

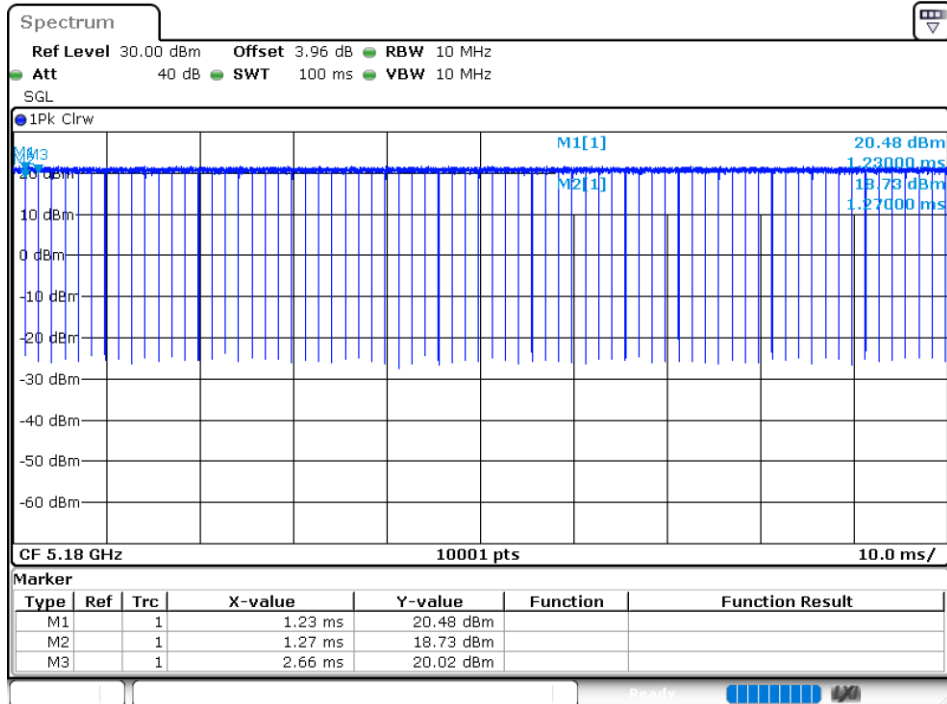
5.2G WIFI

Duty Cycle

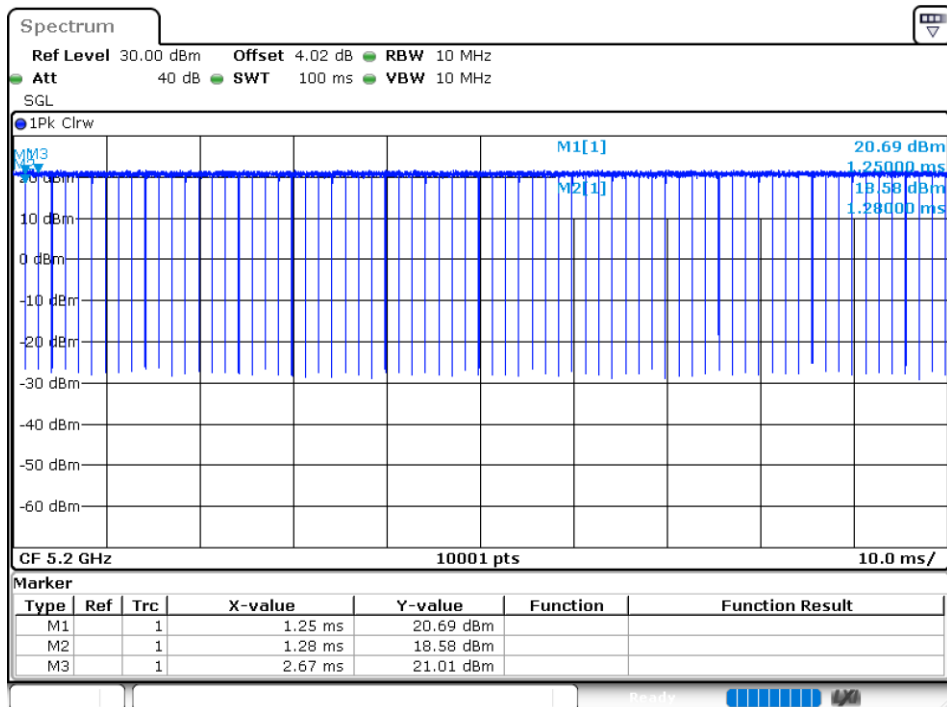
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	98.2	0.08	0.72
NVNT	a	5200	Ant1	98.15	0.08	0.72
NVNT	a	5240	Ant1	98.2	0.08	0.72
NVNT	n20	5180	Ant1	98.06	0.09	0.77
NVNT	n20	5200	Ant1	98.05	0.09	0.77
NVNT	n20	5240	Ant1	98.07	0.08	0.77
NVNT	n40	5190	Ant1	95.3	0.21	1.54
NVNT	n40	5230	Ant1	94.55	0.24	1.56
NVNT	ac20	5180	Ant1	98.09	0.08	0.76
NVNT	ac20	5200	Ant1	98.04	0.09	0.76
NVNT	ac20	5240	Ant1	98.06	0.09	0.76
NVNT	ac40	5190	Ant1	95.19	0.21	1.54
NVNT	ac40	5230	Ant1	95.31	0.21	1.54
NVNT	ac80	5210	Ant1	85.79	0.67	3.13

Test Graphs

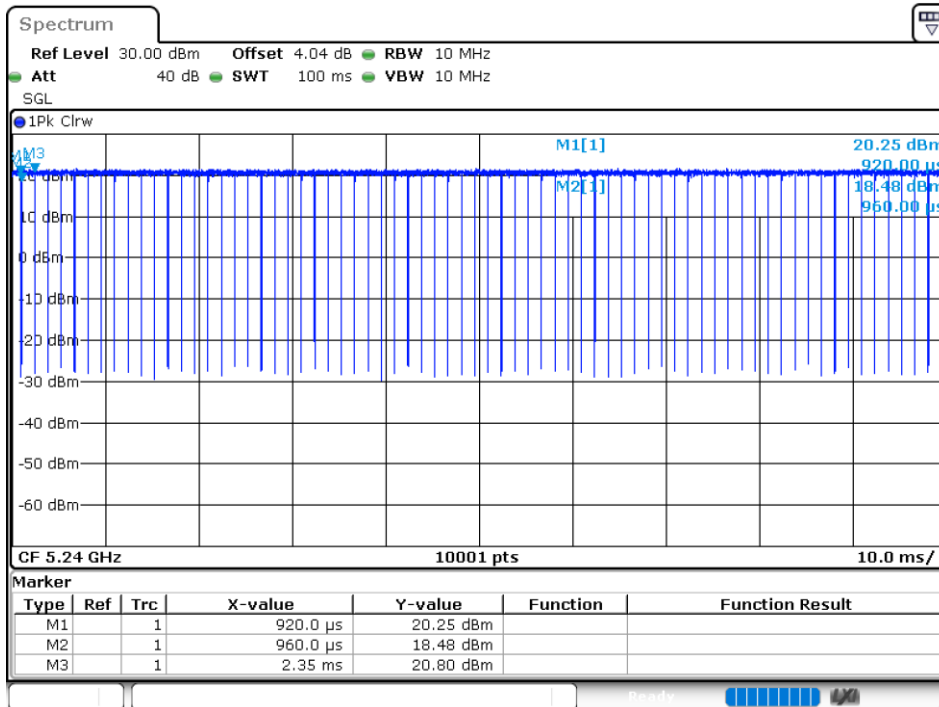
Duty Cycle NVNT a 5180MHz Ant1



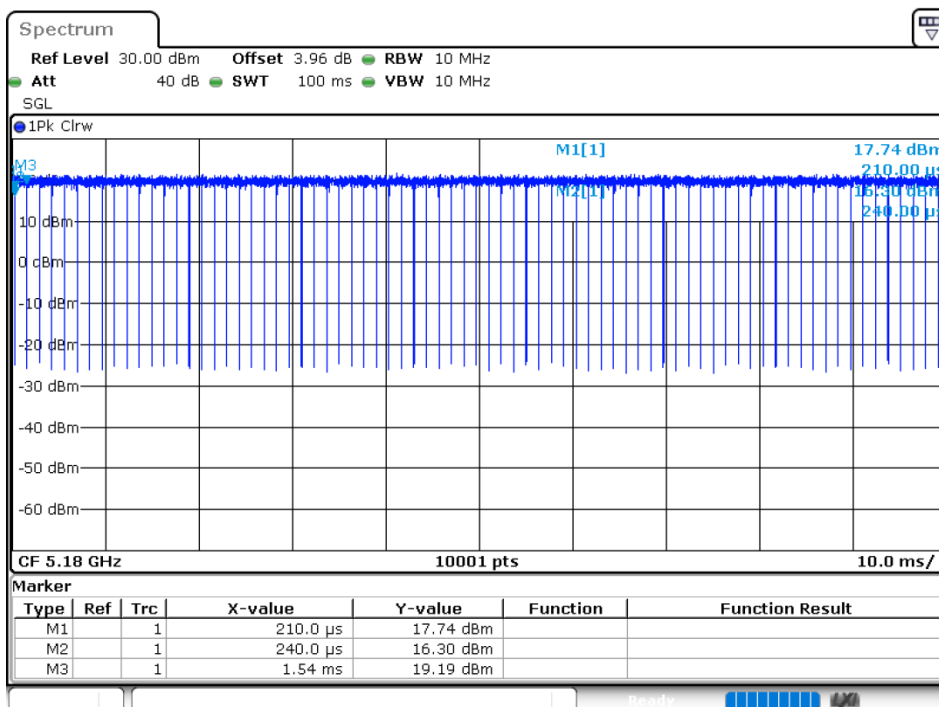
Duty Cycle NVNT a 5200MHz Ant1



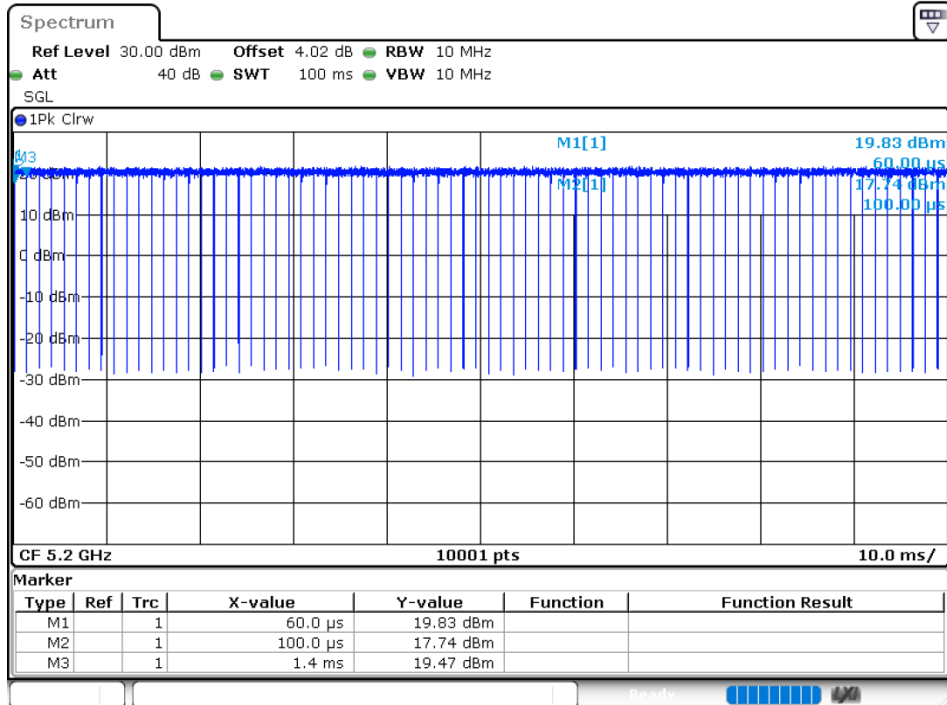
Duty Cycle NVNT a 5240MHz Ant1



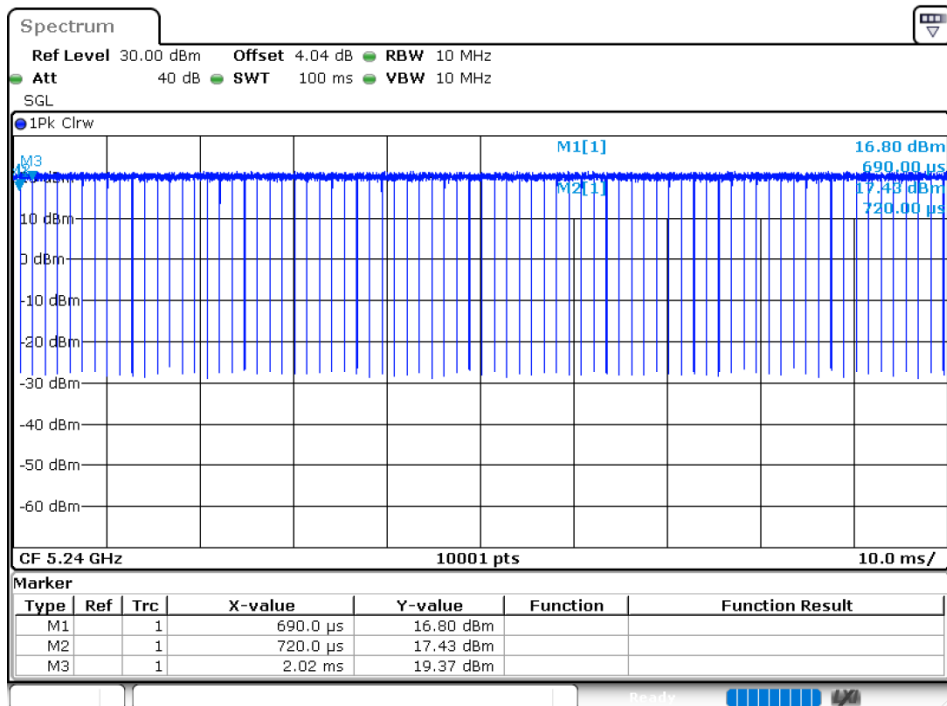
Duty Cycle NVNT n20 5180MHz Ant1



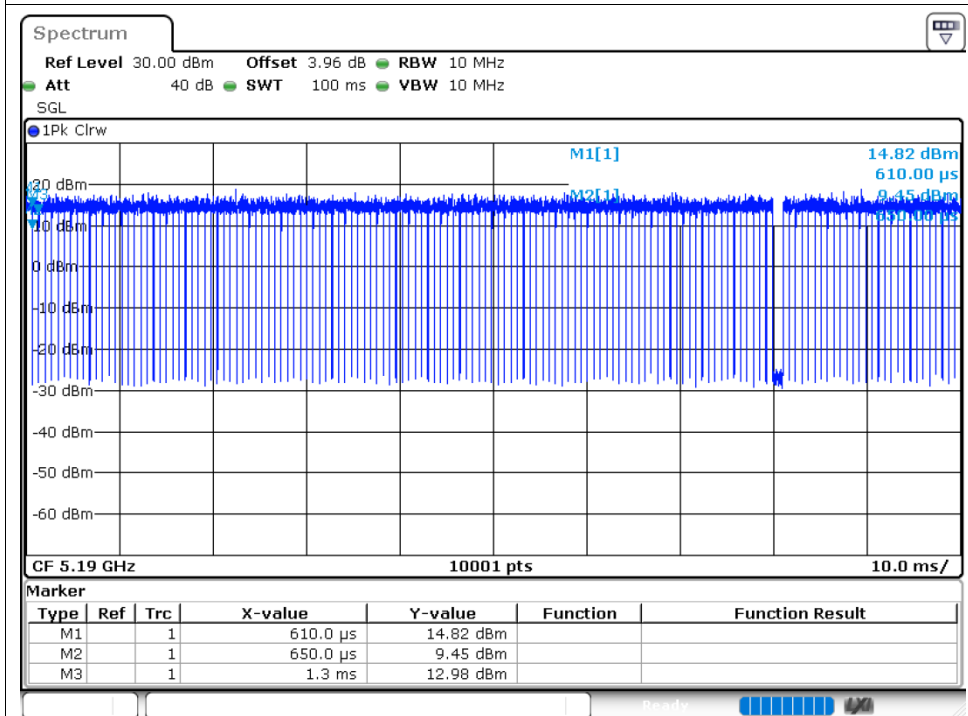
Duty Cycle NVNT n20 5200MHz Ant1



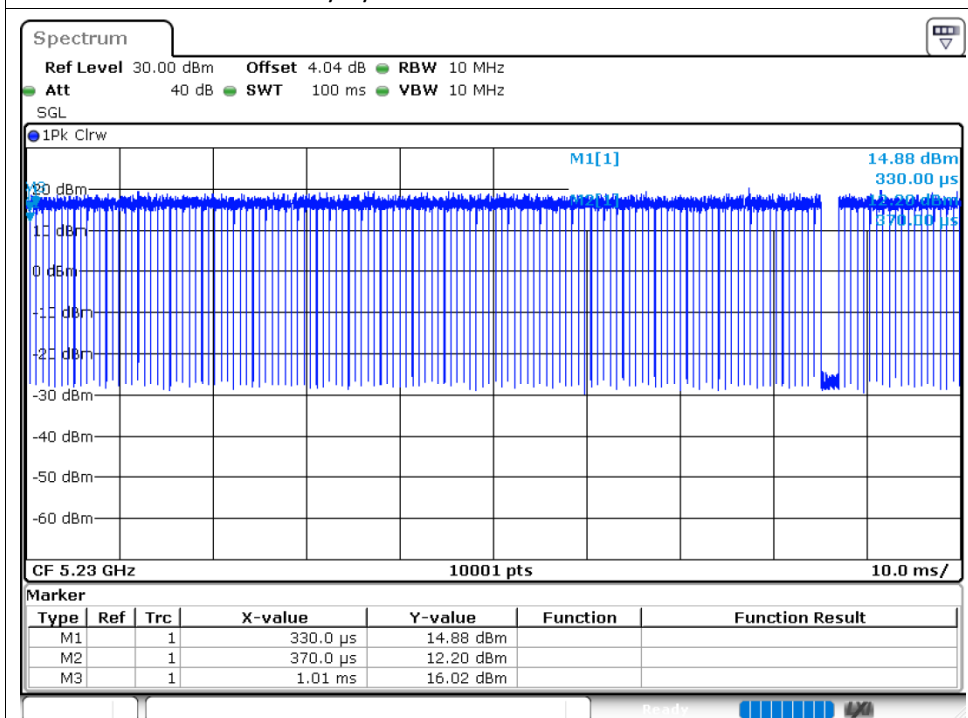
Duty Cycle NVNT n20 5240MHz Ant1



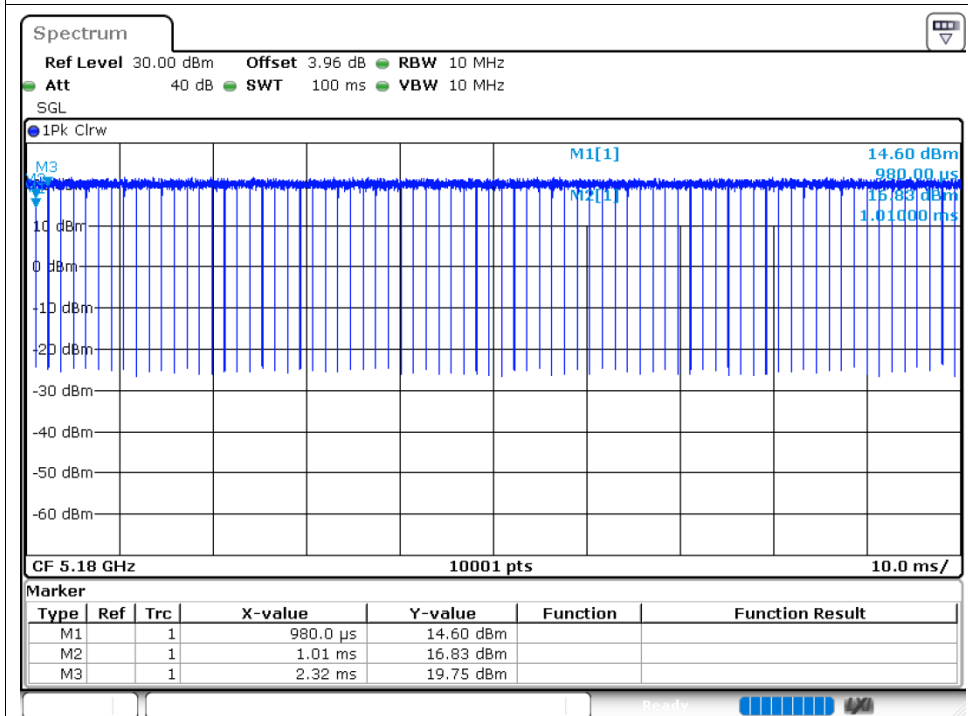
Duty Cycle NVNT n40 5190MHz Ant1



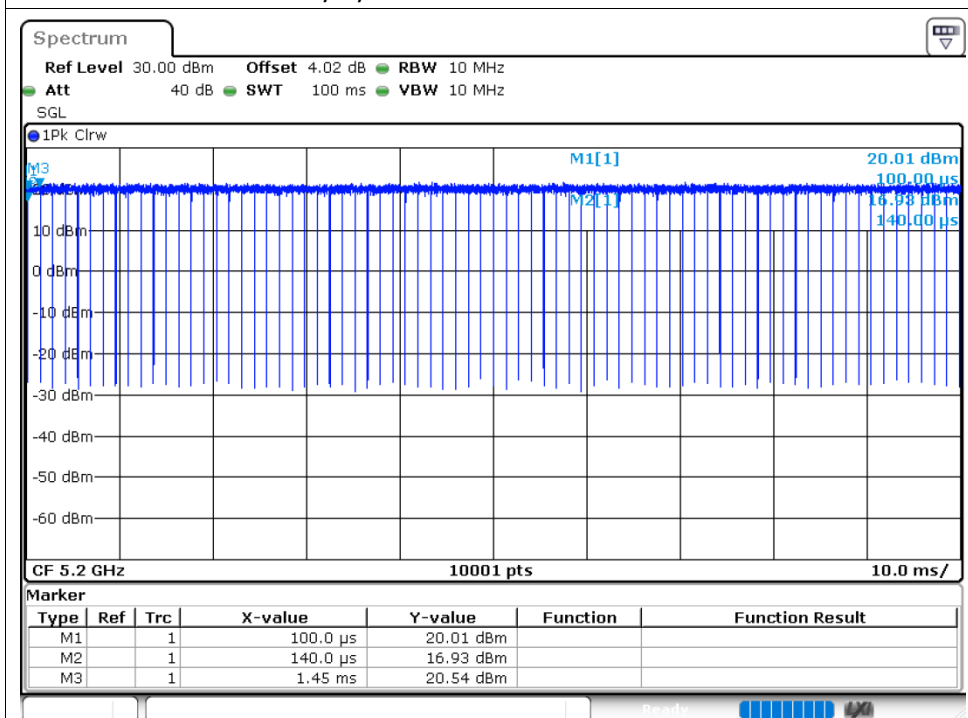
Duty Cycle NVNT n40 5230MHz Ant1



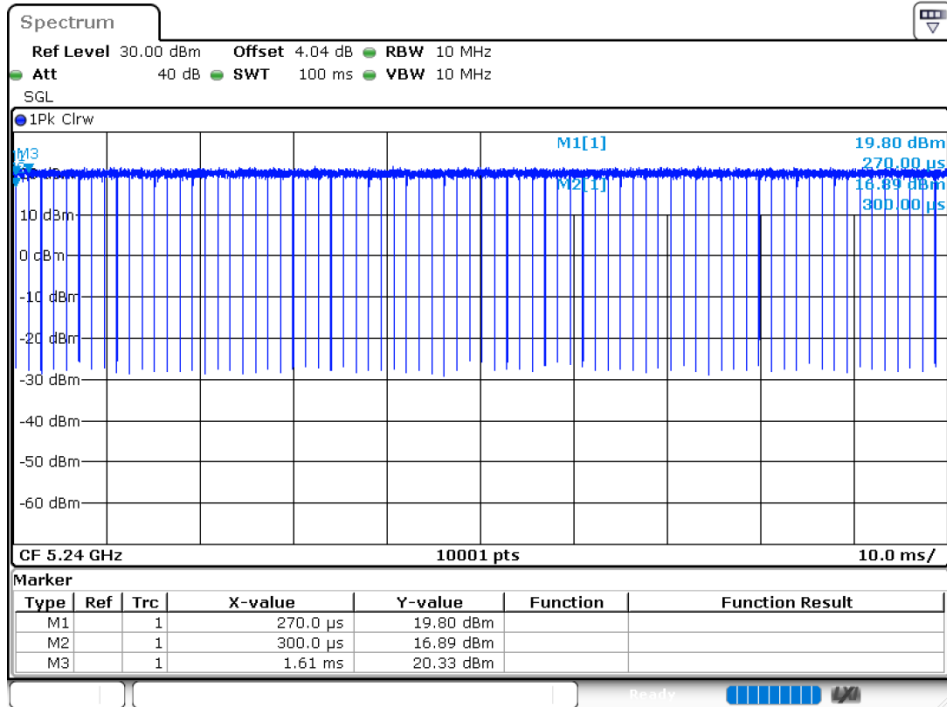
Duty Cycle NVNT ac20 5180MHz Ant1



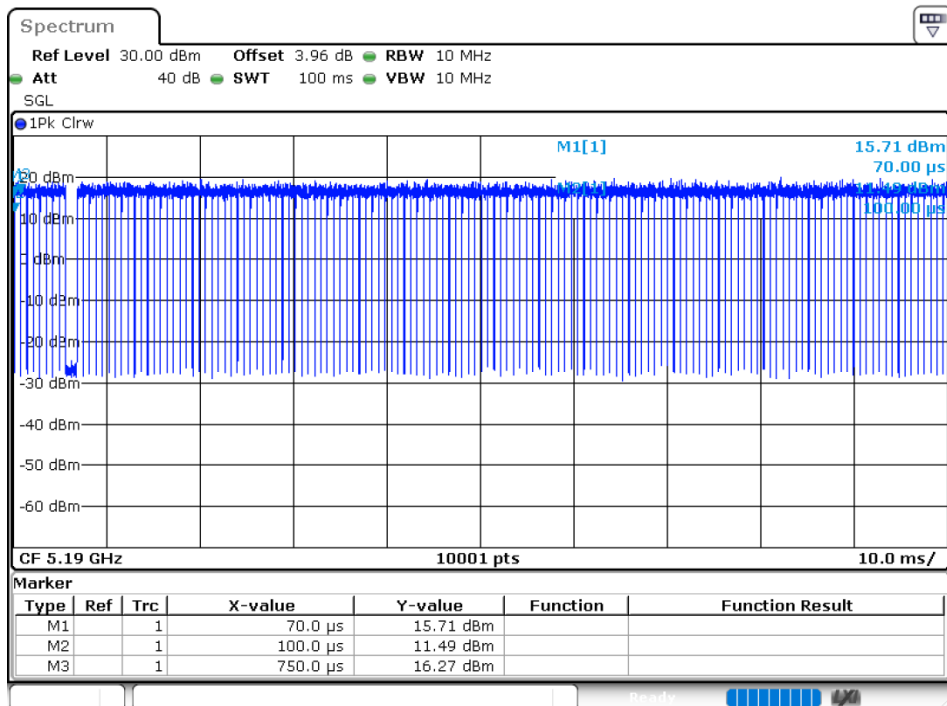
Duty Cycle NVNT ac20 5200MHz Ant1



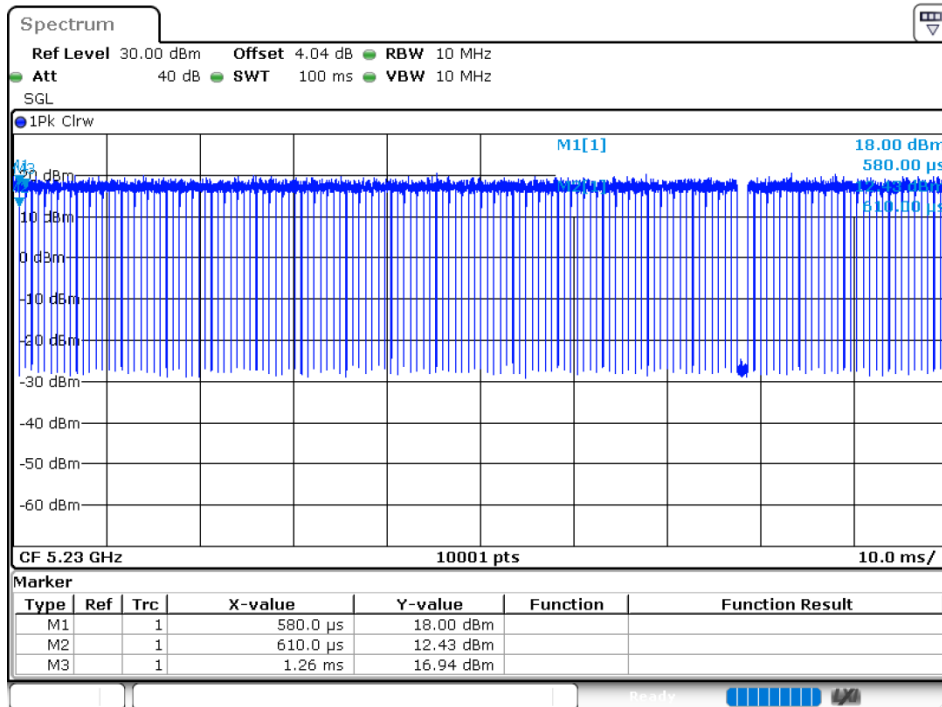
Duty Cycle NVNT ac20 5240MHz Ant1



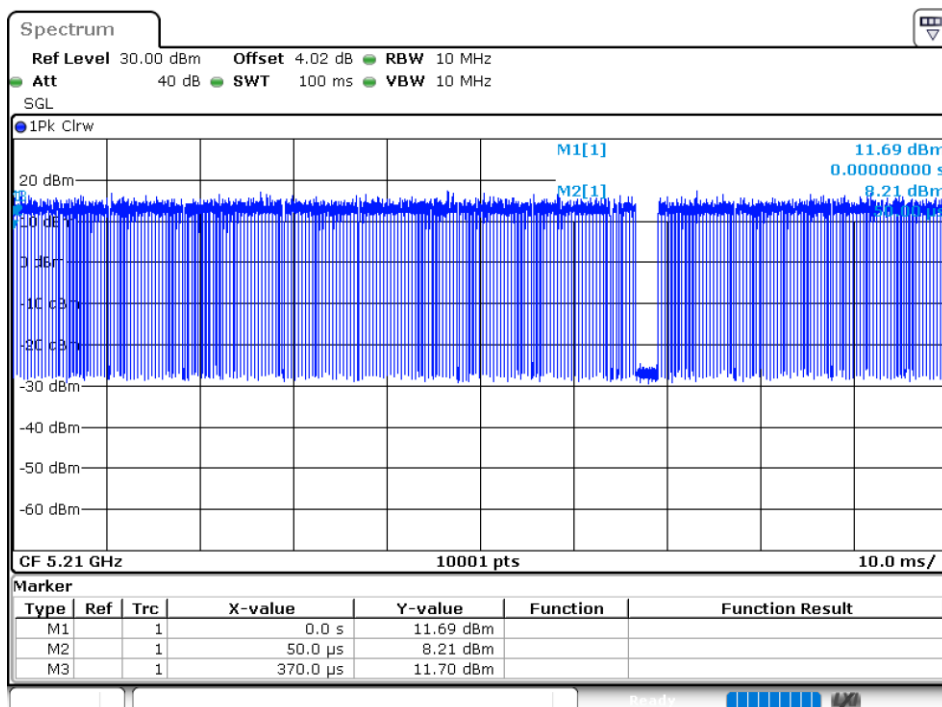
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

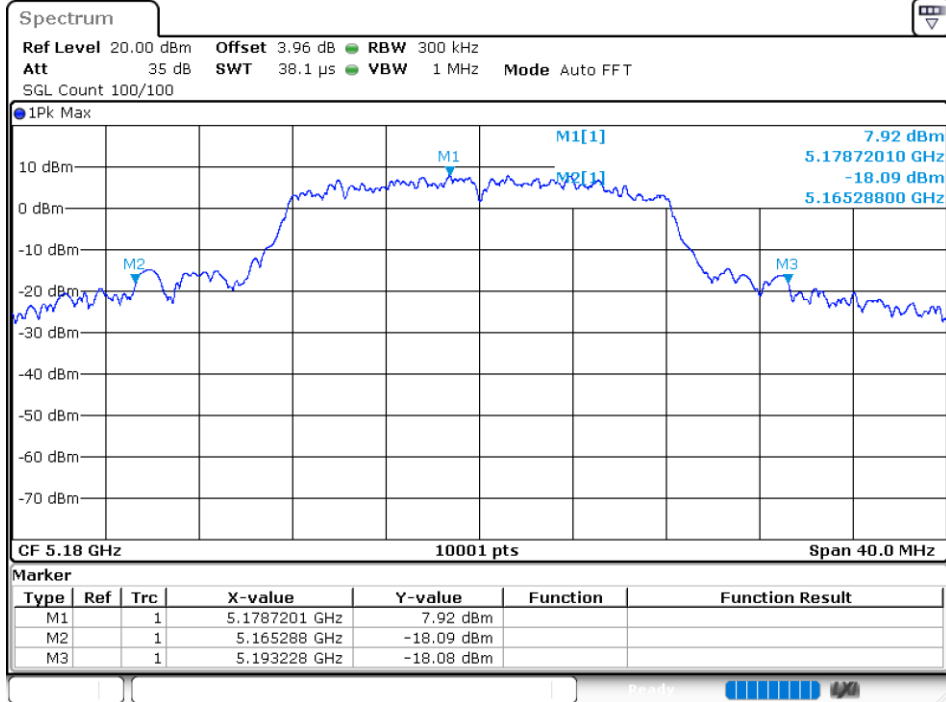
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	16.86	24	Pass
NVNT	a	5200	Ant1	18.34	24	Pass
NVNT	a	5240	Ant1	18.46	24	Pass
NVNT	n20	5180	Ant1	15.54	24	Pass
NVNT	n20	5200	Ant1	16.47	24	Pass
NVNT	n20	5240	Ant1	16.59	24	Pass
NVNT	n40	5190	Ant1	12.48	24	Pass
NVNT	n40	5230	Ant1	14.04	24	Pass
NVNT	ac20	5180	Ant1	15.48	24	Pass
NVNT	ac20	5200	Ant1	16.23	24	Pass
NVNT	ac20	5240	Ant1	16.46	24	Pass
NVNT	ac40	5190	Ant1	12.86	24	Pass
NVNT	ac40	5230	Ant1	14.28	24	Pass
NVNT	ac80	5210	Ant1	12.54	24	Pass

-26dB Bandwidth

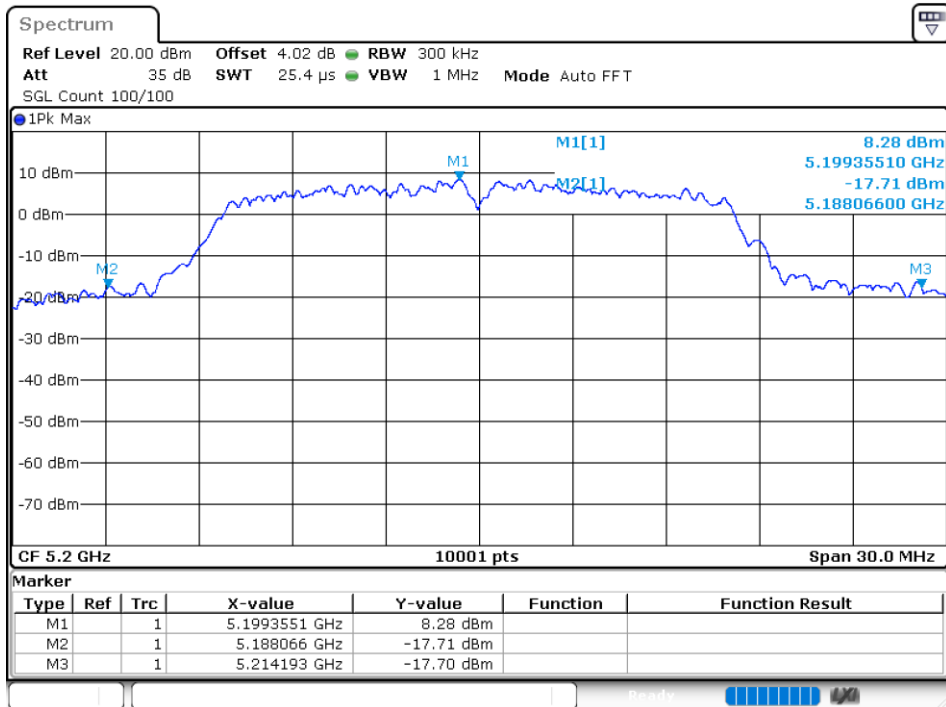
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	27.94	Pass
NVNT	a	5200	Ant1	26.127	Pass
NVNT	a	5240	Ant1	29.046	Pass
NVNT	n20	5180	Ant1	20.448	Pass
NVNT	n20	5200	Ant1	24.006	Pass
NVNT	n20	5240	Ant1	27.111	Pass
NVNT	n40	5190	Ant1	40.638	Pass
NVNT	n40	5230	Ant1	40.704	Pass
NVNT	ac20	5180	Ant1	20.487	Pass
NVNT	ac20	5200	Ant1	20.421	Pass
NVNT	ac20	5240	Ant1	20.409	Pass
NVNT	ac40	5190	Ant1	40.716	Pass
NVNT	ac40	5230	Ant1	43.74	Pass
NVNT	ac80	5210	Ant1	82.848	Pass

Test Graphs

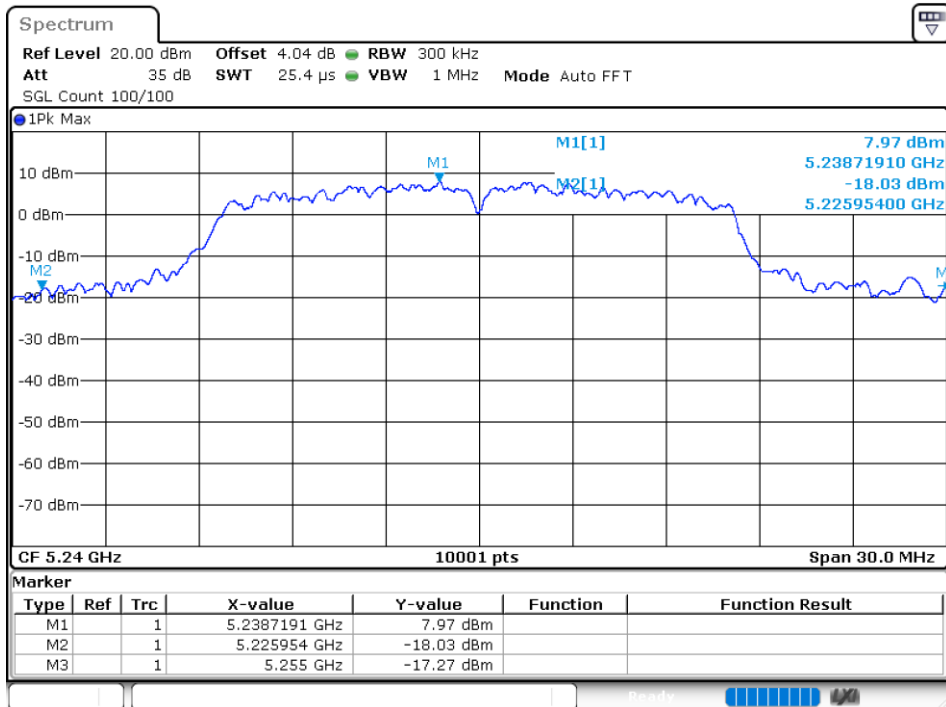
-26dB Bandwidth NVNT a 5180MHz Ant1



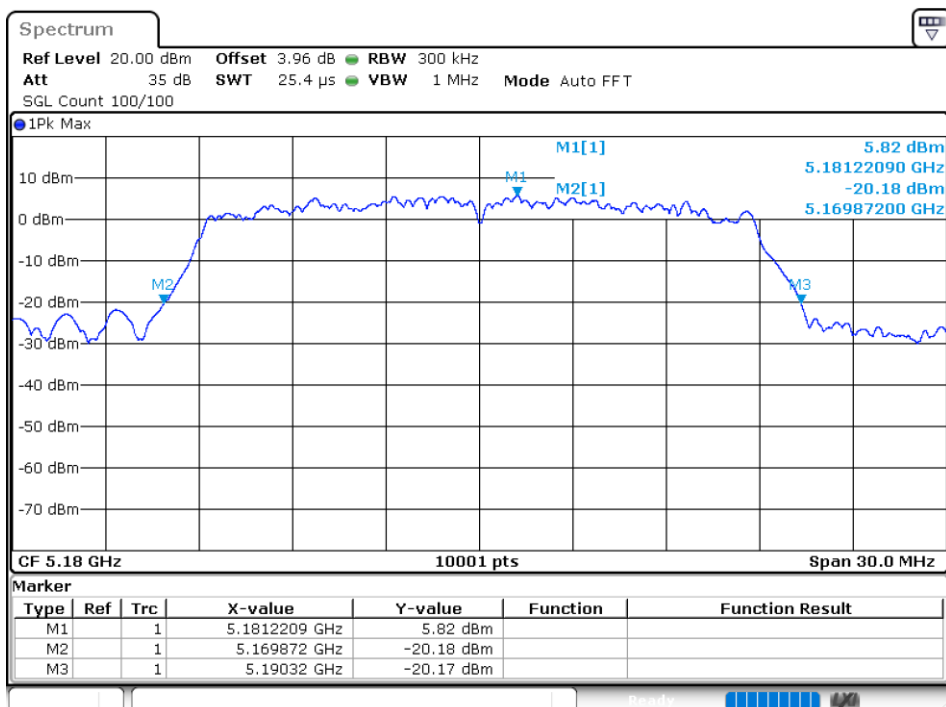
-26dB Bandwidth NVNT a 5200MHz Ant1



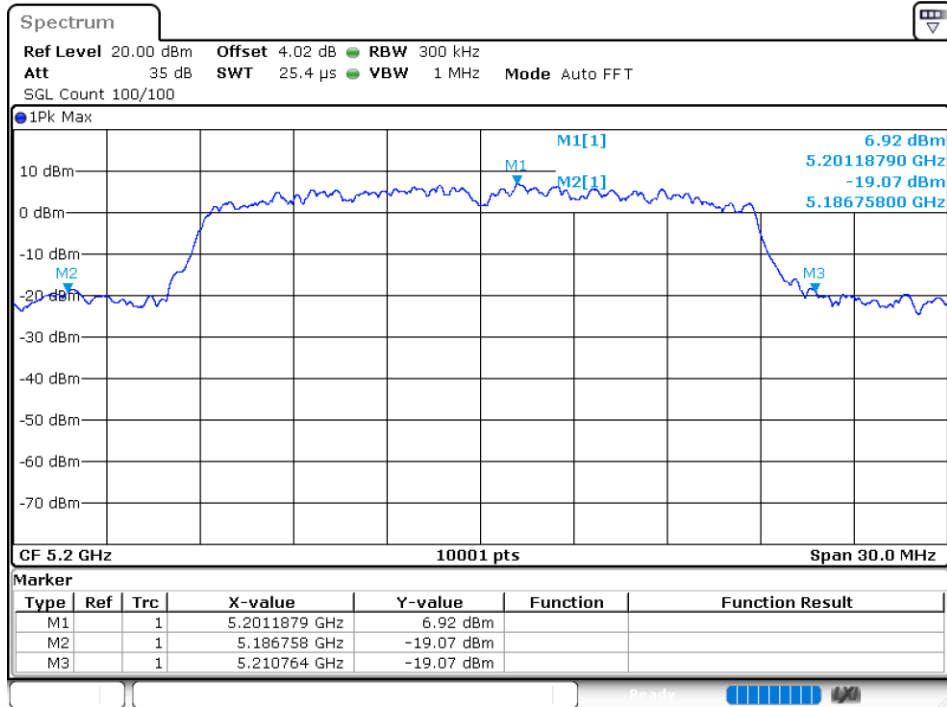
-26dB Bandwidth NVNT a 5240MHz Ant1



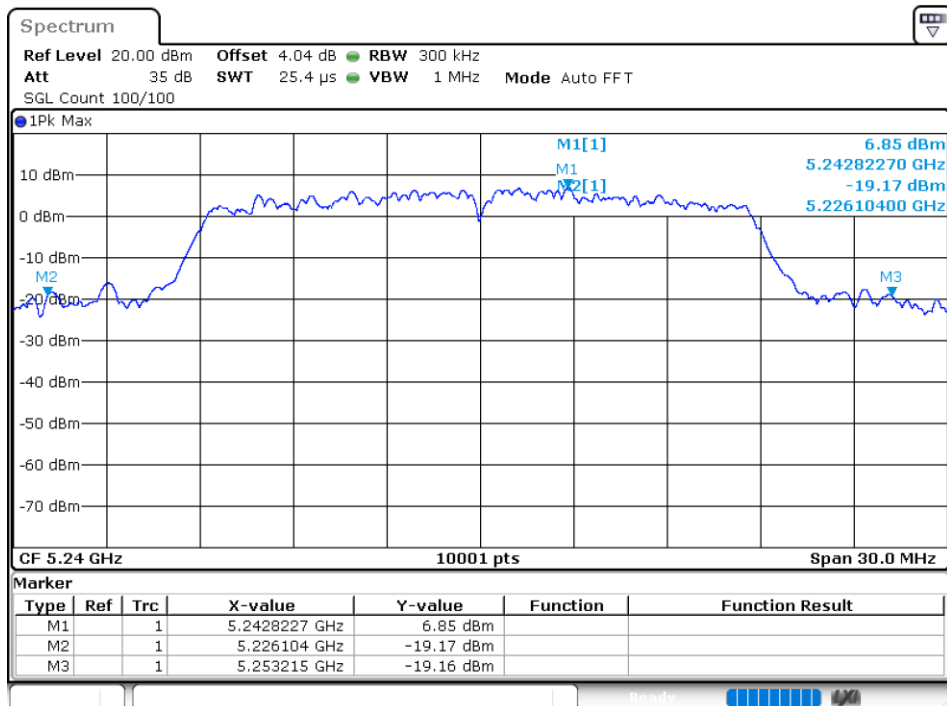
-26dB Bandwidth NVNT n20 5180MHz Ant1



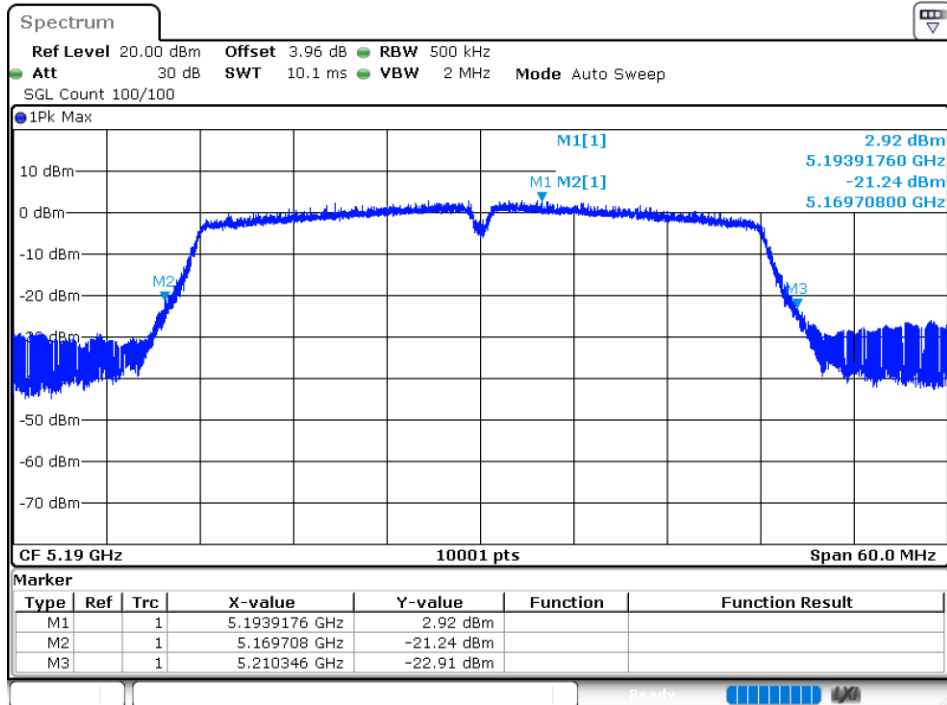
-26dB Bandwidth NVNT n20 5200MHz Ant1



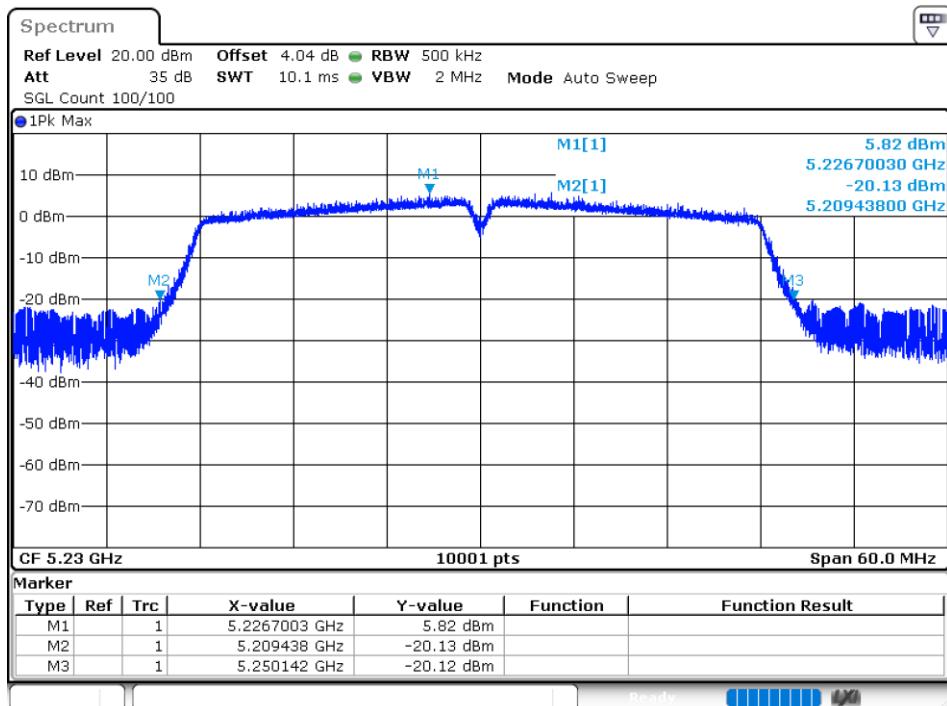
-26dB Bandwidth NVNT n20 5240MHz Ant1



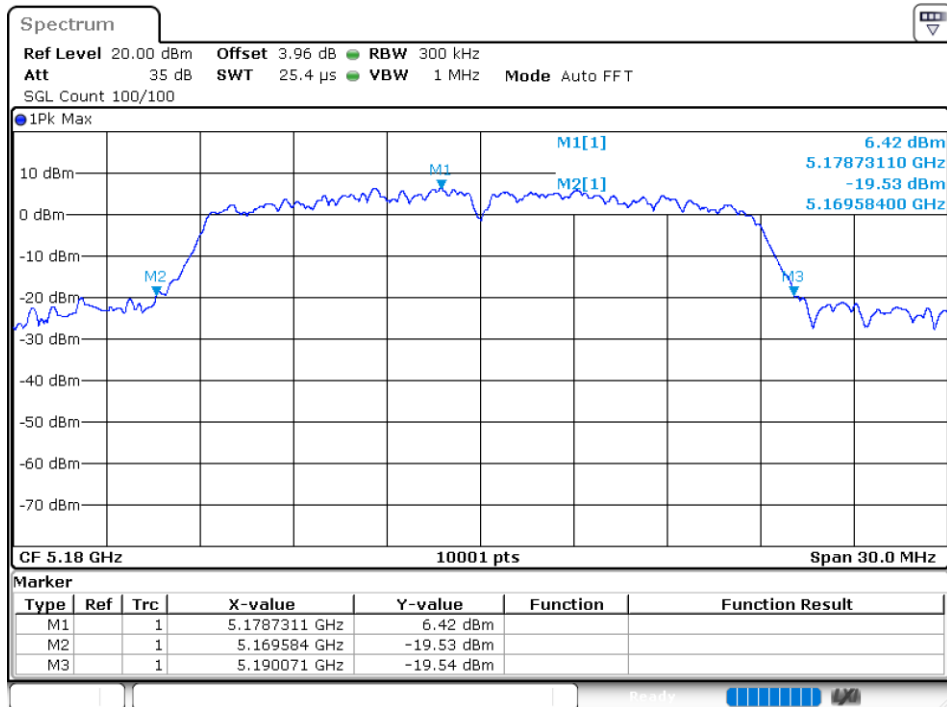
-26dB Bandwidth NVNT n40 5190MHz Ant1



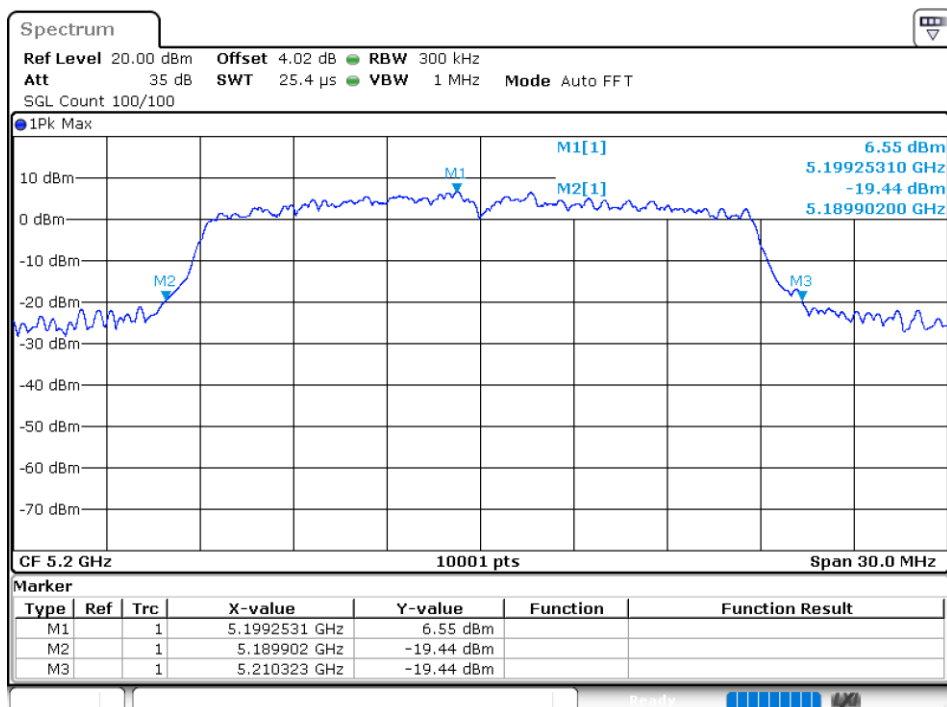
-26dB Bandwidth NVNT n40 5230MHz Ant1



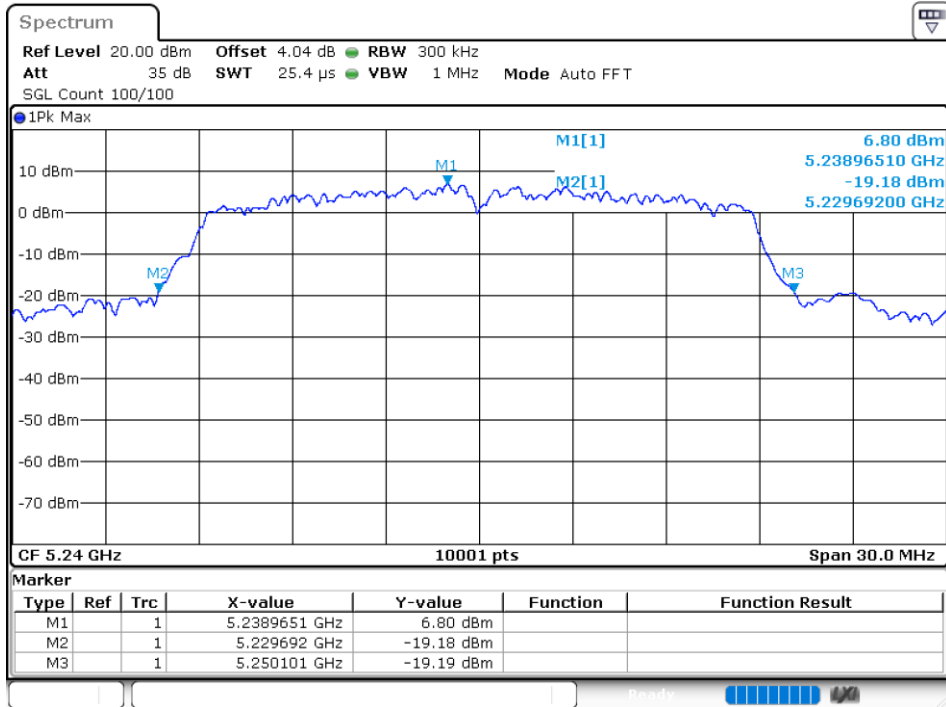
-26dB Bandwidth NVNT ac20 5180MHz Ant1



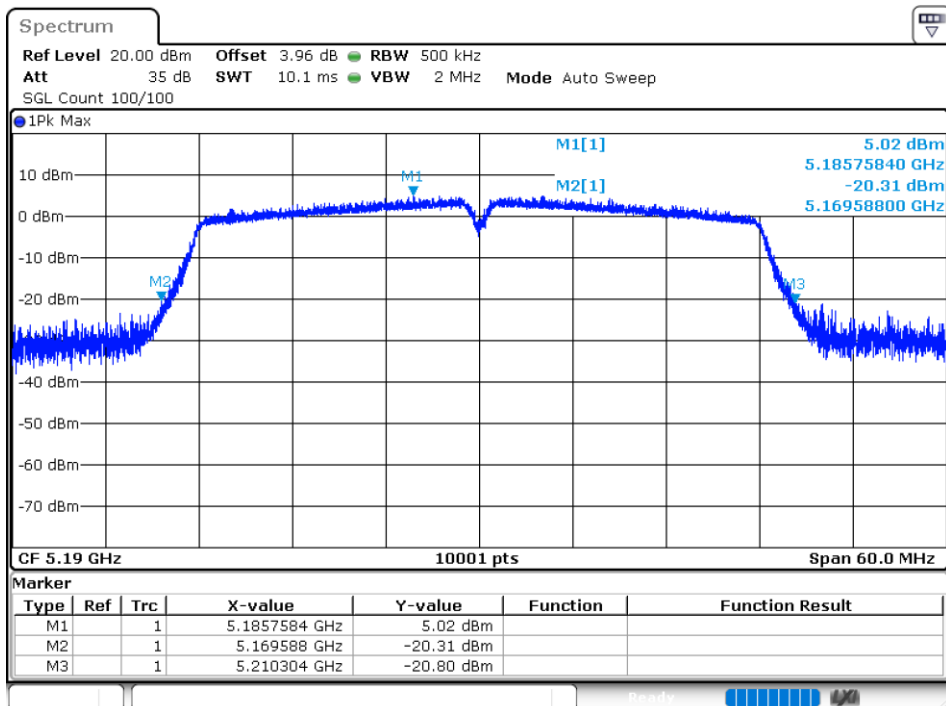
-26dB Bandwidth NVNT ac20 5200MHz Ant1



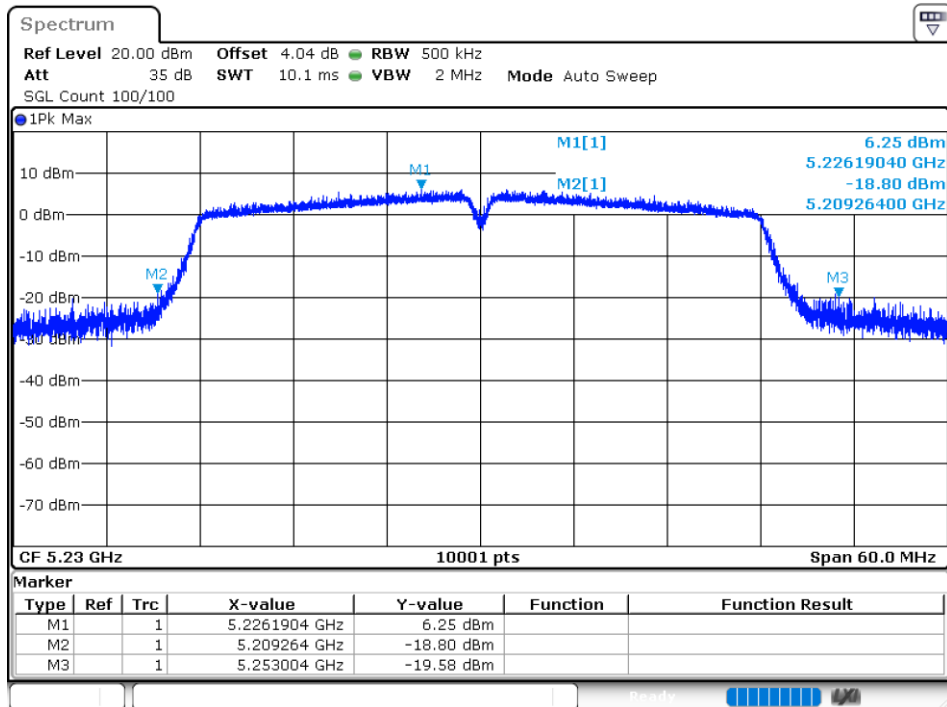
-26dB Bandwidth NVNT ac20 5240MHz Ant1



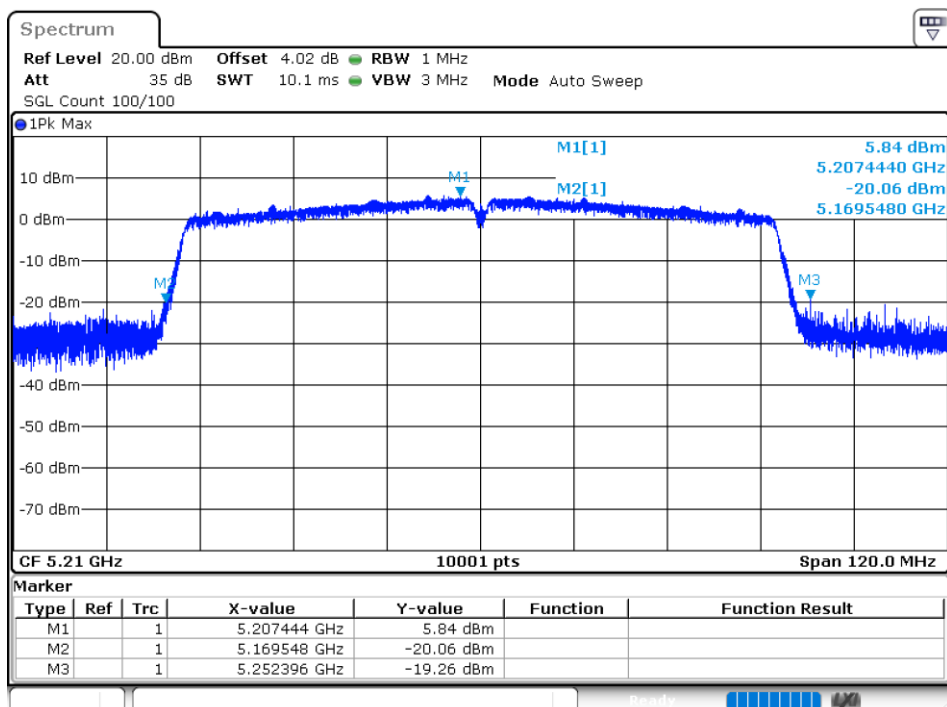
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

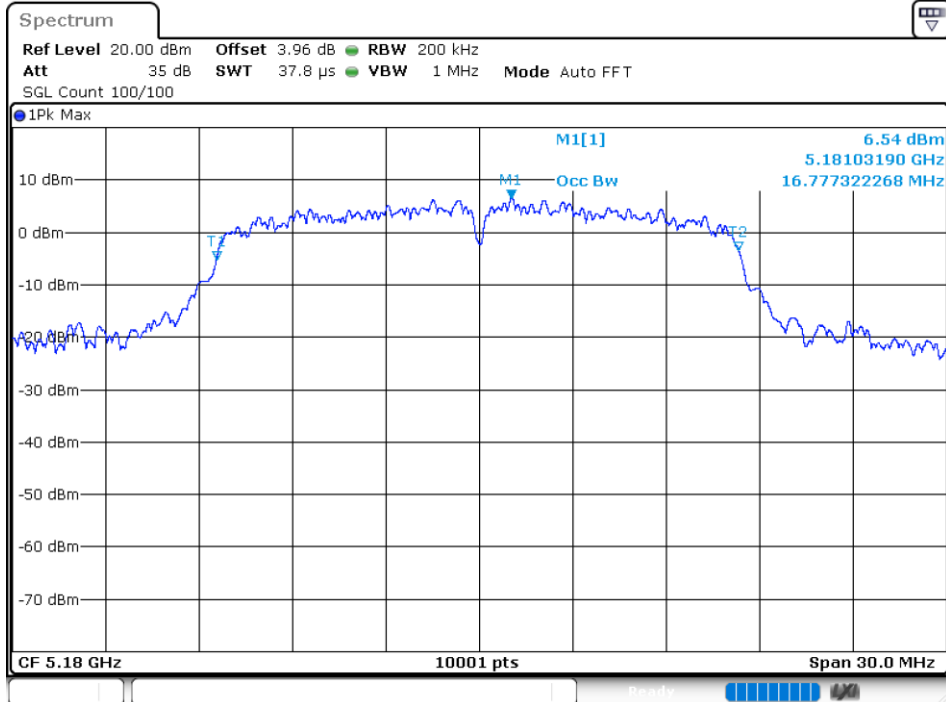


Occupied Channel Bandwidth

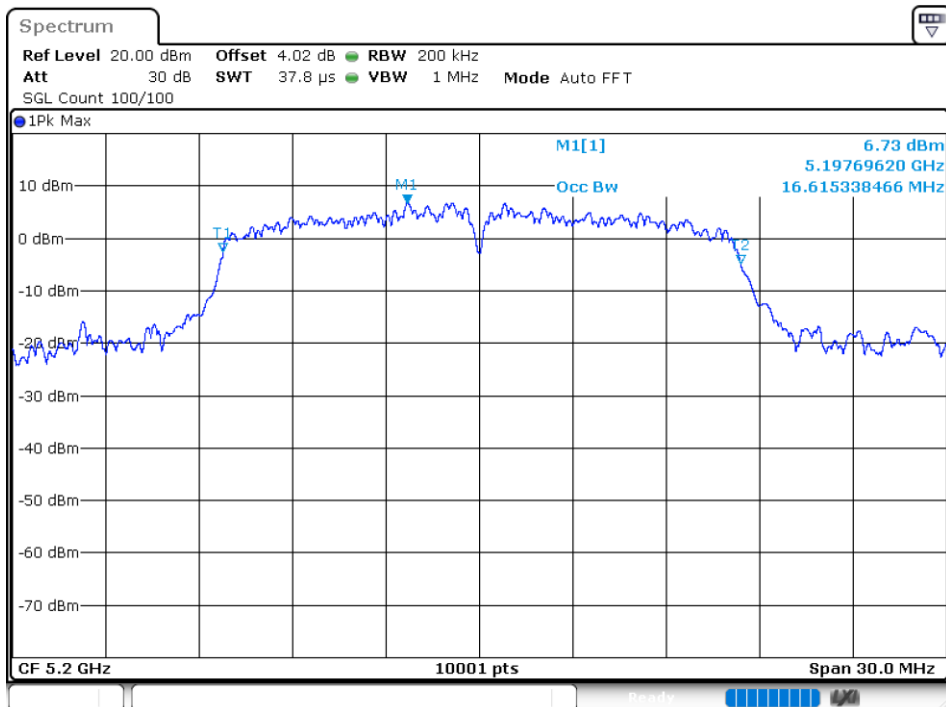
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.777
NVNT	a	5200	Ant1	16.615
NVNT	a	5240	Ant1	16.597
NVNT	n20	5180	Ant1	17.548
NVNT	n20	5200	Ant1	17.692
NVNT	n20	5240	Ant1	17.734
NVNT	n40	5190	Ant1	36.032
NVNT	n40	5230	Ant1	36.098
NVNT	ac20	5180	Ant1	17.653
NVNT	ac20	5200	Ant1	17.506
NVNT	ac20	5240	Ant1	17.575
NVNT	ac40	5190	Ant1	36.02
NVNT	ac40	5230	Ant1	36.068
NVNT	ac80	5210	Ant1	75.1

Test Graphs

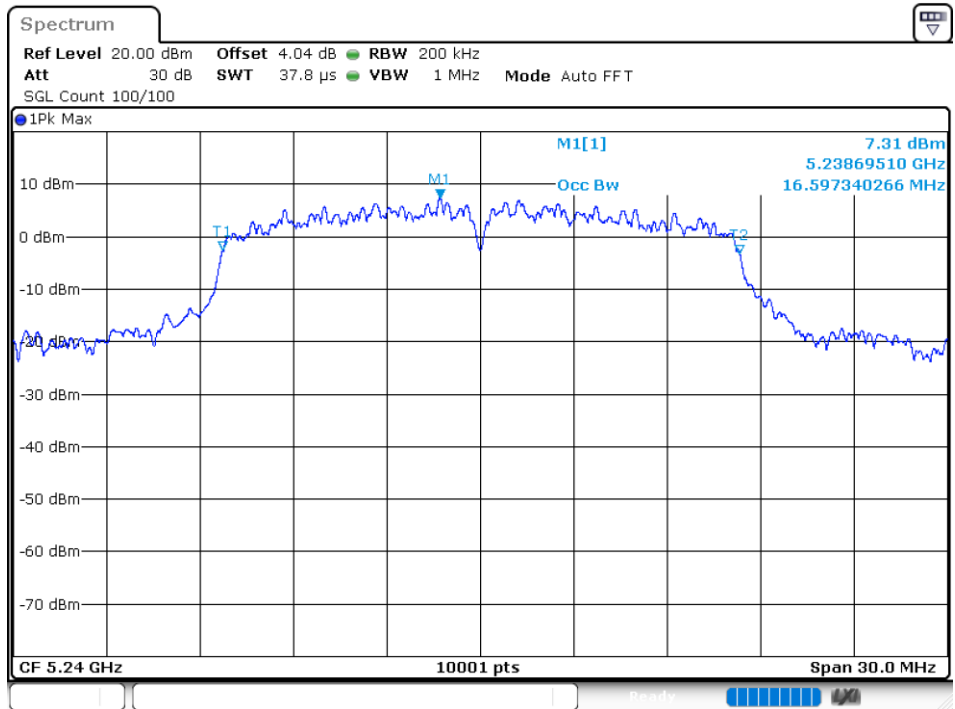
OBW NVNT a 5180MHz Ant1



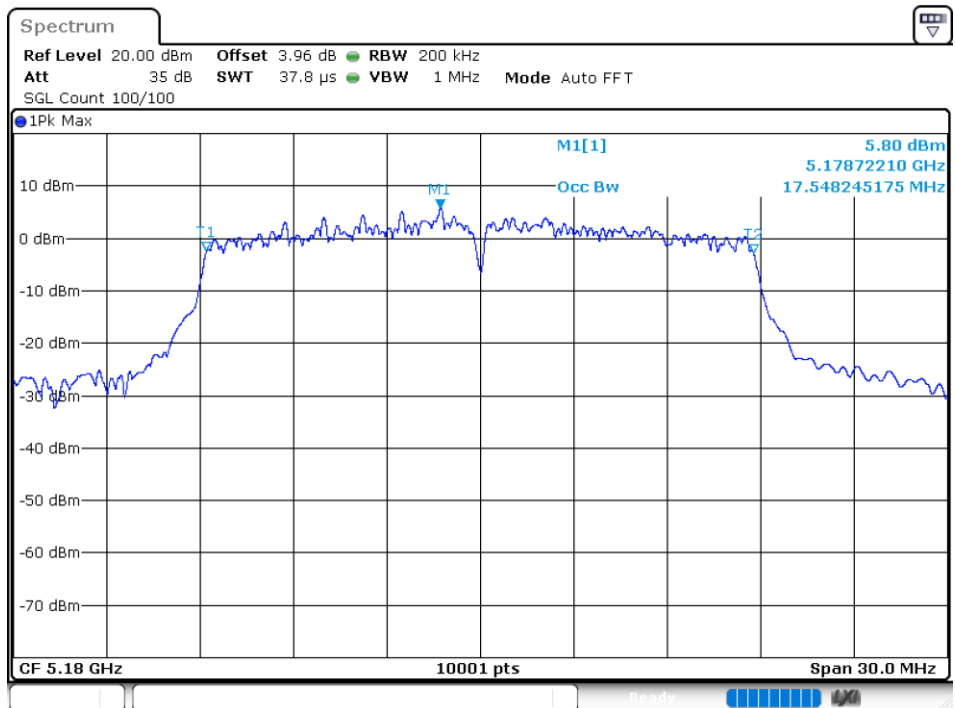
OBW NVNT a 5200MHz Ant1

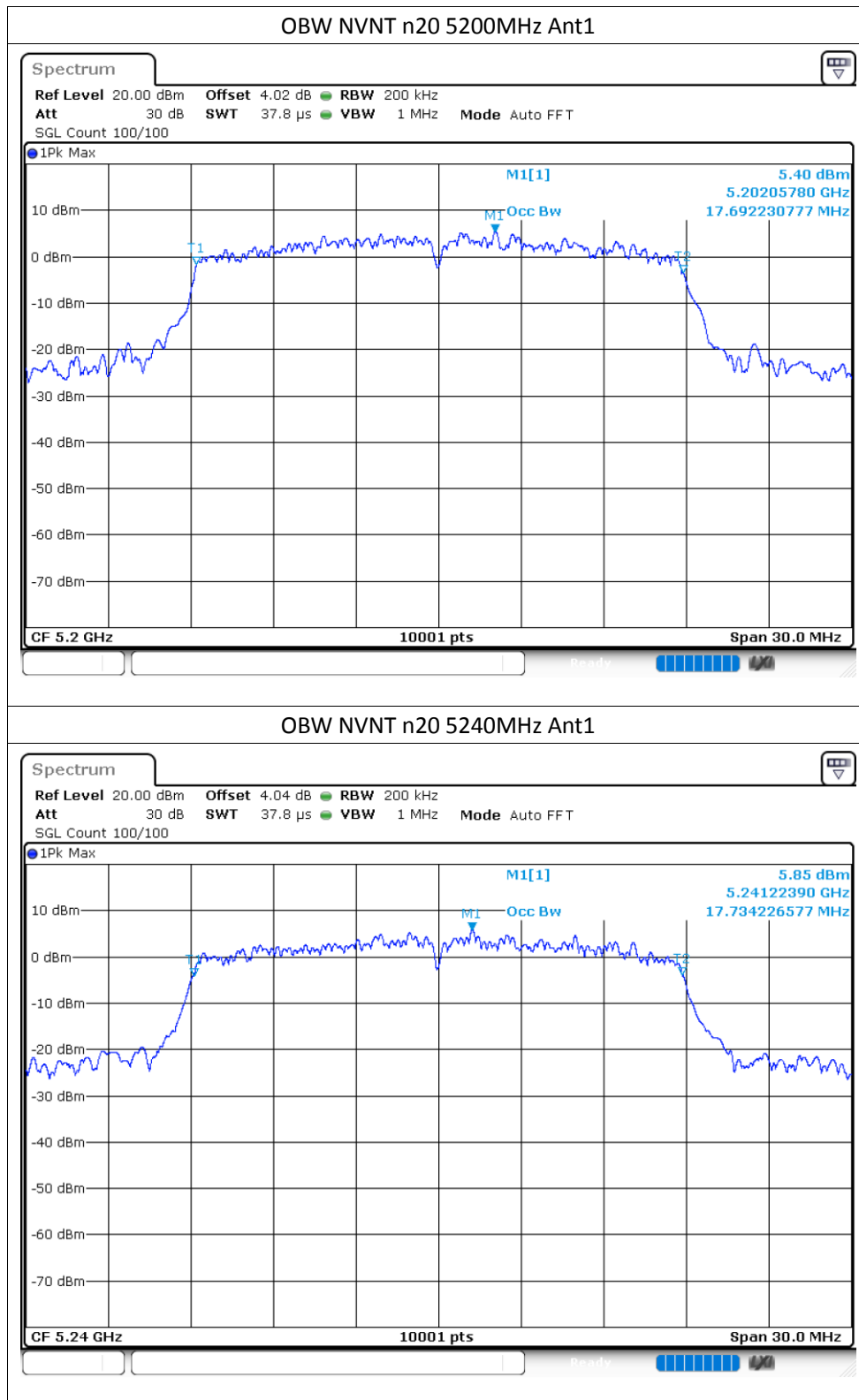


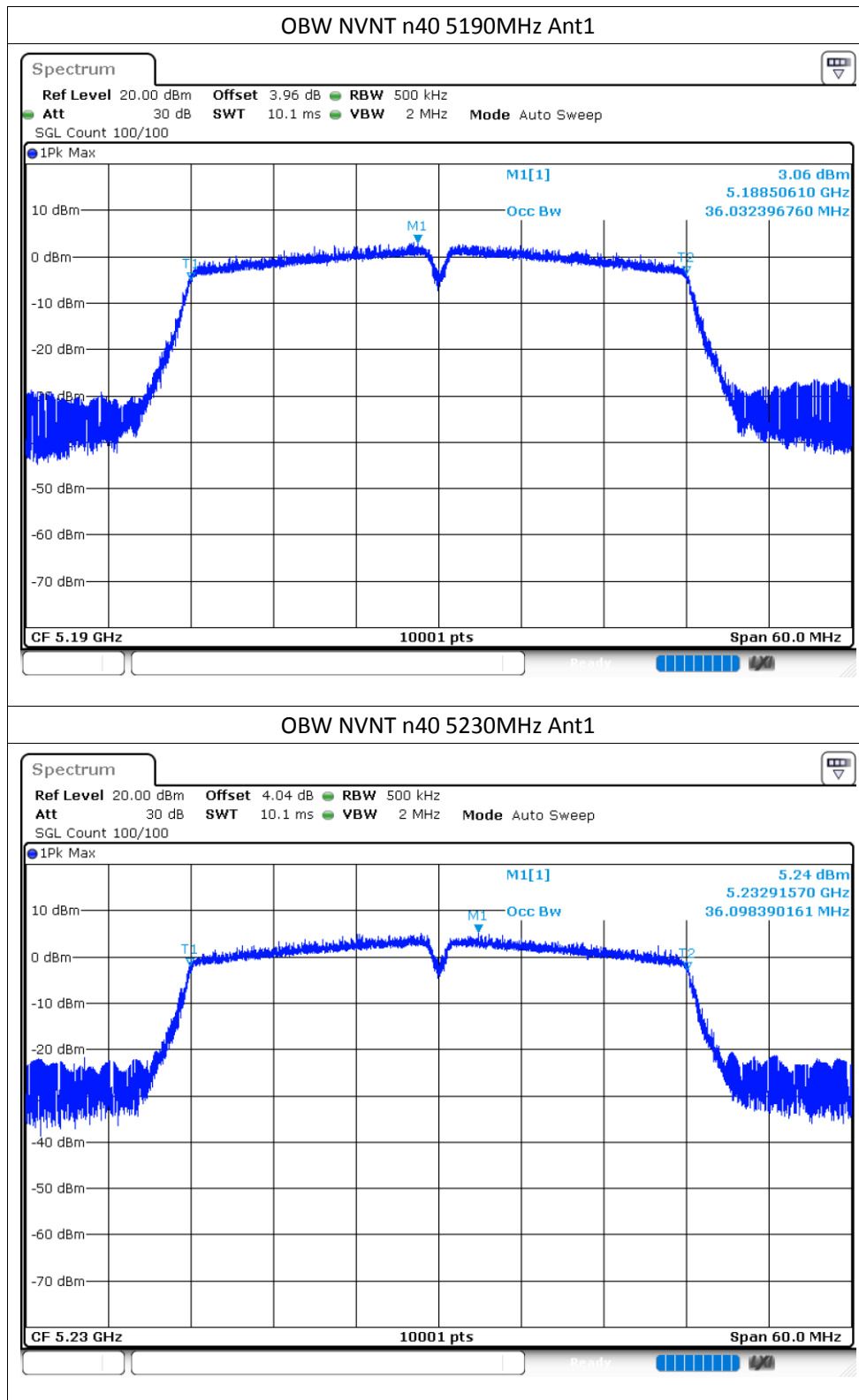
OBW NVNT a 5240MHz Ant1



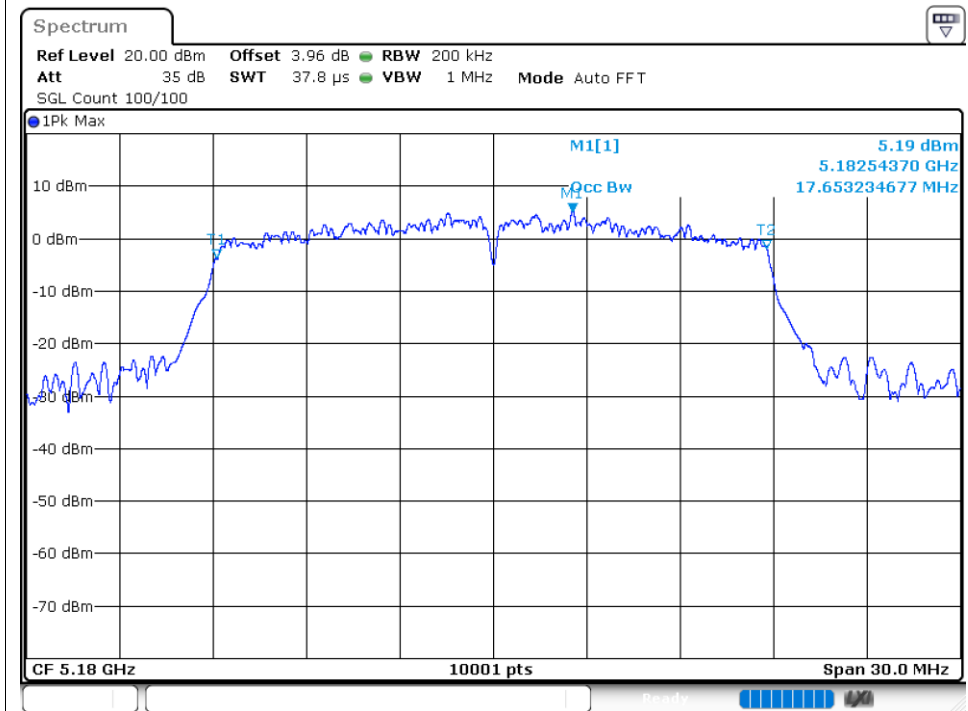
OBW NVNT n20 5180MHz Ant1



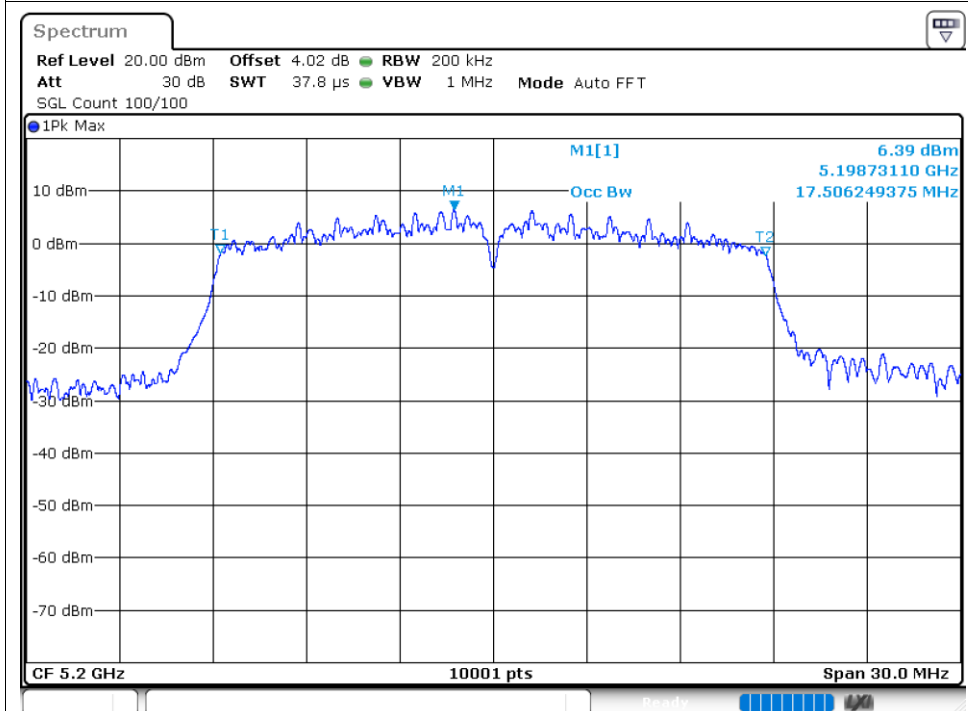




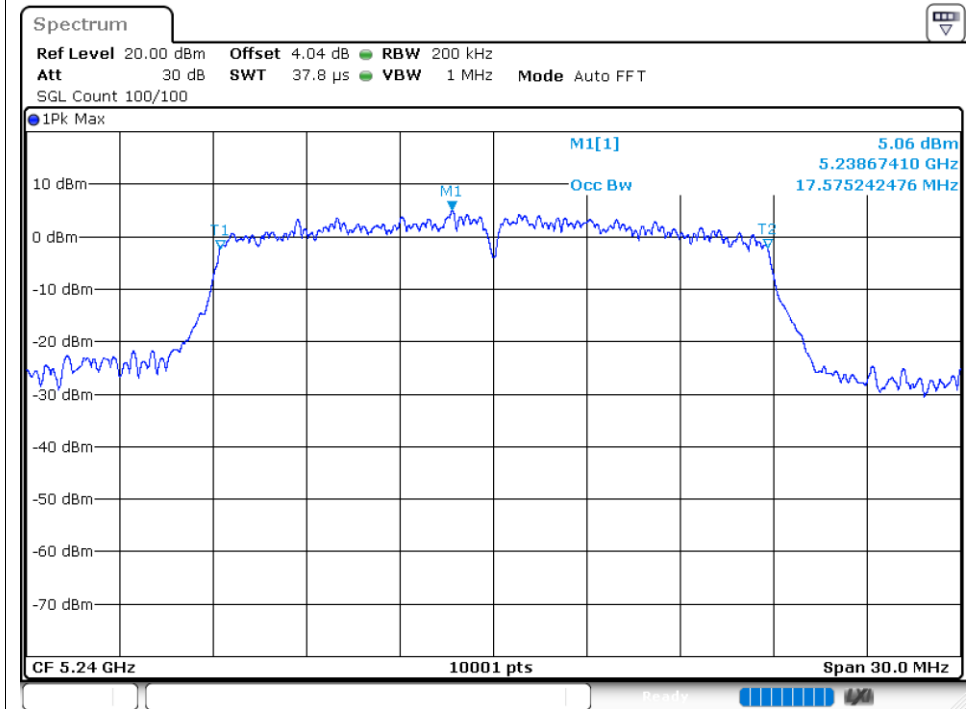
OBW NVNT ac20 5180MHz Ant1



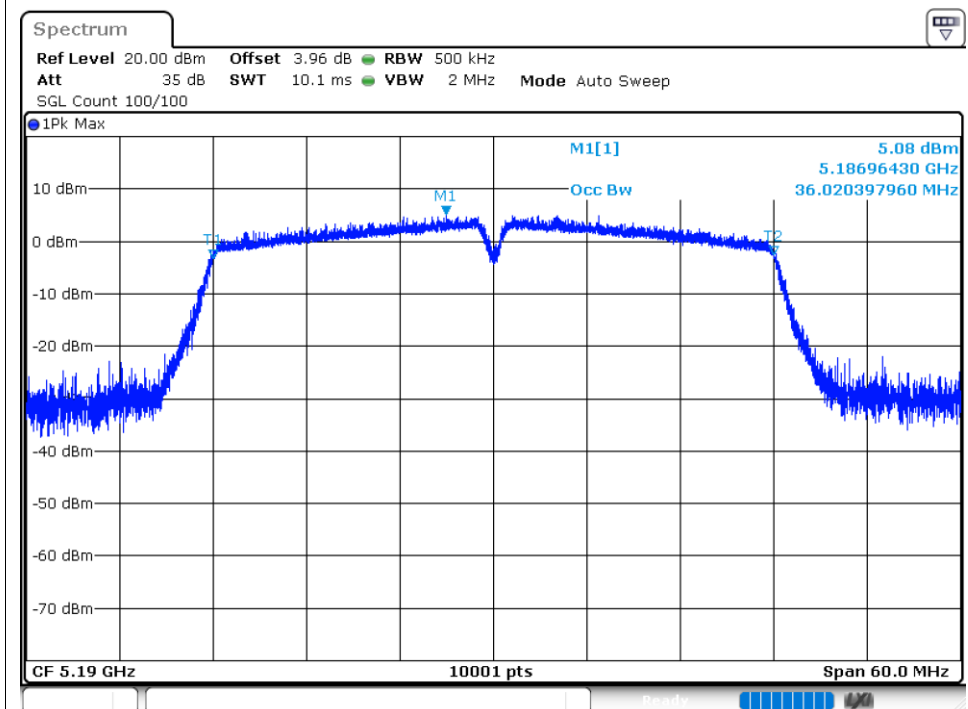
OBW NVNT ac20 5200MHz Ant1



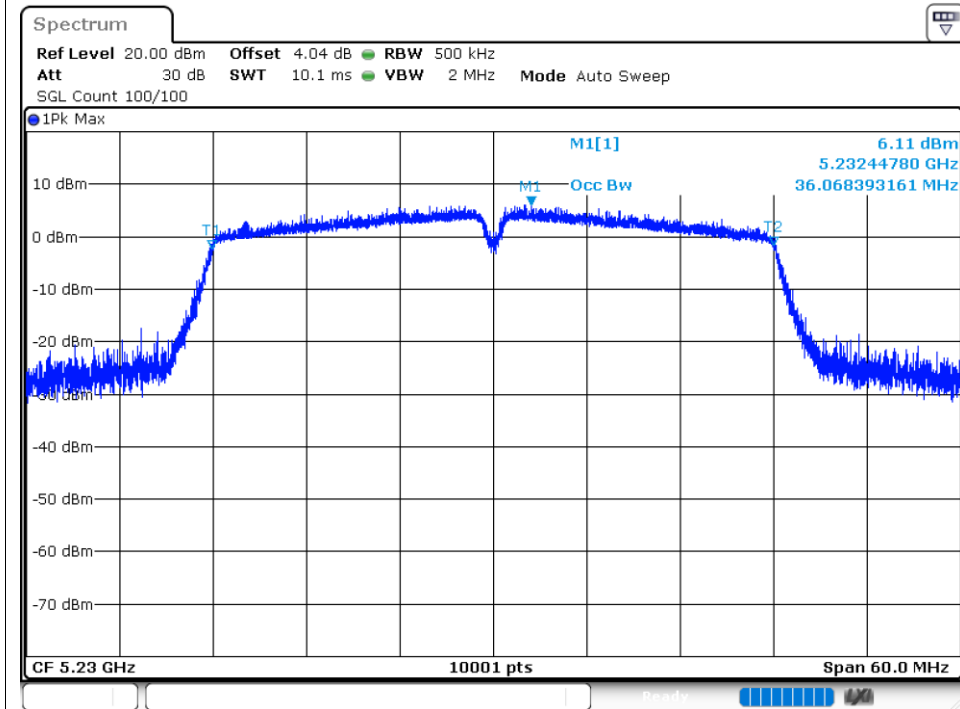
OBW NVNT ac20 5240MHz Ant1



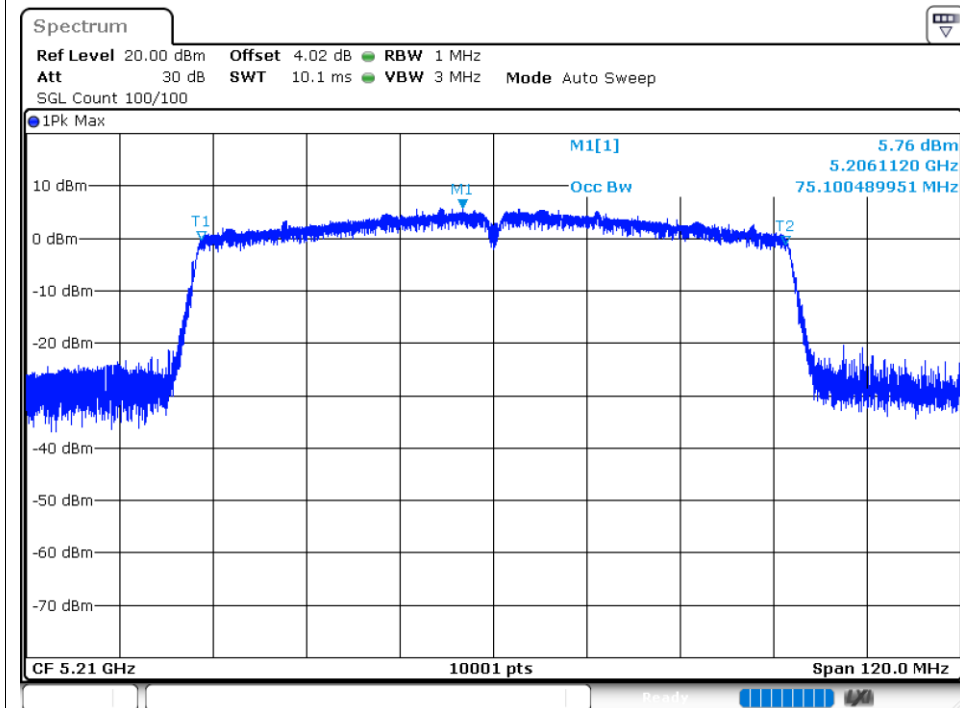
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1

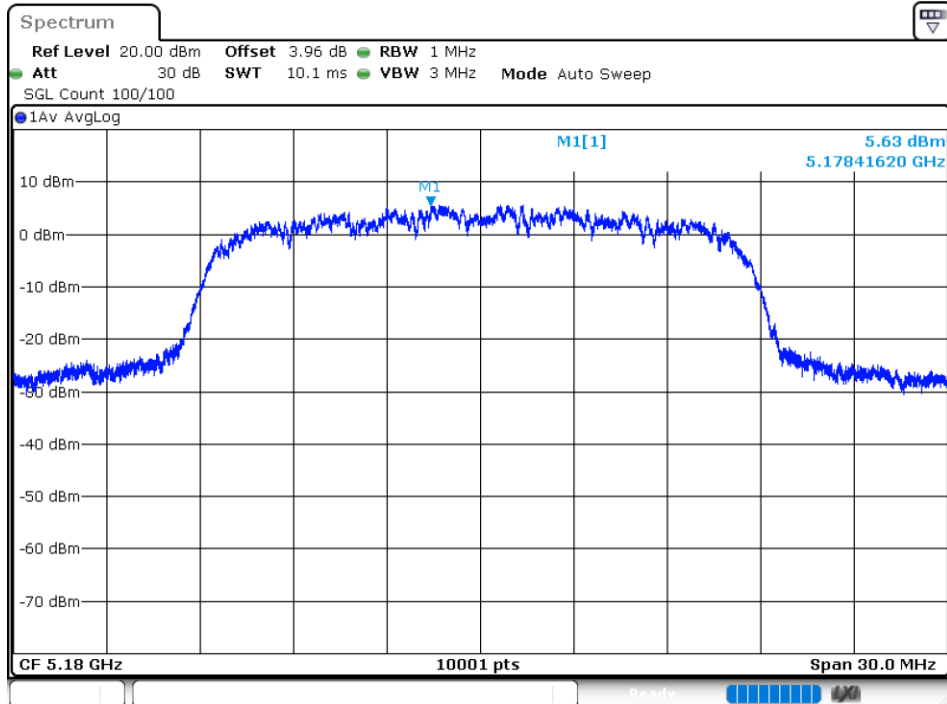


Maximum Power Spectral Density Level

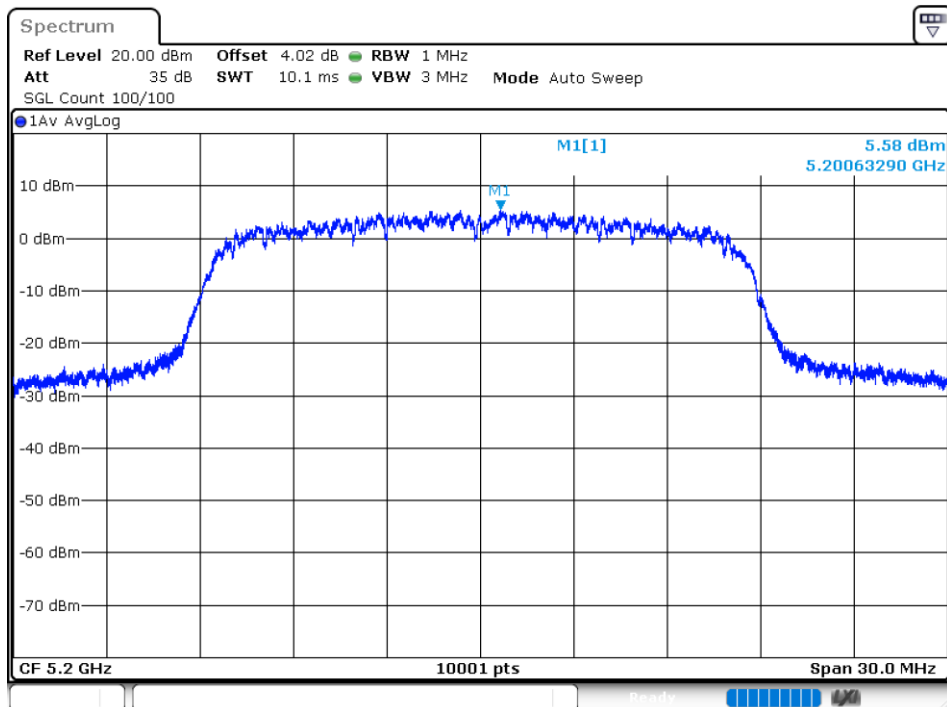
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.63	0.08	5.71	11	Pass
NVNT	a	5200	Ant1	5.58	0.08	5.66	11	Pass
NVNT	a	5240	Ant1	5.29	0.08	5.37	11	Pass
NVNT	n20	5180	Ant1	3.4	0.09	3.49	11	Pass
NVNT	n20	5200	Ant1	4.19	0.09	4.28	11	Pass
NVNT	n20	5240	Ant1	4.25	0.08	4.33	11	Pass
NVNT	n40	5190	Ant1	-3.63	0.21	-3.42	11	Pass
NVNT	n40	5230	Ant1	-1.95	0.24	-1.71	11	Pass
NVNT	ac20	5180	Ant1	4.06	0.08	4.14	11	Pass
NVNT	ac20	5200	Ant1	3.67	0.09	3.76	11	Pass
NVNT	ac20	5240	Ant1	3.94	0.09	4.03	11	Pass
NVNT	ac40	5190	Ant1	-1.50	0.21	-1.29	11	Pass
NVNT	ac40	5230	Ant1	-0.18	0.21	0.03	11	Pass
NVNT	ac80	5210	Ant1	-8.84	0.67	-8.17	11	Pass

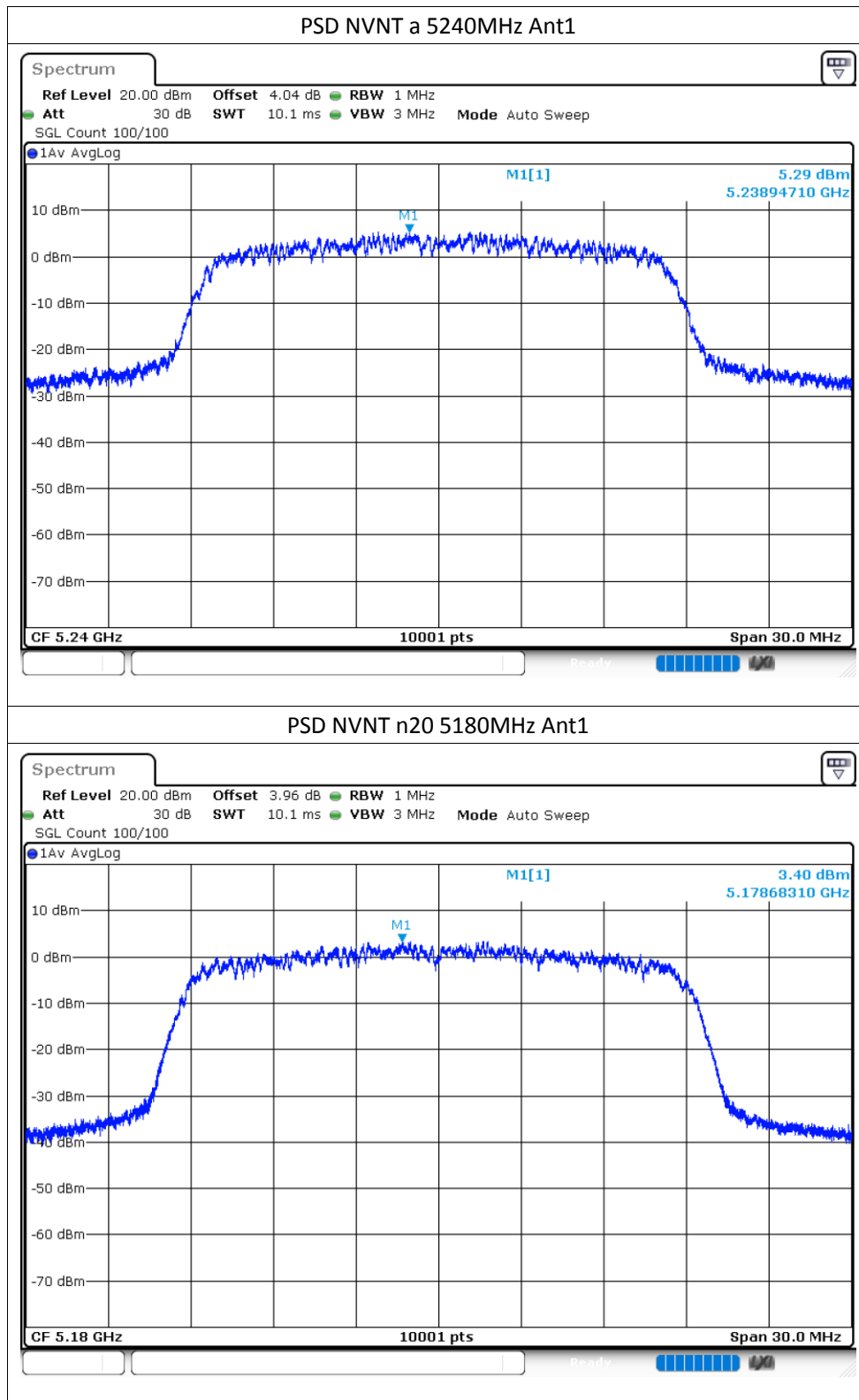
Test Graphs

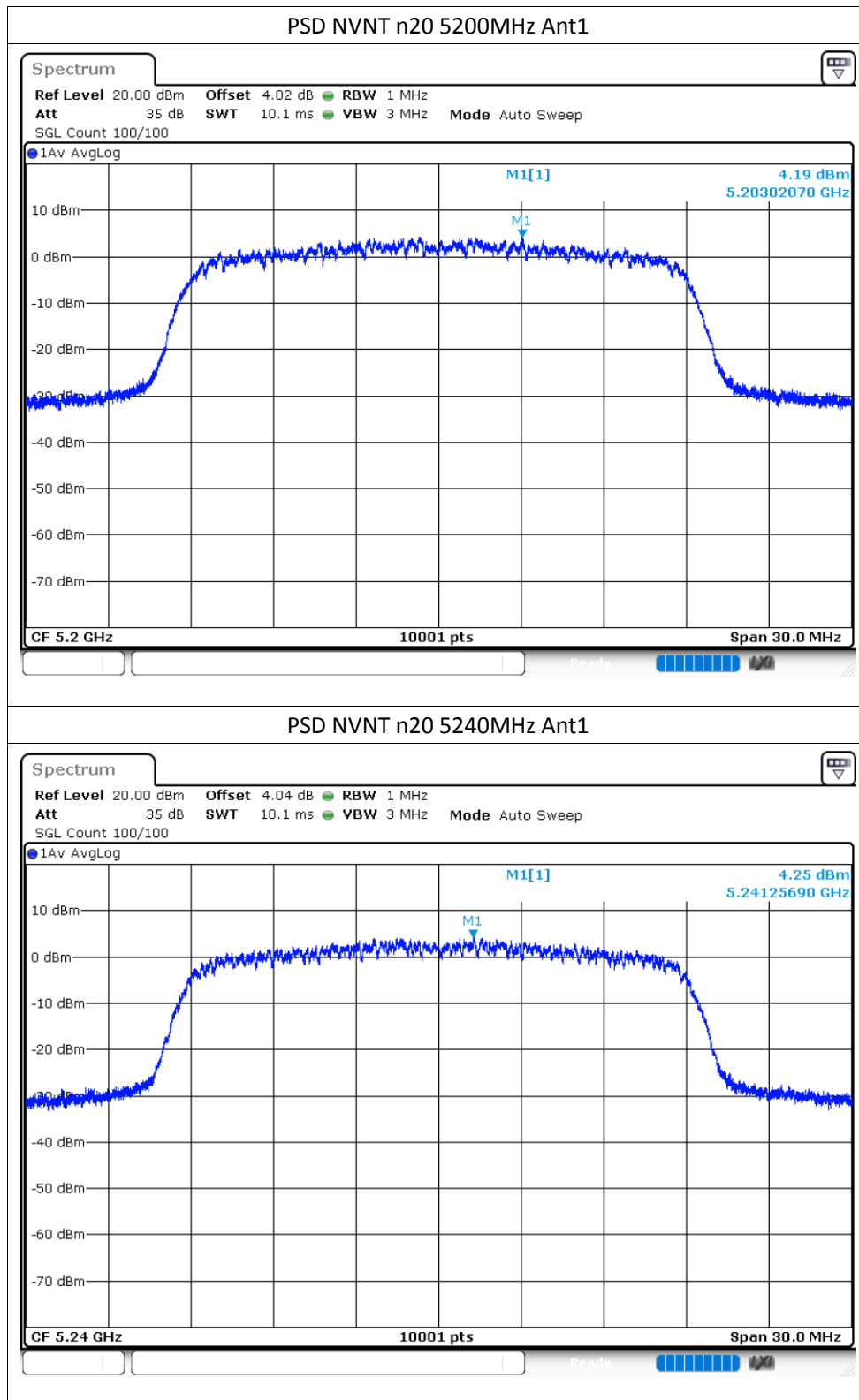
PSD NVNT a 5180MHz Ant1



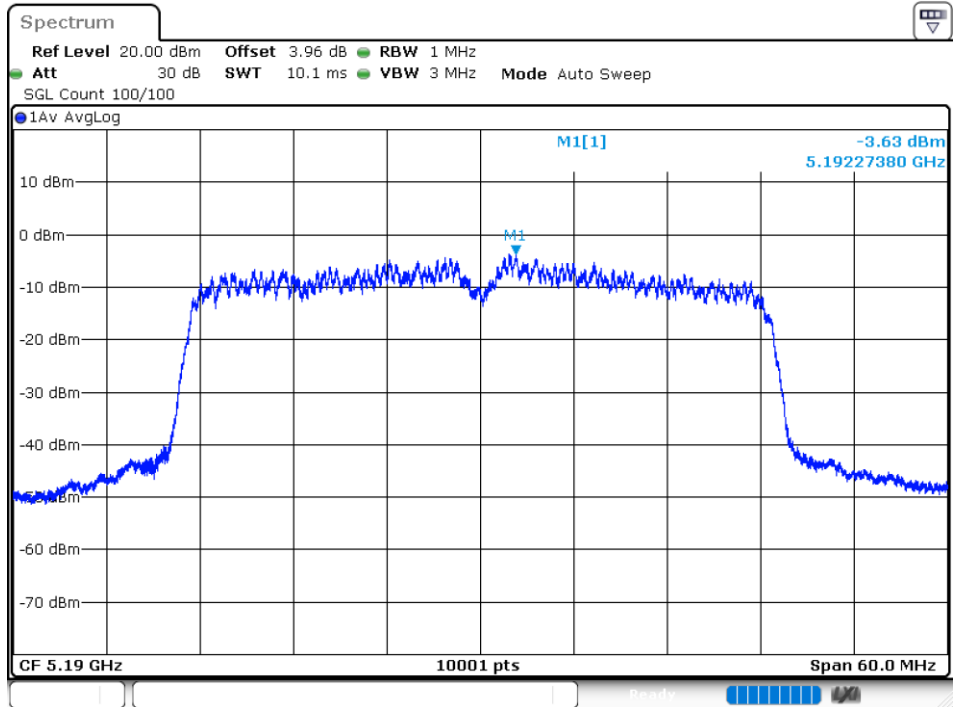
PSD NVNT a 5200MHz Ant1



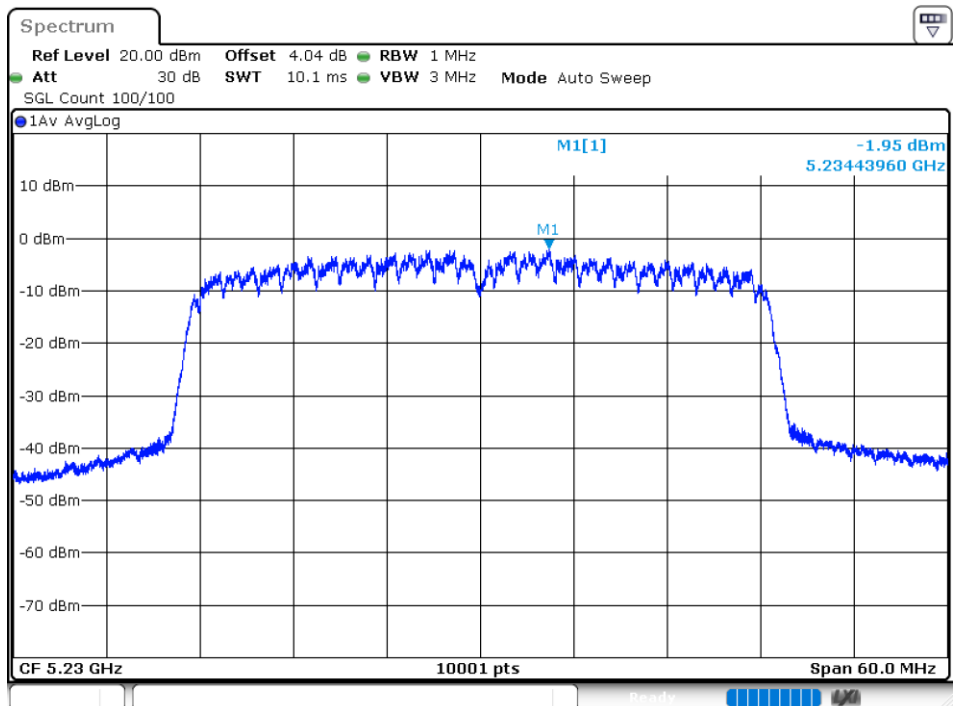


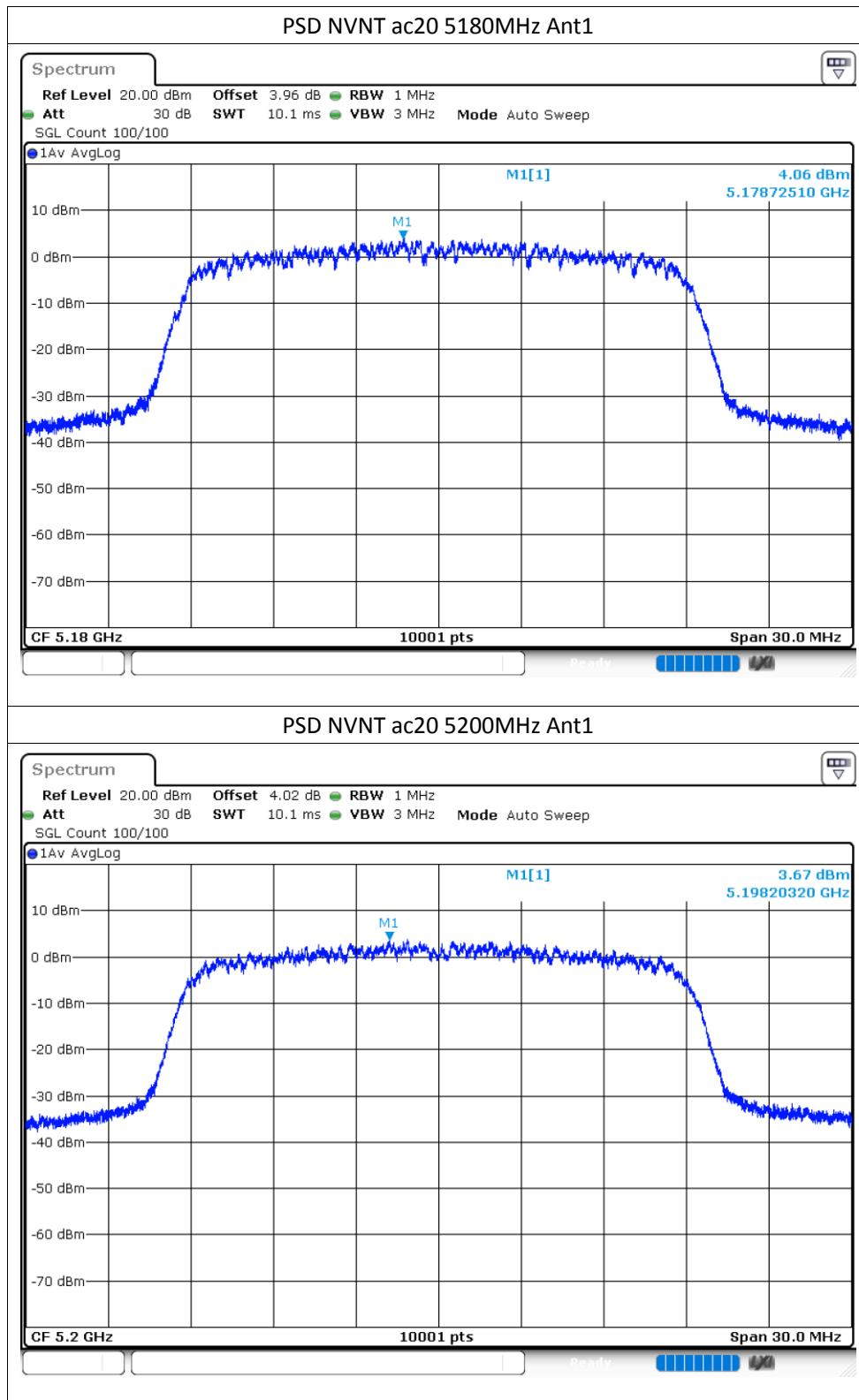


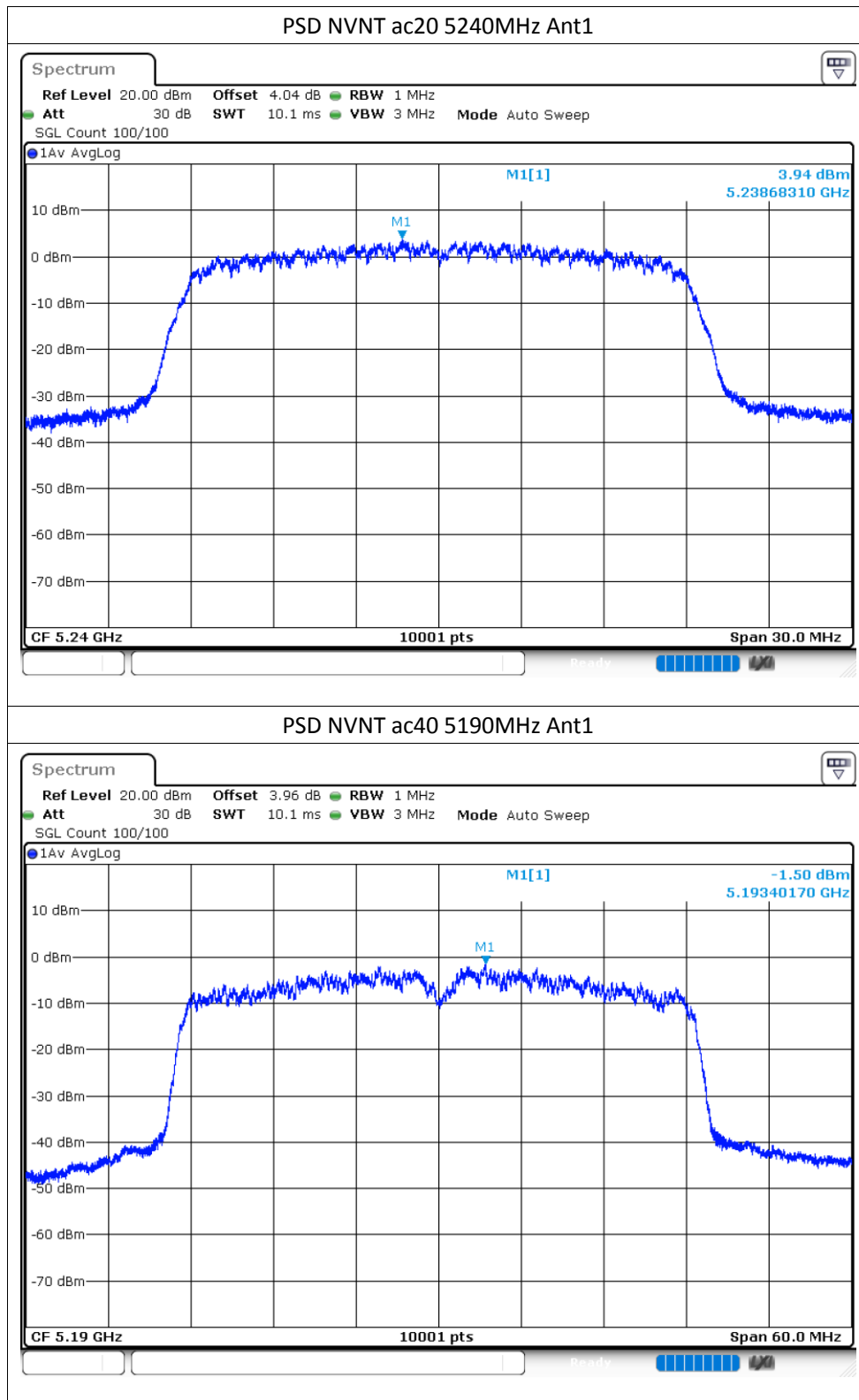
PSD NVNT n40 5190MHz Ant1



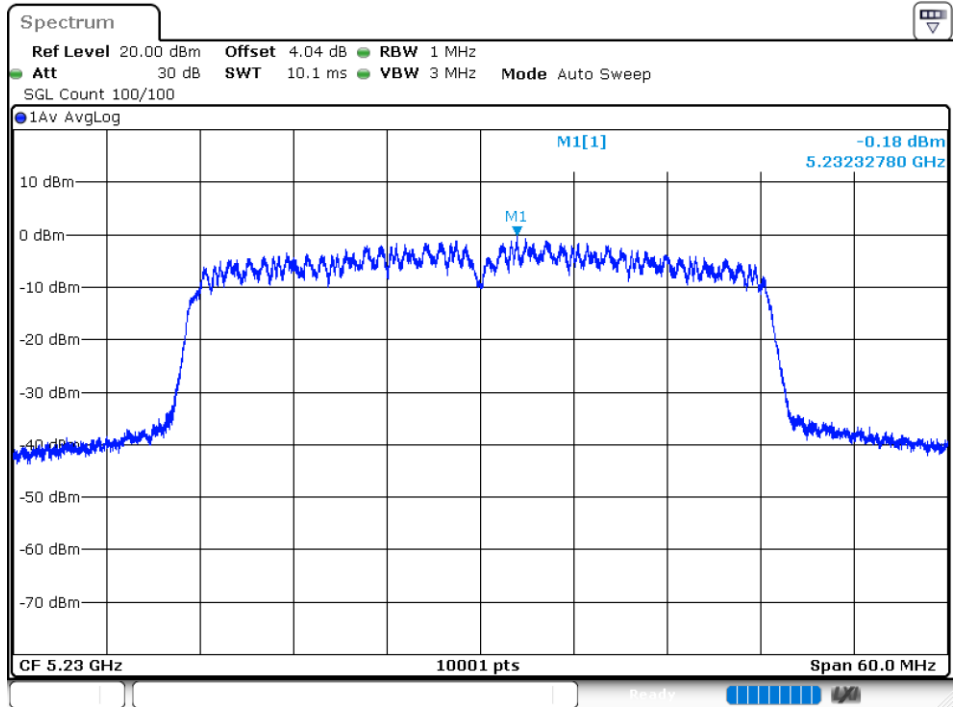
PSD NVNT n40 5230MHz Ant1



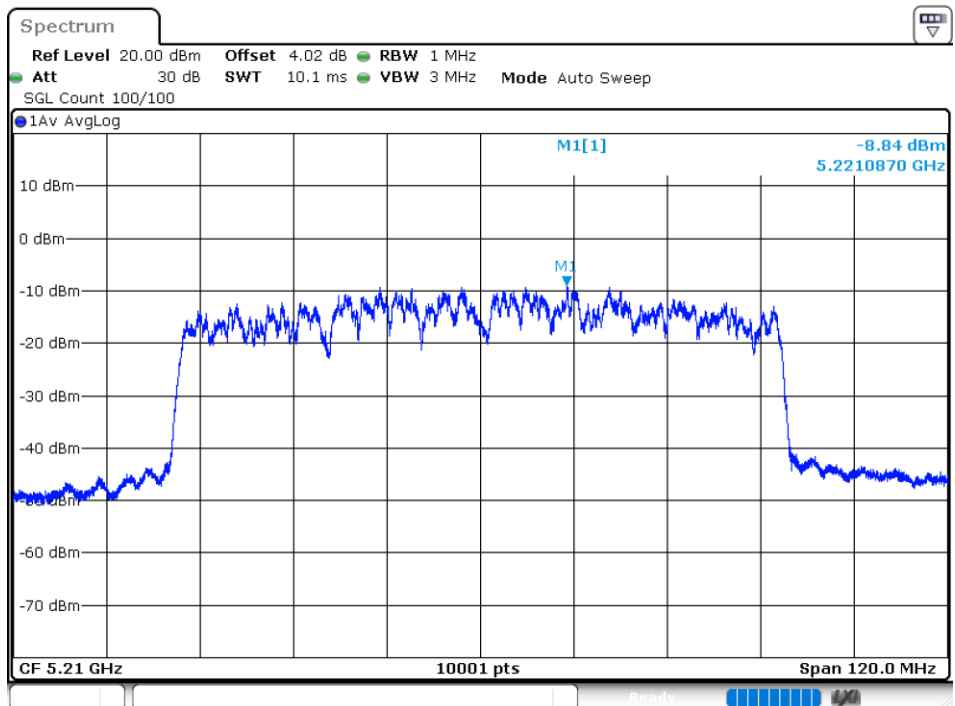




PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1



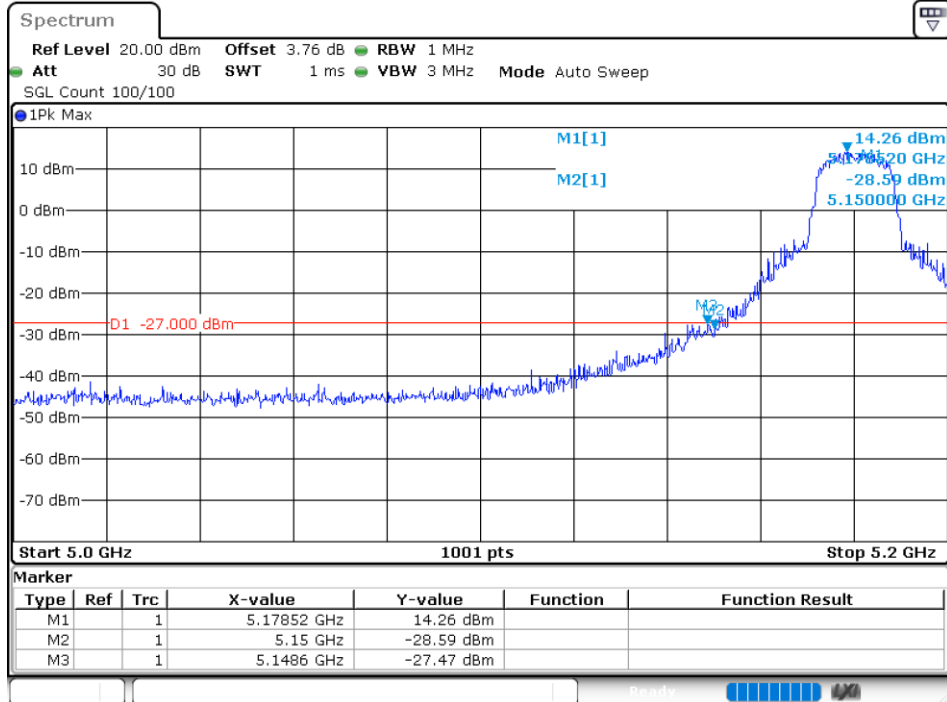
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-27.47	-27	Pass
NVNT	a	5240	Ant1	-41.75	-27	Pass
NVNT	n20	5180	Ant1	-29.46	-27	Pass
NVNT	n20	5240	Ant1	-43.36	-27	Pass
NVNT	n40	5190	Ant1	-28.25	-27	Pass
NVNT	n40	5230	Ant1	-43.34	-27	Pass
NVNT	ac20	5180	Ant1	-29.31	-27	Pass
NVNT	ac20	5240	Ant1	-43.19	-27	Pass
NVNT	ac40	5190	Ant1	-29.23	-27	Pass
NVNT	ac40	5230	Ant1	-42.89	-27	Pass
NVNT	ac80	5210	Ant1	-31.05	-27	Pass
NVNT	ac80	5210	Ant1	-44.36	-27	Pass

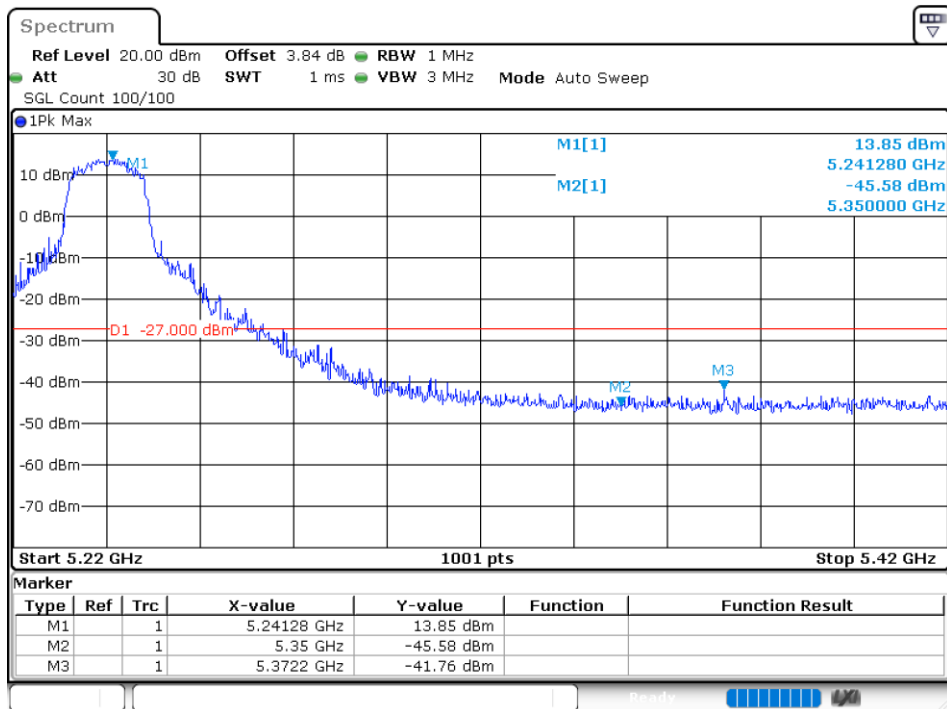
Note: This test has increased antenna gain.

Test Graphs

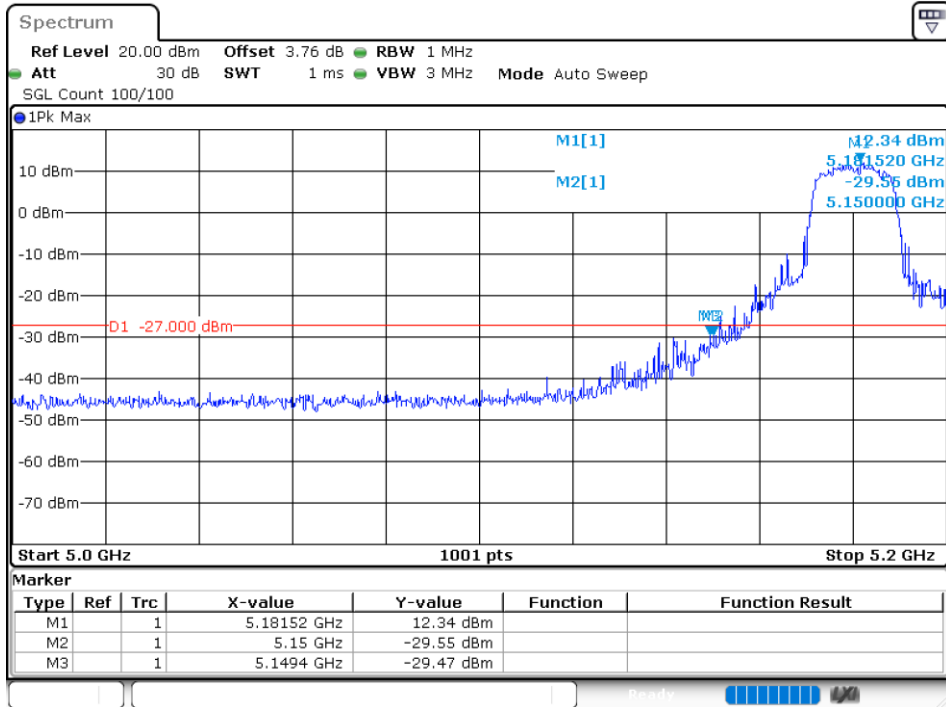
Band Edge NVNT a 5180MHz Low Ant1



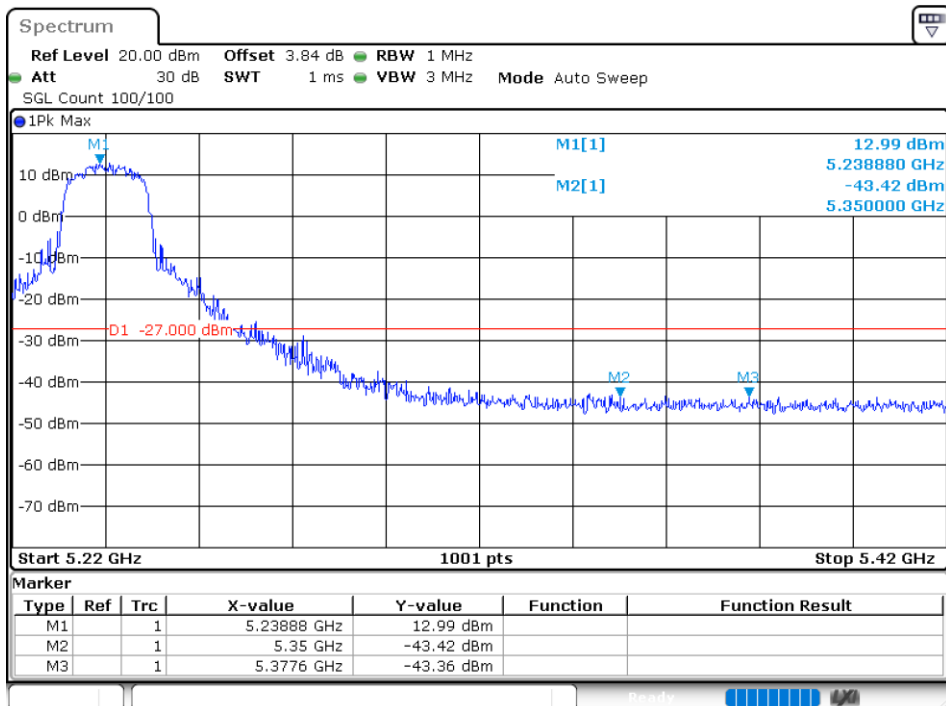
Band Edge NVNT a 5240MHz High Ant1



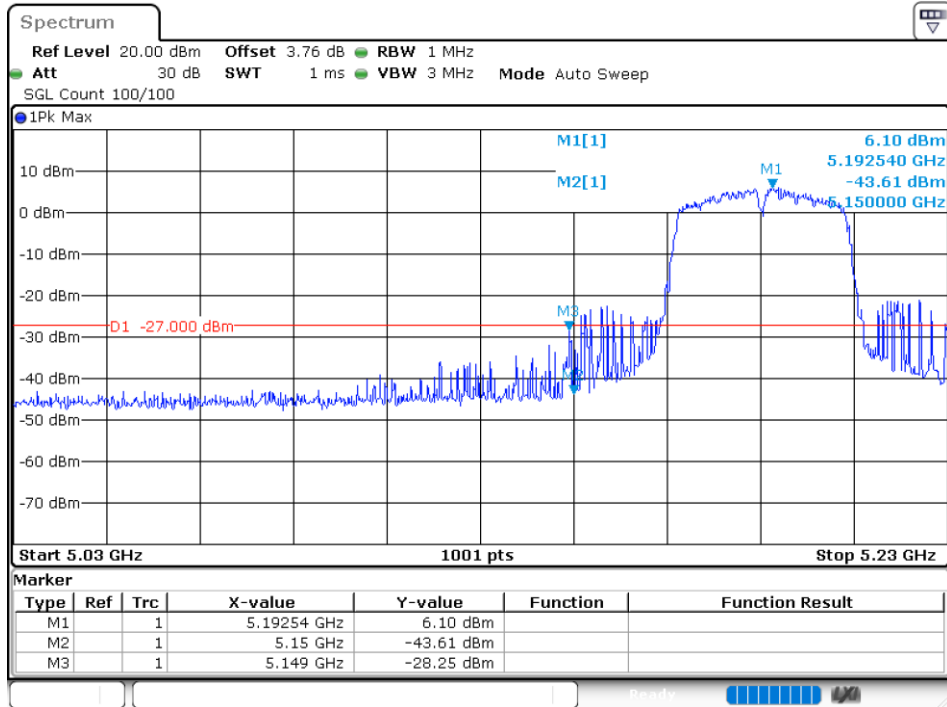
Band Edge NVNT n20 5180MHz Low Ant1



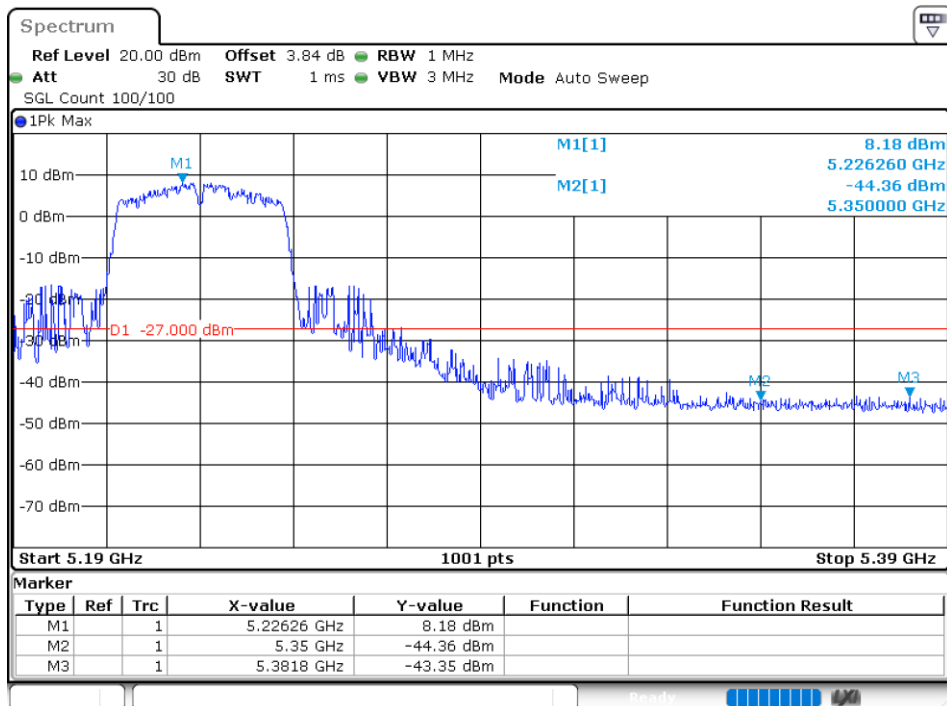
Band Edge NVNT n20 5240MHz High Ant1



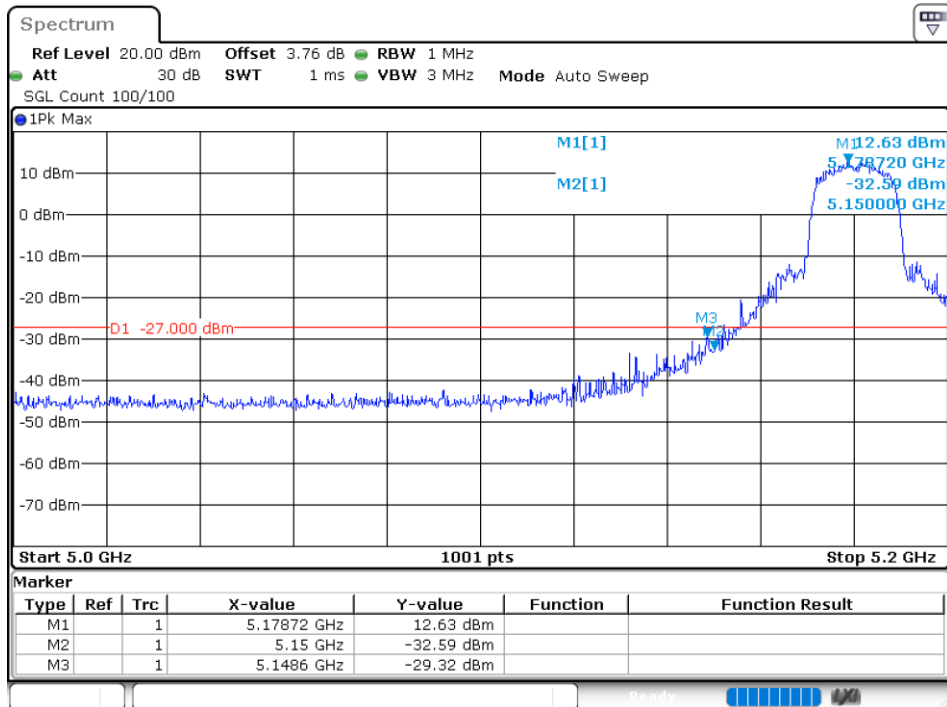
Band Edge NVNT n40 5190MHz Low Ant1



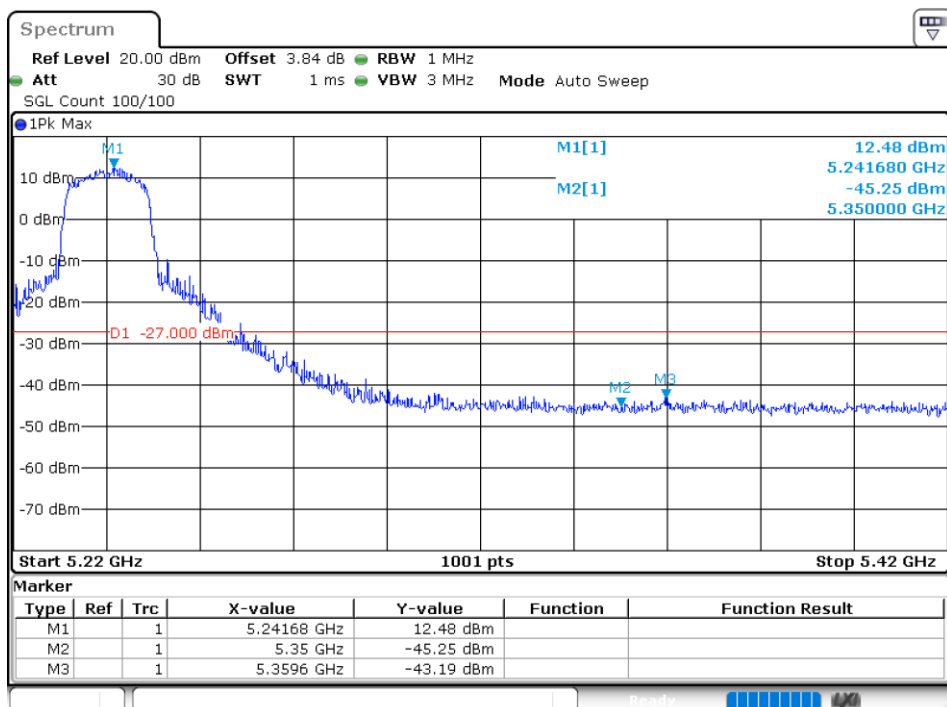
Band Edge NVNT n40 5230MHz High Ant1



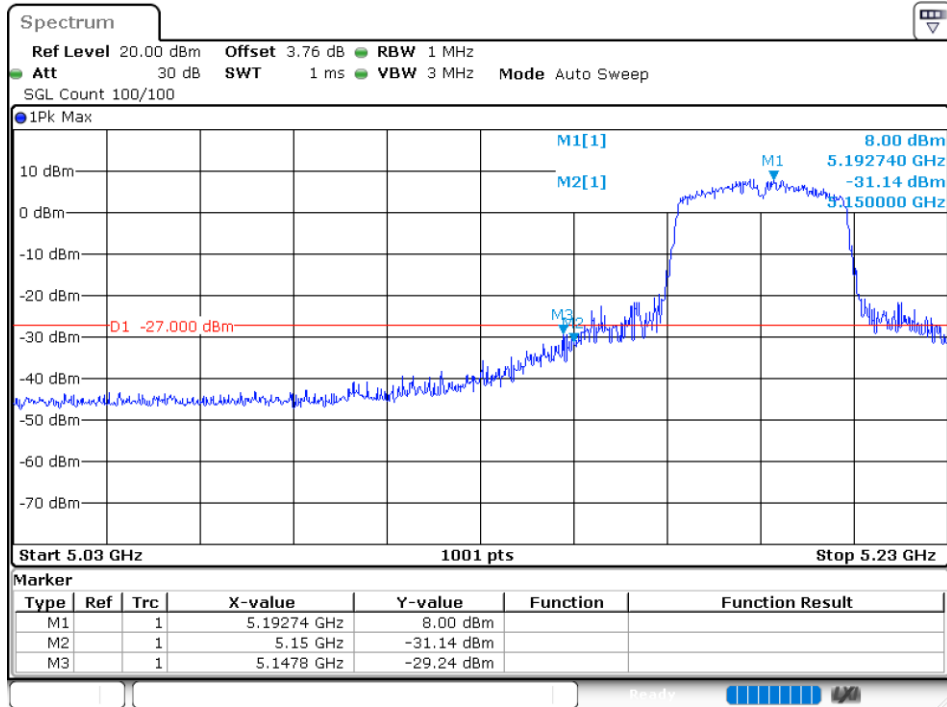
Band Edge NVNT ac20 5180MHz Low Ant1



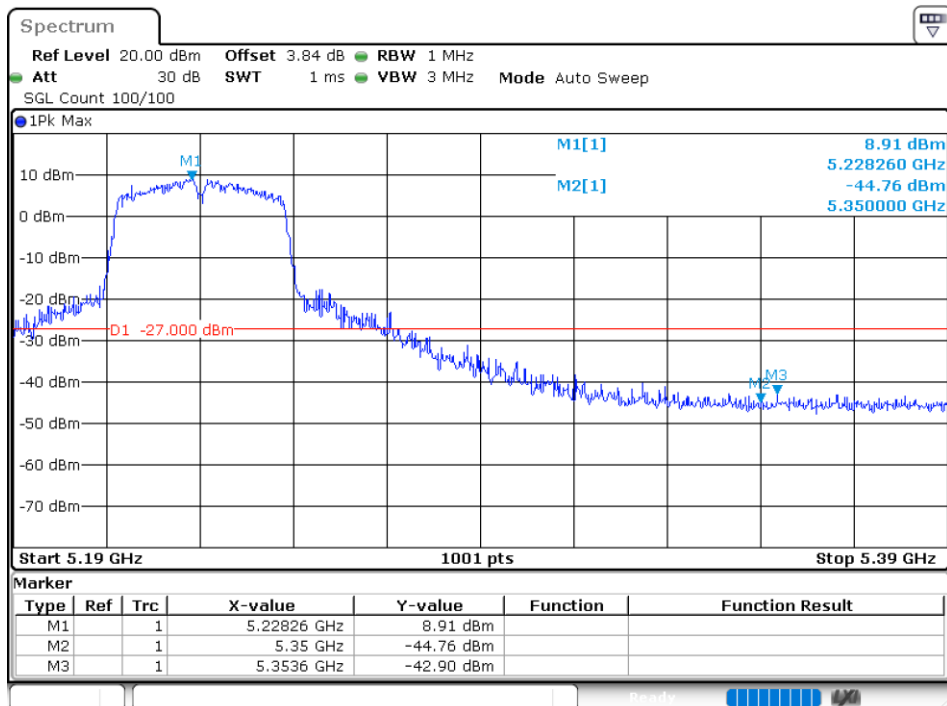
Band Edge NVNT ac20 5240MHz High Ant1



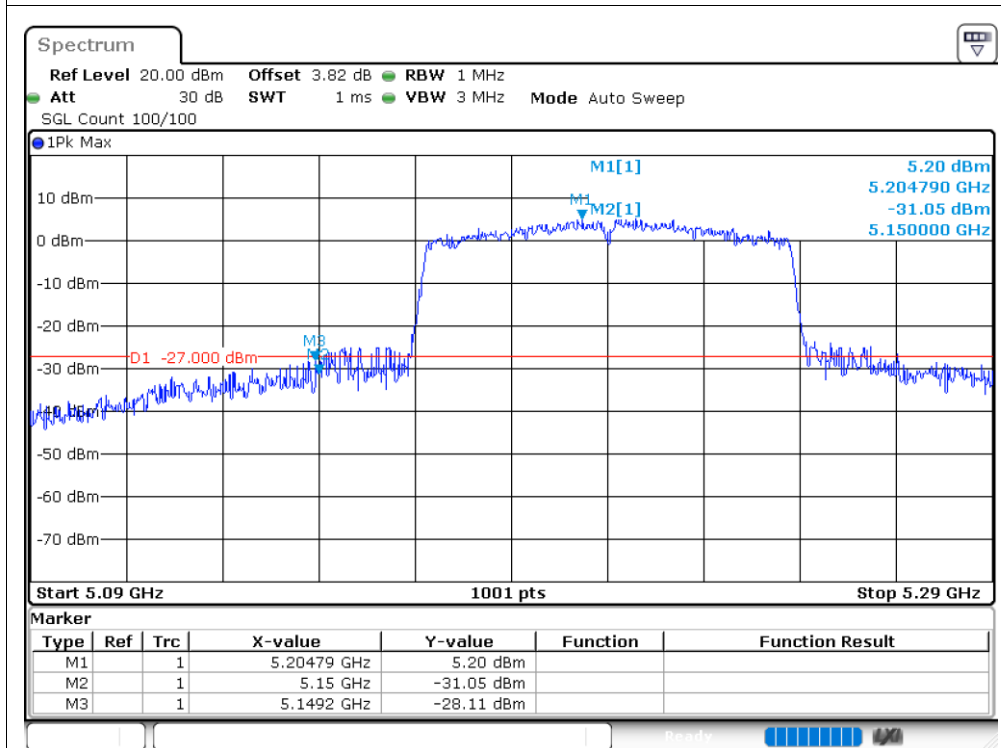
Band Edge NVNT ac40 5190MHz Low Ant1



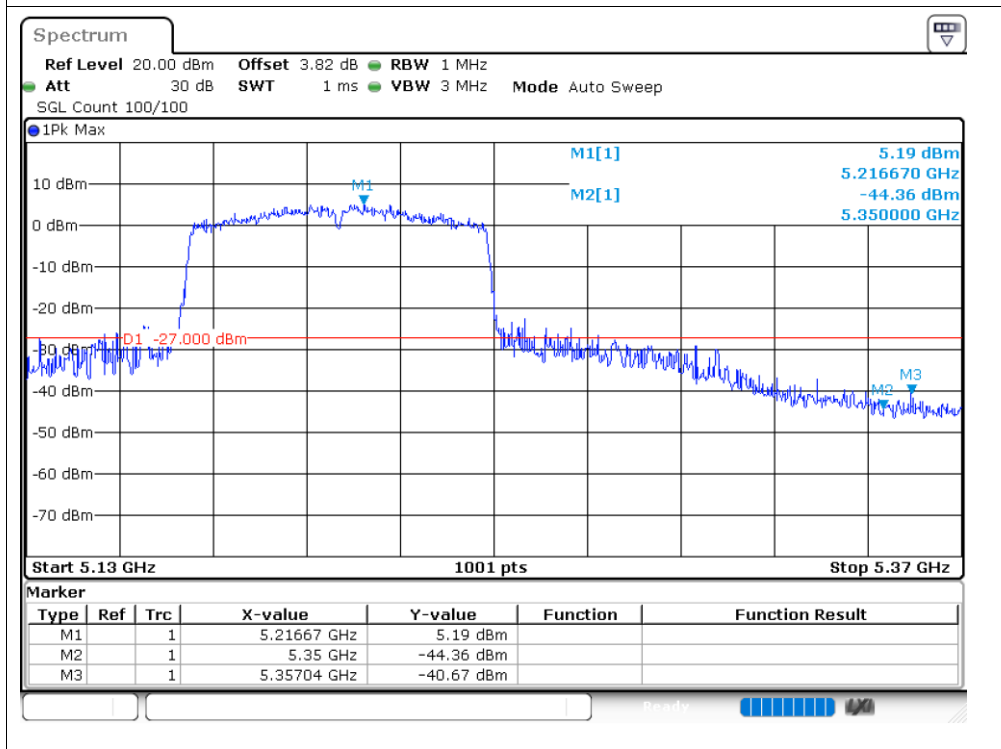
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1



Band Edge NVNT ac80 5210MHz High Ant1



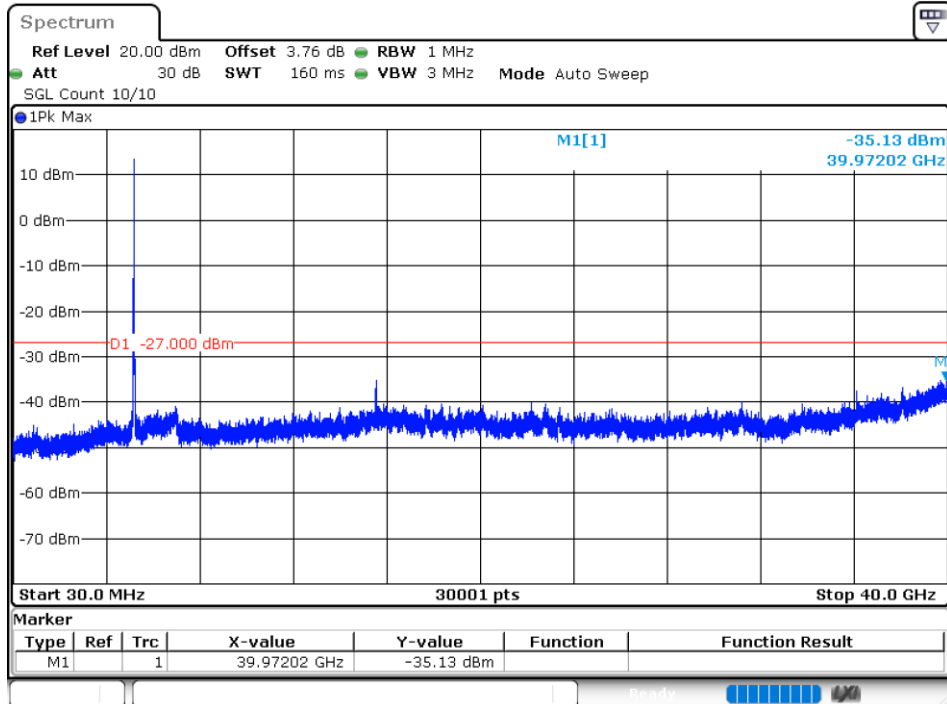
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-35.12	-27	Pass
NVNT	a	5200	Ant1	-35.29	-27	Pass
NVNT	a	5240	Ant1	-35.11	-27	Pass
NVNT	n20	5180	Ant1	-33.63	-27	Pass
NVNT	n20	5200	Ant1	-33.76	-27	Pass
NVNT	n20	5240	Ant1	-34.37	-27	Pass
NVNT	n40	5190	Ant1	-35.01	-27	Pass
NVNT	n40	5230	Ant1	-34.63	-27	Pass
NVNT	ac20	5180	Ant1	-33.47	-27	Pass
NVNT	ac20	5200	Ant1	-34.39	-27	Pass
NVNT	ac20	5240	Ant1	-34.52	-27	Pass
NVNT	ac40	5190	Ant1	-34.19	-27	Pass
NVNT	ac40	5230	Ant1	-34.33	-27	Pass
NVNT	ac80	5210	Ant1	-33.72	-27	Pass

Note: This test has increased antenna gain .

Test Graphs

Tx. Spurious NVNT a 5180MHz Ant1 Emission



Tx. Spurious NVNT a 5200MHz Ant1 Emission

