



## Appendix D

### RF Test Data for B1WIFI(Conducted Measurement)

Product Name: projector

Trade Mark: N/A

Test Model: Projector2.69

Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 25.6° C     |
| Relative Humidity: | 52.4%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Emiya lin   |
| Supervised by:     | Simba Haung |



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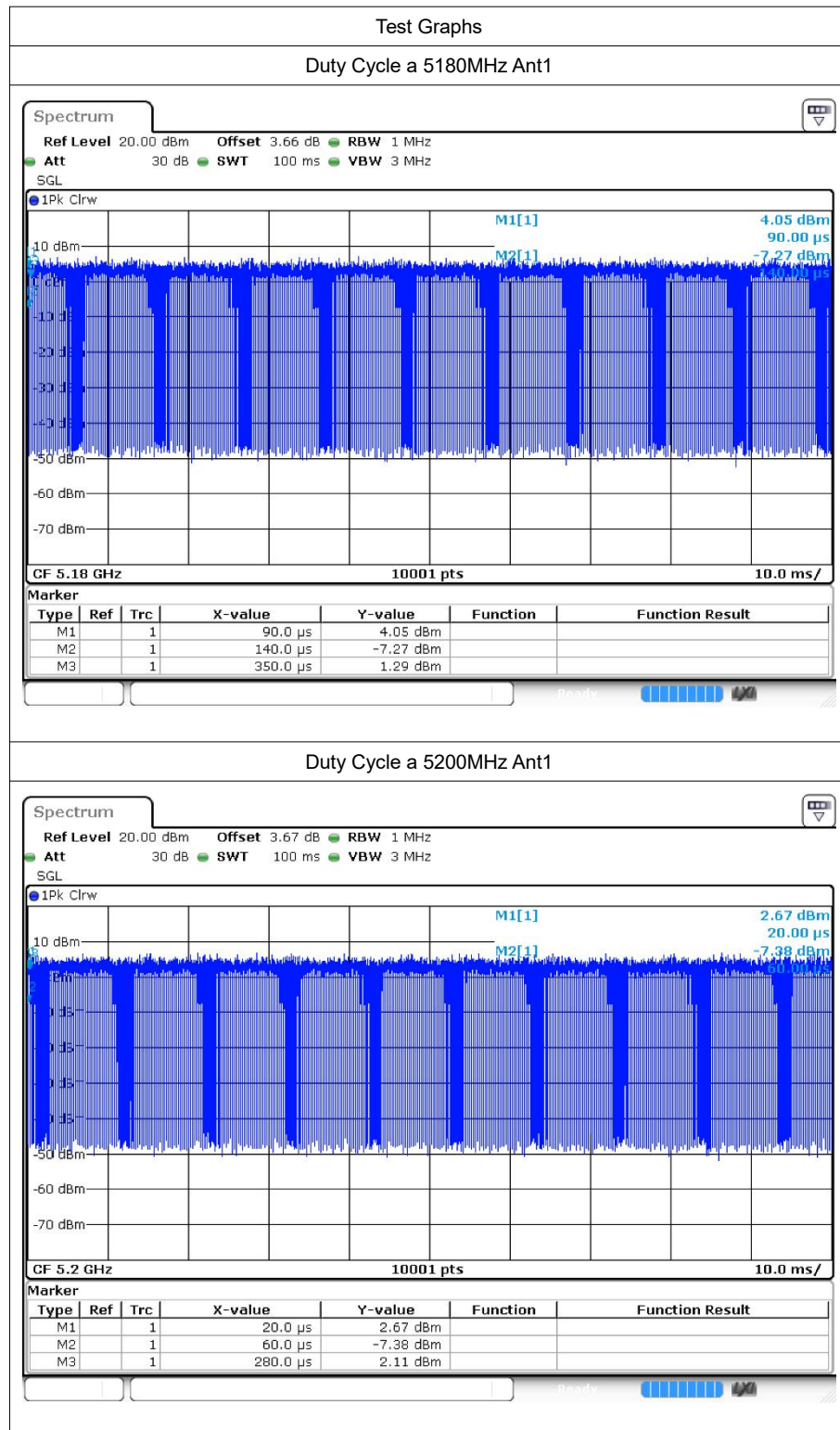
# 1 Duty Cycle

## 1.1 Test Result

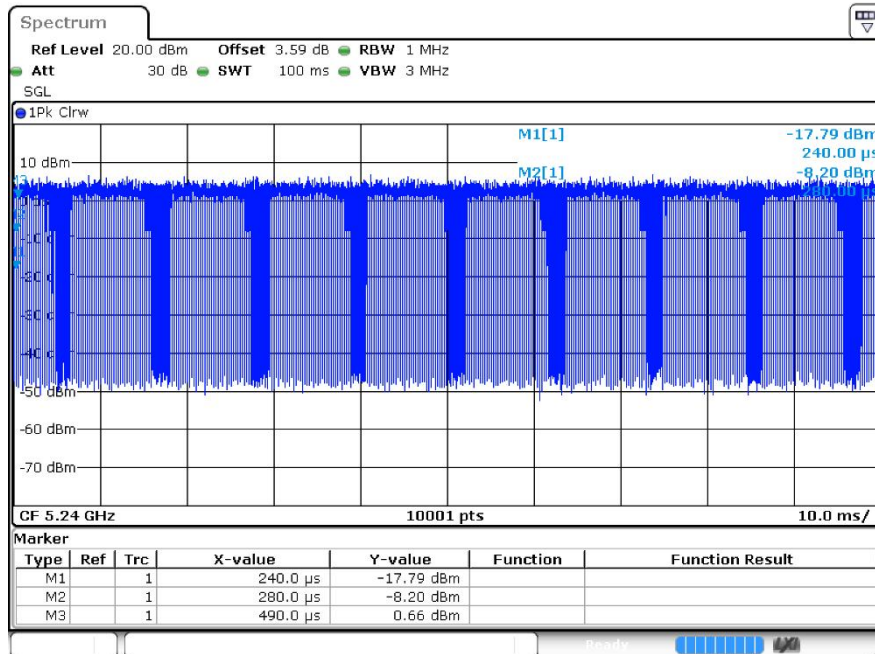
| Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|------|-----------------|---------|----------------|------------------------|-----------|
| a    | 5180            | Ant1    | 86.86          | 0.61                   | 4.76      |
| a    | 5200            | Ant1    | 86.93          | 0.61                   | 4.55      |
| a    | 5240            | Ant1    | 86.94          | 0.61                   | 4.76      |
| n20  | 5180            | Ant1    | 87.62          | 0.57                   | 4.35      |
| n20  | 5200            | Ant1    | 87.62          | 0.57                   | 4.35      |
| n20  | 5240            | Ant1    | 87.63          | 0.57                   | 4.35      |
| n40  | 5190            | Ant1    | 88.13          | 0.55                   | 4.17      |
| n40  | 5230            | Ant1    | 88.14          | 0.55                   | 4         |
| ac20 | 5180            | Ant1    | 87.17          | 0.6                    | 4.35      |
| ac20 | 5200            | Ant1    | 87.34          | 0.59                   | 4.35      |
| ac20 | 5240            | Ant1    | 87.25          | 0.59                   | 4.35      |
| ac40 | 5190            | Ant1    | 87.05          | 0.6                    | 4.55      |
| ac40 | 5230            | Ant1    | 87.09          | 0.6                    | 4.35      |
| ac80 | 5210            | Ant1    | 87.36          | 0.59                   | 4.35      |
| ax20 | 5180            | Ant1    | 87.17          | 0.6                    | 4.35      |
| ax20 | 5200            | Ant1    | 87.12          | 0.6                    | 4.55      |
| ax20 | 5240            | Ant1    | 87.05          | 0.6                    | 4.55      |
| ax40 | 5190            | Ant1    | 87.44          | 0.58                   | 4.35      |
| ax40 | 5230            | Ant1    | 87.46          | 0.58                   | 4.17      |
| ax80 | 5210            | Ant1    | 87.97          | 0.56                   | 4         |



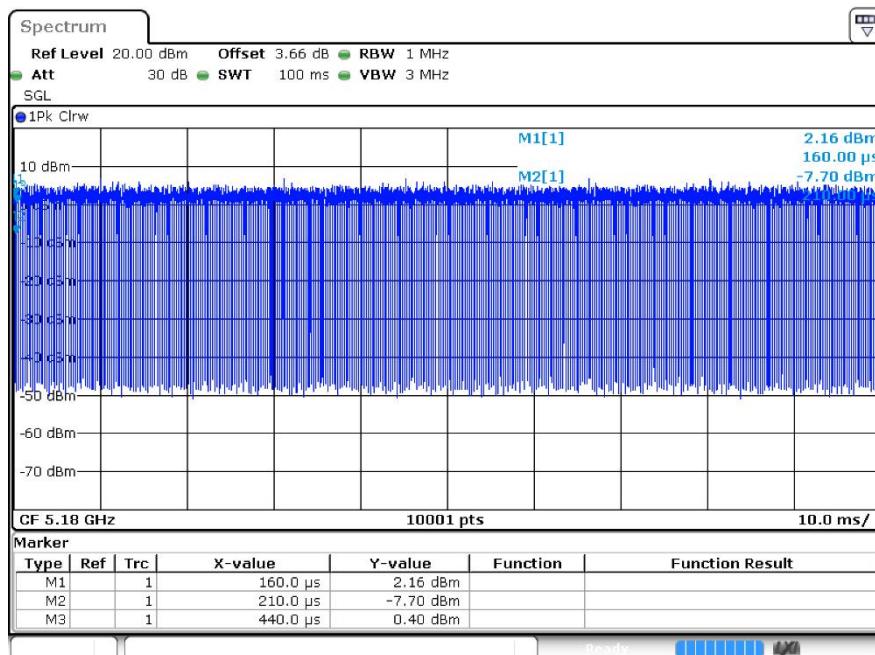
## 1.2 Test Graphs



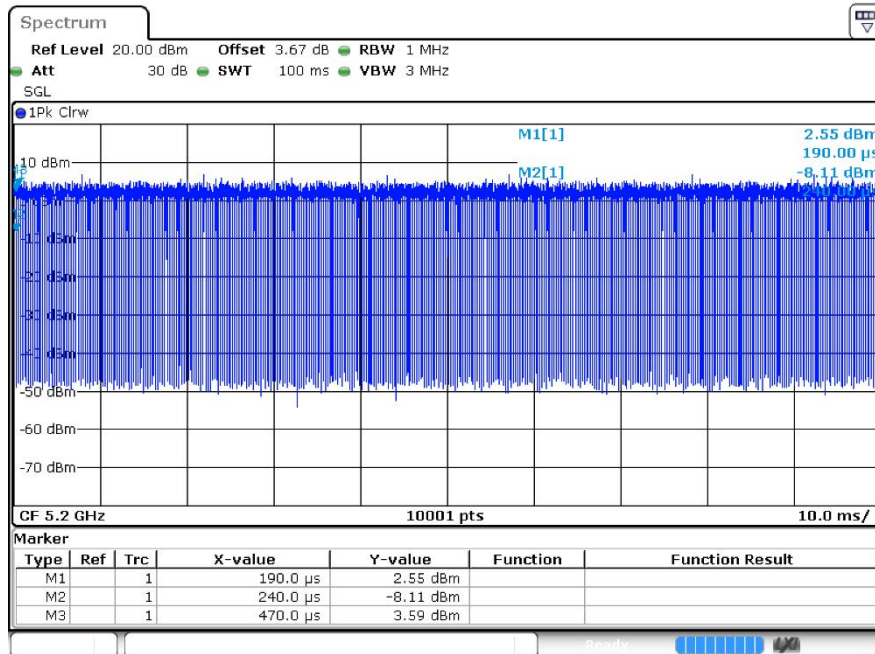
## Duty Cycle a 5240MHz Ant1



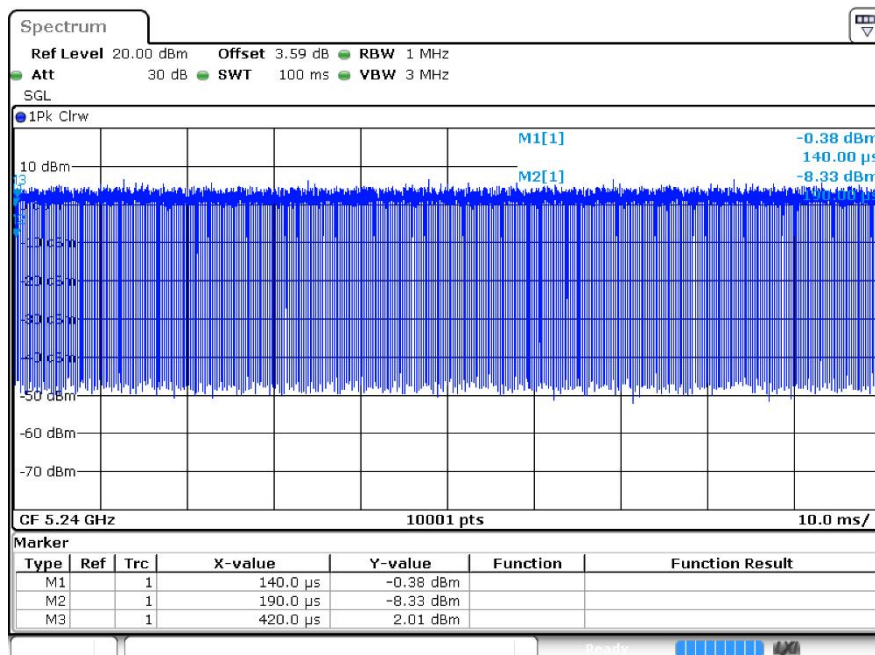
## Duty Cycle n20 5180MHz Ant1



## Duty Cycle a n20 5200MHz Ant1

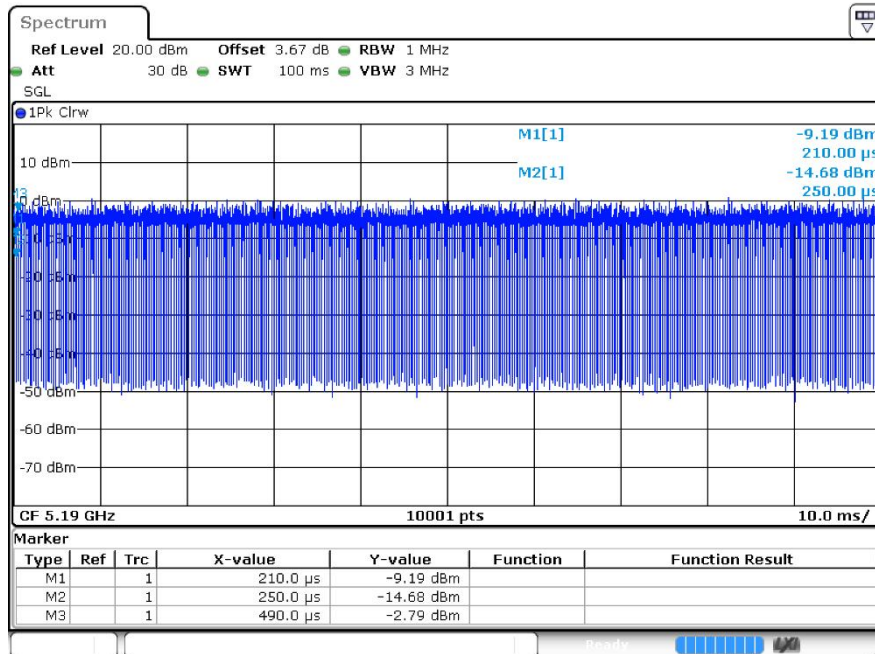


## Duty Cycle n20 5240MHz Ant1

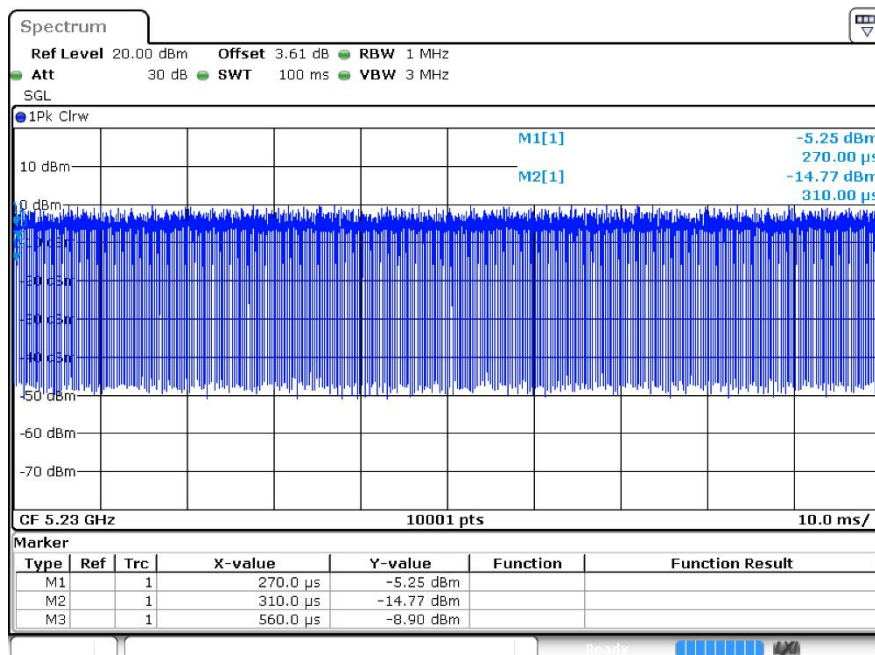




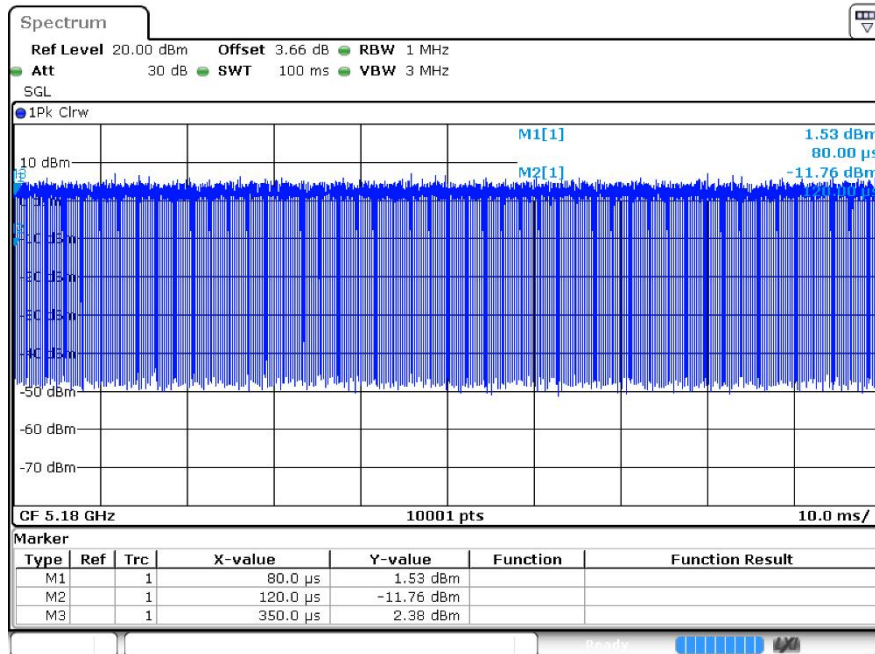
## Duty Cyclen40 5190MHz Ant1



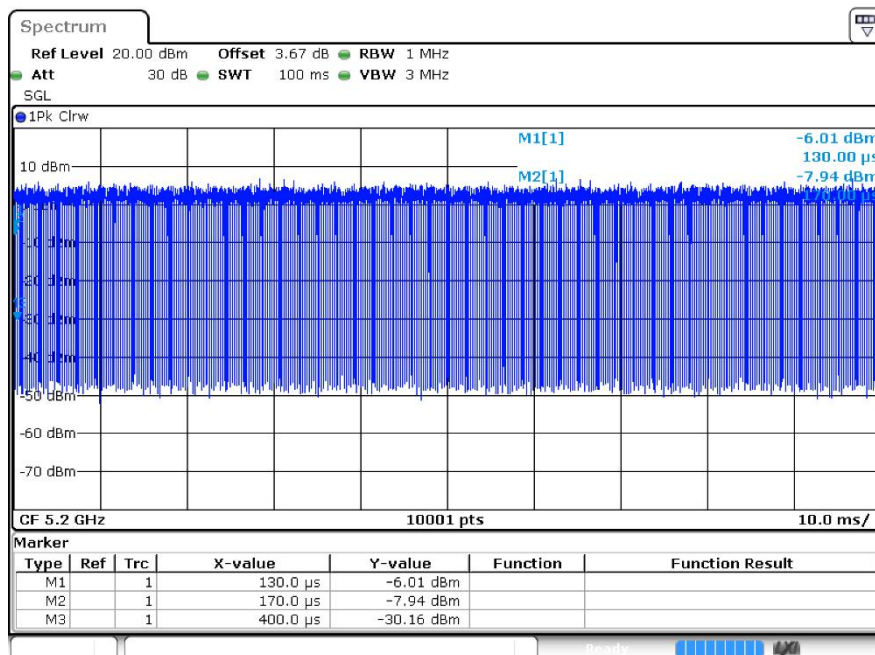
## Duty Cyclen40 5230MHz Ant1



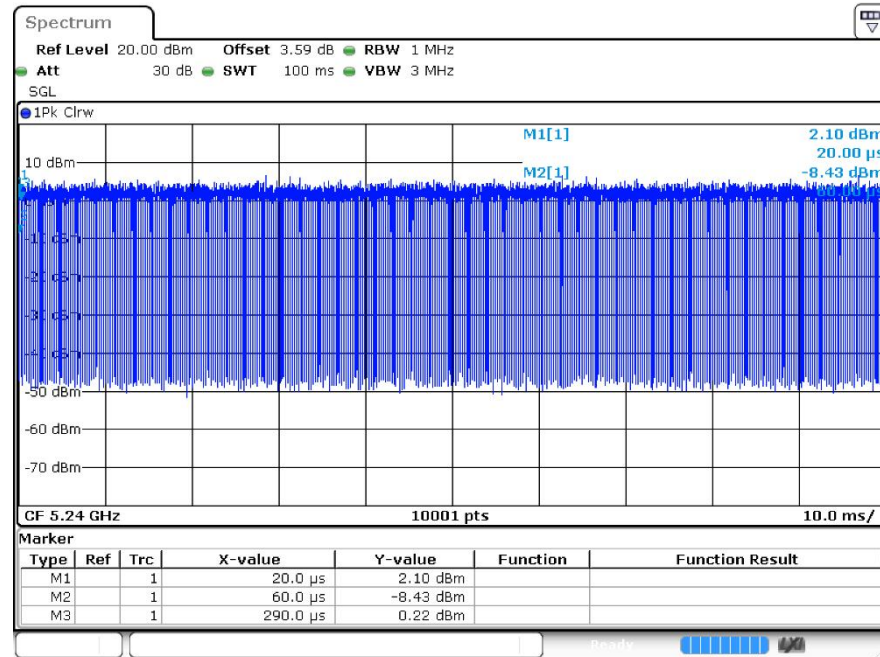
## Duty Cycle ac20 5180MHz Ant1



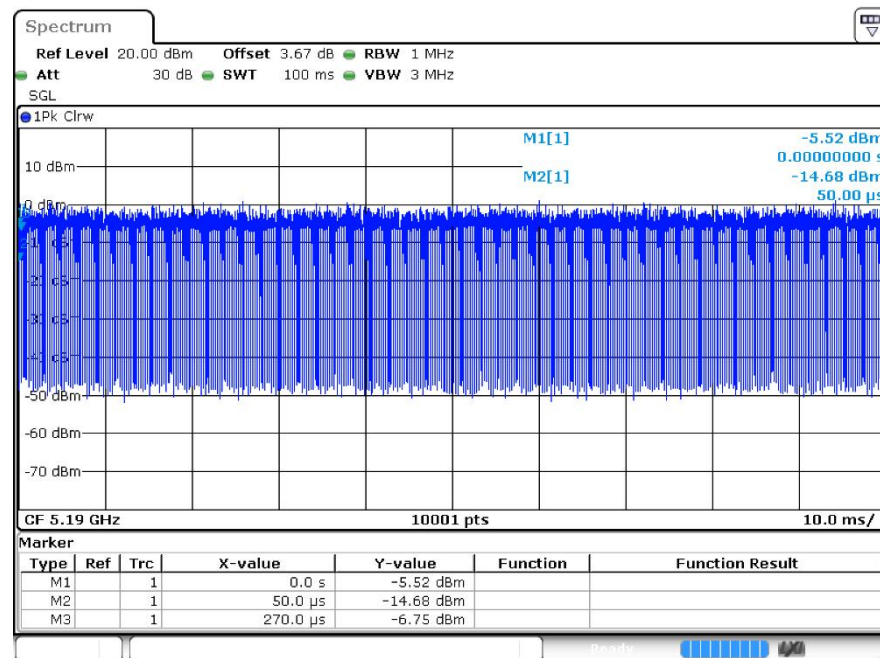
## Duty Cycle ac20 5200MHz Ant1



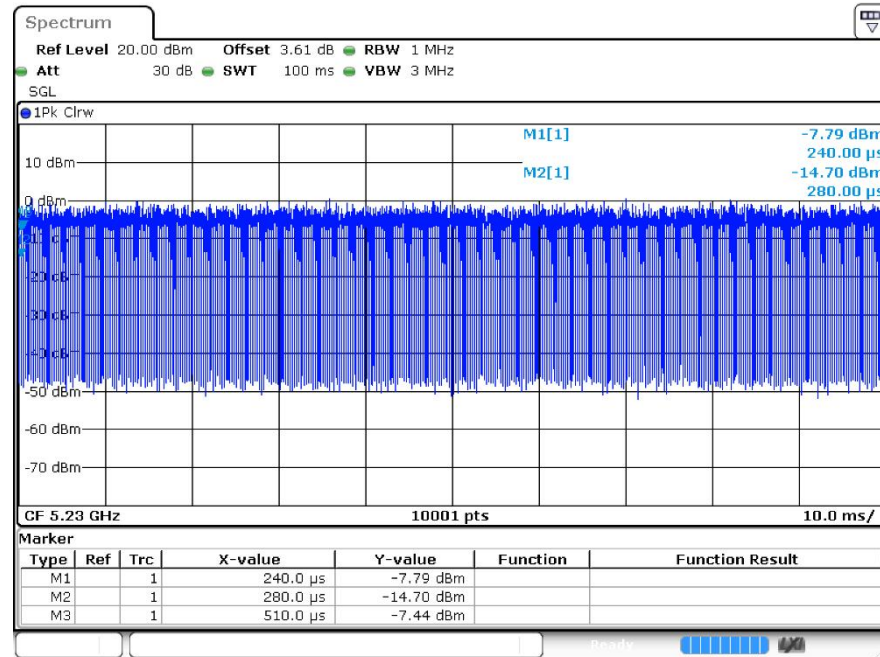
## Duty Cycle ac20 5240MHz Ant1



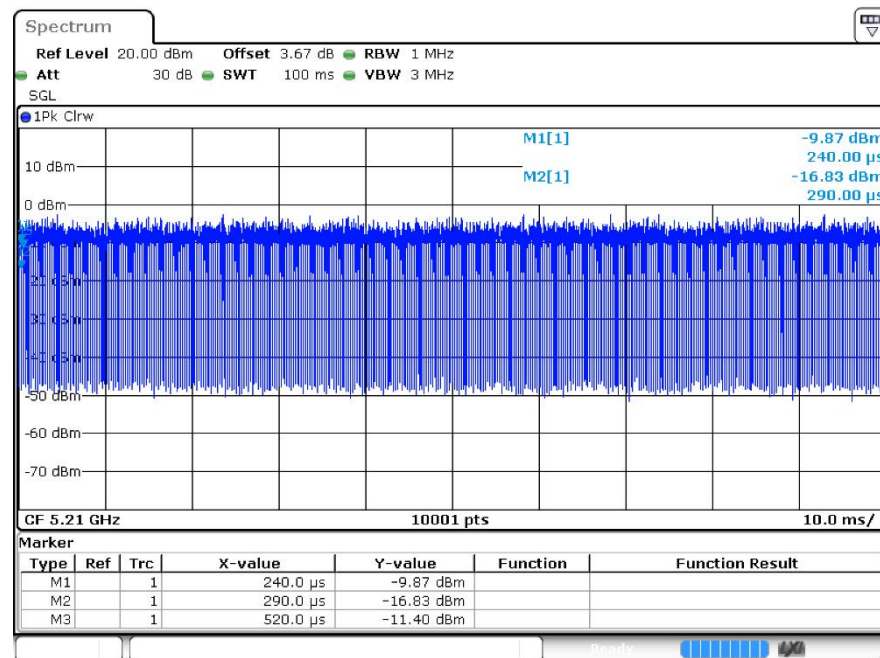
## Duty Cycleac40 5190MHz Ant1



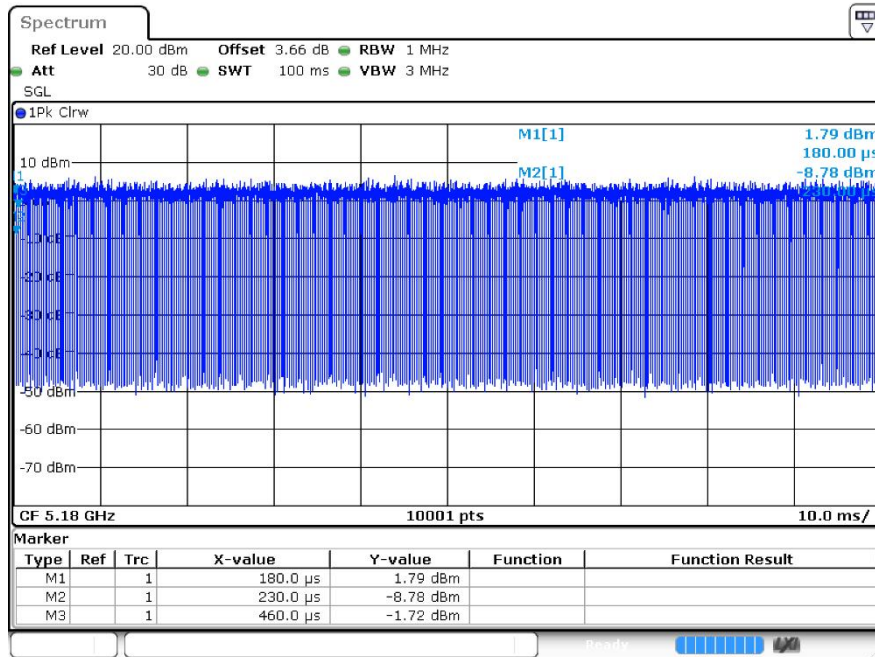
## Duty Cycleac40 5230MHz Ant1



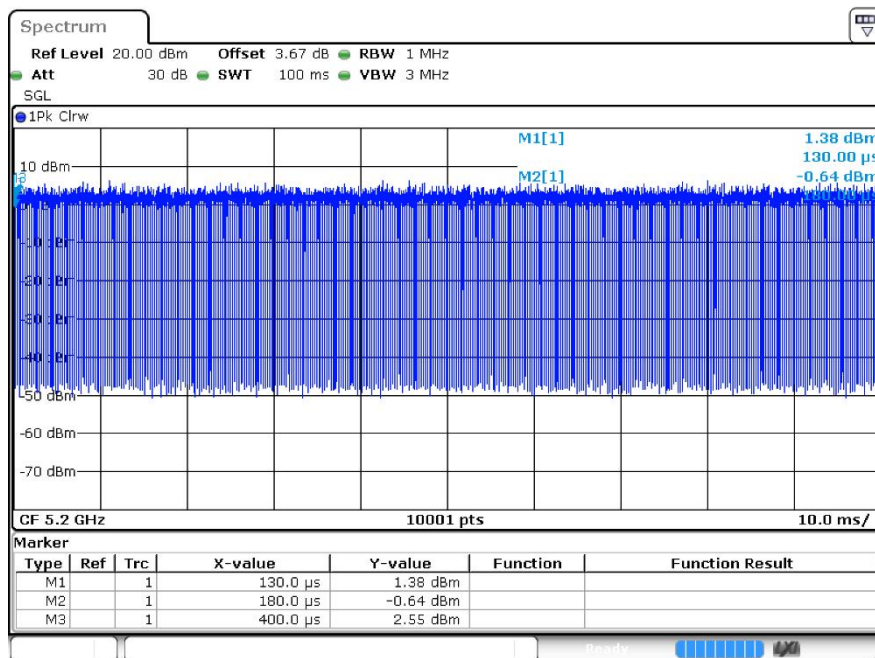
## Duty Cycleac80 5210MHz Ant1



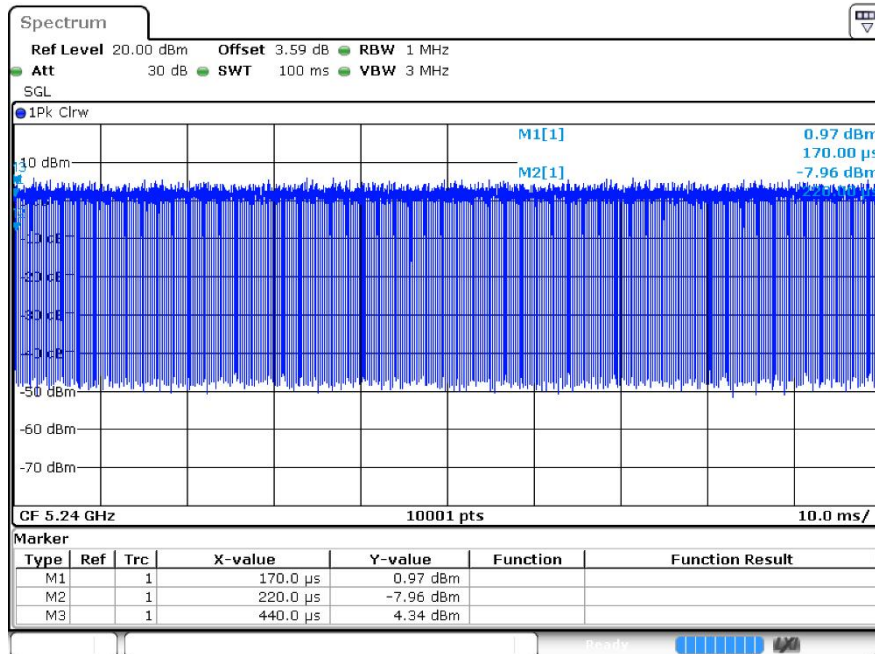
## Duty Cycle ax20 5180MHz Ant1



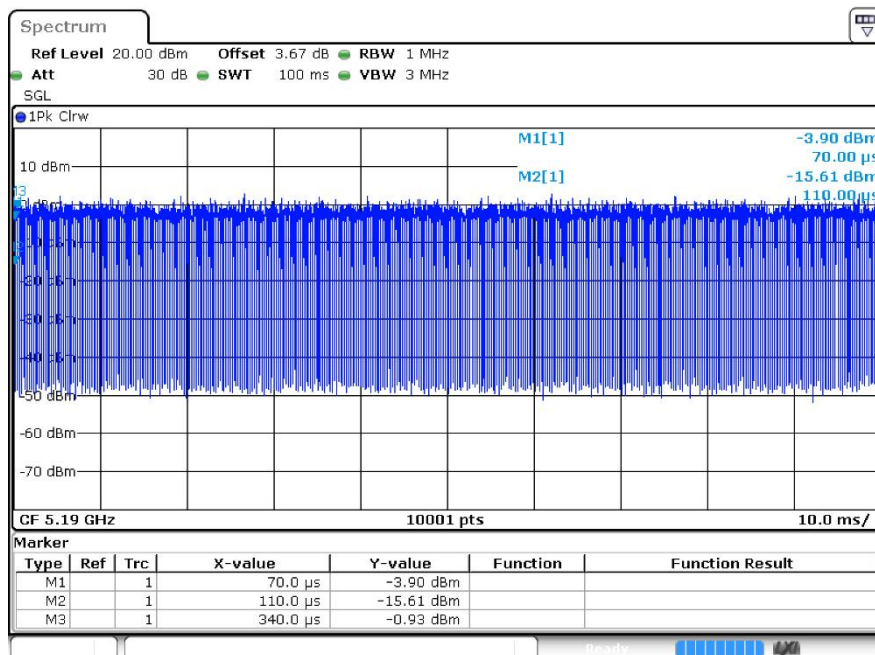
## Duty Cycle ax20 5200MHz Ant1

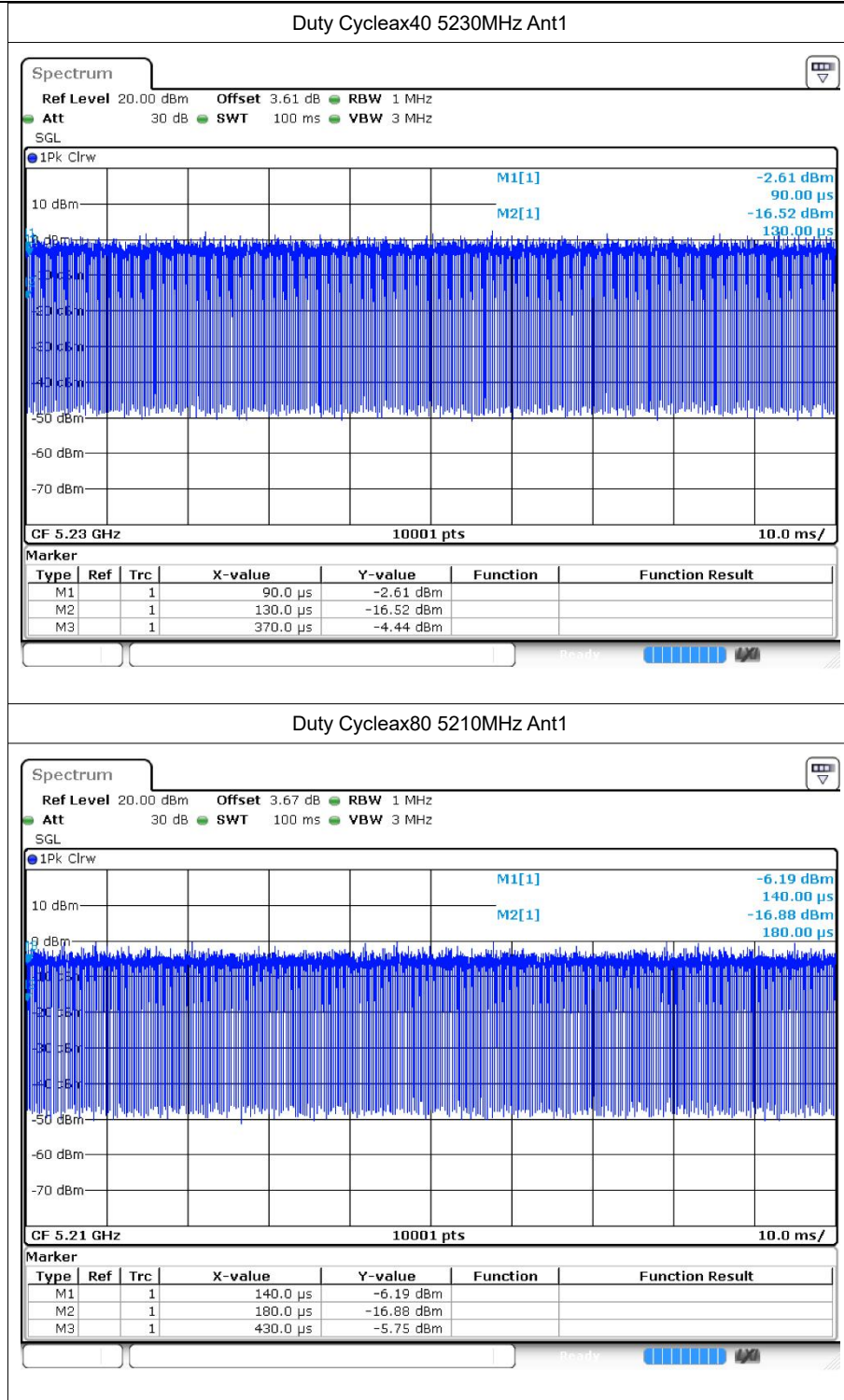


## Duty Cycle ax20 5240MHz Ant1



## Duty Cycleax40 5190MHz Ant1





## 2 Maximum Conducted Output Power

### 2.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|-------------|---------|
| a    | 5180            | Ant1    | 13.44                 | 24          | Pass    |
| a    | 5200            | Ant1    | 13.27                 | 24          | Pass    |
| a    | 5240            | Ant1    | 12.96                 | 24          | Pass    |
| n20  | 5180            | Ant1    | 12.89                 | 24          | Pass    |
| n20  | 5200            | Ant1    | 12.83                 | 24          | Pass    |
| n20  | 5240            | Ant1    | 12.58                 | 24          | Pass    |
| n40  | 5190            | Ant1    | 12.6                  | 24          | Pass    |
| n40  | 5230            | Ant1    | 12.04                 | 24          | Pass    |
| ac20 | 5180            | Ant1    | 12.99                 | 24          | Pass    |
| ac20 | 5200            | Ant1    | 12.85                 | 24          | Pass    |
| ac20 | 5240            | Ant1    | 12.59                 | 24          | Pass    |
| ac40 | 5190            | Ant1    | 12.61                 | 24          | Pass    |
| ac40 | 5230            | Ant1    | 12.19                 | 24          | Pass    |
| ac80 | 5210            | Ant1    | 12.13                 | 24          | Pass    |
| ax20 | 5180            | Ant1    | 13.05                 | 24          | Pass    |
| ax20 | 5200            | Ant1    | 12.97                 | 24          | Pass    |
| ax20 | 5240            | Ant1    | 12.73                 | 24          | Pass    |
| ax40 | 5190            | Ant1    | 12.56                 | 24          | Pass    |
| ax40 | 5230            | Ant1    | 12.32                 | 24          | Pass    |
| ax80 | 5210            | Ant1    | 12.37                 | 24          | Pass    |

Note:

The duty factor has been compensated into the result.

### 3 -26dB Bandwidth

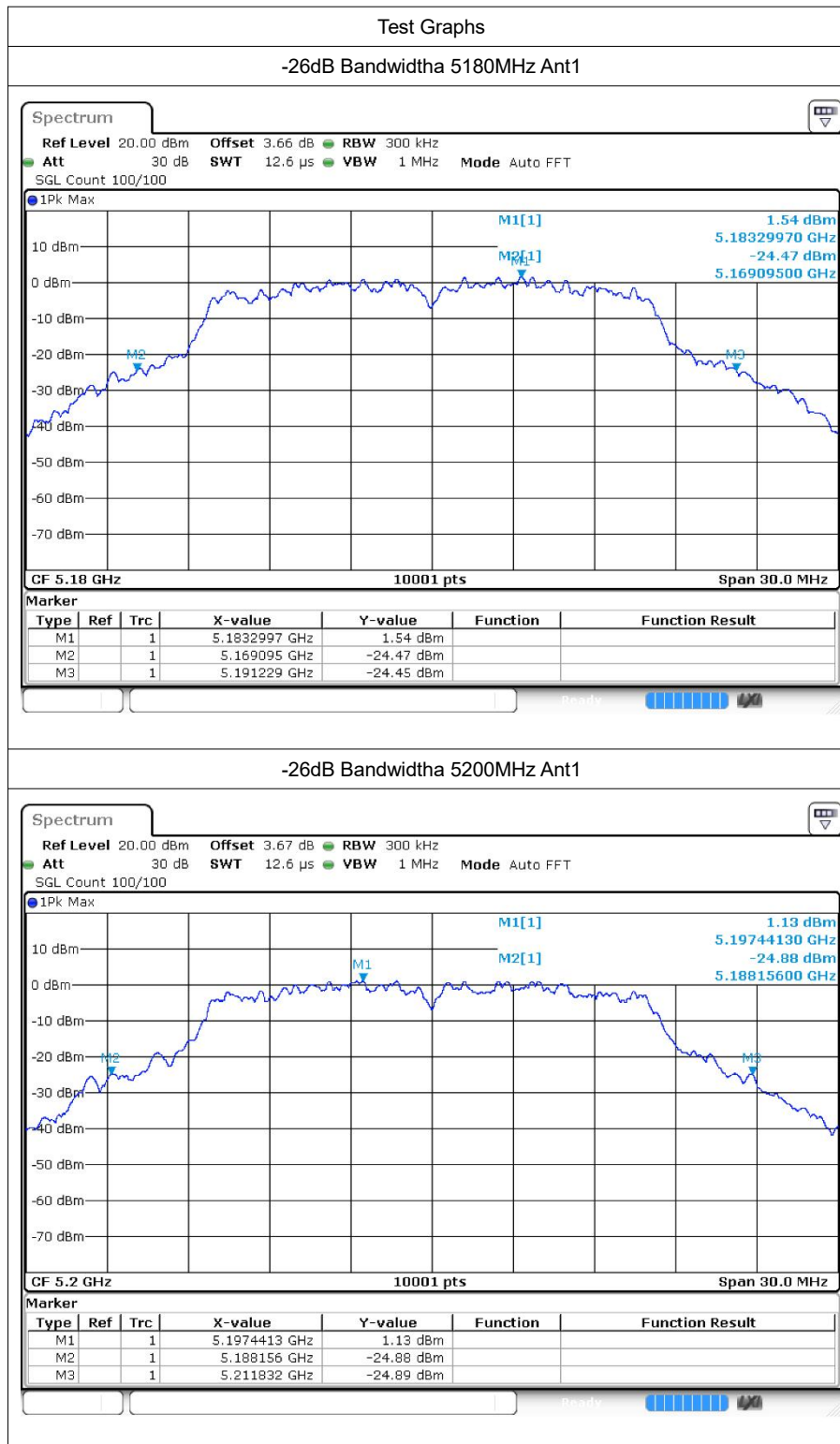
#### 3.1 Test Result

| Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|------|-----------------|---------|------------------------|------------------------------|---------|
| a    | 5180            | Ant1    | 22.134                 | 0.5                          | Pass    |
| a    | 5200            | Ant1    | 23.676                 | 0.5                          | Pass    |
| a    | 5240            | Ant1    | 22.494                 | 0.5                          | Pass    |
| n20  | 5180            | Ant1    | 22.383                 | 0.5                          | Pass    |
| n20  | 5200            | Ant1    | 22.89                  | 0.5                          | Pass    |
| n20  | 5240            | Ant1    | 23.127                 | 0.5                          | Pass    |
| n40  | 5190            | Ant1    | 43.14                  | 0.5                          | Pass    |
| n40  | 5230            | Ant1    | 41.772                 | 0.5                          | Pass    |
| ac20 | 5180            | Ant1    | 22.599                 | 0.5                          | Pass    |
| ac20 | 5200            | Ant1    | 23.289                 | 0.5                          | Pass    |
| ac20 | 5240            | Ant1    | 22.884                 | 0.5                          | Pass    |
| ac40 | 5190            | Ant1    | 42.222                 | 0.5                          | Pass    |
| ac40 | 5230            | Ant1    | 41.436                 | 0.5                          | Pass    |
| ac80 | 5210            | Ant1    | 84.816                 | 0.5                          | Pass    |
| ax20 | 5180            | Ant1    | 22.986                 | 0.5                          | Pass    |
| ax20 | 5200            | Ant1    | 22.275                 | 0.5                          | Pass    |
| ax20 | 5240            | Ant1    | 21.903                 | 0.5                          | Pass    |
| ax40 | 5190            | Ant1    | 42.378                 | 0.5                          | Pass    |
| ax40 | 5230            | Ant1    | 42.39                  | 0.5                          | Pass    |
| ax80 | 5210            | Ant1    | 82.752                 | 0.5                          | Pass    |

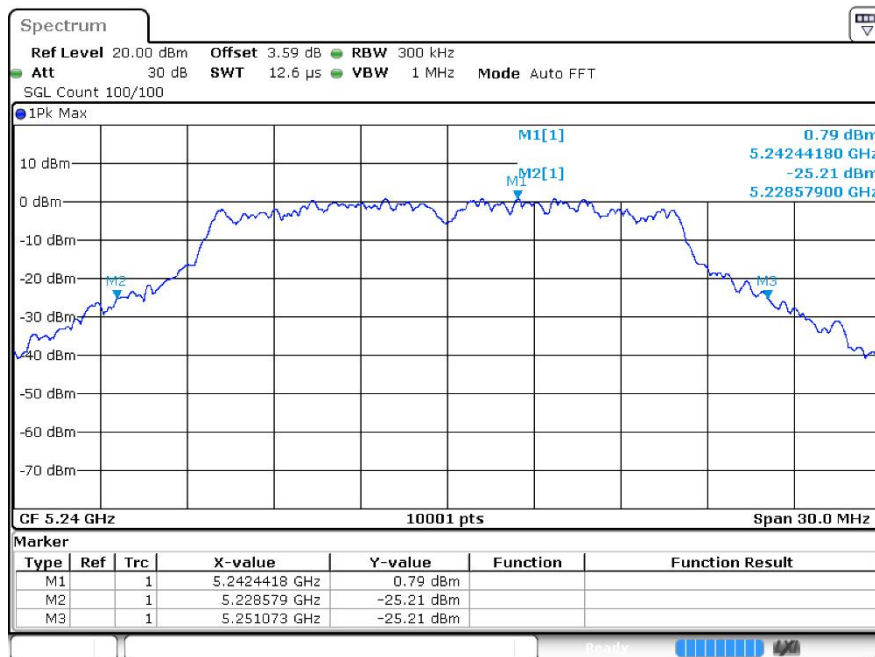
Note:

The duty factor has been compensated into the result.

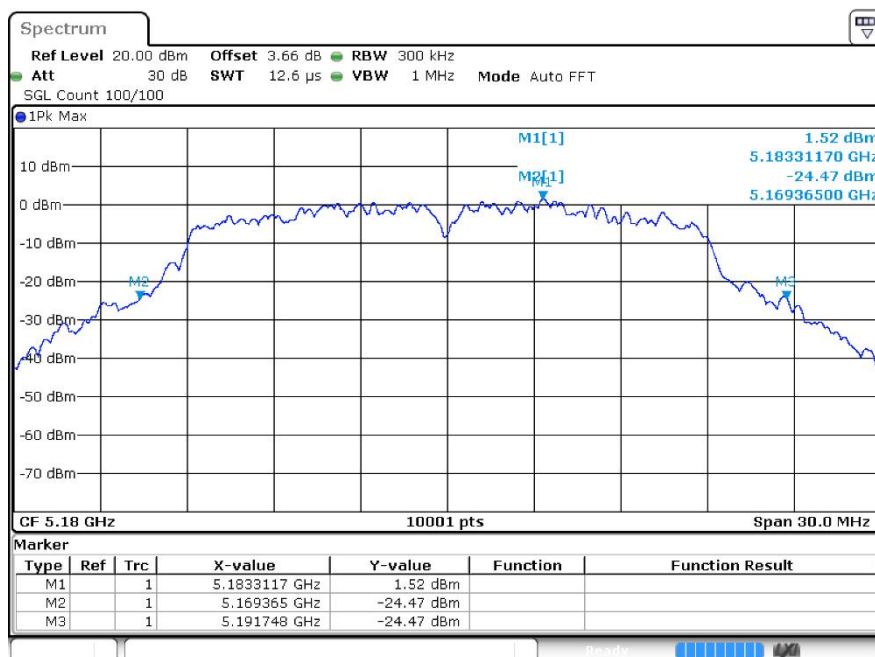
### 3.2 Test Graphs



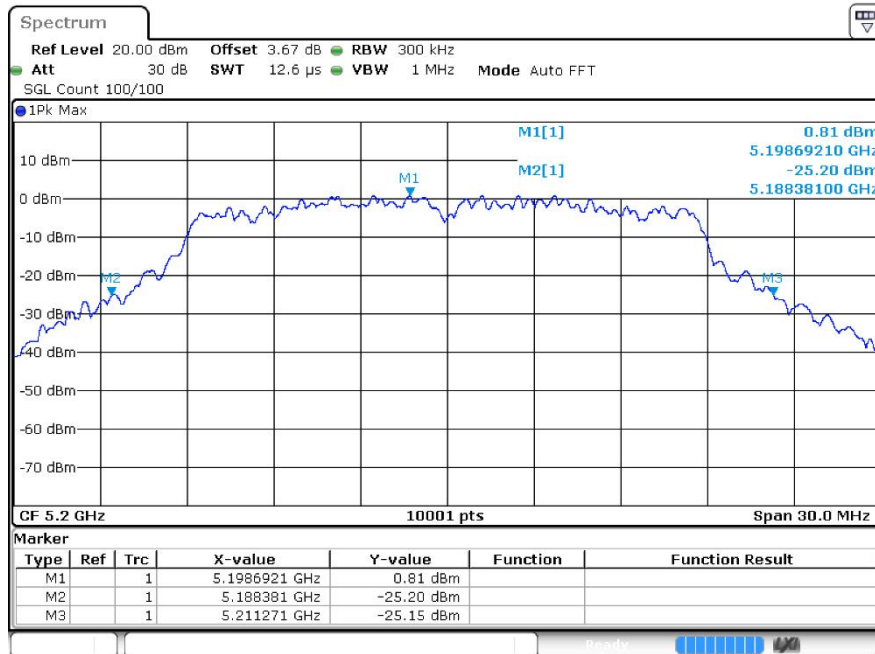
## -26dB Bandwidth 5240MHz Ant1



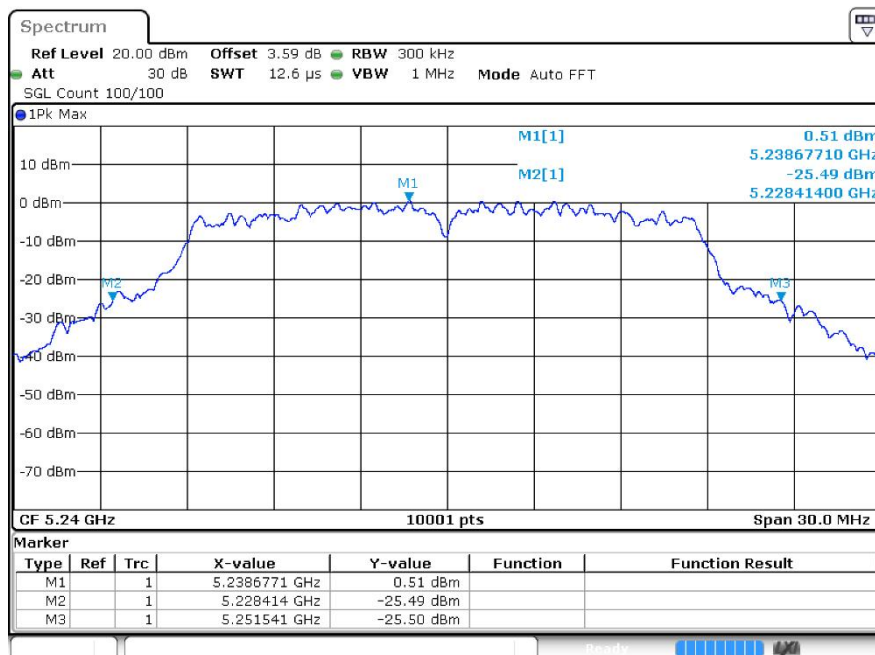
## -26dB Bandwidth n20 5180MHz Ant1



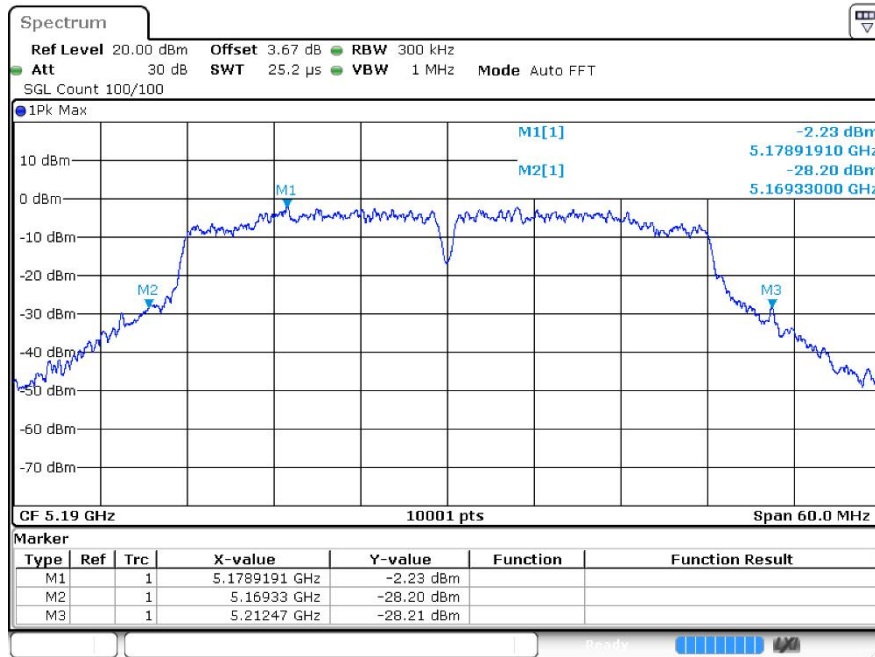
## -26dB Bandwidth n20 5200MHz Ant1



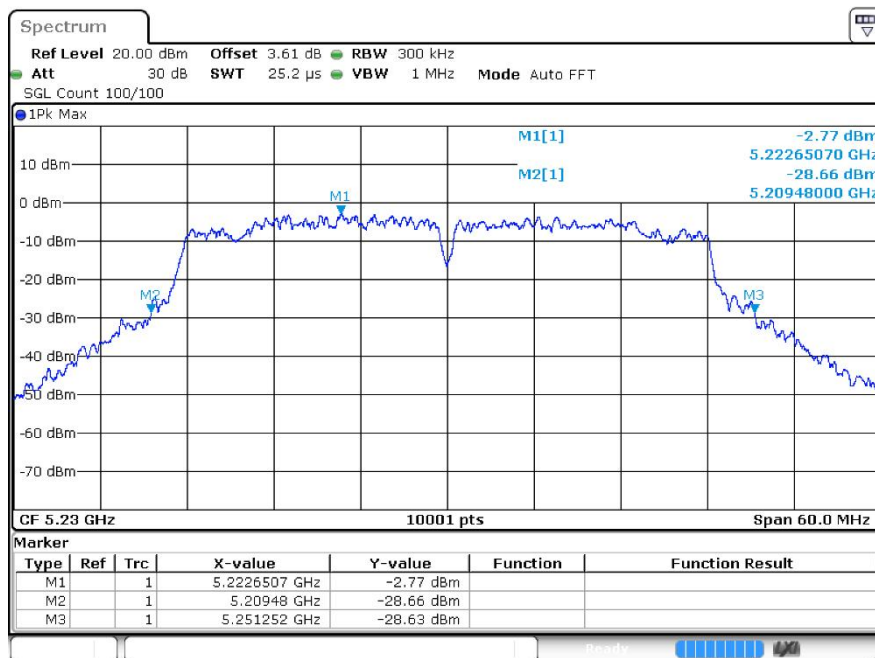
## -26dB Bandwidth n20 5240MHz Ant1



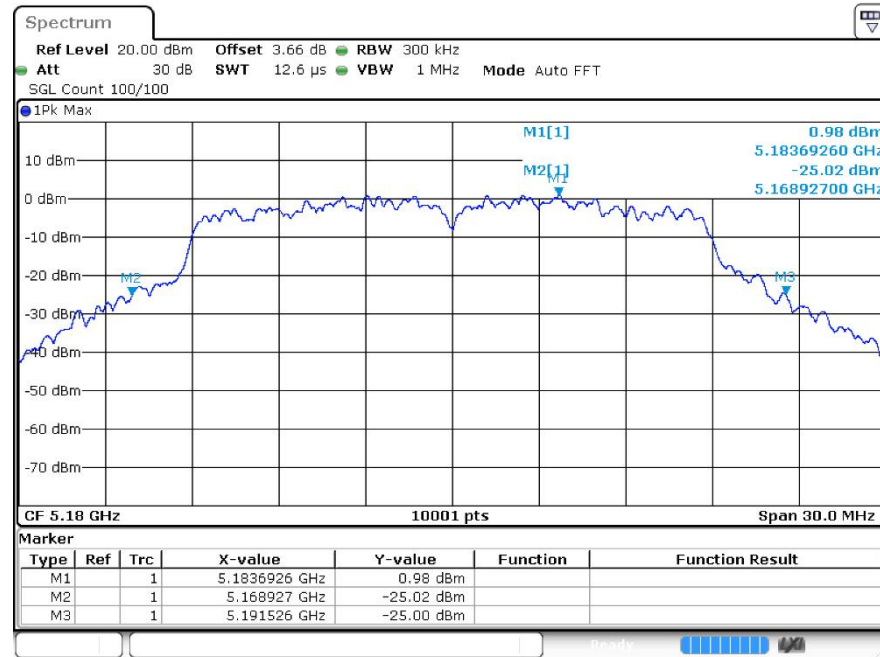
## -26dB Bandwidthn40 5190MHz Ant1



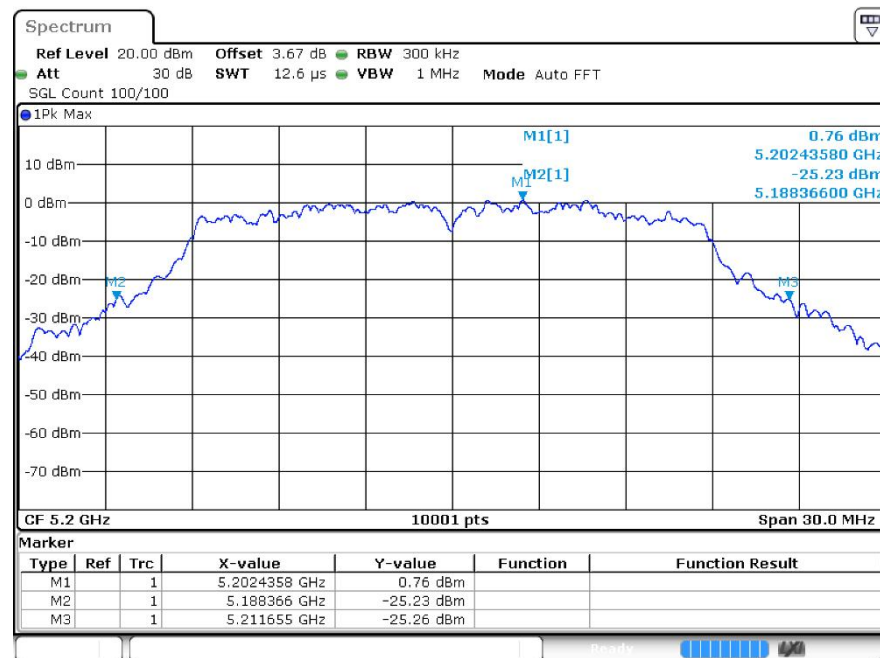
## -26dB Bandwidthn40 5230MHz Ant1



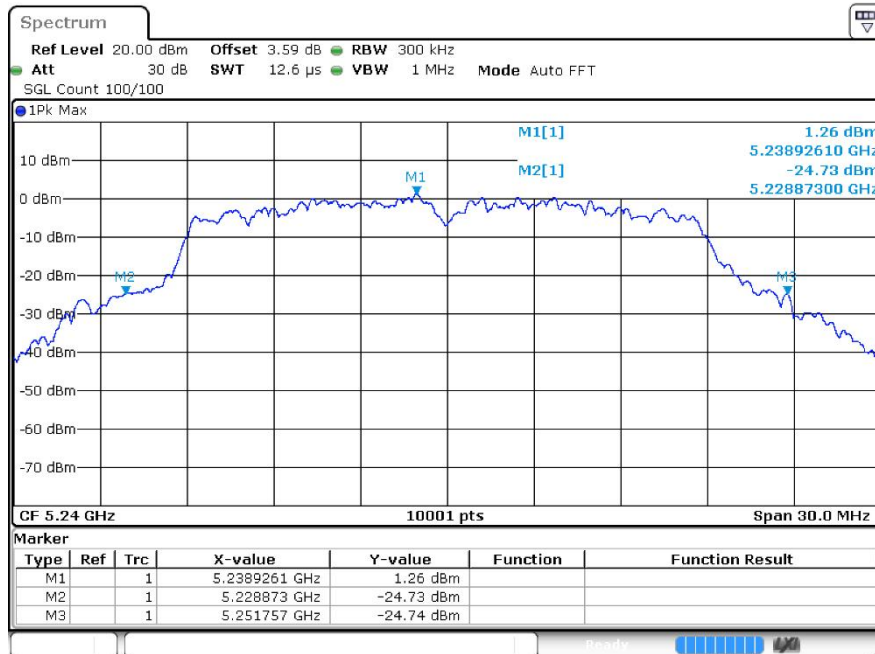
## -26dB Bandwidth ac20 5180MHz Ant1



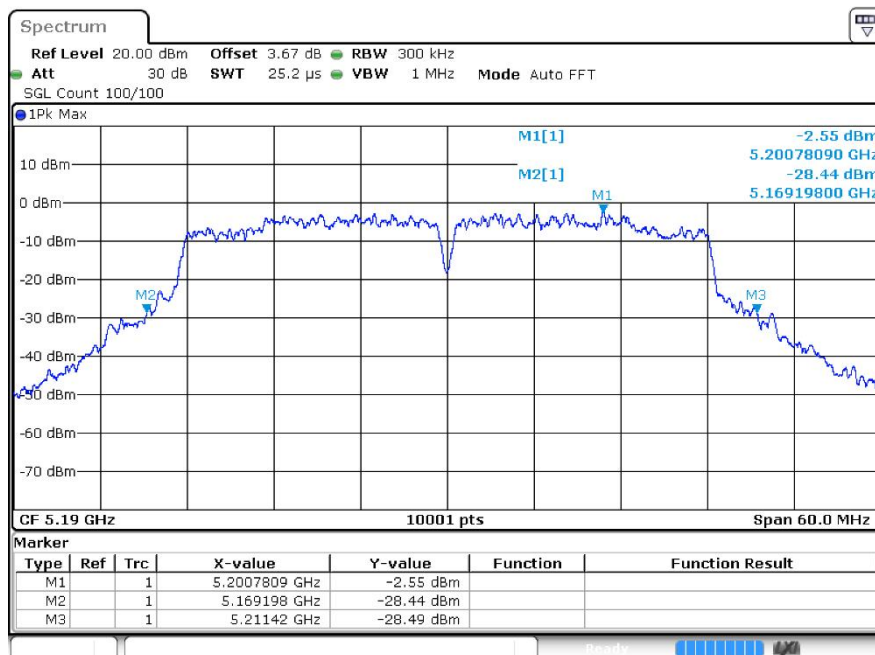
## -26dB Bandwidth ac20 5200MHz Ant1



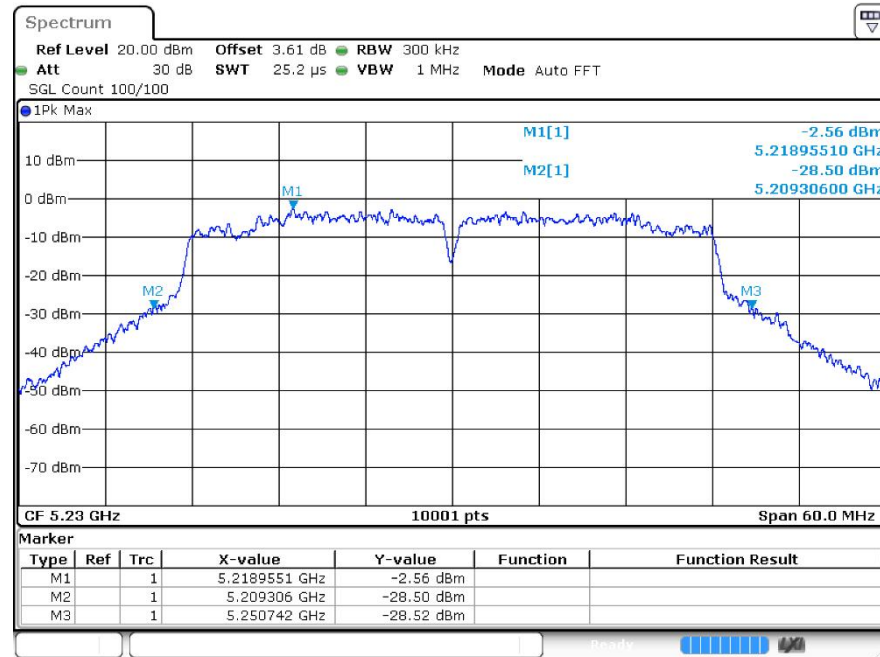
## -26dB Bandwidth ac20 5240MHz Ant1



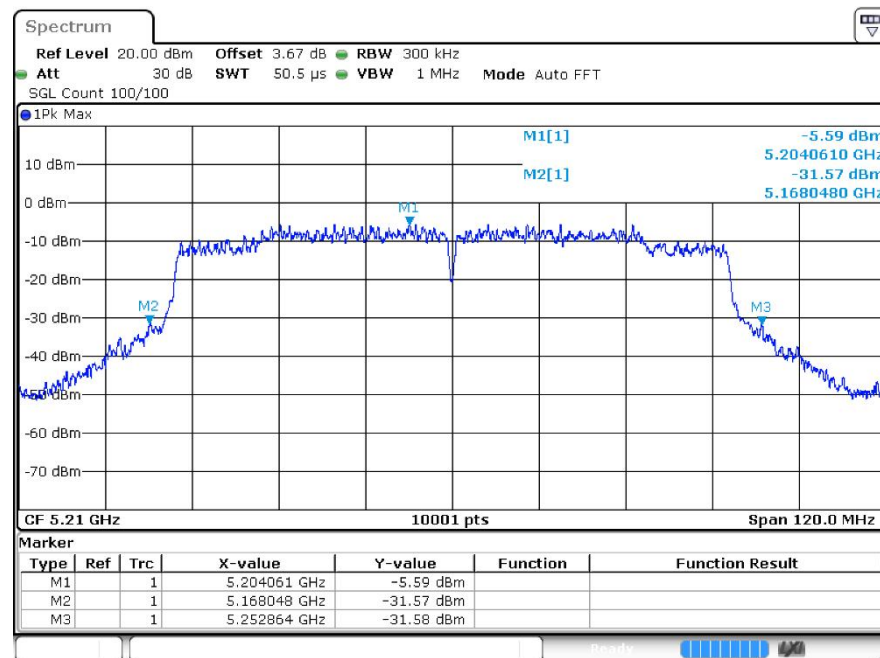
## -26dB Bandwidthac40 5190MHz Ant1



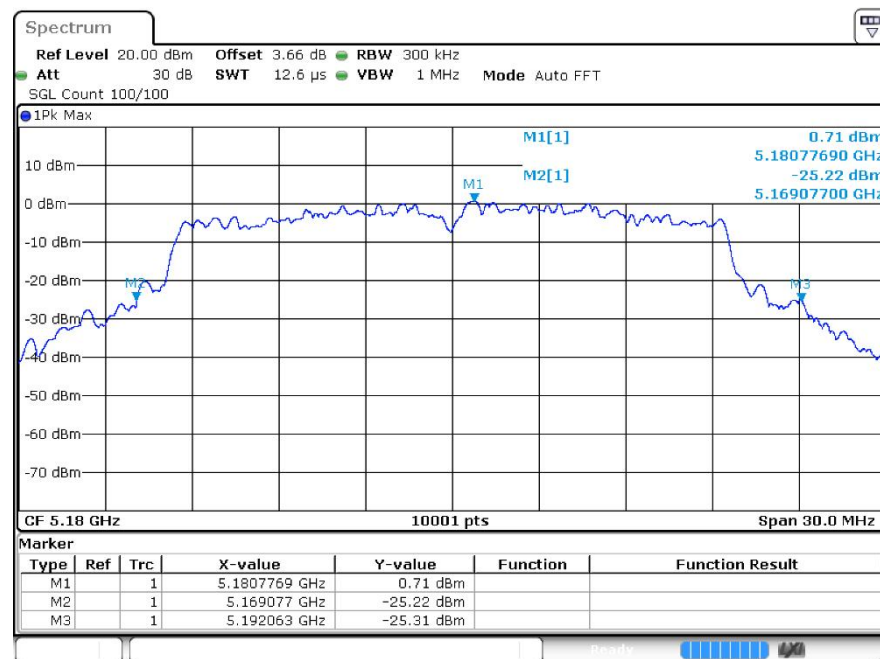
## -26dB Bandwidthac40 5230MHz Ant1



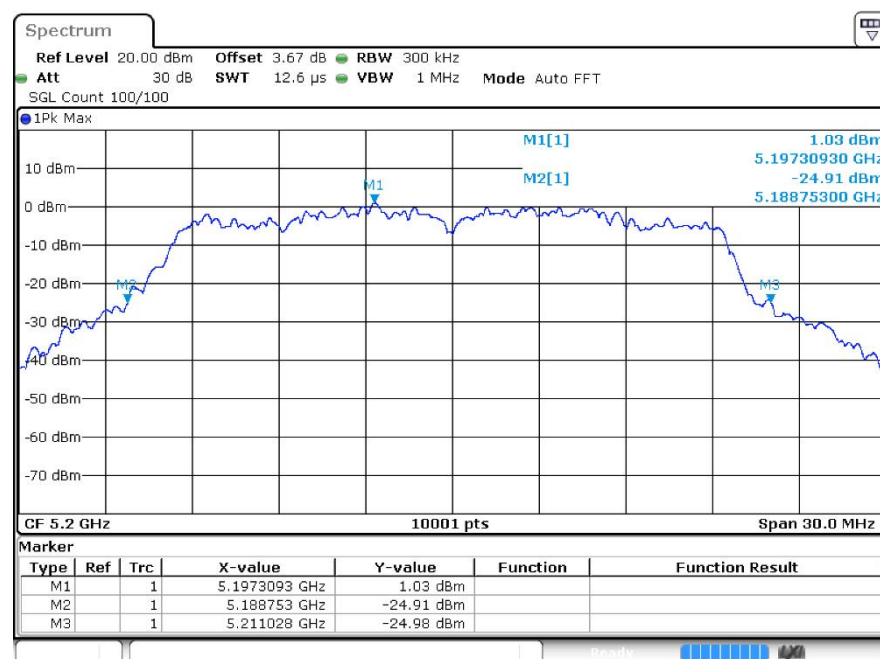
## -26dB Bandwidthac80 5210MHz Ant1



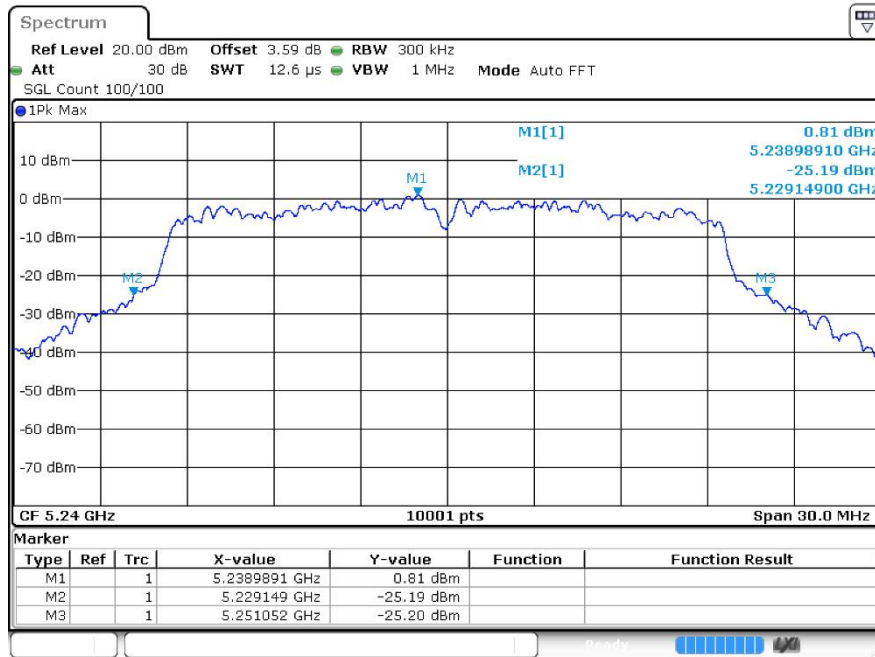
## -26dB Bandwidth ax20 5180MHz Ant1



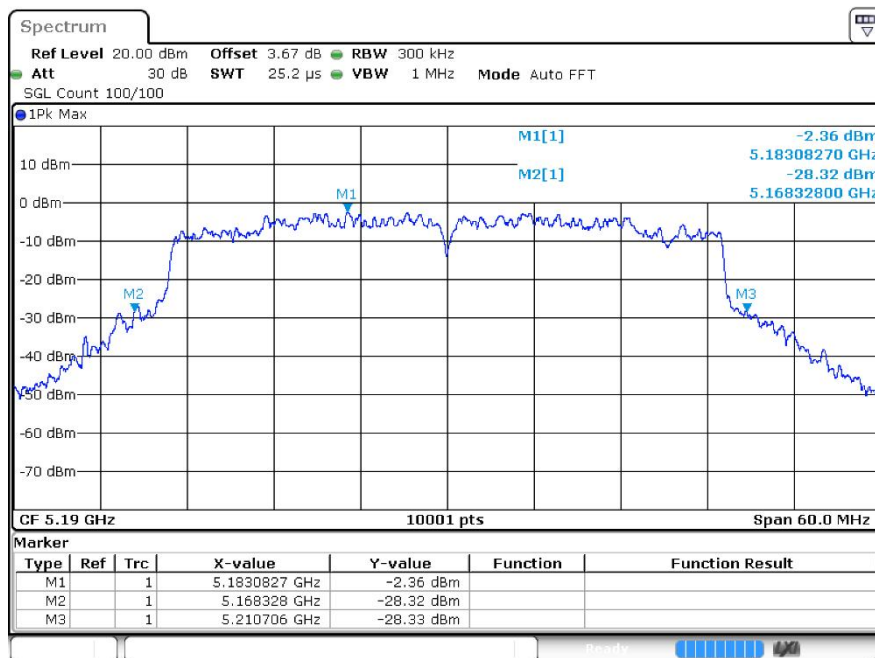
## -26dB Bandwidth ax20 5200MHz Ant1



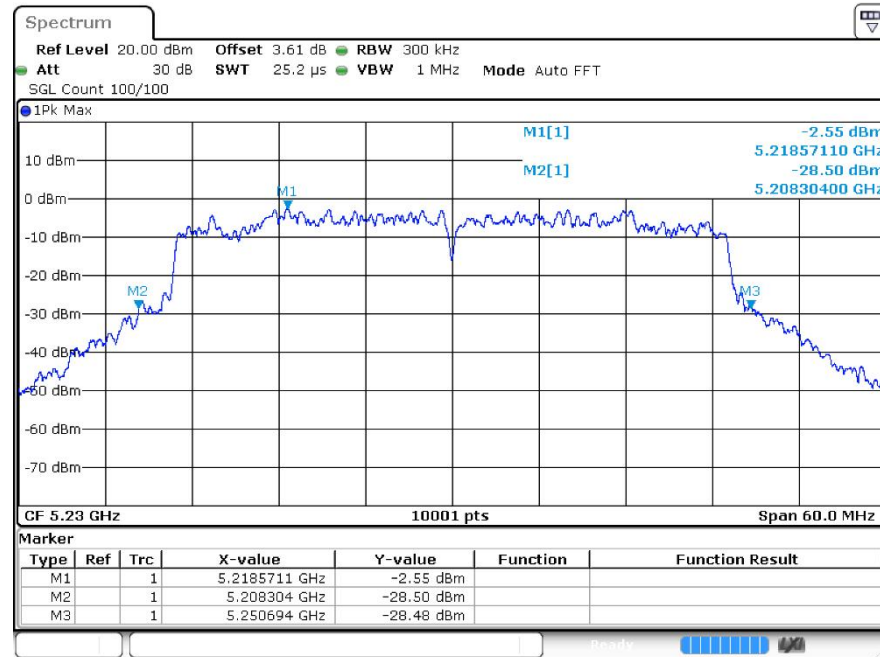
## -26dB Bandwidth ax20 5240MHz Ant1



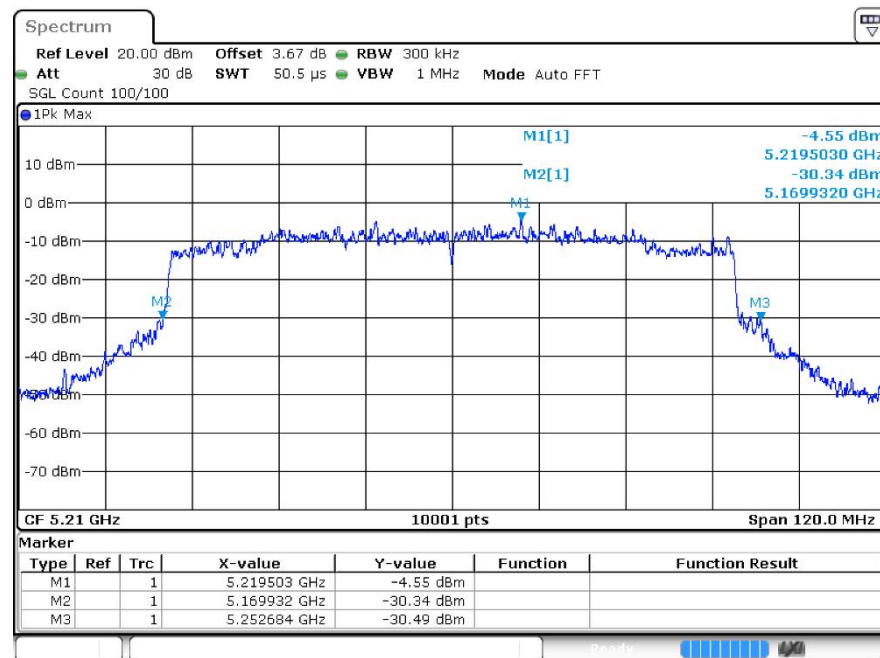
## -26dB Bandwidthax40 5190MHz Ant1



## -26dB Bandwidthax40 5230MHz Ant1



## -26dB Bandwidthax80 5210MHz Ant1



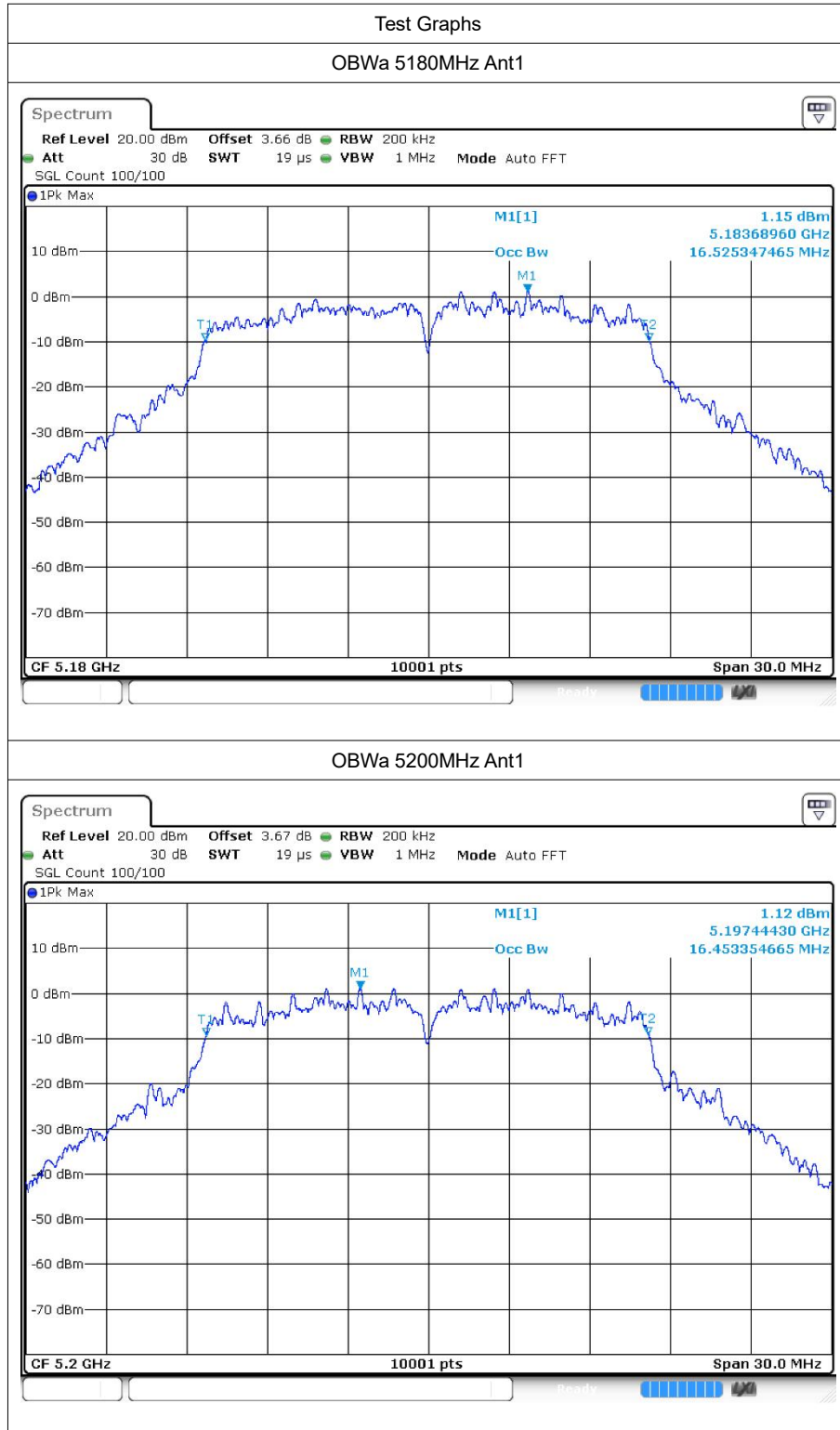


## 4 Occupied Channel Bandwidth

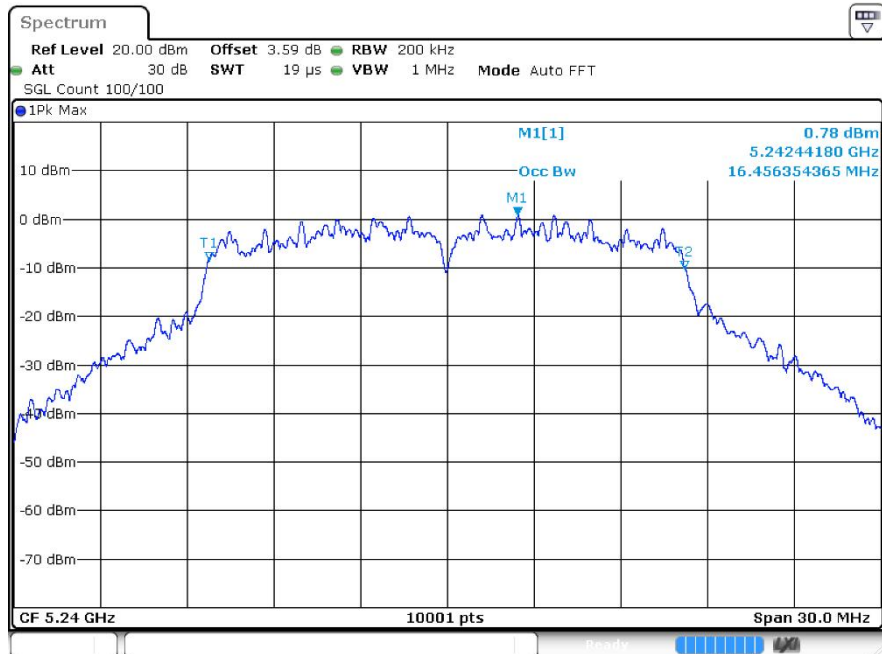
### 4.1 Test Result

| Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|------|-----------------|---------|---------------|
| a    | 5180            | Ant1    | 16.525        |
| a    | 5200            | Ant1    | 16.453        |
| a    | 5240            | Ant1    | 16.456        |
| n20  | 5180            | Ant1    | 17.704        |
| n20  | 5200            | Ant1    | 17.593        |
| n20  | 5240            | Ant1    | 17.578        |
| n40  | 5190            | Ant1    | 36.032        |
| n40  | 5230            | Ant1    | 35.99         |
| ac20 | 5180            | Ant1    | 17.587        |
| ac20 | 5200            | Ant1    | 17.599        |
| ac20 | 5240            | Ant1    | 17.611        |
| ac40 | 5190            | Ant1    | 36.14         |
| ac40 | 5230            | Ant1    | 36.2          |
| ac80 | 5210            | Ant1    | 75.136        |
| ax20 | 5180            | Ant1    | 18.82         |
| ax20 | 5200            | Ant1    | 18.751        |
| ax20 | 5240            | Ant1    | 18.868        |
| ax40 | 5190            | Ant1    | 37.244        |
| ax40 | 5230            | Ant1    | 37.514        |
| ax80 | 5210            | Ant1    | 76.612        |

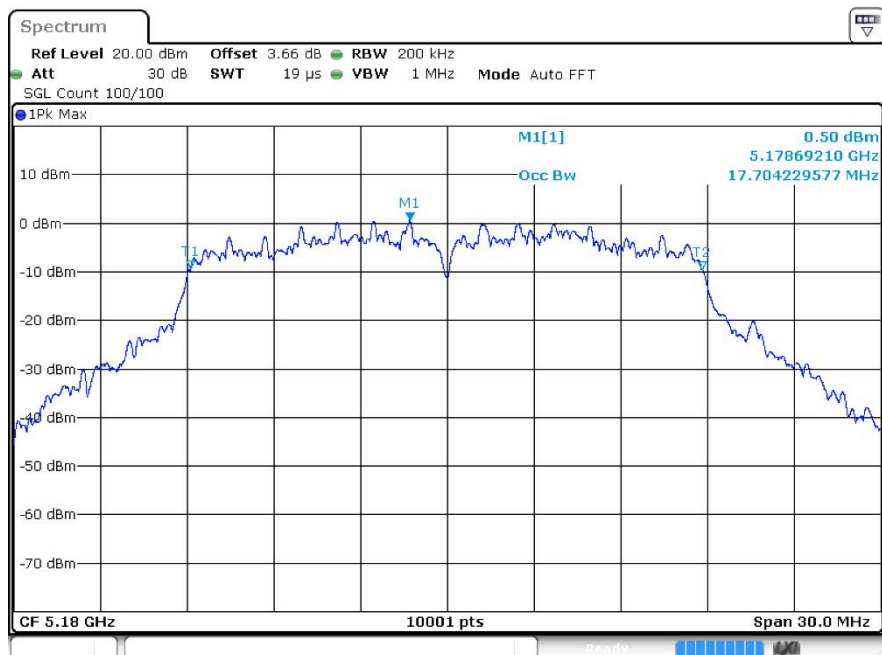
## 4.2 Test Graphs



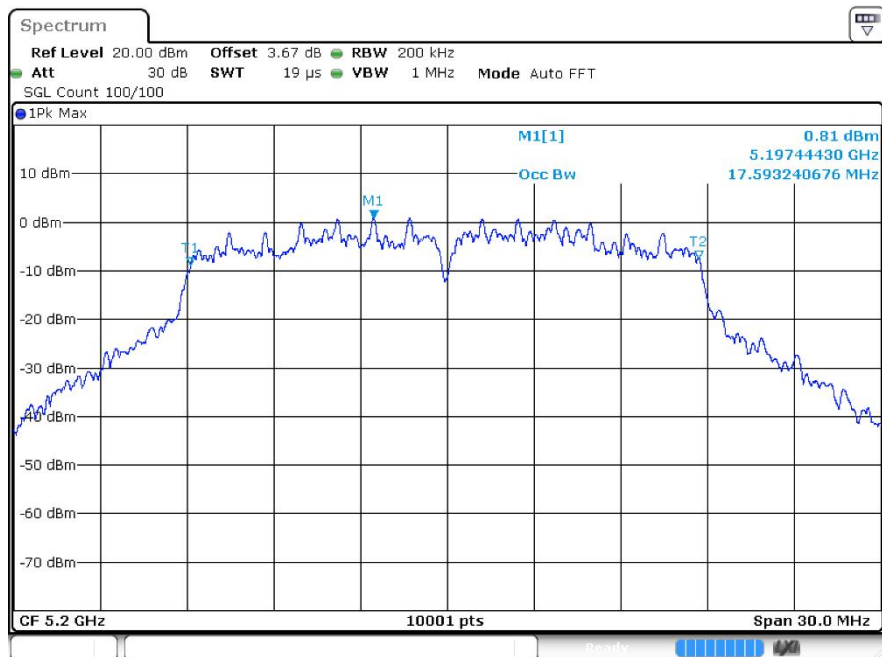
## OBWa 5240MHz Ant1



## OBW n20 5180MHz Ant1



OBW n20 5200MHz Ant1



OBW n20 5240MHz Ant1

