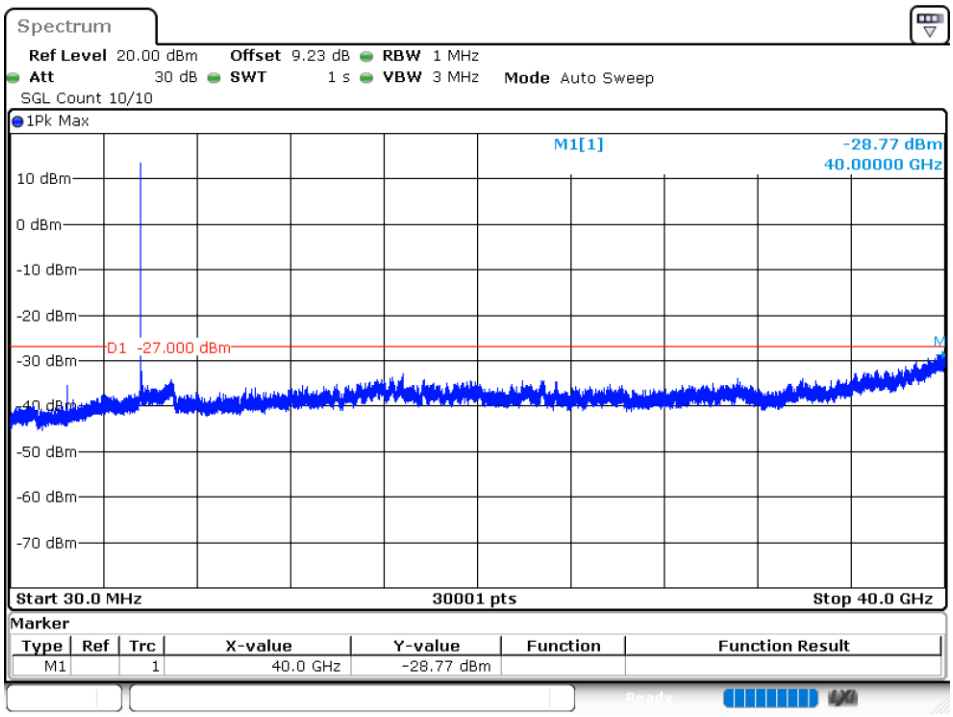
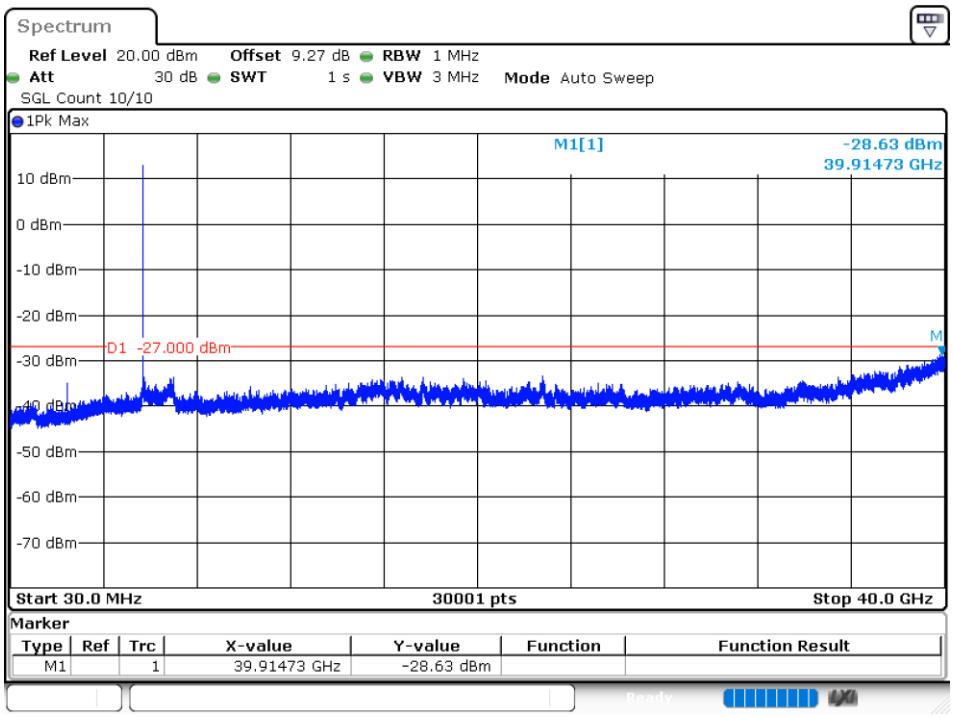
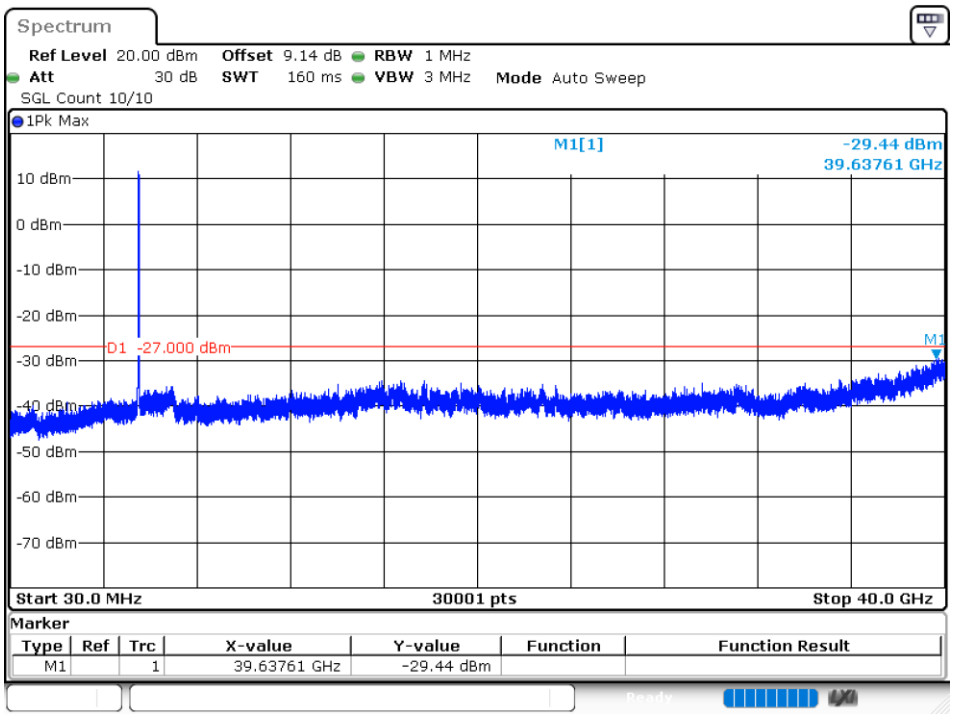
Tx. Spurious NVNT ac20 5600MHz Ant1 Emission



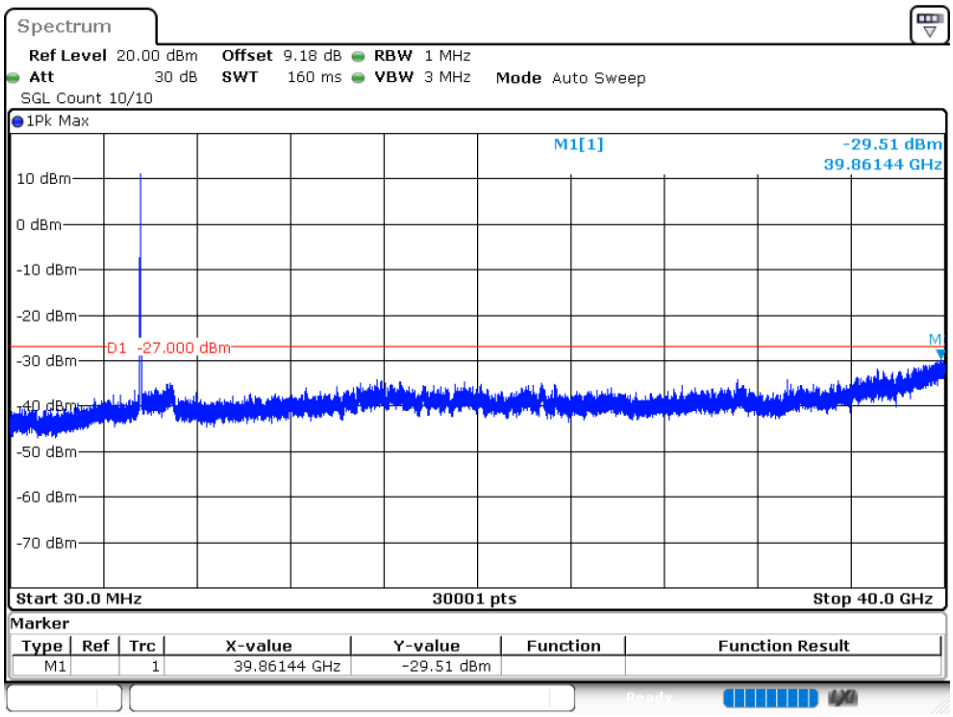

Tx. Spurious NVNT ac20 5700MHz Ant1 Emission



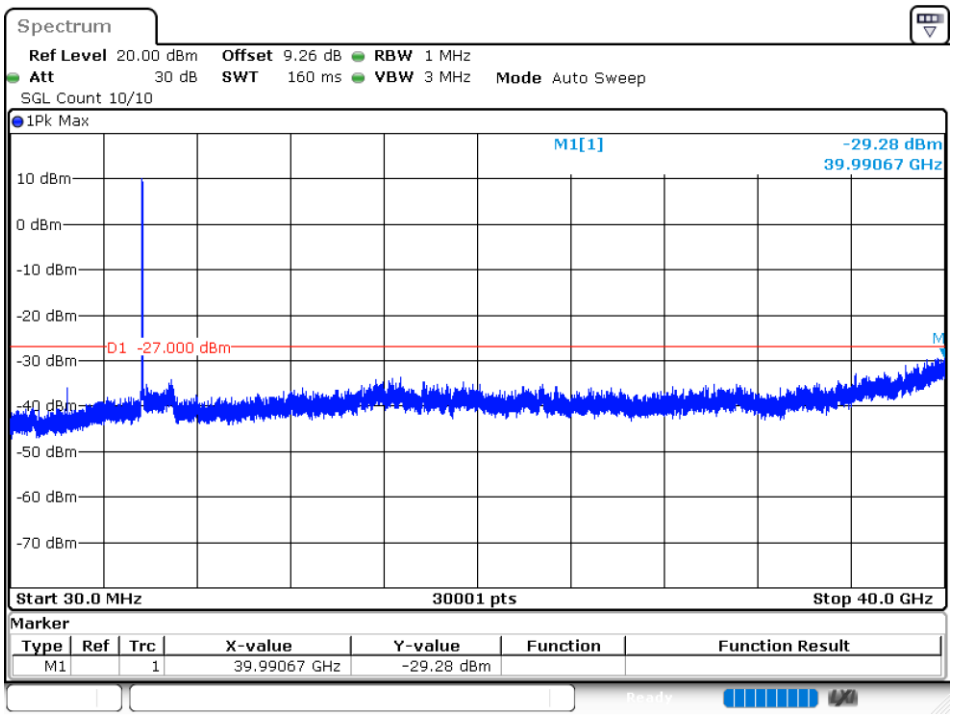
Tx. Spurious NVNT ac40 5510MHz Ant1 Emission



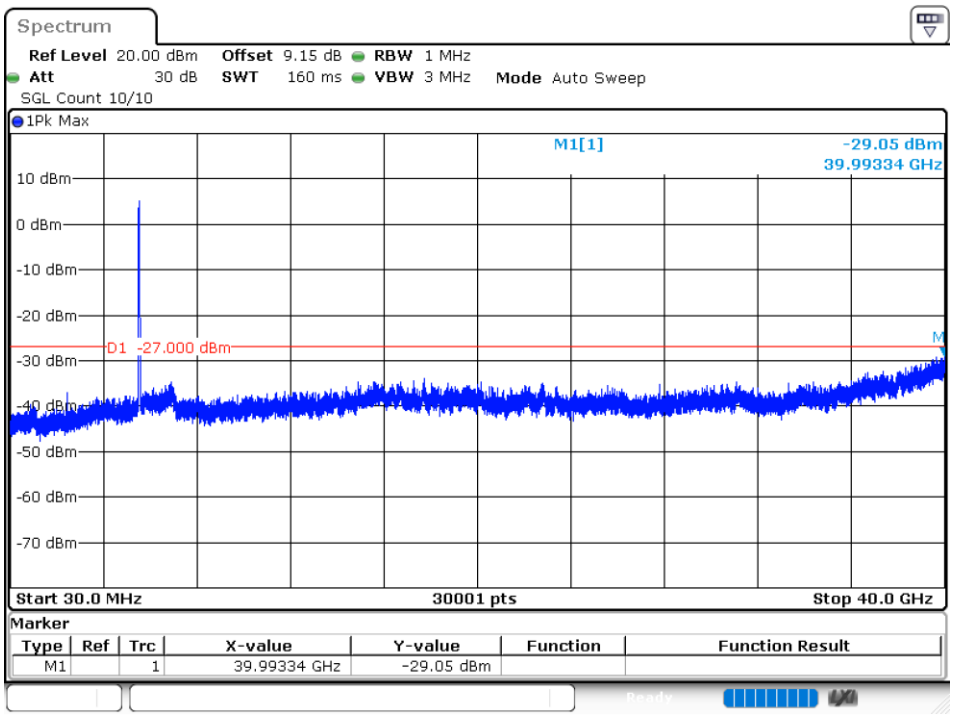

Tx. Spurious NVNT ac40 5590MHz Ant1 Emission



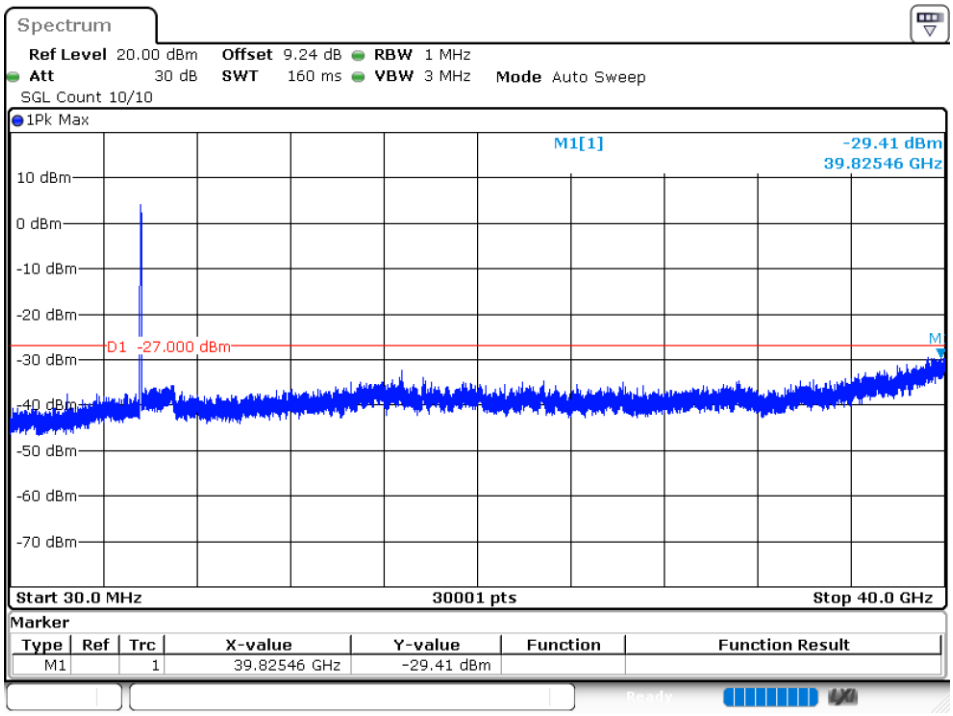
Tx. Spurious NVNT ac40 5670MHz Ant1 Emission




Tx. Spurious NVNT ac80 5530MHz Ant1 Emission



Tx. Spurious NVNT ac80 5610MHz Ant1 Emission



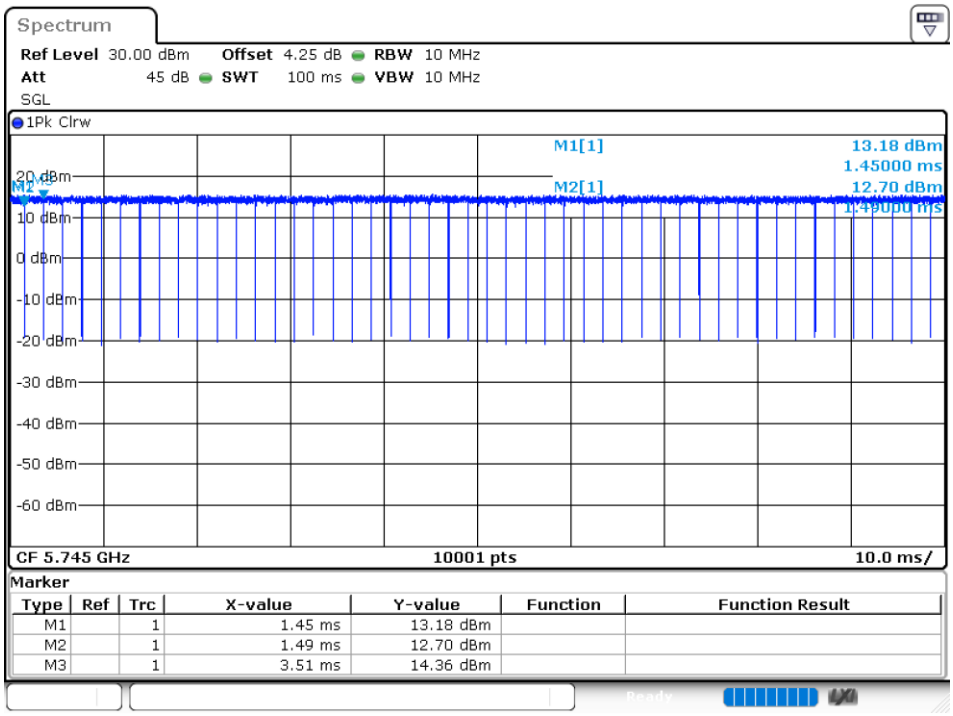
# WIFI 5.8G

## Duty Cycle

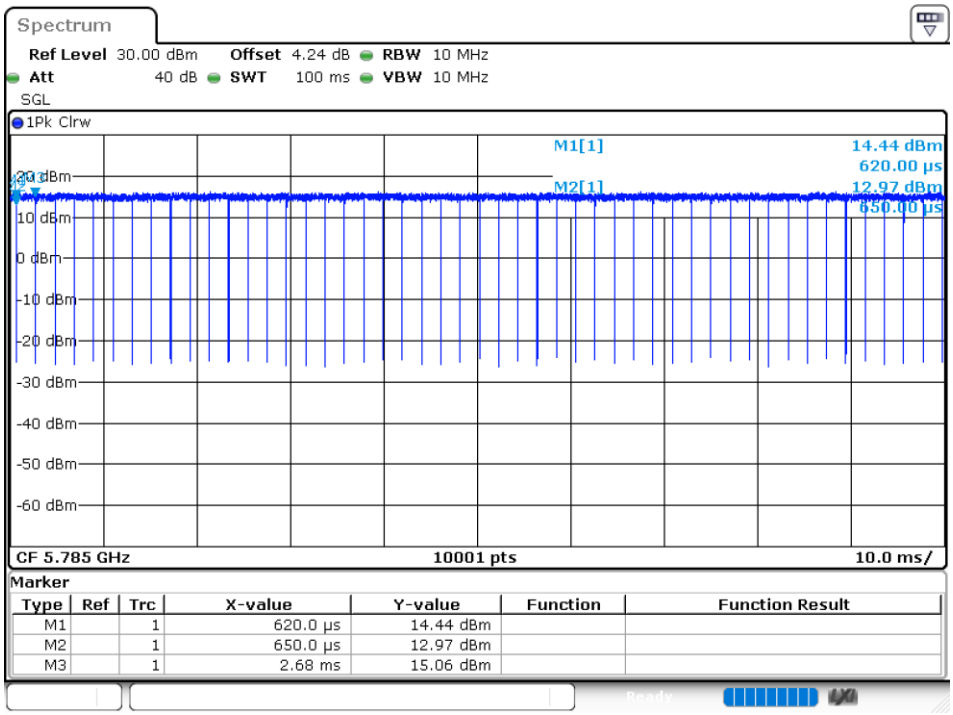
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 98.71 | 0.06 | 0.5 |
| NVNT | a | 5785 | Ant1 | 98.78 | 0.05 | 0.49 |
| NVNT | a | 5825 | Ant1 | 99.68 | 0.01 | 0.49 |
| NVNT | n20 | 5745 | Ant1 | 98.61 | 0.06 | 0.53 |
| NVNT | n20 | 5785 | Ant1 | 98.44 | 0.07 | 0.53 |
| NVNT | n20 | 5825 | Ant1 | 99.7 | 0.01 | 0.53 |
| NVNT | n40 | 5755 | Ant1 | 98.86 | 0.05 | 1.05 |
| NVNT | n40 | 5795 | Ant1 | 99.11 | 0.04 | 0.53 |
| NVNT | ac20 | 5745 | Ant1 | 98.65 | 0.06 | 0.53 |
| NVNT | ac20 | 5785 | Ant1 | 98.59 | 0.06 | 0.53 |
| NVNT | ac20 | 5825 | Ant1 | 98.59 | 0.06 | 0.53 |
| NVNT | ac40 | 5755 | Ant1 | 97.32 | 0.12 | 1.08 |
| NVNT | ac40 | 5795 | Ant1 | 97.33 | 0.12 | 1.06 |
| NVNT | ac80 | 5775 | Ant1 | 94.66 | 0.24 | 2.17 |

Test Graphs

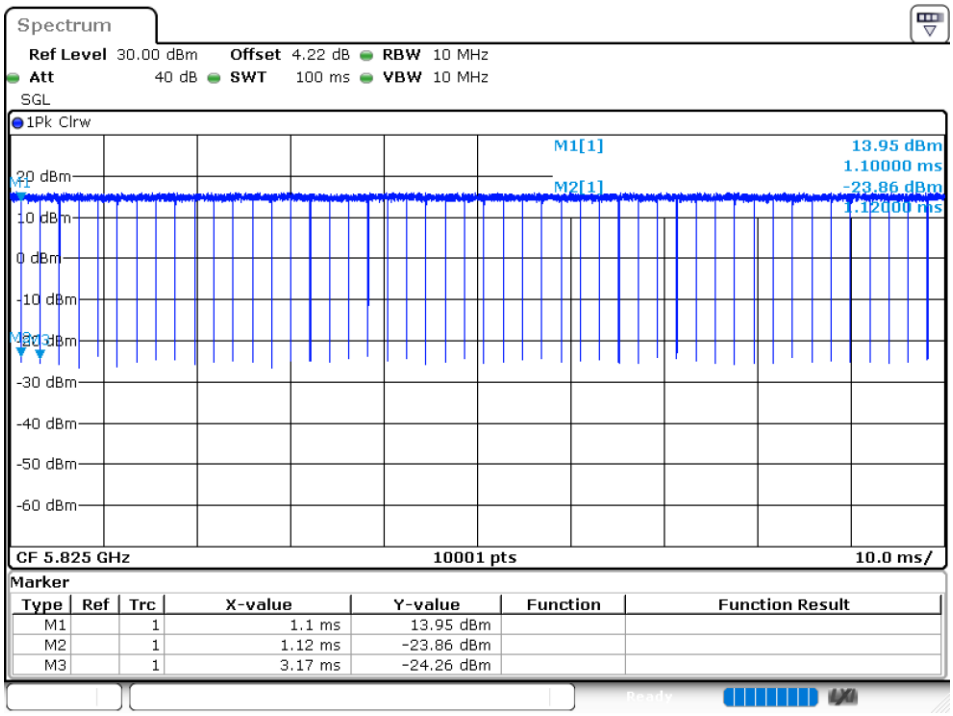
Duty Cycle NVNT a 5745MHz Ant1




Duty Cycle NVNT a 5785MHz Ant1



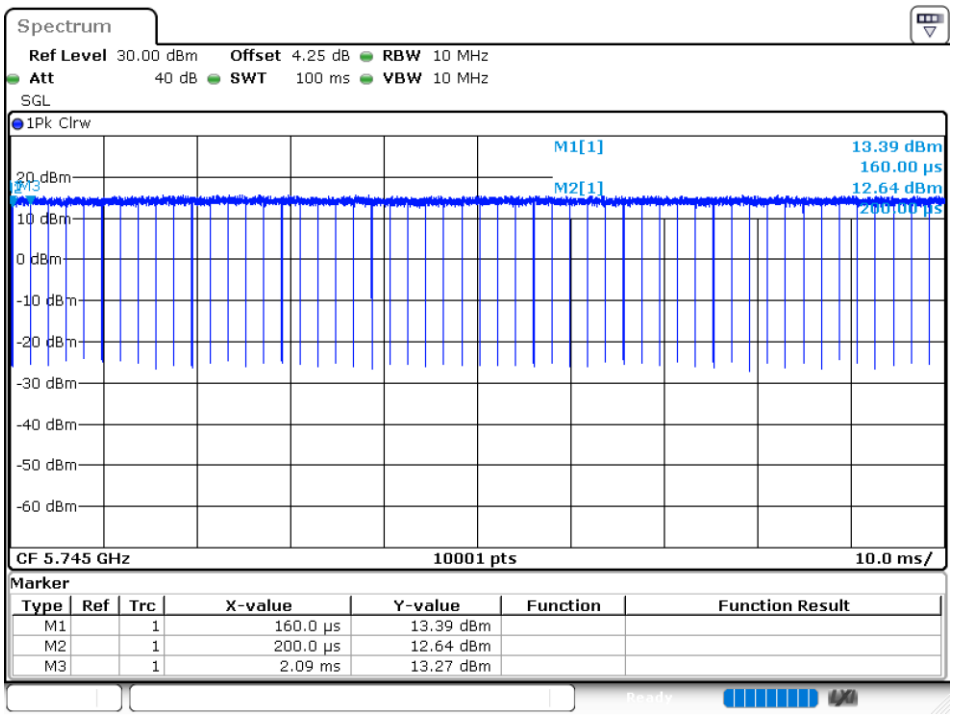
Duty Cycle NVNT a 5825MHz Ant1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 1.1 ms | 13.95 dBm | | |
| M2 | | 1 | 1.12 ms | -23.86 dBm | | |
| M3 | | 1 | 3.17 ms | -24.26 dBm | | |

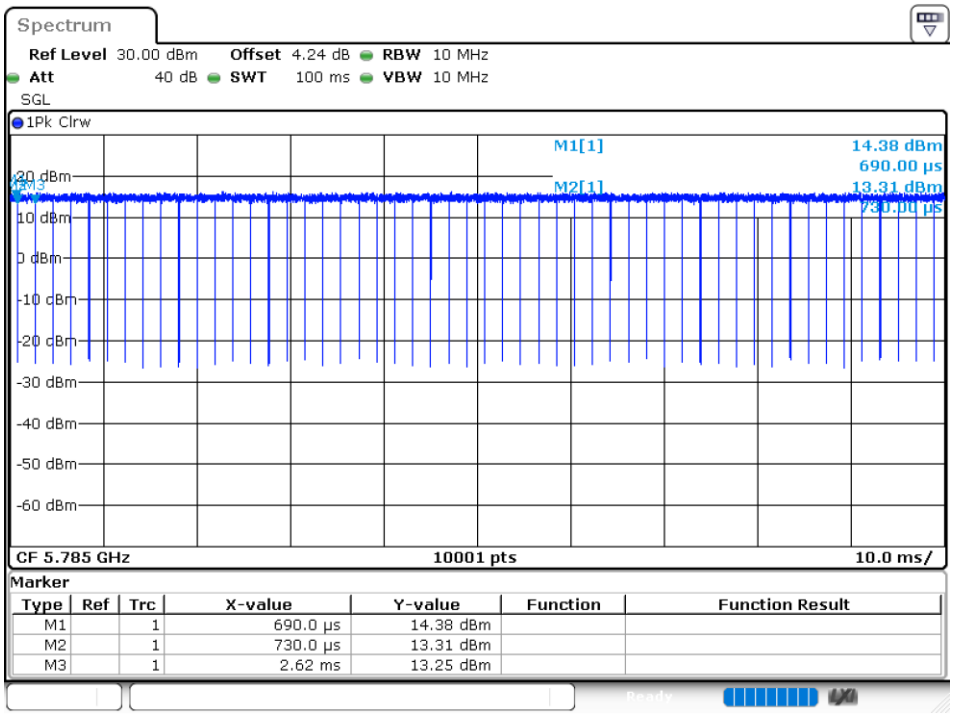
Duty Cycle NVNT n20 5745MHz Ant1



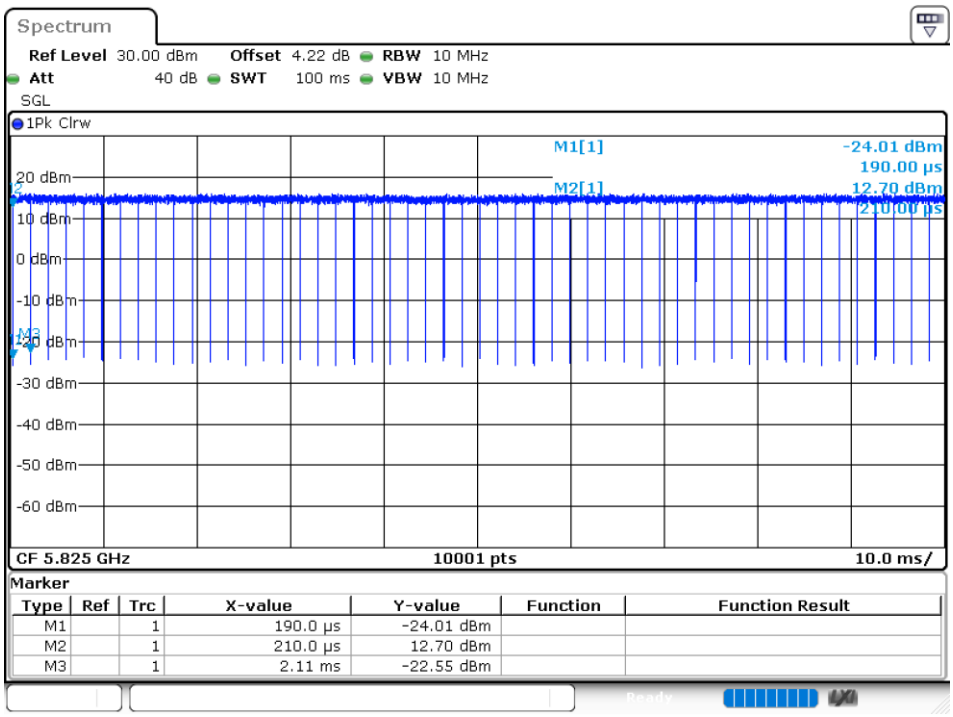

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 160.0 µs | 13.39 dBm | | |
| M2 | | 1 | 200.0 µs | 12.64 dBm | | |
| M3 | | 1 | 2.09 ms | 13.27 dBm | | |

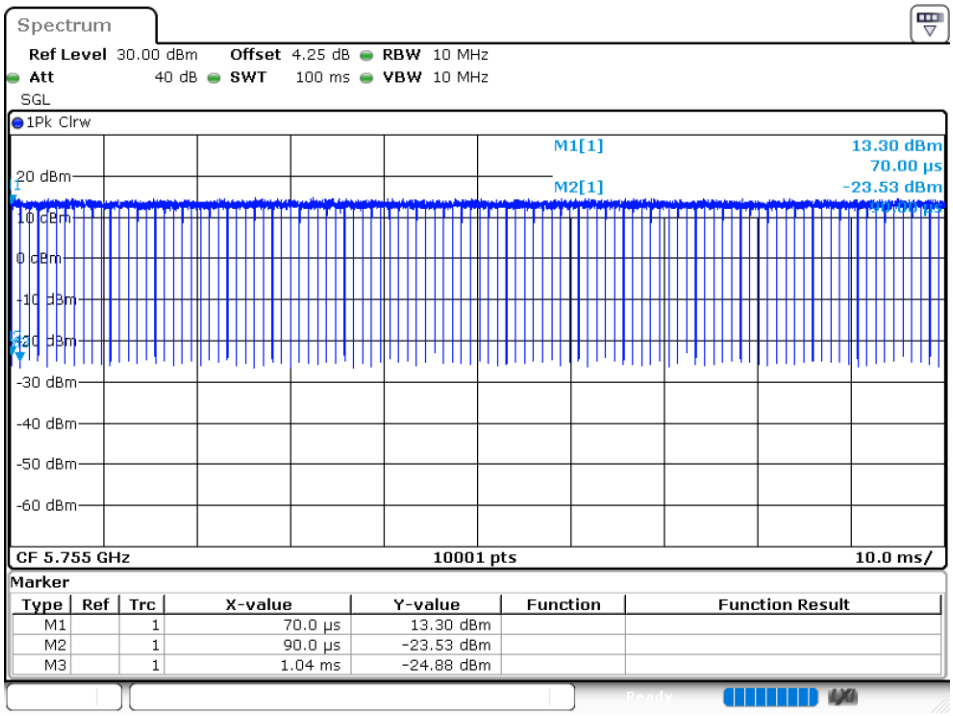
Duty Cycle NVNT n20 5785MHz Ant1



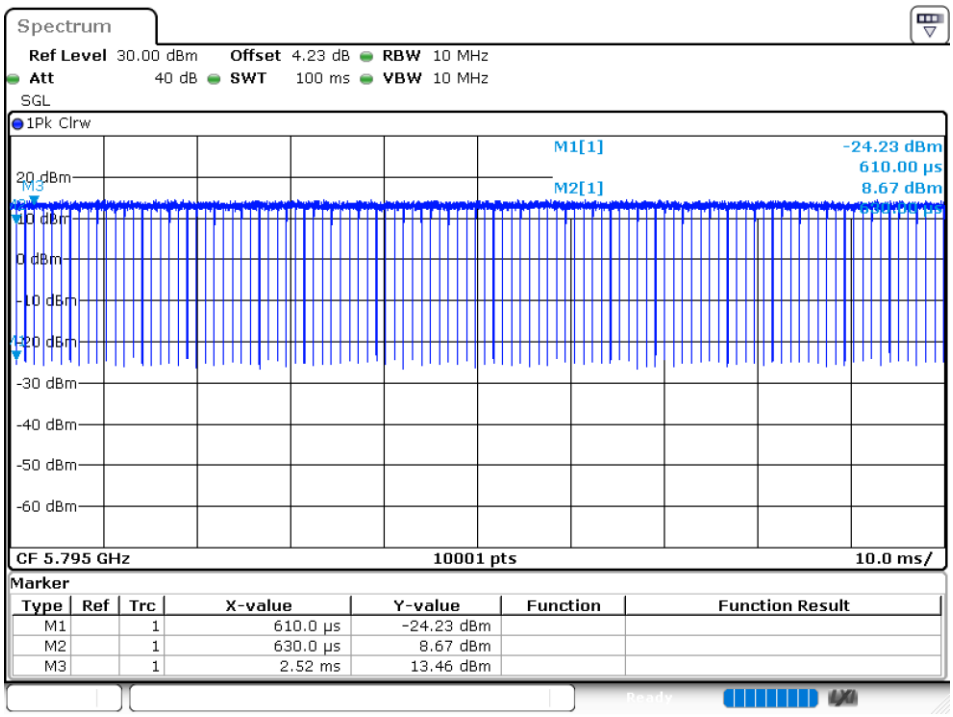

Duty Cycle NVNT n20 5825MHz Ant1



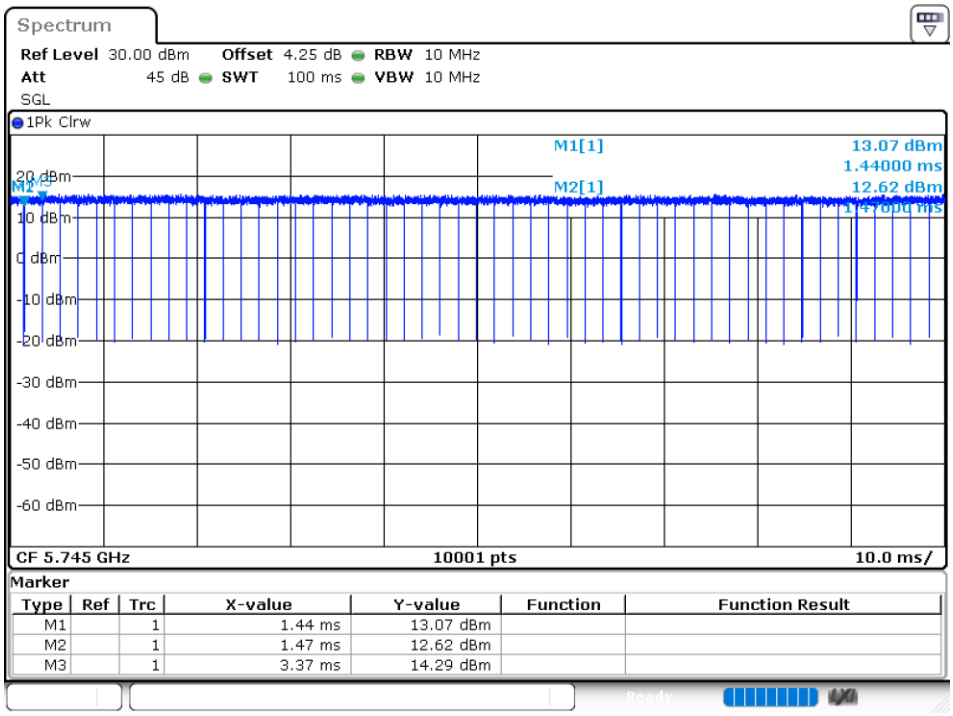
Duty Cycle NVNT n40 5755MHz Ant1



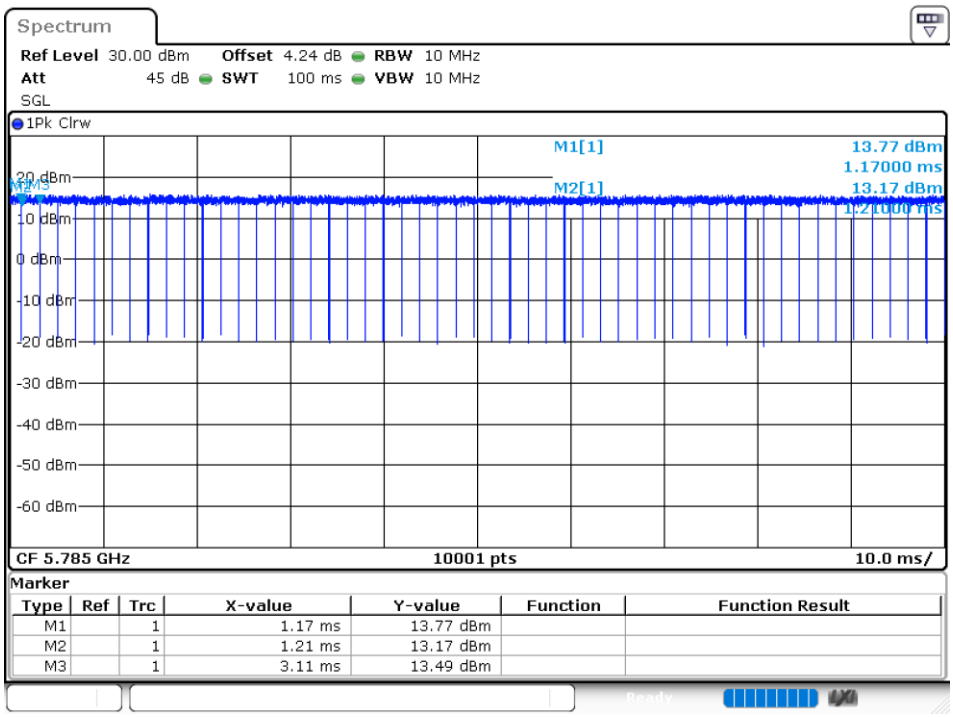

Duty Cycle NVNT n40 5795MHz Ant1



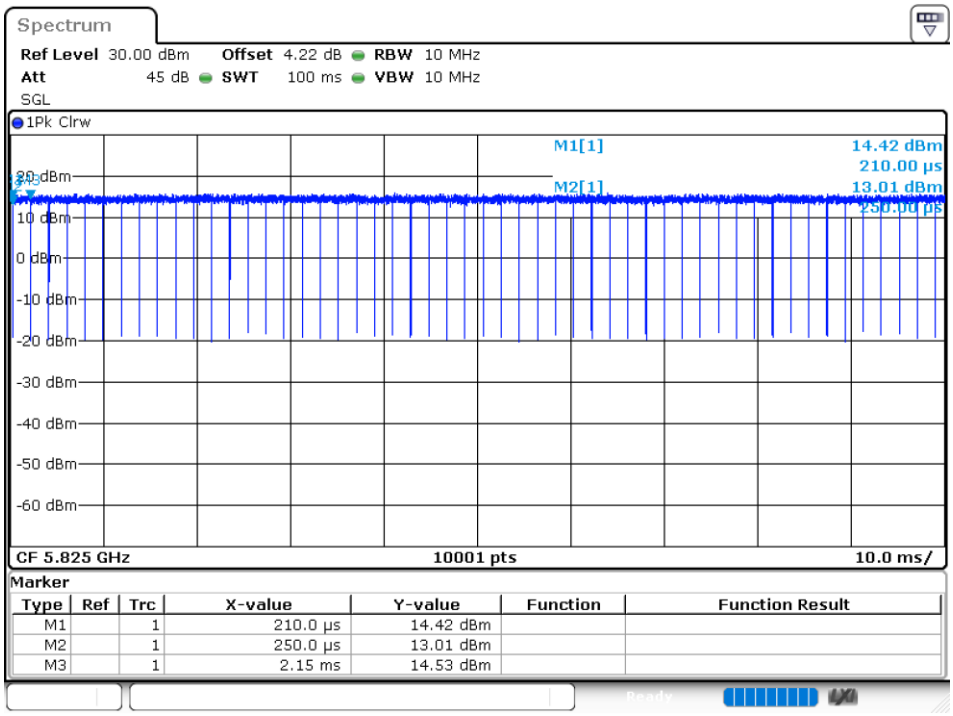
Duty Cycle NVNT ac20 5745MHz Ant1



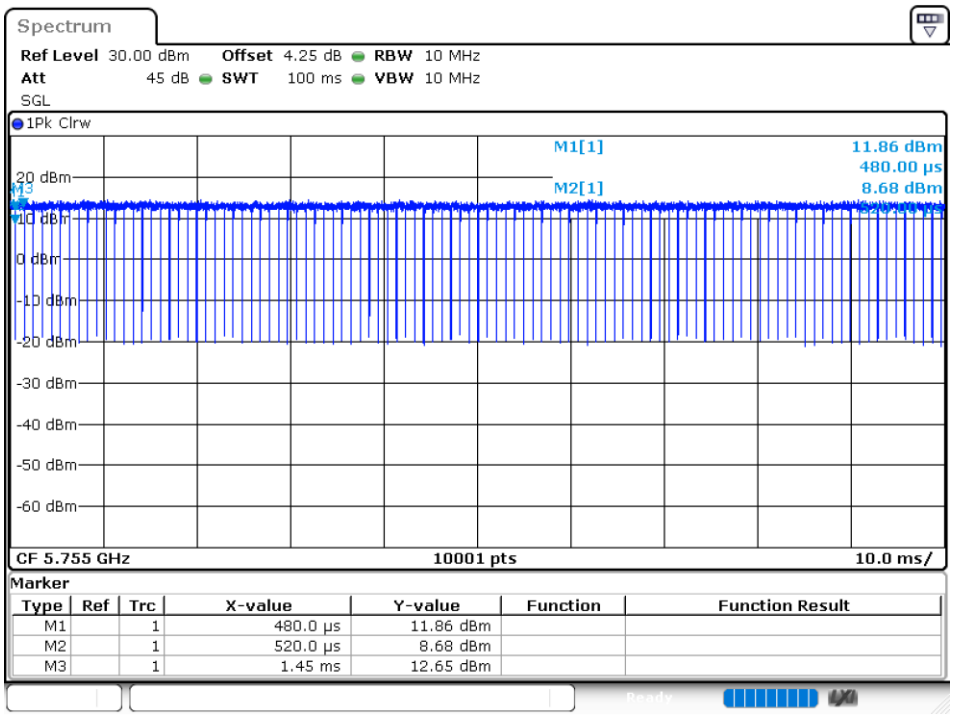

Duty Cycle NVNT ac20 5785MHz Ant1



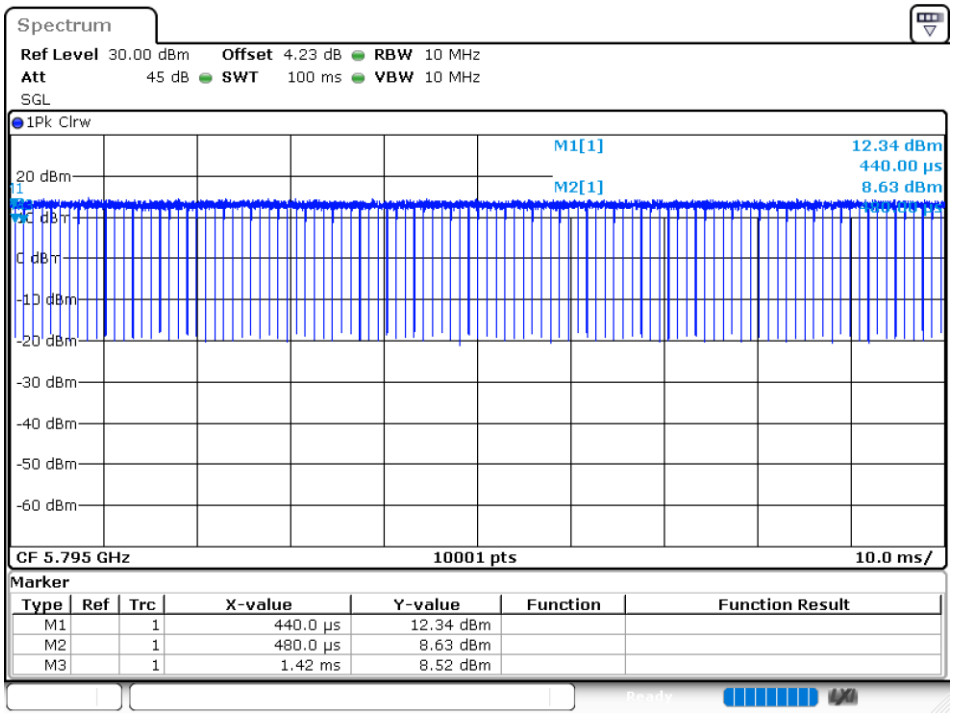
Duty Cycle NVNT ac20 5825MHz Ant1



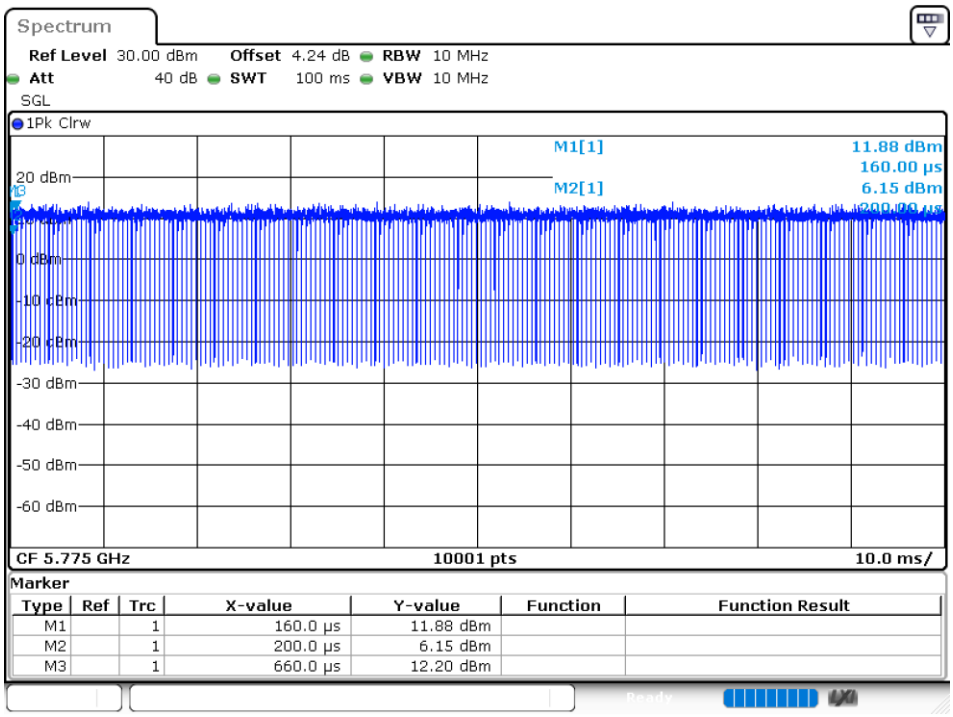

Duty Cycle NVNT ac40 5755MHz Ant1



Duty Cycle NVNT ac40 5795MHz Ant1




Duty Cycle NVNT ac80 5775MHz Ant1



# Maximum Conducted Output Power

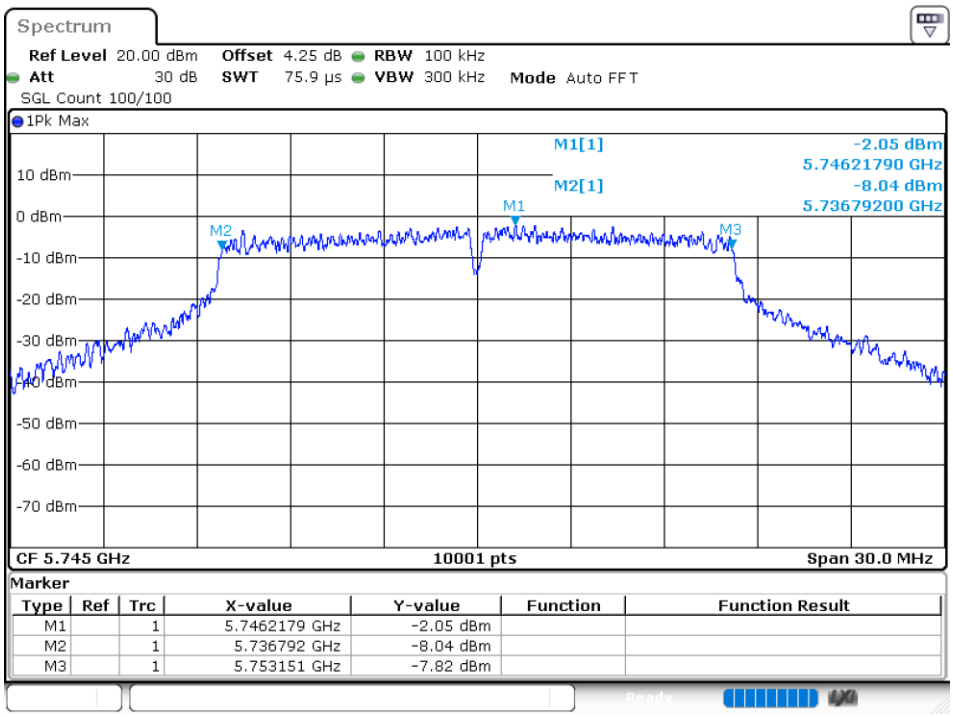
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 11.46 | 30 | Pass |
| NVNT | a | 5785 | Ant1 | 11.95 | 30 | Pass |
| NVNT | a | 5825 | Ant1 | 12.55 | 30 | Pass |
| NVNT | n20 | 5745 | Ant1 | 11.16 | 30 | Pass |
| NVNT | n20 | 5785 | Ant1 | 12.06 | 30 | Pass |
| NVNT | n20 | 5825 | Ant1 | 12.19 | 30 | Pass |
| NVNT | n40 | 5755 | Ant1 | 11.79 | 30 | Pass |
| NVNT | n40 | 5795 | Ant1 | 12.6 | 30 | Pass |
| NVNT | ac20 | 5745 | Ant1 | 11.43 | 30 | Pass |
| NVNT | ac20 | 5785 | Ant1 | 11.58 | 30 | Pass |
| NVNT | ac20 | 5825 | Ant1 | 12.19 | 30 | Pass |
| NVNT | ac40 | 5755 | Ant1 | 11.98 | 30 | Pass |
| NVNT | ac40 | 5795 | Ant1 | 12.71 | 30 | Pass |
| NVNT | ac80 | 5775 | Ant1 | 12.05 | 30 | Pass |

# -6dB Bandwidth

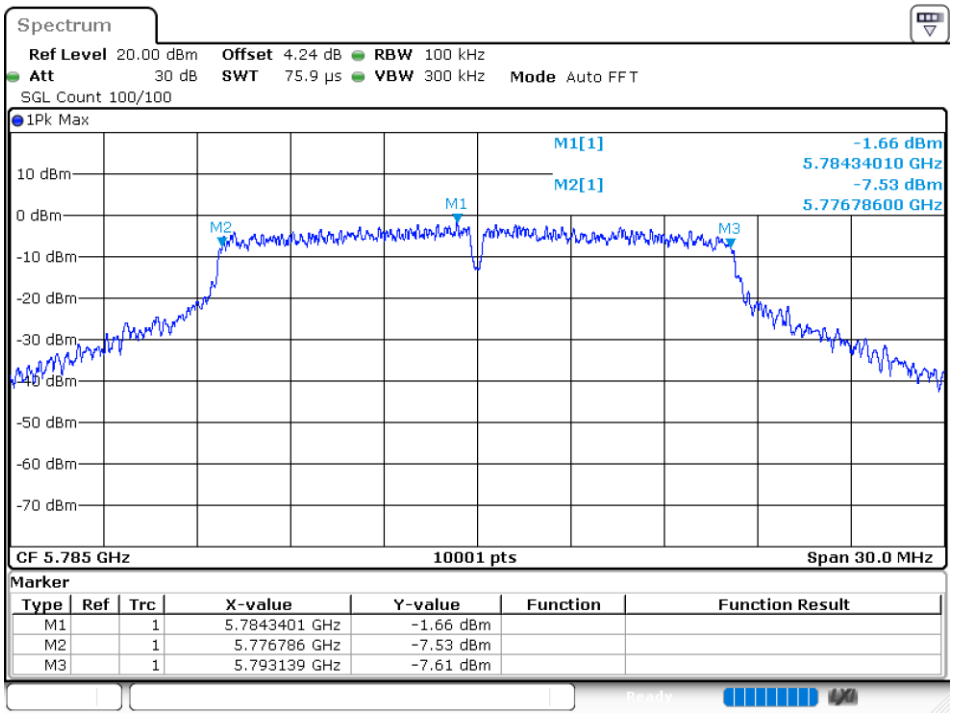
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 16.359 | 0.5 | Pass |
| NVNT | a | 5785 | Ant1 | 16.353 | 0.5 | Pass |
| NVNT | a | 5825 | Ant1 | 16.377 | 0.5 | Pass |
| NVNT | n20 | 5745 | Ant1 | 17.631 | 0.5 | Pass |
| NVNT | n20 | 5785 | Ant1 | 17.55 | 0.5 | Pass |
| NVNT | n20 | 5825 | Ant1 | 17.541 | 0.5 | Pass |
| NVNT | n40 | 5755 | Ant1 | 32.628 | 0.5 | Pass |
| NVNT | n40 | 5795 | Ant1 | 36.318 | 0.5 | Pass |
| NVNT | ac20 | 5745 | Ant1 | 17.169 | 0.5 | Pass |
| NVNT | ac20 | 5785 | Ant1 | 17.316 | 0.5 | Pass |
| NVNT | ac20 | 5825 | Ant1 | 17.589 | 0.5 | Pass |
| NVNT | ac40 | 5755 | Ant1 | 33.774 | 0.5 | Pass |
| NVNT | ac40 | 5795 | Ant1 | 35.292 | 0.5 | Pass |
| NVNT | ac80 | 5775 | Ant1 | 73.812 | 0.5 | Pass |

Test Graphs

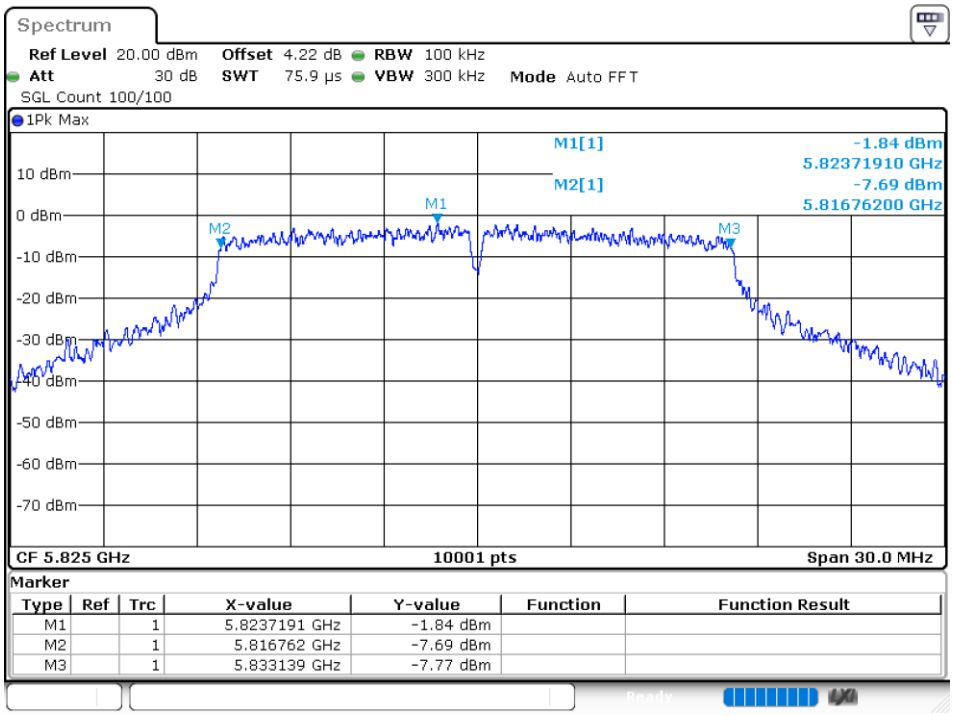
-6dB Bandwidth NVNT a 5745MHz Ant1



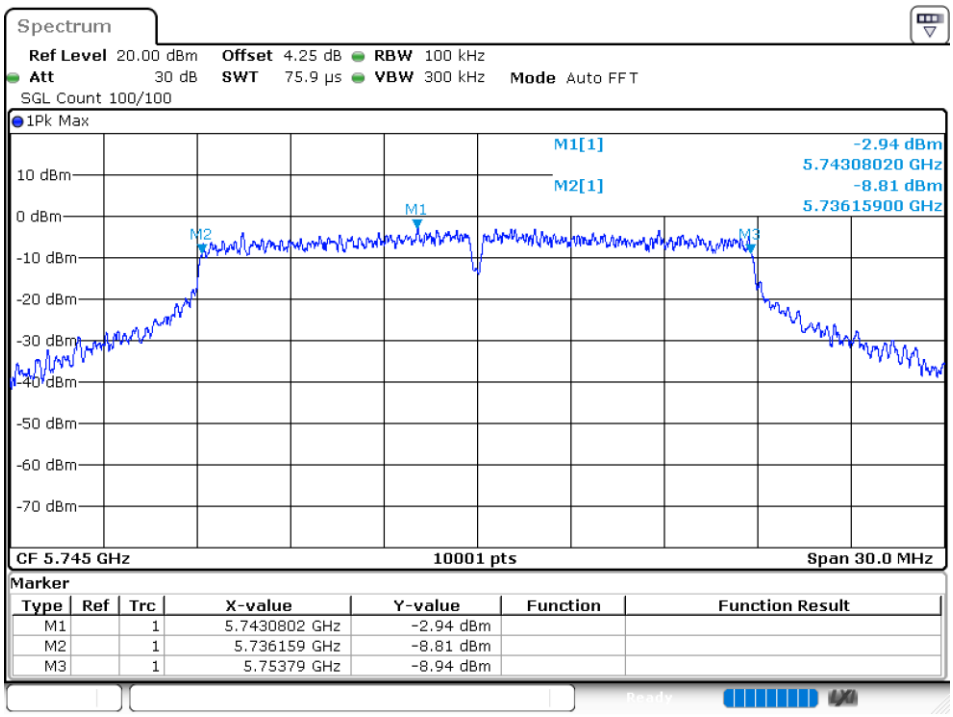

-6dB Bandwidth NVNT a 5785MHz Ant1



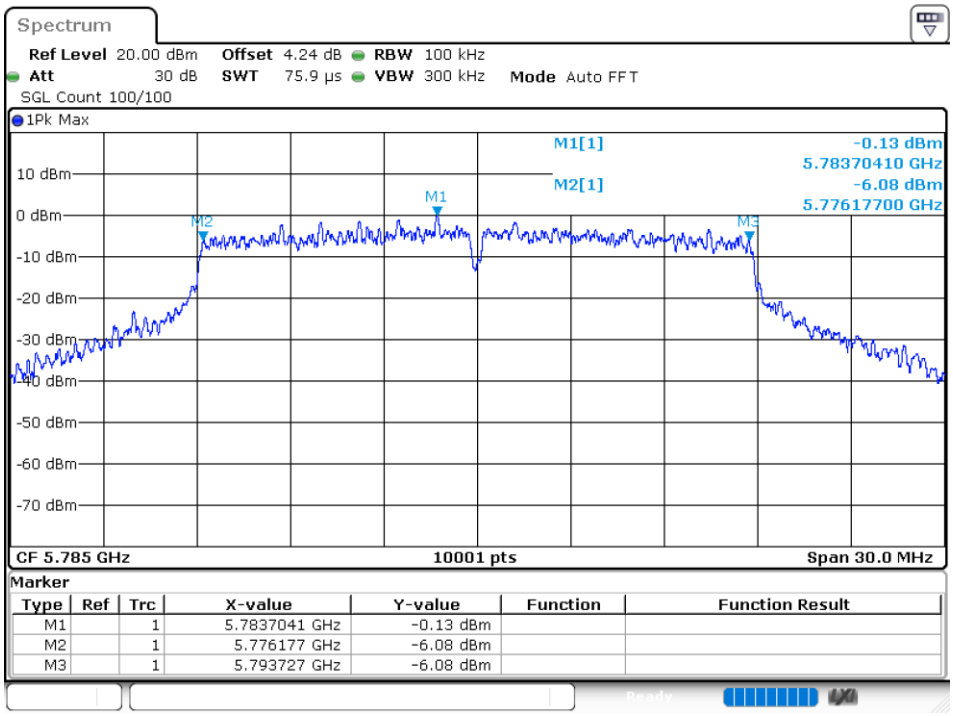
-6dB Bandwidth NVNT a 5825MHz Ant1



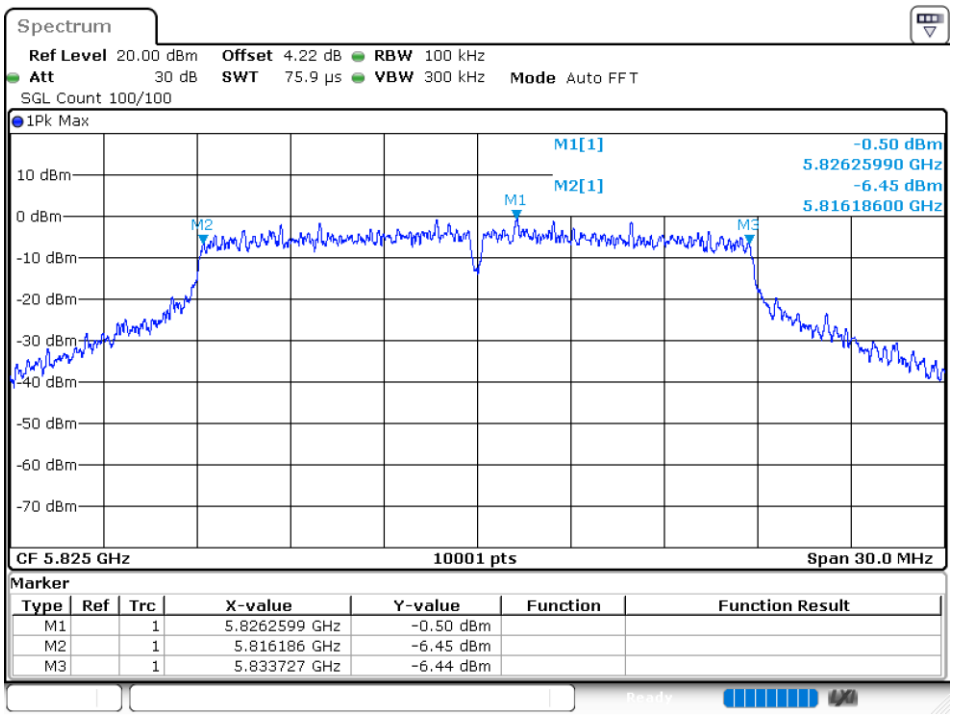

-6dB Bandwidth NVNT n20 5745MHz Ant1



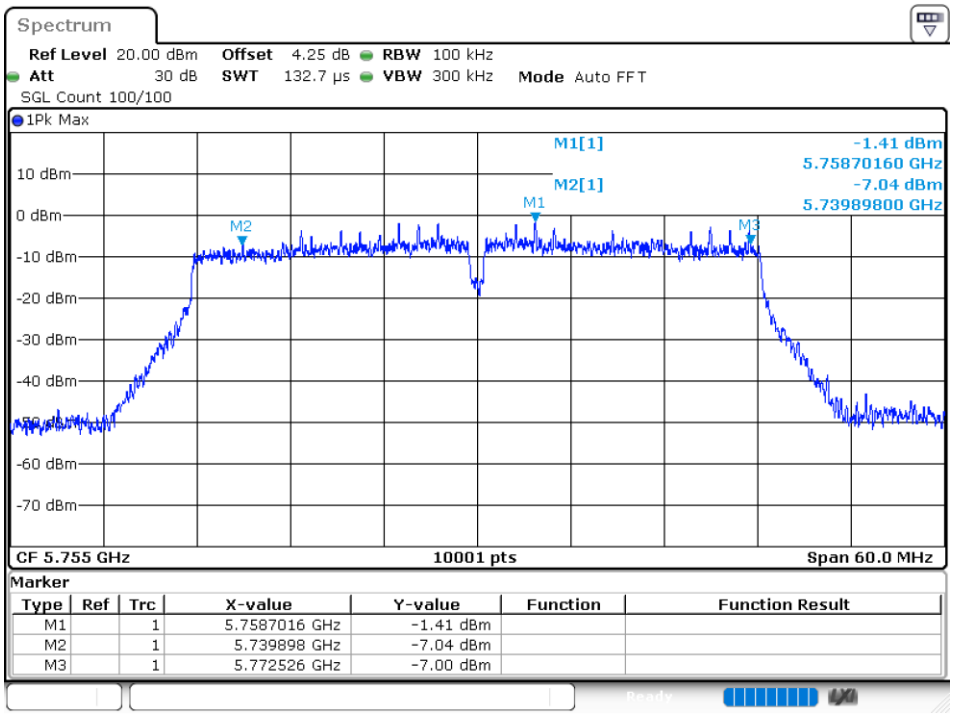
-6dB Bandwidth NVNT n20 5785MHz Ant1



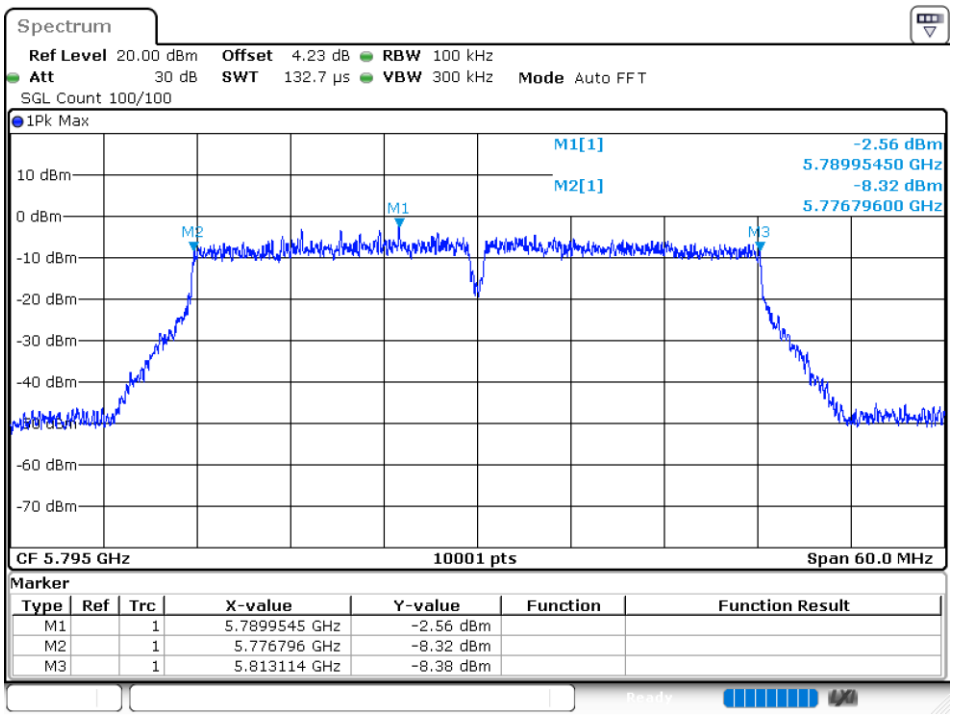

-6dB Bandwidth NVNT n20 5825MHz Ant1



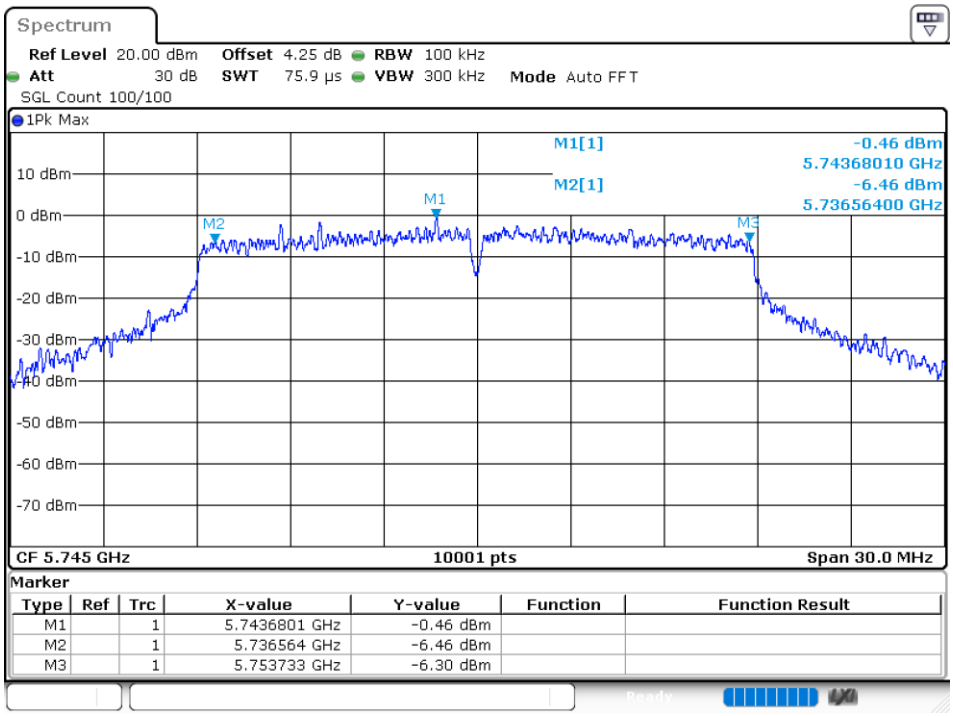
-6dB Bandwidth NVNT n40 5755MHz Ant1



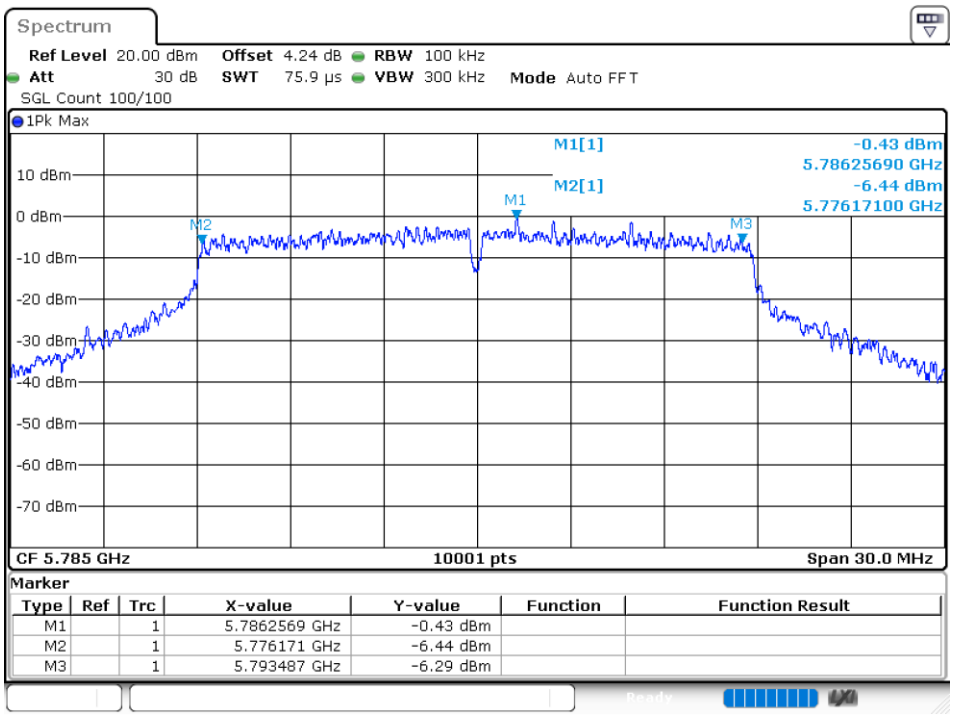

-6dB Bandwidth NVNT n40 5795MHz Ant1



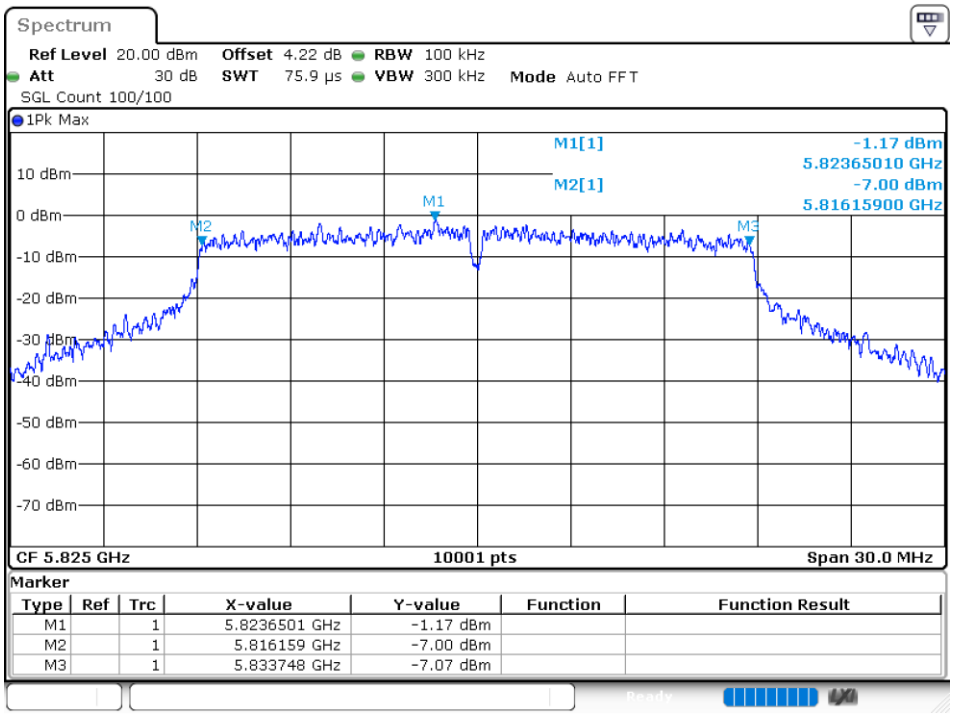
-6dB Bandwidth NVNT ac20 5745MHz Ant1



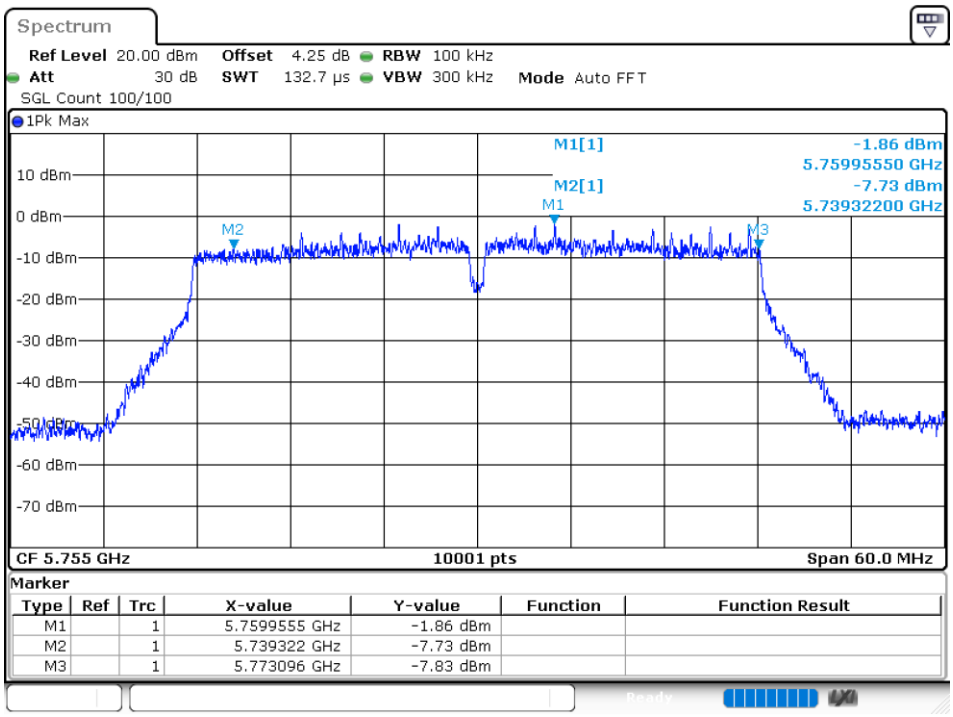

-6dB Bandwidth NVNT ac20 5785MHz Ant1



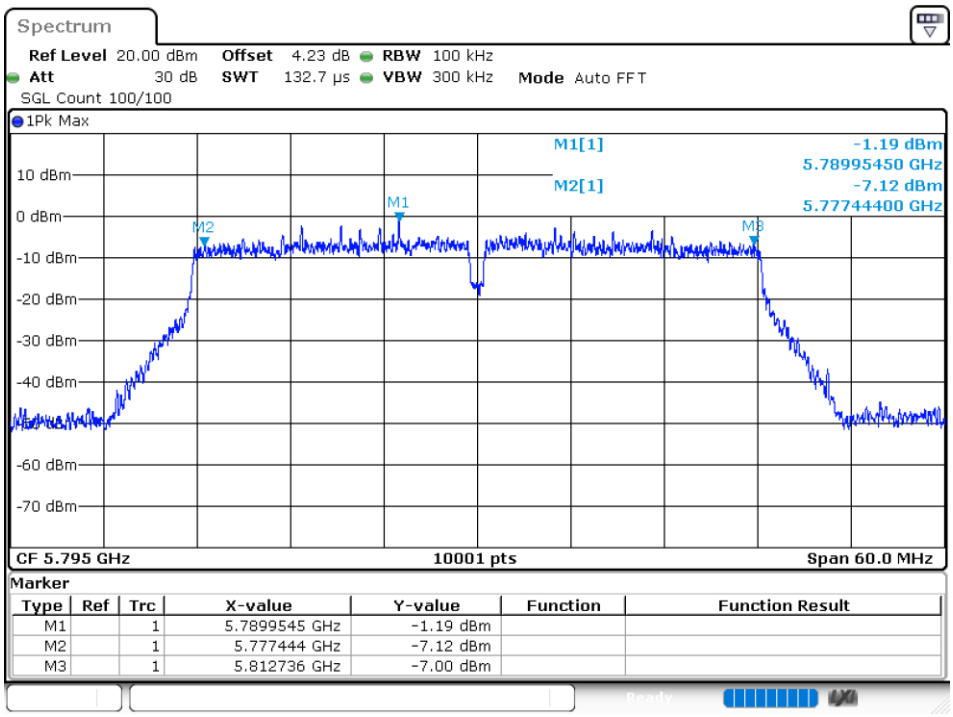
-6dB Bandwidth NVNT ac20 5825MHz Ant1



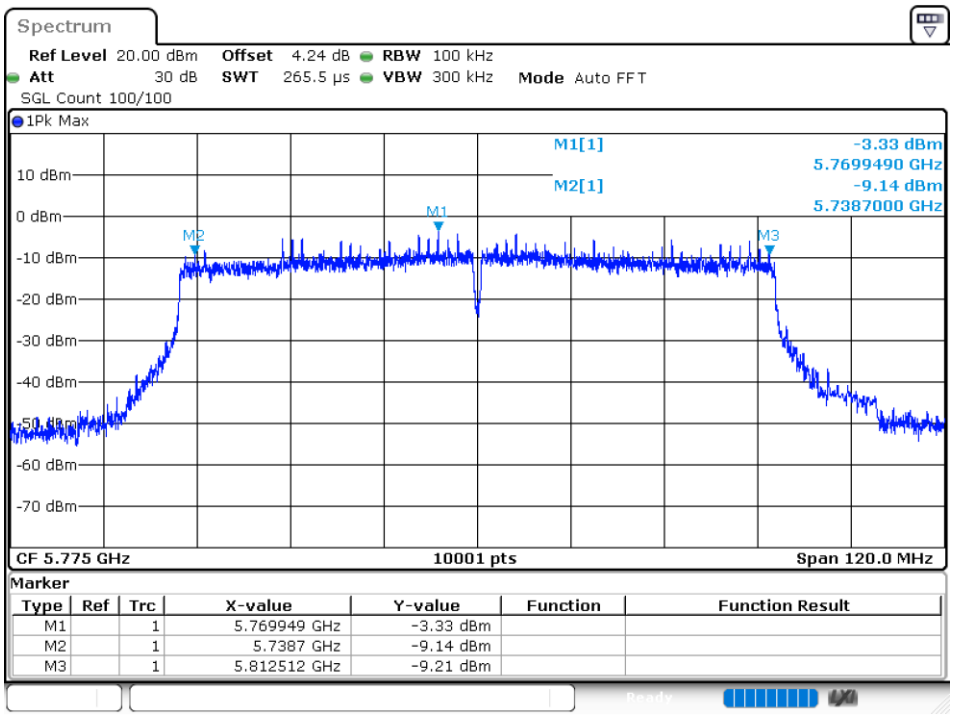

-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1




-6dB Bandwidth NVNT ac80 5775MHz Ant1

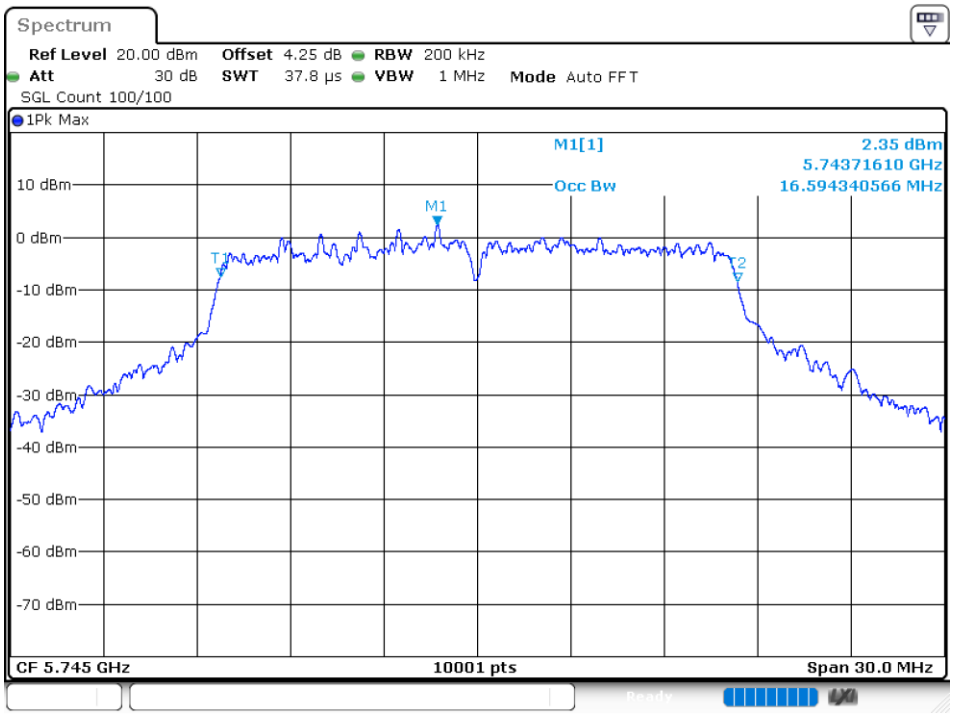


# Occupied Channel Bandwidth

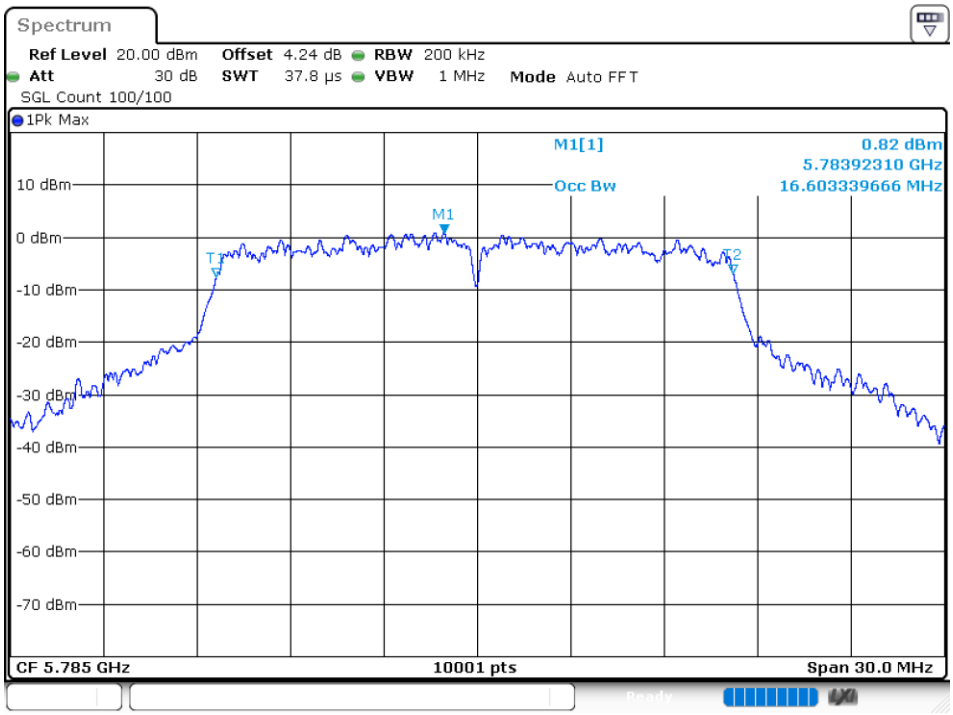
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | 16.594 |
| NVNT | a | 5785 | Ant1 | 16.603 |
| NVNT | a | 5825 | Ant1 | 16.63 |
| NVNT | n20 | 5745 | Ant1 | 17.665 |
| NVNT | n20 | 5785 | Ant1 | 17.677 |
| NVNT | n20 | 5825 | Ant1 | 17.731 |
| NVNT | n40 | 5755 | Ant1 | 36.188 |
| NVNT | n40 | 5795 | Ant1 | 36.29 |
| NVNT | ac20 | 5745 | Ant1 | 17.8 |
| NVNT | ac20 | 5785 | Ant1 | 17.737 |
| NVNT | ac20 | 5825 | Ant1 | 17.797 |
| NVNT | ac40 | 5755 | Ant1 | 36.218 |
| NVNT | ac40 | 5795 | Ant1 | 36.284 |
| NVNT | ac80 | 5775 | Ant1 | 75.544 |

Test Graphs

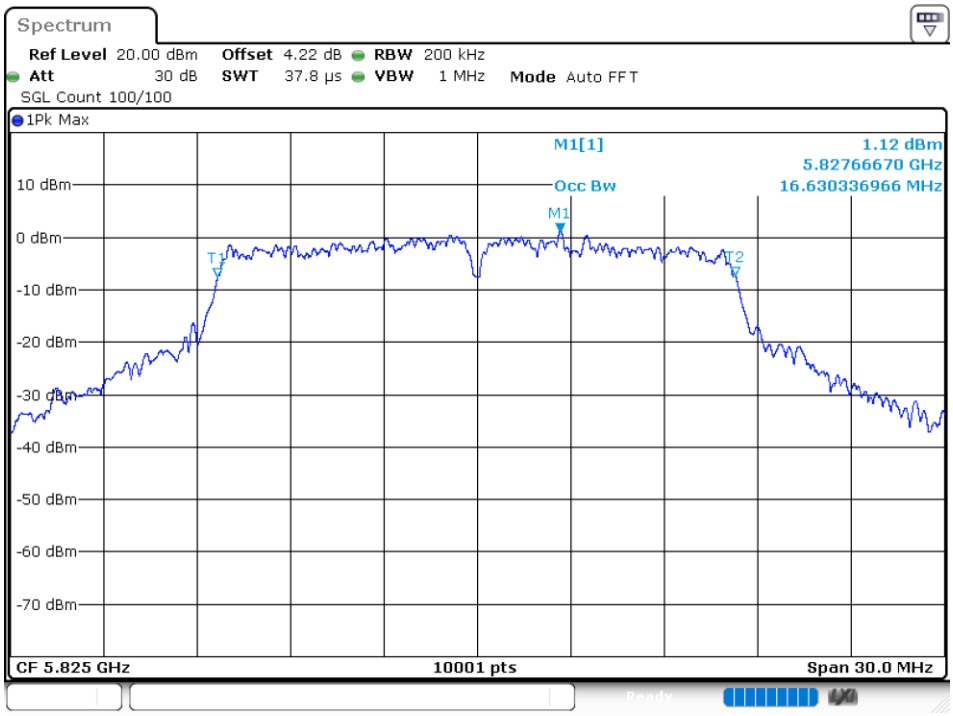
OBW NVNT a 5745MHz Ant1



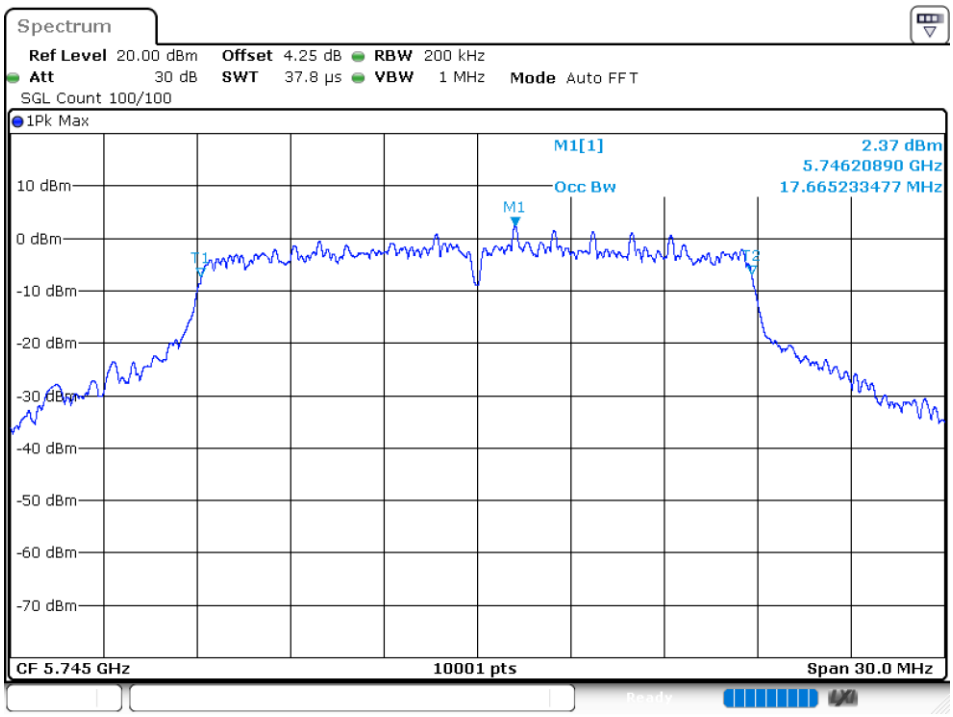

OBW NVNT a 5785MHz Ant1



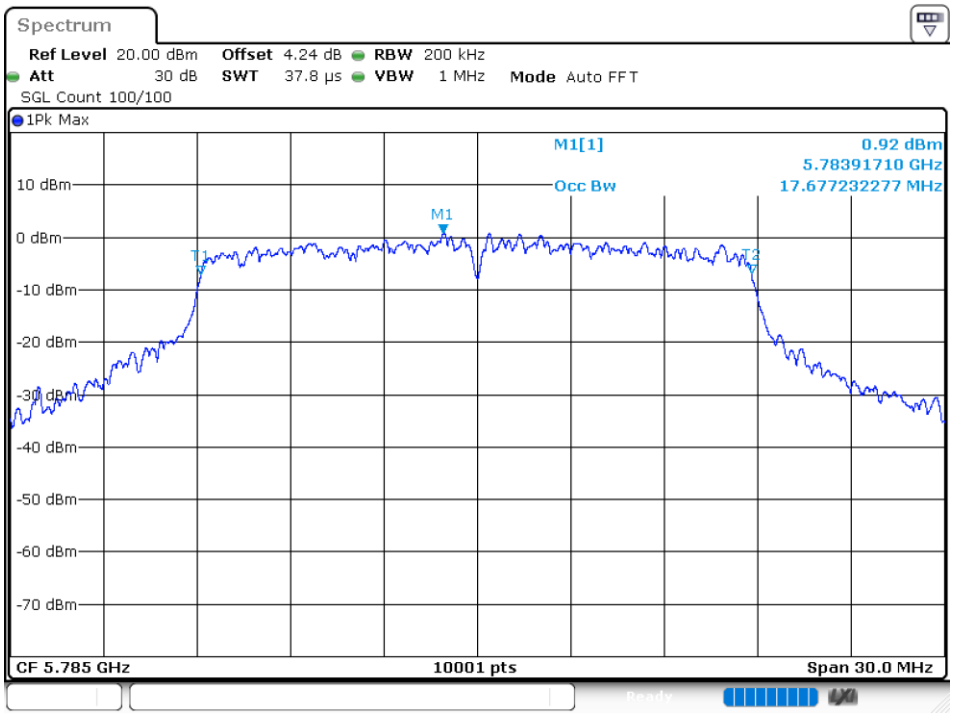
OBW NVNT a 5825MHz Ant1



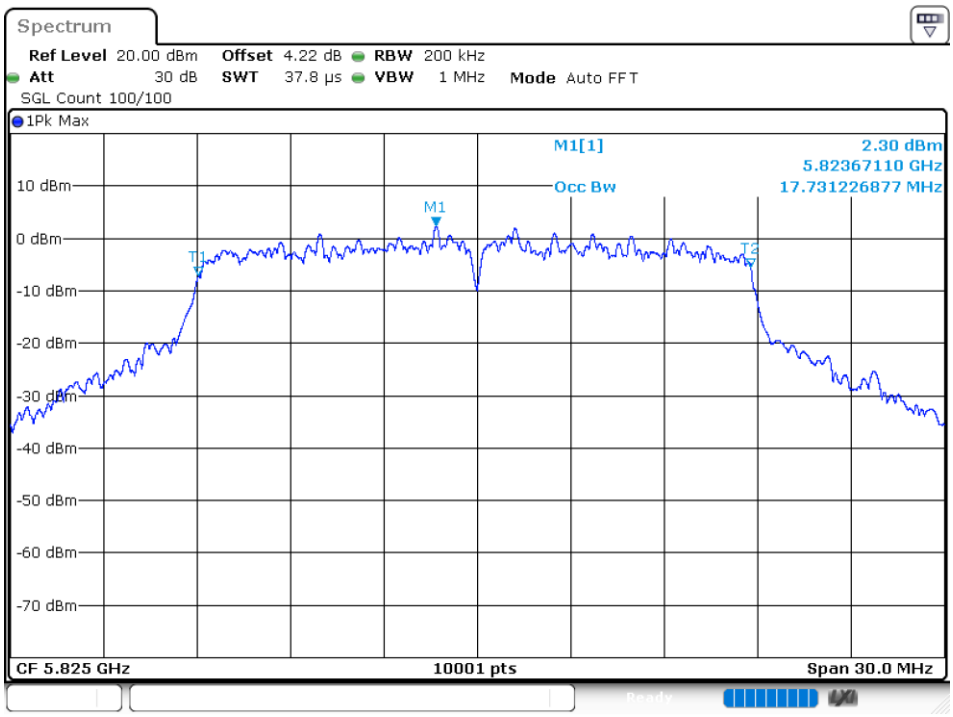

OBW NVNT n20 5745MHz Ant1



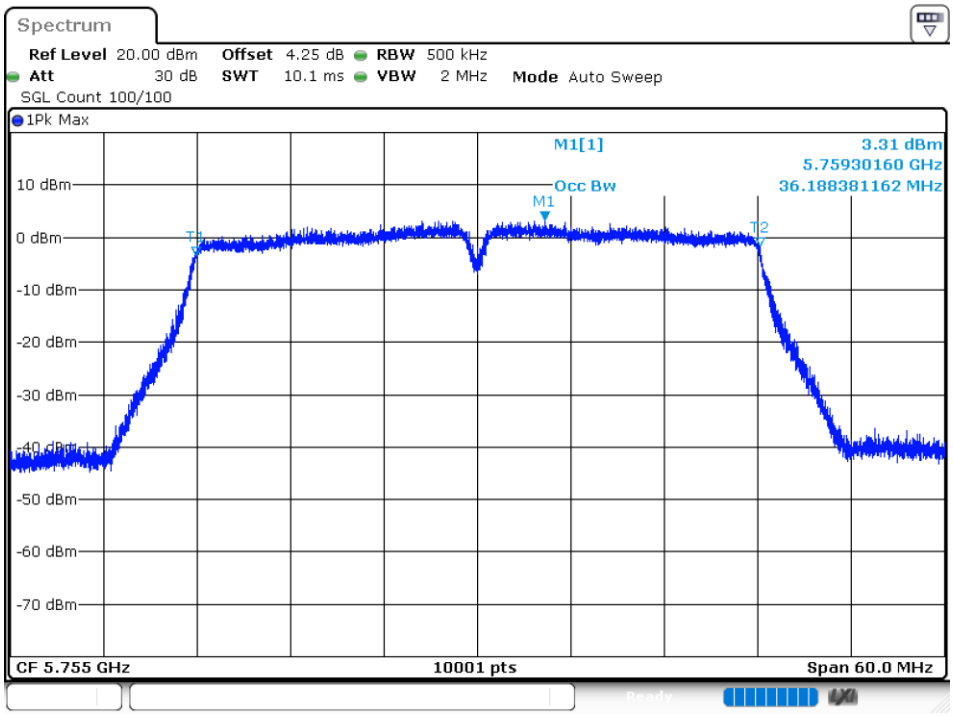
OBW NVNT n20 5785MHz Ant1



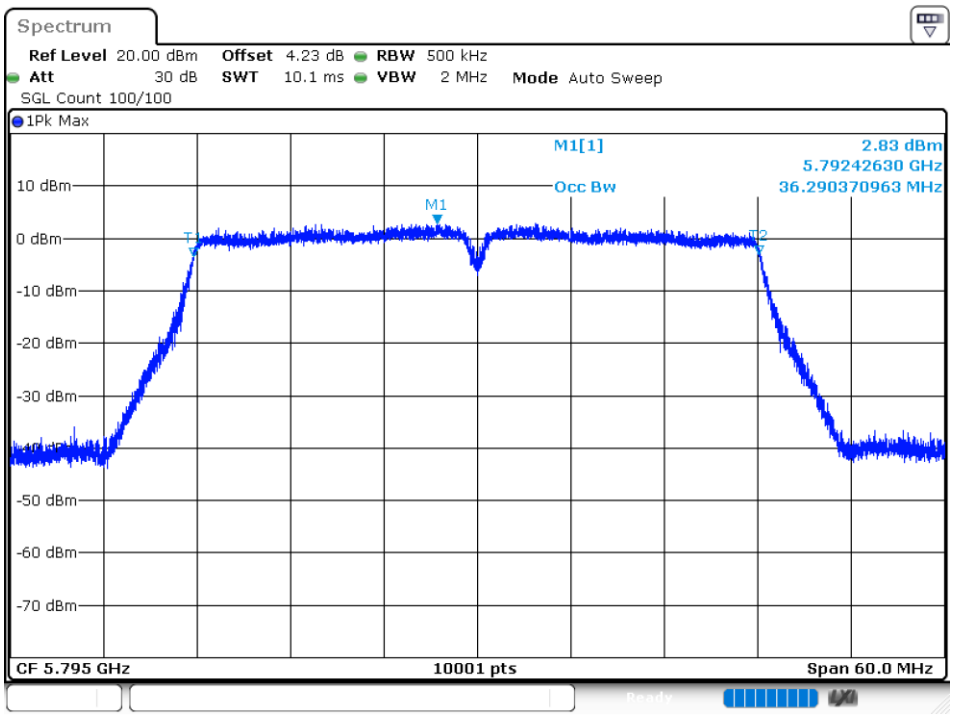

OBW NVNT n20 5825MHz Ant1



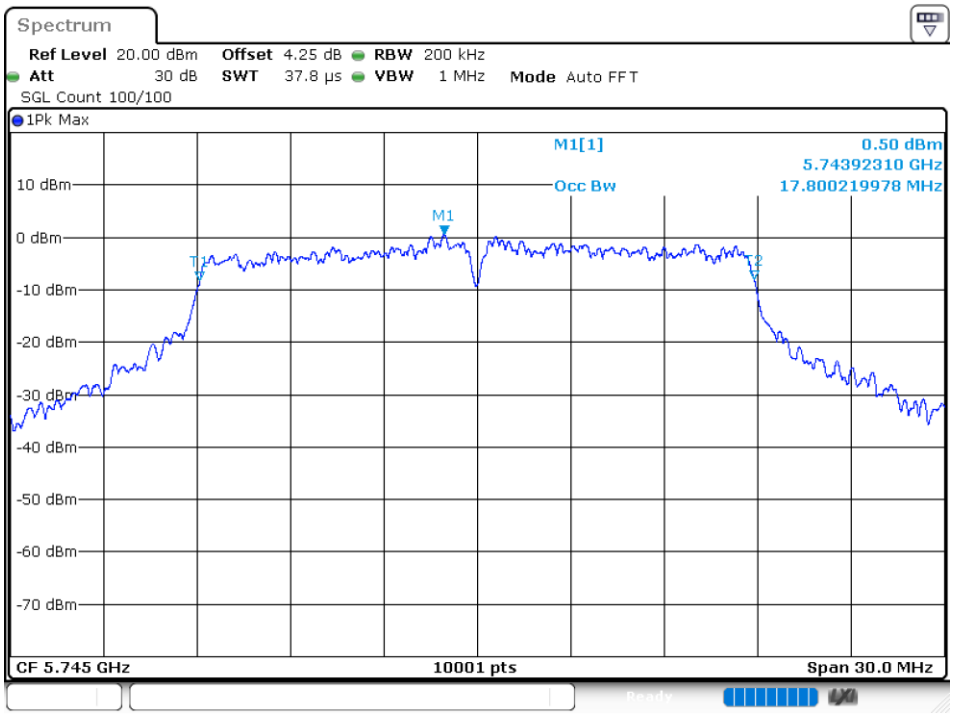
OBW NVNT n40 5755MHz Ant1



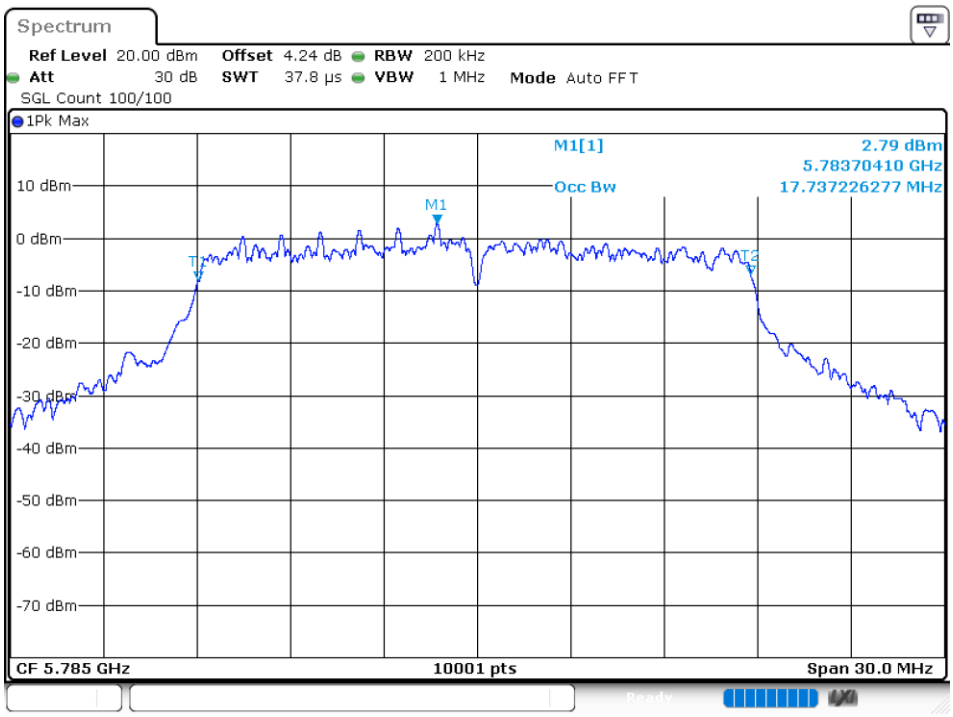

OBW NVNT n40 5795MHz Ant1



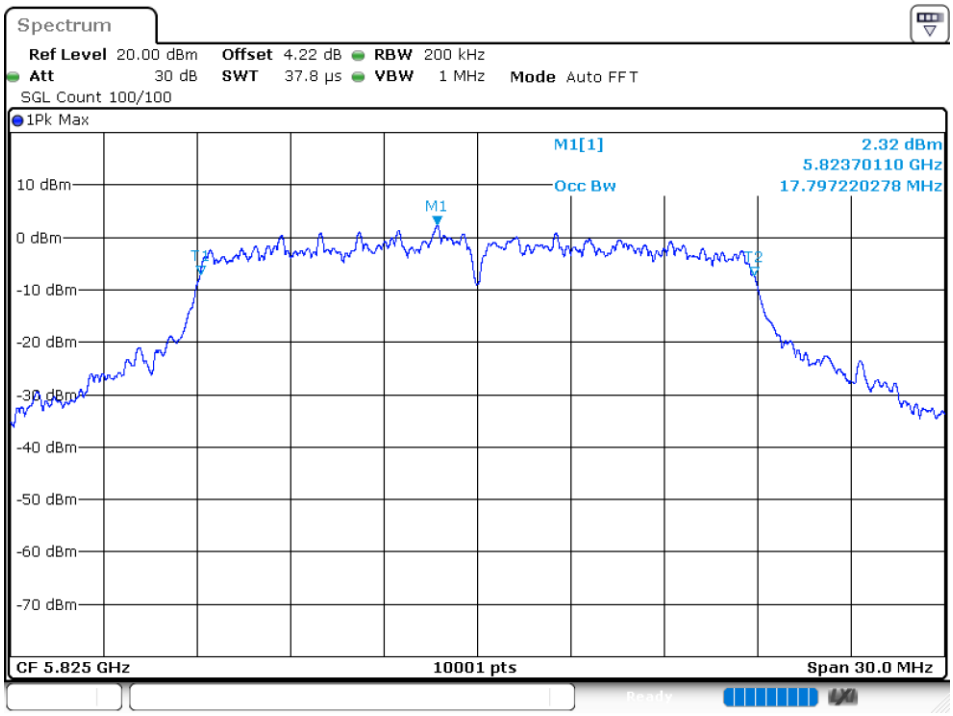
OBW NVNT ac20 5745MHz Ant1



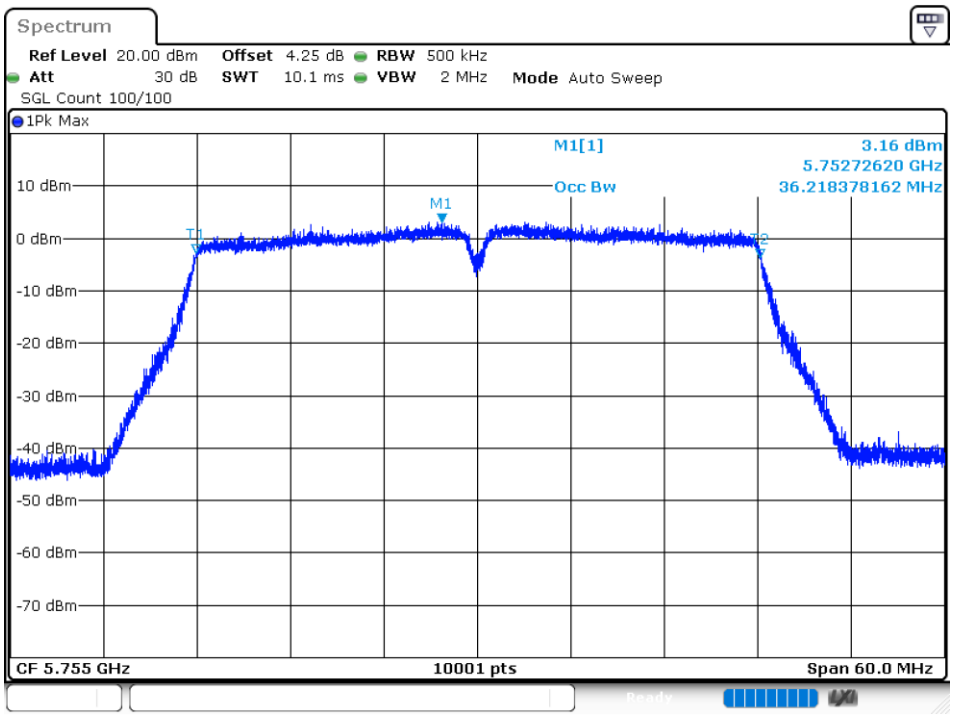

OBW NVNT ac20 5785MHz Ant1



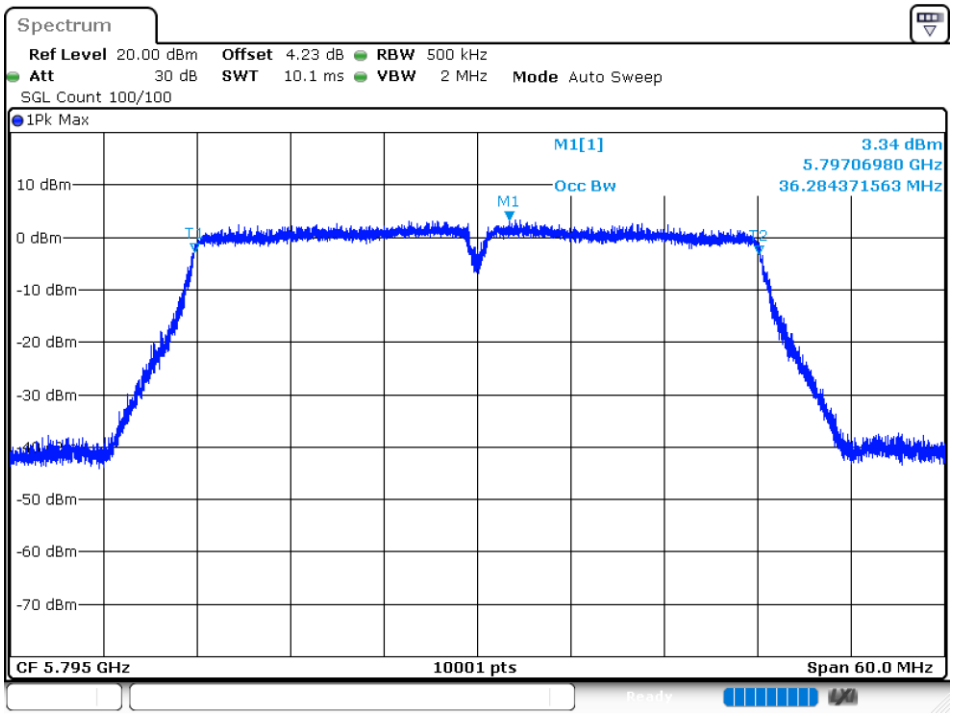
OBW NVNT ac20 5825MHz Ant1



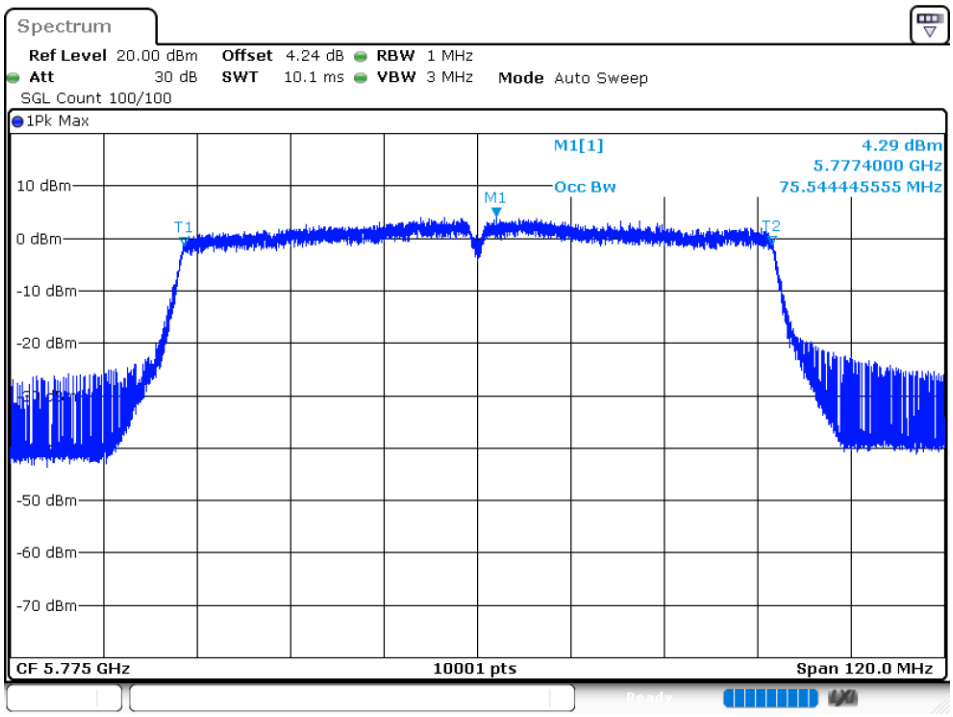

OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1




OBW NVNT ac80 5775MHz Ant1

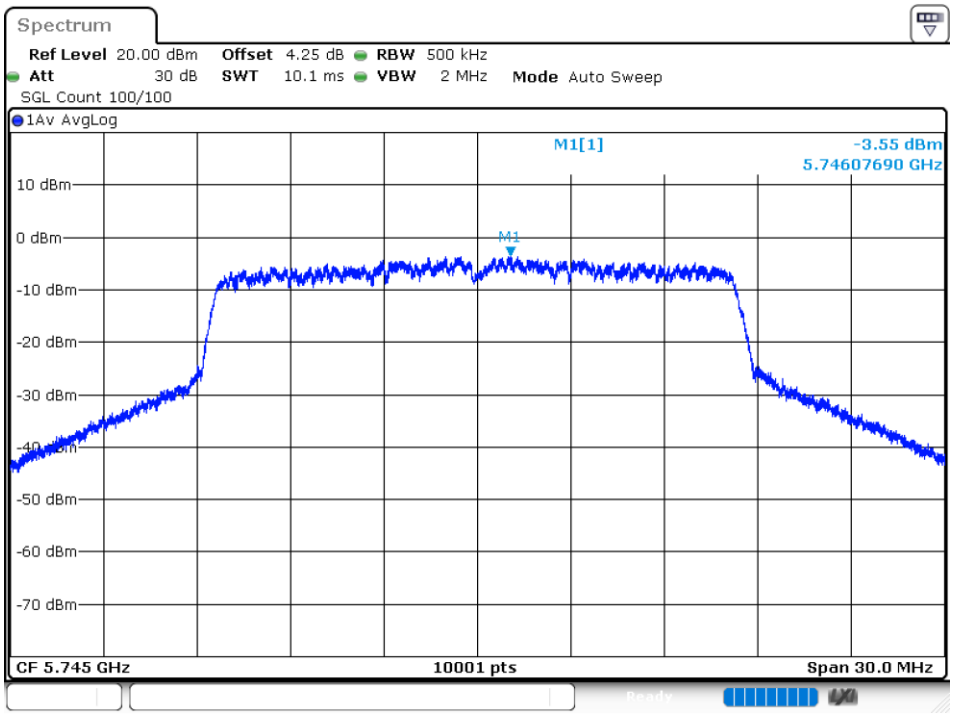


# Maximum Power Spectral Density Level

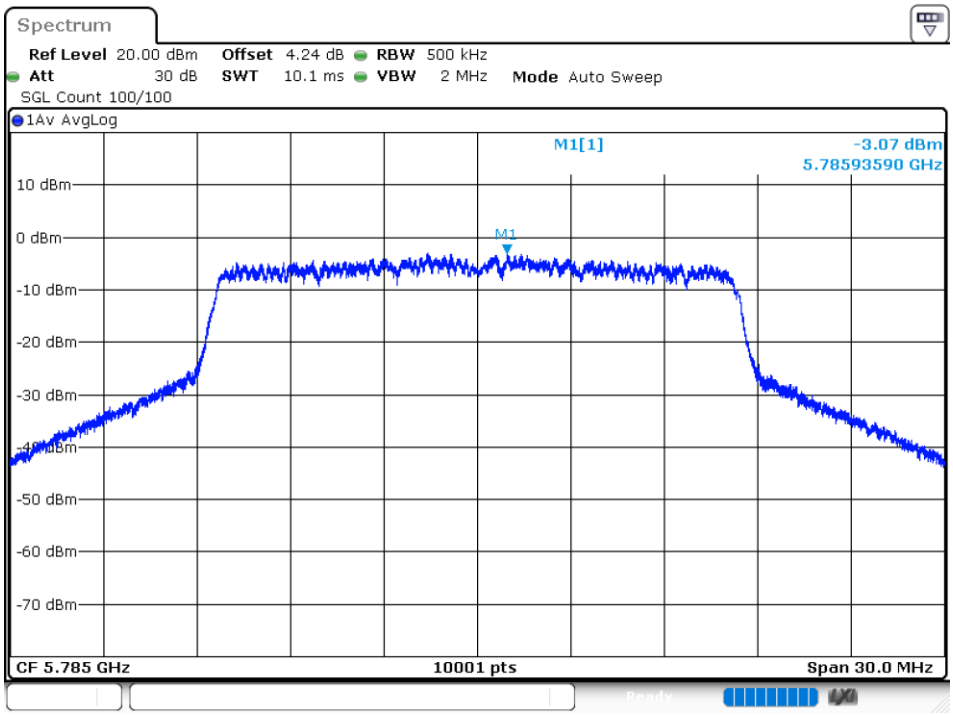
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | -3.55 | 0.06 | -3.49 | 30 | Pass |
| NVNT | a | 5785 | Ant1 | -3.07 | 0.05 | -3.02 | 30 | Pass |
| NVNT | a | 5825 | Ant1 | -3.17 | 0.01 | -3.16 | 30 | Pass |
| NVNT | n20 | 5745 | Ant1 | -4.14 | 0.06 | -4.08 | 30 | Pass |
| NVNT | n20 | 5785 | Ant1 | -3.3 | 0.07 | -3.23 | 30 | Pass |
| NVNT | n20 | 5825 | Ant1 | -3.83 | 0.01 | -3.82 | 30 | Pass |
| NVNT | n40 | 5755 | Ant1 | -5.91 | 0.05 | -5.86 | 30 | Pass |
| NVNT | n40 | 5795 | Ant1 | -6.58 | 0.04 | -6.54 | 30 | Pass |
| NVNT | ac20 | 5745 | Ant1 | -3.64 | 0.06 | -3.58 | 30 | Pass |
| NVNT | ac20 | 5785 | Ant1 | -3.58 | 0.06 | -3.52 | 30 | Pass |
| NVNT | ac20 | 5825 | Ant1 | -3.27 | 0.06 | -3.21 | 30 | Pass |
| NVNT | ac40 | 5755 | Ant1 | -6.43 | 0.12 | -6.31 | 30 | Pass |
| NVNT | ac40 | 5795 | Ant1 | -6.02 | 0.12 | -5.9 | 30 | Pass |
| NVNT | ac80 | 5775 | Ant1 | -9.92 | 0.24 | -9.68 | 30 | Pass |

Test Graphs

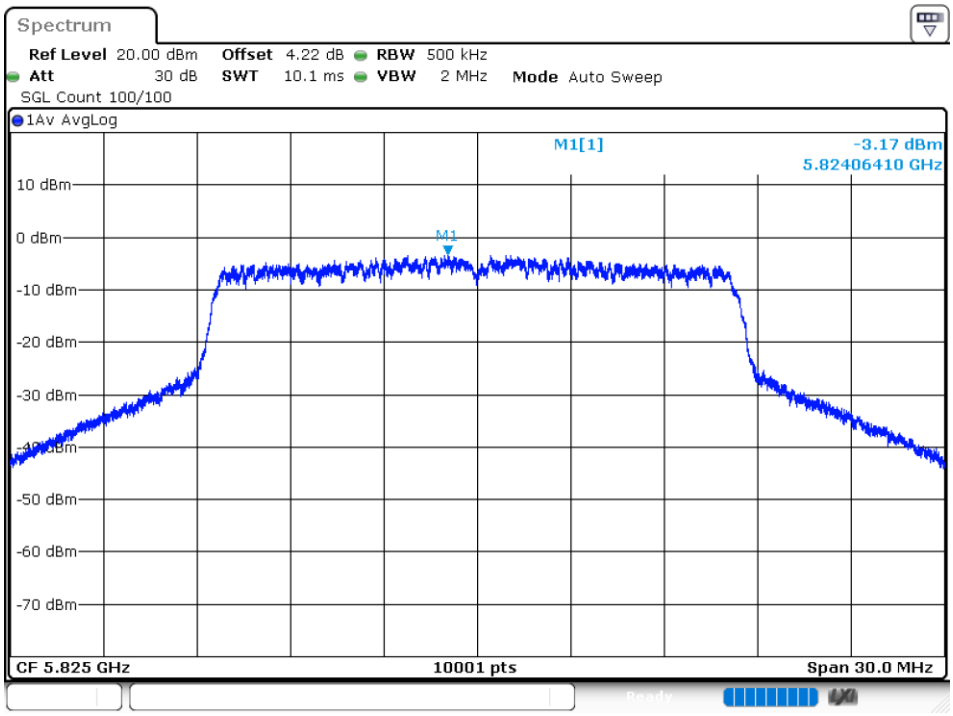
PSD NVNT a 5745MHz Ant1



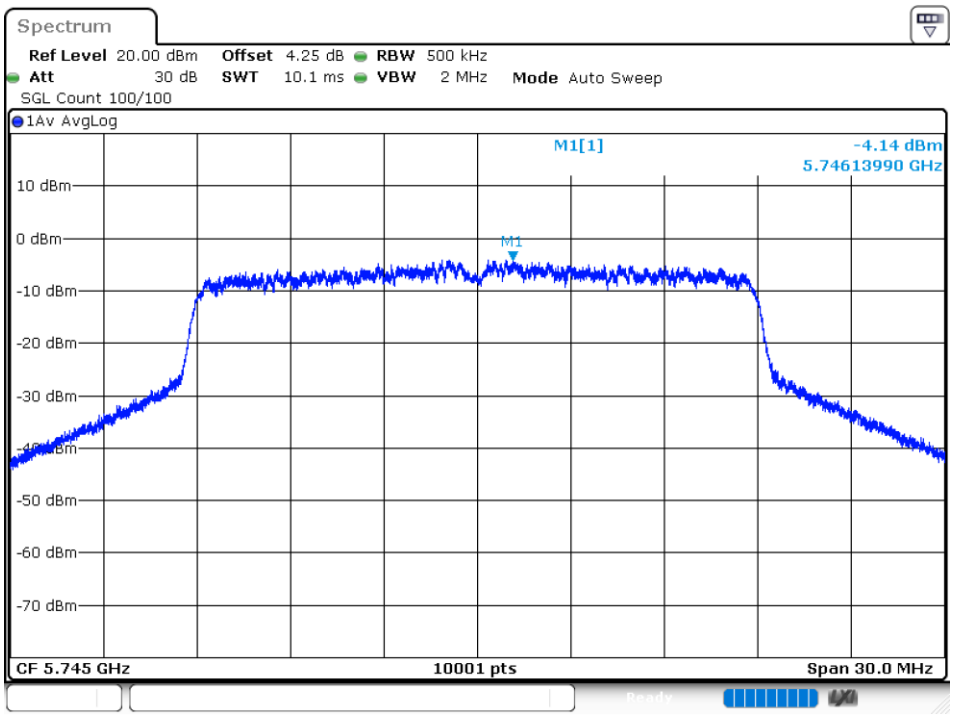

PSD NVNT a 5785MHz Ant1



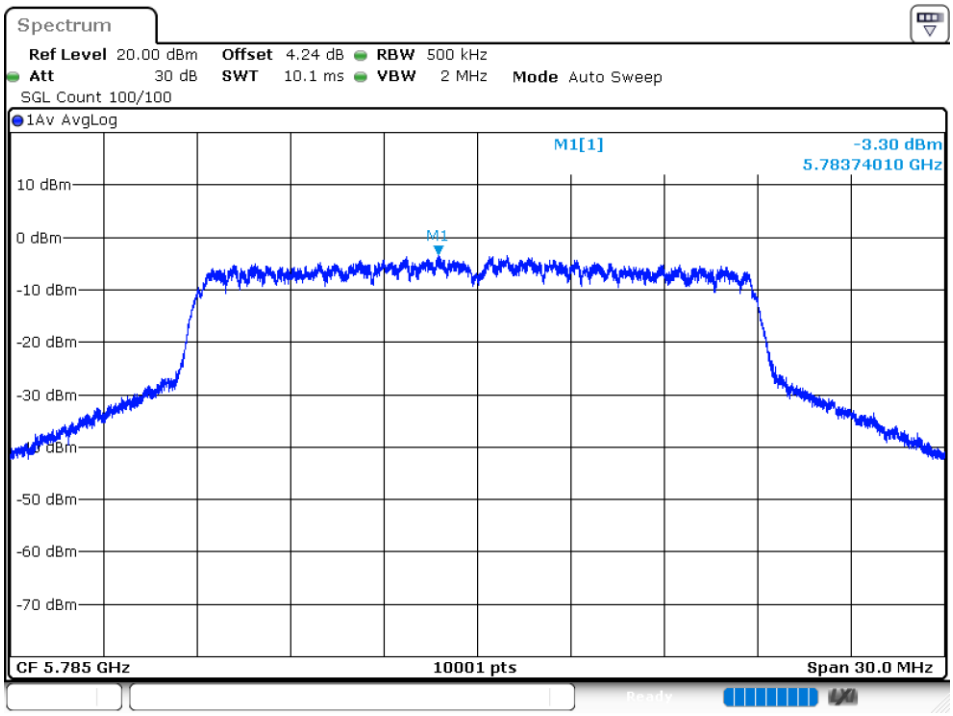
PSD NVNT a 5825MHz Ant1



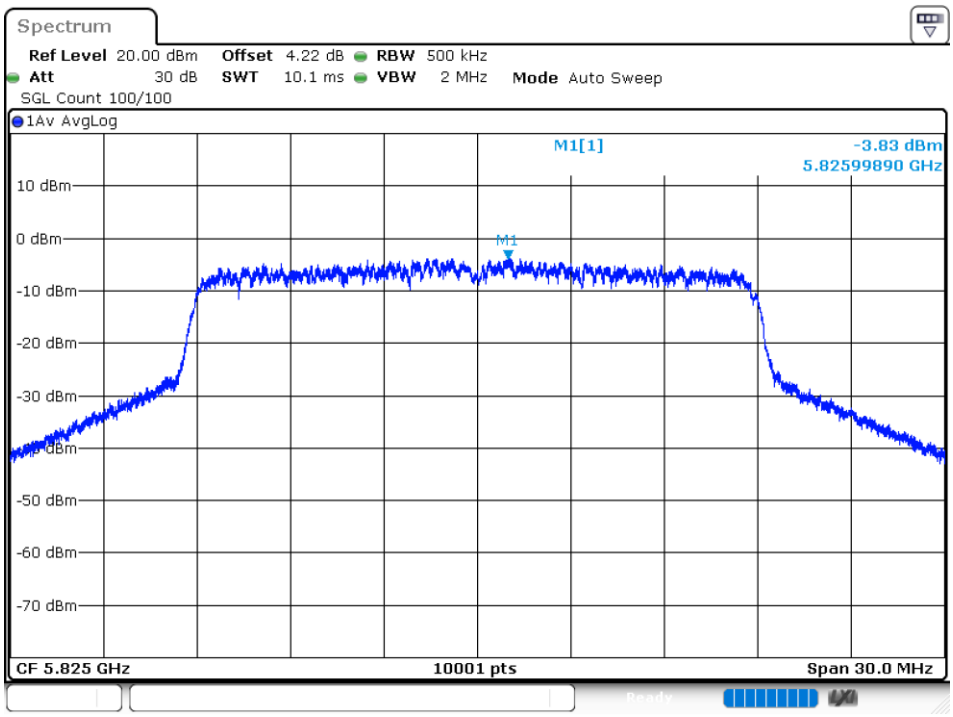

PSD NVNT n20 5745MHz Ant1



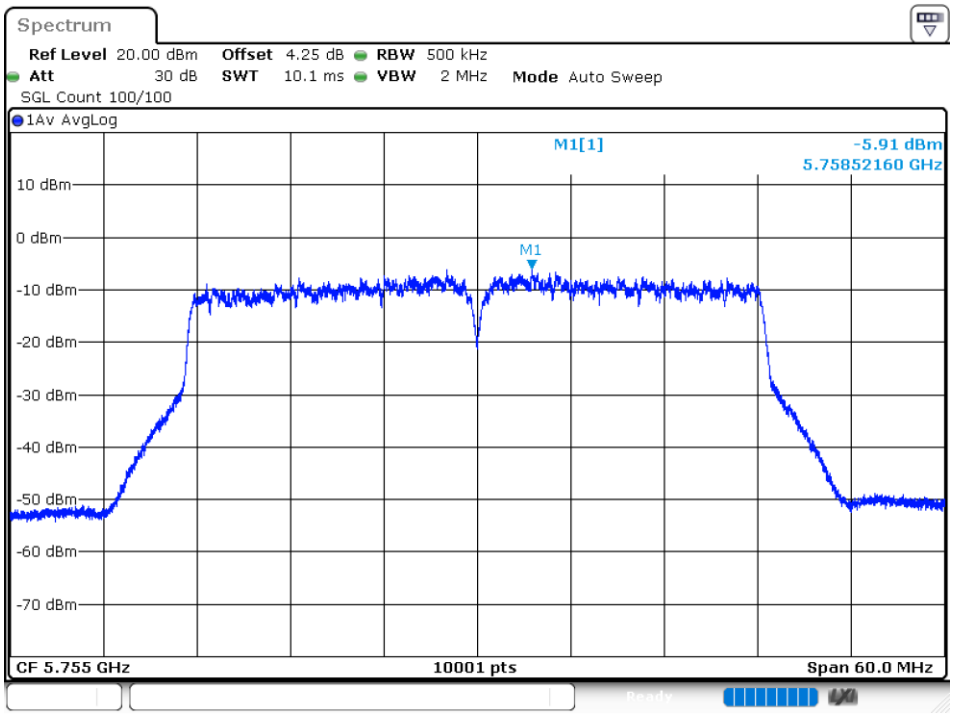
PSD NVNT n20 5785MHz Ant1



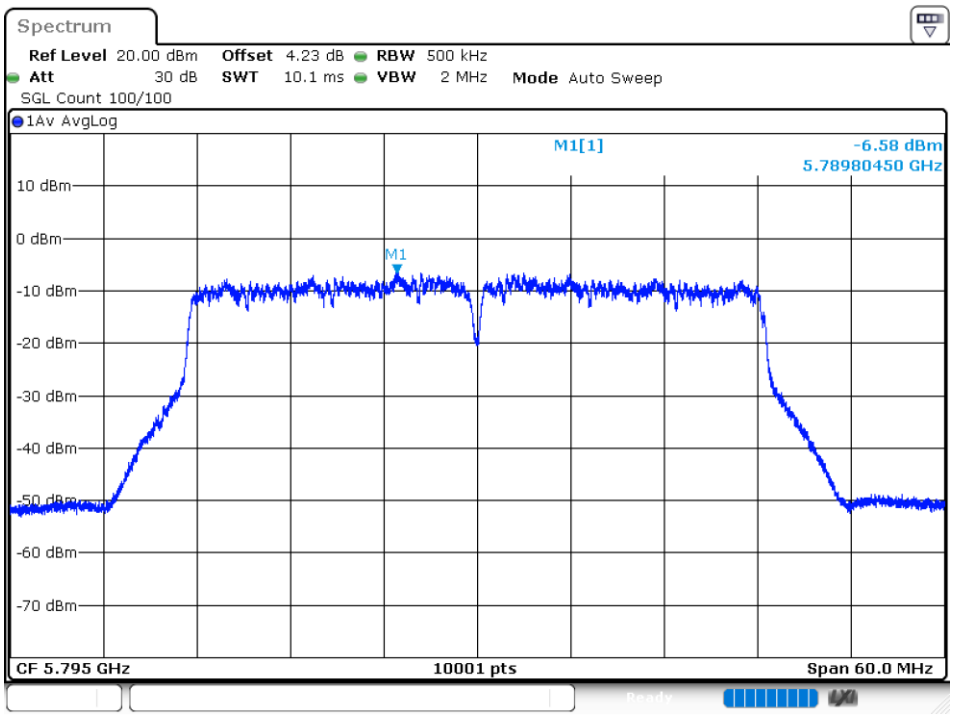

PSD NVNT n20 5825MHz Ant1



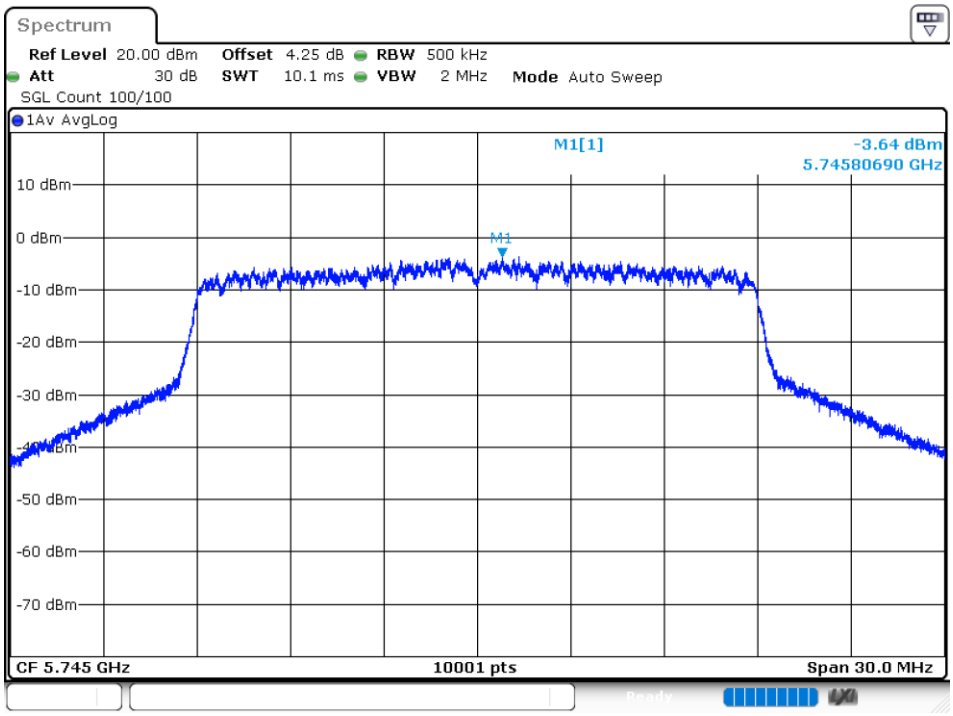
PSD NVNT n40 5755MHz Ant1



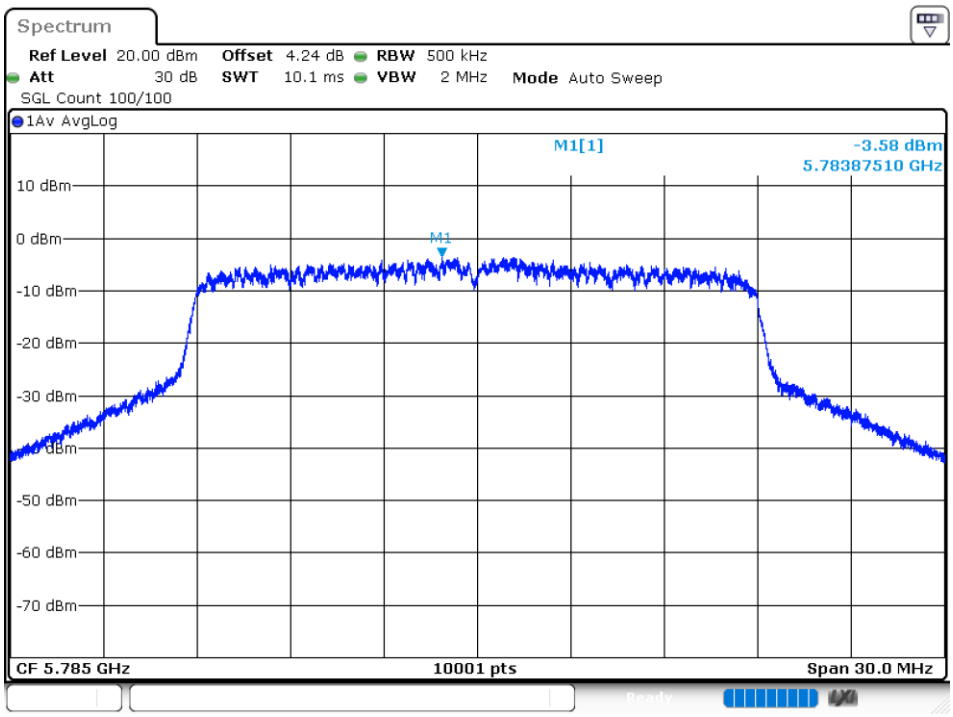

PSD NVNT n40 5795MHz Ant1



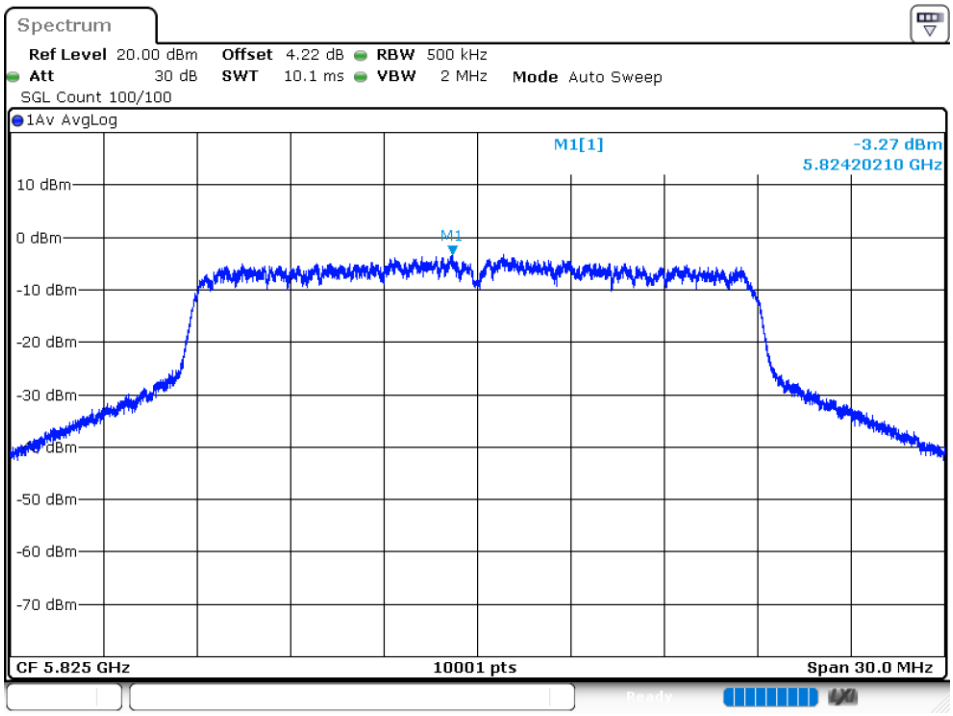
PSD NVNT ac20 5745MHz Ant1



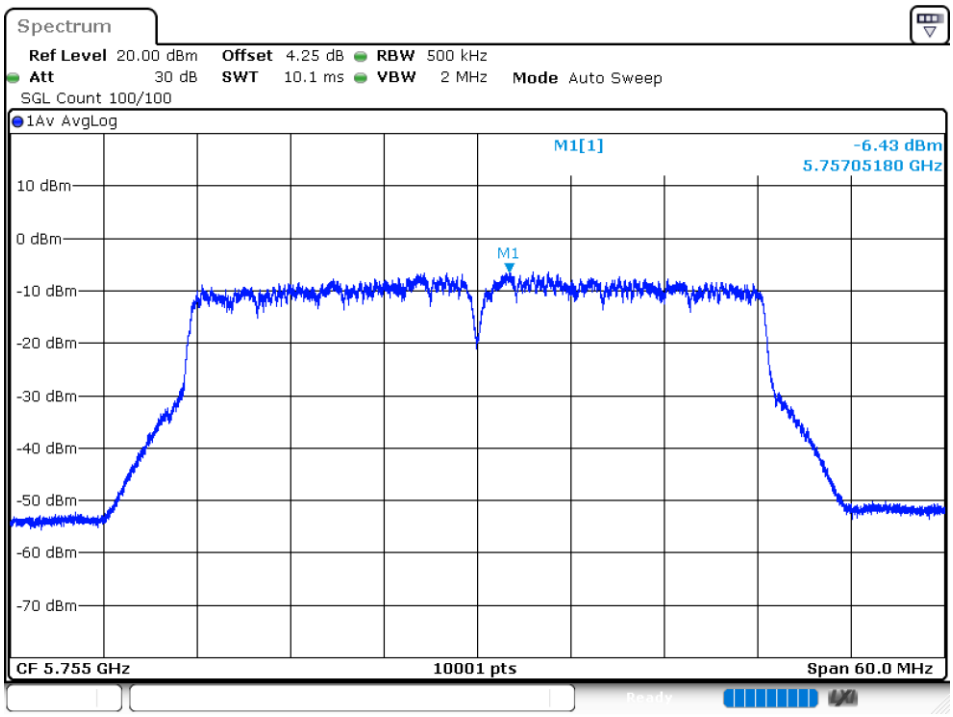

PSD NVNT ac20 5785MHz Ant1



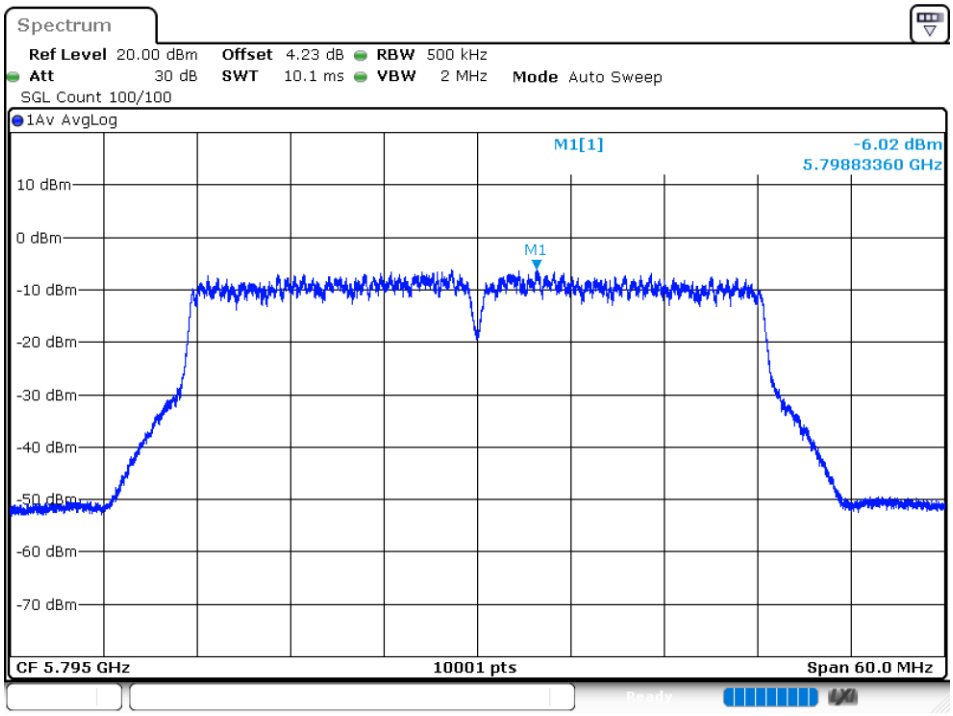
PSD NVNT ac20 5825MHz Ant1



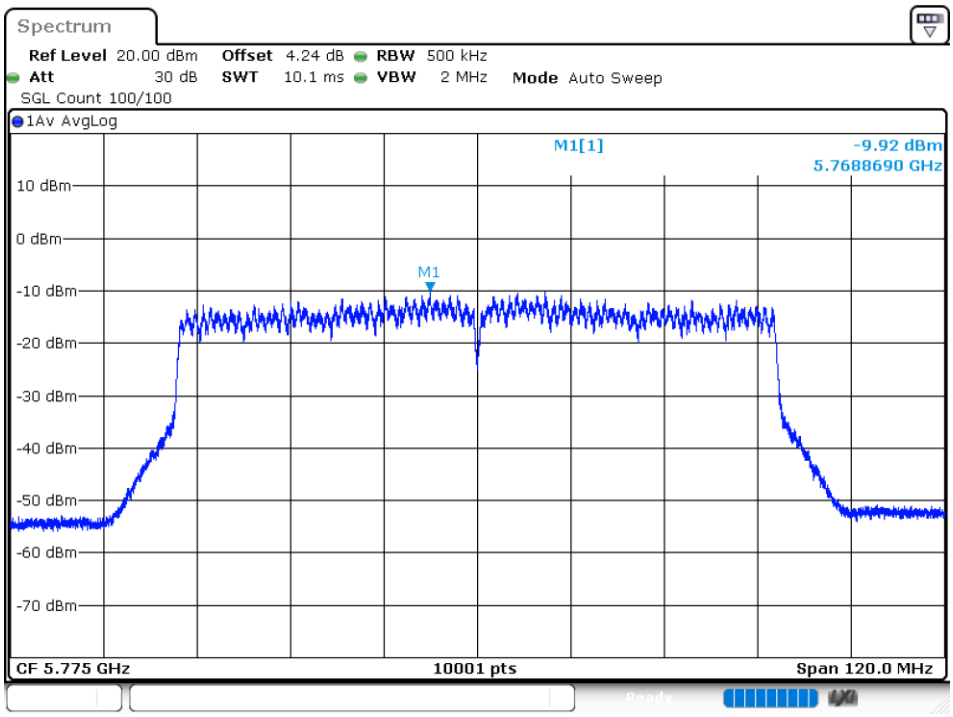

PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1




PSD NVNT ac80 5775MHz Ant1

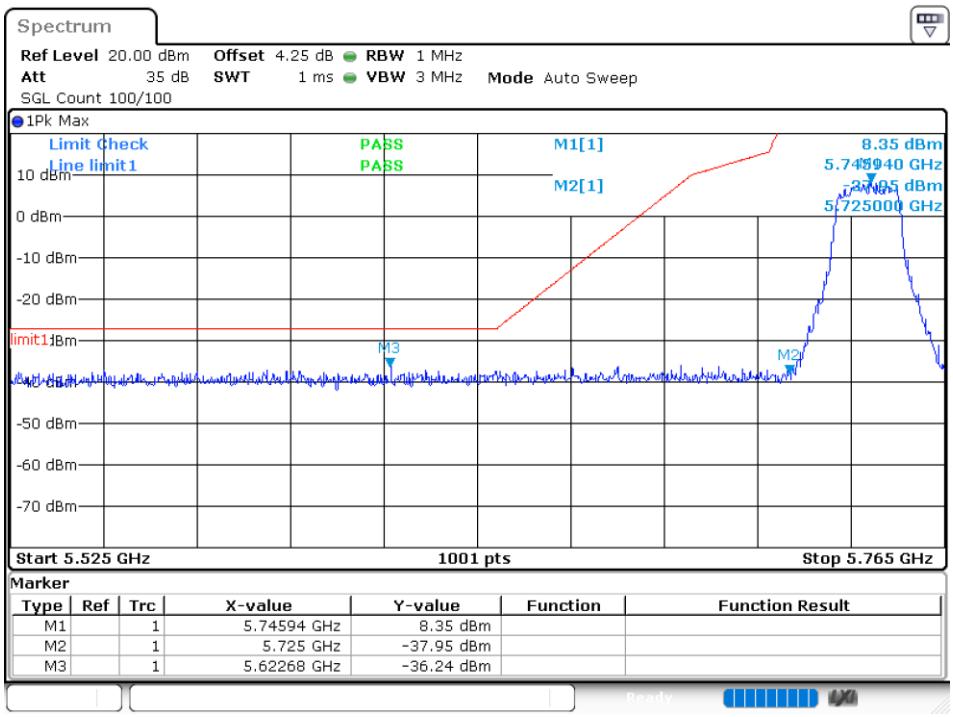


# Band Edge

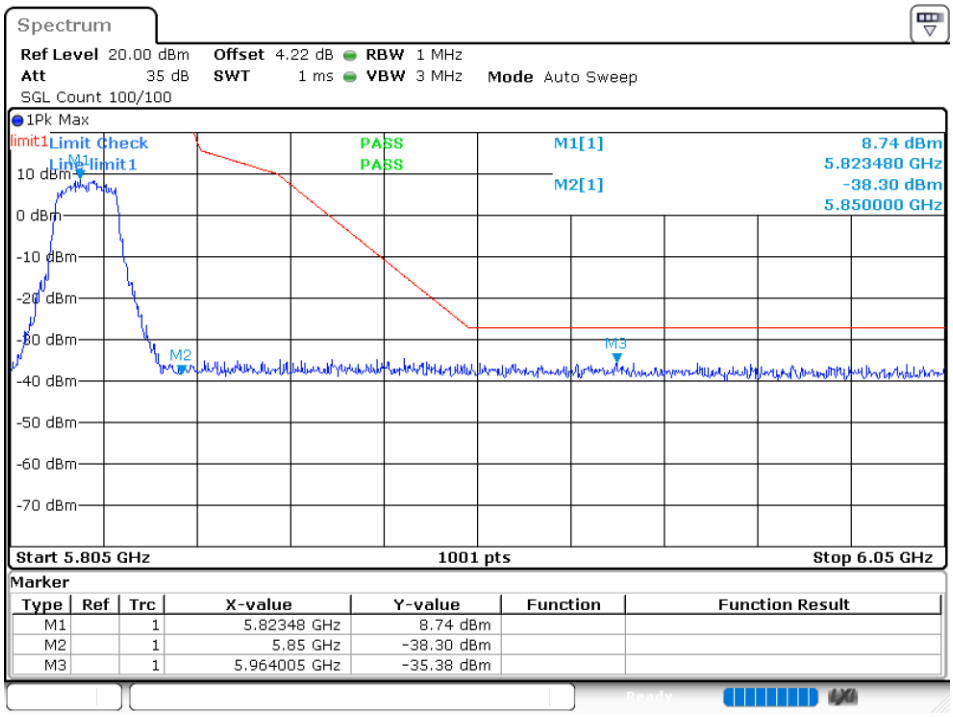
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | -36.23 | -27 | Pass |
| NVNT | a | 5825 | Ant1 | -35.38 | -27 | Pass |
| NVNT | n20 | 5745 | Ant1 | -36.78 | -27 | Pass |
| NVNT | n20 | 5825 | Ant1 | -34.92 | -27 | Pass |
| NVNT | n40 | 5755 | Ant1 | -36.51 | -27 | Pass |
| NVNT | n40 | 5795 | Ant1 | -35.07 | -27 | Pass |
| NVNT | ac20 | 5745 | Ant1 | -36.8 | -27 | Pass |
| NVNT | ac20 | 5825 | Ant1 | -35.32 | -27 | Pass |
| NVNT | ac40 | 5755 | Ant1 | -36.98 | -27 | Pass |
| NVNT | ac40 | 5795 | Ant1 | -34.26 | -27 | Pass |
| NVNT | ac80 | 5775 | Ant1 | -31.74 | -27 | Pass |
| NVNT | ac80 | 5775 | Ant1 | -41.18 | -27 | Pass |

Test Graphs

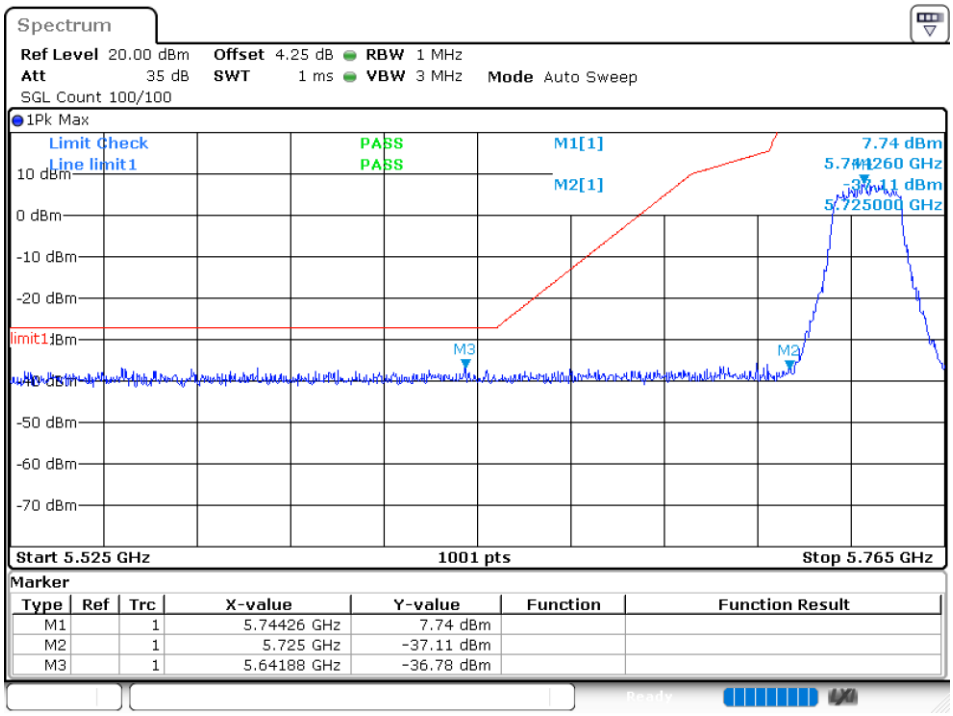
Band Edge NVNT a 5745MHz Low Ant1



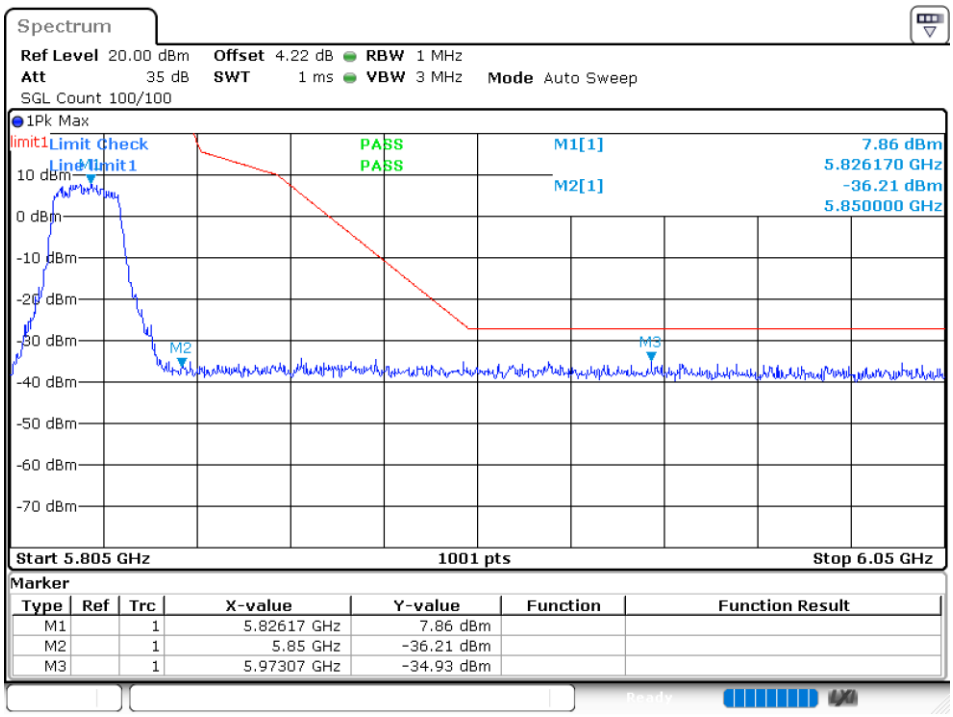

Band Edge NVNT a 5825MHz High Ant1



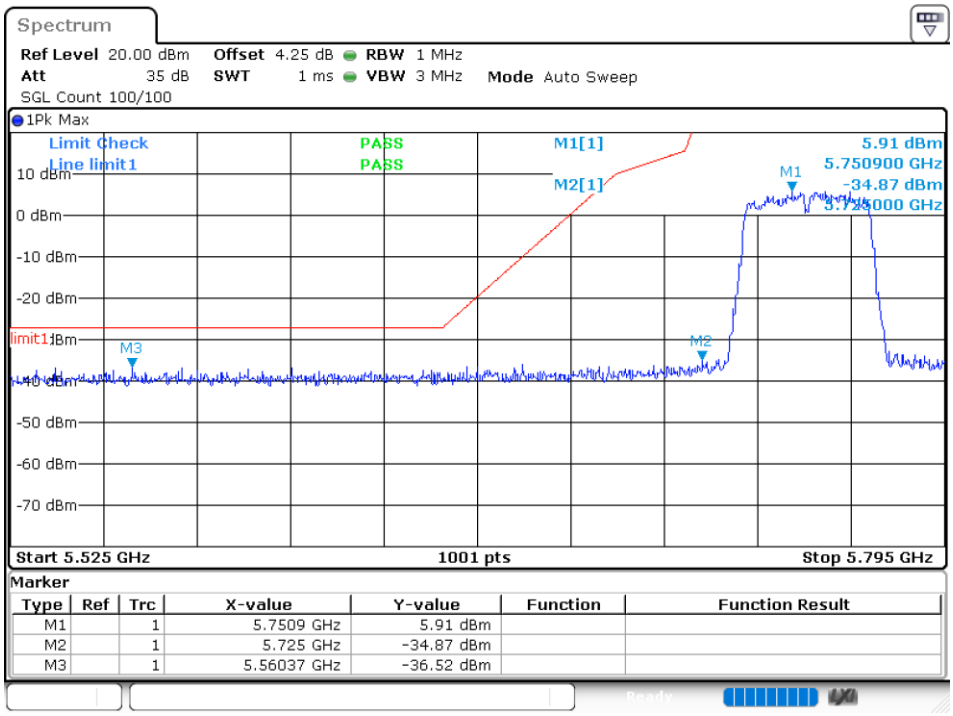
Band Edge NVNT n20 5745MHz Low Ant1



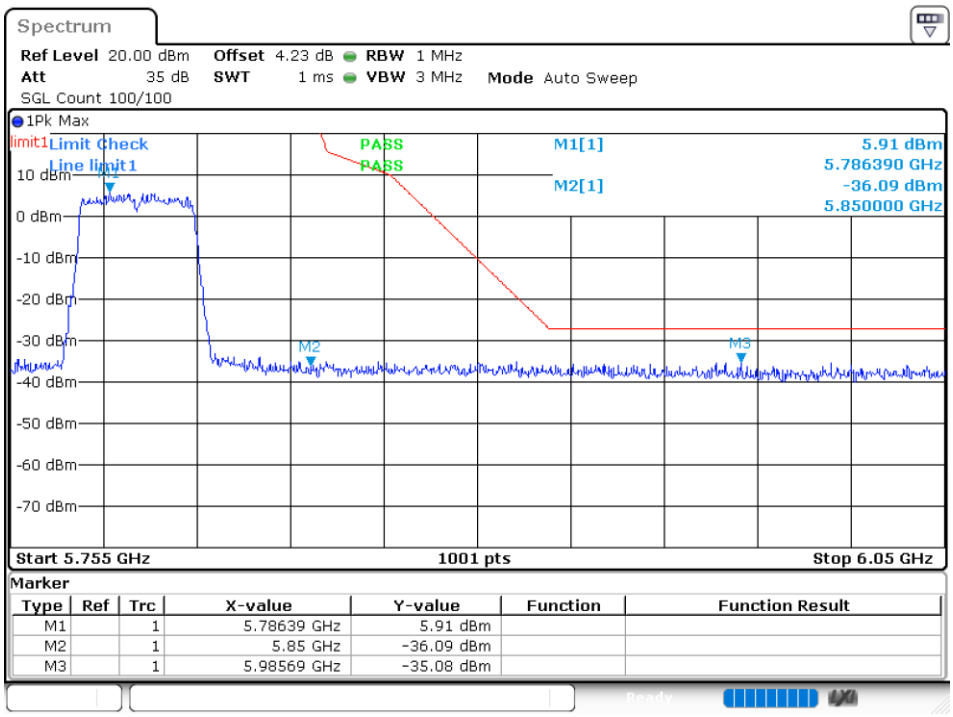

Band Edge NVNT n20 5825MHz High Ant1



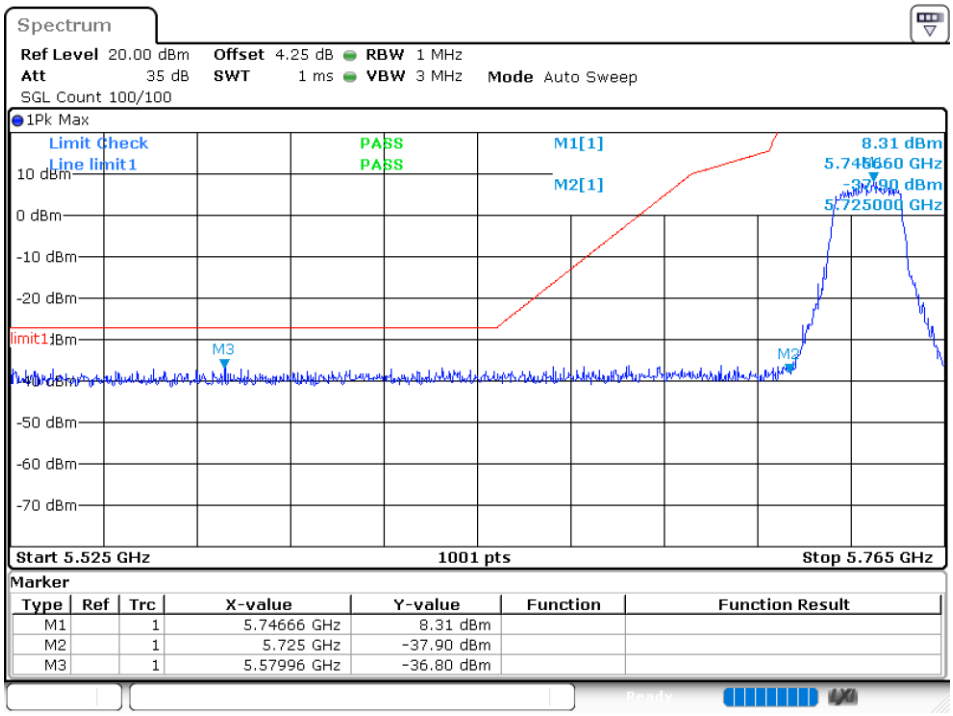
Band Edge NVNT n40 5755MHz Low Ant1



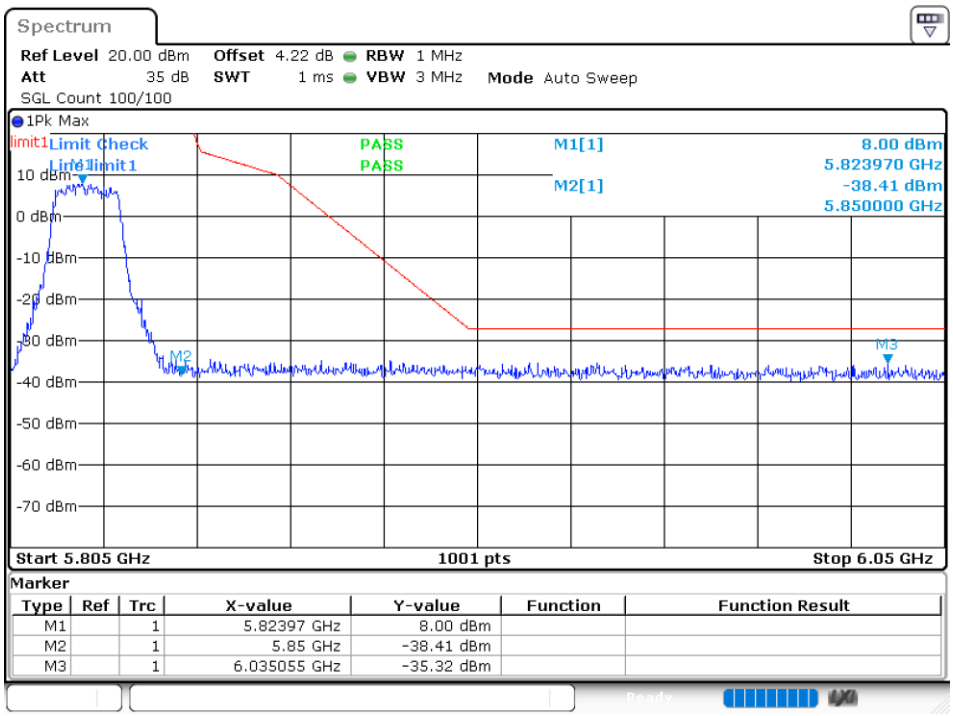

Band Edge NVNT n40 5795MHz High Ant1



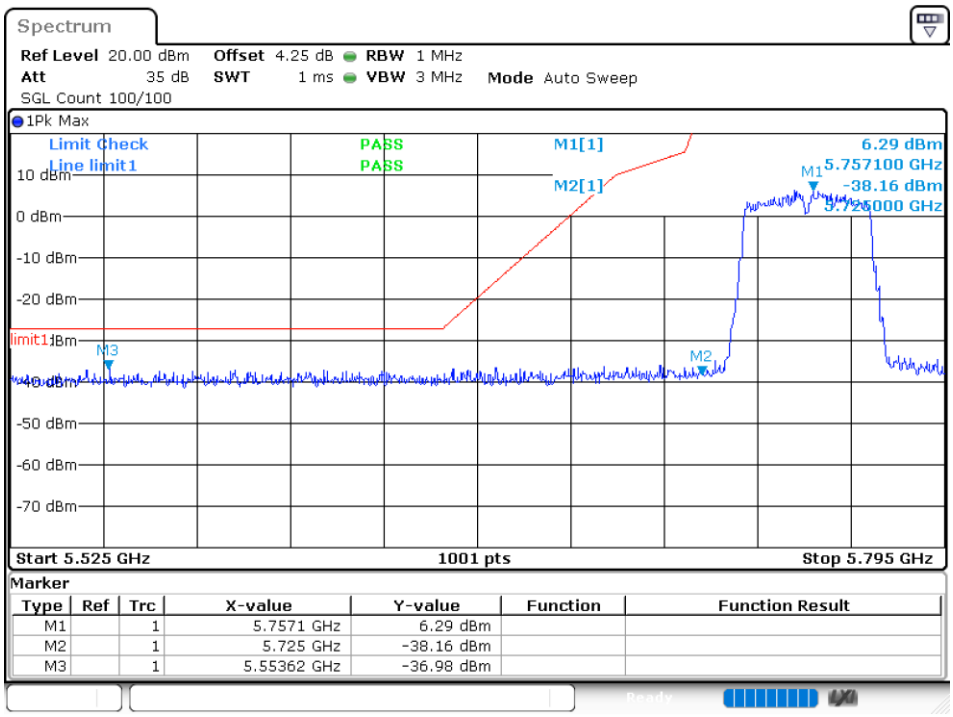
Band Edge NVNT ac20 5745MHz Low Ant1




Band Edge NVNT ac20 5825MHz High Ant1



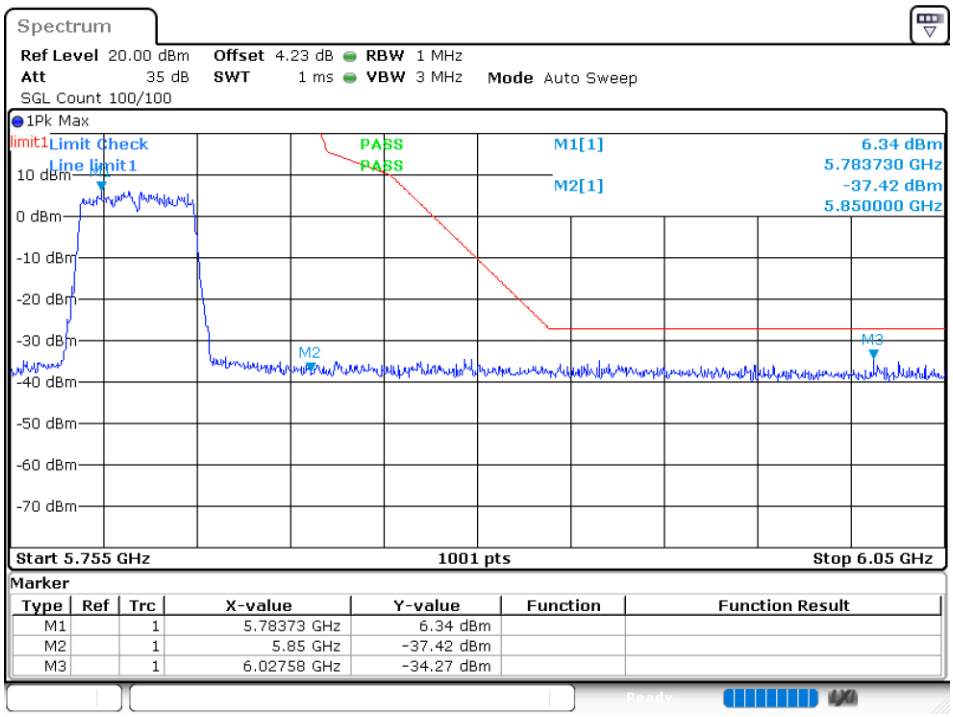
Band Edge NVNT ac40 5755MHz Low Ant1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.7571 GHz | 6.29 dBm | | |
| M2 | | 1 | 5.725 GHz | -38.16 dBm | | |
| M3 | | 1 | 5.55362 GHz | -36.98 dBm | | |

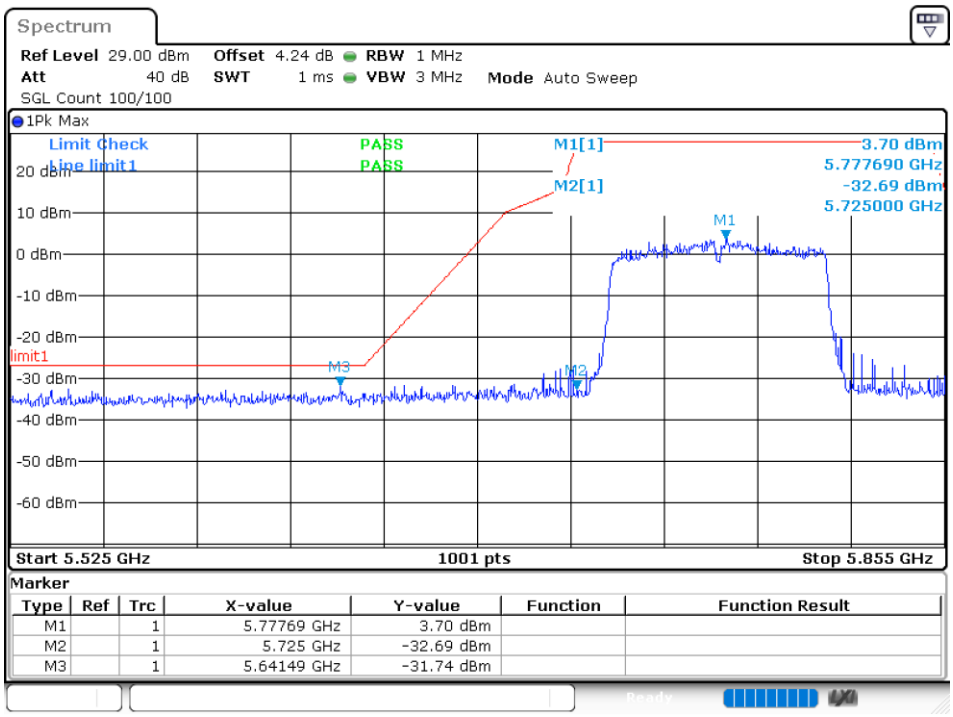
Band Edge NVNT ac40 5795MHz High Ant1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.78373 GHz | 6.34 dBm | | |
| M2 | | 1 | 5.85 GHz | -37.42 dBm | | |
| M3 | | 1 | 6.02758 GHz | -34.27 dBm | | |

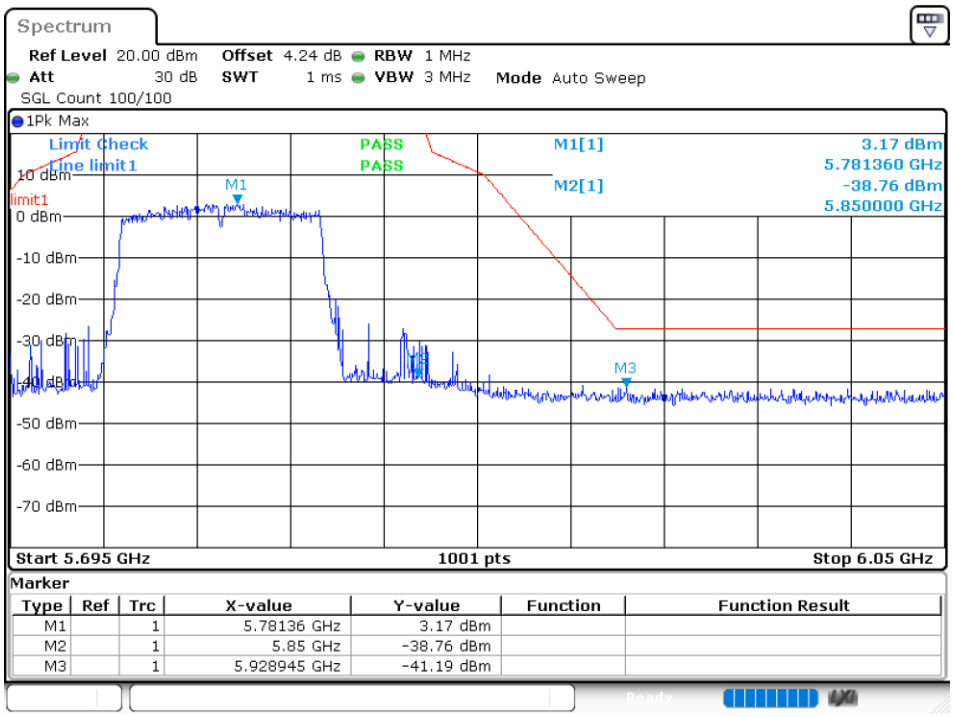
Band Edge NVNT ac80 5775MHz Low Ant1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.77769 GHz | 3.70 dBm | | |
| M2 | | 1 | 5.725 GHz | -32.69 dBm | | |
| M3 | | 1 | 5.64149 GHz | -31.74 dBm | | |

Band Edge NVNT ac80 5775MHz High Ant1




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.78136 GHz | 3.17 dBm | | |
| M2 | | 1 | 5.85 GHz | -38.76 dBm | | |
| M3 | | 1 | 5.928945 GHz | -41.19 dBm | | |

# Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5745 | Ant1 | -32.49 | -27 | Pass |
| NVNT | a | 5785 | Ant1 | -32.99 | -27 | Pass |
| NVNT | a | 5825 | Ant1 | -32.99 | -27 | Pass |
| NVNT | n20 | 5745 | Ant1 | -32.77 | -27 | Pass |
| NVNT | n20 | 5785 | Ant1 | -32.97 | -27 | Pass |
| NVNT | n20 | 5825 | Ant1 | -31.66 | -27 | Pass |
| NVNT | n40 | 5755 | Ant1 | -32.54 | -27 | Pass |
| NVNT | n40 | 5795 | Ant1 | -32.51 | -27 | Pass |
| NVNT | ac20 | 5745 | Ant1 | -32.87 | -27 | Pass |
| NVNT | ac20 | 5785 | Ant1 | -32.12 | -27 | Pass |
| NVNT | ac20 | 5825 | Ant1 | -32.85 | -27 | Pass |
| NVNT | ac40 | 5755 | Ant1 | -32.5 | -27 | Pass |
| NVNT | ac40 | 5795 | Ant1 | -32.71 | -27 | Pass |
| NVNT | ac80 | 5775 | Ant1 | -32.58 | -27 | Pass |