



## Appendix C

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: TicNote

Trade Mark: TicNote

Test Model: NE-79

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 24.6° C     |
| Relative Humidity: | 52.4%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Emiya lin   |
| Supervised by:     | Simba Haung |



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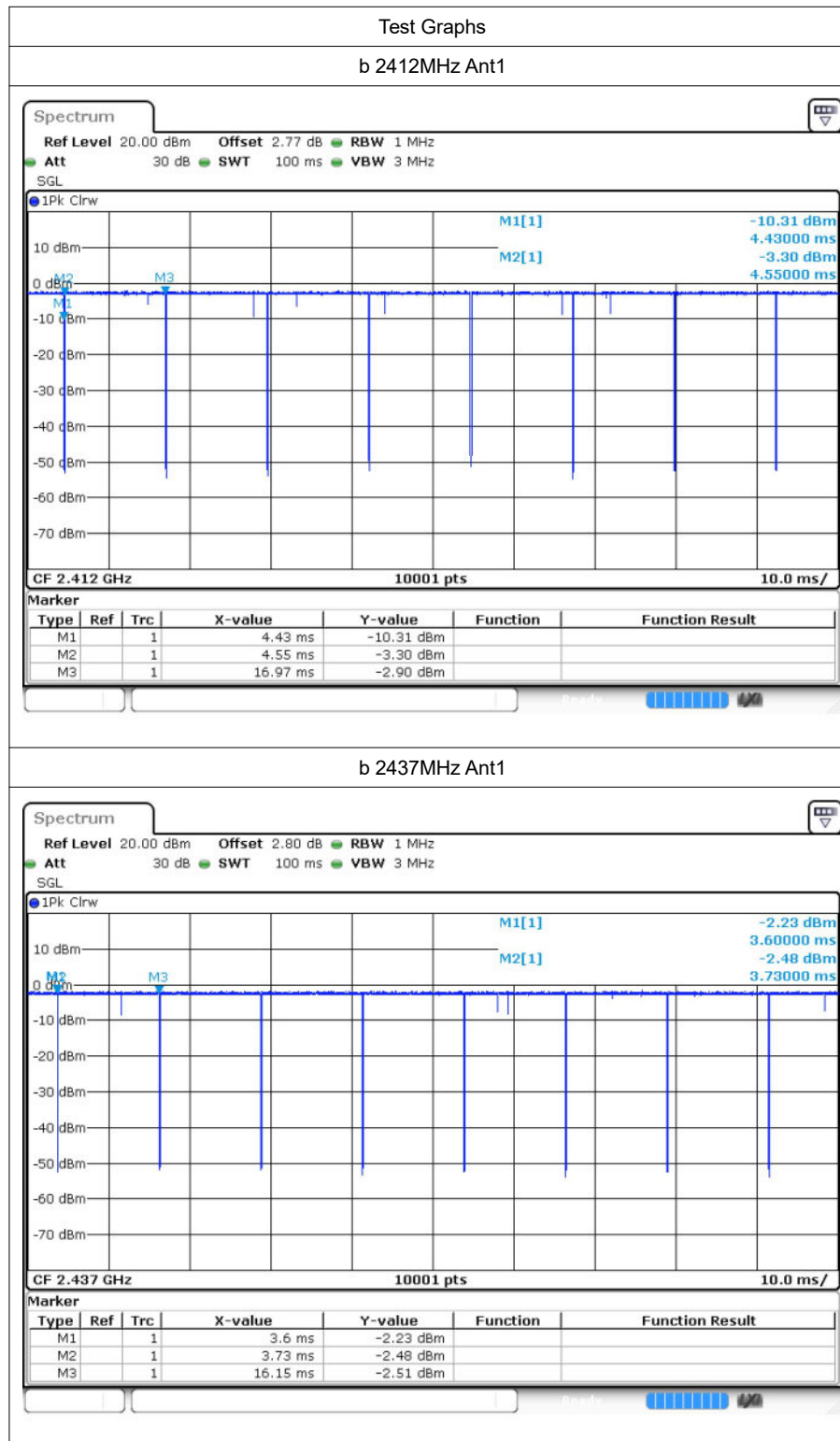


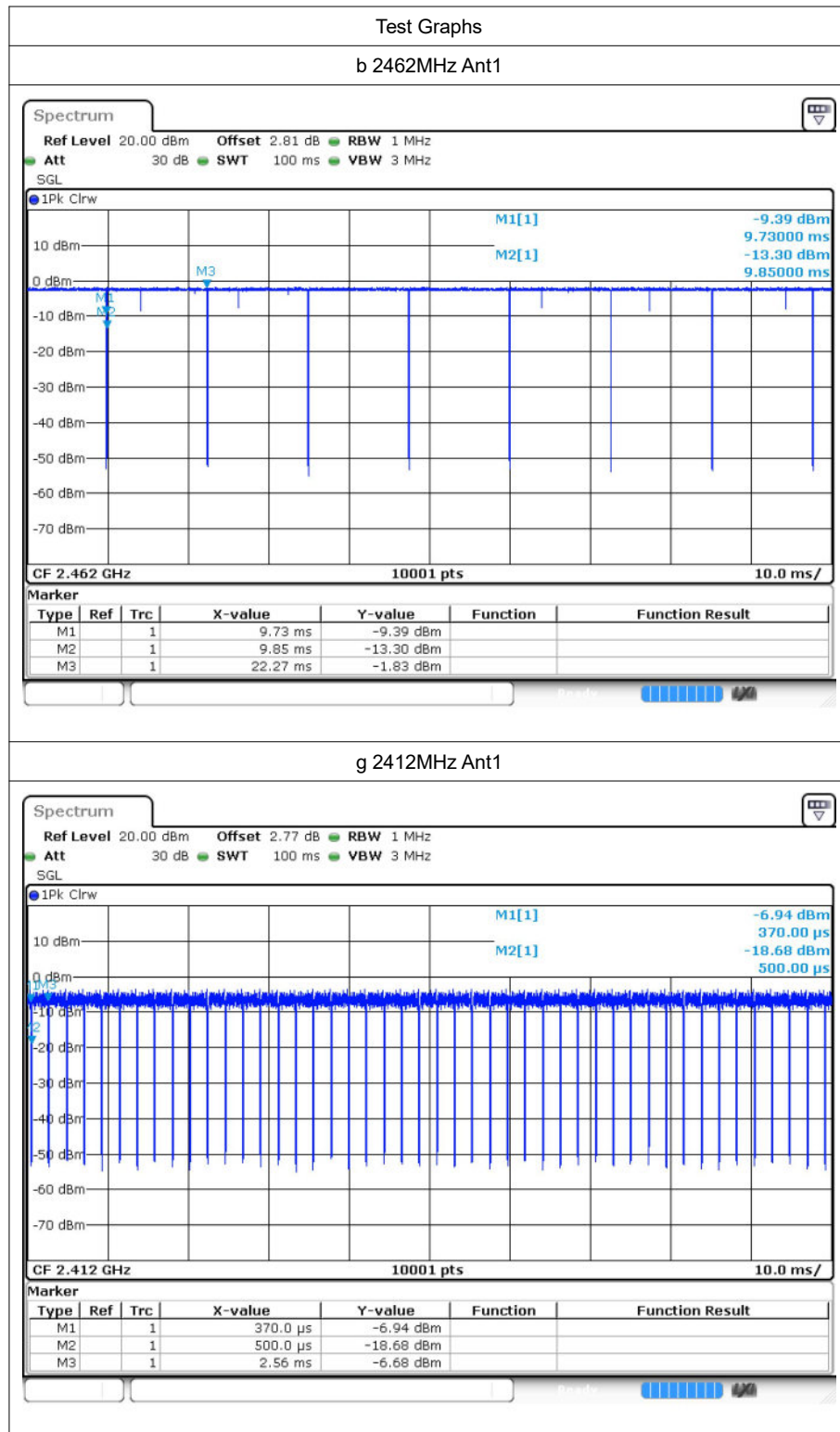
# 1 Duty Cycle

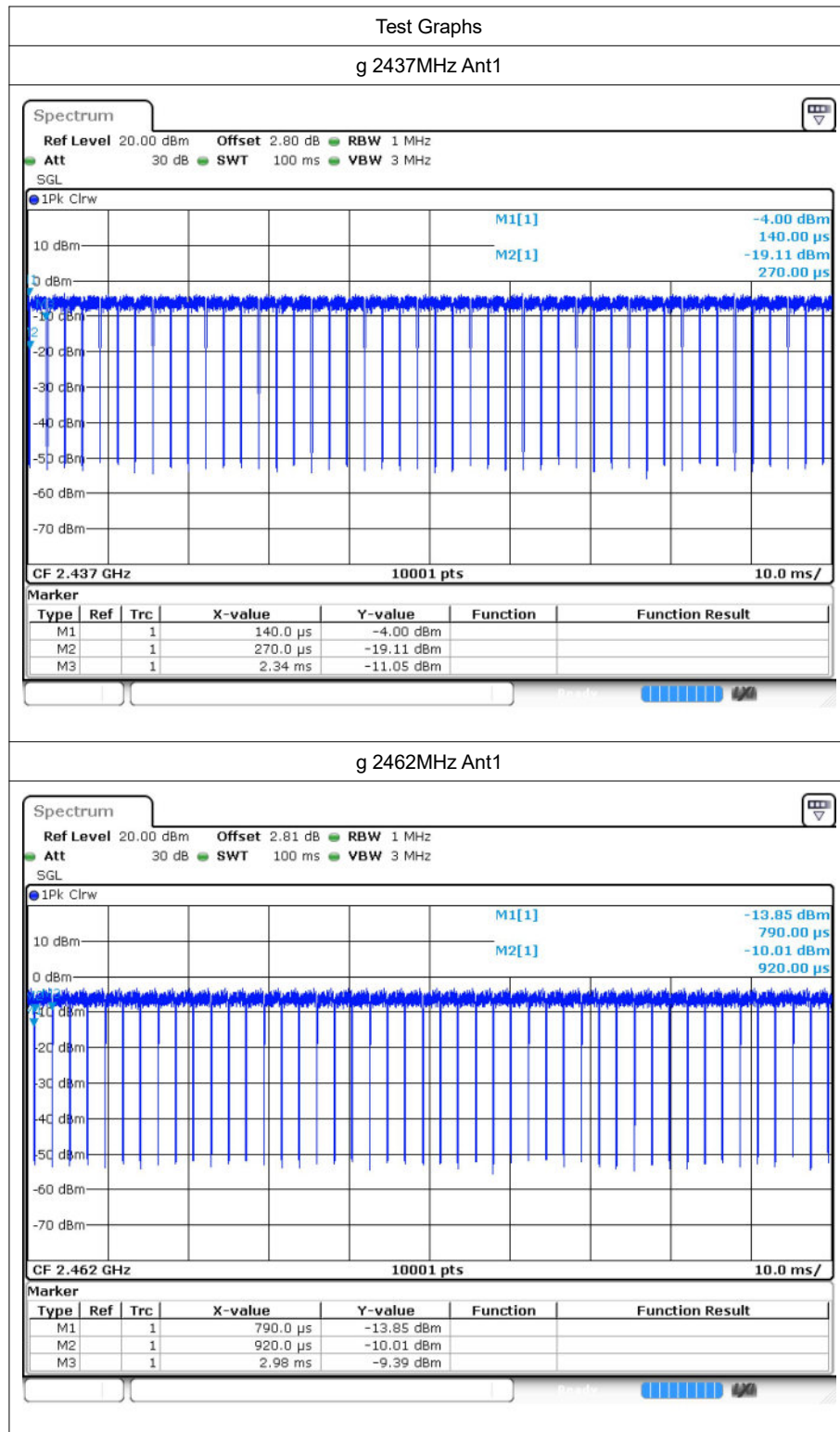
## 1.1 Test Result

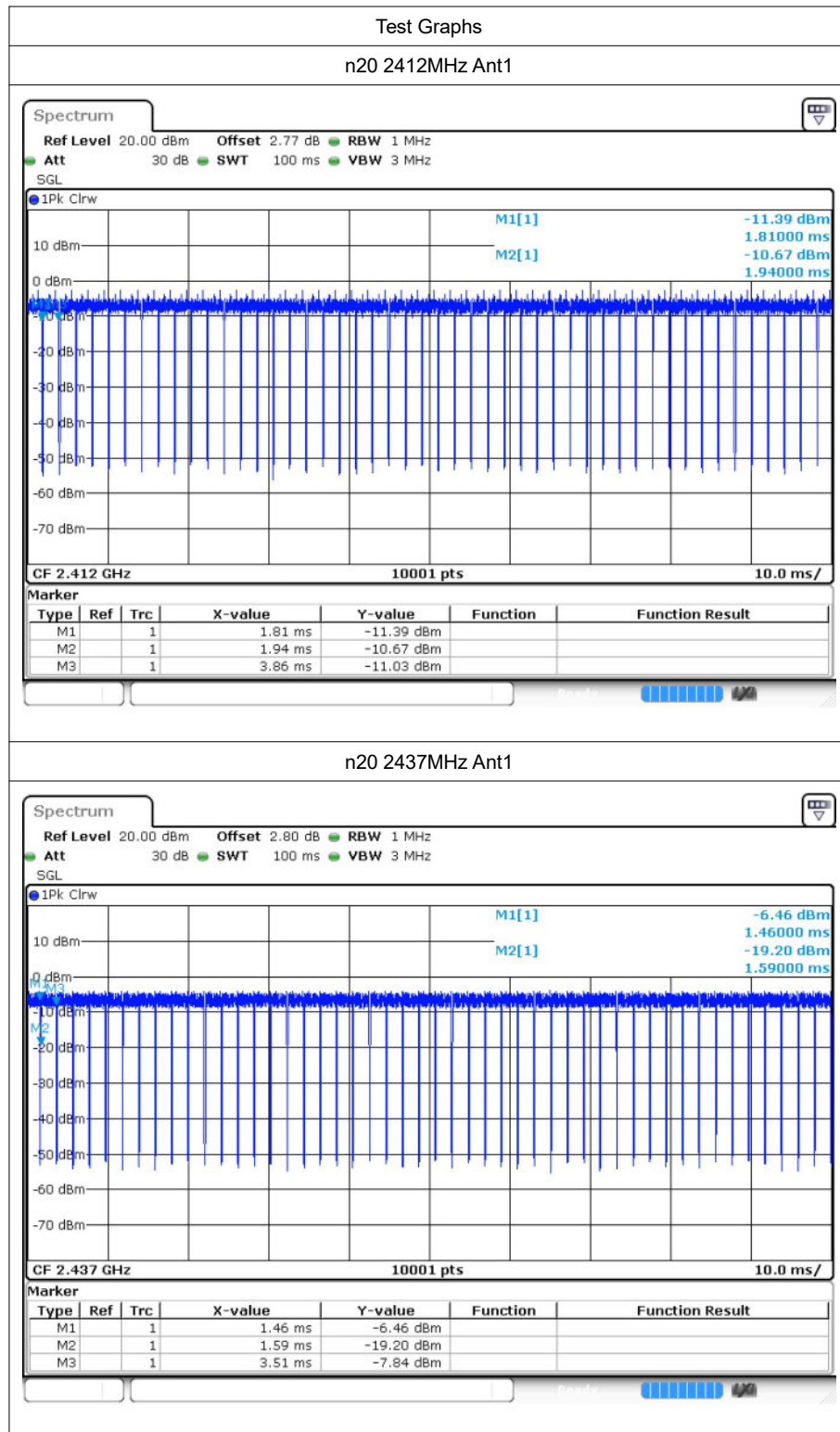
| Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor | 1/T (kHz) |
|------|-----------------|---------|----------------|-------------------|-----------|
| b    | 2412            | Ant1    | 99.05          | 0.04              | 0.08      |
| b    | 2437            | Ant1    | 99.05          | 0.04              | 0.08      |
| b    | 2462            | Ant1    | 99.05          | 0.04              | 0.08      |
| g    | 2412            | Ant1    | 94.49          | 0.25              | 0.49      |
| g    | 2437            | Ant1    | 94.51          | 0.25              | 0.48      |
| g    | 2462            | Ant1    | 94.5           | 0.25              | 0.49      |
| n20  | 2412            | Ant1    | 94.24          | 0.26              | 0.52      |
| n20  | 2437            | Ant1    | 94.17          | 0.26              | 0.52      |
| n20  | 2462            | Ant1    | 94.14          | 0.26              | 0.52      |
| n40  | 2422            | Ant1    | 86.85          | 0.61              | 1.09      |
| n40  | 2437            | Ant1    | 86.85          | 0.61              | 1.09      |
| n40  | 2452            | Ant1    | 86.83          | 0.61              | 1.08      |

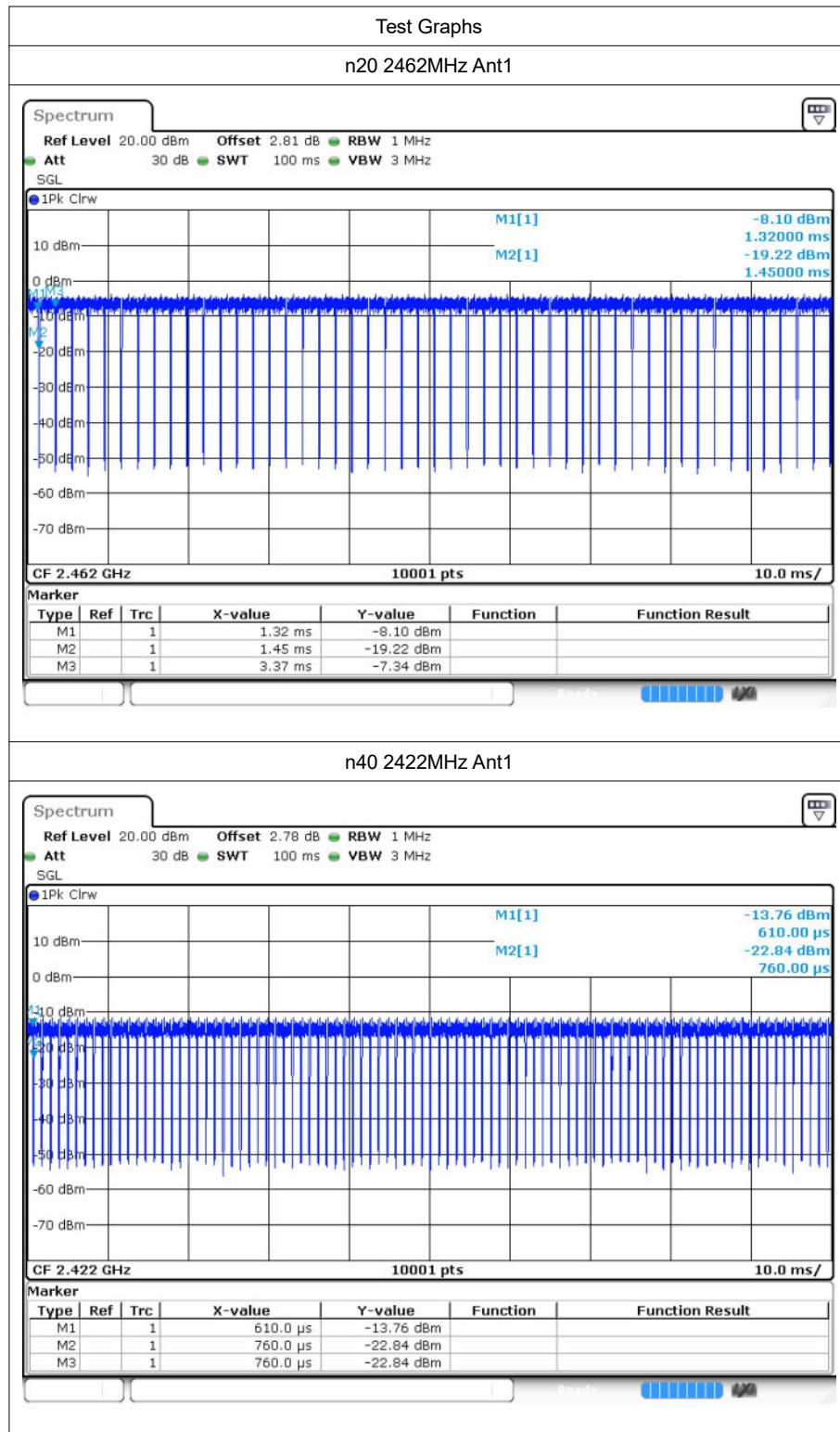
## 1.2 Test Graphs

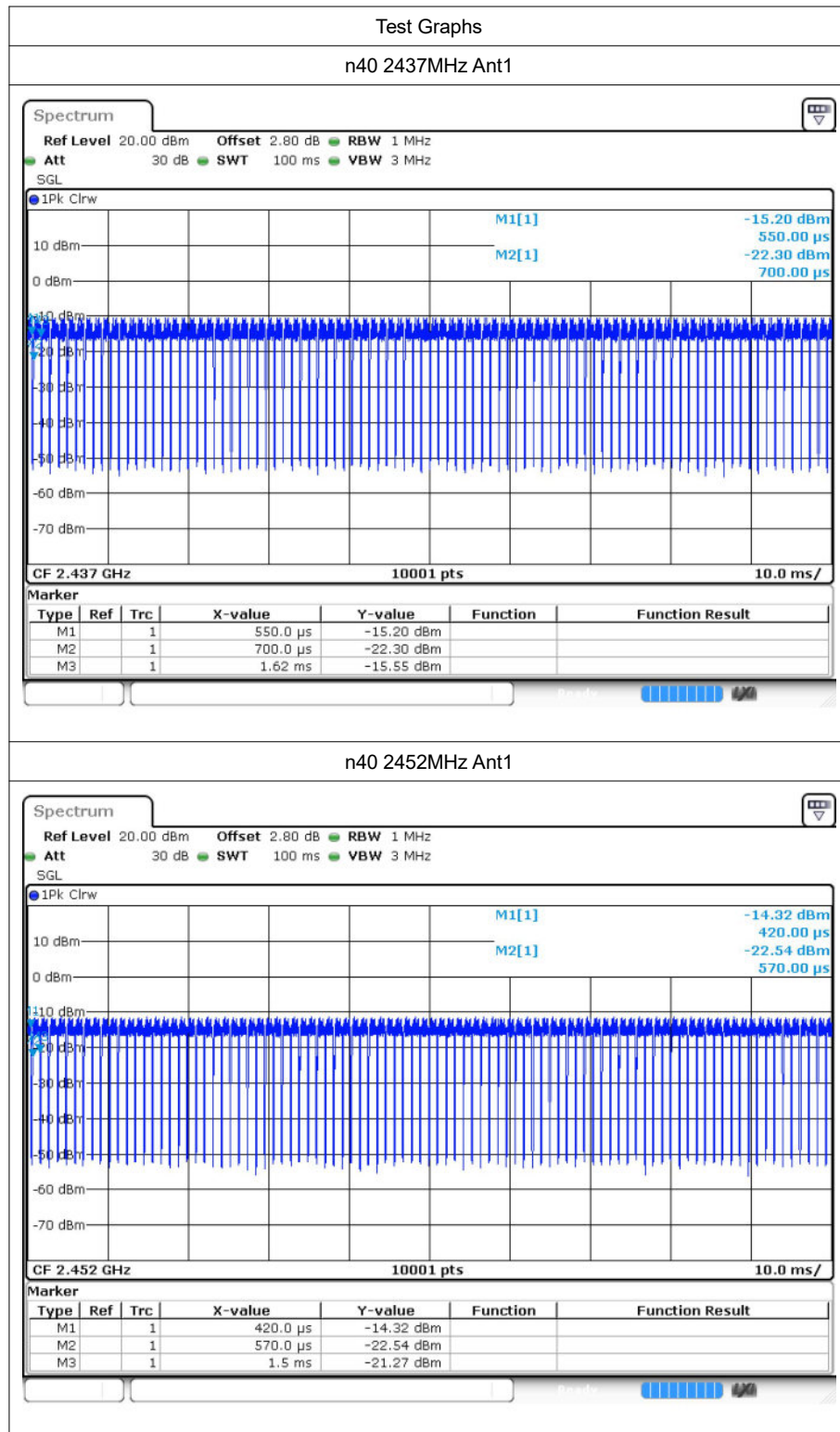












## 2 Maximum Conducted Output Power

### 2.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|-------------|---------|
| b    | 2412            | Ant1    | 6.83                  | 30          | Pass    |
| b    | 2437            | Ant1    | 7.19                  | 30          | Pass    |
| b    | 2462            | Ant1    | 7.22                  | 30          | Pass    |
| g    | 2412            | Ant1    | 6.95                  | 30          | Pass    |
| g    | 2437            | Ant1    | 7.3                   | 30          | Pass    |
| g    | 2462            | Ant1    | 7.35                  | 30          | Pass    |
| n20  | 2412            | Ant1    | 6.8                   | 30          | Pass    |
| n20  | 2437            | Ant1    | 7.23                  | 30          | Pass    |
| n20  | 2462            | Ant1    | 7.25                  | 30          | Pass    |
| n40  | 2422            | Ant1    | 6.77                  | 30          | Pass    |
| n40  | 2437            | Ant1    | 6.8                   | 30          | Pass    |
| n40  | 2452            | Ant1    | 6.82                  | 30          | Pass    |

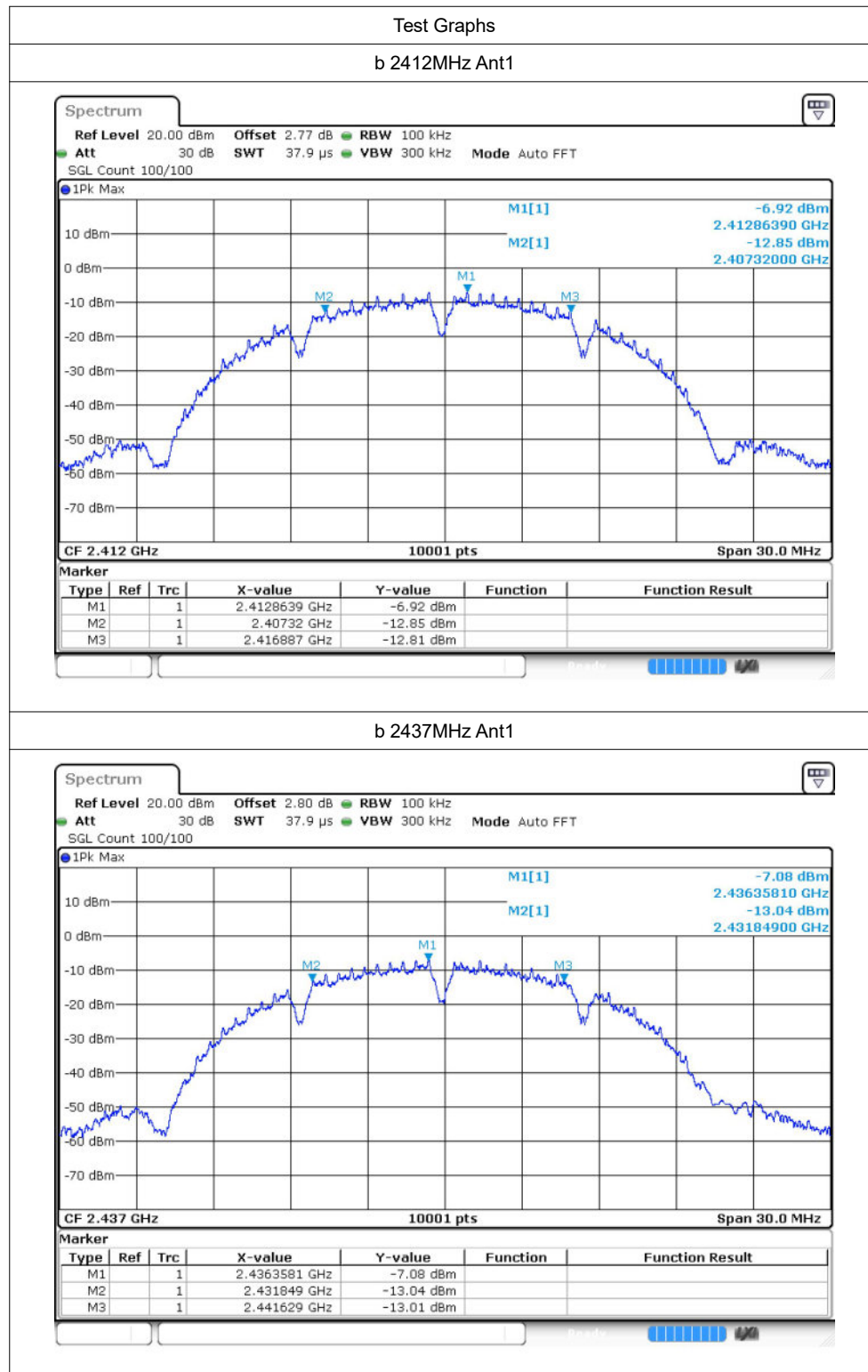


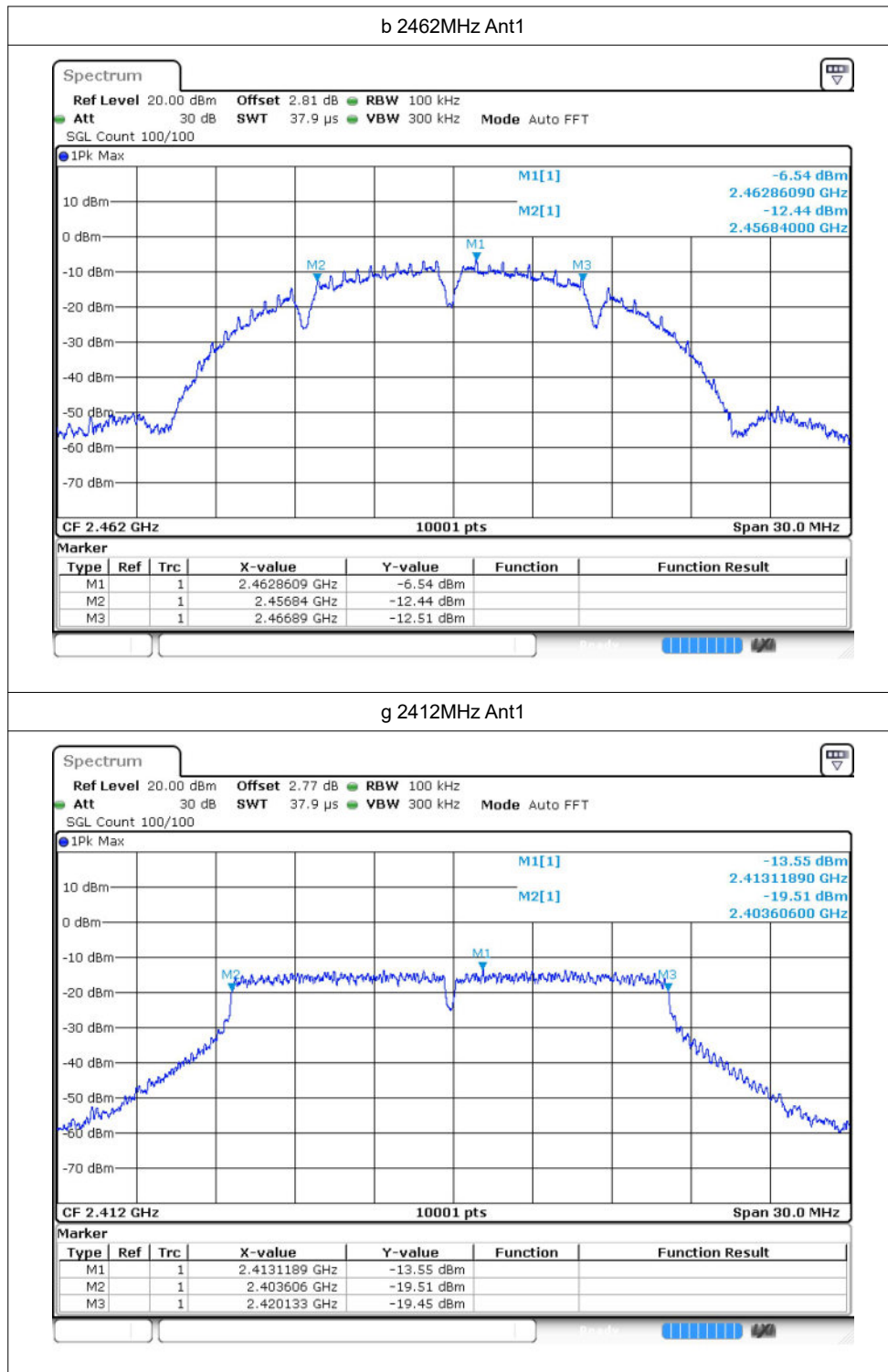
### 3 -6dB Bandwidth

#### 3.1 Test Result

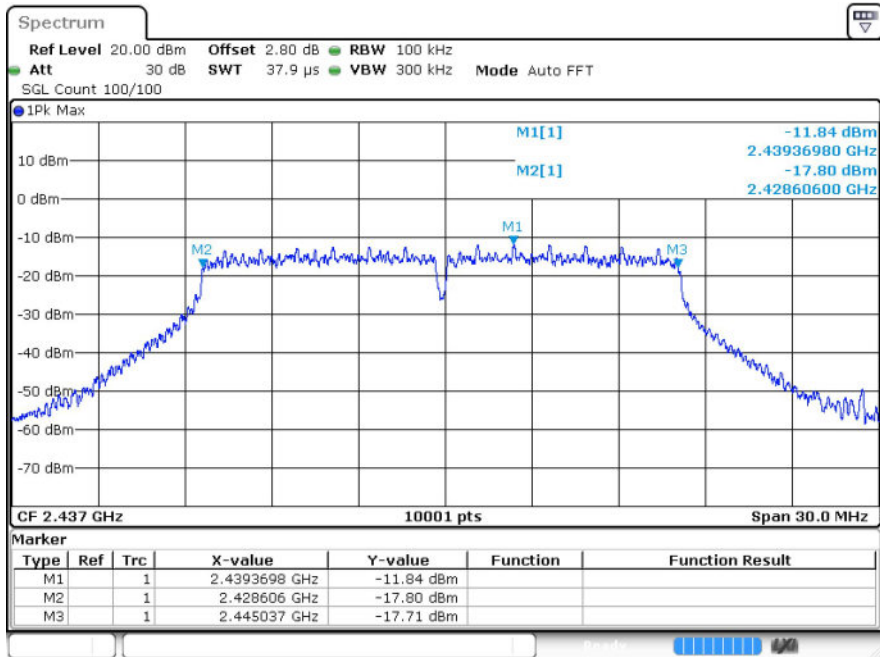
| Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|------|-----------------|---------|-----------------------|-----------------------------|---------|
| b    | 2412            | Ant1    | 9.567                 | 0.5                         | Pass    |
| b    | 2437            | Ant1    | 9.78                  | 0.5                         | Pass    |
| b    | 2462            | Ant1    | 10.05                 | 0.5                         | Pass    |
| g    | 2412            | Ant1    | 16.527                | 0.5                         | Pass    |
| g    | 2437            | Ant1    | 16.431                | 0.5                         | Pass    |
| g    | 2462            | Ant1    | 16.299                | 0.5                         | Pass    |
| n20  | 2412            | Ant1    | 17.547                | 0.5                         | Pass    |
| n20  | 2437            | Ant1    | 17.556                | 0.5                         | Pass    |
| n20  | 2462            | Ant1    | 17.607                | 0.5                         | Pass    |
| n40  | 2422            | Ant1    | 35.046                | 0.5                         | Pass    |
| n40  | 2437            | Ant1    | 36.294                | 0.5                         | Pass    |
| n40  | 2452            | Ant1    | 36.018                | 0.5                         | Pass    |

## 3.2 Test Graphs

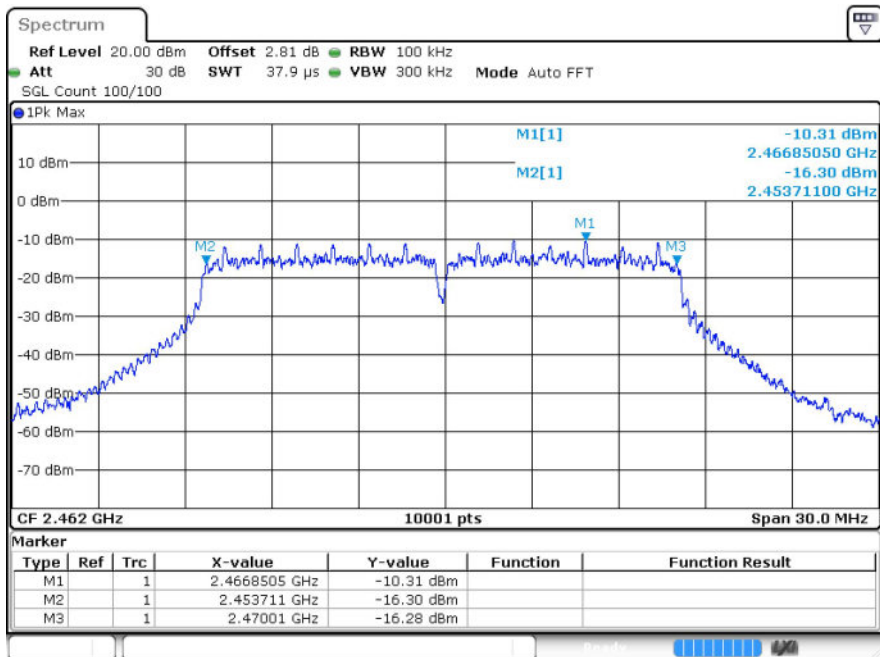


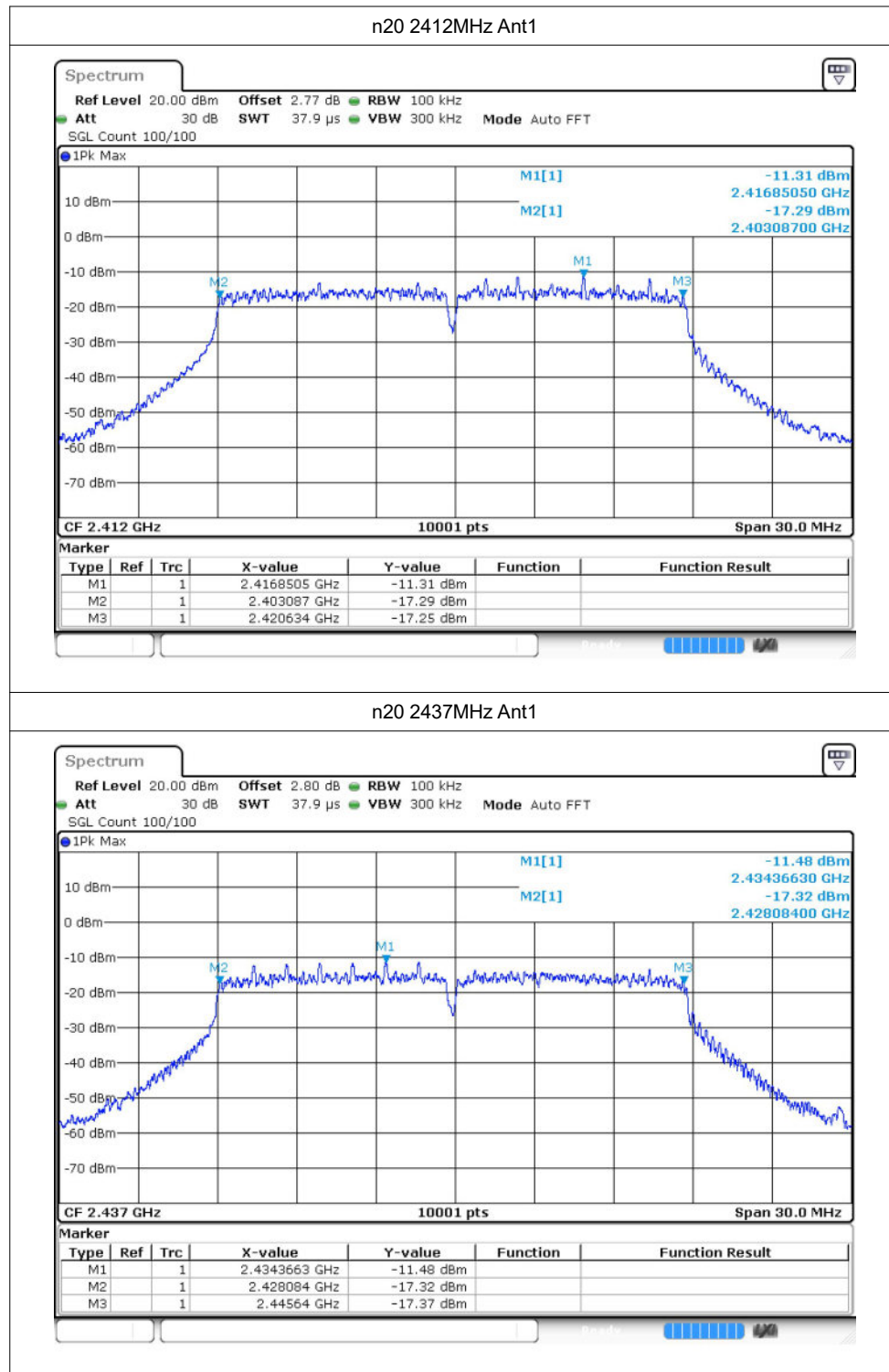


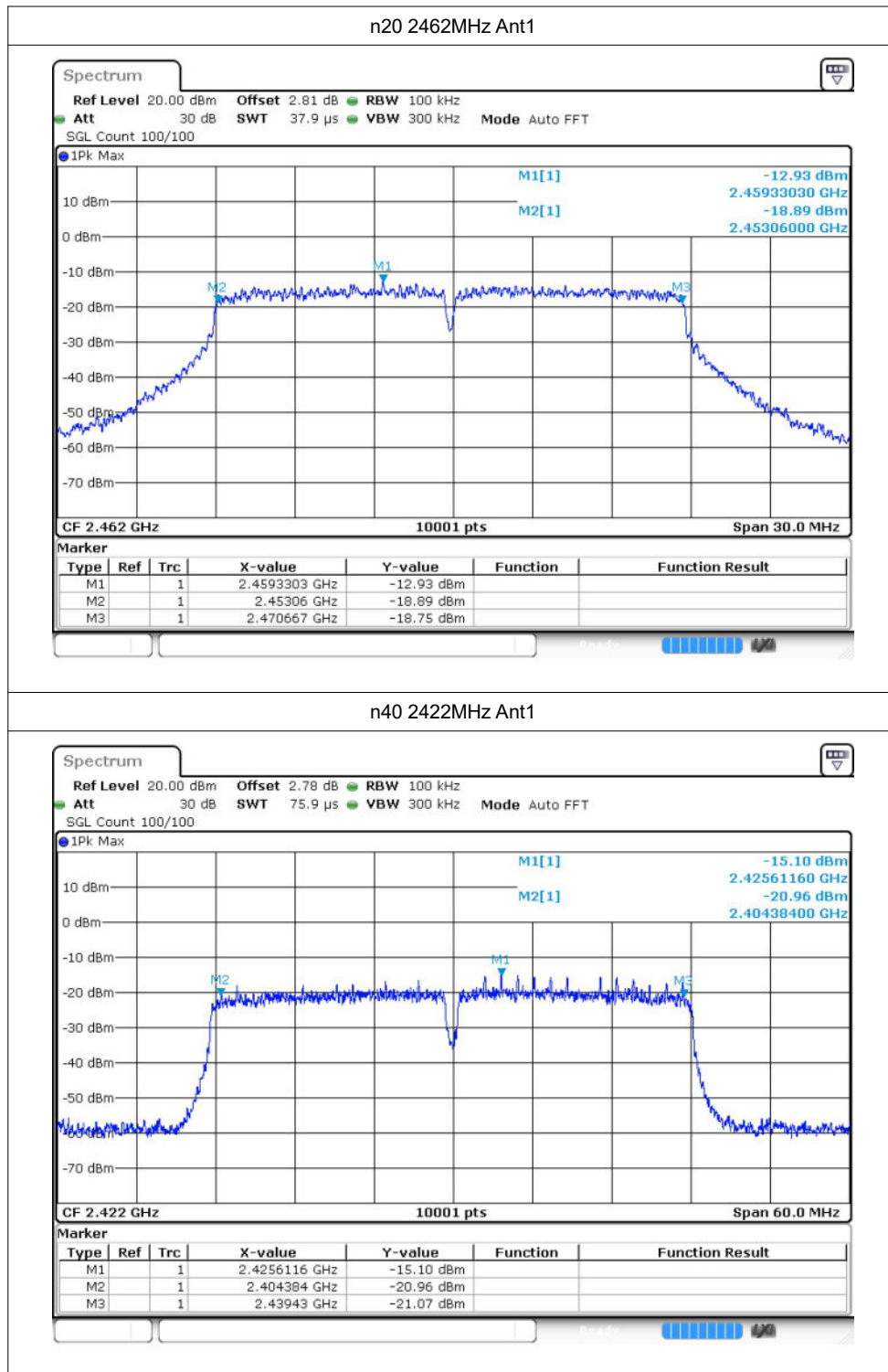
g 2437MHz Ant1

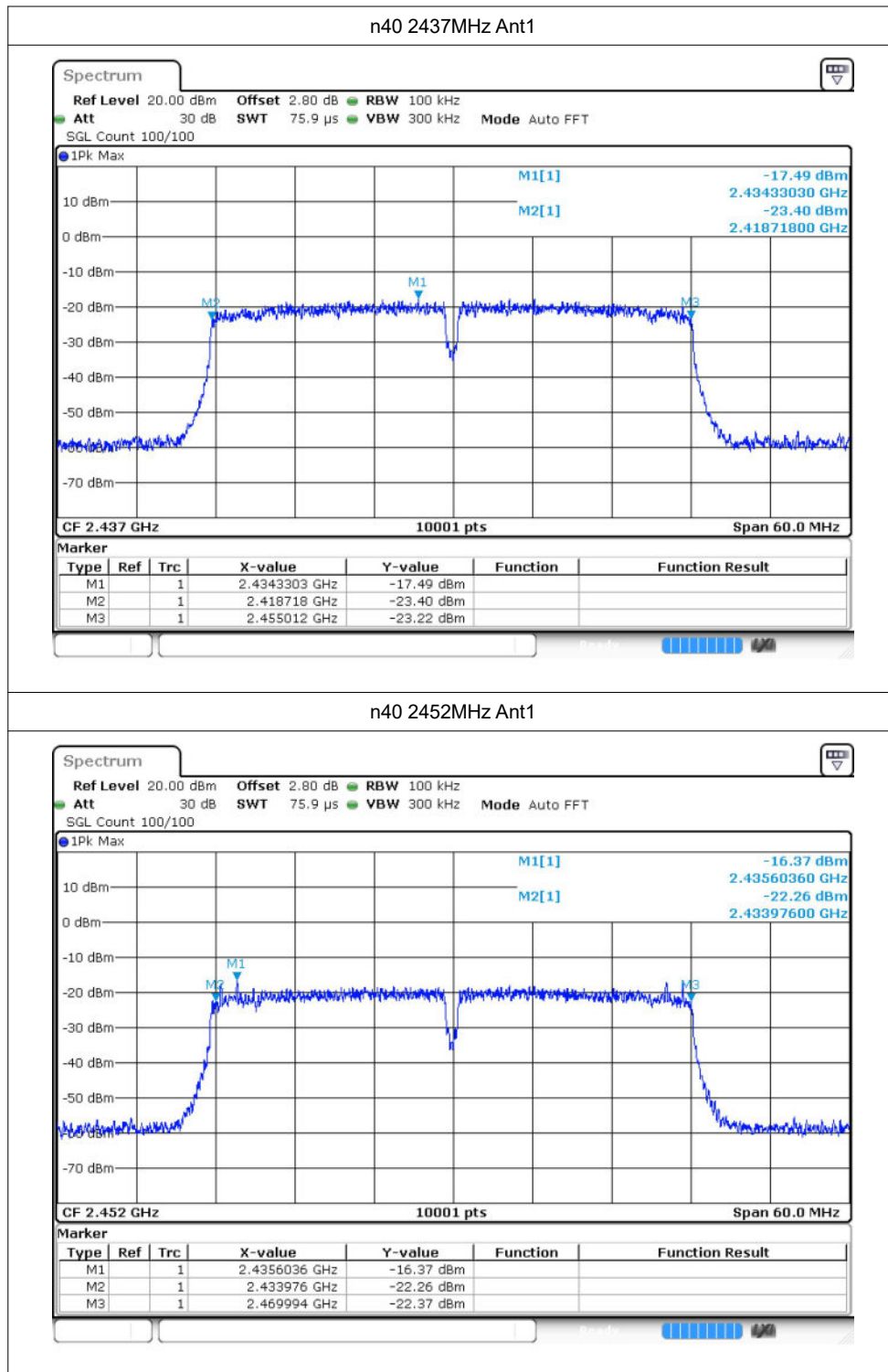


g 2462MHz Ant1







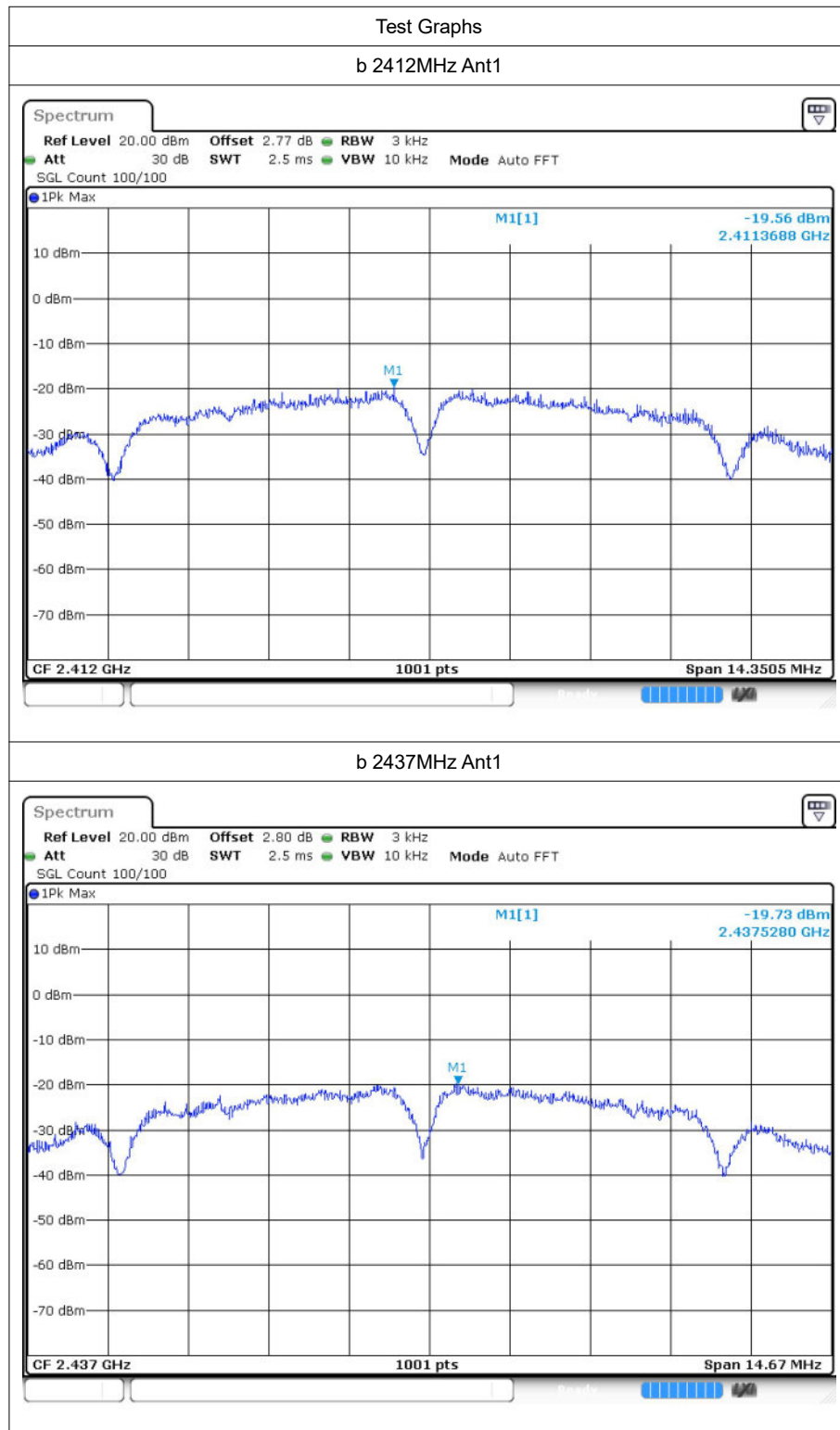


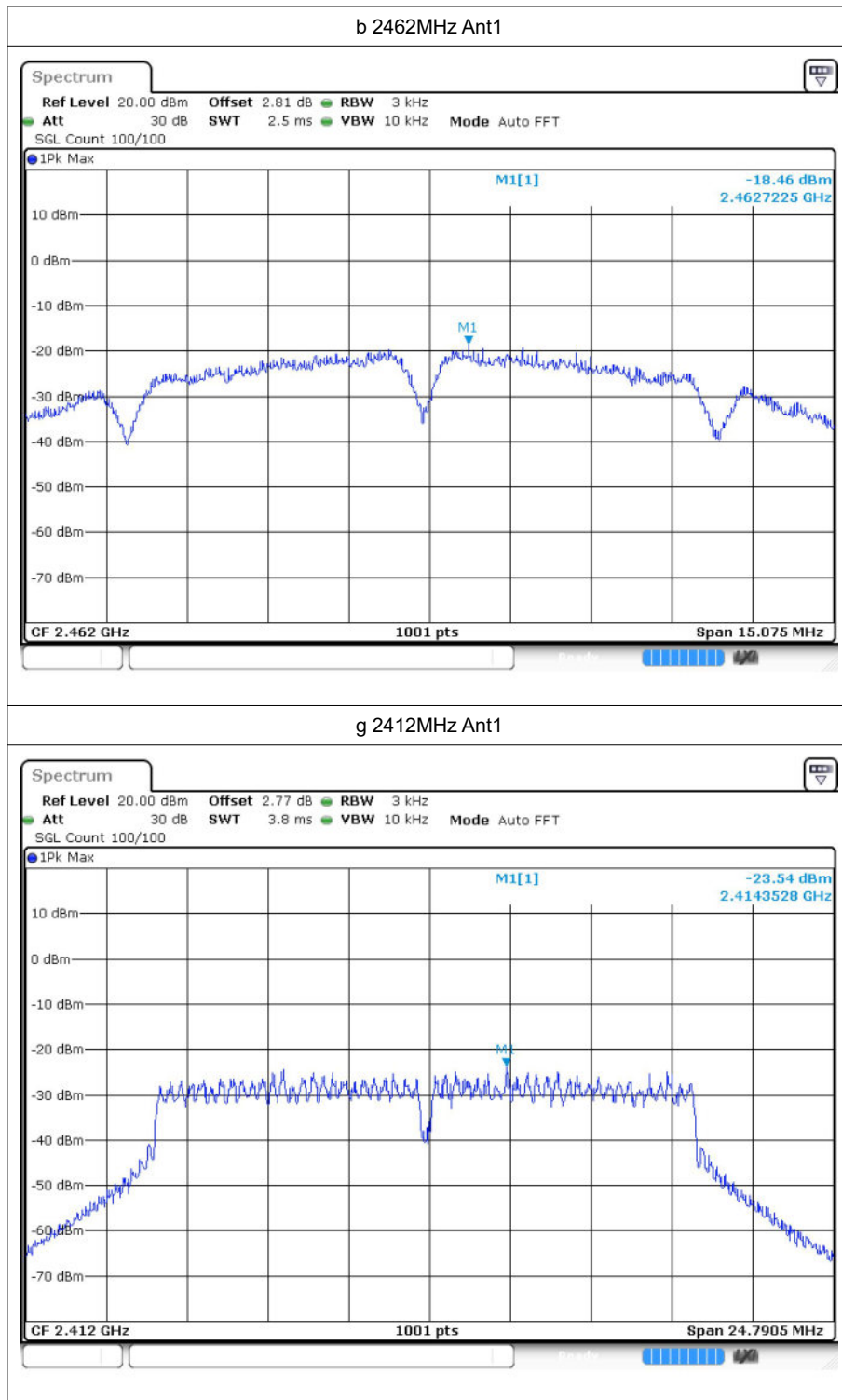
## 4 Maximum Power Spectral Density Level

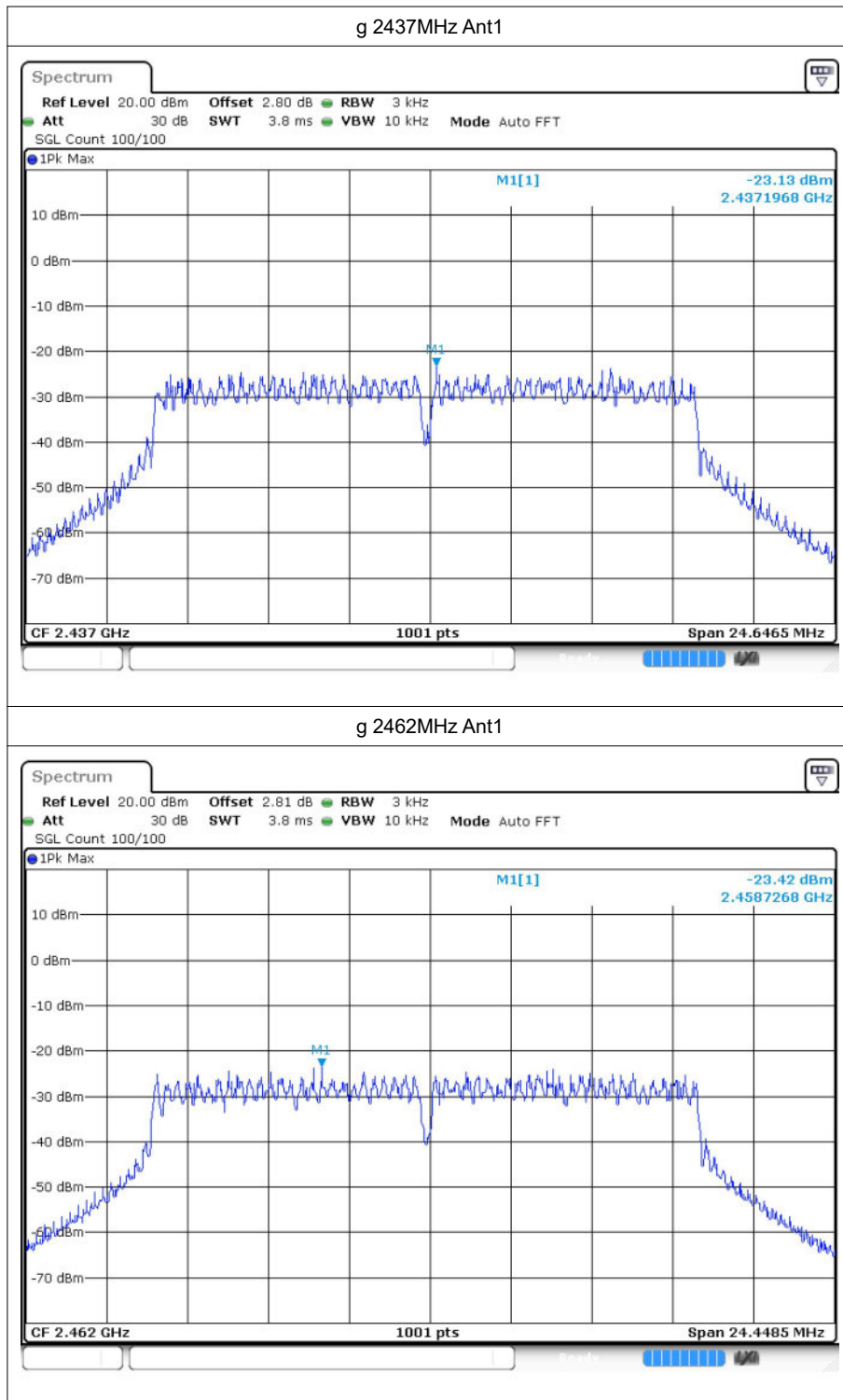
### 4.1 Test Result

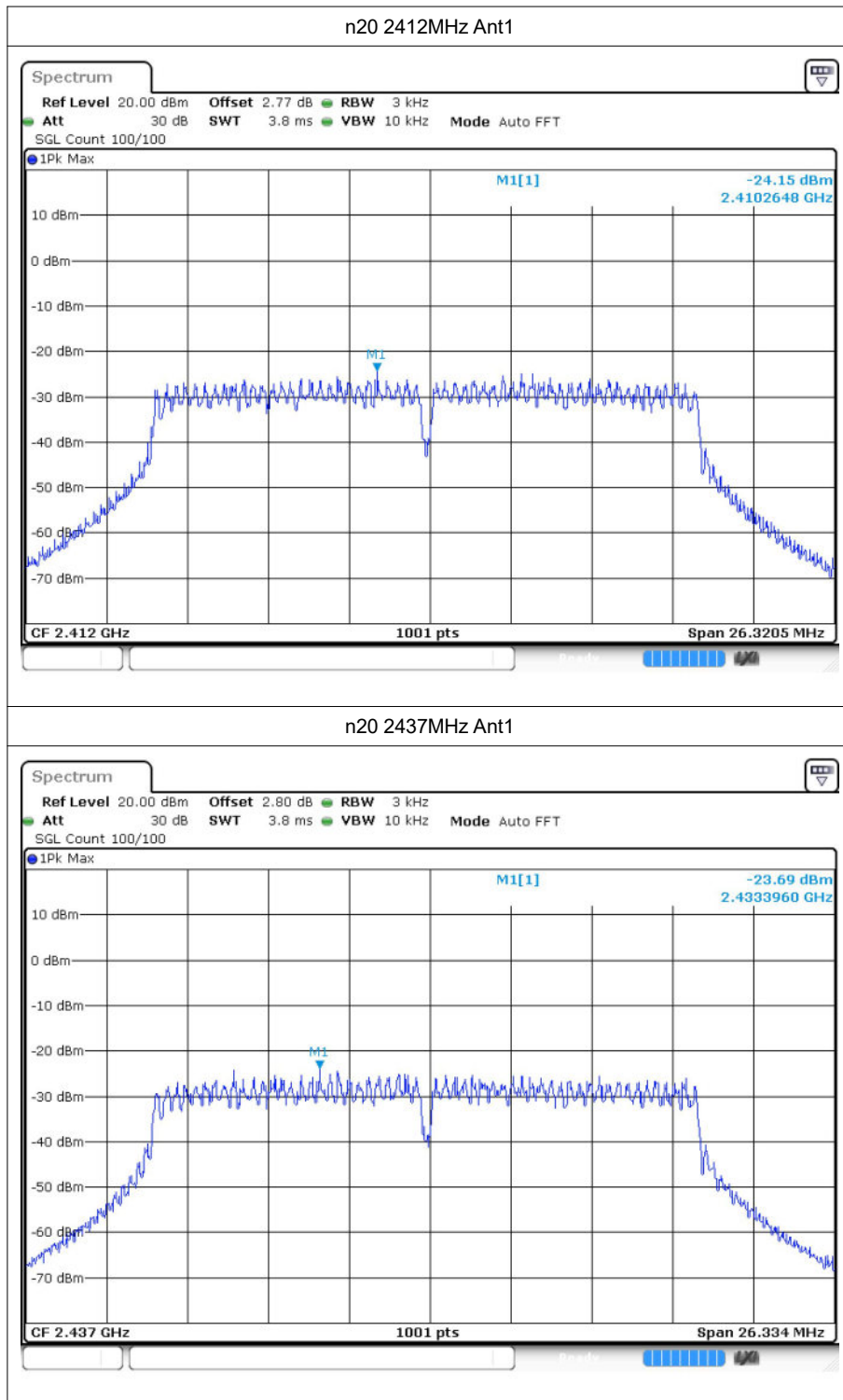
| Mode | Frequency (MHz) | Antenna | Conducted PSD<br>(dBm/3-100kHz) | Limit<br>(dBm/3kHz) | Verdict |
|------|-----------------|---------|---------------------------------|---------------------|---------|
| b    | 2412            | Ant1    | -19.56                          | $\leq 8$            | Pass    |
| b    | 2437            | Ant1    | -19.73                          | $\leq 8$            | Pass    |
| b    | 2462            | Ant1    | -18.46                          | $\leq 8$            | Pass    |
| g    | 2412            | Ant1    | -23.54                          | $\leq 8$            | Pass    |
| g    | 2437            | Ant1    | -23.13                          | $\leq 8$            | Pass    |
| g    | 2462            | Ant1    | -23.42                          | $\leq 8$            | Pass    |
| n20  | 2412            | Ant1    | -24.15                          | $\leq 8$            | Pass    |
| n20  | 2437            | Ant1    | -23.69                          | $\leq 8$            | Pass    |
| n20  | 2462            | Ant1    | -23.59                          | $\leq 8$            | Pass    |
| n40  | 2422            | Ant1    | -28.73                          | $\leq 8$            | Pass    |
| n40  | 2437            | Ant1    | -29.35                          | $\leq 8$            | Pass    |
| n40  | 2452            | Ant1    | -29.48                          | $\leq 8$            | Pass    |

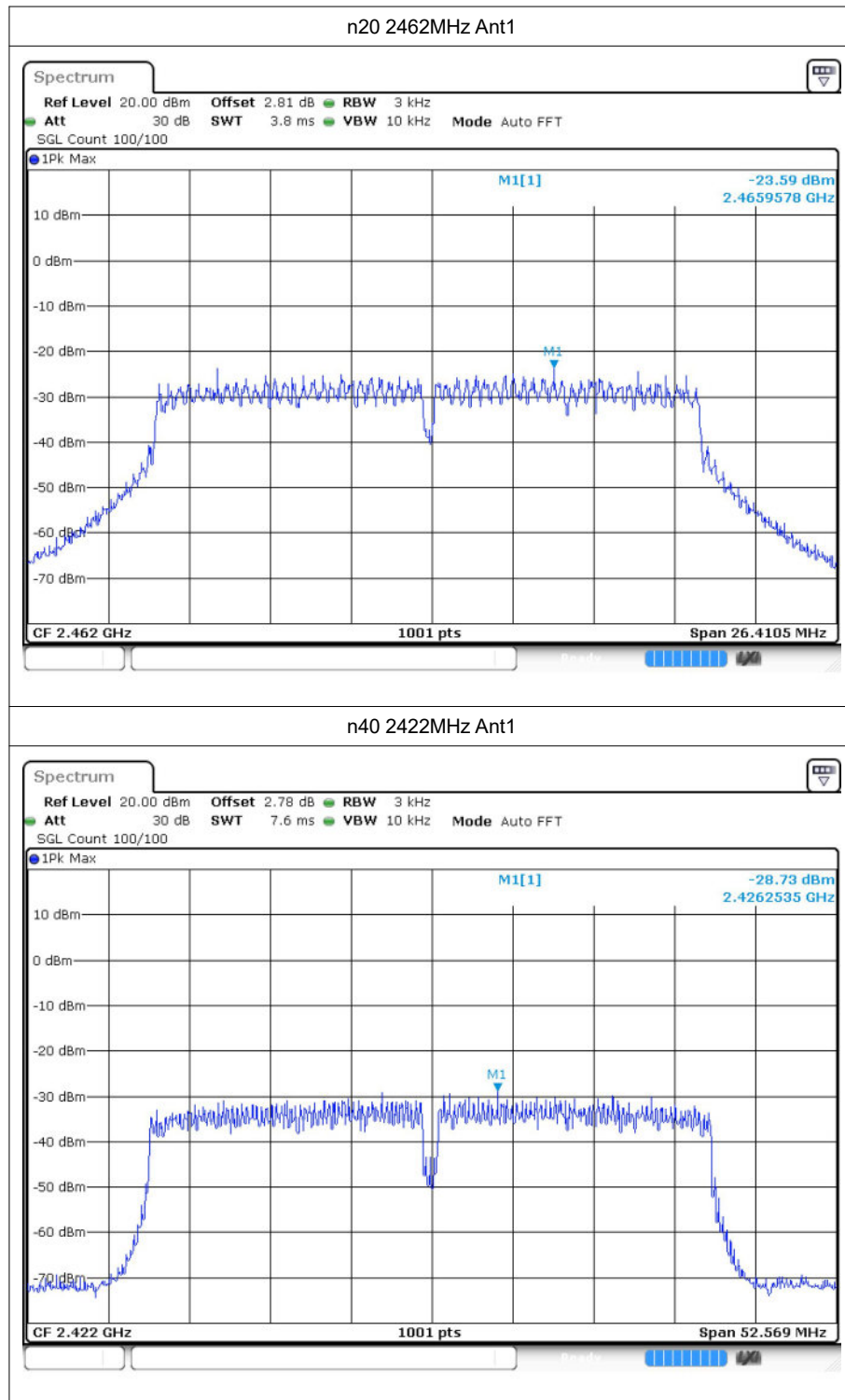
## 4.2 Test Graphs

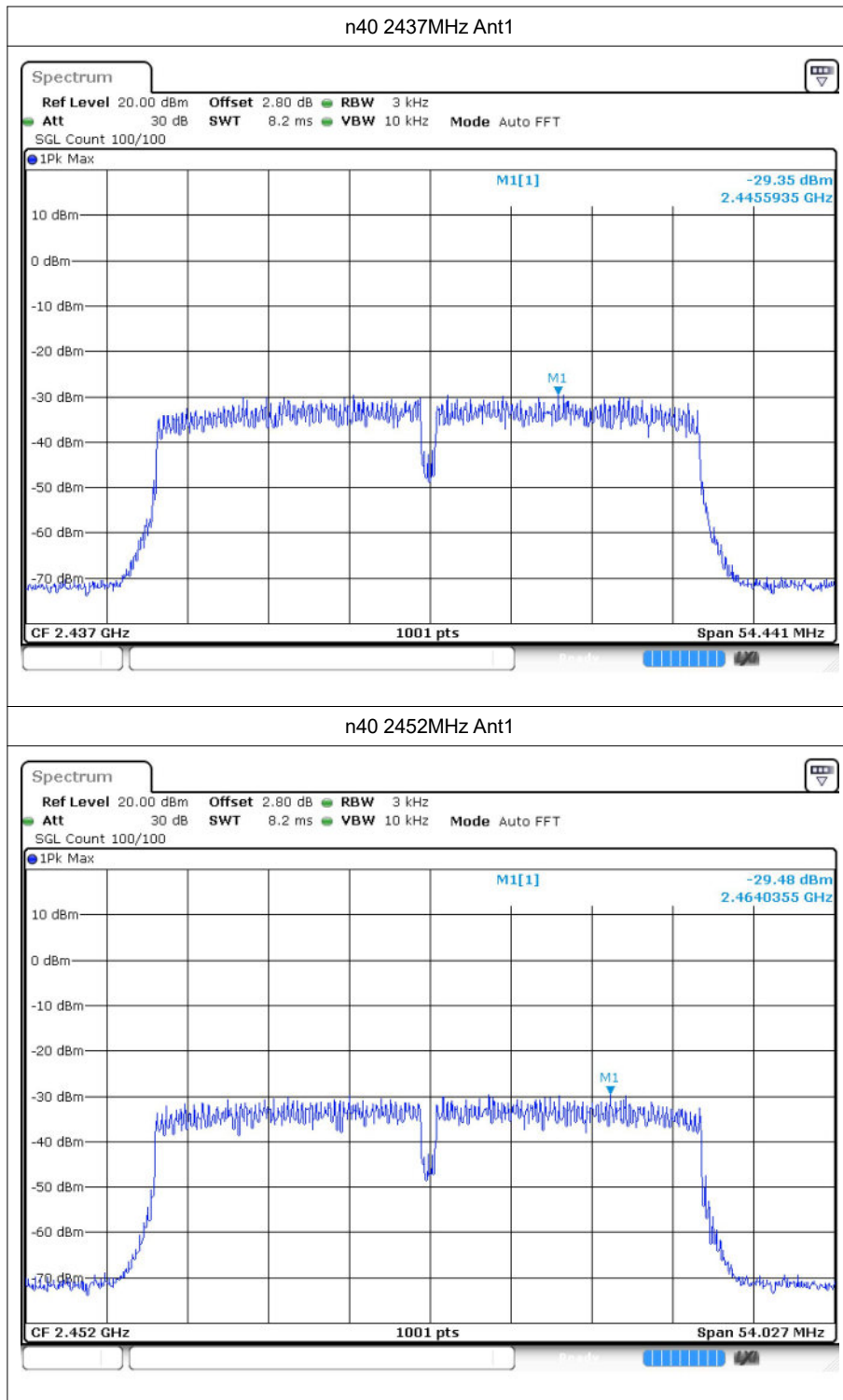












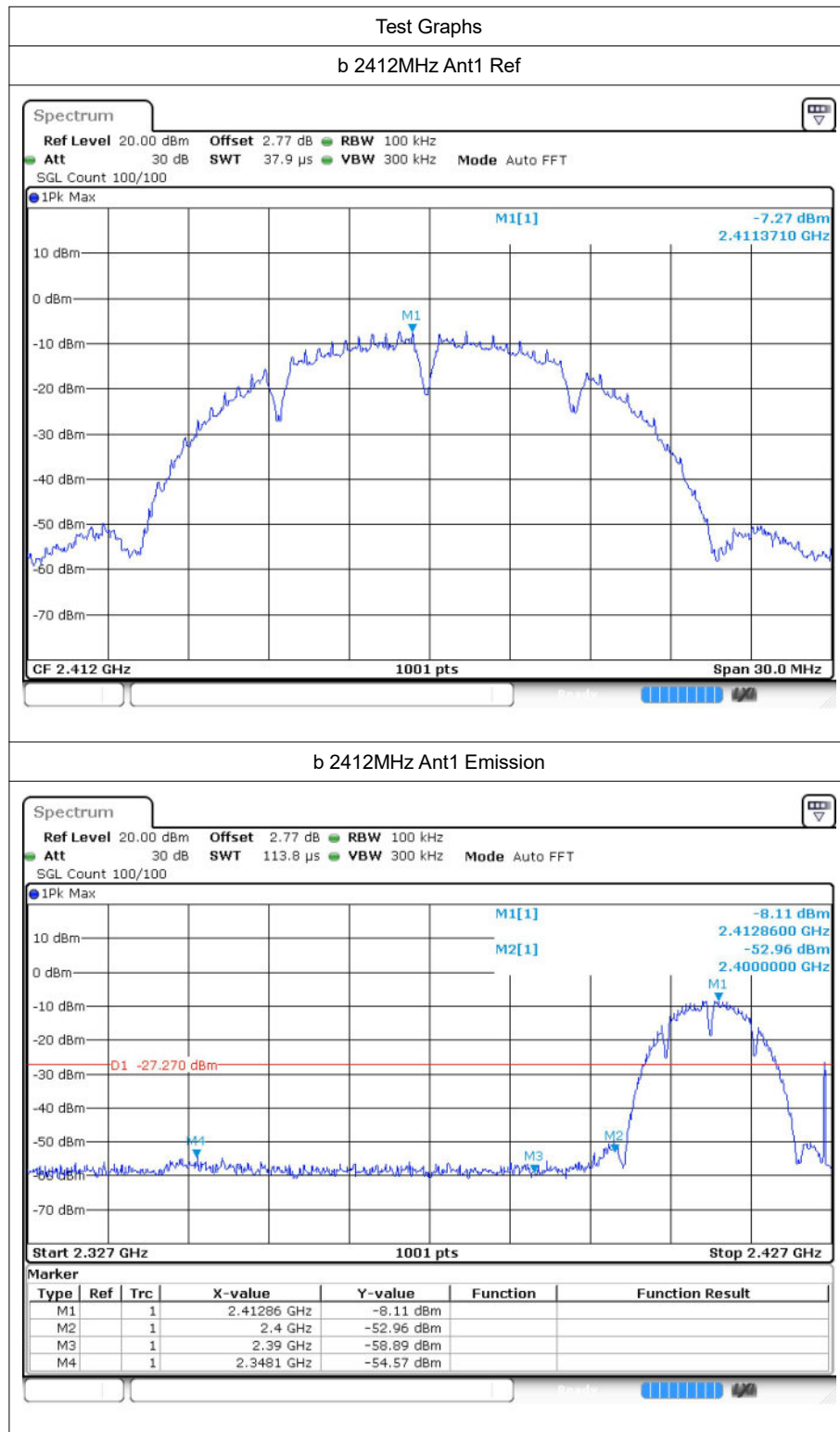


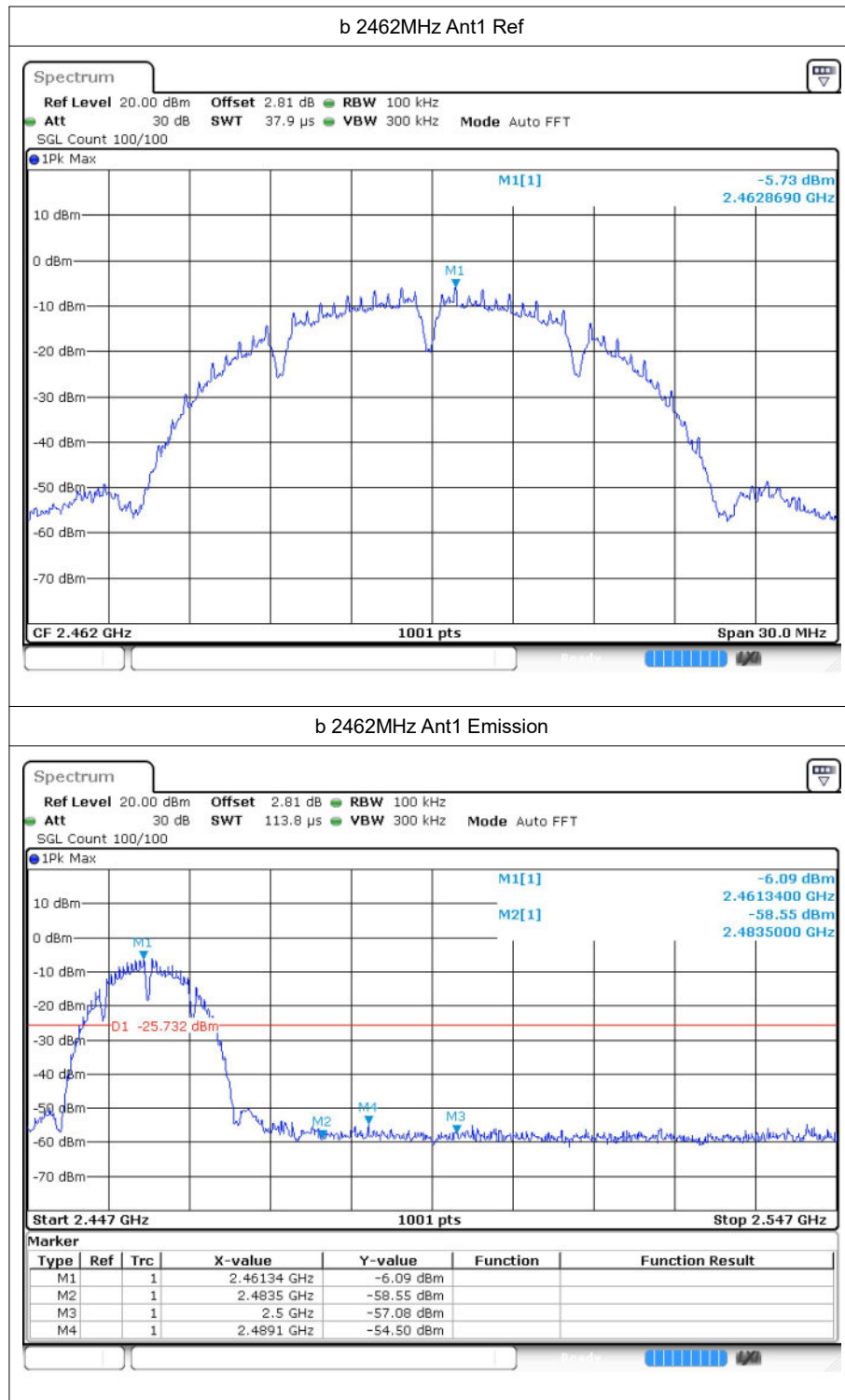
## 5 Band Edge

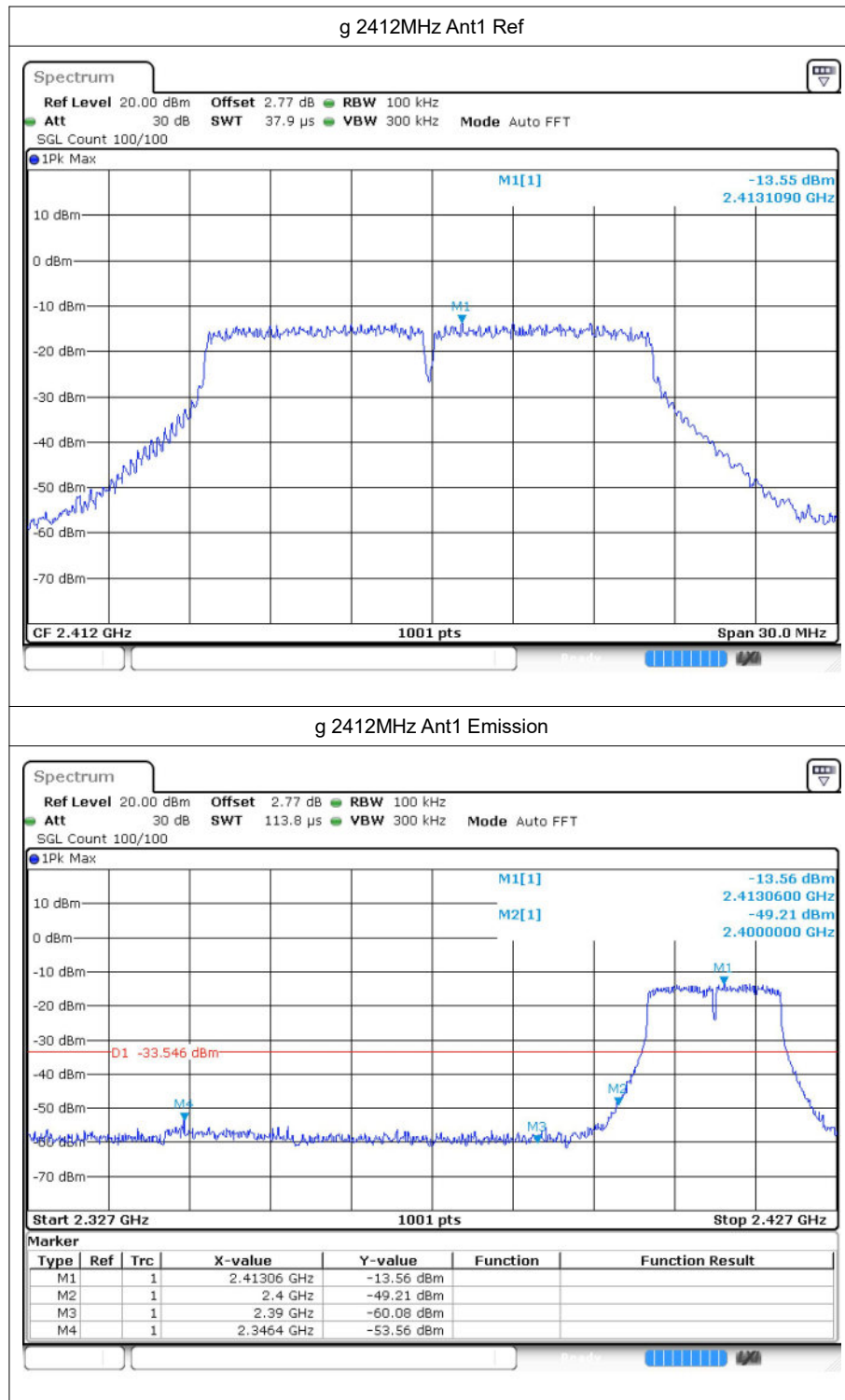
### 5.1 Test Result

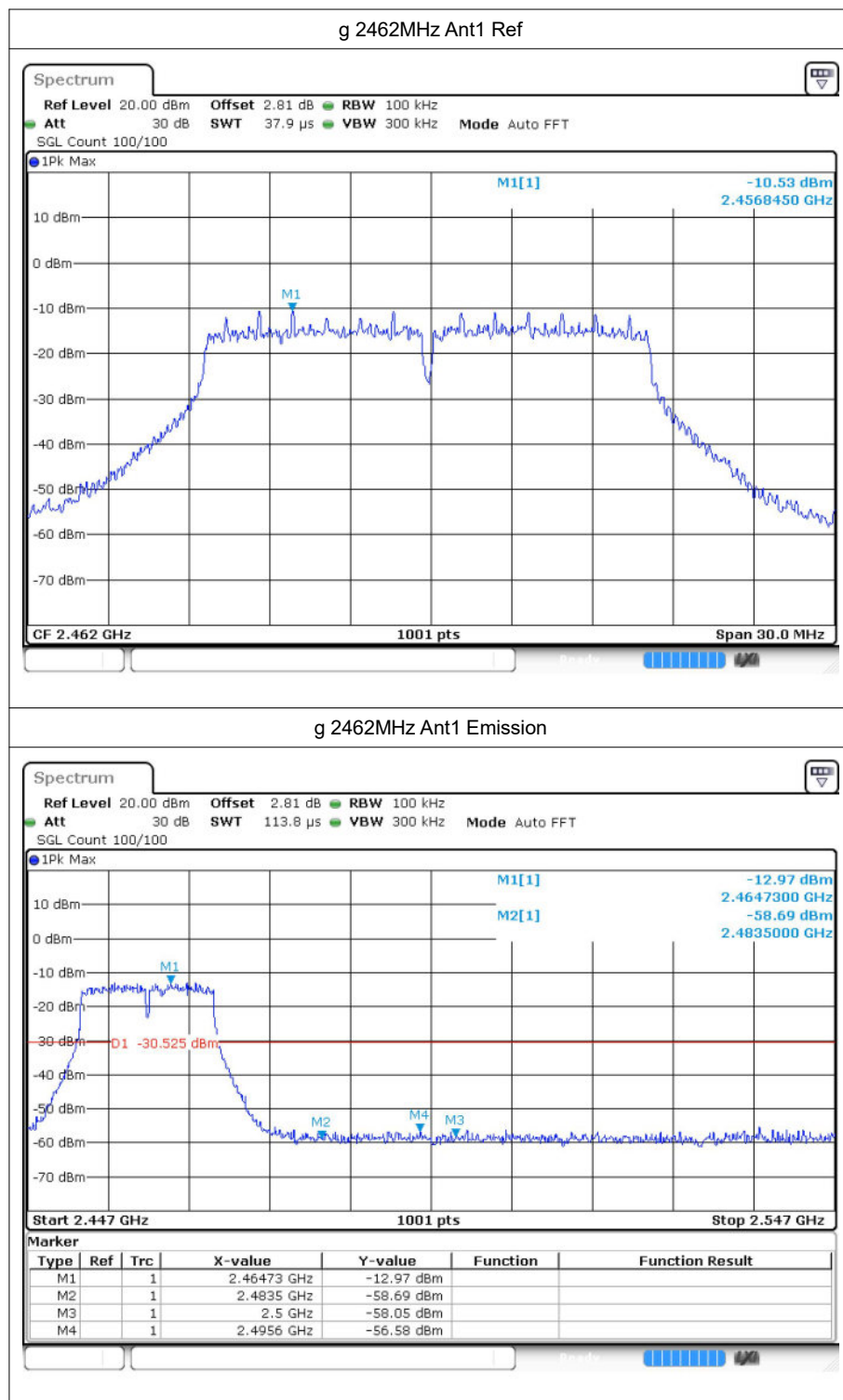
| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b    | 2412            | Ant1    | -47.3           | -20         | Pass    |
| b    | 2462            | Ant1    | -48.76          | -20         | Pass    |
| g    | 2412            | Ant1    | -40             | -20         | Pass    |
| g    | 2462            | Ant1    | -46.05          | -20         | Pass    |
| n20  | 2412            | Ant1    | -41.85          | -20         | Pass    |
| n20  | 2462            | Ant1    | -44.01          | -20         | Pass    |
| n40  | 2422            | Ant1    | -40.89          | -20         | Pass    |
| n40  | 2452            | Ant1    | -40.58          | -20         | Pass    |

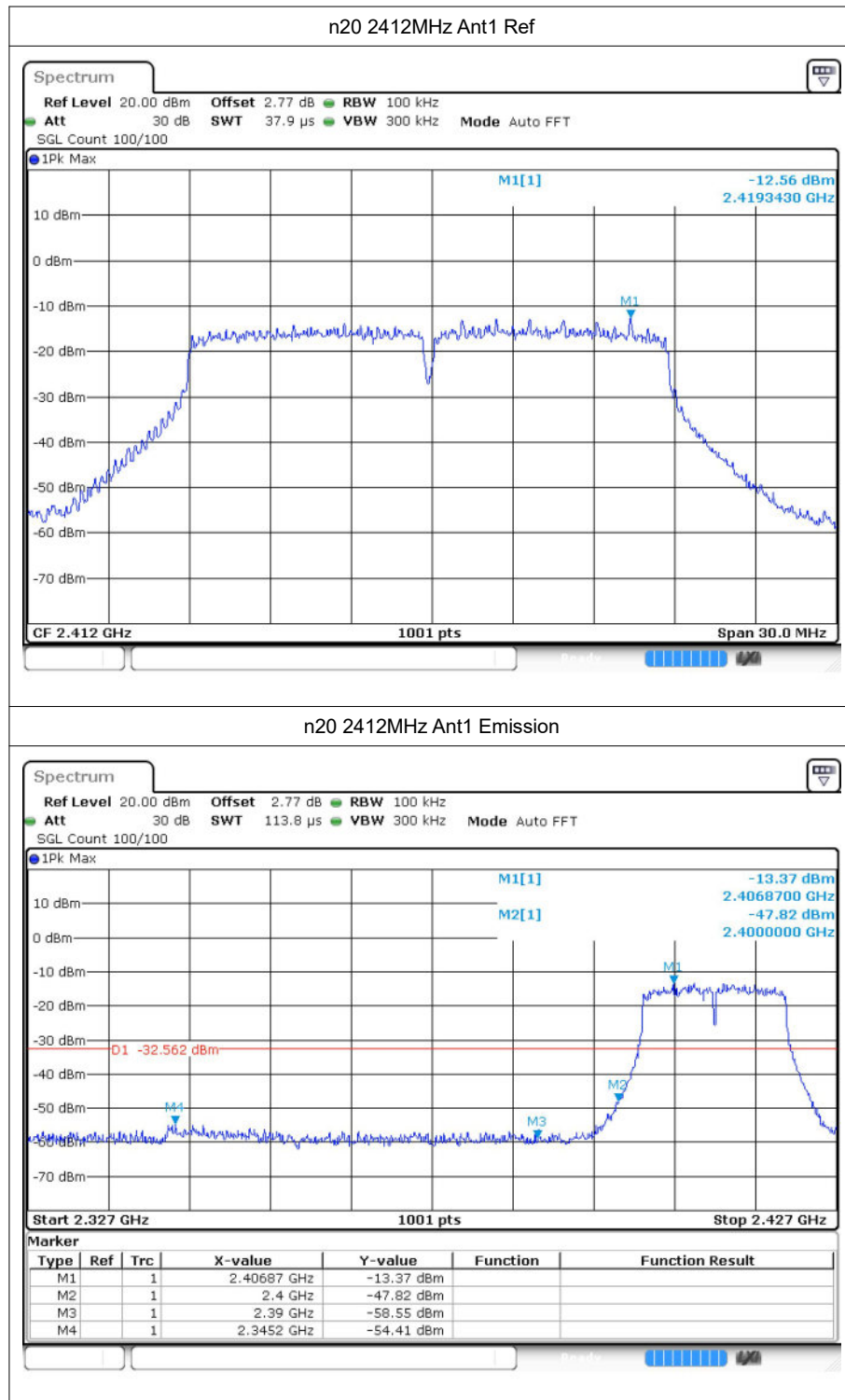
## 5.2 Test Graphs

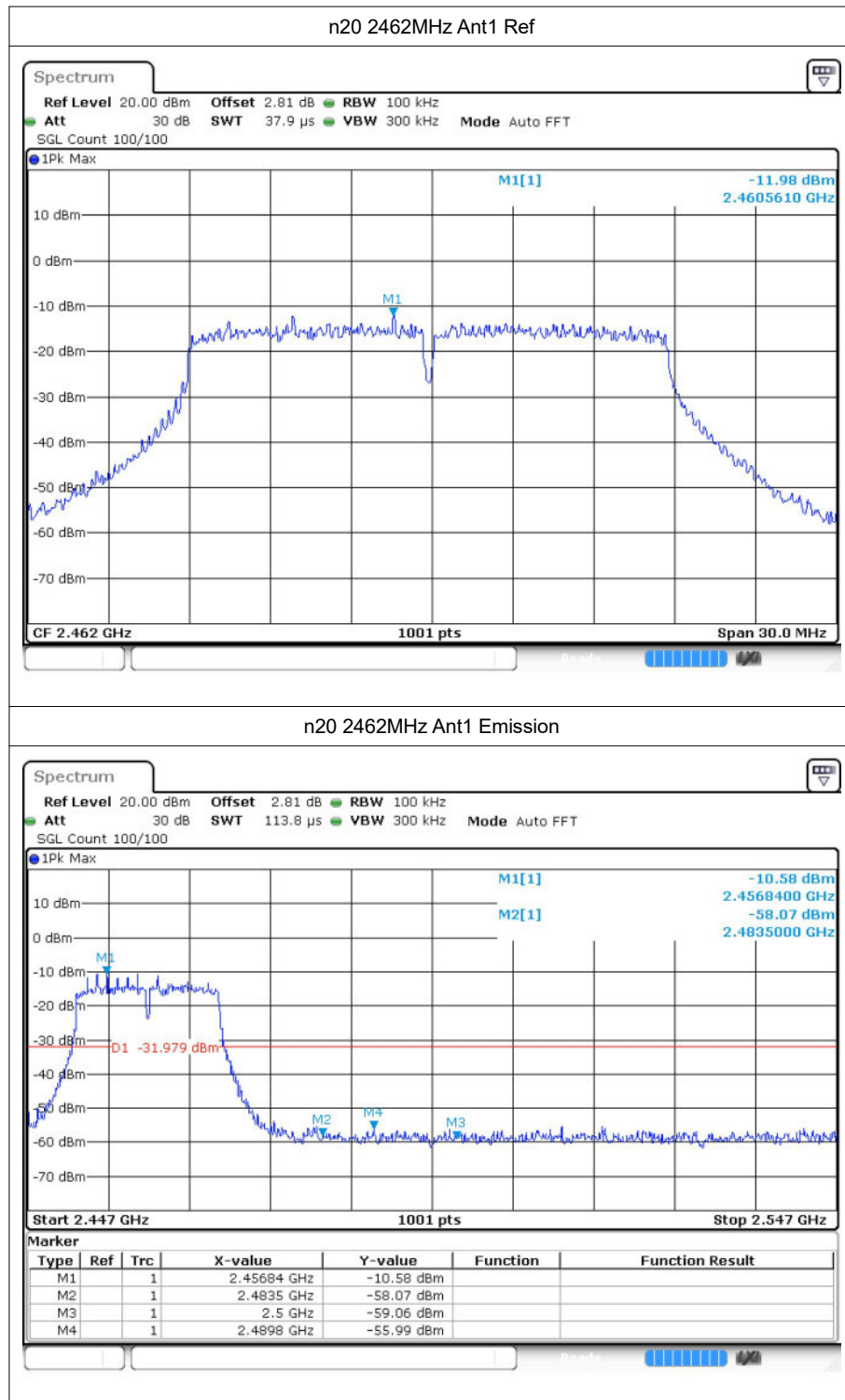


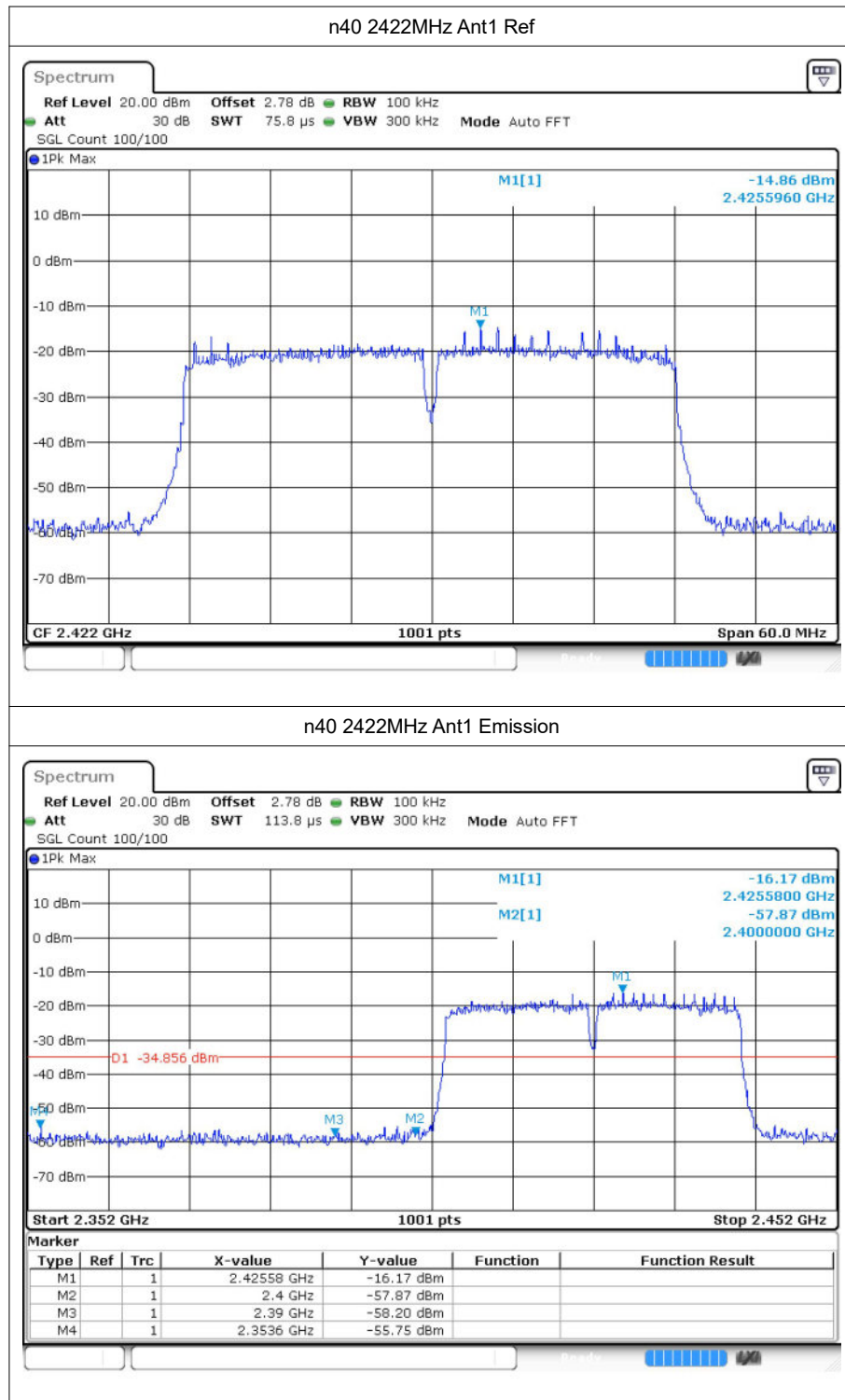


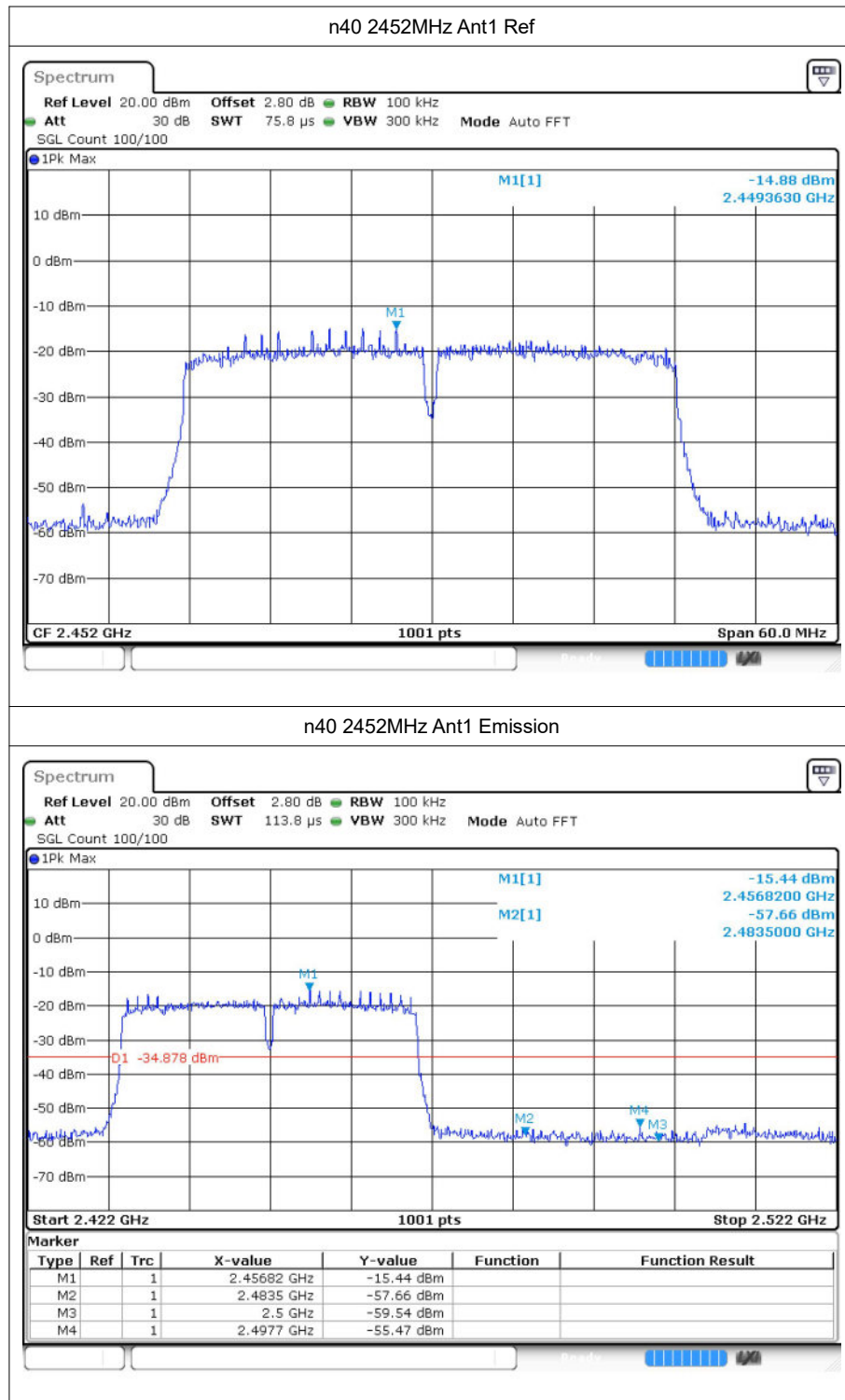














## 6 Conducted RF Spurious Emission

### 6.1 Test Result

| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b    | 2412            | Ant1    | -34.61          | -20         | Pass    |
| b    | 2437            | Ant1    | -36.96          | -20         | Pass    |
| b    | 2462            | Ant1    | -35.1           | -20         | Pass    |
| g    | 2412            | Ant1    | -32.04          | -20         | Pass    |
| g    | 2437            | Ant1    | -29.58          | -20         | Pass    |
| g    | 2462            | Ant1    | -28.91          | -20         | Pass    |
| n20  | 2412            | Ant1    | -30.79          | -20         | Pass    |
| n20  | 2437            | Ant1    | -32.67          | -20         | Pass    |
| n20  | 2462            | Ant1    | -32.52          | -20         | Pass    |
| n40  | 2422            | Ant1    | -27.95          | -20         | Pass    |
| n40  | 2437            | Ant1    | -28.17          | -20         | Pass    |
| n40  | 2452            | Ant1    | -28.44          | -20         | Pass    |

## 6.2 Test Graphs

