

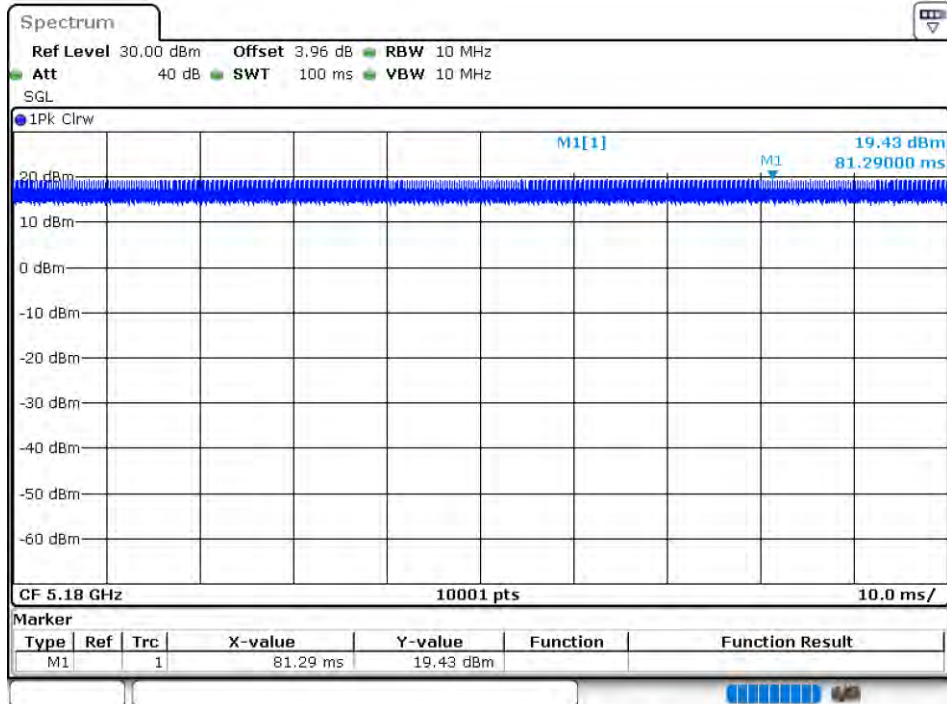
5.2G WIFI

Duty Cycle

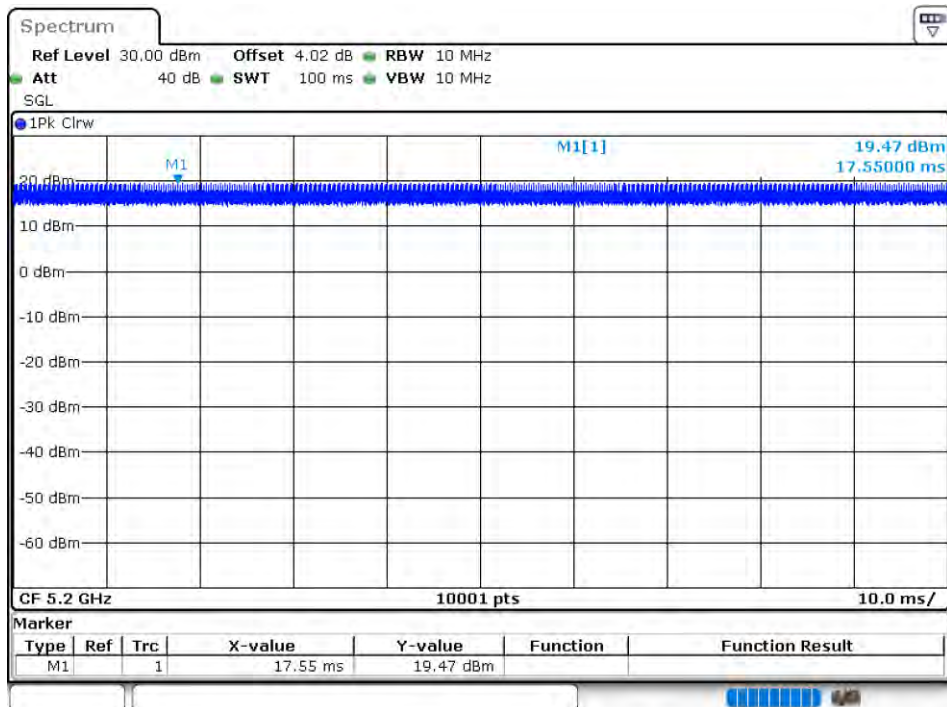
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant0	100	0	0
NVNT	a	5200	Ant0	100	0	0
NVNT	a	5240	Ant0	100	0	0
NVNT	a	5180	Ant1	100	0	0
NVNT	a	5200	Ant1	100	0	0
NVNT	a	5240	Ant1	100	0	0
NVNT	n20	5180	Ant0	100	0	0
NVNT	n20	5200	Ant0	100	0	0
NVNT	n20	5240	Ant0	100	0	0
NVNT	n20	5180	Ant1	100	0	0
NVNT	n20	5200	Ant1	100	0	0
NVNT	n20	5240	Ant1	100	0	0
NVNT	n40	5190	Ant0	100	0	0
NVNT	n40	5230	Ant0	100	0	0
NVNT	n40	5190	Ant1	100	0	0
NVNT	n40	5230	Ant1	100	0	0
NVNT	ac20	5180	Ant0	100	0	0
NVNT	ac20	5200	Ant0	100	0	0
NVNT	ac20	5240	Ant0	100	0	0
NVNT	ac20	5180	Ant1	100	0	0
NVNT	ac20	5200	Ant1	100	0	0
NVNT	ac20	5240	Ant1	100	0	0
NVNT	ac40	5190	Ant0	100	0	0
NVNT	ac40	5230	Ant0	100	0	0
NVNT	ac40	5190	Ant1	100	0	0
NVNT	ac40	5230	Ant1	100	0	0
NVNT	ac80	5210	Ant0	100	0	0
NVNT	ac80	5210	Ant1	100	0	0

Test Graphs

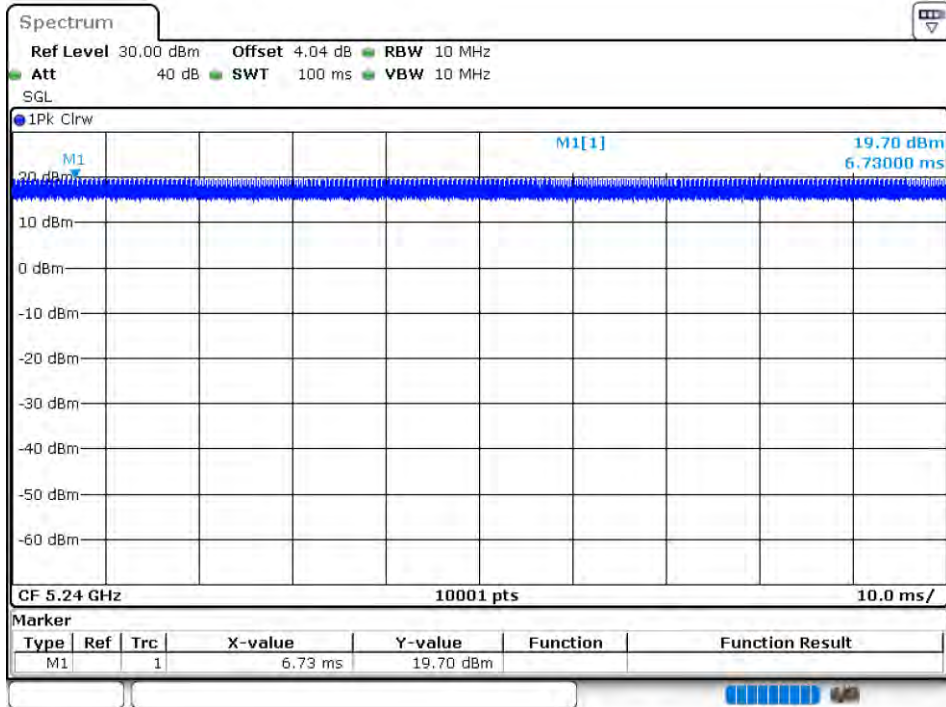
Duty Cycle NVNT a 5180MHz Ant0



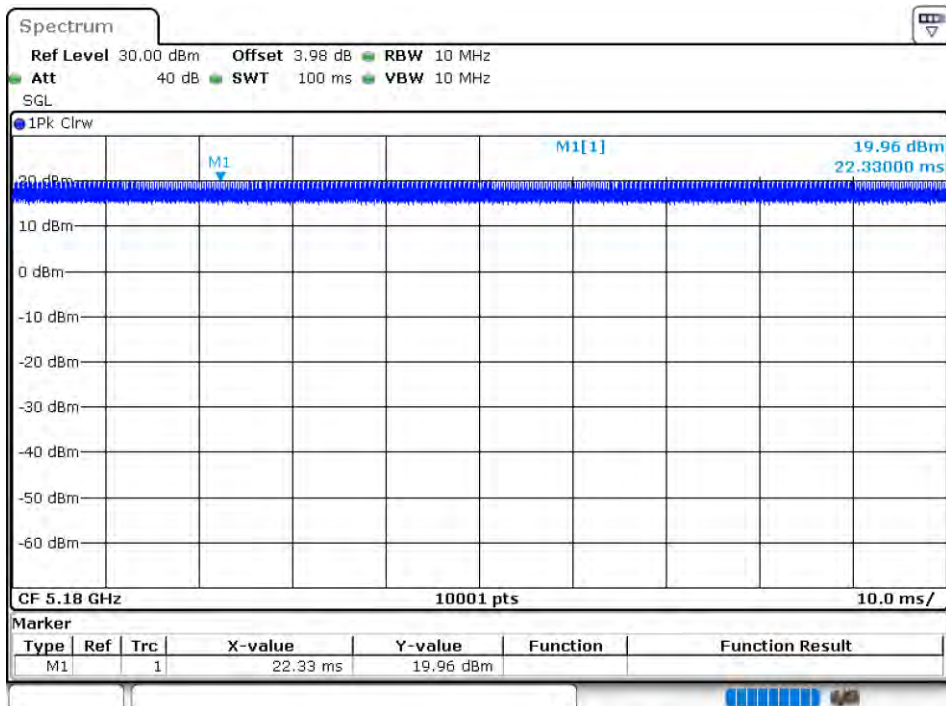
Duty Cycle NVNT a 5200MHz Ant0



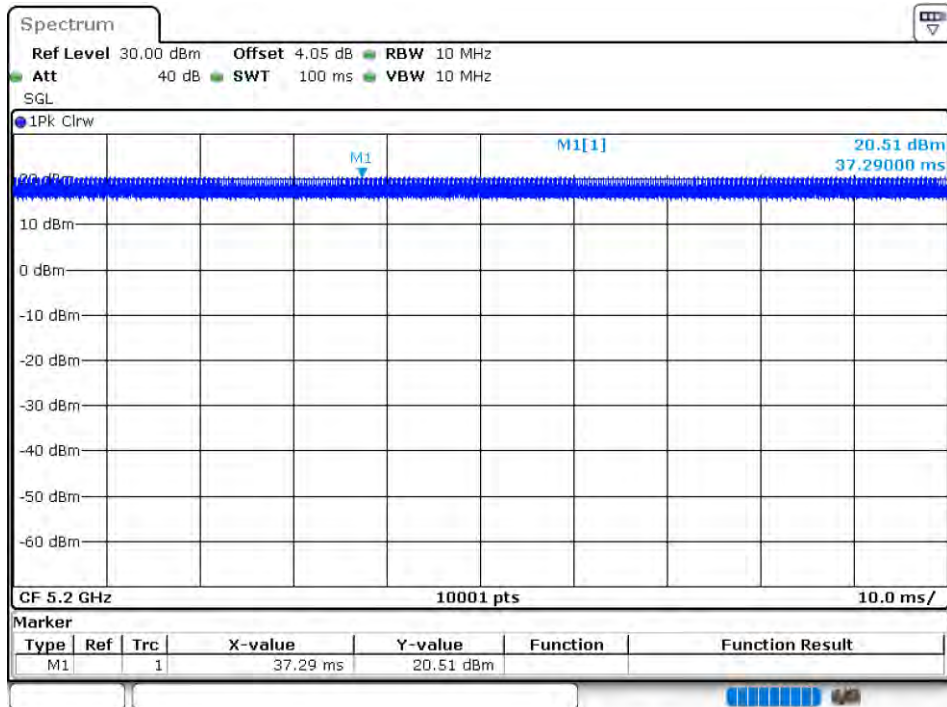
Duty Cycle NVNT a 5240MHz Ant0



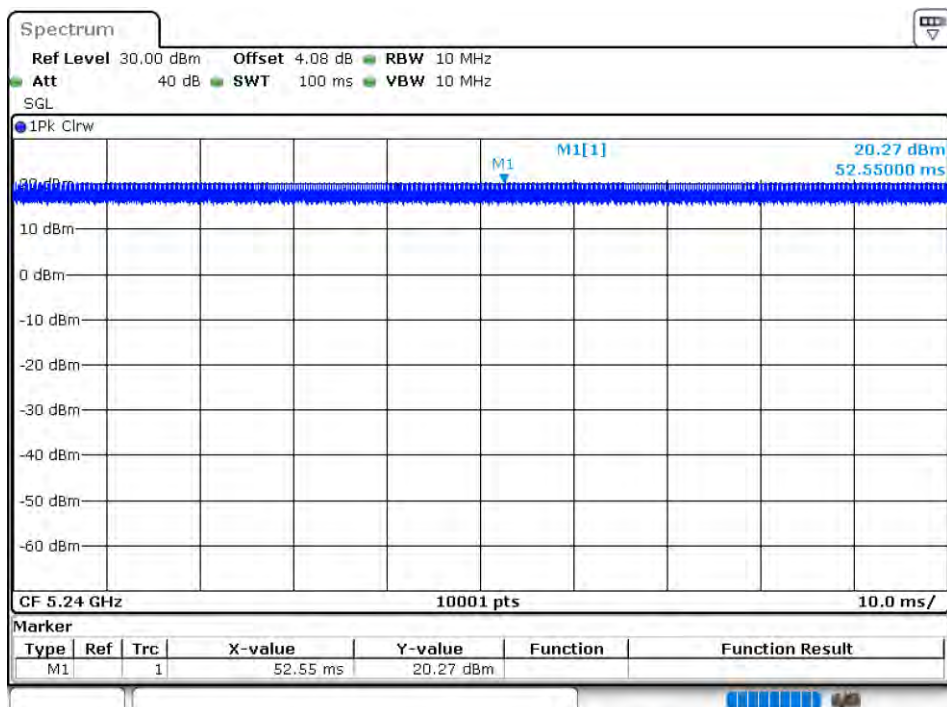
Duty Cycle NVNT a 5180MHz Ant1

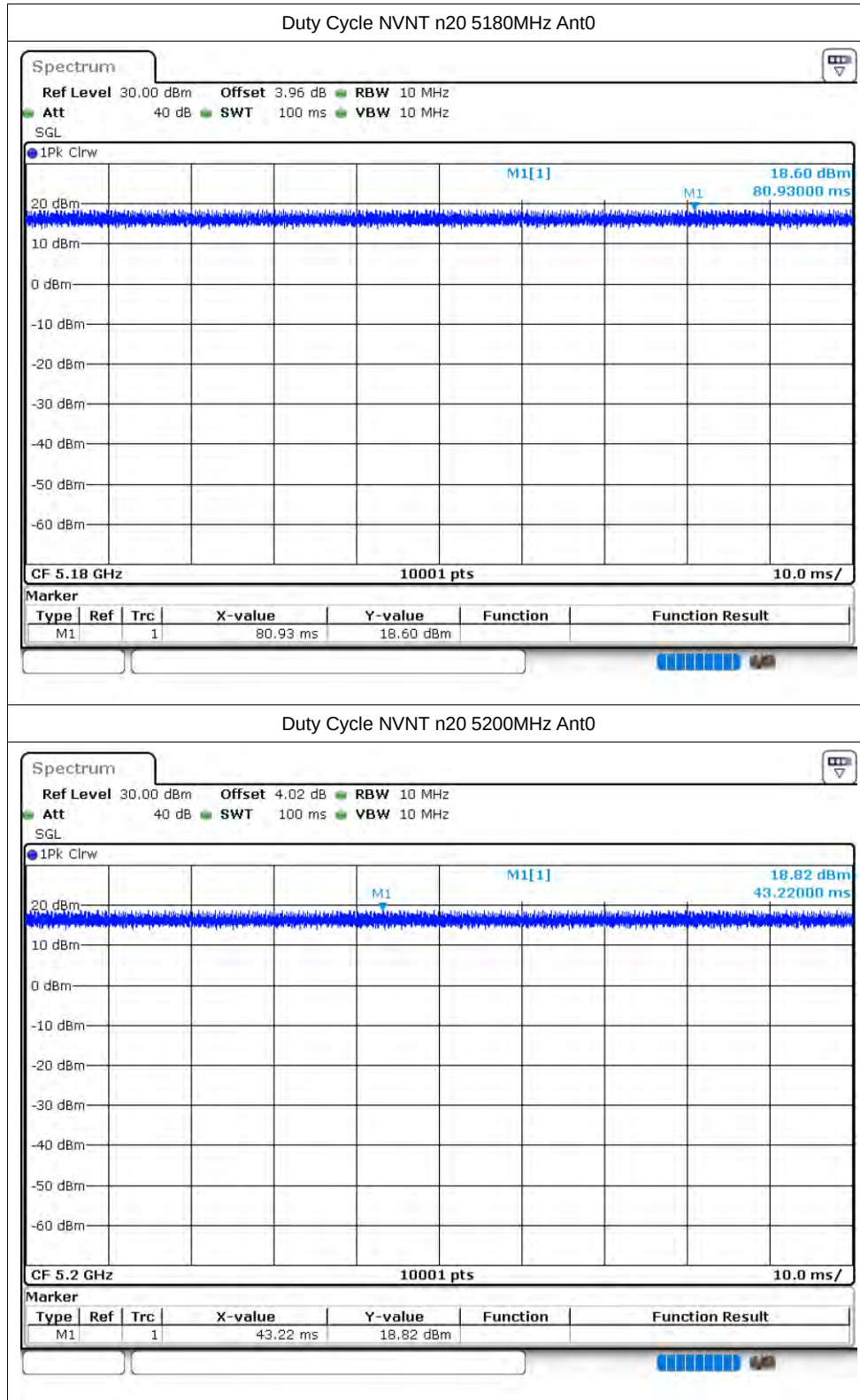


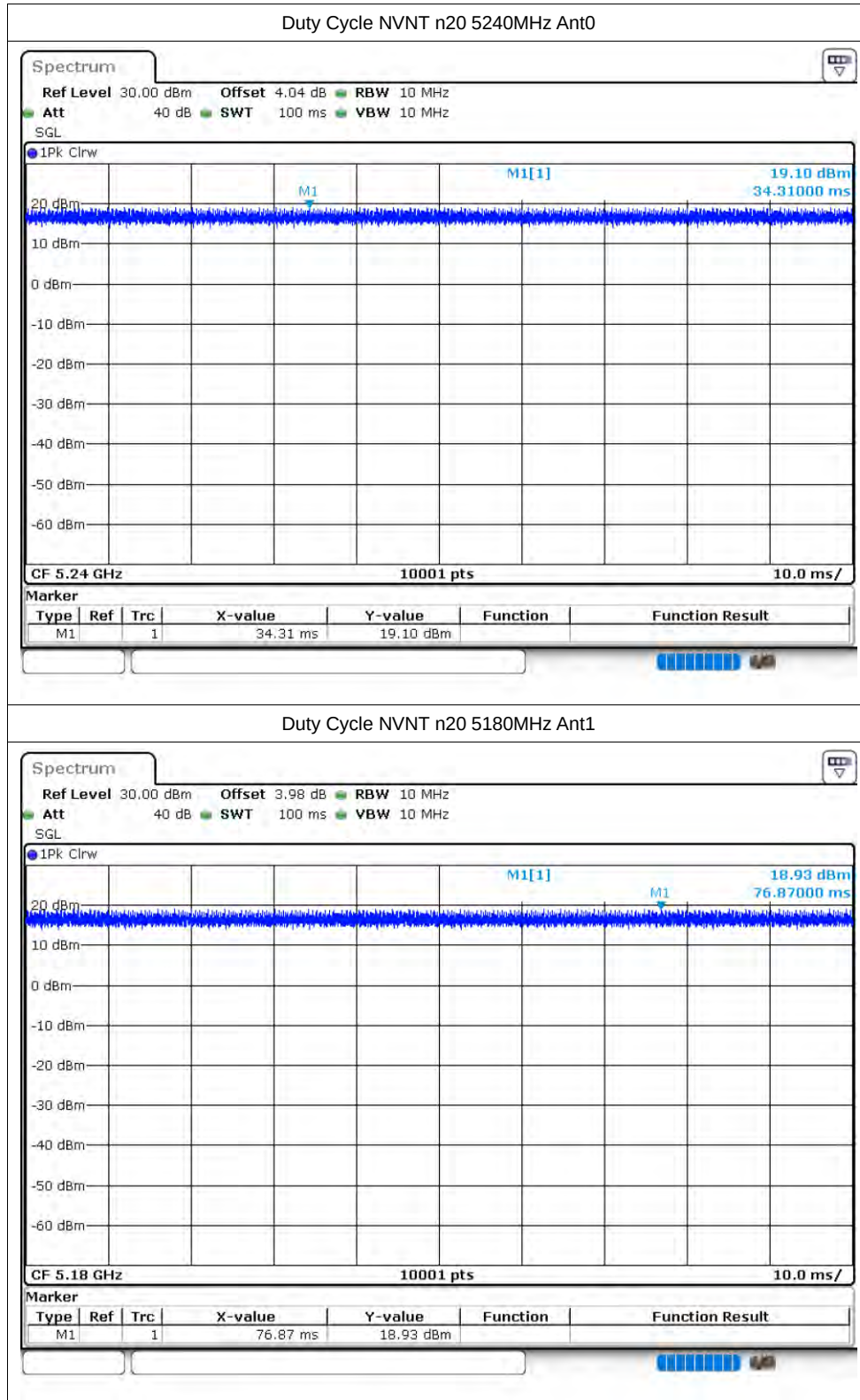
Duty Cycle NVNT a 5200MHz Ant1

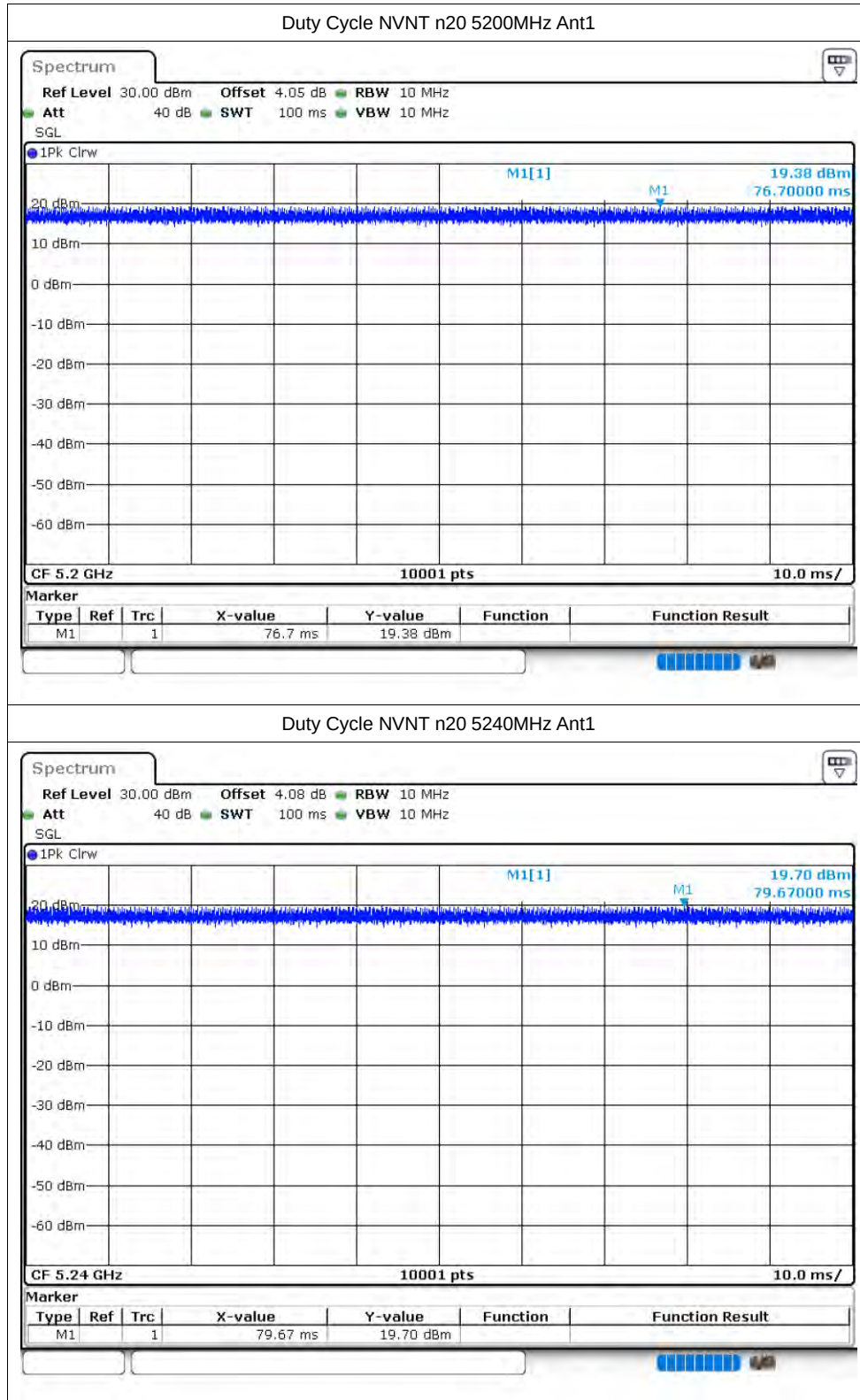


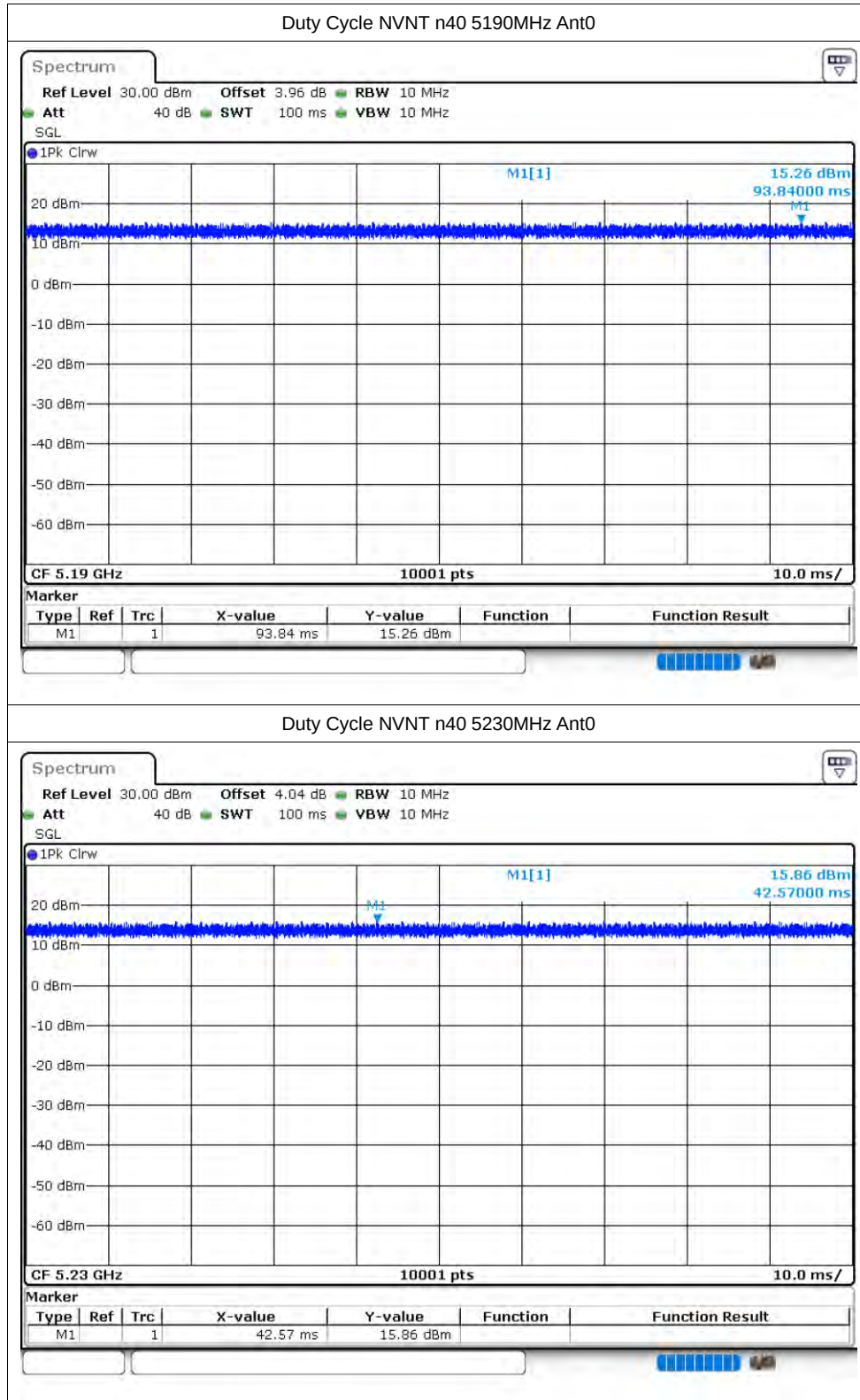
Duty Cycle NVNT a 5240MHz Ant1

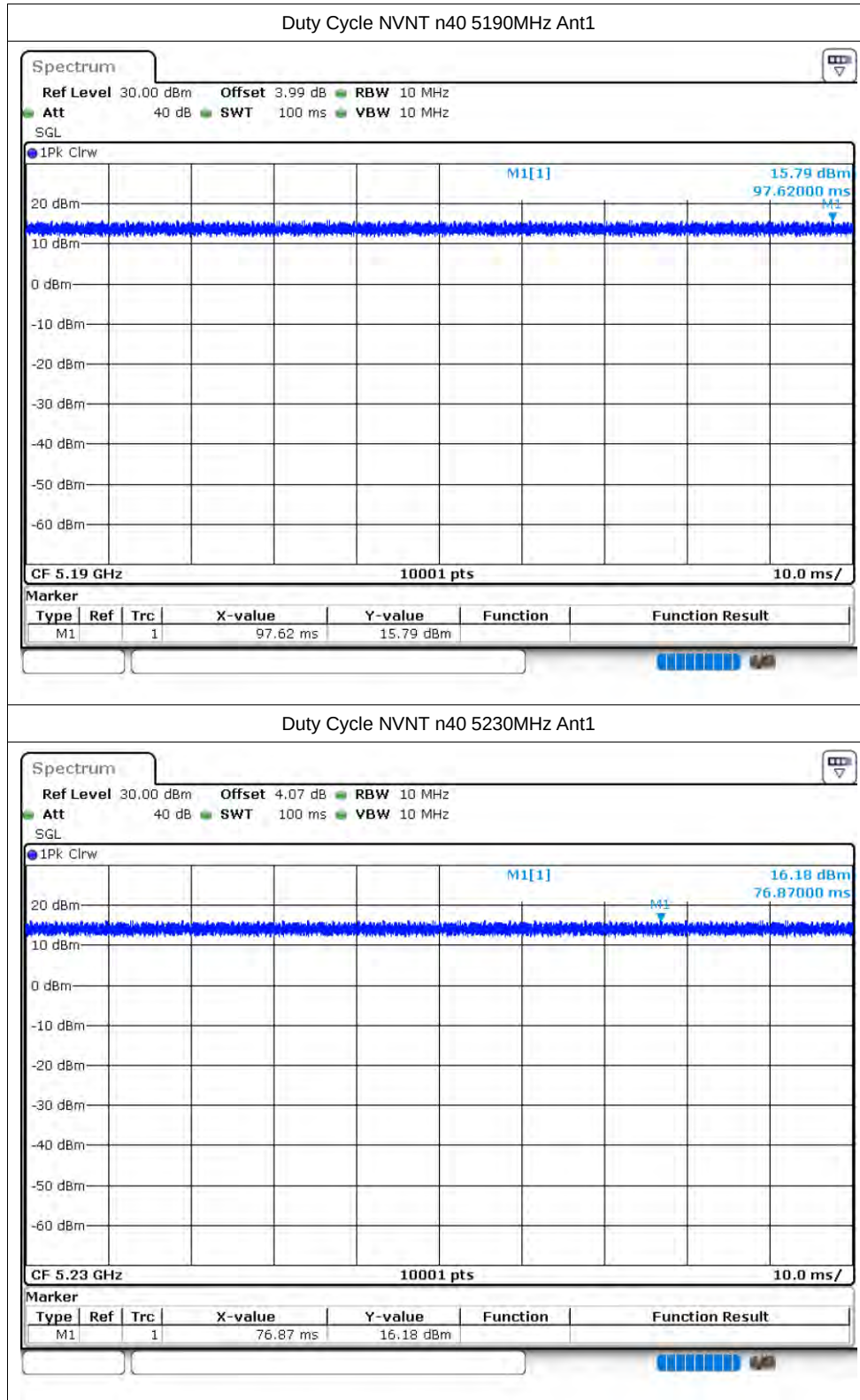


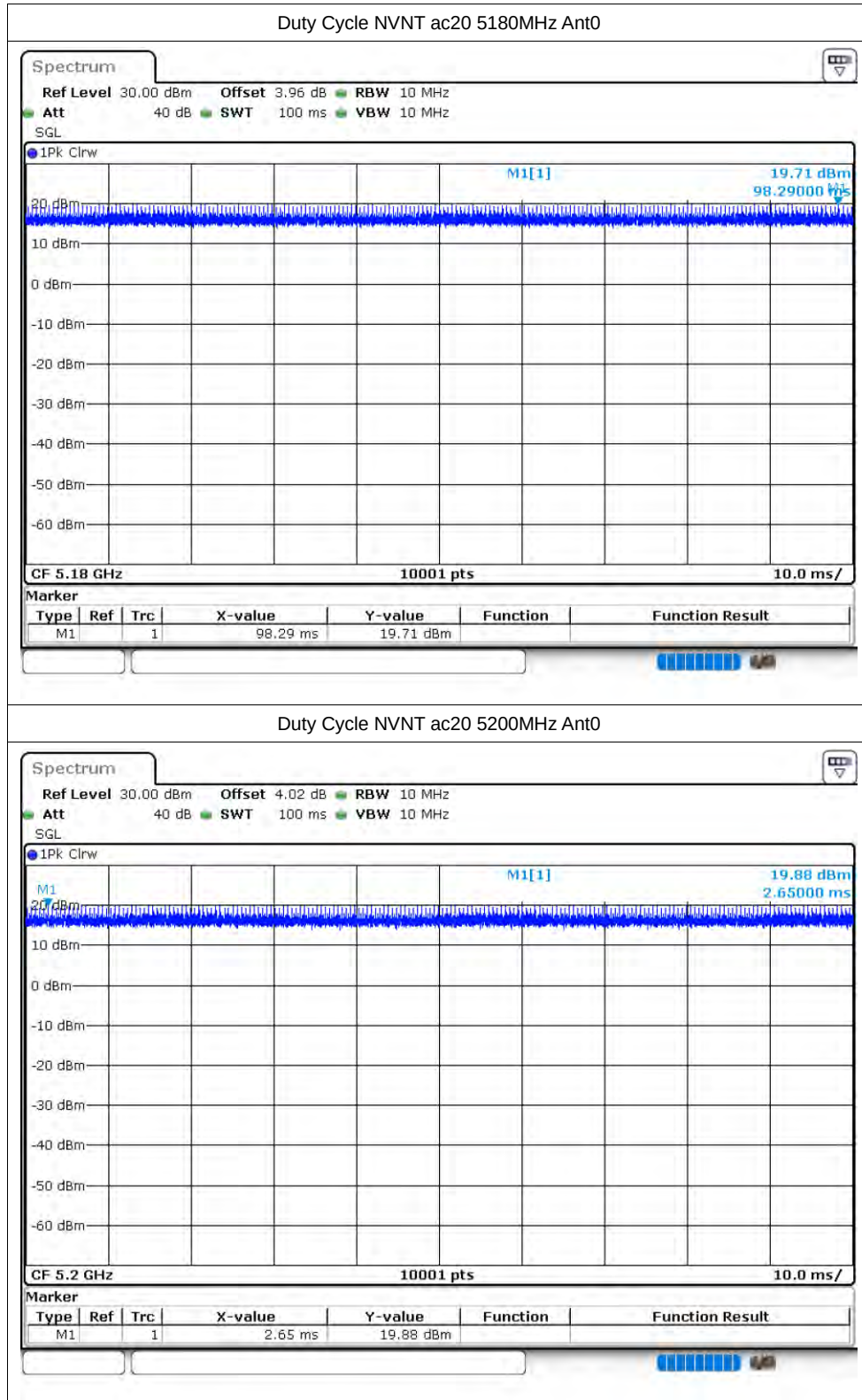


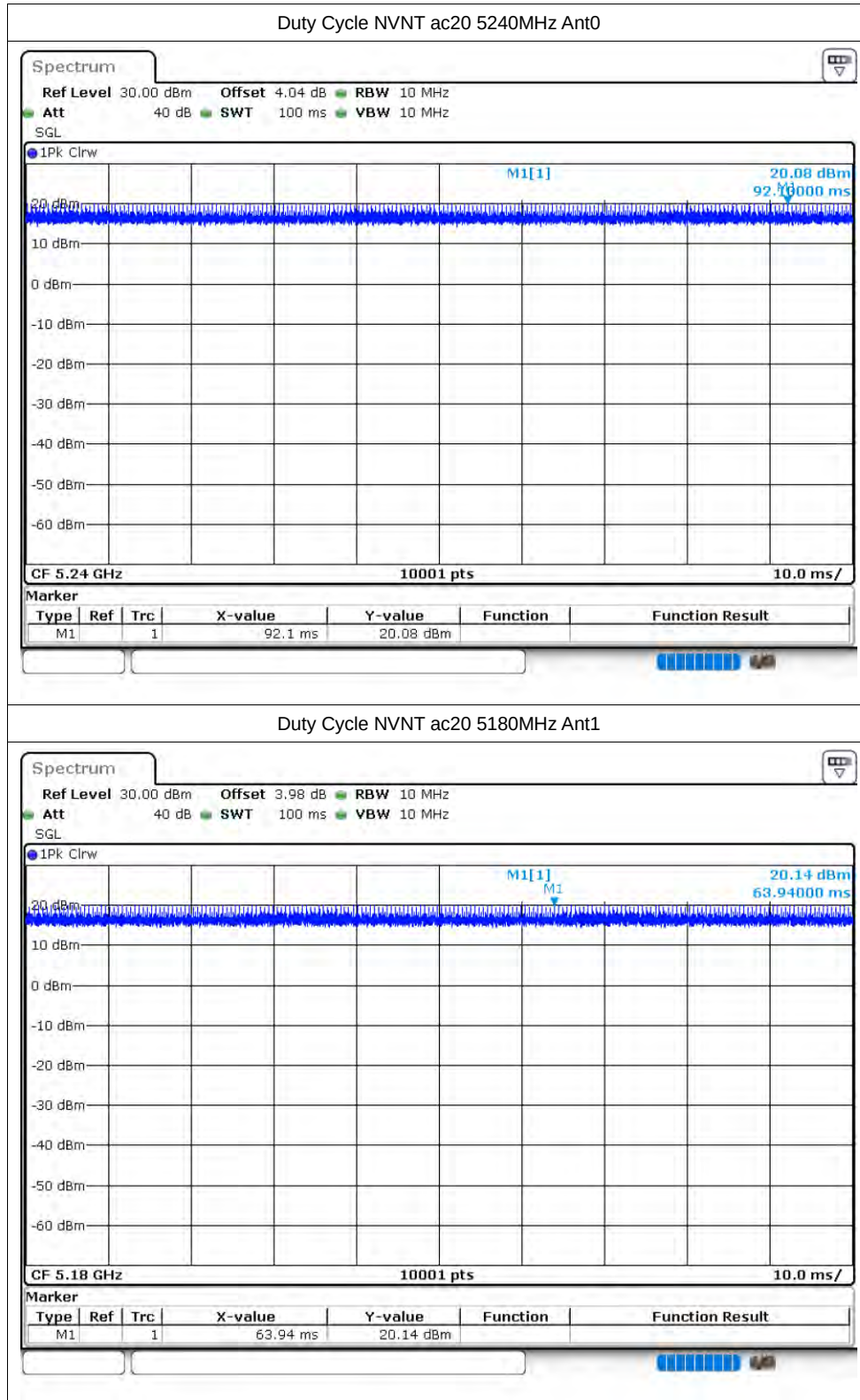


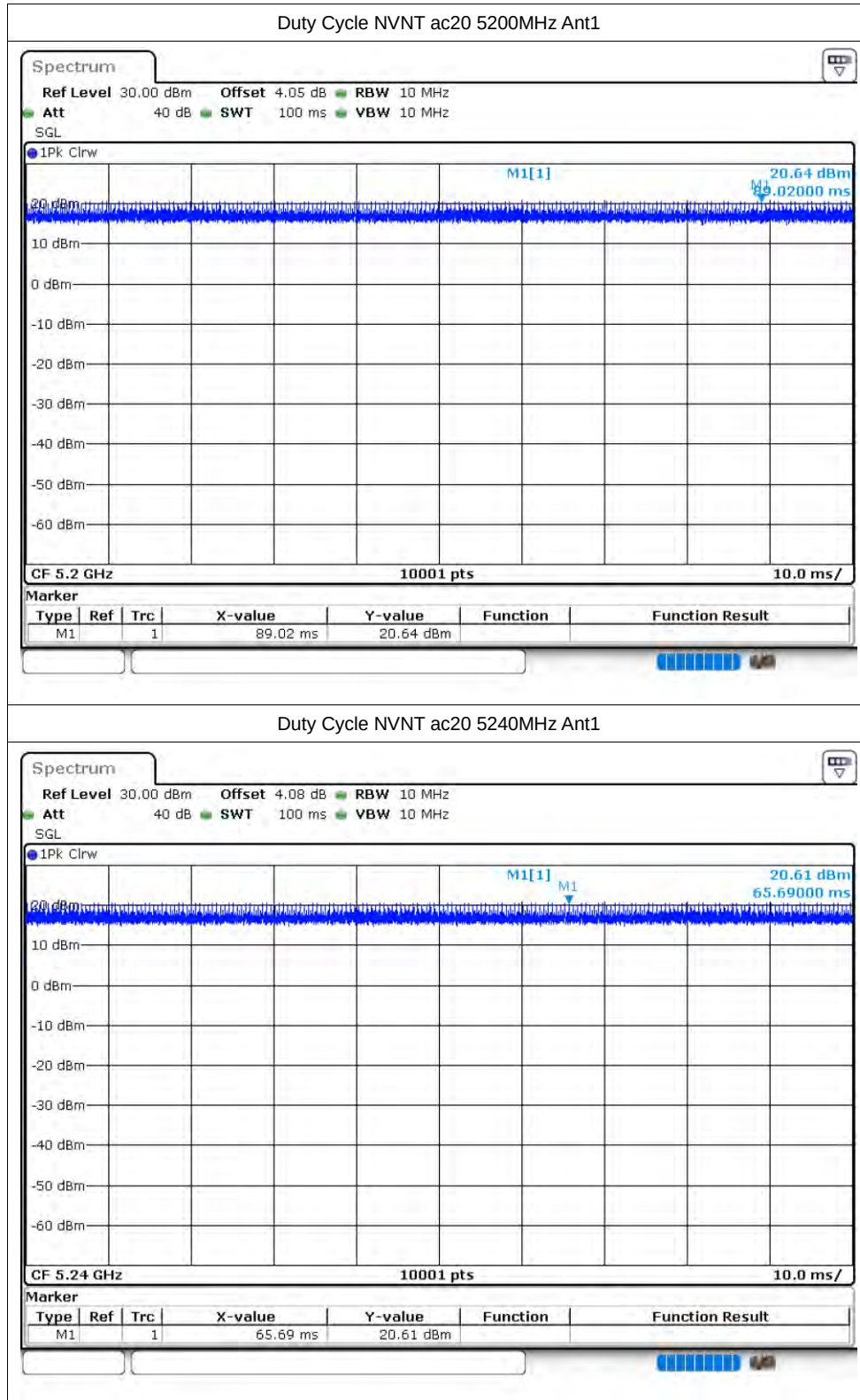


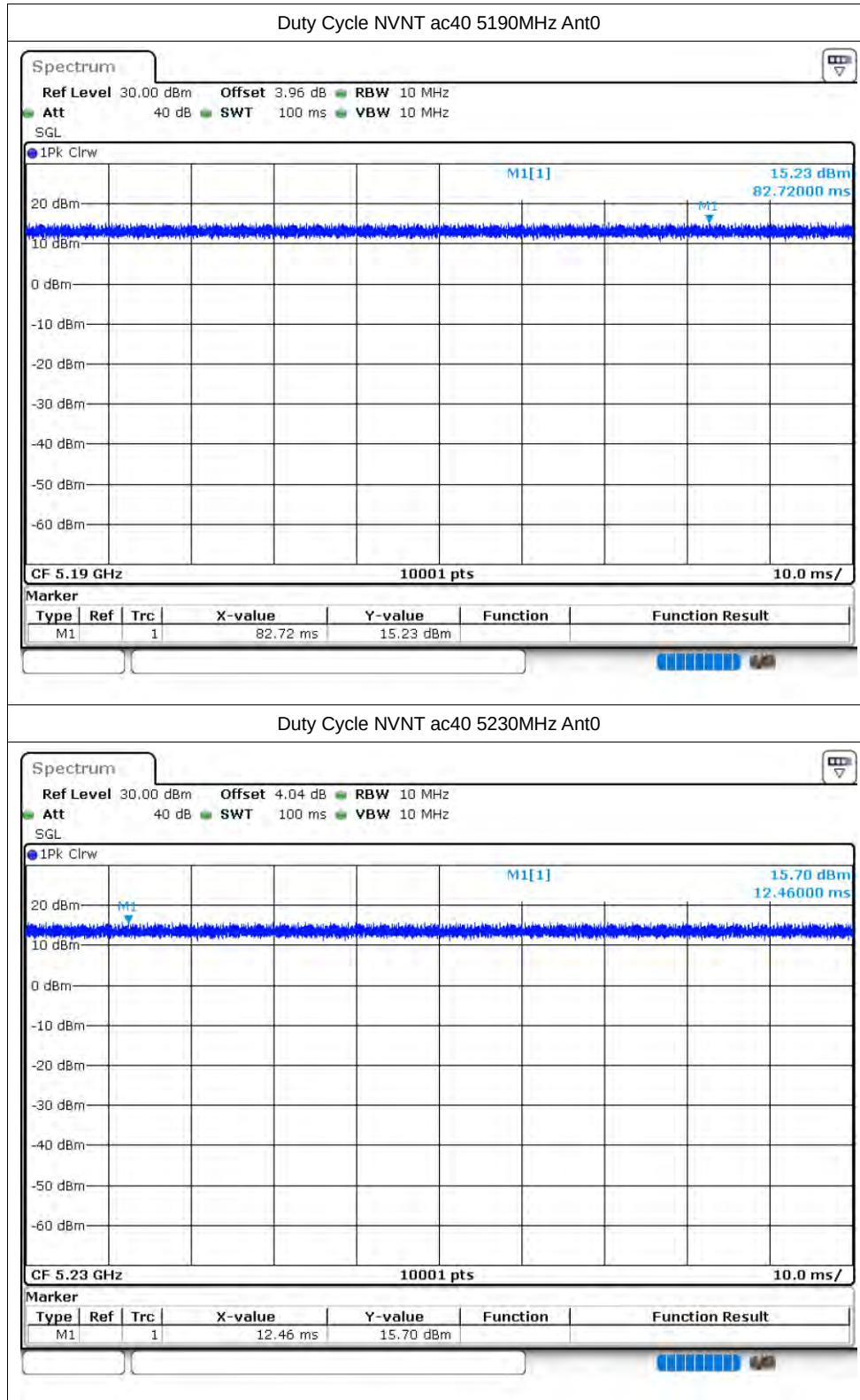




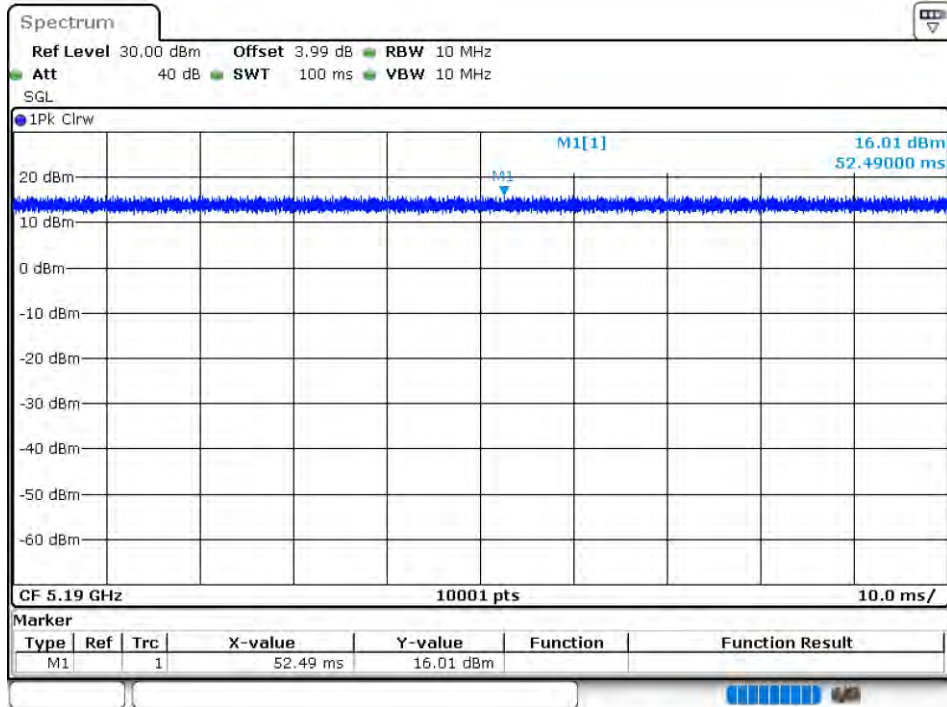




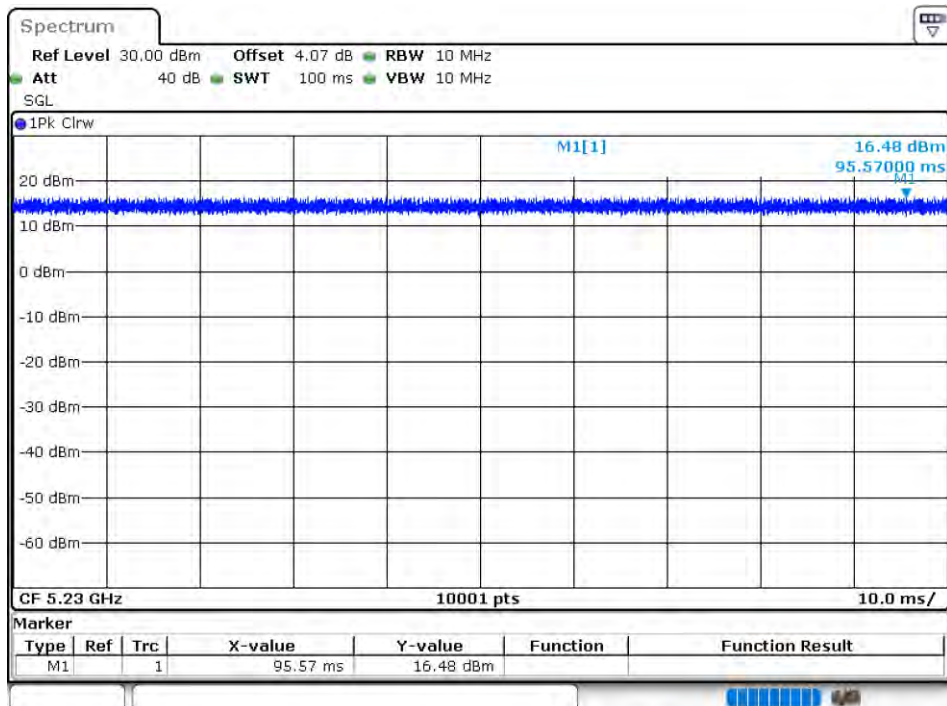


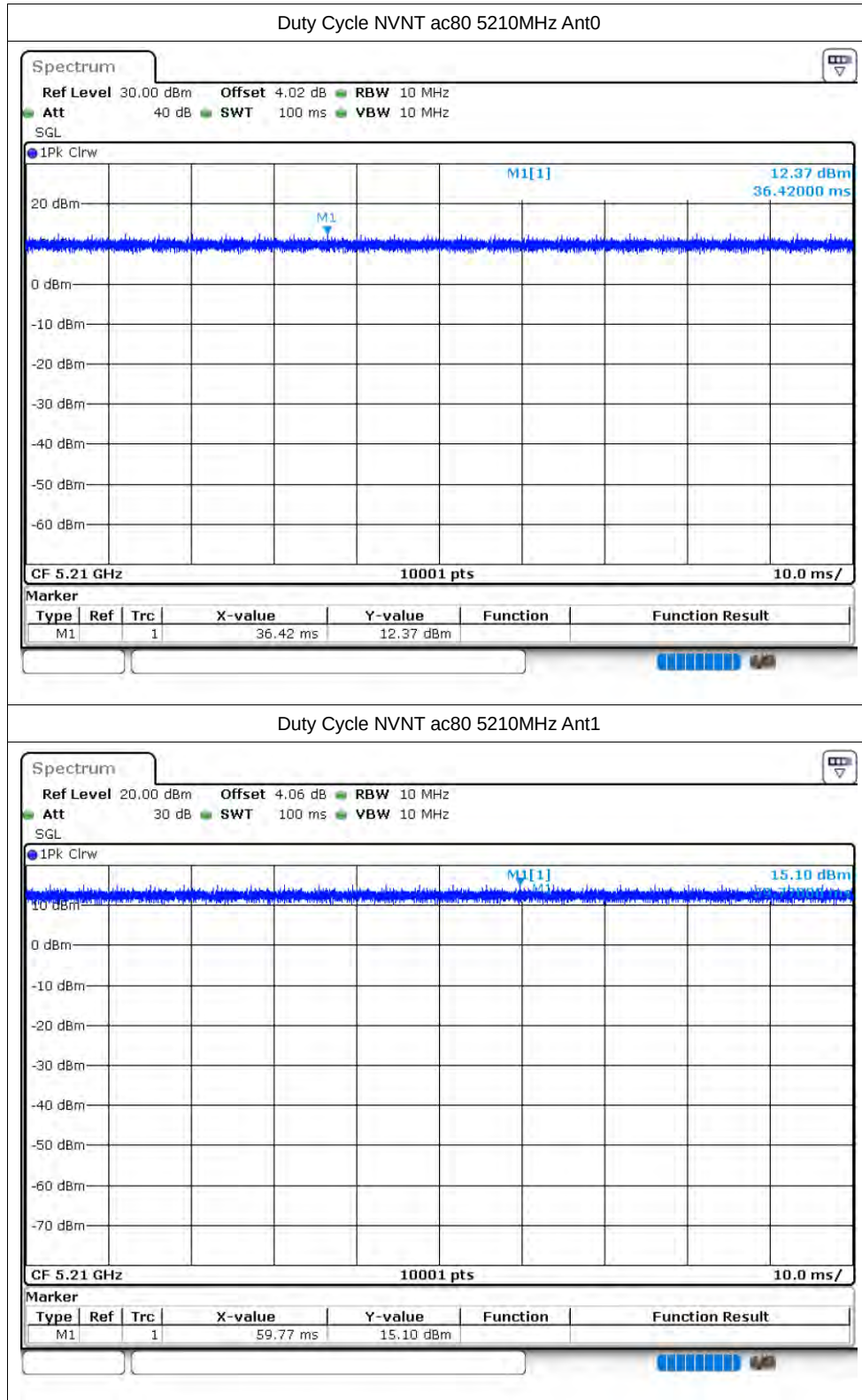


Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant0	11.83	24	Pass
NVNT	a	5200	Ant0	12.12	24	Pass
NVNT	a	5240	Ant0	12.09	24	Pass
NVNT	a	5180	Ant1	13.33	24	Pass
NVNT	a	5200	Ant1	13.32	24	Pass
NVNT	a	5240	Ant1	13.22	24	Pass
NVNT	n20	5180	Ant0	12.21	24	Pass
NVNT	n20	5200	Ant0	12.28	24	Pass
NVNT	n20	5240	Ant0	12.5	24	Pass
NVNT	n20	5180	Ant1	13.02	24	Pass
NVNT	n20	5200	Ant1	13.09	24	Pass
NVNT	n20	5240	Ant1	13.22	24	Pass
NVNT	n40	5190	Ant0	12.03	24	Pass
NVNT	n40	5230	Ant0	12.2	24	Pass
NVNT	n40	5190	Ant1	12.93	24	Pass
NVNT	n40	5230	Ant1	13.06	24	Pass
NVNT	ac20	5180	Ant0	12.37	24	Pass
NVNT	ac20	5200	Ant0	12.23	24	Pass
NVNT	ac20	5240	Ant0	12.13	24	Pass
NVNT	ac20	5180	Ant1	13.04	24	Pass
NVNT	ac20	5200	Ant1	12.99	24	Pass
NVNT	ac20	5240	Ant1	12.95	24	Pass
NVNT	ac40	5190	Ant0	11.94	24	Pass
NVNT	ac40	5230	Ant0	12.18	24	Pass
NVNT	ac40	5190	Ant1	13.16	24	Pass
NVNT	ac40	5230	Ant1	12.98	24	Pass
NVNT	ac80	5210	Ant0	12.02	24	Pass
NVNT	ac80	5210	Ant1	12.2	24	Pass

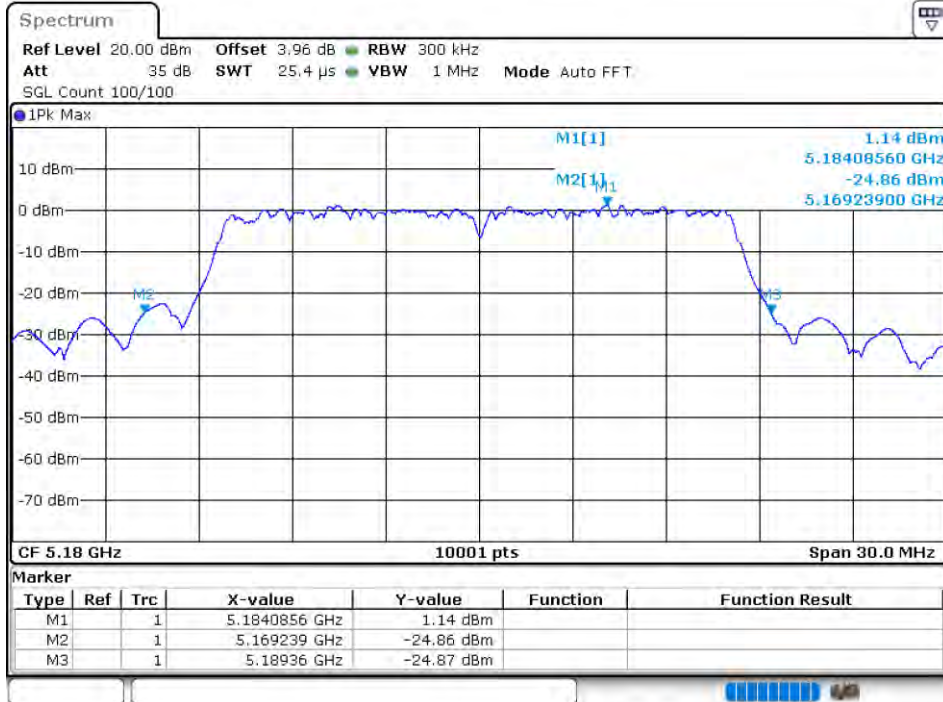
Note: The average power value already includes the duty cycle factor

-26dB Bandwidth

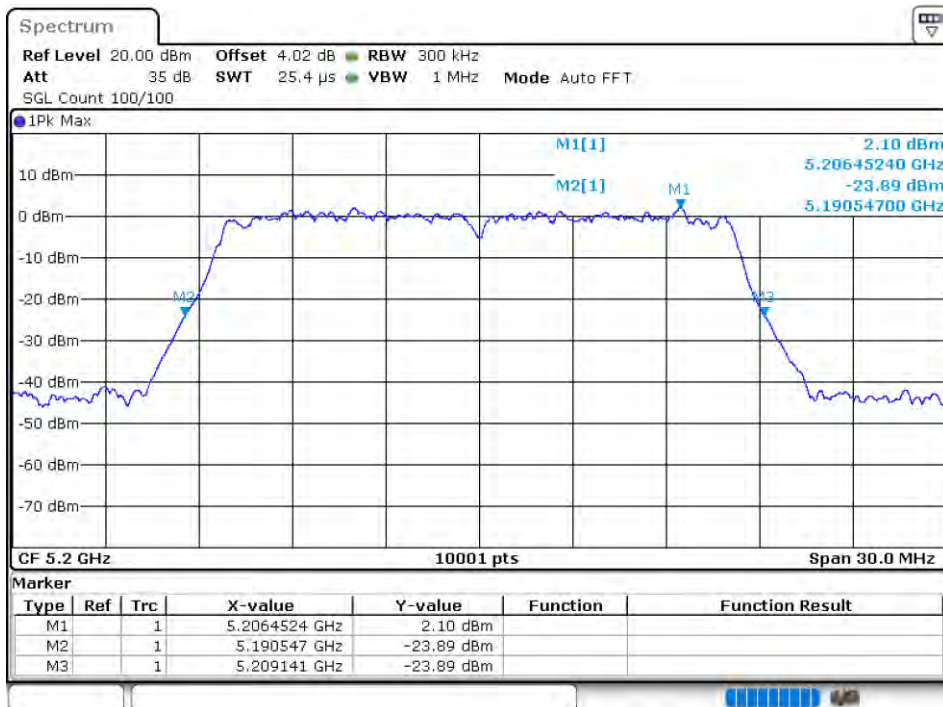
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	20.121	Pass
NVNT	a	5200	Ant0	18.594	Pass
NVNT	a	5240	Ant0	18.546	Pass
NVNT	a	5180	Ant1	18.459	Pass
NVNT	a	5200	Ant1	18.687	Pass
NVNT	a	5240	Ant1	18.48	Pass
NVNT	n20	5180	Ant0	19.359	Pass
NVNT	n20	5200	Ant0	19.5	Pass
NVNT	n20	5240	Ant0	19.527	Pass
NVNT	n20	5180	Ant1	19.494	Pass
NVNT	n20	5200	Ant1	19.44	Pass
NVNT	n20	5240	Ant1	19.539	Pass
NVNT	n40	5190	Ant0	41.502	Pass
NVNT	n40	5230	Ant0	41.79	Pass
NVNT	n40	5190	Ant1	41.796	Pass
NVNT	n40	5230	Ant1	41.874	Pass
NVNT	ac20	5180	Ant0	19.554	Pass
NVNT	ac20	5200	Ant0	19.566	Pass
NVNT	ac20	5240	Ant0	19.461	Pass
NVNT	ac20	5180	Ant1	19.476	Pass
NVNT	ac20	5200	Ant1	19.599	Pass
NVNT	ac20	5240	Ant1	19.653	Pass
NVNT	ac40	5190	Ant0	41.67	Pass
NVNT	ac40	5230	Ant0	41.832	Pass
NVNT	ac40	5190	Ant1	41.61	Pass
NVNT	ac40	5230	Ant1	42.042	Pass
NVNT	ac80	5210	Ant0	82.08	Pass
NVNT	ac80	5210	Ant1	80.028	Pass

Test Graphs

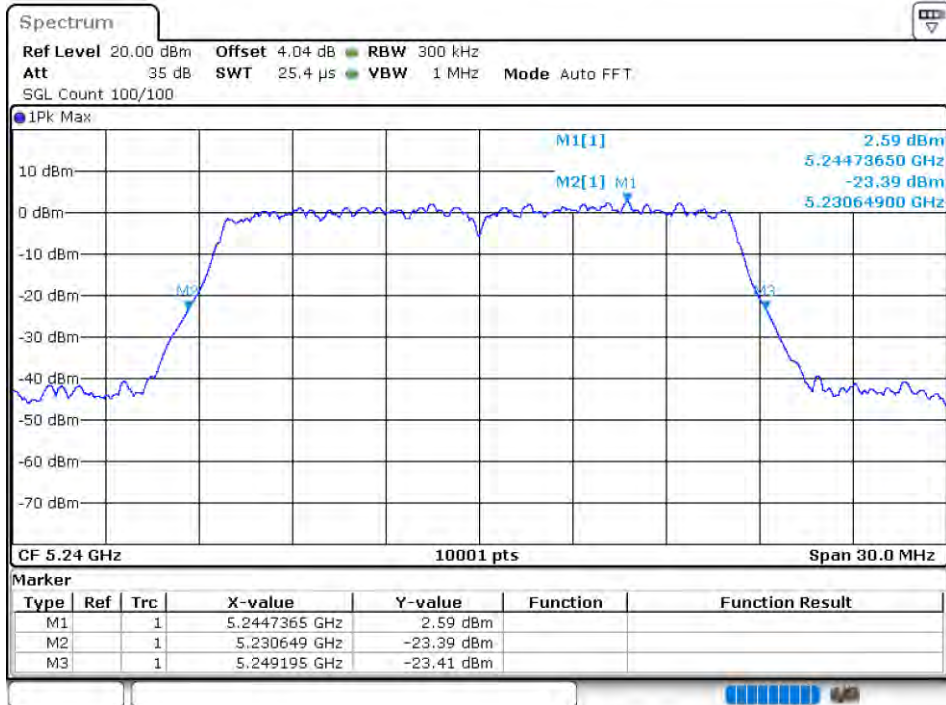
-26dB Bandwidth NVNT a 5180MHz Ant0



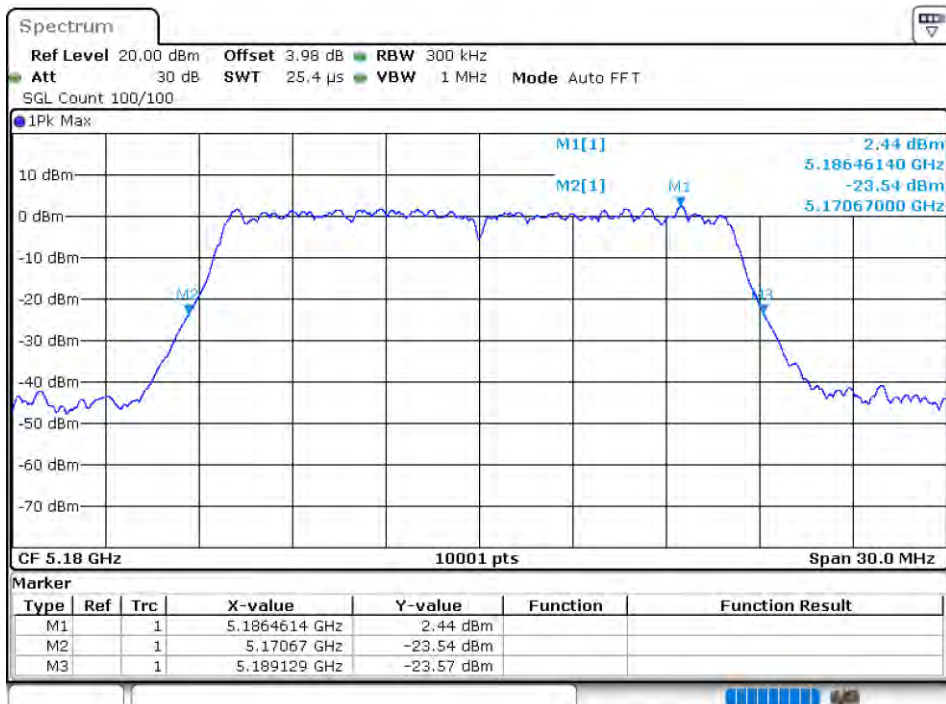
-26dB Bandwidth NVNT a 5200MHz Ant0



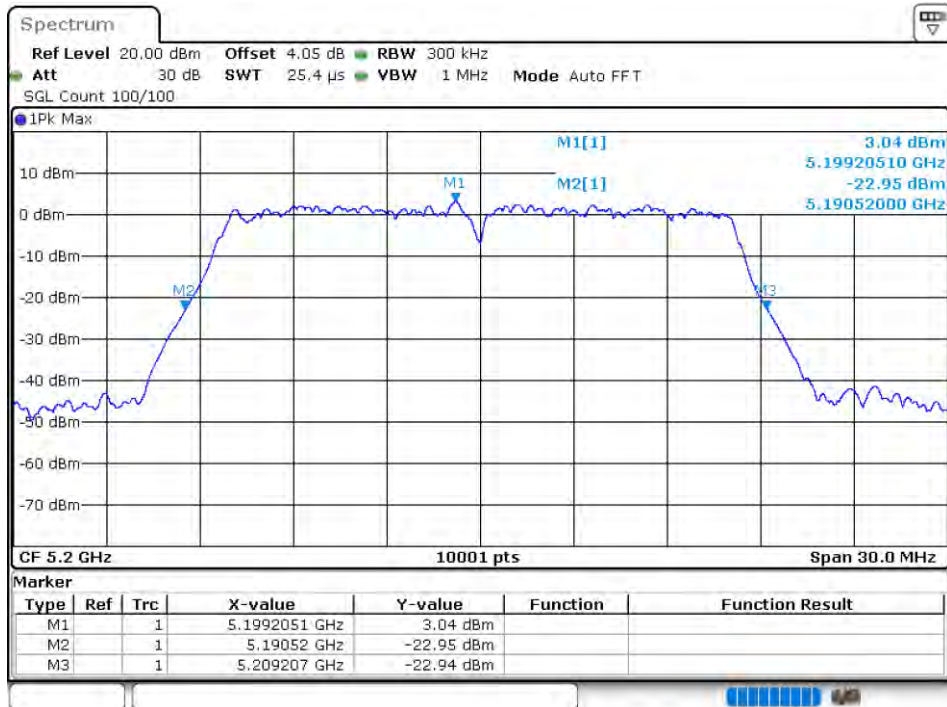
-26dB Bandwidth NVNT a 5240MHz Ant0



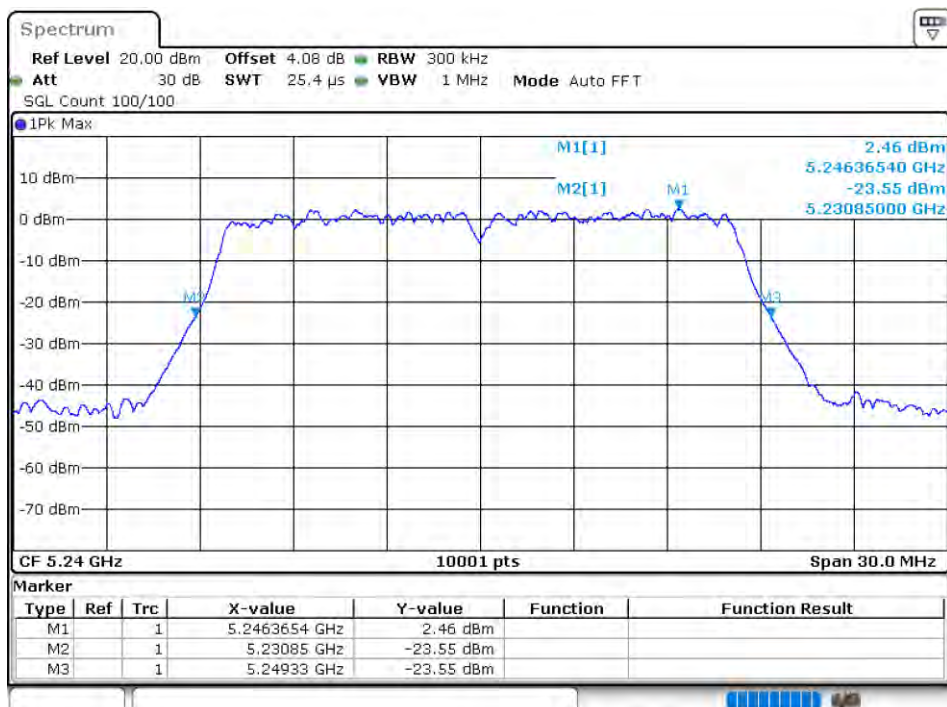
-26dB Bandwidth NVNT a 5180MHz Ant1

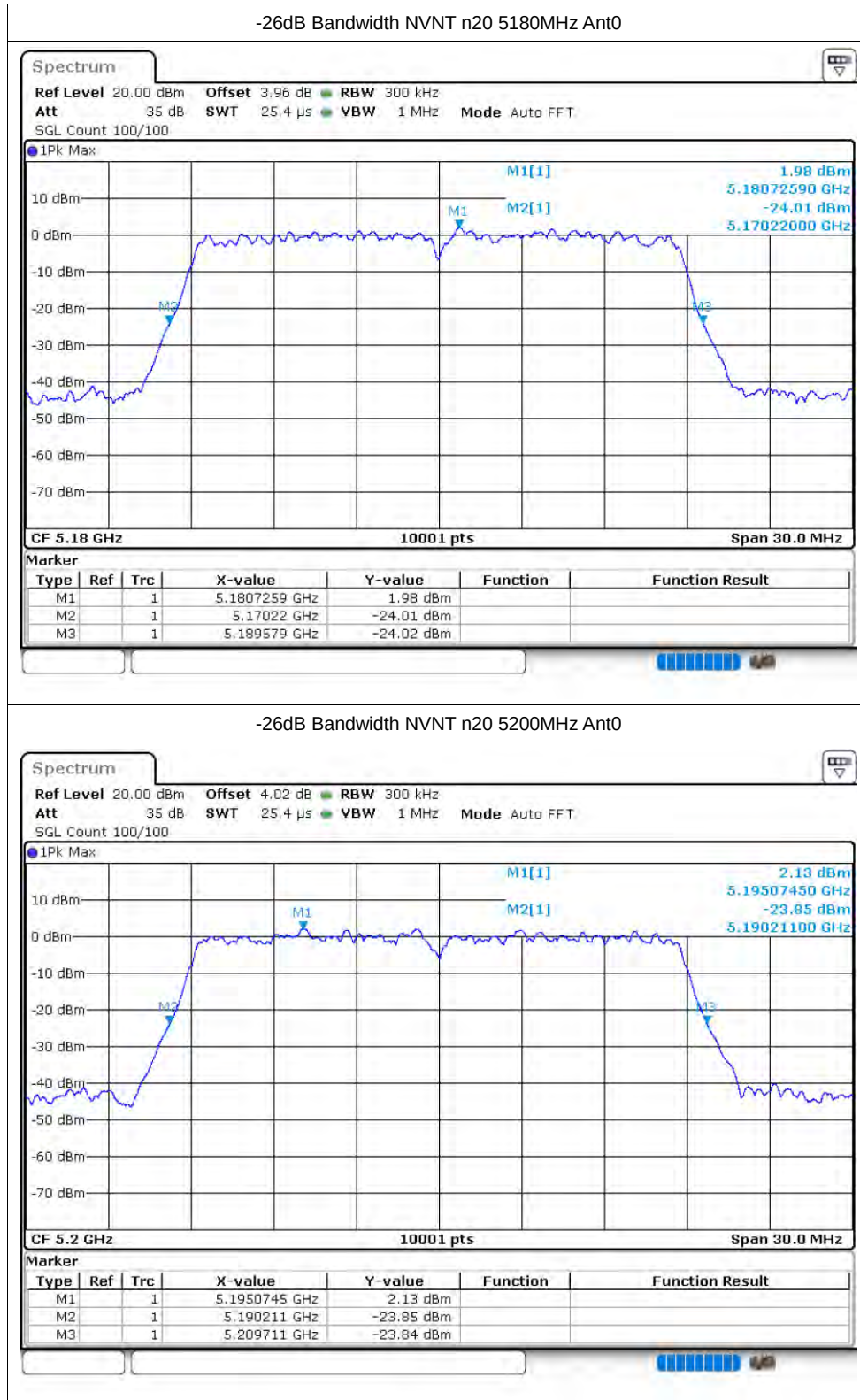


-26dB Bandwidth NVNT a 5200MHz Ant1

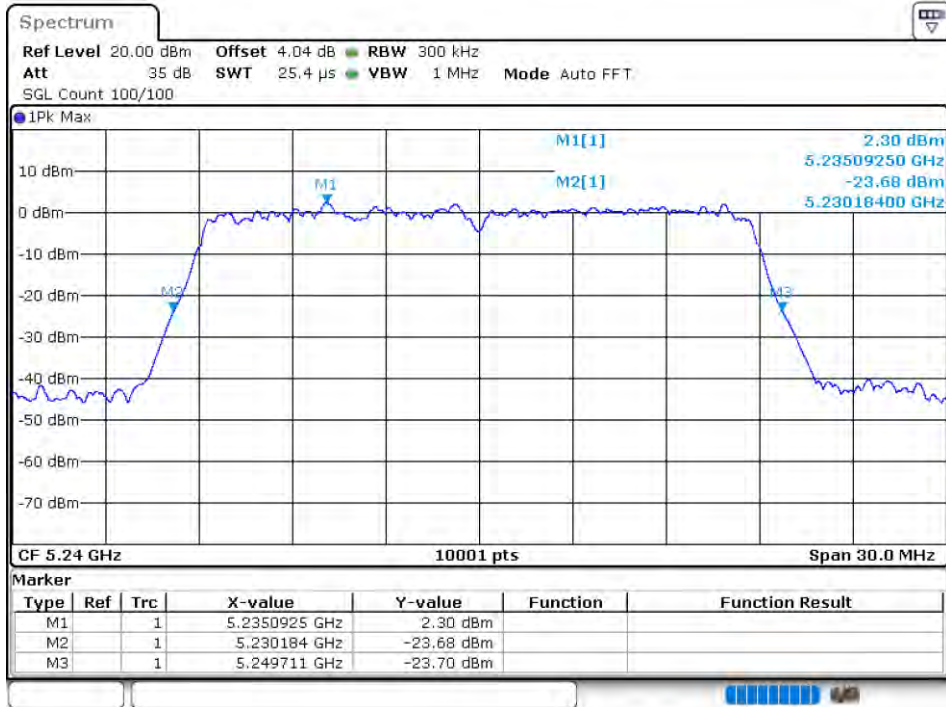


-26dB Bandwidth NVNT a 5240MHz Ant1

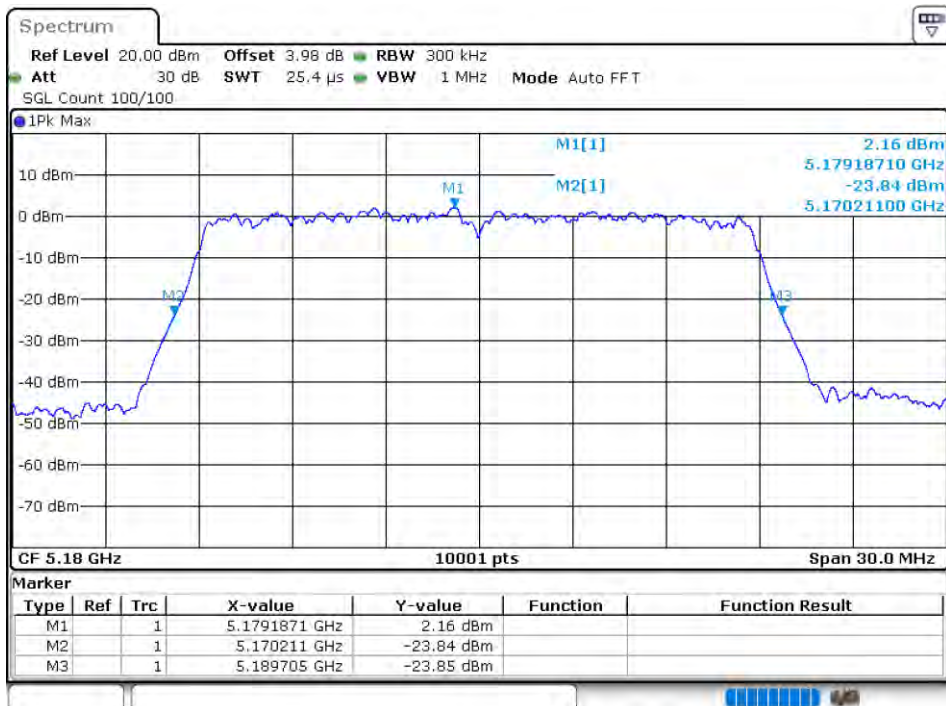




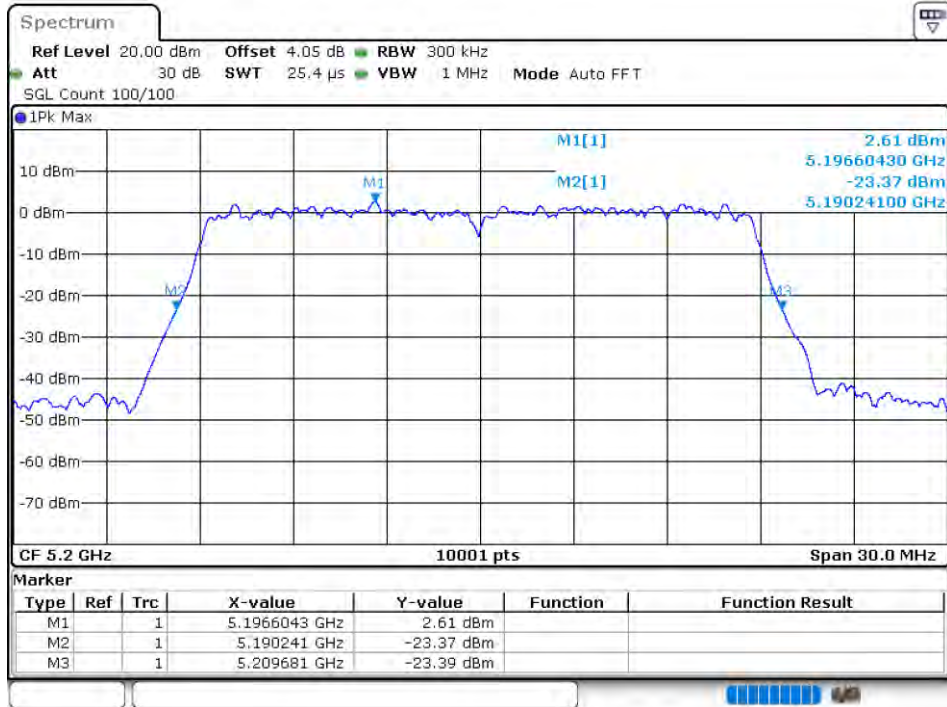
-26dB Bandwidth NVNT n20 5240MHz Ant0



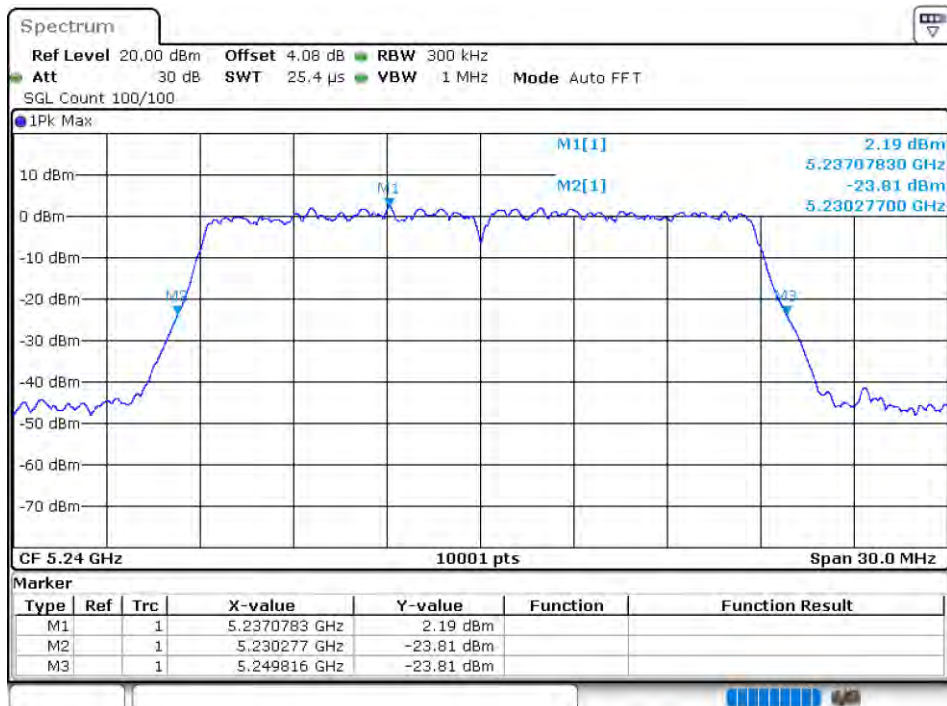
-26dB Bandwidth NVNT n20 5180MHz Ant1



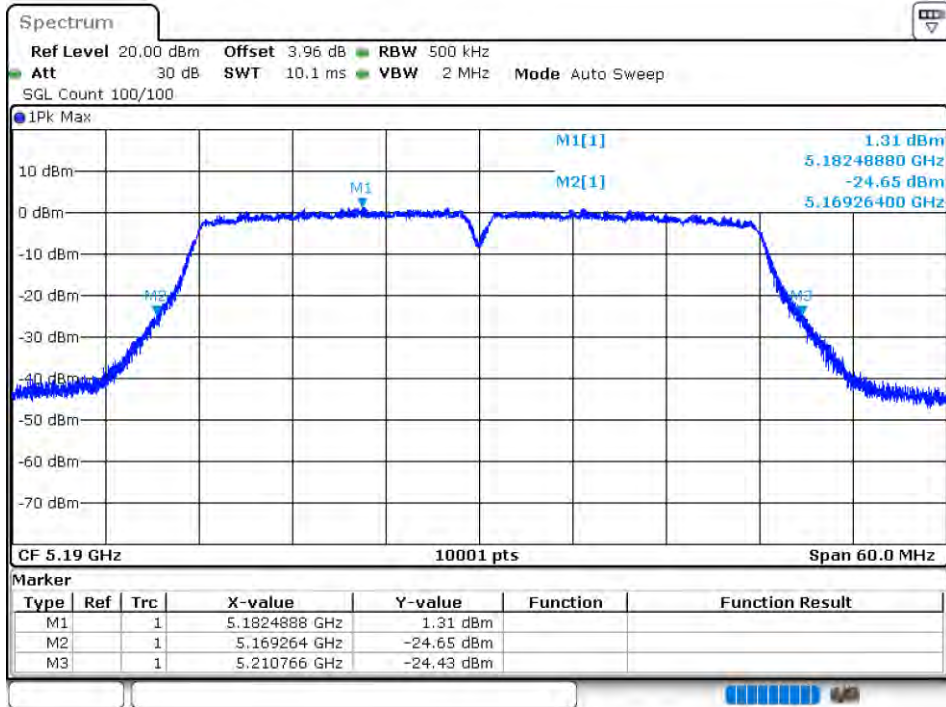
-26dB Bandwidth NVNT n20 5200MHz Ant1



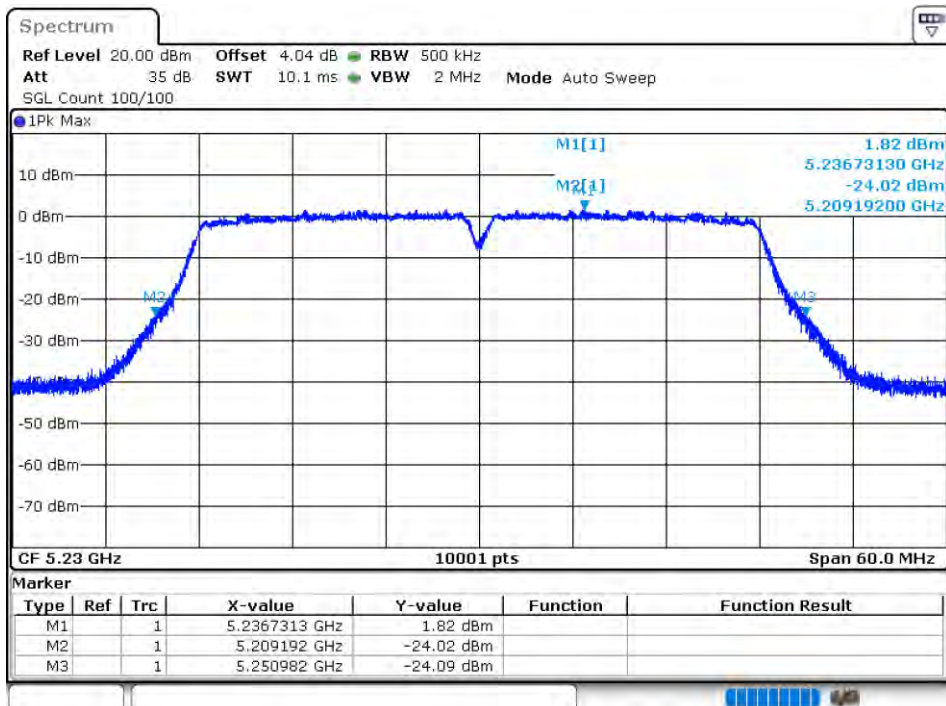
-26dB Bandwidth NVNT n20 5240MHz Ant1



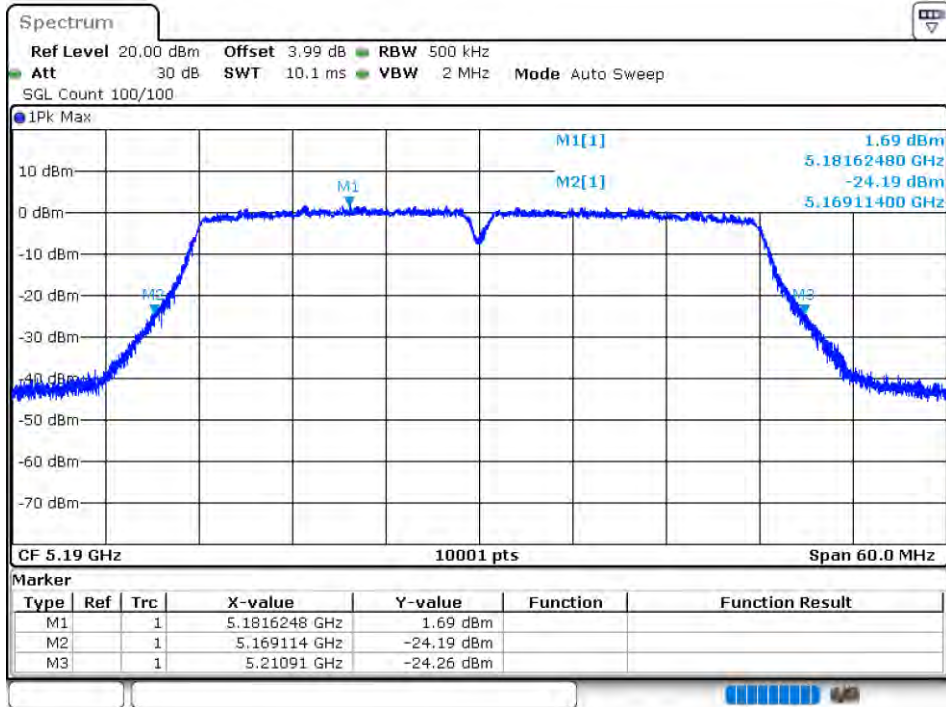
-26dB Bandwidth NVNT n40 5190MHz Ant0



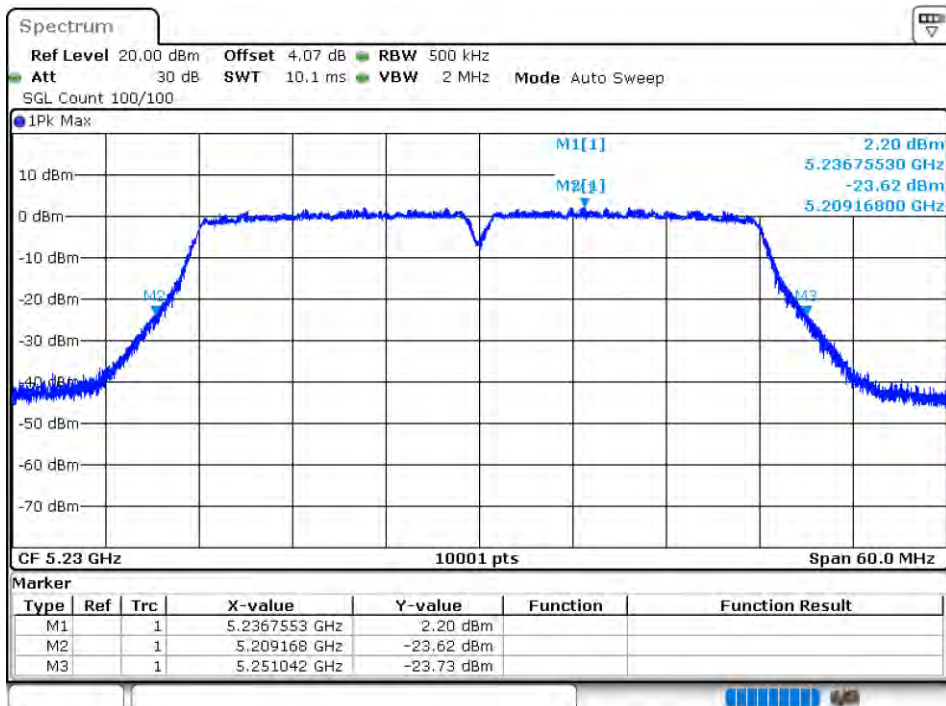
-26dB Bandwidth NVNT n40 5230MHz Ant0



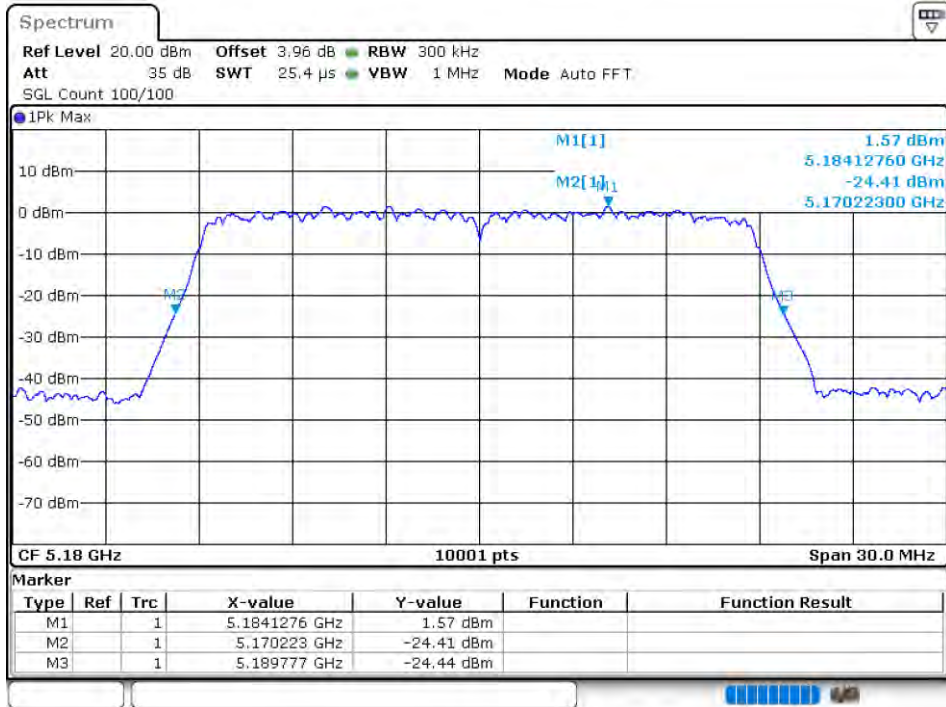
-26dB Bandwidth NVNT n40 5190MHz Ant1



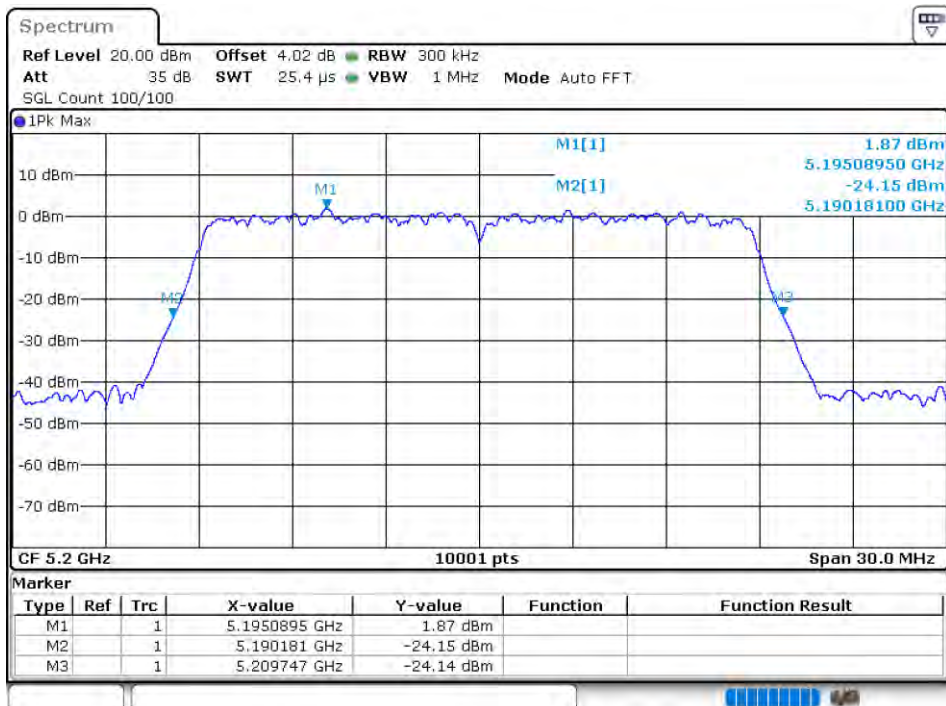
-26dB Bandwidth NVNT n40 5230MHz Ant1



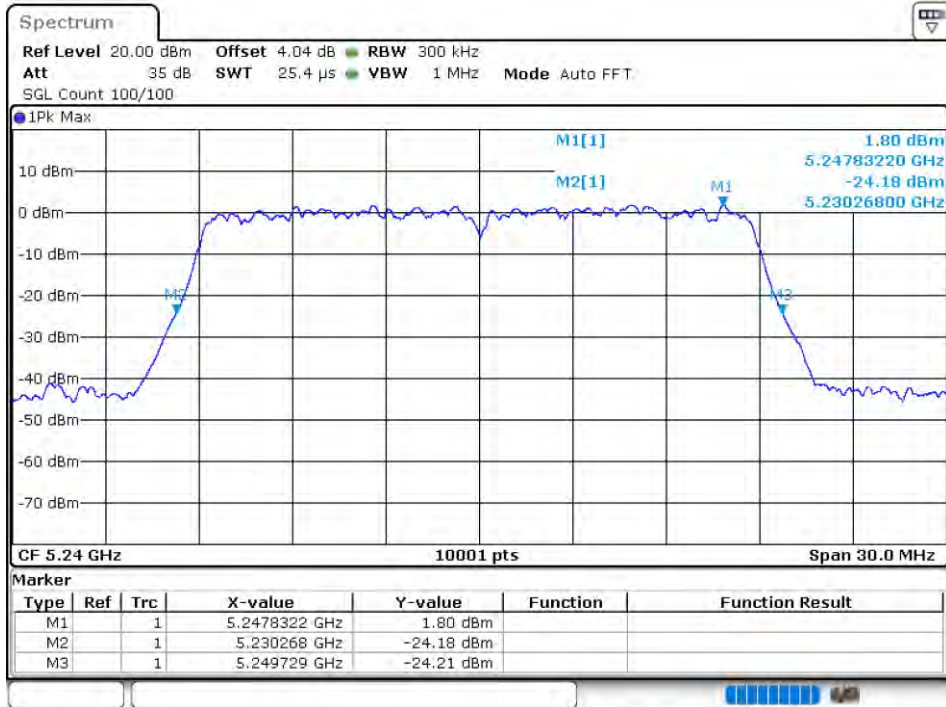
-26dB Bandwidth NVNT ac20 5180MHz Ant0



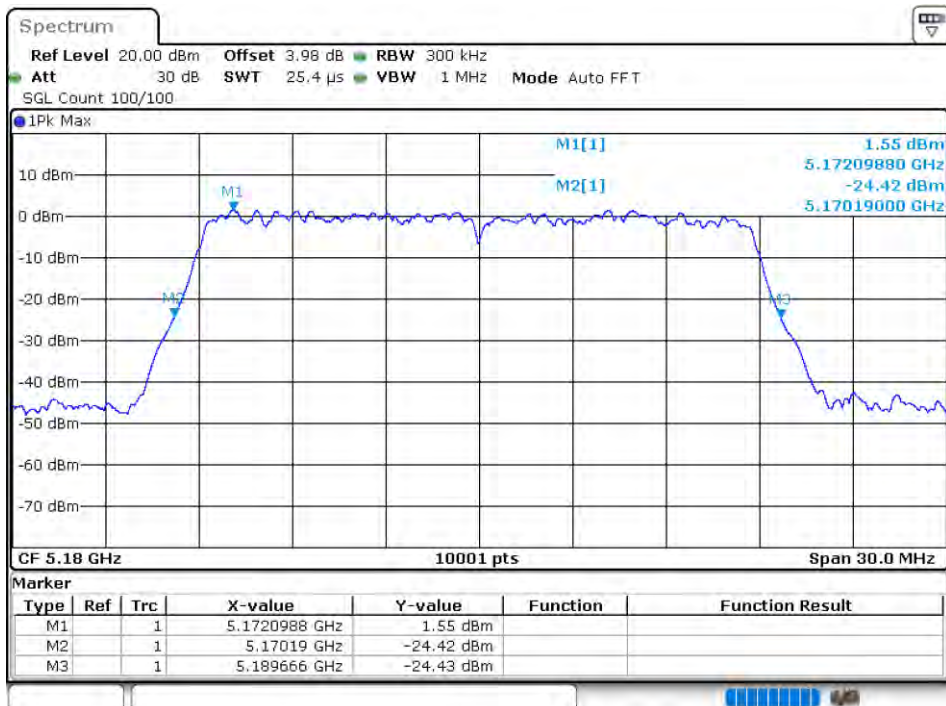
-26dB Bandwidth NVNT ac20 5200MHz Ant0



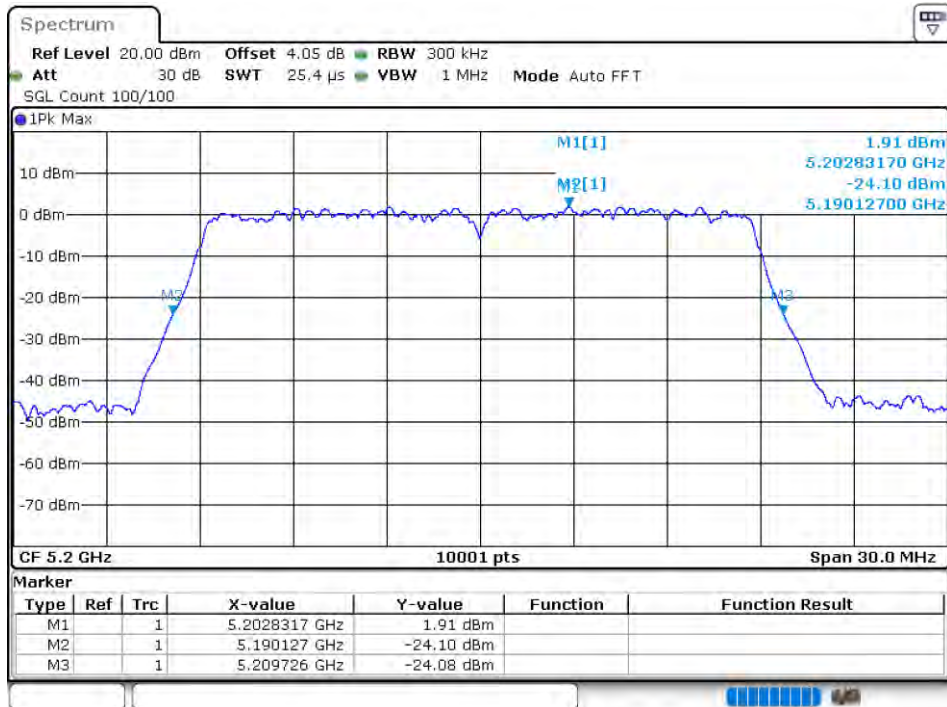
-26dB Bandwidth NVNT ac20 5240MHz Ant0



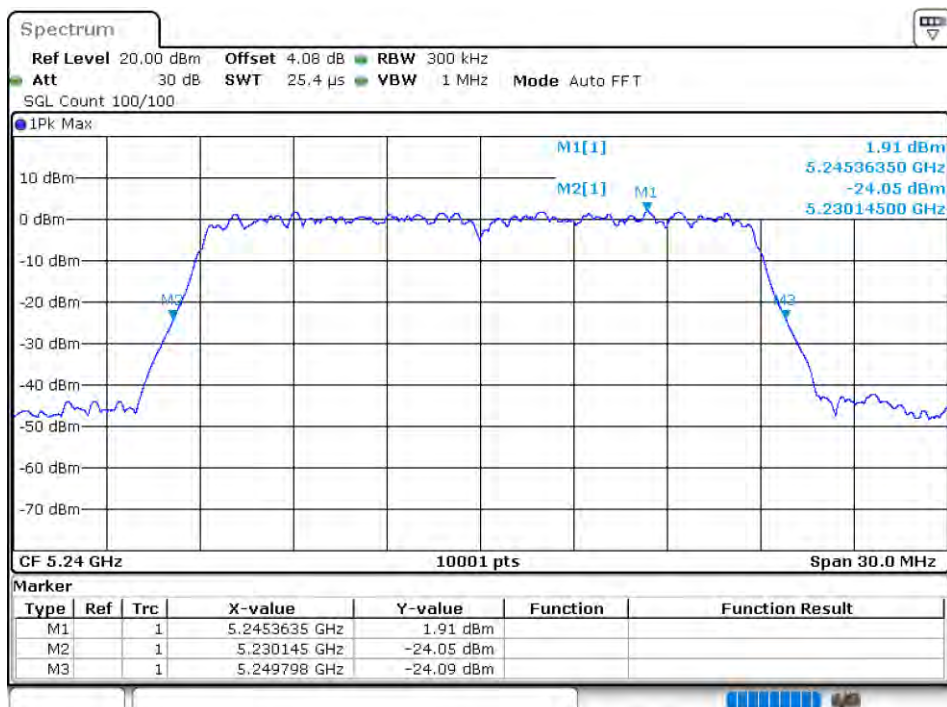
-26dB Bandwidth NVNT ac20 5180MHz Ant1



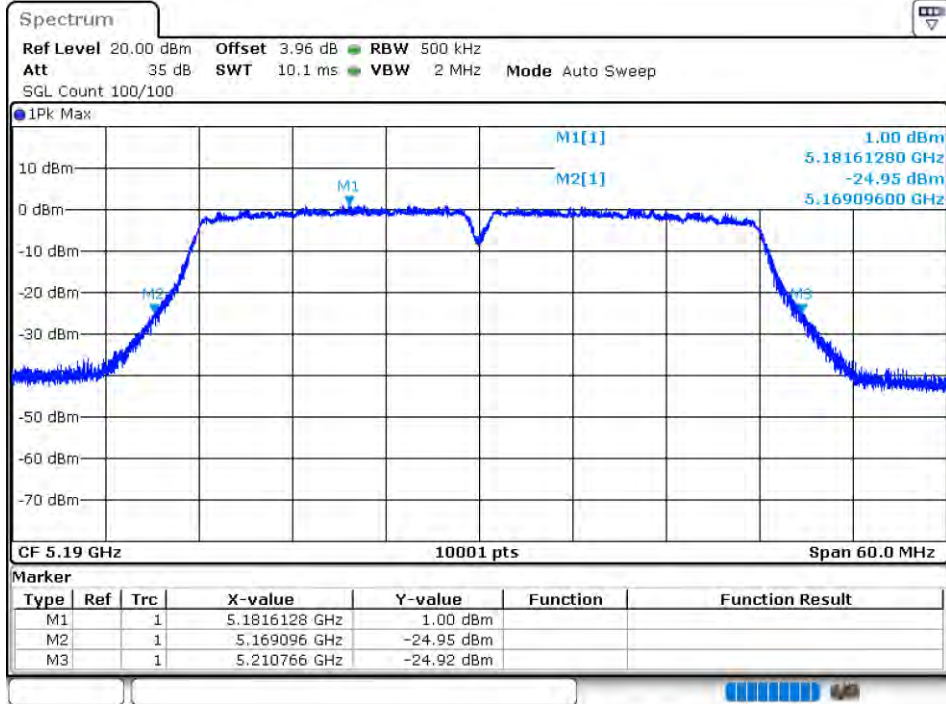
-26dB Bandwidth NVNT ac20 5200MHz Ant1



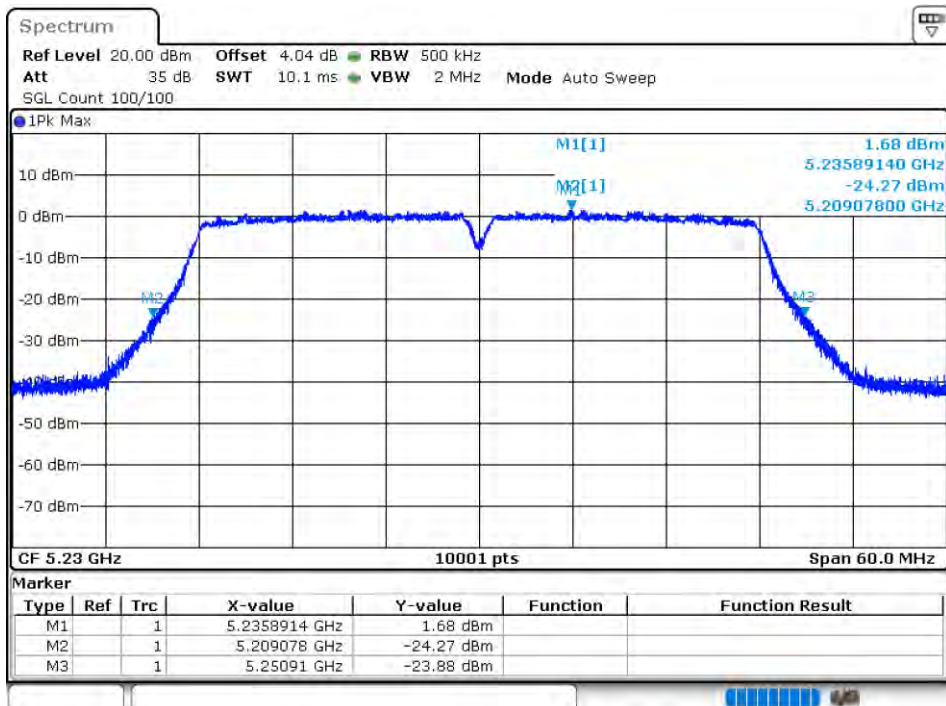
-26dB Bandwidth NVNT ac20 5240MHz Ant1



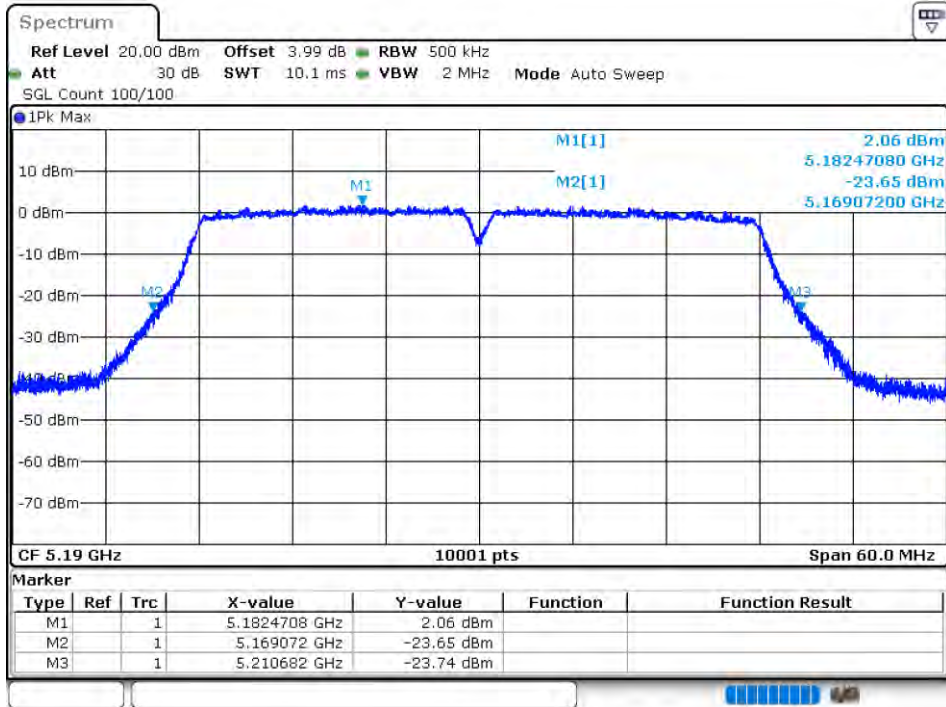
-26dB Bandwidth NVNT ac40 5190MHz Ant0



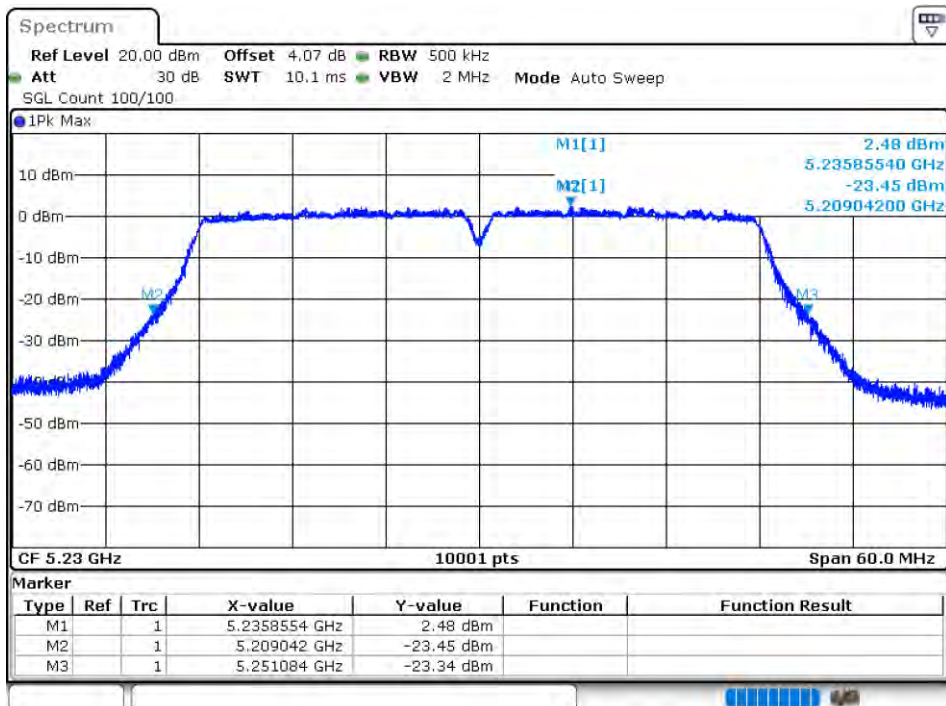
-26dB Bandwidth NVNT ac40 5230MHz Ant0



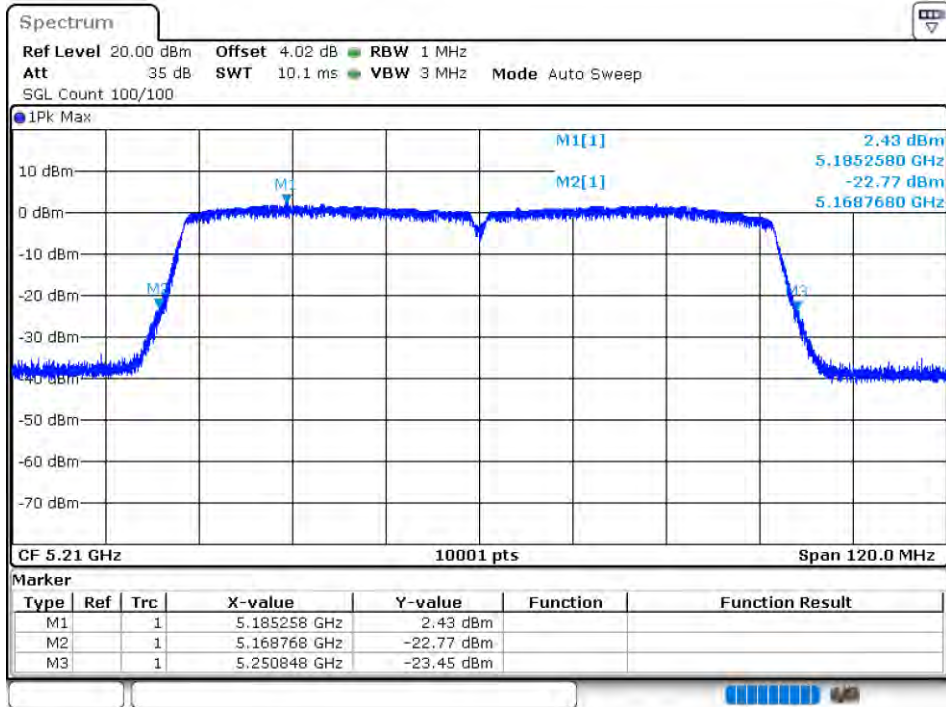
-26dB Bandwidth NVNT ac40 5190MHz Ant1



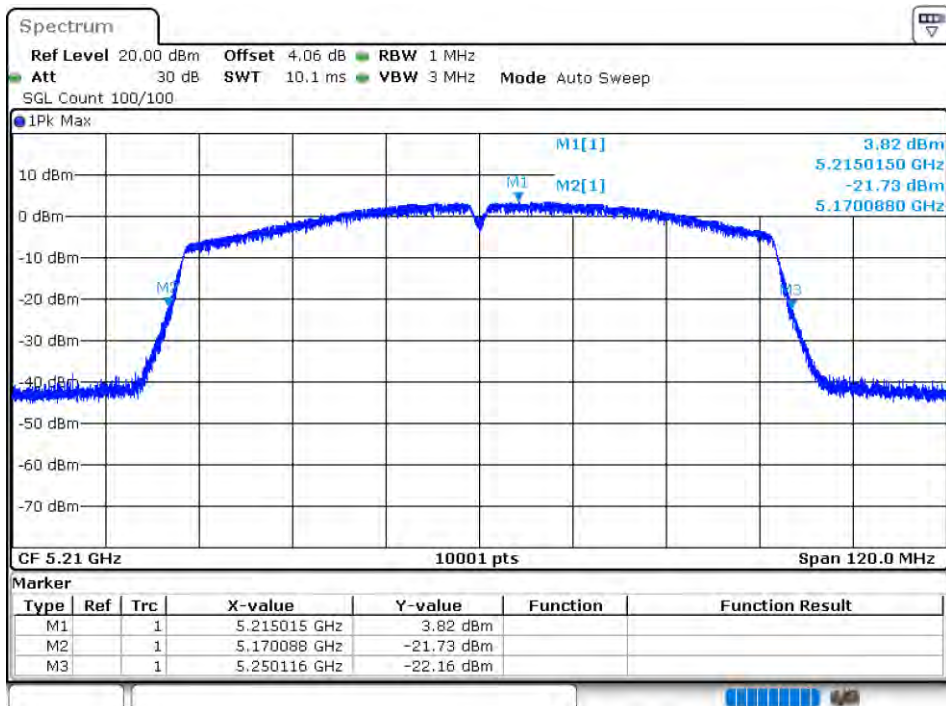
-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant0



-26dB Bandwidth NVNT ac80 5210MHz Ant1



Occupied Channel Bandwidth

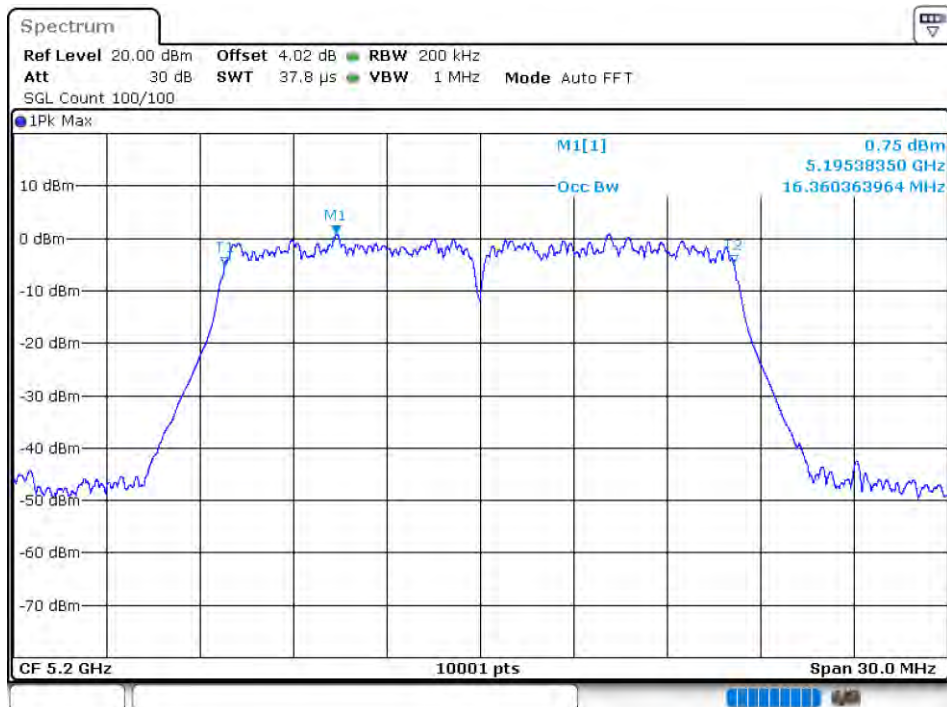
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant0	16.363
NVNT	a	5200	Ant0	16.36
NVNT	a	5240	Ant0	16.372
NVNT	a	5180	Ant1	16.342
NVNT	a	5200	Ant1	16.387
NVNT	a	5240	Ant1	16.33
NVNT	n20	5180	Ant0	17.554
NVNT	n20	5200	Ant0	17.548
NVNT	n20	5240	Ant0	17.551
NVNT	n20	5180	Ant1	17.539
NVNT	n20	5200	Ant1	17.554
NVNT	n20	5240	Ant1	17.557
NVNT	n40	5190	Ant0	36.128
NVNT	n40	5230	Ant0	36.206
NVNT	n40	5190	Ant1	36.188
NVNT	n40	5230	Ant1	36.254
NVNT	ac20	5180	Ant0	17.551
NVNT	ac20	5200	Ant0	17.521
NVNT	ac20	5240	Ant0	17.563
NVNT	ac20	5180	Ant1	17.539
NVNT	ac20	5200	Ant1	17.572
NVNT	ac20	5240	Ant1	17.548
NVNT	ac40	5190	Ant0	36.128
NVNT	ac40	5230	Ant0	36.2
NVNT	ac40	5190	Ant1	36.2
NVNT	ac40	5230	Ant1	36.254
NVNT	ac80	5210	Ant0	75.304
NVNT	ac80	5210	Ant1	73.109

Test Graphs

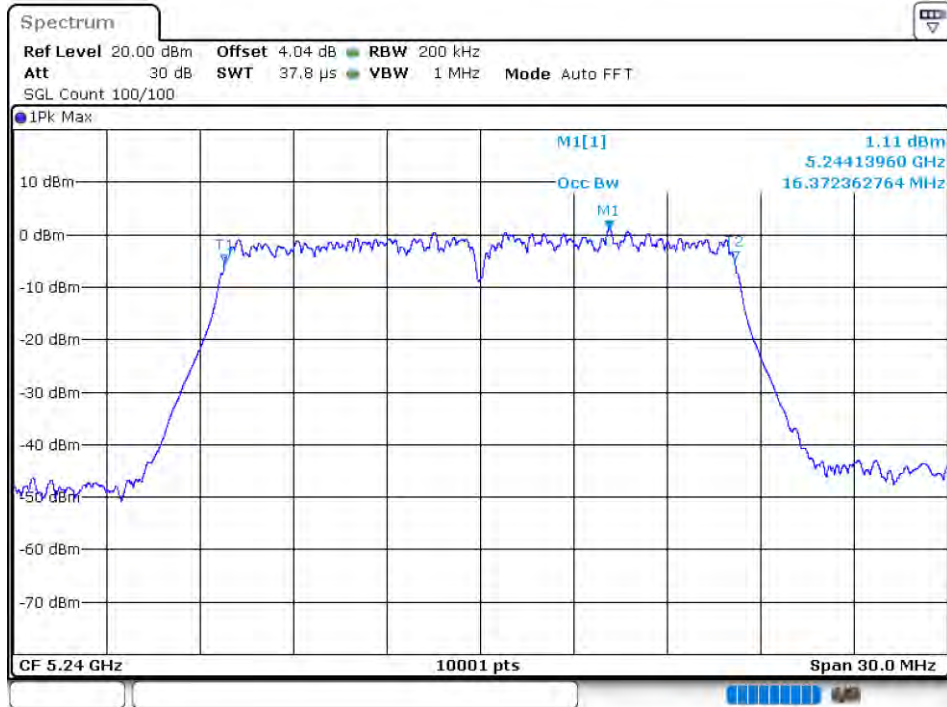
OBW NVNT a 5180MHz Ant0



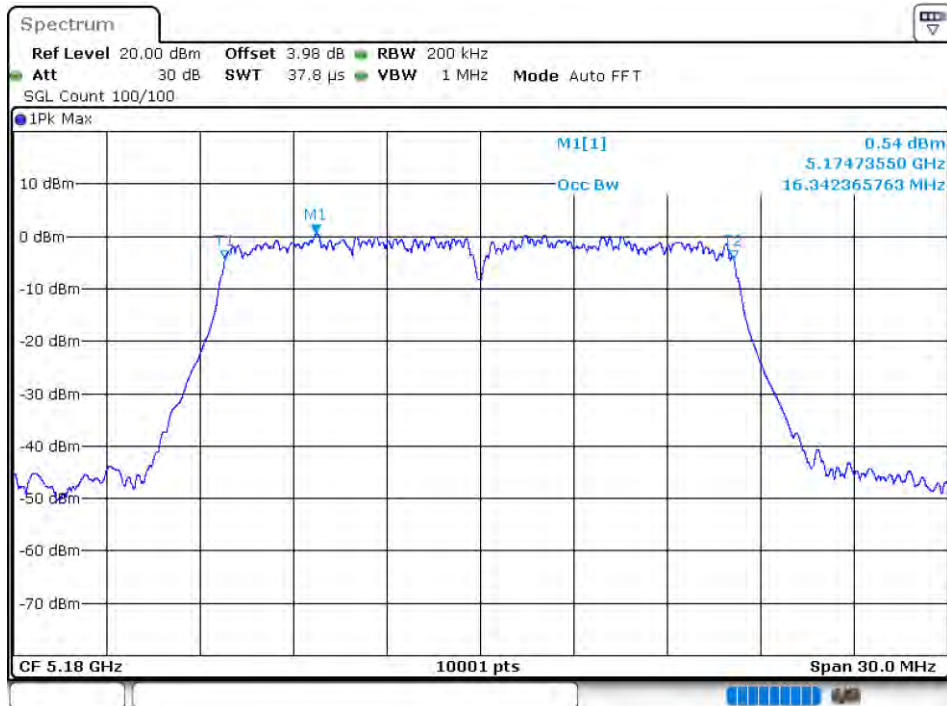
OBW NVNT a 5200MHz Ant0



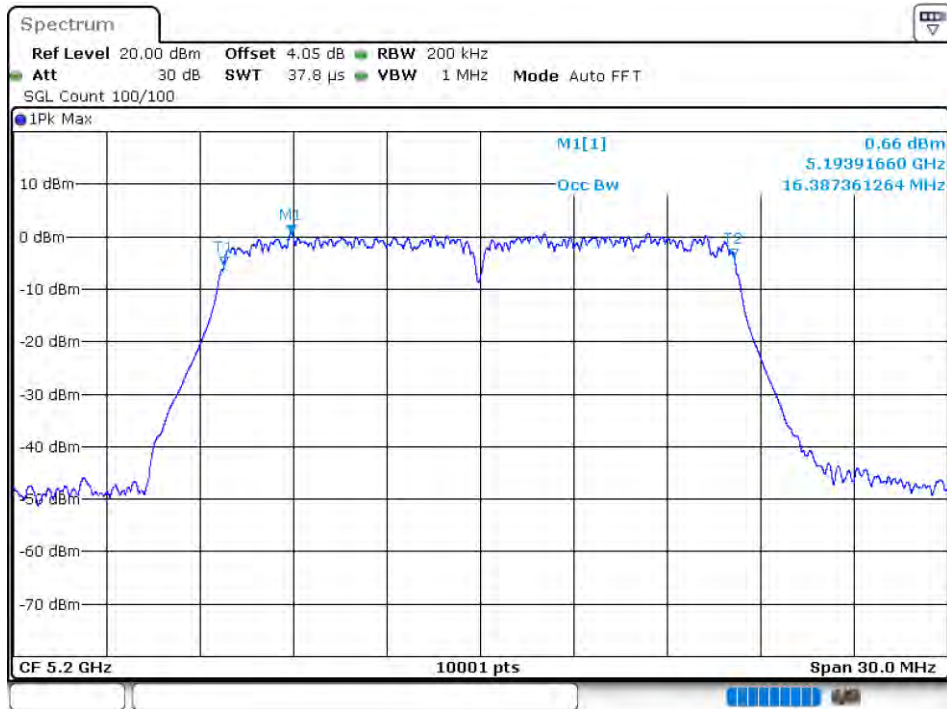
OBW NVNT a 5240MHz Ant0



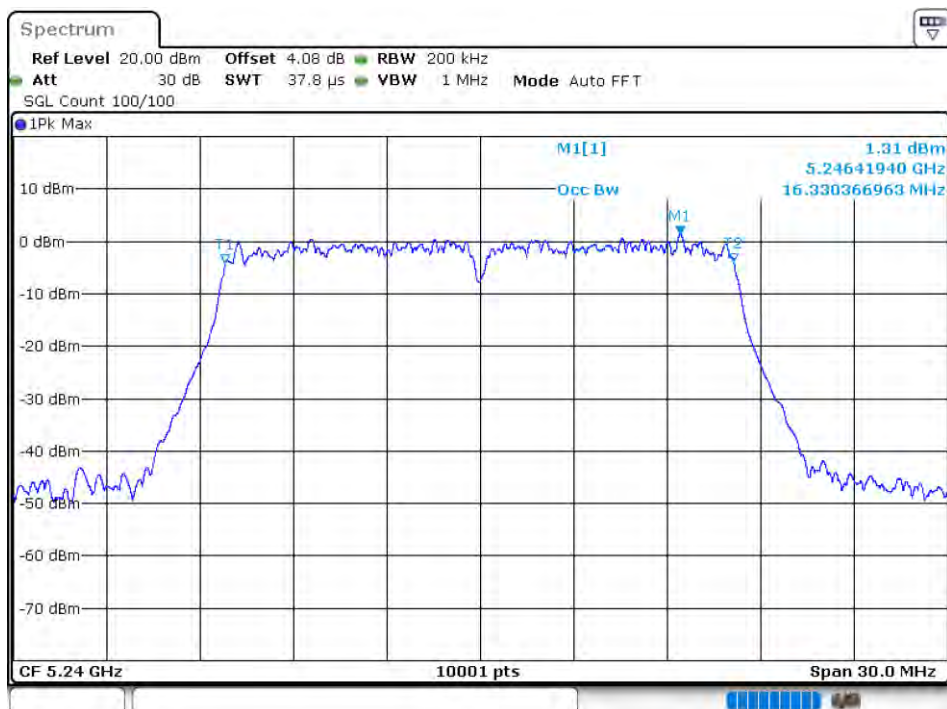
OBW NVNT a 5180MHz Ant1

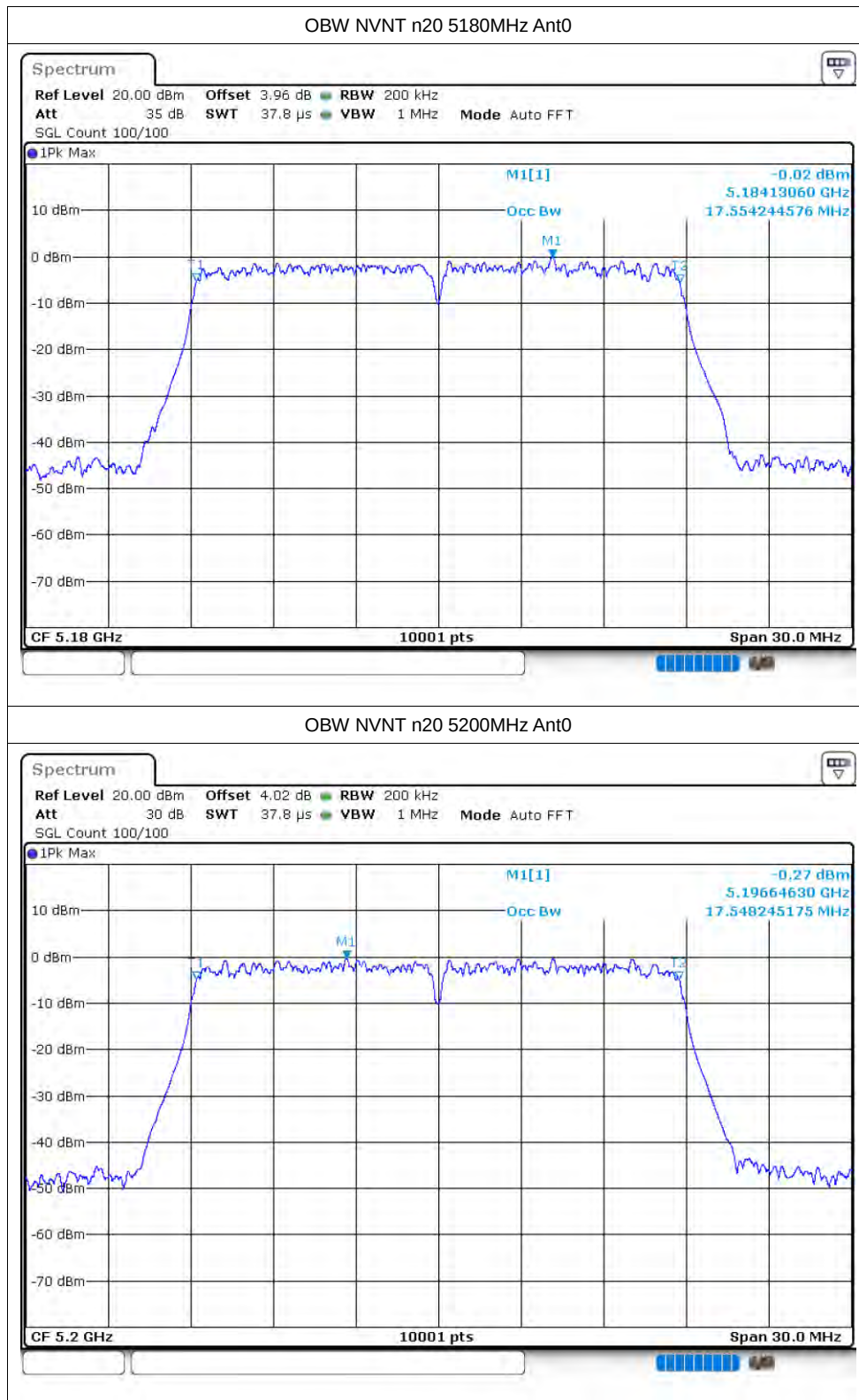


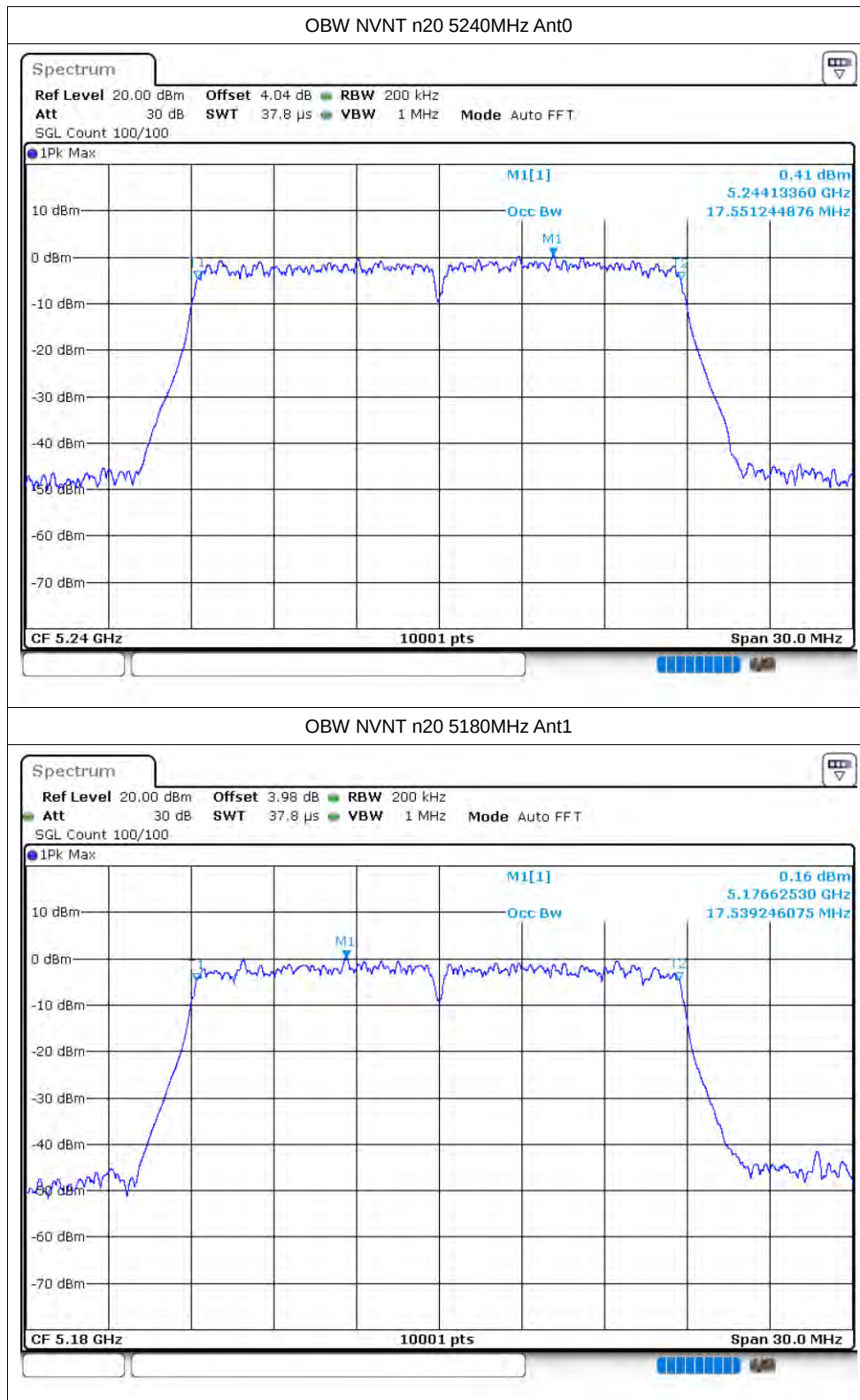
OBW NVNT a 5200MHz Ant1

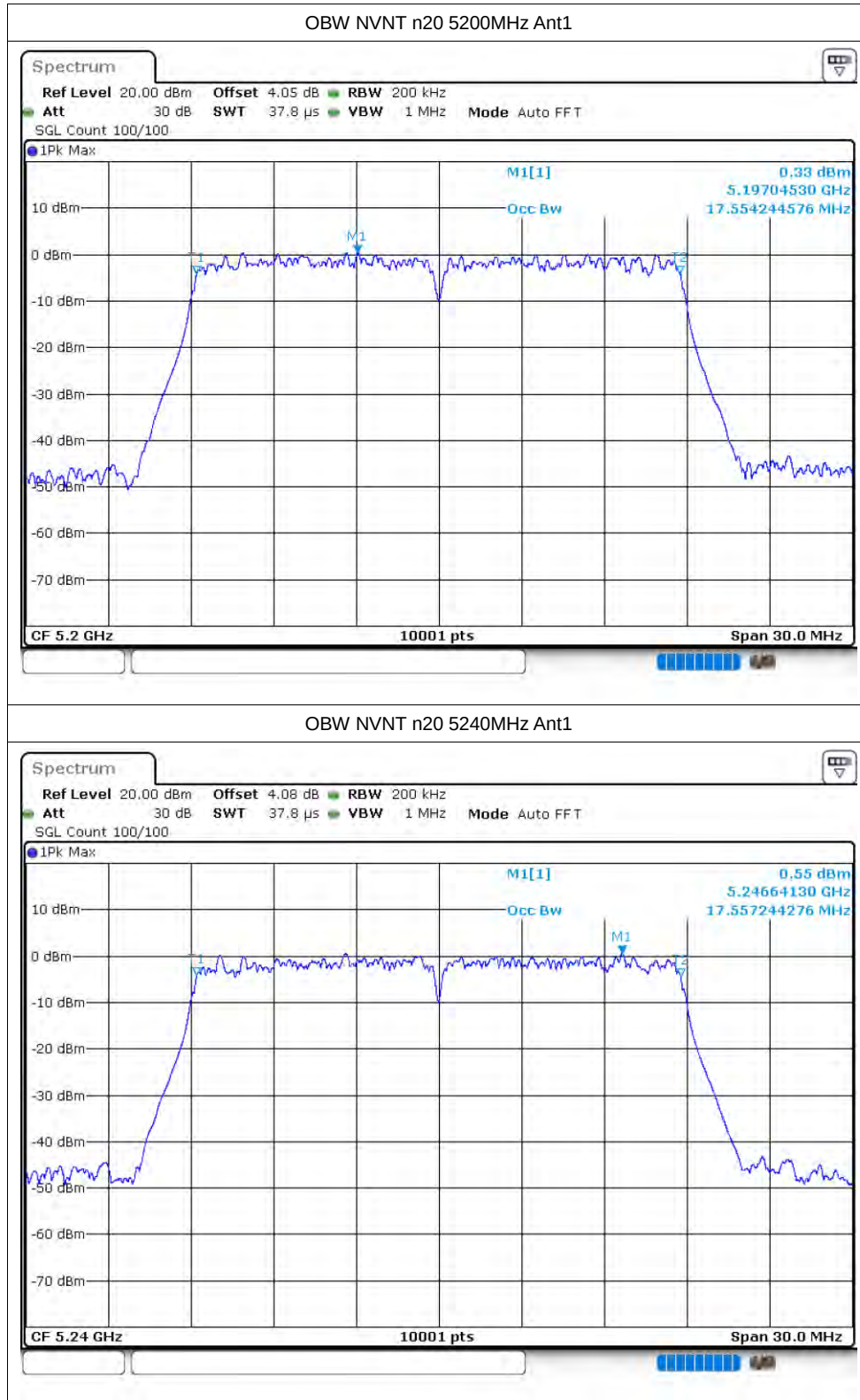


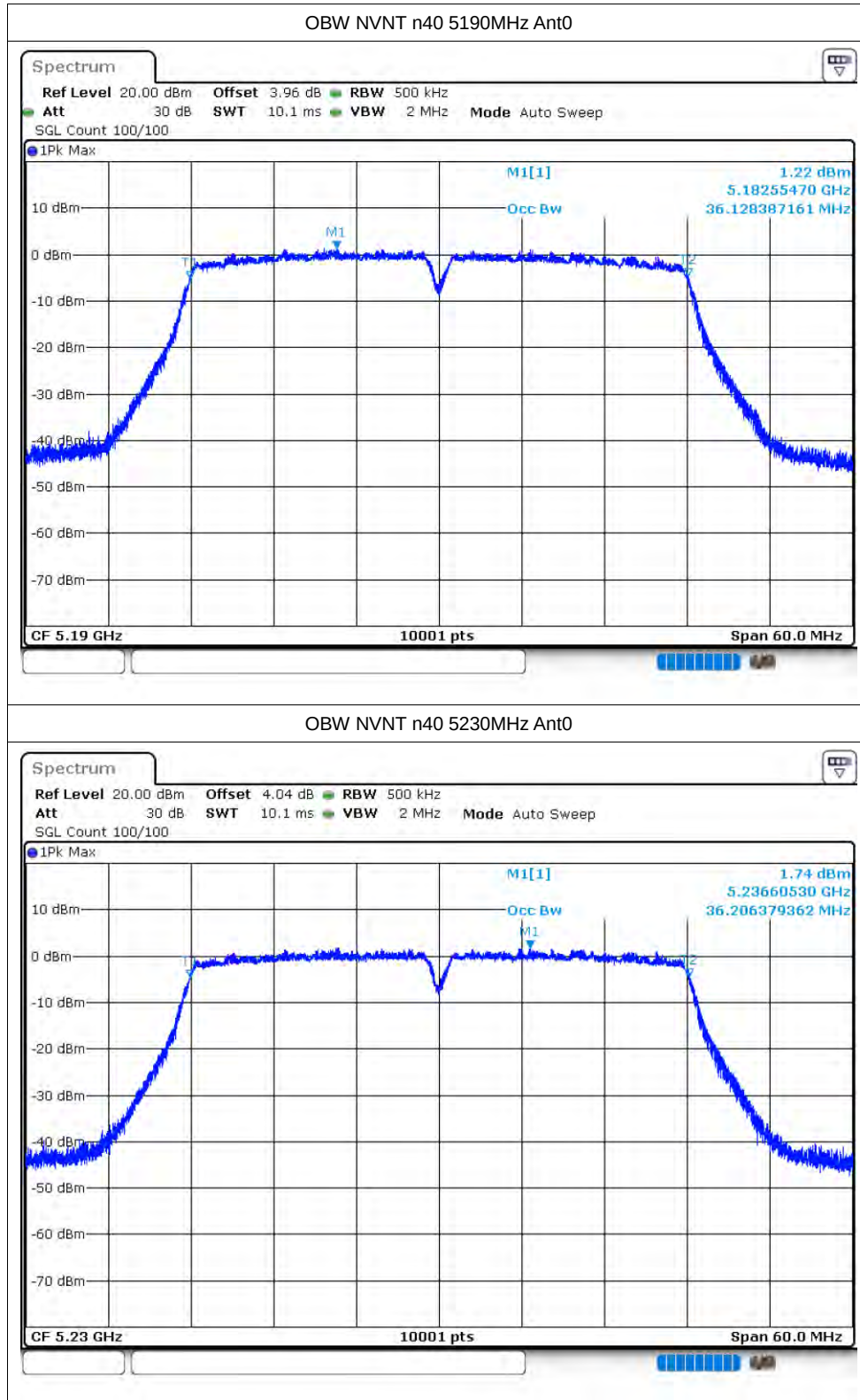
OBW NVNT a 5240MHz Ant1

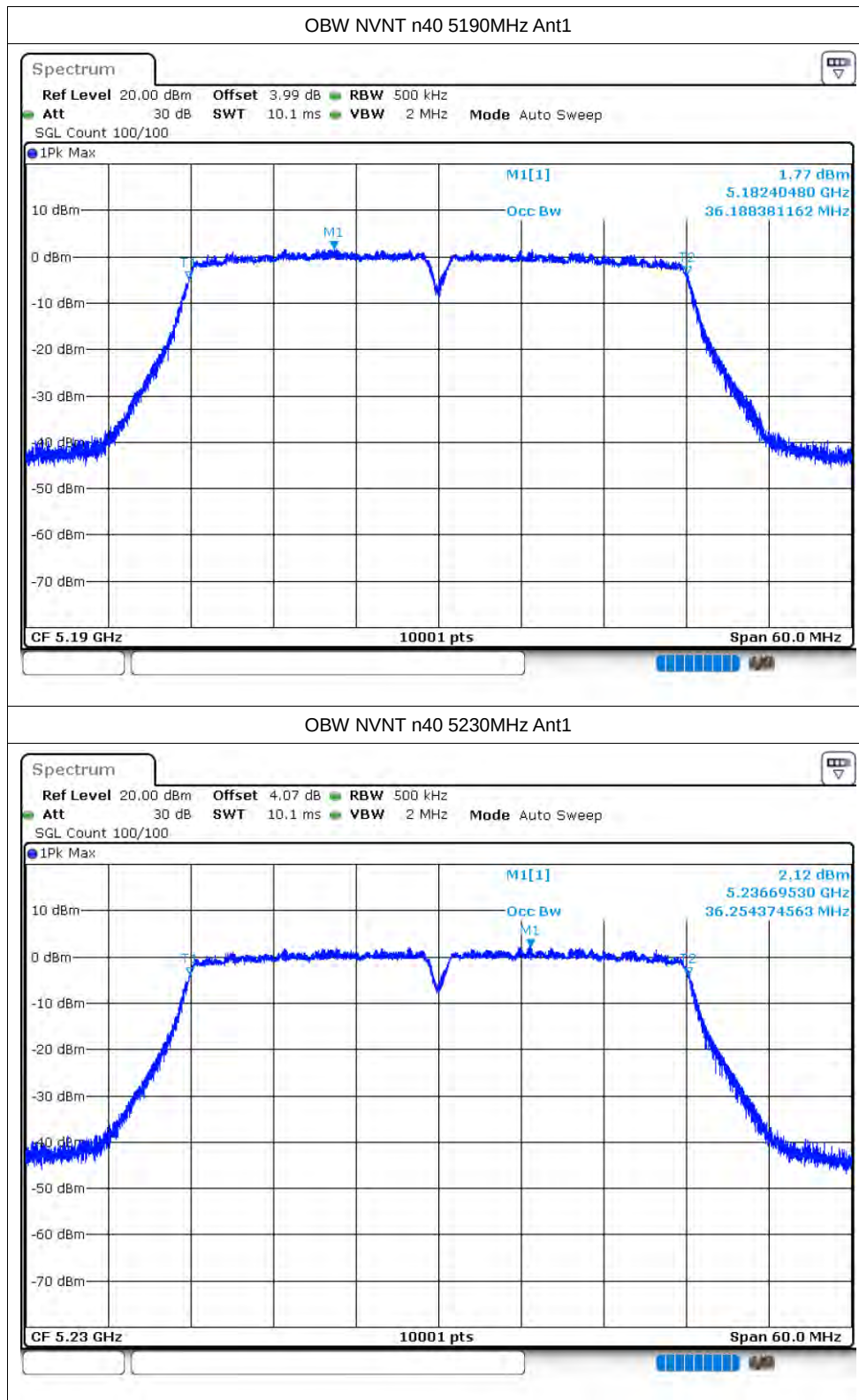


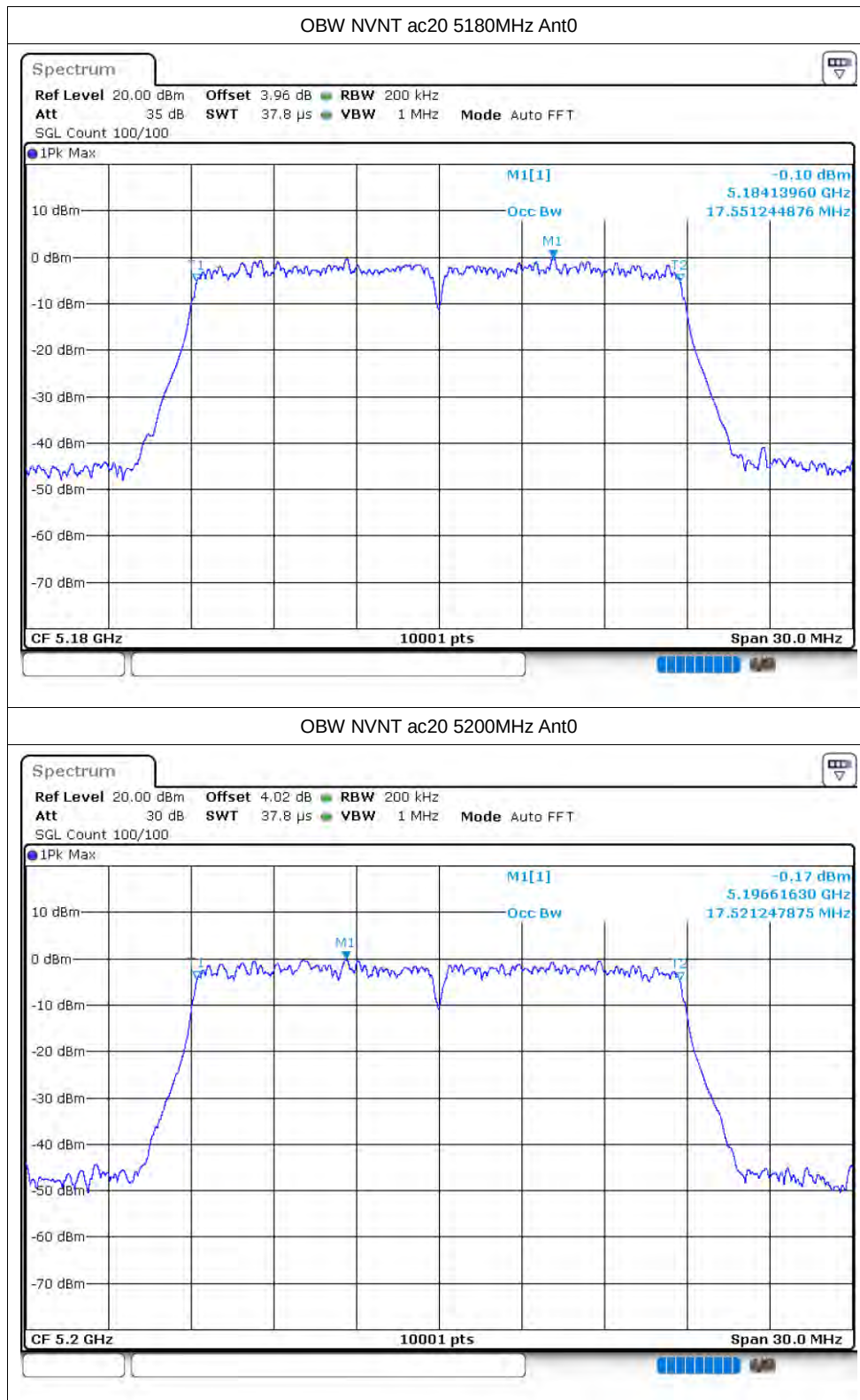


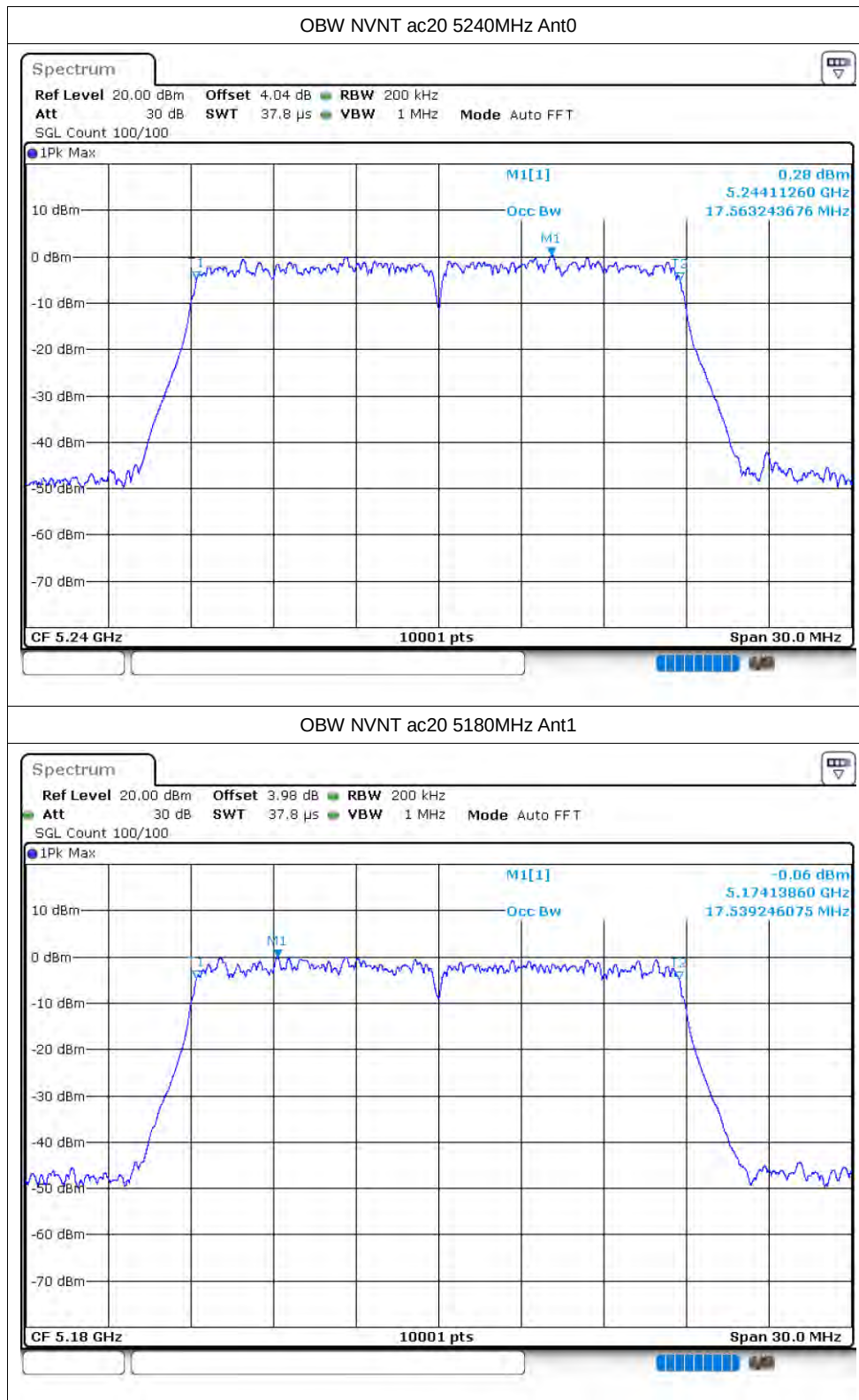


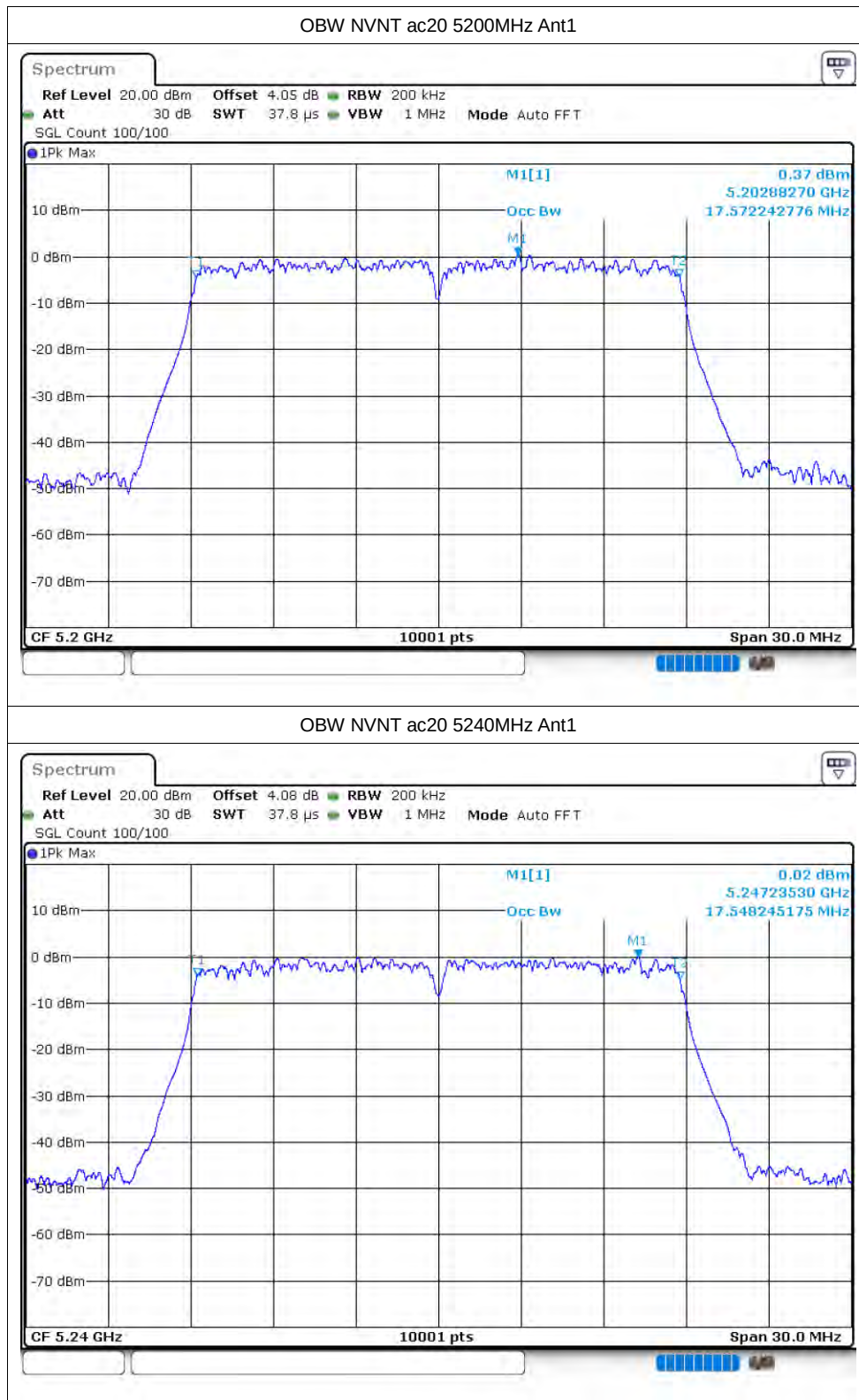


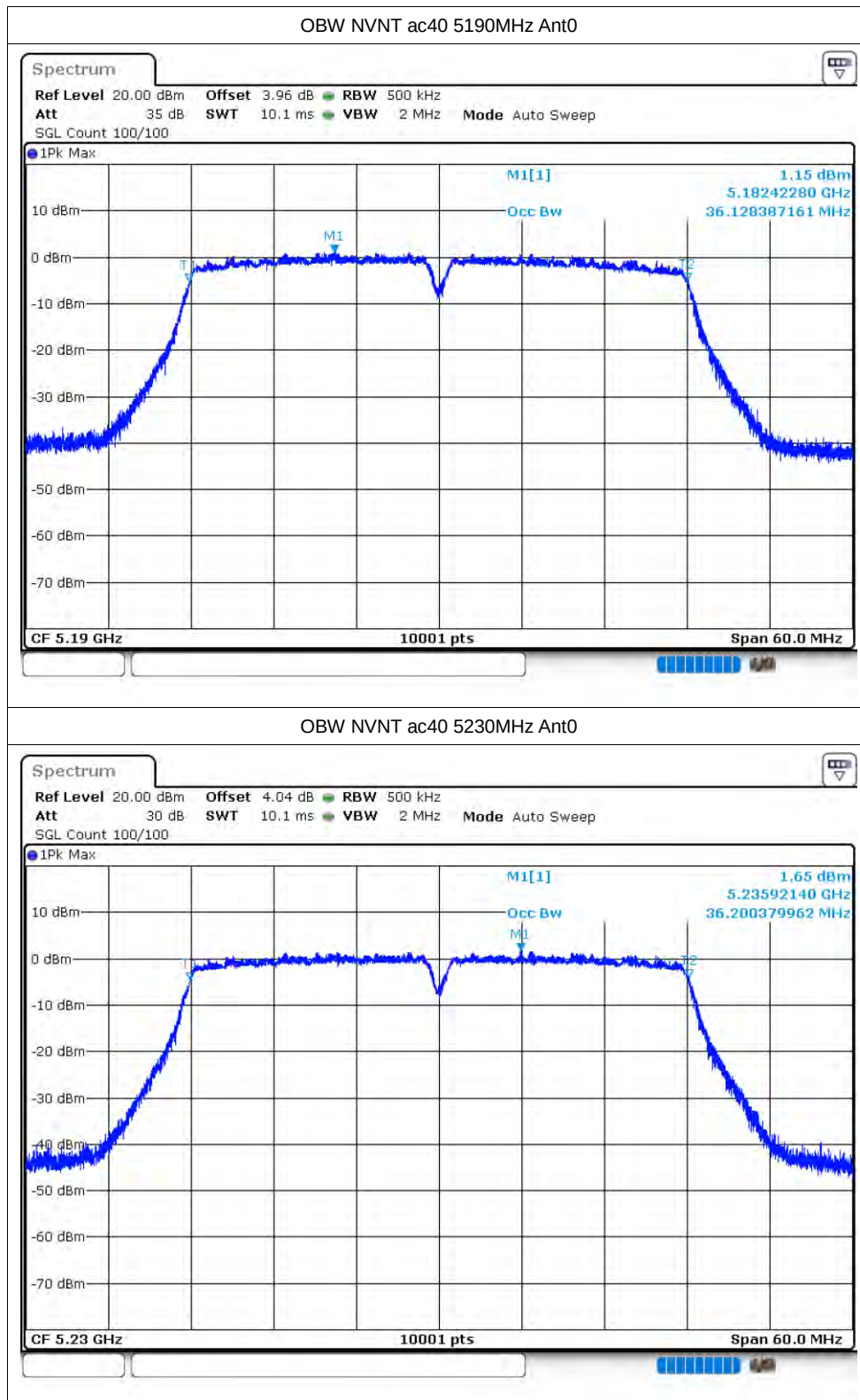


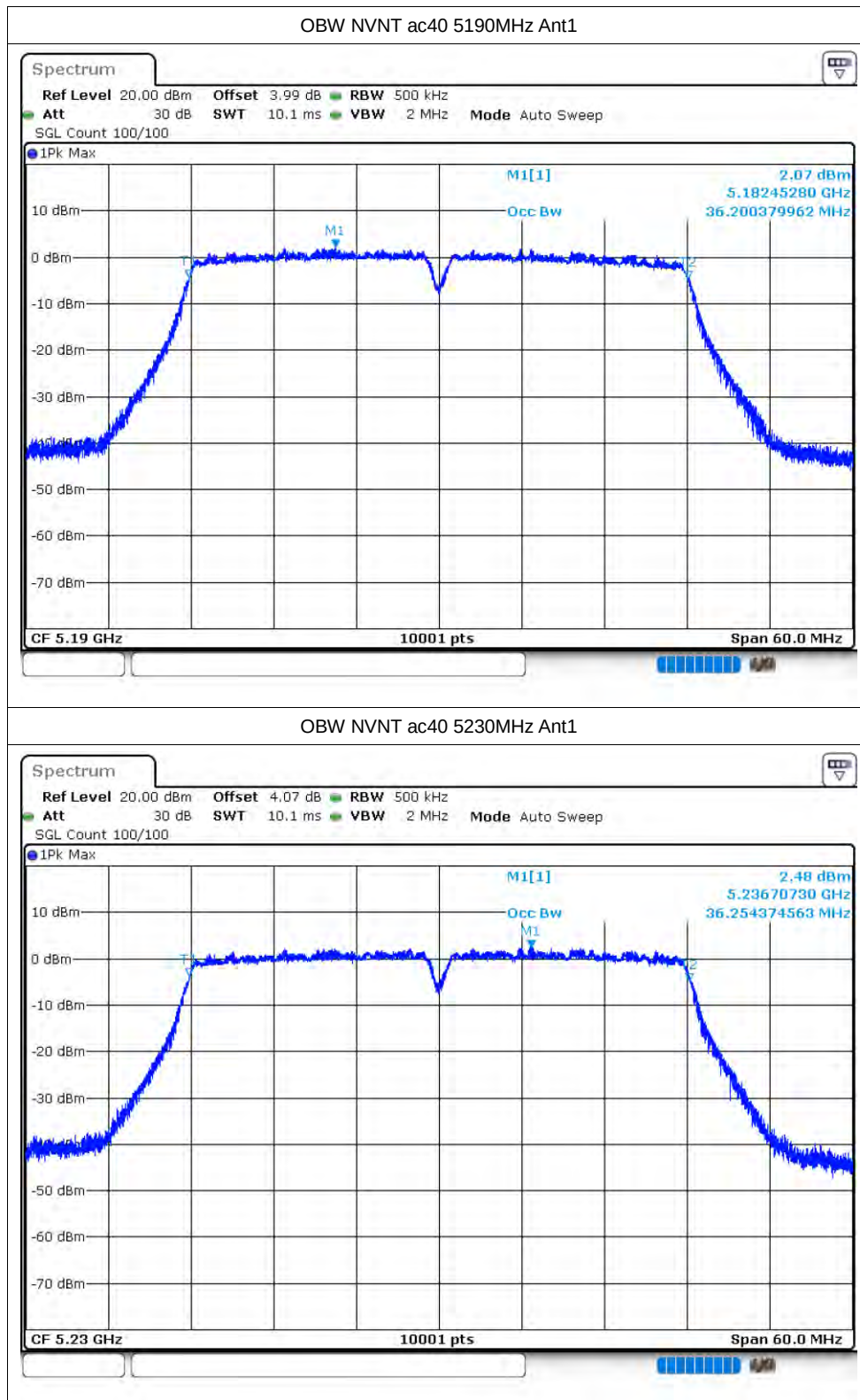


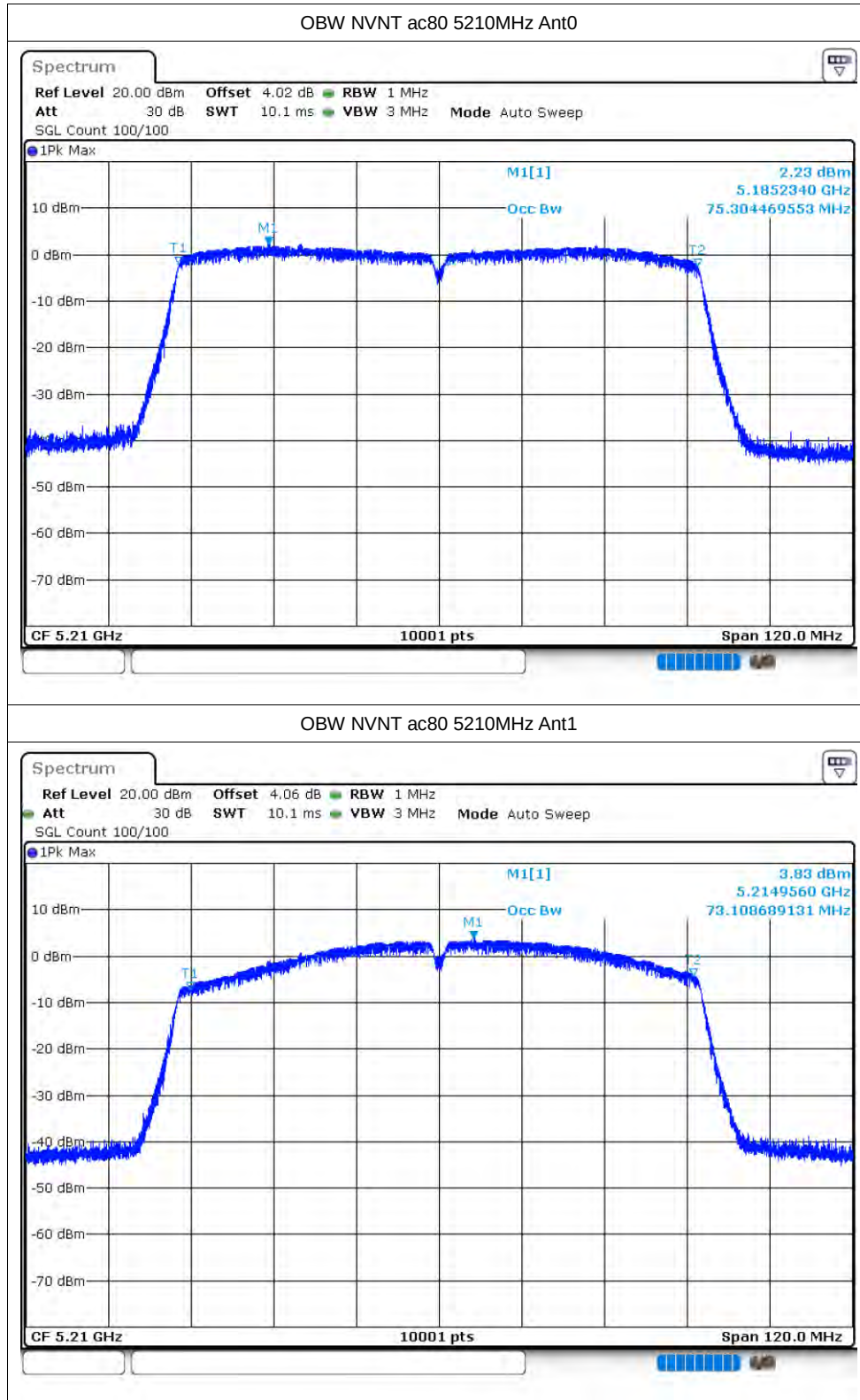










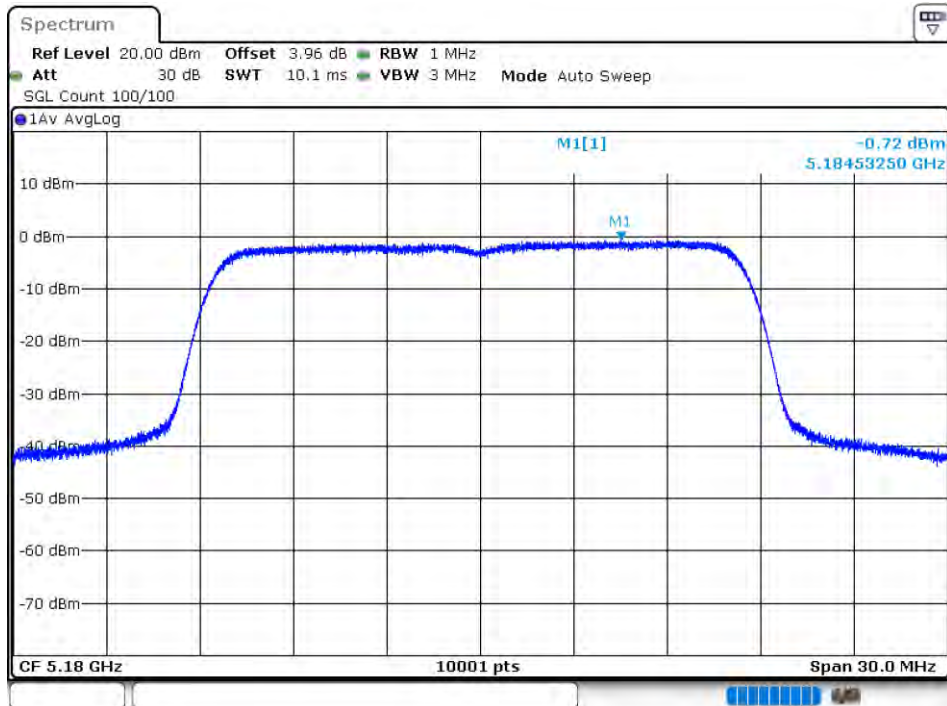


Maximum Power Spectral Density Level

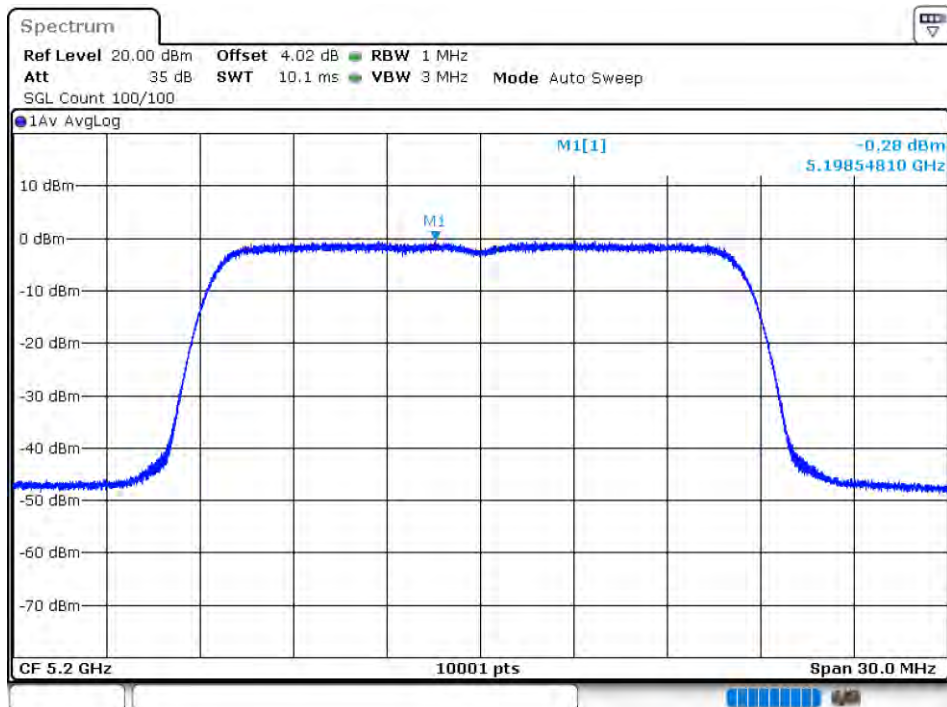
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant0	-0.72	0	-0.72	11	Pass
NVNT	a	5200	Ant0	-0.28	0	-0.28	11	Pass
NVNT	a	5240	Ant0	-0.18	0	-0.18	11	Pass
NVNT	a	5180	Ant1	-0.11	0	-0.11	11	Pass
NVNT	a	5200	Ant1	0.38	0	0.38	11	Pass
NVNT	a	5240	Ant1	0.35	0	0.35	11	Pass
NVNT	n20	5180	Ant0	-0.99	0	-0.99	11	Pass
NVNT	n20	5200	Ant0	-0.96	0	-0.96	11	Pass
NVNT	n20	5240	Ant0	-0.39	0	-0.39	11	Pass
NVNT	n20	5180	Ant1	-0.7	0	-0.7	11	Pass
NVNT	n20	5200	Ant1	-0.26	0	-0.26	11	Pass
NVNT	n20	5240	Ant1	-0.08	0	-0.08	11	Pass
NVNT	n40	5190	Ant0	-4	0	-4	11	Pass
NVNT	n40	5230	Ant0	-3.53	0	-3.53	11	Pass
NVNT	n40	5190	Ant1	-3.51	0	-3.51	11	Pass
NVNT	n40	5230	Ant1	-2.8	0	-2.8	11	Pass
NVNT	ac20	5180	Ant0	-1.1	0	-1.1	11	Pass
NVNT	ac20	5200	Ant0	-0.8	0	-0.8	11	Pass
NVNT	ac20	5240	Ant0	-0.75	0	-0.75	11	Pass
NVNT	ac20	5180	Ant1	-0.85	0	-0.85	11	Pass
NVNT	ac20	5200	Ant1	-0.33	0	-0.33	11	Pass
NVNT	ac20	5240	Ant1	-0.26	0	-0.26	11	Pass
NVNT	ac40	5190	Ant0	-3.8	0	-3.8	11	Pass
NVNT	ac40	5230	Ant0	-3.57	0	-3.57	11	Pass
NVNT	ac40	5190	Ant1	-3.31	0	-3.31	11	Pass
NVNT	ac40	5230	Ant1	-2.55	0	-2.55	11	Pass
NVNT	ac80	5210	Ant0	-7.19	0	-7.19	11	Pass
NVNT	ac80	5210	Ant1	-5.34	0	-5.34	11	Pass

Test Graphs

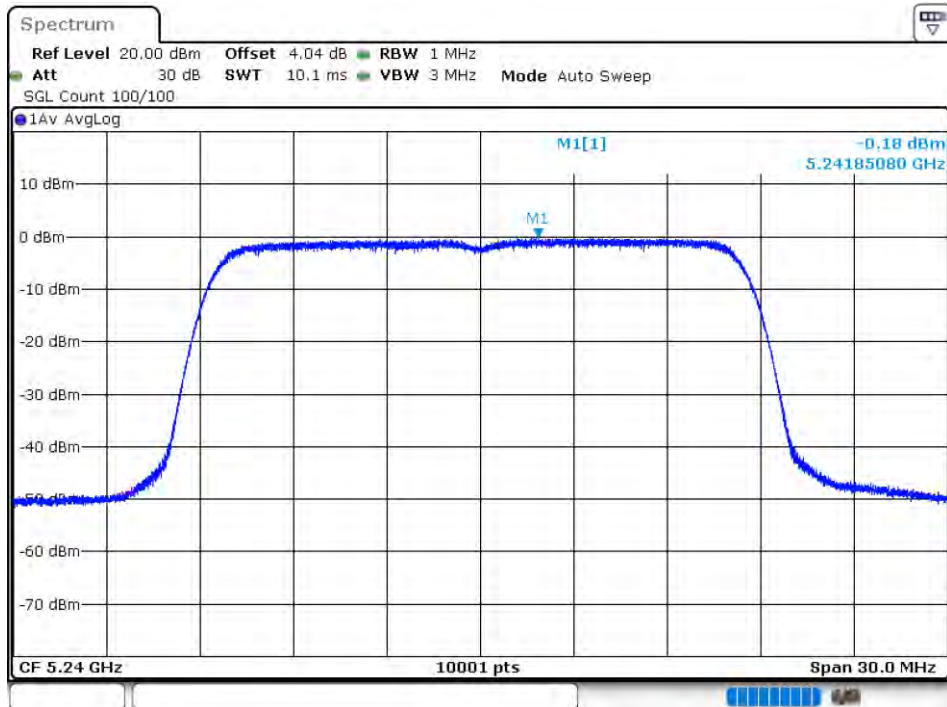
PSD NVNT a 5180MHz Ant0



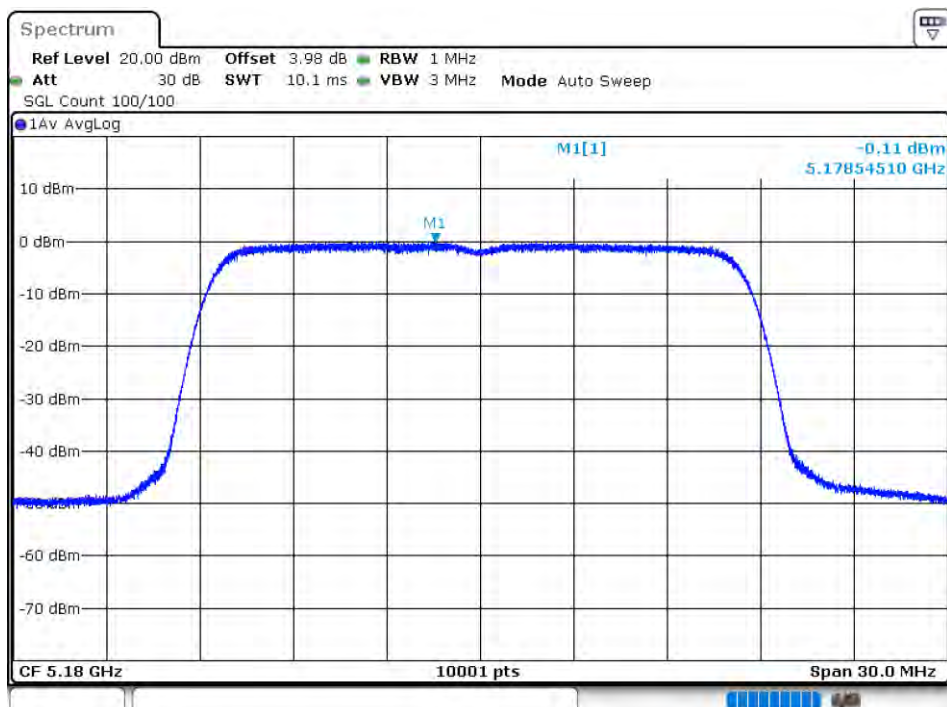
PSD NVNT a 5200MHz Ant0

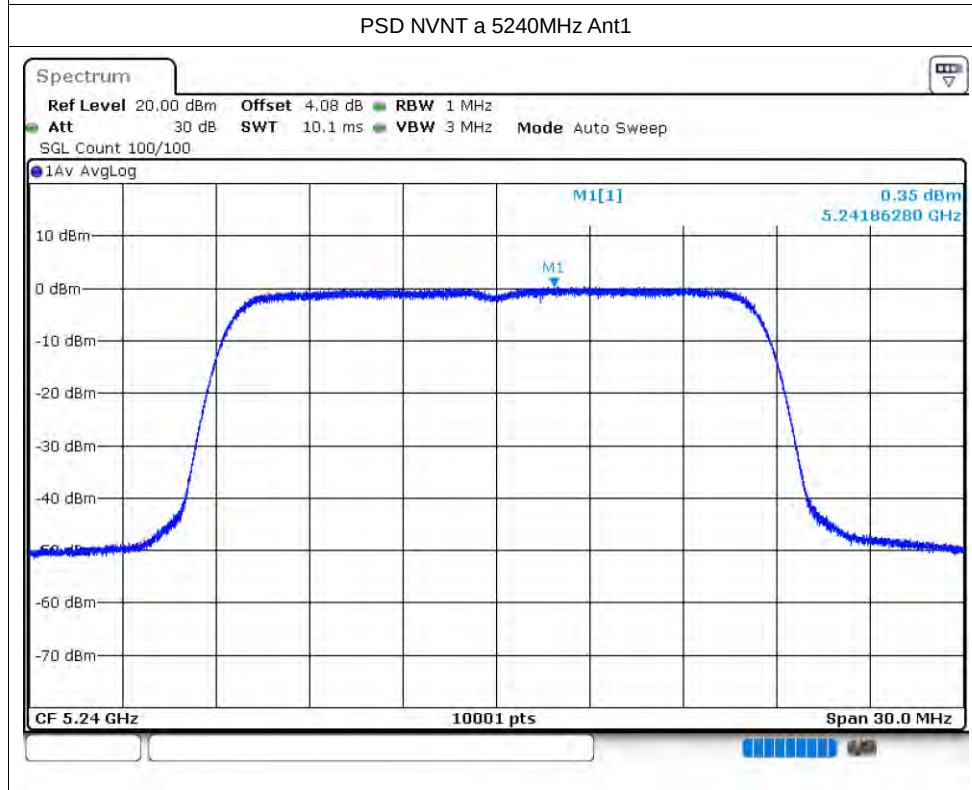
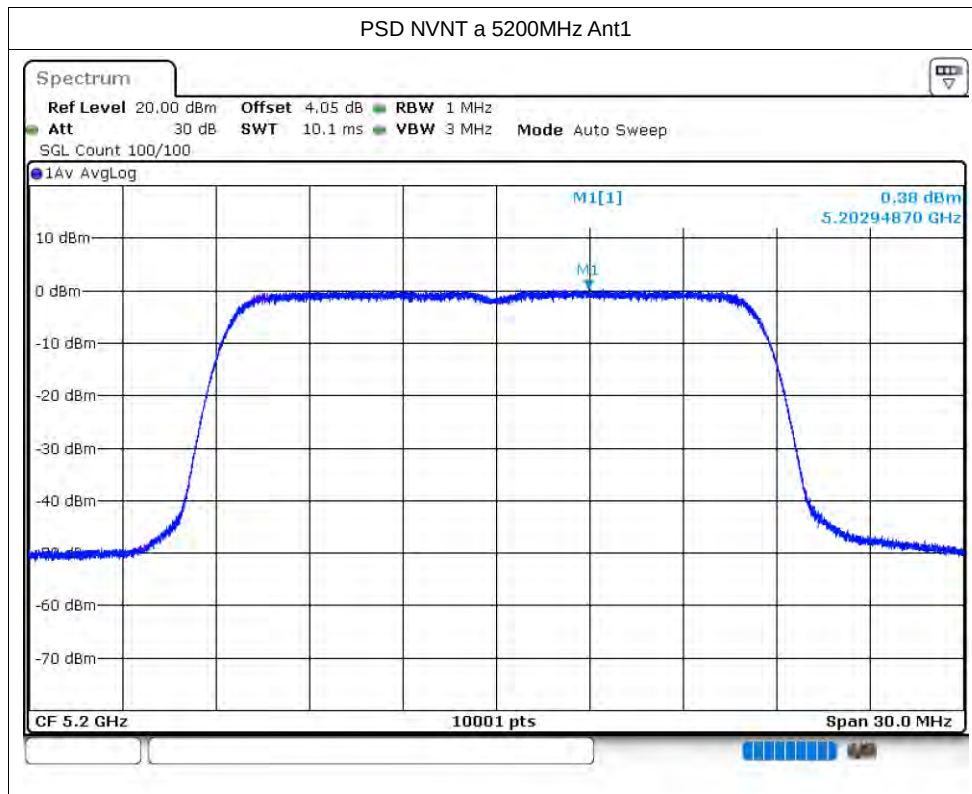


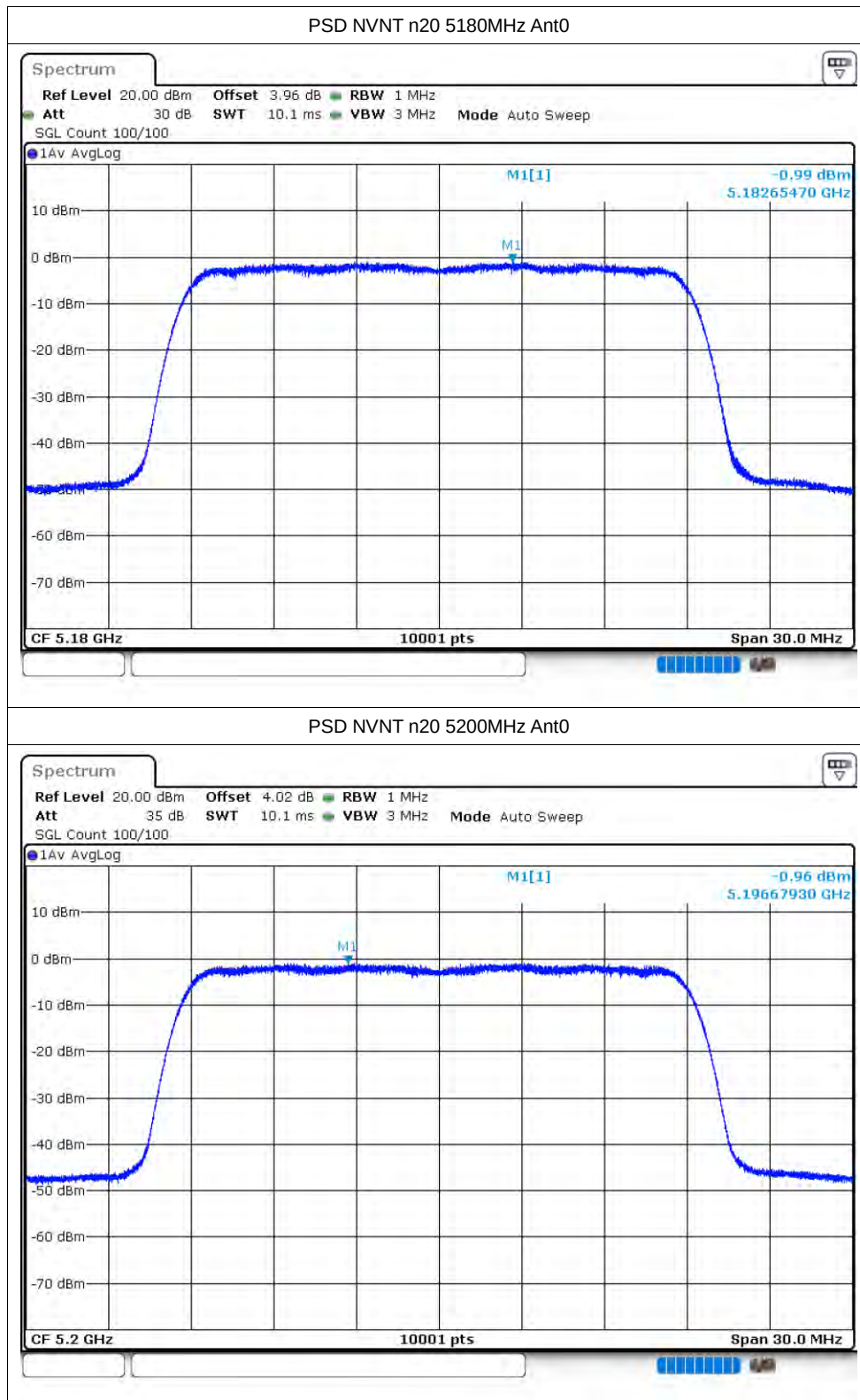
PSD NVNT a 5240MHz Ant0

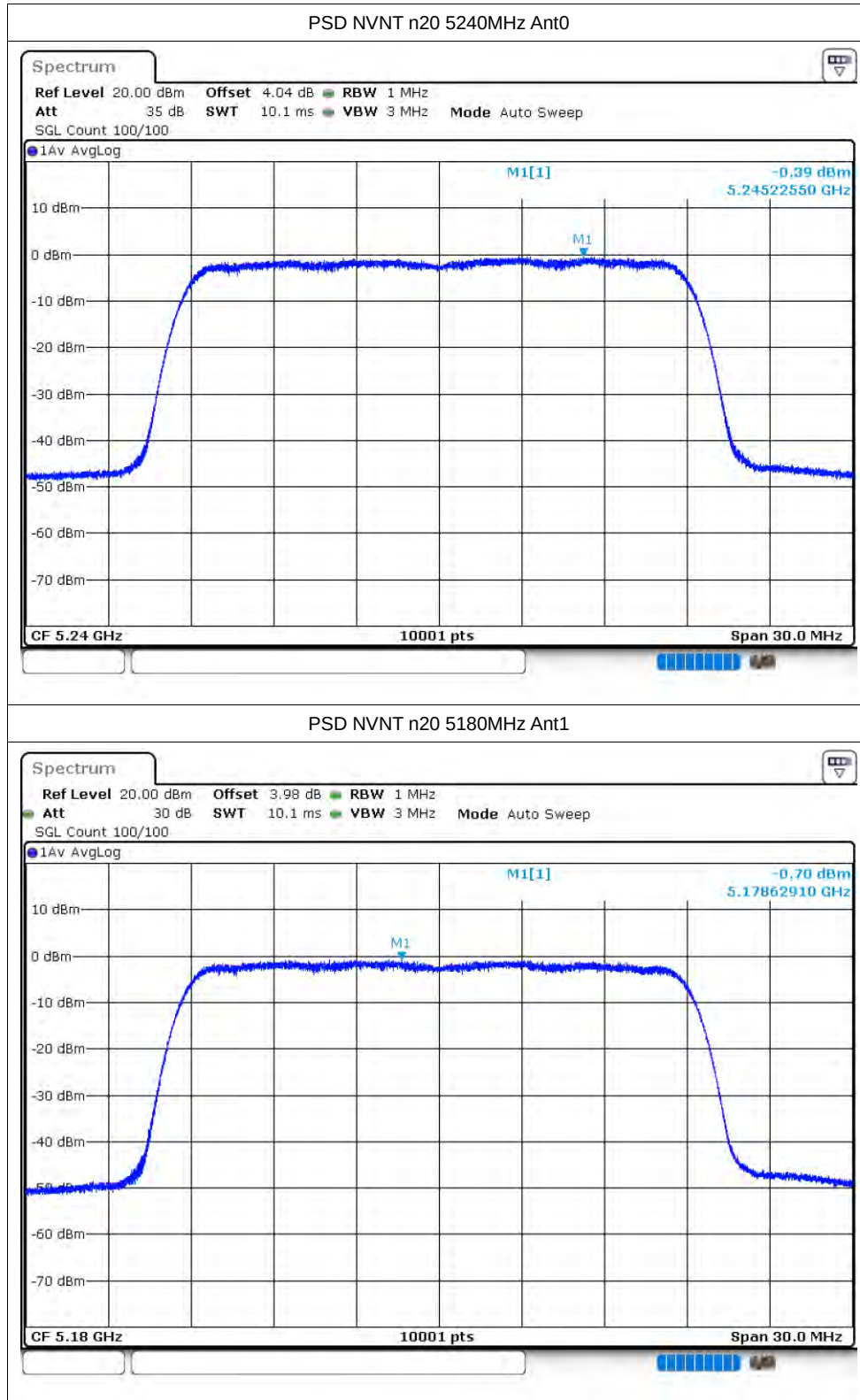


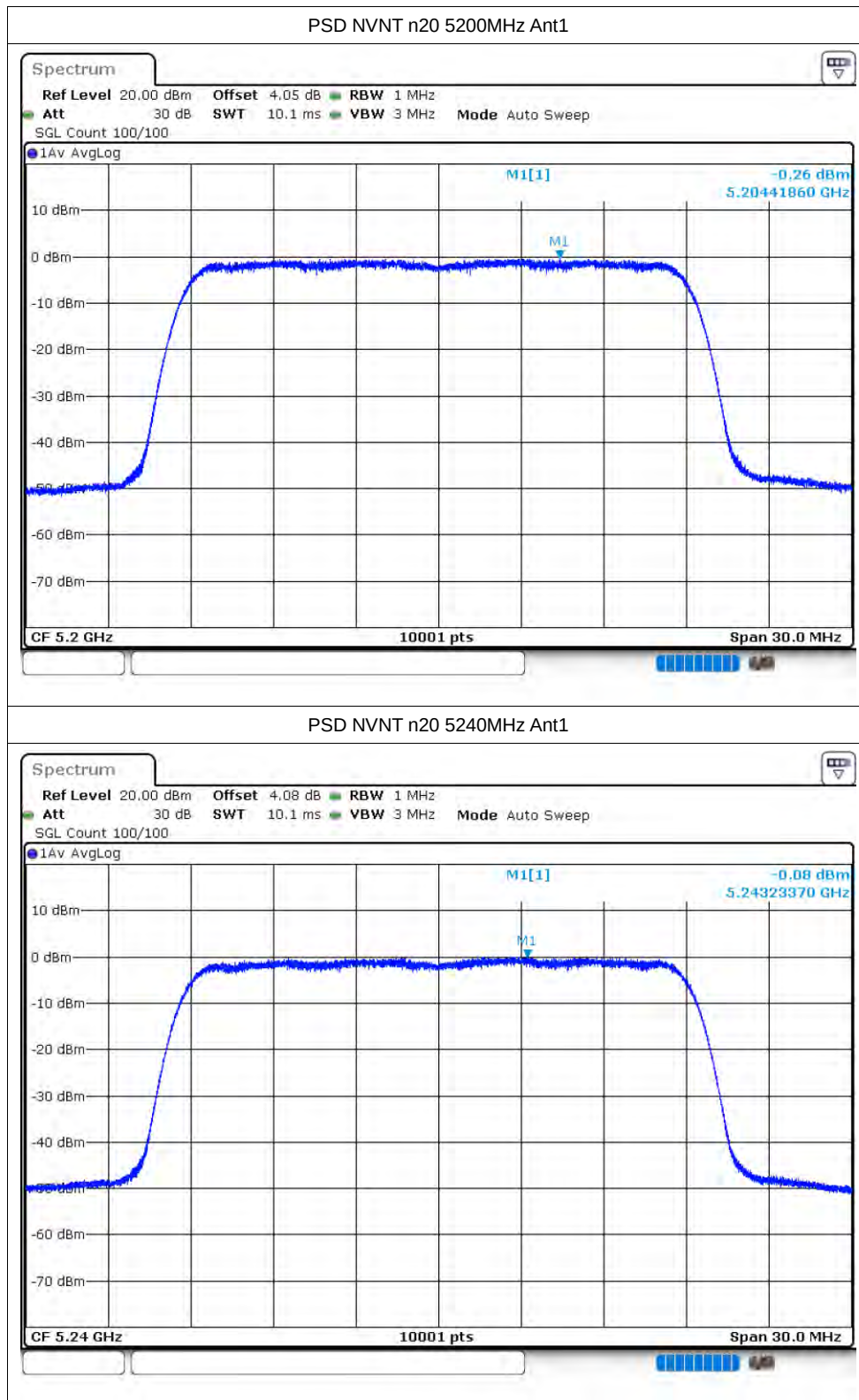
PSD NVNT a 5180MHz Ant1

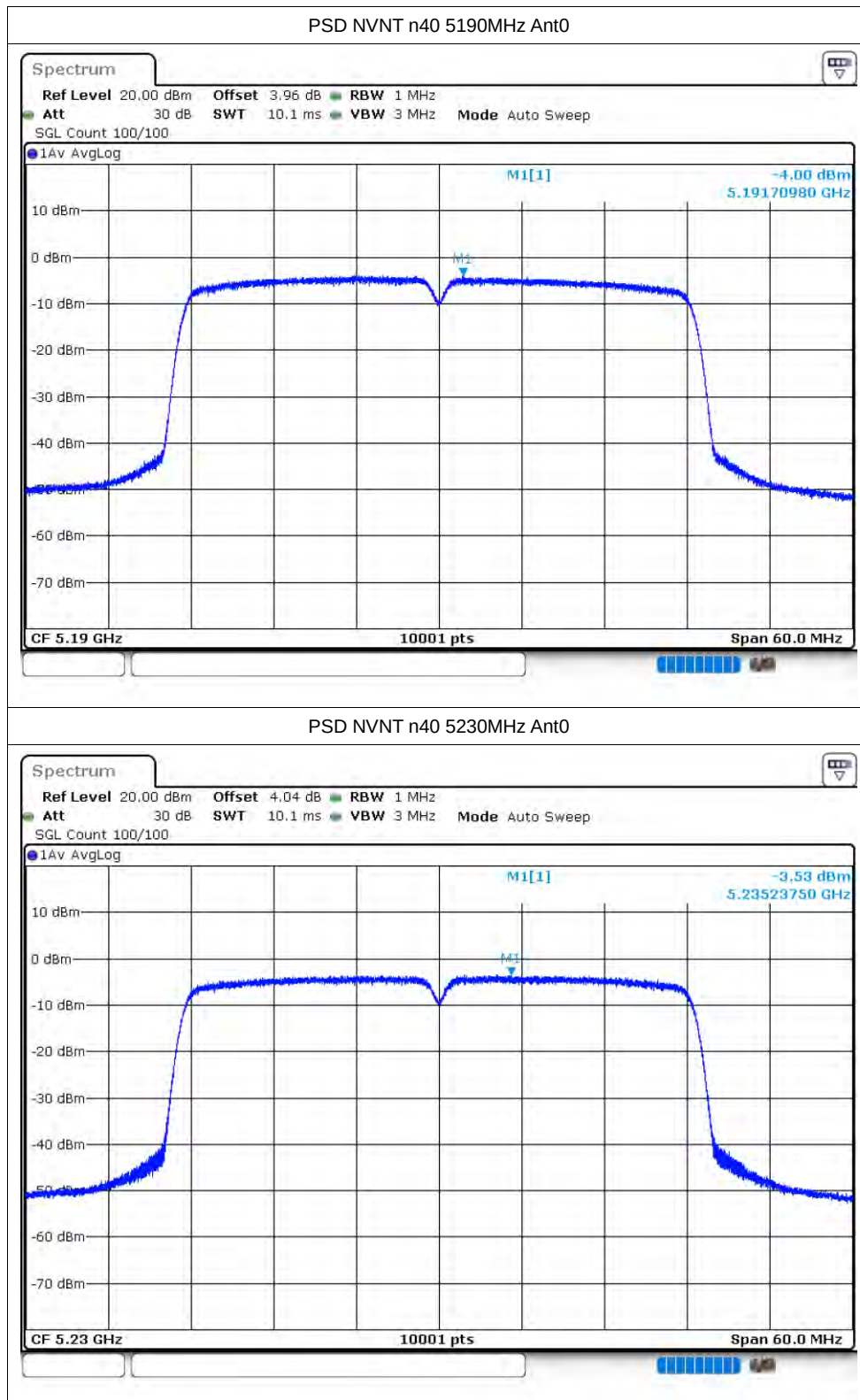


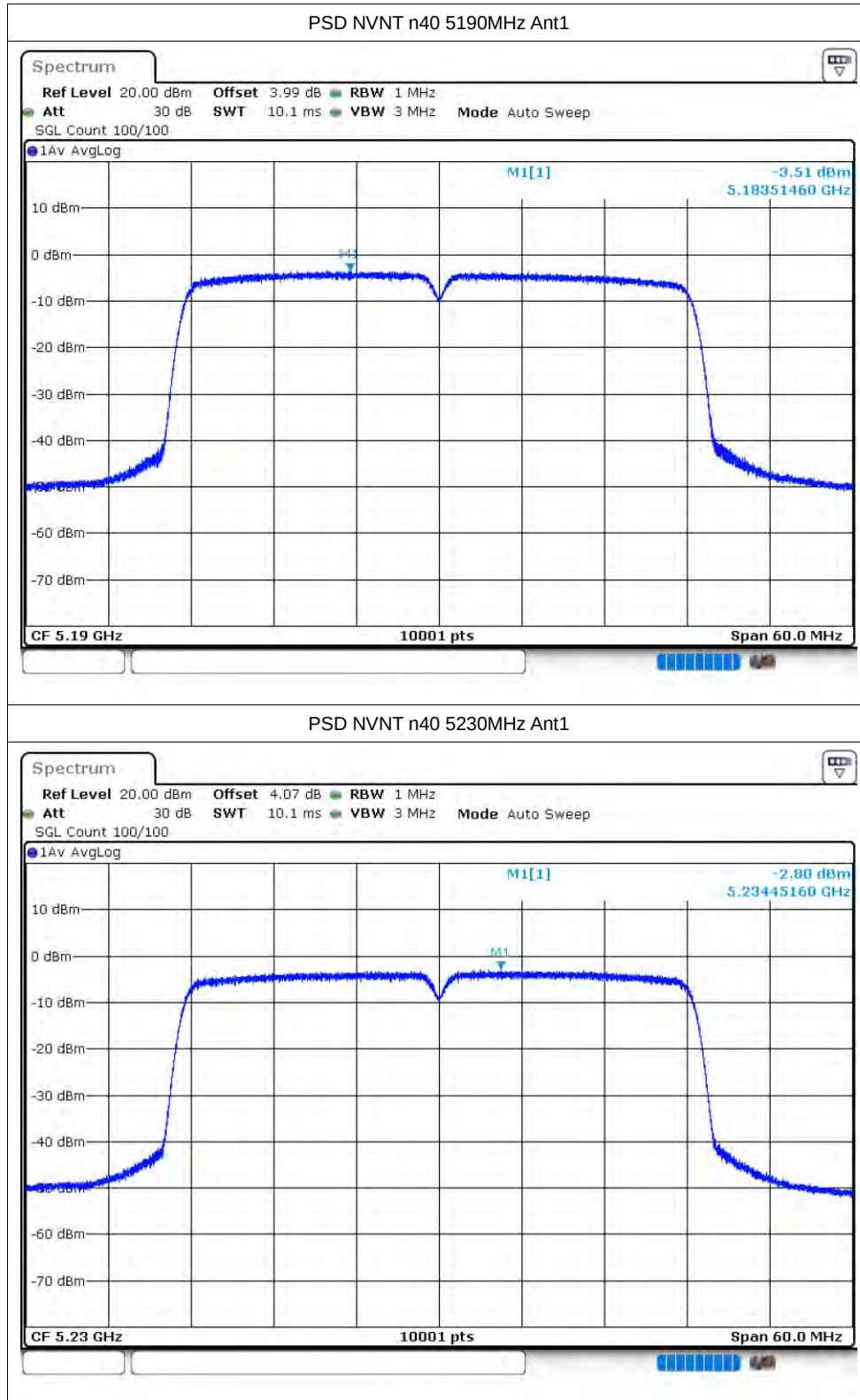


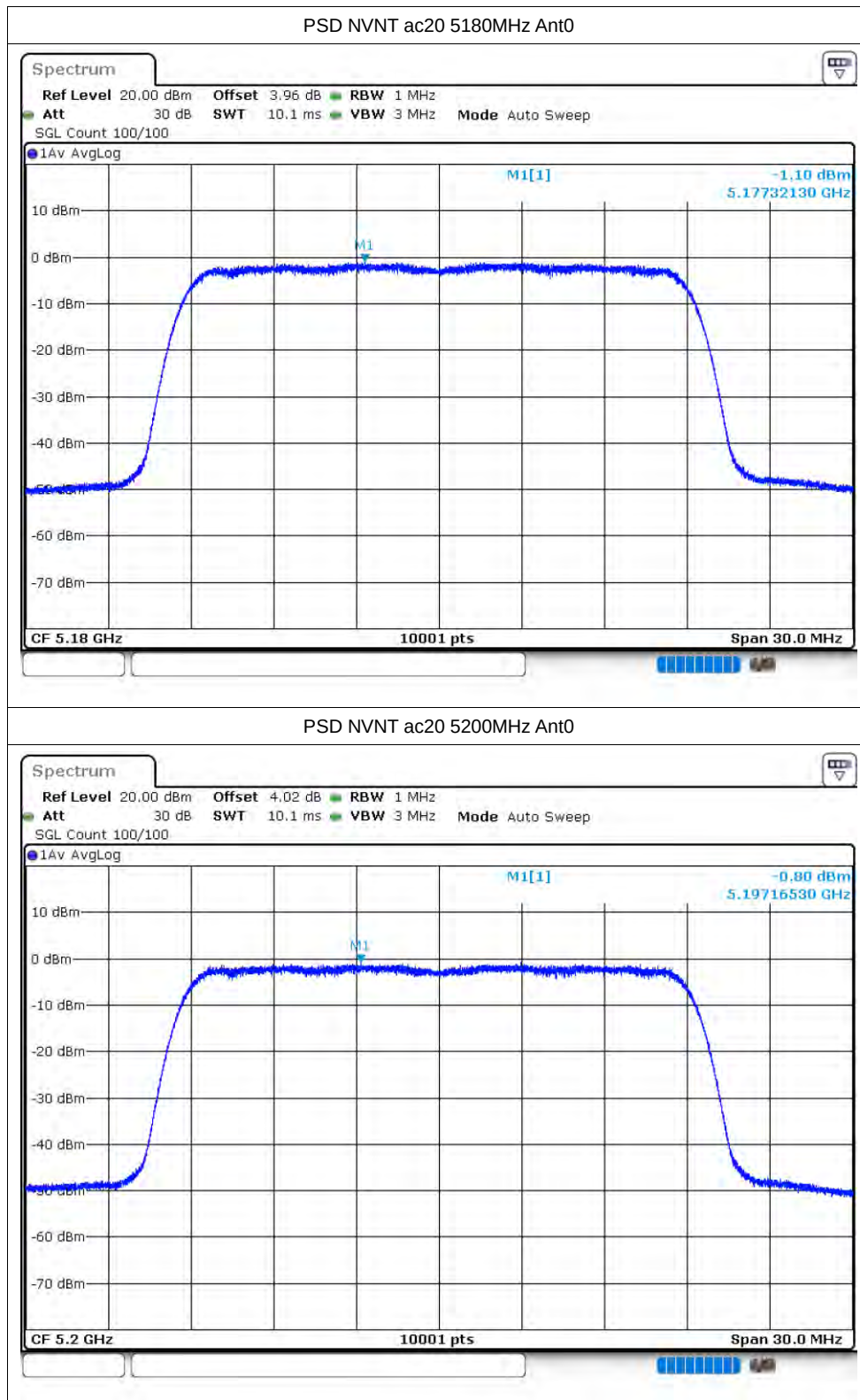


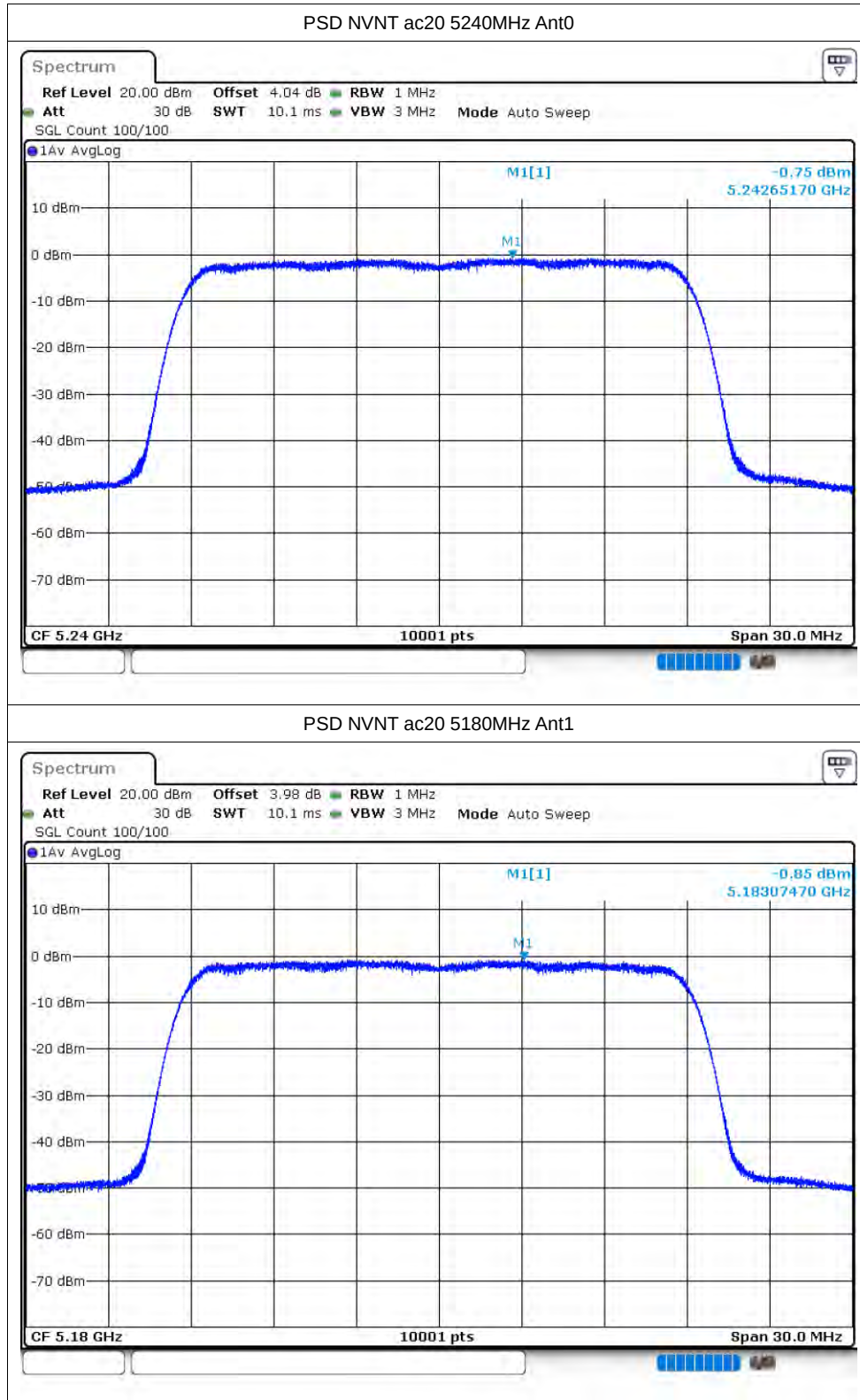


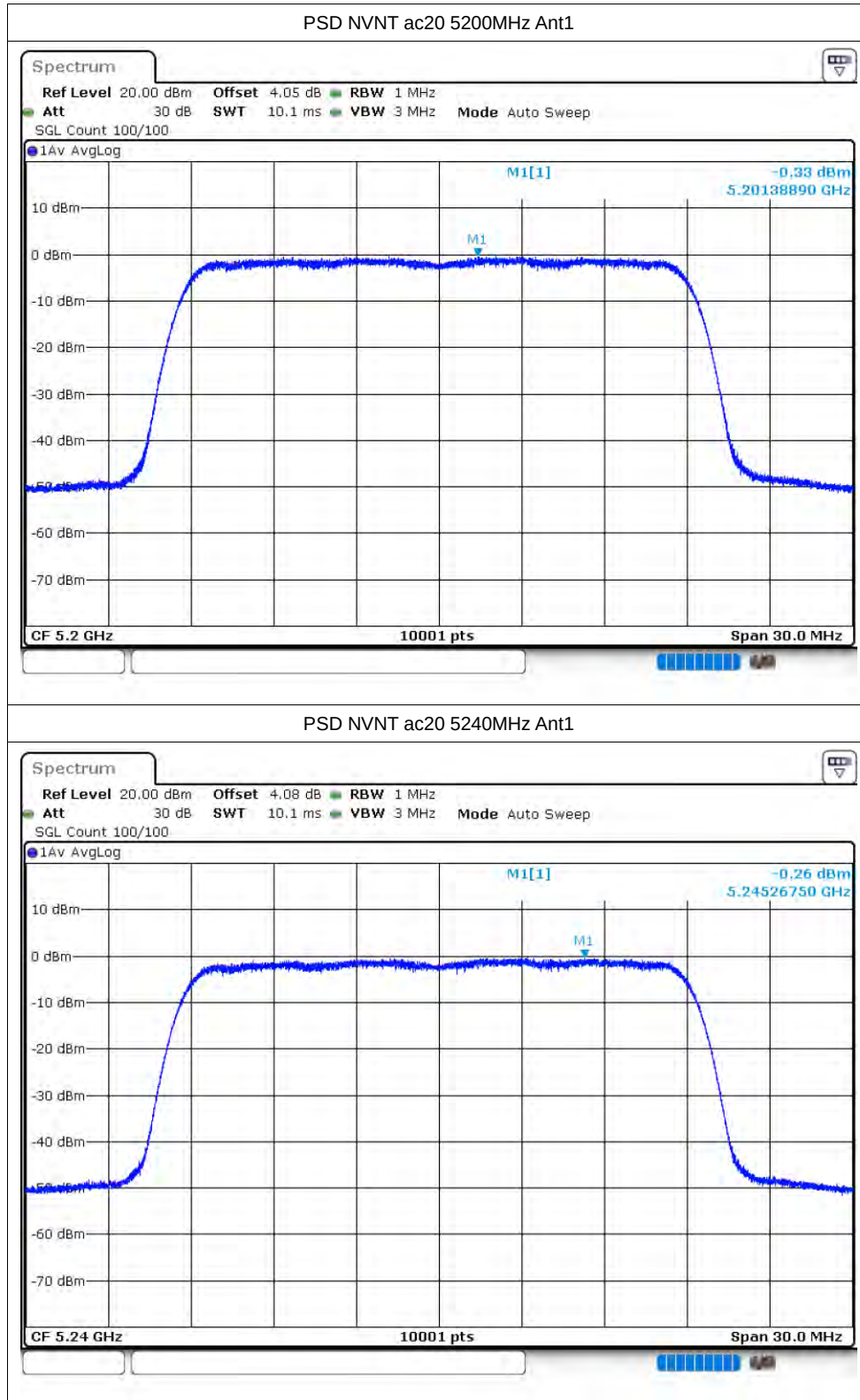


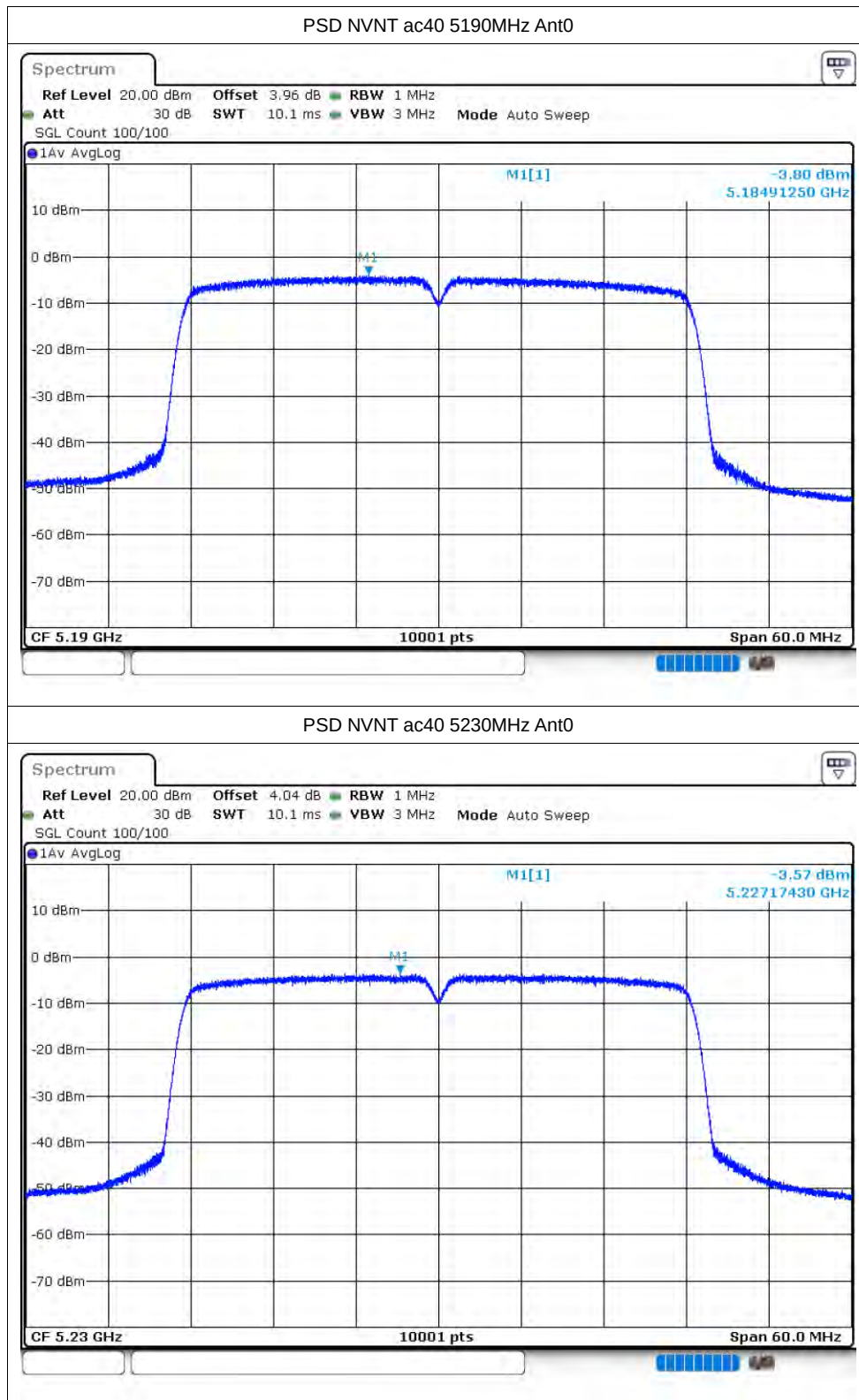


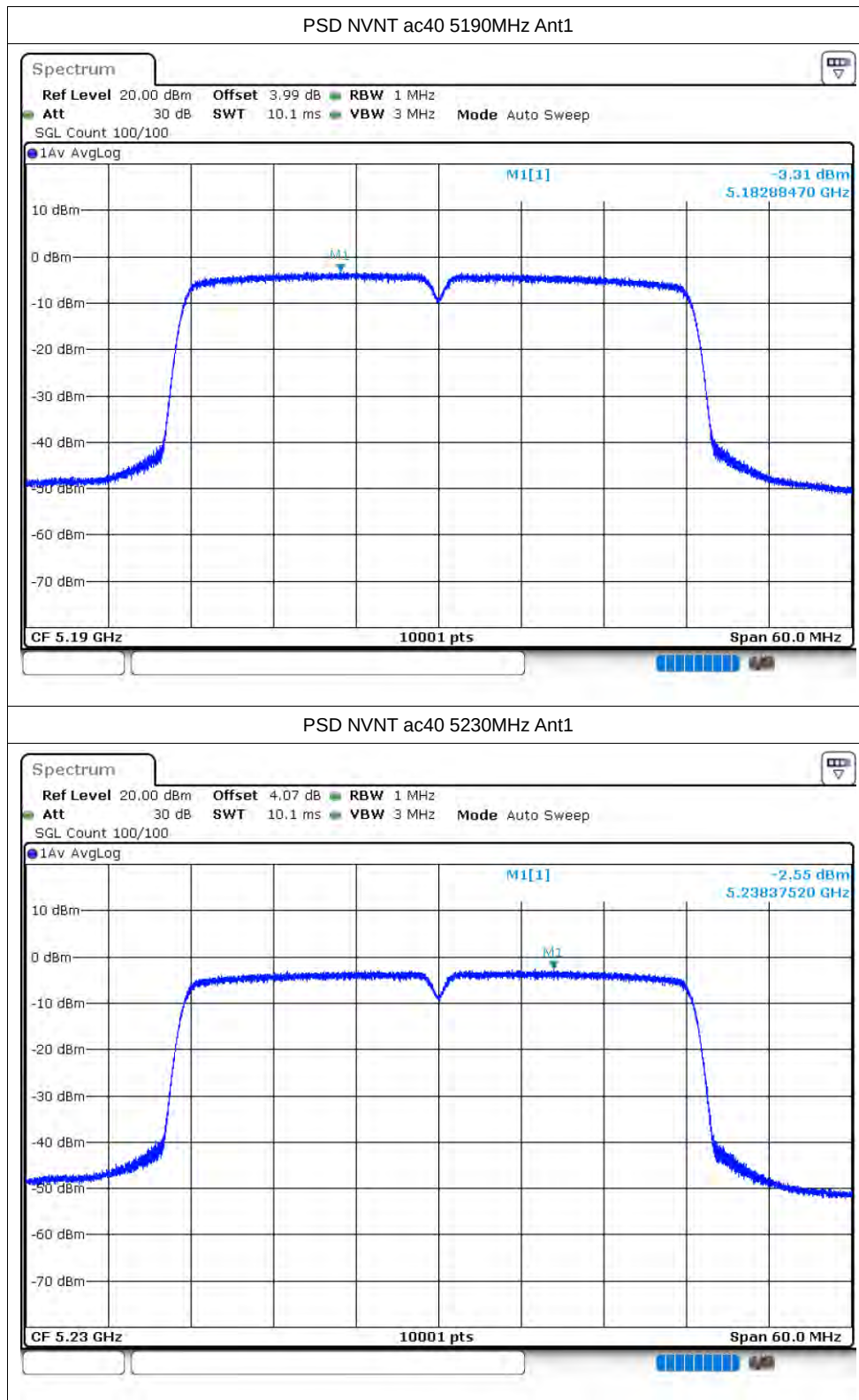


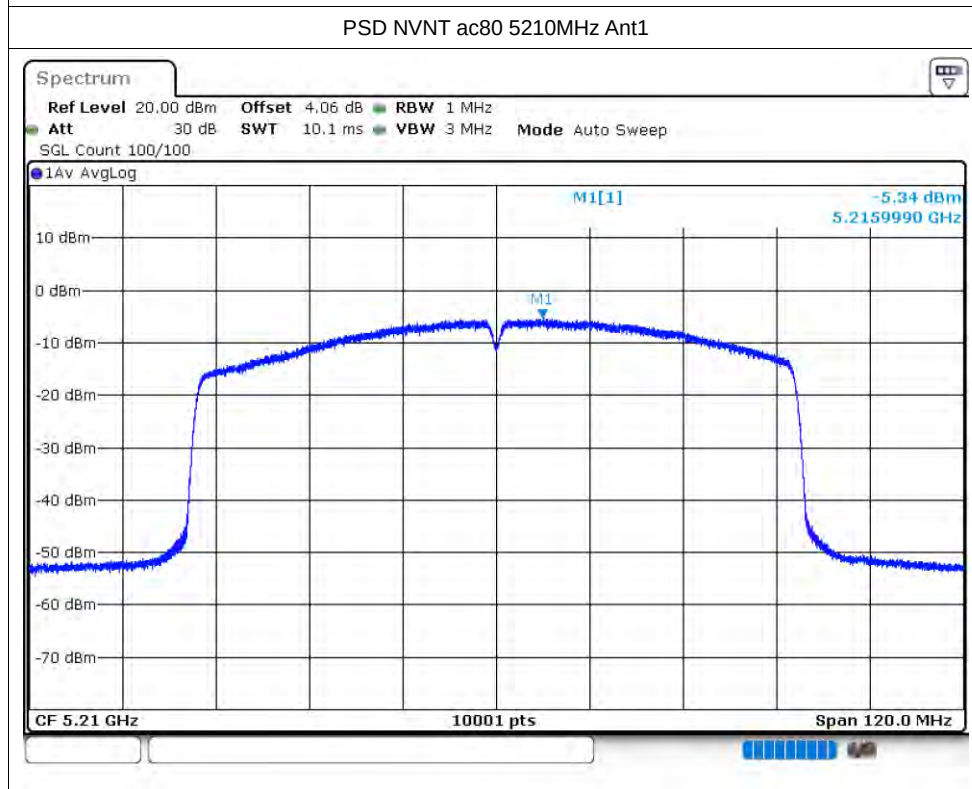
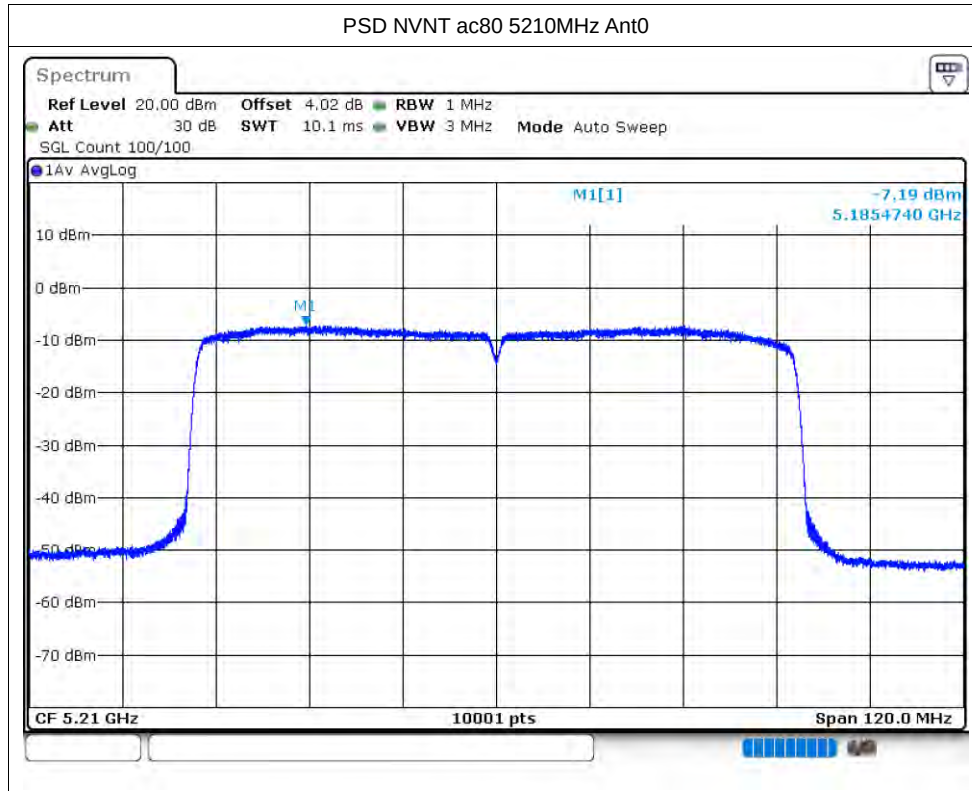












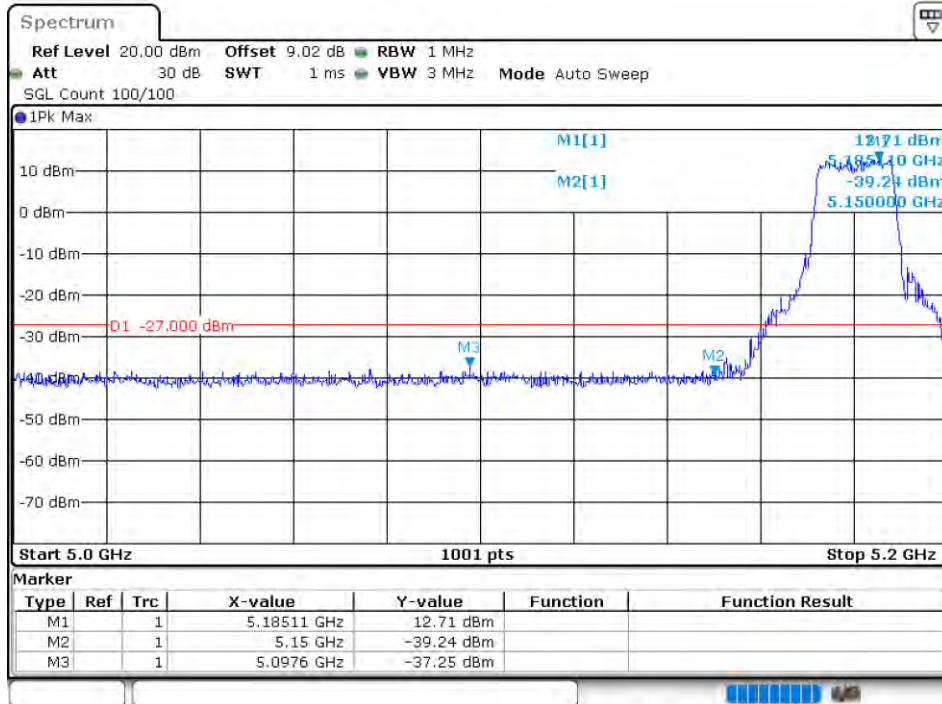
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant0	-37.25	-27	Pass
NVNT	a	5240	Ant0	-37.56	-27	Pass
NVNT	a	5180	Ant1	-36.17	-27	Pass
NVNT	a	5240	Ant1	-37.92	-27	Pass
NVNT	n20	5180	Ant0	-37.11	-27	Pass
NVNT	n20	5240	Ant0	-36.34	-27	Pass
NVNT	n20	5180	Ant1	-37.2	-27	Pass
NVNT	n20	5240	Ant1	-36.11	-27	Pass
NVNT	n40	5190	Ant0	-36.08	-27	Pass
NVNT	n40	5230	Ant0	-37.33	-27	Pass
NVNT	n40	5190	Ant1	-35.7	-27	Pass
NVNT	n40	5230	Ant1	-36.81	-27	Pass
NVNT	ac20	5180	Ant0	-36.65	-27	Pass
NVNT	ac20	5240	Ant0	-37.33	-27	Pass
NVNT	ac20	5180	Ant1	-36.59	-27	Pass
NVNT	ac20	5240	Ant1	-37.4	-27	Pass
NVNT	ac40	5190	Ant0	-34.28	-27	Pass
NVNT	ac40	5230	Ant0	-37.26	-27	Pass
NVNT	ac40	5190	Ant1	-35.14	-27	Pass
NVNT	ac40	5230	Ant1	-36.33	-27	Pass
NVNT	ac80	5210	Ant0	-34.20	-27	Pass
NVNT	ac80	5210	Ant0	-37.55	-27	Pass
NVNT	ac80	5210	Ant1	-36.14	-27	Pass
NVNT	ac80	5210	Ant1	-37.22	-27	Pass

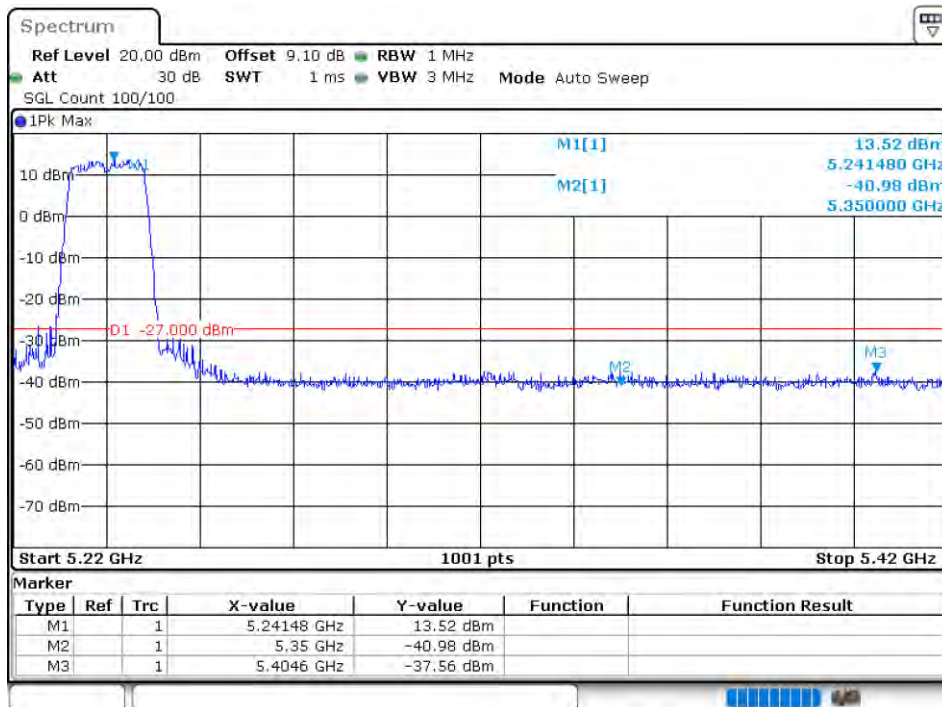
Note: This test has increased antenna gain .

Test Graphs

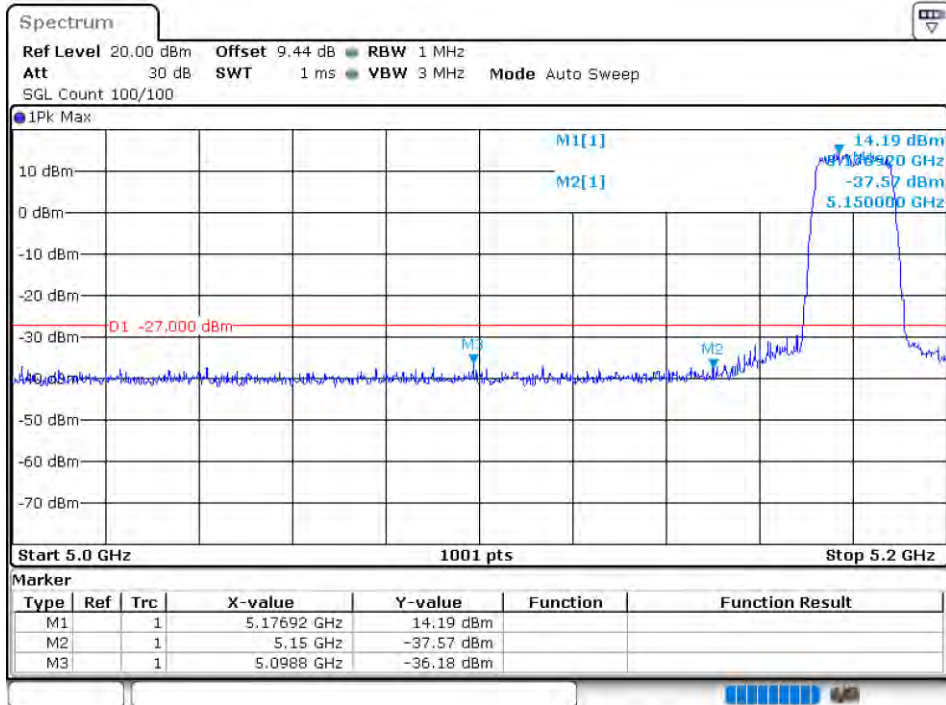
Band Edge NVNT a 5180MHz Low Ant0



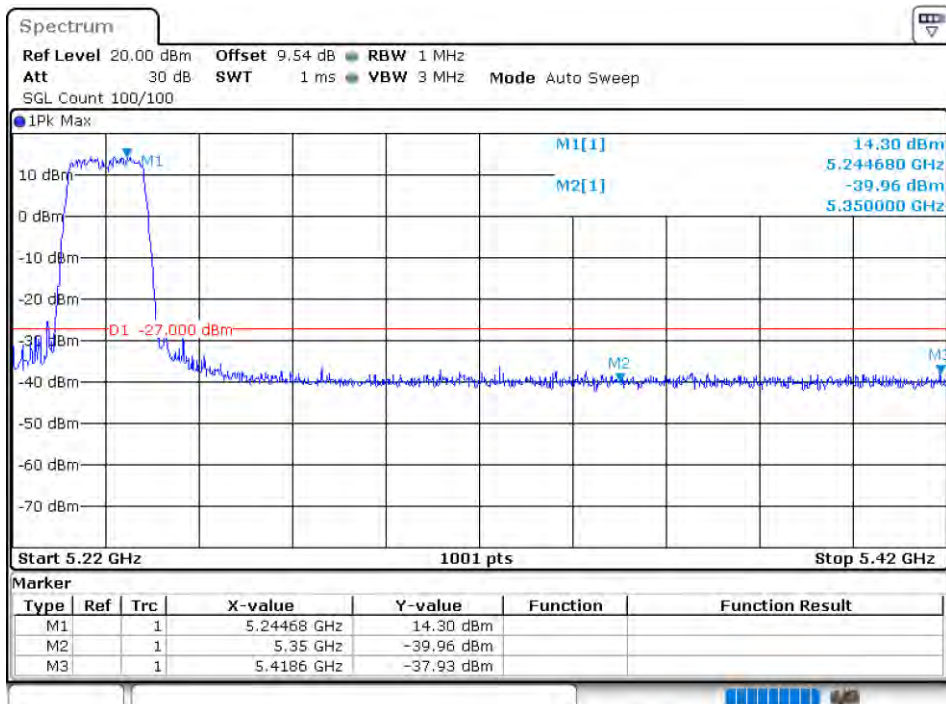
Band Edge NVNT a 5240MHz High Ant0



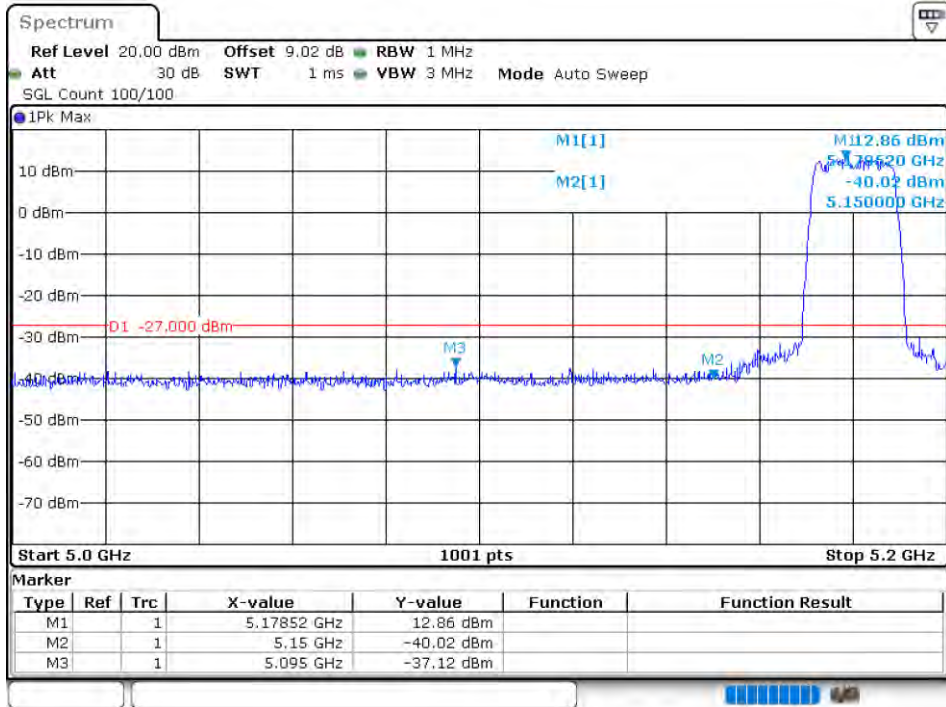
Band Edge NVNT a 5180MHz Low Ant1



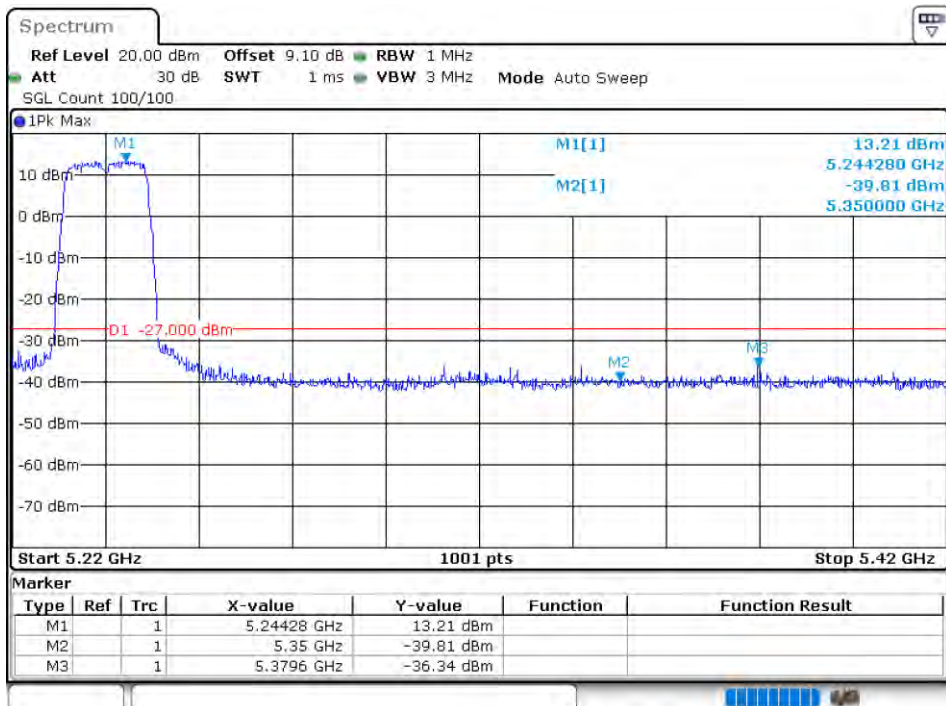
Band Edge NVNT a 5240MHz High Ant1



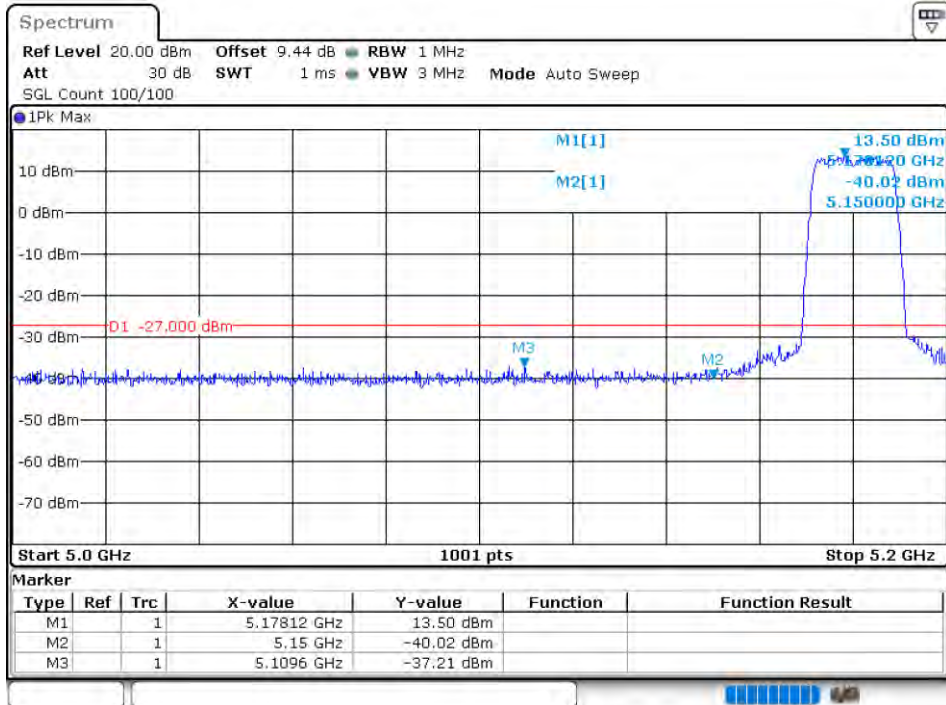
Band Edge NVNT n20 5180MHz Low Ant0



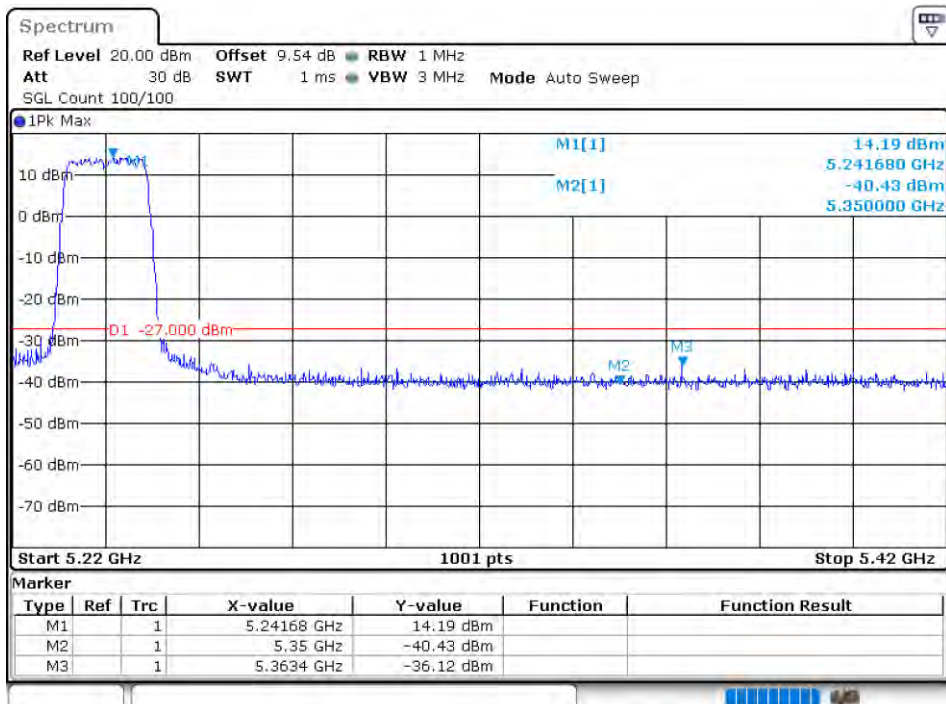
Band Edge NVNT n20 5240MHz High Ant0



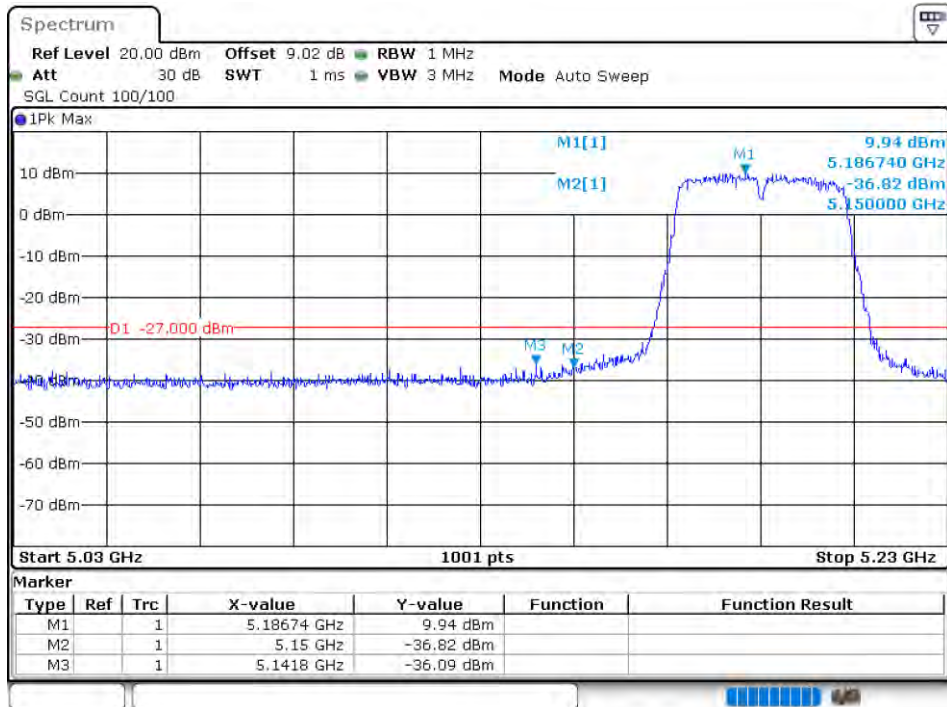
Band Edge NVNT n20 5180MHz Low Ant1



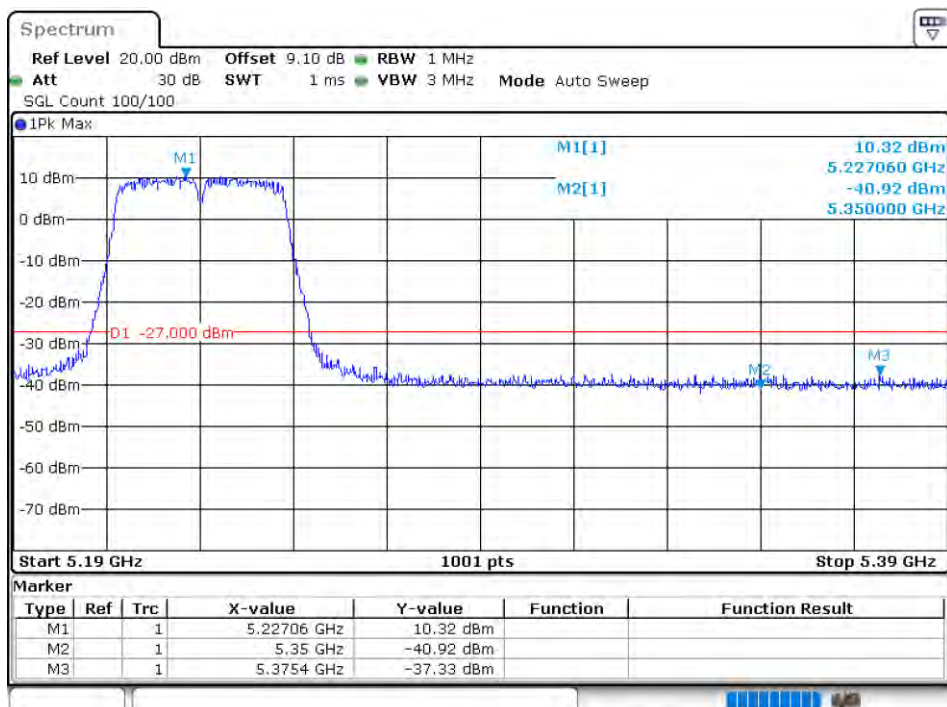
Band Edge NVNT n20 5240MHz High Ant1



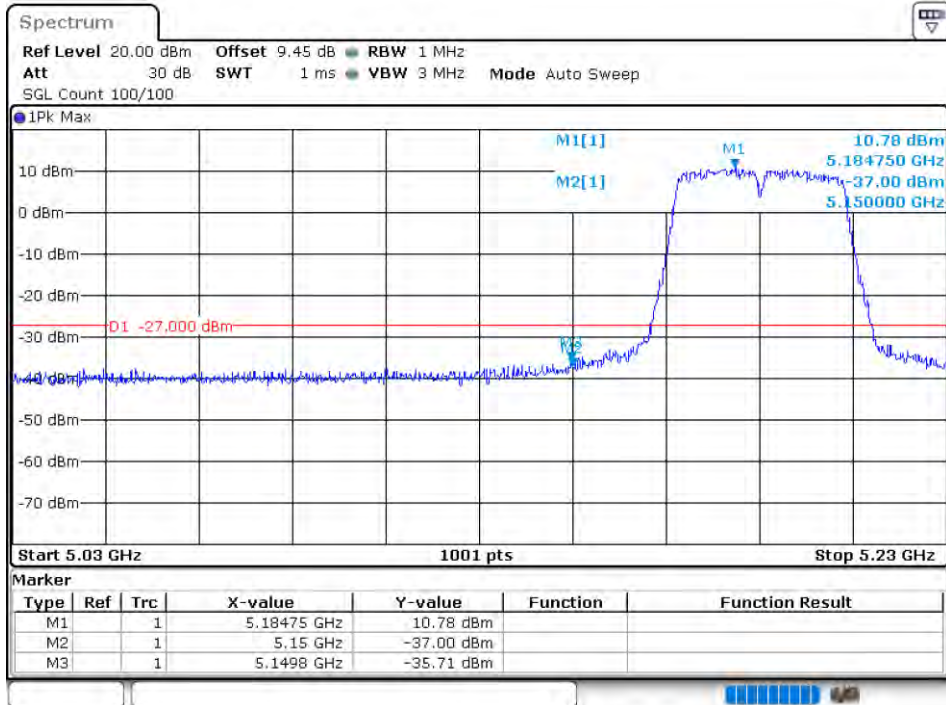
Band Edge NVNT n40 5190MHz Low Ant0



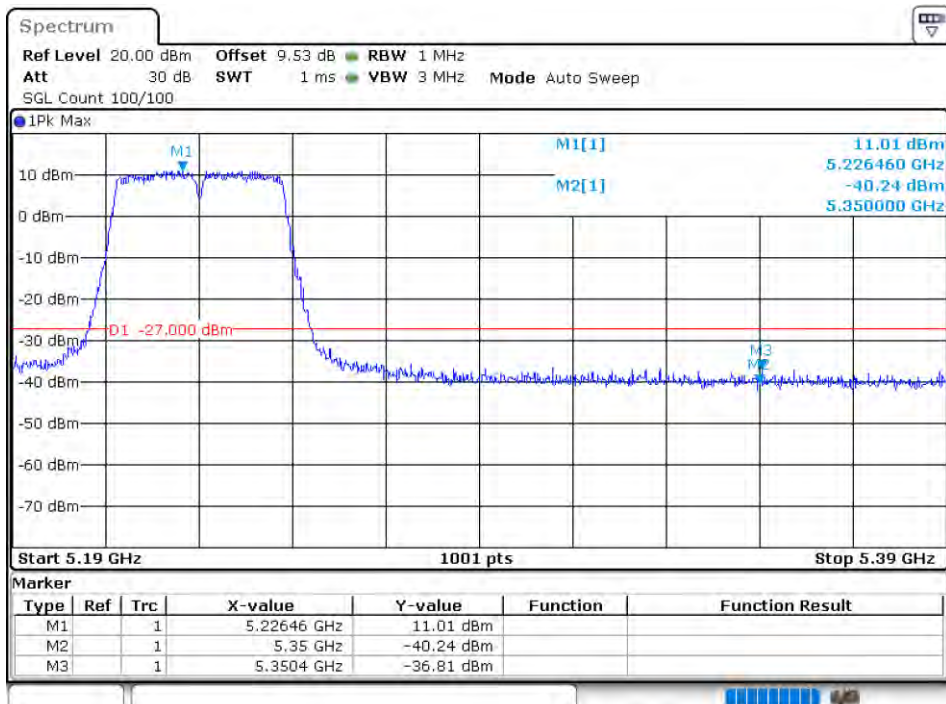
Band Edge NVNT n40 5230MHz High Ant0



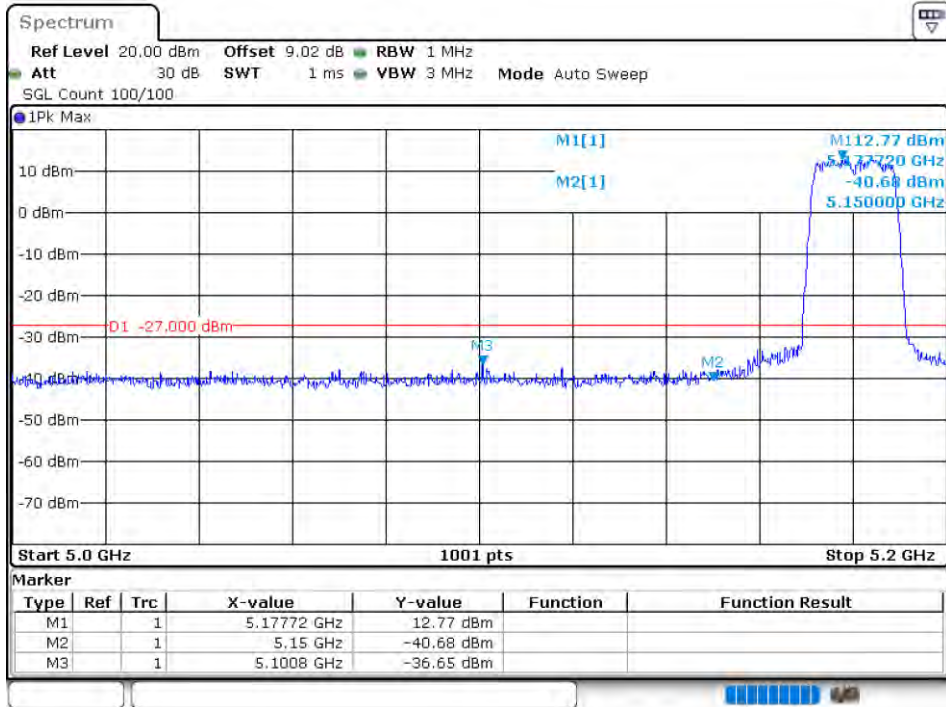
Band Edge NVNT n40 5190MHz Low Ant1



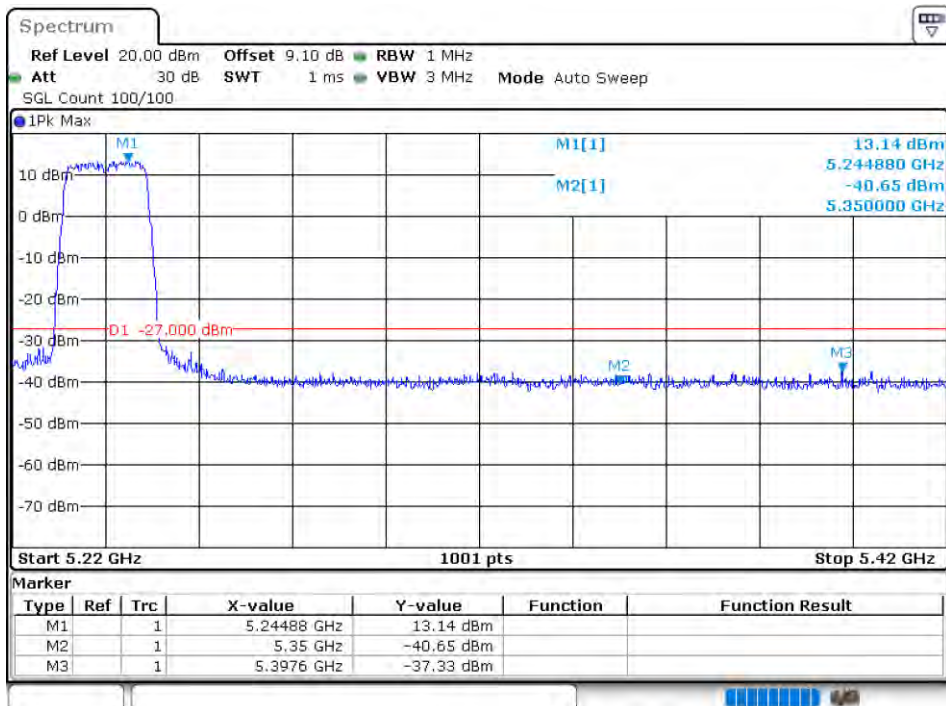
Band Edge NVNT n40 5230MHz High Ant1



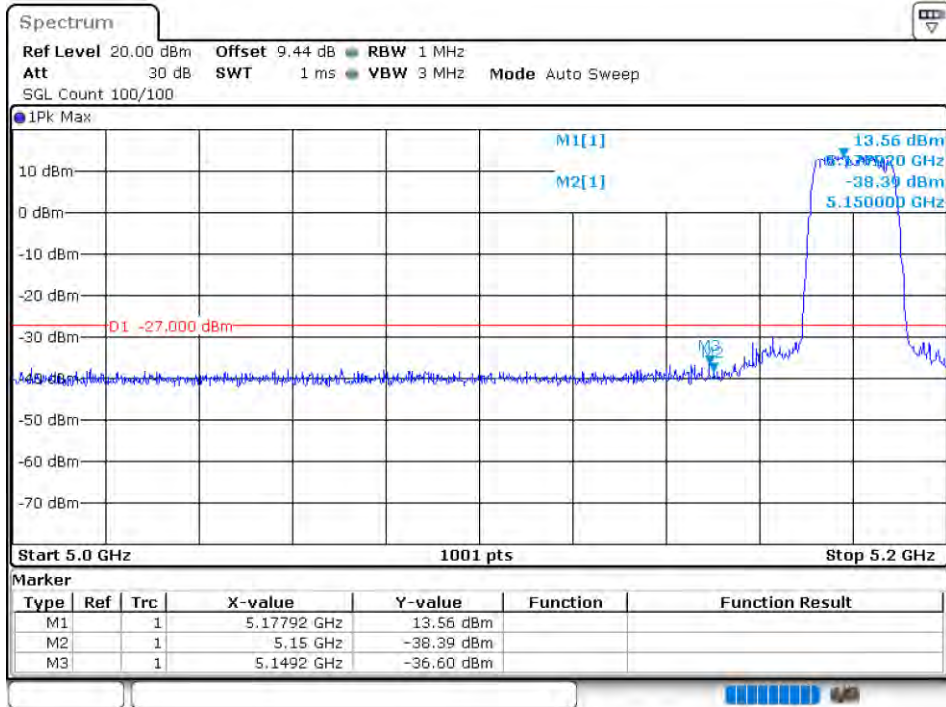
Band Edge NVNT ac20 5180MHz Low Ant0



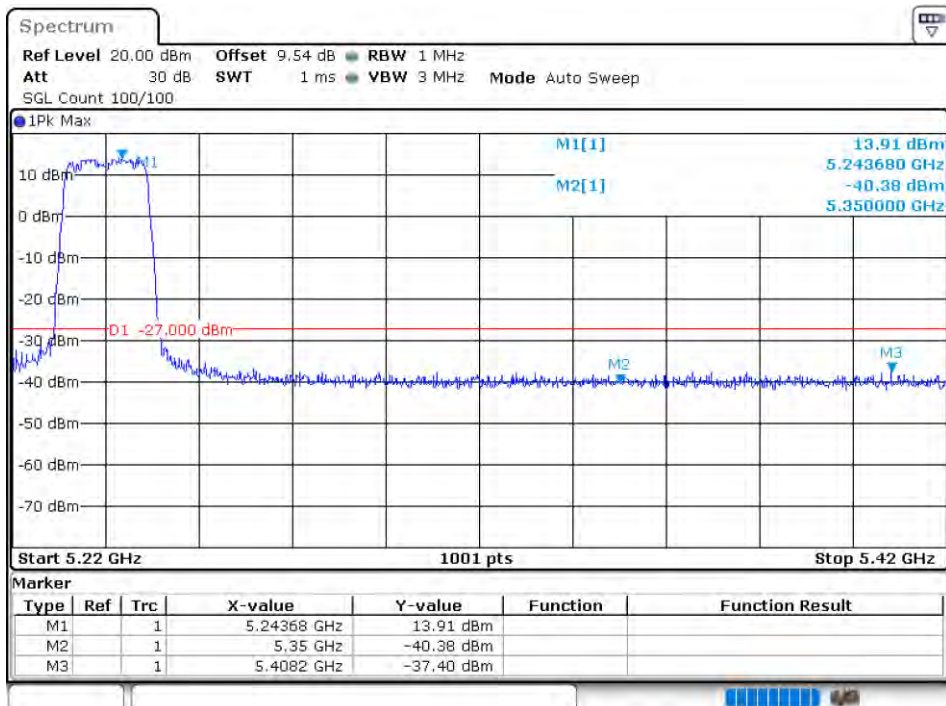
Band Edge NVNT ac20 5240MHz High Ant0



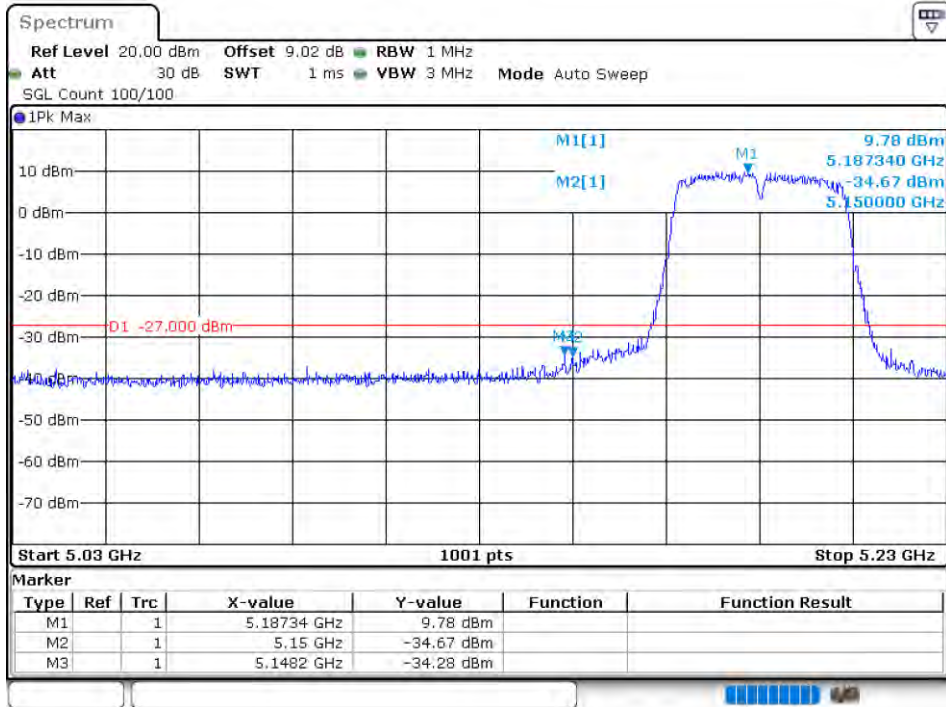
Band Edge NVNT ac20 5180MHz Low Ant1



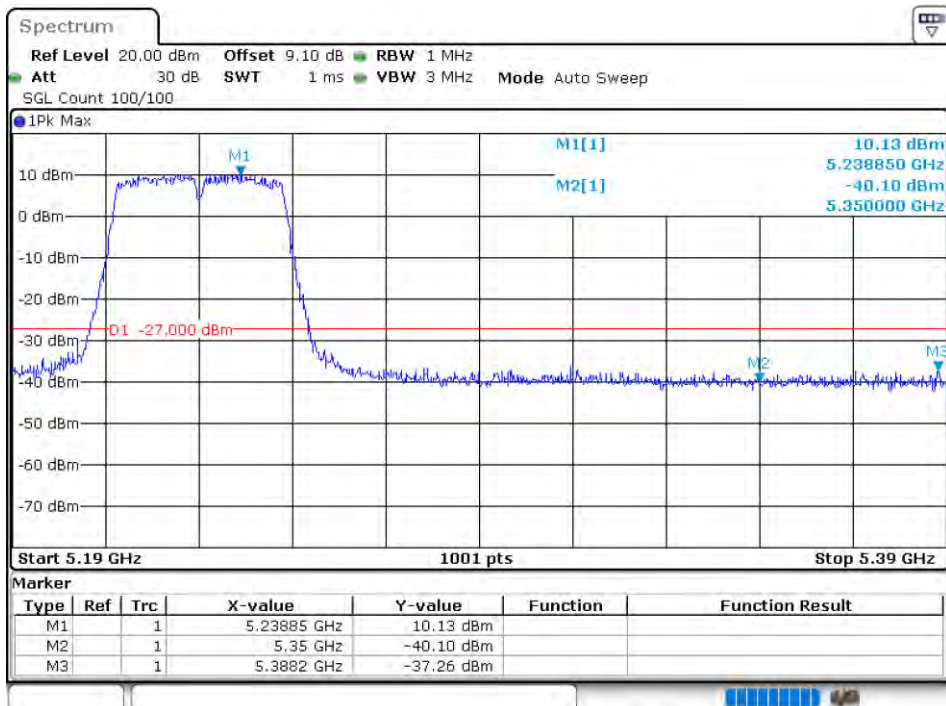
Band Edge NVNT ac20 5240MHz High Ant1



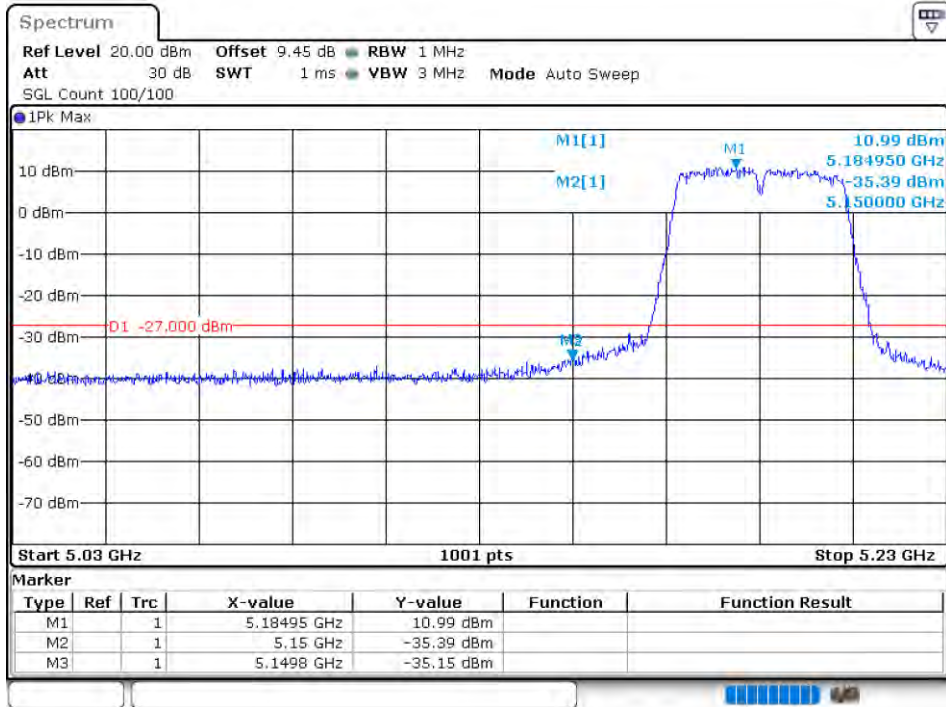
Band Edge NVNT ac40 5190MHz Low Ant0



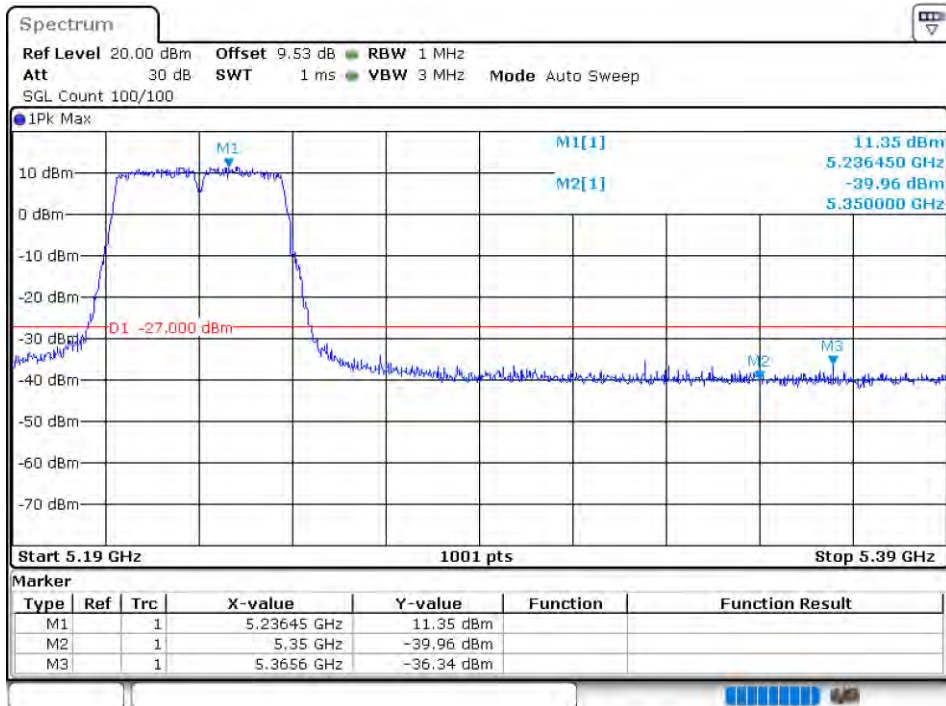
Band Edge NVNT ac40 5230MHz High Ant0



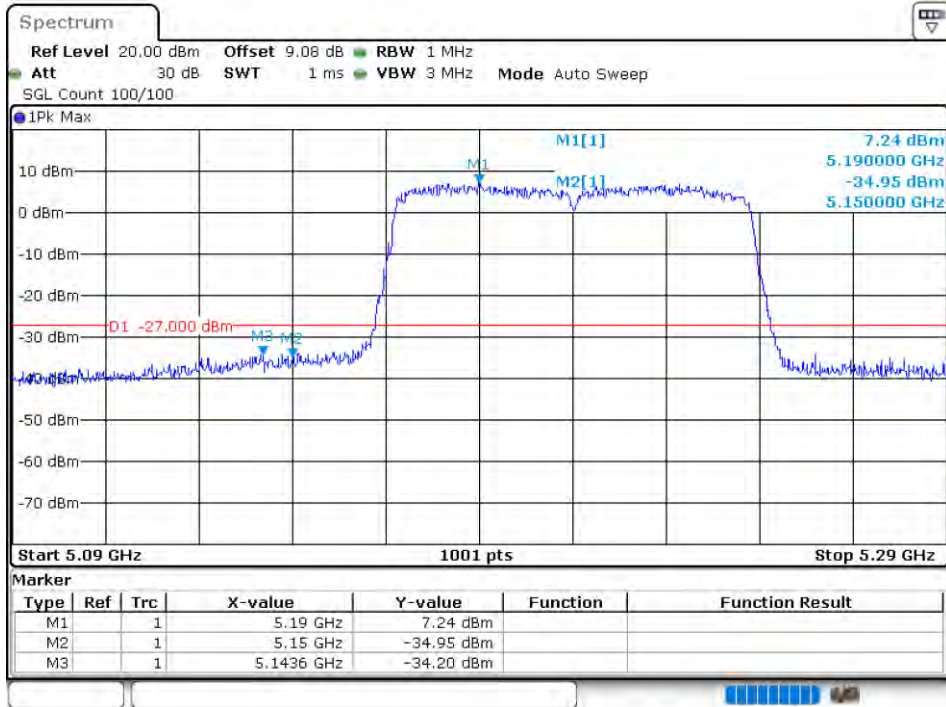
Band Edge NVNT ac40 5190MHz Low Ant1



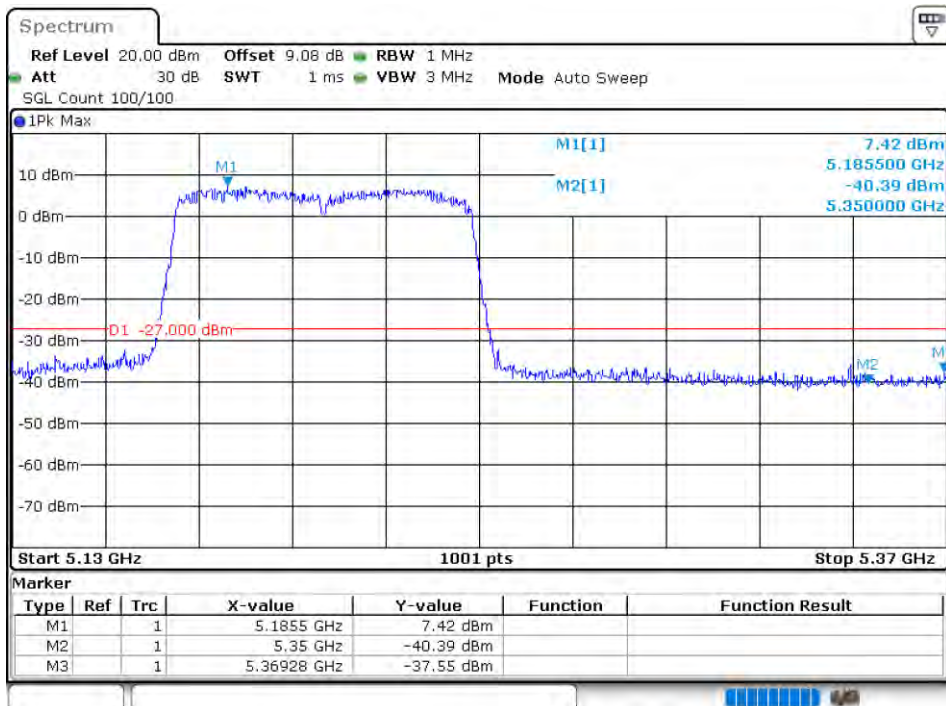
Band Edge NVNT ac40 5230MHz High Ant1



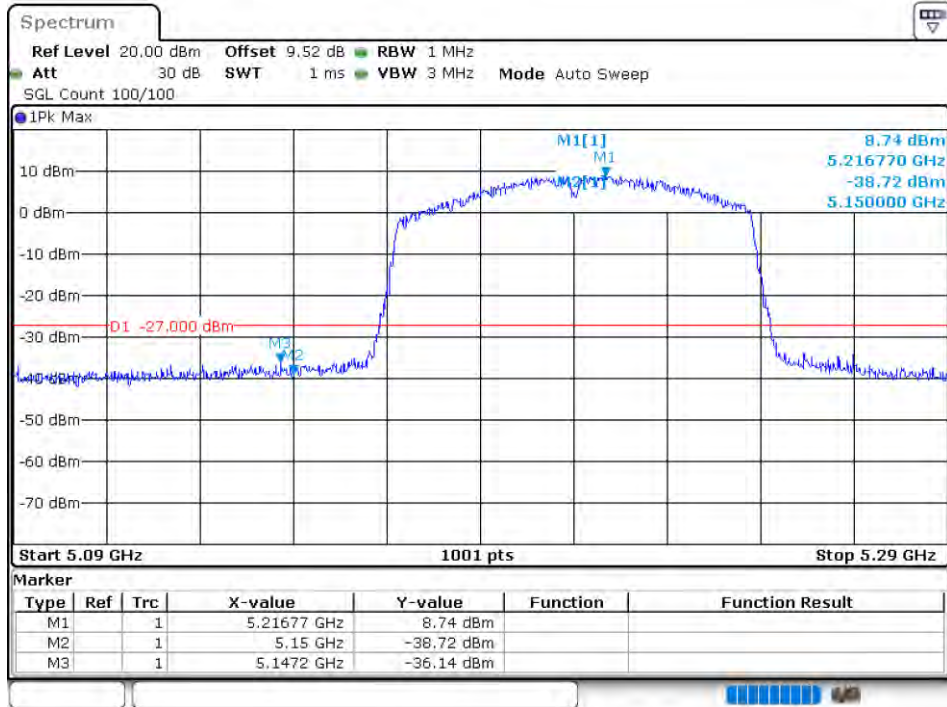
Band Edge NVNT ac80 5210MHz Low Ant0



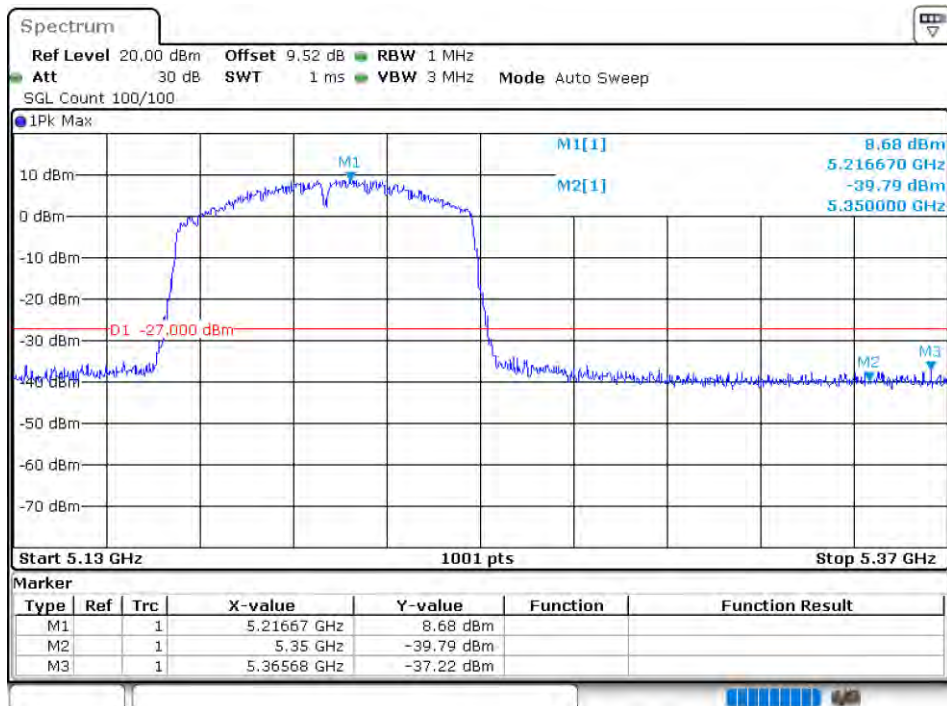
Band Edge NVNT ac80 5210MHz High Ant0



Band Edge NVNT ac80 5210MHz Low Ant1



Band Edge NVNT ac80 5210MHz High Ant1



5.2G WIFI-MIMO

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant0	8.44	--	Pass
NVNT	ac20	5180	Ant1	8.29	--	Pass
NVNT	ac20	5180	Sum	11.38	21.73	Pass
NVNT	ac20	5200	Ant0	7.95	--	Pass
NVNT	ac20	5200	Ant1	8.06	--	Pass
NVNT	ac20	5200	Sum	11.02	21.73	Pass
NVNT	ac20	5240	Ant0	8.14	--	Pass
NVNT	ac20	5240	Ant1	7.86	--	Pass
NVNT	ac20	5240	Sum	11.01	21.73	Pass
NVNT	ac40	5190	Ant0	10.53	--	Pass
NVNT	ac40	5190	Ant1	10.24	--	Pass
NVNT	ac40	5190	Sum	13.40	21.73	Pass
NVNT	ac40	5230	Ant0	10.05	--	Pass
NVNT	ac40	5230	Ant1	10.25	--	Pass
NVNT	ac40	5230	Sum	13.16	21.73	Pass
NVNT	ac80	5210	Ant0	9.57	--	Pass
NVNT	ac80	5210	Ant1	9.8	--	Pass
NVNT	ac80	5210	Sum	12.70	21.73	Pass
NVNT	n20	5180	Ant0	8.85	--	Pass
NVNT	n20	5180	Ant1	8.46	--	Pass
NVNT	n20	5180	Sum	11.67	21.73	Pass
NVNT	n20	5200	Ant0	9.02	--	Pass
NVNT	n20	5200	Ant1	8.83	--	Pass
NVNT	n20	5200	Sum	11.94	21.73	Pass
NVNT	n20	5240	Ant0	9.14	--	Pass
NVNT	n20	5240	Ant1	8.91	--	Pass
NVNT	n20	5240	Sum	12.04	21.73	Pass
NVNT	n40	5190	Ant0	10.59	--	Pass
NVNT	n40	5190	Ant1	10.01	--	Pass
NVNT	n40	5190	Sum	13.32	21.73	Pass
NVNT	n40	5230	Ant0	9.96	--	Pass
NVNT	n40	5230	Ant1	10.2	--	Pass
NVNT	n40	5230	Sum	13.09	21.73	Pass

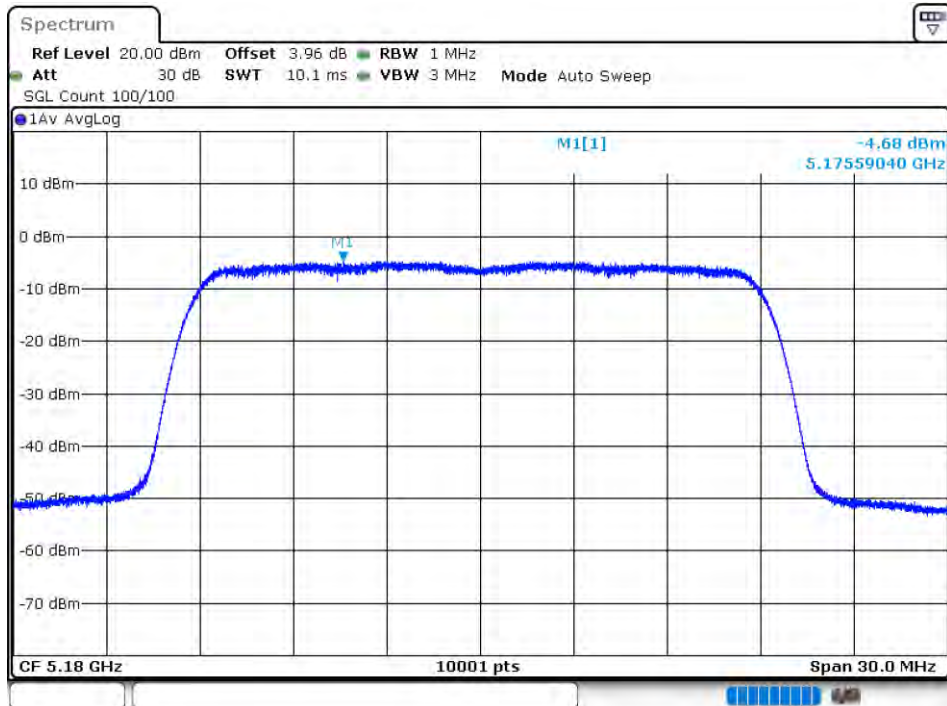
Note: The average power value already includes the duty cycle factor

Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant0	-4.68	0	-4.68	--	Pass
NVNT	ac20	5180	Ant1	-5.32	0	-5.32	--	Pass
NVNT	ac20	5180	Sum	--	--	-1.98	8.73	Pass
NVNT	ac20	5200	Ant0	-4.68	0	-4.68	--	Pass
NVNT	ac20	5200	Ant1	-4.82	0	-4.82	--	Pass
NVNT	ac20	5200	Sum	--	--	-1.74	8.73	Pass
NVNT	ac20	5240	Ant0	-4.49	0	-4.49	--	Pass
NVNT	ac20	5240	Ant1	-5.02	0	-5.02	--	Pass
NVNT	ac20	5240	Sum	--	--	-1.74	8.73	Pass
NVNT	ac40	5190	Ant0	-3.74	0	-3.74	--	Pass
NVNT	ac40	5190	Ant1	-5.28	0	-5.28	--	Pass
NVNT	ac40	5190	Sum	--	--	-1.43	8.73	Pass
NVNT	ac40	5230	Ant0	-4.61	0	-4.61	--	Pass
NVNT	ac40	5230	Ant1	-5.41	0	-5.41	--	Pass
NVNT	ac40	5230	Sum	--	--	-1.98	8.73	Pass
NVNT	ac80	5210	Ant0	-6.69	0	-6.69	--	Pass
NVNT	ac80	5210	Ant1	-8.9	0	-8.9	--	Pass
NVNT	ac80	5210	Sum	--	--	-4.65	8.73	Pass
NVNT	n20	5180	Ant0	-4.83	0	-4.83	--	Pass
NVNT	n20	5180	Ant1	-5.28	0	-5.28	--	Pass
NVNT	n20	5180	Sum	--	--	-2.04	8.73	Pass
NVNT	n20	5200	Ant0	-4.7	0	-4.7	--	Pass
NVNT	n20	5200	Ant1	-4.72	0	-4.72	--	Pass
NVNT	n20	5200	Sum	--	--	-1.7	8.73	Pass
NVNT	n20	5240	Ant0	-4.4	0	-4.4	--	Pass
NVNT	n20	5240	Ant1	-4.82	0	-4.82	--	Pass
NVNT	n20	5240	Sum	--	--	-1.59	8.73	Pass
NVNT	n40	5190	Ant0	-3.82	0	-3.82	--	Pass
NVNT	n40	5190	Ant1	-5.82	0	-5.82	--	Pass
NVNT	n40	5190	Sum	--	--	-1.7	8.73	Pass
NVNT	n40	5230	Ant0	-5.09	0	-5.09	--	Pass
NVNT	n40	5230	Ant1	-5.97	0	-5.97	--	Pass
NVNT	n40	5230	Sum	--	--	-2.5	8.73	Pass

Test Graphs

PSD NVNT ac20 5180MHz Ant0



PSD NVNT ac20 5180MHz Ant1

