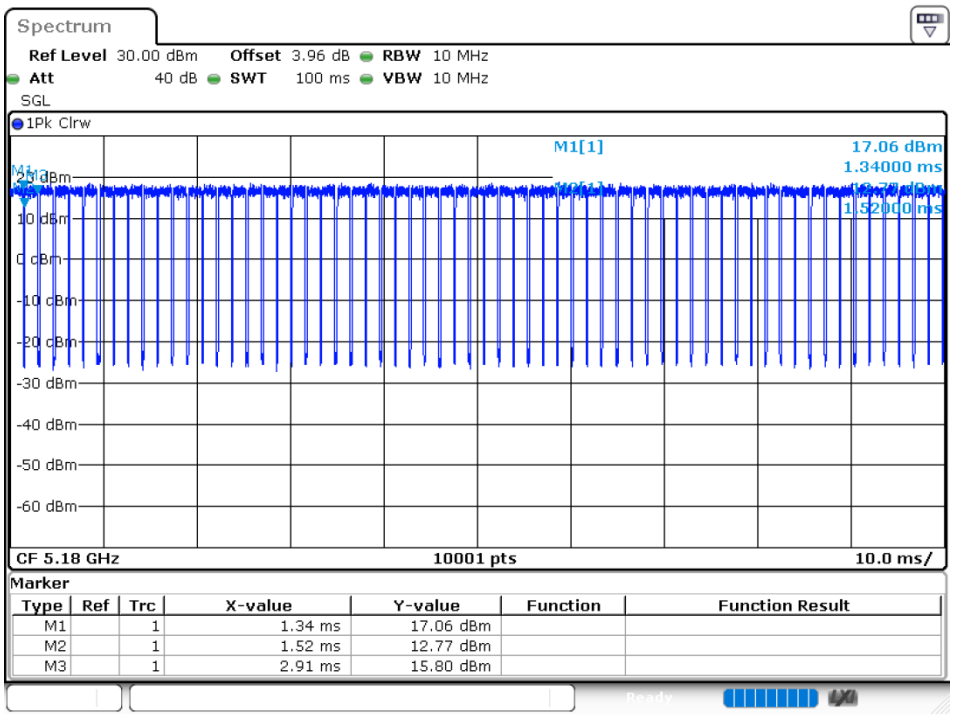
WIFI 5.2G:

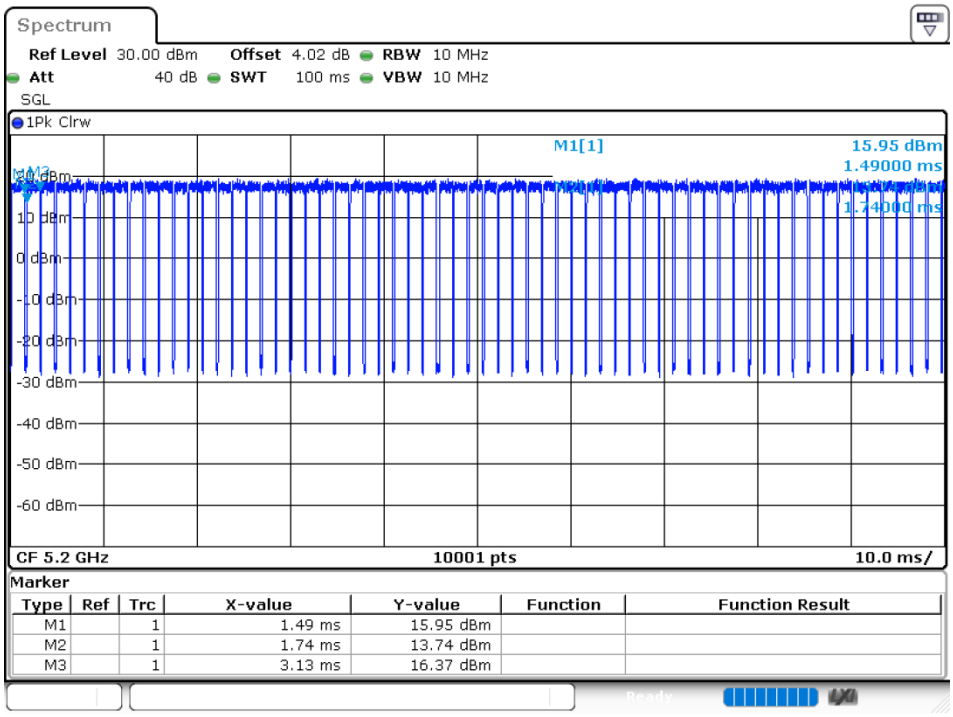
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	88.36	0.54	0.72
NVNT	a	5200	Ant1	88.55	0.53	0.72
NVNT	a	5240	Ant1	88.72	0.52	0.71
NVNT	n20	5180	Ant1	84.86	0.71	0.85
NVNT	n20	5200	Ant1	87.47	0.58	0.85
NVNT	n20	5240	Ant1	85	0.71	0.85
NVNT	n40	5190	Ant1	76.7	1.15	1.72
NVNT	n40	5230	Ant1	76.69	1.15	1.72
NVNT	ac20	5180	Ant1	87.38	0.59	0.84
NVNT	ac20	5200	Ant1	87.2	0.59	0.84
NVNT	ac20	5240	Ant1	87.3	0.59	0.85
NVNT	ac40	5190	Ant1	73.44	1.34	33.33
NVNT	ac40	5230	Ant1	76.98	1.14	1.67
NVNT	ac80	5210	Ant1	64	1.94	3.45

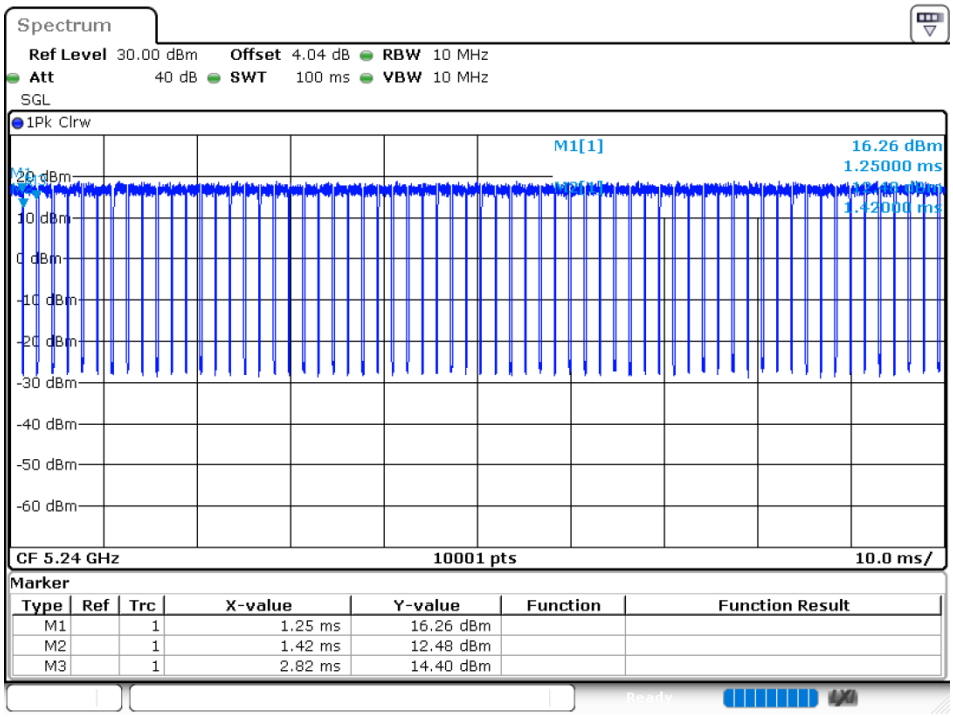
Test Graphs
Duty Cycle NVNT a 5180MHz Ant1



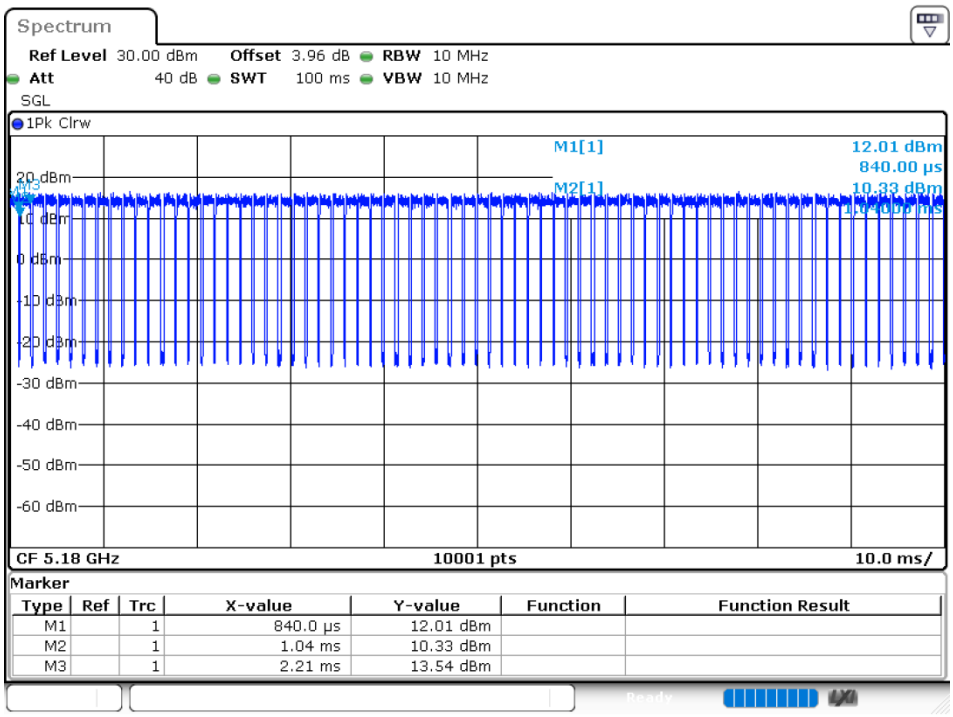
Duty Cycle NVNT a 5200MHz Ant1



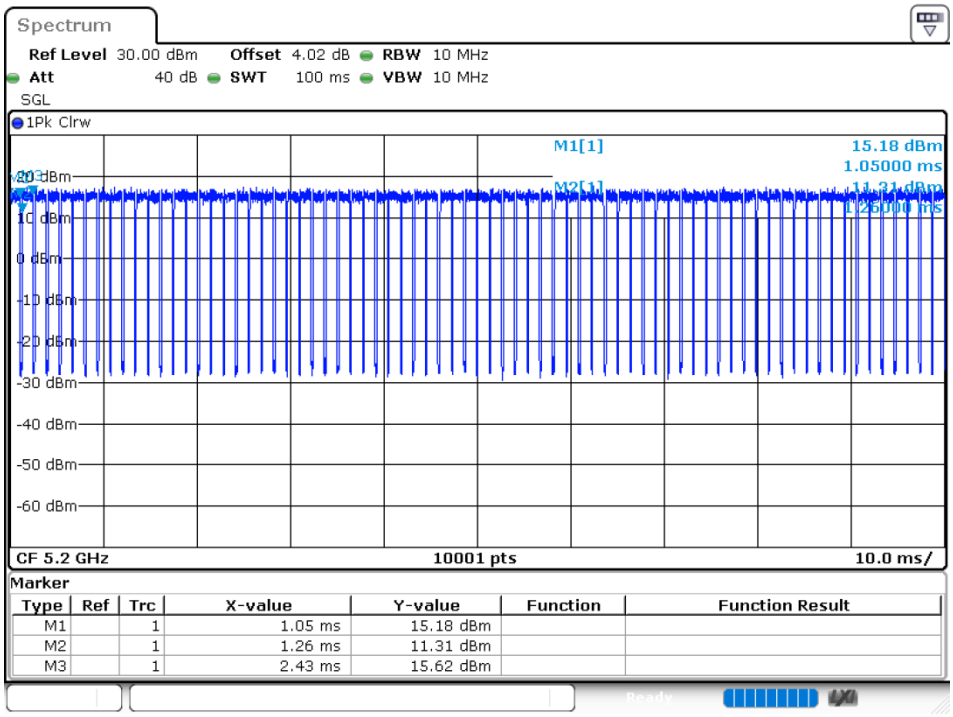
Duty Cycle NVNT a 5240MHz Ant1



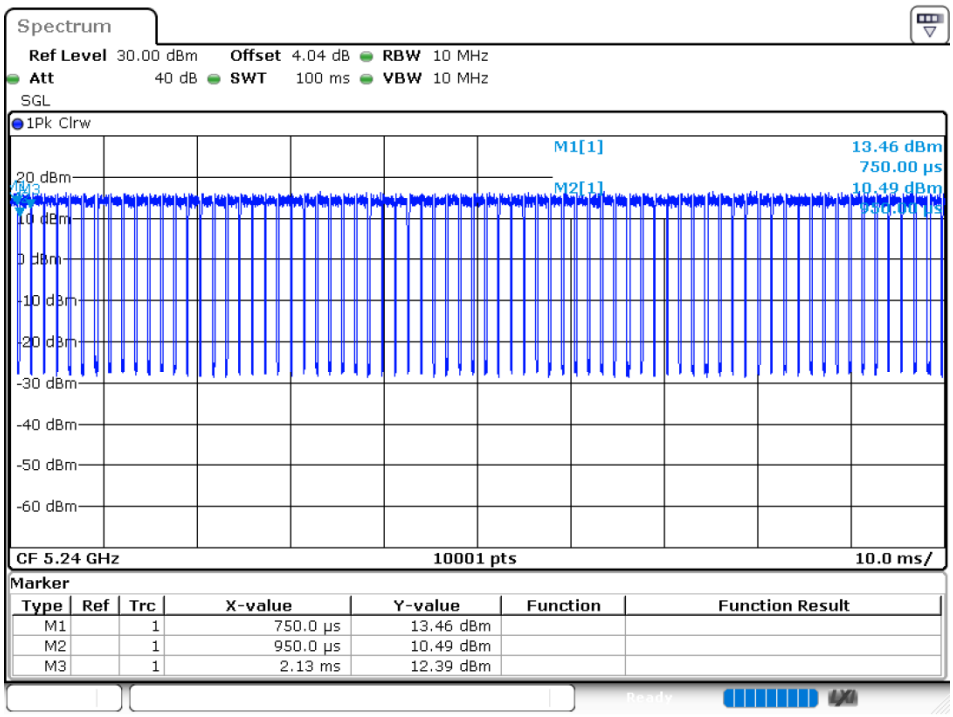
Duty Cycle NVNT n20 5180MHz Ant1



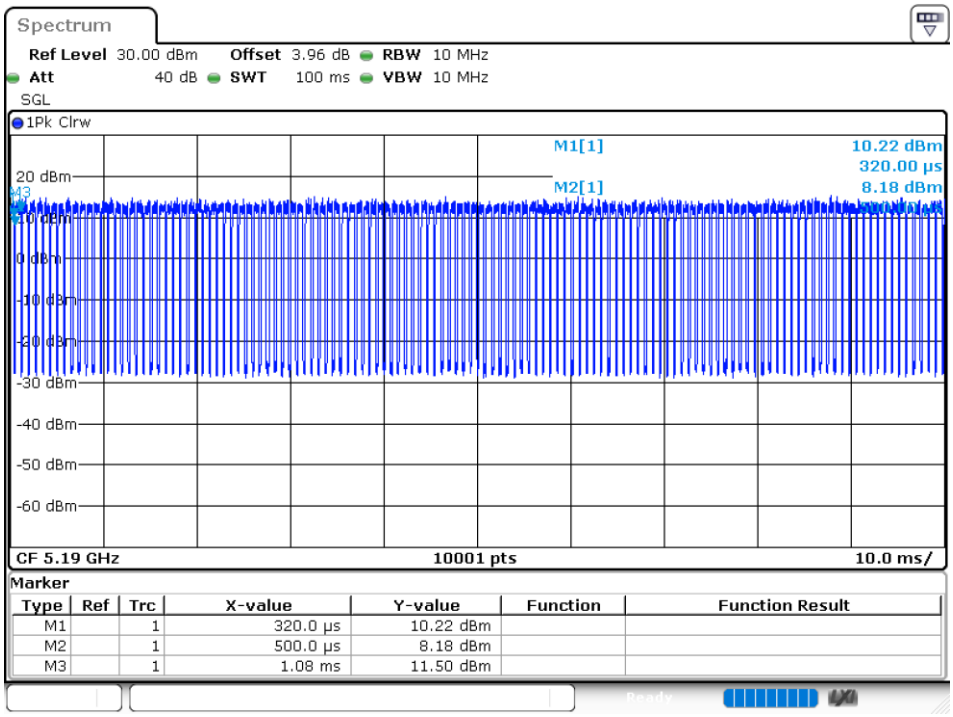
Duty Cycle NVNT n20 5200MHz Ant1



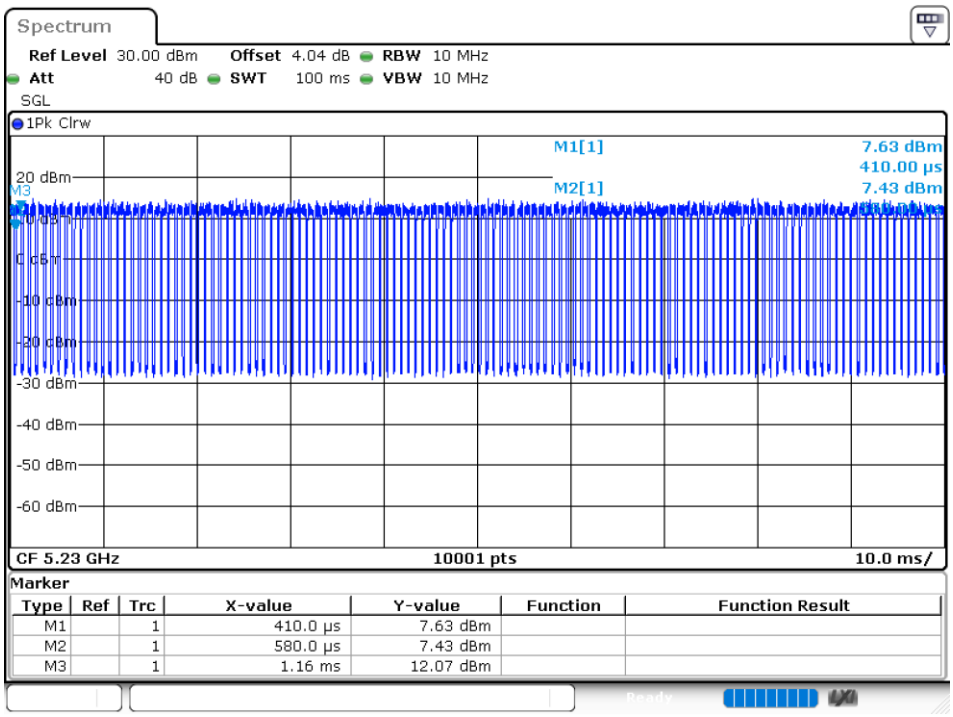
Duty Cycle NVNT n20 5240MHz Ant1



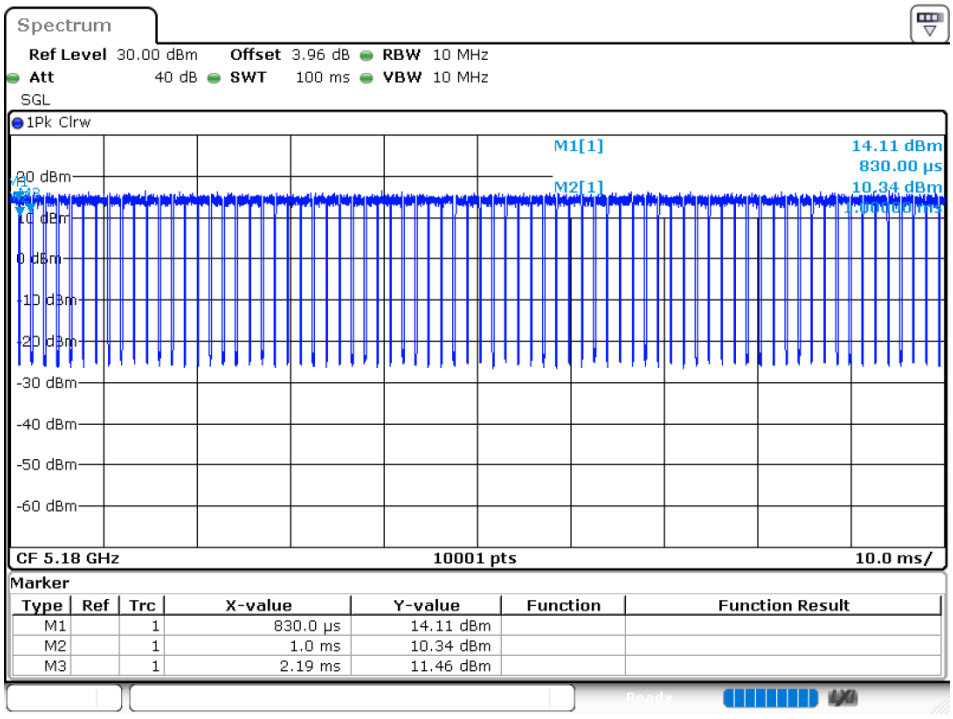
Duty Cycle NVNT n40 5190MHz Ant1



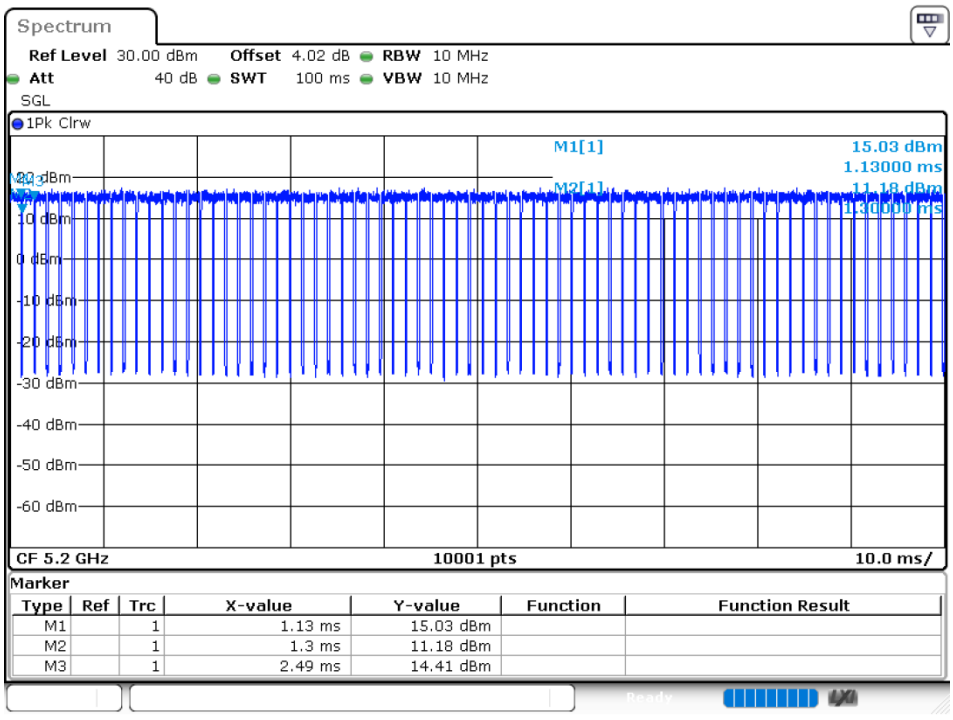
Duty Cycle NVNT n40 5230MHz Ant1



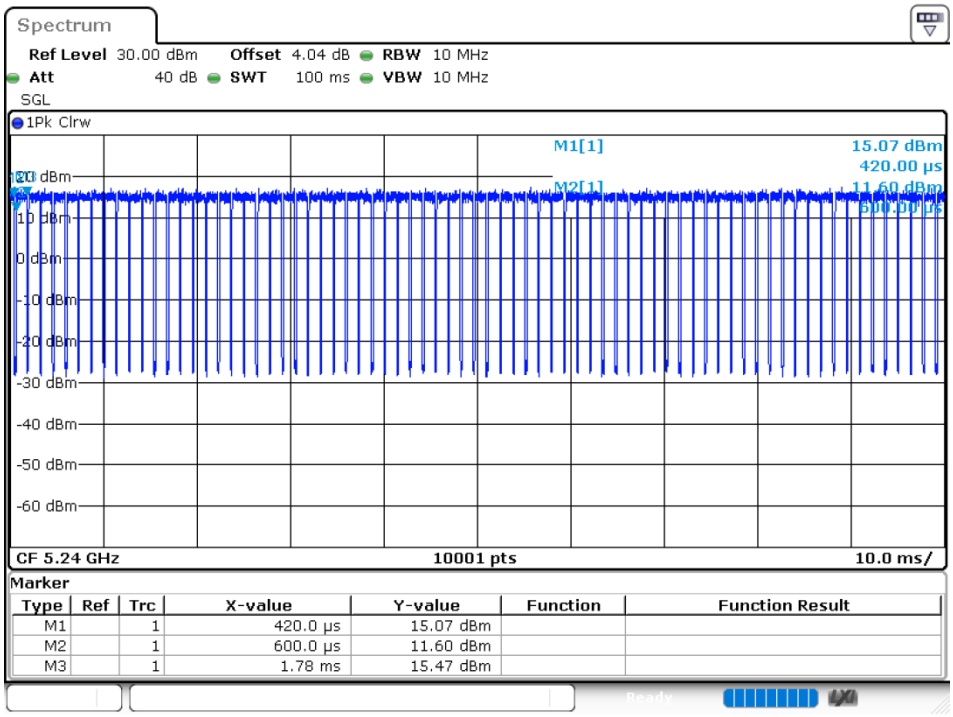
Duty Cycle NVNT ac20 5180MHz Ant1



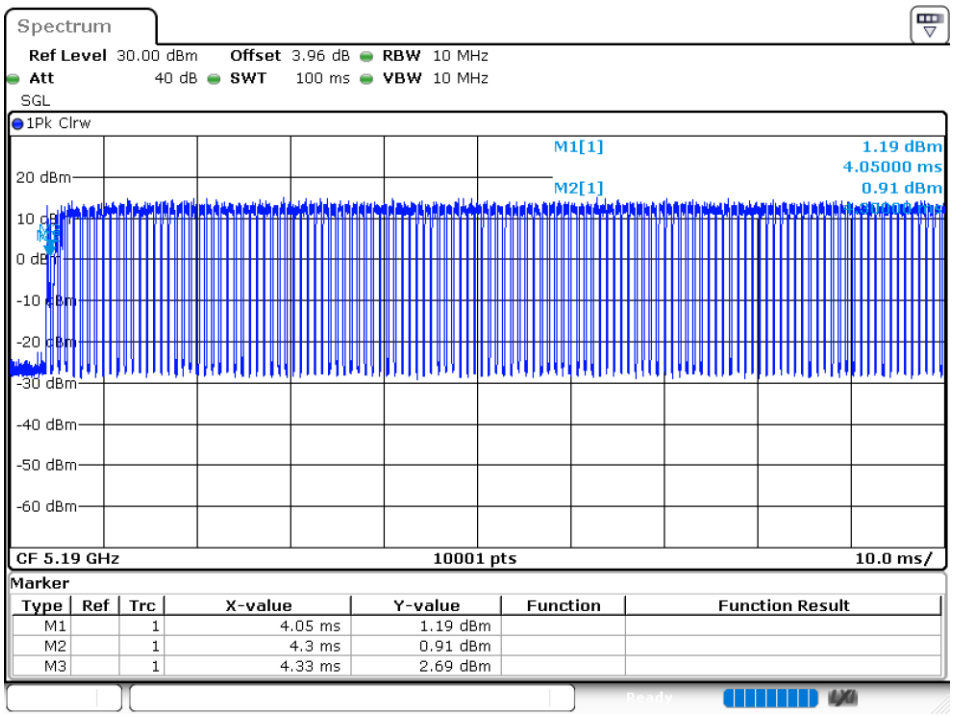
Duty Cycle NVNT ac20 5200MHz Ant1



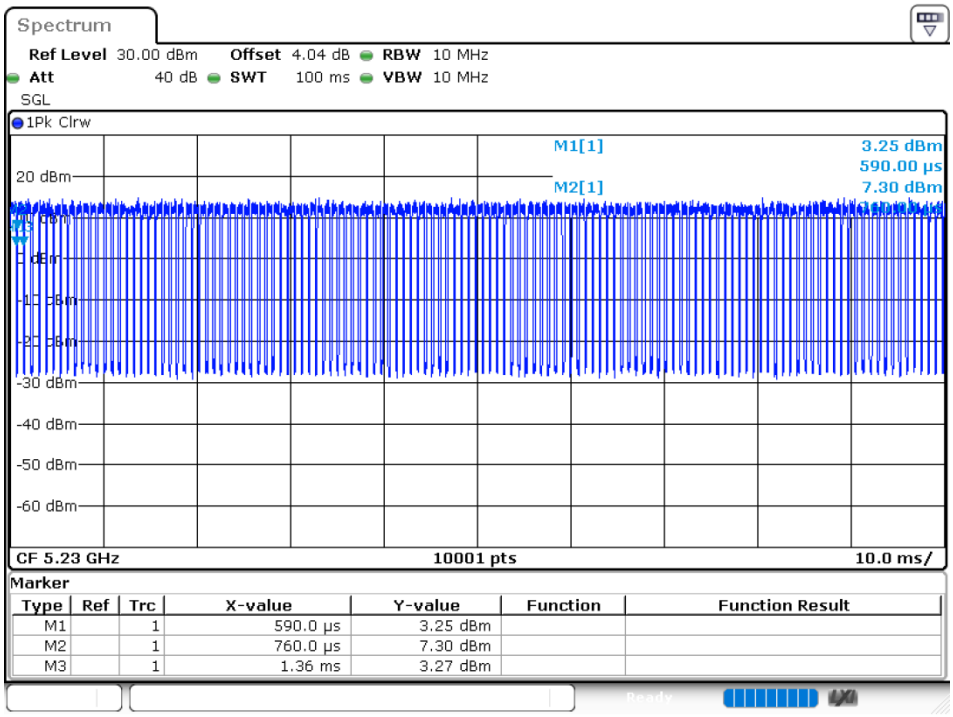
Duty Cycle NVNT ac20 5240MHz Ant1



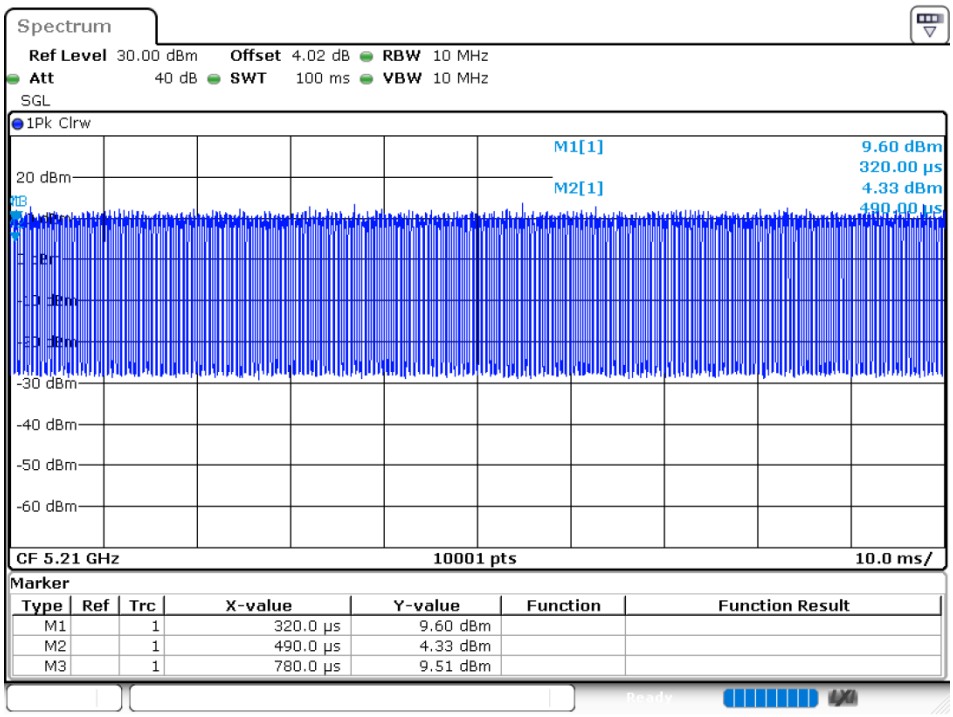
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

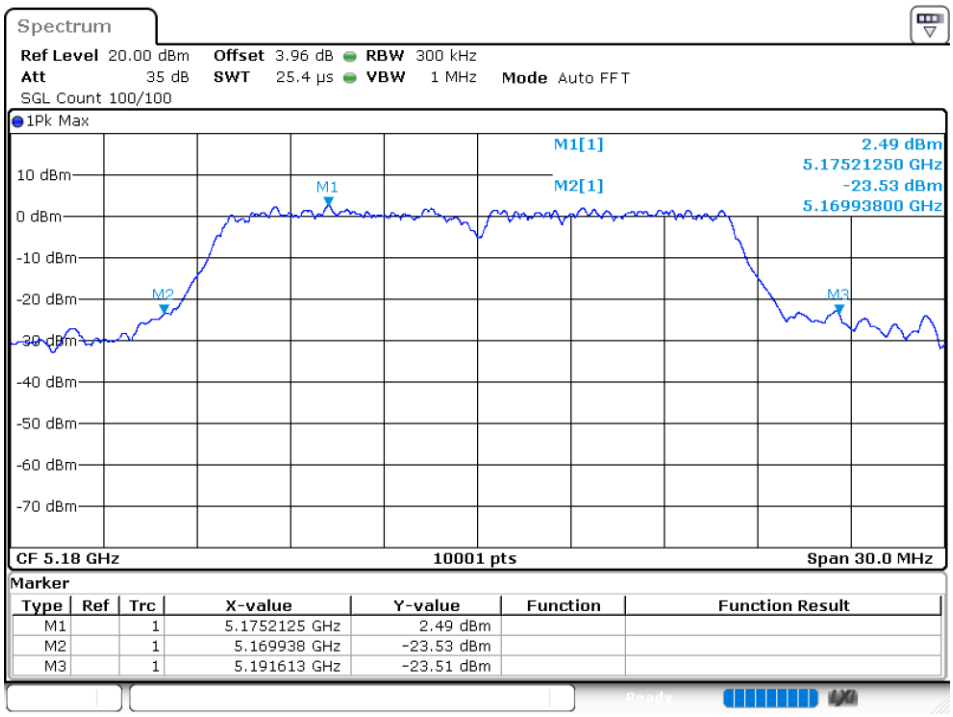
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.3	24	Pass
NVNT	a	5200	Ant1	12.09	24	Pass
NVNT	a	5240	Ant1	11.85	24	Pass
NVNT	n20	5180	Ant1	10.55	24	Pass
NVNT	n20	5200	Ant1	10.22	24	Pass
NVNT	n20	5240	Ant1	10.04	24	Pass
NVNT	n40	5190	Ant1	10.92	24	Pass
NVNT	n40	5230	Ant1	10.3	24	Pass
NVNT	ac20	5180	Ant1	10.61	24	Pass
NVNT	ac20	5200	Ant1	10.34	24	Pass
NVNT	ac20	5240	Ant1	10.9	24	Pass
NVNT	ac40	5190	Ant1	10.85	24	Pass
NVNT	ac40	5230	Ant1	10.25	24	Pass
NVNT	ac80	5210	Ant1	10.65	24	Pass

Note: The average power value already includes the duty cycle factor

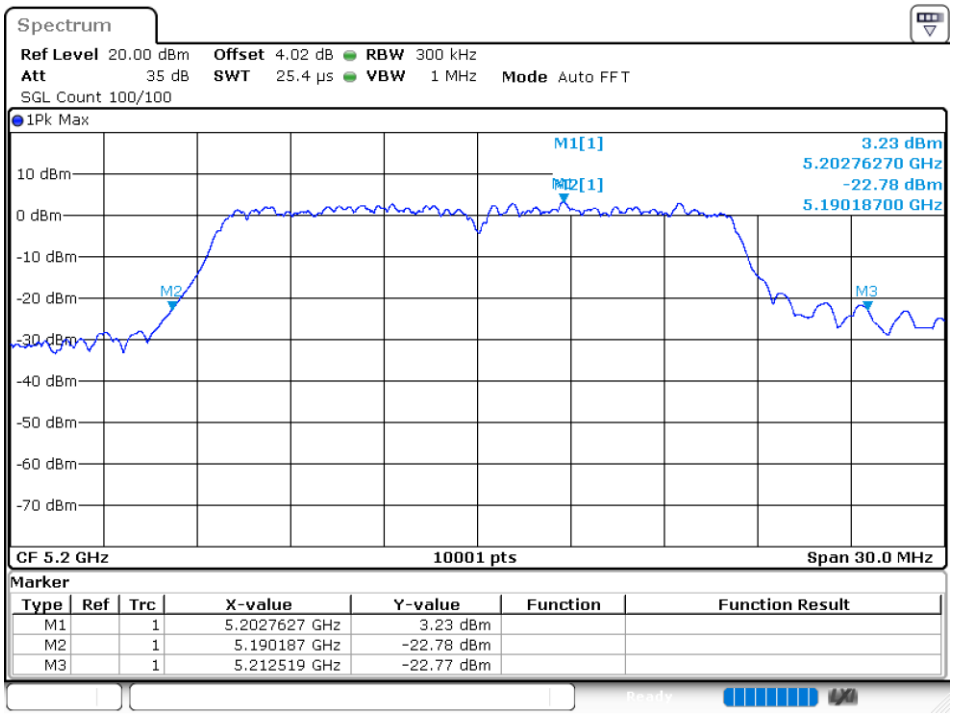
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	21.675	Pass
NVNT	a	5200	Ant1	22.332	Pass
NVNT	a	5240	Ant1	26.124	Pass
NVNT	n20	5180	Ant1	22.989	Pass
NVNT	n20	5200	Ant1	23.316	Pass
NVNT	n20	5240	Ant1	22.485	Pass
NVNT	n40	5190	Ant1	53.802	Pass
NVNT	n40	5230	Ant1	59.382	Pass
NVNT	ac20	5180	Ant1	23.79	Pass
NVNT	ac20	5200	Ant1	22.626	Pass
NVNT	ac20	5240	Ant1	22.989	Pass
NVNT	ac40	5190	Ant1	54.672	Pass
NVNT	ac40	5230	Ant1	58.236	Pass
NVNT	ac80	5210	Ant1	82.764	Pass

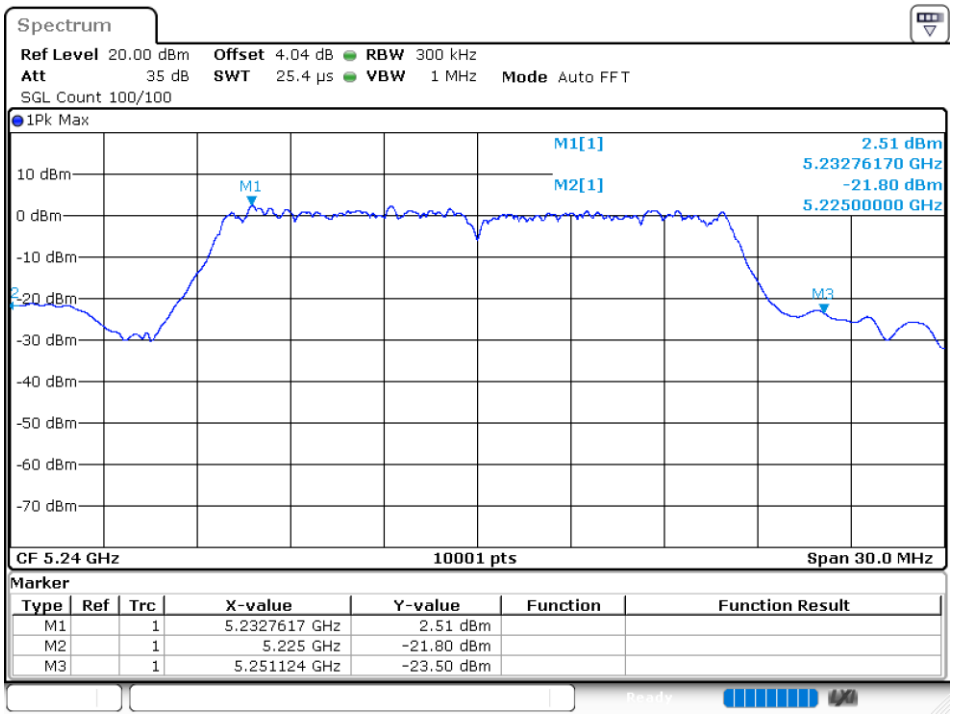
Test Graphs
-26dB Bandwidth NVNT a 5180MHz Ant1



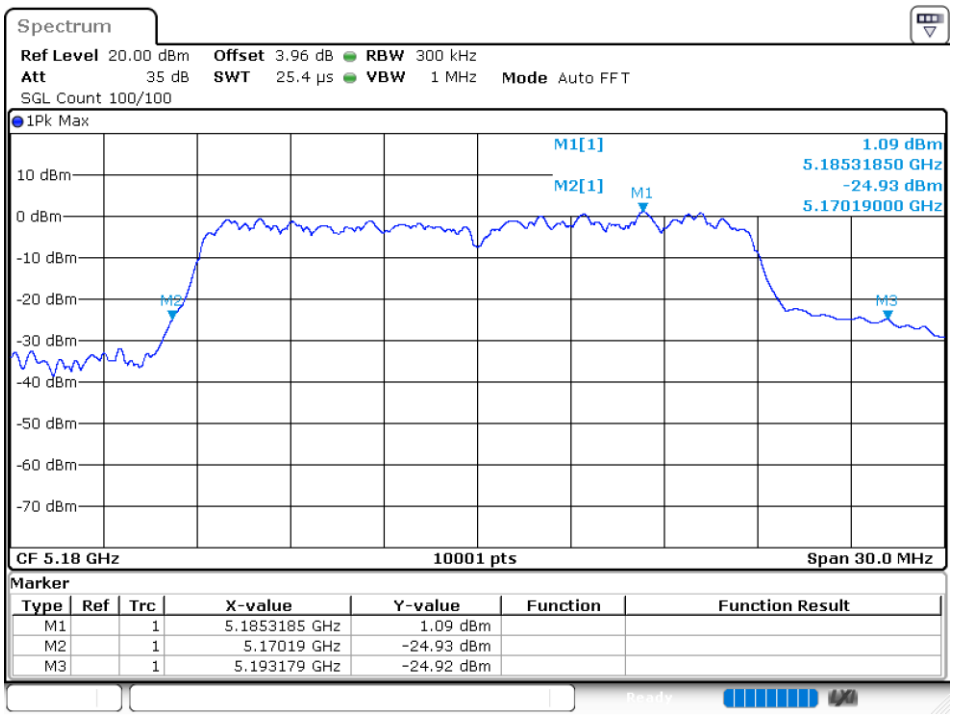
-26dB Bandwidth NVNT a 5200MHz Ant1



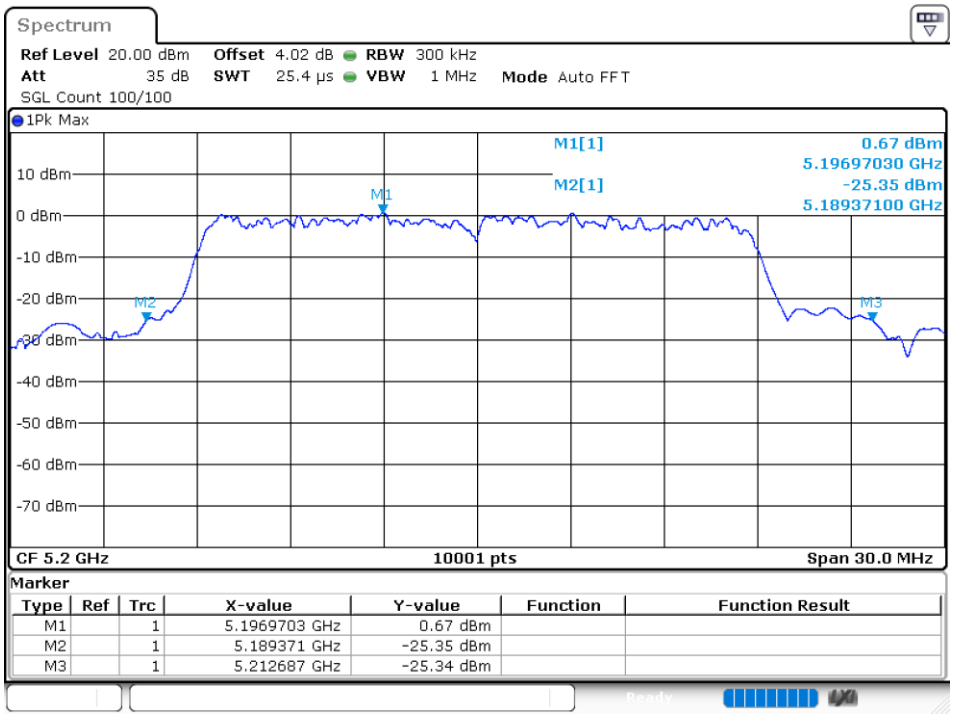
-26dB Bandwidth NVNT a 5240MHz Ant1



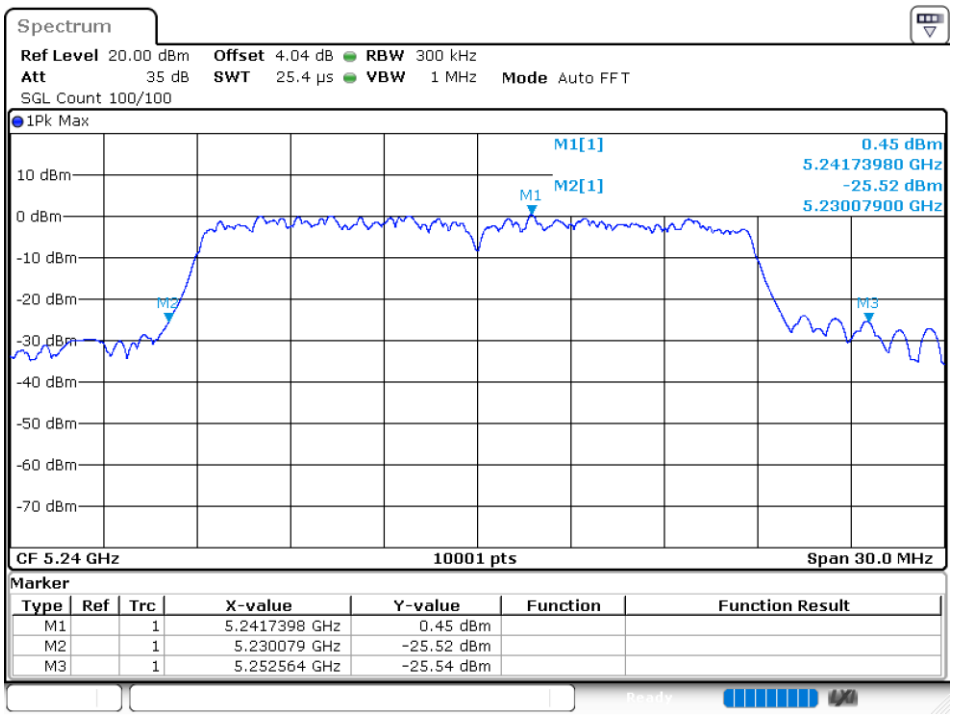
-26dB Bandwidth NVNT n20 5180MHz Ant1



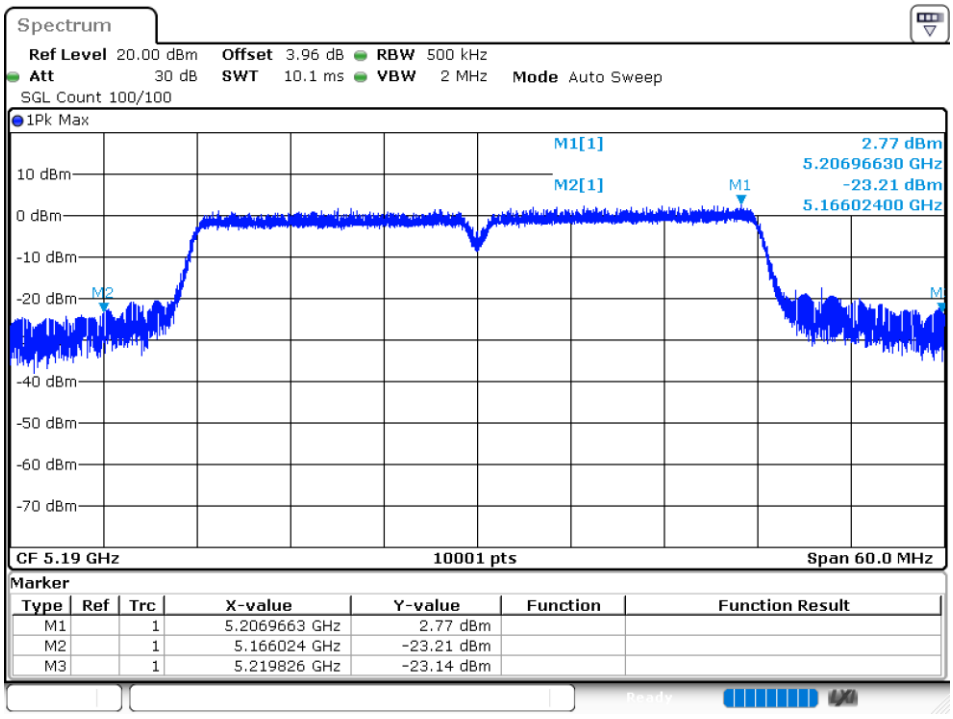
-26dB Bandwidth NVNT n20 5200MHz Ant1



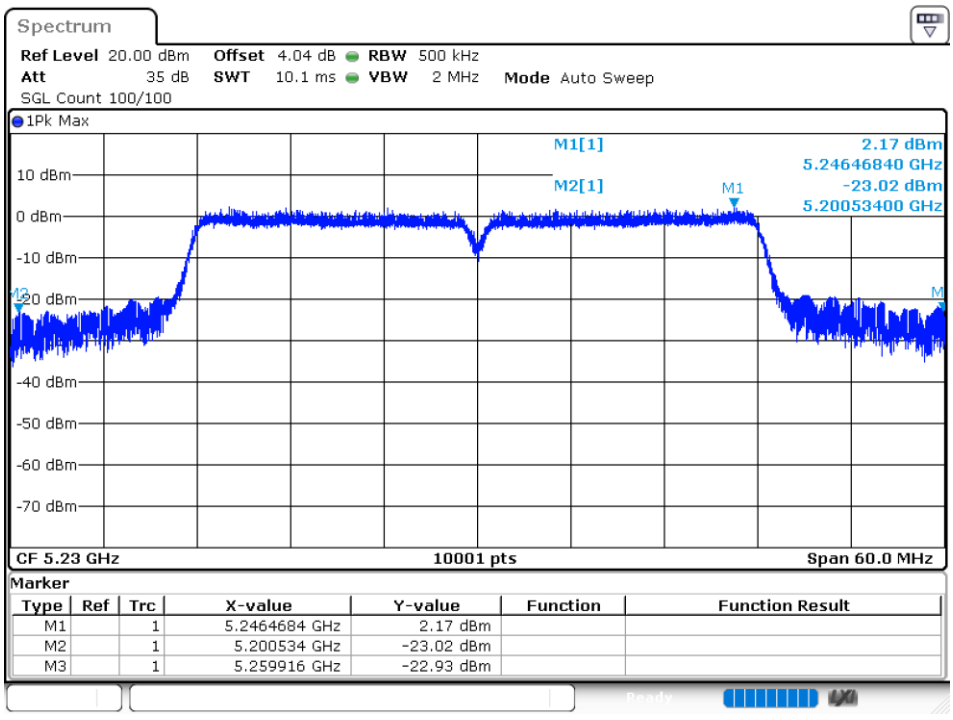
-26dB Bandwidth NVNT n20 5240MHz Ant1



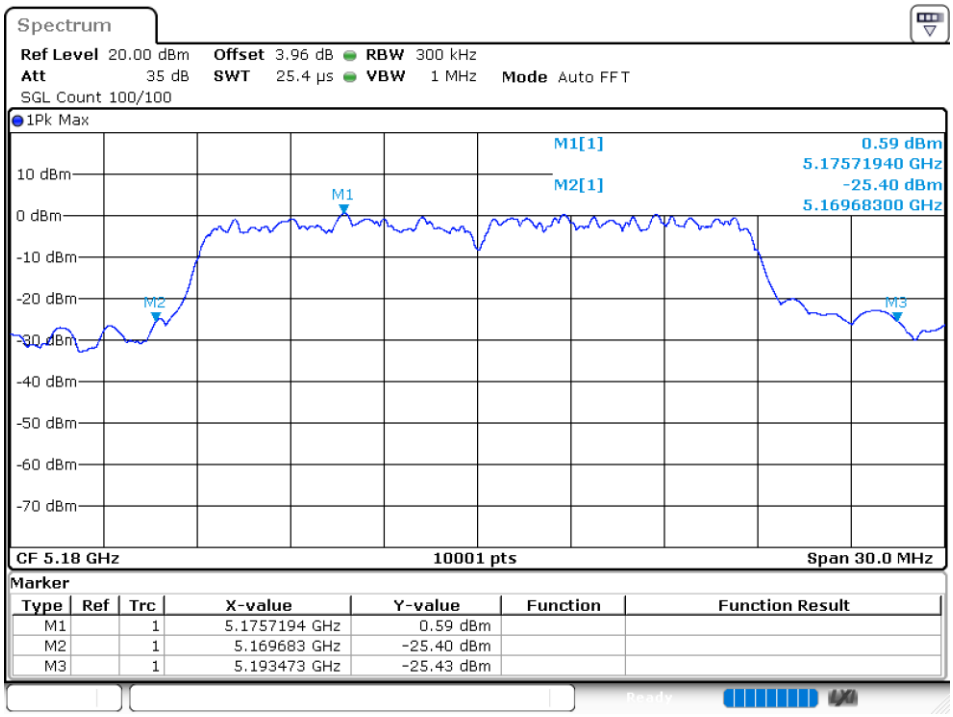
-26dB Bandwidth NVNT n40 5190MHz Ant1



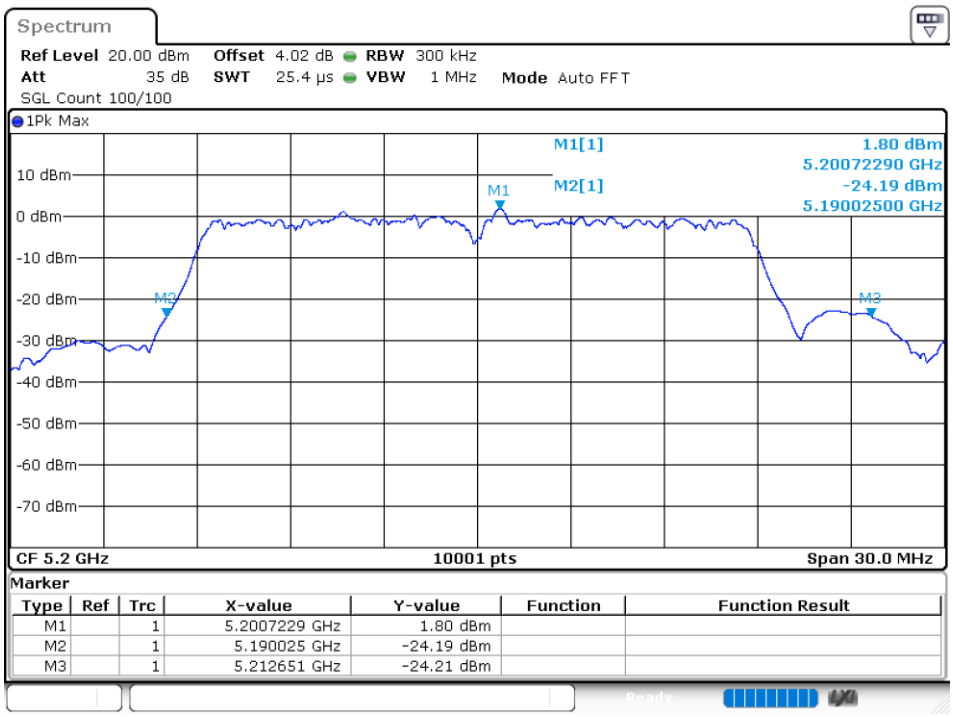
-26dB Bandwidth NVNT n40 5230MHz Ant1



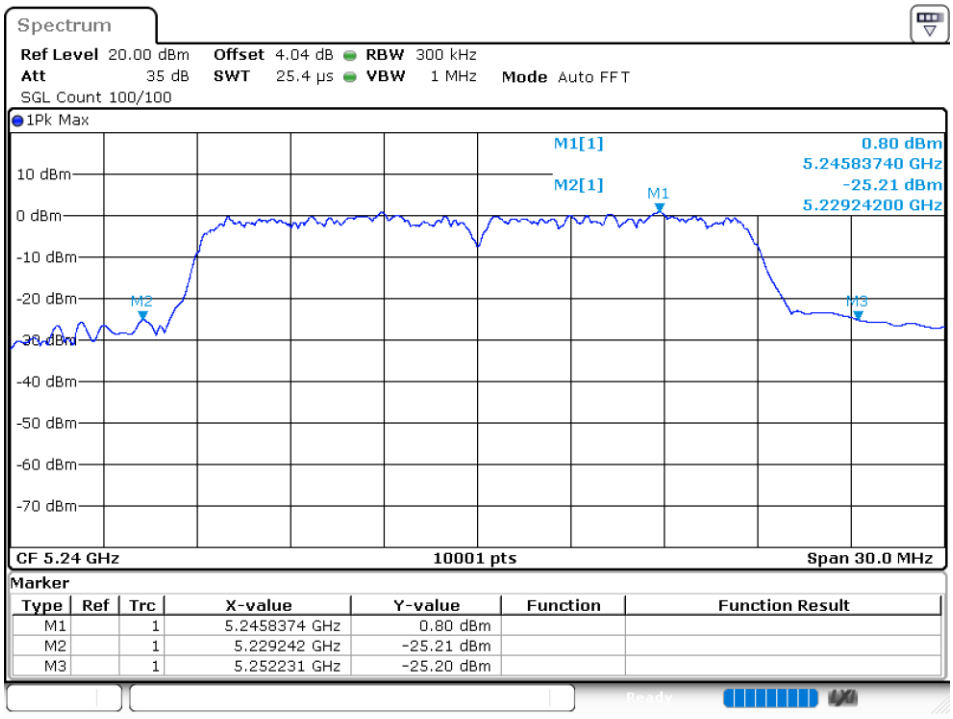
-26dB Bandwidth NVNT ac20 5180MHz Ant1



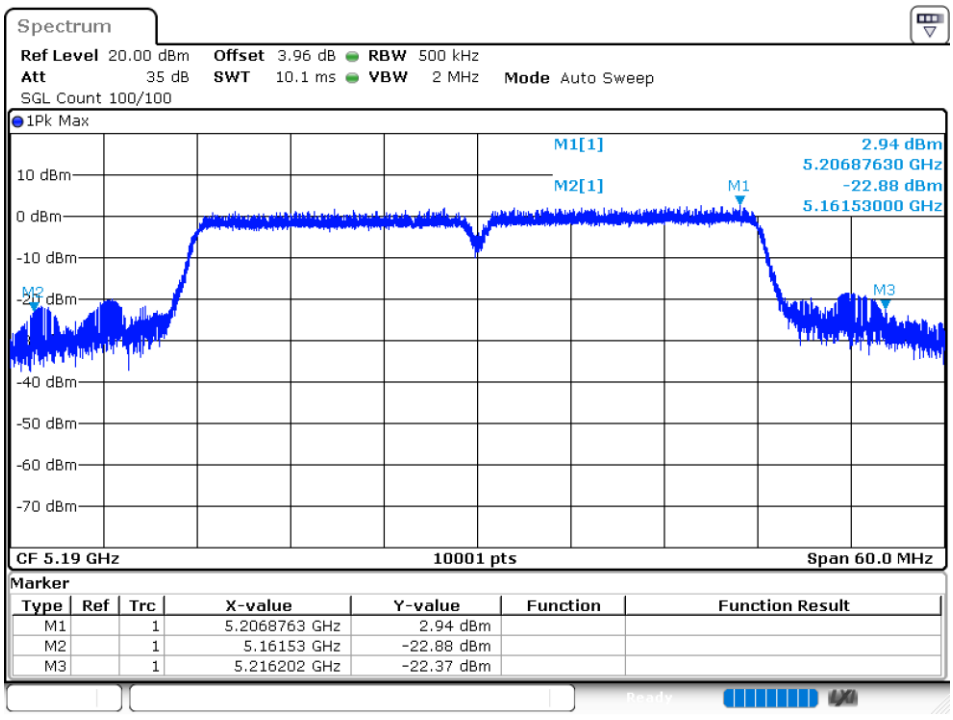
-26dB Bandwidth NVNT ac20 5200MHz Ant1



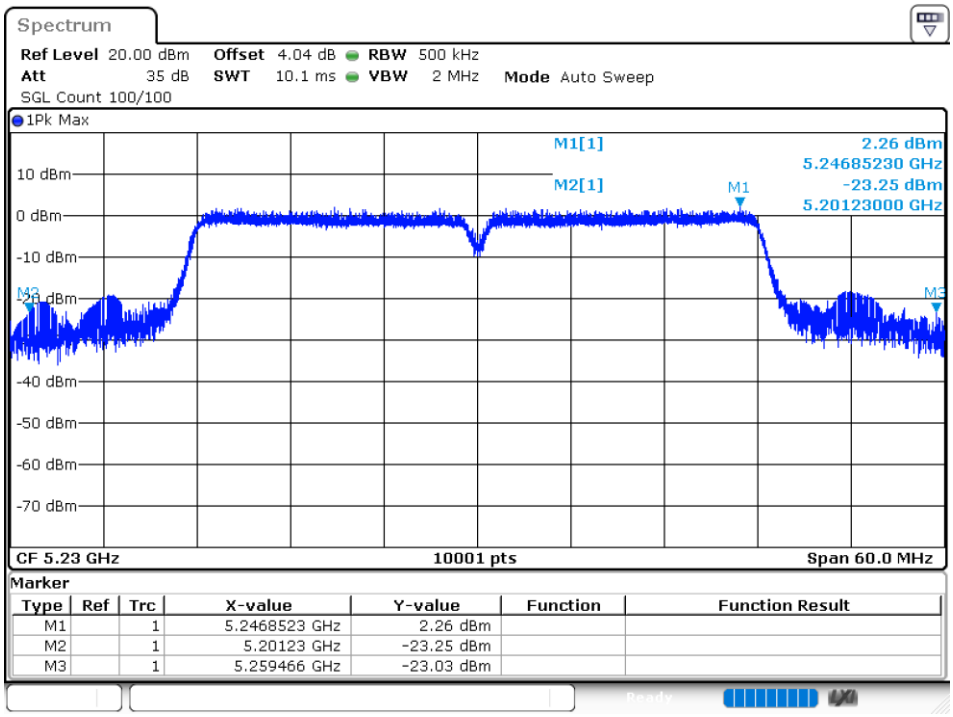
-26dB Bandwidth NVNT ac20 5240MHz Ant1



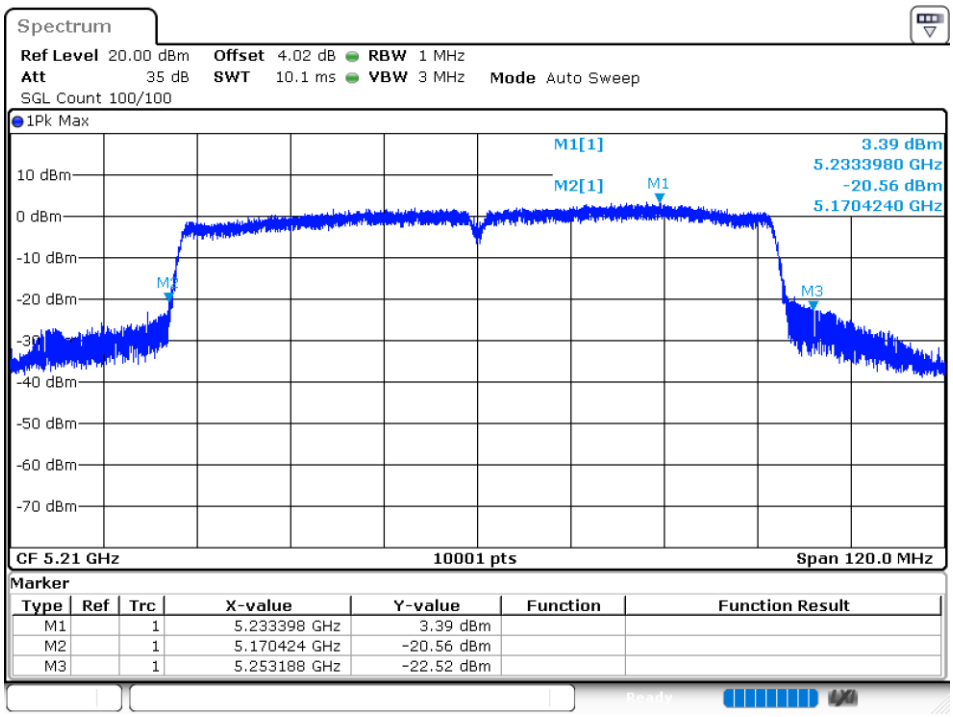
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



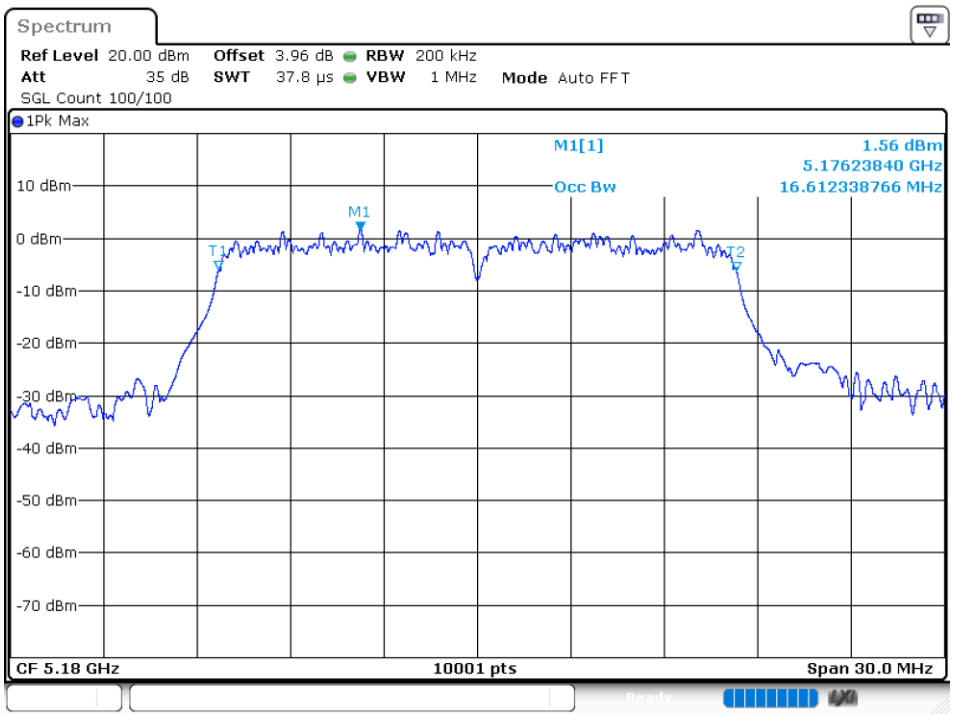
-26dB Bandwidth NVNT ac80 5210MHz Ant1



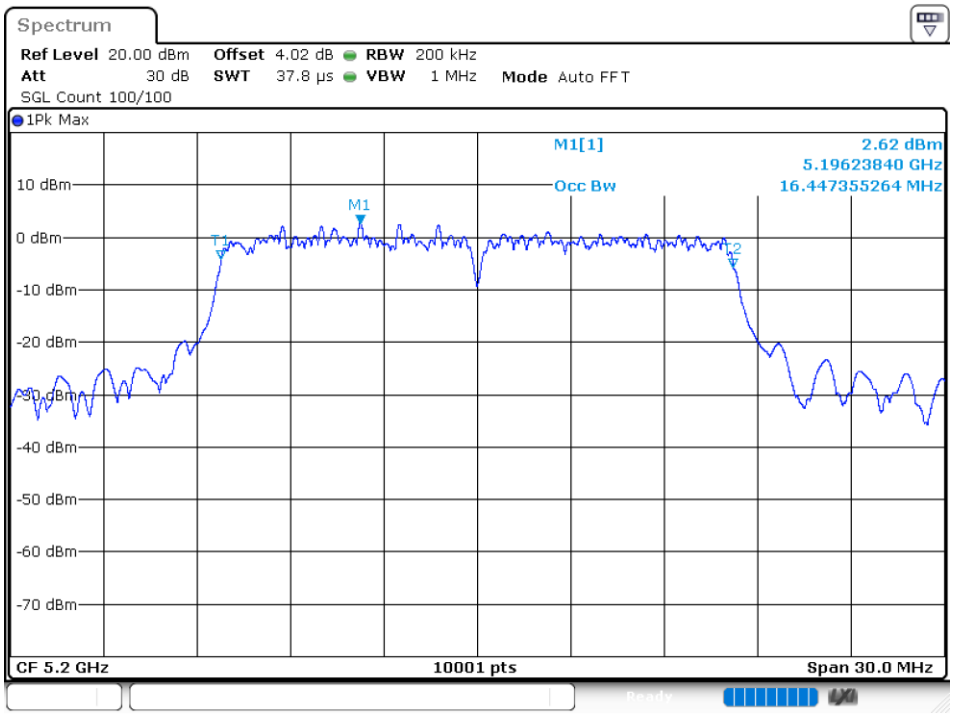
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.612
NVNT	a	5200	Ant1	16.447
NVNT	a	5240	Ant1	16.528
NVNT	n20	5180	Ant1	17.722
NVNT	n20	5200	Ant1	17.641
NVNT	n20	5240	Ant1	17.725
NVNT	n40	5190	Ant1	36.356
NVNT	n40	5230	Ant1	36.458
NVNT	ac20	5180	Ant1	17.629
NVNT	ac20	5200	Ant1	17.611
NVNT	ac20	5240	Ant1	17.599
NVNT	ac40	5190	Ant1	36.344
NVNT	ac40	5230	Ant1	36.44
NVNT	ac80	5210	Ant1	75.256

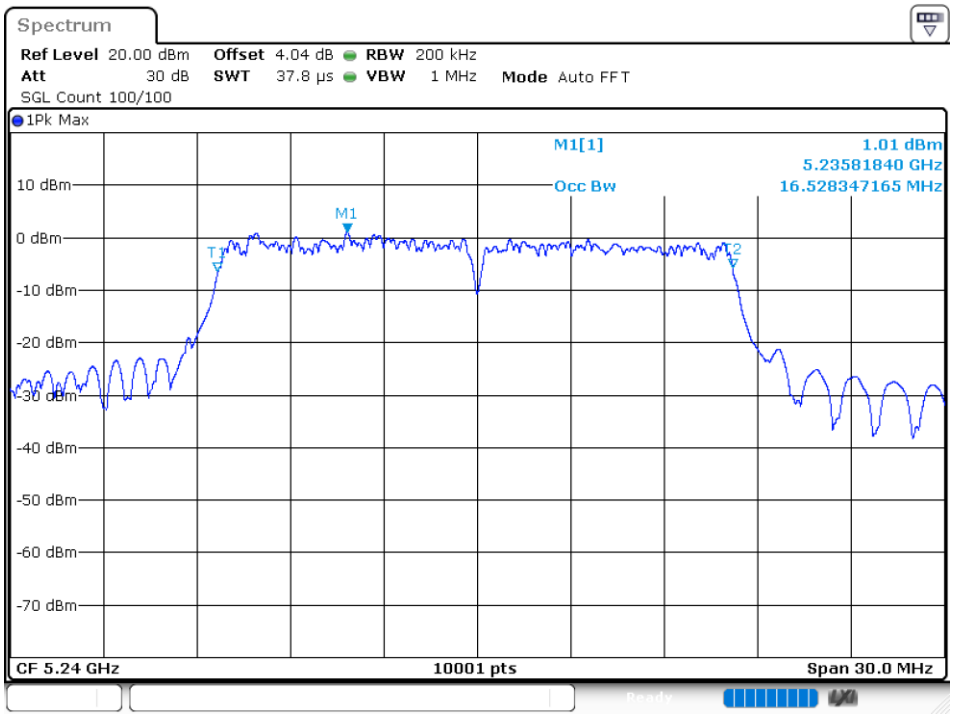
Test Graphs
OBW NVNT a 5180MHz Ant1



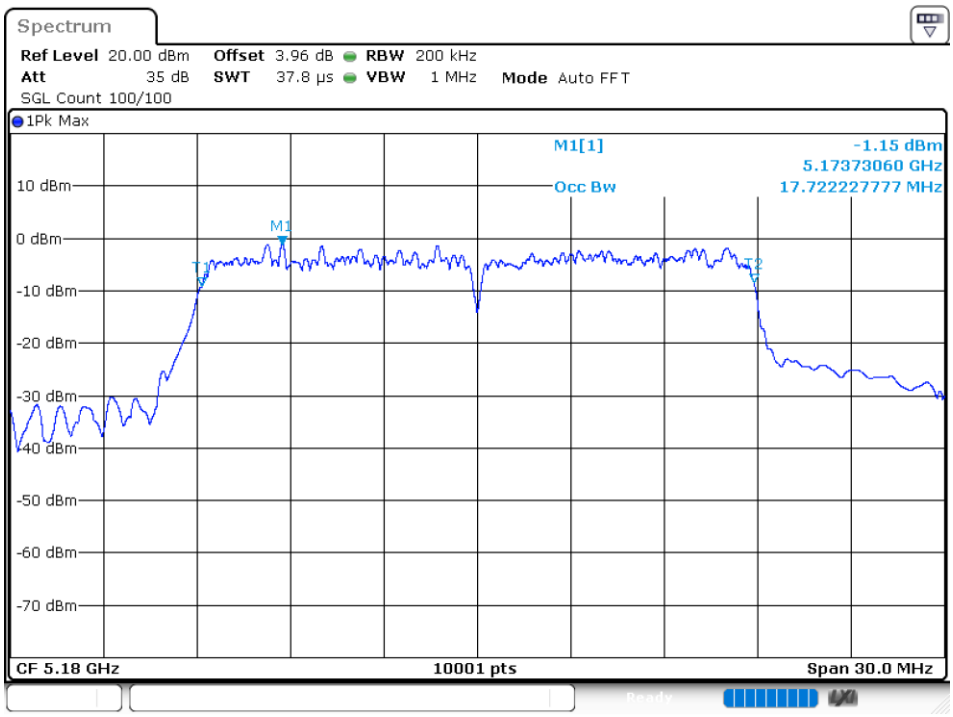
OBW NVNT a 5200MHz Ant1



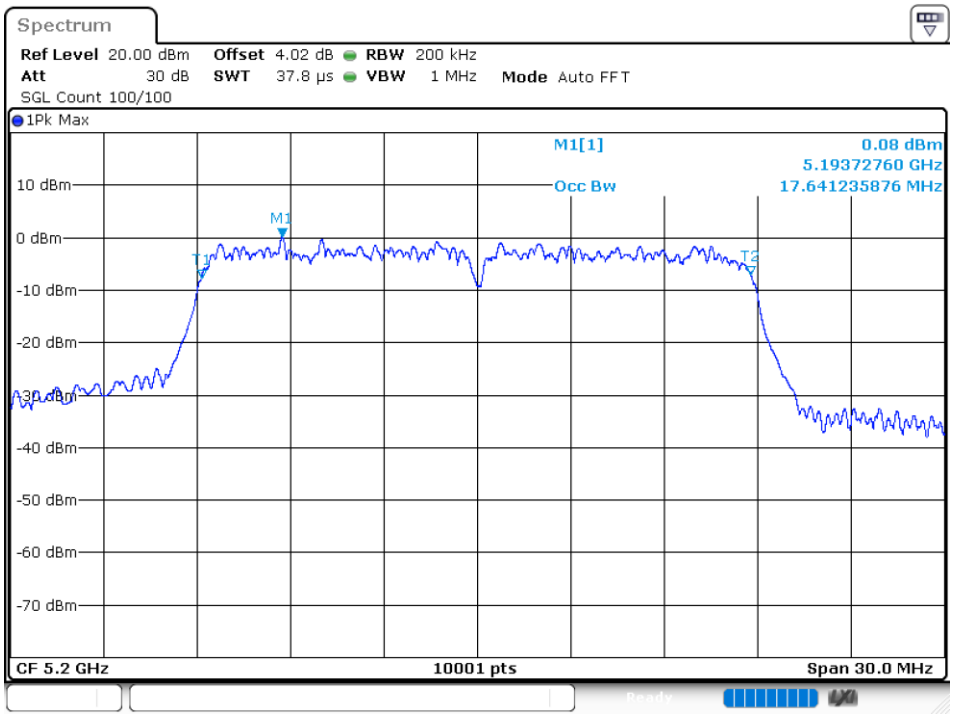
OBW NVNT a 5240MHz Ant1



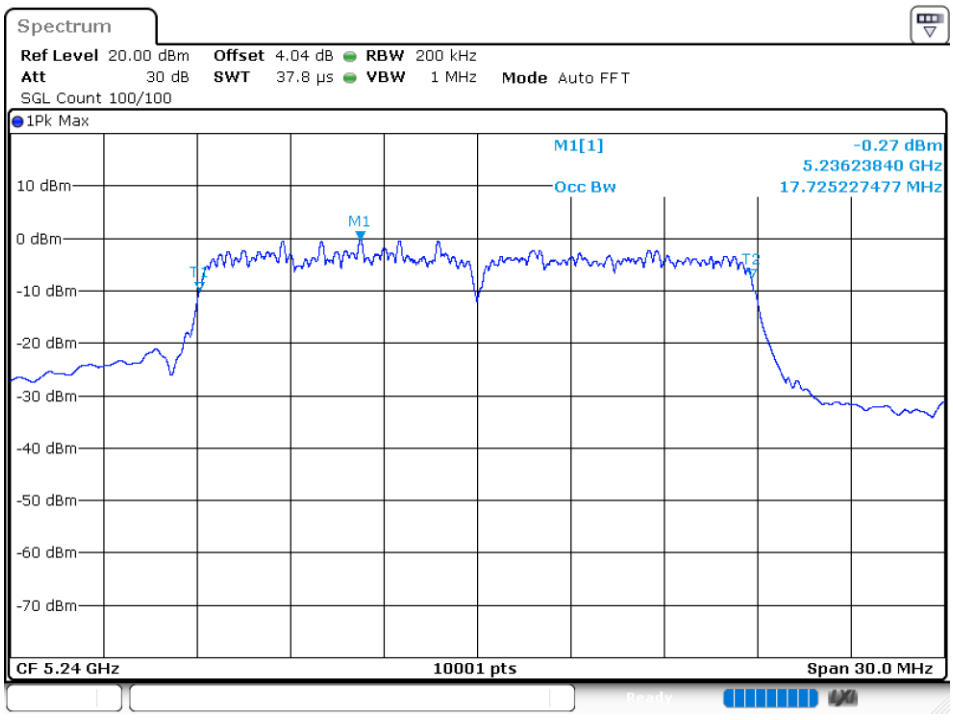
OBW NVNT n20 5180MHz Ant1



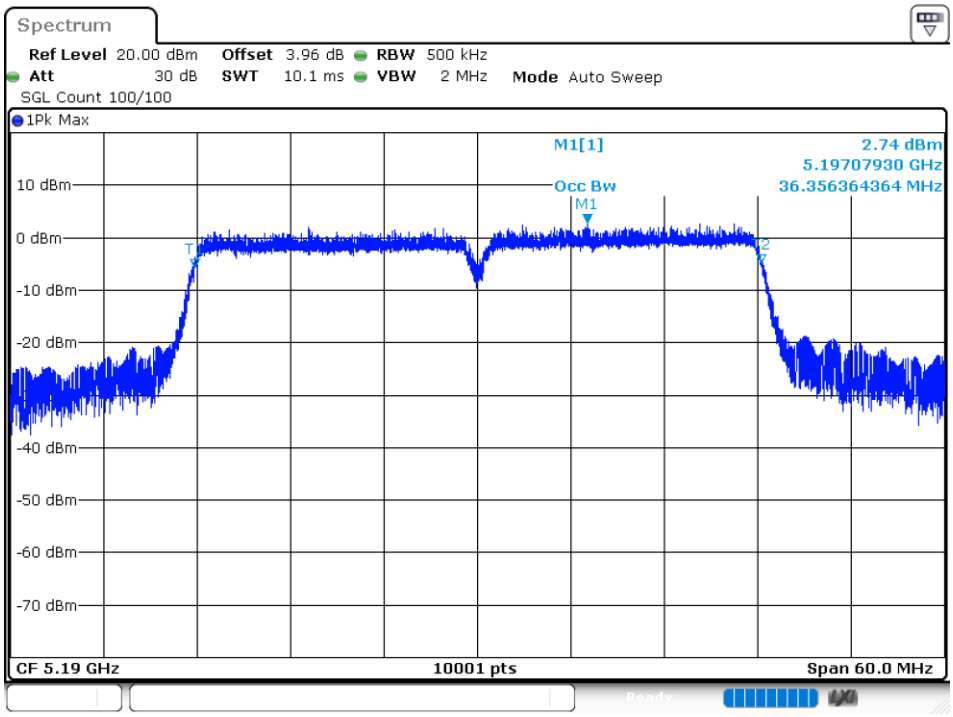
OBW NVNT n20 5200MHz Ant1



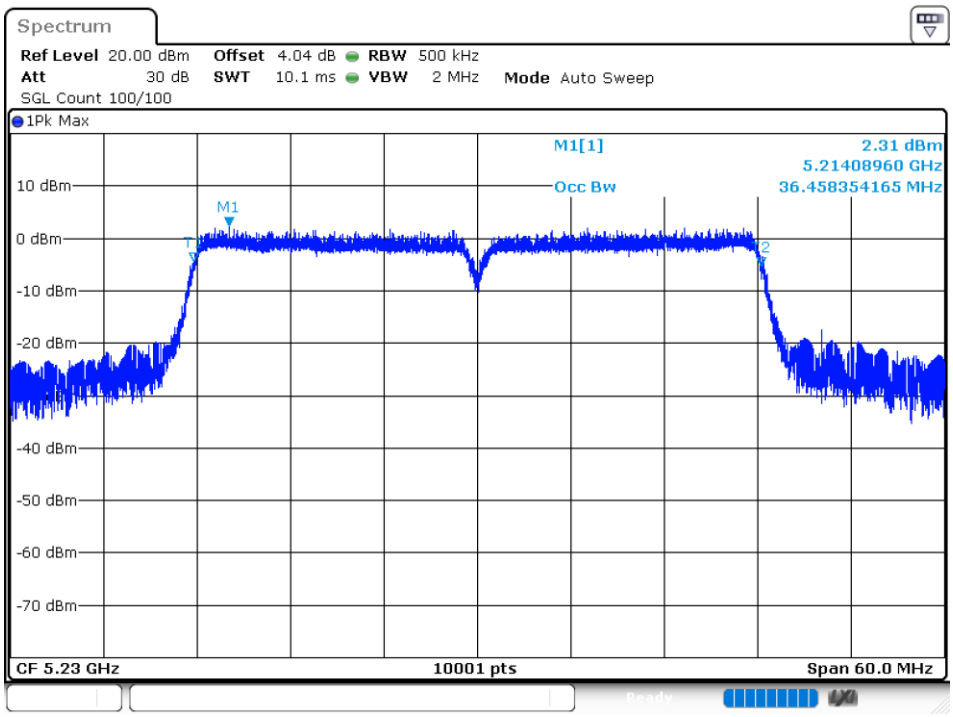
OBW NVNT n20 5240MHz Ant1



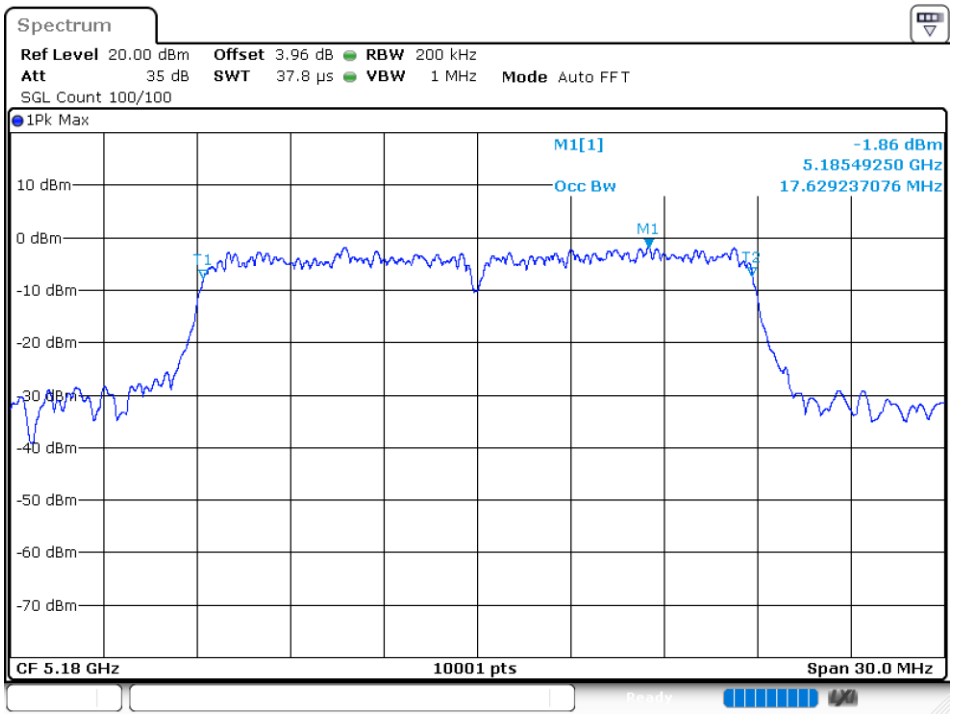
OBW NVNT n40 5190MHz Ant1



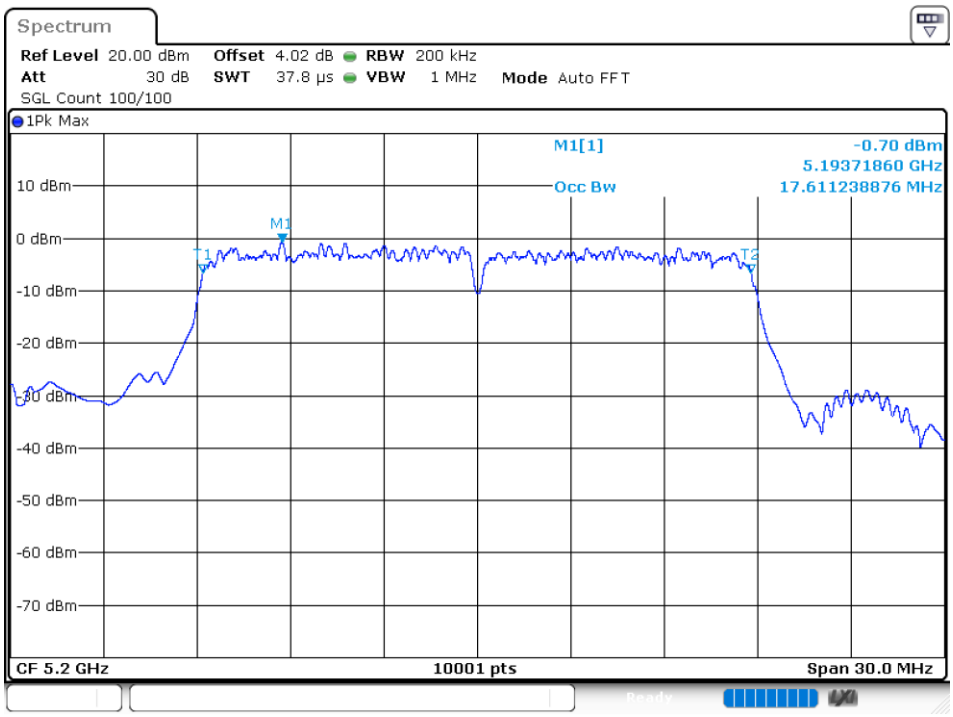
OBW NVNT n40 5230MHz Ant1



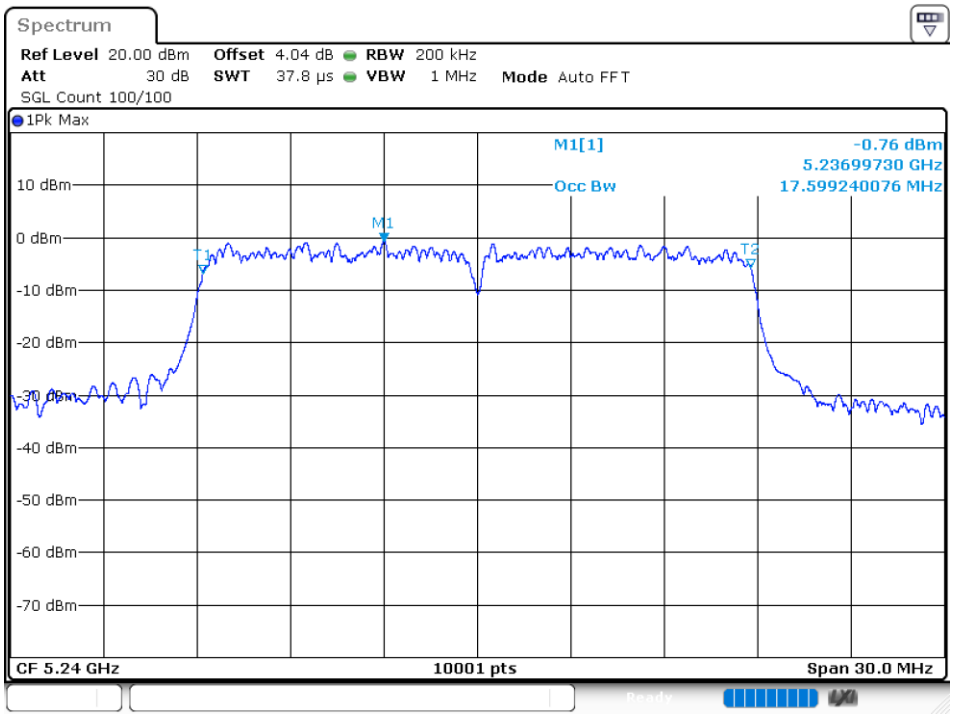
OBW NVNT ac20 5180MHz Ant1



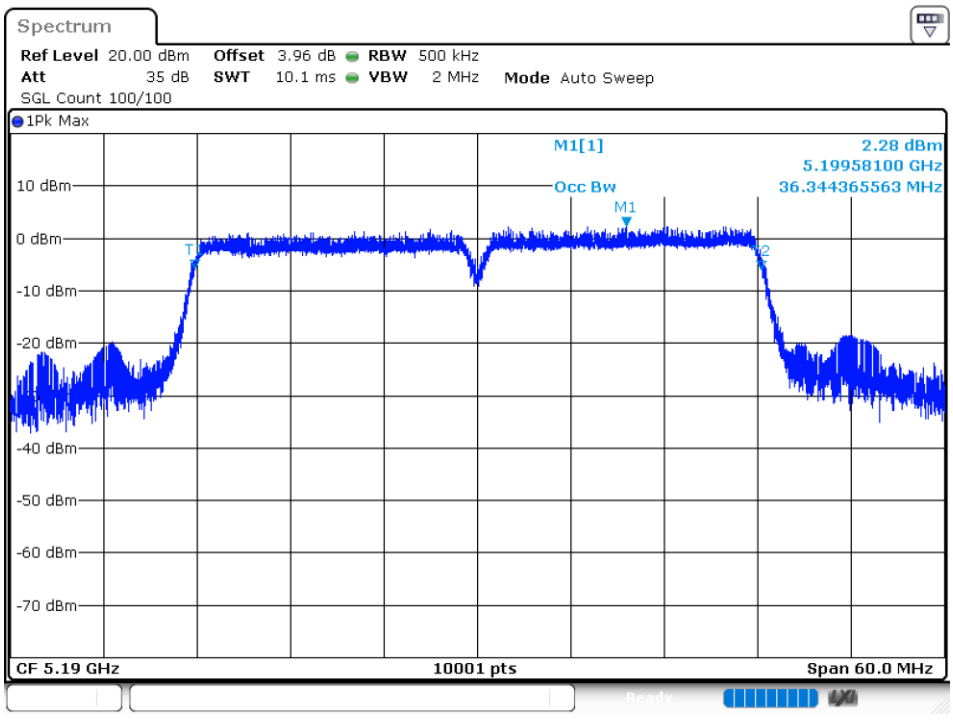
OBW NVNT ac20 5200MHz Ant1



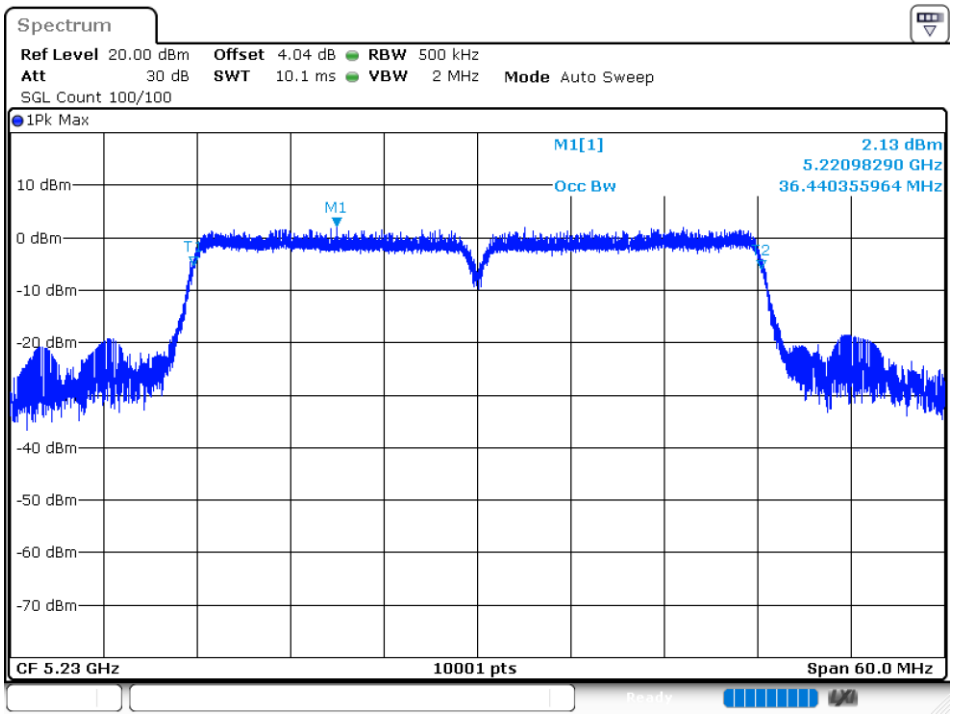
OBW NVNT ac20 5240MHz Ant1



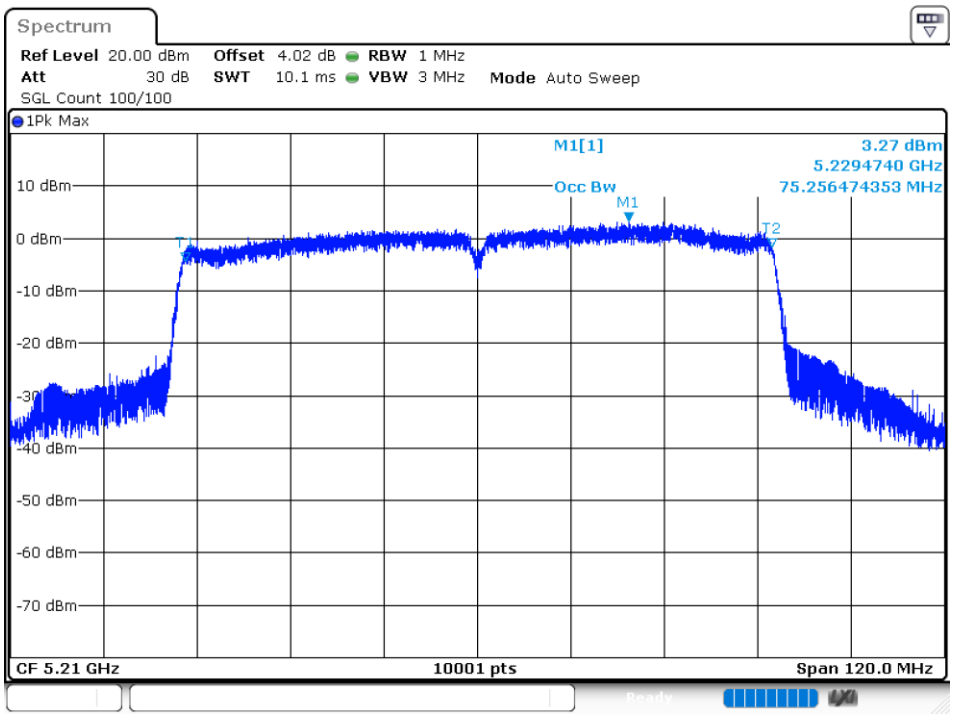
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



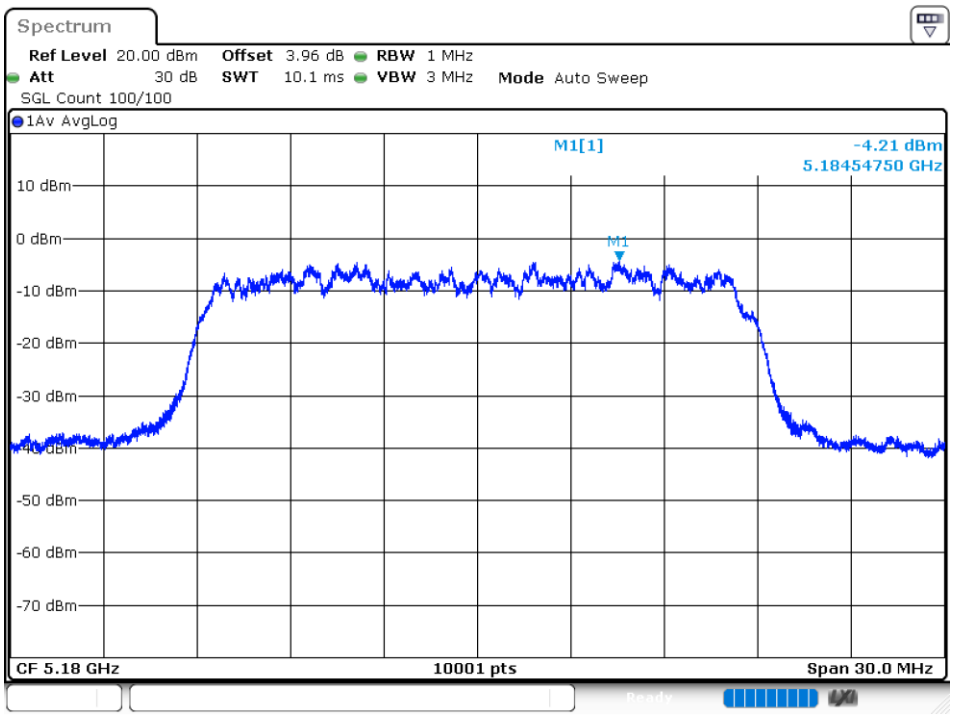
OBW NVNT ac80 5210MHz Ant1



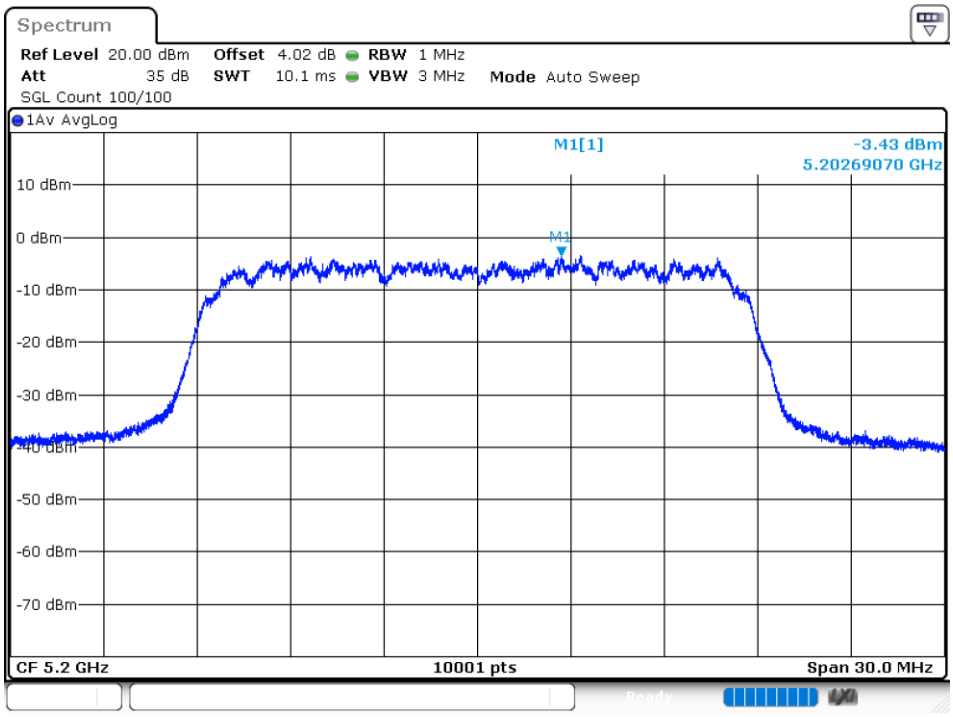
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.21	0.54	-3.67	11	Pass
NVNT	a	5200	Ant1	-3.43	0.53	-2.9	11	Pass
NVNT	a	5240	Ant1	-4.31	0.52	-3.79	11	Pass
NVNT	n20	5180	Ant1	-5.93	0.71	-5.22	11	Pass
NVNT	n20	5200	Ant1	-5.46	0.58	-4.88	11	Pass
NVNT	n20	5240	Ant1	-5.5	0.71	-4.79	11	Pass
NVNT	n40	5190	Ant1	-13.96	1.15	-12.81	11	Pass
NVNT	n40	5230	Ant1	-12.27	1.15	-11.12	11	Pass
NVNT	ac20	5180	Ant1	-6.13	0.59	-5.54	11	Pass
NVNT	ac20	5200	Ant1	-5.77	0.59	-5.18	11	Pass
NVNT	ac20	5240	Ant1	-5.58	0.59	-4.99	11	Pass
NVNT	ac40	5190	Ant1	-13.29	1.34	-11.95	11	Pass
NVNT	ac40	5230	Ant1	-14.09	1.14	-12.95	11	Pass
NVNT	ac80	5210	Ant1	-18.07	1.94	-16.13	11	Pass

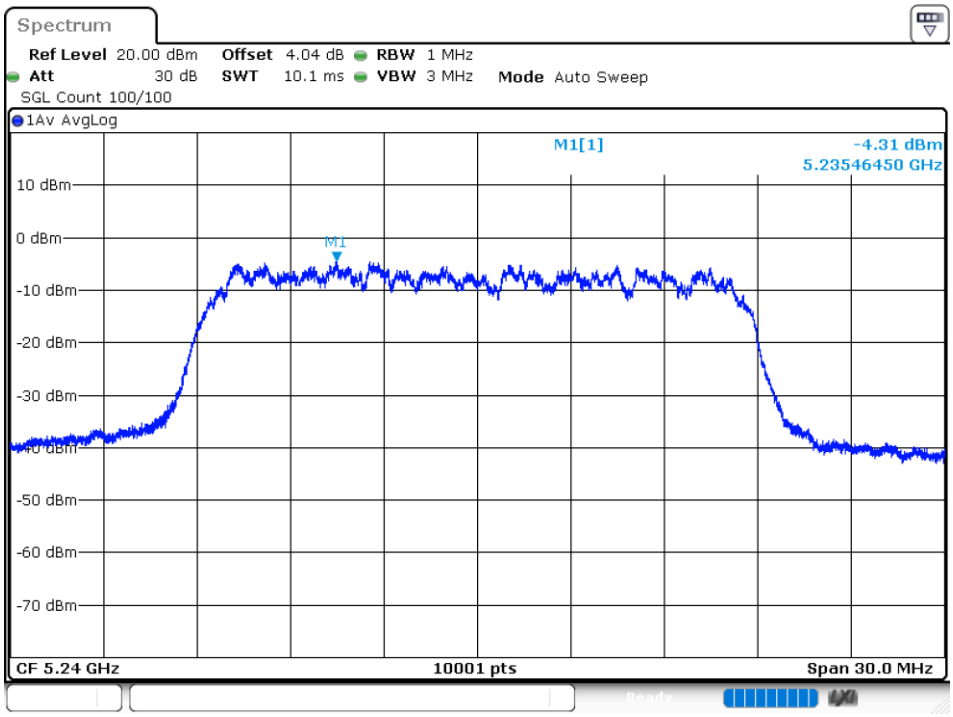
Test Graphs
PSD NVNT a 5180MHz Ant1



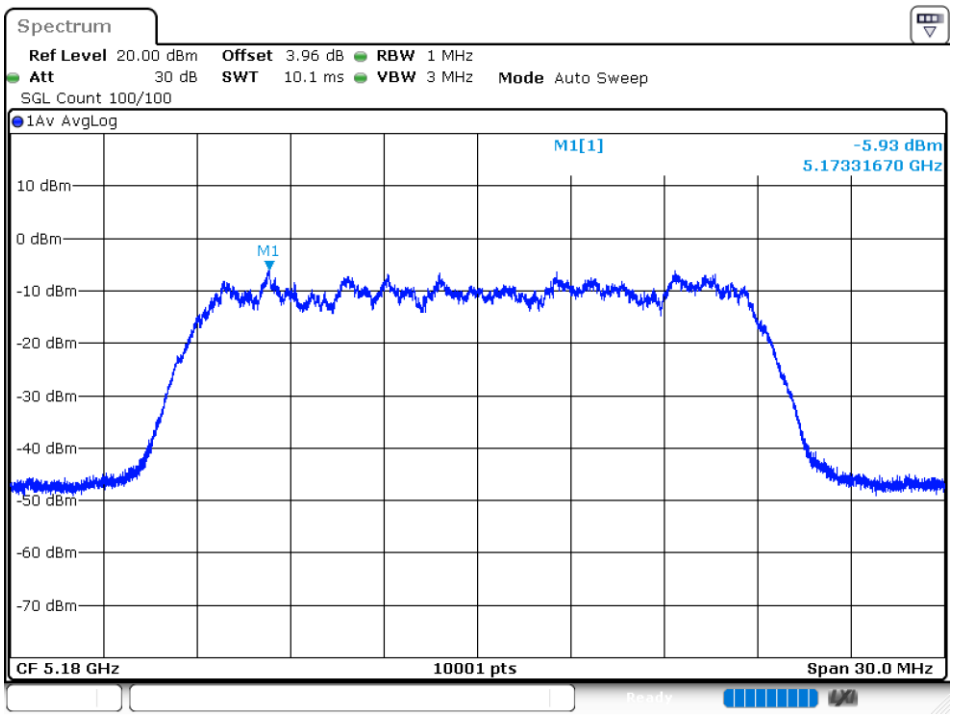
PSD NVNT a 5200MHz Ant1



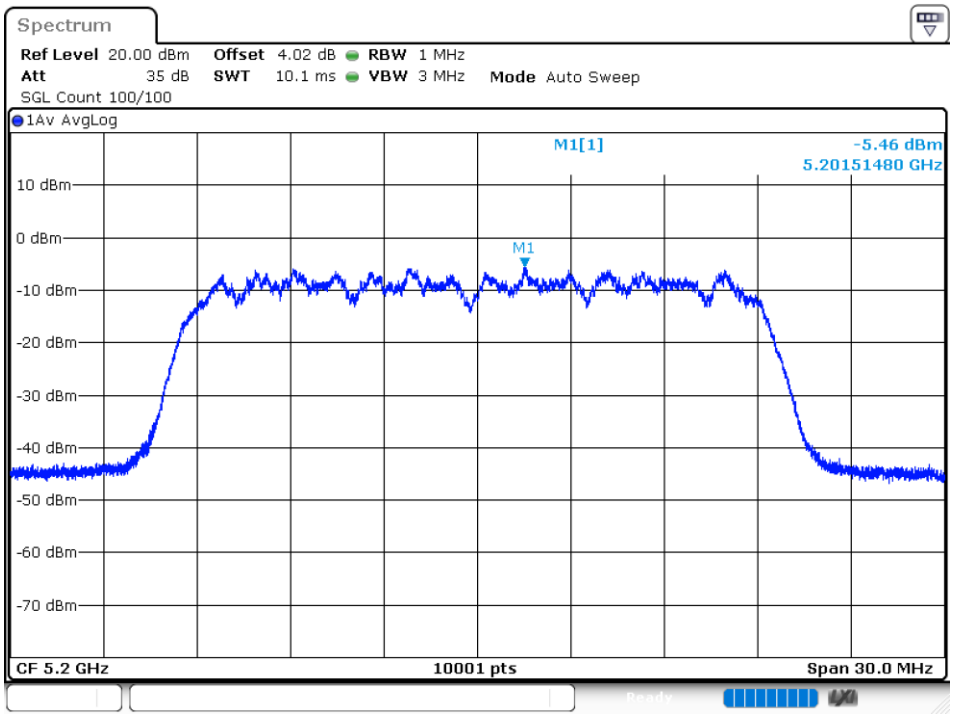
PSD NVNT a 5240MHz Ant1



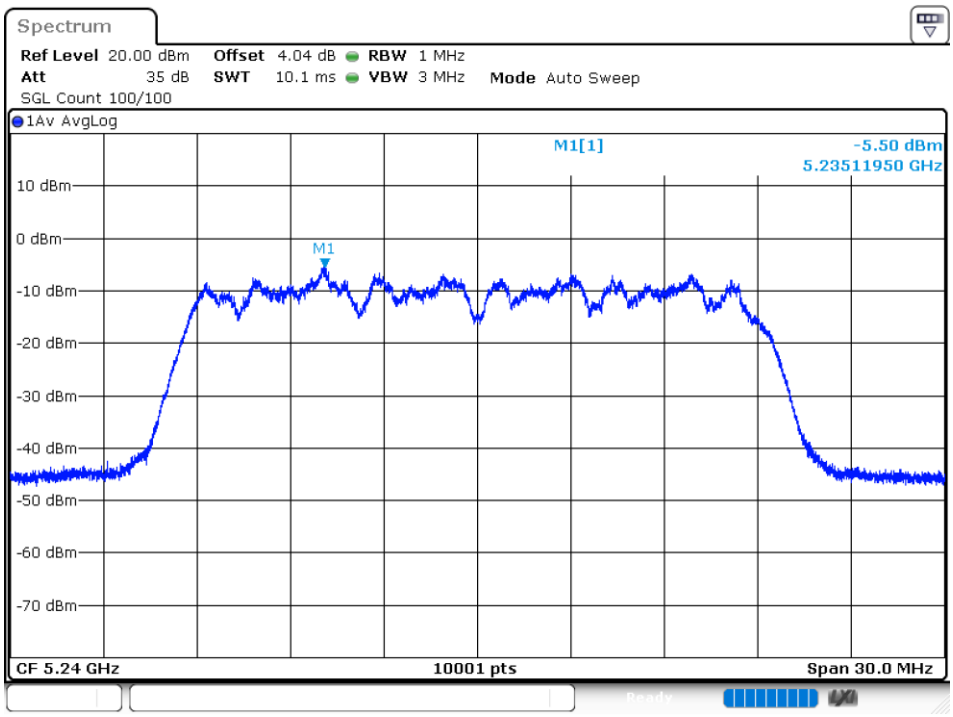
PSD NVNT n20 5180MHz Ant1



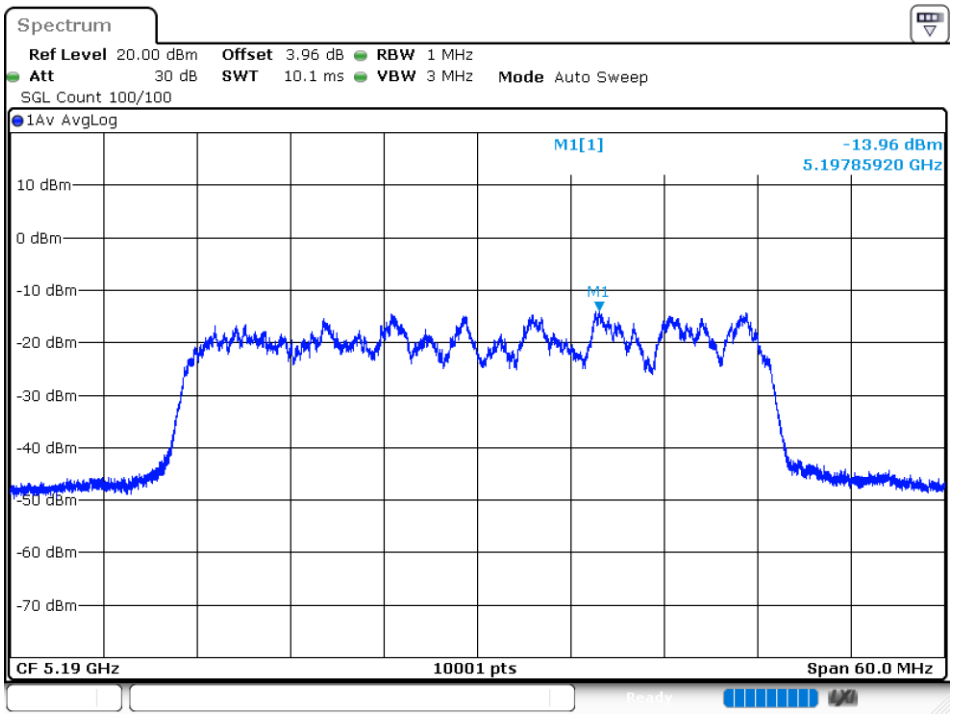
PSD NVNT n20 5200MHz Ant1



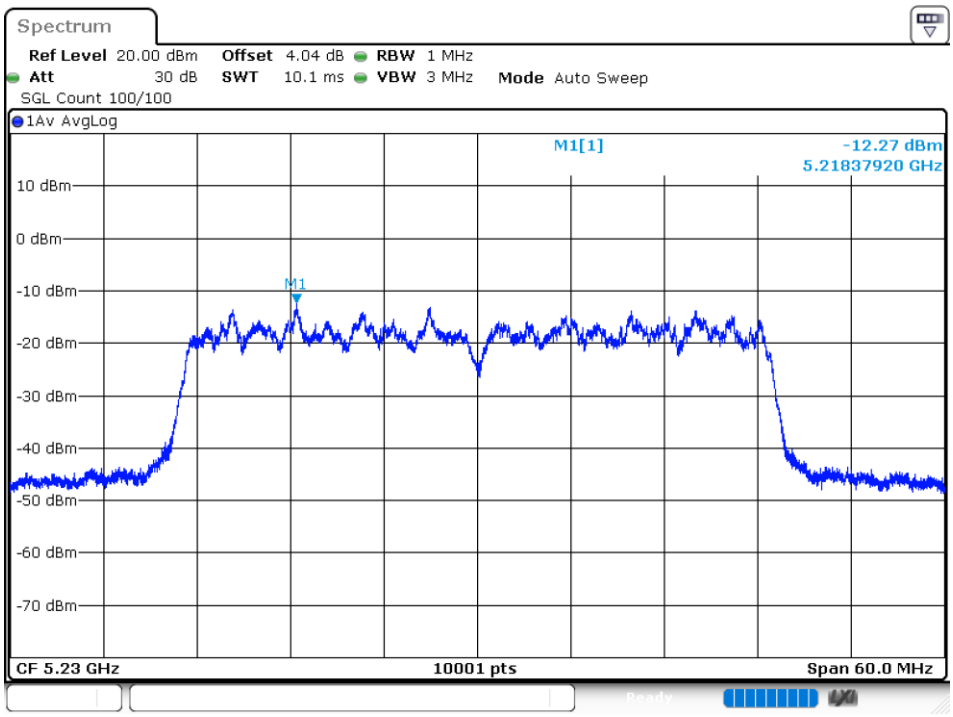
PSD NVNT n20 5240MHz Ant1



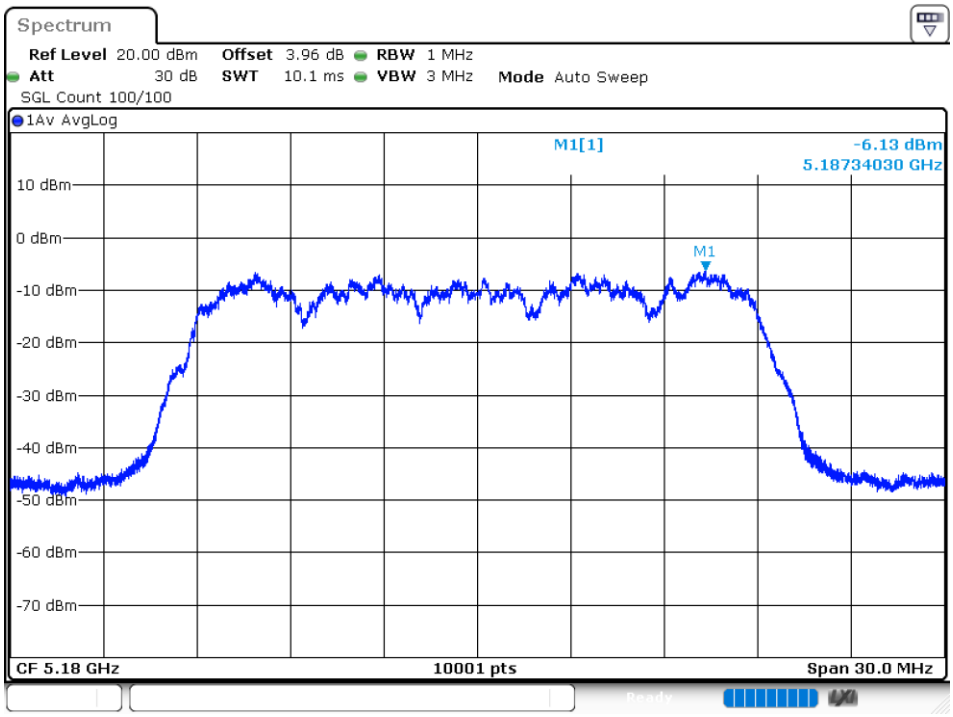
PSD NVNT n40 5190MHz Ant1



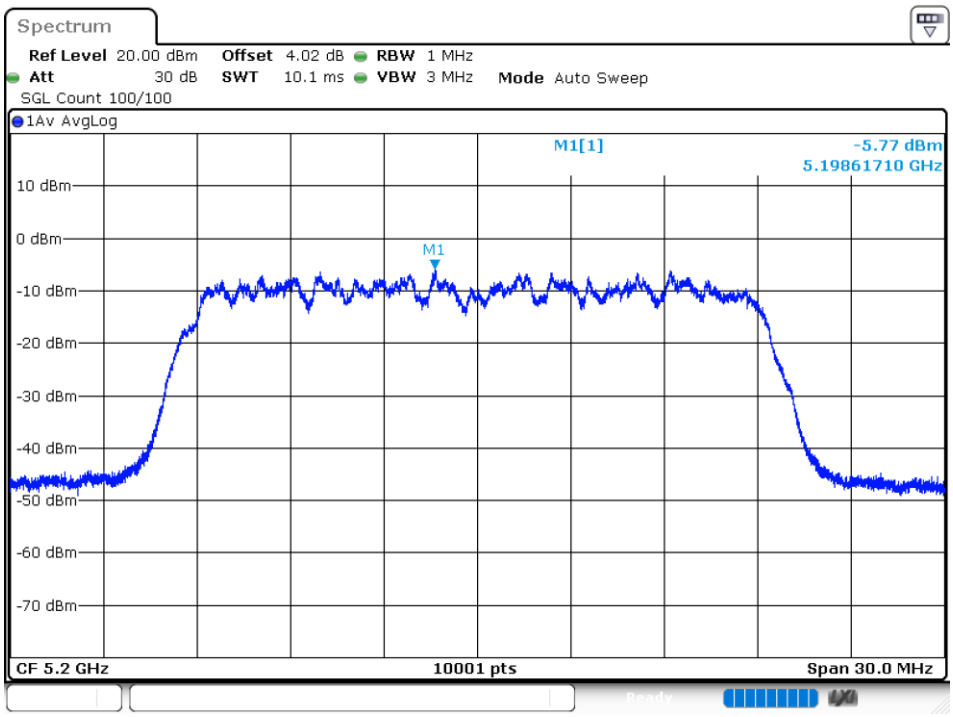
PSD NVNT n40 5230MHz Ant1



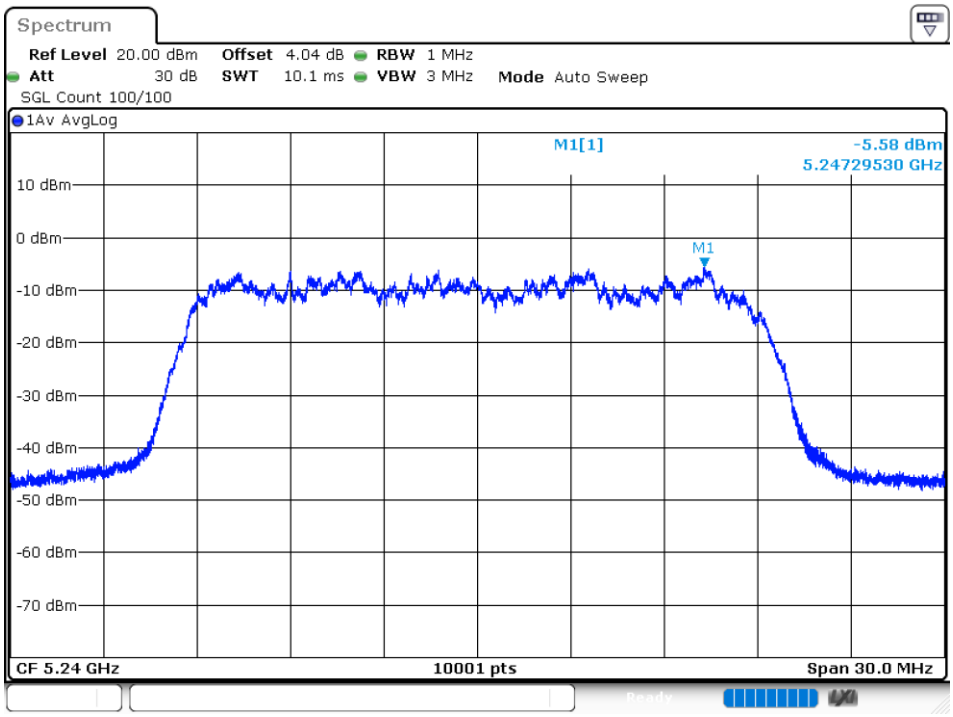
PSD NVNT ac20 5180MHz Ant1



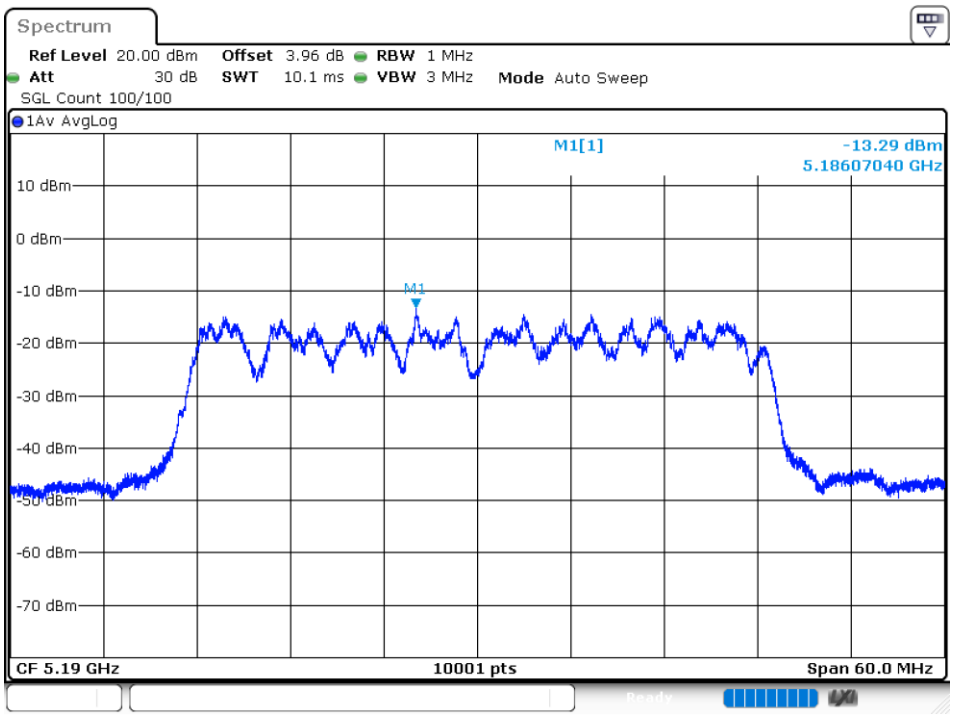
PSD NVNT ac20 5200MHz Ant1



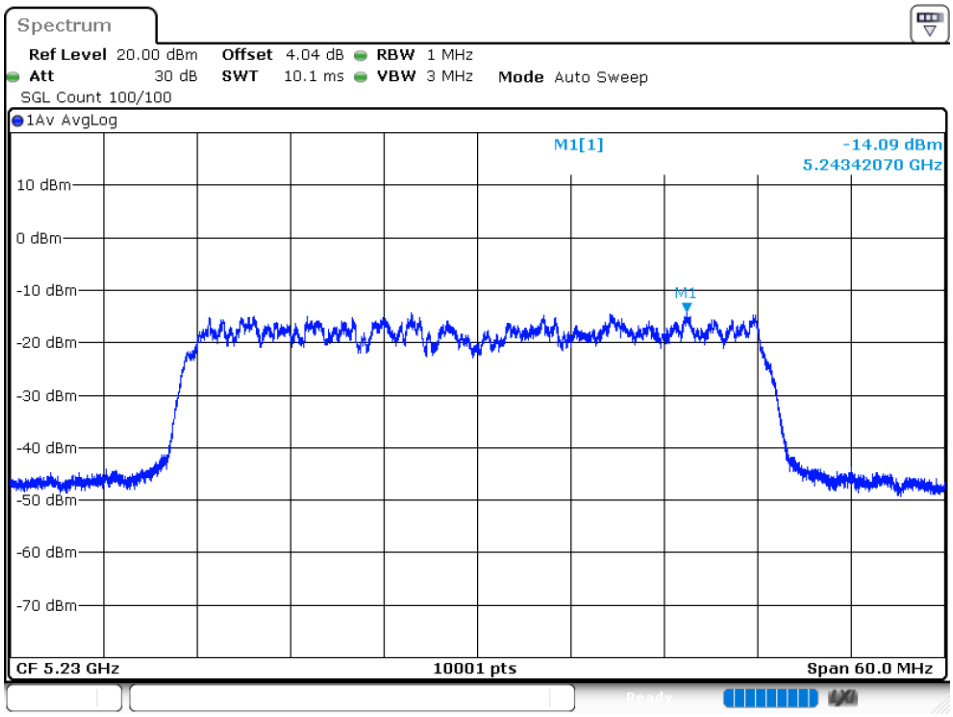
PSD NVNT ac20 5240MHz Ant1



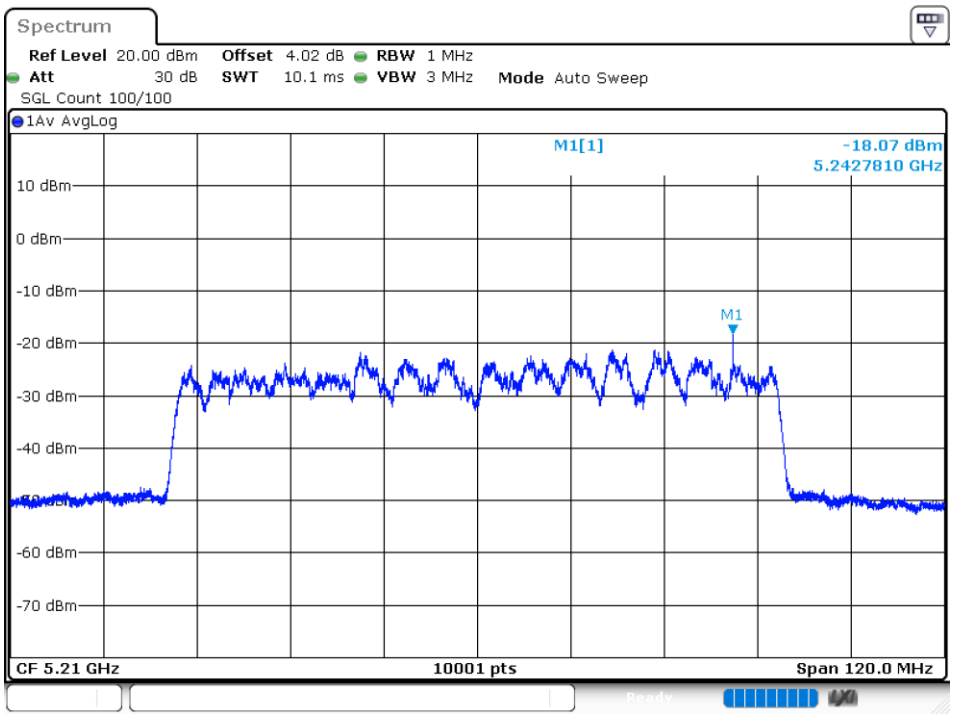
PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



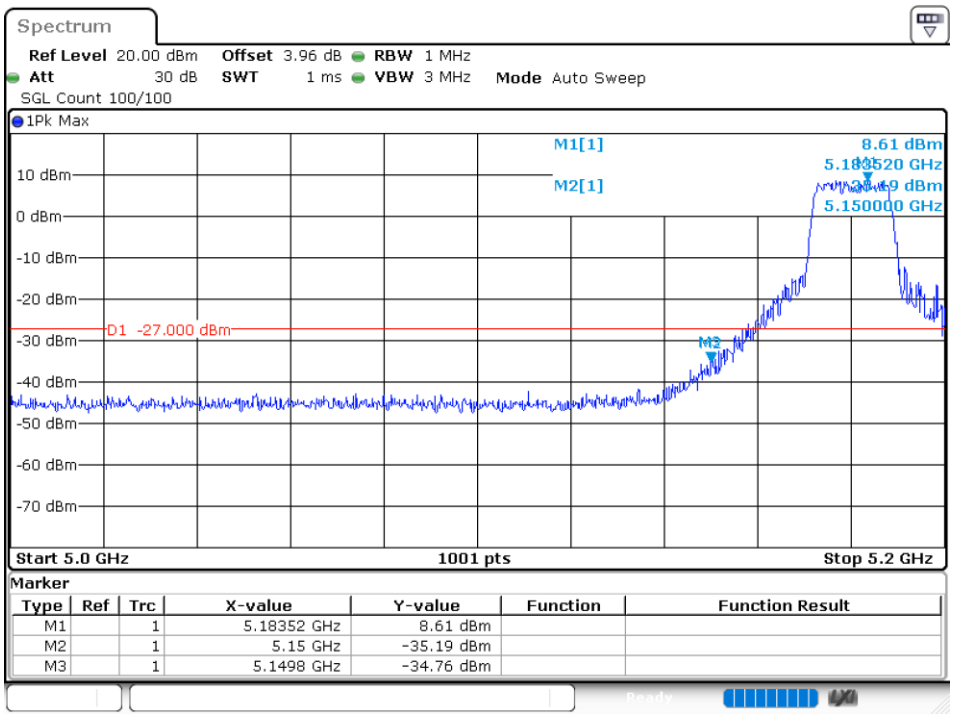
PSD NVNT ac80 5210MHz Ant1



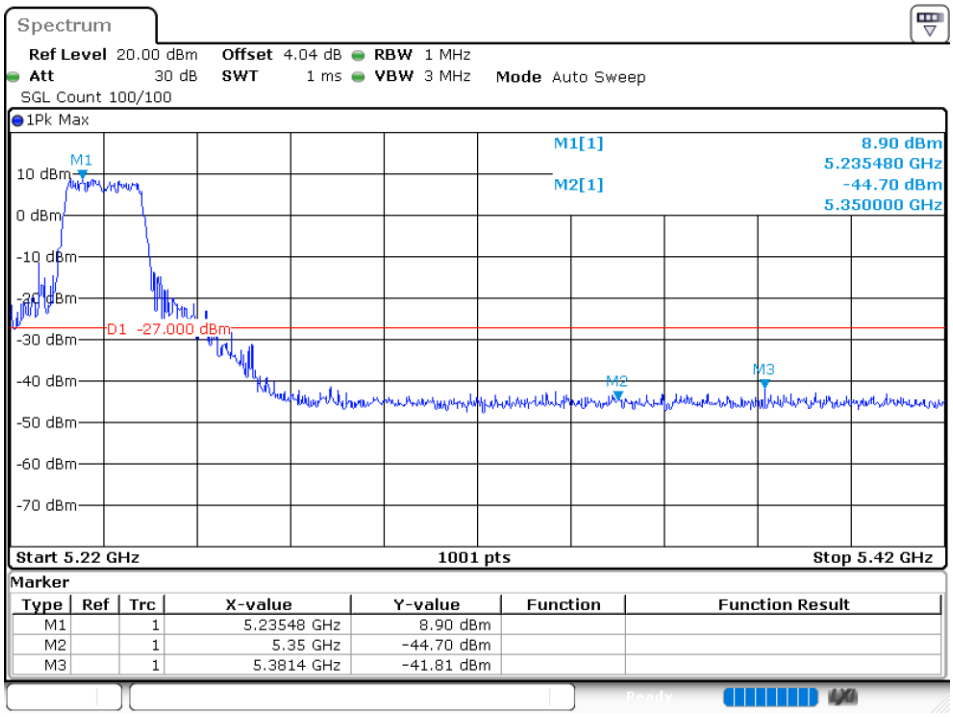
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-34.75	-27	Pass
NVNT	a	5240	Ant1	-41.8	-27	Pass
NVNT	n20	5180	Ant1	-37.48	-27	Pass
NVNT	n20	5240	Ant1	-42.13	-27	Pass
NVNT	n40	5190	Ant1	-37.3	-27	Pass
NVNT	n40	5230	Ant1	-42.79	-27	Pass
NVNT	ac20	5180	Ant1	-36.93	-27	Pass
NVNT	ac20	5240	Ant1	-42.1	-27	Pass
NVNT	ac40	5190	Ant1	-34.99	-27	Pass
NVNT	ac40	5230	Ant1	-43	-27	Pass
NVNT	ac80	5210	Ant1	-43.08	-27	Pass
NVNT	ac80	5210	Ant1	-34.12	-27	Pass

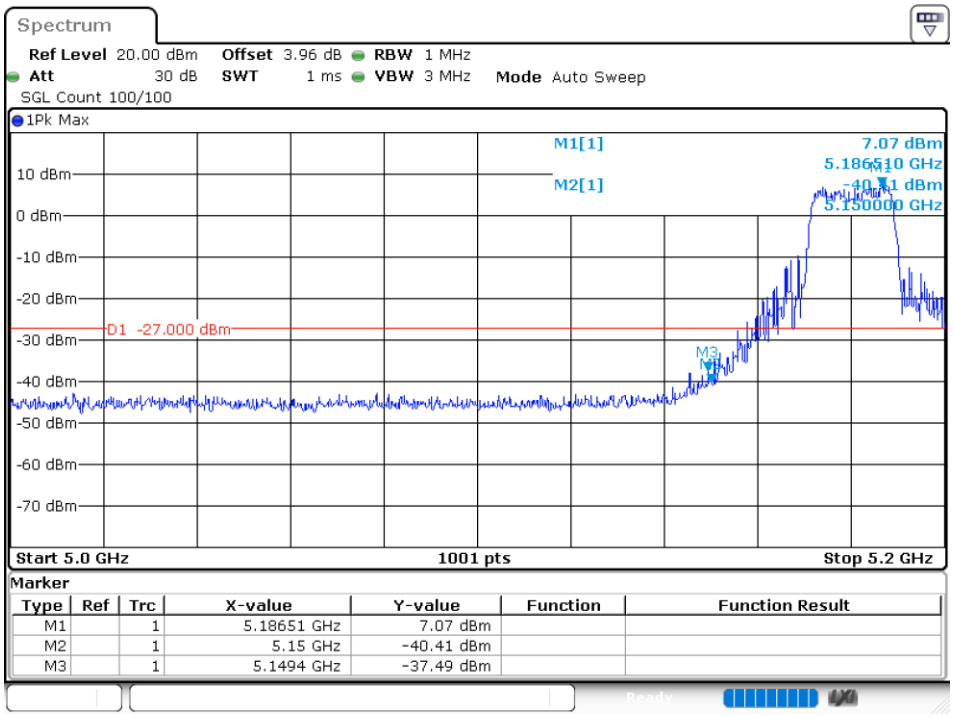
Test Graphs
Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1

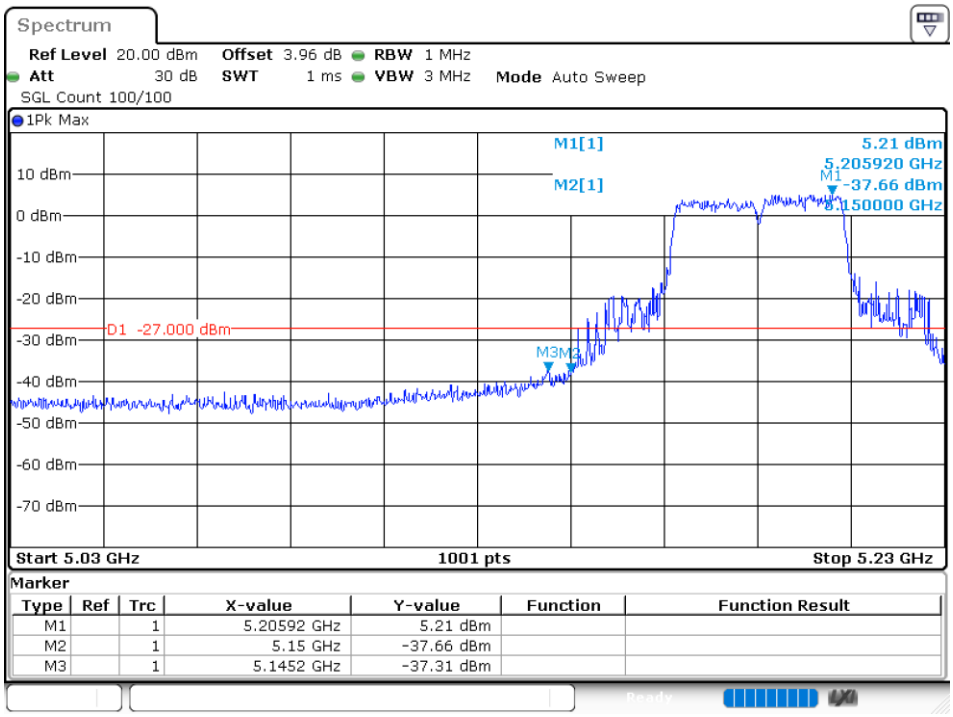


Band Edge NVNT n20 5180MHz Low Ant1

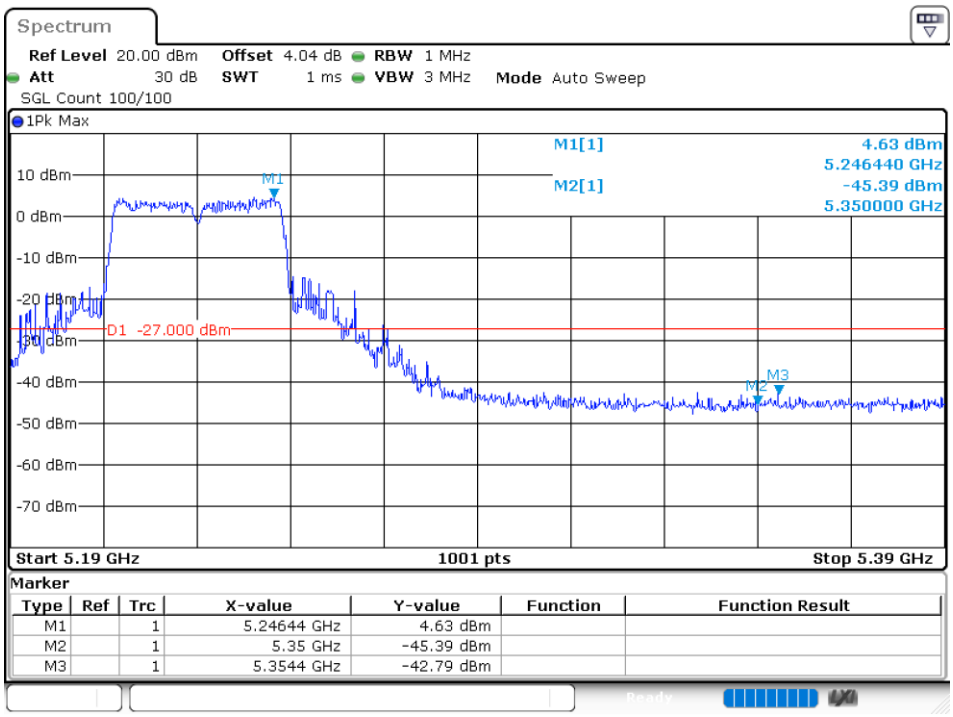


Band Edge NVNT n20 5240MHz High Ant1

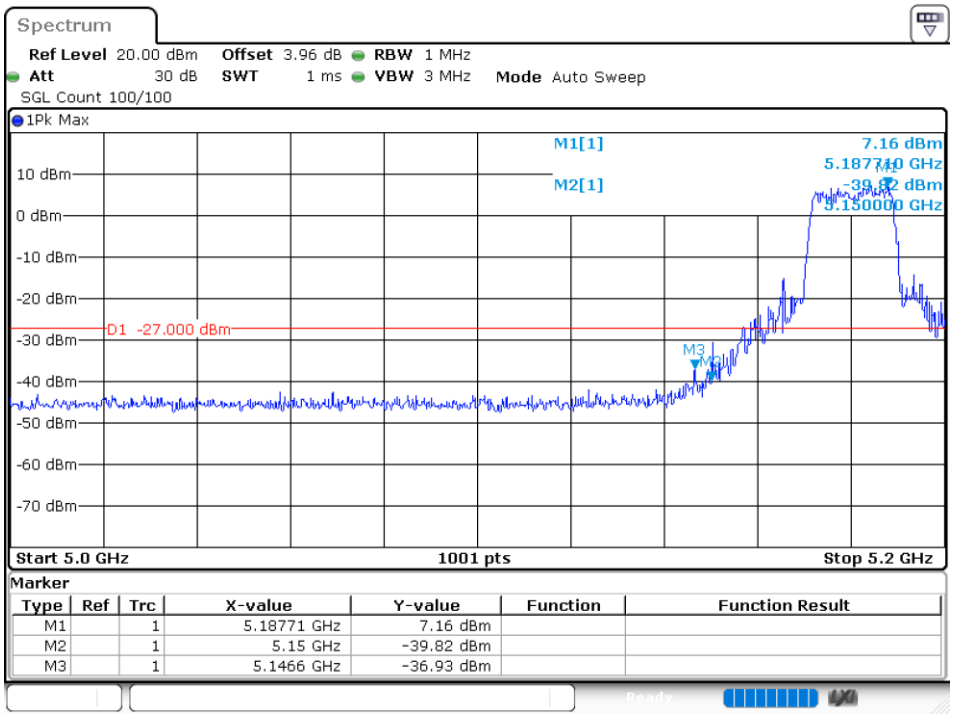
Band Edge NVNT n40 5190MHz Low Ant1



Band Edge NVNT n40 5230MHz High Ant1

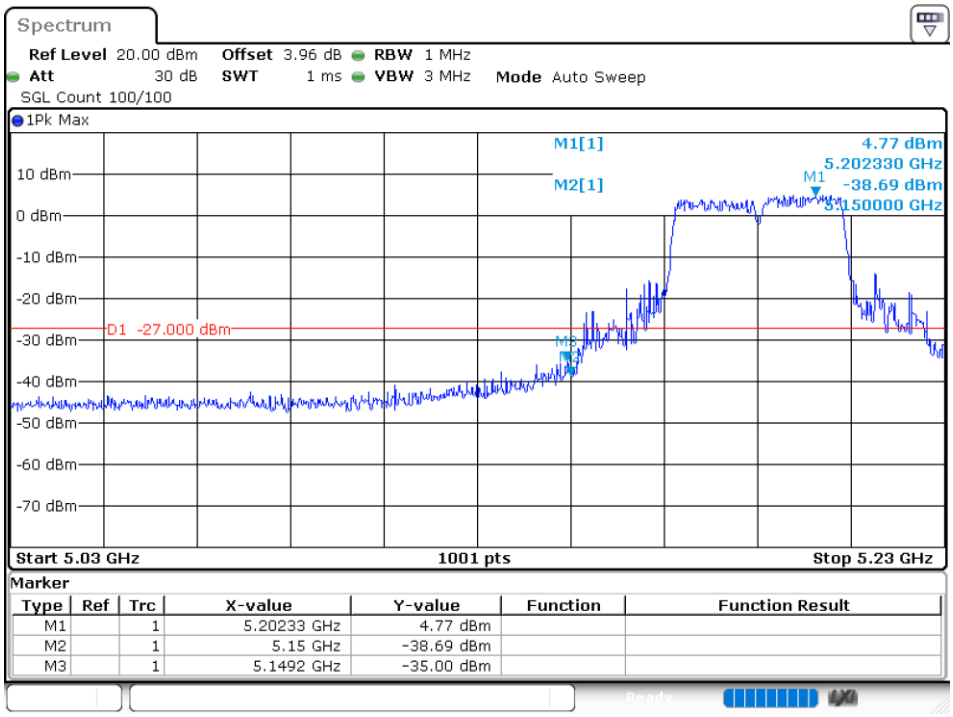


Band Edge NVNT ac20 5180MHz Low Ant1

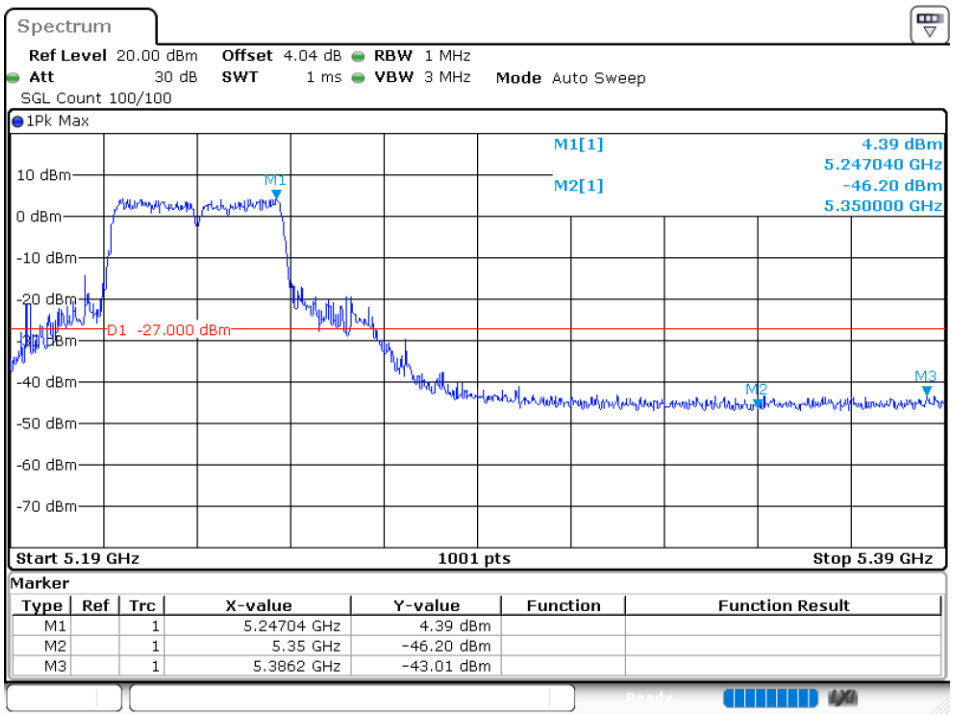


Band Edge NVNT ac20 5240MHz High Ant1

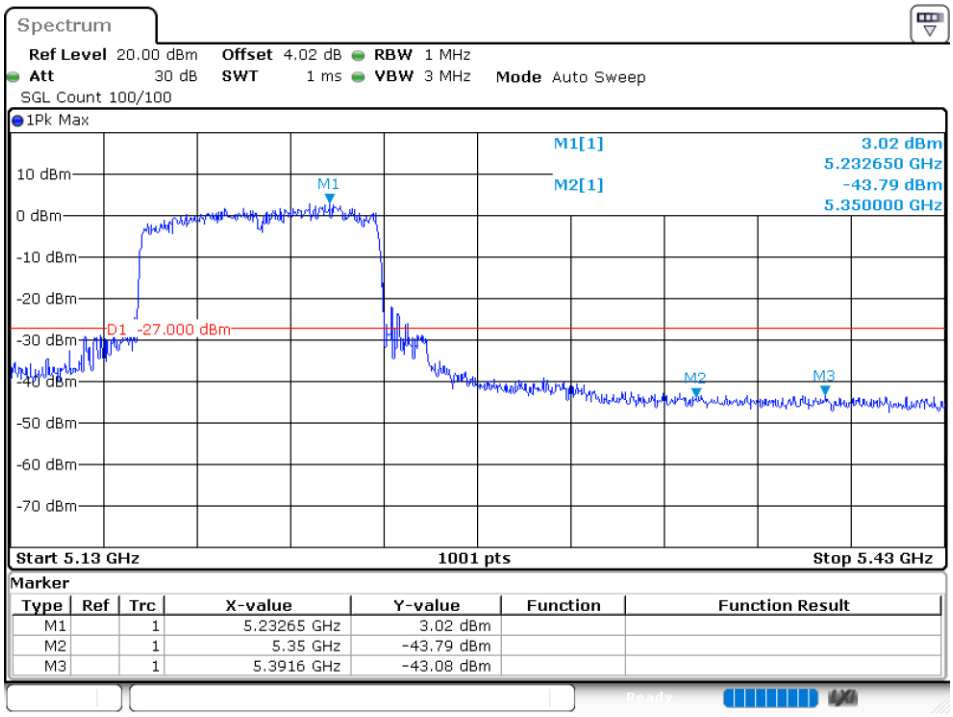
Band Edge NVNT ac40 5190MHz Low Ant1



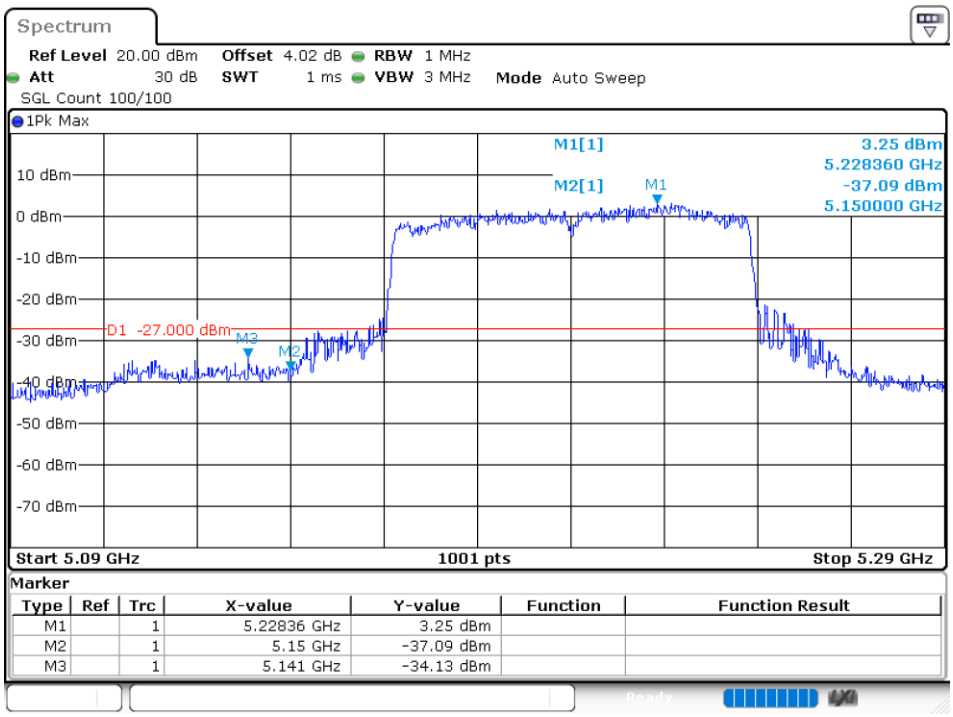
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1



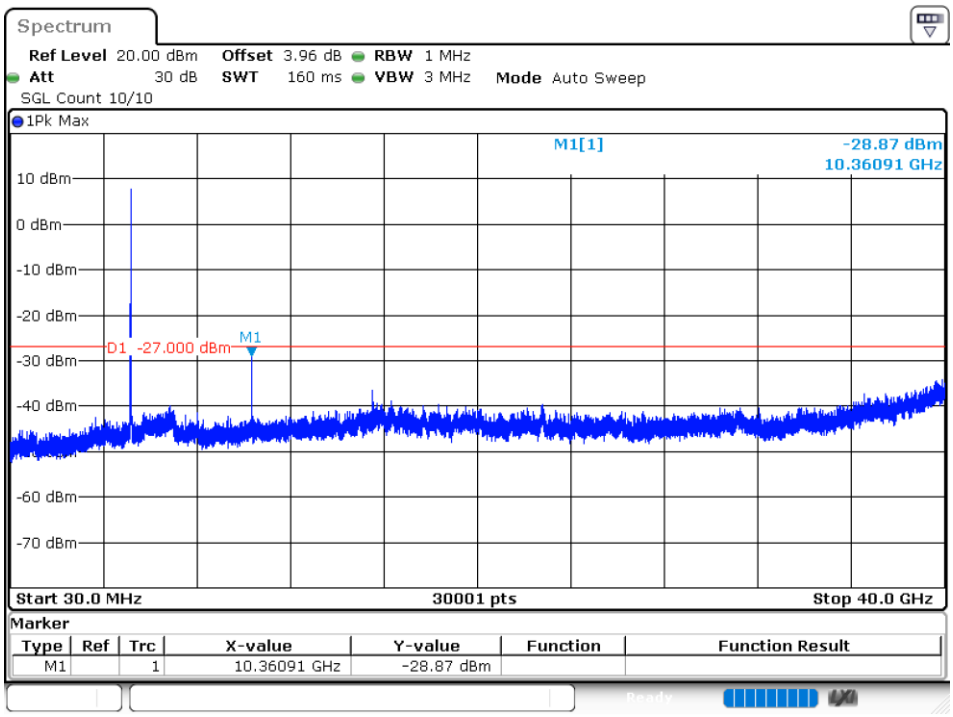
Band Edge NVNT ac80 5210MHz Low Ant1



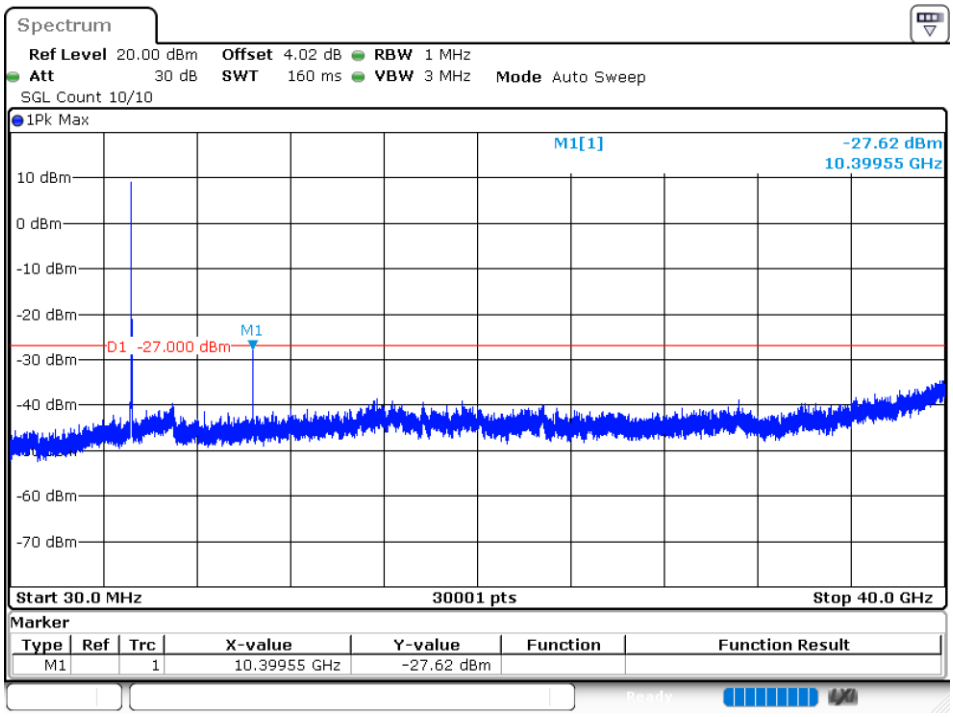
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-28.87	-27	Pass
NVNT	a	5200	Ant1	-27.61	-27	Pass
NVNT	a	5240	Ant1	-28.58	-27	Pass
NVNT	n20	5180	Ant1	-30.02	-27	Pass
NVNT	n20	5200	Ant1	-28.45	-27	Pass
NVNT	n20	5240	Ant1	-29.98	-27	Pass
NVNT	n40	5190	Ant1	-32.35	-27	Pass
NVNT	n40	5230	Ant1	-32.01	-27	Pass
NVNT	ac20	5180	Ant1	-30.12	-27	Pass
NVNT	ac20	5200	Ant1	-29.95	-27	Pass
NVNT	ac20	5240	Ant1	-29.5	-27	Pass
NVNT	ac40	5190	Ant1	-31.62	-27	Pass
NVNT	ac40	5230	Ant1	-32.64	-27	Pass
NVNT	ac80	5210	Ant1	-33.28	-27	Pass

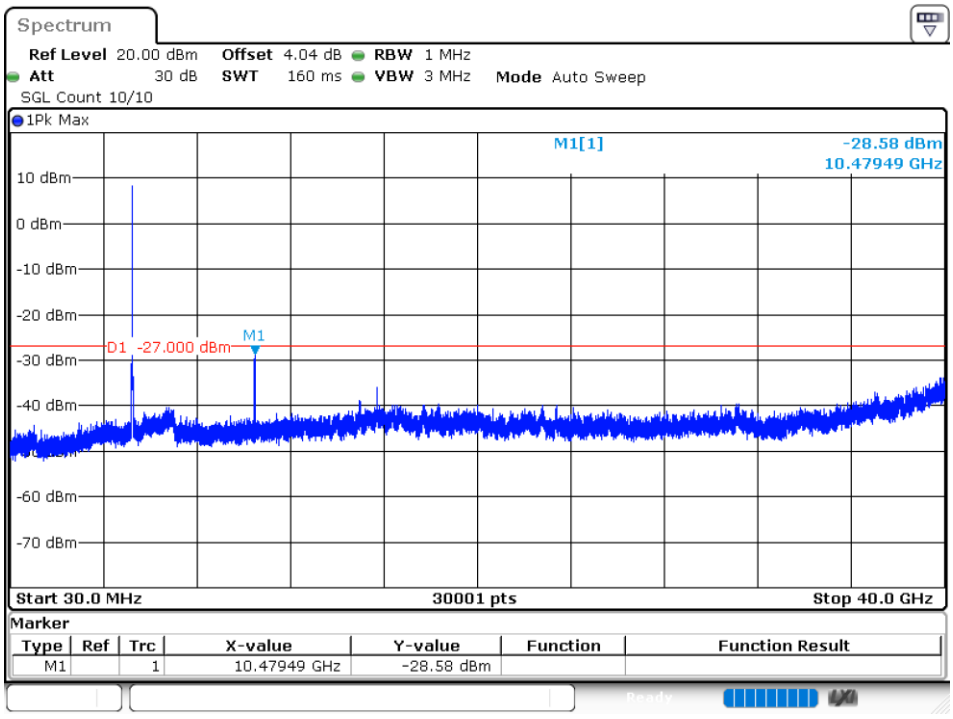
Test Graphs
Tx. Spurious NVNT a 5180MHz Ant1 Emission



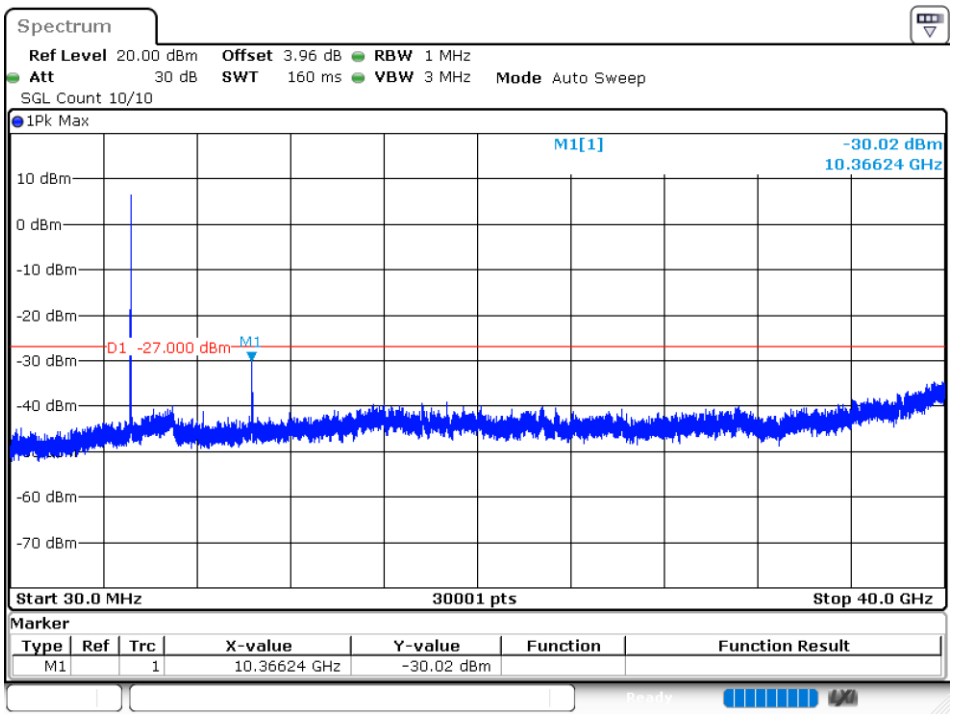
Tx. Spurious NVNT a 5200MHz Ant1 Emission



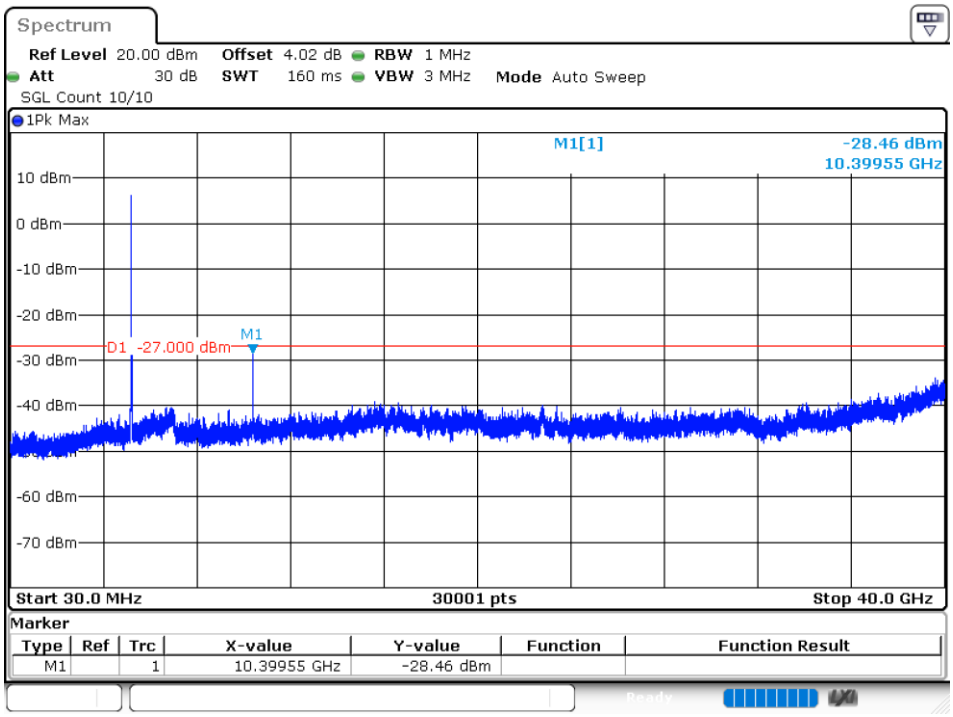
Tx. Spurious NVNT a 5240MHz Ant1 Emission



Tx. Spurious NVNT n20 5180MHz Ant1 Emission



Tx. Spurious NVNT n20 5200MHz Ant1 Emission



Tx. Spurious NVNT n20 5240MHz Ant1 Emission