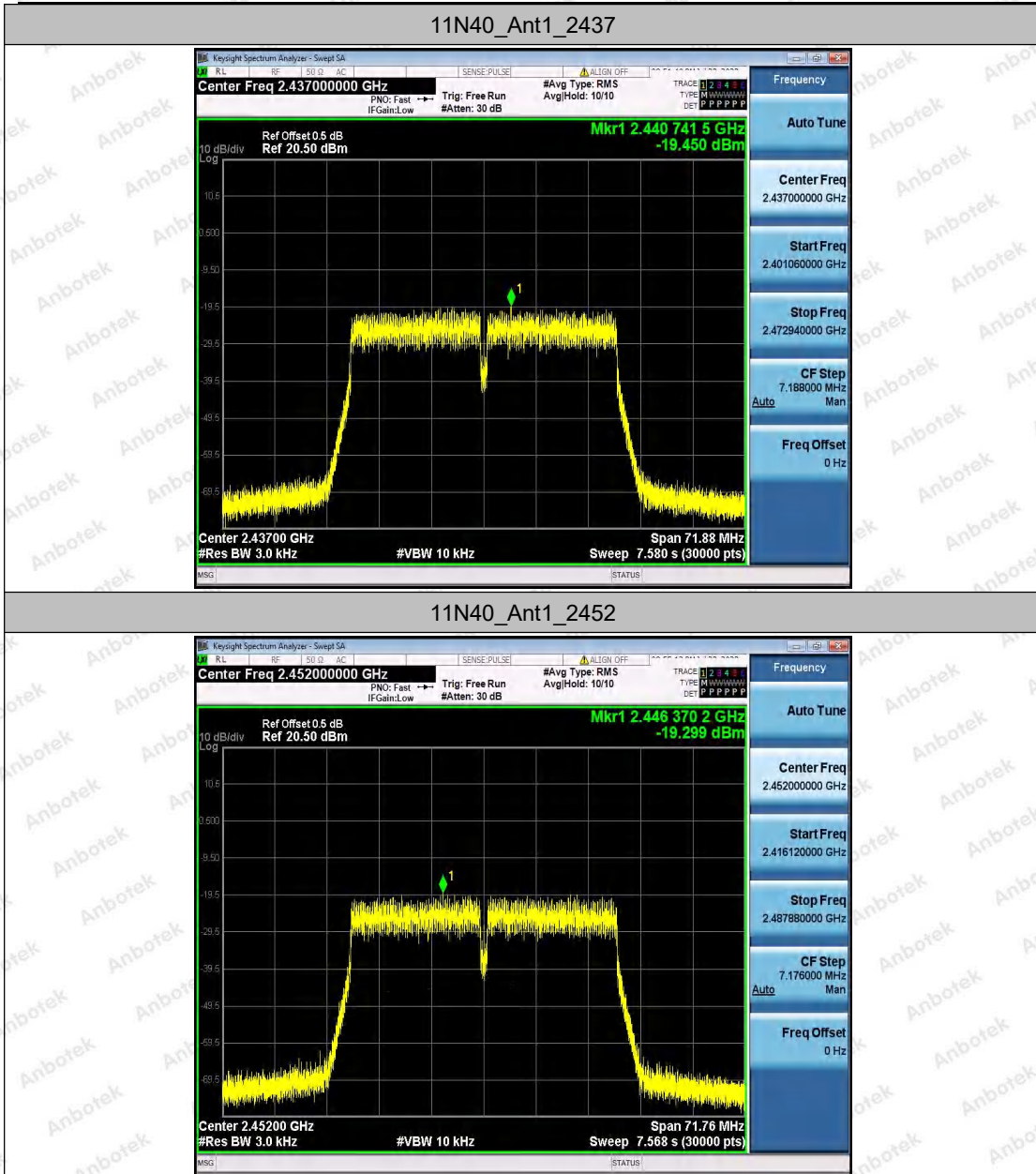
11N40\_Ant1\_2422



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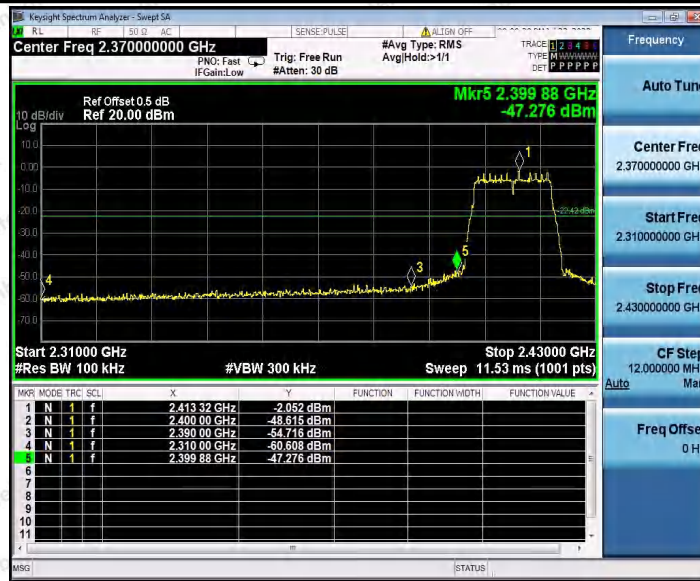
## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | Ch Name | Channel | Ref Level[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|---------|----------------|-------------|------------|---------|
| 11B       | Ant1    | Low     | 2412    | 4.21           | -50.32      | ≤-15.79    | PASS    |
|           |         | High    | 2462    | 5.06           | -55.44      | ≤-14.94    | PASS    |
| 11G       | Ant1    | Low     | 2412    | -2.42          | -47.28      | ≤-22.42    | PASS    |
|           |         | High    | 2462    | -2.01          | -52.99      | ≤-22.01    | PASS    |
| 11N20     | Ant1    | Low     | 2412    | -2.51          | -45.39      | ≤-22.51    | PASS    |
|           |         | High    | 2462    | -2.28          | -54.34      | ≤-22.28    | PASS    |
| 11N40     | Ant1    | Low     | 2422    | -5.22          | -46.22      | ≤-25.22    | PASS    |
|           |         | High    | 2452    | -4.89          | -49.52      | ≤-24.89    | PASS    |

## Test Graphs

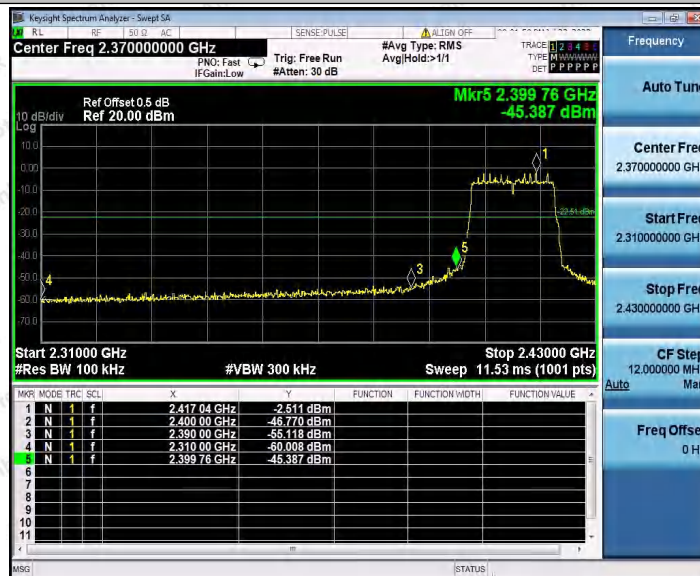




11G\_Ant1\_High\_2462



11N20\_Ant1\_Low\_2412



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11N20\_Ant1\_High\_2462



11N40\_Ant1\_Low\_2422



11N40\_Ant1\_High\_2452

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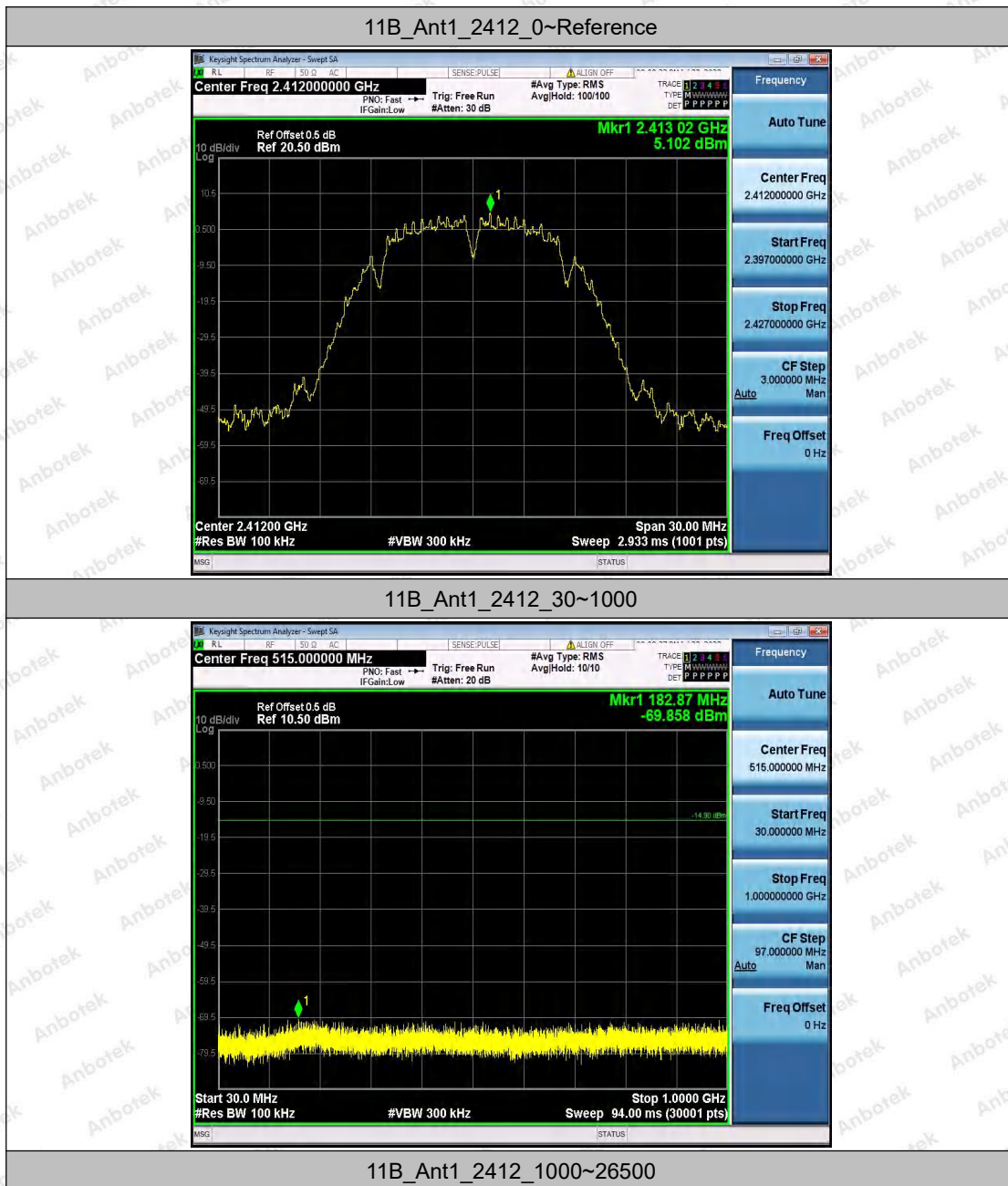


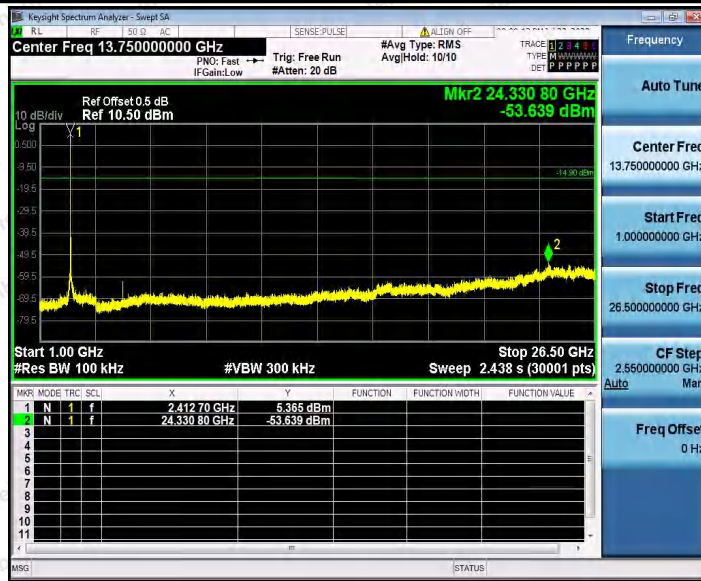
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Channel | Freq Range [Mhz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|------------------|-----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412    | Reference        | 5.10            | 5.10         | ---         | PASS    |
|           |         |         | 30~1000          | 5.10            | -69.86       | ≤-14.9      | PASS    |
|           |         |         | 1000~26500       | 5.10            | -53.64       | ≤-14.9      | PASS    |
|           |         | 2437    | Reference        | 5.20            | 5.20         | ---         | PASS    |
|           |         |         | 30~1000          | 5.20            | -69.84       | ≤-14.8      | PASS    |
|           |         |         | 1000~26500       | 5.20            | -53.81       | ≤-14.8      | PASS    |
|           |         | 2462    | Reference        | 5.07            | 5.07         | ---         | PASS    |
|           |         |         | 30~1000          | 5.07            | -69.01       | ≤-14.94     | PASS    |
|           |         |         | 1000~26500       | 5.07            | -53.9        | ≤-14.94     | PASS    |
| 11G       | Ant1    | 2412    | Reference        | -2.35           | -2.35        | ---         | PASS    |
|           |         |         | 30~1000          | -2.35           | -69.27       | ≤-22.35     | PASS    |
|           |         |         | 1000~26500       | -2.35           | -54.09       | ≤-22.35     | PASS    |
|           |         | 2437    | Reference        | -3.10           | -3.10        | ---         | PASS    |
|           |         |         | 30~1000          | -3.10           | -68.88       | ≤-23.1      | PASS    |
|           |         |         | 1000~26500       | -3.10           | -54.34       | ≤-23.1      | PASS    |
|           |         | 2462    | Reference        | -1.54           | -1.54        | ---         | PASS    |
|           |         |         | 30~1000          | -1.54           | -70.04       | ≤-21.54     | PASS    |
|           |         |         | 1000~26500       | -1.54           | -54.14       | ≤-21.54     | PASS    |
| 11N20     | Ant1    | 2412    | Reference        | -2.47           | -2.47        | ---         | PASS    |
|           |         |         | 30~1000          | -2.47           | -69.89       | ≤-22.47     | PASS    |
|           |         |         | 1000~26500       | -2.47           | -54.42       | ≤-22.47     | PASS    |
|           |         | 2437    | Reference        | -2.41           | -2.41        | ---         | PASS    |
|           |         |         | 30~1000          | -2.41           | -59.9        | ≤-22.41     | PASS    |
|           |         |         | 1000~26500       | -2.41           | -53.95       | ≤-22.41     | PASS    |
|           |         | 2462    | Reference        | -2.31           | -2.31        | ---         | PASS    |
|           |         |         | 30~1000          | -2.31           | -69.76       | ≤-22.31     | PASS    |
|           |         |         | 1000~26500       | -2.31           | -53.64       | ≤-22.31     | PASS    |
| 11N40     | Ant1    | 2422    | Reference        | -5.30           | -5.30        | ---         | PASS    |
|           |         |         | 30~1000          | -5.30           | -69.36       | ≤-25.3      | PASS    |
|           |         |         | 1000~26500       | -5.30           | -53.83       | ≤-25.3      | PASS    |
|           |         | 2437    | Reference        | -5.10           | -5.10        | ---         | PASS    |
|           |         |         | 30~1000          | -5.10           | -68.68       | ≤-25.1      | PASS    |
|           |         |         | 1000~26500       | -5.10           | -53.94       | ≤-25.1      | PASS    |
|           |         | 2452    | Reference        | -5.37           | -5.37        | ---         | PASS    |
|           |         |         | 30~1000          | -5.37           | -61.4        | ≤-25.37     | PASS    |
|           |         |         | 1000~26500       | -5.37           | -53.48       | ≤-25.37     | PASS    |

## Test Graphs

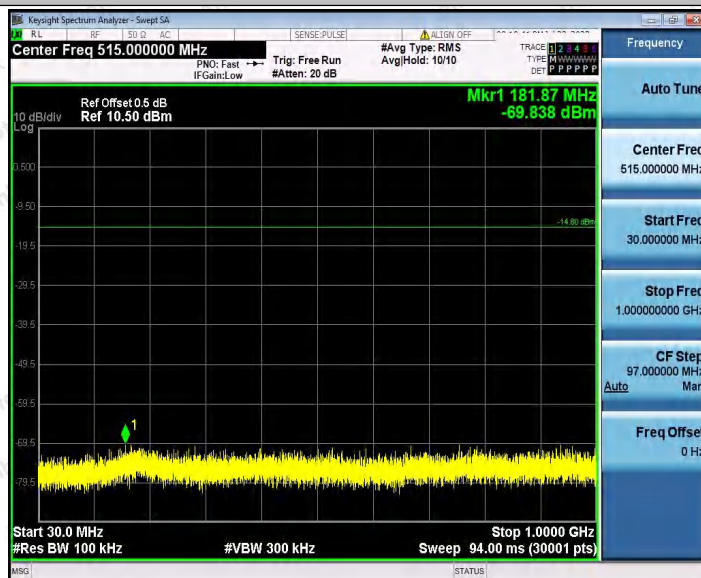




11B\_Ant1\_2437\_0~Reference



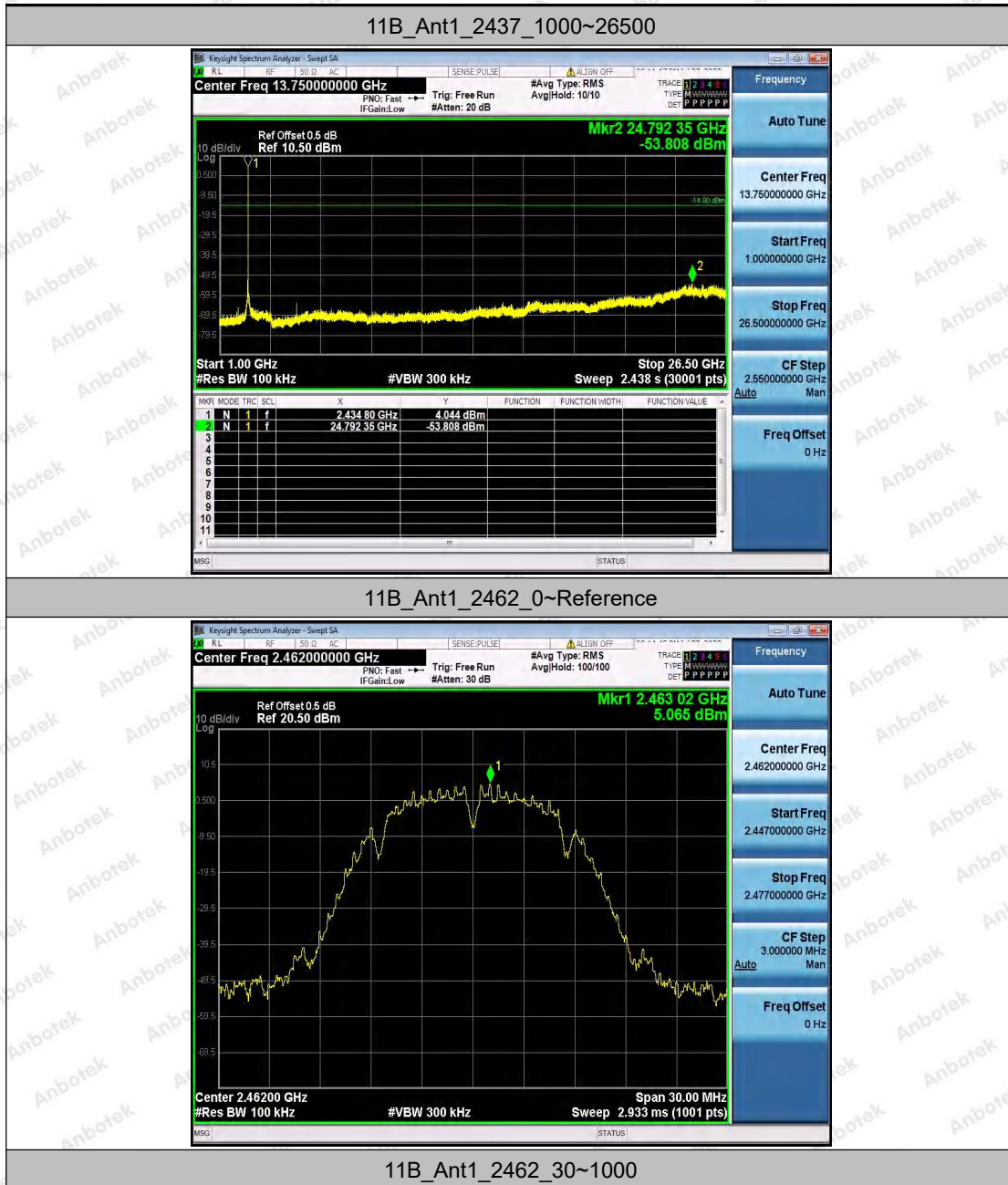
11B\_Ant1\_2437\_30~1000



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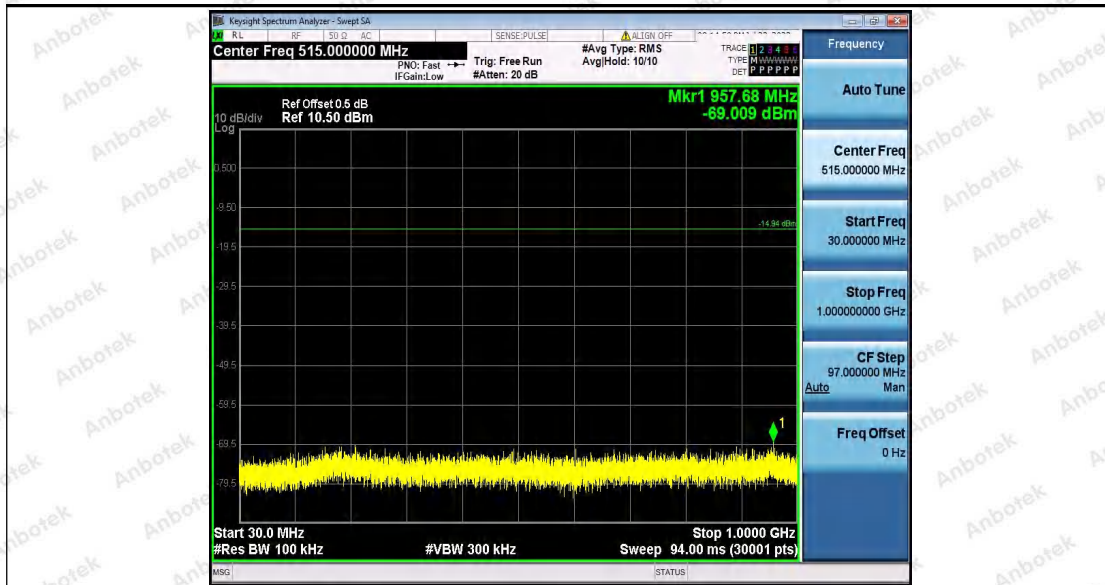
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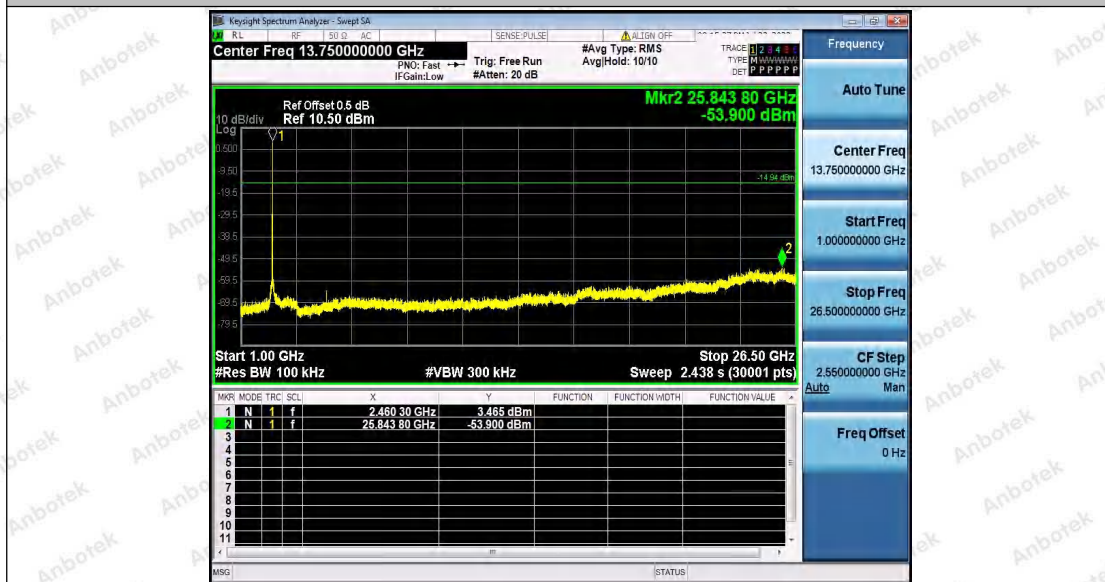
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11B\_Ant1\_2462\_1000~26500



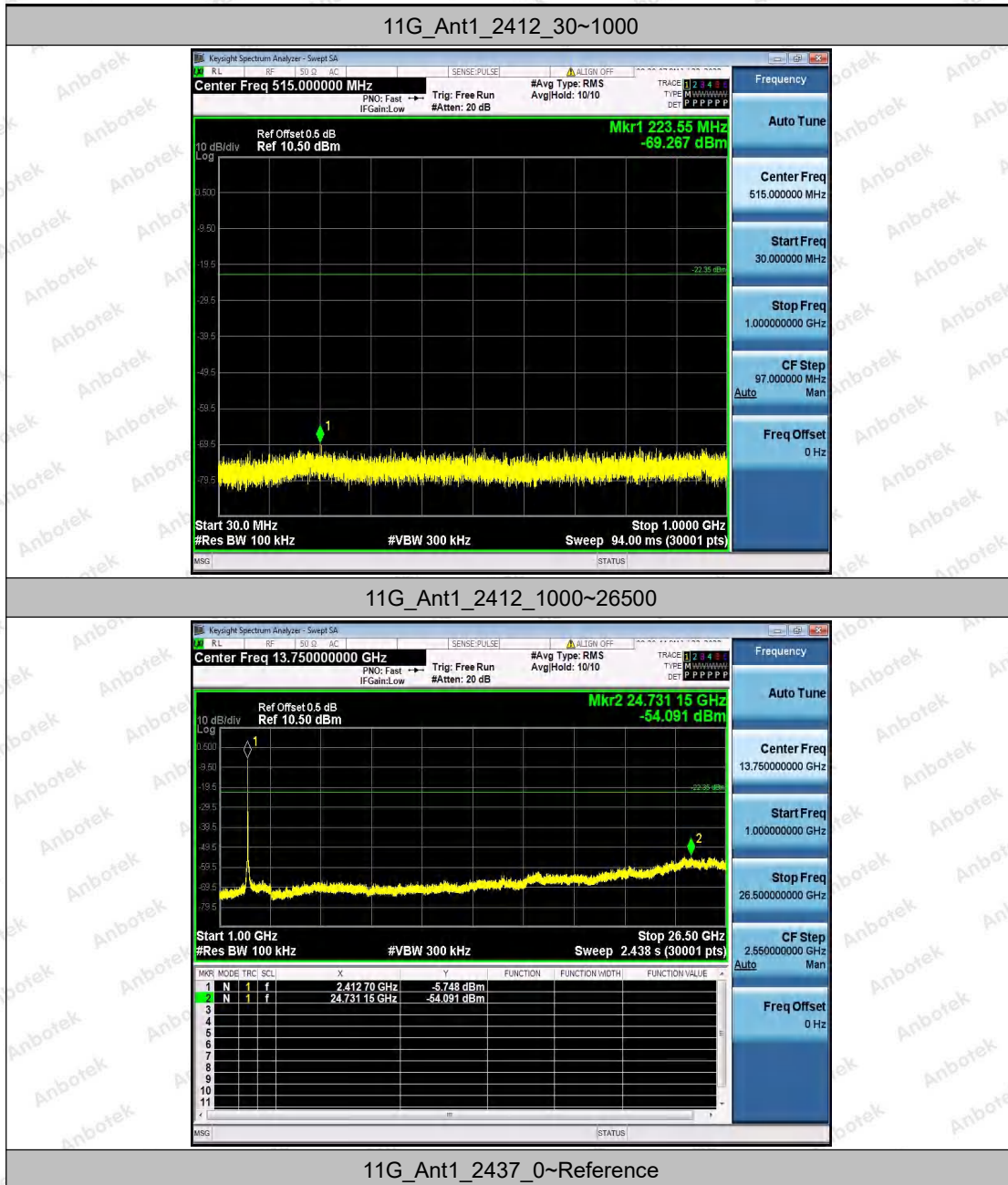
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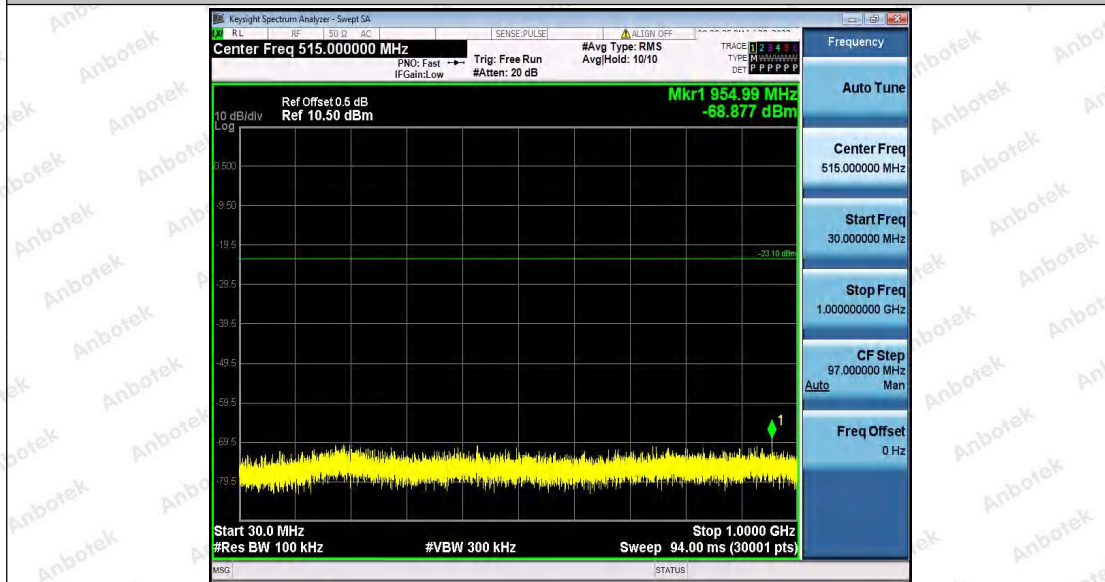
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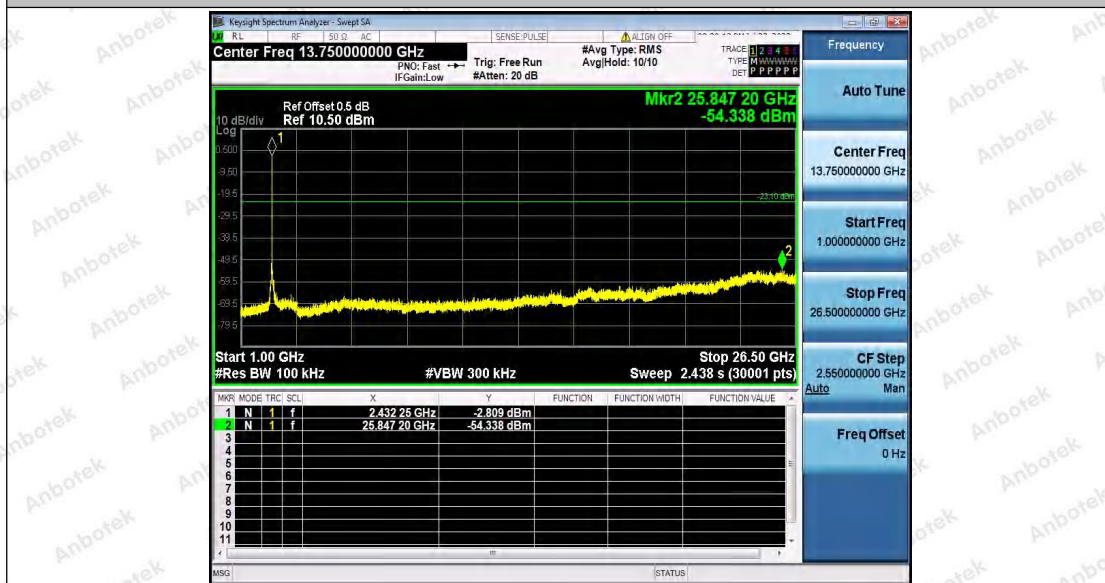




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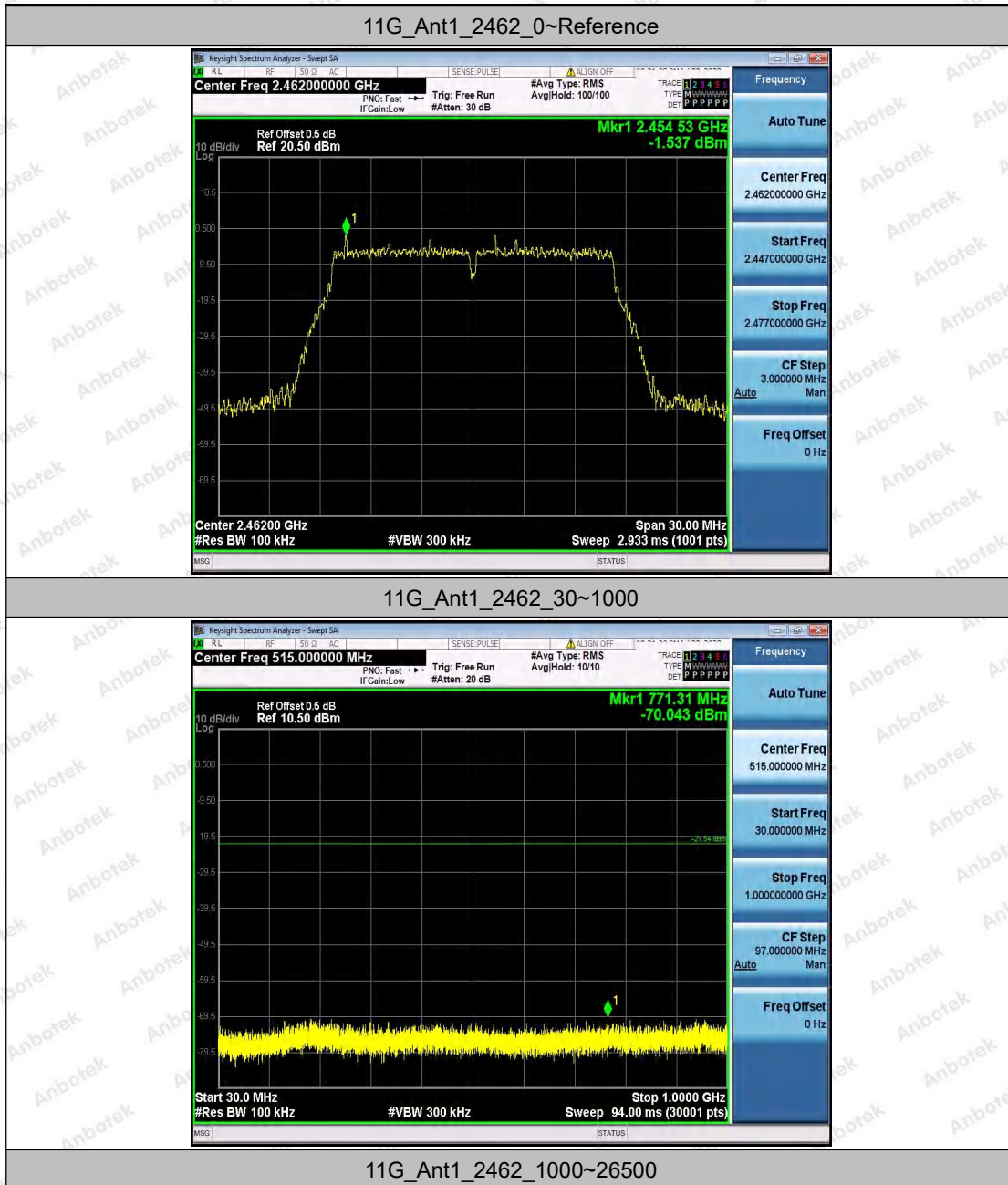
11G\_Ant1\_2437\_1000~26500



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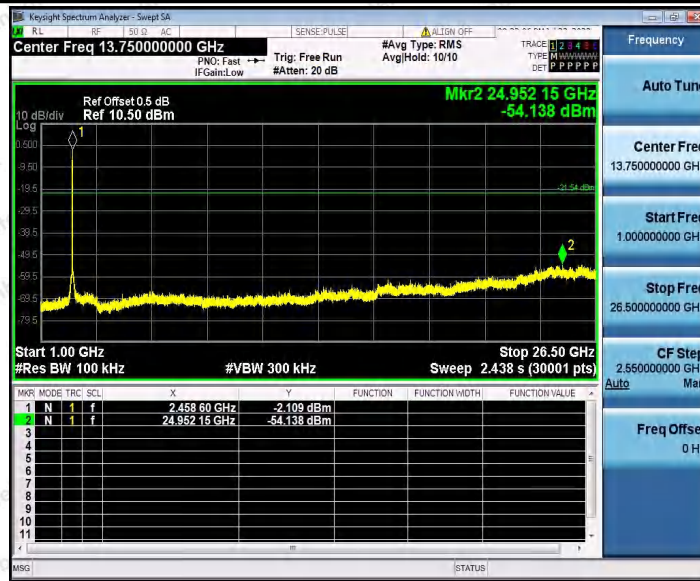


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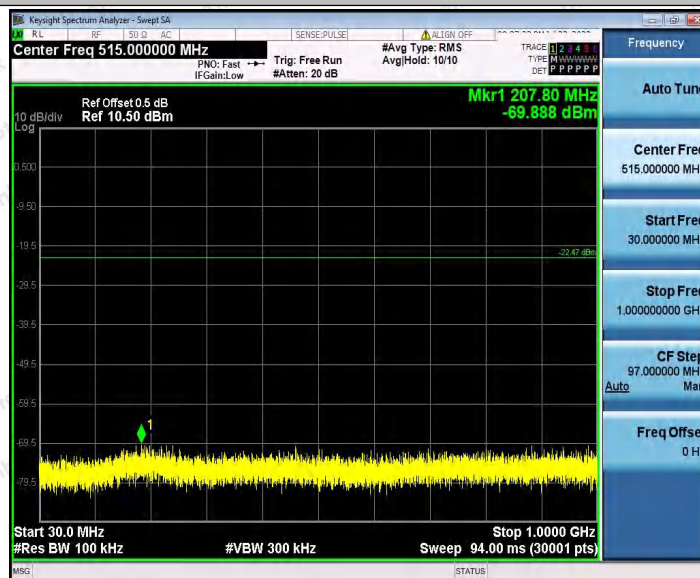




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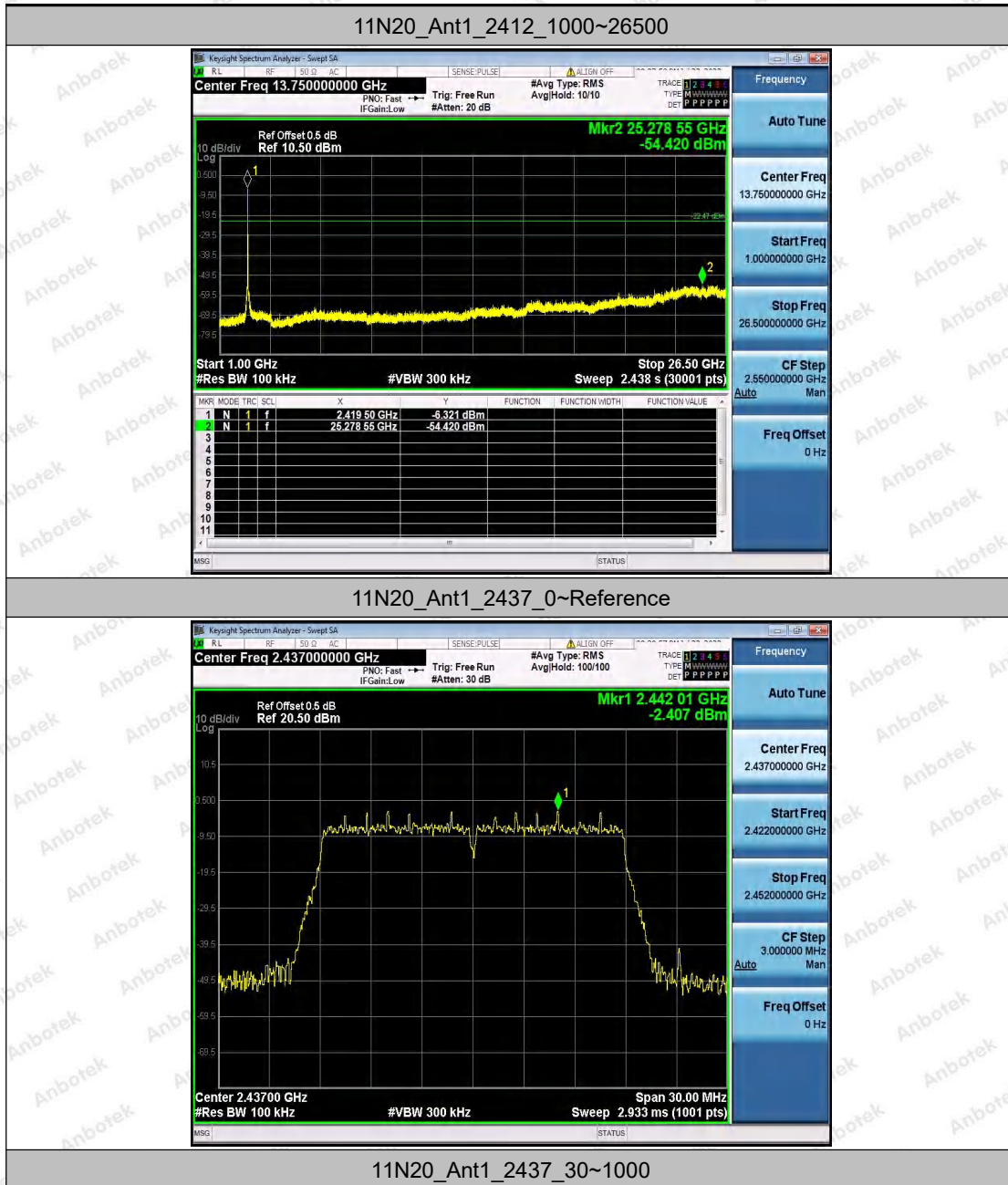
11N20\_Ant1\_2412\_30~1000



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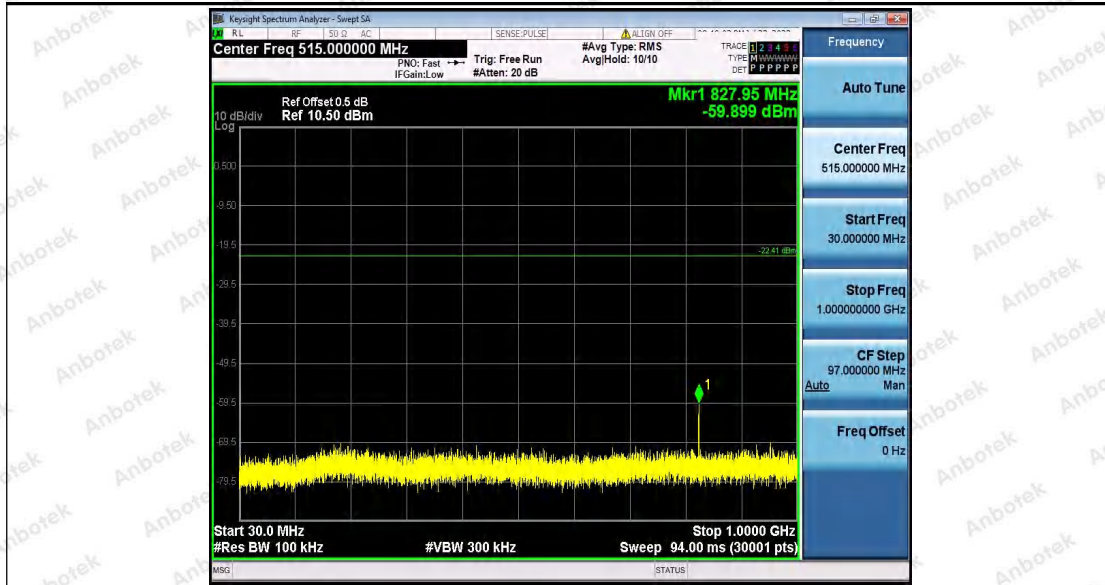
Hotline  
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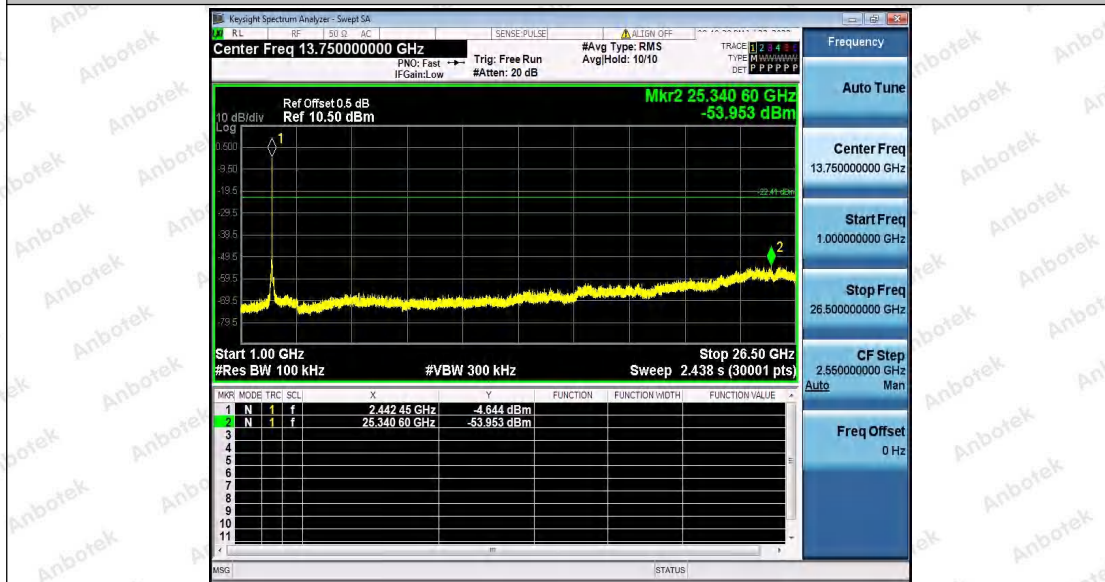
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11N20\_Ant1\_2437\_1000~26500



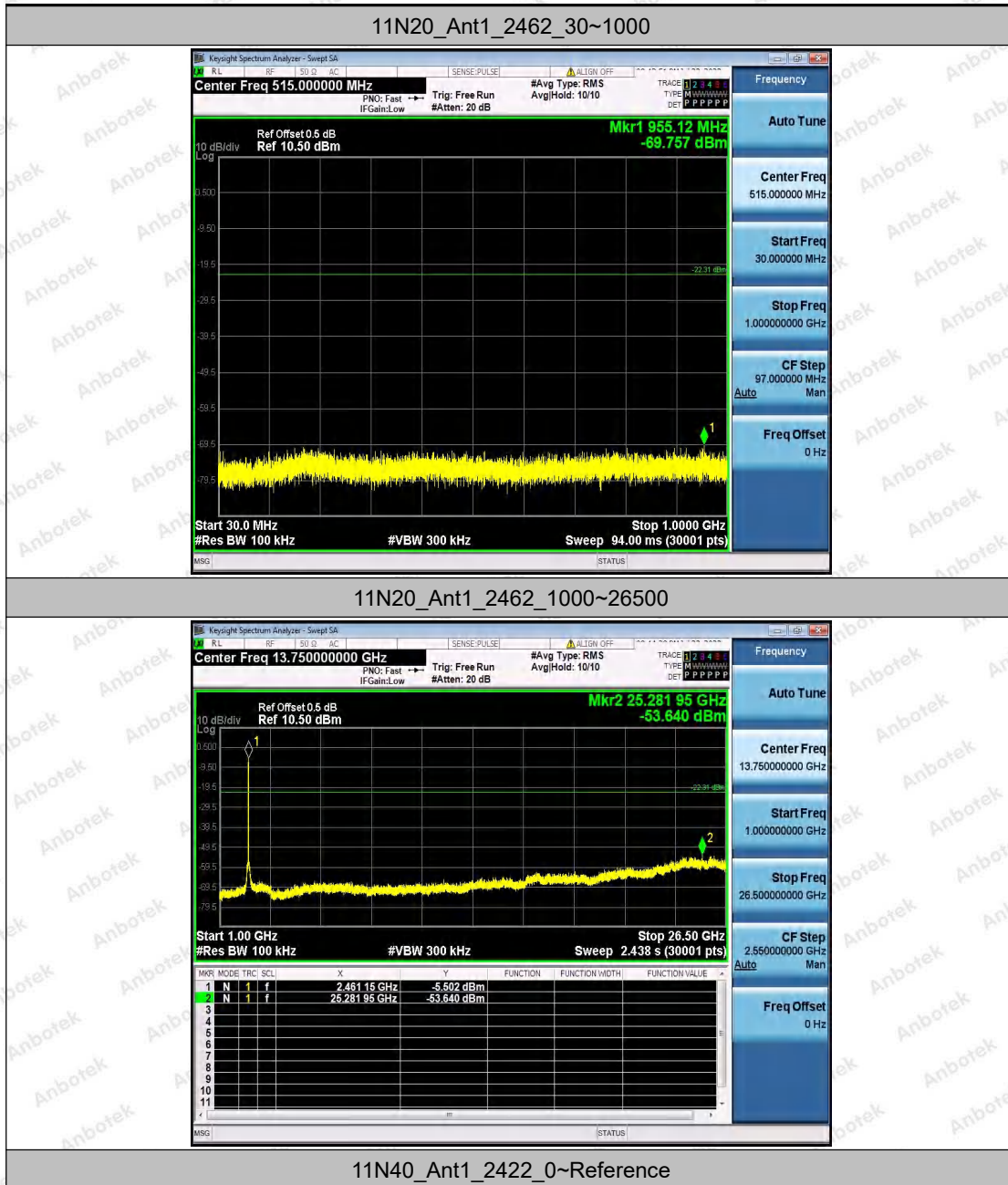
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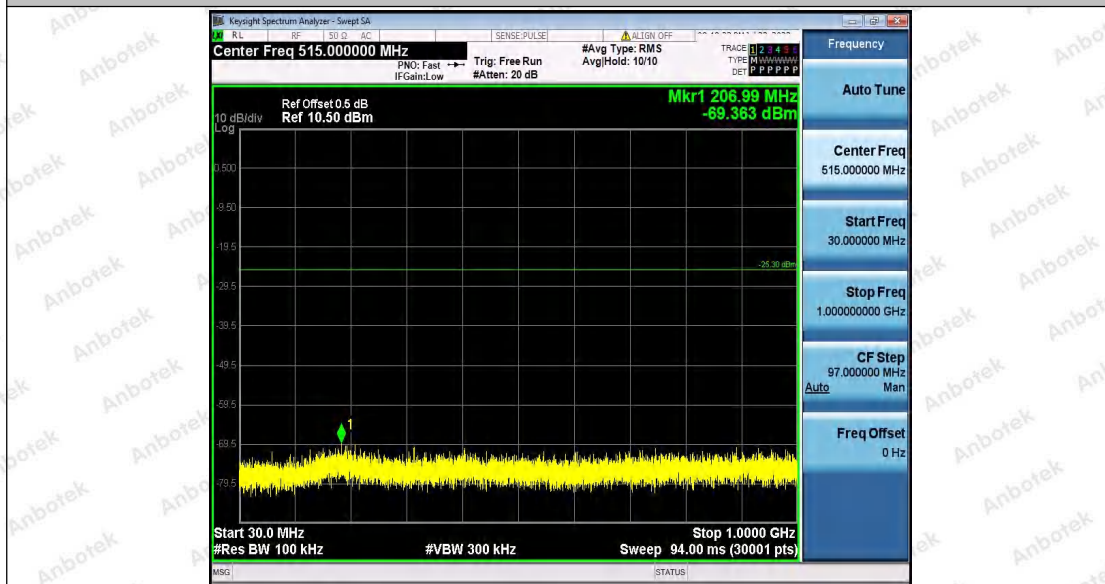
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11N40\_Ant1\_2422\_30~1000



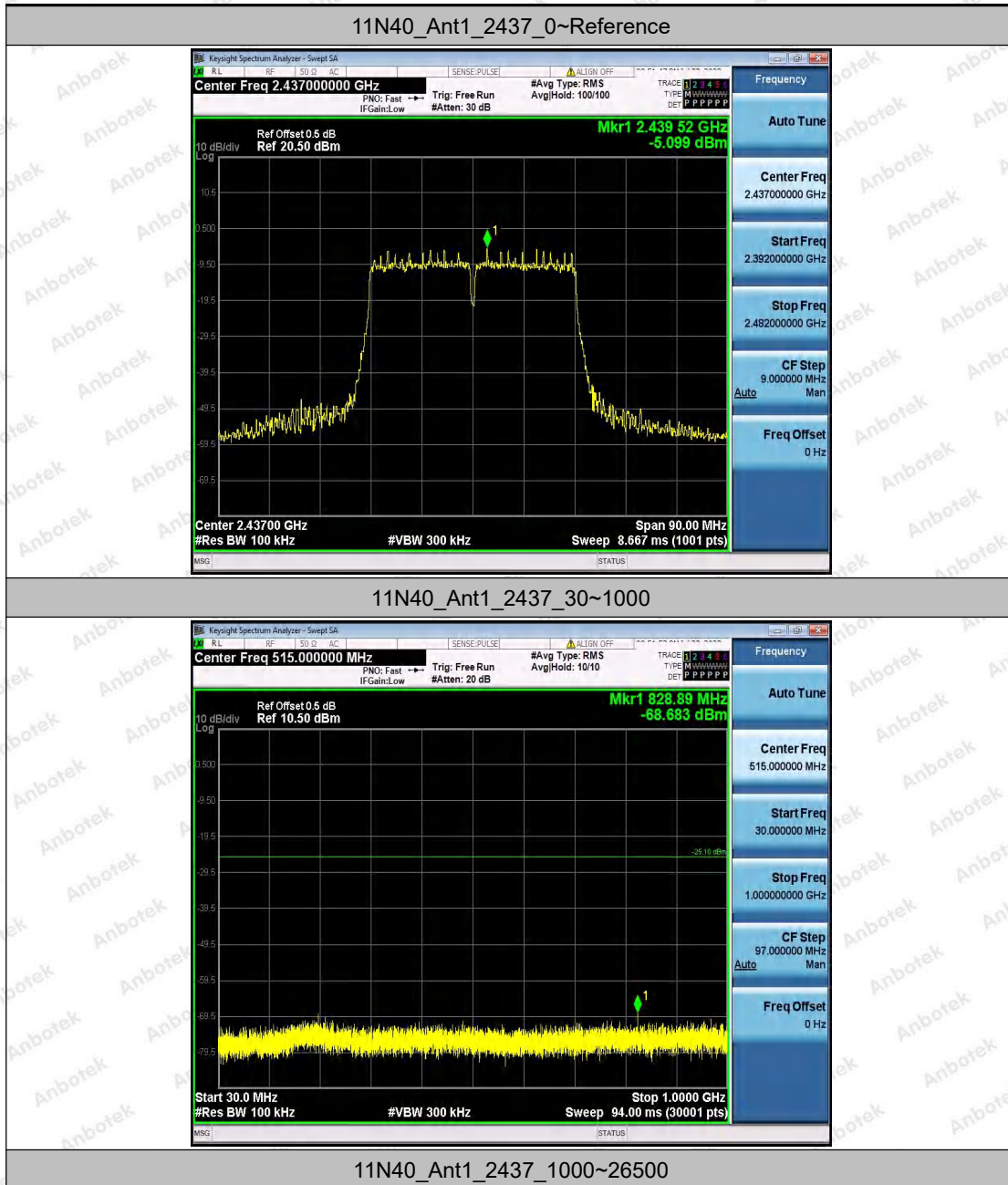
11N40\_Ant1\_2422\_1000~26500



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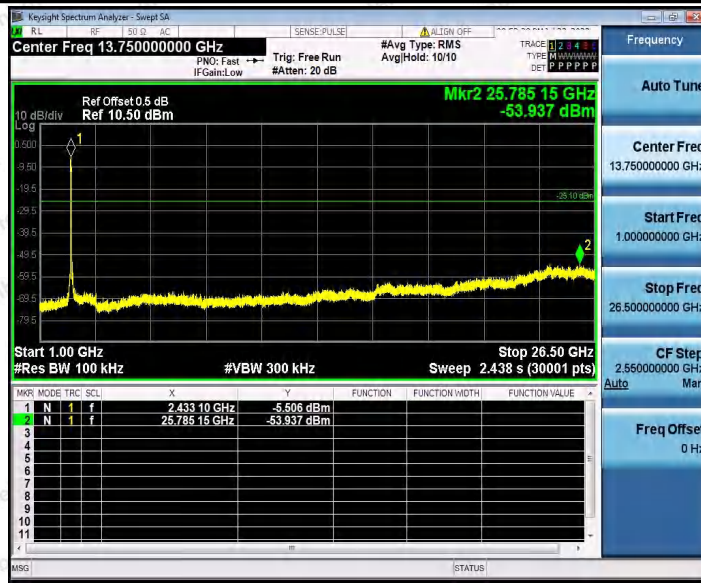
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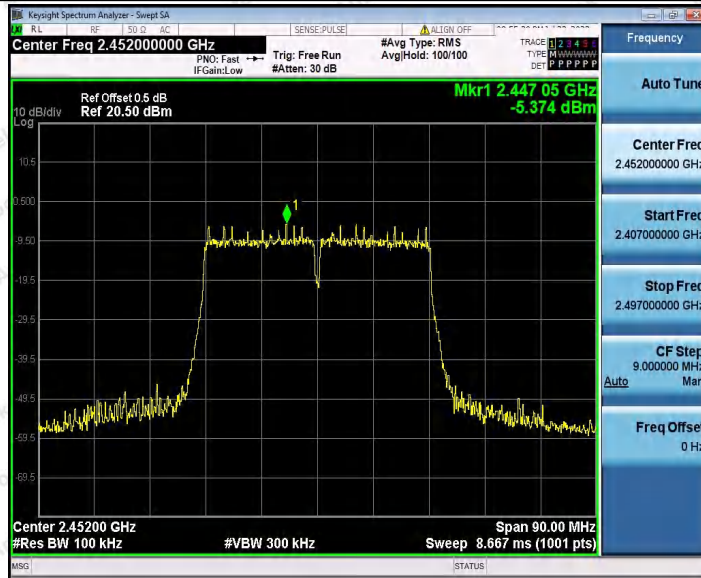
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 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

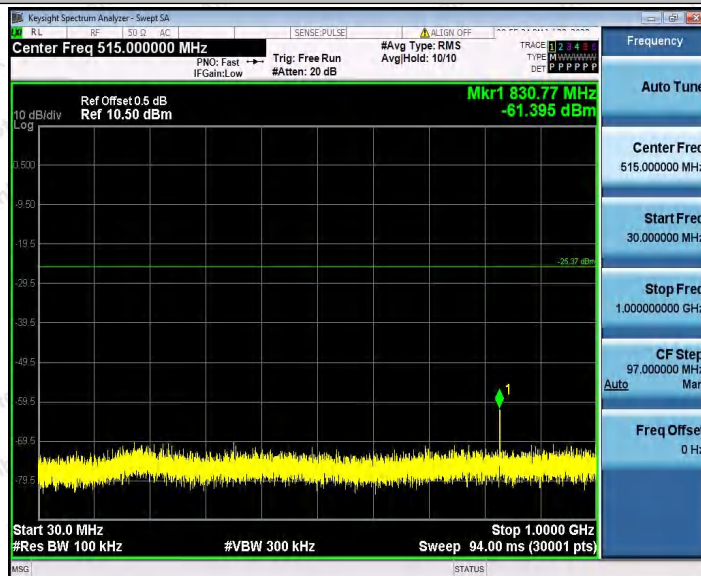
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11N40\_Ant1\_2452\_0~Reference



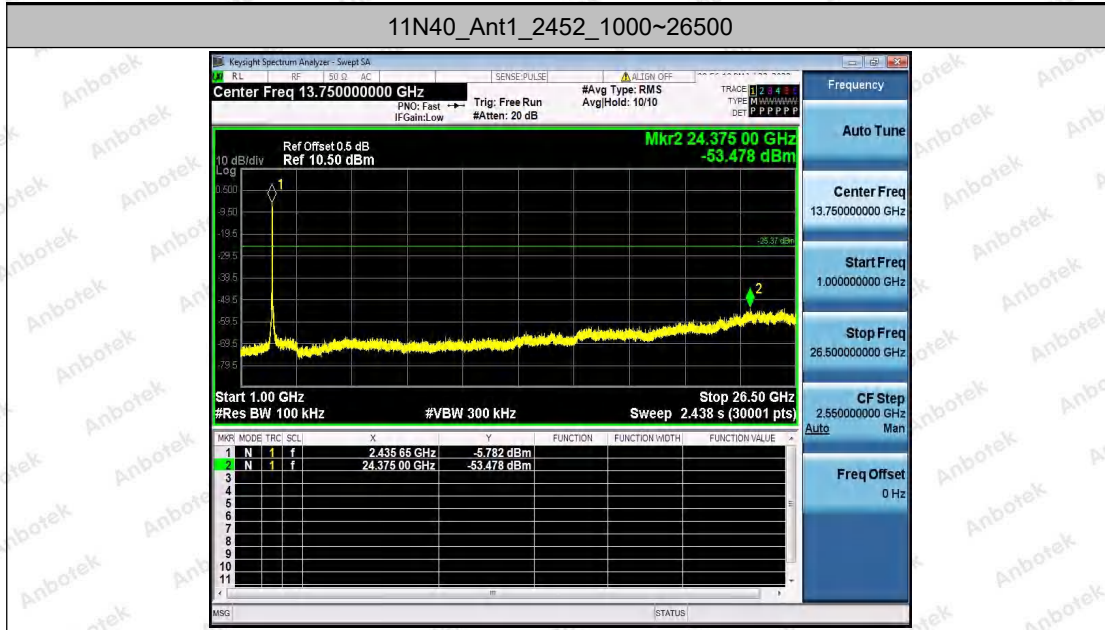
11N40\_Ant1\_2452\_30~1000



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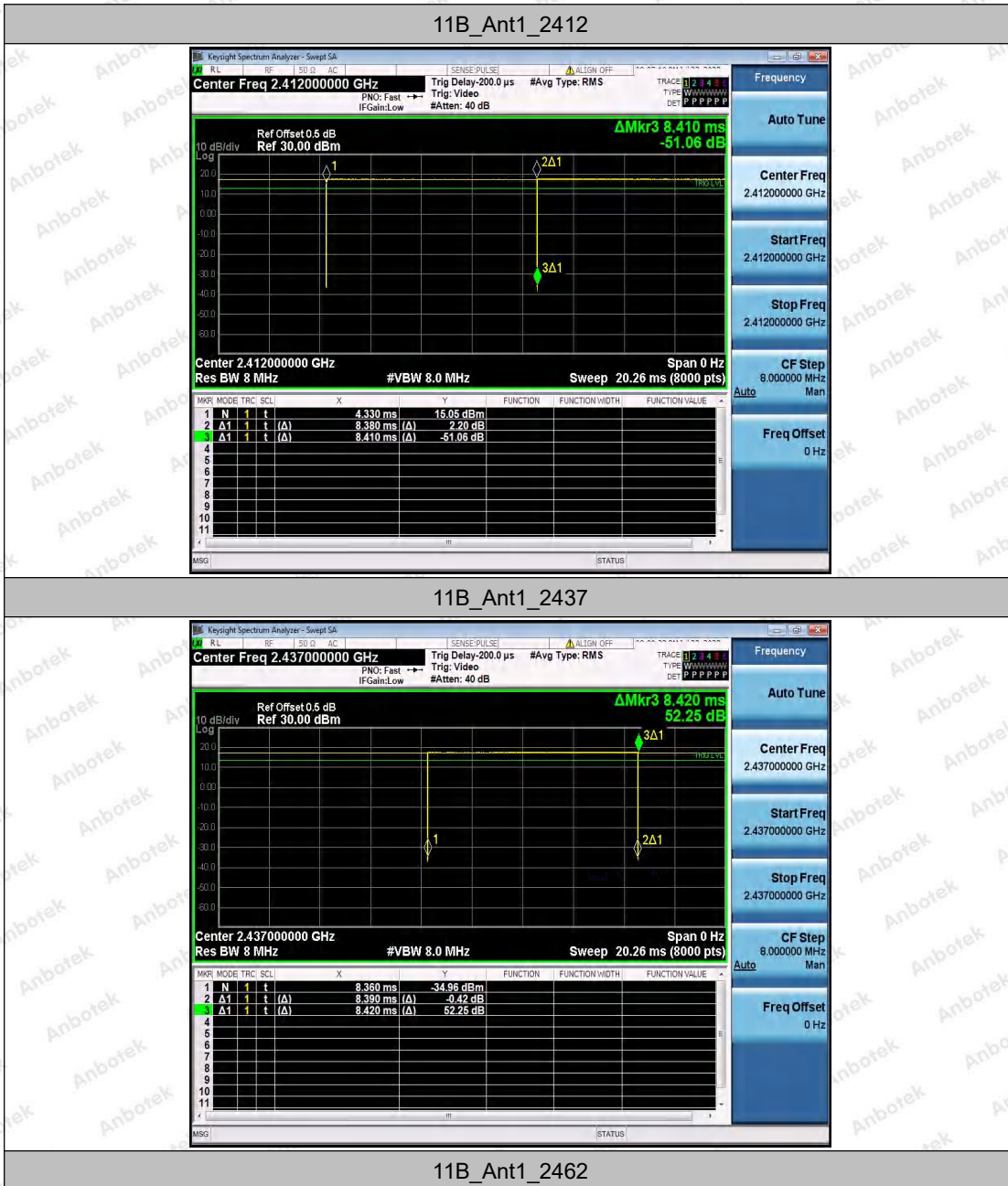


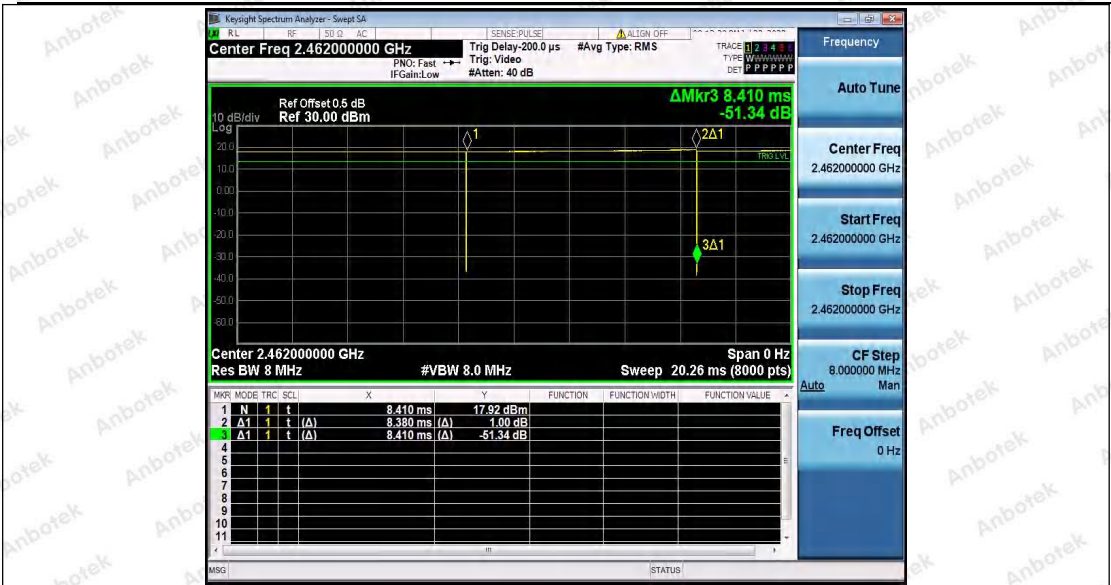
## Appendix G: Duty Cycle

### Test Result

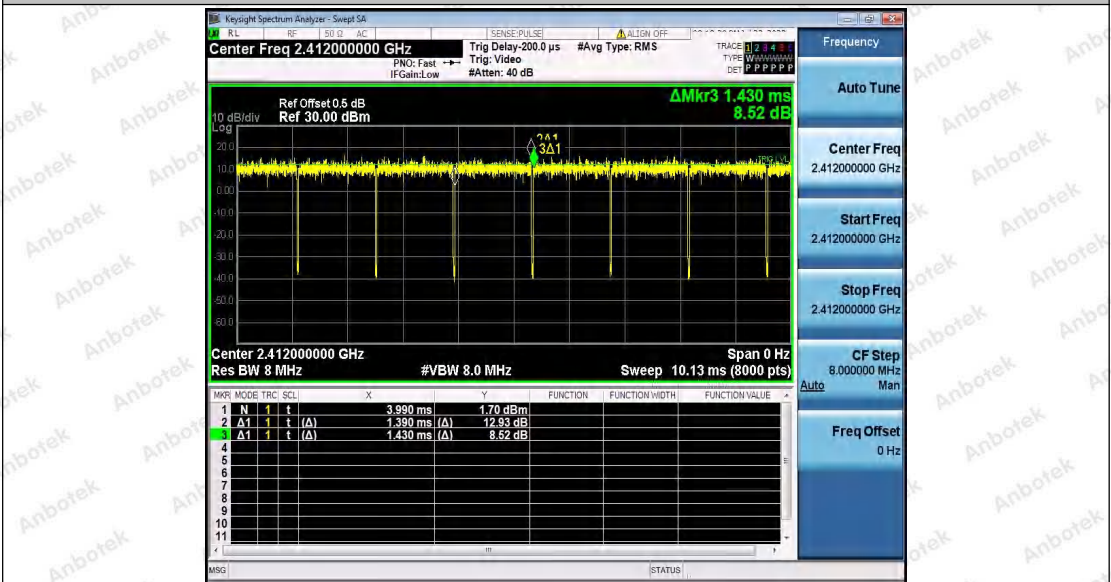
| Test Mode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|-----------|---------|---------|----------------------------|--------------------------|----------------|-------|---------|
| 11B       | Ant1    | 2412    | 8.38                       | 8.41                     | 99.64          | ---   | PASS    |
|           |         | 2437    | 8.39                       | 8.42                     | 99.64          | ---   | PASS    |
|           |         | 2462    | 8.38                       | 8.41                     | 99.64          | ---   | PASS    |
| 11G       | Ant1    | 2412    | 1.39                       | 1.43                     | 97.20          | ---   | PASS    |
|           |         | 2437    | 1.39                       | 1.43                     | 97.20          | ---   | PASS    |
|           |         | 2462    | 1.39                       | 1.44                     | 96.53          | ---   | PASS    |
| 11N20     | Ant1    | 2412    | 1.30                       | 1.34                     | 97.01          | ---   | PASS    |
|           |         | 2437    | 1.30                       | 1.33                     | 97.74          | ---   | PASS    |
|           |         | 2462    | 1.30                       | 1.34                     | 97.01          | ---   | PASS    |
| 11N40     | Ant1    | 2422    | 0.65                       | 0.68                     | 95.59          | ---   | PASS    |
|           |         | 2437    | 0.65                       | 0.68                     | 95.59          | ---   | PASS    |
|           |         | 2452    | 0.65                       | 0.68                     | 95.59          | ---   | PASS    |

## Test Graphs

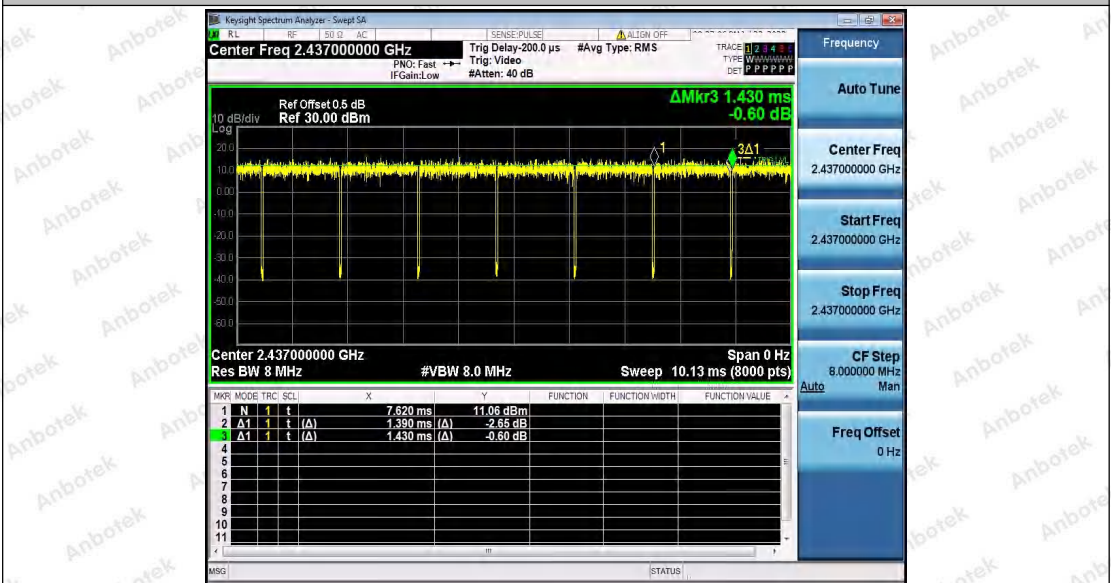




11G\_Ant1\_2412



11G\_Ant1\_2437

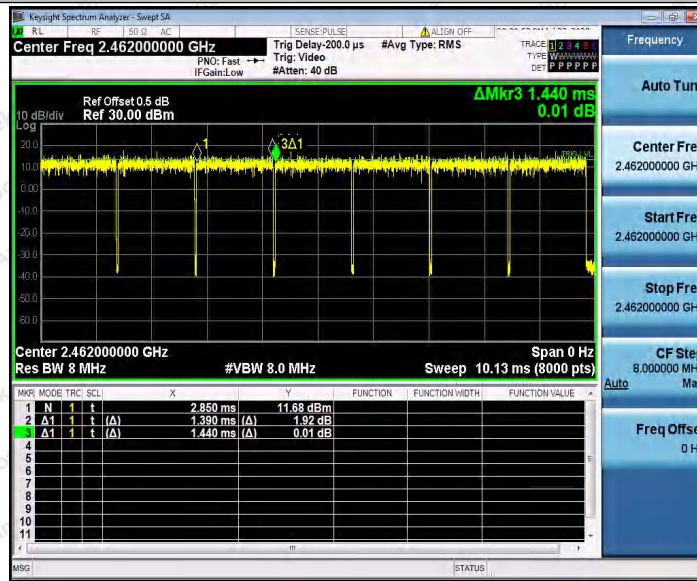


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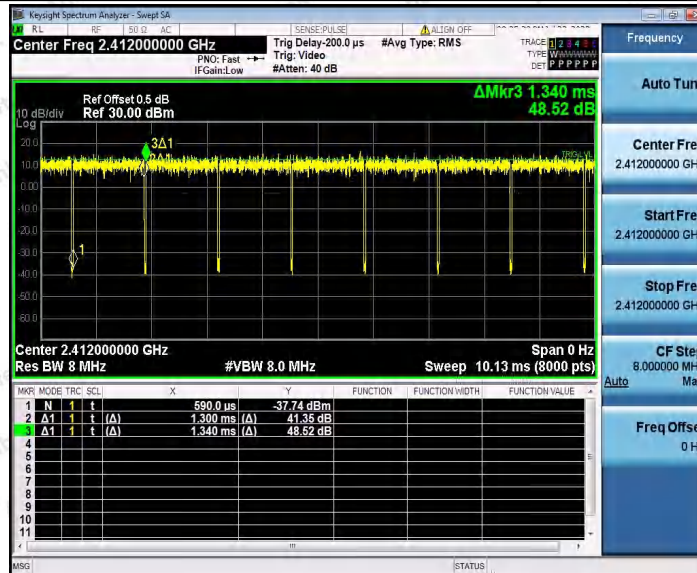
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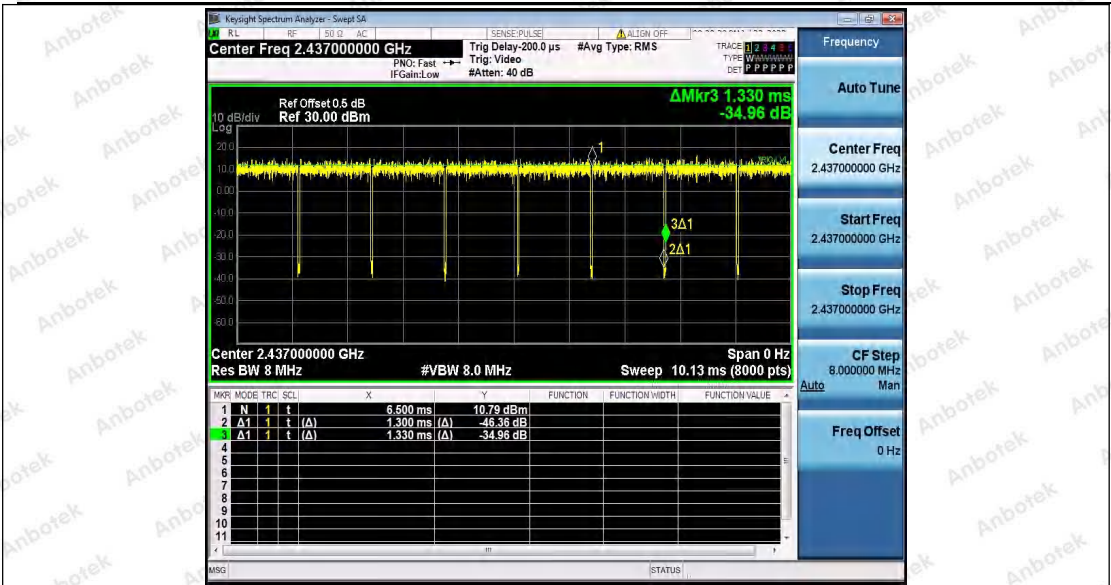
11G\_Ant1\_2462



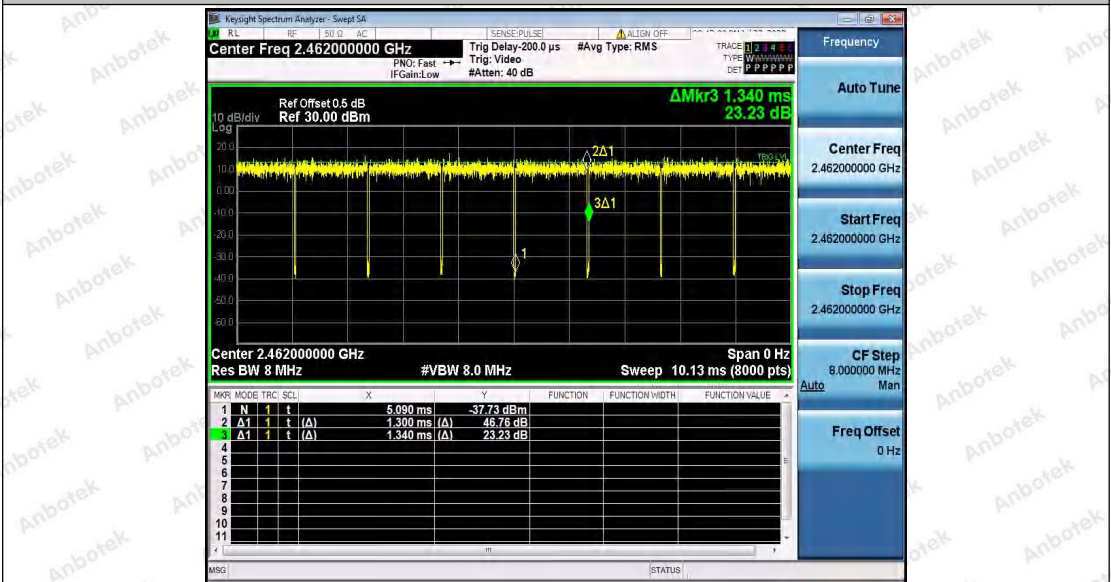
11N20\_Ant1\_2412



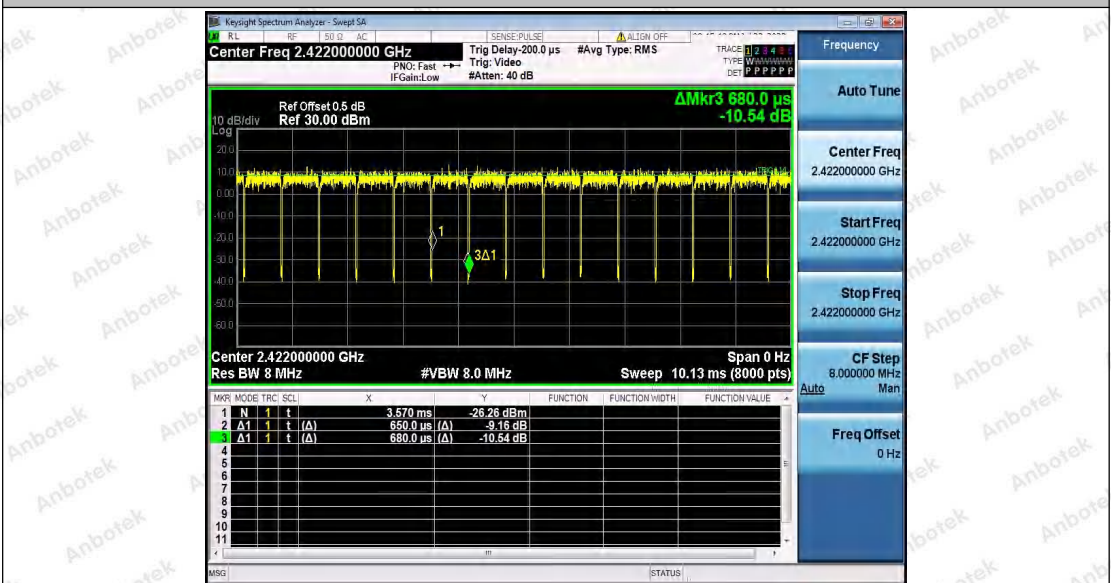
11N20\_Ant1\_2437



11N20\_Ant1\_2462



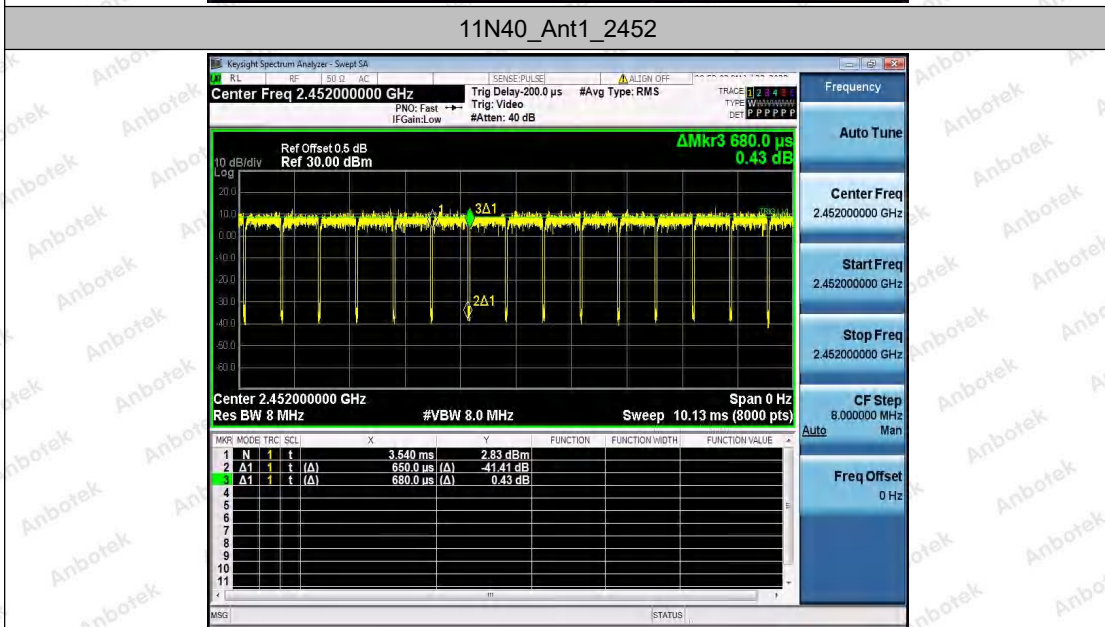
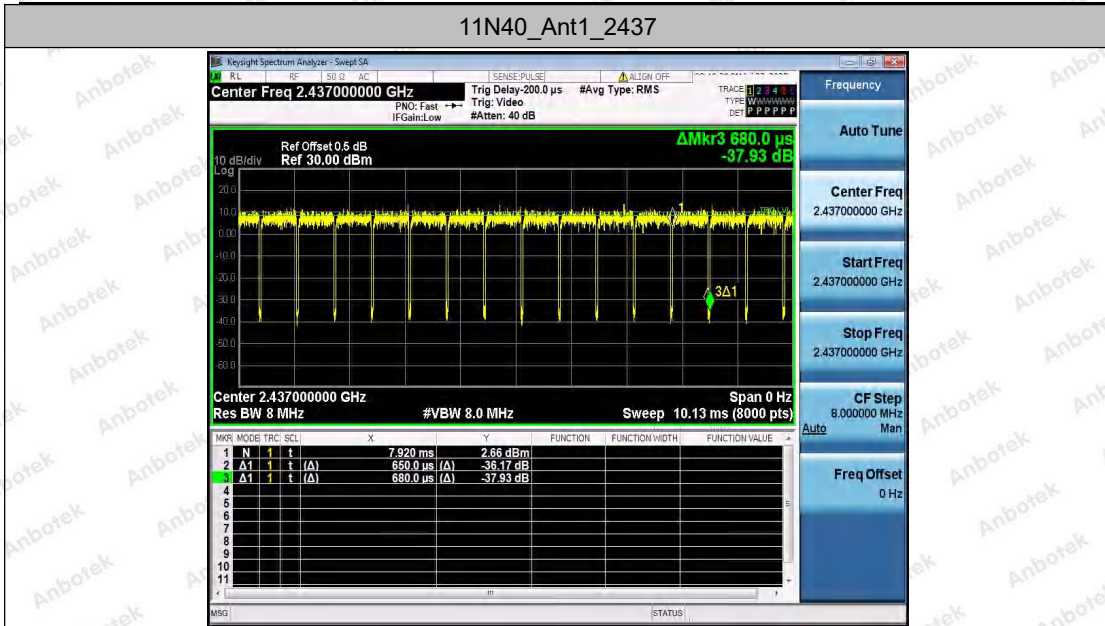
11N40\_Ant1\_2422



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