

Appendix Test Data

|                  |                    |                    |                    |
|------------------|--------------------|--------------------|--------------------|
| Report No.:      | 1819C40089712501   | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2024.11.27         | Finish Test Date:  | 2024.11.29         |
| Test Engineer:   | <i>Joker Huang</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 22.8°C             | Relative Humidity: | 50%                |
| Pressure:        | 101kPa             |                    |                    |

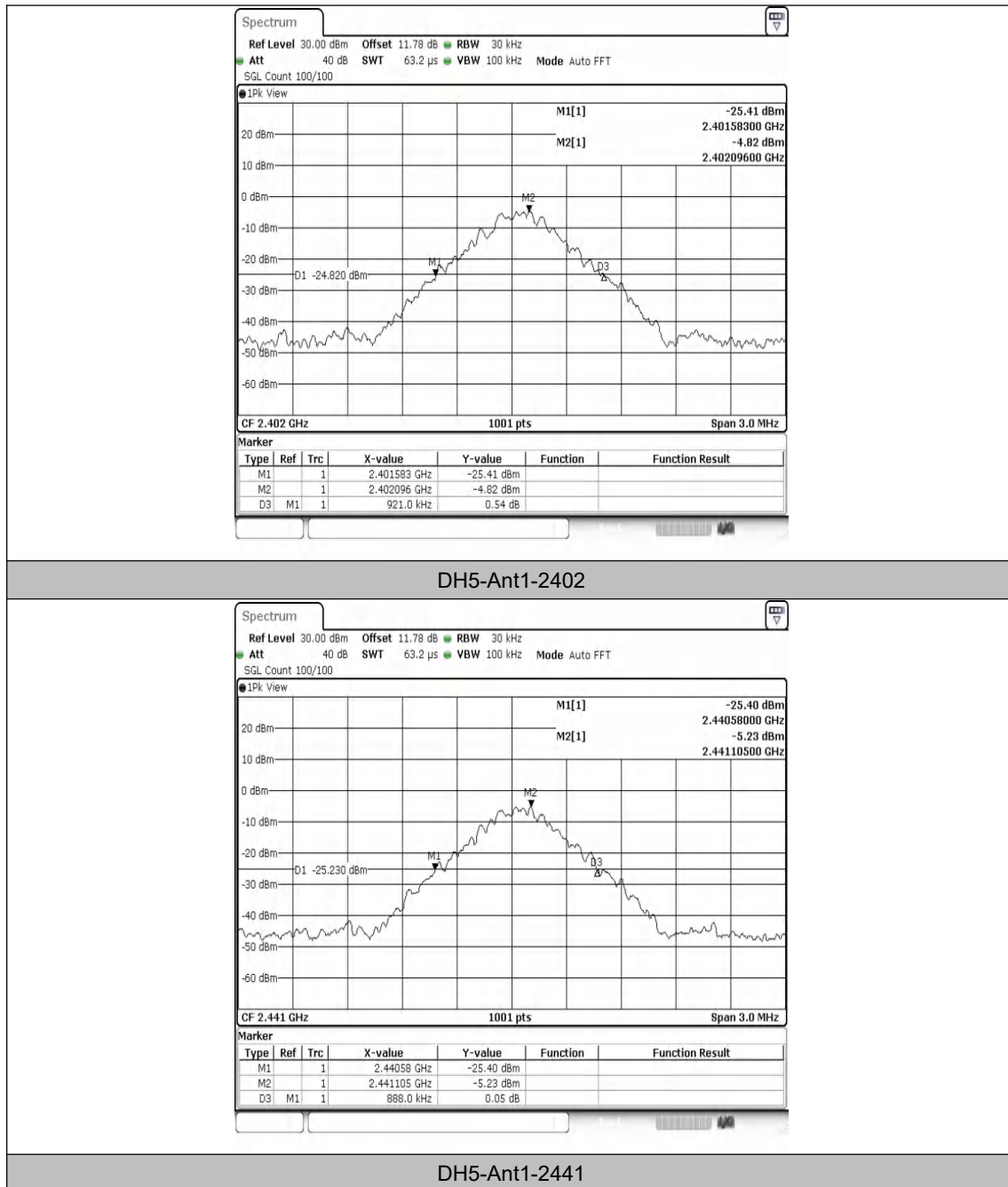
Appendix A: 20dB Bandwidth

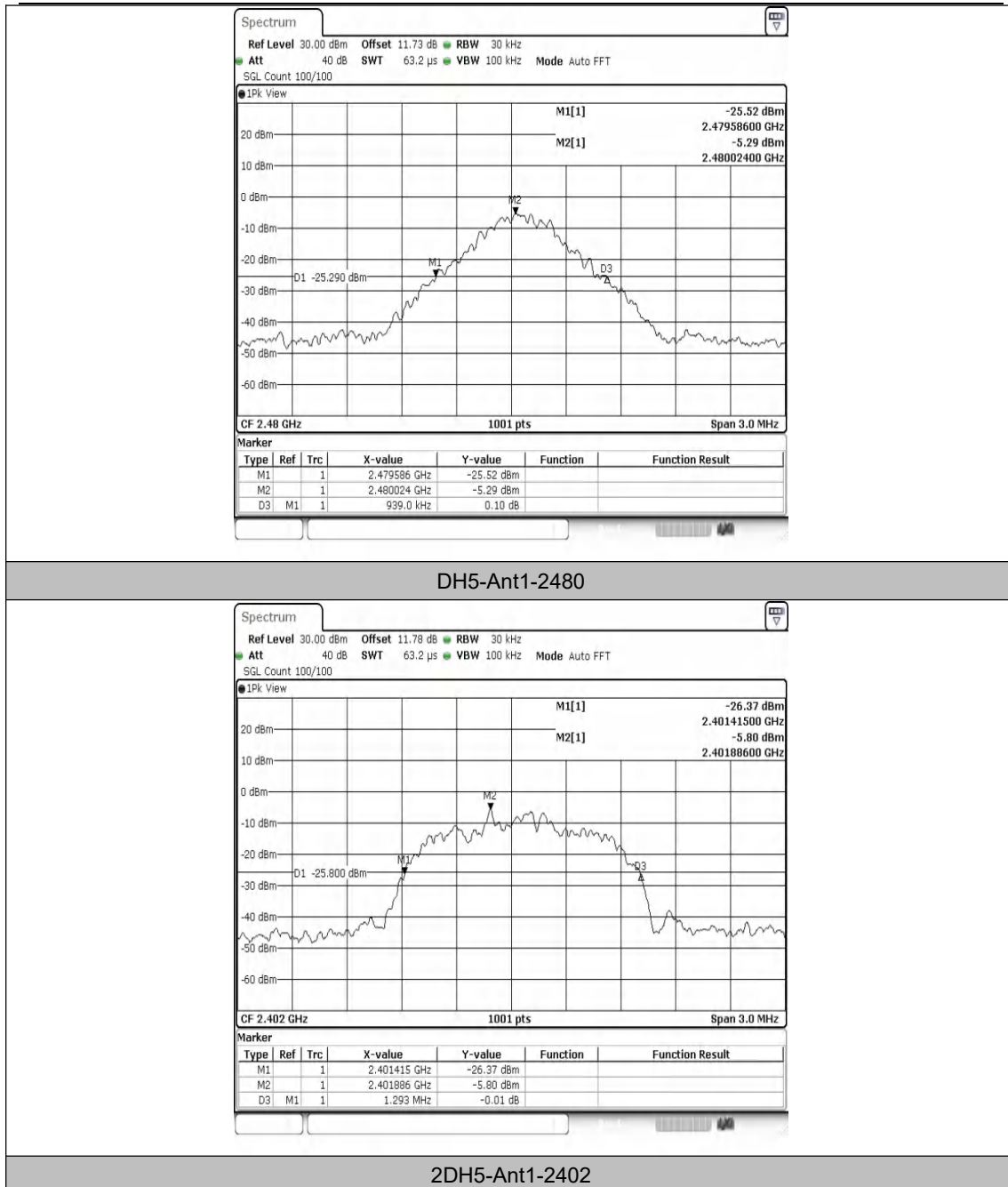
Test Result

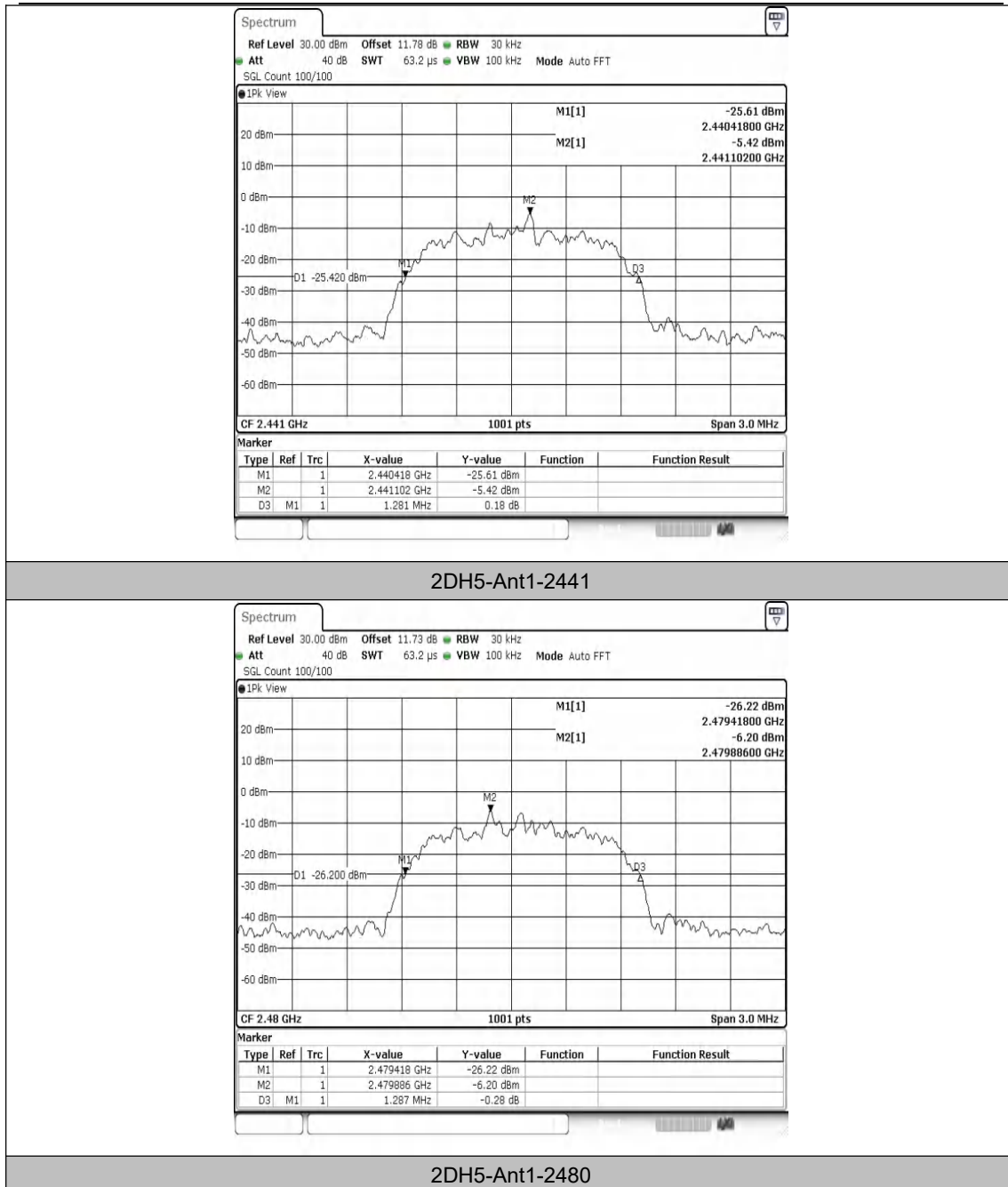
| Test Mode | Antenna | Frequency [MHz] | 20db EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|-----------------|---------------|---------|---------|------------|---------|
| DH5       | Ant1    | 2402            | 0.92          | 2401.58 | 2402.50 | ---        | ---     |
| DH5       | Ant1    | 2441            | 0.89          | 2440.58 | 2441.47 | ---        | ---     |
| DH5       | Ant1    | 2480            | 0.94          | 2479.59 | 2480.53 | ---        | ---     |
| 2DH5      | Ant1    | 2402            | 1.29          | 2401.42 | 2402.71 | ---        | ---     |
| 2DH5      | Ant1    | 2441            | 1.28          | 2440.42 | 2441.70 | ---        | ---     |
| 2DH5      | Ant1    | 2480            | 1.29          | 2479.42 | 2480.71 | ---        | ---     |
| 3DH5      | Ant1    | 2402            | 1.28          | 2401.41 | 2402.68 | ---        | ---     |
| 3DH5      | Ant1    | 2441            | 1.30          | 2440.39 | 2441.70 | ---        | ---     |
| 3DH5      | Ant1    | 2480            | 1.29          | 2479.39 | 2480.68 | ---        | ---     |

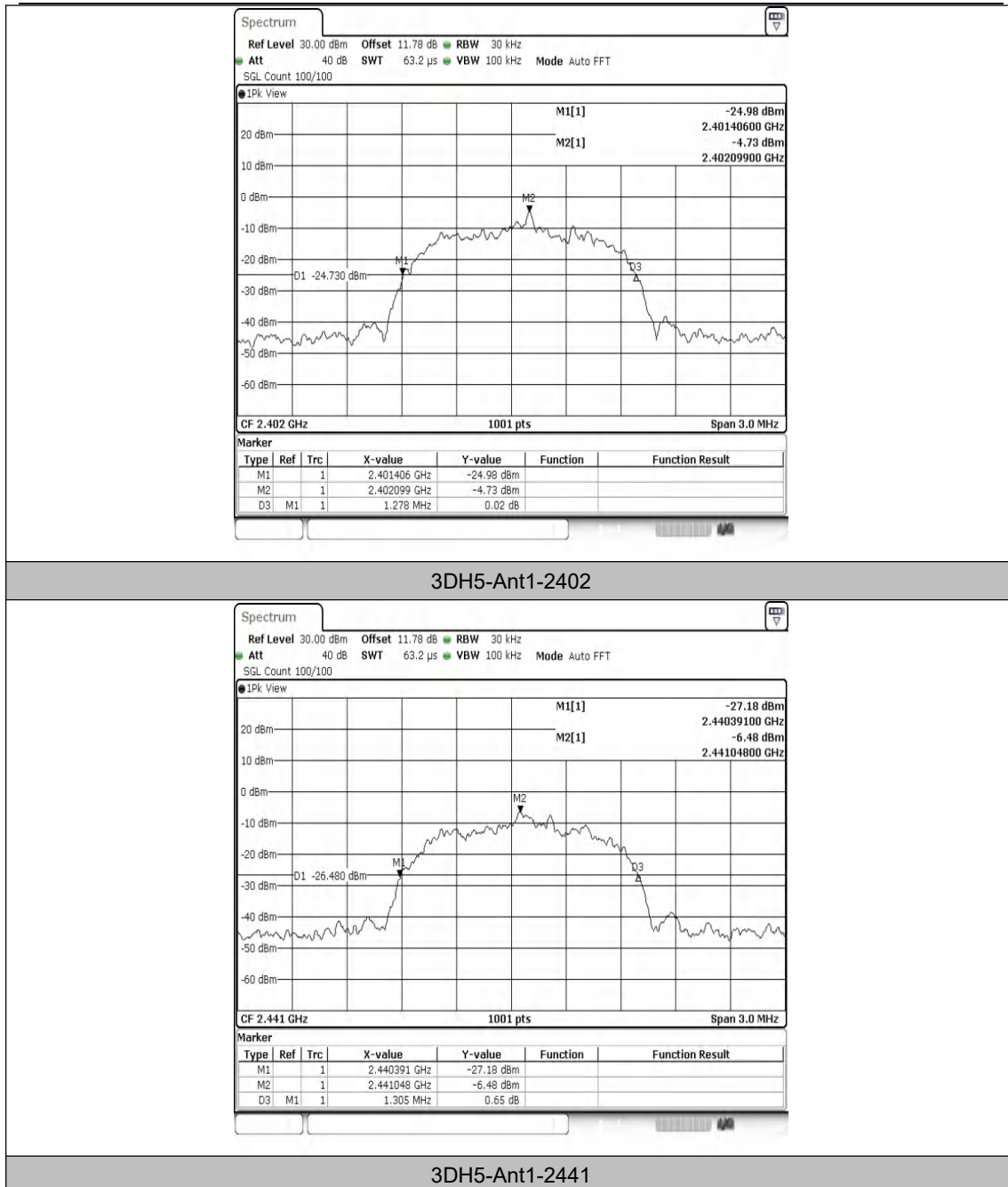


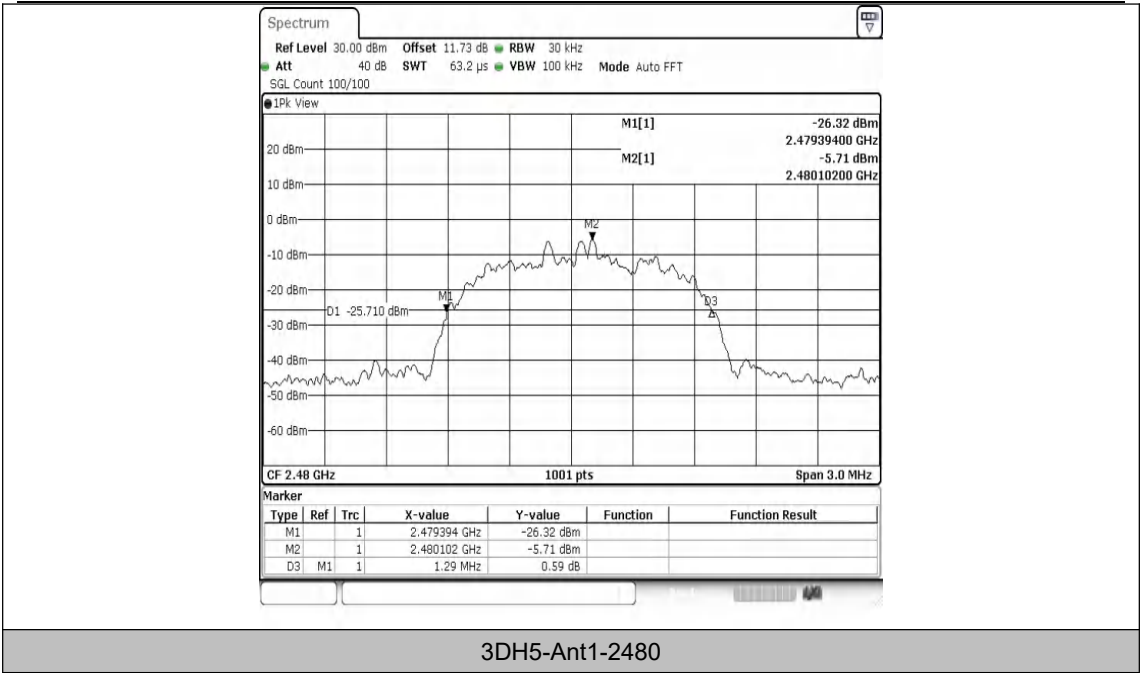
## Test Graphs











## Appendix B: 99% Occupied Bandwidth

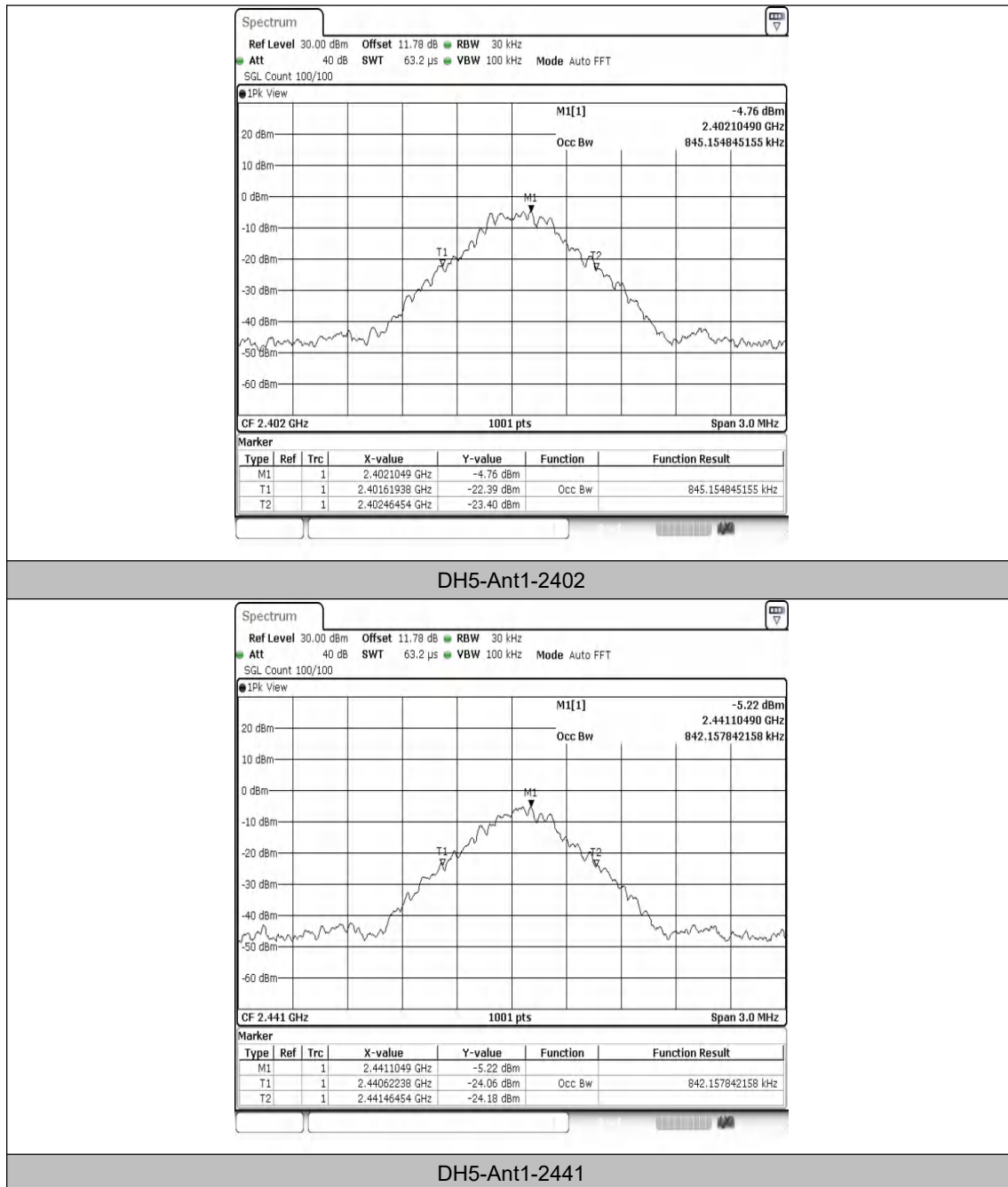
### Test Result

| Test Mode | Antenna | Frequency [MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|-----------------|-----------|-----------|-----------|------------|---------|
| DH5       | Ant1    | 2402            | 0.845     | 2401.6194 | 2402.4645 | ---        | ---     |
| DH5       | Ant1    | 2441            | 0.842     | 2440.6224 | 2441.4645 | ---        | ---     |
| DH5       | Ant1    | 2480            | 0.851     | 2479.6194 | 2480.4705 | ---        | ---     |
| 2DH5      | Ant1    | 2402            | 1.157     | 2401.4665 | 2402.6234 | ---        | ---     |
| 2DH5      | Ant1    | 2441            | 1.172     | 2440.4605 | 2441.6324 | ---        | ---     |
| 2DH5      | Ant1    | 2480            | 1.175     | 2479.4575 | 2480.6324 | ---        | ---     |
| 3DH5      | Ant1    | 2402            | 1.187     | 2401.4575 | 2402.6444 | ---        | ---     |
| 3DH5      | Ant1    | 2441            | 1.169     | 2440.4605 | 2441.6294 | ---        | ---     |
| 3DH5      | Ant1    | 2480            | 1.181     | 2479.4605 | 2480.6414 | ---        | ---     |

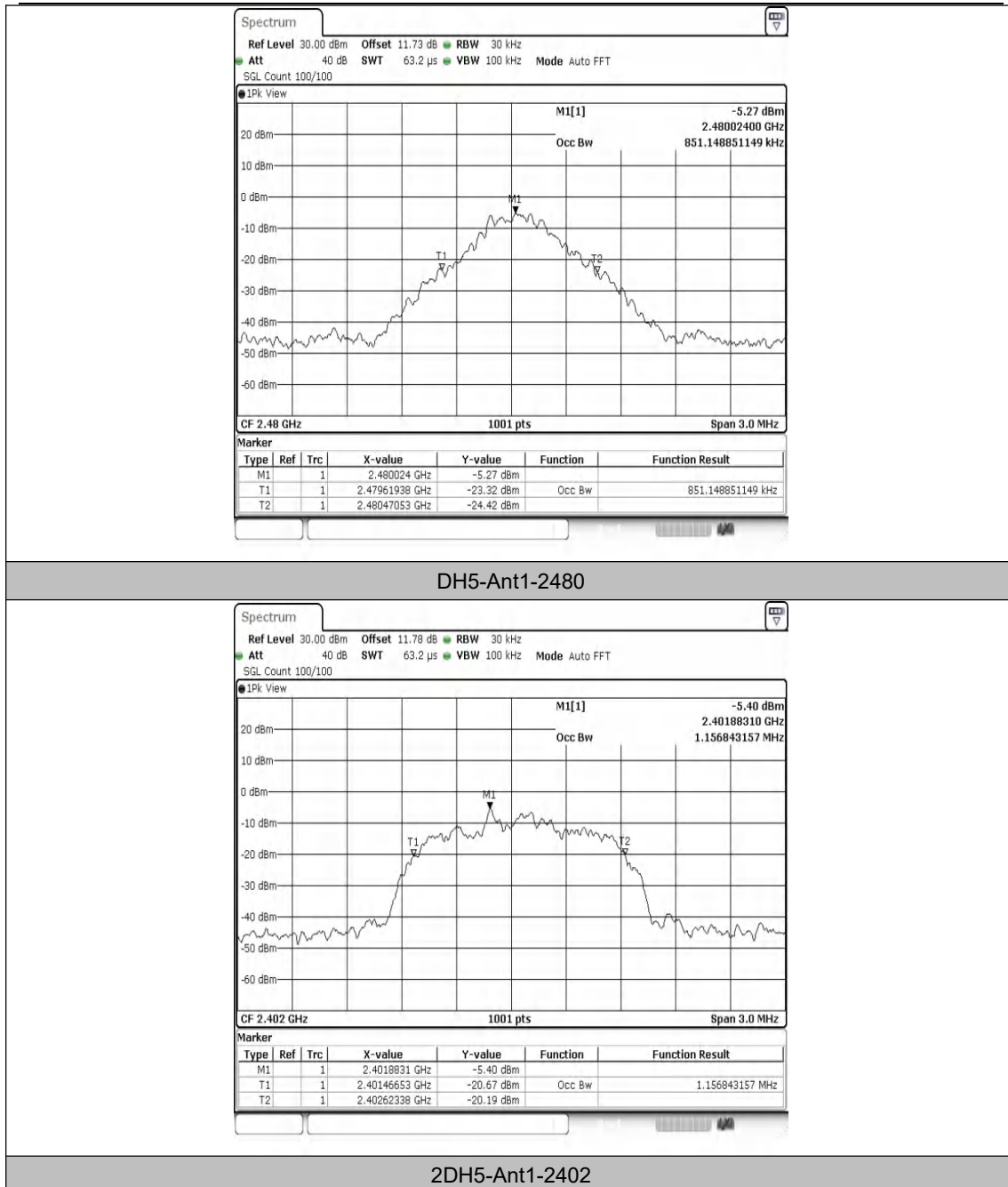


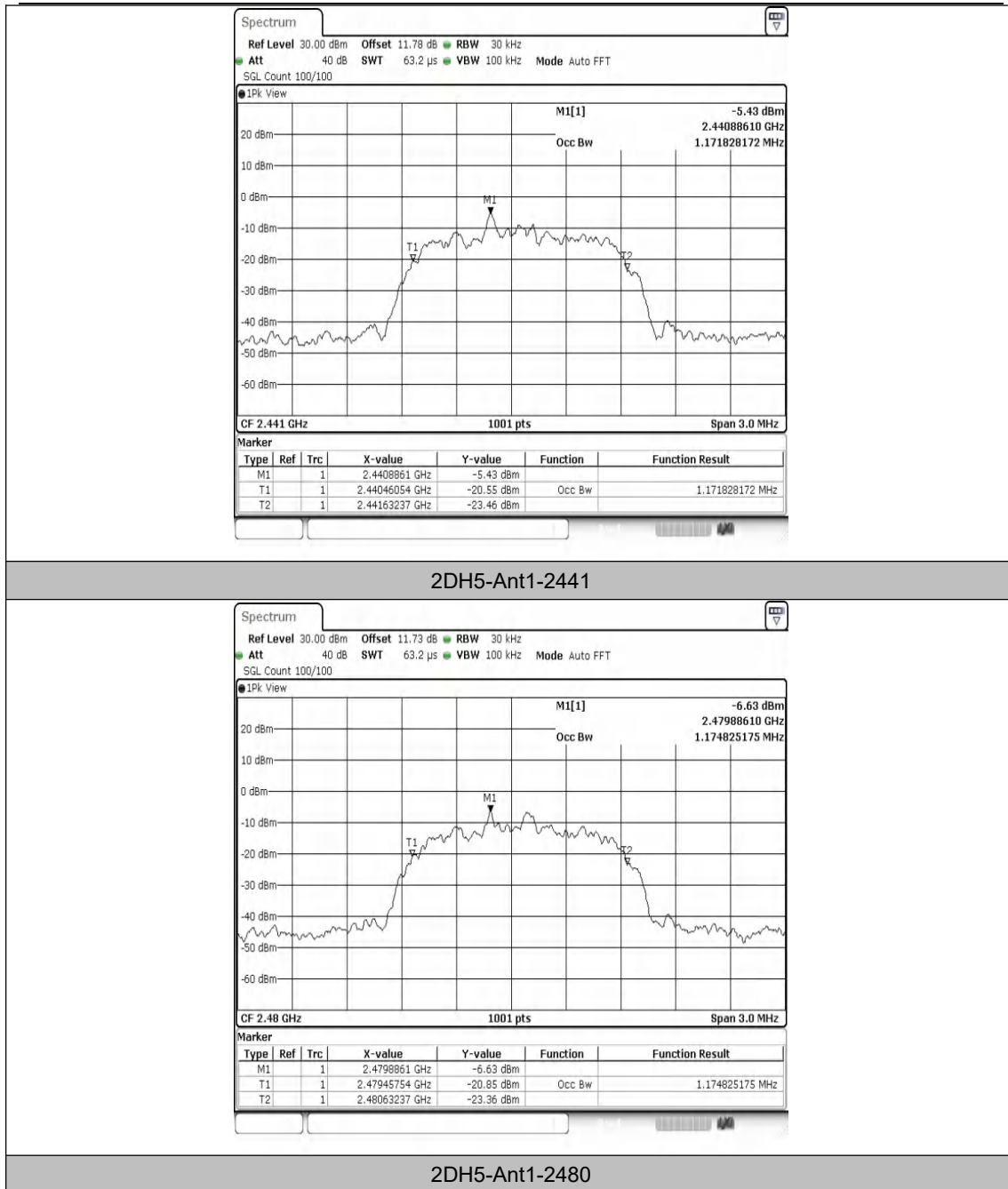


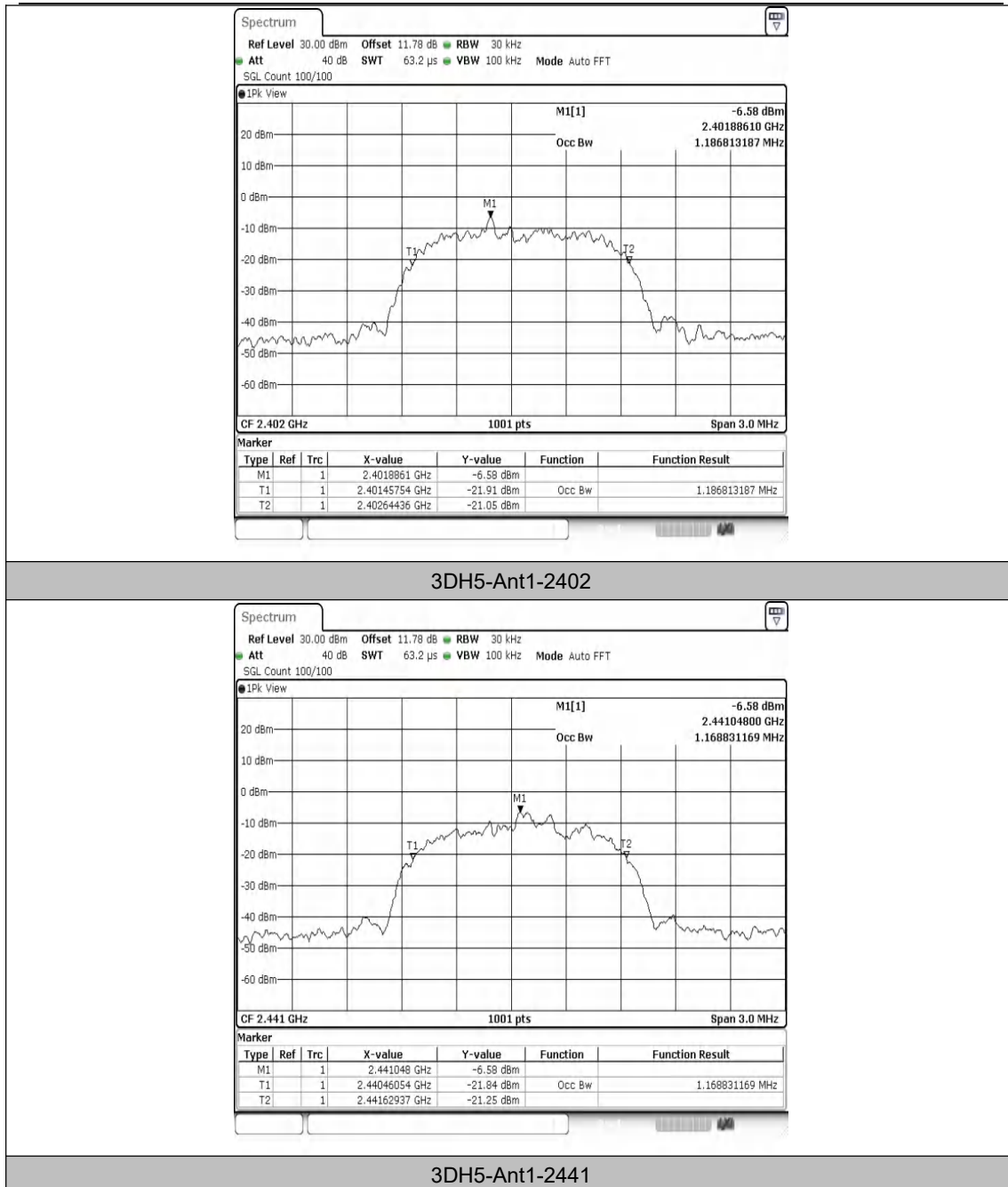
## Test Graphs

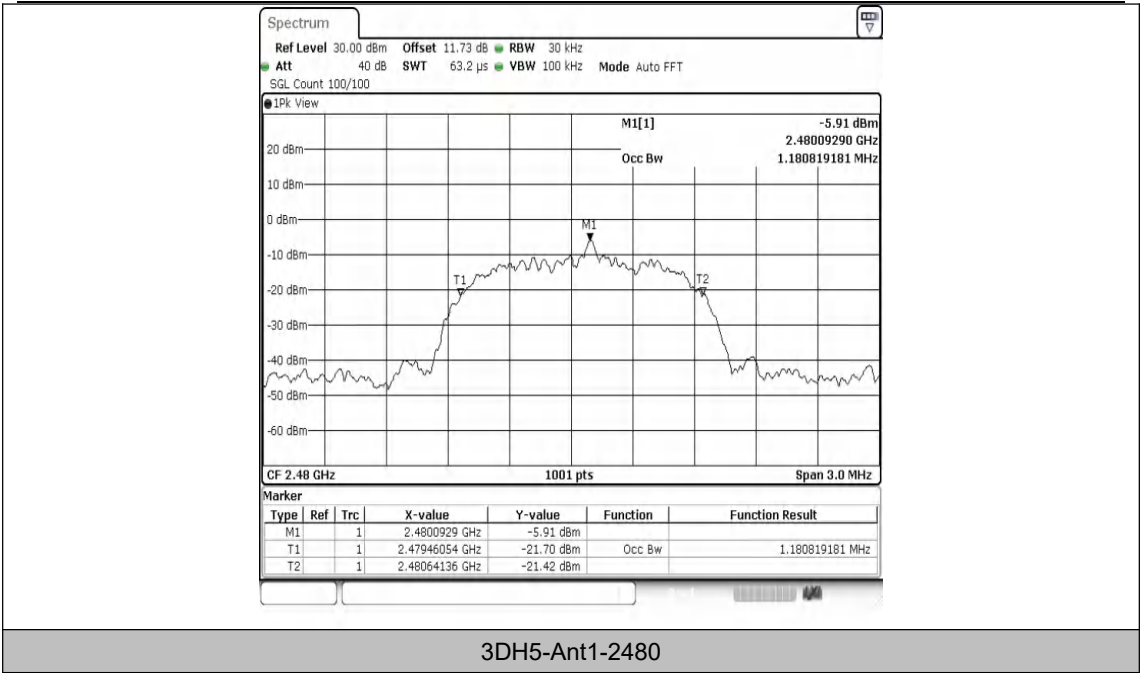












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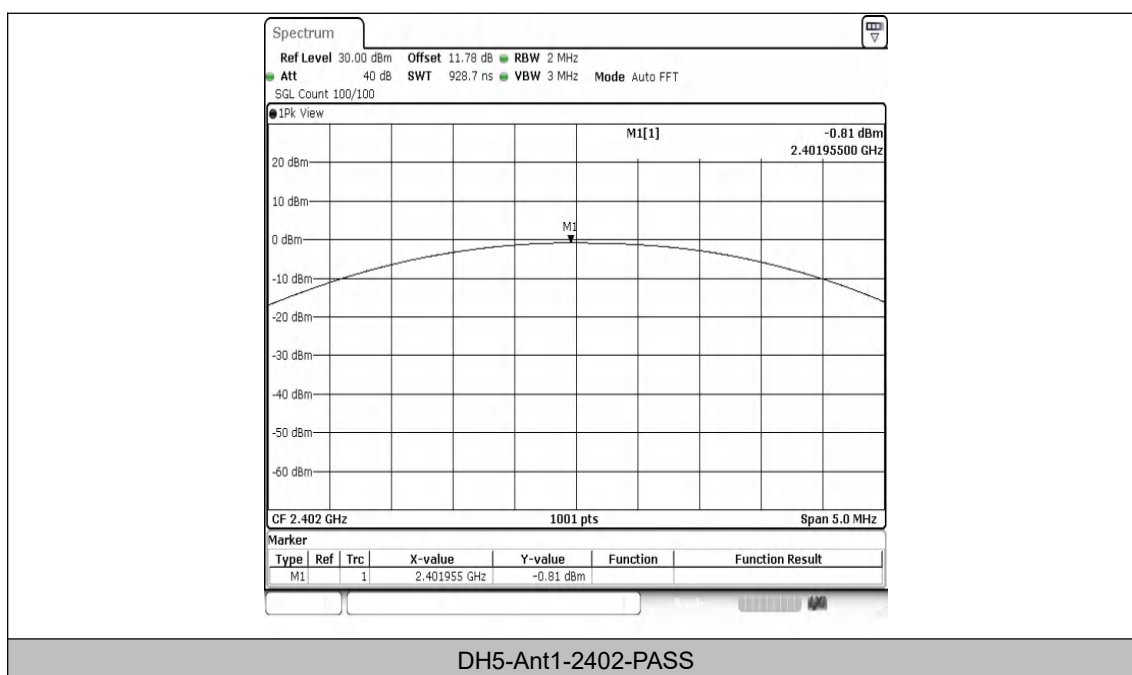


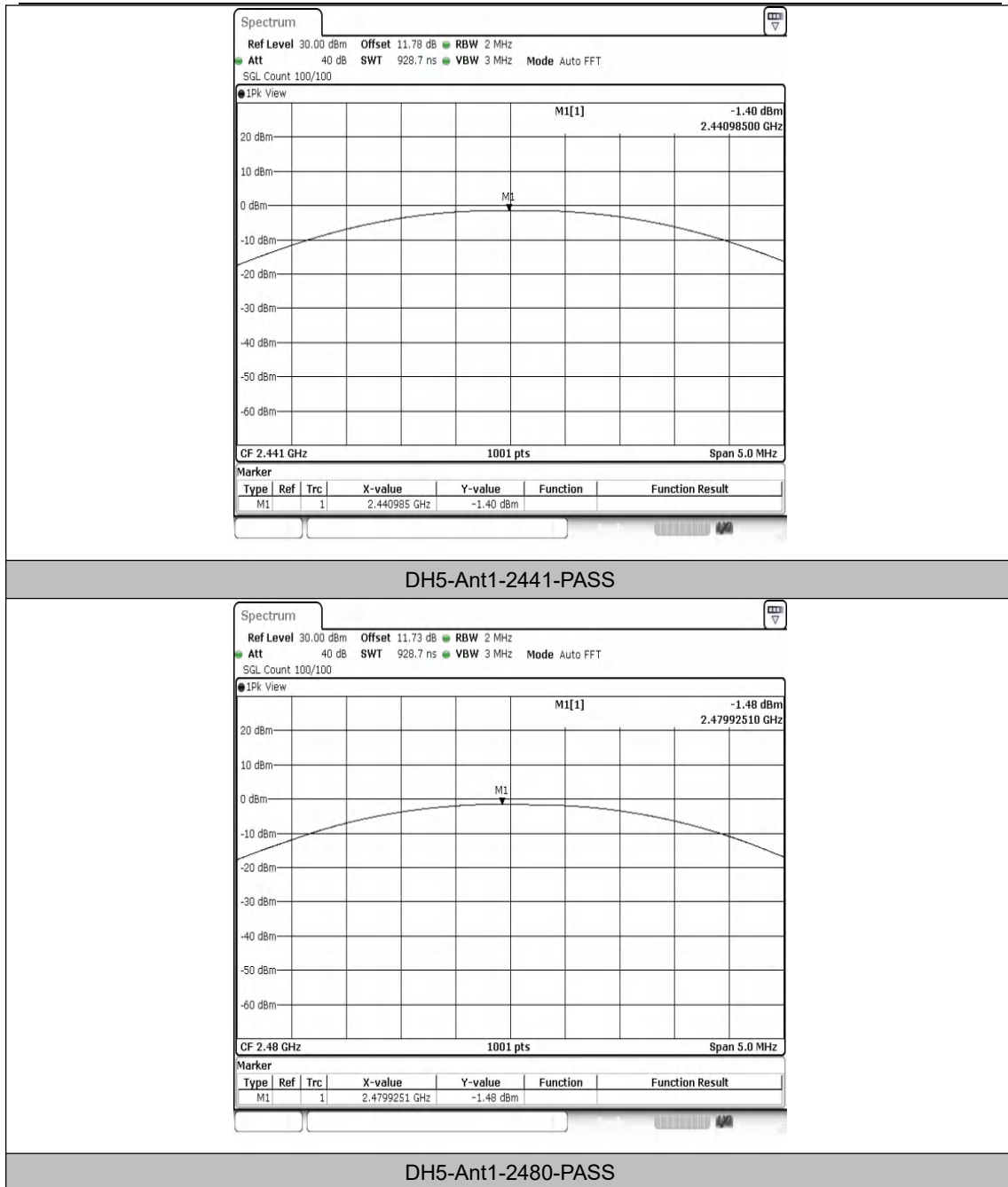
## Appendix C: Maximum Conducted Output Power

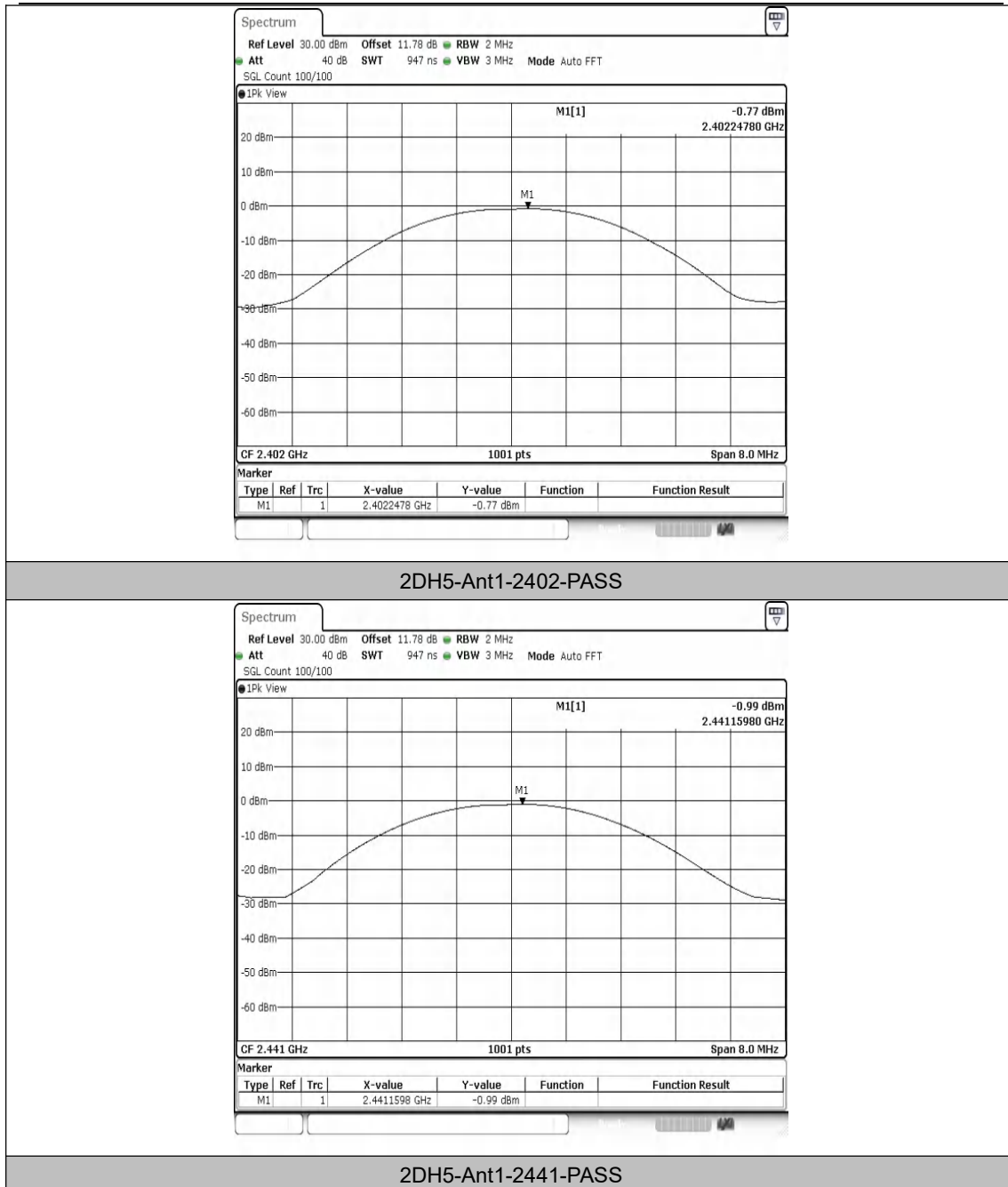
### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402           | -0.81                     | ≤20.97               | PASS    |
| DH5       | Ant1    | 2441           | -1.40                     | ≤20.97               | PASS    |
| DH5       | Ant1    | 2480           | -1.48                     | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2402           | -0.77                     | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2441           | -0.99                     | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2480           | -1.58                     | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2402           | <b>-0.39</b>              | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2441           | -1.22                     | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2480           | -0.91                     | ≤20.97               | PASS    |

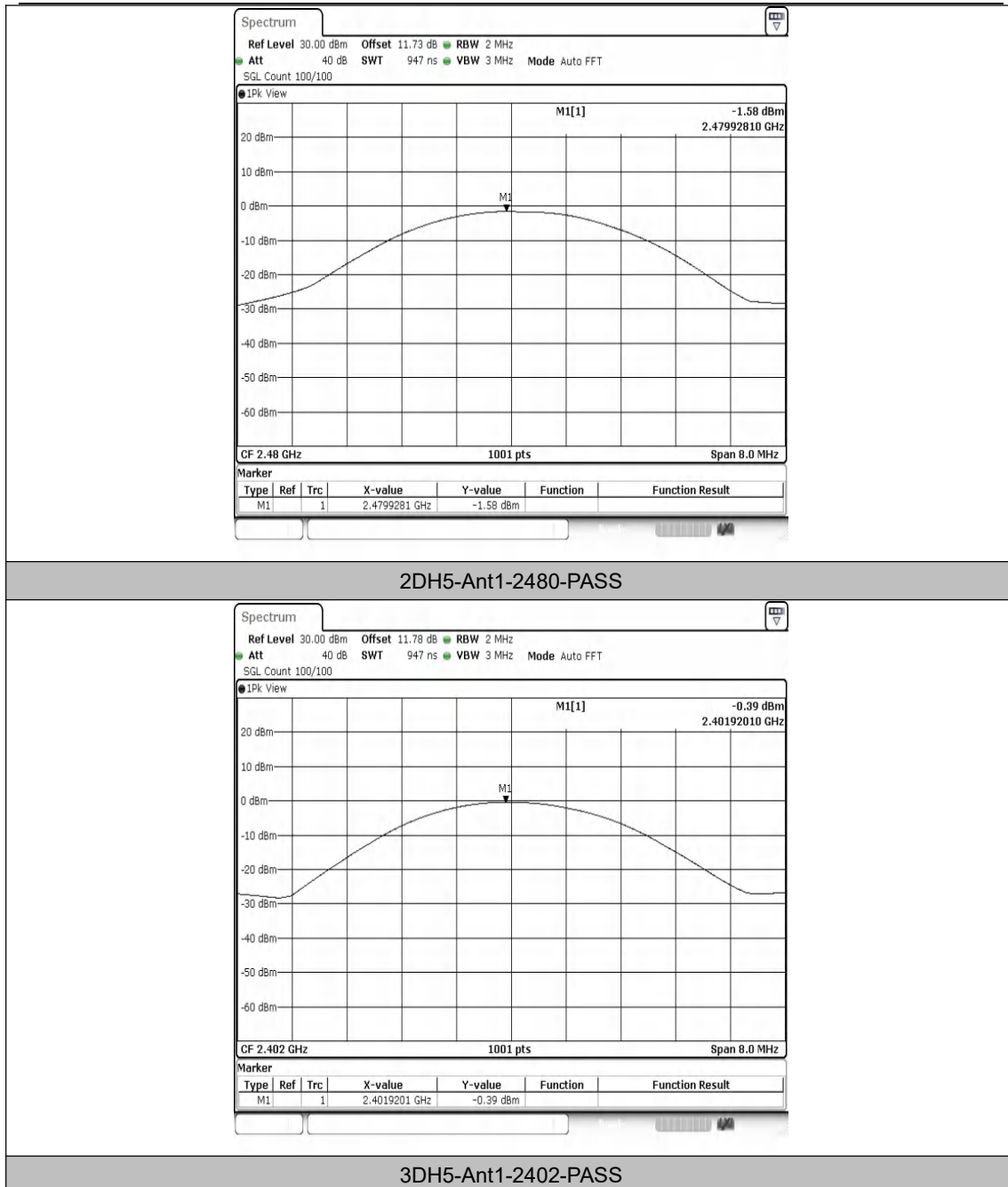
### Test Graphs

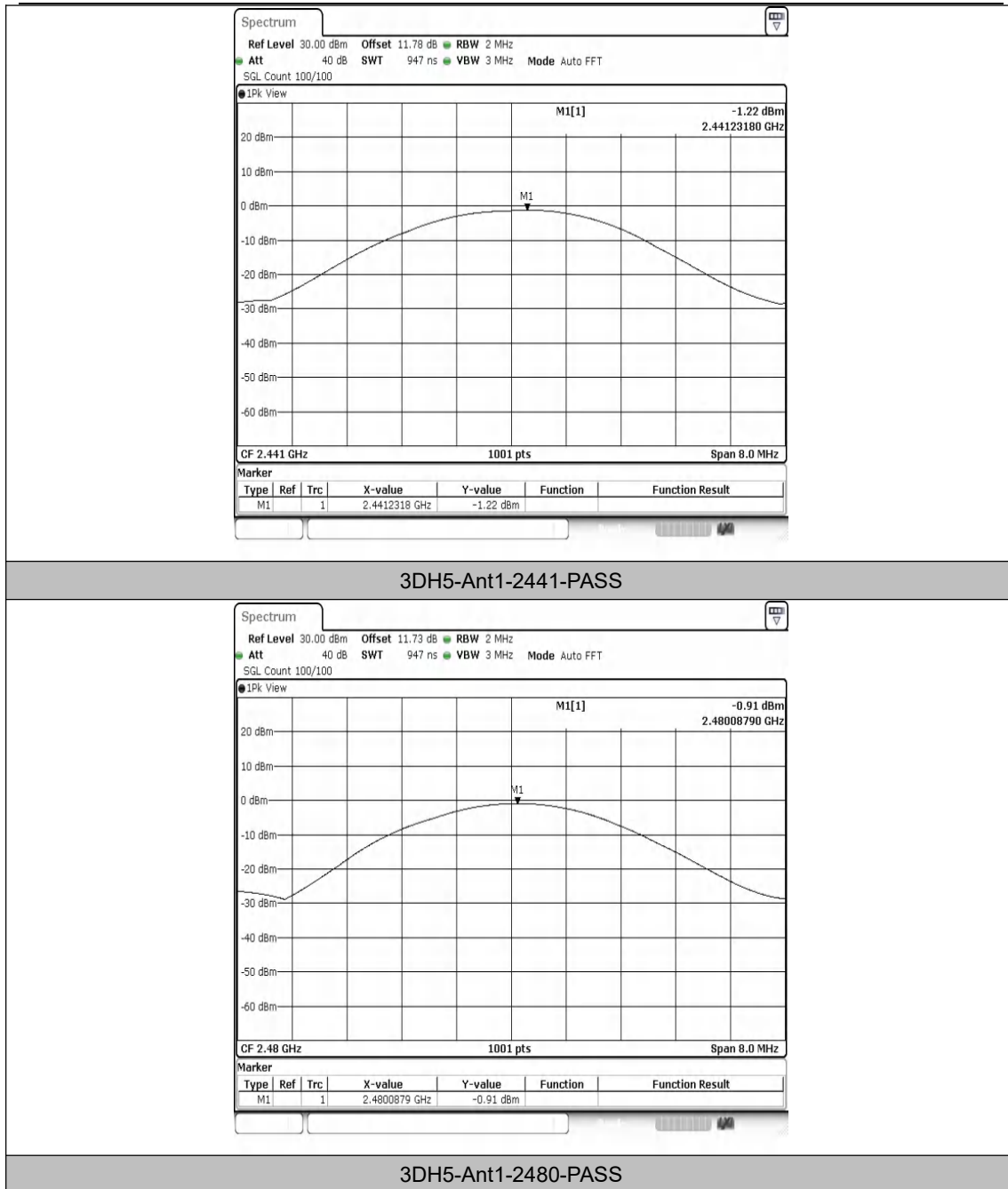












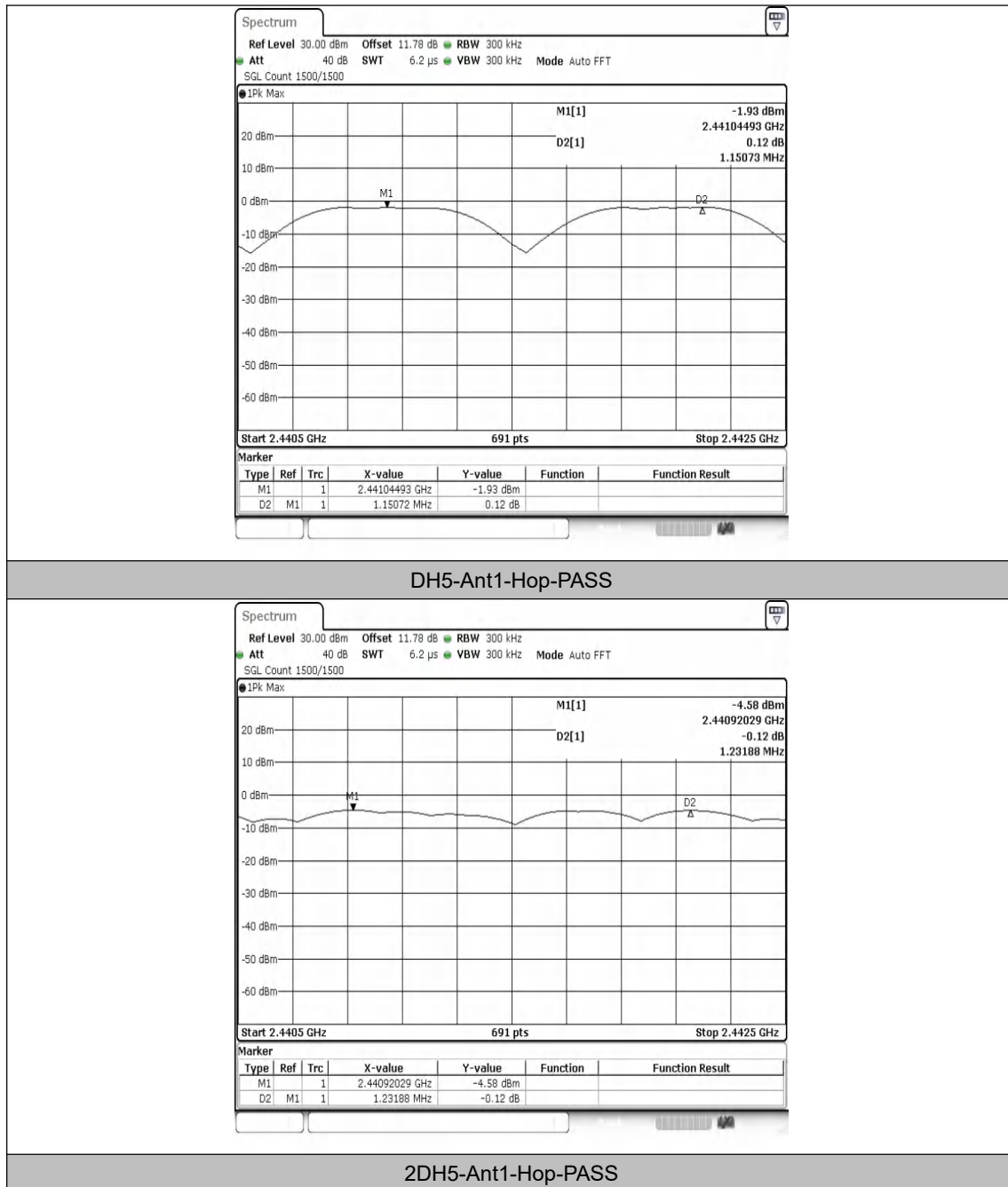
## Appendix D: Carrier frequency separation

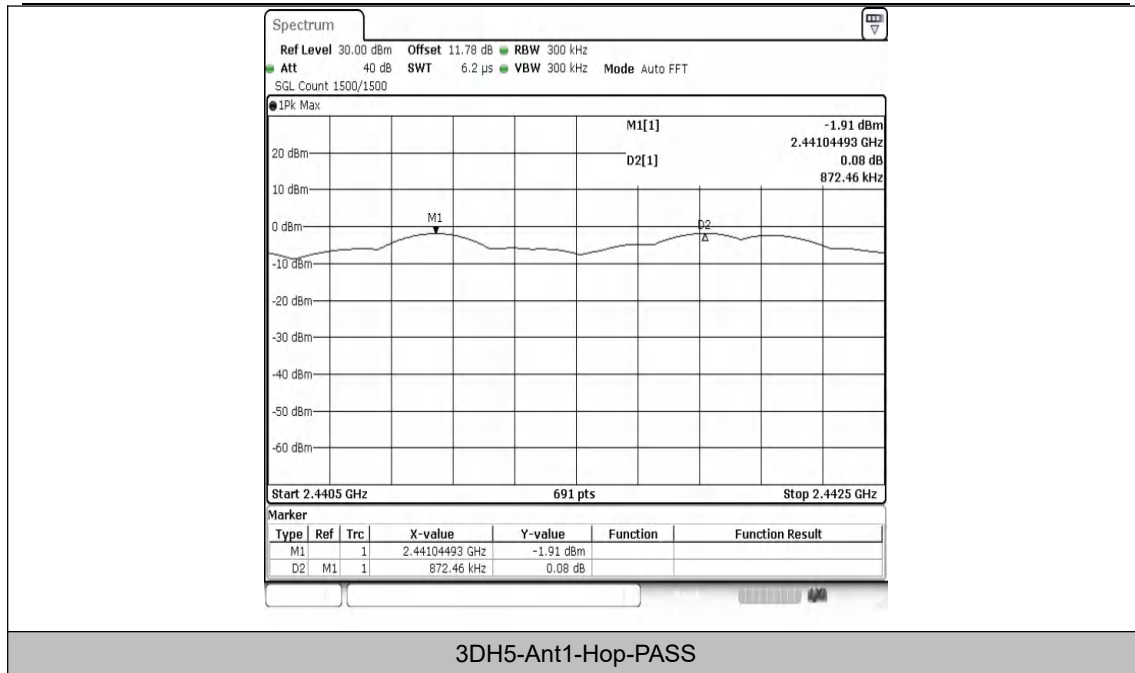
### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[MHz] | Limit[MHz]   | Verdict |
|-----------|---------|--------------------|-----------------|--------------|---------|
| DH5       | Ant1    | Hop                | 1.151           | $\geq 0.627$ | PASS    |
| 2DH5      | Ant1    | Hop                | 1.232           | $\geq 0.860$ | PASS    |
| 3DH5      | Ant1    | Hop                | 0.872           | $\geq 0.867$ | PASS    |



## Test Graphs





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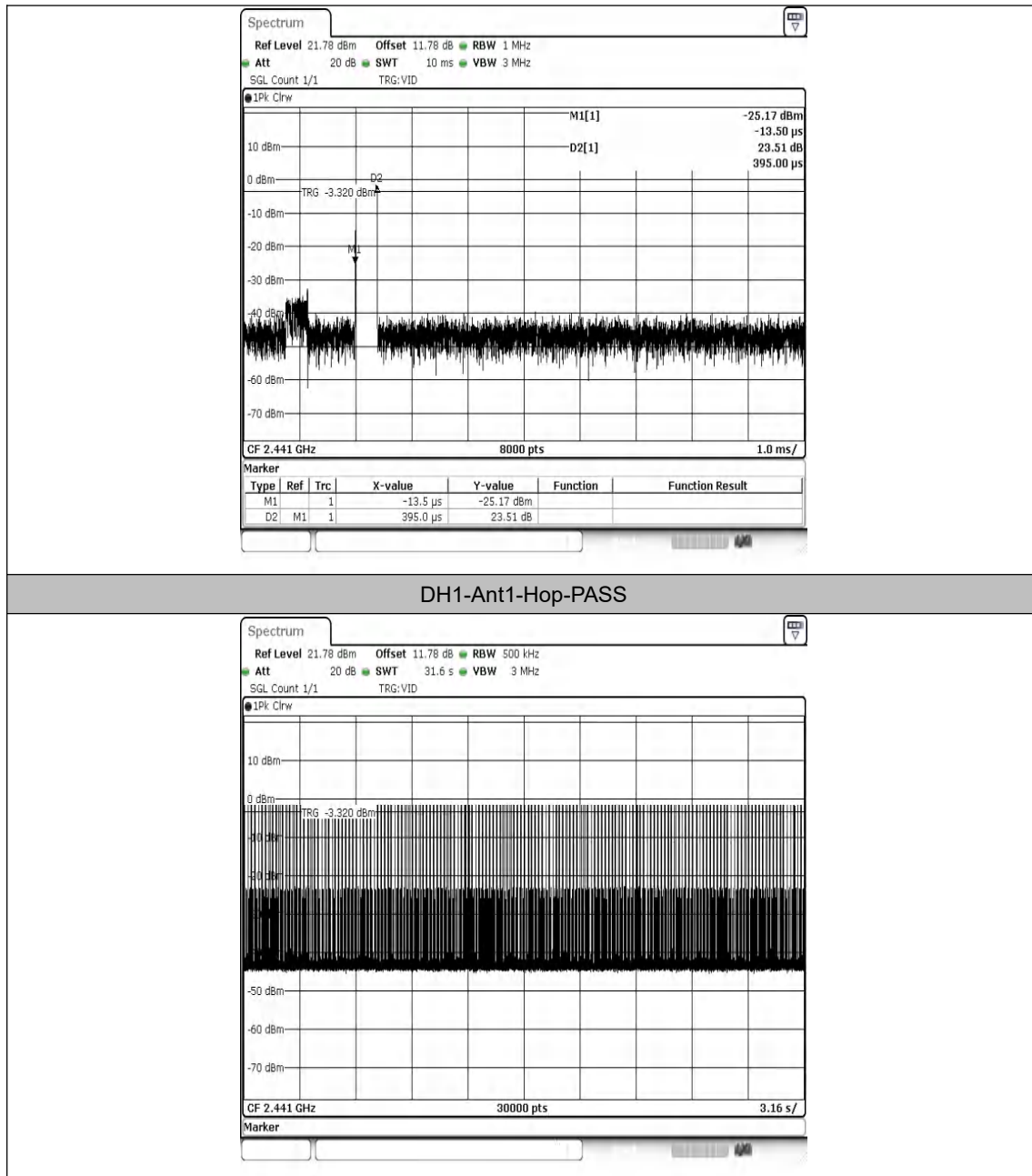
## Appendix E: Dwell Time

### Test Result

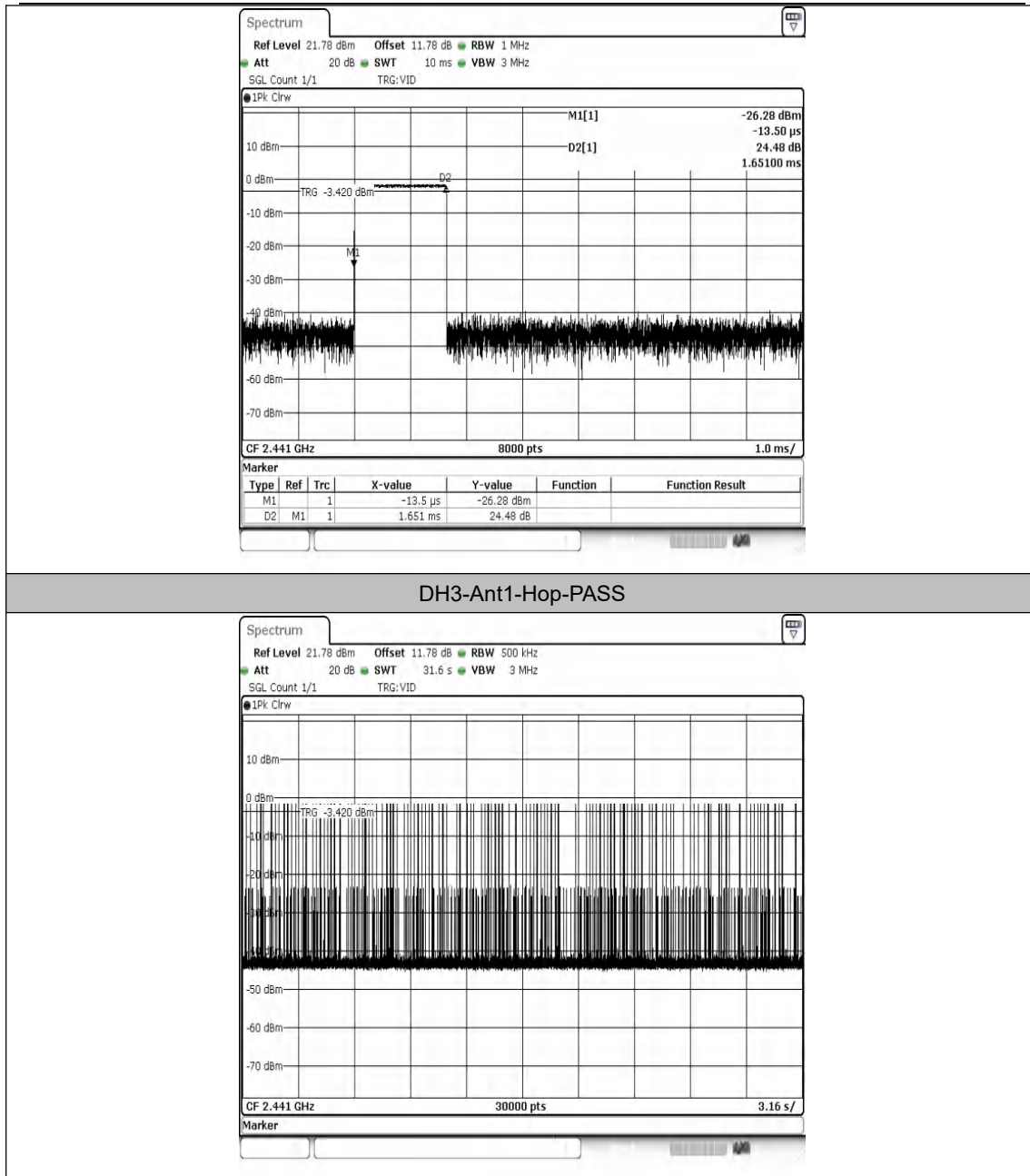
| Test Mode | Antenna | Frequency [MHz] | Burst Width [ms] | Total Hops [Num] | Result [s] | Limit [s] | Verdict |
|-----------|---------|-----------------|------------------|------------------|------------|-----------|---------|
| DH1       | Ant1    | Hop             | 0.395            | 319              | 0.126      | ≤0.4      | PASS    |
| DH3       | Ant1    | Hop             | 1.651            | 158              | 0.261      | ≤0.4      | PASS    |
| DH5       | Ant1    | Hop             | 2.900            | 120              | 0.348      | ≤0.4      | PASS    |
| 2DH1      | Ant1    | Hop             | 0.405            | 318              | 0.129      | ≤0.4      | PASS    |
| 2DH3      | Ant1    | Hop             | 1.656            | 160              | 0.265      | ≤0.4      | PASS    |
| 2DH5      | Ant1    | Hop             | 2.905            | 117              | 0.340      | ≤0.4      | PASS    |
| 3DH1      | Ant1    | Hop             | 0.406            | 319              | 0.130      | ≤0.4      | PASS    |
| 3DH3      | Ant1    | Hop             | 1.658            | 161              | 0.267      | ≤0.4      | PASS    |
| 3DH5      | Ant1    | Hop             | 2.908            | 111              | 0.323      | ≤0.4      | PASS    |

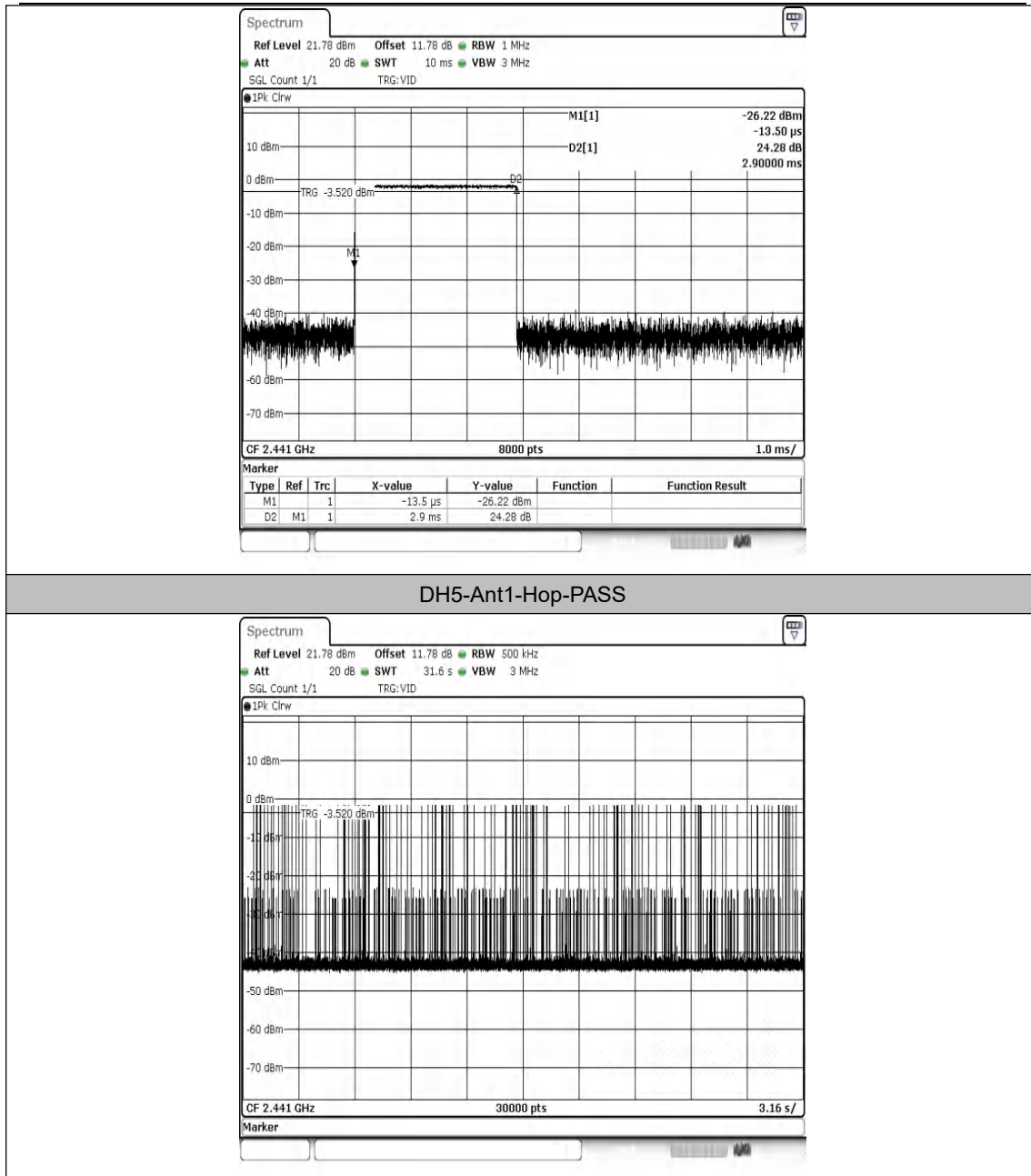


## Test Graphs







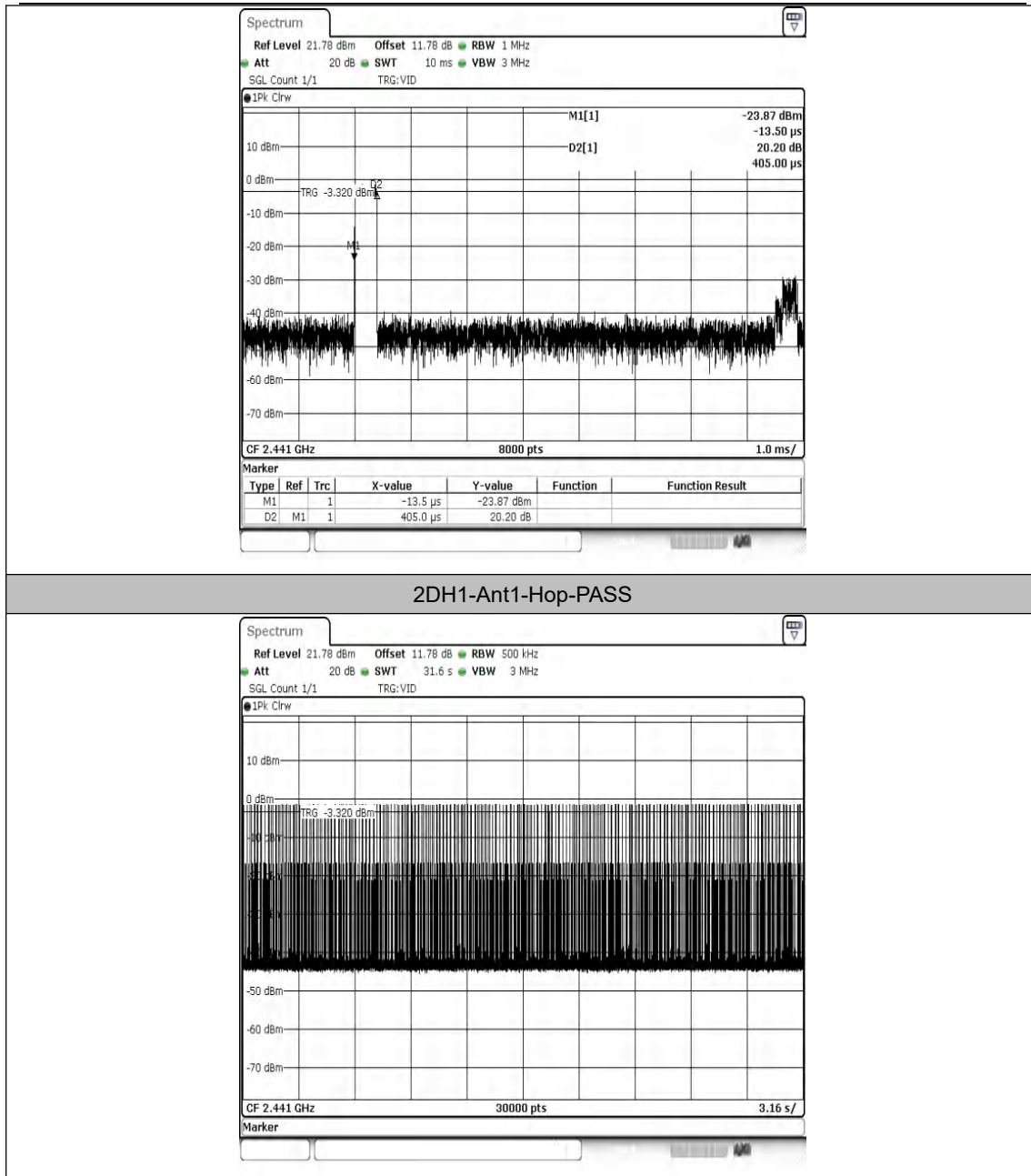


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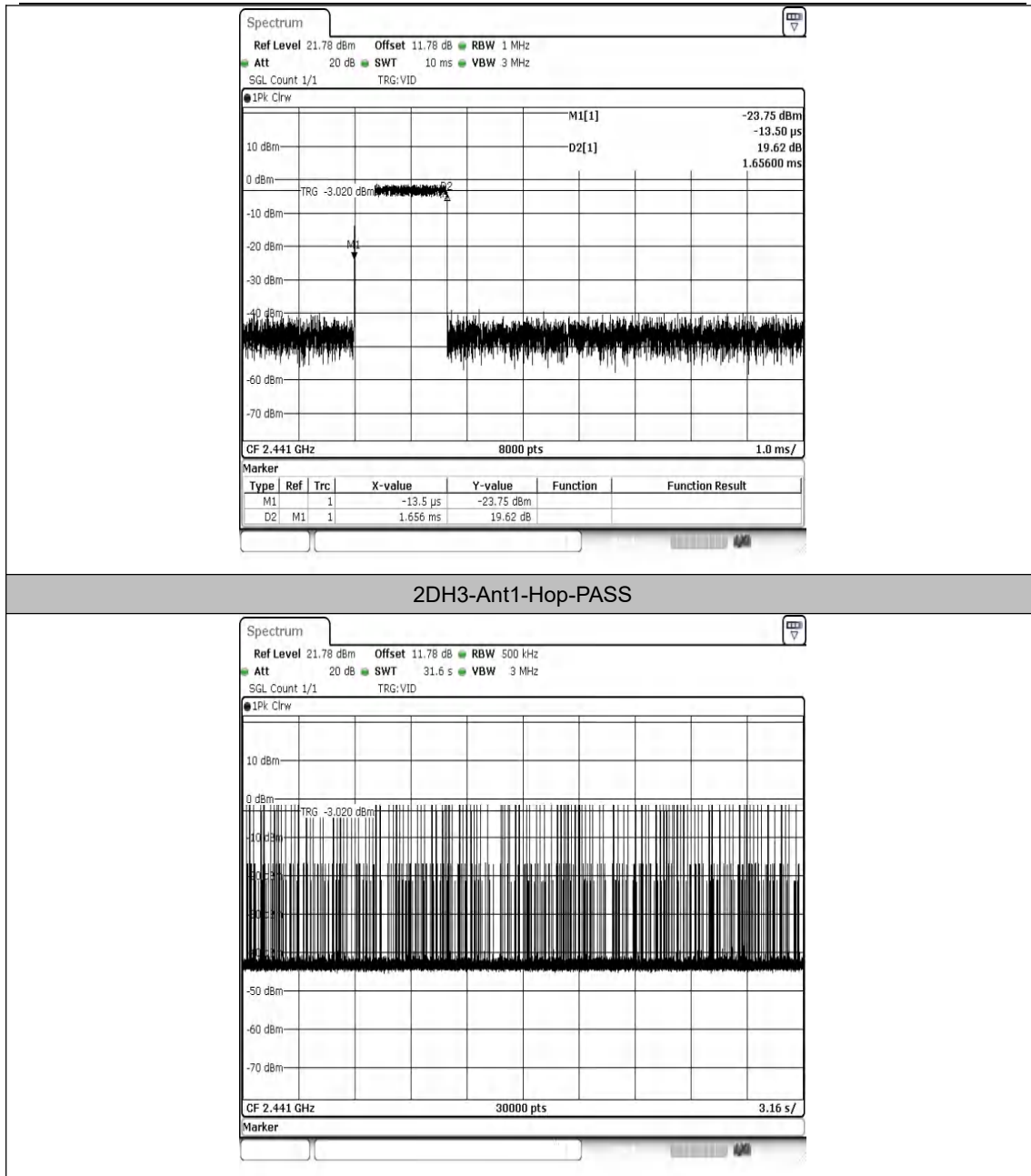


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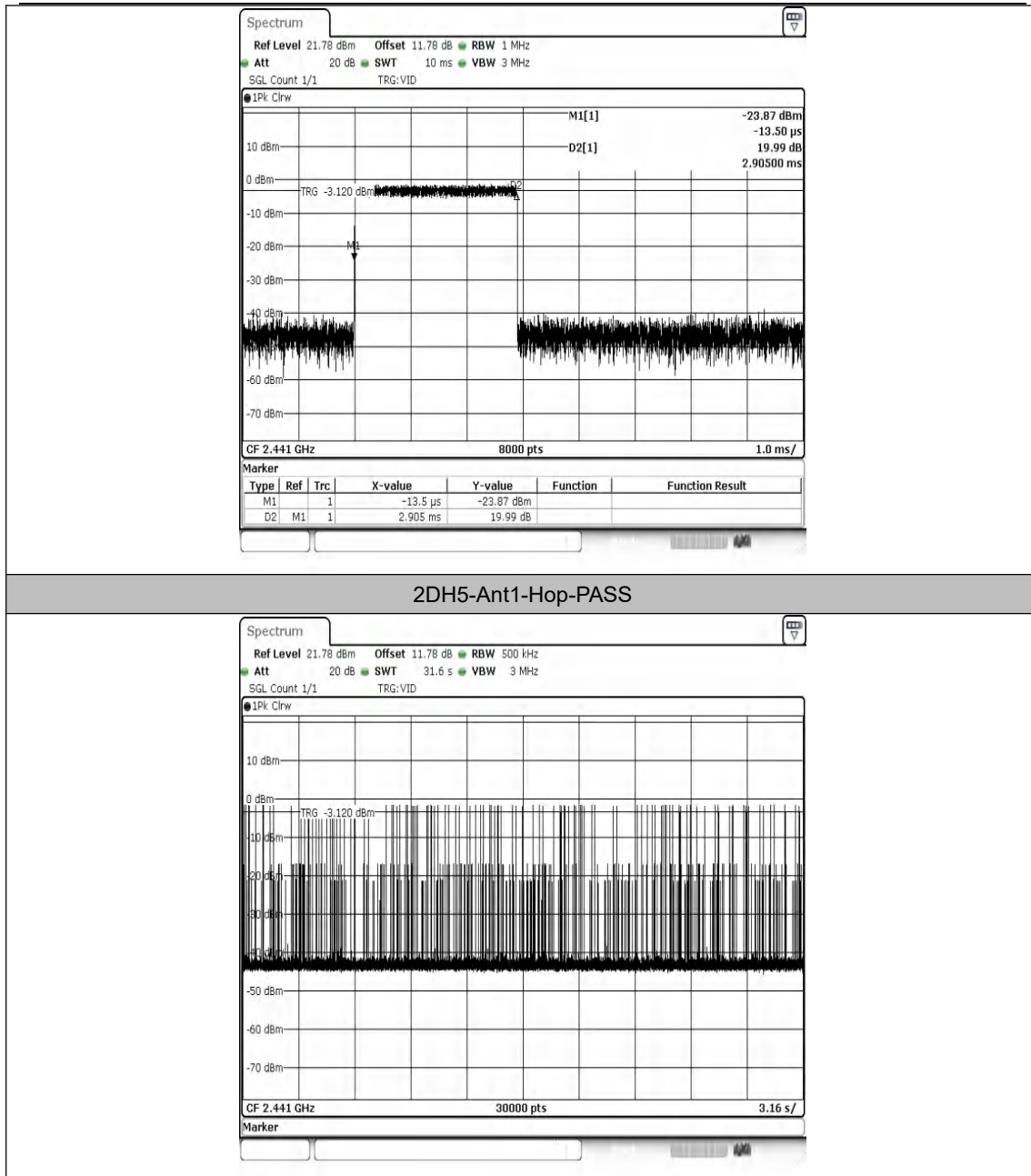


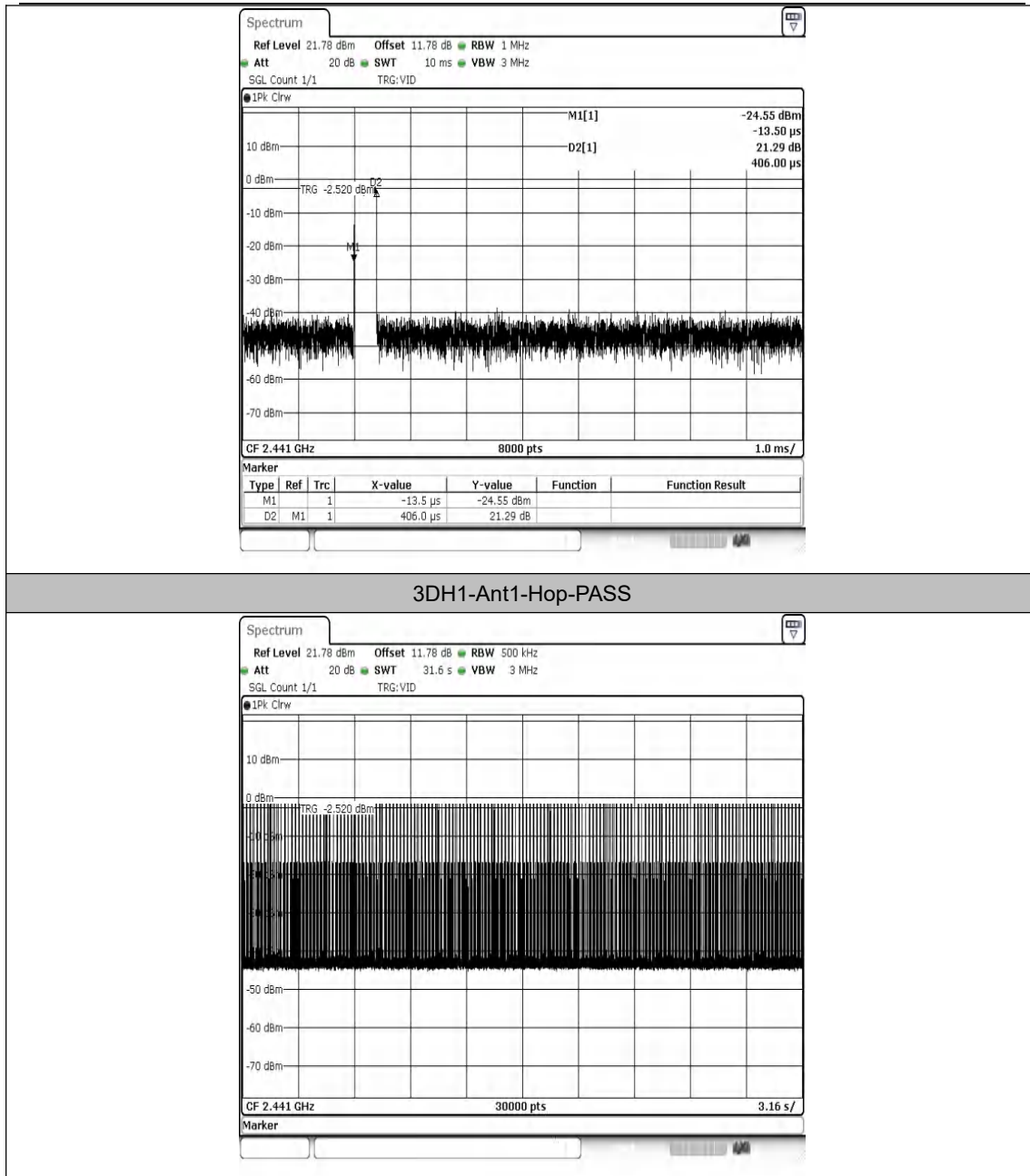
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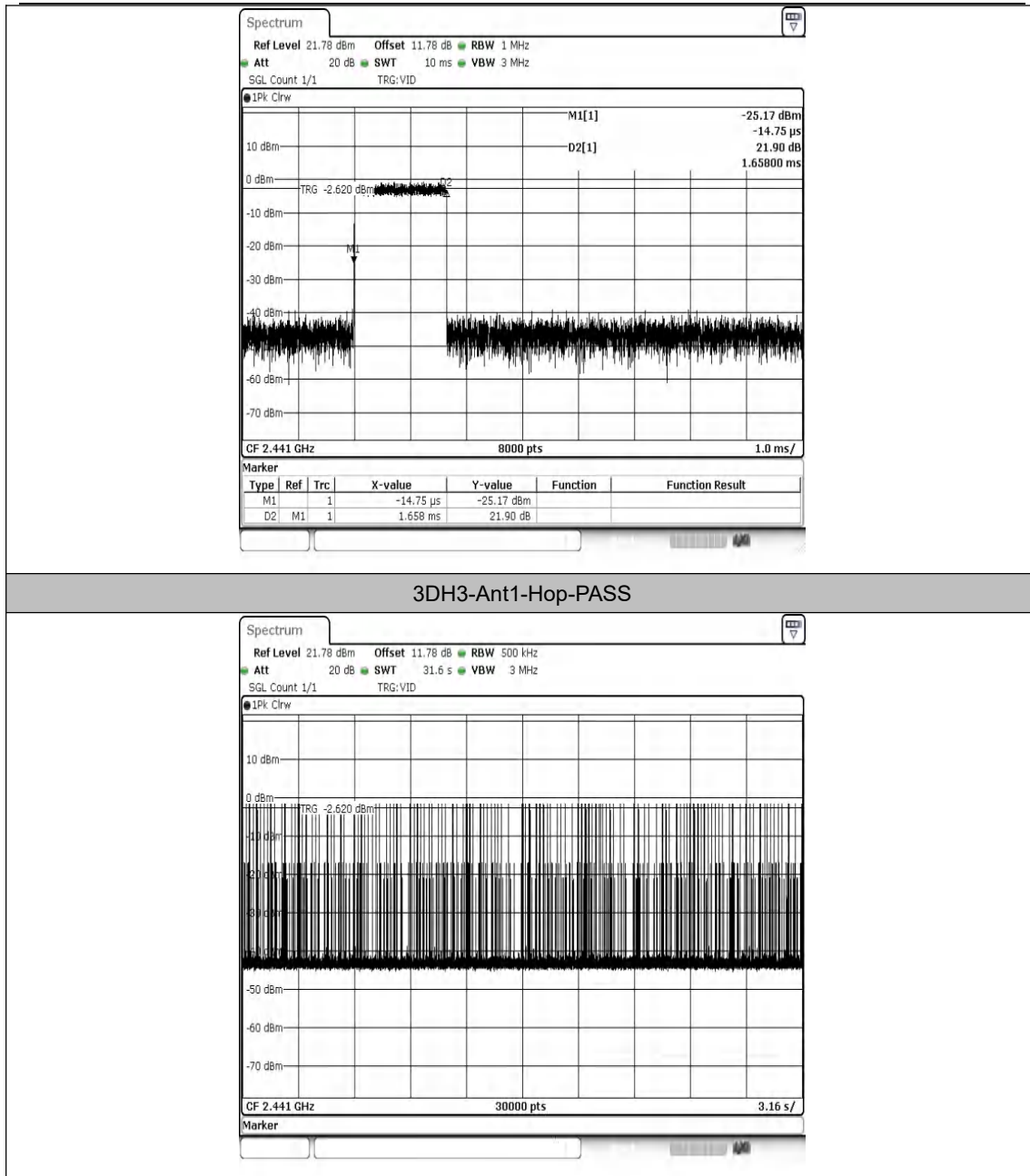
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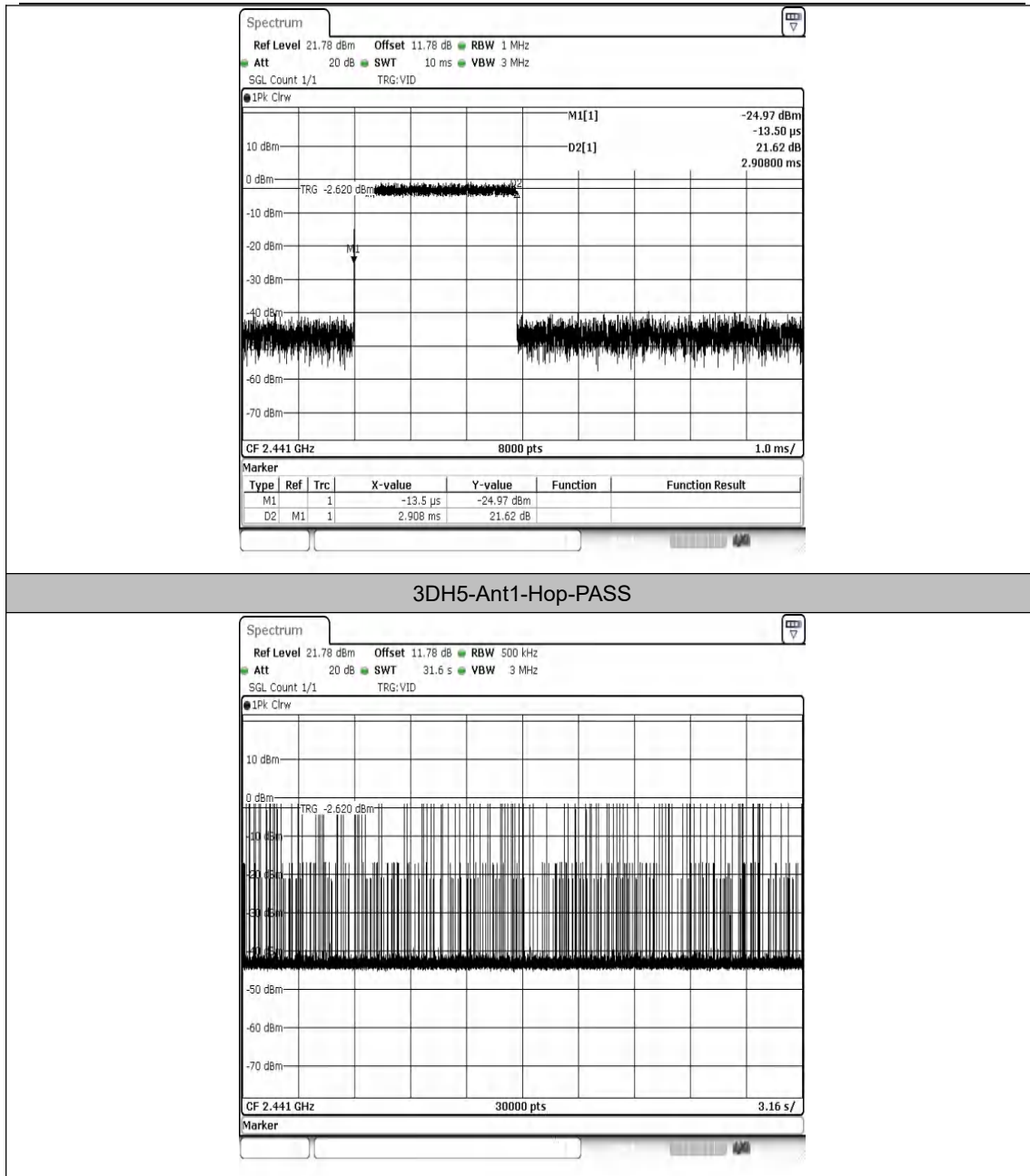
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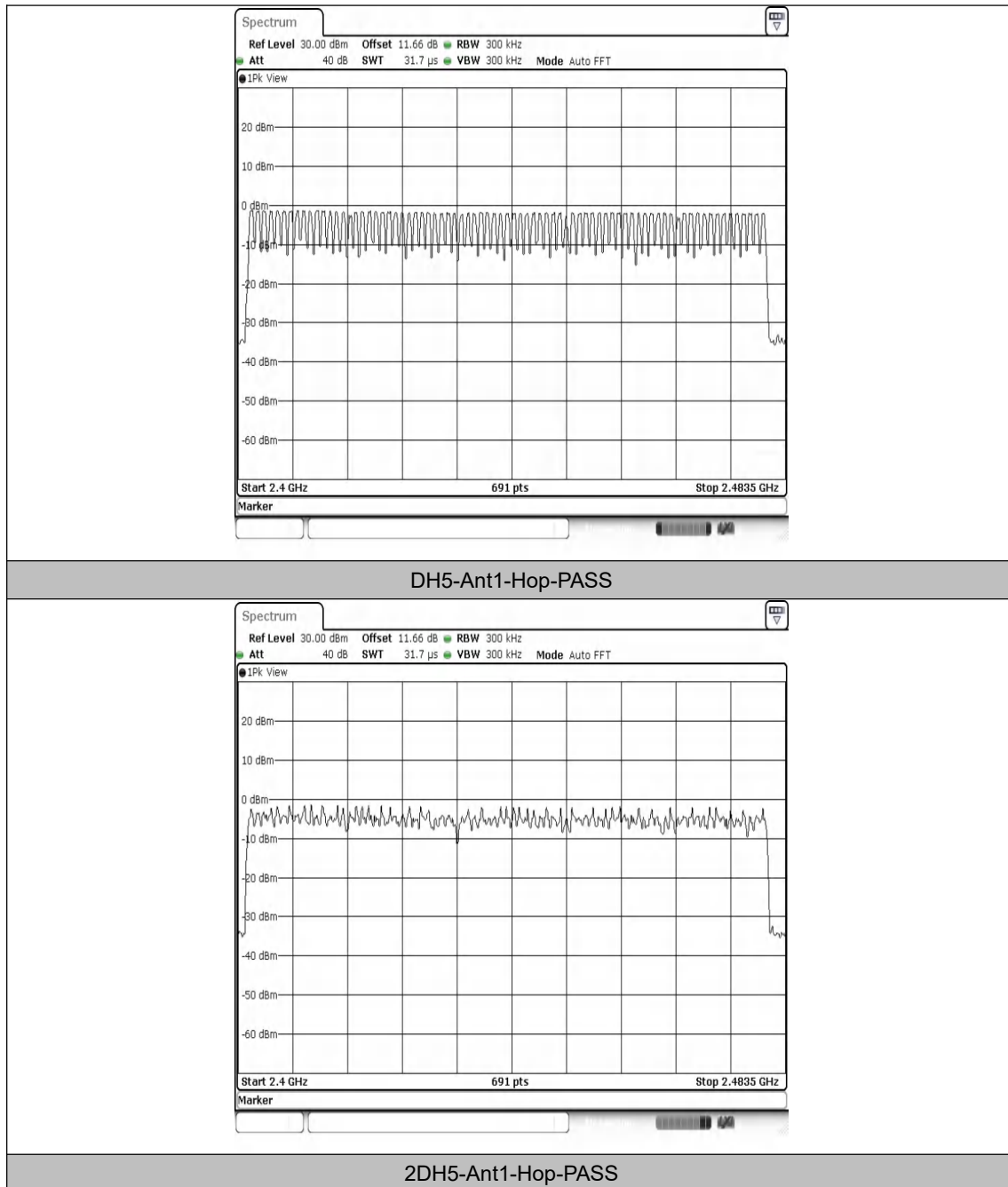
## Appendix F: Number of Hopping Channel

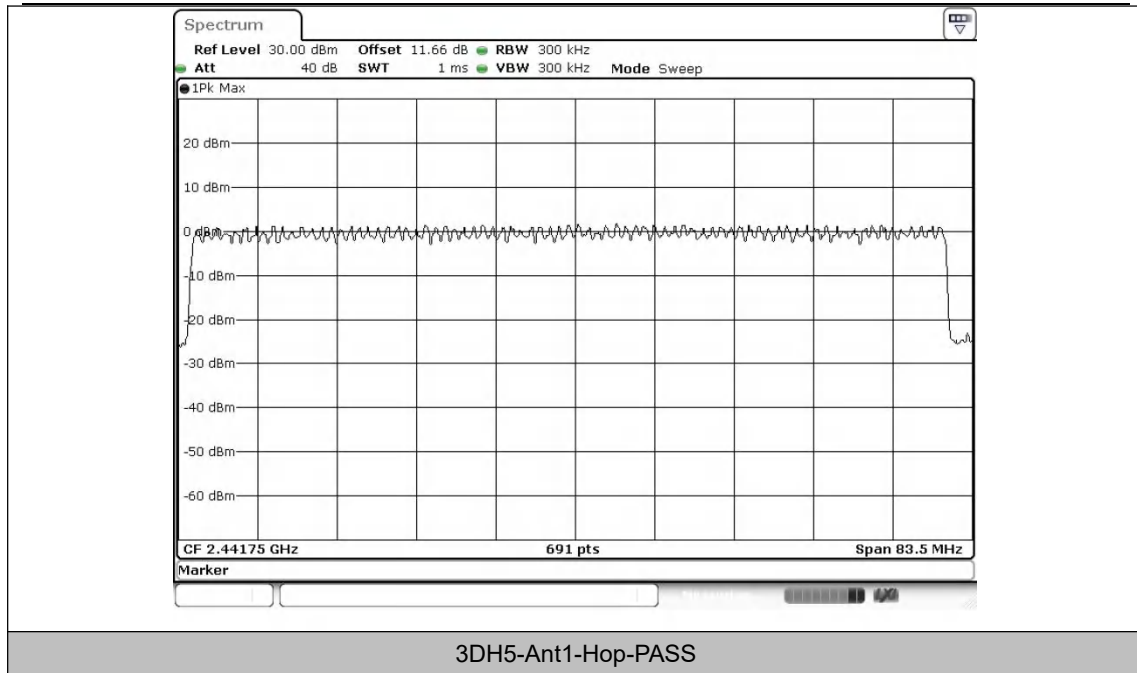
### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[Num] | Limit<br>[Num] | Verdict |
|-----------|---------|--------------------|-----------------|----------------|---------|
| DH5       | Ant1    | Hop                | 79              | ≥15            | PASS    |
| 2DH5      | Ant1    | Hop                | 79              | ≥15            | PASS    |
| 3DH5      | Ant1    | Hop                | 79              | ≥15            | PASS    |



## Test Graphs





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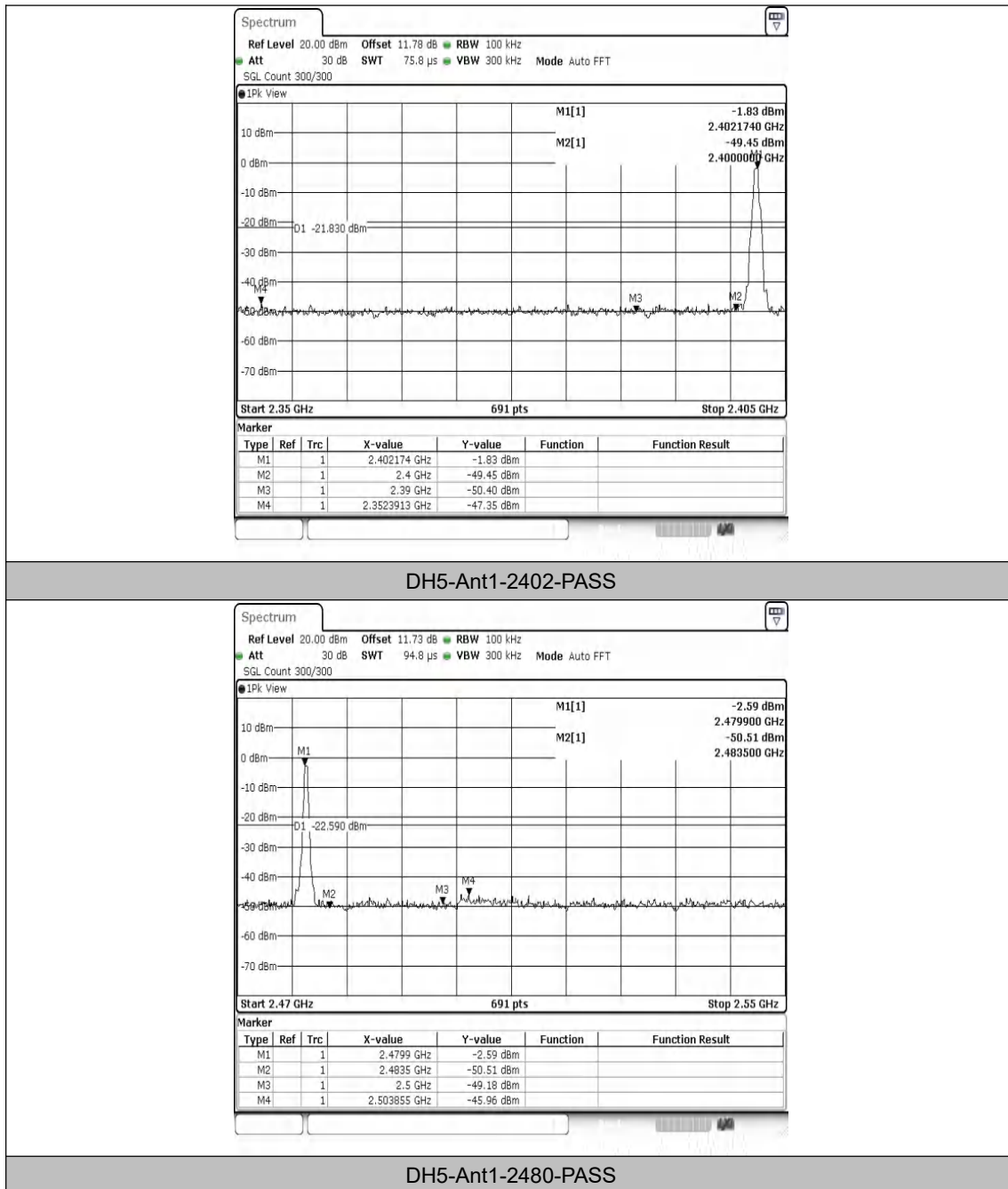
## Appendix G: Conducted Band edge

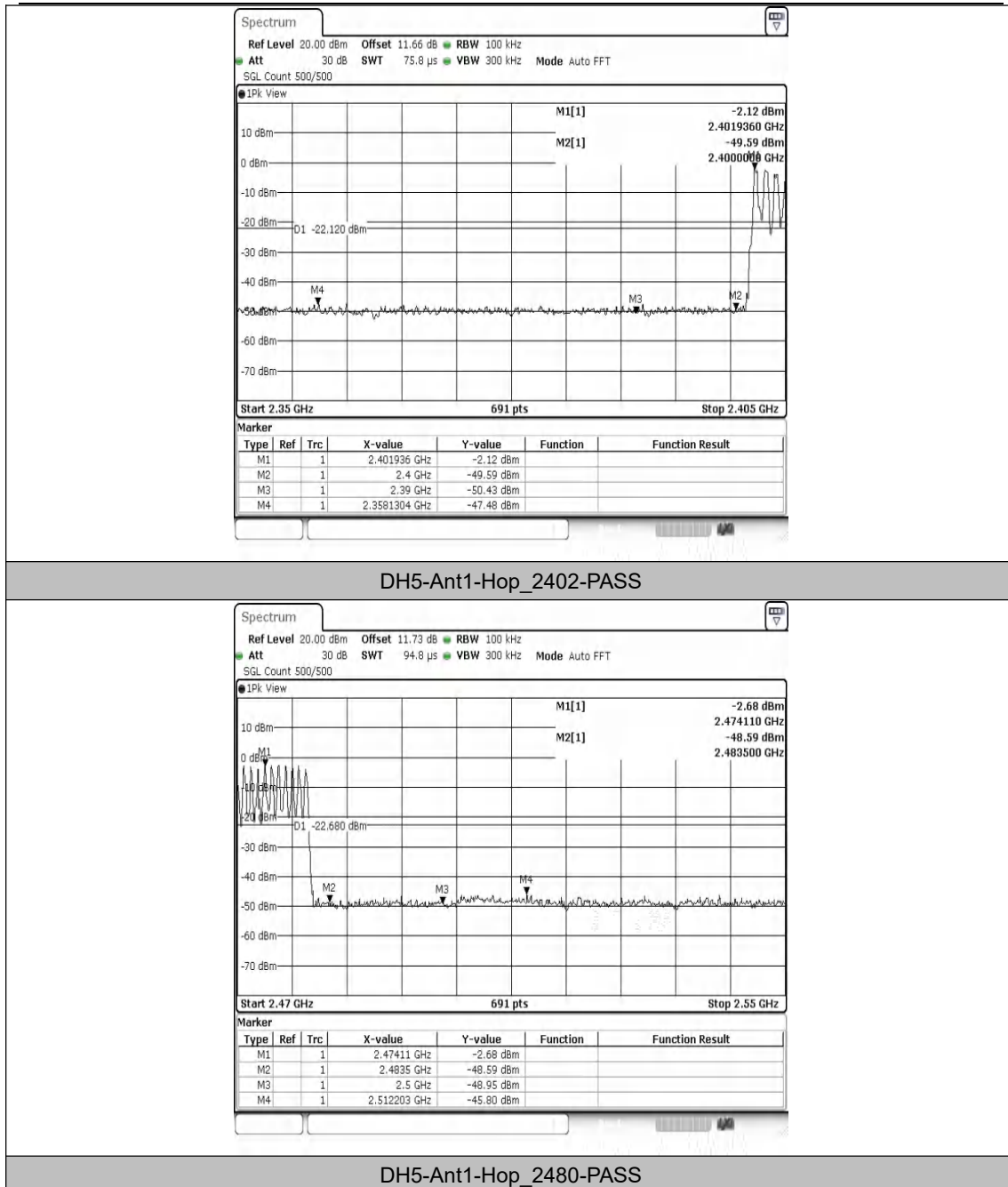
### Test Result

| Test Mode | Antenna | Ch. Name | Frequency [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------|-----------------|------------------|--------------|-------------|---------|
| DH5       | Ant1    | Low      | 2402            | -1.83            | -47.35       | ≤-21.83     | PASS    |
| DH5       | Ant1    | High     | 2480            | -2.59            | -45.96       | ≤-22.59     | PASS    |
| DH5       | Ant1    | Low      | Hop_2402        | -2.12            | -47.48       | ≤-22.12     | PASS    |
| DH5       | Ant1    | High     | Hop_2480        | -2.68            | -45.8        | ≤-22.68     | PASS    |
| 2DH5      | Ant1    | Low      | 2402            | -1.55            | -46.48       | ≤-21.55     | PASS    |
| 2DH5      | Ant1    | High     | 2480            | -3.68            | -46.32       | ≤-23.68     | PASS    |
| 2DH5      | Ant1    | Low      | Hop_2402        | -3.76            | -47          | ≤-23.76     | PASS    |
| 2DH5      | Ant1    | High     | Hop_2480        | -4.00            | -45.4        | ≤-24        | PASS    |
| 3DH5      | Ant1    | Low      | 2402            | -2.08            | -46.32       | ≤-22.08     | PASS    |
| 3DH5      | Ant1    | High     | 2480            | -2.16            | -44.98       | ≤-22.16     | PASS    |
| 3DH5      | Ant1    | Low      | Hop_2402        | -3.67            | -46.37       | ≤-23.67     | PASS    |
| 3DH5      | Ant1    | High     | Hop_2480        | -3.14            | -45.32       | ≤-23.14     | PASS    |

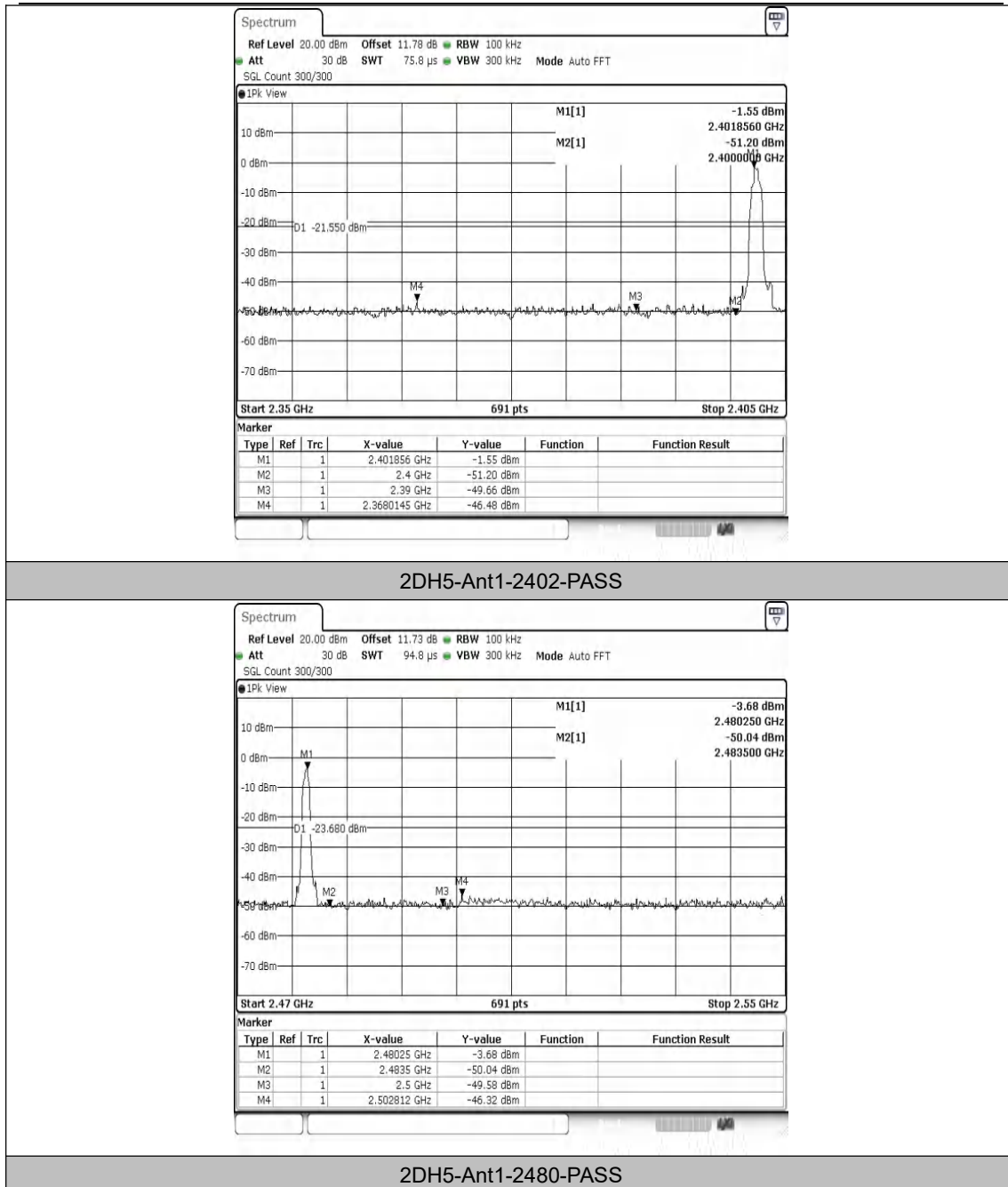


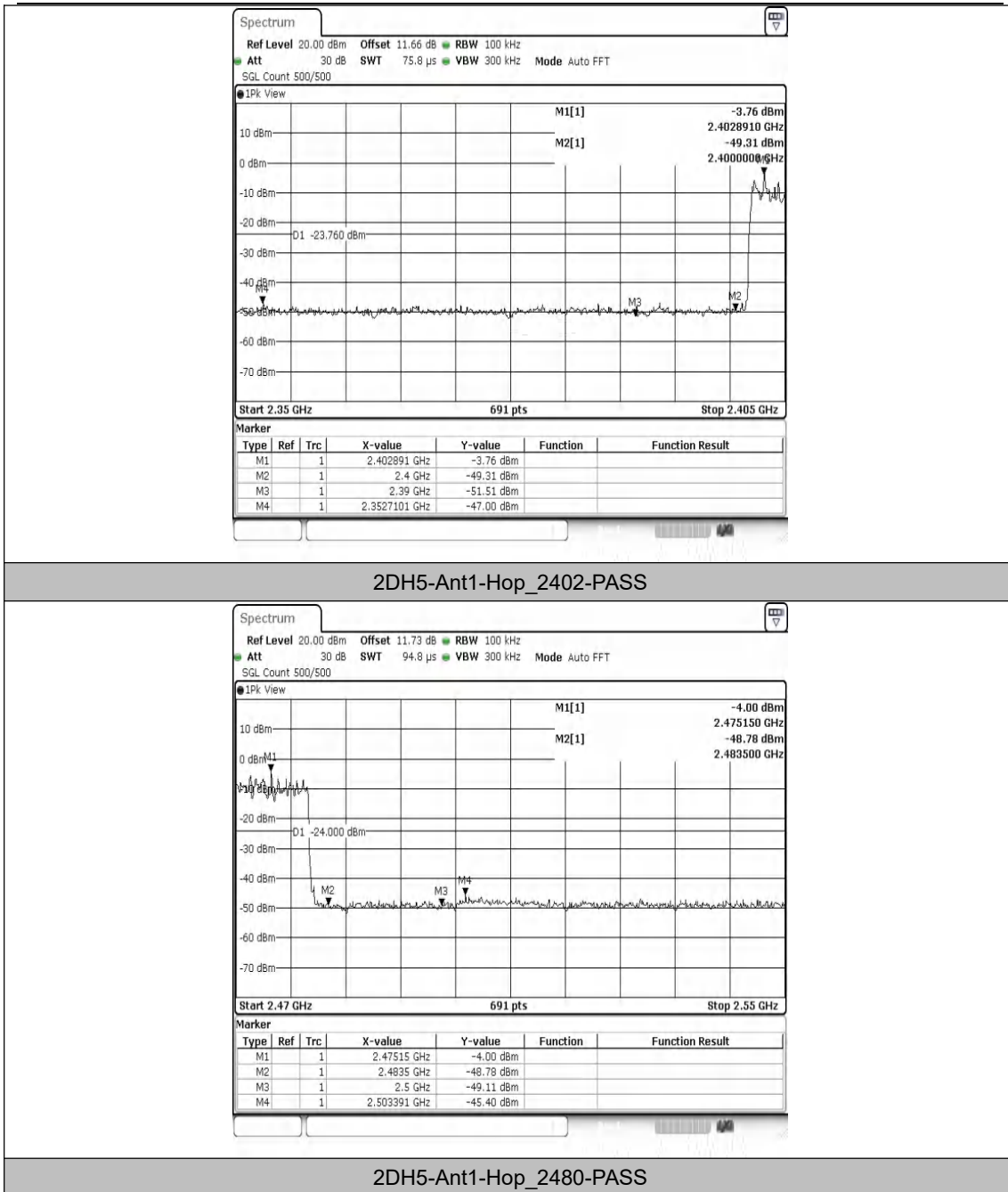
## Test Graphs

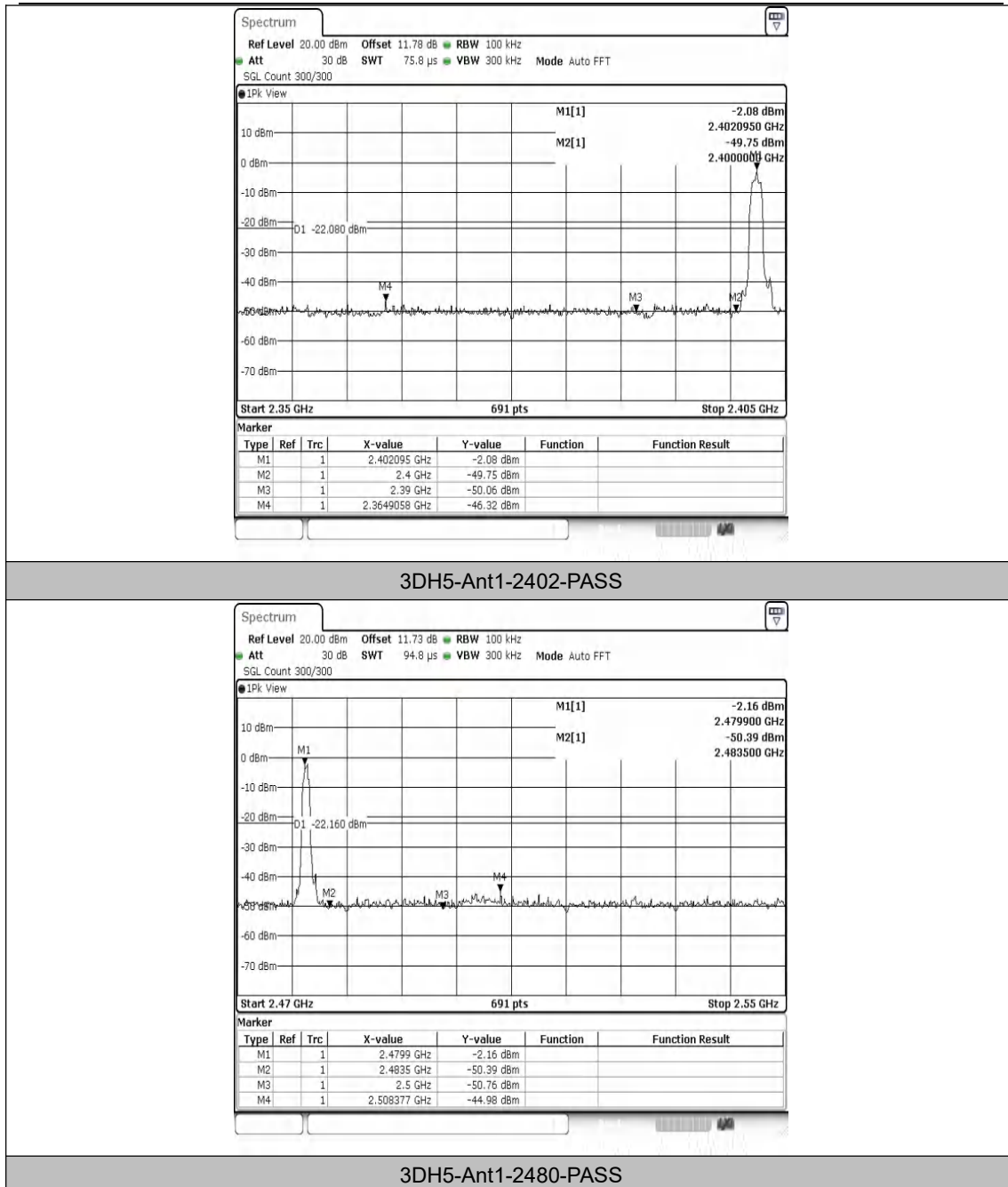


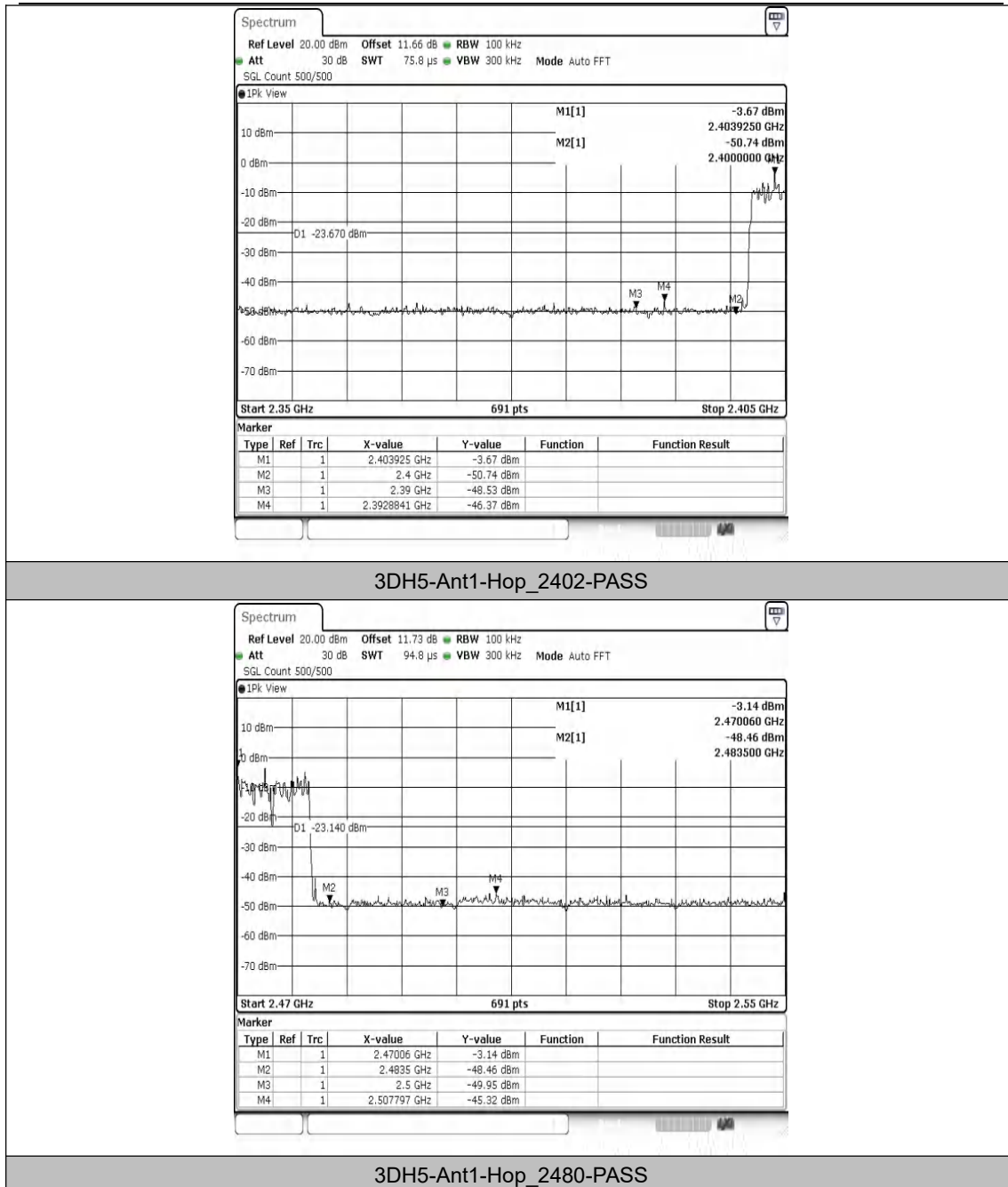












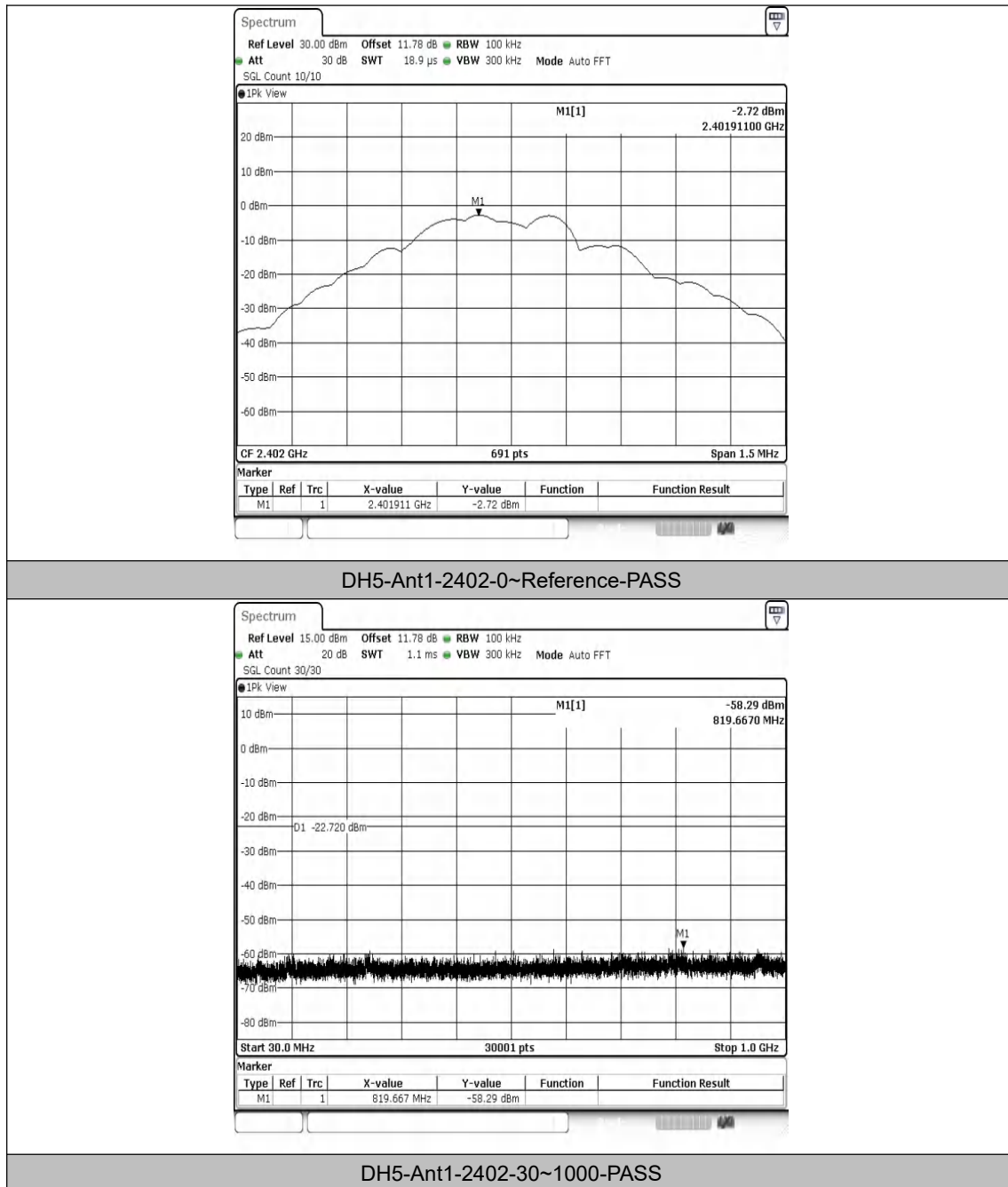
## Appendix H: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-------------------|------------------|--------------|-------------|---------|
| DH5       | Ant1    | 2402           | 0~Reference       | -2.72            | -2.72        | ---         | PASS    |
| DH5       | Ant1    | 2402           | 30~1000           | -2.72            | -58.29       | ≤-22.72     | PASS    |
| DH5       | Ant1    | 2402           | 1000~26500        | -2.72            | -24.92       | ≤-22.72     | PASS    |
| DH5       | Ant1    | 2441           | 0~Reference       | -3.13            | -3.13        | ---         | PASS    |
| DH5       | Ant1    | 2441           | 30~1000           | -3.13            | -53.14       | ≤-23.13     | PASS    |
| DH5       | Ant1    | 2441           | 1000~26500        | -3.13            | -44.24       | ≤-23.13     | PASS    |
| DH5       | Ant1    | 2480           | 0~Reference       | -3.27            | -3.27        | ---         | PASS    |
| DH5       | Ant1    | 2480           | 30~1000           | -3.27            | -55.17       | ≤-23.27     | PASS    |
| DH5       | Ant1    | 2480           | 1000~26500        | -3.27            | -44.32       | ≤-23.27     | PASS    |
| 2DH5      | Ant1    | 2402           | 0~Reference       | -2.89            | -2.89        | ---         | PASS    |
| 2DH5      | Ant1    | 2402           | 30~1000           | -2.89            | -54.22       | ≤-22.89     | PASS    |
| 2DH5      | Ant1    | 2402           | 1000~26500        | -2.89            | -43.87       | ≤-22.89     | PASS    |
| 2DH5      | Ant1    | 2441           | 0~Reference       | -8.05            | -8.05        | ---         | PASS    |
| 2DH5      | Ant1    | 2441           | 30~1000           | -8.05            | -53.62       | ≤-28.05     | PASS    |
| 2DH5      | Ant1    | 2441           | 1000~26500        | -8.05            | -43.82       | ≤-28.05     | PASS    |
| 2DH5      | Ant1    | 2480           | 0~Reference       | -9.07            | -9.07        | ---         | PASS    |
| 2DH5      | Ant1    | 2480           | 30~1000           | -9.07            | -52.1        | ≤-29.07     | PASS    |
| 2DH5      | Ant1    | 2480           | 1000~26500        | -9.07            | -44.16       | ≤-29.07     | PASS    |
| 3DH5      | Ant1    | 2402           | 0~Reference       | -2.56            | -2.56        | ---         | PASS    |
| 3DH5      | Ant1    | 2402           | 30~1000           | -2.56            | -51.44       | ≤-22.56     | PASS    |
| 3DH5      | Ant1    | 2402           | 1000~26500        | -2.56            | -44.19       | ≤-22.56     | PASS    |
| 3DH5      | Ant1    | 2441           | 0~Reference       | -7.60            | -7.60        | ---         | PASS    |
| 3DH5      | Ant1    | 2441           | 30~1000           | -7.60            | -53.5        | ≤-27.6      | PASS    |
| 3DH5      | Ant1    | 2441           | 1000~26500        | -7.60            | -43.5        | ≤-27.6      | PASS    |
| 3DH5      | Ant1    | 2480           | 0~Reference       | -2.37            | -2.37        | ---         | PASS    |
| 3DH5      | Ant1    | 2480           | 30~1000           | -2.37            | -54.38       | ≤-22.37     | PASS    |
| 3DH5      | Ant1    | 2480           | 1000~26500        | -2.37            | -43.19       | ≤-22.37     | PASS    |



## Test Graphs



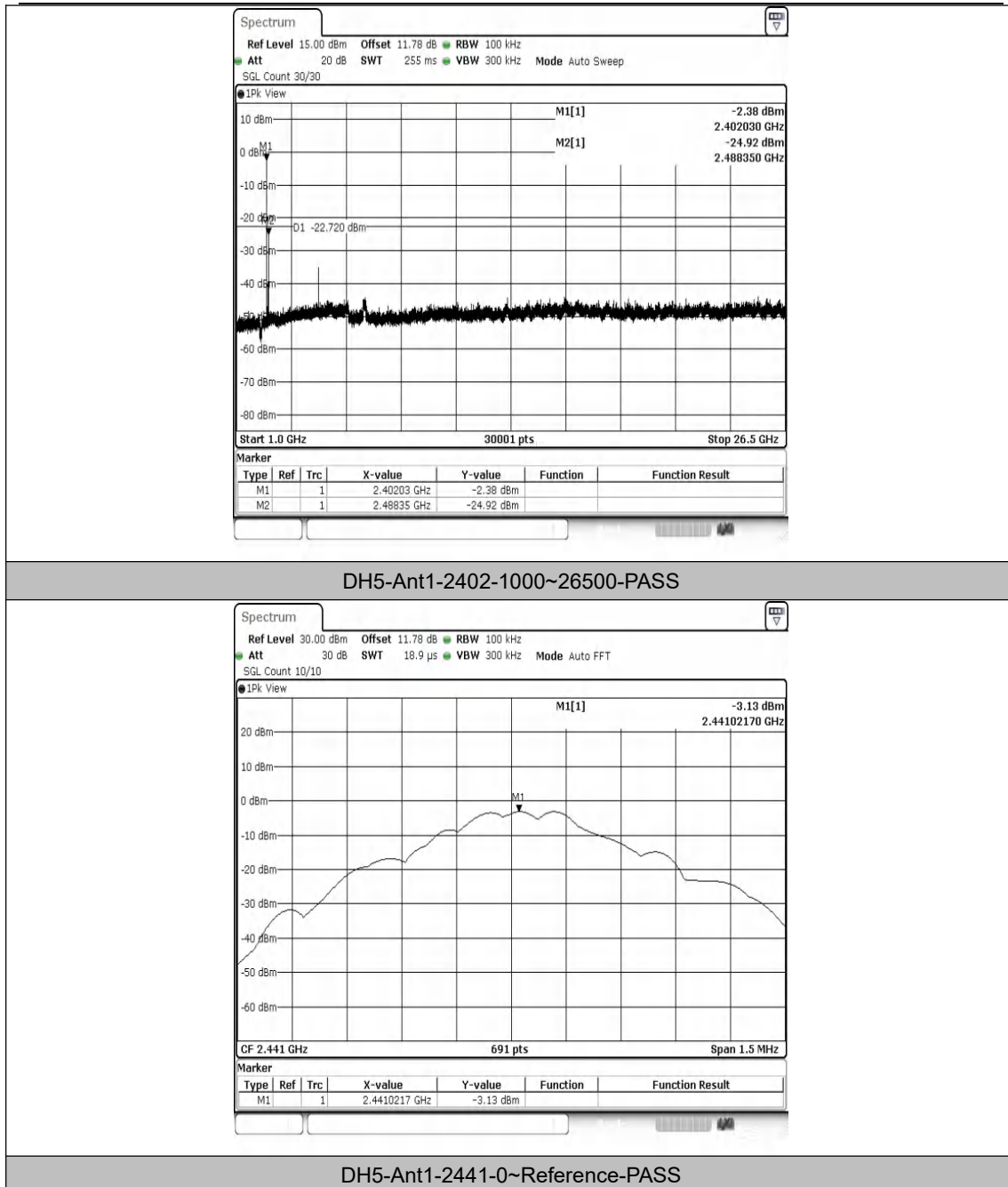
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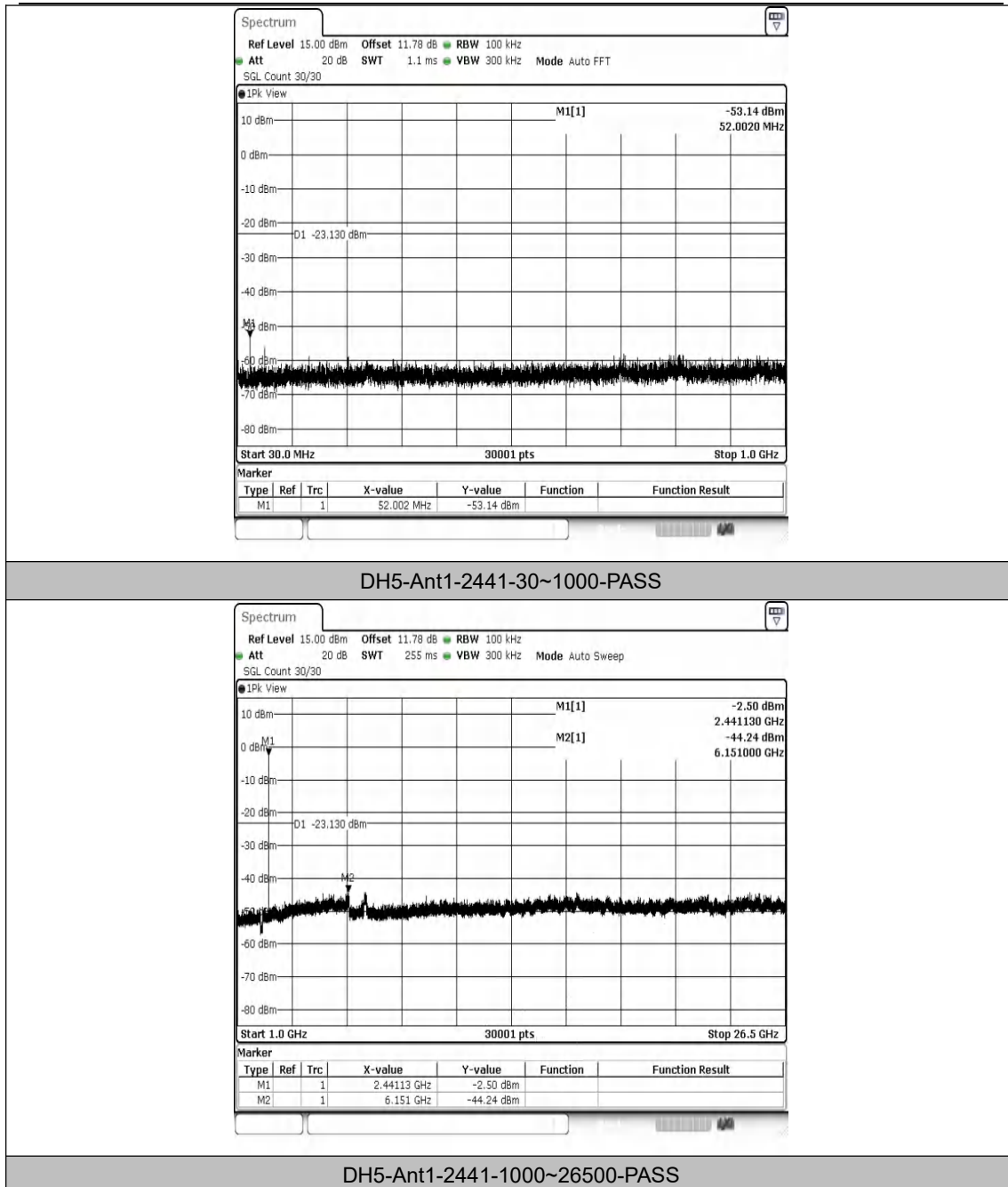
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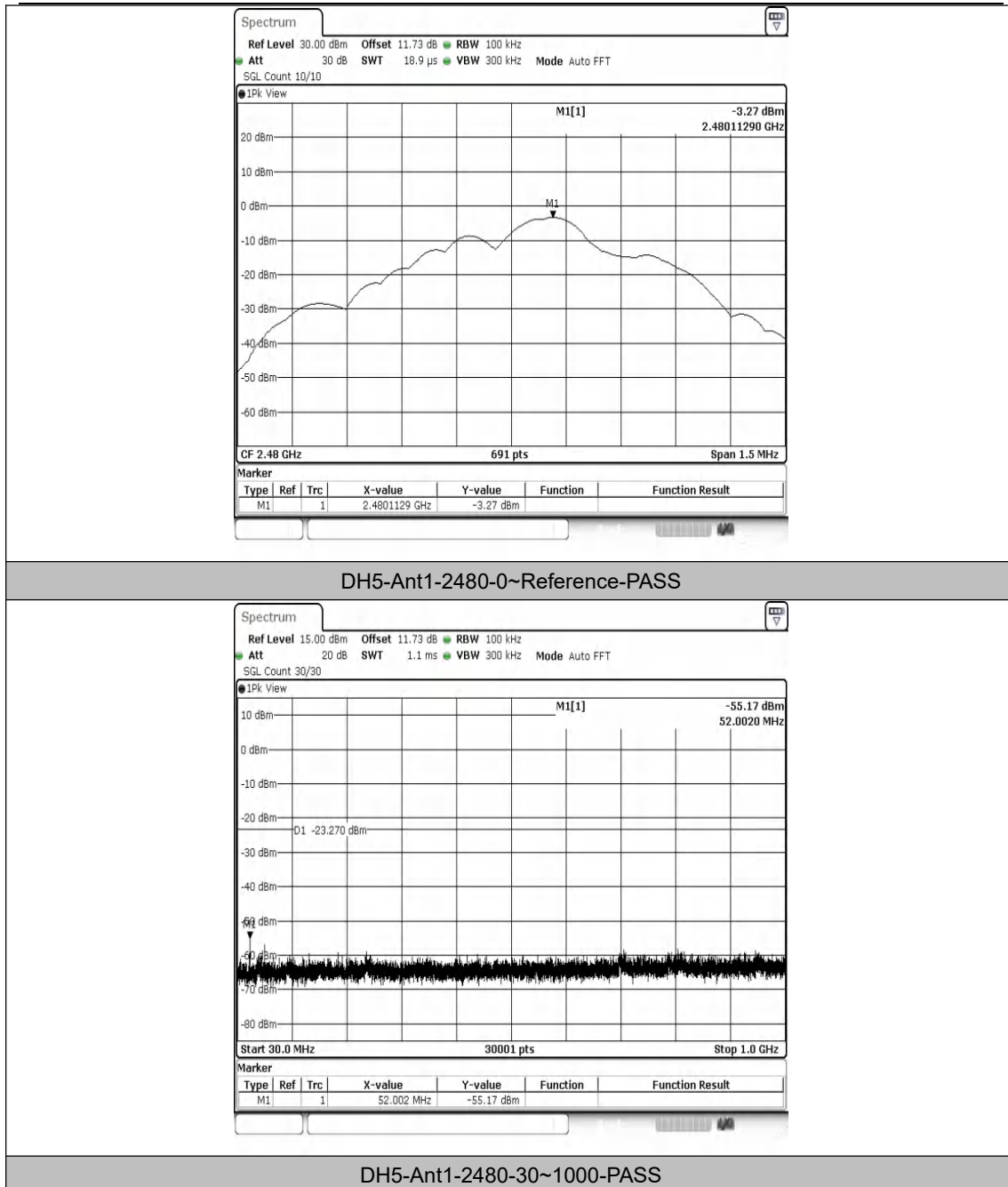


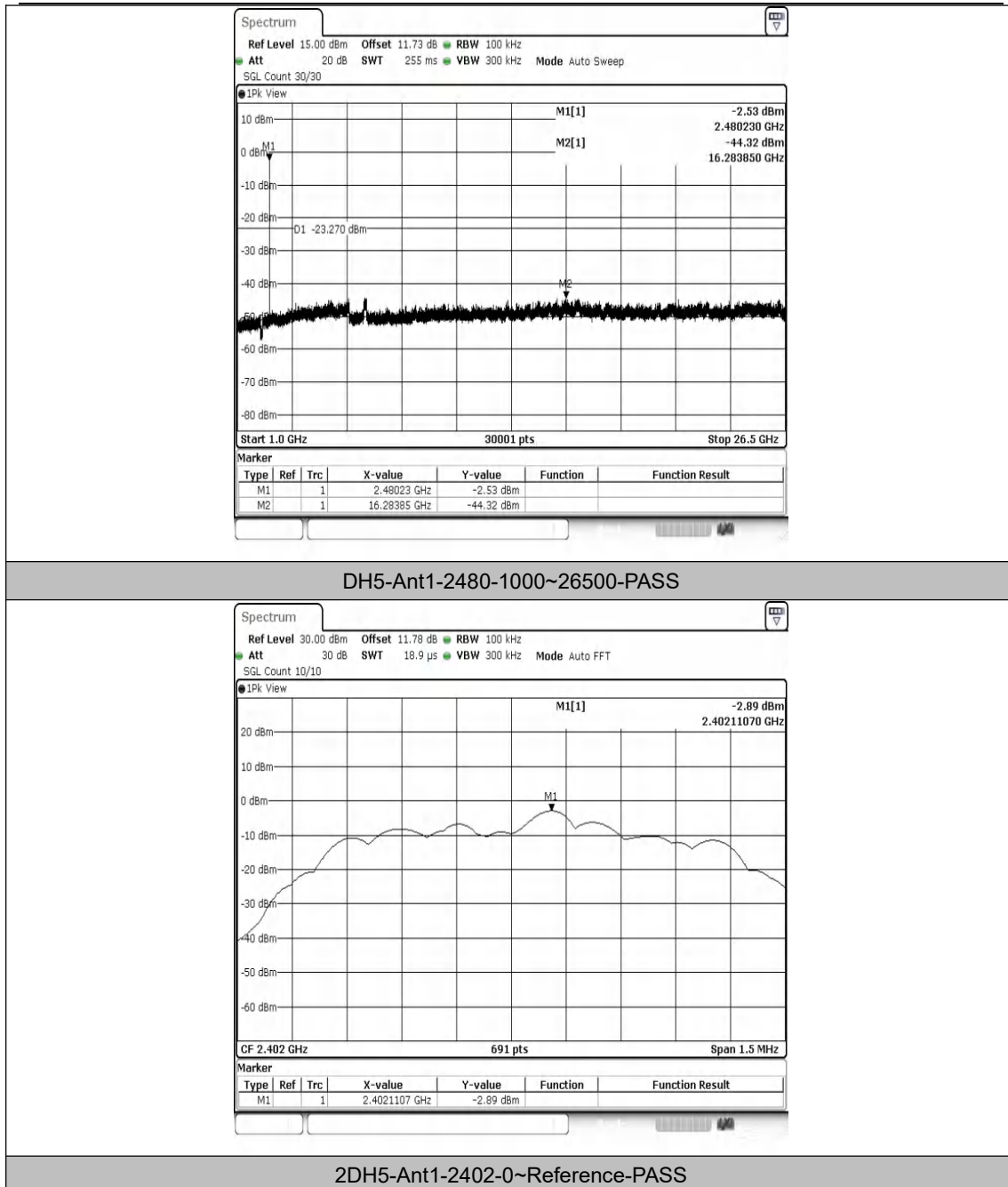


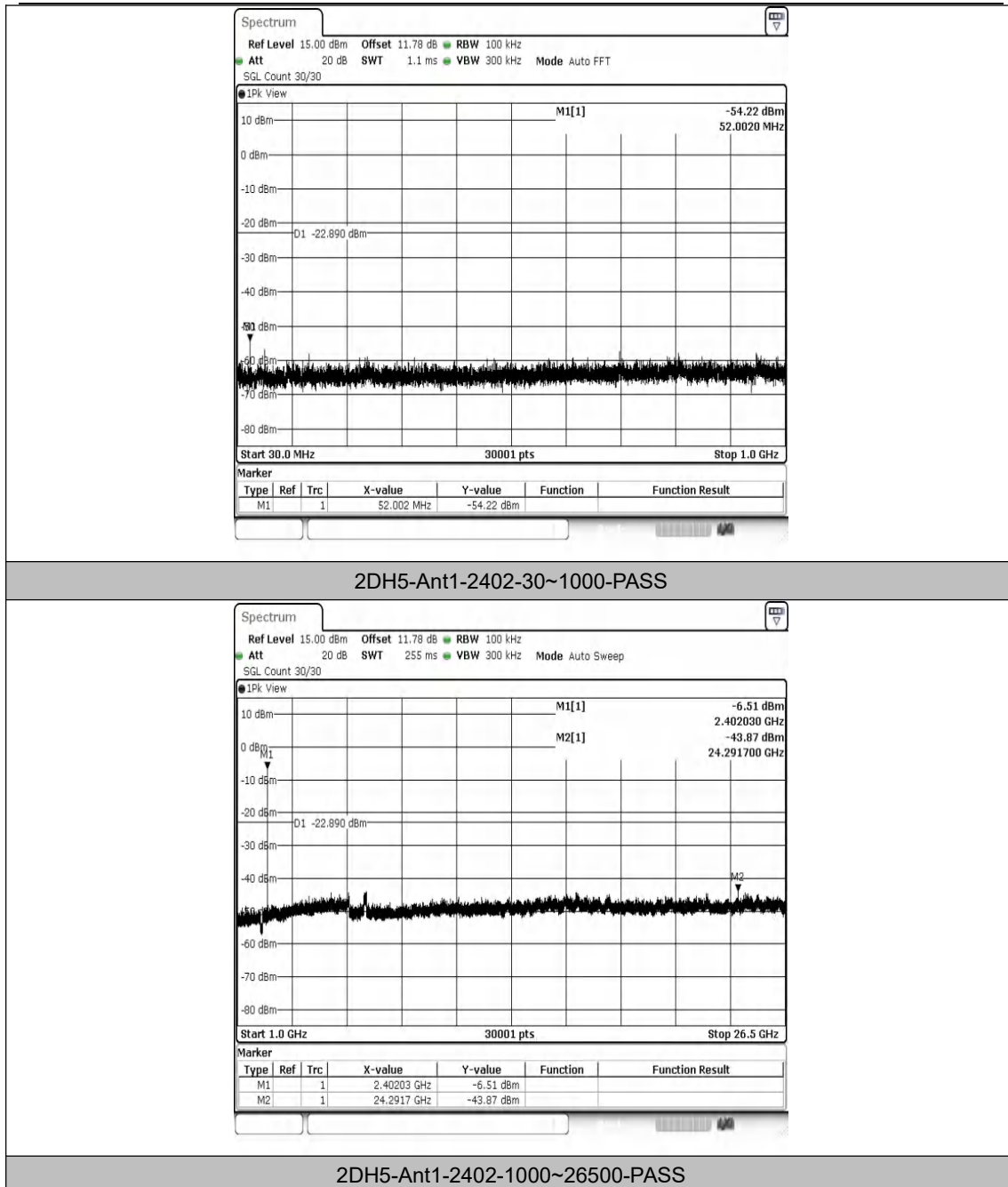


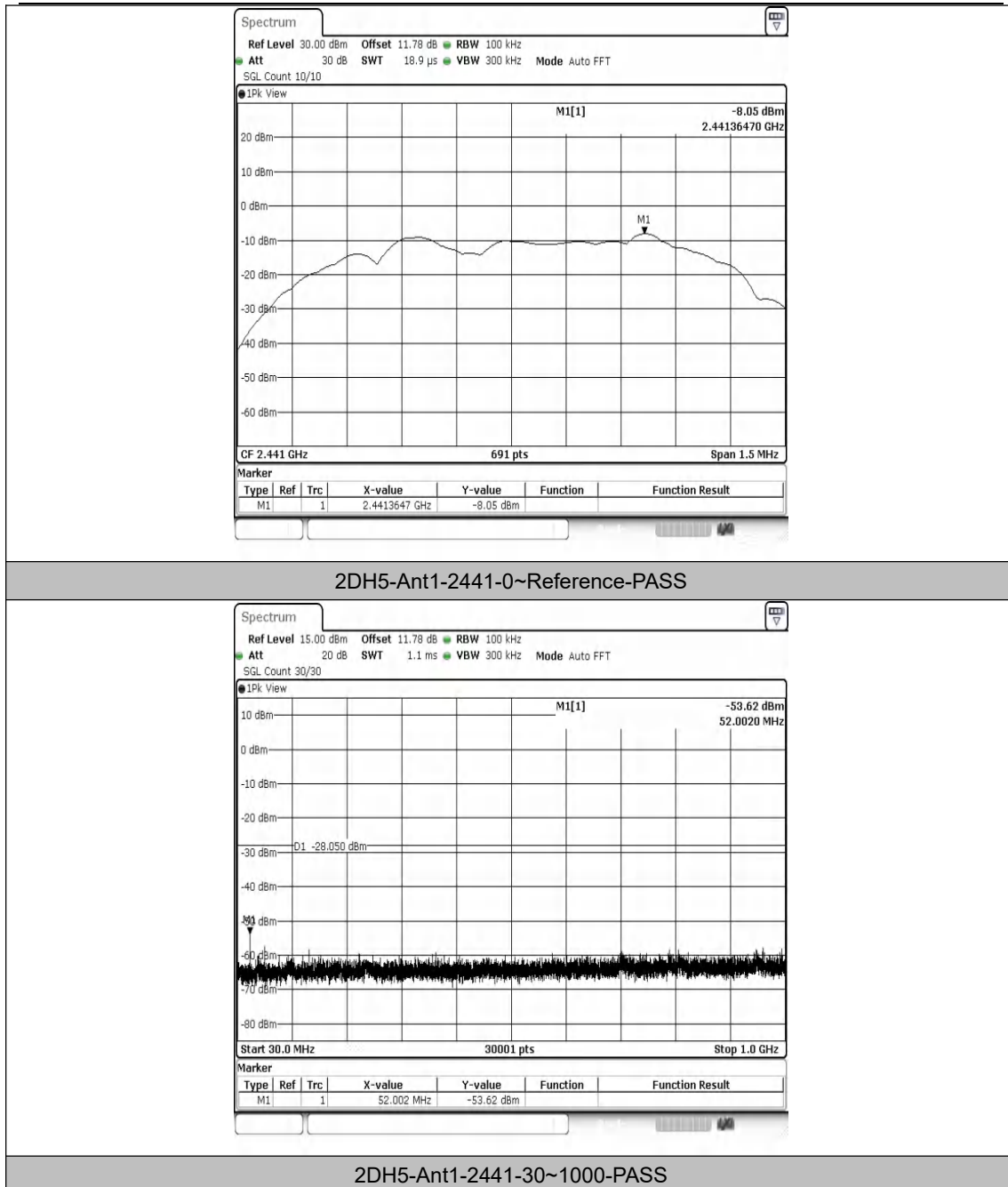


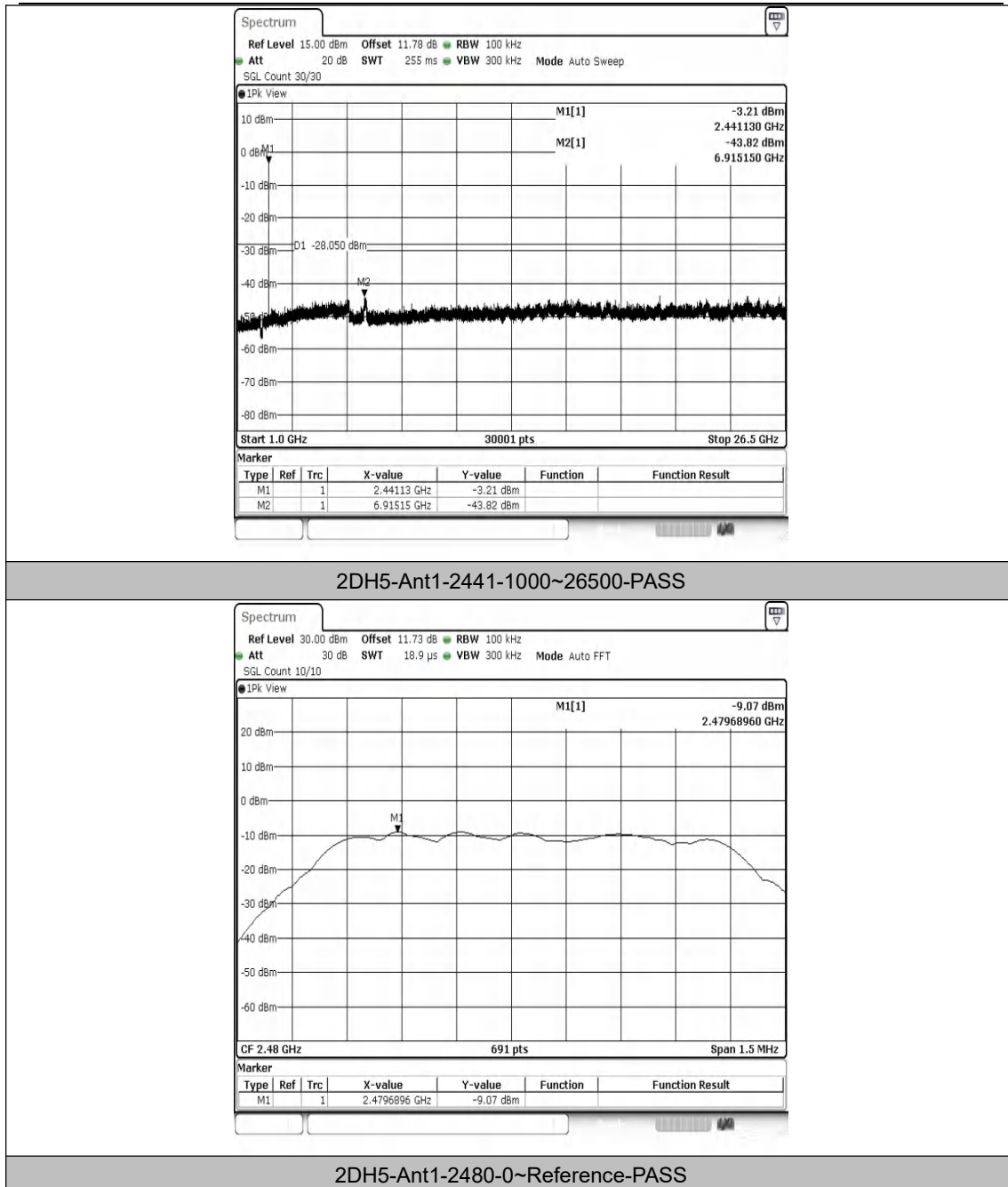




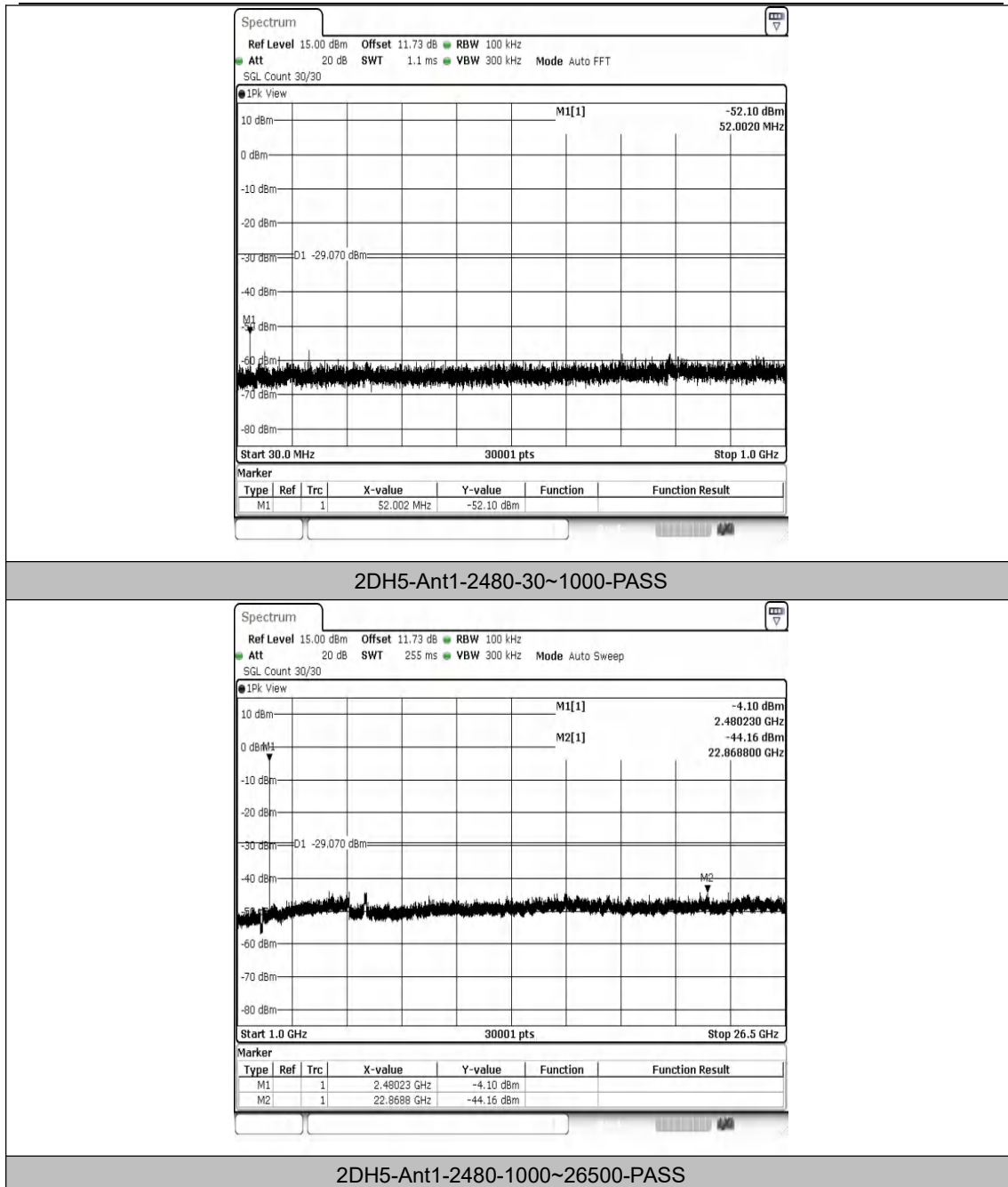




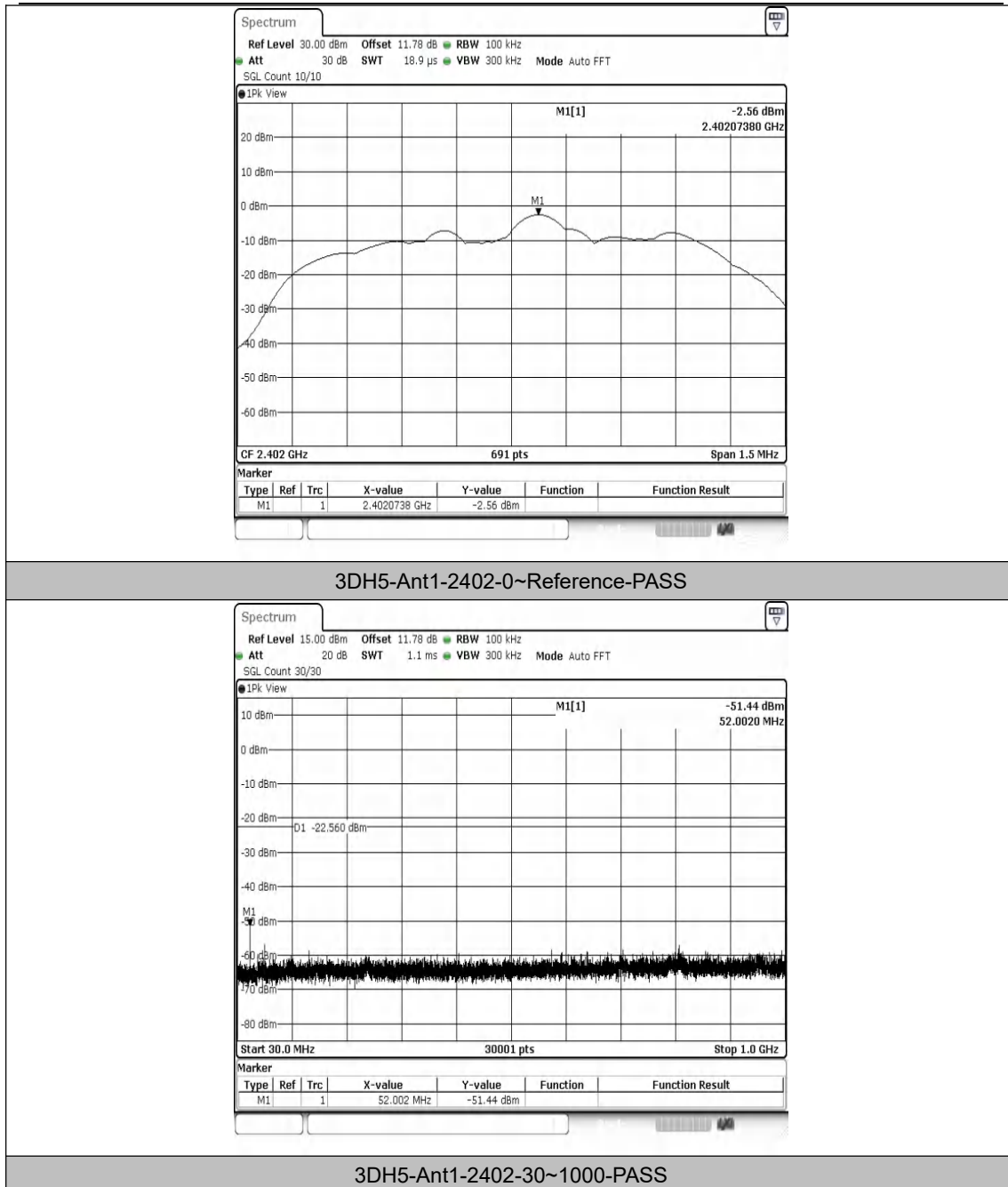


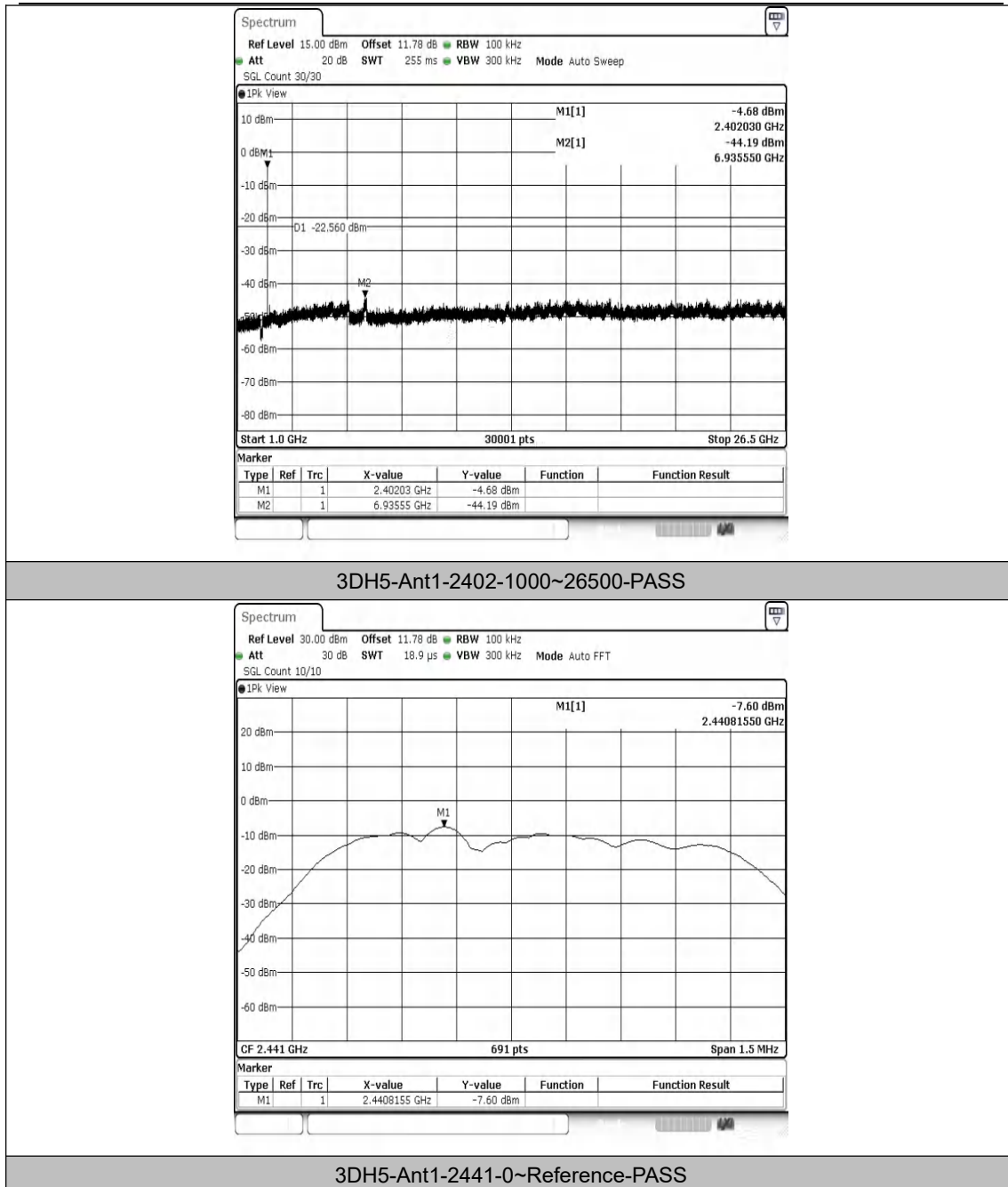


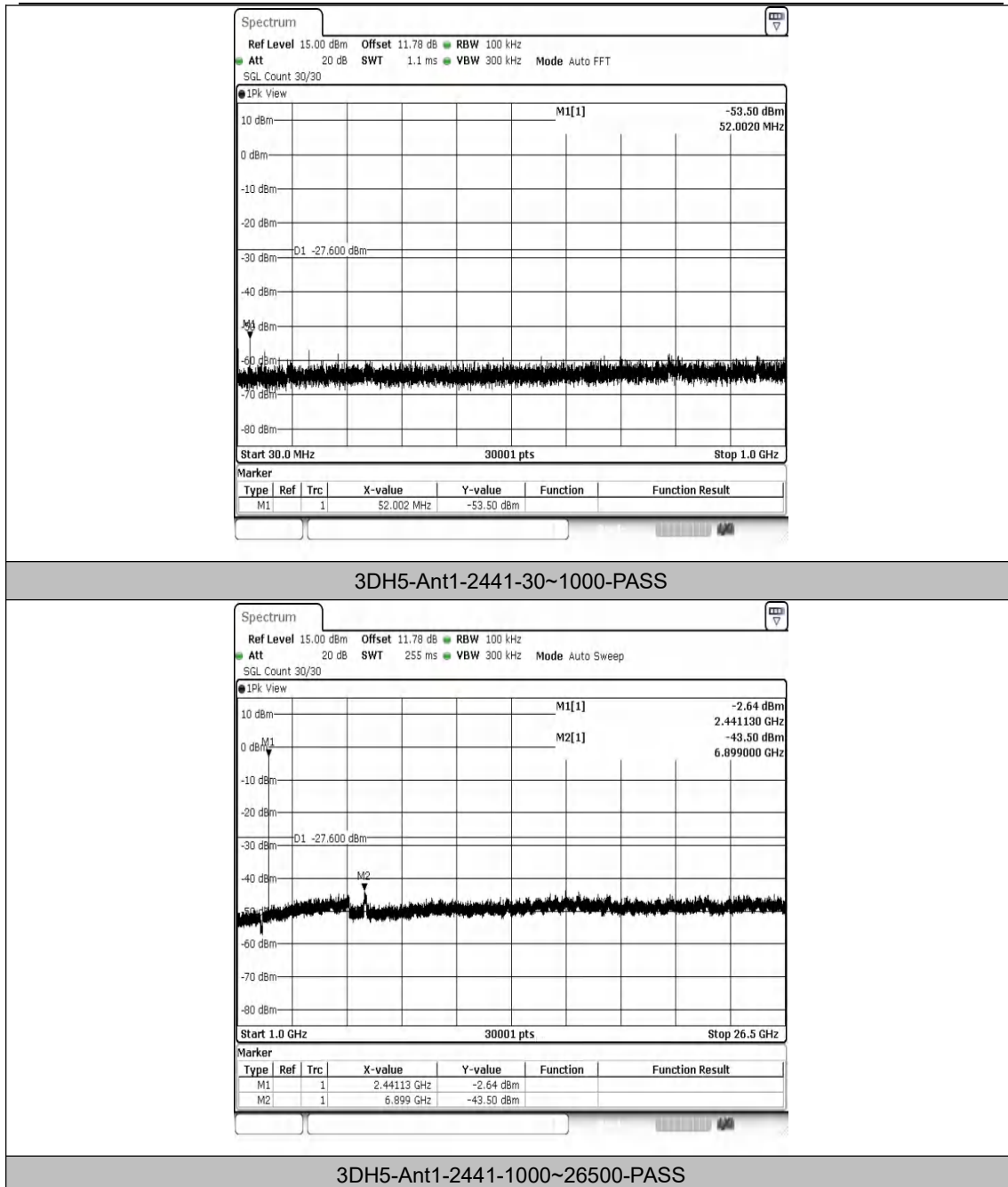


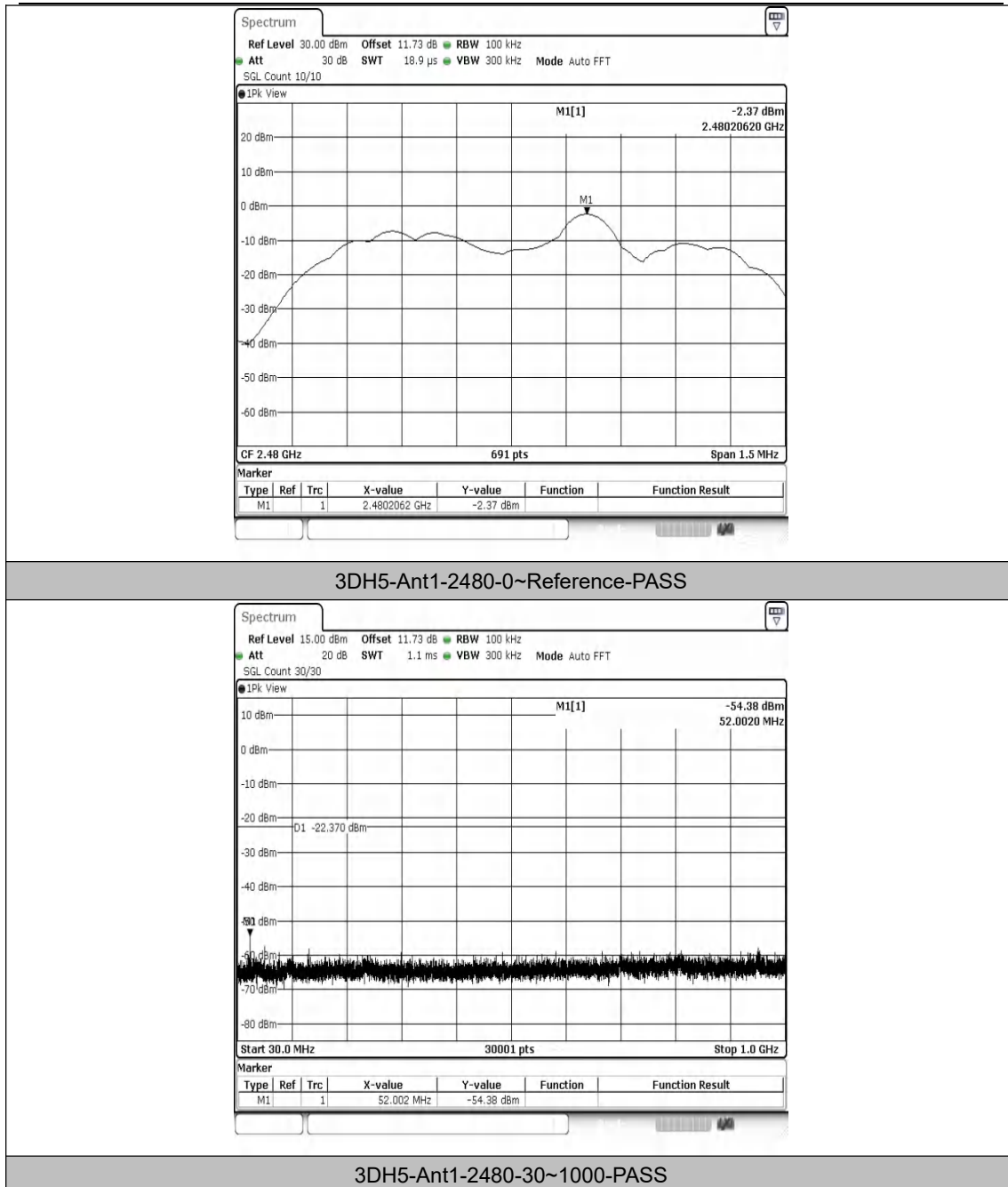


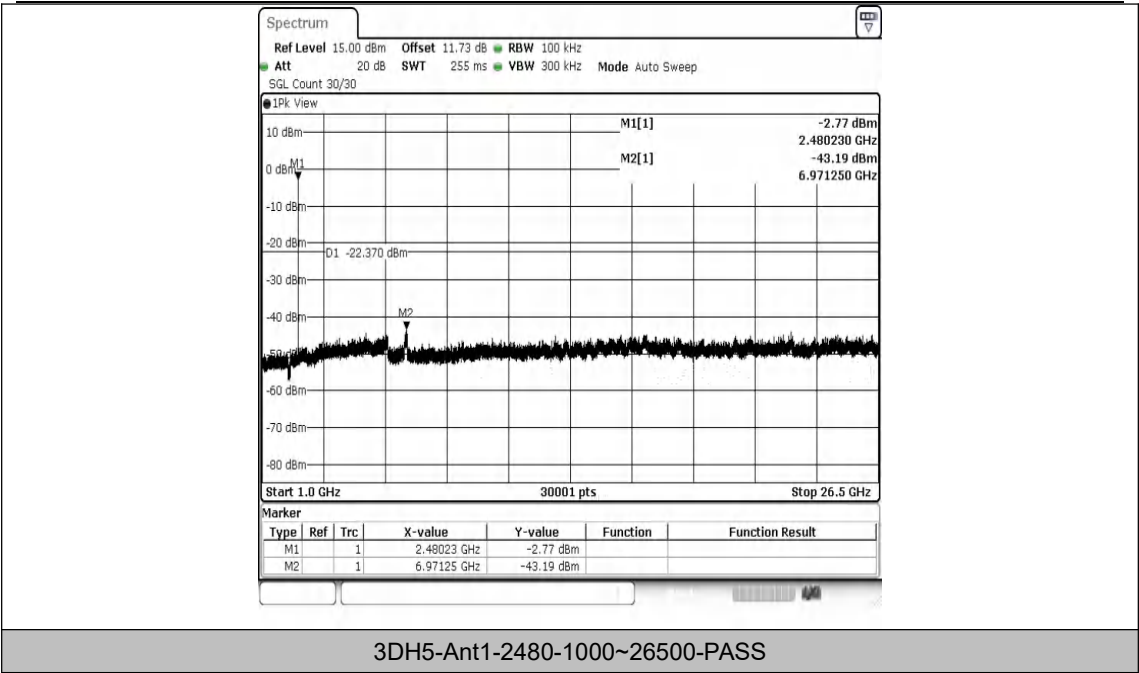












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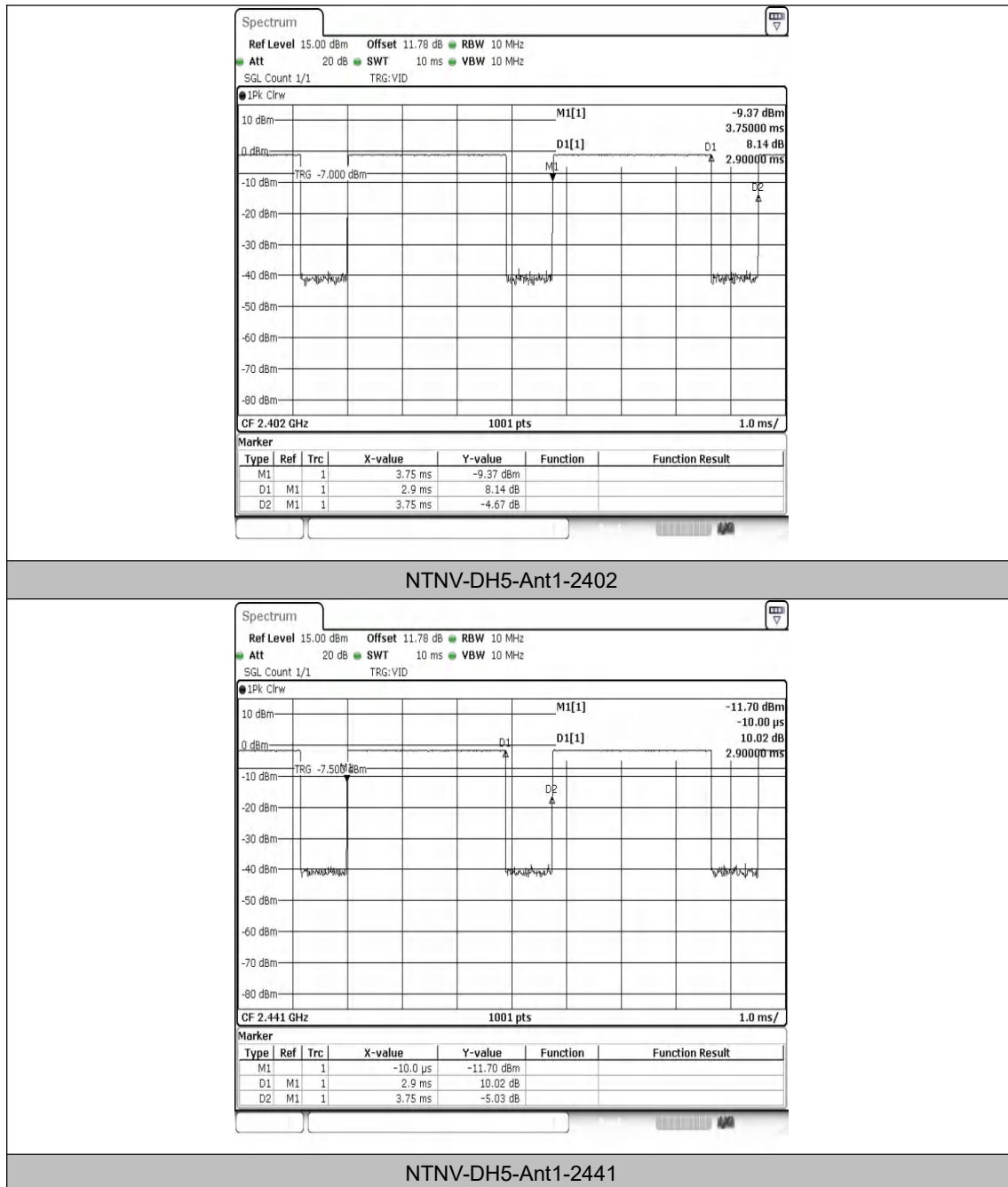
## Appendix I: Duty Cycle

### Test Result

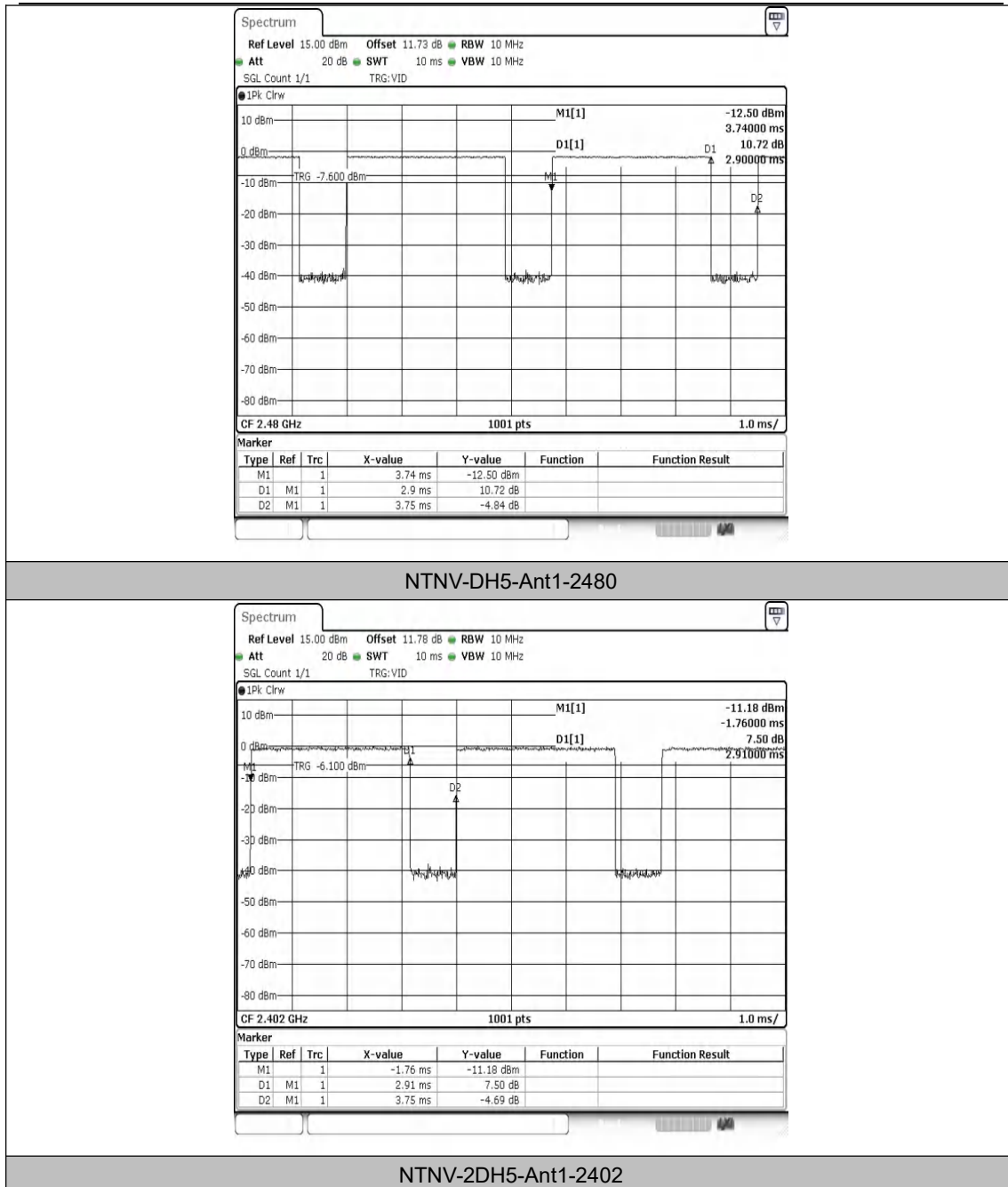
| Test Mode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| DH5       | Ant1    | 2402           | 2.90         | 3.75        | 77.33          | 1.12                  |
| DH5       | Ant1    | 2441           | 2.90         | 3.75        | 77.33          | 1.12                  |
| DH5       | Ant1    | 2480           | 2.90         | 3.75        | 77.33          | 1.12                  |
| 2DH5      | Ant1    | 2402           | 2.91         | 3.75        | 77.60          | 1.10                  |
| 2DH5      | Ant1    | 2441           | 2.91         | 3.76        | 77.39          | 1.11                  |
| 2DH5      | Ant1    | 2480           | 2.91         | 3.76        | 77.39          | 1.11                  |
| 3DH5      | Ant1    | 2402           | 2.91         | 3.75        | 77.60          | 1.10                  |
| 3DH5      | Ant1    | 2441           | 2.91         | 3.75        | 77.60          | 1.10                  |
| 3DH5      | Ant1    | 2480           | 2.91         | 3.75        | 77.60          | 1.10                  |

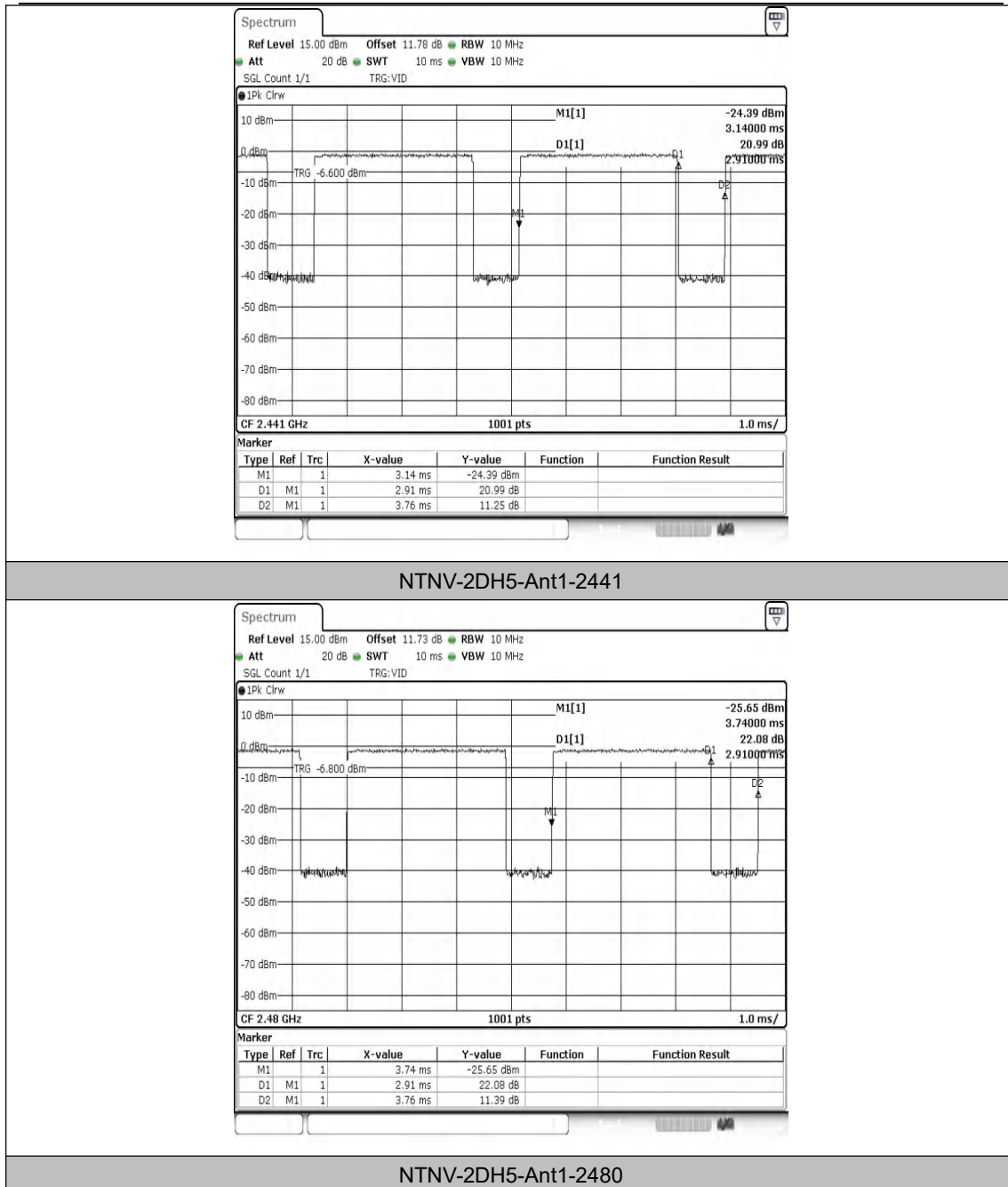


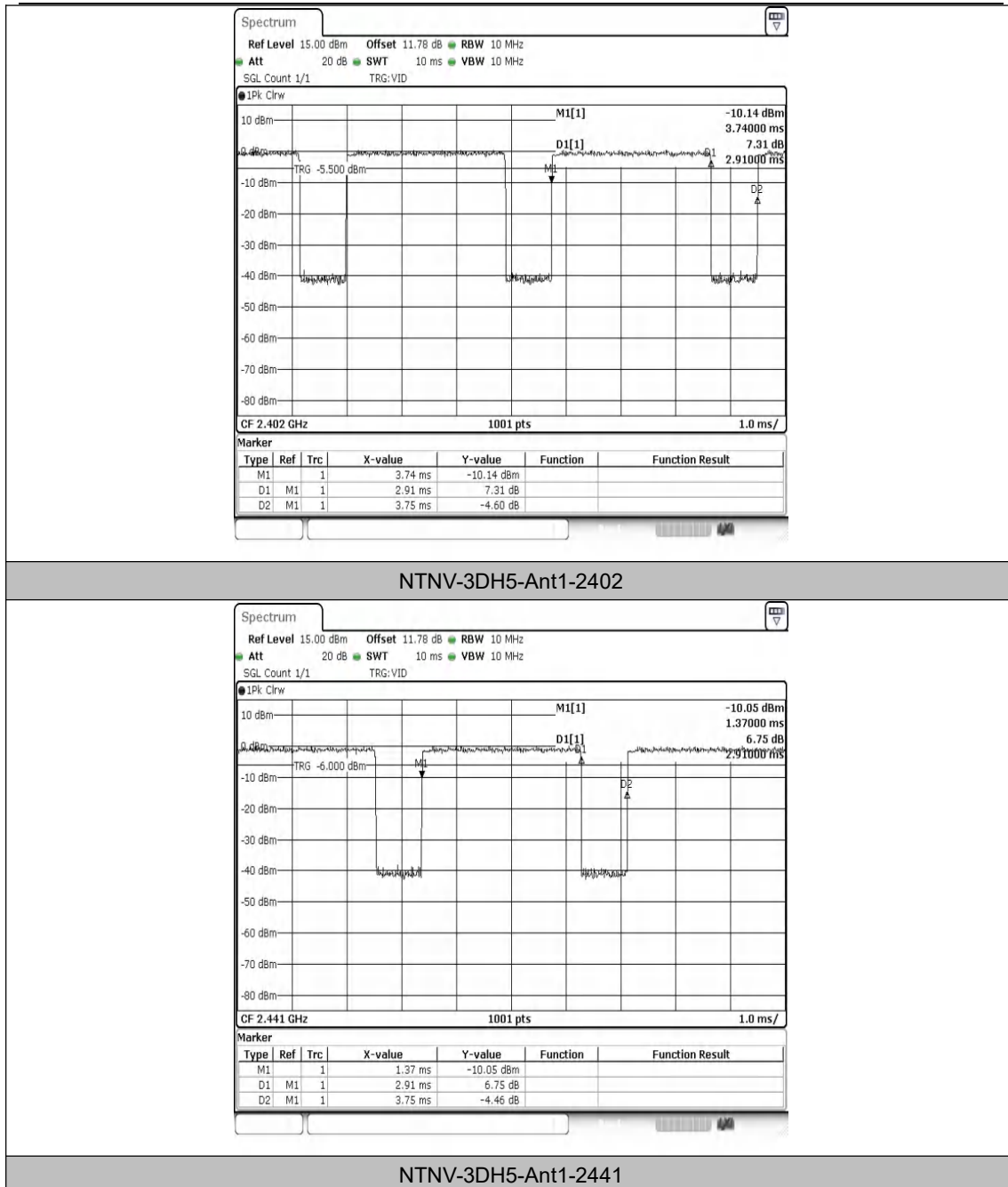
## Test Graphs

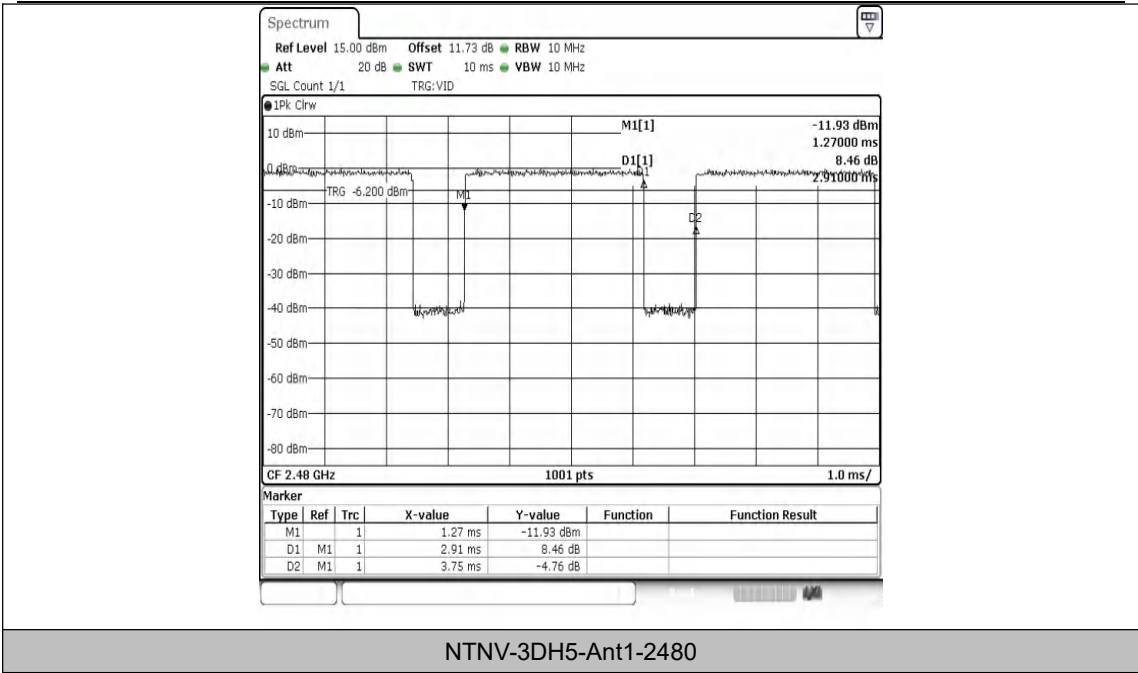












---End---

