# Appendix E

## RF Test Data for 5.8GWIFI(Conducted Measurement)

**Product Name: E Ink Tablet, Smart E Ink Tablet, ePaper Tablet, E-bag Tablet, E-book Tablet, E-reader Tablet, Eyes protection E Ink Tablet, E-paper Tablet, Color E Ink Tablet, Color ePaper Tablet**

**Trade Mark: BOOX**

**Test Model: Leaf2**

**Environmental Conditions**

| | |
|---|---|
| Temperature: | 25.2℃ |
| Relative Humidity: | 52.4% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Simba Huang |
| Supervised by: | Seal Chen |

# Contents

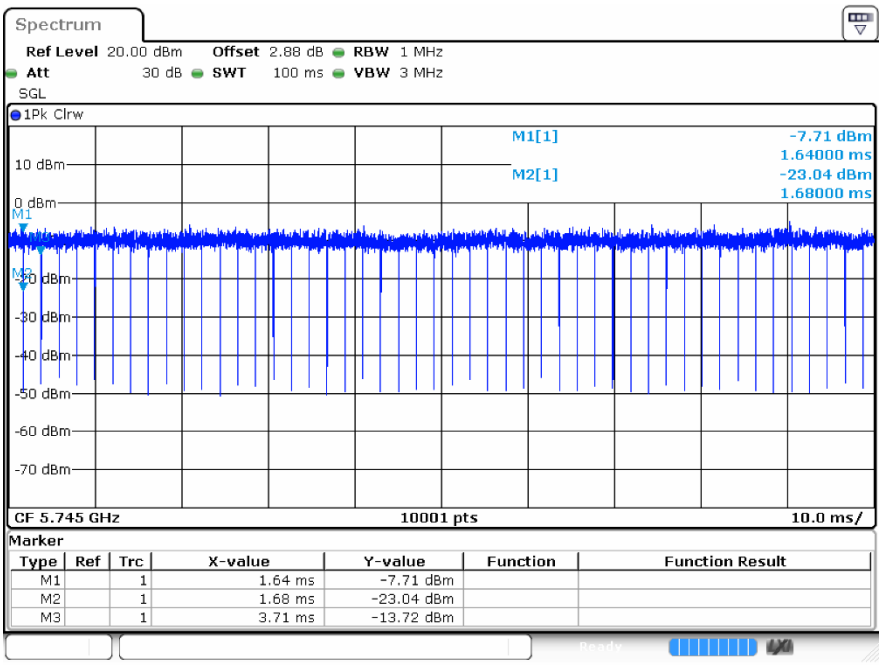
# 1 Duty Cycle

## 1.1 Test Result

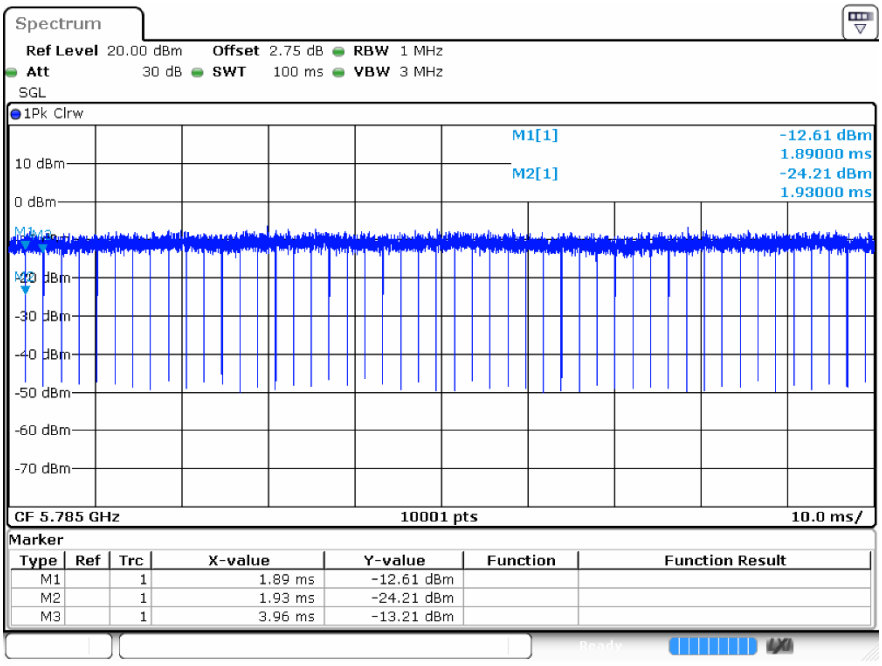
| Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|---|---|---|---|---|---|
| a | 5745 | Ant1 | 98.56 | 0.06 | 0.49 |
| a | 5785 | Ant1 | 98.8 | 0.05 | 0.49 |
| a | 5825 | Ant1 | 98.32 | 0.07 | 0.5 |
| n20 | 5745 | Ant1 | 98.44 | 0.07 | 0.53 |
| n20 | 5785 | Ant1 | 98.7 | 0.06 | 0.53 |
| n20 | 5825 | Ant1 | 98.18 | 0.08 | 0.53 |
| n40 | 5755 | Ant1 | 97.49 | 0.11 | 1.08 |
| n40 | 5795 | Ant1 | 97.5 | 0.11 | 1.08 |
| ac20 | 5745 | Ant1 | 98.6 | 0.06 | 0.53 |
| ac20 | 5785 | Ant1 | 98.61 | 0.06 | 0.53 |
| ac20 | 5825 | Ant1 | 98.19 | 0.08 | 0.53 |
| ac40 | 5755 | Ant1 | 97.52 | 0.11 | 1.06 |
| ac40 | 5795 | Ant1 | 97.49 | 0.11 | 1.06 |
| ac80 | 5775 | Ant1 | 94.71 | 0.24 | 2.22 |

## 1.2 Test Graphs

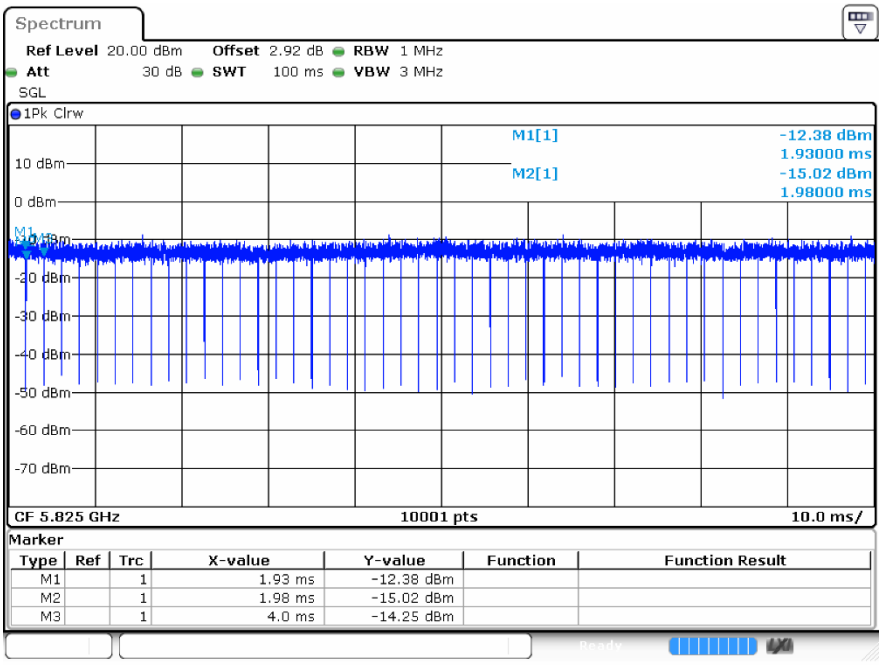
| Test Graphs |
| --- |
| Duty Cycle a 5745MHz Ant1 |



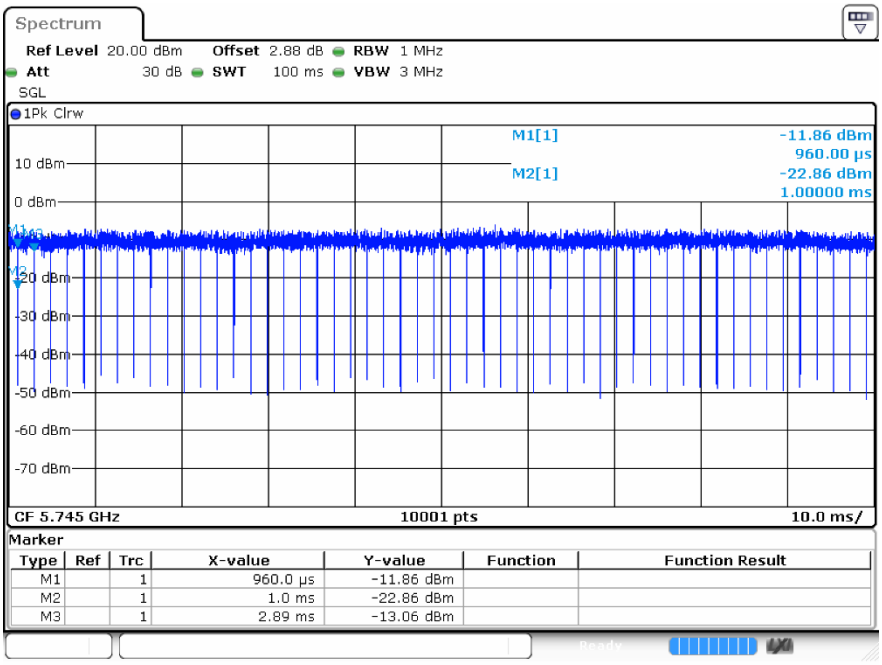

| Duty Cycle a 5785MHz Ant1 |
| --- |



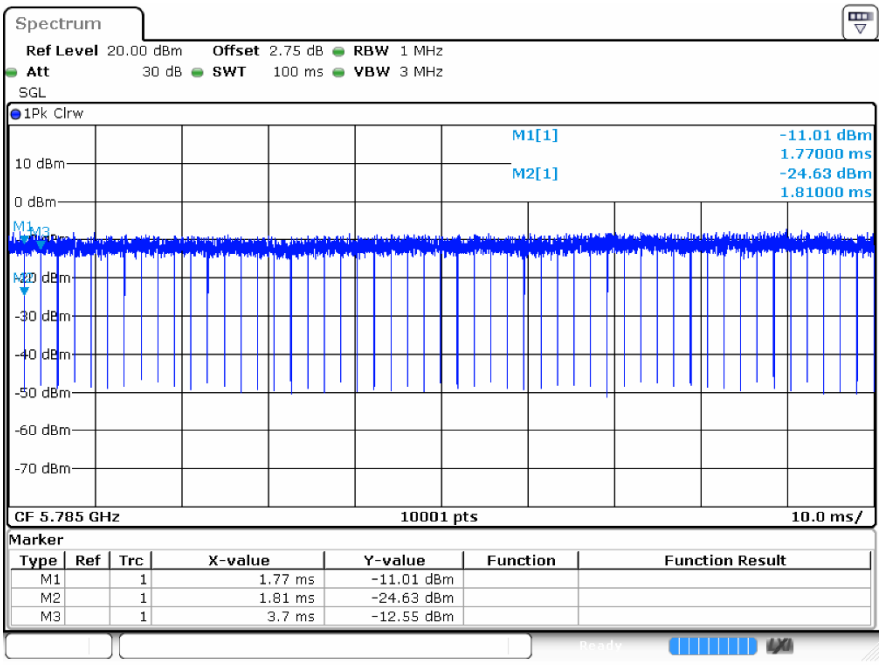
Duty Cycle a 5825MHz Ant1



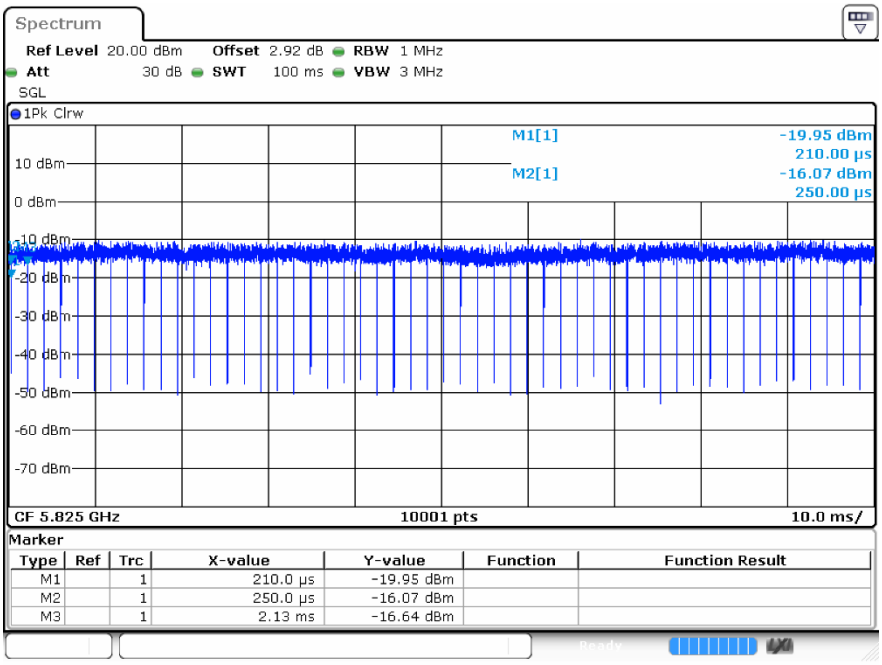

Duty Cycle n20 5745MHz Ant1



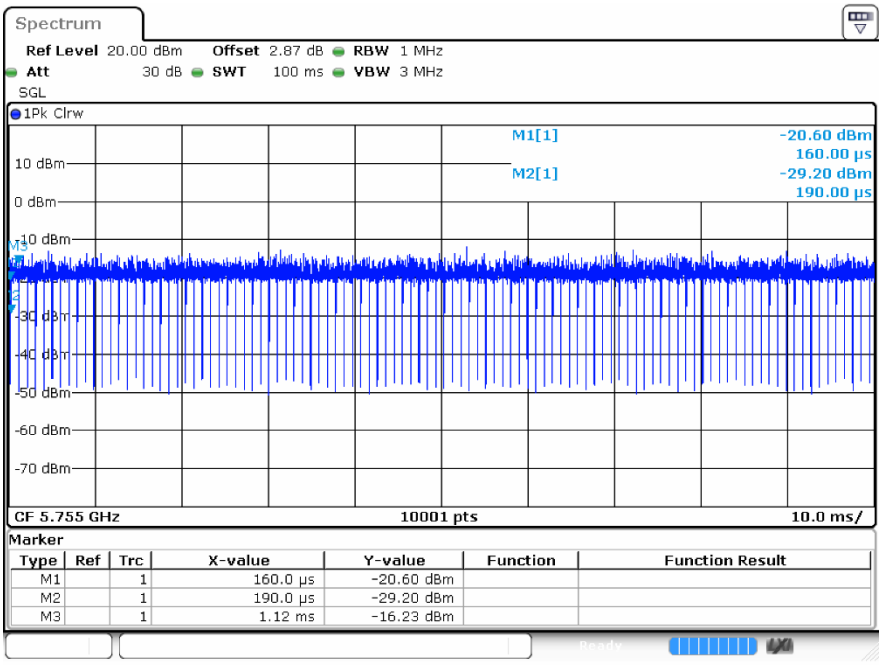
Duty Cycle n20 5785MHz Ant1



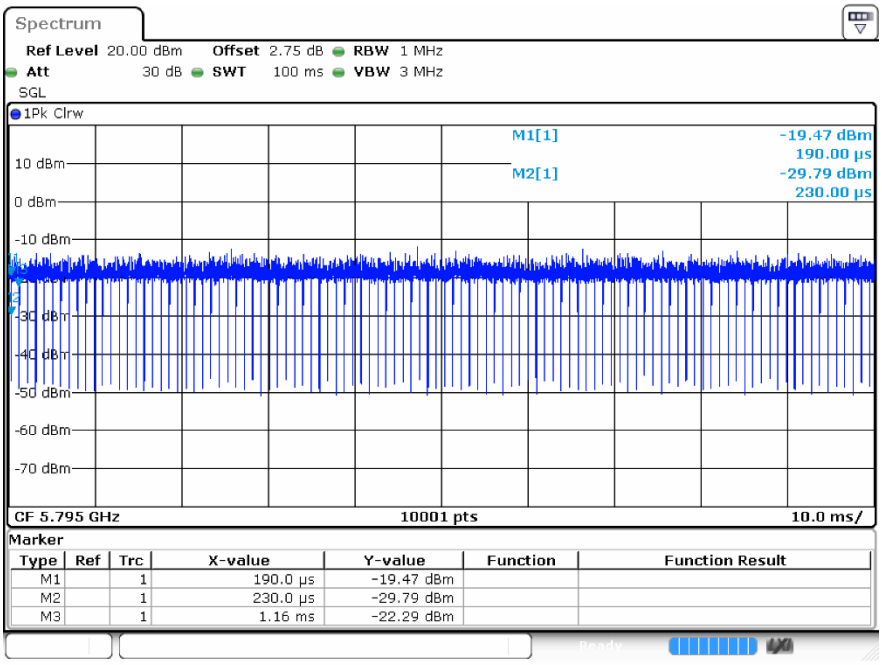

Duty Cycle n20 5825MHz Ant1



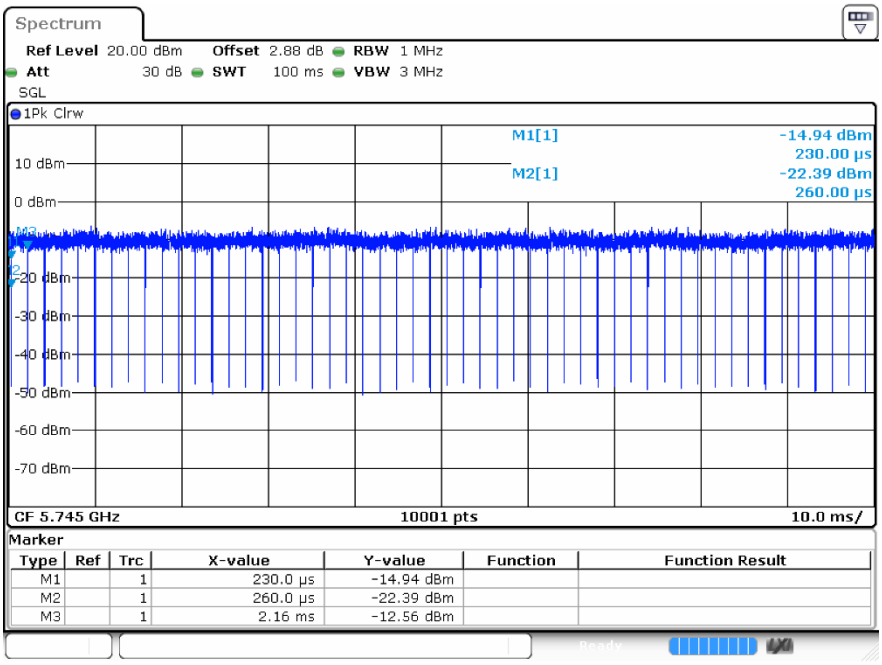
Duty Cycle n40 5755MHz Ant1



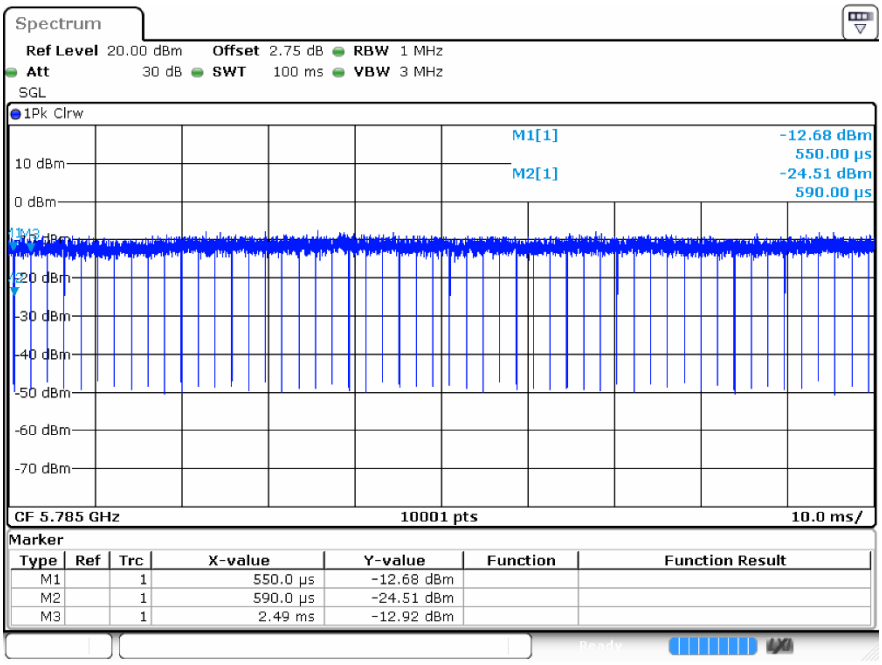

Duty Cycle n40 5795MHz Ant1



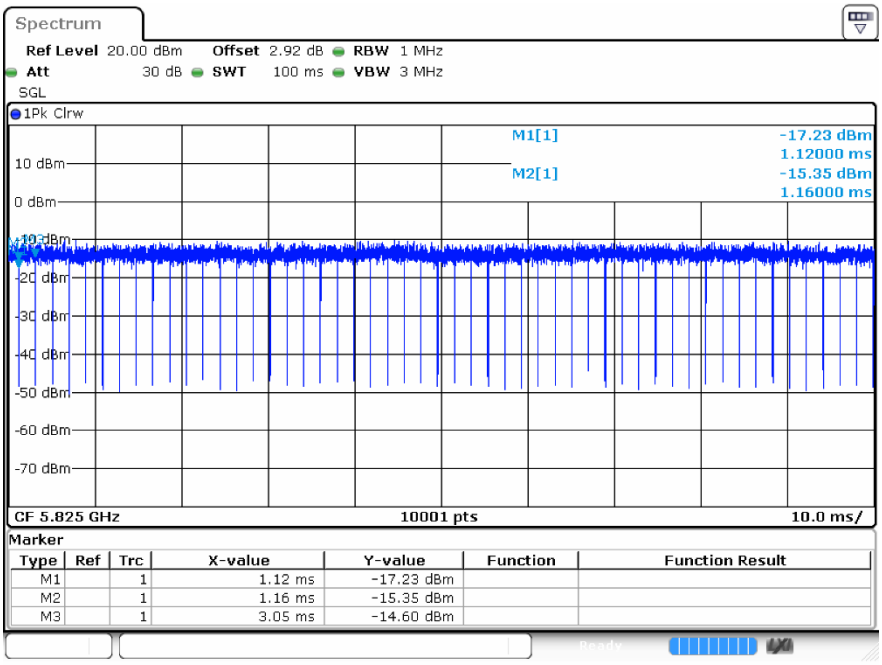
Duty Cycle ac20 5745MHz Ant1



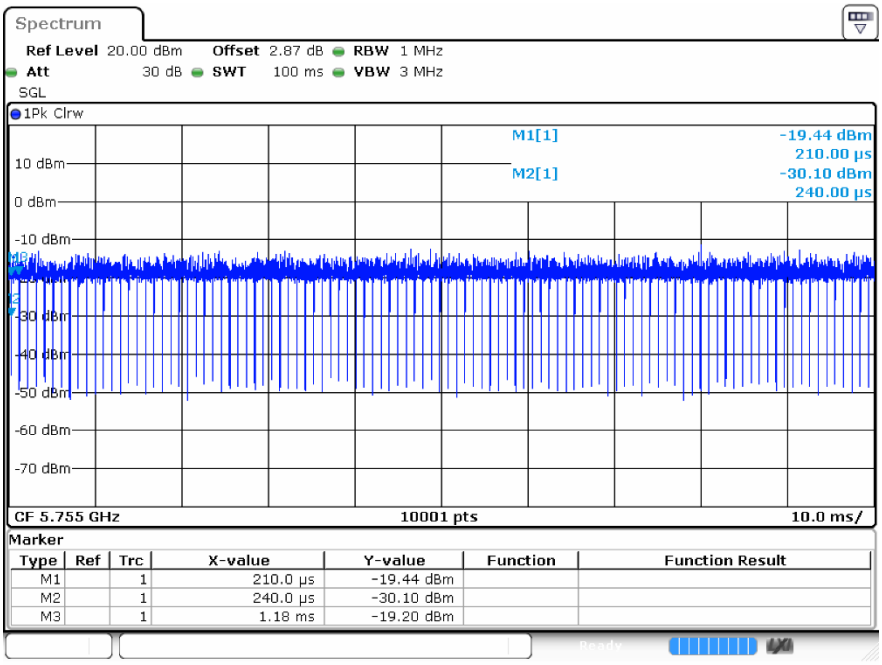

Duty Cycle ac20 5785MHz Ant1



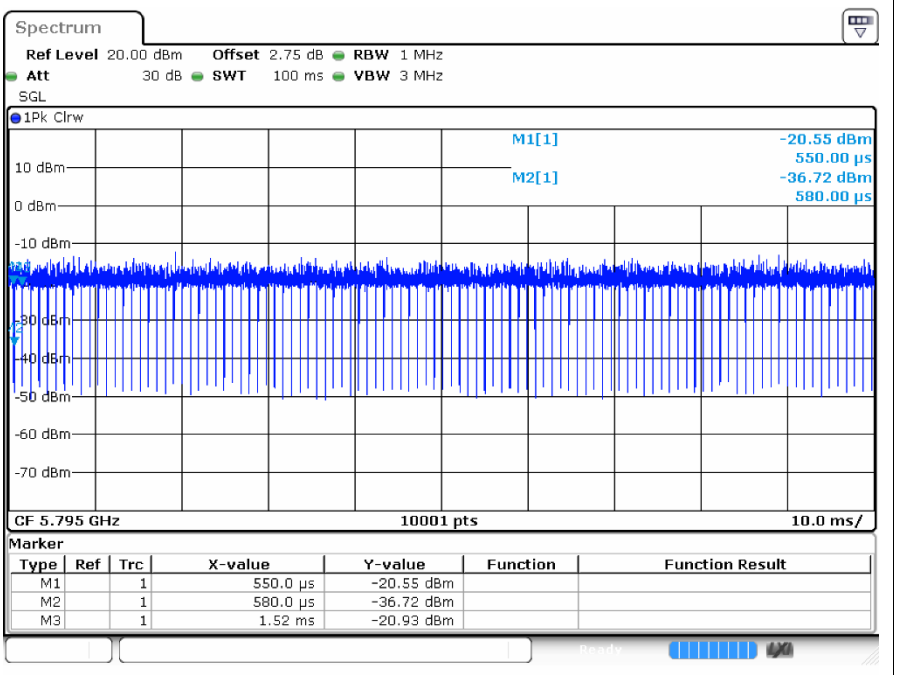
Duty Cycle ac20 5825MHz Ant1



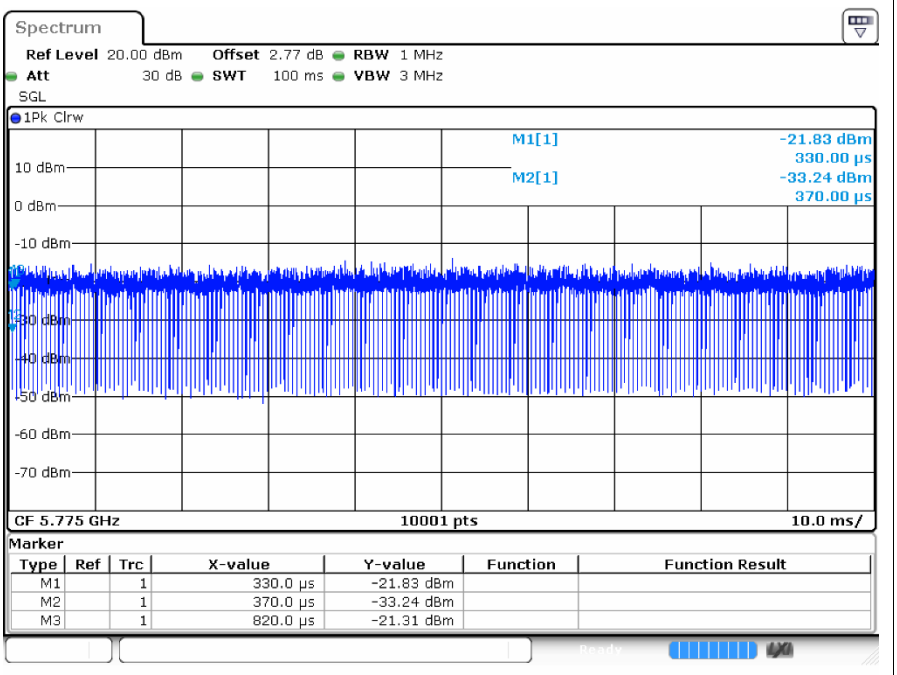

Duty Cycle ac40 5755MHz Ant1



Duty Cycle ac40 5795MHz Ant1




Duty Cycle ac80 5775MHz Ant1



# 2 Maximum Conducted Output Power

## 2.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| a | 5745 | Ant1 | -1.87 | 0.06 | -1.81 | 30 | Pass |
| a | 5785 | Ant1 | -2.27 | 0.05 | -2.22 | 30 | Pass |
| a | 5825 | Ant1 | -4.3 | 0.07 | -4.23 | 30 | Pass |
| n20 | 5745 | Ant1 | -1.94 | 0.07 | -1.87 | 30 | Pass |
| n20 | 5785 | Ant1 | -2.19 | 0.06 | -2.13 | 30 | Pass |
| n20 | 5825 | Ant1 | -4.24 | 0.08 | -4.16 | 30 | Pass |
| n40 | 5755 | Ant1 | -2.6 | 0.11 | -2.49 | 30 | Pass |
| n40 | 5795 | Ant1 | -3.07 | 0.11 | -2.96 | 30 | Pass |
| ac20 | 5745 | Ant1 | -1.87 | 0.06 | -1.81 | 30 | Pass |
| ac20 | 5785 | Ant1 | -2.28 | 0.06 | -2.22 | 30 | Pass |
| ac20 | 5825 | Ant1 | -4.34 | 0.08 | -4.26 | 30 | Pass |
| ac40 | 5755 | Ant1 | -2.32 | 0.11 | -2.21 | 30 | Pass |
| ac40 | 5795 | Ant1 | -3.38 | 0.11 | -3.27 | 30 | Pass |
| ac80 | 5775 | Ant1 | -1.87 | 0.24 | -1.63 | 30 | Pass |

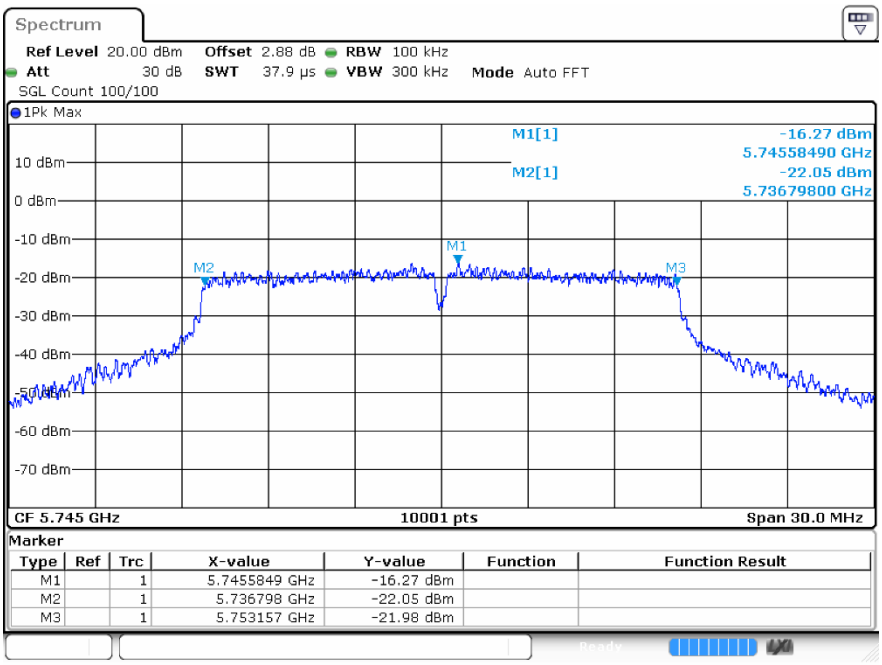
# 3 -6dB Bandwidth

## 3.1 Test Result

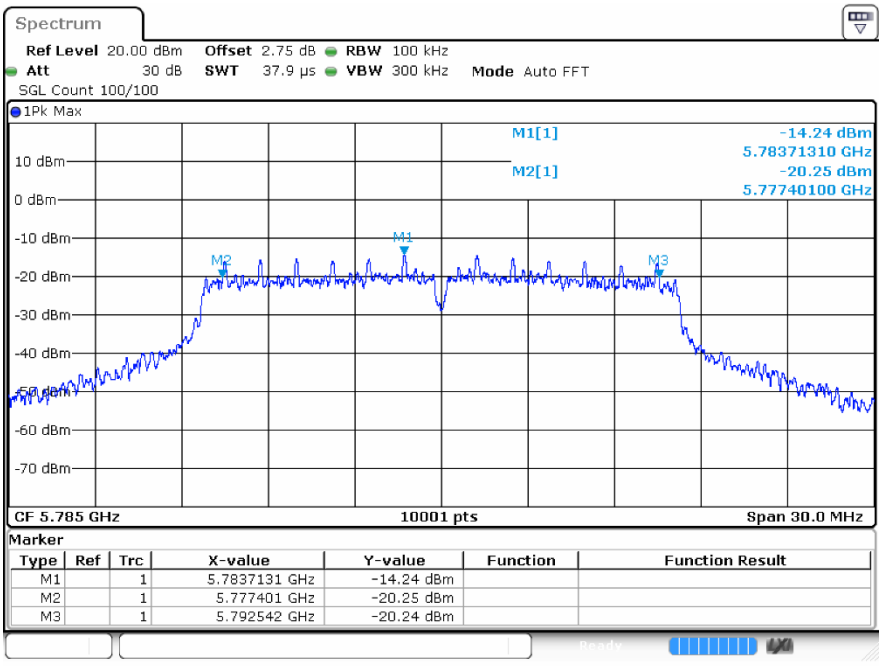
| Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|
| a | 5745 | Ant1 | 16.359 | 0.5 | Pass |
| a | 5785 | Ant1 | 15.141 | 0.5 | Pass |
| a | 5825 | Ant1 | 16.362 | 0.5 | Pass |
| n20 | 5745 | Ant1 | 16.812 | 0.5 | Pass |
| n20 | 5785 | Ant1 | 14.478 | 0.5 | Pass |
| n20 | 5825 | Ant1 | 16.929 | 0.5 | Pass |
| n40 | 5755 | Ant1 | 36.336 | 0.5 | Pass |
| n40 | 5795 | Ant1 | 35.124 | 0.5 | Pass |
| ac20 | 5745 | Ant1 | 17.607 | 0.5 | Pass |
| ac20 | 5785 | Ant1 | 17.586 | 0.5 | Pass |
| ac20 | 5825 | Ant1 | 17.61 | 0.5 | Pass |
| ac40 | 5755 | Ant1 | 35.67 | 0.5 | Pass |
| ac40 | 5795 | Ant1 | 30.66 | 0.5 | Pass |
| ac80 | 5775 | Ant1 | 73.548 | 0.5 | Pass |

## 3.2 Test Graphs

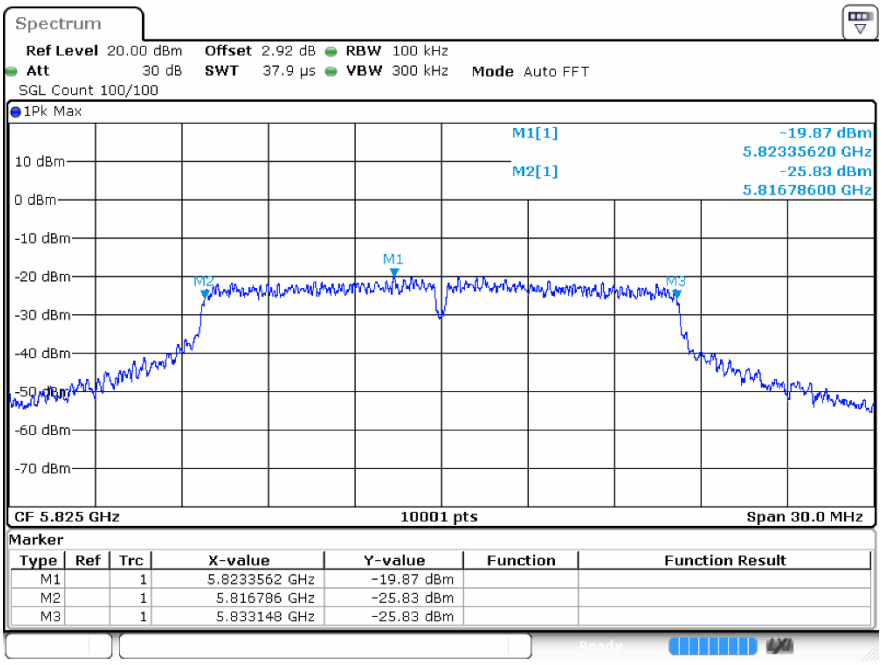
| Test Graphs |
| --- |
| -6dB Bandwidth a 5745MHz Ant1 |



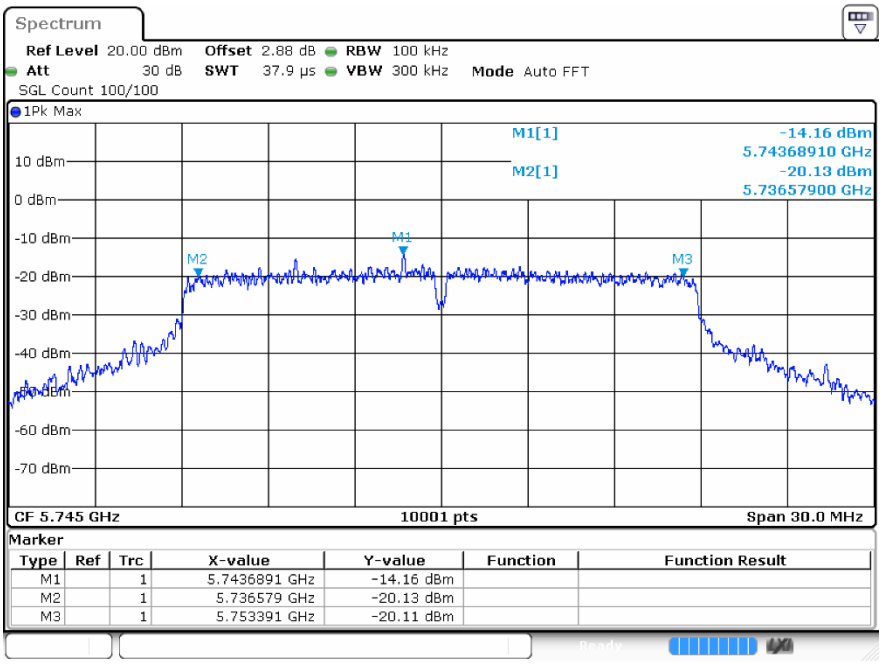

| -6dB Bandwidth a 5785MHz Ant1 |
| --- |



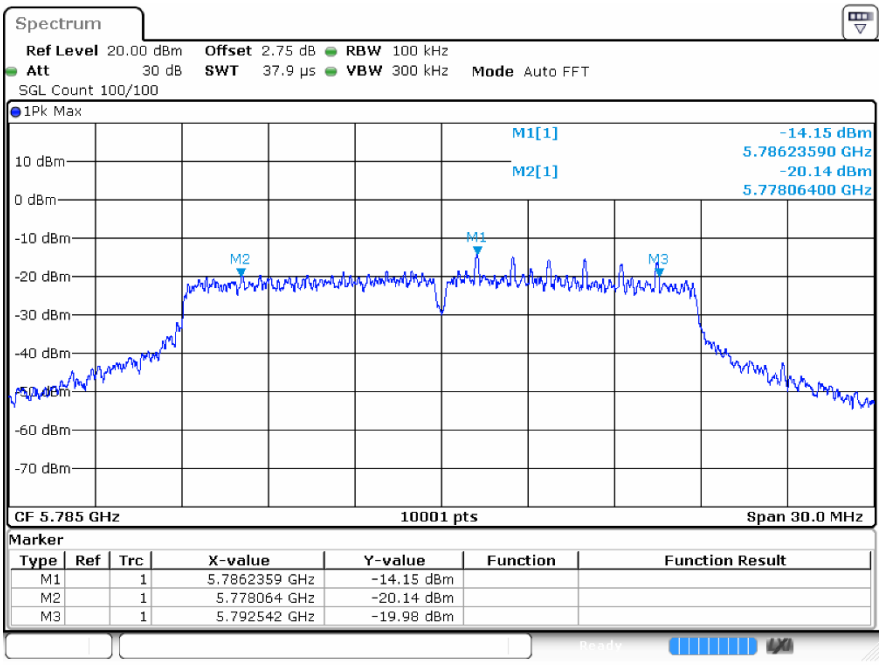
-6dB Bandwidth a 5825MHz Ant1



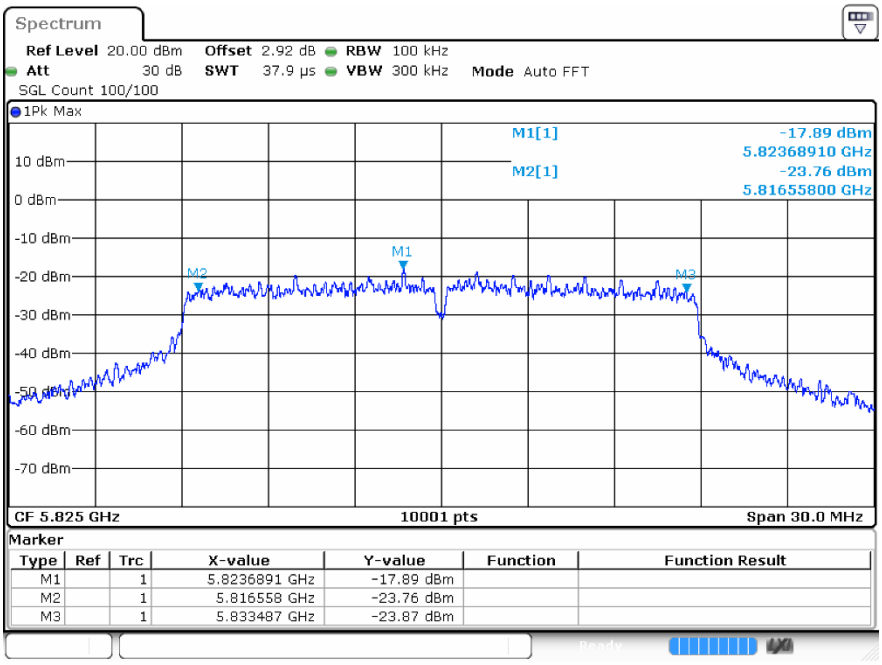

-6dB Bandwidth n20 5745MHz Ant1



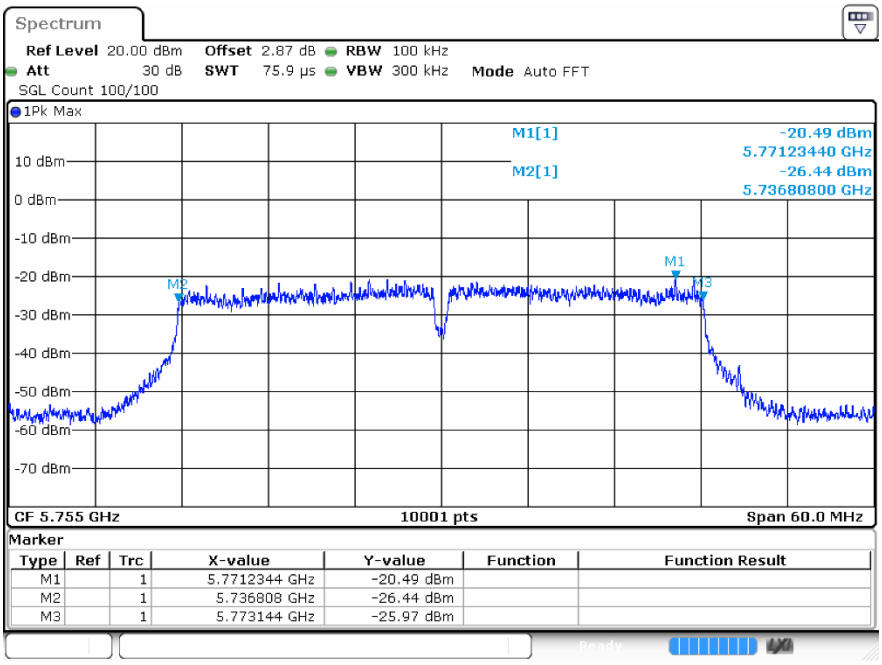
-6dB Bandwidth n20 5785MHz Ant1



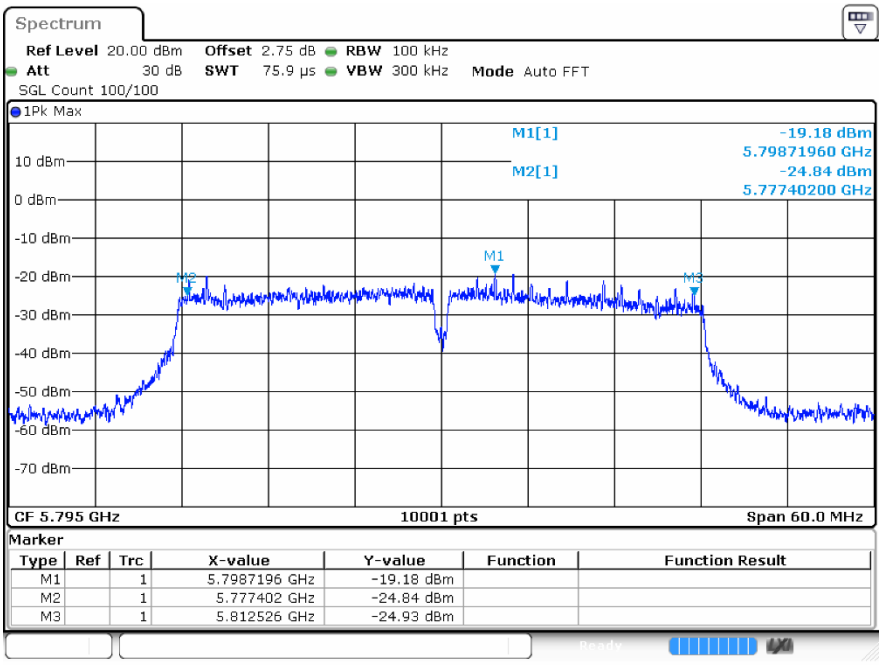

-6dB Bandwidth n20 5825MHz Ant1



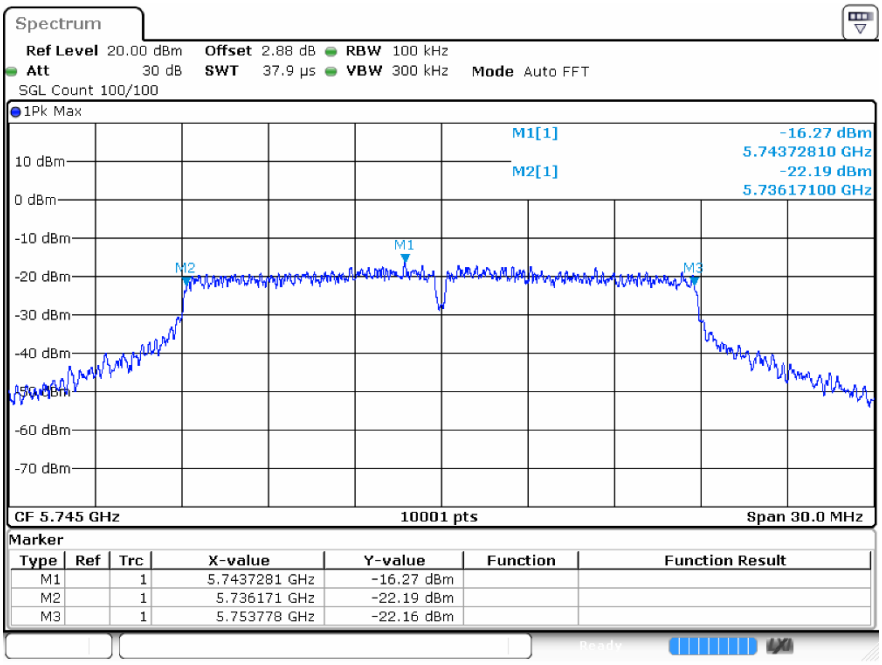
-6dB Bandwidth n40 5755MHz Ant1



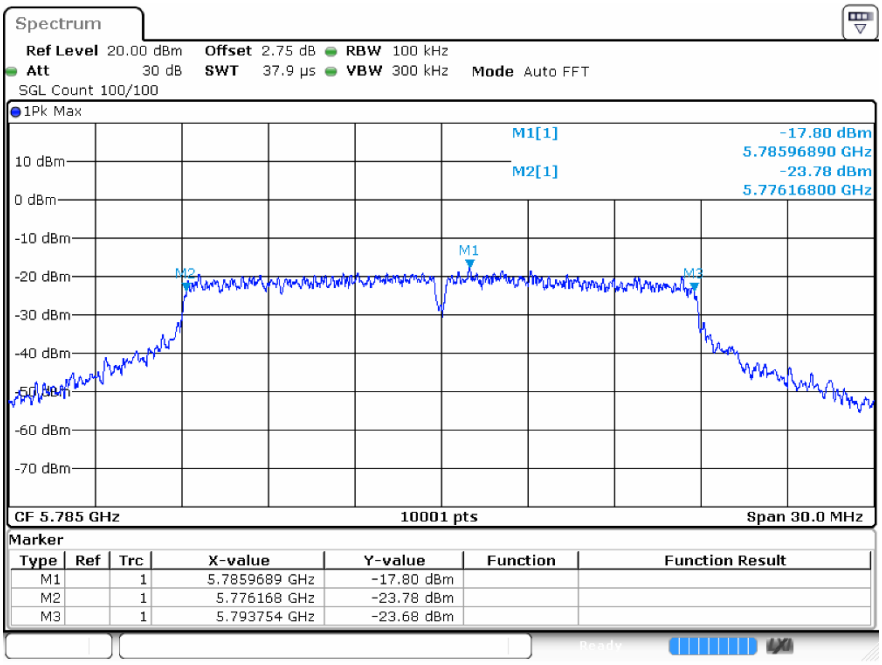

-6dB Bandwidth n40 5795MHz Ant1



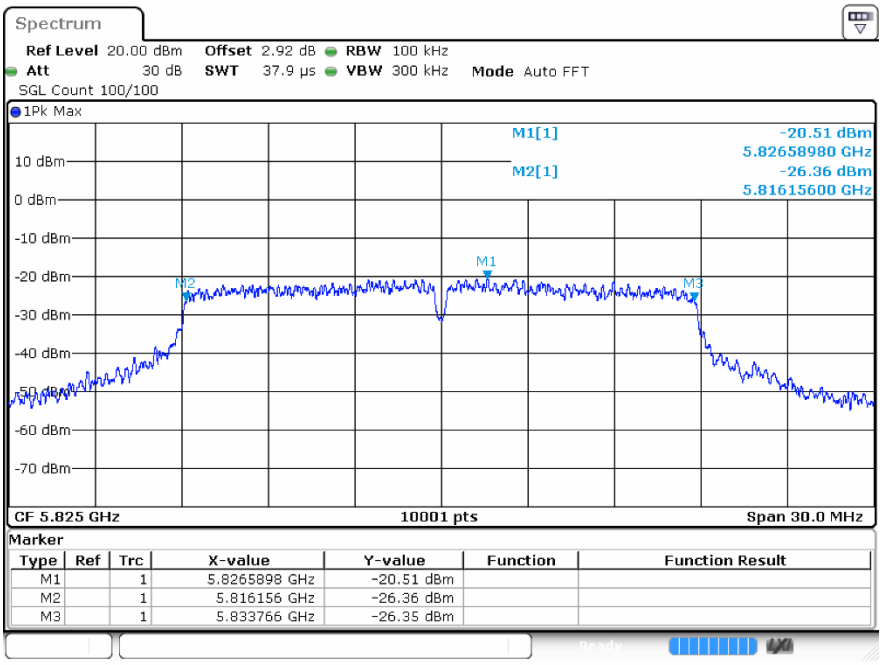
-6dB Bandwidth ac20 5745MHz Ant1



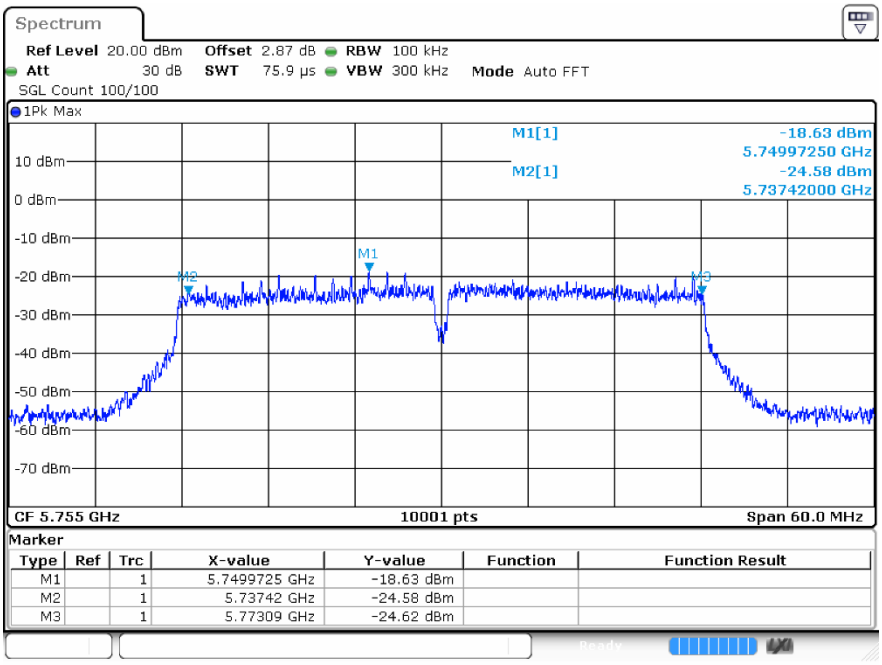

-6dB Bandwidth ac20 5785MHz Ant1



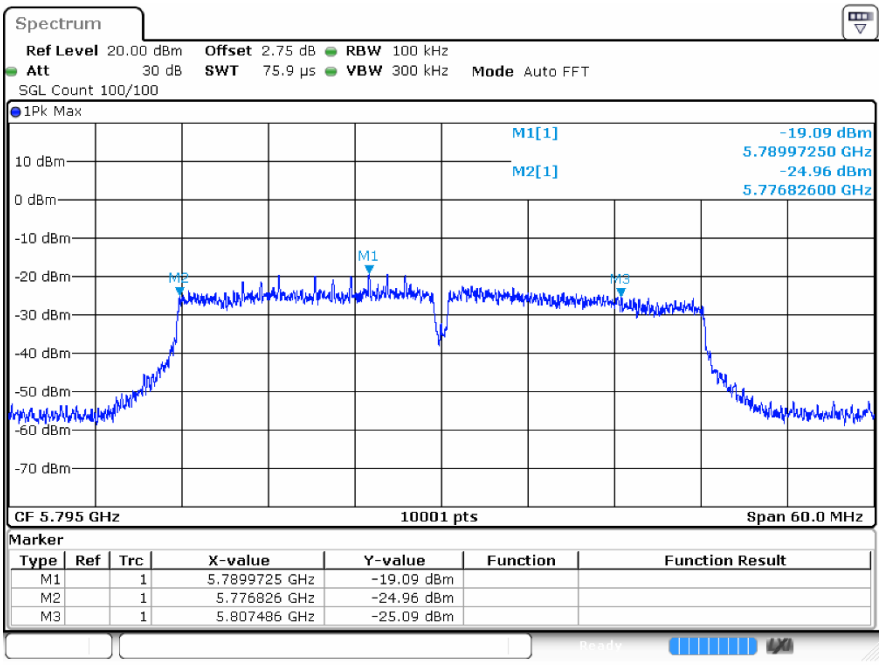
-6dB Bandwidth ac20 5825MHz Ant1



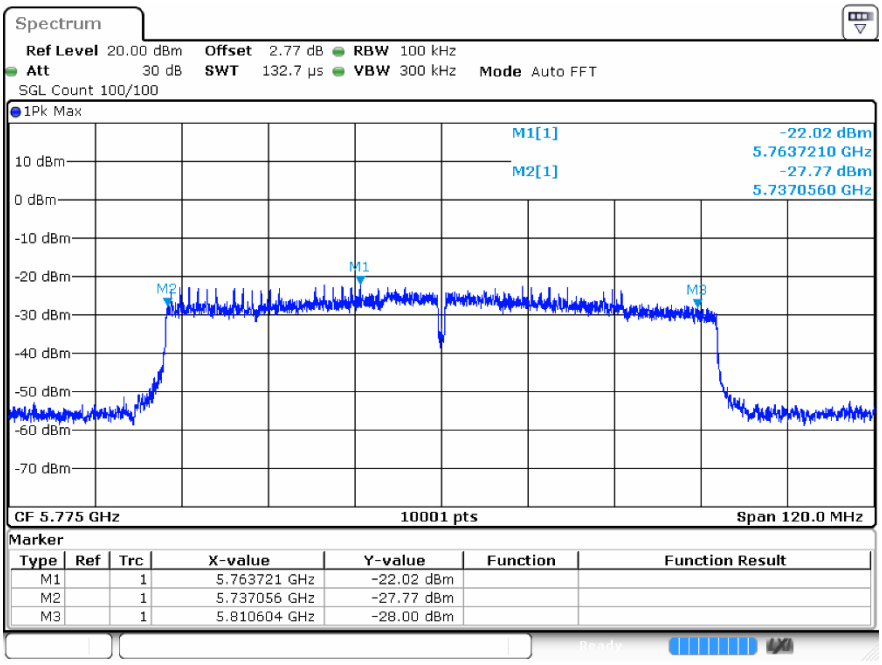

-6dB Bandwidth ac40 5755MHz Ant1



-6dB Bandwidth ac40 5795MHz Ant1




-6dB Bandwidth ac80 5775MHz Ant1

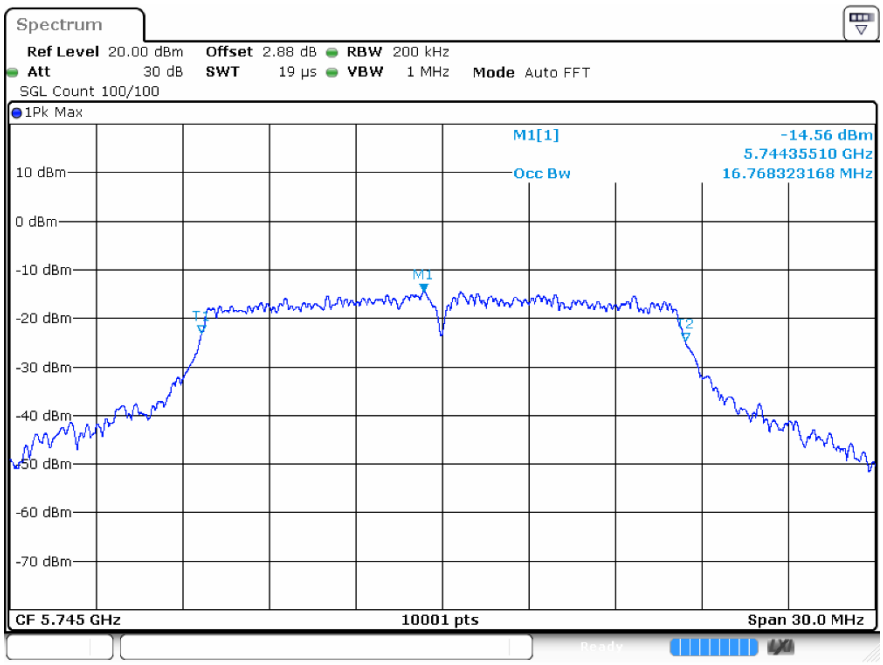
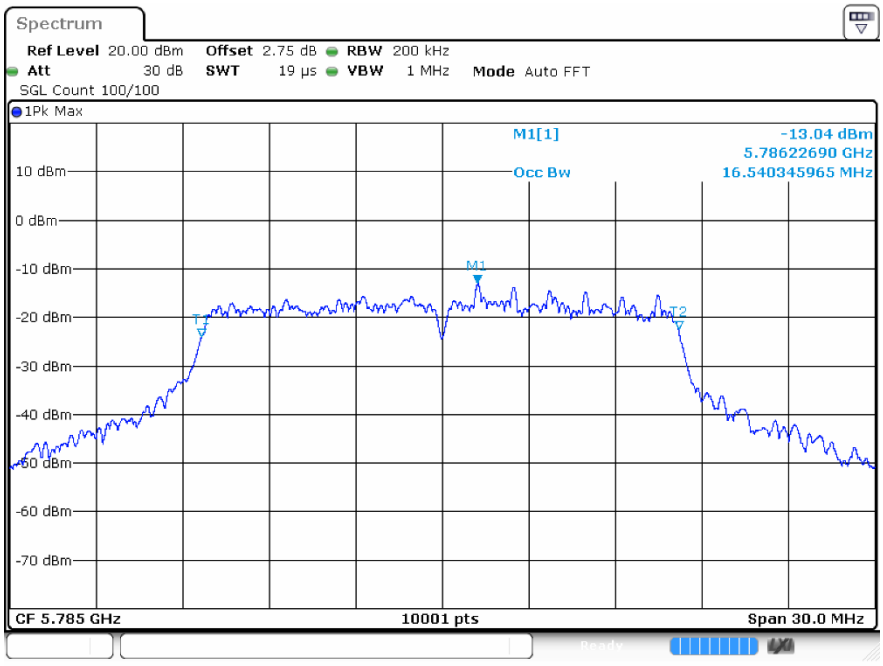


# 4 Occupied Channel Bandwidth

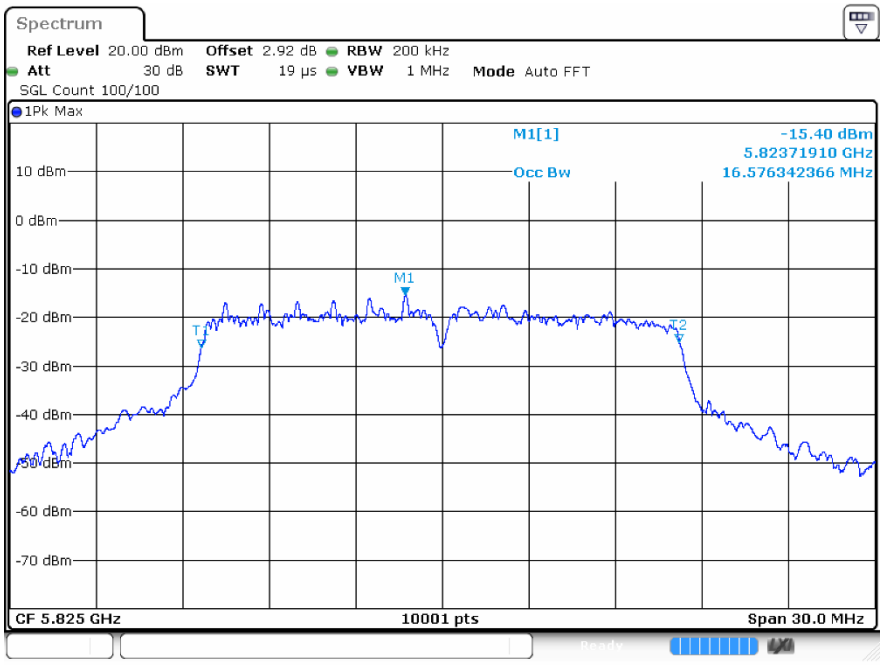
## 4.1 Test Result

| Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|
| a | 5745 | Ant1 | 16.768 |
| a | 5785 | Ant1 | 16.54 |
| a | 5825 | Ant1 | 16.576 |
| n20 | 5745 | Ant1 | 17.71 |
| n20 | 5785 | Ant1 | 17.623 |
| n20 | 5825 | Ant1 | 17.803 |
| n40 | 5755 | Ant1 | 36.236 |
| n40 | 5795 | Ant1 | 36.062 |
| ac20 | 5745 | Ant1 | 17.779 |
| ac20 | 5785 | Ant1 | 17.683 |
| ac20 | 5825 | Ant1 | 17.764 |
| ac40 | 5755 | Ant1 | 36.272 |
| ac40 | 5795 | Ant1 | 36.242 |
| ac80 | 5775 | Ant1 | 75.28 |

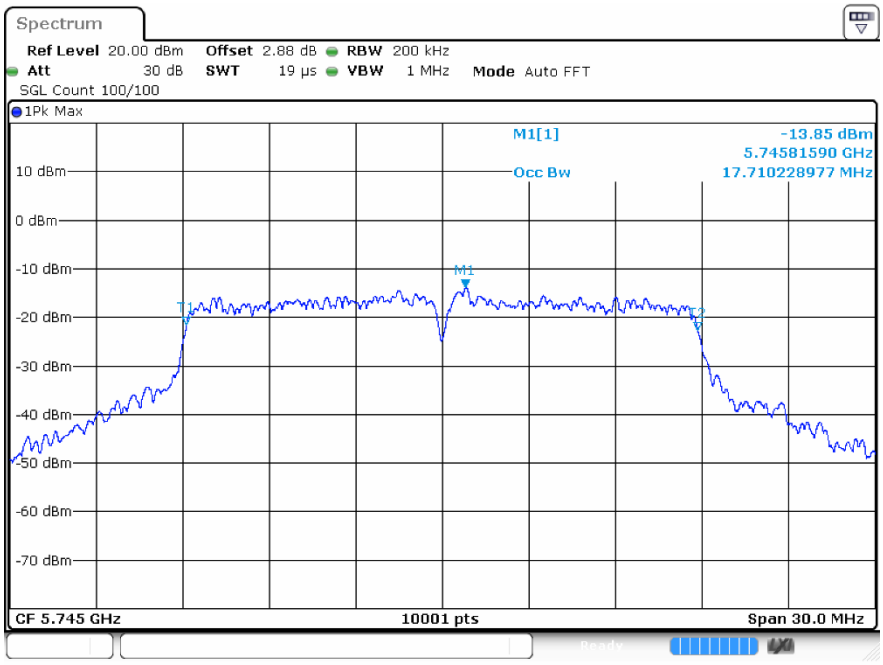
## 4.2 Test Graphs

| Test Graphs |
| --- |
| OBW a 5745MHz Ant1 |
|  |
| OBW a 5785MHz Ant1 |
|  |

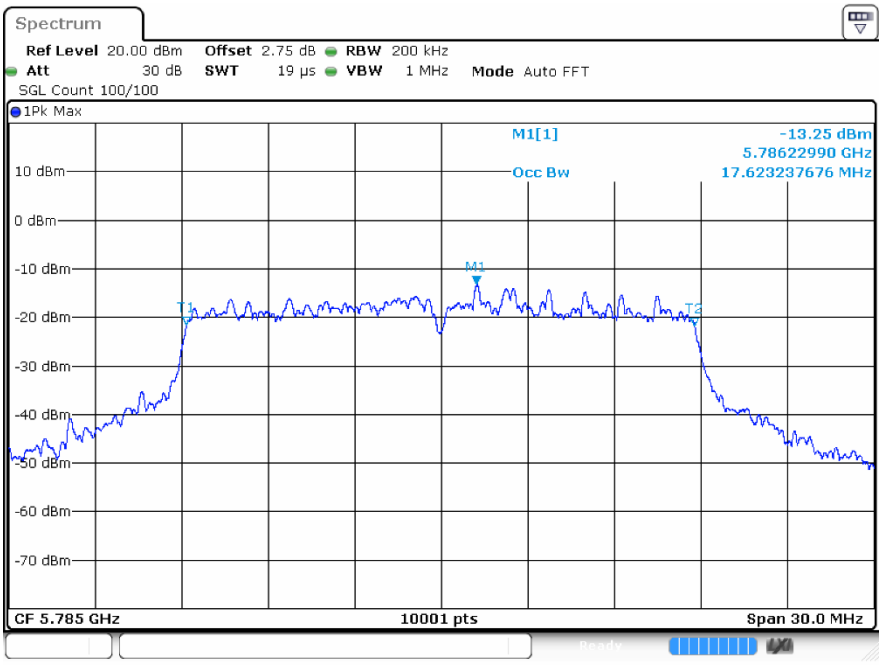
OBW a 5825MHz Ant1



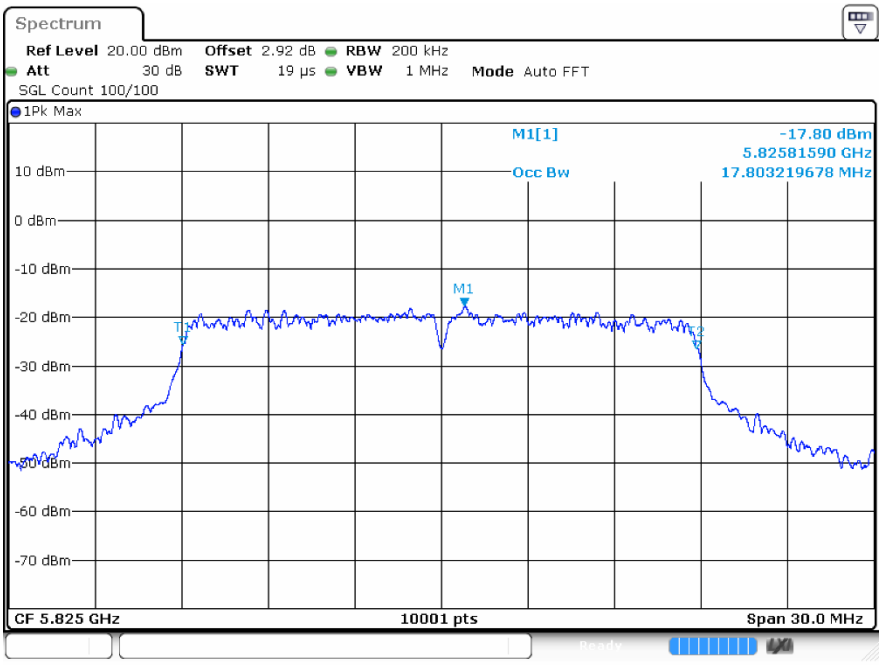

OBW n20 5745MHz Ant1



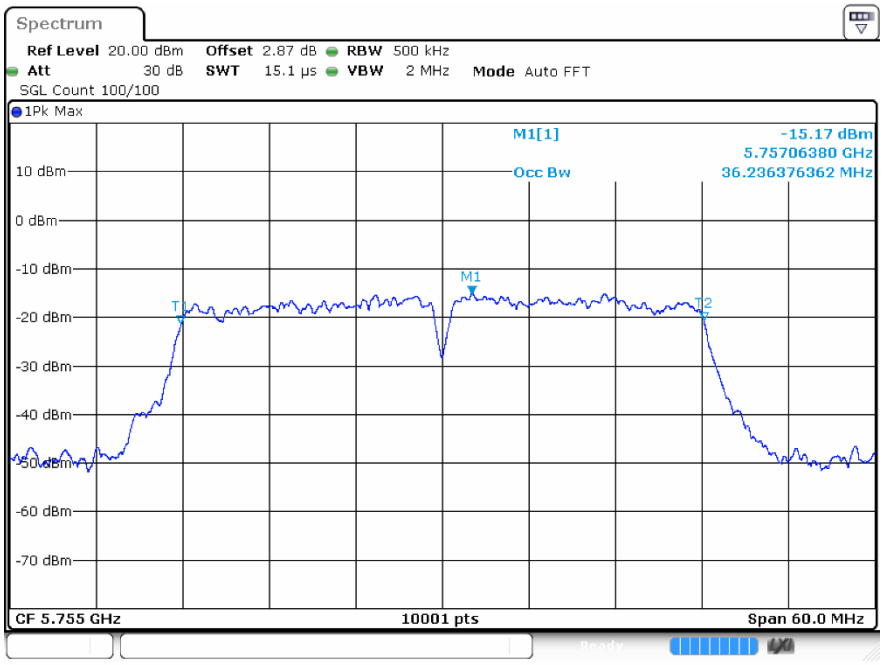
OBW n20 5785MHz Ant1



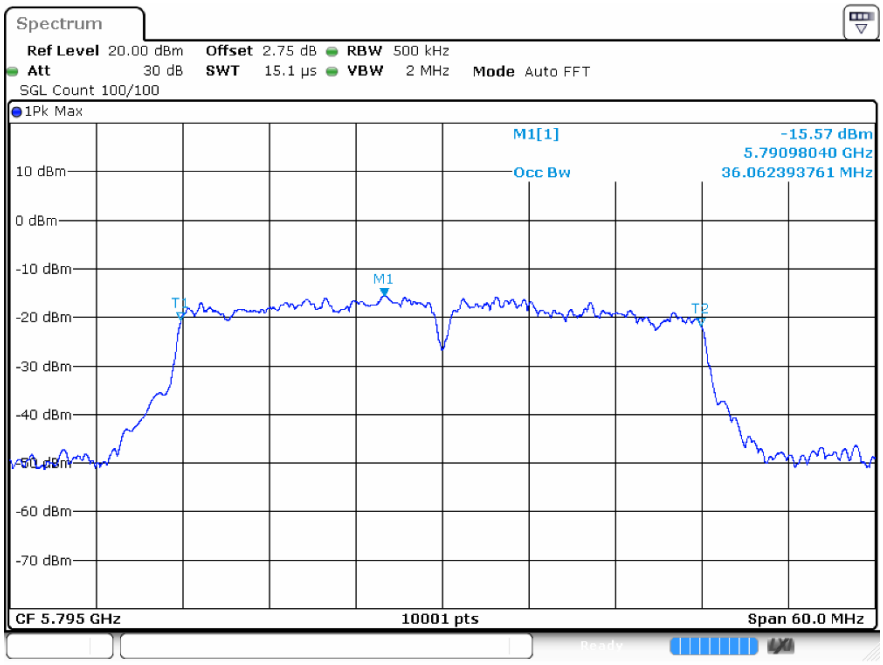

OBW n20 5825MHz Ant1



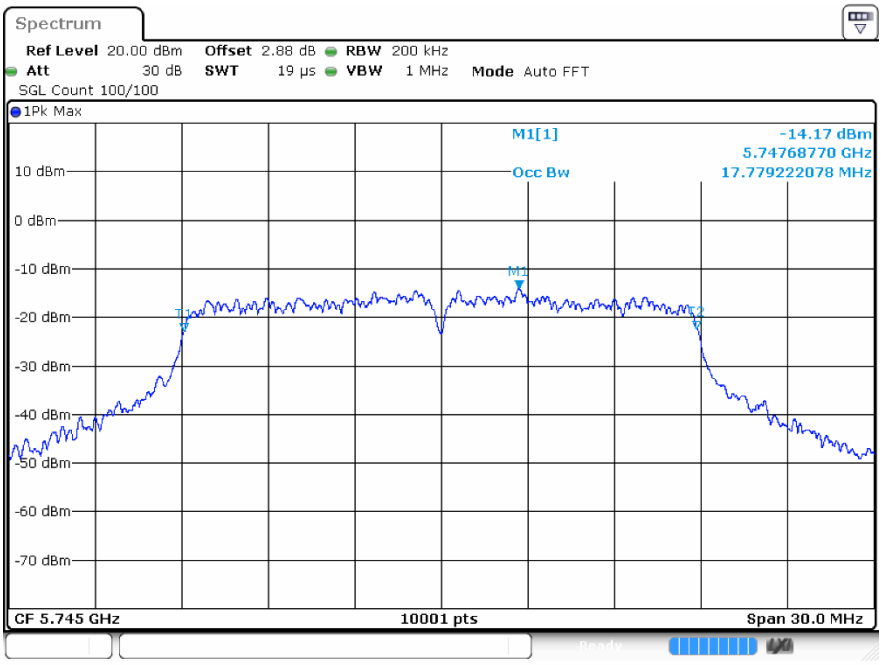
OBW n40 5755MHz Ant1



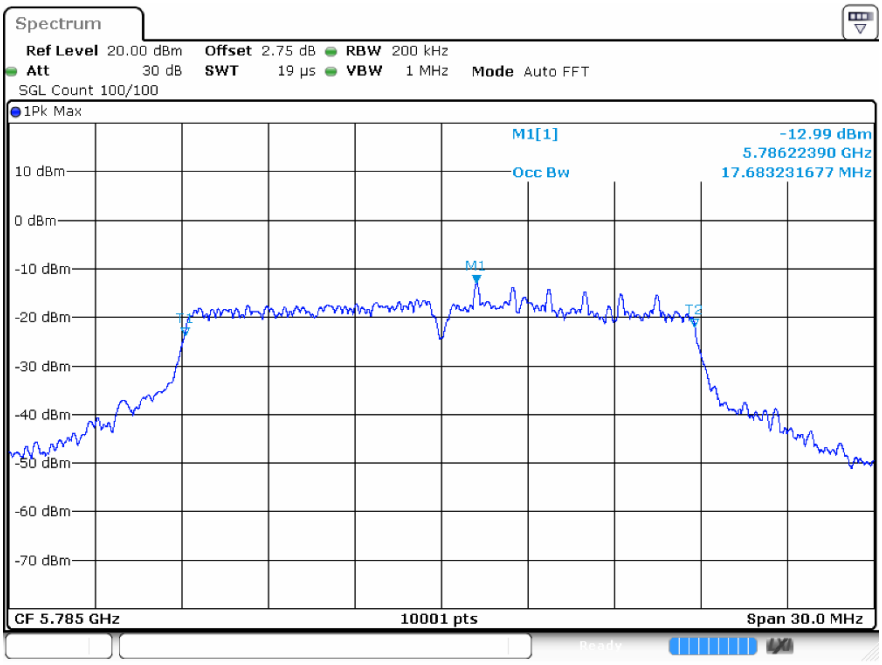

OBW n40 5795MHz Ant1



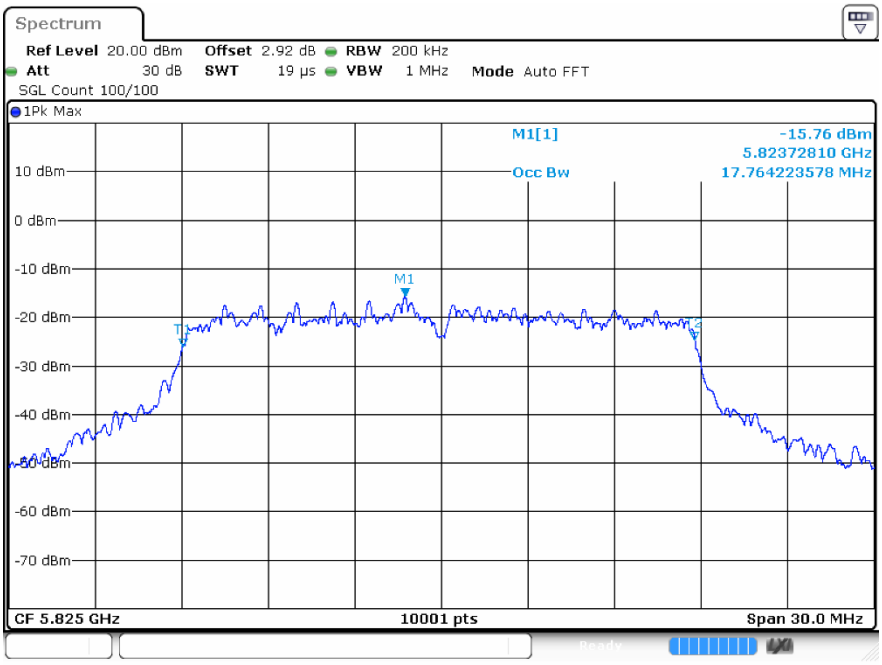
OBW ac20 5745MHz Ant1



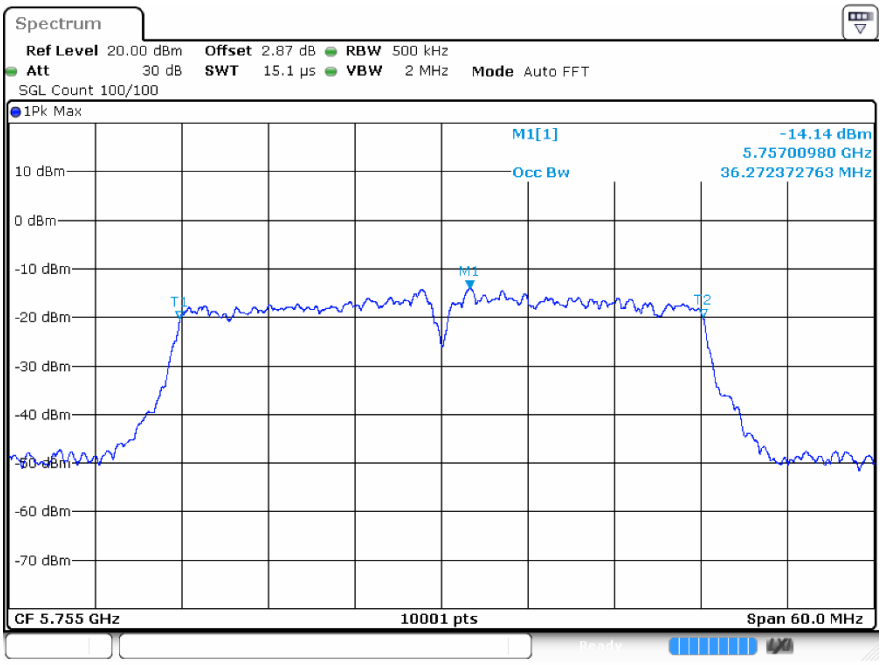

OBW ac20 5785MHz Ant1



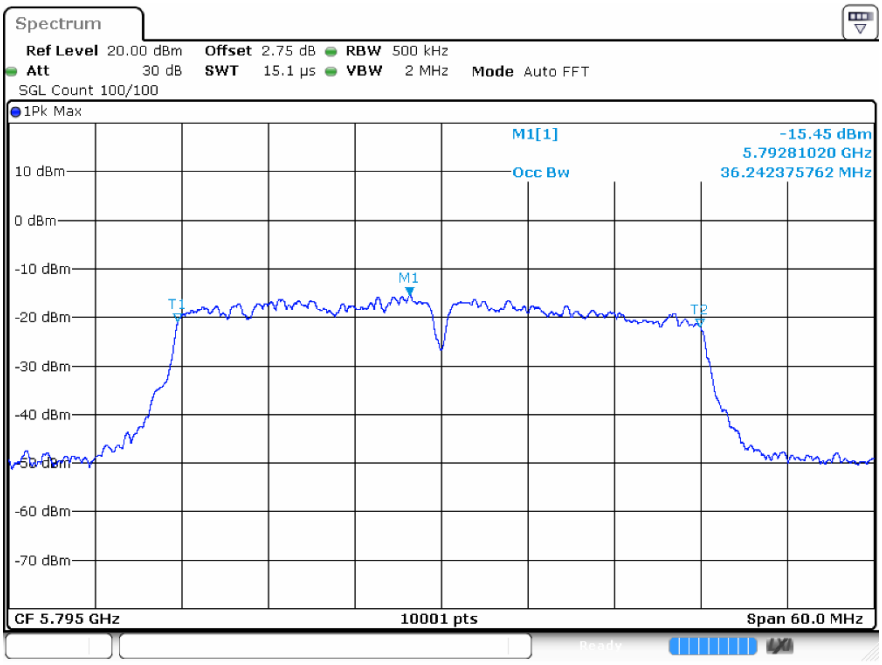
OBW ac20 5825MHz Ant1



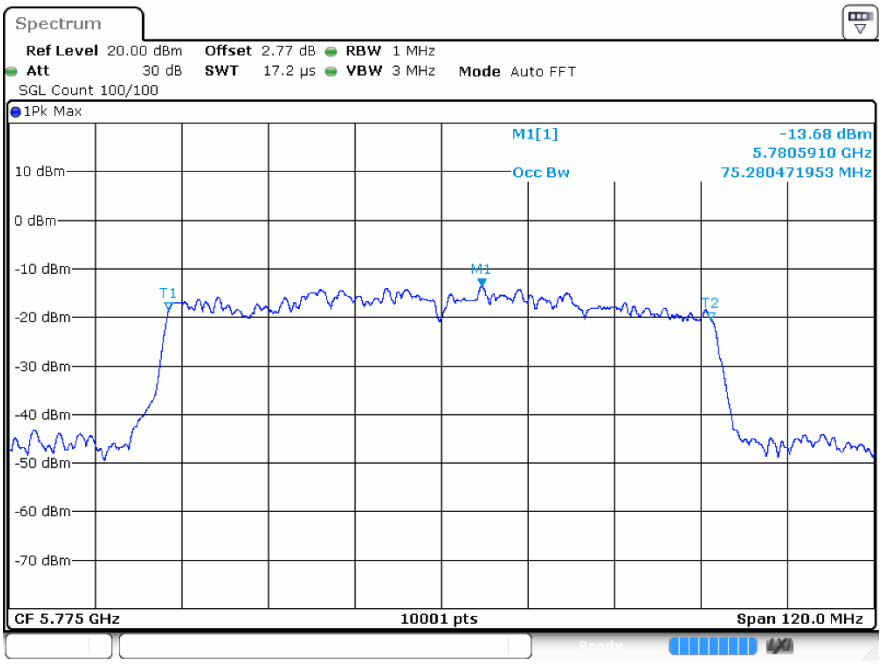

OBW ac40 5755MHz Ant1



OBW ac40 5795MHz Ant1




OBW ac80 5775MHz Ant1

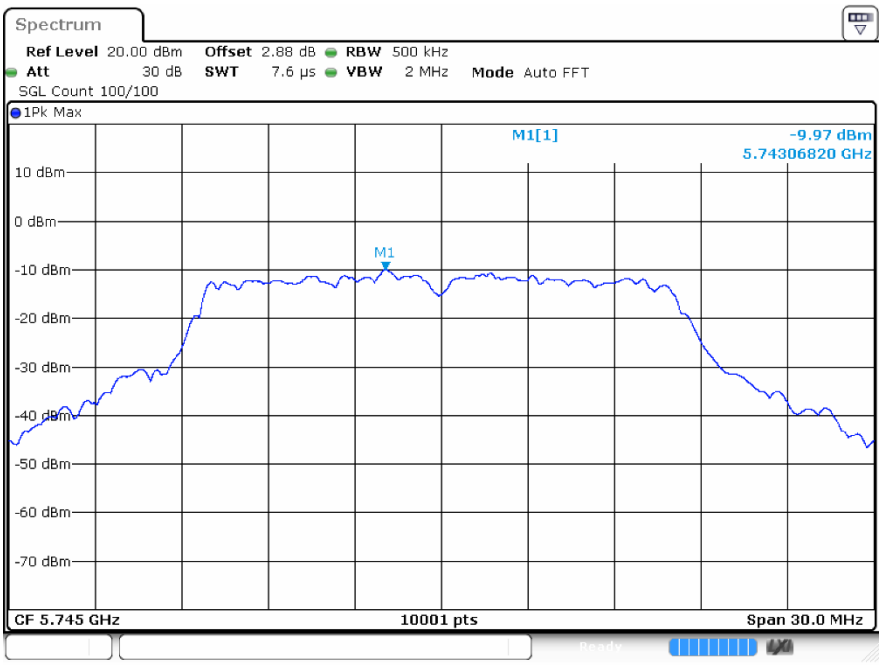
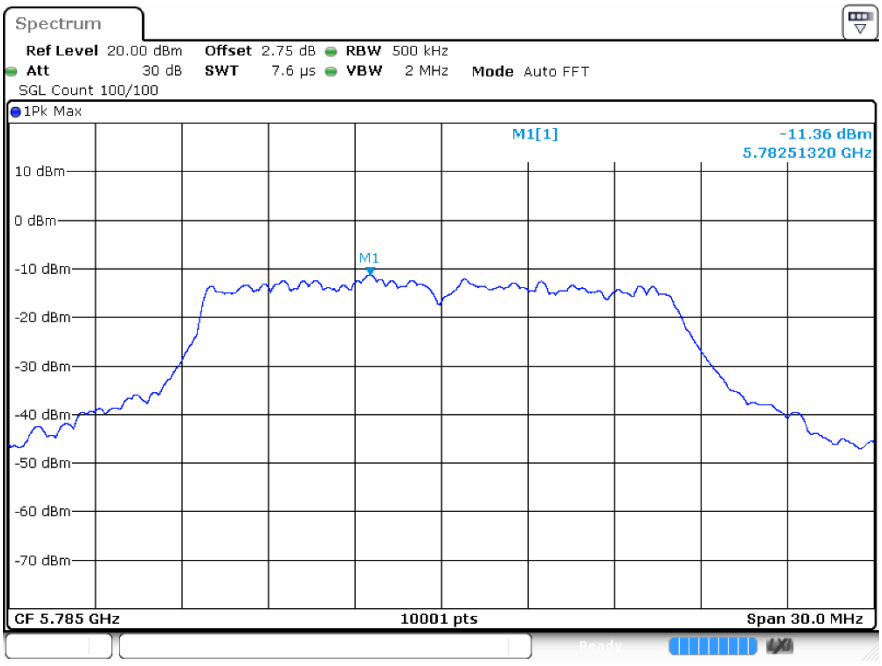


# 5 Maximum Power Spectral Density Level

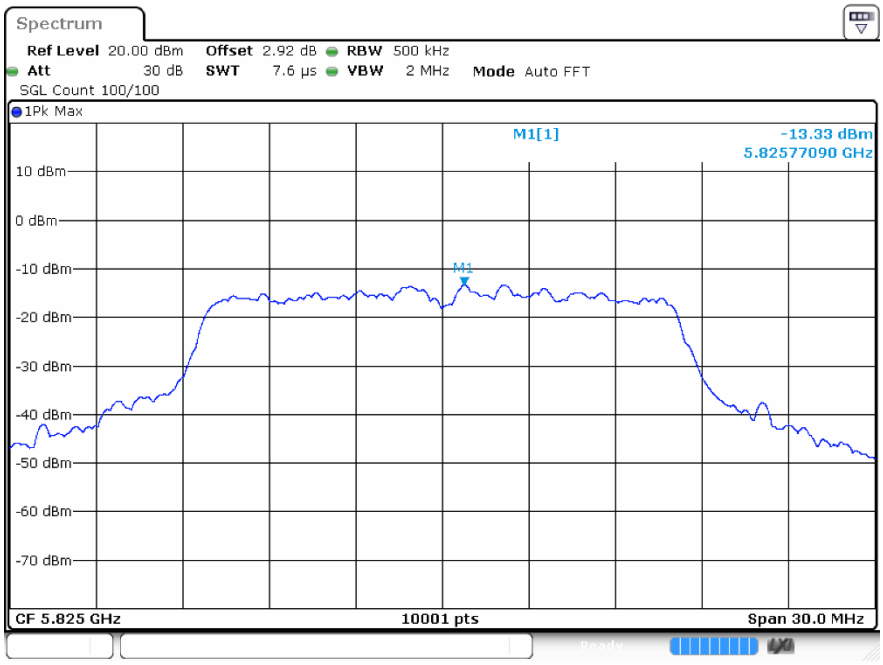
## 5.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| a | 5745 | Ant1 | -9.97 | 0.06 | -9.91 | 30 | Pass |
| a | 5785 | Ant1 | -11.36 | 0.05 | -11.31 | 30 | Pass |
| a | 5825 | Ant1 | -13.33 | 0.07 | -13.26 | 30 | Pass |
| n20 | 5745 | Ant1 | -10.28 | 0.07 | -10.21 | 30 | Pass |
| n20 | 5785 | Ant1 | -12.05 | 0.06 | -11.99 | 30 | Pass |
| n20 | 5825 | Ant1 | -13.92 | 0.08 | -13.84 | 30 | Pass |
| n40 | 5755 | Ant1 | -14.57 | 0.11 | -14.46 | 30 | Pass |
| n40 | 5795 | Ant1 | -15.69 | 0.11 | -15.58 | 30 | Pass |
| ac20 | 5745 | Ant1 | -10.71 | 0.06 | -10.65 | 30 | Pass |
| ac20 | 5785 | Ant1 | -11.92 | 0.06 | -11.86 | 30 | Pass |
| ac20 | 5825 | Ant1 | -13.21 | 0.08 | -13.13 | 30 | Pass |
| ac40 | 5755 | Ant1 | -14.97 | 0.11 | -14.86 | 30 | Pass |
| ac40 | 5795 | Ant1 | -14.86 | 0.11 | -14.75 | 30 | Pass |
| ac80 | 5775 | Ant1 | -16.03 | 0.24 | -15.79 | 30 | Pass |

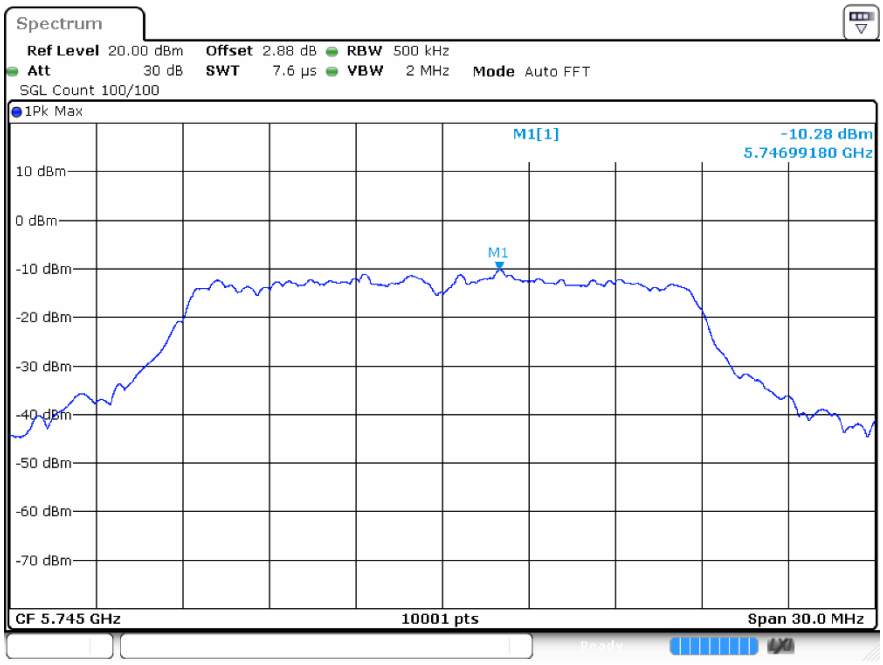
## 5.2 Test Graphs

| Test Graphs |
| --- |
| PSD a 5745MHz Ant1 |
|  |
| PSD a 5785MHz Ant1 |
|  |

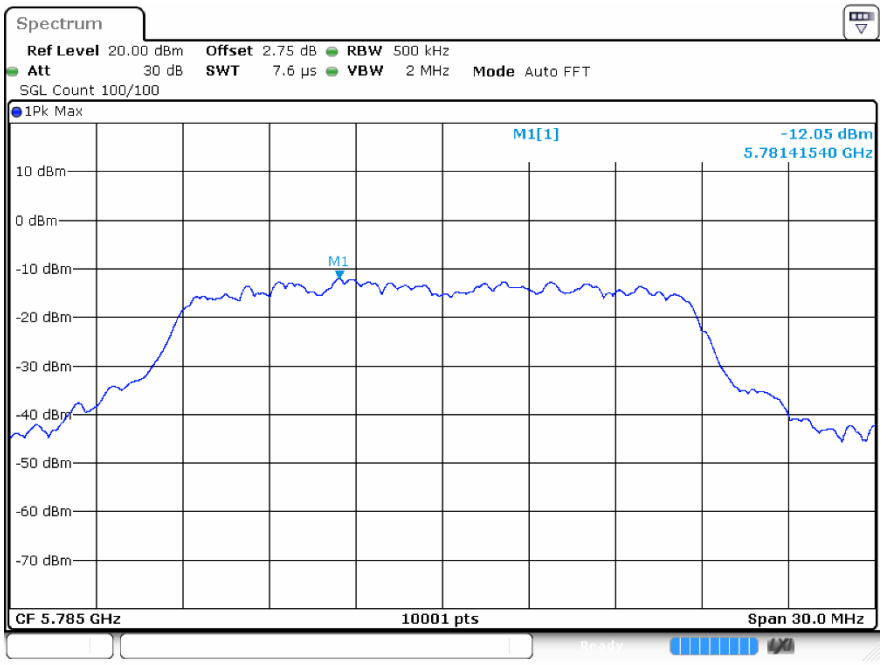
PSD a 5825MHz Ant1



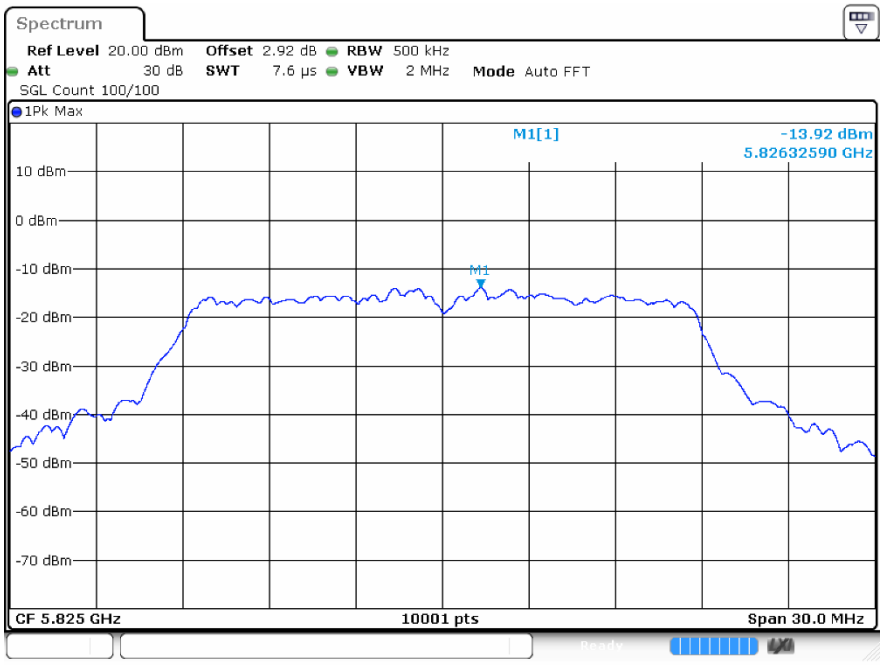

PSD n20 5745MHz Ant1



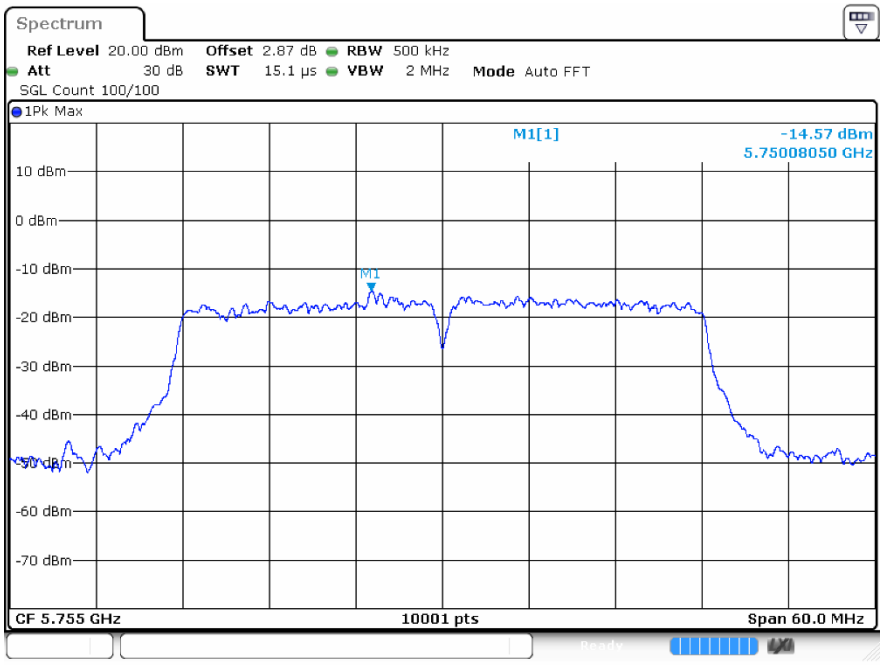
PSD n20 5785MHz Ant1



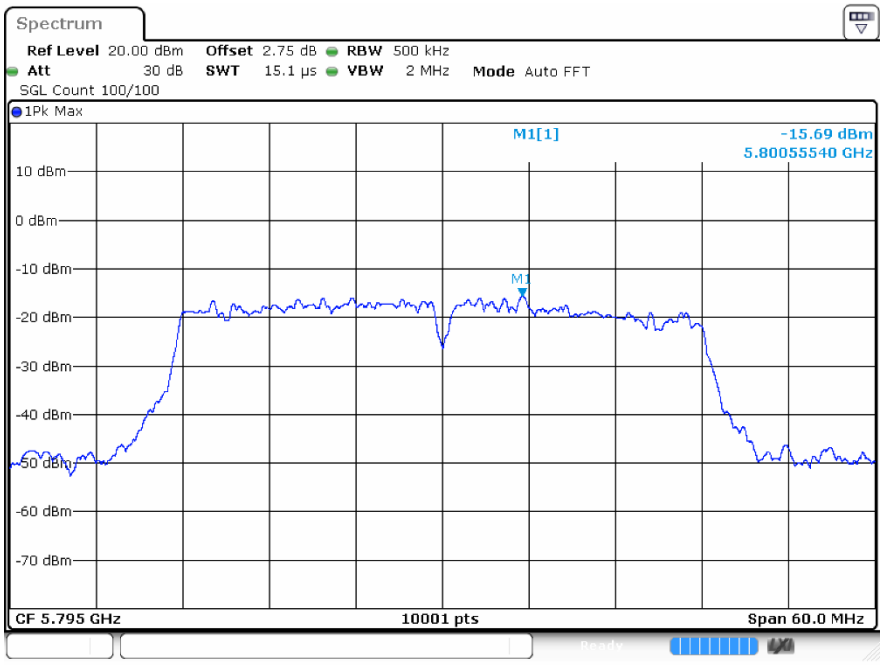

PSD n20 5825MHz Ant1



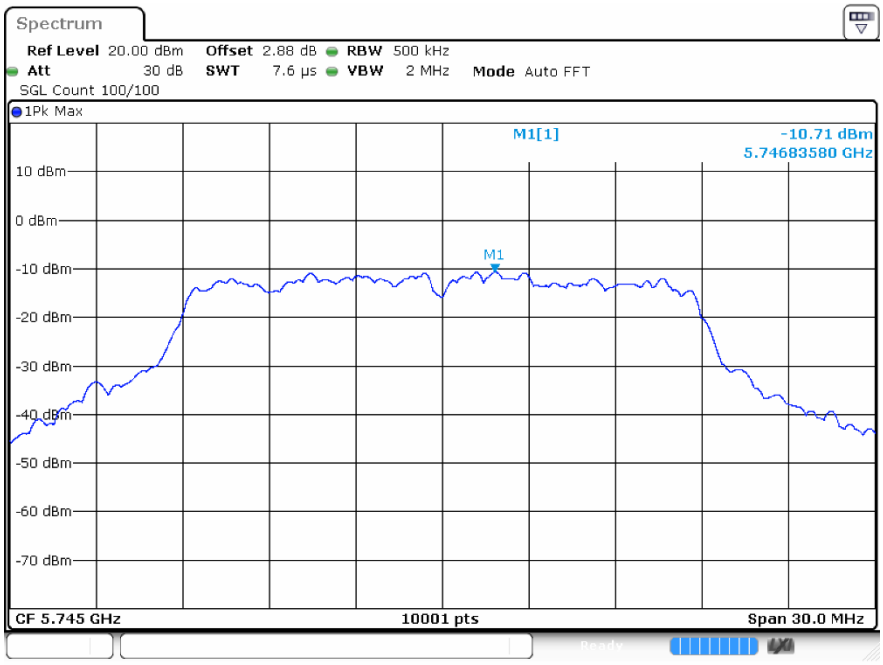
PSD n40 5755MHz Ant1



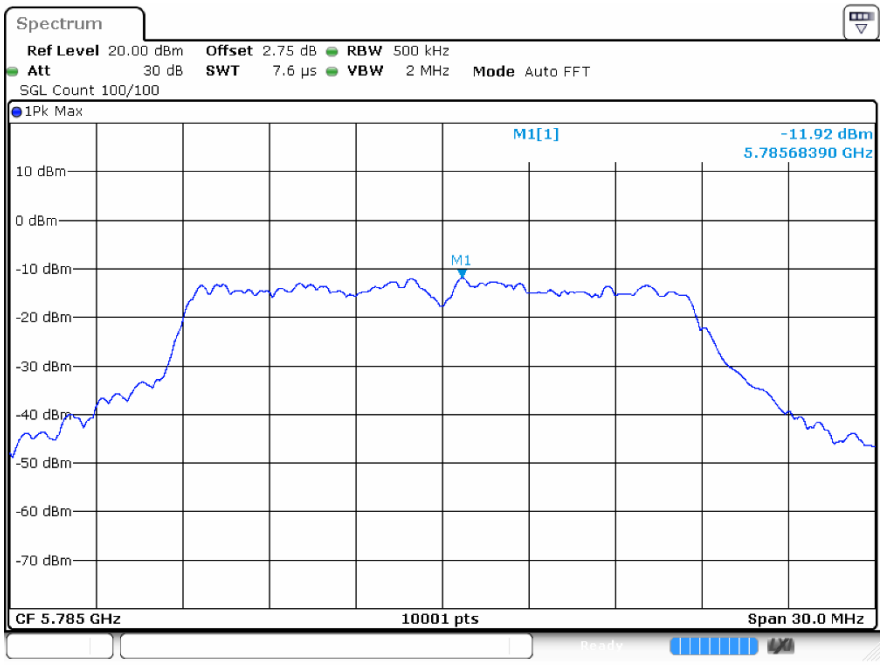

PSD n40 5795MHz Ant1



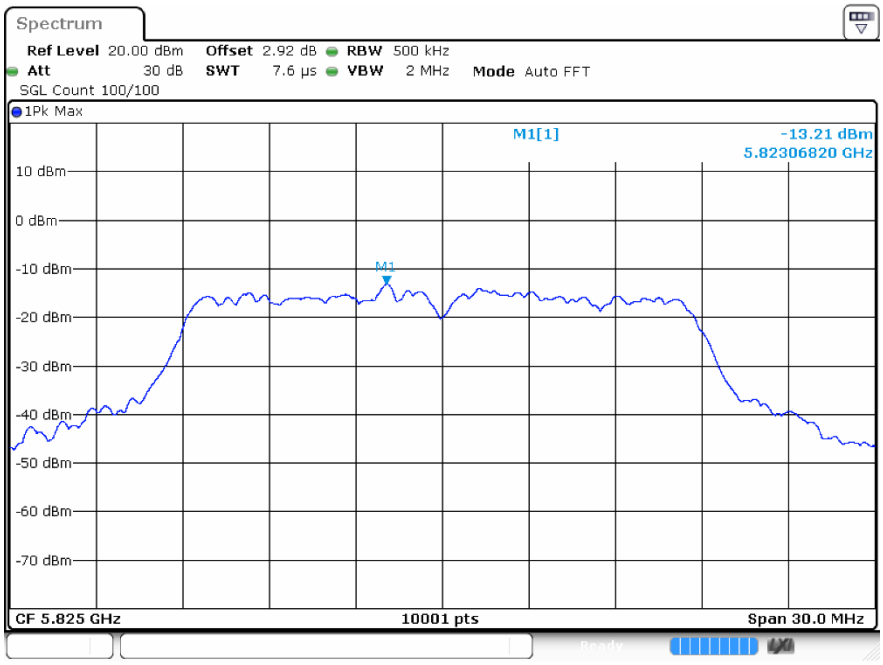
PSD ac20 5745MHz Ant1



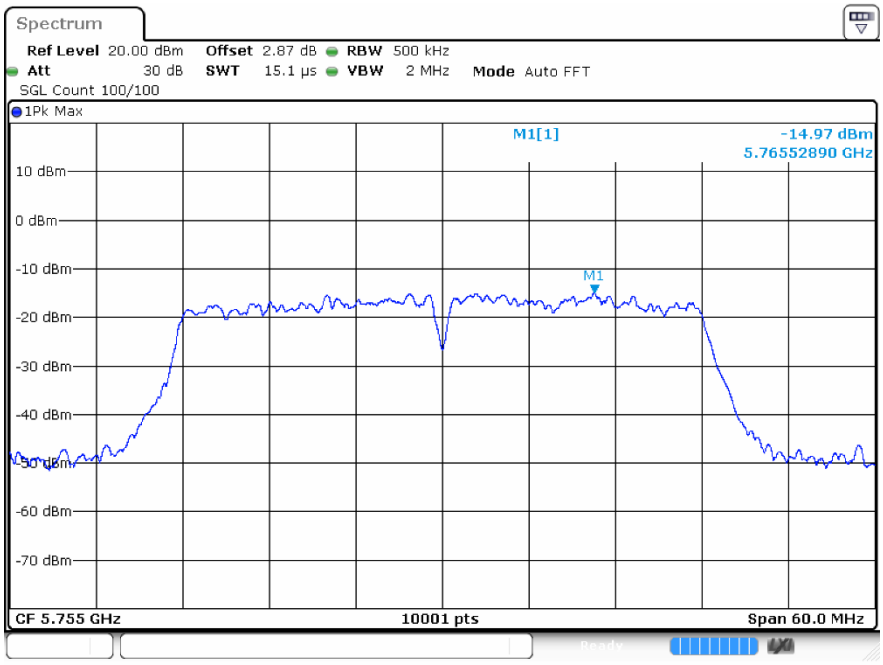

PSD ac20 5785MHz Ant1



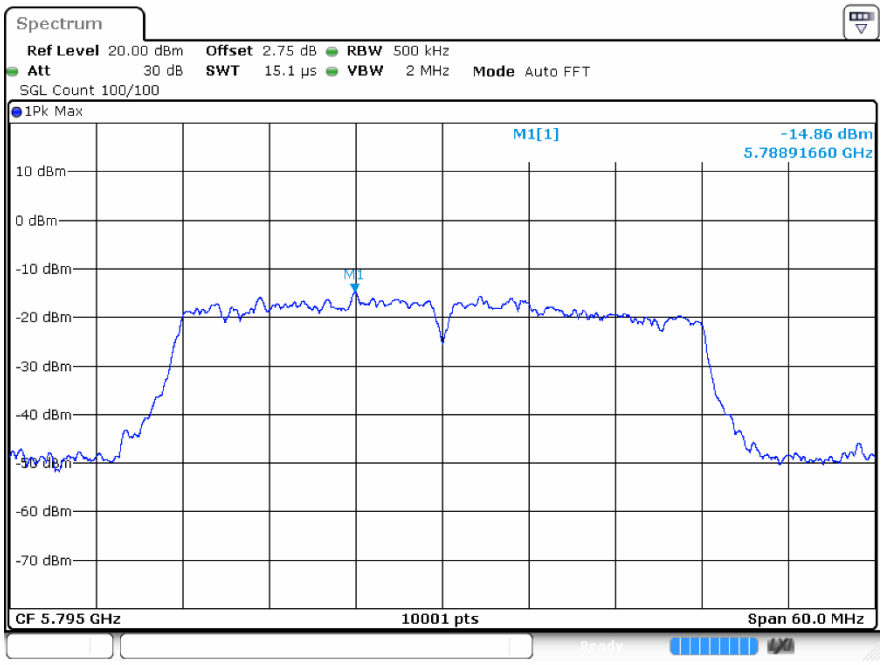
PSD ac20 5825MHz Ant1



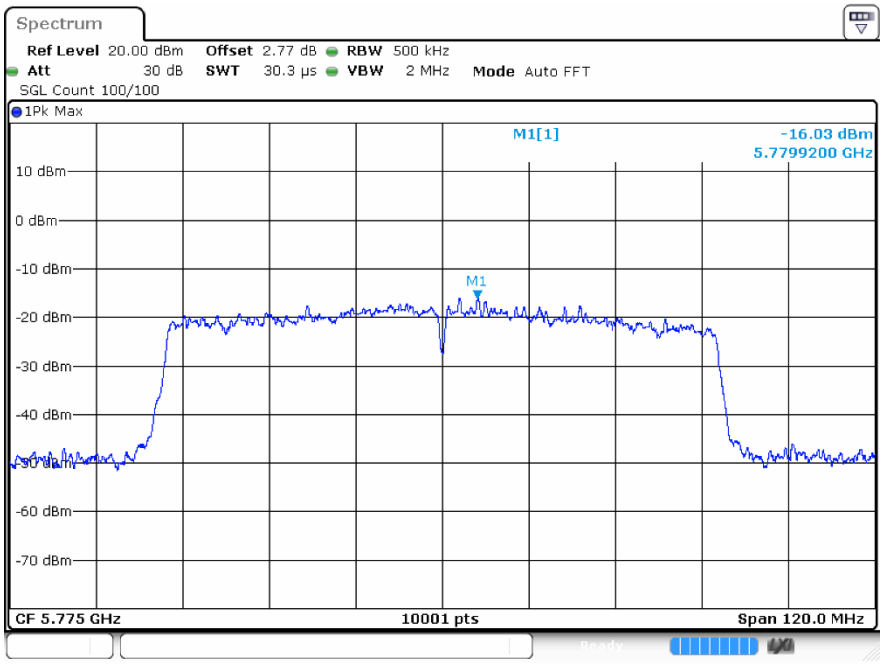

PSD ac40 5755MHz Ant1



PSD ac40 5795MHz Ant1




PSD ac80 5775MHz Ant1



# 6 Frequency Stability

## 6.1 Test Result

| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| 20C 102V | a | 5745 | Ant1 | 5744.94 | -60000 | -10.44 | 25 | Pass |
| 20C 120V | a | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| 20C 138V | a | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| -20C 120V | a | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| -10C 120V | a | 5745 | Ant1 | 5745 | 0 | 0 | 25 | Pass |
| 0C 120V | a | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 10C 120V | a | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 30C 120V | a | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 40C 120V | a | 5745 | Ant1 | 5744.94 | -60000 | -10.44 | 25 | Pass |
| 50C 120V | a | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 20C 102V | a | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 20C 120V | a | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 20C 138V | a | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| -20C 120V | a | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| -10C 120V | a | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 0C 120V | a | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 10C 120V | a | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 30C 120V | a | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 40C 120V | a | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 50C 120V | a | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 20C 102V | a | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 20C 120V | a | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 20C 138V | a | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| -20C 120V | a | 5825 | Ant1 | 5824.94 | -60000 | -10.3 | 25 | Pass |
| -10C 120V | a | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 0C 120V | a | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 10C 120V | a | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 30C 120V | a | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 40C 120V | a | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 50C 120V | a | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 20C 102V | n20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 20C 120V | n20 | 5745 | Ant1 | 5745 | 0 | 0 | 25 | Pass |
| 20C 138V | n20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| -20C 120V | n20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| -10C 120V | n20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| 0C 120V | n20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 10C 120V | n20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| 30C 120V | n20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| 40C 120V | n20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| 50C 120V | n20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 20C 102V | n20 | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 20C 120V | n20 | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 20C 138V | n20 | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| -20C 120V | n20 | 5785 | Ant1 | 5785 | 0 | 0 | 25 | Pass |
| -10C 120V | n20 | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 0C 120V | n20 | 5785 | Ant1 | 5784.94 | -60000 | -10.37 | 25 | Pass |
| 10C 120V | n20 | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 30C 120V | n20 | 5785 | Ant1 | 5784.94 | -60000 | -10.37 | 25 | Pass |
| 40C 120V | n20 | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 50C 120V | n20 | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 20C 102V | n20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 20C 120V | n20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 20C 138V | n20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| -20C 120V | n20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| -10C 120V | n20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 0C 120V | n20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 10C 120V | n20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 30C 120V | n20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 40C 120V | n20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 50C 120V | n20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 20C 102V | n40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 20C 120V | n40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 20C 138V | n40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| -20C 120V | n40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| -10C 120V | n40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 0C 120V | n40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 10C 120V | n40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 30C 120V | n40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 40C 120V | n40 | 5755 | Ant1 | 5755 | 0 | 0 | 25 | Pass |
| 50C 120V | n40 | 5755 | Ant1 | 5755 | 0 | 0 | 25 | Pass |
| 20C 102V | n40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 20C 120V | n40 | 5795 | Ant1 | 5794.92 | -80000 | -13.81 | 25 | Pass |
| 20C 138V | n40 | 5795 | Ant1 | 5795 | 0 | 0 | 25 | Pass |
| -20C 120V | n40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| -10C 120V | n40 | 5795 | Ant1 | 5794.92 | -80000 | -13.81 | 25 | Pass |
| 0C 120V | n40 | 5795 | Ant1 | 5794.92 | -80000 | -13.81 | 25 | Pass |
| 10C 120V | n40 | 5795 | Ant1 | 5795 | 0 | 0 | 25 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 30C 120V | n40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 40C 120V | n40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 50C 120V | n40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 20C 102V | ac20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| 20C 120V | ac20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 20C 138V | ac20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| -20C 120V | ac20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| -10C 120V | ac20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| 0C 120V | ac20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 10C 120V | ac20 | 5745 | Ant1 | 5744.98 | -20000 | -3.48 | 25 | Pass |
| 30C 120V | ac20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 40C 120V | ac20 | 5745 | Ant1 | 5744.94 | -60000 | -10.44 | 25 | Pass |
| 50C 120V | ac20 | 5745 | Ant1 | 5744.96 | -40000 | -6.96 | 25 | Pass |
| 20C 102V | ac20 | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 20C 120V | ac20 | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 20C 138V | ac20 | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| -20C 120V | ac20 | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| -10C 120V | ac20 | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 0C 120V | ac20 | 5785 | Ant1 | 5784.94 | -60000 | -10.37 | 25 | Pass |
| 10C 120V | ac20 | 5785 | Ant1 | 5784.96 | -40000 | -6.91 | 25 | Pass |
| 30C 120V | ac20 | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 40C 120V | ac20 | 5785 | Ant1 | 5784.98 | -20000 | -3.46 | 25 | Pass |
| 50C 120V | ac20 | 5785 | Ant1 | 5784.94 | -60000 | -10.37 | 25 | Pass |
| 20C 102V | ac20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 20C 120V | ac20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 20C 138V | ac20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| -20C 120V | ac20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| -10C 120V | ac20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 0C 120V | ac20 | 5825 | Ant1 | 5824.94 | -60000 | -10.3 | 25 | Pass |
| 10C 120V | ac20 | 5825 | Ant1 | 5824.94 | -60000 | -10.3 | 25 | Pass |
| 30C 120V | ac20 | 5825 | Ant1 | 5824.96 | -40000 | -6.87 | 25 | Pass |
| 40C 120V | ac20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 50C 120V | ac20 | 5825 | Ant1 | 5824.98 | -20000 | -3.43 | 25 | Pass |
| 20C 102V | ac40 | 5755 | Ant1 | 5755 | 0 | 0 | 25 | Pass |
| 20C 120V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 20C 138V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| -20C 120V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| -10C 120V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 0C 120V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 10C 120V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 30C 120V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 40C 120V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |
| 50C 120V | ac40 | 5755 | Ant1 | 5754.96 | -40000 | -6.95 | 25 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 20C 102V | ac40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 20C 120V | ac40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 20C 138V | ac40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| -20C 120V | ac40 | 5795 | Ant1 | 5794.92 | -80000 | -13.81 | 25 | Pass |
| -10C 120V | ac40 | 5795 | Ant1 | 5795 | 0 | 0 | 25 | Pass |
| 0C 120V | ac40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 10C 120V | ac40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 30C 120V | ac40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 40C 120V | ac40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 50C 120V | ac40 | 5795 | Ant1 | 5794.96 | -40000 | -6.9 | 25 | Pass |
| 20C 102V | ac80 | 5775 | Ant1 | 5774.92 | -80000 | -13.85 | 25 | Pass |
| 20C 120V | ac80 | 5775 | Ant1 | 5775 | 0 | 0 | 25 | Pass |
| 20C 138V | ac80 | 5775 | Ant1 | 5774.92 | -80000 | -13.85 | 25 | Pass |
| -20C 120V | ac80 | 5775 | Ant1 | 5775 | 0 | 0 | 25 | Pass |
| -10C 120V | ac80 | 5775 | Ant1 | 5774.92 | -80000 | -13.85 | 25 | Pass |
| 0C 120V | ac80 | 5775 | Ant1 | 5775 | 0 | 0 | 25 | Pass |
| 10C 120V | ac80 | 5775 | Ant1 | 5774.92 | -80000 | -13.85 | 25 | Pass |
| 30C 120V | ac80 | 5775 | Ant1 | 5775 | 0 | 0 | 25 | Pass |
| 40C 120V | ac80 | 5775 | Ant1 | 5774.92 | -80000 | -13.85 | 25 | Pass |
| 50C 120V | ac80 | 5775 | Ant1 | 5774.92 | -80000 | -13.85 | 25 | Pass |

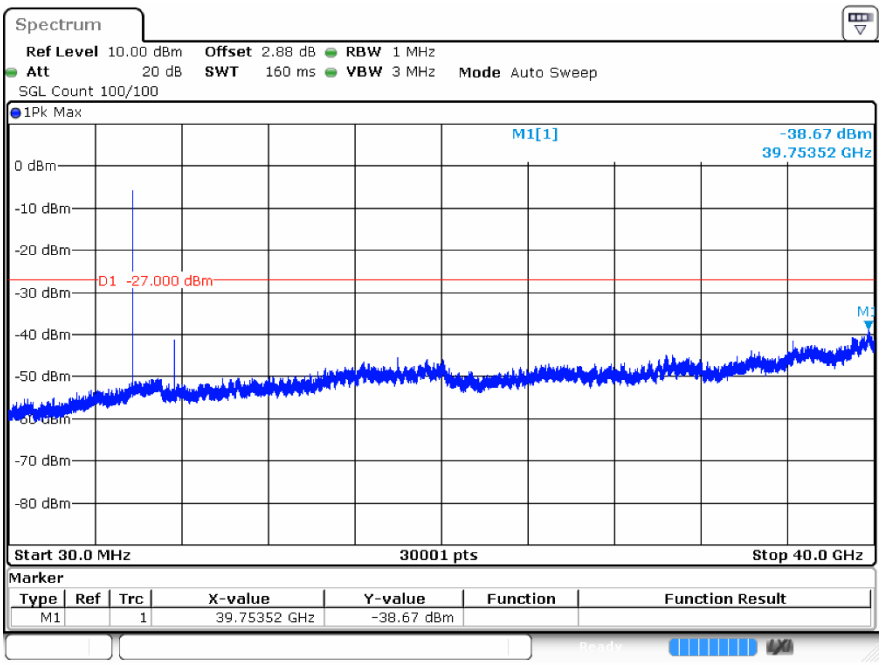
# 7 Conducted RF Spurious Emission

## 7.1 Test Result

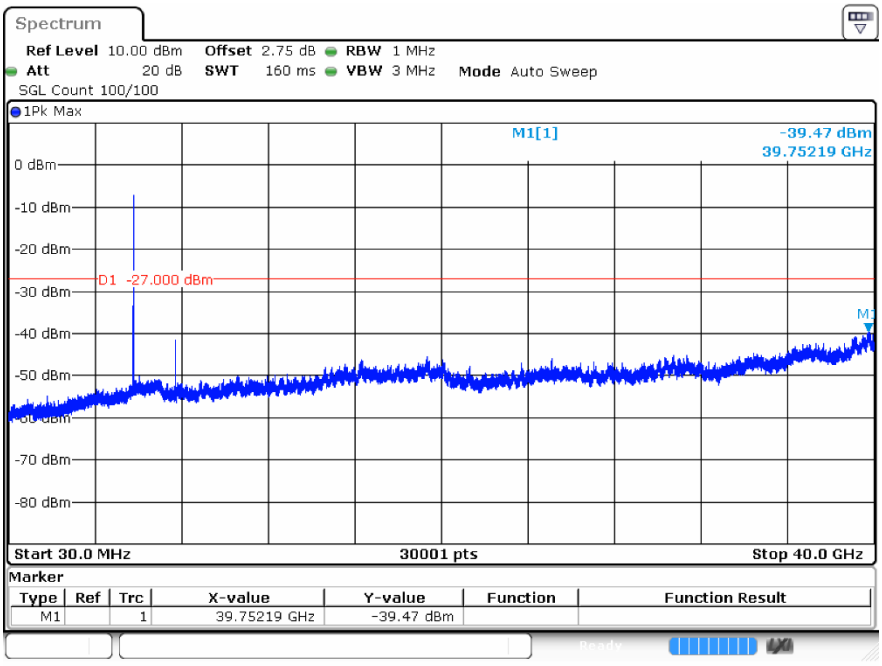
| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|
| a | 5745 | Ant1 | -38.66 | -27 | Pass |
| a | 5785 | Ant1 | -39.46 | -27 | Pass |
| a | 5825 | Ant1 | -39.48 | -27 | Pass |
| n20 | 5745 | Ant1 | -38.45 | -27 | Pass |
| n20 | 5785 | Ant1 | -39.31 | -27 | Pass |
| n20 | 5825 | Ant1 | -39.04 | -27 | Pass |
| n40 | 5755 | Ant1 | -39.12 | -27 | Pass |
| n40 | 5795 | Ant1 | -38.81 | -27 | Pass |
| ac20 | 5745 | Ant1 | -38.22 | -27 | Pass |
| ac20 | 5785 | Ant1 | -38.12 | -27 | Pass |
| ac20 | 5825 | Ant1 | -39.38 | -27 | Pass |
| ac40 | 5755 | Ant1 | -38.89 | -27 | Pass |
| ac40 | 5795 | Ant1 | -39.31 | -27 | Pass |
| ac80 | 5775 | Ant1 | -38.55 | -27 | Pass |

## 7.2 Test Graphs

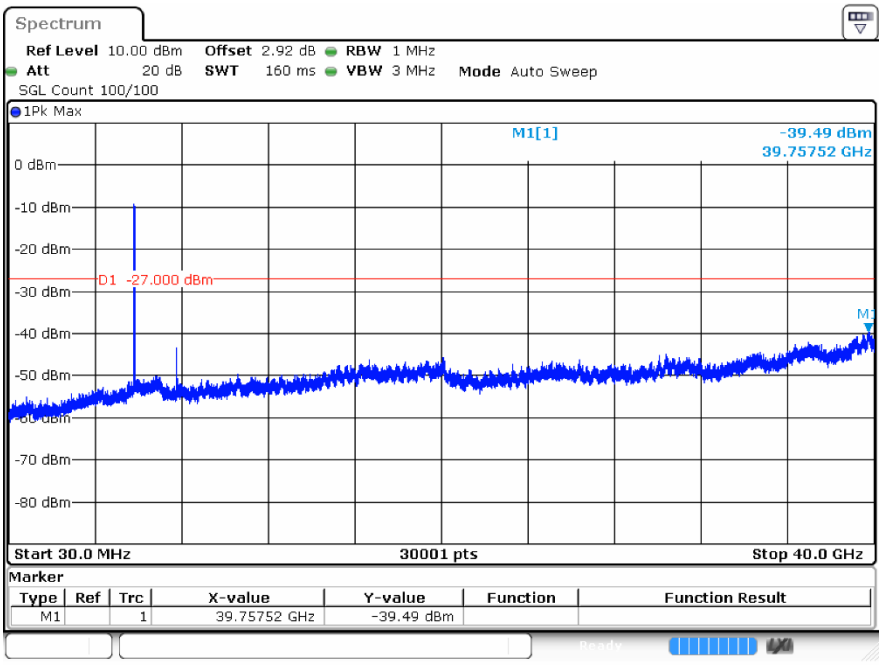
| Test Graphs |
| --- |
| Tx. Spurious a 5745MHz Ant1 Emission |



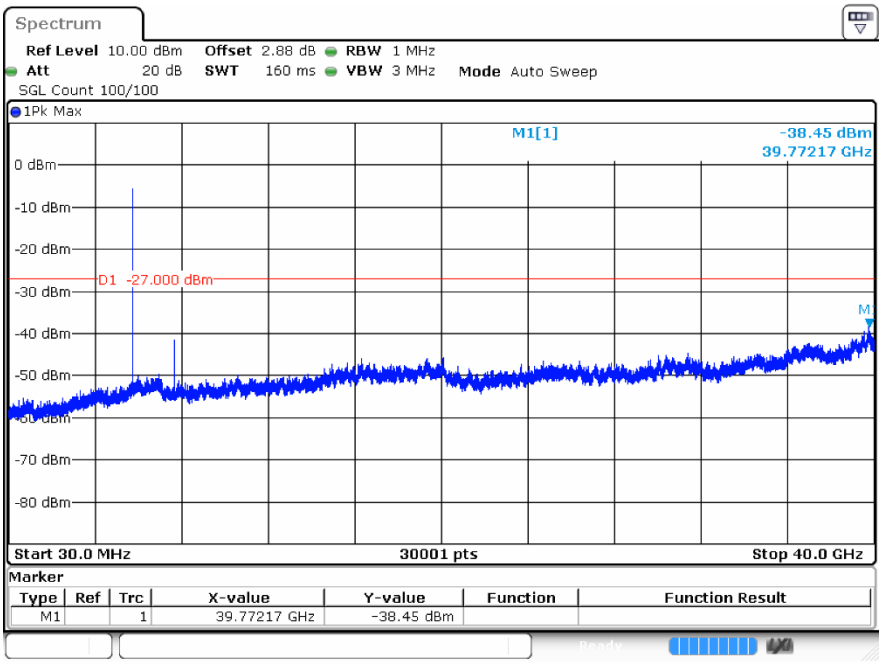

| Tx. Spurious a 5785MHz Ant1 Emission |
| --- |



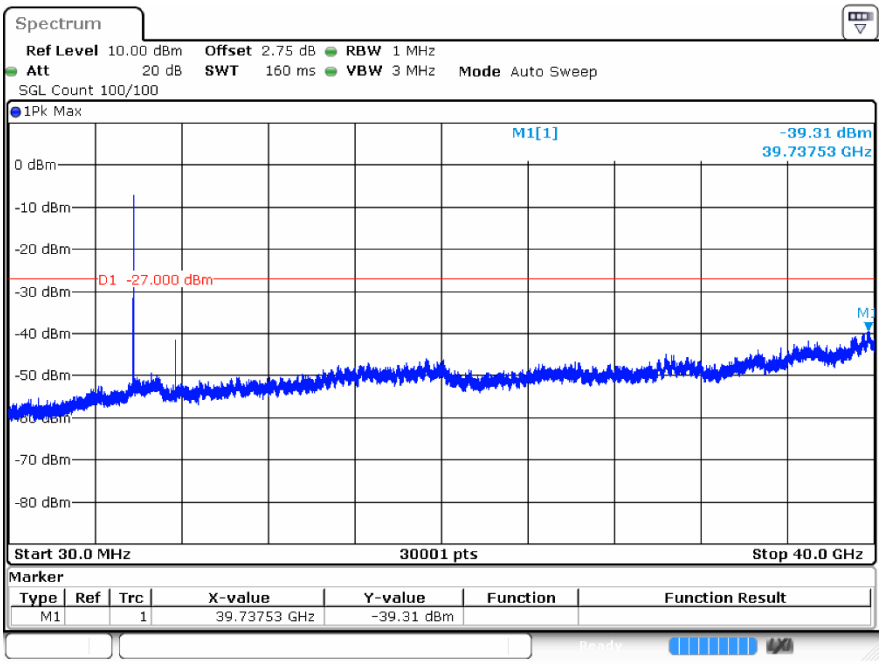
Tx. Spurious a 5825MHz Ant1 Emission



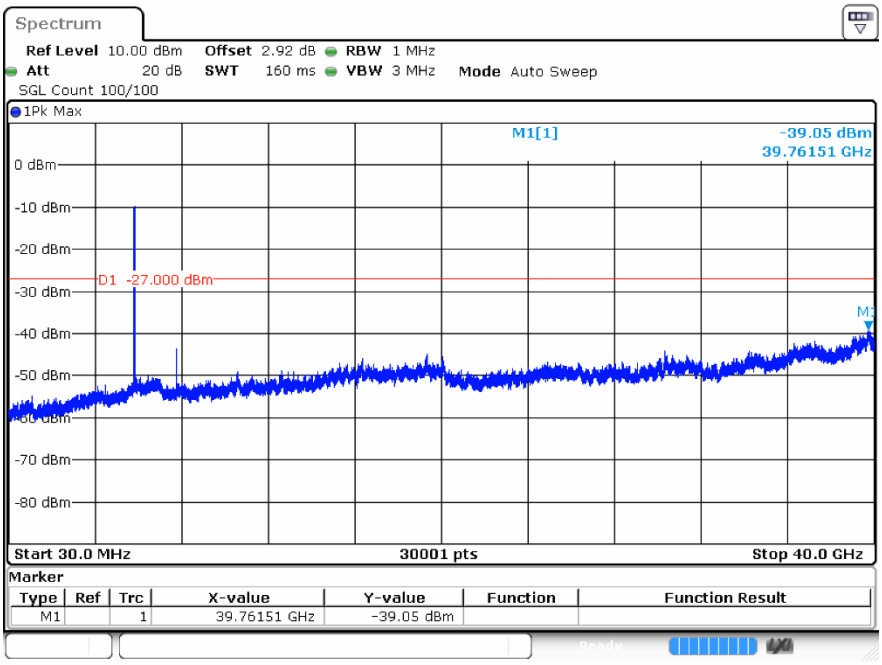

Tx. Spurious n20 5745MHz Ant1 Emission



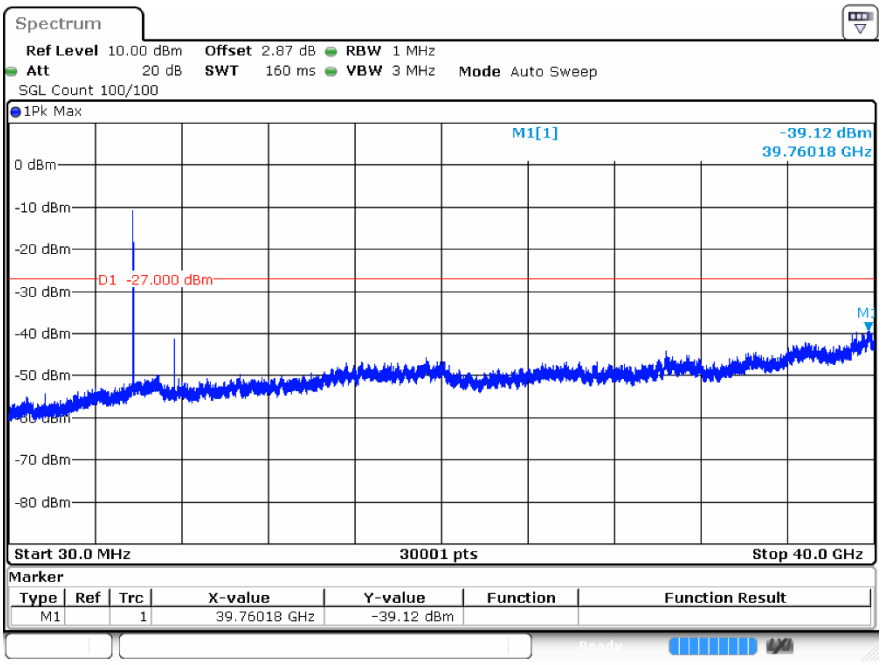
Tx. Spurious n20 5785MHz Ant1 Emission



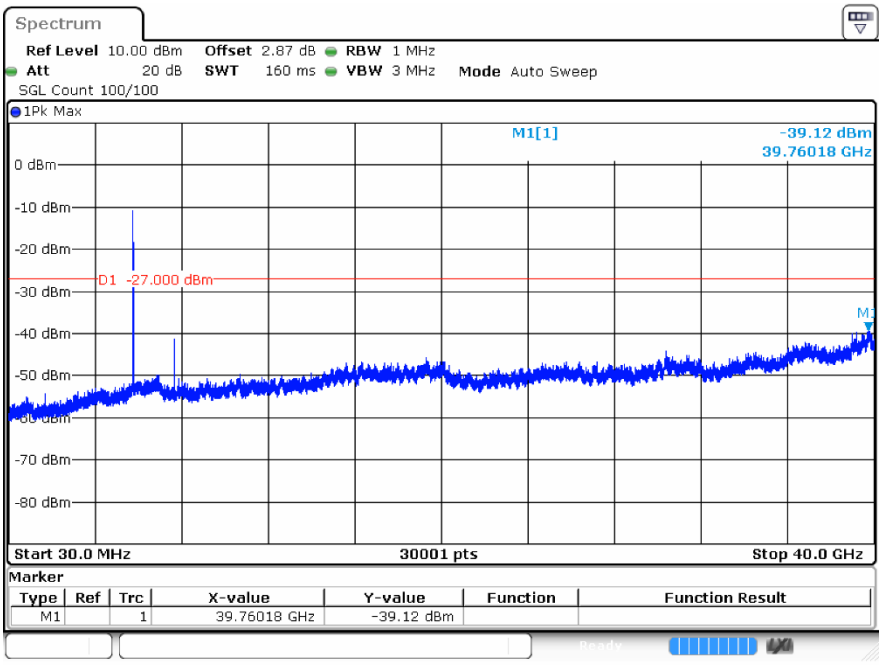

Tx. Spurious n20 5825MHz Ant1 Emission



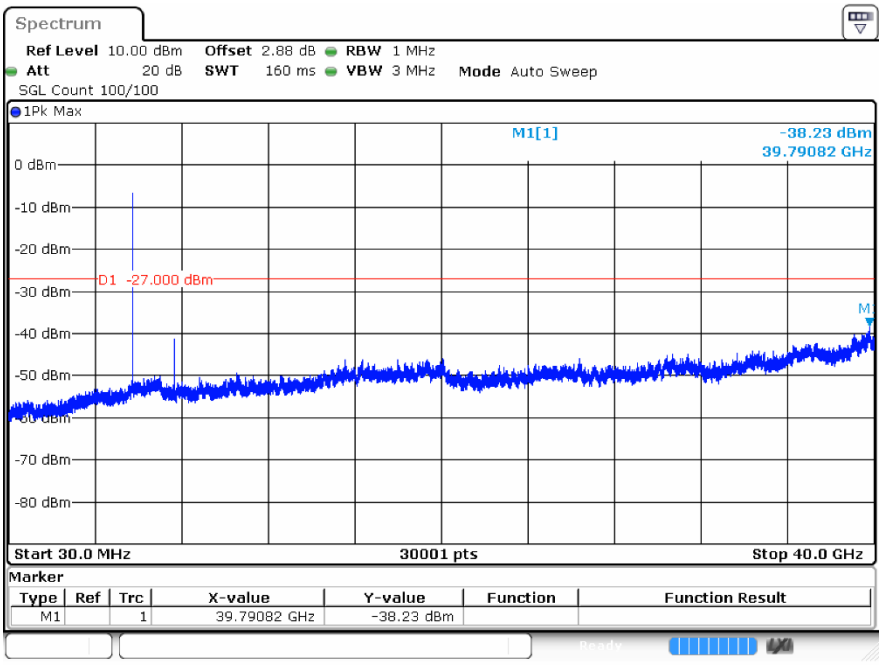
Tx. Spurious n40 5755MHz Ant1 Emission



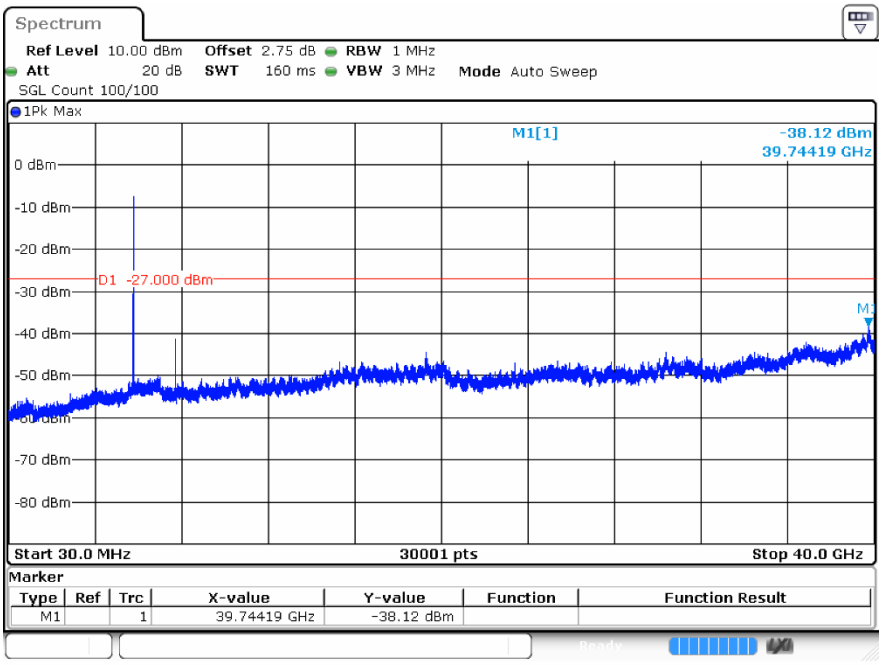

Tx. Spurious n40 5795MHz Ant1 Emission



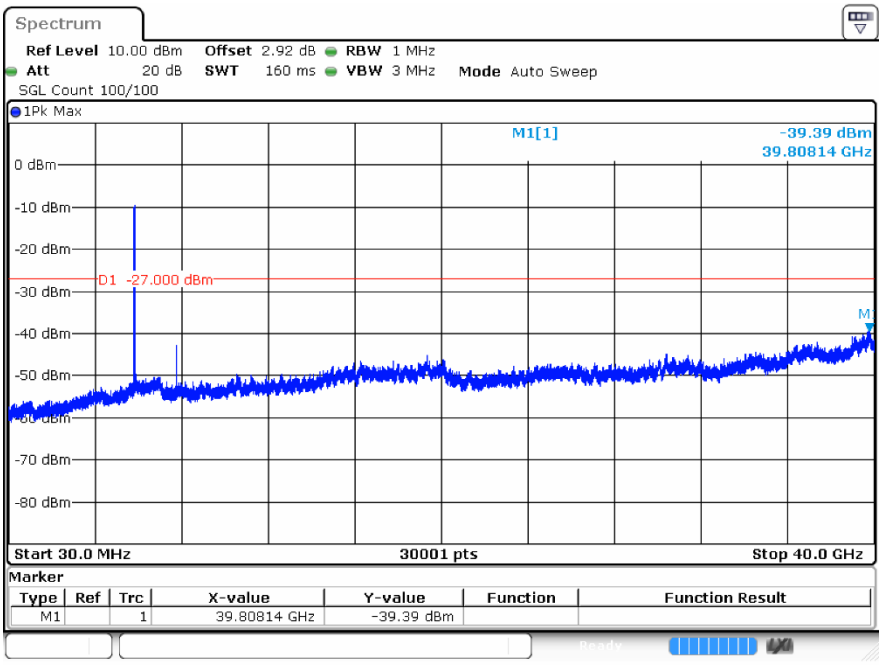
Tx. Spurious ac20 5745MHz Ant1 Emission



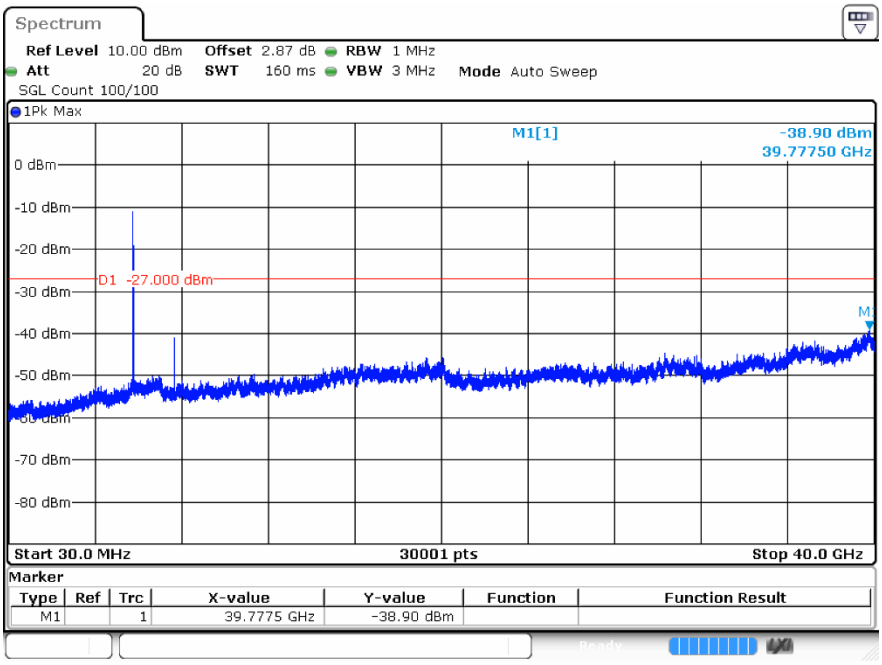

Tx. Spurious ac20 5785MHz Ant1 Emission



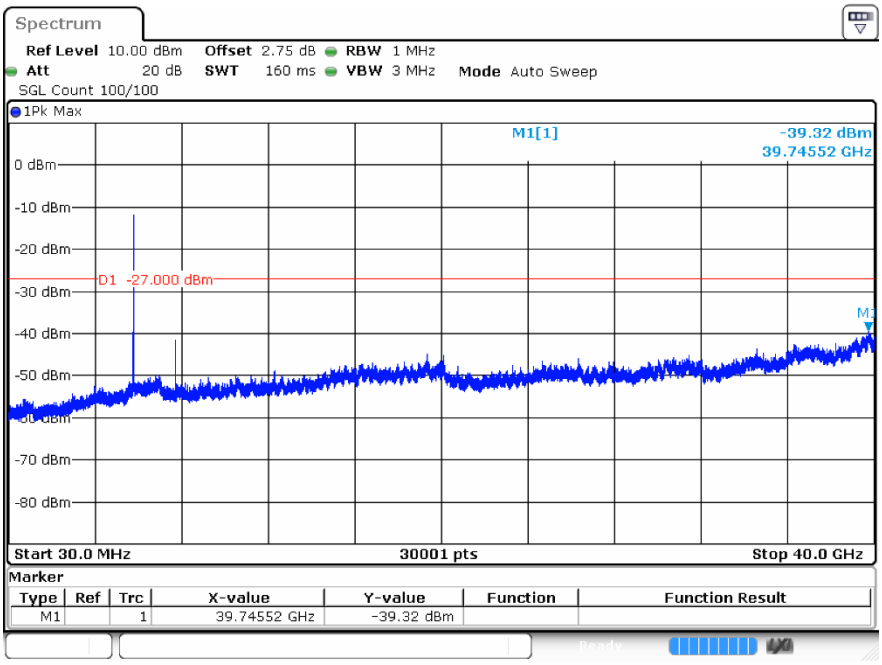
Tx. Spurious ac20 5825MHz Ant1 Emission



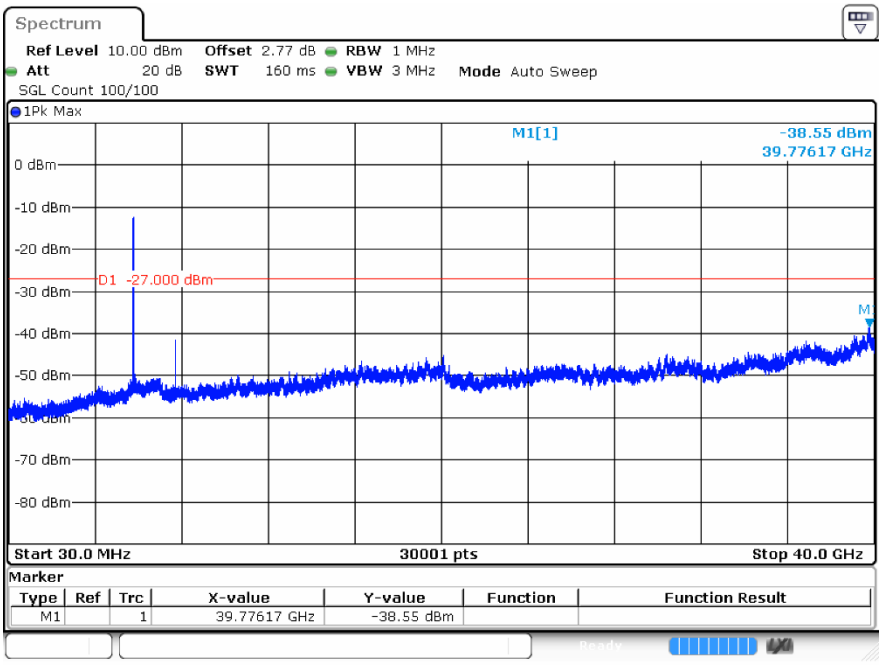

Tx. Spurious ac40 5755MHz Ant1 Emission



Tx. Spurious ac40 5795MHz Ant1 Emission




Tx. Spurious ac80 5775MHz Ant1 Emission



# 8 Restrict Band

## 8.1 Test Result

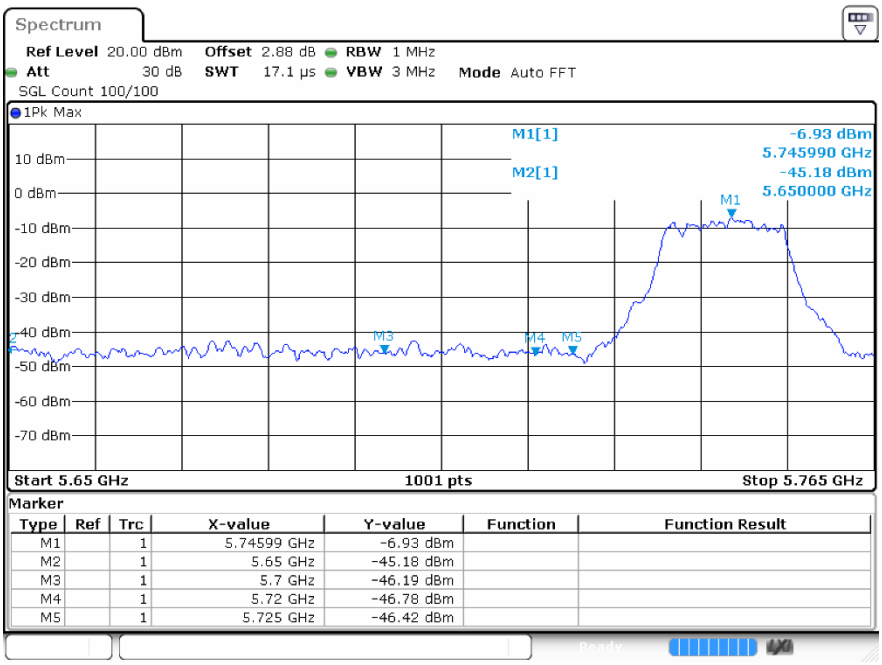
| Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| a | 5745 | Ant1 | 5650 | -45.18 | 2 | -43.18 | Peak | -27 | Pass |
| a | 5745 | Ant1 | 5650 | -55.17 | 2 | -53.17 | Average | -27 | Pass |
| a | 5745 | Ant1 | 5700 | -46.19 | 2 | -44.19 | Peak | 10 | Pass |
| a | 5745 | Ant1 | 5700 | -54.95 | 2 | -52.95 | Average | 10 | Pass |
| a | 5745 | Ant1 | 5720 | -46.77 | 2 | -44.77 | Peak | 15.6 | Pass |
| a | 5745 | Ant1 | 5720 | -55.15 | 2 | -53.15 | Average | 15.6 | Pass |
| a | 5745 | Ant1 | 5725 | -46.45 | 2 | -44.45 | Peak | 27 | Pass |
| a | 5745 | Ant1 | 5725 | -55.18 | 2 | -53.18 | Average | 27 | Pass |
| a | 5825 | Ant1 | 5850 | -46.86 | 2 | -44.86 | Peak | 27 | Pass |
| a | 5825 | Ant1 | 5850 | -54.53 | 2 | -52.53 | Average | 27 | Pass |
| a | 5825 | Ant1 | 5855 | -43.6 | 2 | -41.6 | Peak | 15.6 | Pass |
| a | 5825 | Ant1 | 5855 | -54.52 | 2 | -52.52 | Average | 15.6 | Pass |
| a | 5825 | Ant1 | 5875 | -45.47 | 2 | -43.47 | Peak | 10 | Pass |
| a | 5825 | Ant1 | 5875 | -54.32 | 2 | -52.32 | Average | 10 | Pass |
| a | 5825 | Ant1 | 5925 | -44.13 | 2 | -42.13 | Peak | -27 | Pass |
| a | 5825 | Ant1 | 5925 | -54.05 | 2 | -52.05 | Average | -27 | Pass |
| n20 | 5745 | Ant1 | 5650 | -45.1 | 2 | -43.1 | Peak | -27 | Pass |
| n20 | 5745 | Ant1 | 5650 | -54.74 | 2 | -52.74 | Average | -27 | Pass |
| n20 | 5745 | Ant1 | 5700 | -45.06 | 2 | -43.06 | Peak | 10 | Pass |
| n20 | 5745 | Ant1 | 5700 | -54.35 | 2 | -52.35 | Average | 10 | Pass |
| n20 | 5745 | Ant1 | 5720 | -45.83 | 2 | -43.83 | Peak | 15.6 | Pass |
| n20 | 5745 | Ant1 | 5720 | -55.01 | 2 | -53.01 | Average | 15.6 | Pass |
| n20 | 5745 | Ant1 | 5725 | -46.46 | 2 | -44.46 | Peak | 27 | Pass |
| n20 | 5745 | Ant1 | 5725 | -54.74 | 2 | -52.74 | Average | 27 | Pass |
| n20 | 5825 | Ant1 | 5850 | -46.58 | 2 | -44.58 | Peak | 27 | Pass |
| n20 | 5825 | Ant1 | 5850 | -54.34 | 2 | -52.34 | Average | 27 | Pass |
| n20 | 5825 | Ant1 | 5855 | -44.5 | 2 | -42.5 | Peak | 15.6 | Pass |
| n20 | 5825 | Ant1 | 5855 | -54.3 | 2 | -52.3 | Average | 15.6 | Pass |
| n20 | 5825 | Ant1 | 5875 | -42.53 | 2 | -40.53 | Peak | 10 | Pass |
| n20 | 5825 | Ant1 | 5875 | -54.31 | 2 | -52.31 | Average | 10 | Pass |
| n20 | 5825 | Ant1 | 5925 | -43.33 | 2 | -41.33 | Peak | -27 | Pass |
| n20 | 5825 | Ant1 | 5925 | -54.11 | 2 | -52.11 | Average | -27 | Pass |
| n40 | 5755 | Ant1 | 5650 | -46.72 | 2 | -44.72 | Peak | -27 | Pass |
| n40 | 5755 | Ant1 | 5650 | -54.31 | 2 | -52.31 | Average | -27 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| n40 | 5755 | Ant1 | 5700 | -47.36 | 2 | -45.36 | Peak | 10 | Pass |
| n40 | 5755 | Ant1 | 5700 | -54.38 | 2 | -52.38 | Average | 10 | Pass |
| n40 | 5755 | Ant1 | 5720 | -45.9 | 2 | -43.9 | Peak | 15.6 | Pass |
| n40 | 5755 | Ant1 | 5720 | -54.61 | 2 | -52.61 | Average | 15.6 | Pass |
| n40 | 5755 | Ant1 | 5725 | -47.57 | 2 | -45.57 | Peak | 27 | Pass |
| n40 | 5755 | Ant1 | 5725 | -54.42 | 2 | -52.42 | Average | 27 | Pass |
| n40 | 5795 | Ant1 | 5850 | -47.2 | 2 | -45.2 | Peak | 27 | Pass |
| n40 | 5795 | Ant1 | 5850 | -54 | 2 | -52 | Average | 27 | Pass |
| n40 | 5795 | Ant1 | 5855 | -43.79 | 2 | -41.79 | Peak | 15.6 | Pass |
| n40 | 5795 | Ant1 | 5855 | -53.46 | 2 | -51.46 | Average | 15.6 | Pass |
| n40 | 5795 | Ant1 | 5875 | -43.68 | 2 | -41.68 | Peak | 10 | Pass |
| n40 | 5795 | Ant1 | 5875 | -53.66 | 2 | -51.66 | Average | 10 | Pass |
| n40 | 5795 | Ant1 | 5925 | -46.01 | 2 | -44.01 | Peak | -27 | Pass |
| n40 | 5795 | Ant1 | 5925 | -53.54 | 2 | -51.54 | Average | -27 | Pass |
| ac20 | 5745 | Ant1 | 5650 | -45.94 | 2 | -43.94 | Peak | -27 | Pass |
| ac20 | 5745 | Ant1 | 5650 | -54.57 | 2 | -52.57 | Average | -27 | Pass |
| ac20 | 5745 | Ant1 | 5700 | -45.98 | 2 | -43.98 | Peak | 10 | Pass |
| ac20 | 5745 | Ant1 | 5700 | -54.76 | 2 | -52.76 | Average | 10 | Pass |
| ac20 | 5745 | Ant1 | 5720 | -47.34 | 2 | -45.34 | Peak | 15.6 | Pass |
| ac20 | 5745 | Ant1 | 5720 | -55.07 | 2 | -53.07 | Average | 15.6 | Pass |
| ac20 | 5745 | Ant1 | 5725 | -46.09 | 2 | -44.09 | Peak | 27 | Pass |
| ac20 | 5745 | Ant1 | 5725 | -55.1 | 2 | -53.1 | Average | 27 | Pass |
| ac20 | 5825 | Ant1 | 5850 | -45.45 | 2 | -43.45 | Peak | 27 | Pass |
| ac20 | 5825 | Ant1 | 5850 | -54.31 | 2 | -52.31 | Average | 27 | Pass |
| ac20 | 5825 | Ant1 | 5855 | -46.15 | 2 | -44.15 | Peak | 15.6 | Pass |
| ac20 | 5825 | Ant1 | 5855 | -54.43 | 2 | -52.43 | Average | 15.6 | Pass |
| ac20 | 5825 | Ant1 | 5875 | -45.89 | 2 | -43.89 | Peak | 10 | Pass |
| ac20 | 5825 | Ant1 | 5875 | -54.02 | 2 | -52.02 | Average | 10 | Pass |
| ac20 | 5825 | Ant1 | 5925 | -45.48 | 2 | -43.48 | Peak | -27 | Pass |
| ac20 | 5825 | Ant1 | 5925 | -54.44 | 2 | -52.44 | Average | -27 | Pass |
| ac40 | 5755 | Ant1 | 5650 | -45.51 | 2 | -43.51 | Peak | -27 | Pass |
| ac40 | 5755 | Ant1 | 5650 | -54.52 | 2 | -52.52 | Average | -27 | Pass |
| ac40 | 5755 | Ant1 | 5700 | -46.87 | 2 | -44.87 | Peak | 10 | Pass |
| ac40 | 5755 | Ant1 | 5700 | -54.43 | 2 | -52.43 | Average | 10 | Pass |
| ac40 | 5755 | Ant1 | 5720 | -45.43 | 2 | -43.43 | Peak | 15.6 | Pass |
| ac40 | 5755 | Ant1 | 5720 | -54.75 | 2 | -52.75 | Average | 15.6 | Pass |
| ac40 | 5755 | Ant1 | 5725 | -46.33 | 2 | -44.33 | Peak | 27 | Pass |
| ac40 | 5755 | Ant1 | 5725 | -54.22 | 2 | -52.22 | Average | 27 | Pass |
| ac40 | 5795 | Ant1 | 5850 | -43.78 | 2 | -41.78 | Peak | 27 | Pass |
| ac40 | 5795 | Ant1 | 5850 | -54.04 | 2 | -52.04 | Average | 27 | Pass |
| ac40 | 5795 | Ant1 | 5855 | -46.73 | 2 | -44.73 | Peak | 15.6 | Pass |
| ac40 | 5795 | Ant1 | 5855 | -53.81 | 2 | -51.81 | Average | 15.6 | Pass |
| ac40 | 5795 | Ant1 | 5875 | -45.02 | 2 | -43.02 | Peak | 10 | Pass |

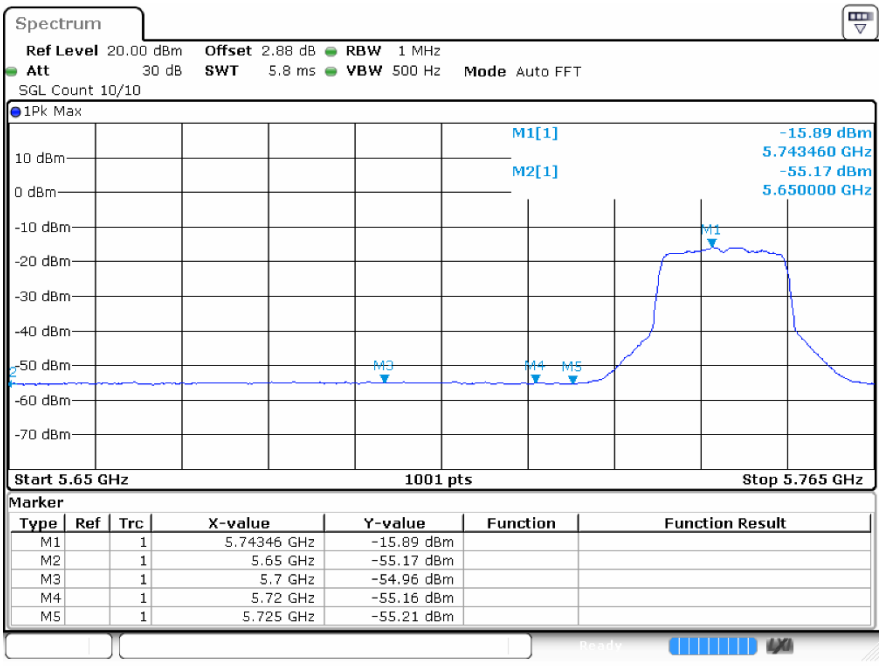
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ac40 | 5795 | Ant1 | 5875 | -53.74 | 2 | -51.74 | Average | 10 | Pass |
| ac40 | 5795 | Ant1 | 5925 | -45.38 | 2 | -43.38 | Peak | -27 | Pass |
| ac40 | 5795 | Ant1 | 5925 | -53.68 | 2 | -51.68 | Average | -27 | Pass |
| ac80 | 5775 | Ant1 | 5650 | -46.77 | 2 | -44.77 | Peak | -27 | Pass |
| ac80 | 5775 | Ant1 | 5650 | -54.58 | 2 | -52.58 | Average | -27 | Pass |
| ac80 | 5775 | Ant1 | 5700 | -46.9 | 2 | -44.9 | Peak | 10 | Pass |
| ac80 | 5775 | Ant1 | 5700 | -54.28 | 2 | -52.28 | Average | 10 | Pass |
| ac80 | 5775 | Ant1 | 5720 | -46.26 | 2 | -44.26 | Peak | 15.6 | Pass |
| ac80 | 5775 | Ant1 | 5720 | -54.83 | 2 | -52.83 | Average | 15.6 | Pass |
| ac80 | 5775 | Ant1 | 5725 | -45.74 | 2 | -43.74 | Peak | 27 | Pass |
| ac80 | 5775 | Ant1 | 5725 | -54.16 | 2 | -52.16 | Average | 27 | Pass |
| ac80 | 5775 | Ant1 | 5850 | -44.92 | 2 | -42.92 | Peak | 27 | Pass |
| ac80 | 5775 | Ant1 | 5850 | -53.76 | 2 | -51.76 | Average | 27 | Pass |
| ac80 | 5775 | Ant1 | 5855 | -46.64 | 2 | -44.64 | Peak | 15.6 | Pass |
| ac80 | 5775 | Ant1 | 5855 | -53.74 | 2 | -51.74 | Average | 15.6 | Pass |
| ac80 | 5775 | Ant1 | 5875 | -46.08 | 2 | -44.08 | Peak | 10 | Pass |
| ac80 | 5775 | Ant1 | 5875 | -53.54 | 2 | -51.54 | Average | 10 | Pass |
| ac80 | 5775 | Ant1 | 5925 | -43.39 | 2 | -41.39 | Peak | -27 | Pass |
| ac80 | 5775 | Ant1 | 5925 | -53.33 | 2 | -51.33 | Average | -27 | Pass |

## 8.2 Test Graphs

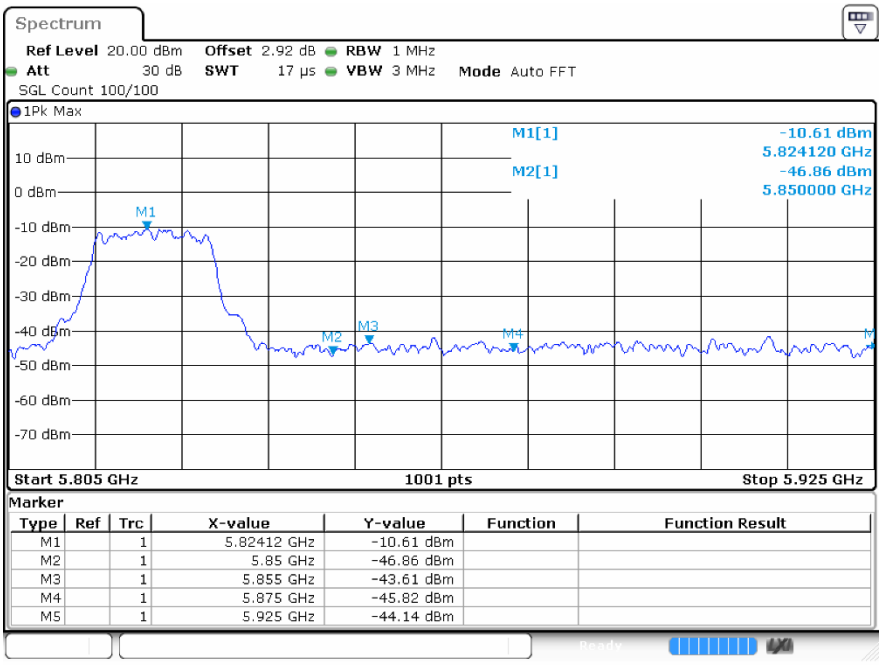
| Test Graphs |
| --- |
| Restrict Band a 5745MHz Ant1 Peak |



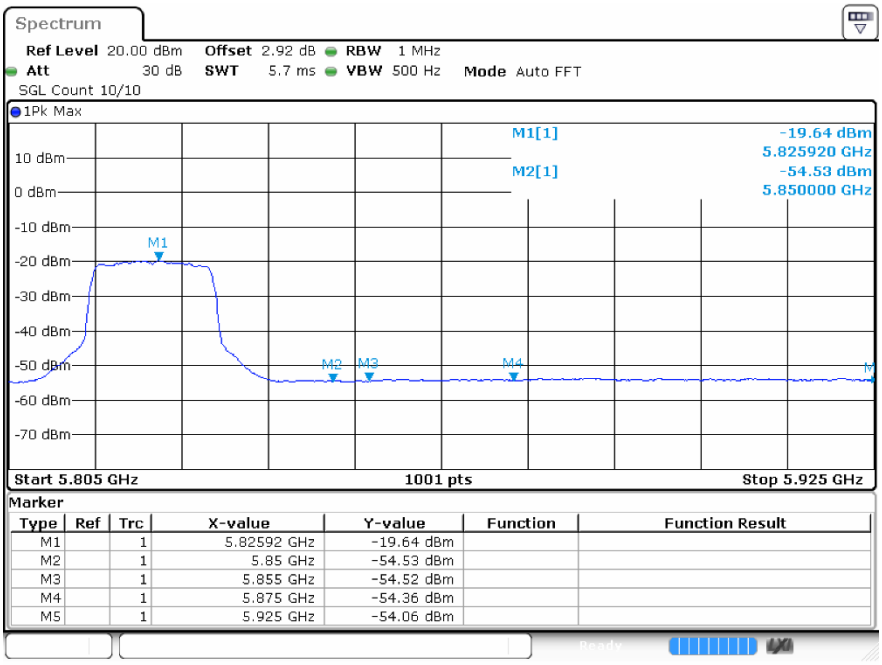

| Restrict Band a 5745MHz Ant1 Average |
| --- |



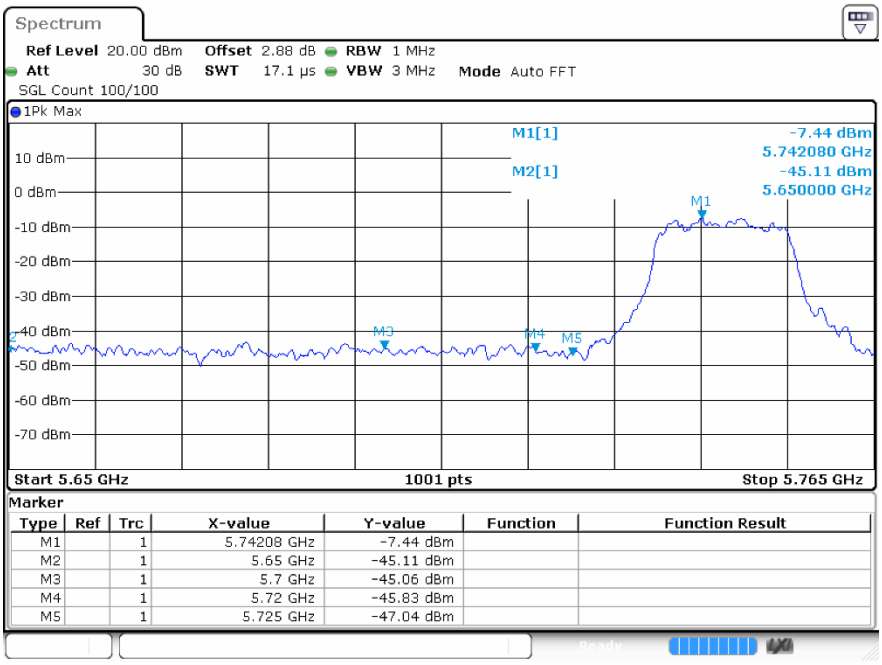
Restrict Band a 5825MHz Ant1 Peak



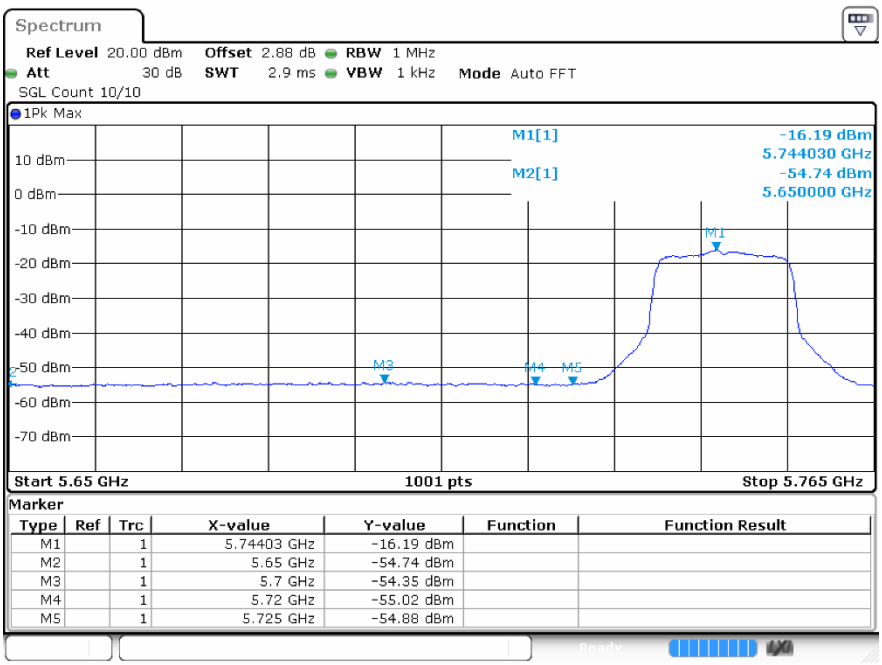

Restrict Band a 5825MHz Ant1 Average



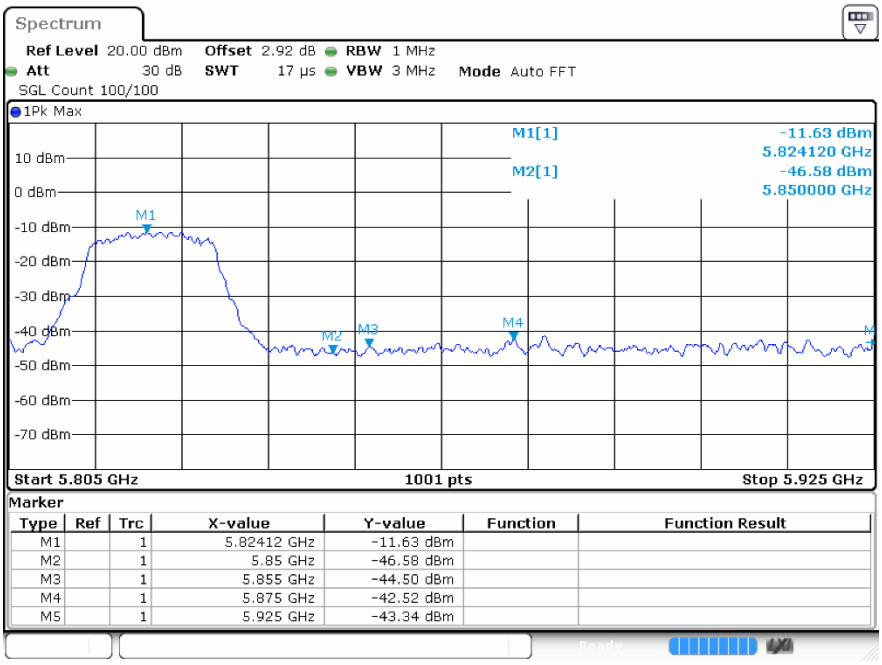
Restrict Band n20 5745MHz Ant1 Peak



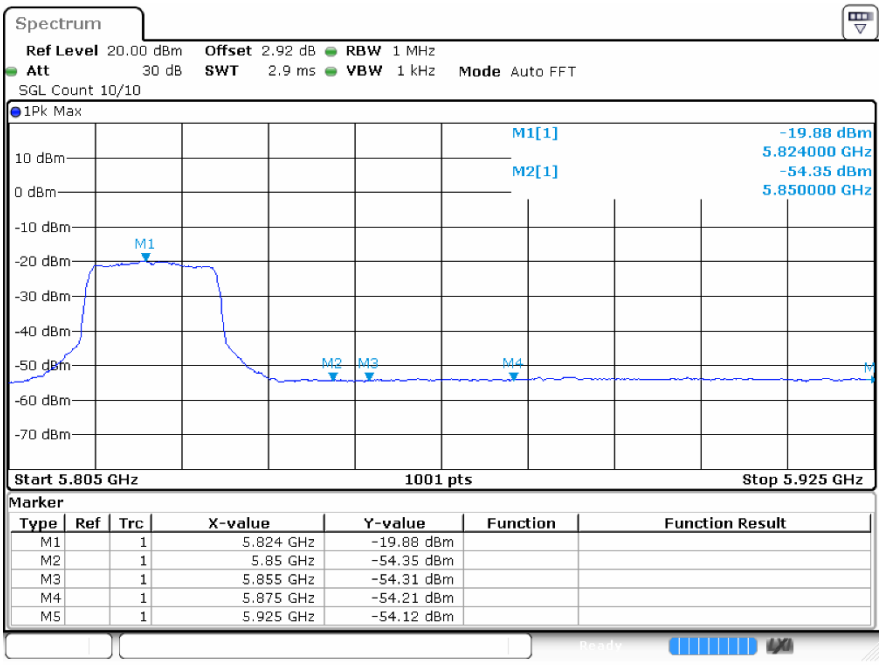

Restrict Band n20 5745MHz Ant1 Average



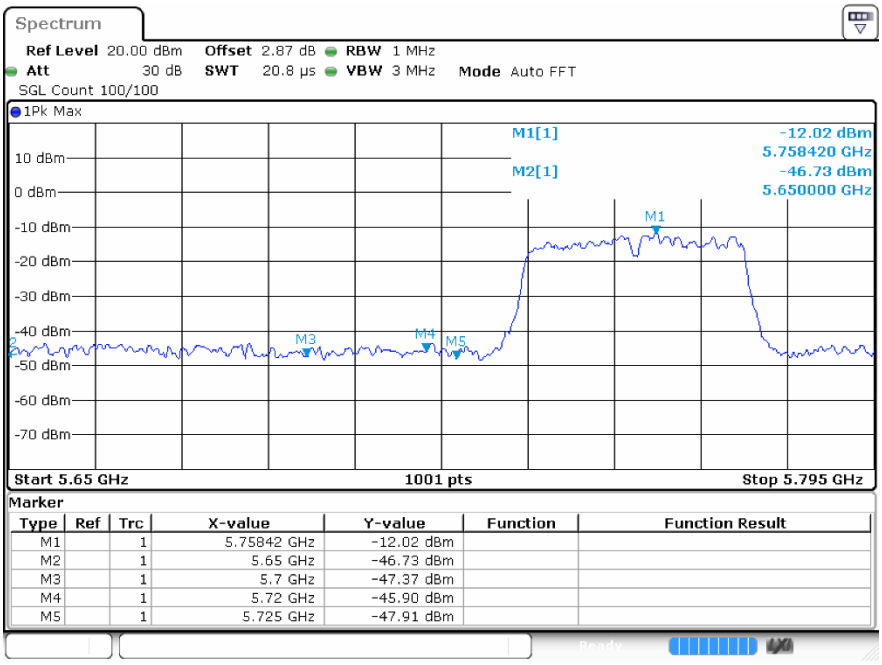
Restrict Band n20 5825MHz Ant1 Peak



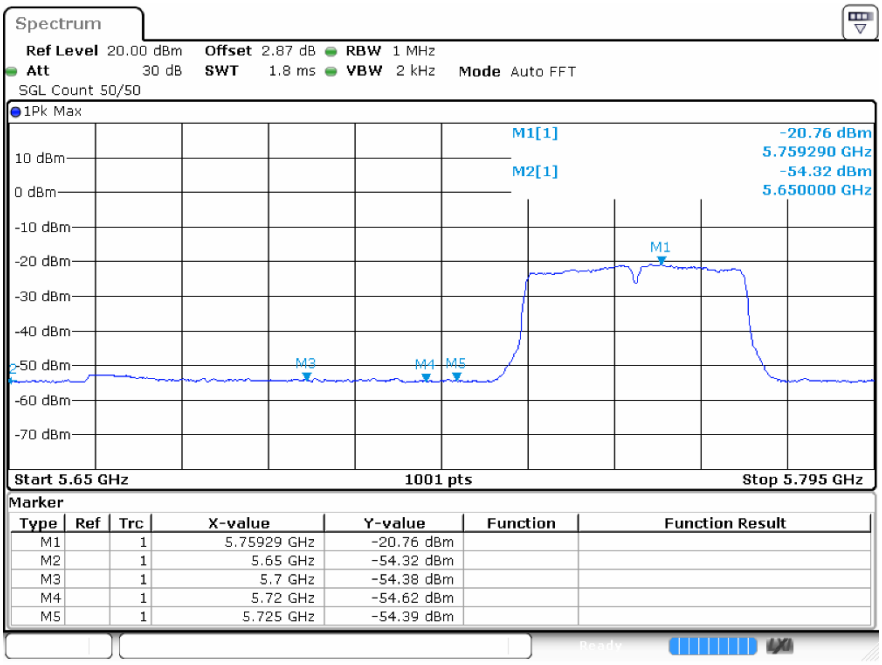

Restrict Band n20 5825MHz Ant1 Average



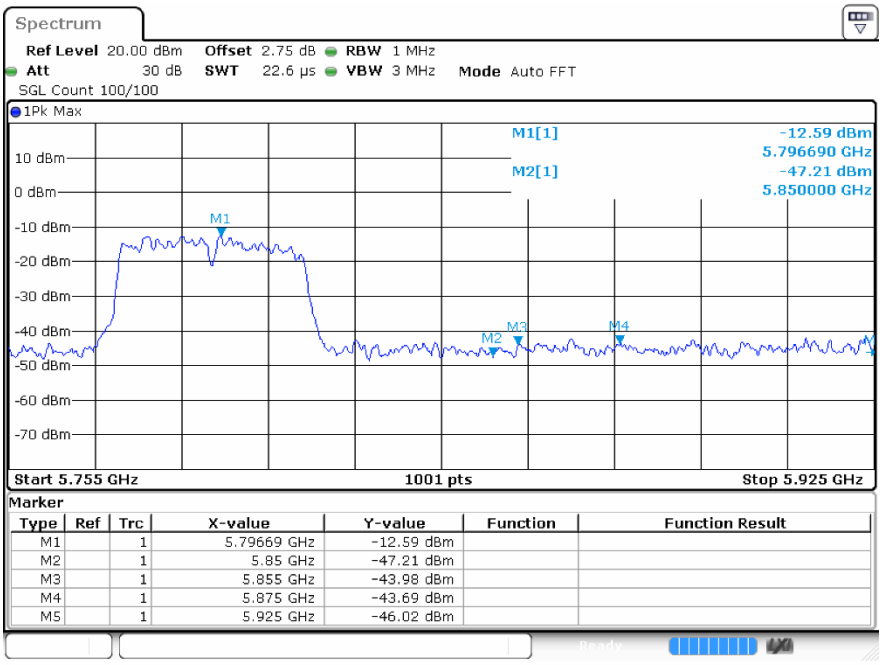
Restrict Band n40 5755MHz Ant1 Peak



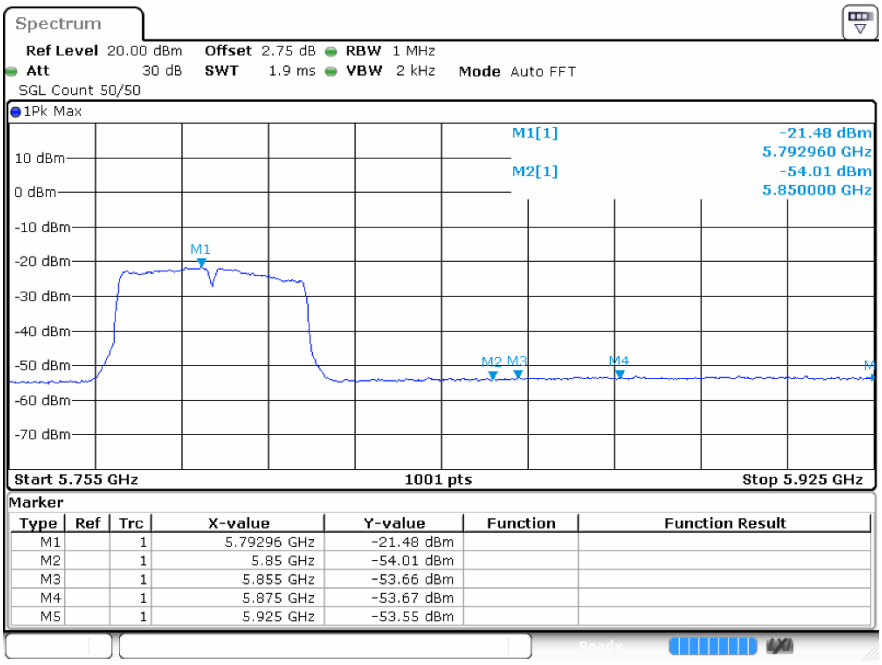

Restrict Band n40 5755MHz Ant1 Average



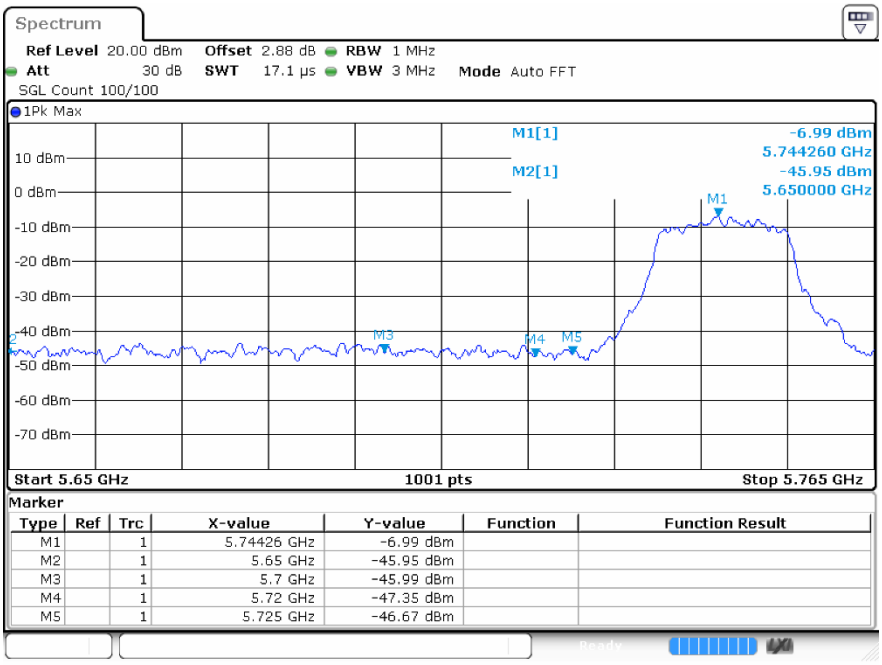
Restrict Band n40 5795MHz Ant1 Peak



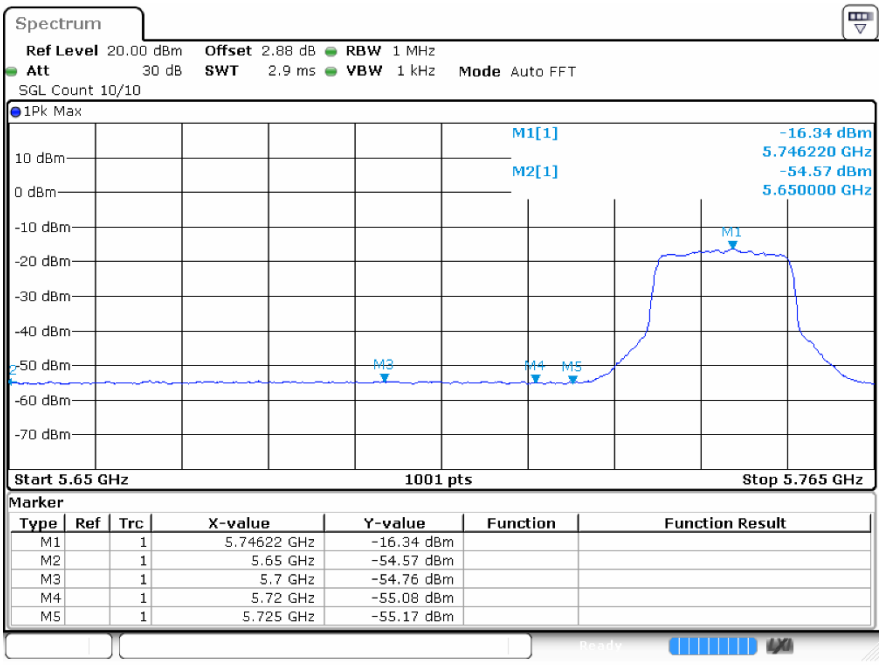

Restrict Band n40 5795MHz Ant1 Average



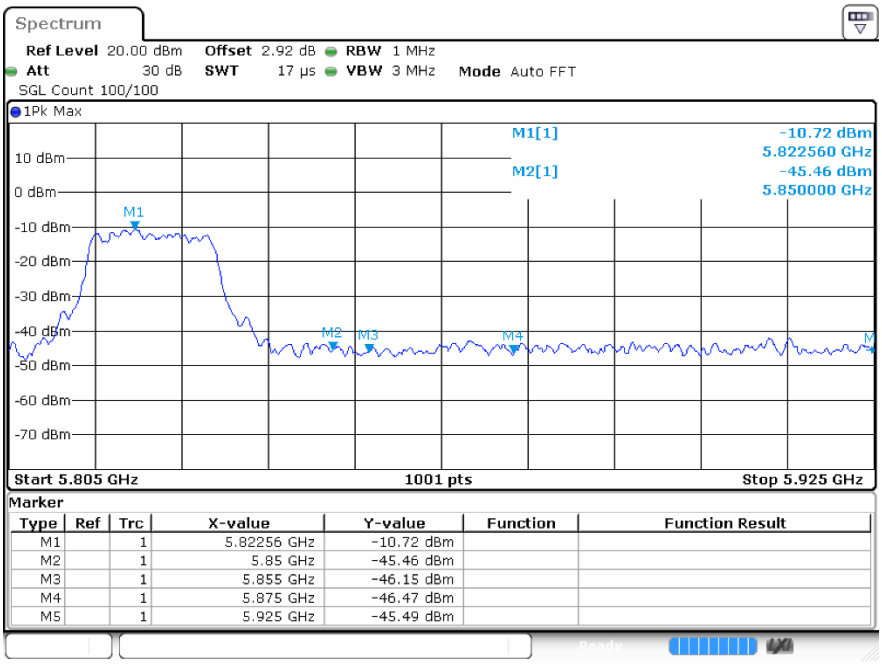
Restrict Band ac20 5745MHz Ant1 Peak



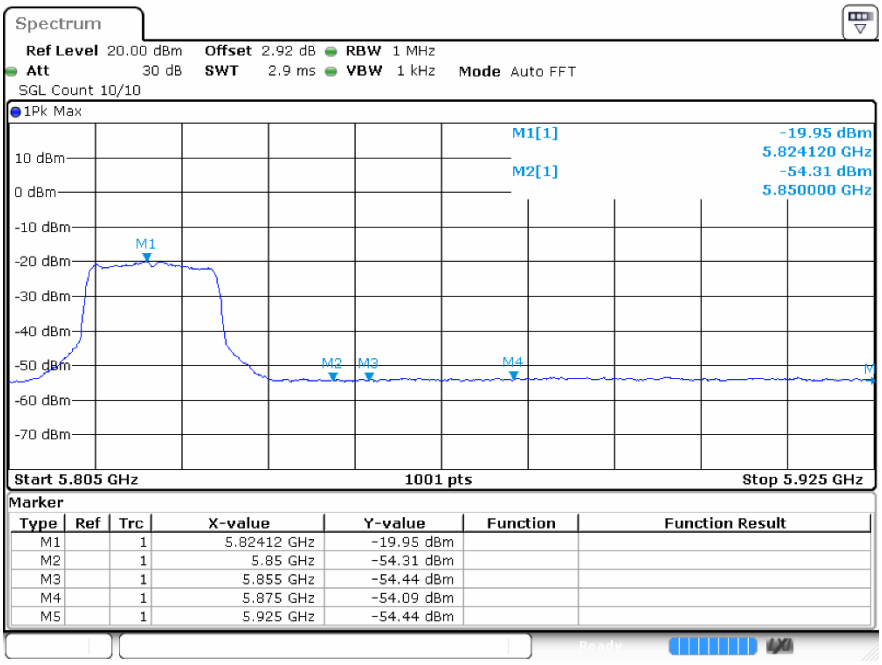

Restrict Band ac20 5745MHz Ant1 Average



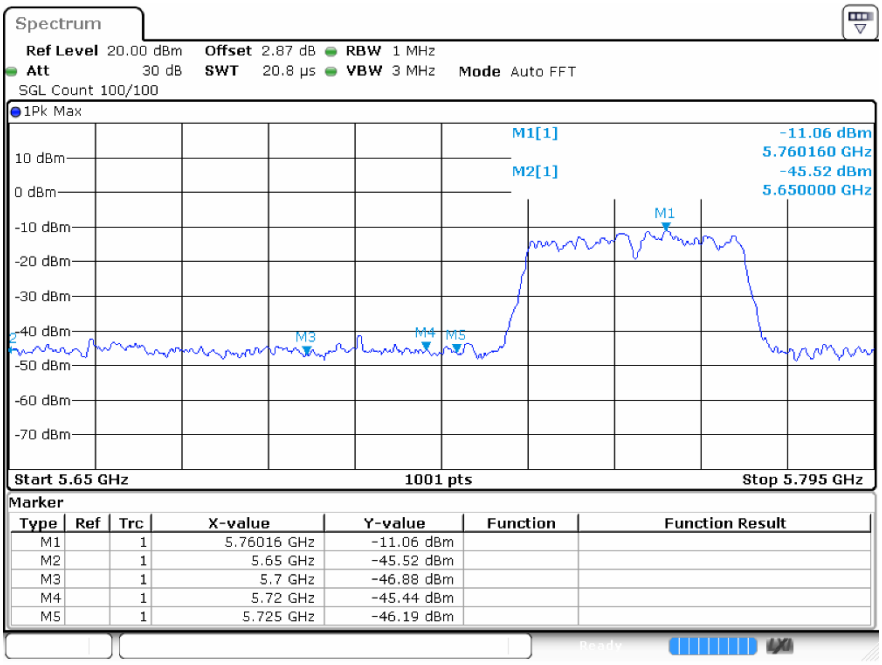
Restrict Band ac20 5825MHz Ant1 Peak



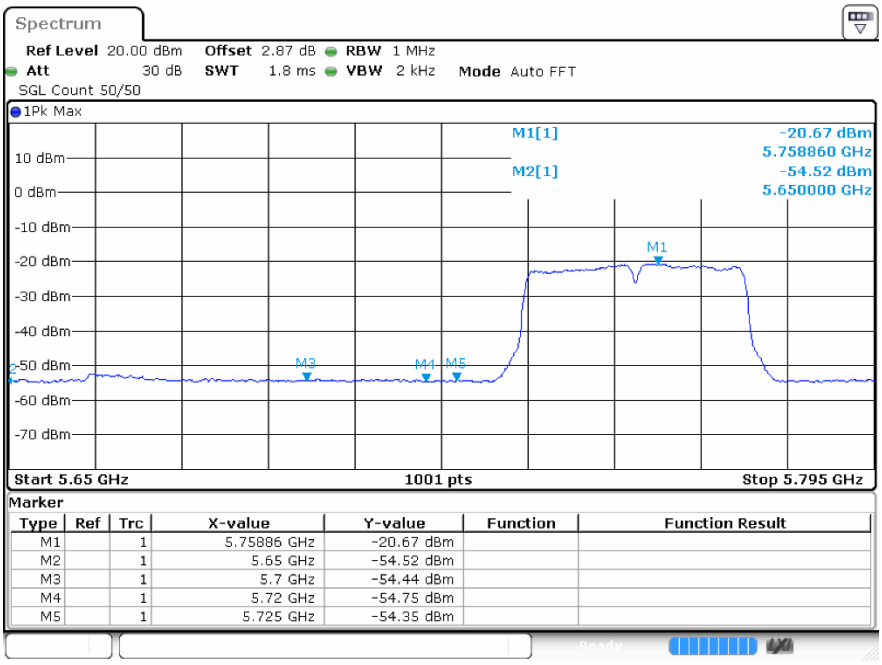

Restrict Band ac20 5825MHz Ant1 Average



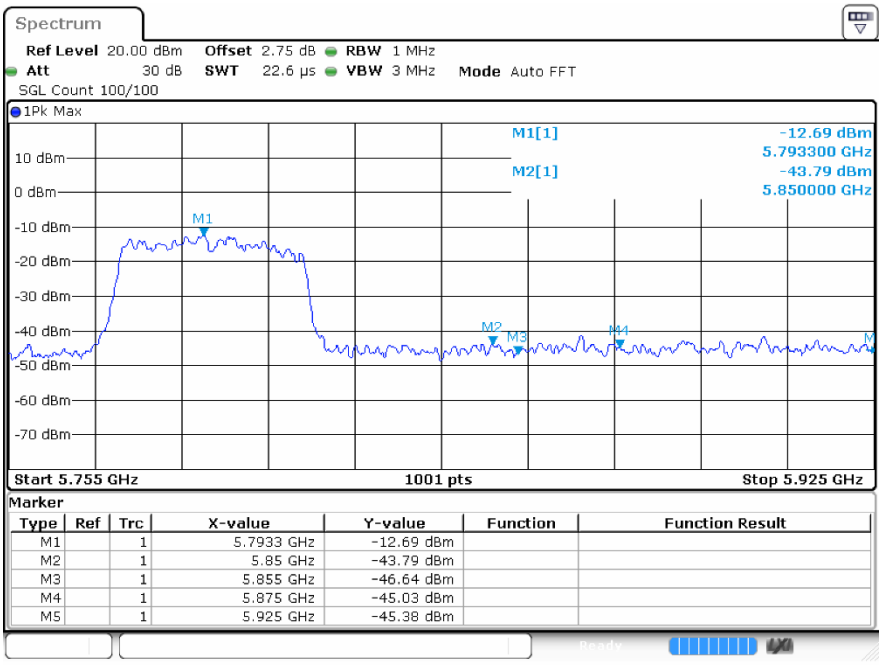
Restrict Band ac40 5755MHz Ant1 Peak



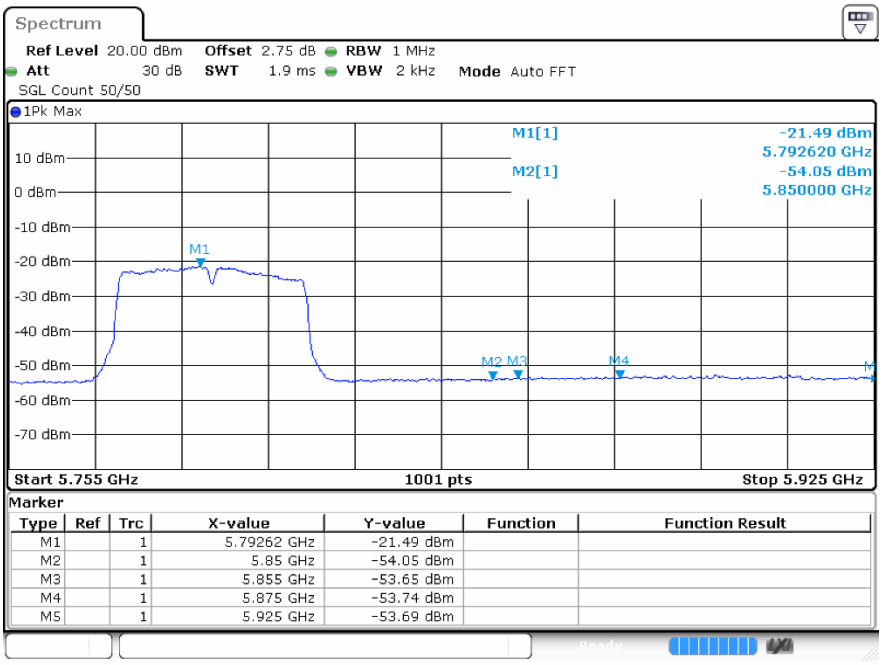

Restrict Band ac40 5755MHz Ant1 Average



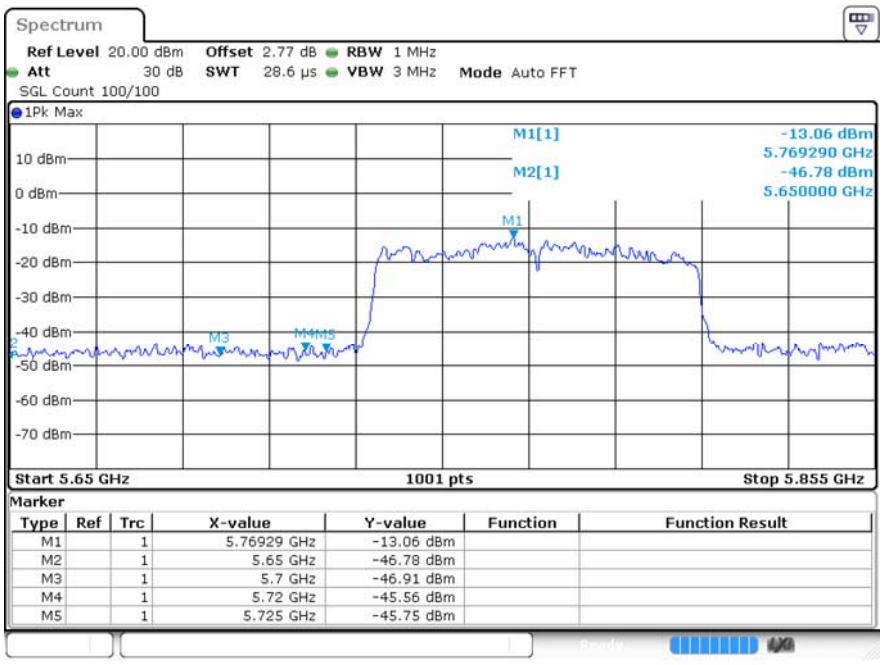
Restrict Band ac40 5795MHz Ant1 Peak



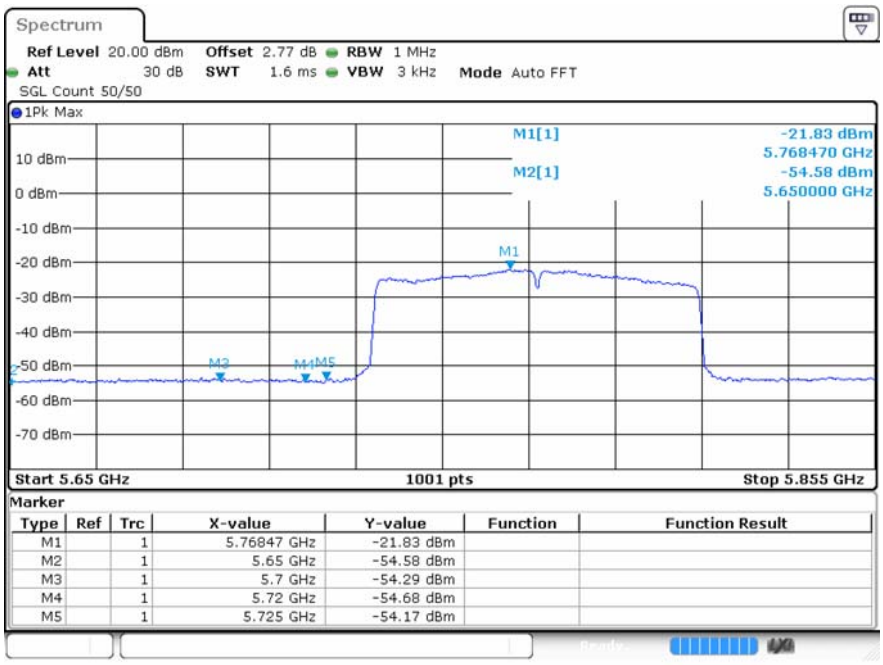

Restrict Band ac40 5795MHz Ant1 Average



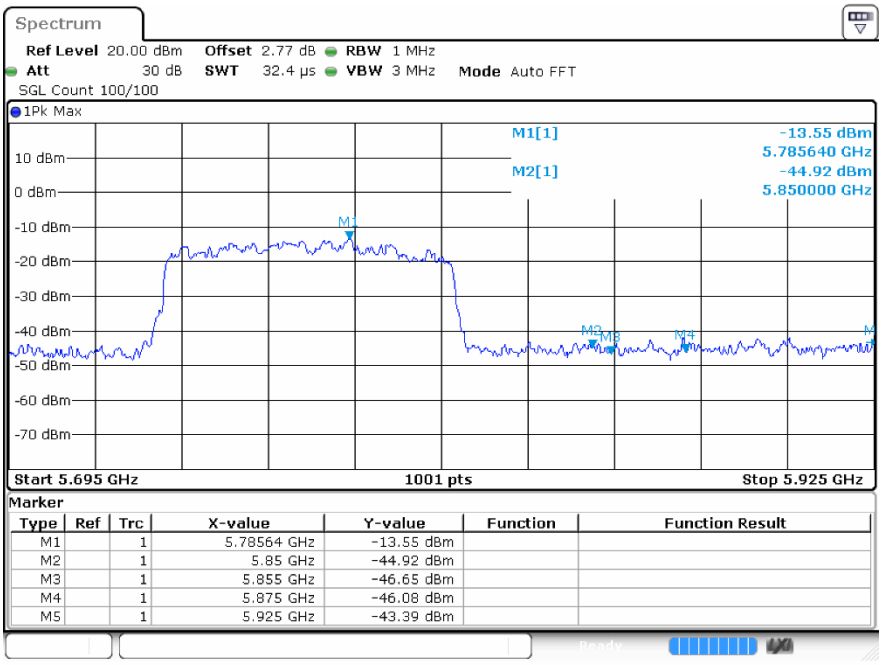
Restrict Band ac80 5775MHz Ant1 Peak



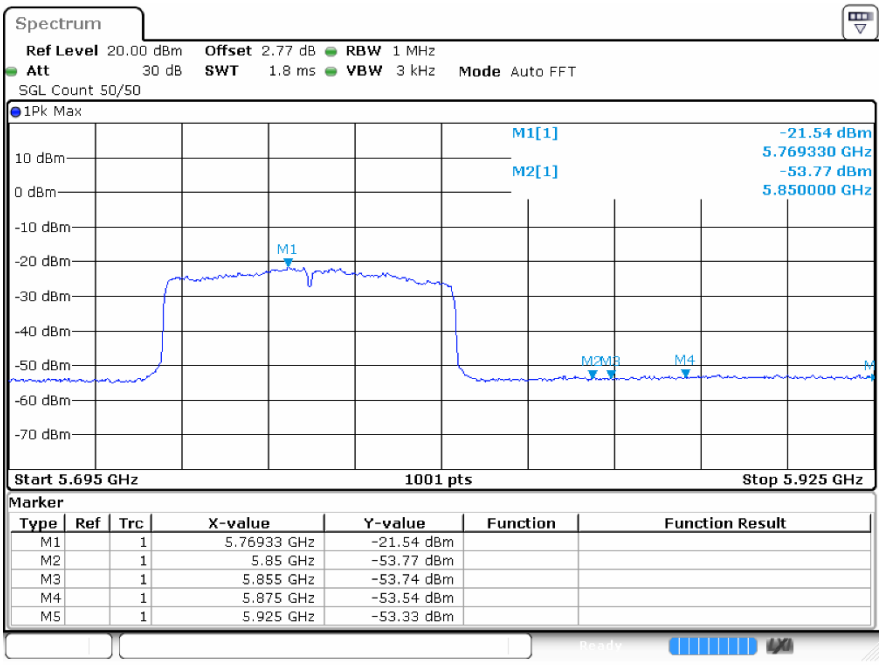

Restrict Band ac80 5775MHz Ant1 Average



Restrict Band ac80 5775MHz Ant1 Peak




Restrict Band ac80 5775MHz Ant1 Average




---The End---