

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

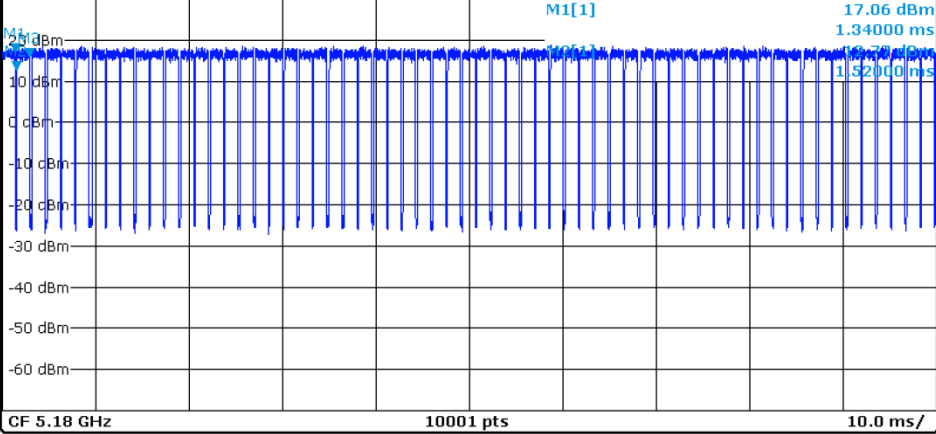
Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 3.96 dB RBW 10 MHz
 Att 40 dB SWT 100 ms VBW 10 MHz
 SGL

1Pk Clrw



Marker

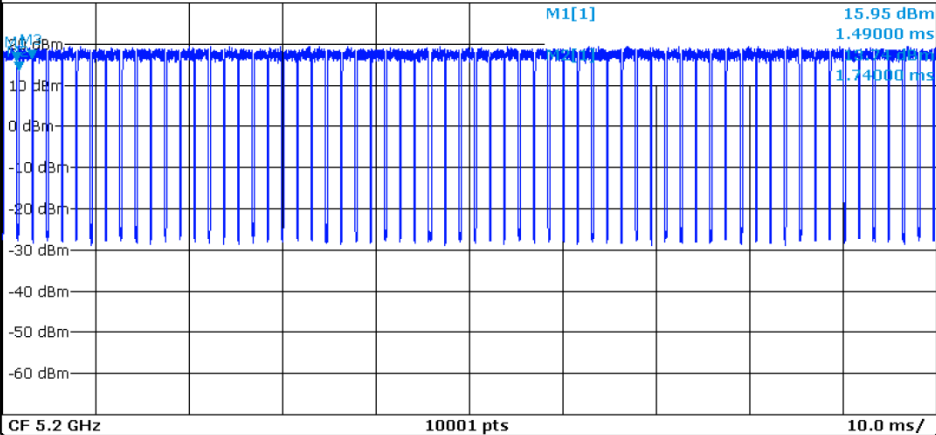
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.34 ms	17.06 dBm		
M2	1		1.52 ms	12.77 dBm		
M3	1		2.91 ms	15.80 dBm		

Duty Cycle NVNT a 5200MHz Ant1

Spectrum

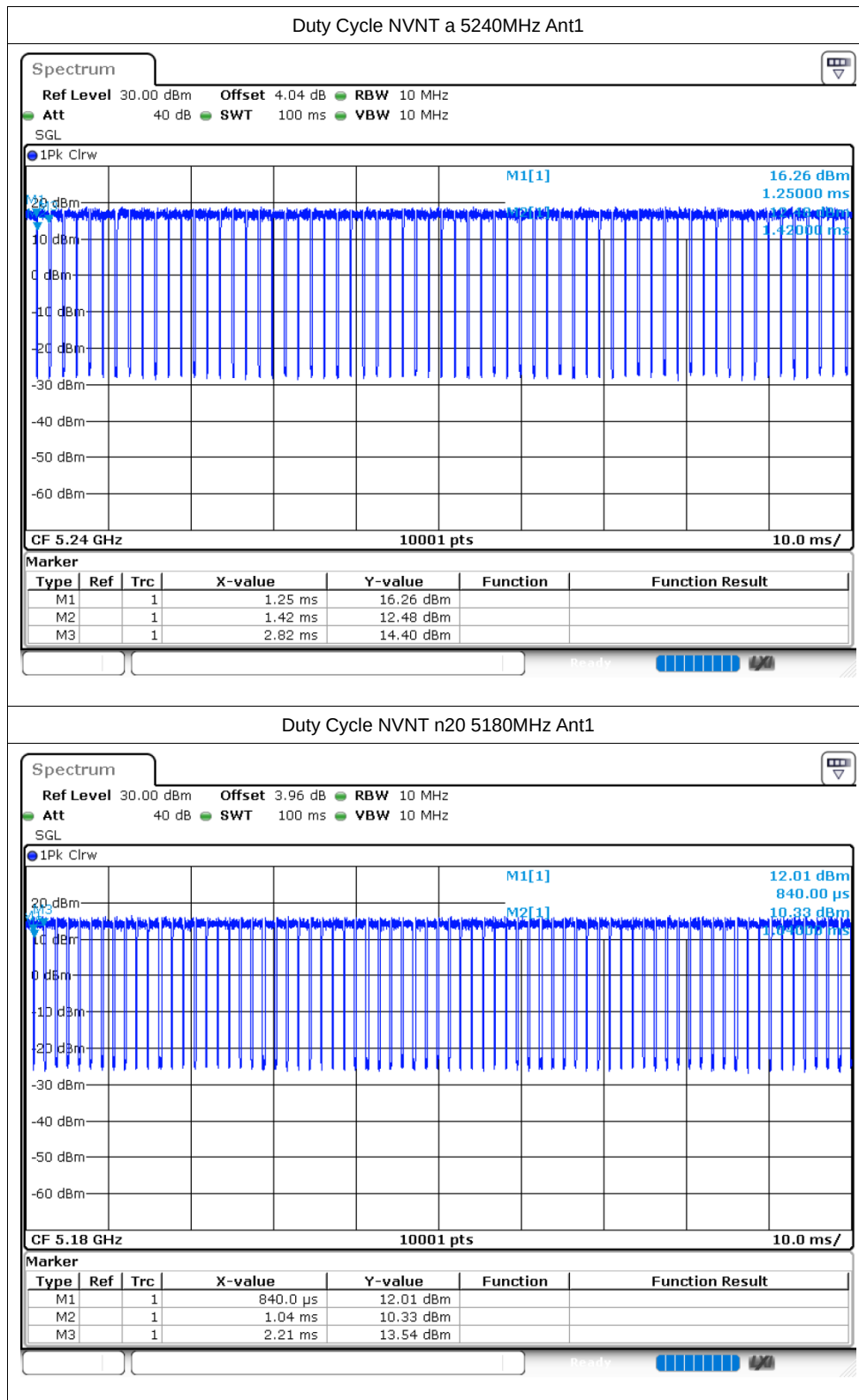
Ref Level 30.00 dBm Offset 4.02 dB RBW 10 MHz
 Att 40 dB SWT 100 ms VBW 10 MHz
 SGL

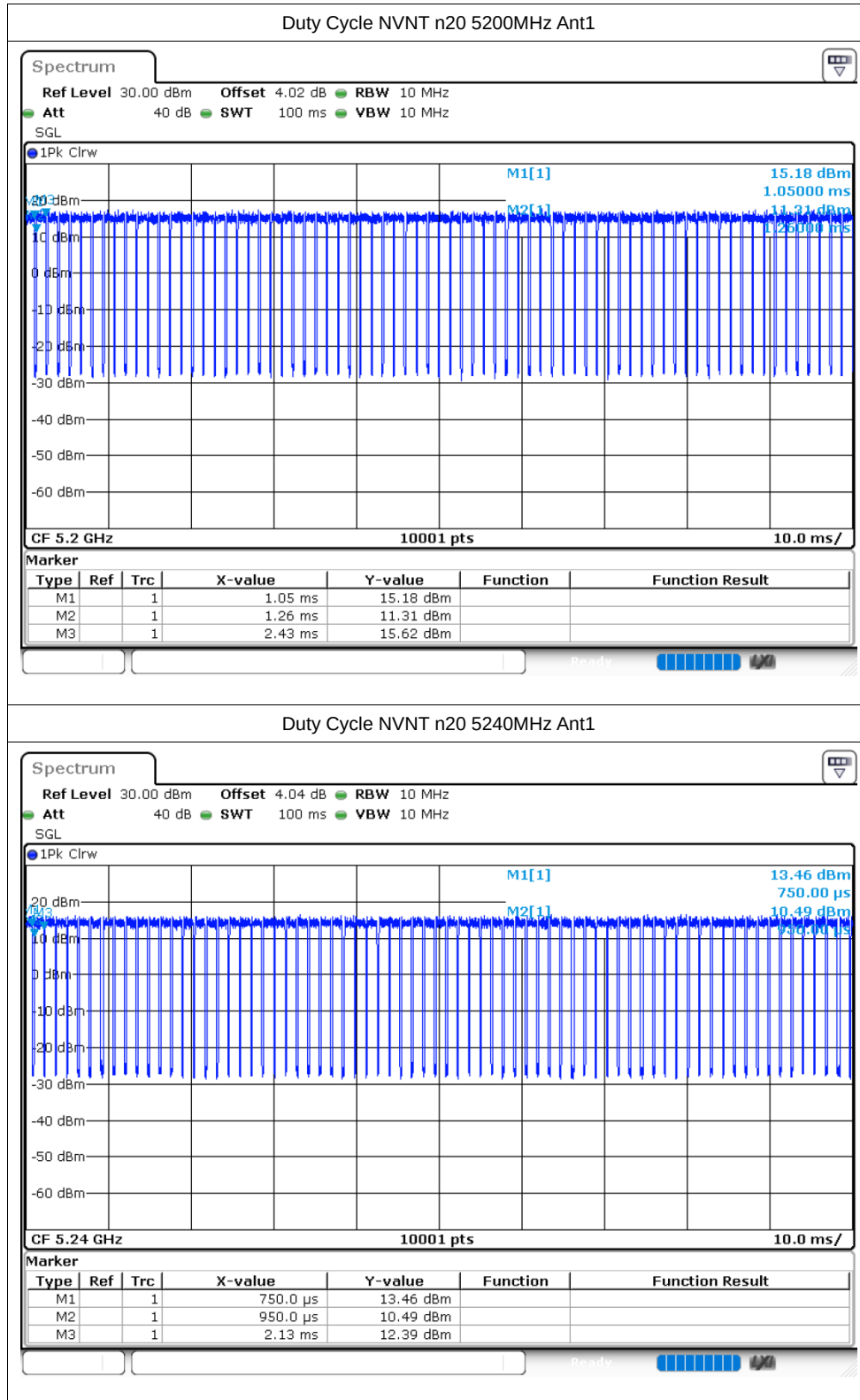
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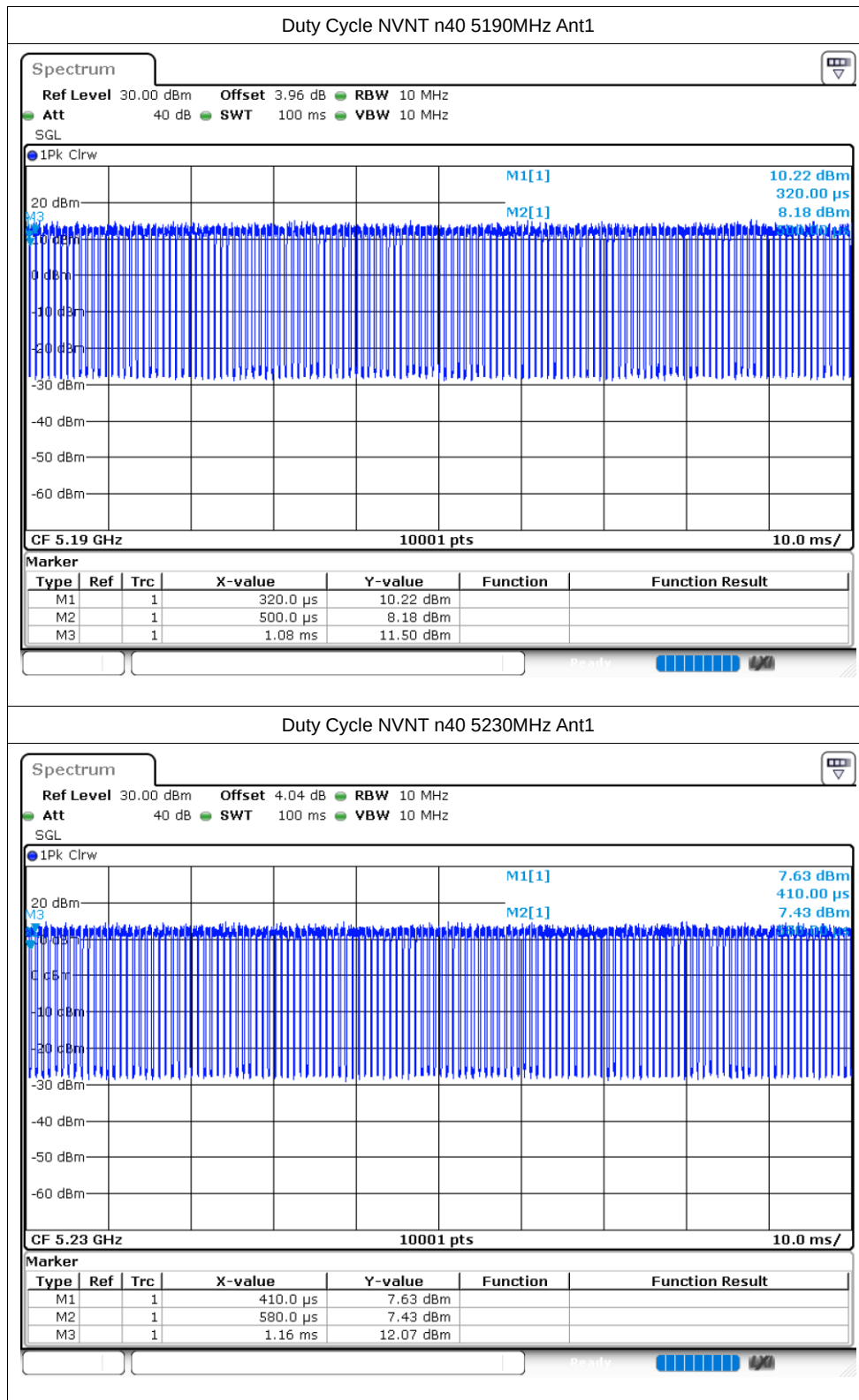


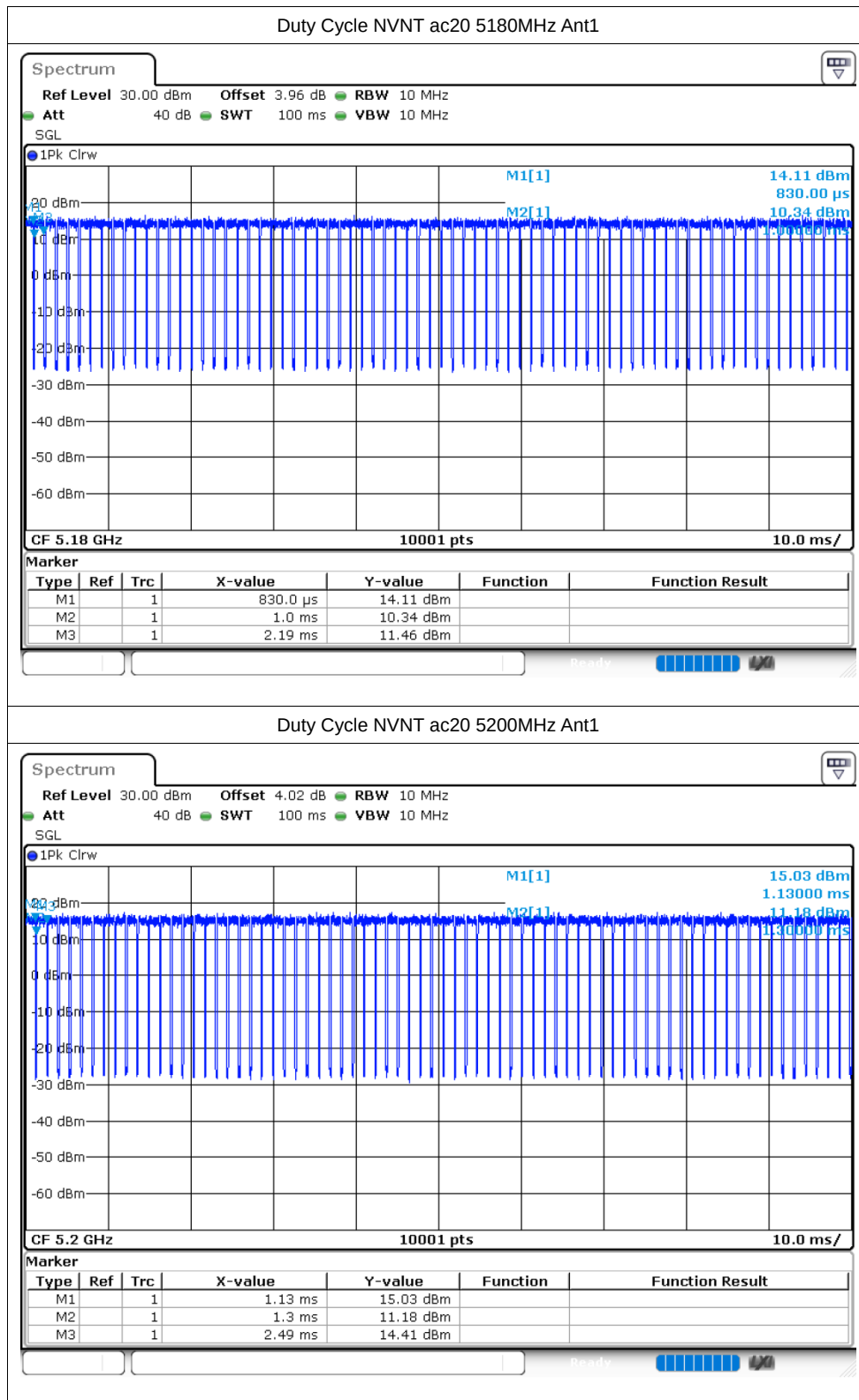
Marker

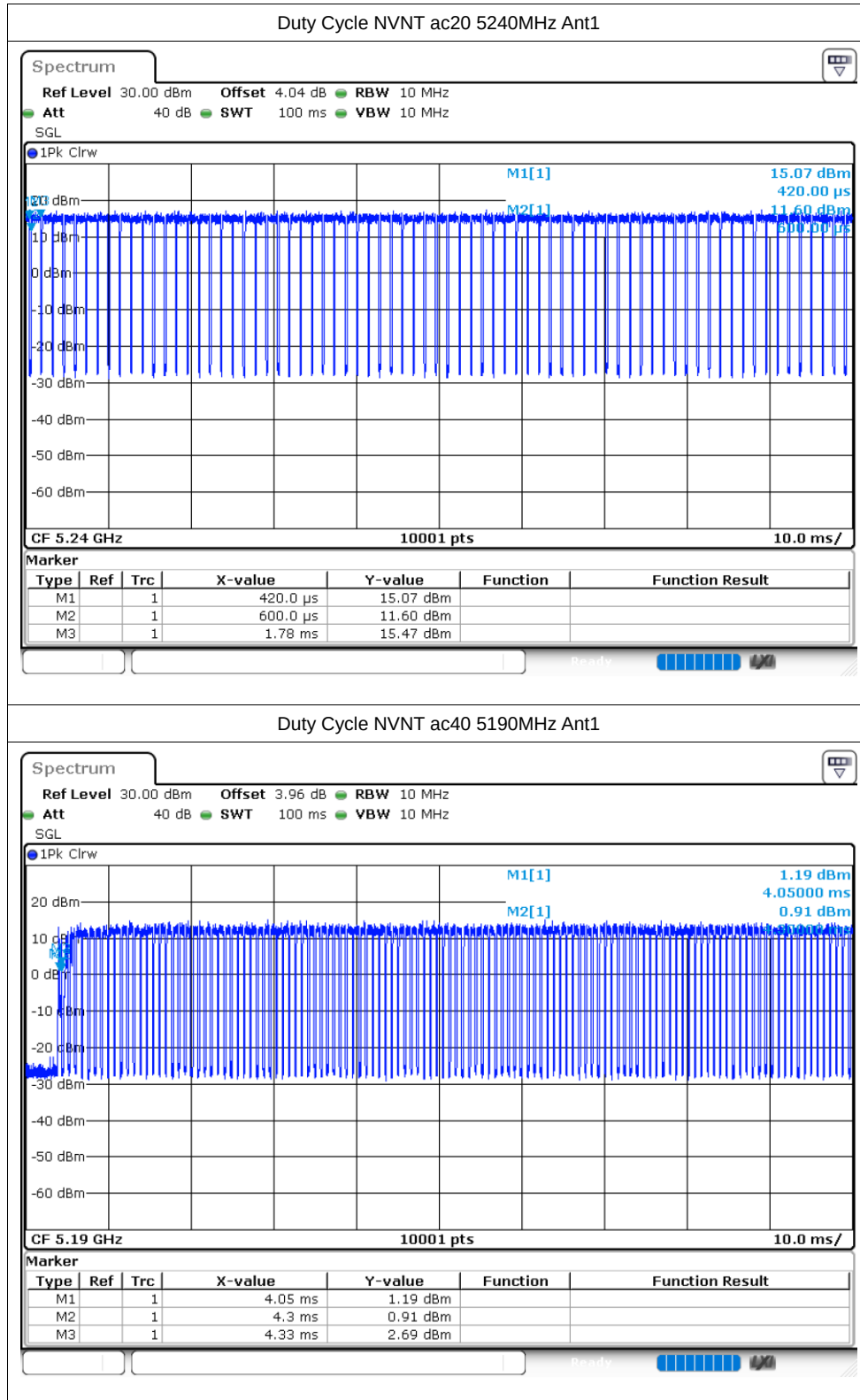
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.49 ms	15.95 dBm		
M2	1		1.74 ms	13.74 dBm		
M3	1		3.13 ms	16.37 dBm		

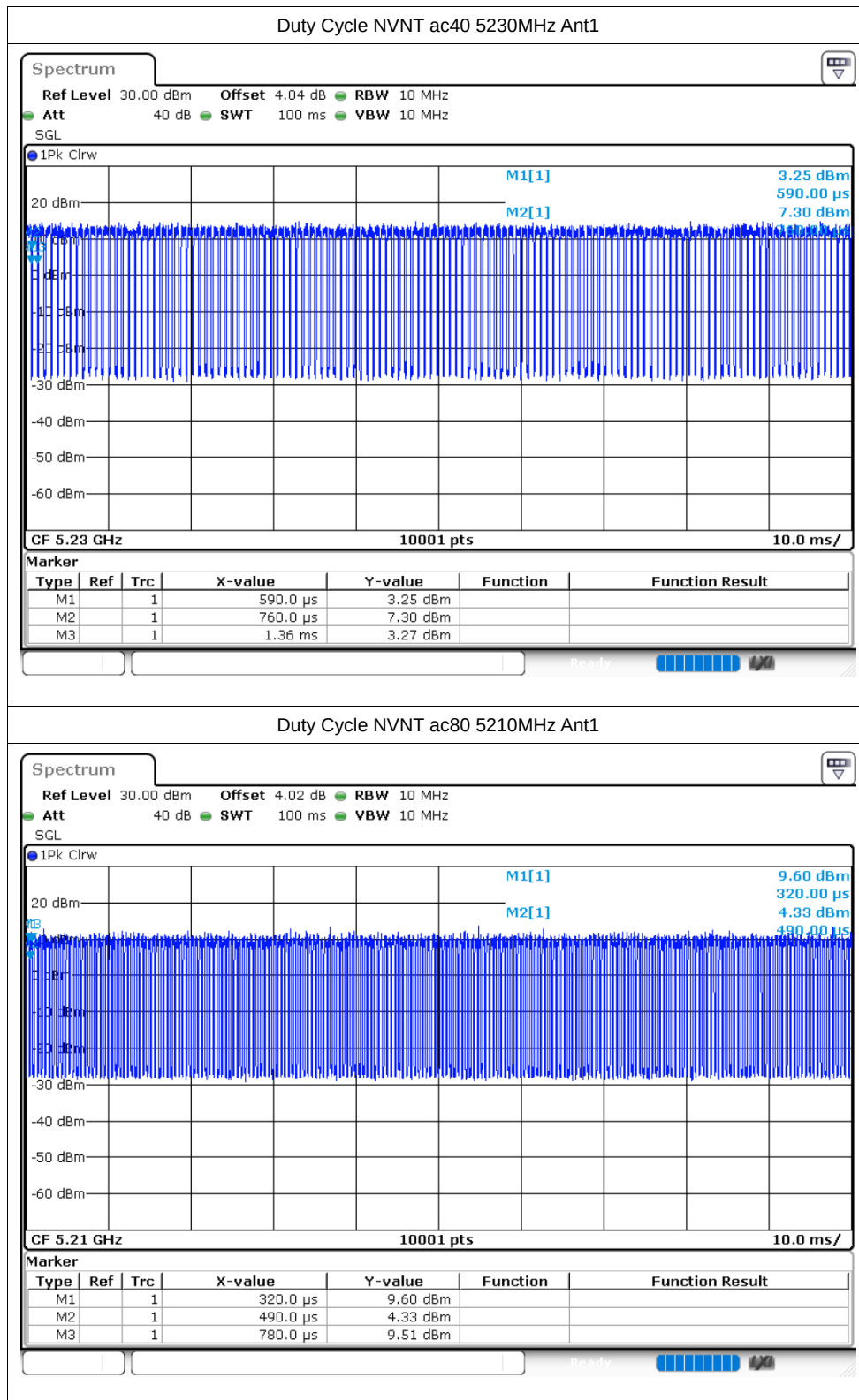












Maximum Conducted Output Power

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

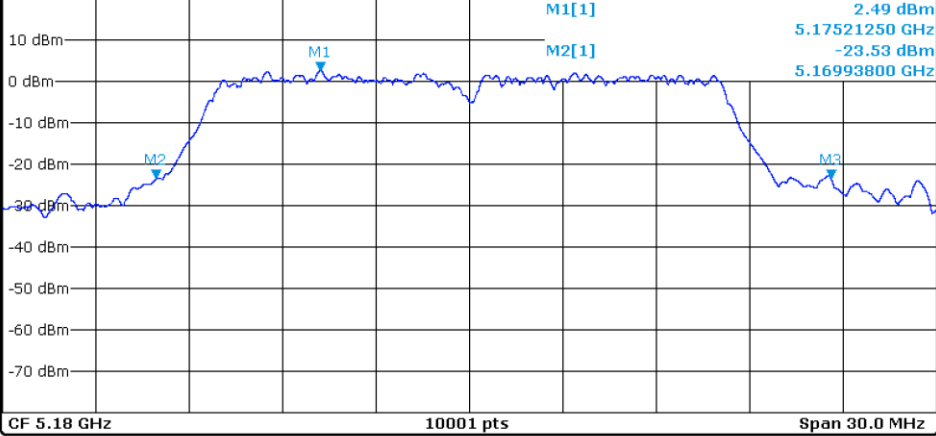
Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 3.96 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max

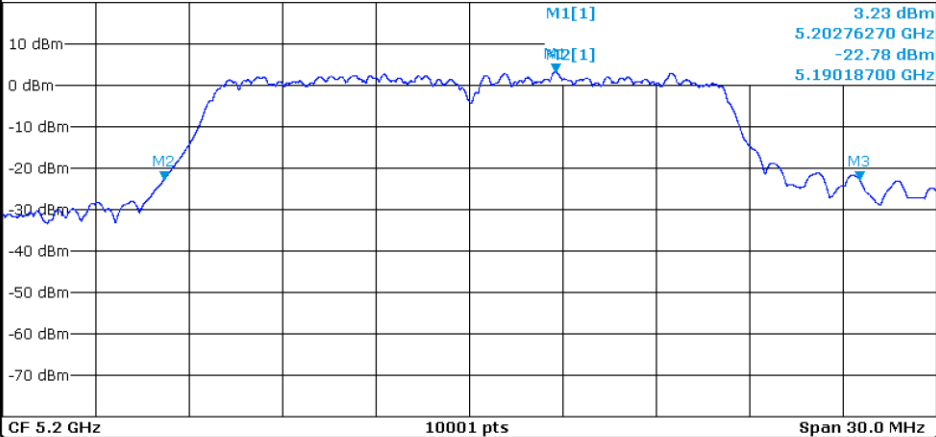


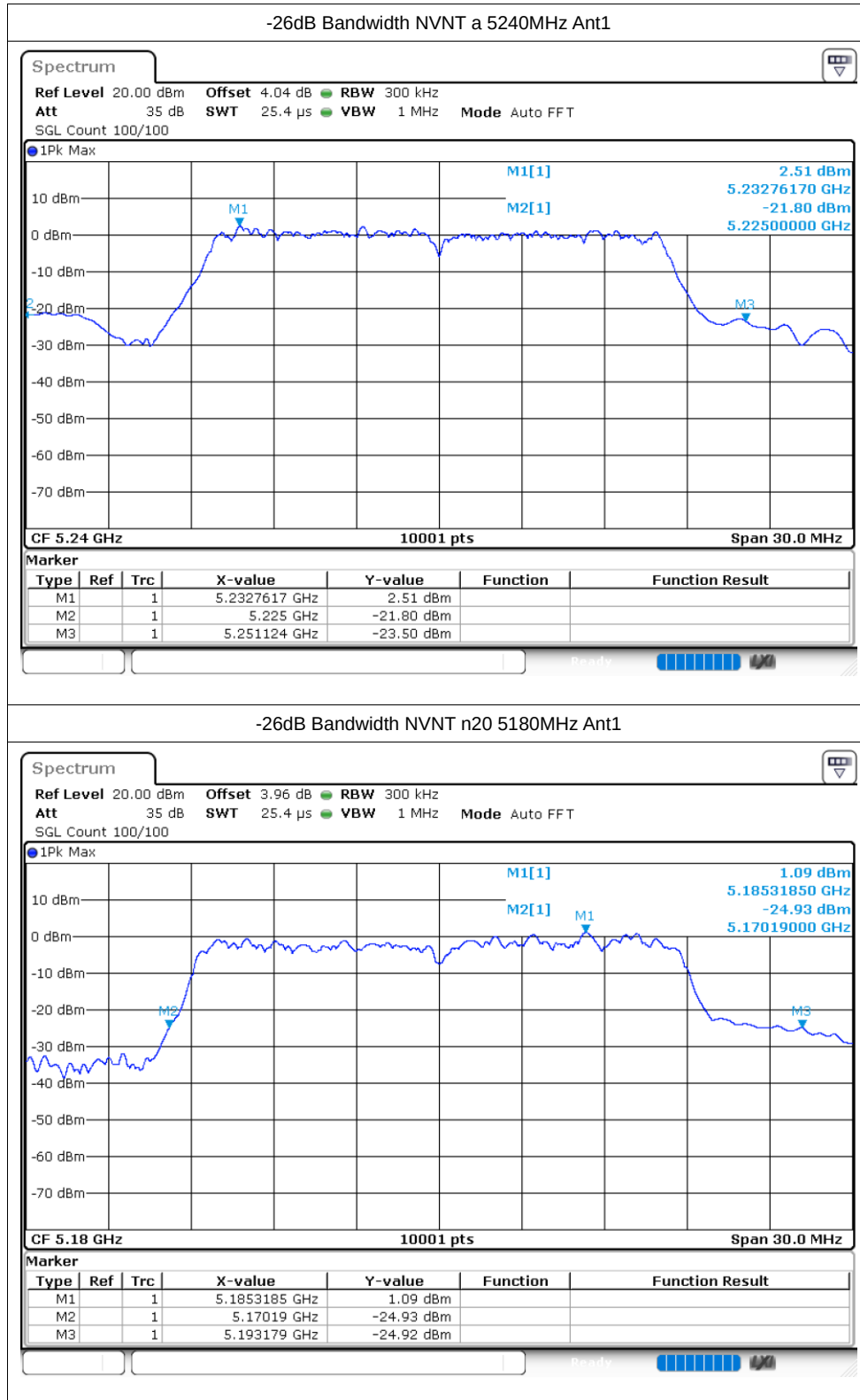
-26dB Bandwidth NVNT a 5200MHz Ant1

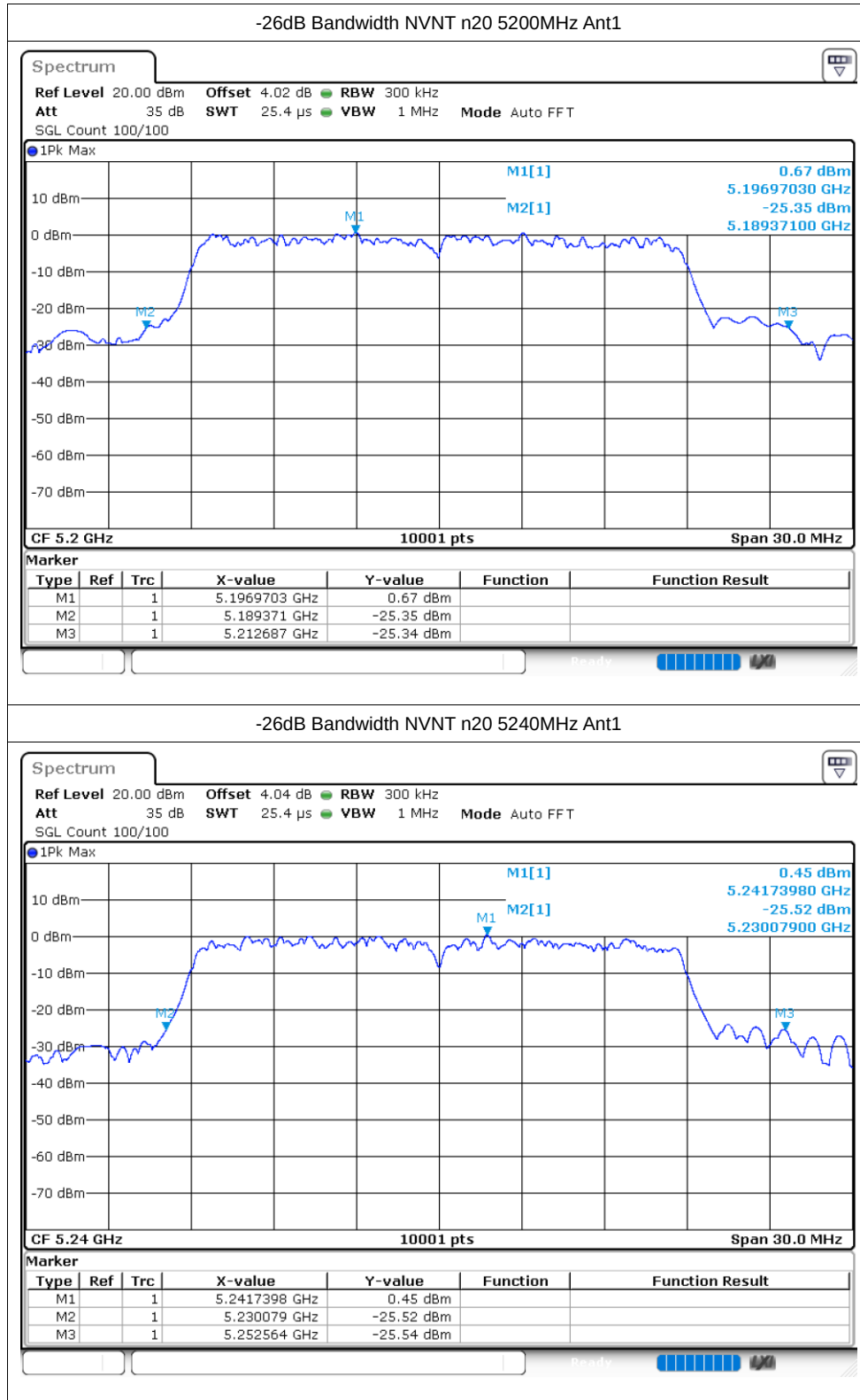
Spectrum

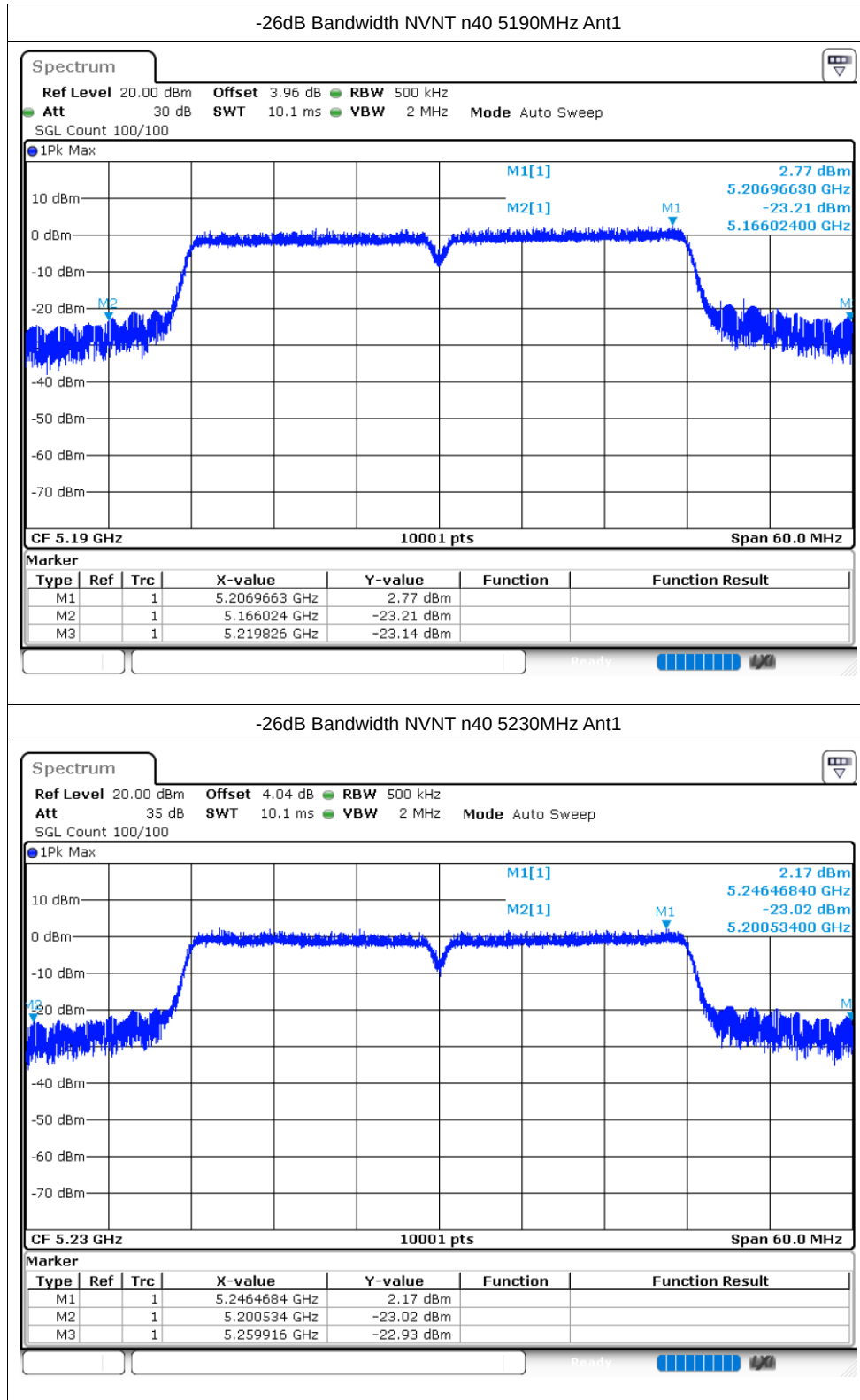
Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

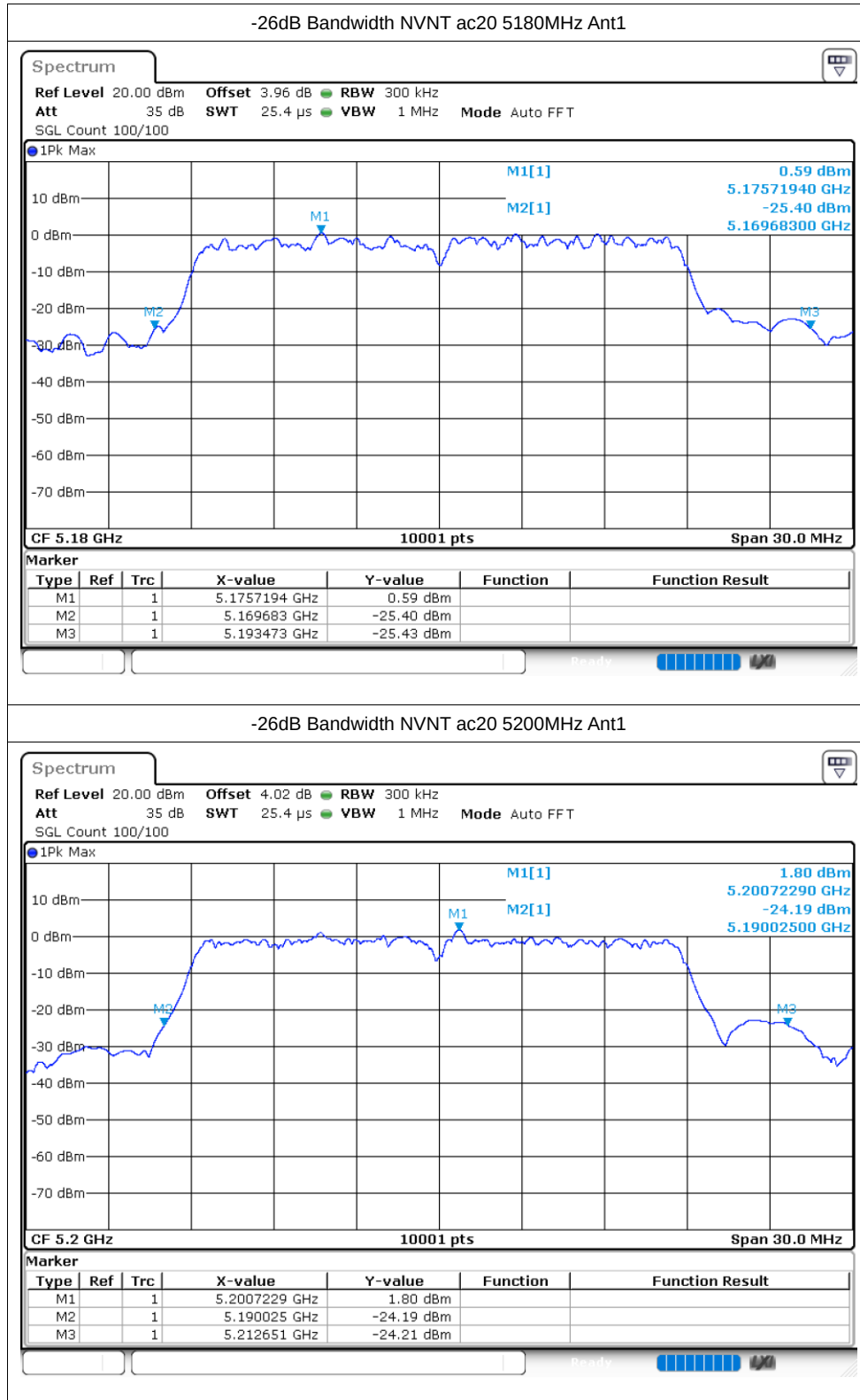
1Pk Max

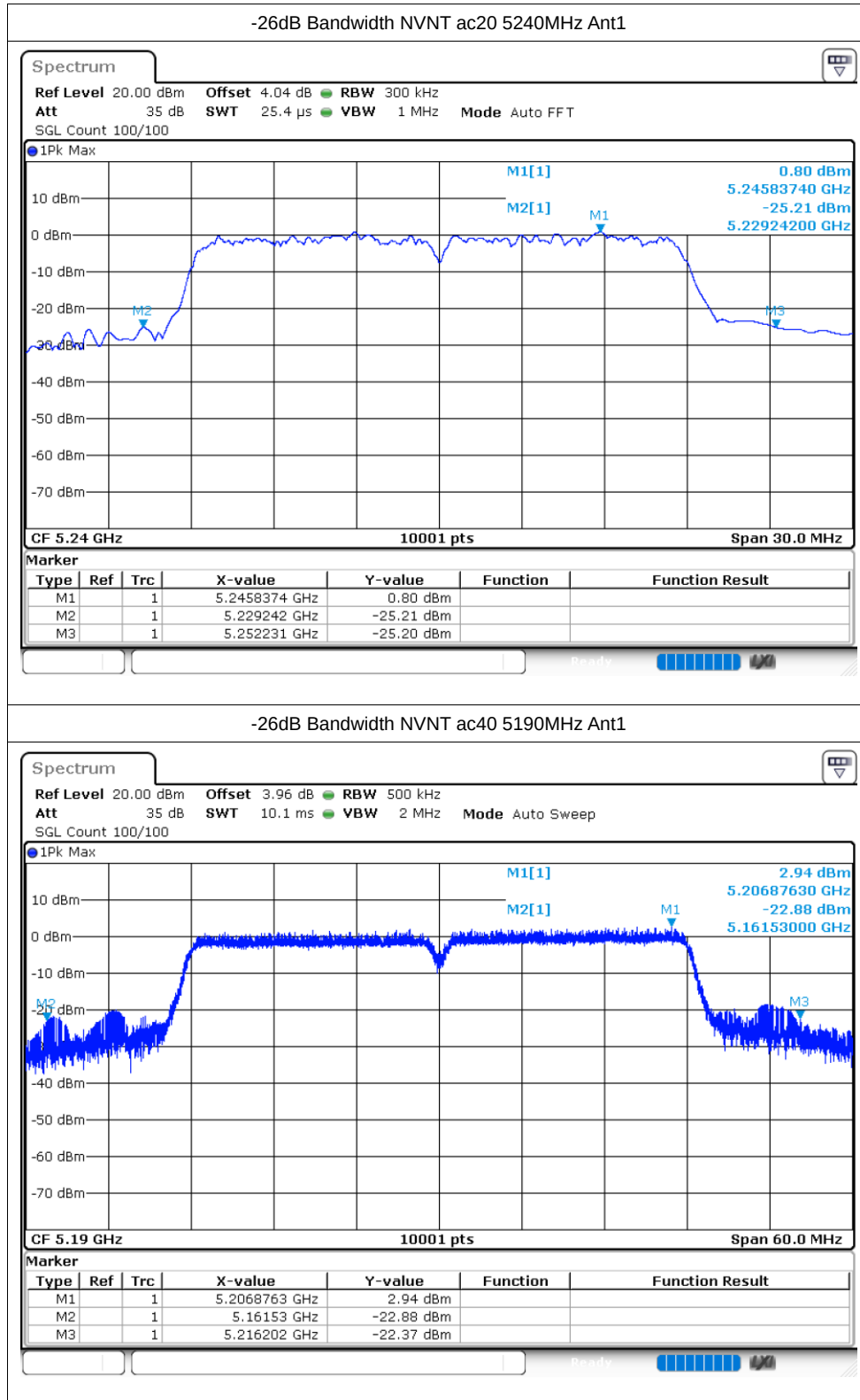


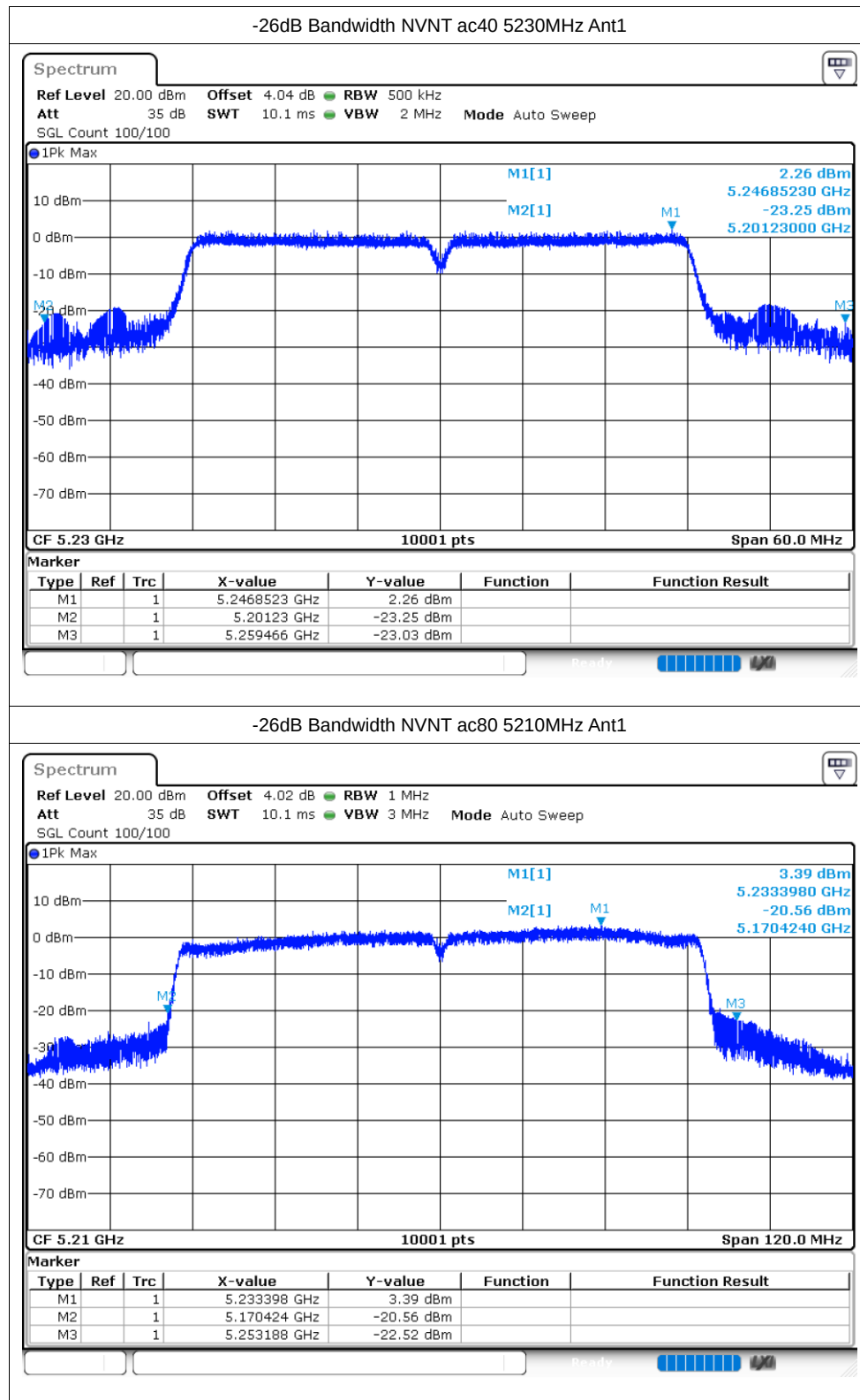










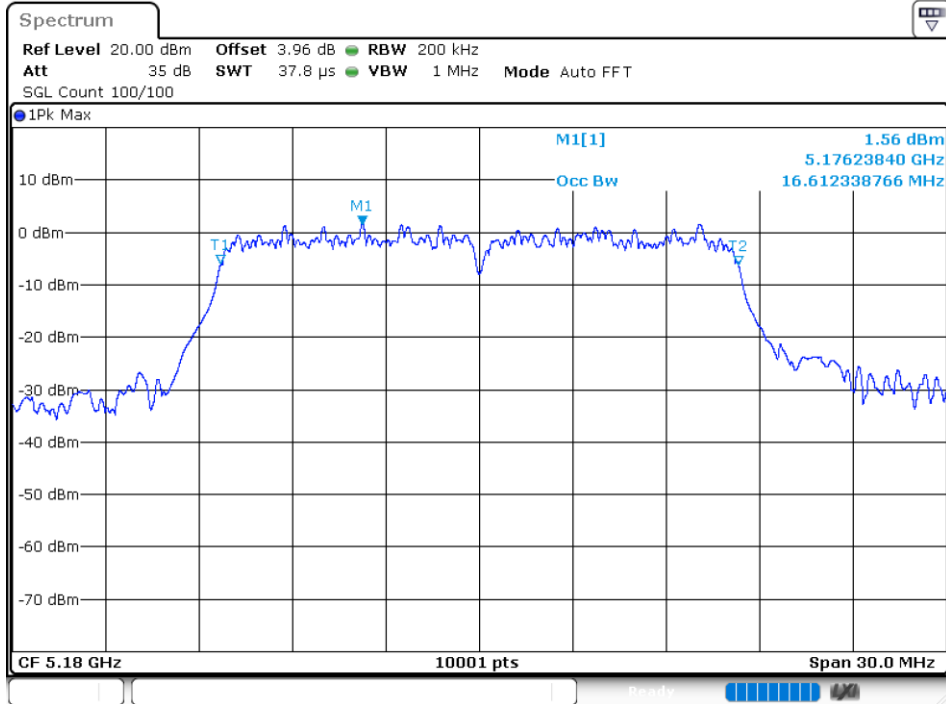


Occupied Channel Bandwidth

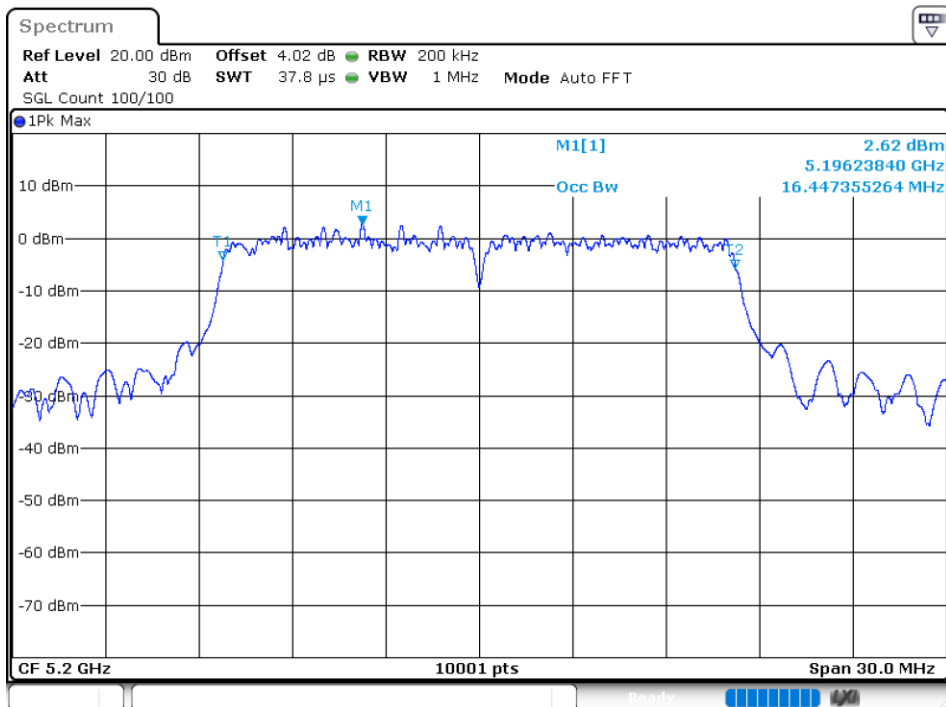
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.612
NVNT	a	5200	Ant1	16.447
NVNT	a	5240	Ant1	16.528
NVNT	n20	5180	Ant1	17.722
NVNT	n20	5200	Ant1	17.641
NVNT	n20	5240	Ant1	17.725
NVNT	n40	5190	Ant1	36.356
NVNT	n40	5230	Ant1	36.458
NVNT	ac20	5180	Ant1	17.629
NVNT	ac20	5200	Ant1	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

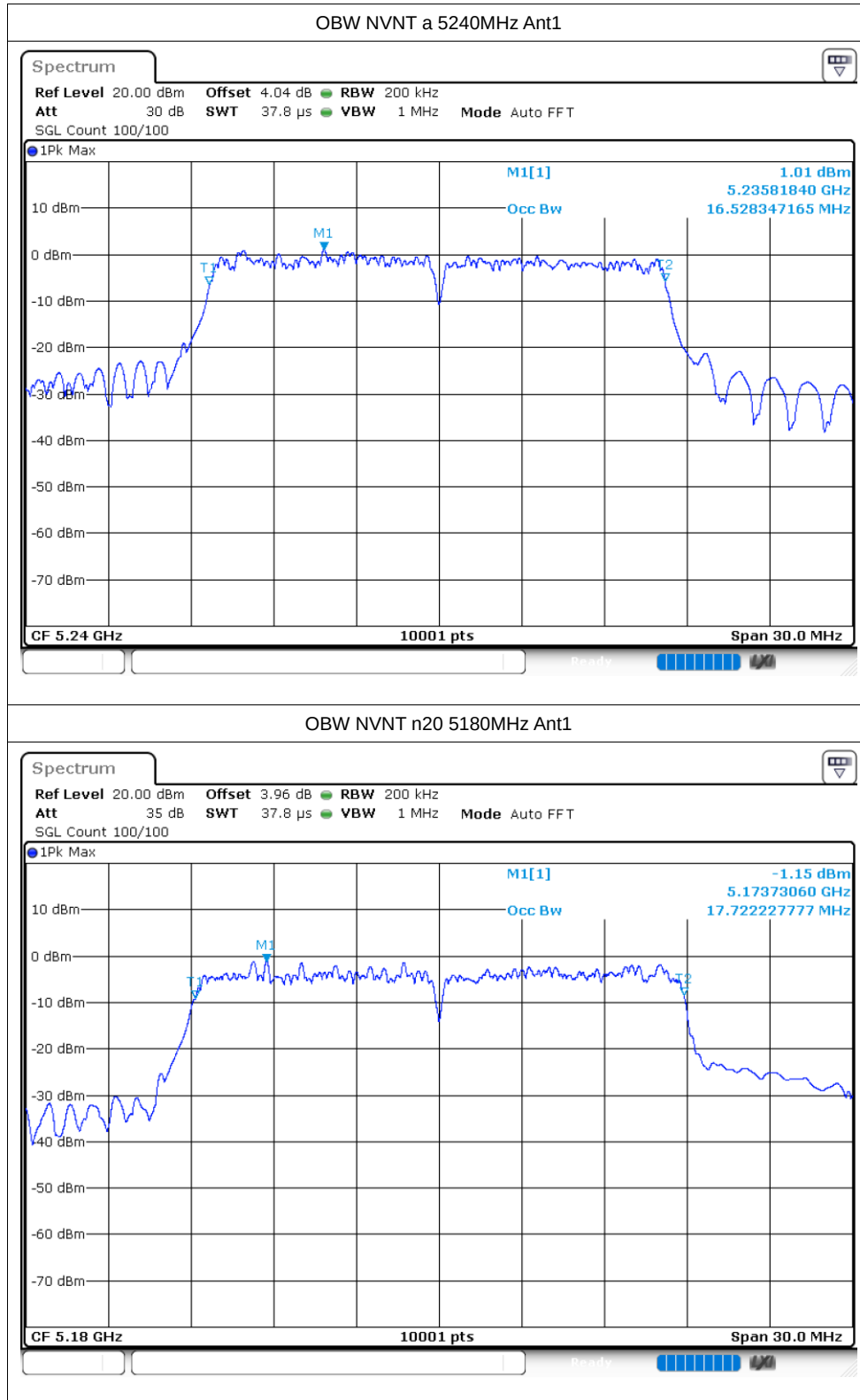
Test Graphs

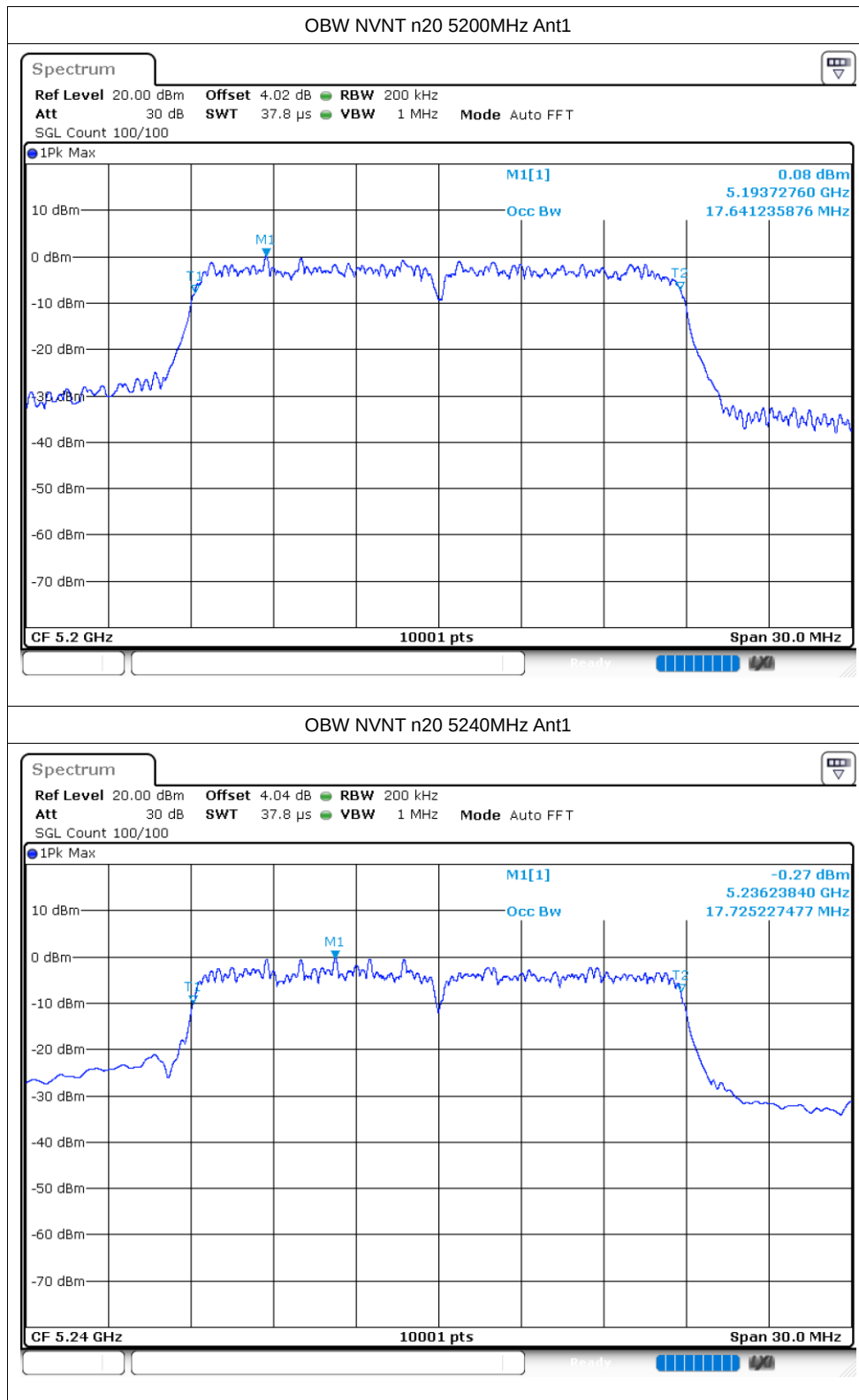
OBW NVNT a 5180MHz Ant1

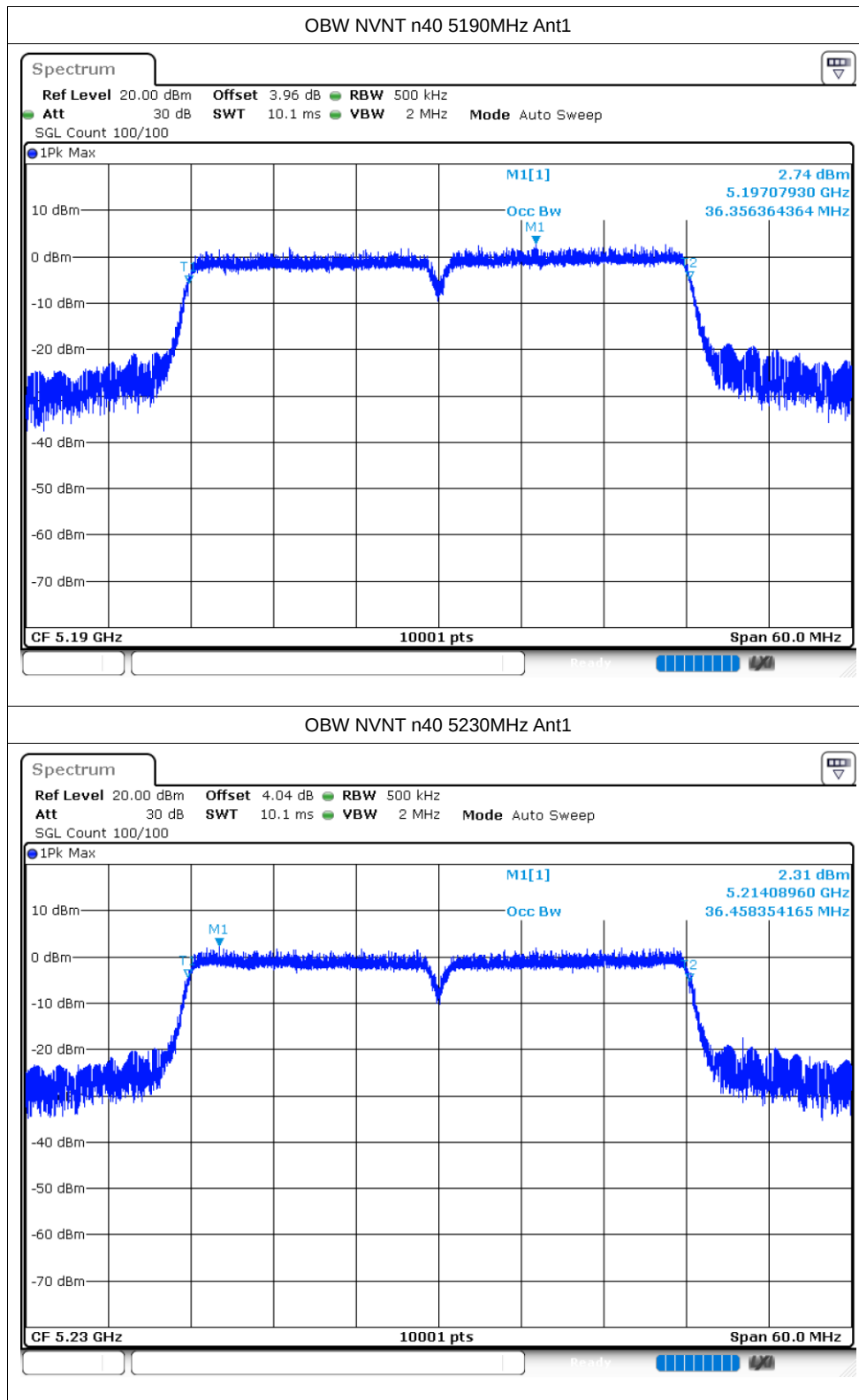


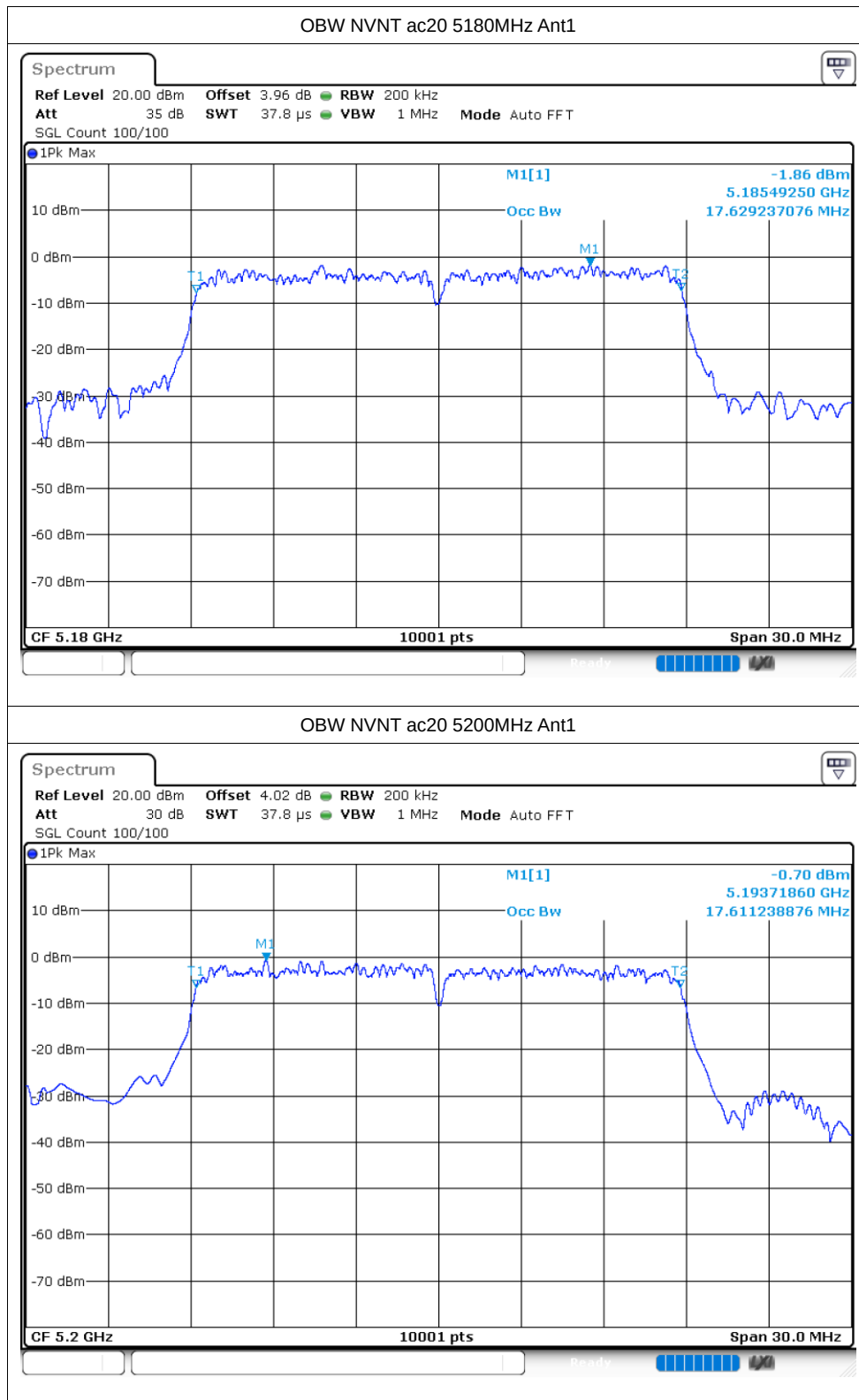
OBW NVNT a 5200MHz Ant1

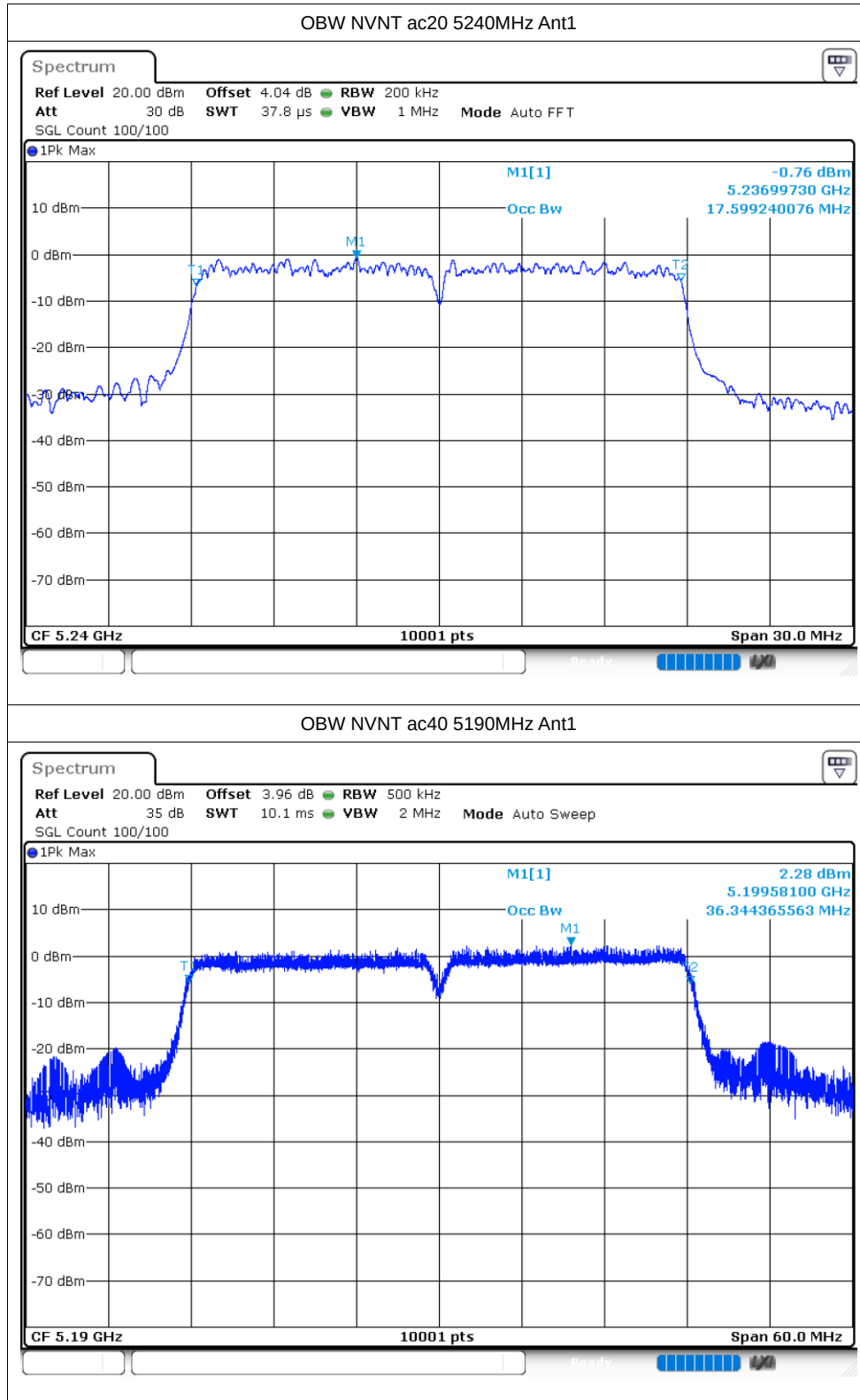


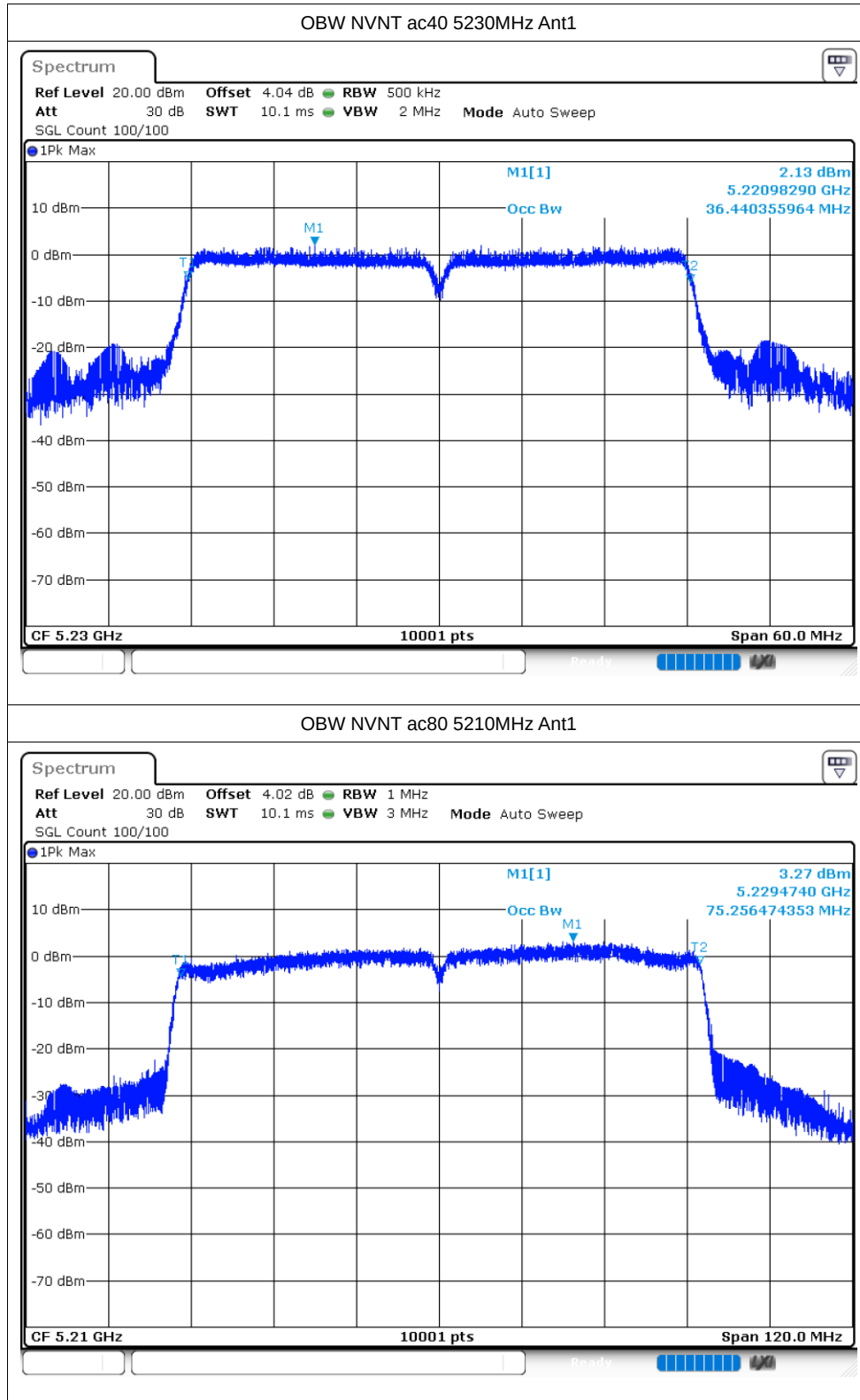










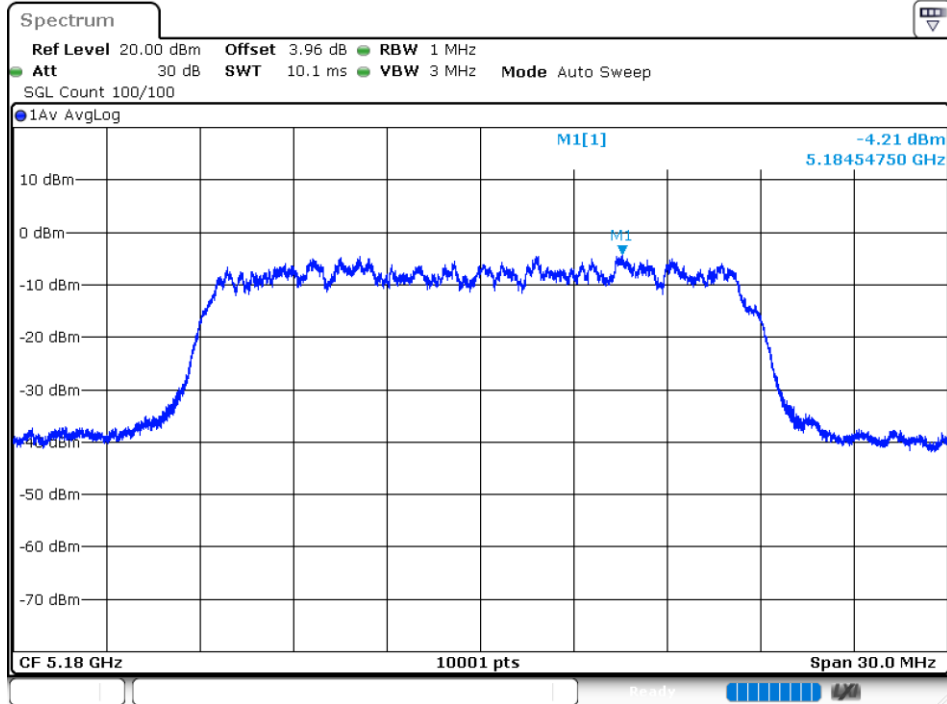


Maximum Power Spectral Density Level

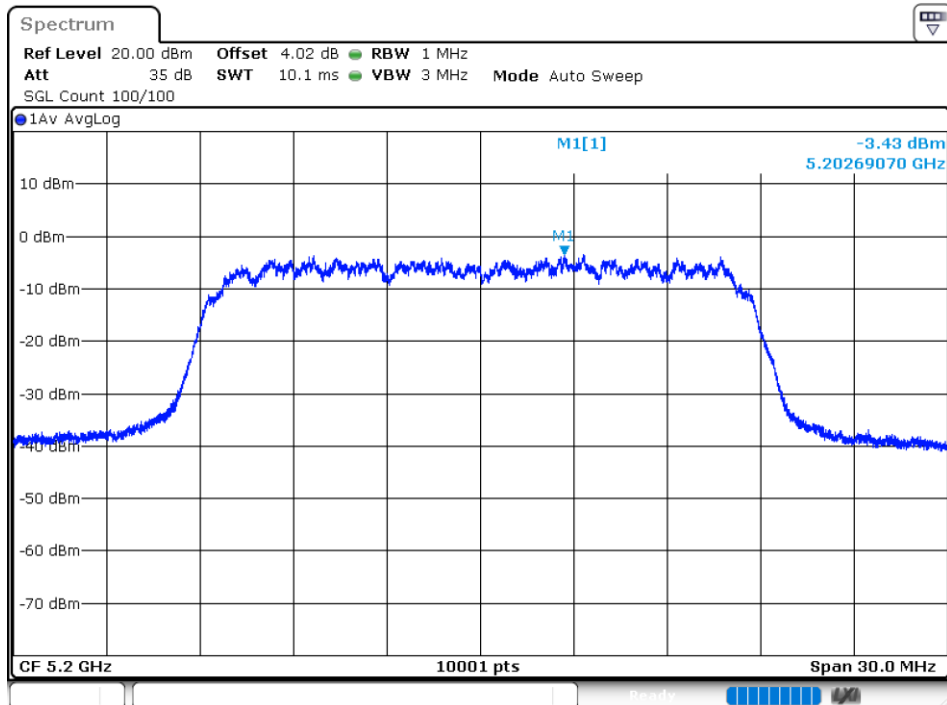
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.21	0.54	-3.67	11	Pass
NVNT	a	5200	Ant1	-3.43	0.53	-2.9	11	Pass
NVNT	a	5240	Ant1	-4.31	0.52	-3.79	11	Pass
NVNT	n20	5180	Ant1	-5.93	0.71	-5.22	11	Pass
NVNT	n20	5200	Ant1	-5.46	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

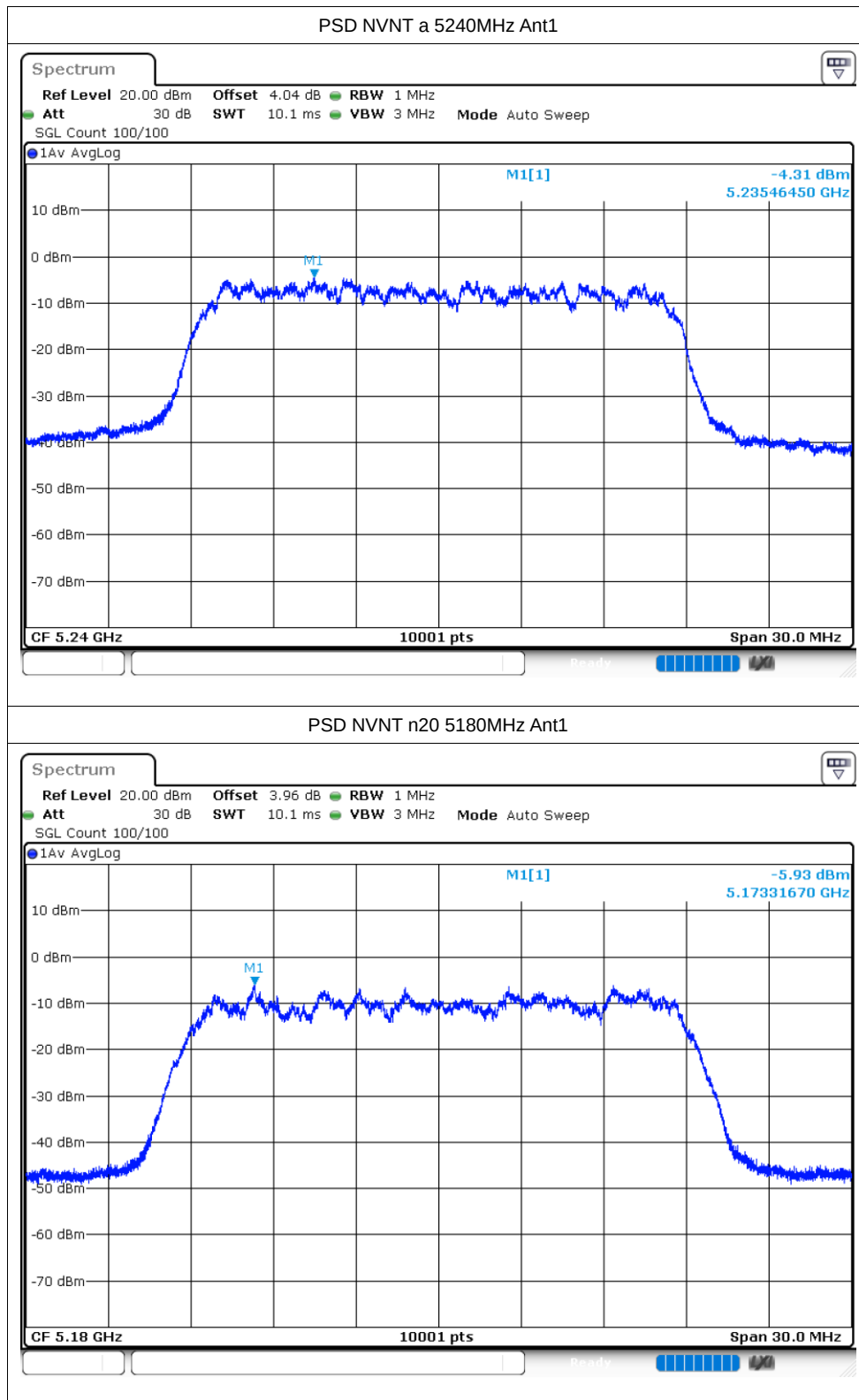
Test Graphs

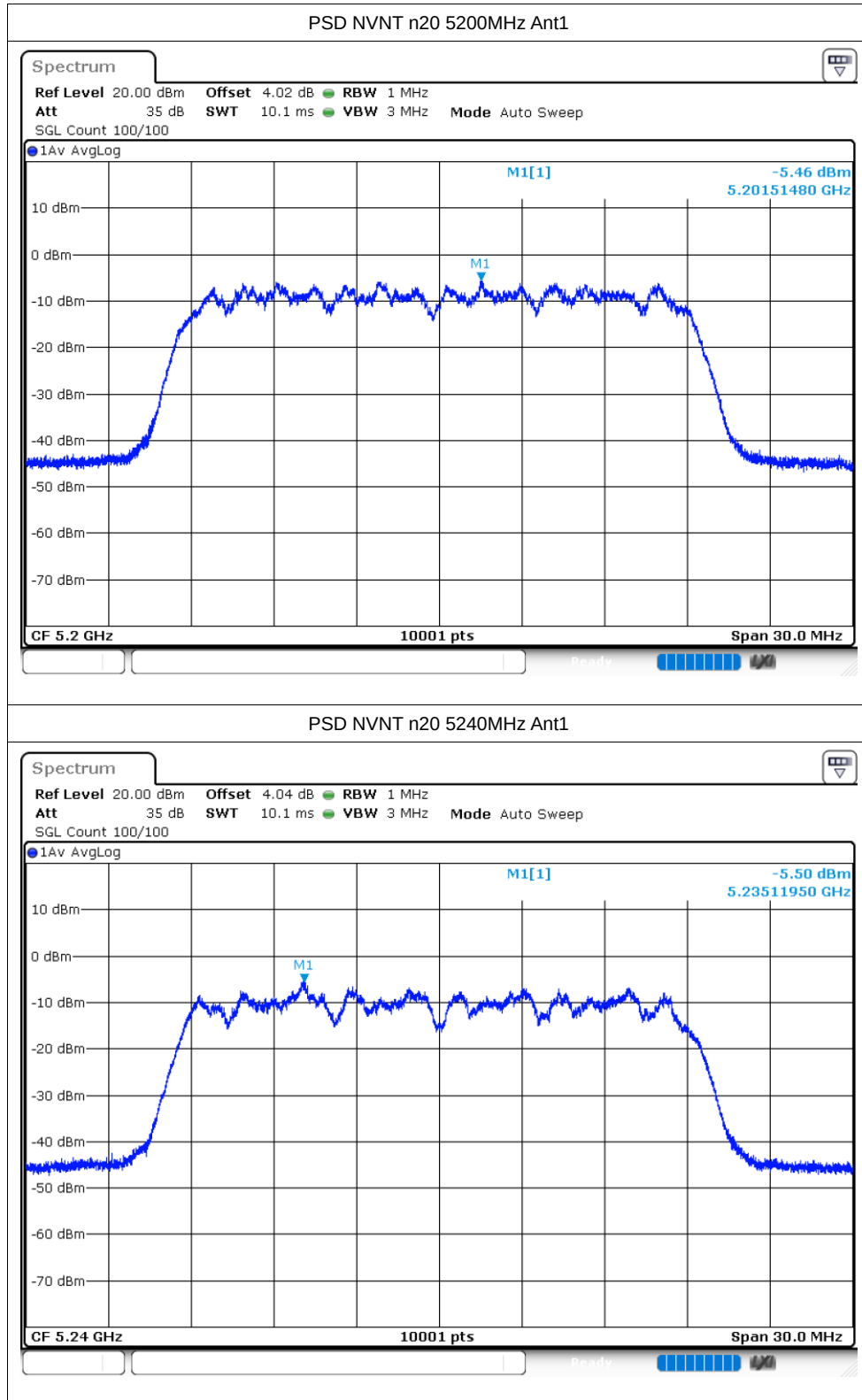
PSD NVNT a 5180MHz Ant1

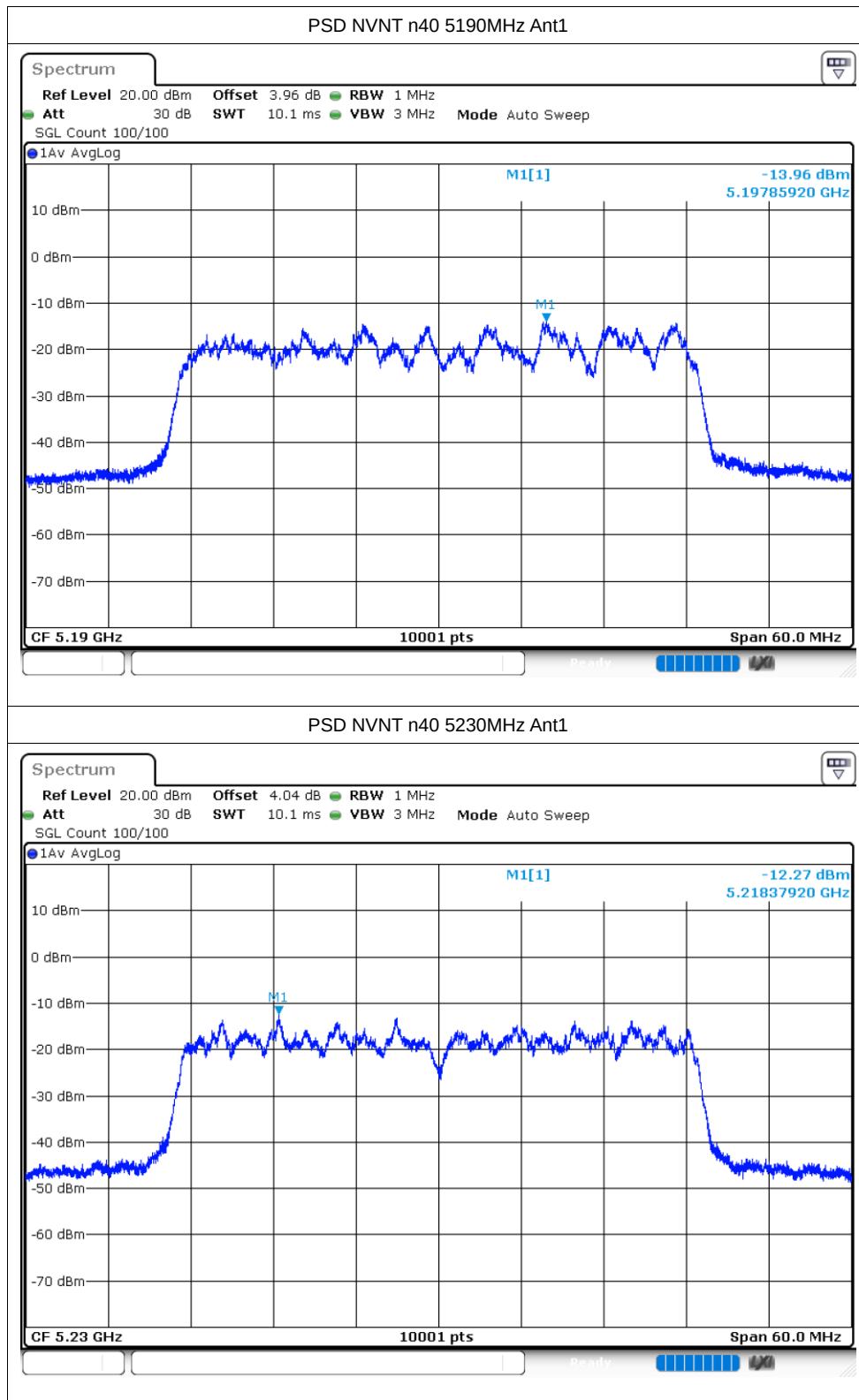


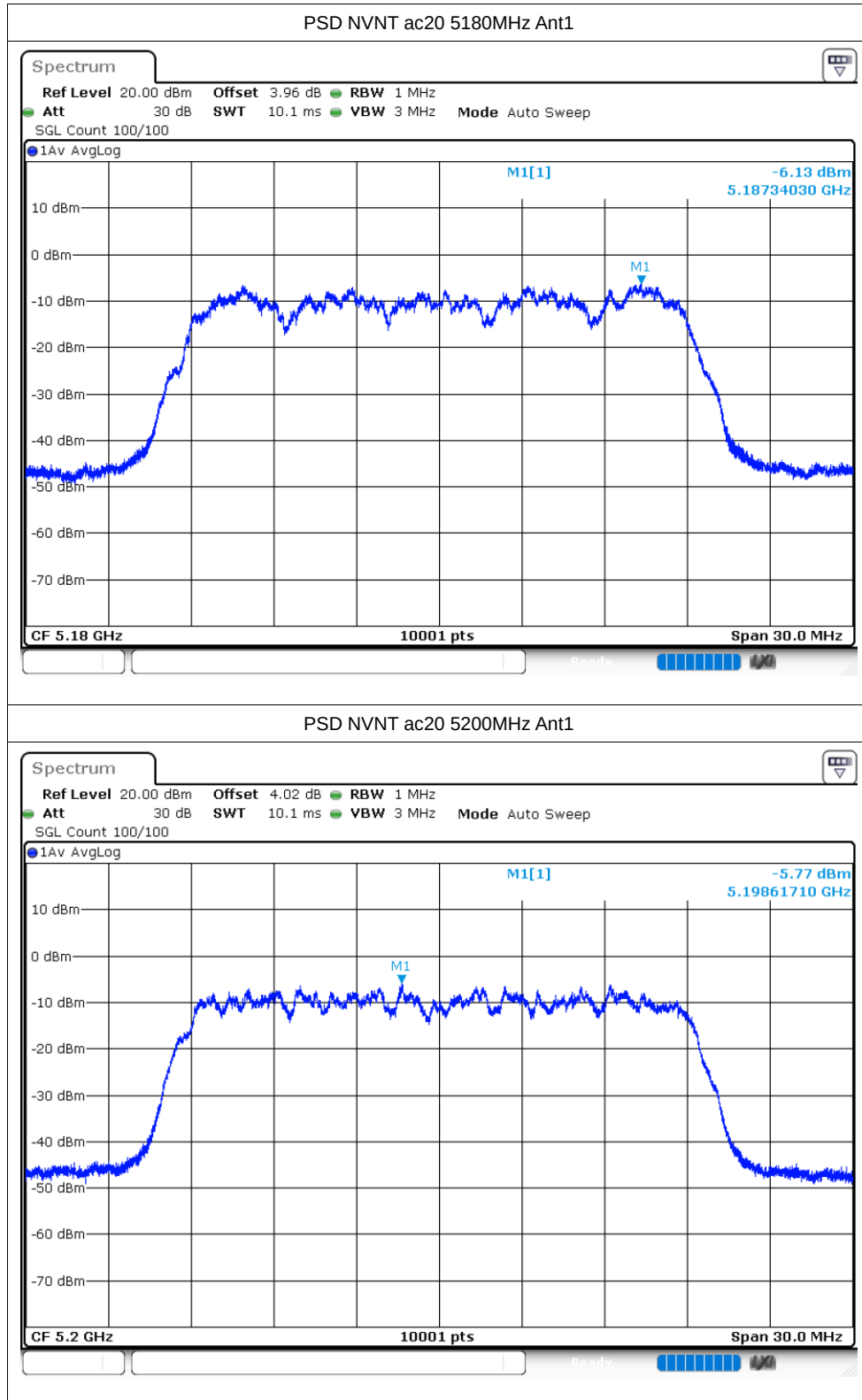
PSD NVNT a 5200MHz Ant1

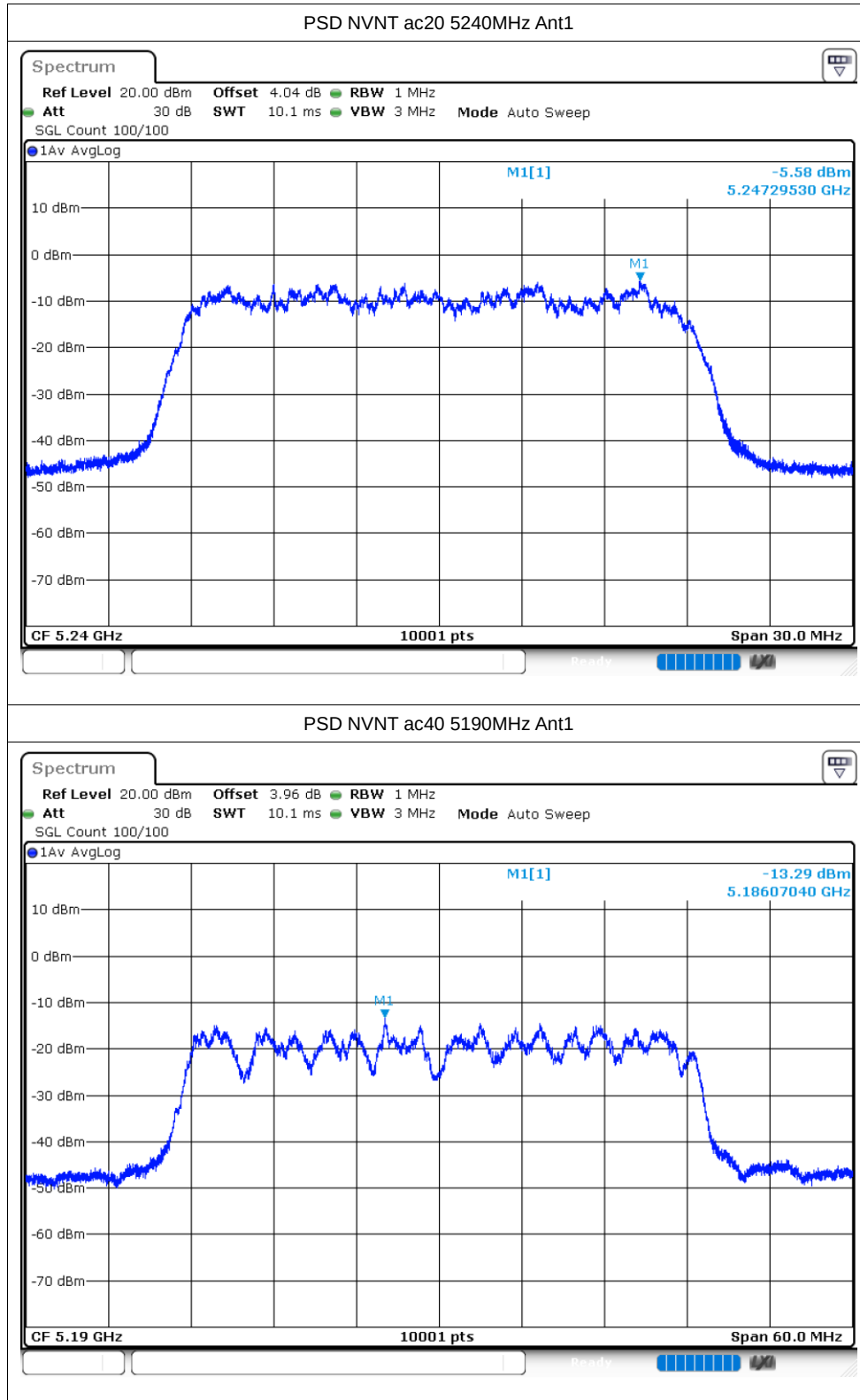


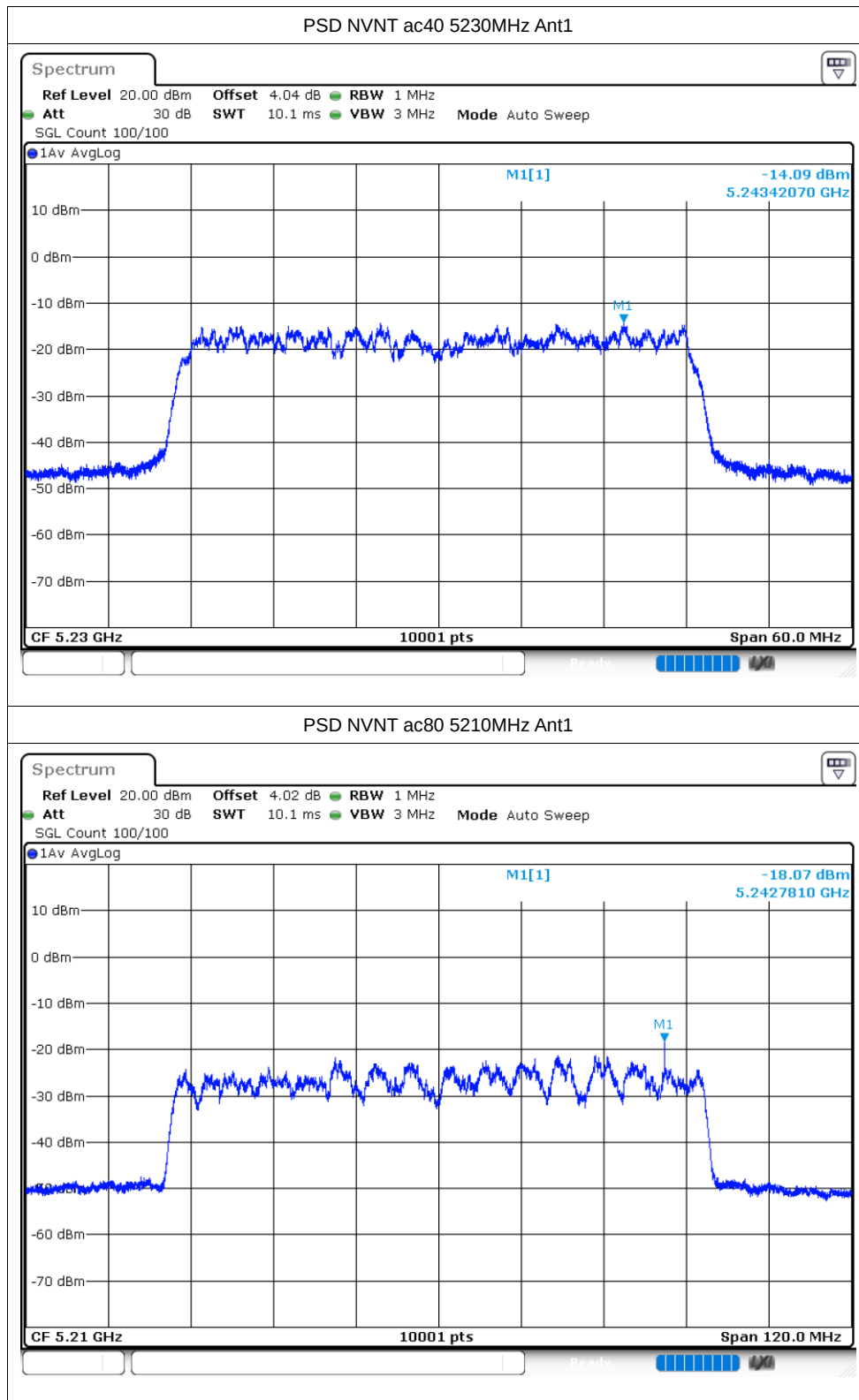










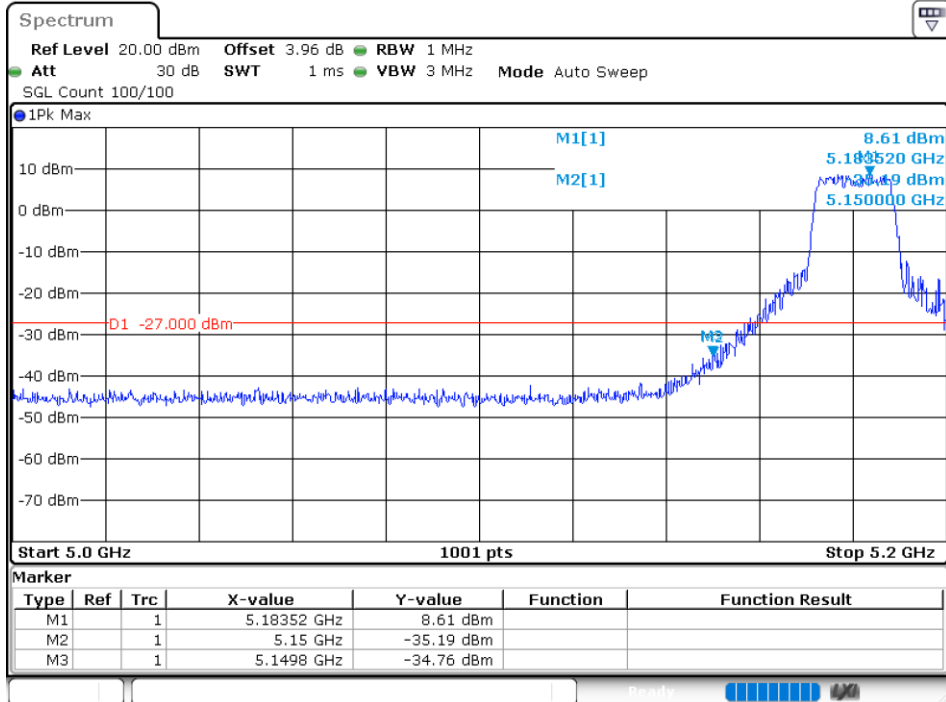


Band Edge

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

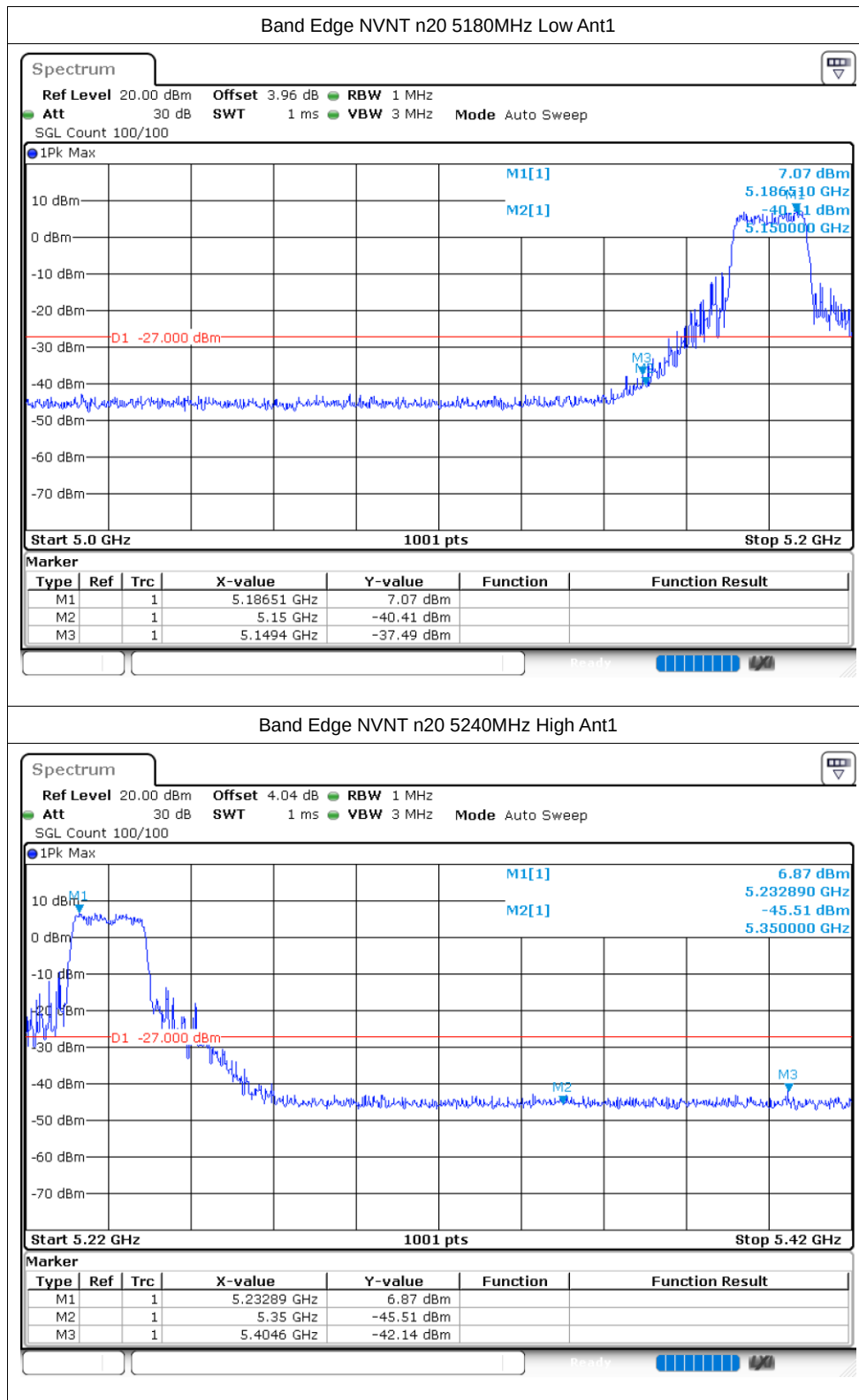
Test Graphs

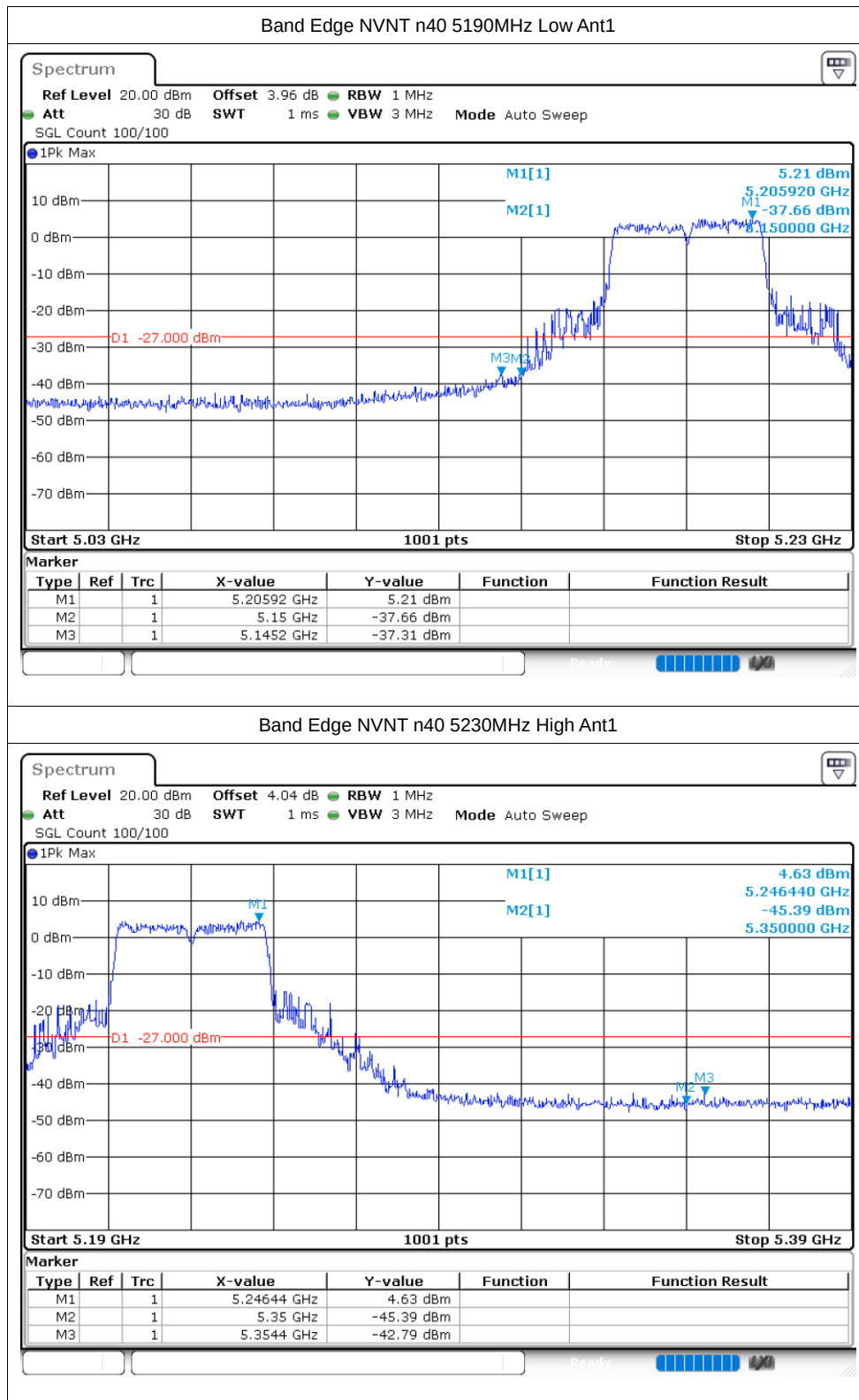
Band Edge NVNT a 5180MHz Low Ant1

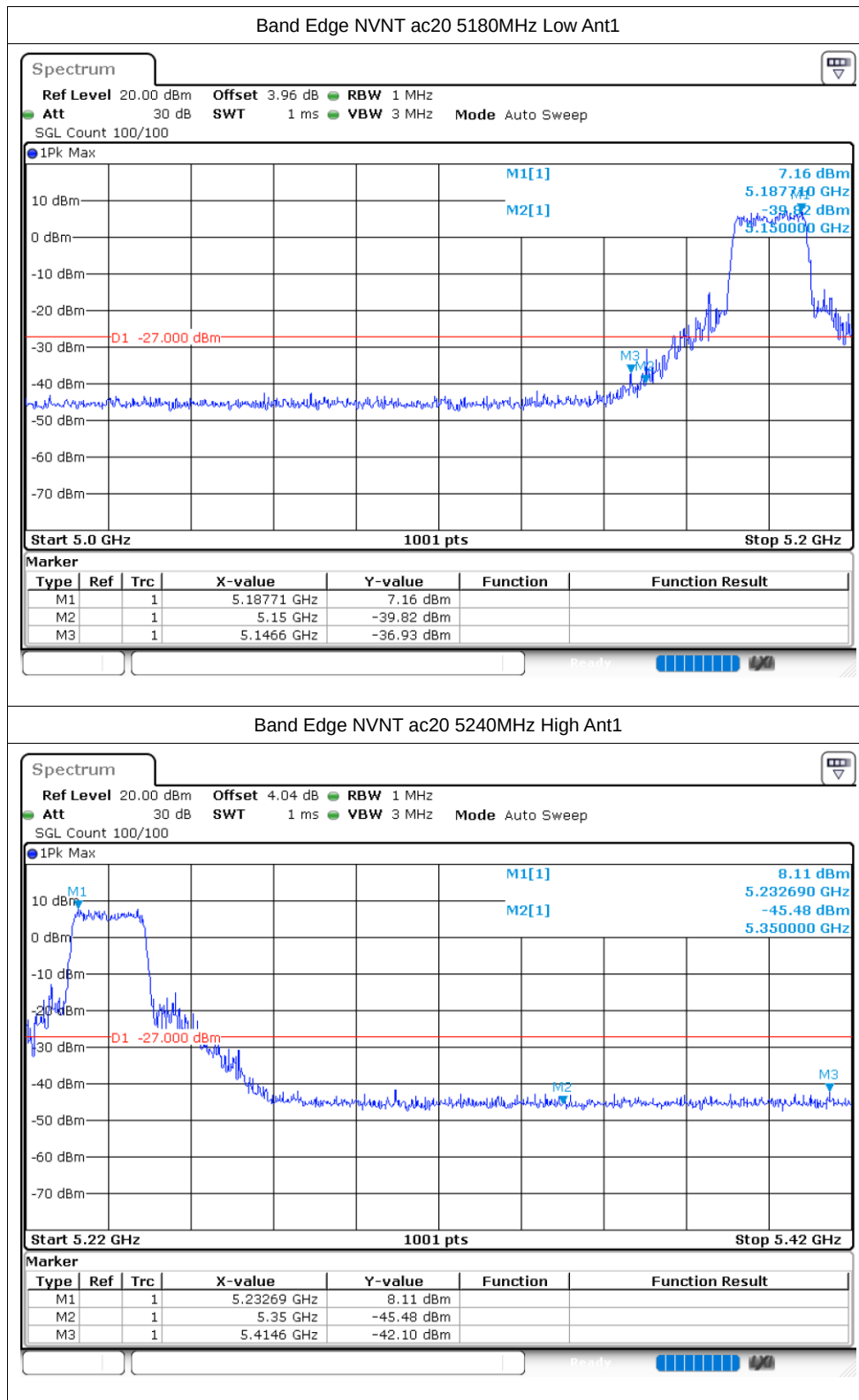


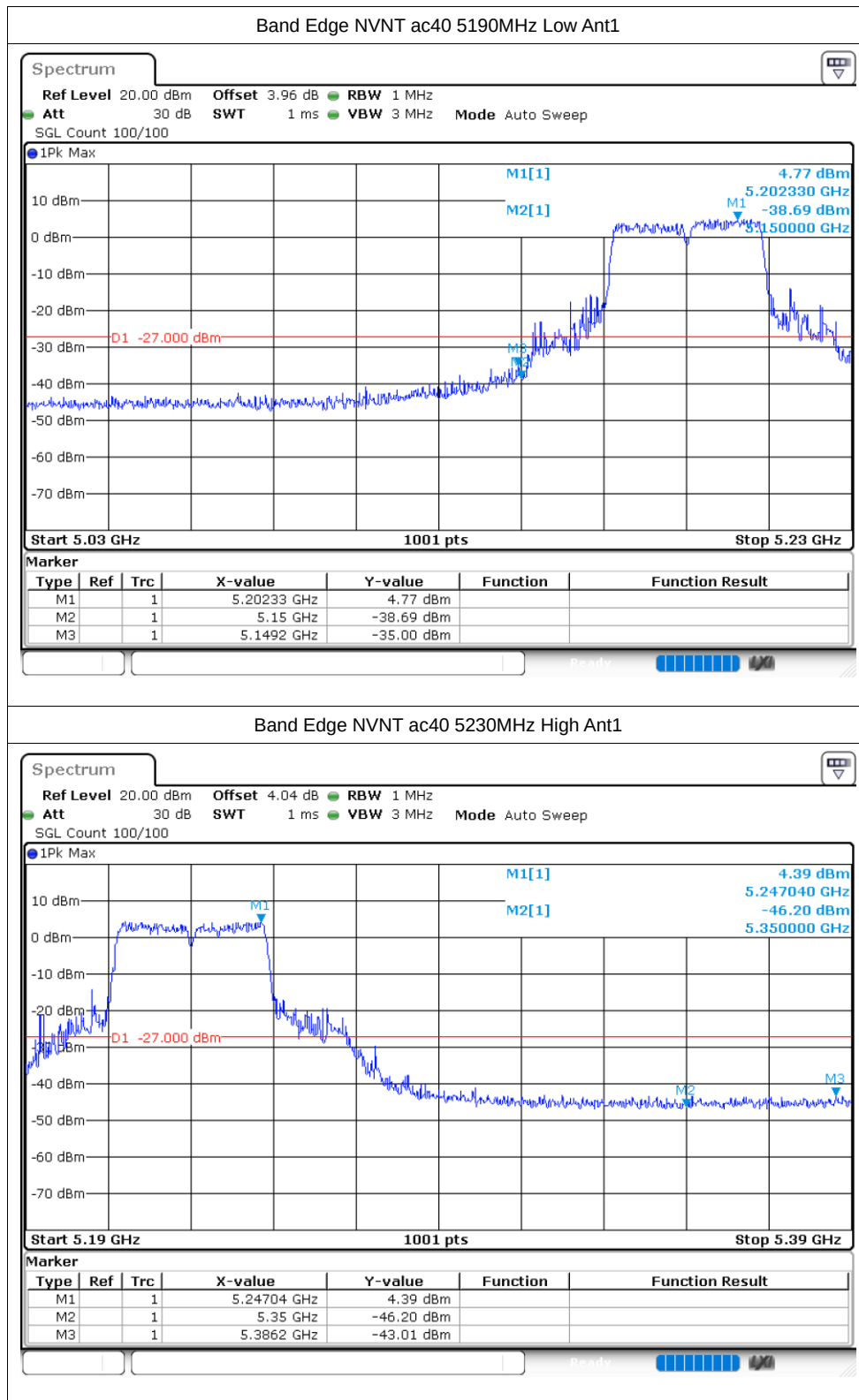
Band Edge NVNT a 5240MHz High Ant1

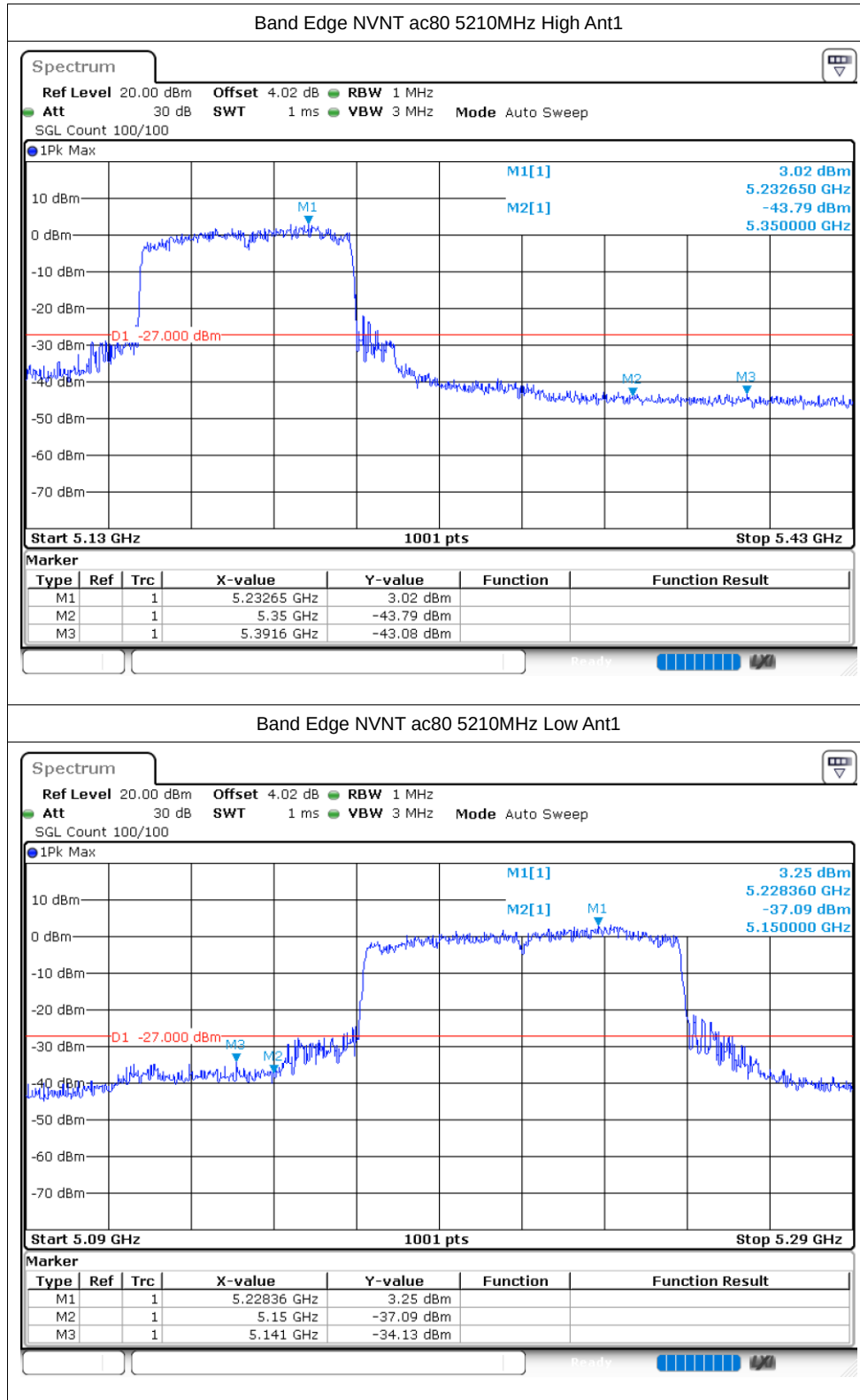










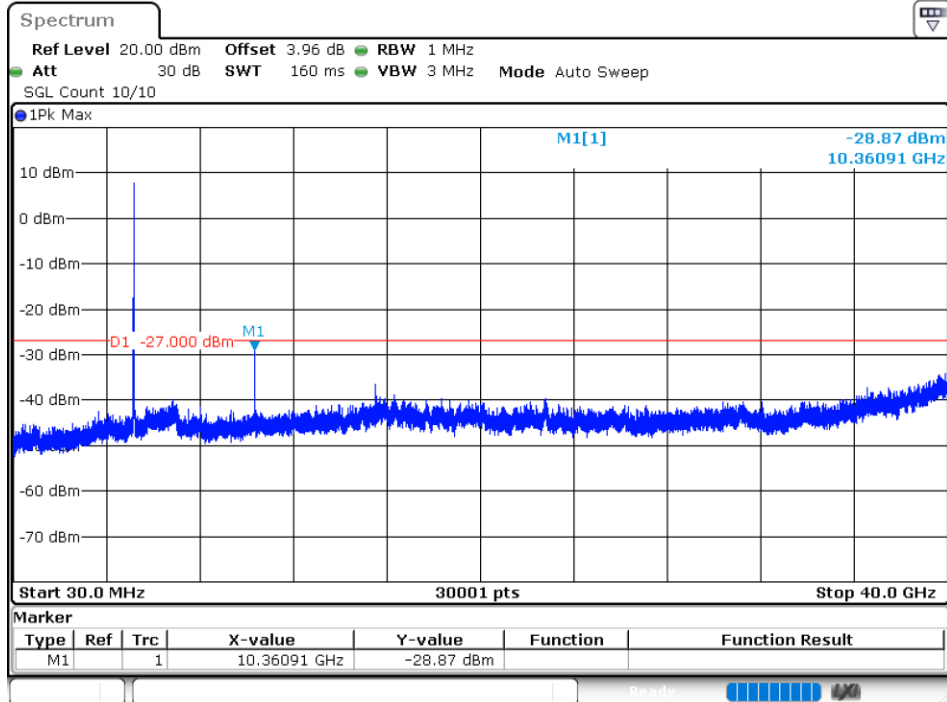


Conducted RF Spurious Emission

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

