

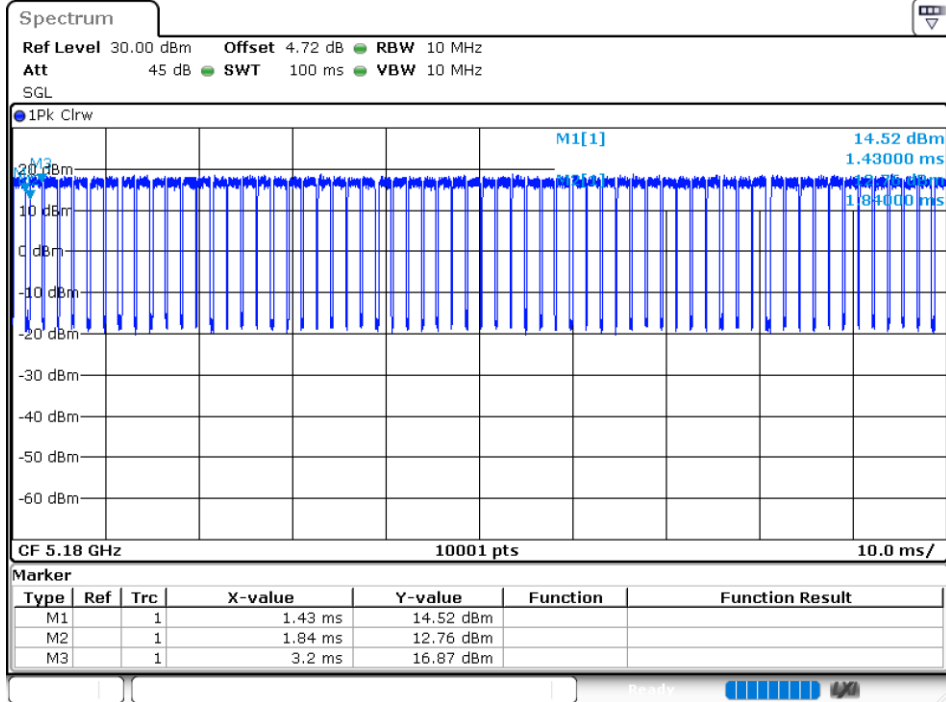
5.2G WIFI

Duty Cycle

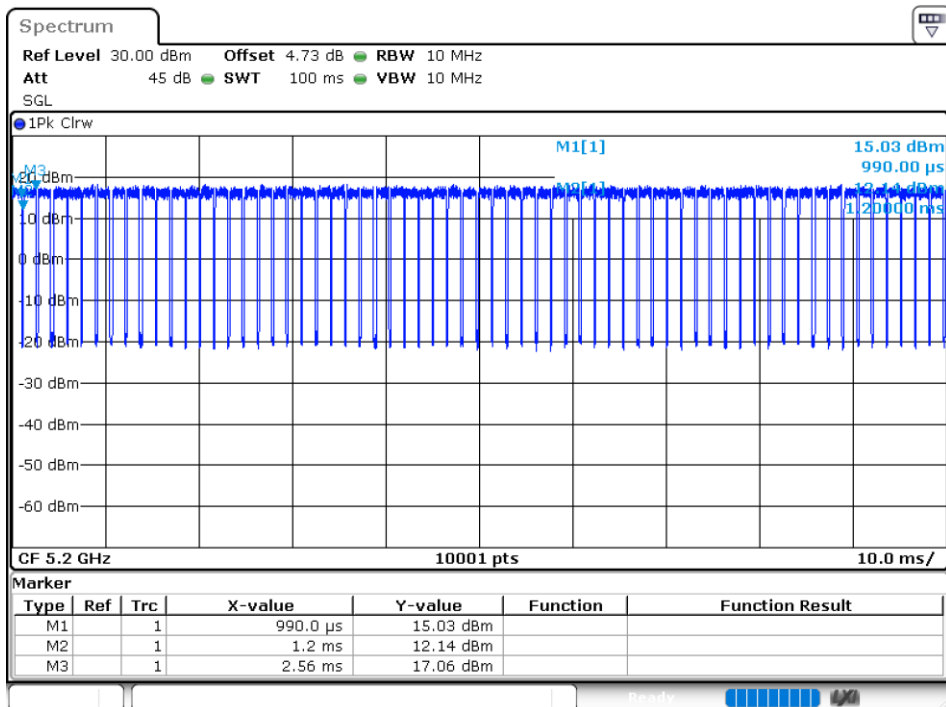
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	84.85	0.71	0.74
NVNT	a	5200	Ant1	87.48	0.58	0.74
NVNT	a	5240	Ant1	88.46	0.53	0.74
NVNT	n20	5180	Ant1	86.23	0.64	0.88
NVNT	n20	5200	Ant1	86.15	0.65	0.87
NVNT	n20	5240	Ant1	86.77	0.62	0.87
NVNT	n40	5190	Ant1	76.33	1.17	1.75
NVNT	n40	5230	Ant1	76.22	1.18	1.75
NVNT	ac20	5180	Ant1	86.67	0.62	0.87
NVNT	ac20	5200	Ant1	86.95	0.61	0.86
NVNT	ac20	5240	Ant1	86.75	0.62	0.87
NVNT	ac40	5190	Ant1	75.83	1.2	1.72
NVNT	ac40	5230	Ant1	76.55	1.16	1.72
NVNT	ac80	5210	Ant1	62.53	2.04	3.45

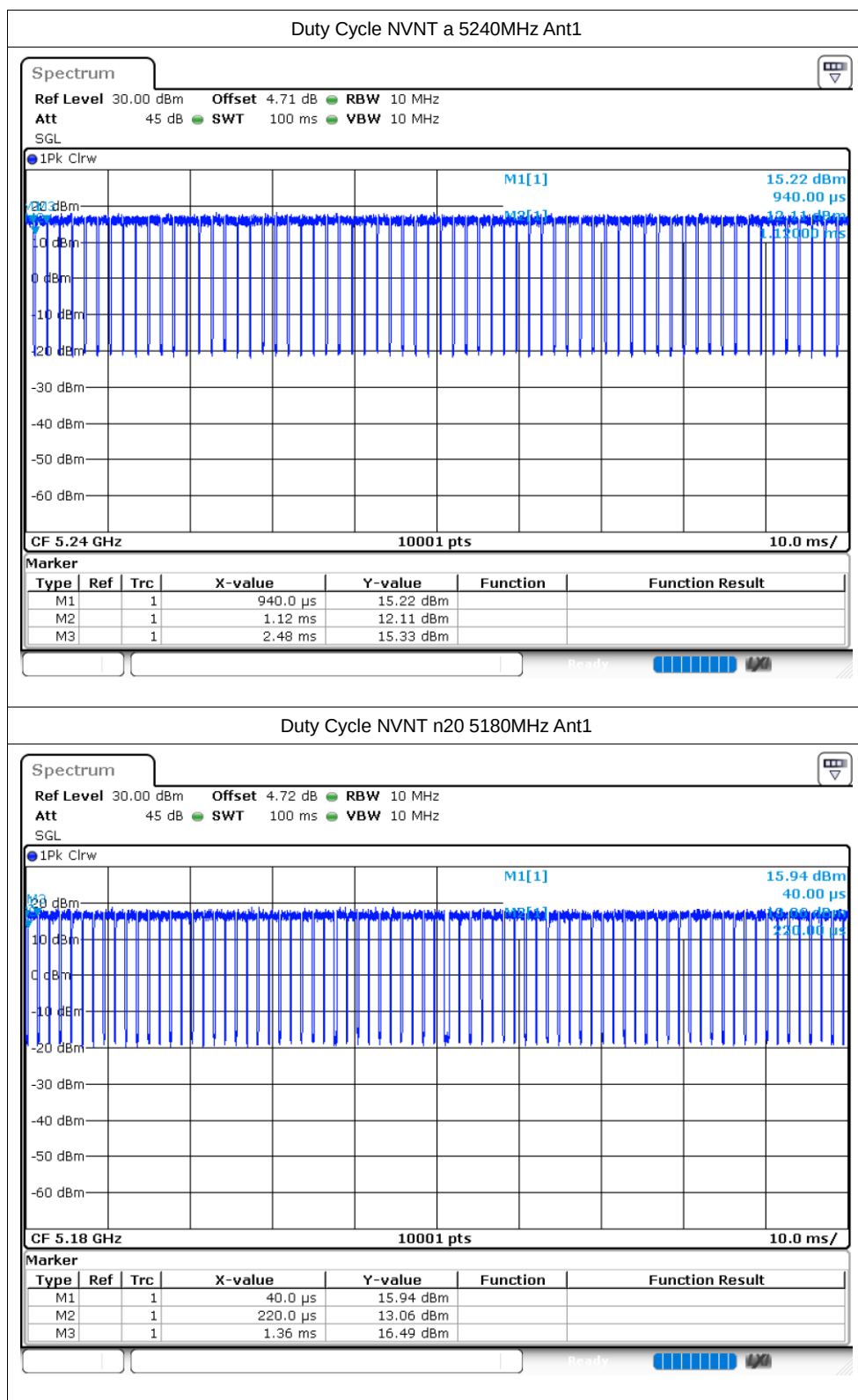
Test Graphs

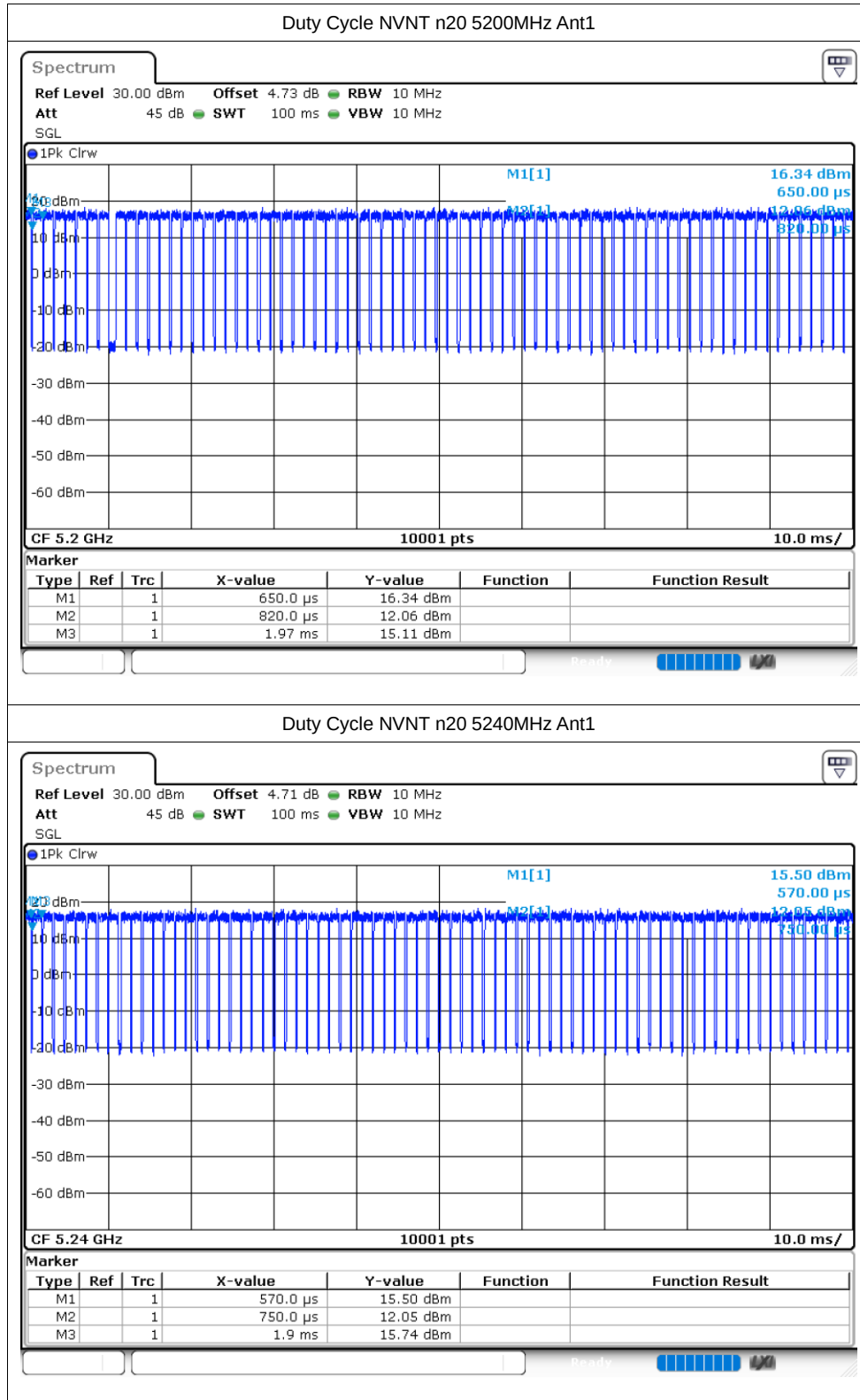
Duty Cycle NVNT a 5180MHz Ant1

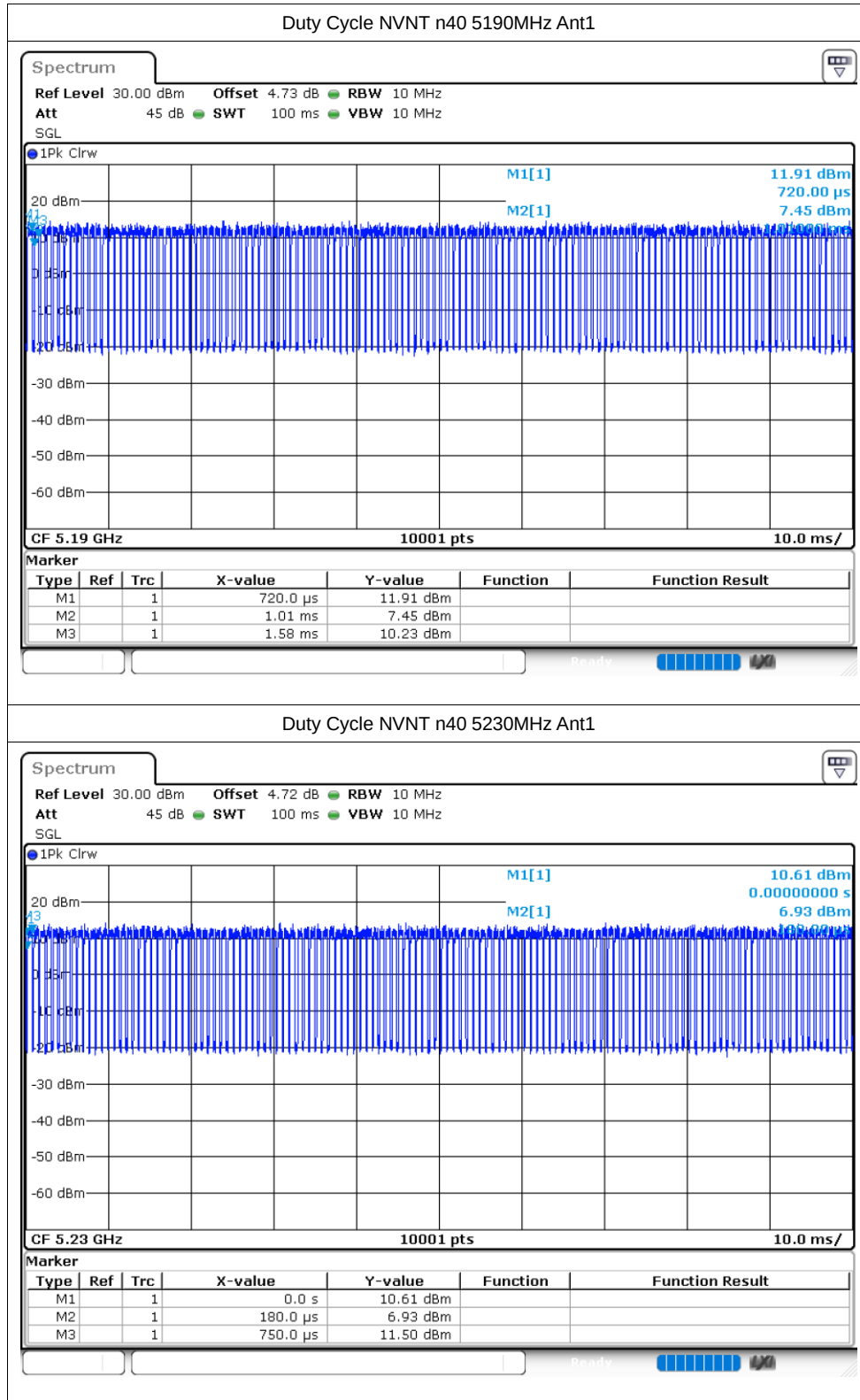


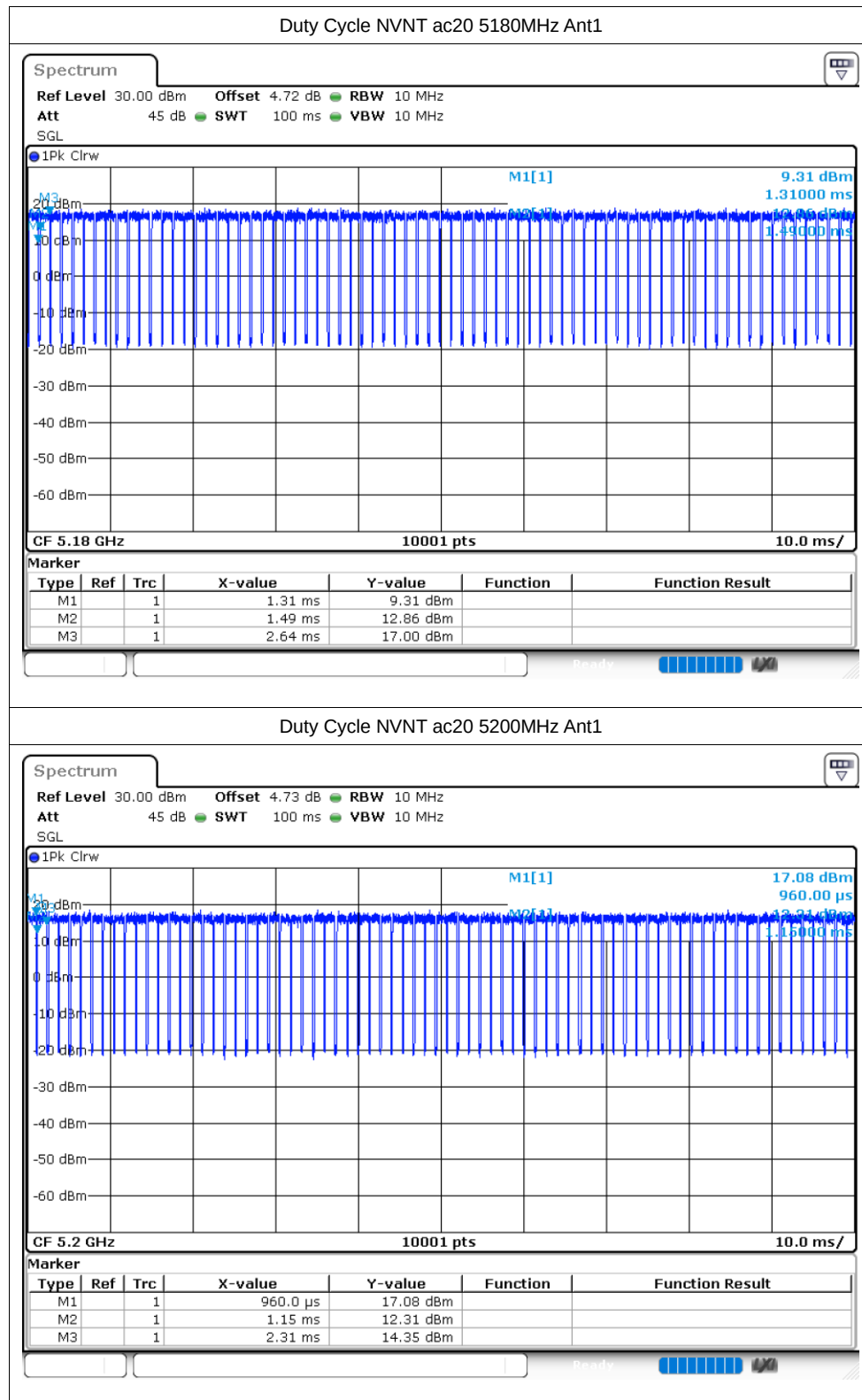
Duty Cycle NVNT a 5200MHz Ant1

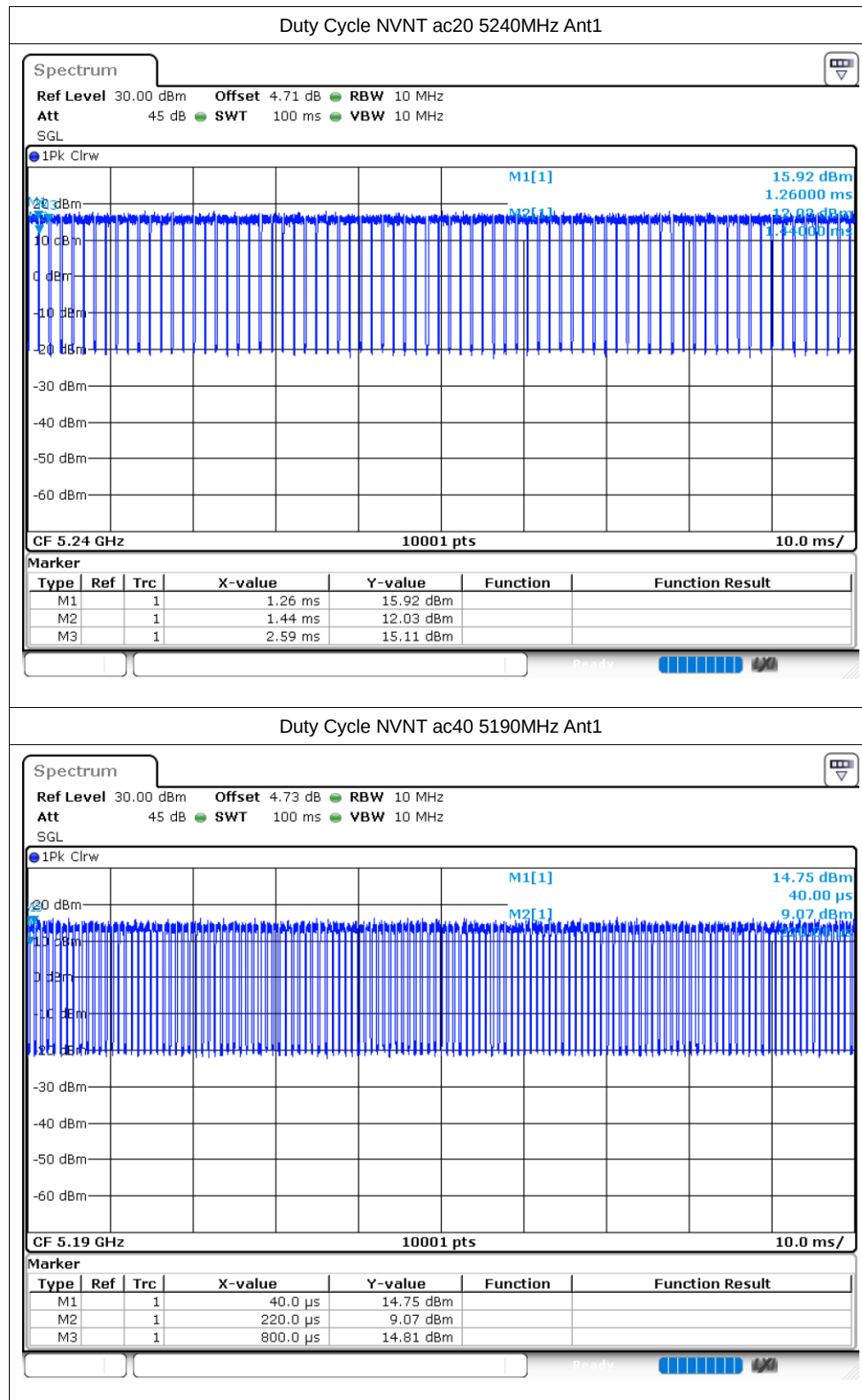




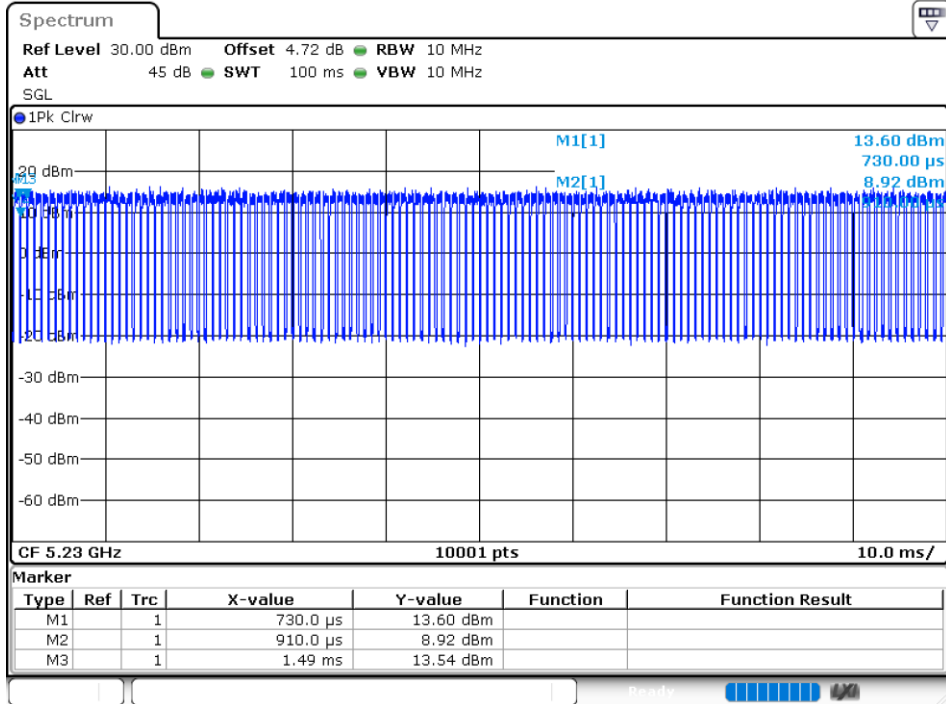




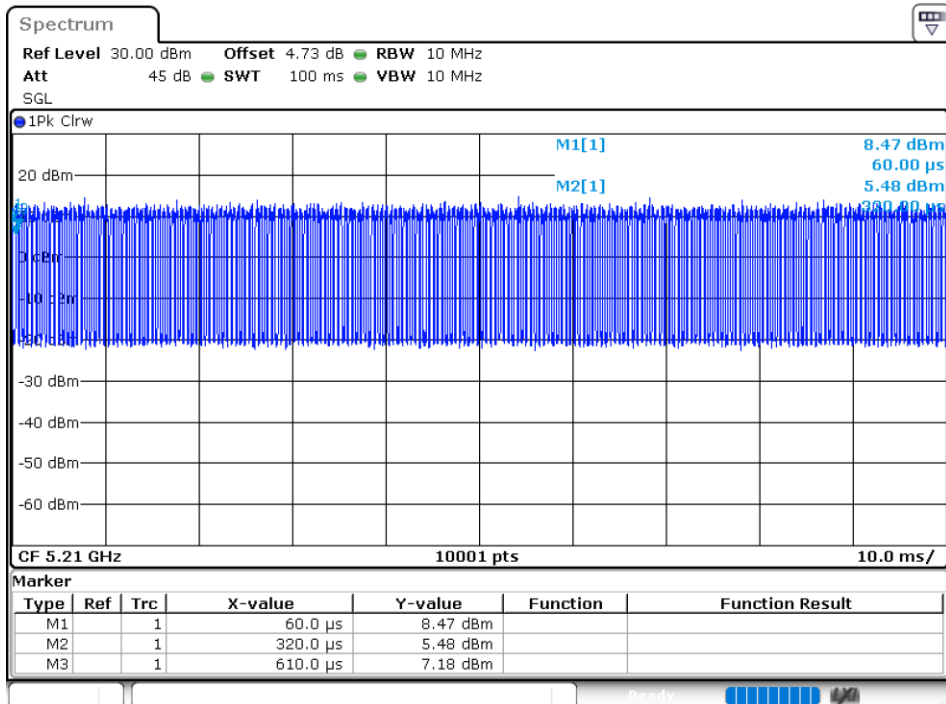




Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.46	24	Pass
NVNT	a	5200	Ant1	12.09	24	Pass
NVNT	a	5240	Ant1	11.95	24	Pass
NVNT	n20	5180	Ant1	12.24	24	Pass
NVNT	n20	5200	Ant1	12.31	24	Pass
NVNT	n20	5240	Ant1	12.03	24	Pass
NVNT	n40	5190	Ant1	10.73	24	Pass
NVNT	n40	5230	Ant1	10.42	24	Pass
NVNT	ac20	5180	Ant1	12.25	24	Pass
NVNT	ac20	5200	Ant1	12.21	24	Pass
NVNT	ac20	5240	Ant1	11.86	24	Pass
NVNT	ac40	5190	Ant1	12.78	24	Pass
NVNT	ac40	5230	Ant1	12.24	24	Pass
NVNT	ac80	5210	Ant1	12.31	24	Pass

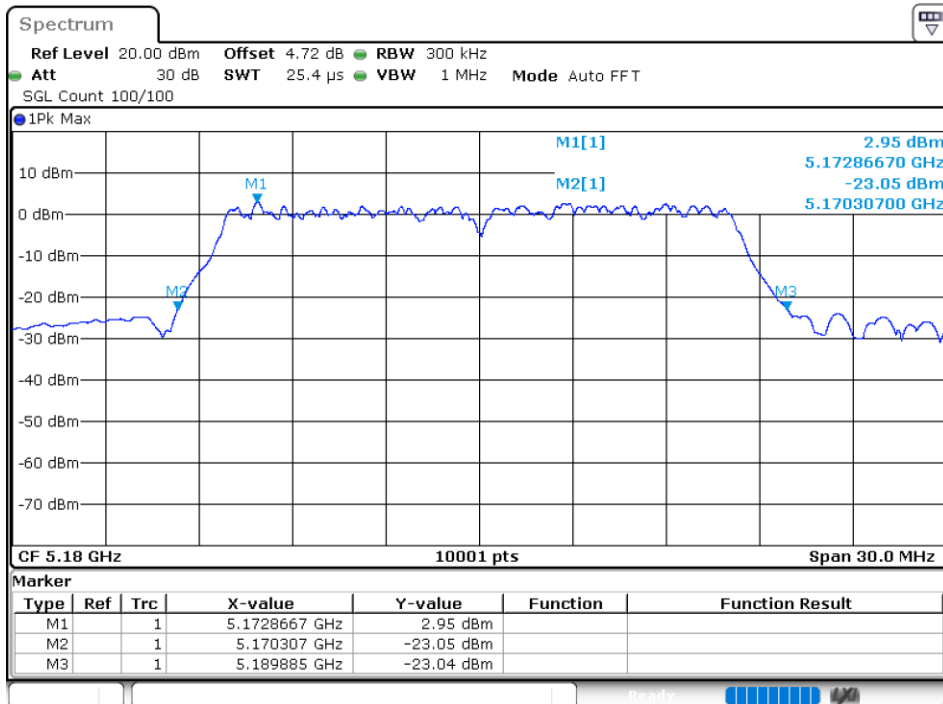
Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

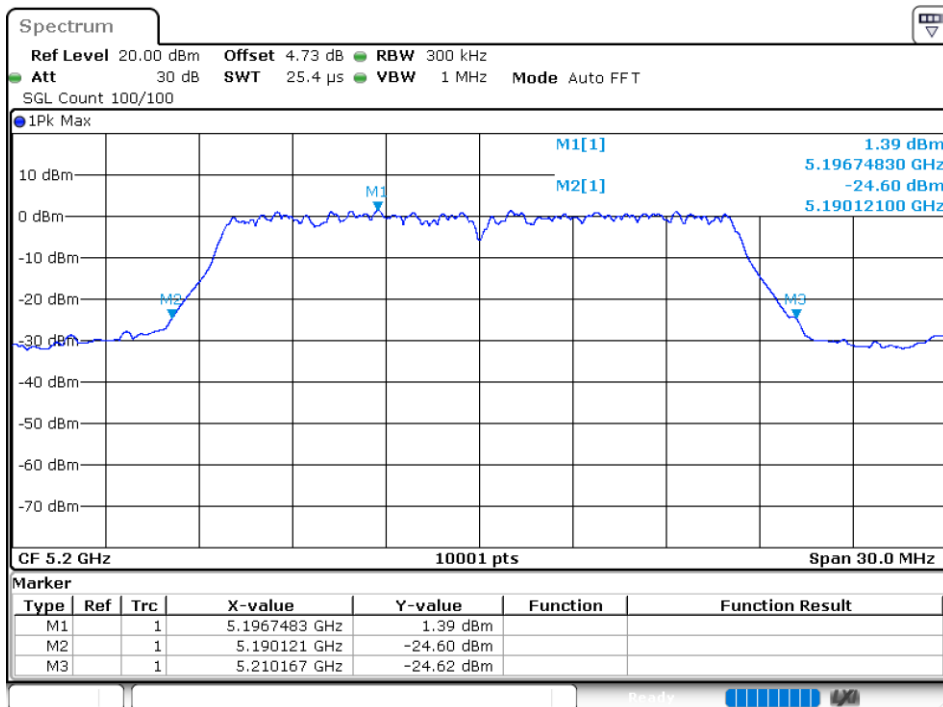
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.578	0.5	Pass
NVNT	a	5200	Ant1	20.046	0.5	Pass
NVNT	a	5240	Ant1	19.677	0.5	Pass
NVNT	n20	5180	Ant1	20.025	0.5	Pass
NVNT	n20	5200	Ant1	19.959	0.5	Pass
NVNT	n20	5240	Ant1	25.017	0.5	Pass
NVNT	n40	5190	Ant1	55.932	0.5	Pass
NVNT	n40	5230	Ant1	52.698	0.5	Pass
NVNT	ac20	5180	Ant1	20.517	0.5	Pass
NVNT	ac20	5200	Ant1	19.956	0.5	Pass
NVNT	ac20	5240	Ant1	22.827	0.5	Pass
NVNT	ac40	5190	Ant1	52.866	0.5	Pass
NVNT	ac40	5230	Ant1	51.45	0.5	Pass
NVNT	ac80	5210	Ant1	84.396	0.5	Pass

Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1

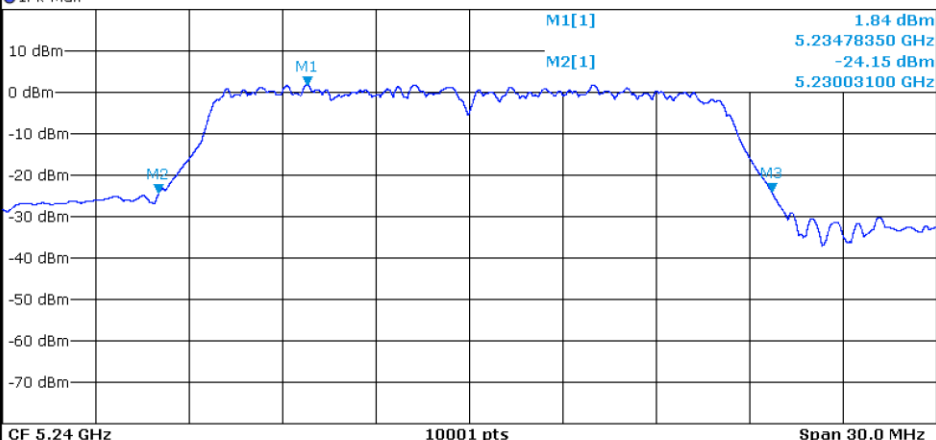


-26dB Bandwidth NVNT a 5240MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.71 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



CF 5.24 GHz 10001 pts Span 30.0 MHz

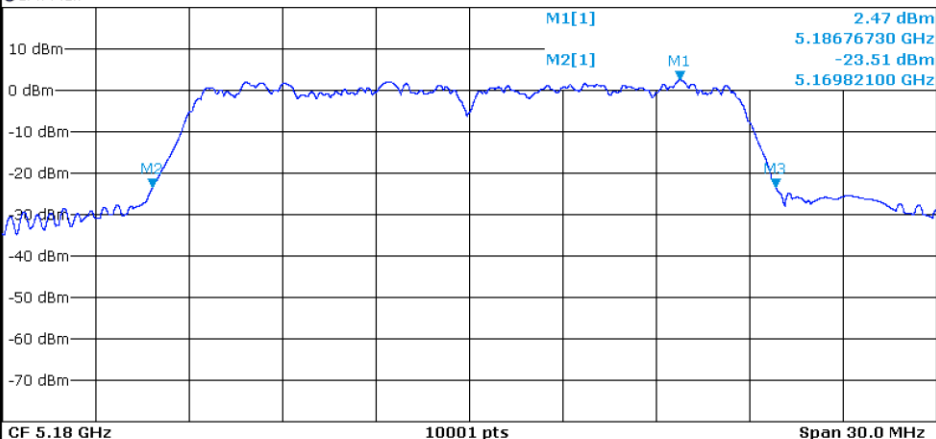
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2347835 GHz	1.84 dBm		
M2		1	5.230031 GHz	-24.15 dBm		
M3		1	5.249708 GHz	-24.14 dBm		

-26dB Bandwidth NVNT n20 5180MHz Ant1

Spectrum

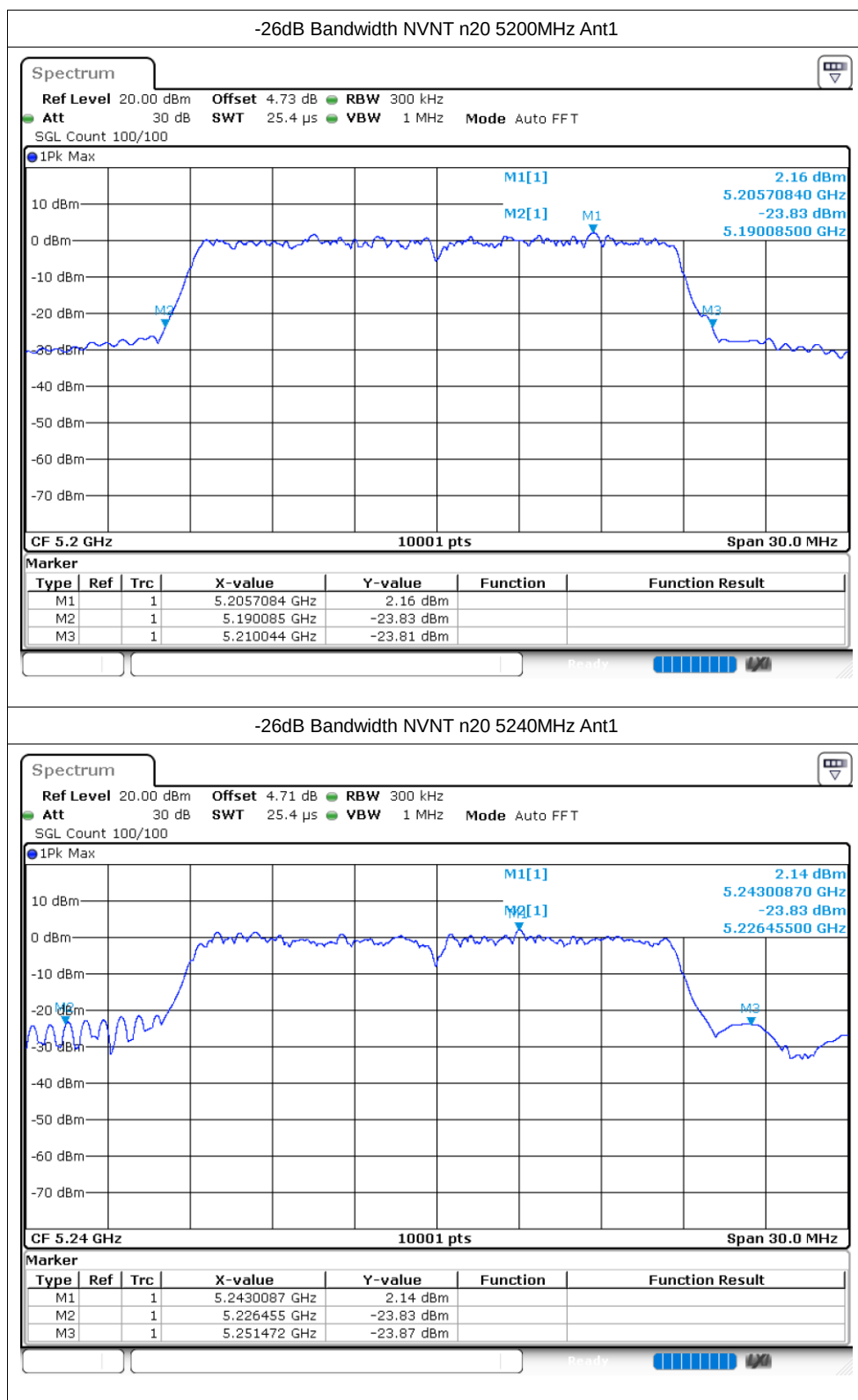
Ref Level 20.00 dBm Offset 4.72 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max

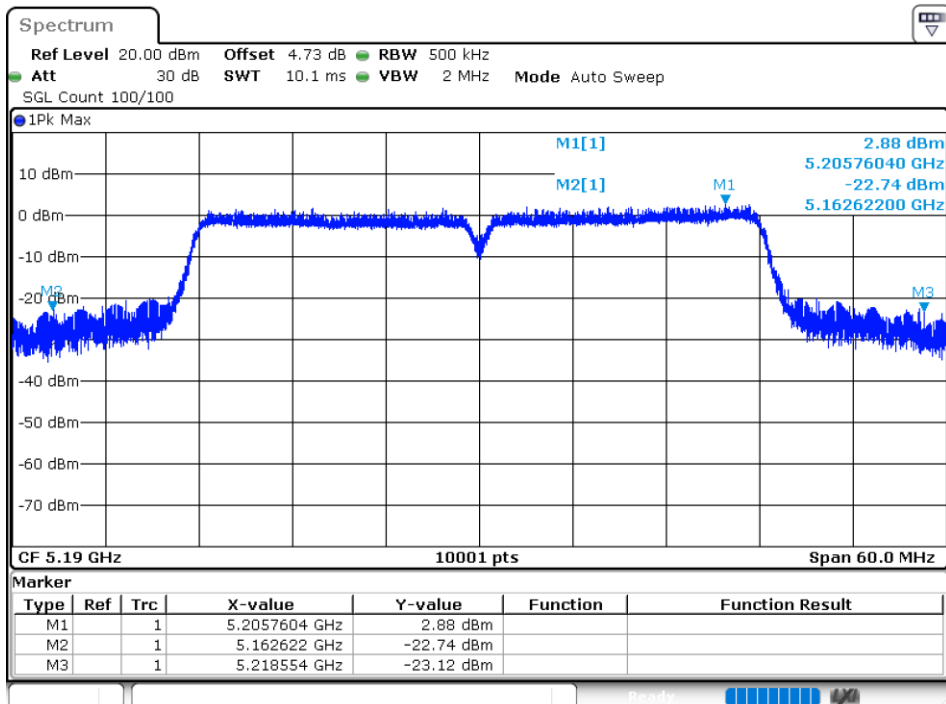


CF 5.18 GHz 10001 pts Span 30.0 MHz

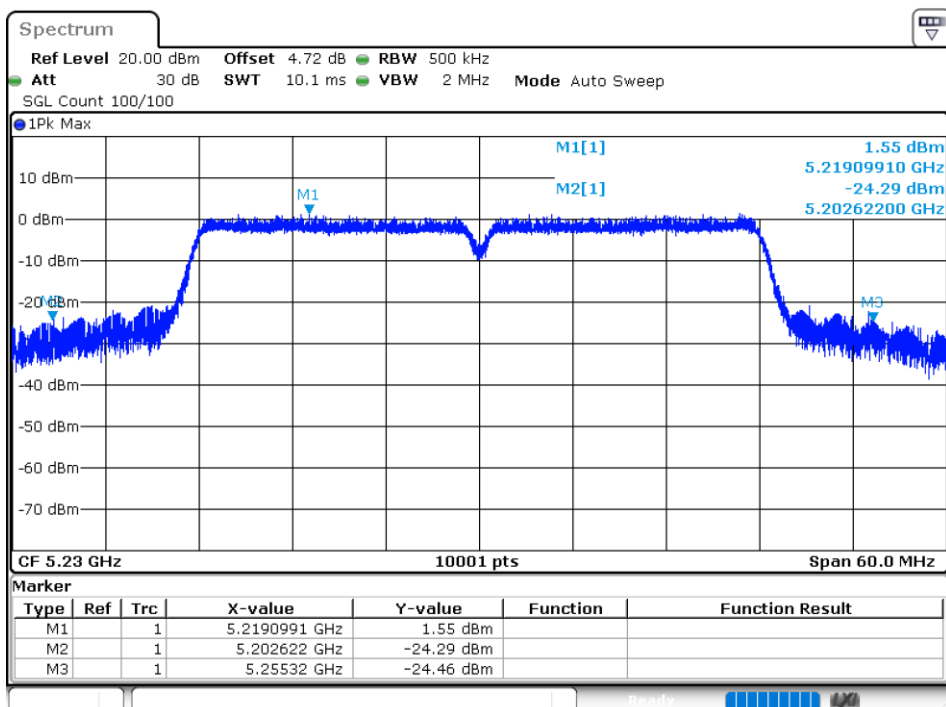
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.1867673 GHz	2.47 dBm		
M2		1	5.169821 GHz	-23.51 dBm		
M3		1	5.189846 GHz	-23.53 dBm		

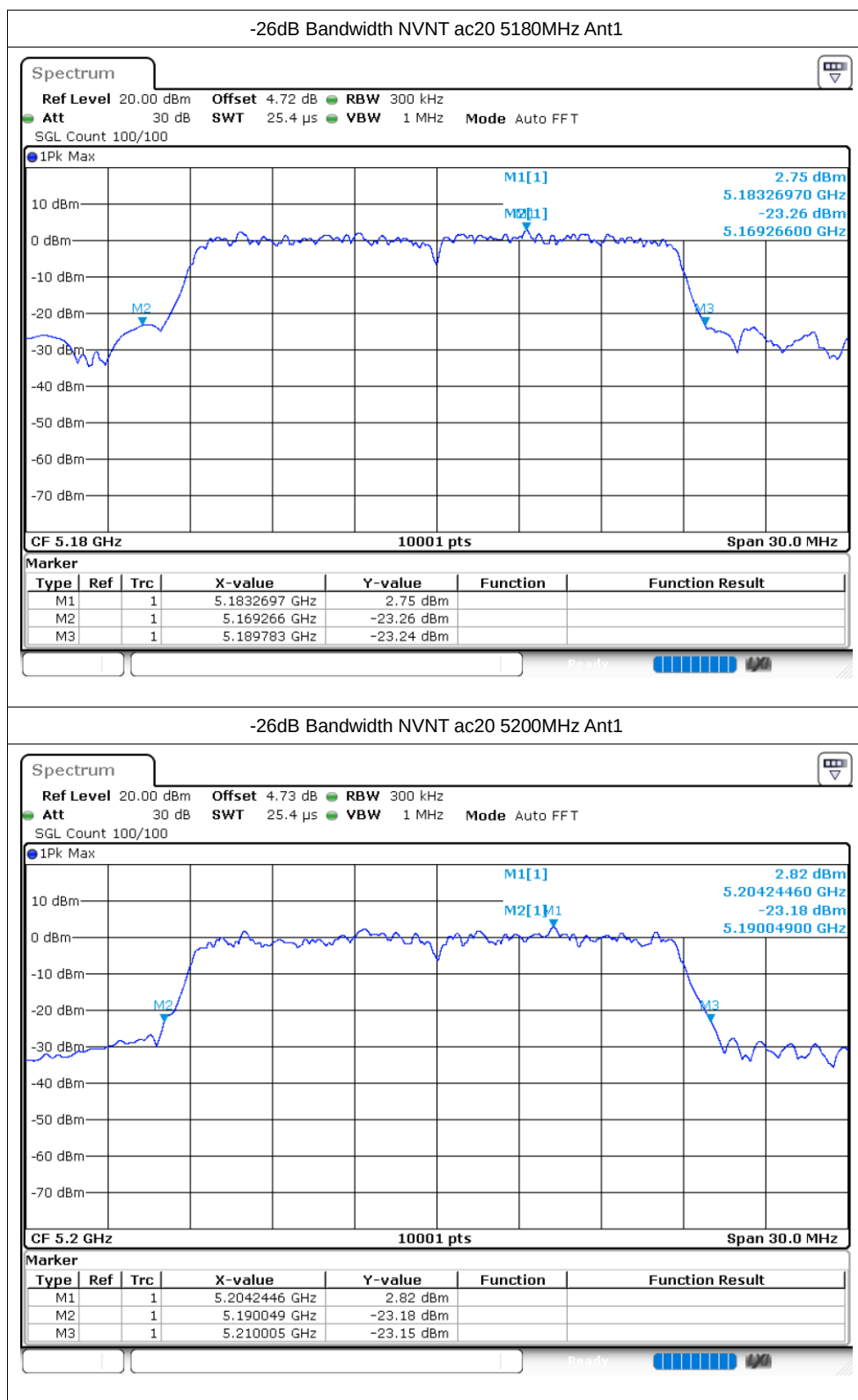


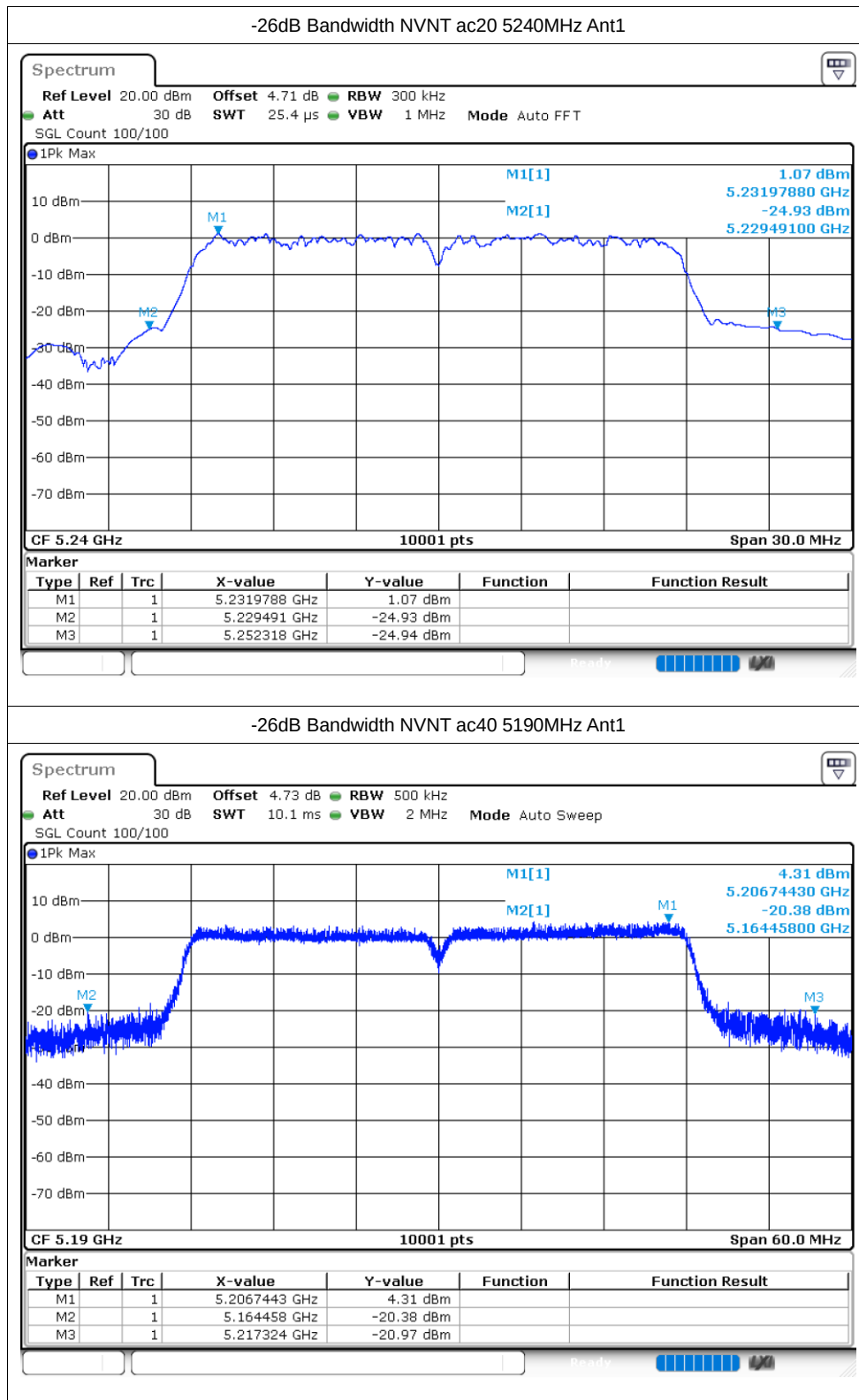
-26dB Bandwidth NVNT n40 5190MHz Ant1



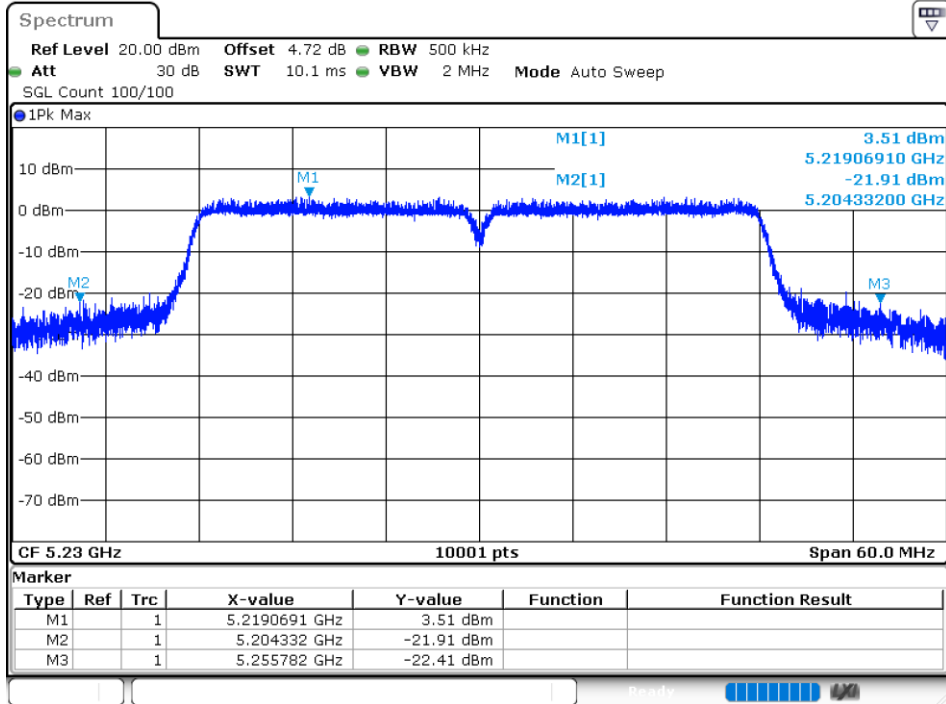
-26dB Bandwidth NVNT n40 5230MHz Ant1



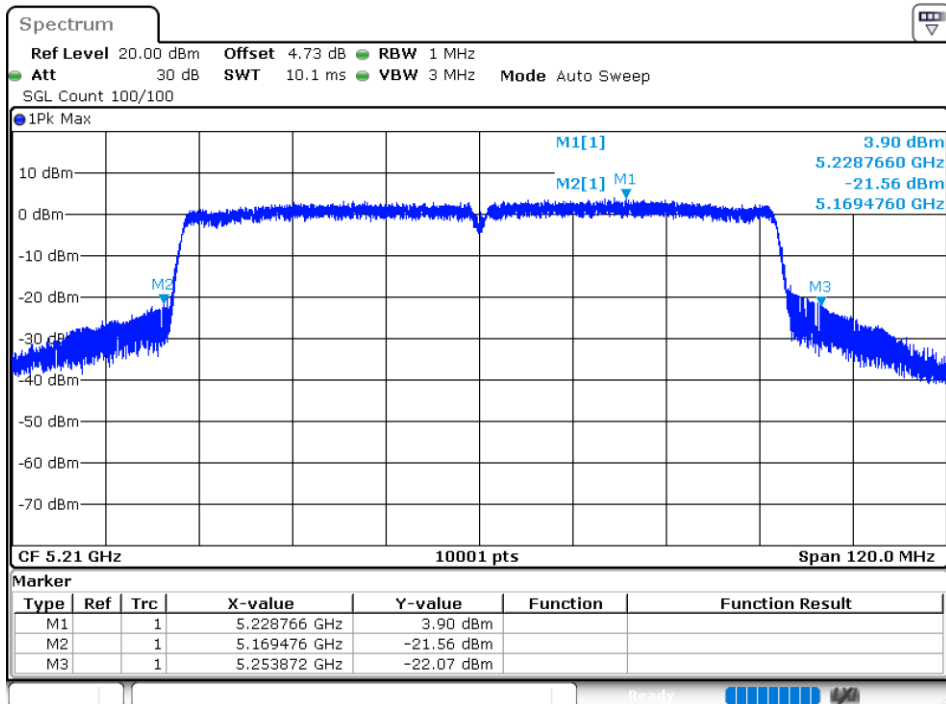




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

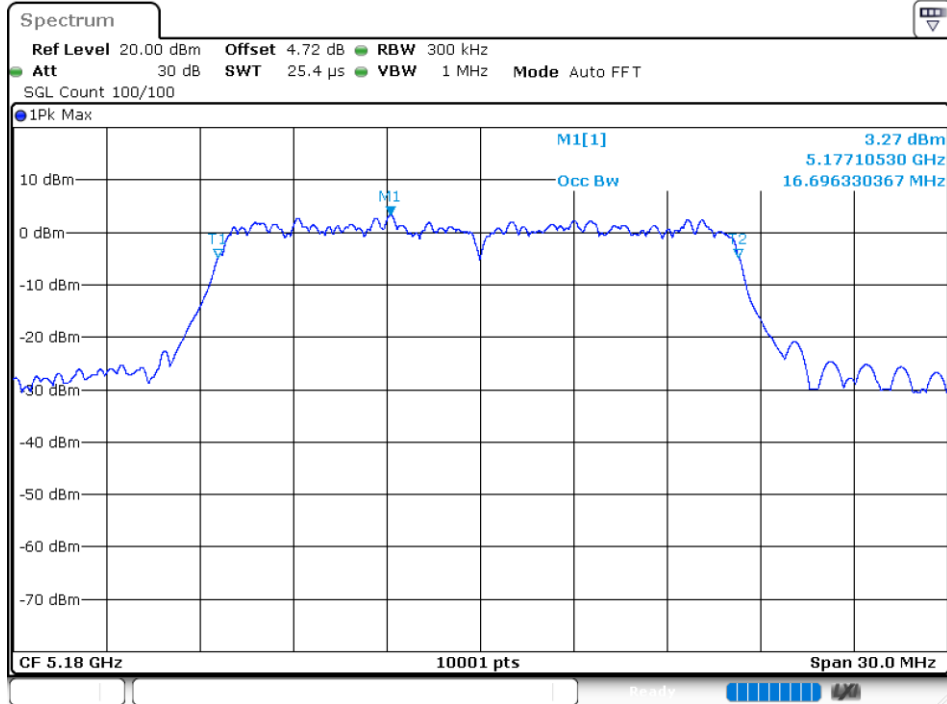


Occupied Channel Bandwidth

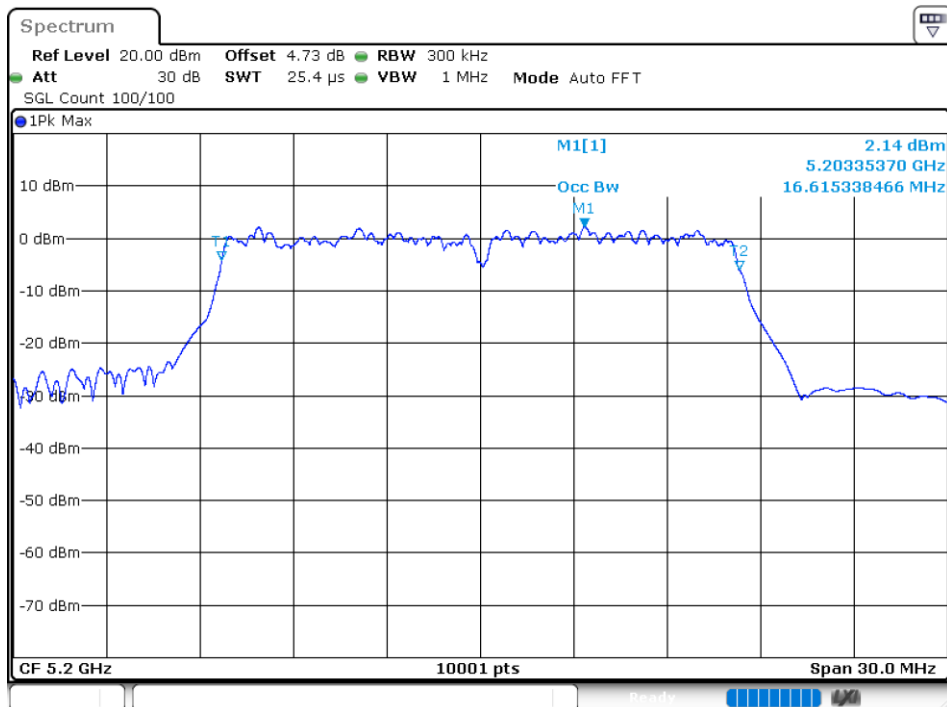
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.696
NVNT	a	5200	Ant1	16.615
NVNT	a	5240	Ant1	16.78
NVNT	n20	5180	Ant1	17.674
NVNT	n20	5200	Ant1	17.623
NVNT	n20	5240	Ant1	17.581
NVNT	n40	5190	Ant1	36.452
NVNT	n40	5230	Ant1	36.41
NVNT	ac20	5180	Ant1	17.611
NVNT	ac20	5200	Ant1	17.899
NVNT	ac20	5240	Ant1	17.731
NVNT	ac40	5190	Ant1	36.428
NVNT	ac40	5230	Ant1	36.284
NVNT	ac80	5210	Ant1	75.424

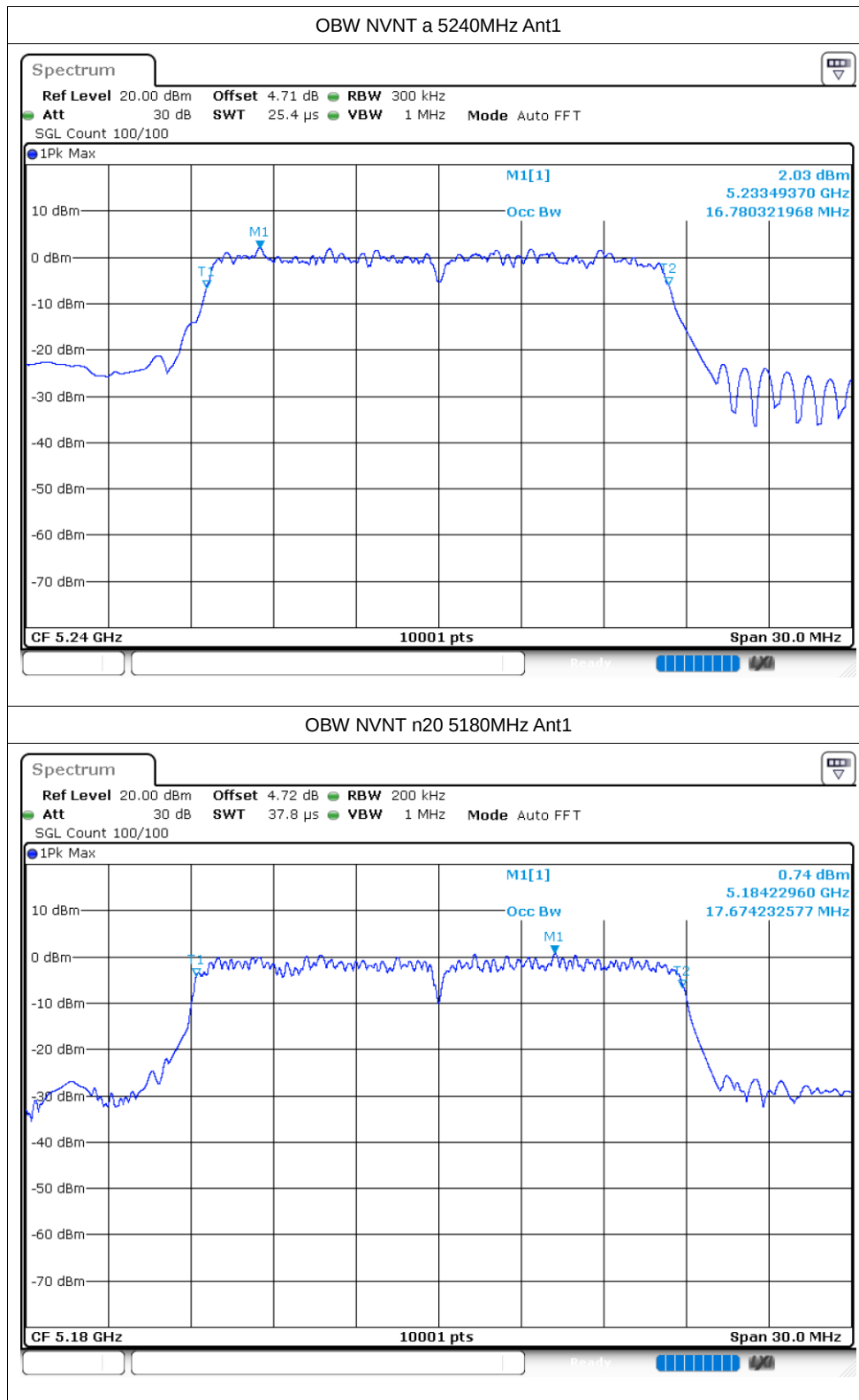
Test Graphs

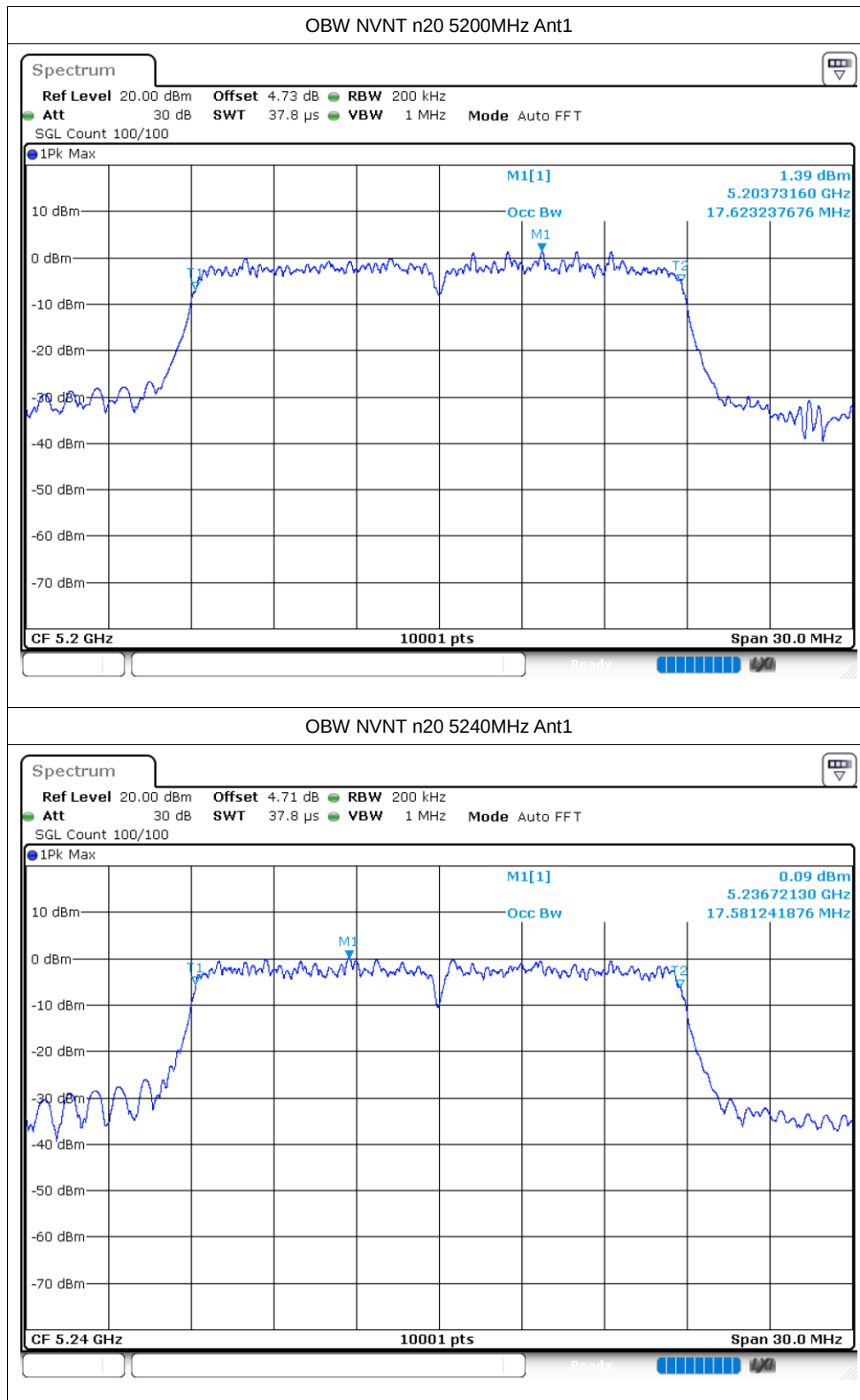
OBW NVNT a 5180MHz Ant1

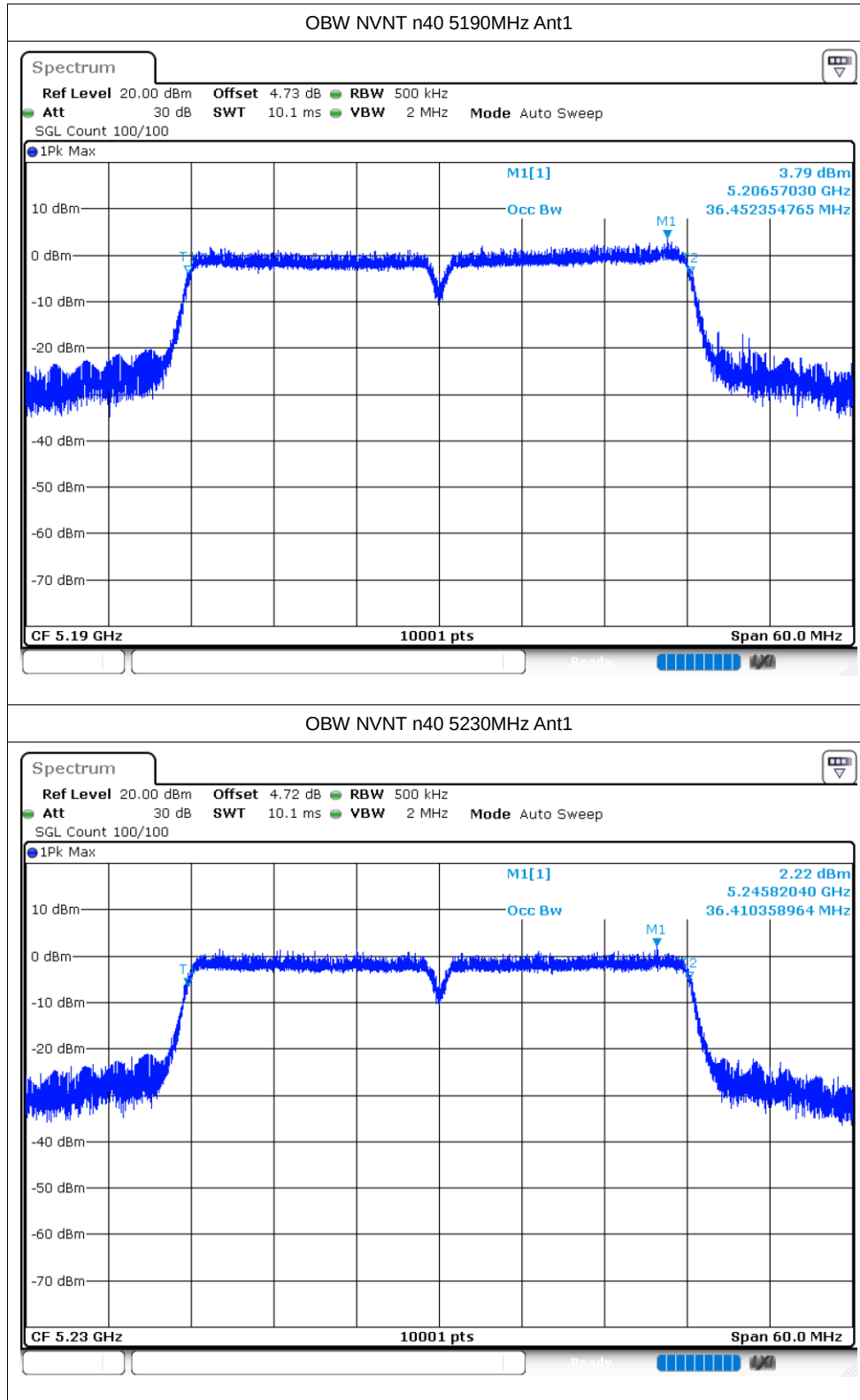


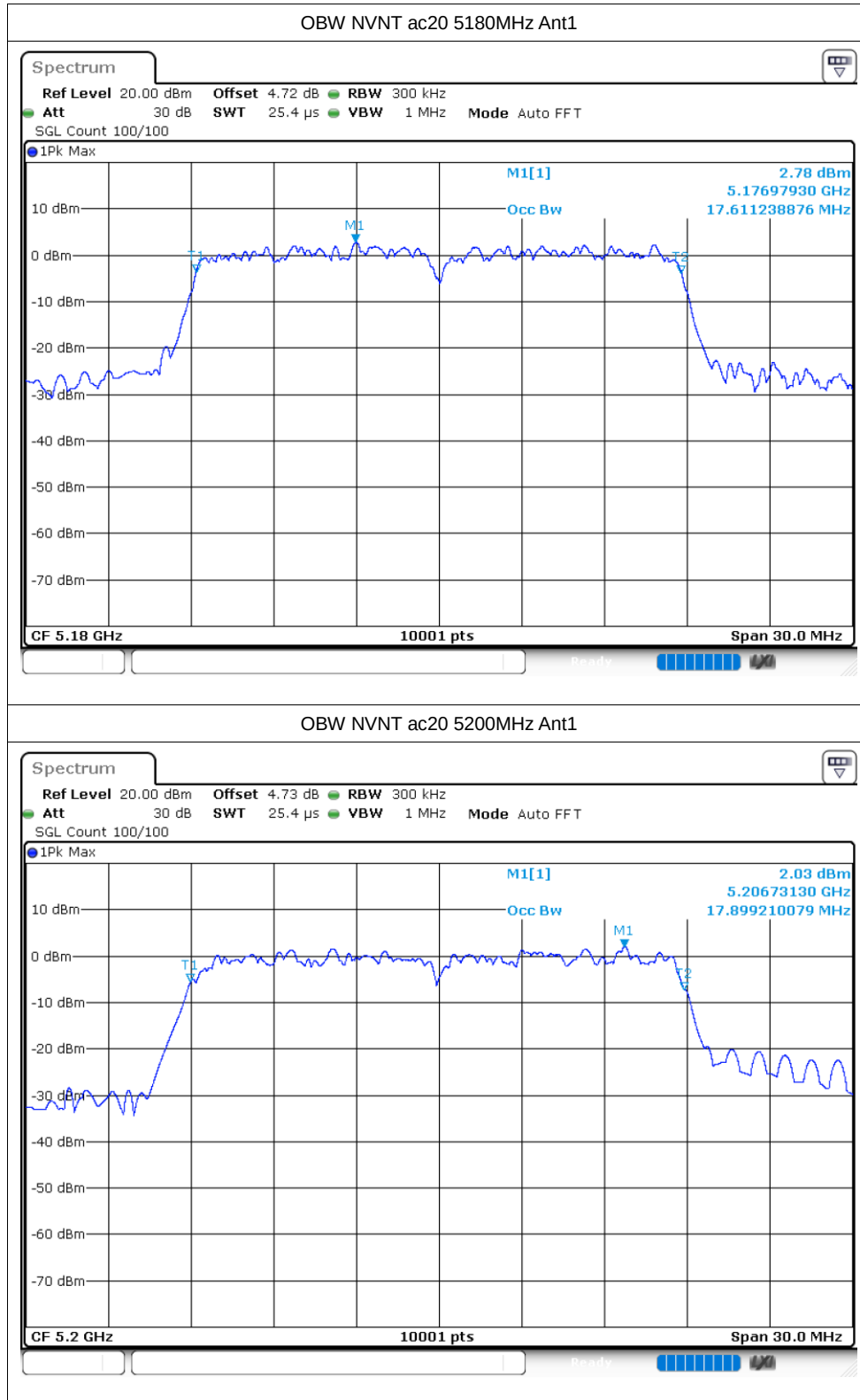
OBW NVNT a 5200MHz Ant1

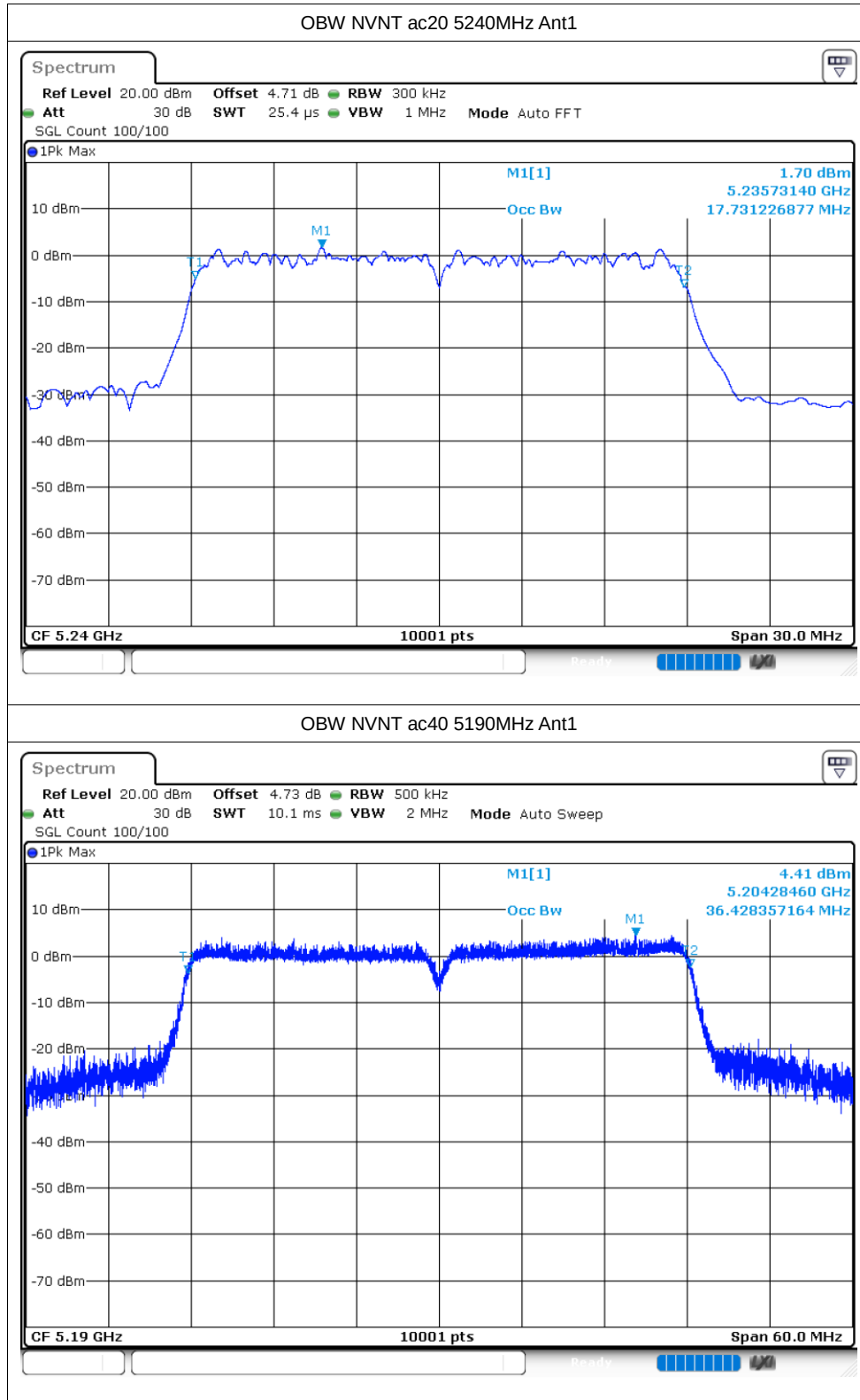


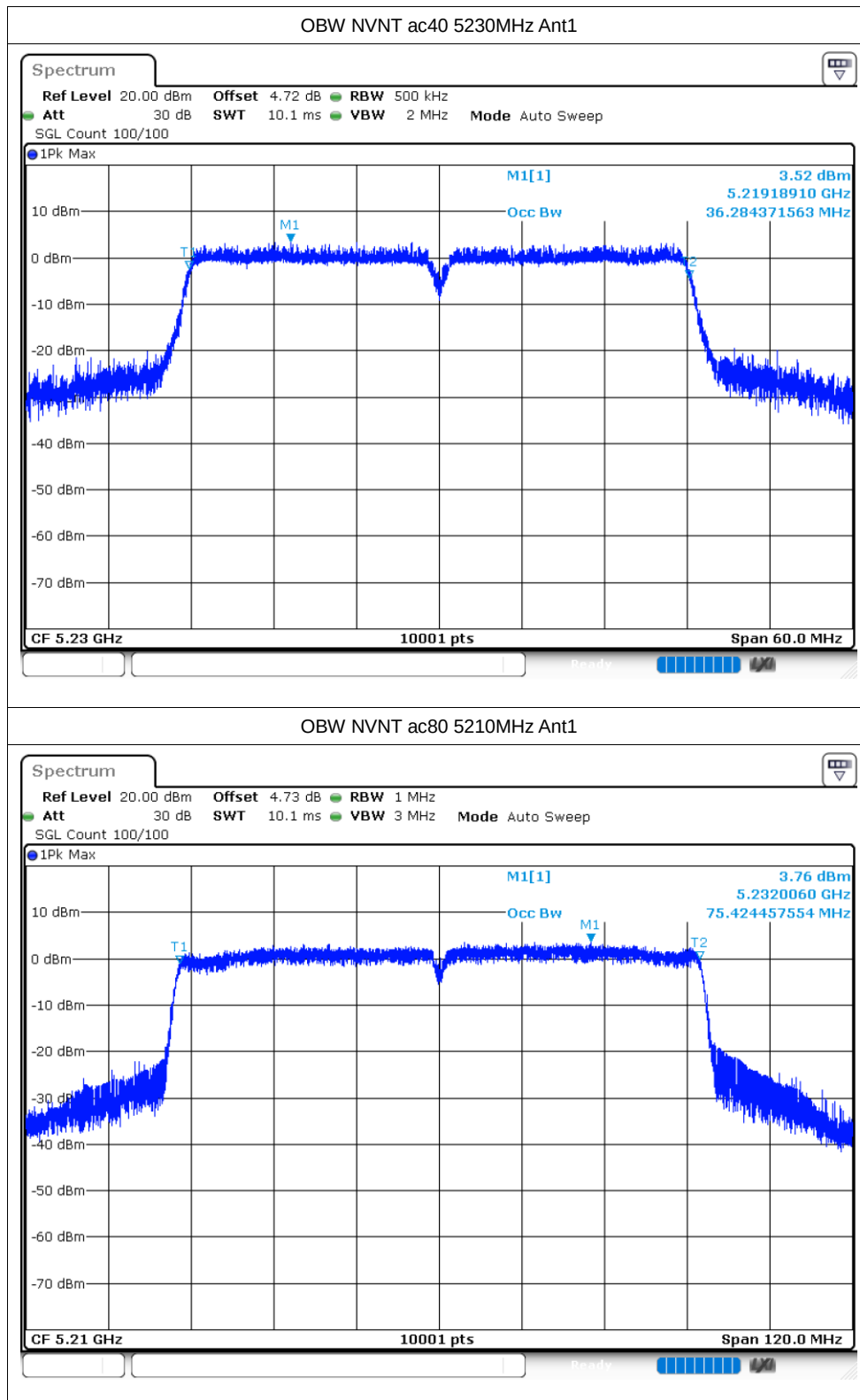










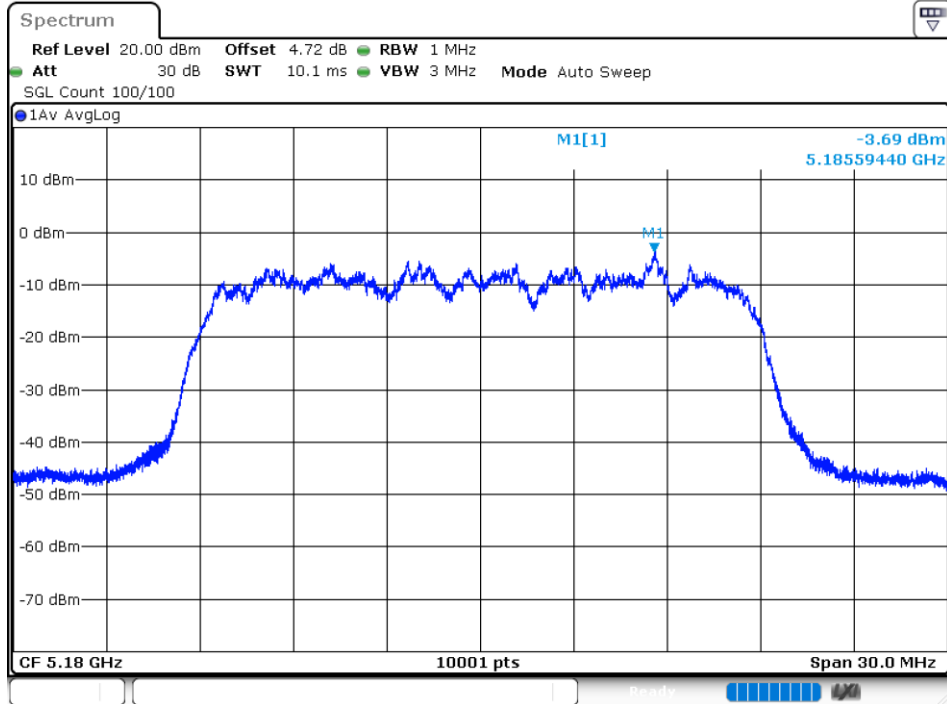


Maximum Power Spectral Density Level

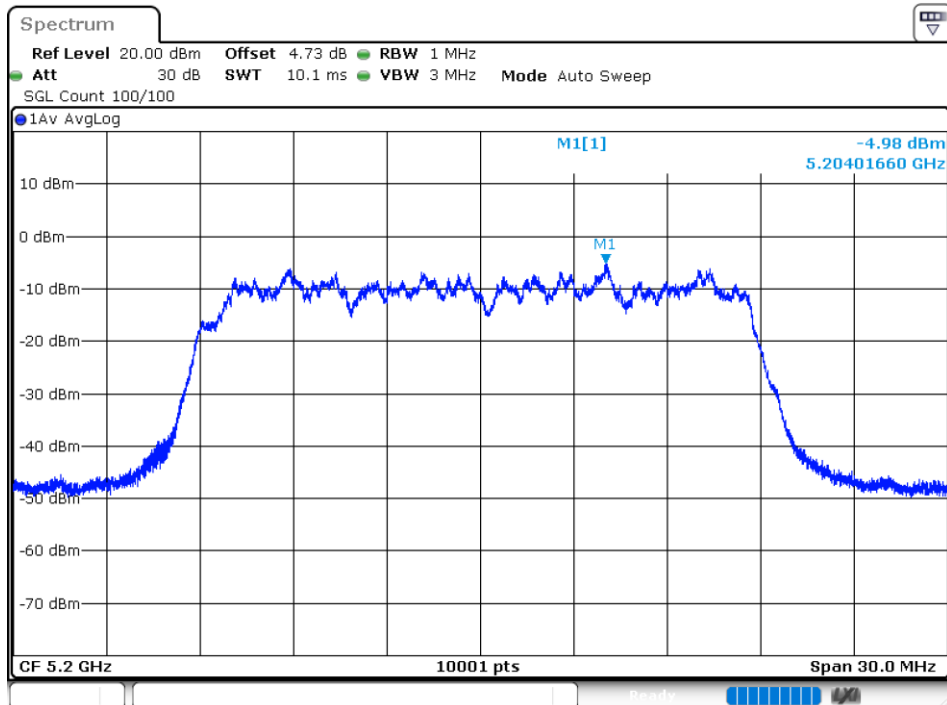
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-3.69	0.71	-2.98	11	Pass
NVNT	a	5200	Ant1	-4.98	0.58	-4.4	11	Pass
NVNT	a	5240	Ant1	-5.82	0.53	-5.29	11	Pass
NVNT	n20	5180	Ant1	-5.79	0.64	-5.15	11	Pass
NVNT	n20	5200	Ant1	-6.4	0.65	-5.75	11	Pass
NVNT	n20	5240	Ant1	-5.38	0.62	-4.76	11	Pass
NVNT	n40	5190	Ant1	-14.51	1.17	-13.34	11	Pass
NVNT	n40	5230	Ant1	-14.11	1.18	-12.93	11	Pass
NVNT	ac20	5180	Ant1	-5.06	0.62	-4.44	11	Pass
NVNT	ac20	5200	Ant1	-4.7	0.61	-4.09	11	Pass
NVNT	ac20	5240	Ant1	-4.79	0.62	-4.17	11	Pass
NVNT	ac40	5190	Ant1	-12.1	1.2	-10.9	11	Pass
NVNT	ac40	5230	Ant1	-13.63	1.16	-12.47	11	Pass
NVNT	ac80	5210	Ant1	-23.48	2.04	-21.44	11	Pass

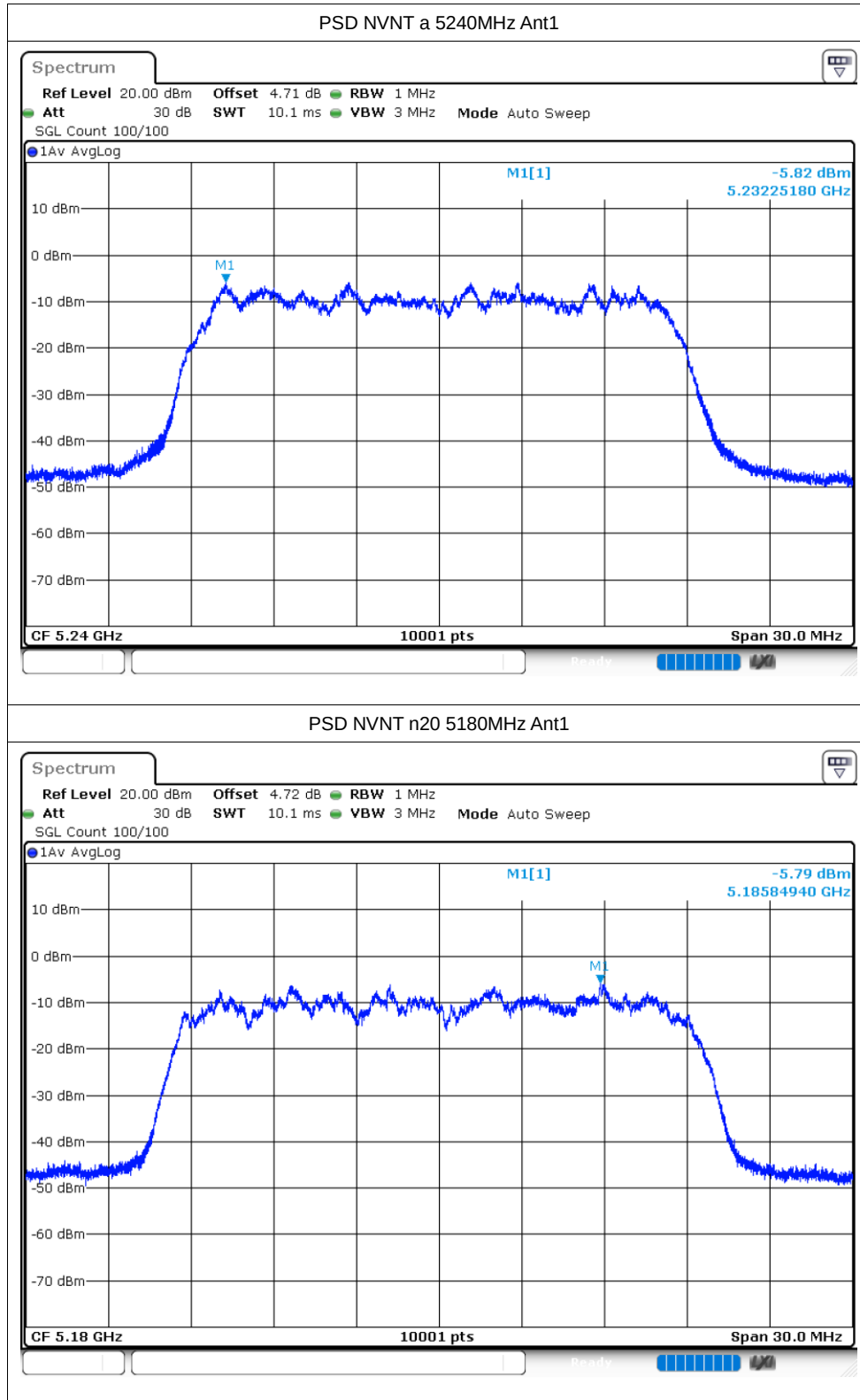
Test Graphs

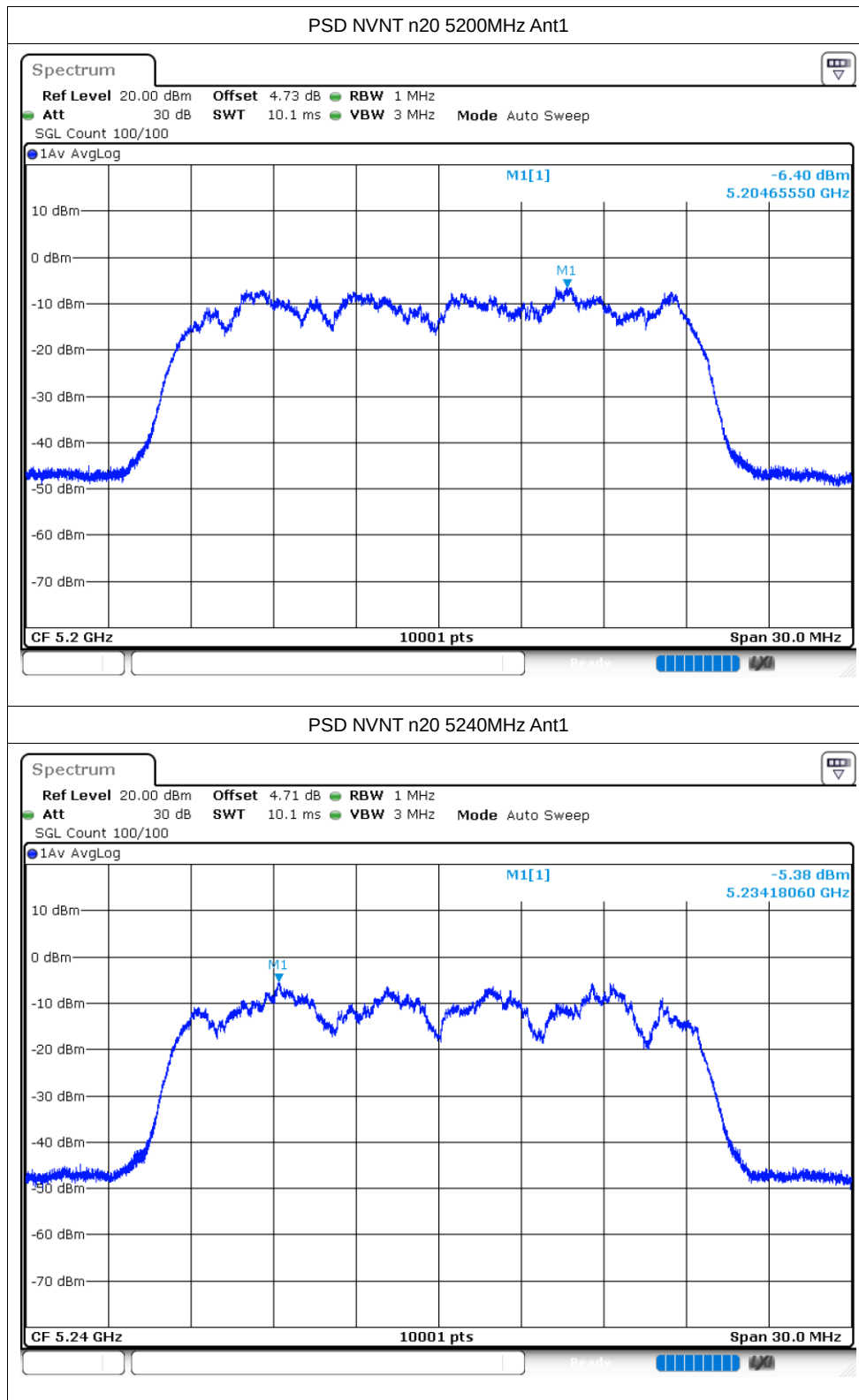
PSD NVNT a 5180MHz Ant1

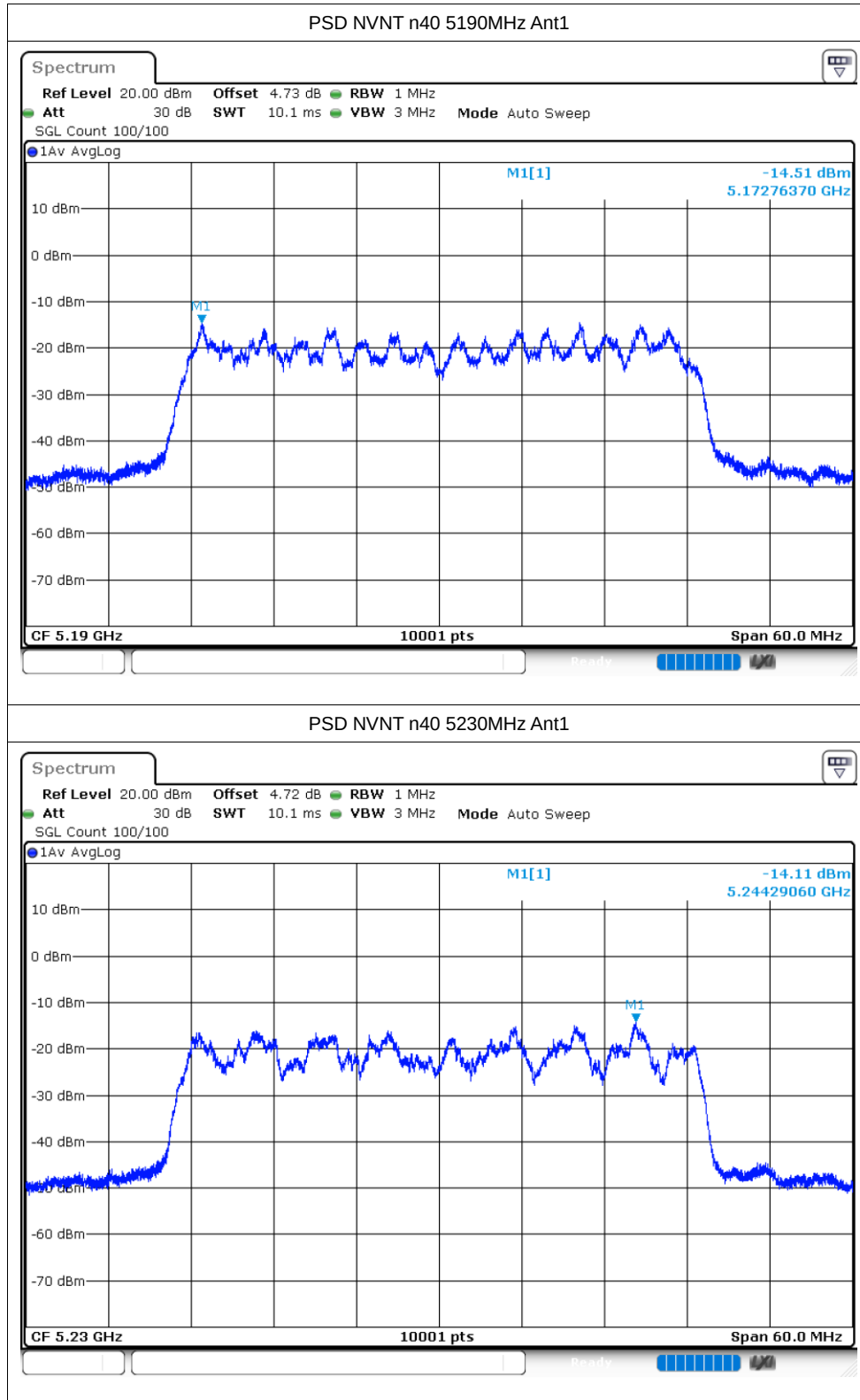


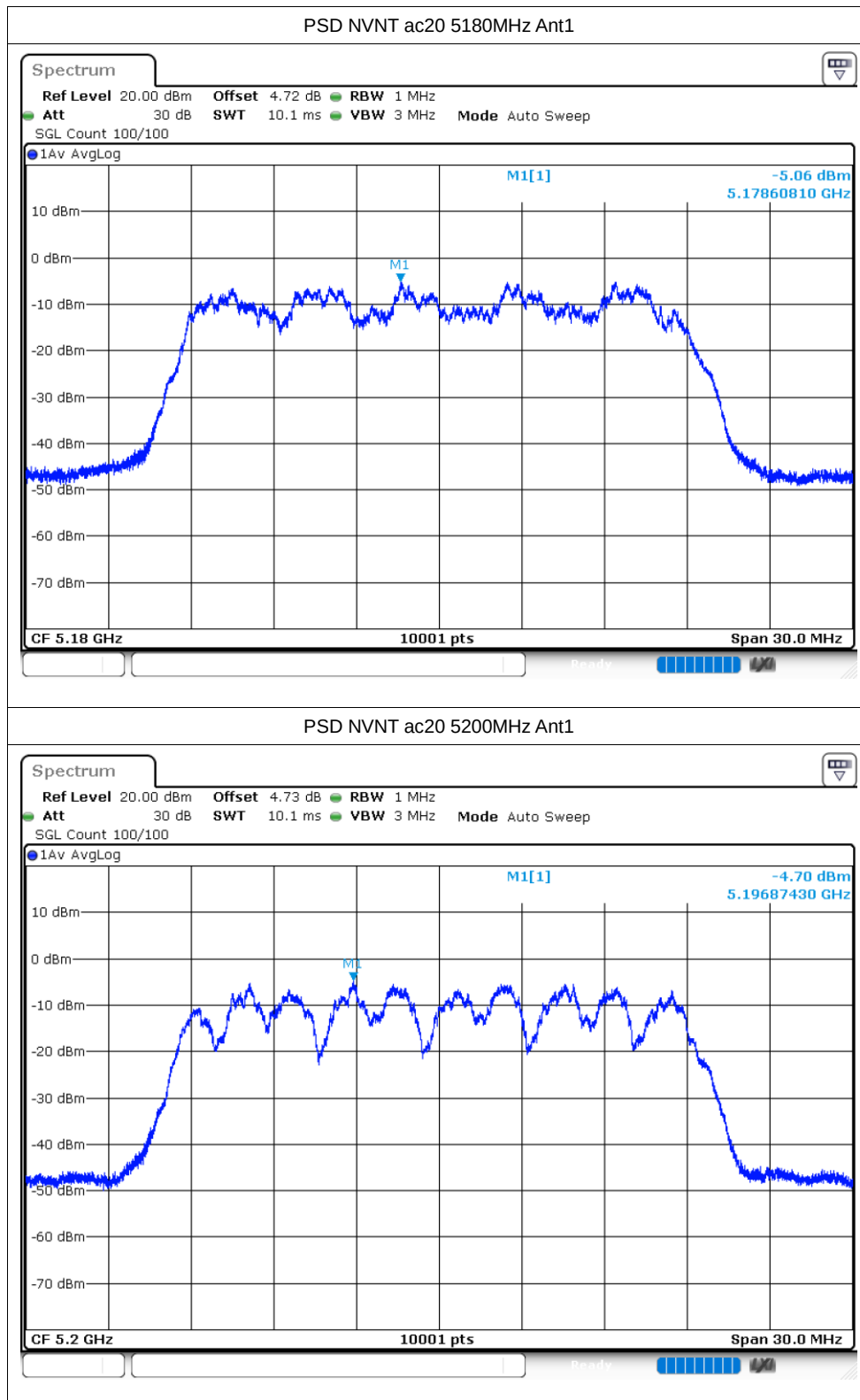
PSD NVNT a 5200MHz Ant1

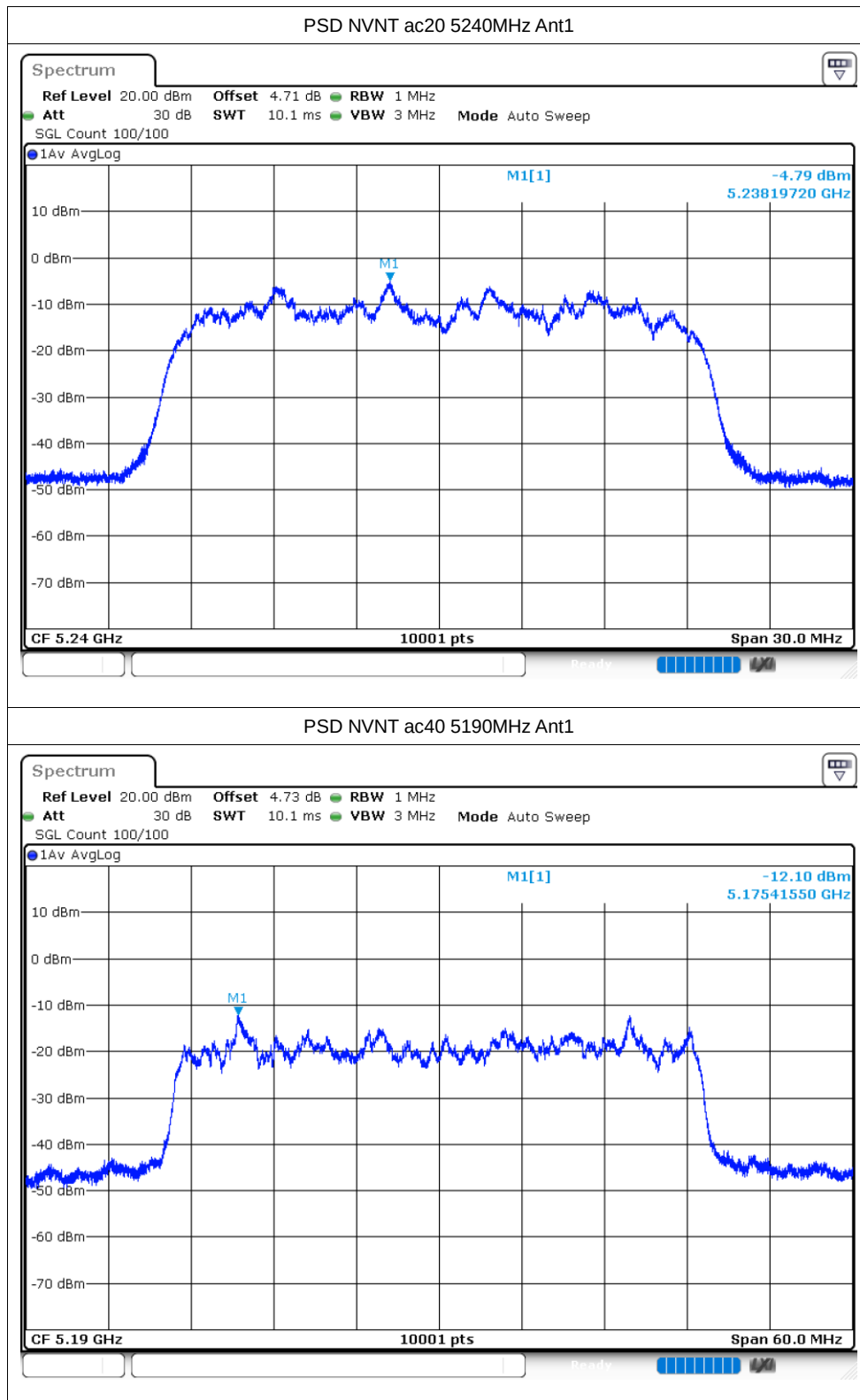


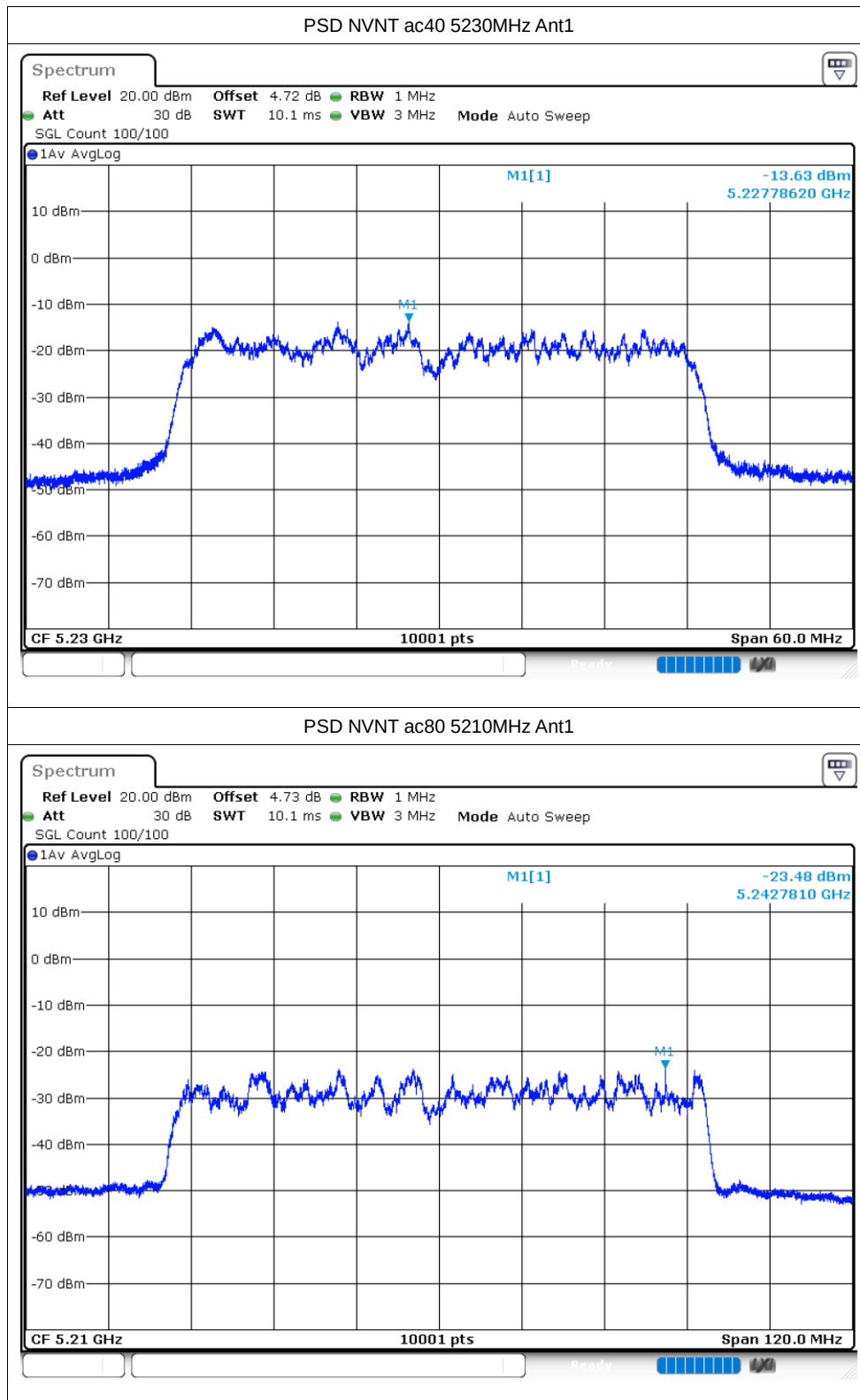












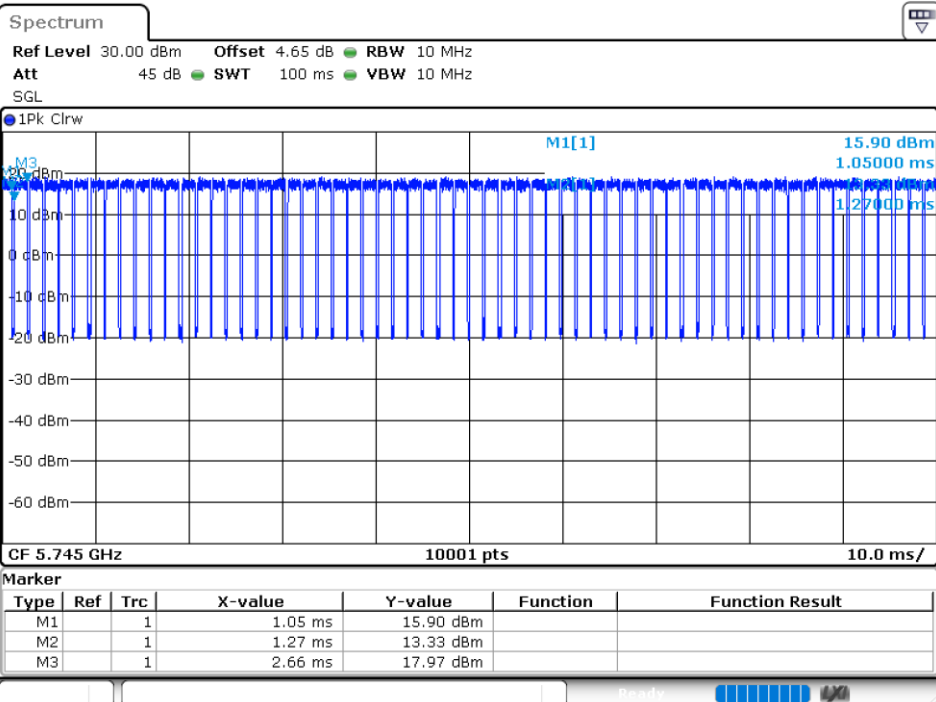
5.8G WIFI

Duty Cycle

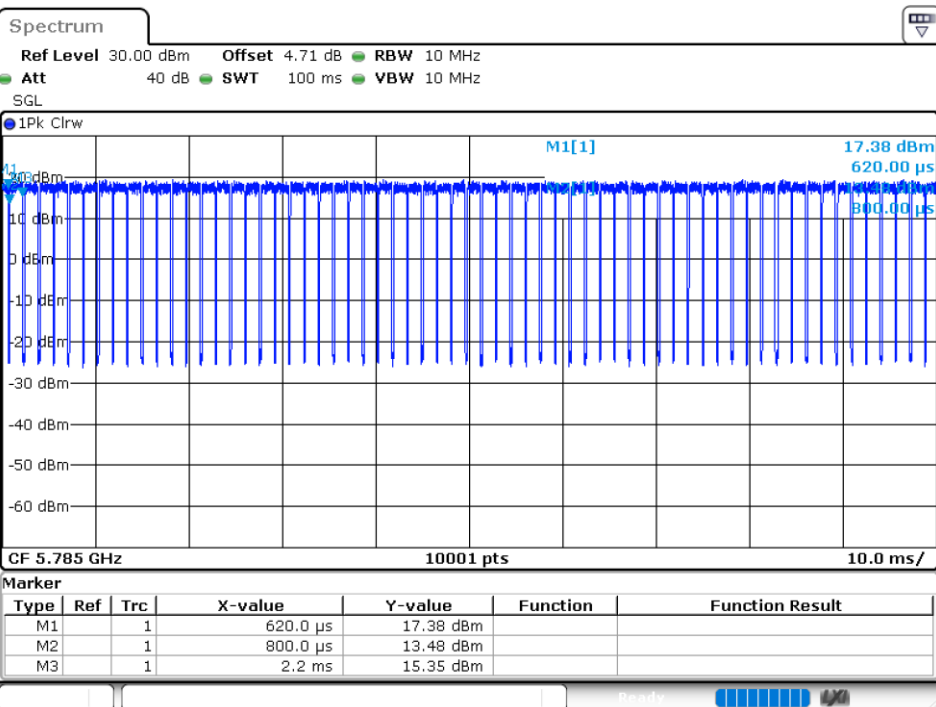
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	86.44	0.63	0.72
NVNT	a	5785	Ant1	88.66	0.52	0.71
NVNT	a	5825	Ant1	98.45	0.07	0.62
NVNT	n20	5745	Ant1	86.8	0.61	0.85
NVNT	n20	5785	Ant1	86.68	0.62	0.85
NVNT	n20	5825	Ant1	86.99	0.61	0.85
NVNT	n40	5755	Ant1	76.9	1.14	1.69
NVNT	n40	5795	Ant1	96.56	0.15	14.29
NVNT	ac20	5745	Ant1	86.82	0.61	0.85
NVNT	ac20	5785	Ant1	86.5	0.63	0.84
NVNT	ac20	5825	Ant1	86.86	0.61	0.85
NVNT	ac40	5755	Ant1	76.57	1.16	1.69
NVNT	ac40	5795	Ant1	76.53	1.16	1.69
NVNT	ac80	5775	Ant1	63.26	1.99	3.33

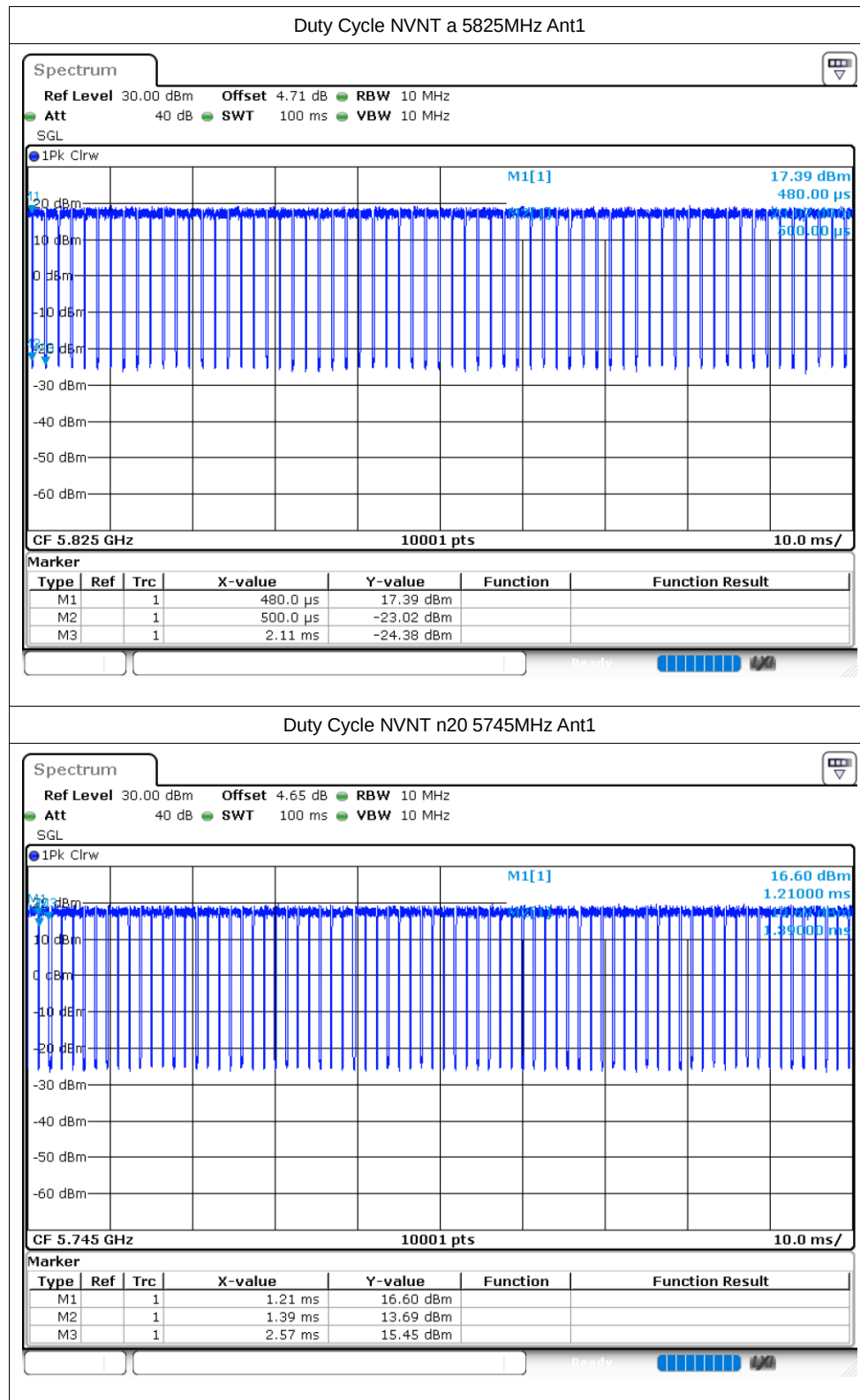
Test Graphs

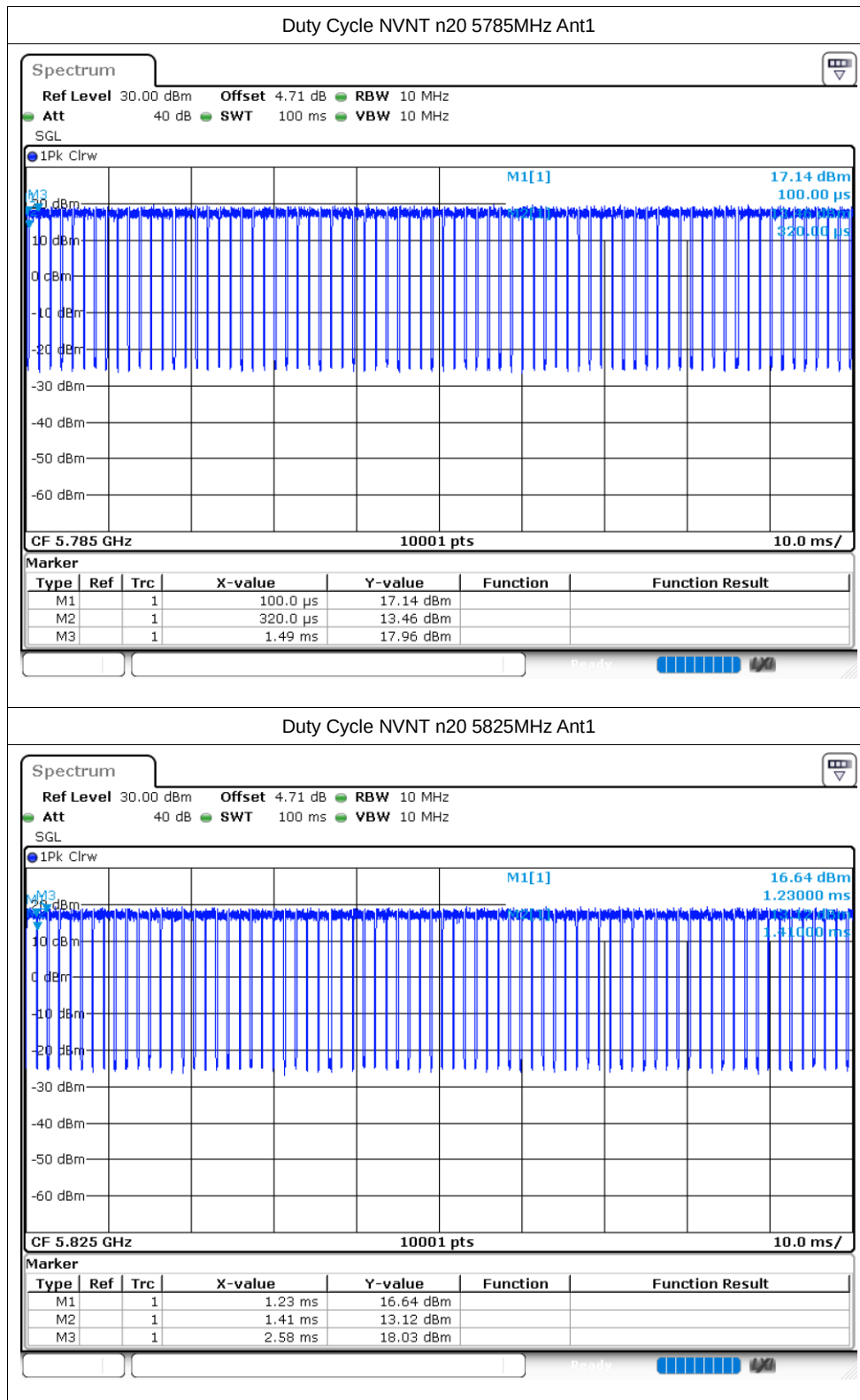
Duty Cycle NVNT a 5745MHz Ant1

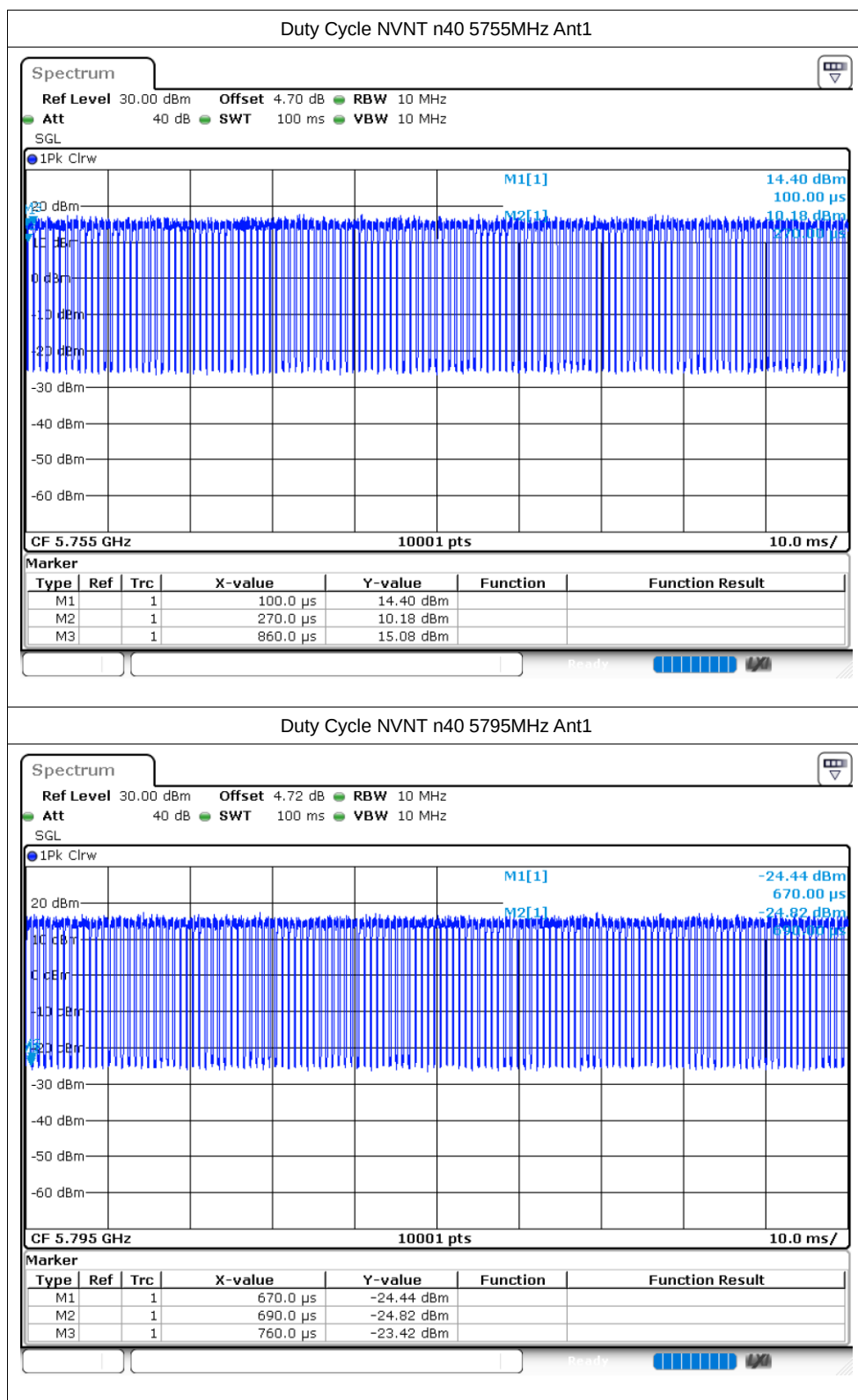


Duty Cycle NVNT a 5785MHz Ant1

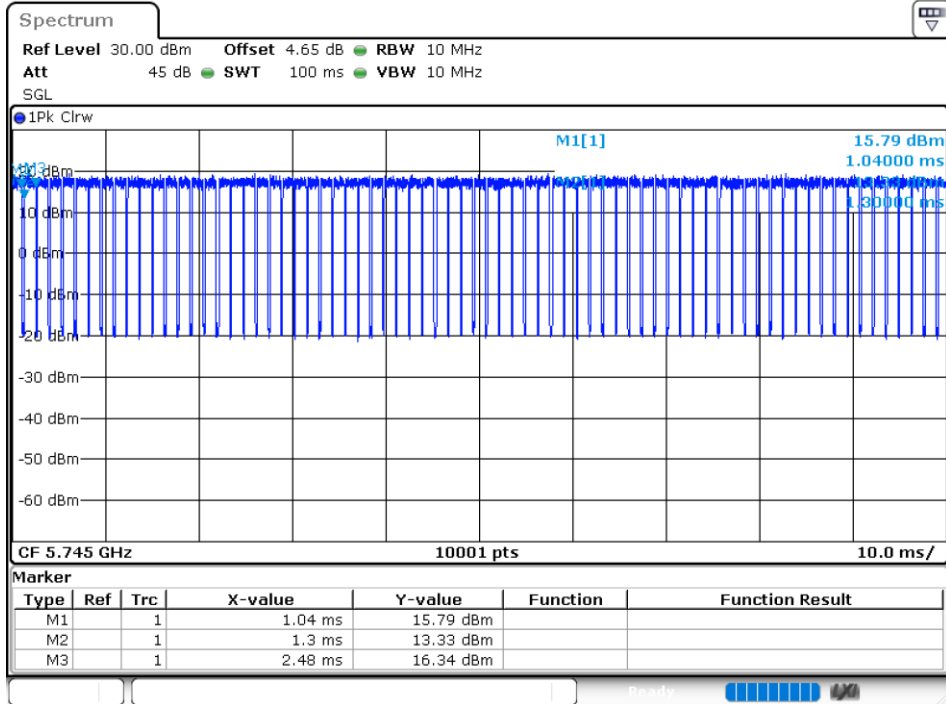




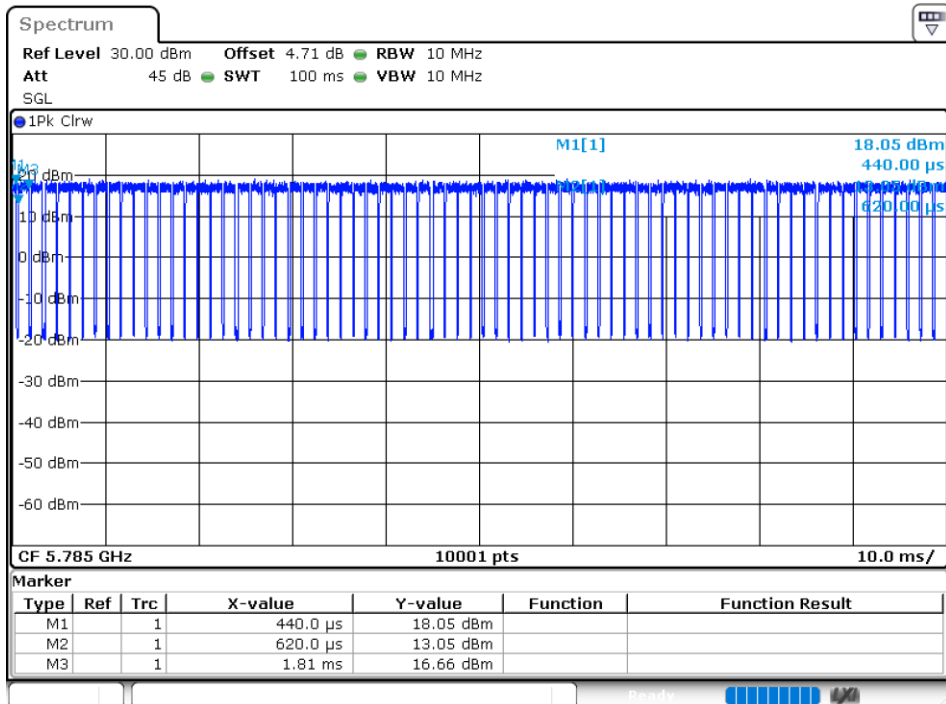




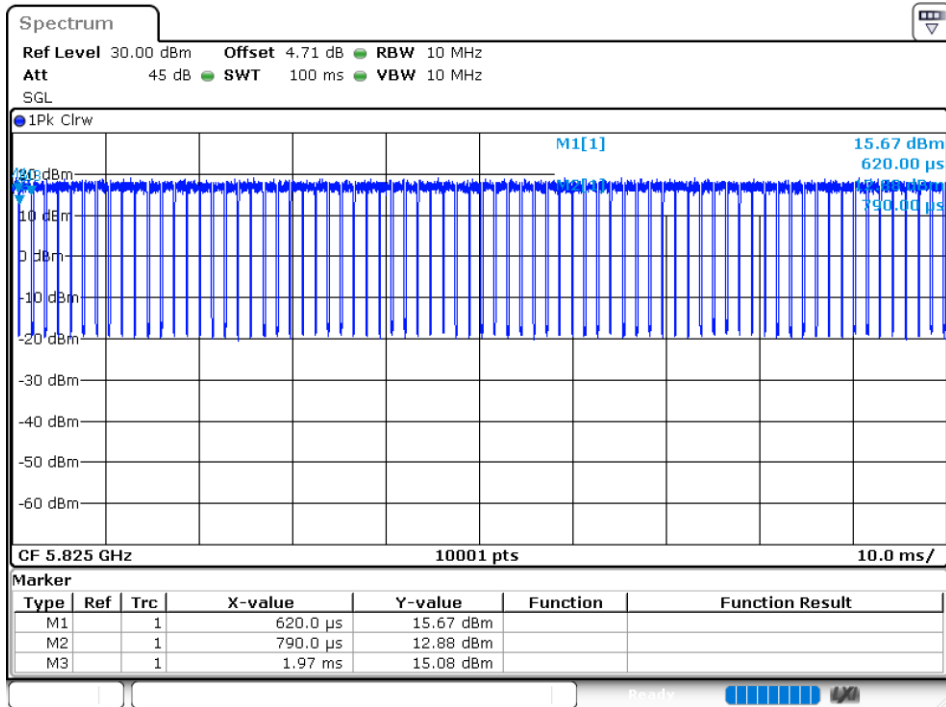
Duty Cycle NVNT ac20 5745MHz Ant1



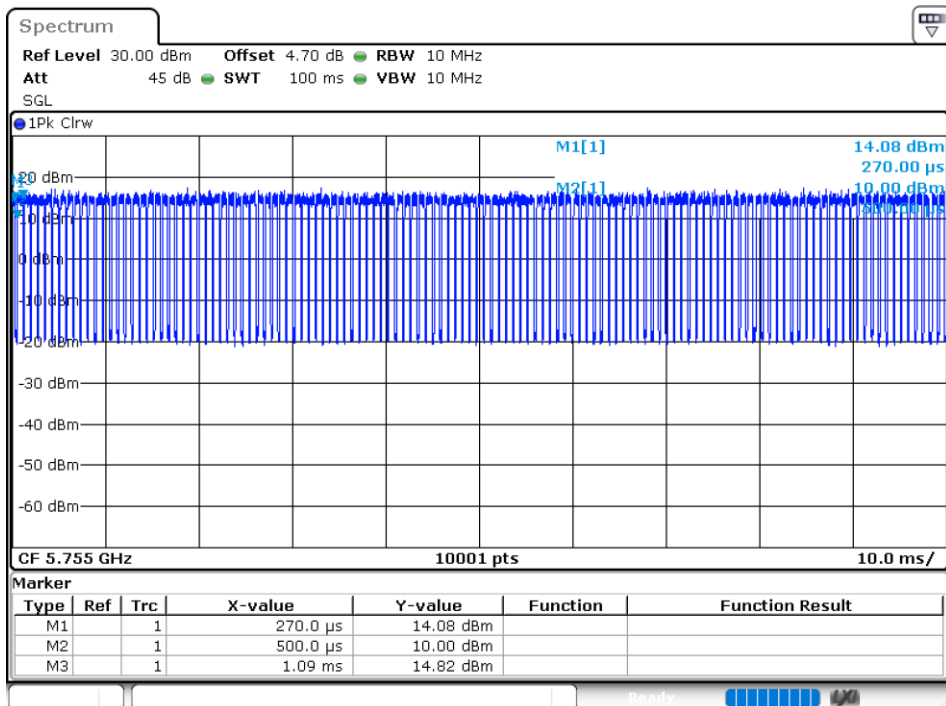
Duty Cycle NVNT ac20 5785MHz Ant1

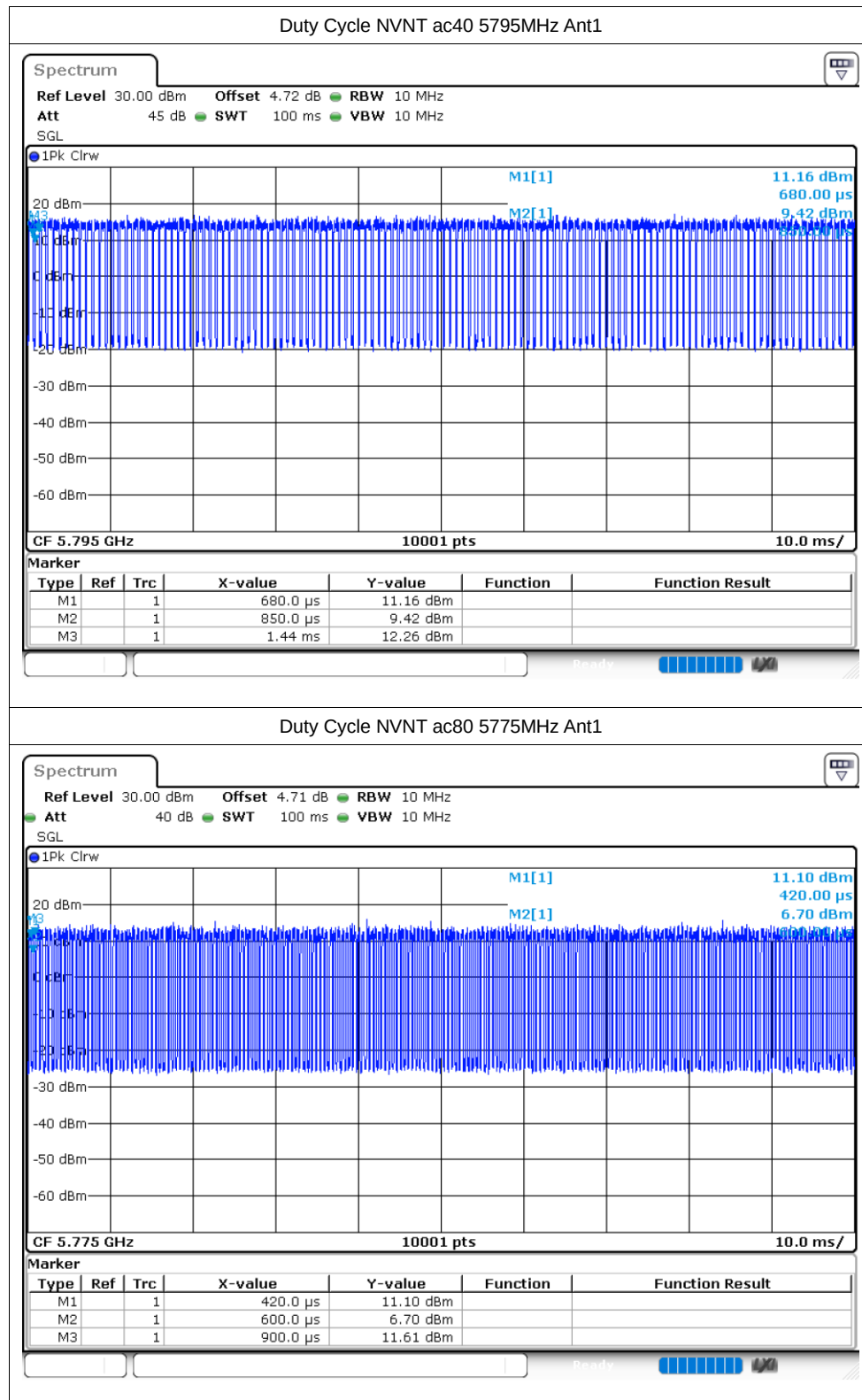


Duty Cycle NVNT ac20 5825MHz Ant1



Duty Cycle NVNT ac40 5755MHz Ant1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.98	30	Pass
NVNT	a	5785	Ant1	13.39	30	Pass
NVNT	a	5825	Ant1	13.08	30	Pass
NVNT	n20	5745	Ant1	12.98	30	Pass
NVNT	n20	5785	Ant1	13.26	30	Pass
NVNT	n20	5825	Ant1	13.26	30	Pass
NVNT	n40	5755	Ant1	13.43	30	Pass
NVNT	n40	5795	Ant1	13.55	30	Pass
NVNT	ac20	5745	Ant1	13.11	30	Pass
NVNT	ac20	5785	Ant1	13.45	30	Pass
NVNT	ac20	5825	Ant1	13.31	30	Pass
NVNT	ac40	5755	Ant1	13.35	30	Pass
NVNT	ac40	5795	Ant1	13.65	30	Pass
NVNT	ac80	5775	Ant1	13.5	30	Pass

Note: The Duty Cycle factor has already been included.

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.554	0.5	Pass
NVNT	a	5785	Ant1	16.338	0.5	Pass
NVNT	a	5825	Ant1	16.512	0.5	Pass
NVNT	n20	5745	Ant1	17.28	0.5	Pass
NVNT	n20	5785	Ant1	17.286	0.5	Pass
NVNT	n20	5825	Ant1	17.631	0.5	Pass
NVNT	n40	5755	Ant1	36.3	0.5	Pass
NVNT	n40	5795	Ant1	36.462	0.5	Pass
NVNT	ac20	5745	Ant1	17.538	0.5	Pass
NVNT	ac20	5785	Ant1	17.409	0.5	Pass
NVNT	ac20	5825	Ant1	17.376	0.5	Pass
NVNT	ac40	5755	Ant1	36.006	0.5	Pass
NVNT	ac40	5795	Ant1	36.15	0.5	Pass
NVNT	ac80	5775	Ant1	75.552	0.5	Pass