

5.2G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.57	0.11	0.72
NVNT	a	5200	Ant1	97.59	0.11	0.71
NVNT	a	5240	Ant1	97.62	0.1	0.72
NVNT	n20	5180	Ant1	97.41	0.11	0.77
NVNT	n20	5200	Ant1	97.43	0.11	0.77
NVNT	n20	5240	Ant1	97.4	0.11	0.77
NVNT	n40	5190	Ant1	95.04	0.22	1.56
NVNT	n40	5230	Ant1	95.1	0.22	1.54
NVNT	ac20	5180	Ant1	97.46	0.11	0.76
NVNT	ac20	5200	Ant1	97.44	0.11	0.76
NVNT	ac20	5240	Ant1	97.44	0.11	0.76
NVNT	ac40	5190	Ant1	95.1	0.22	1.54
NVNT	ac40	5230	Ant1	95.09	0.22	1.54
NVNT	ac80	5210	Ant1	90.94	0.41	3.03

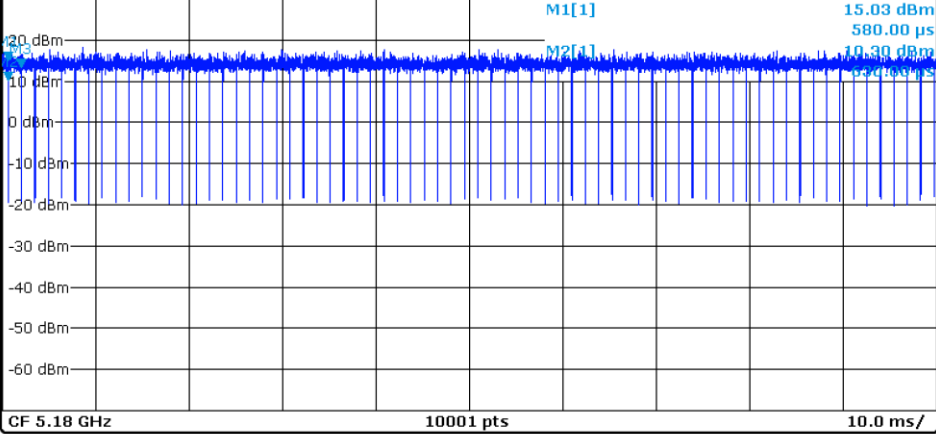
Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 3.96 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

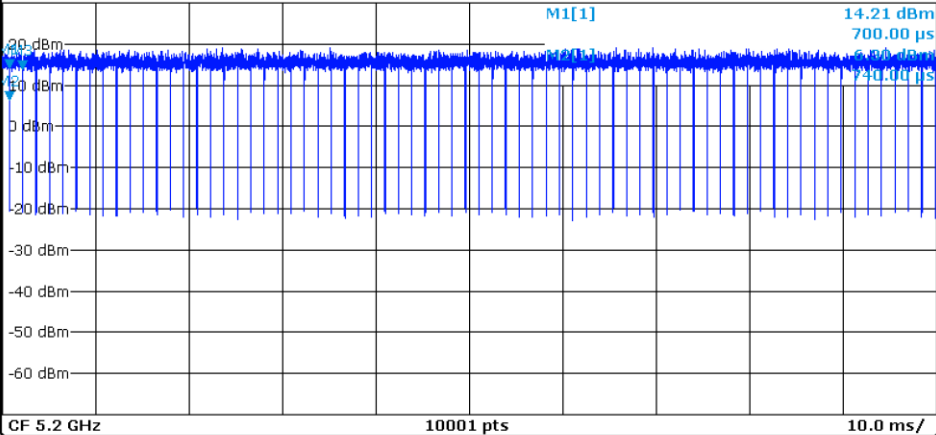
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		580.0 μ s	15.03 dBm		
M2	1		630.0 μ s	10.30 dBm		
M3	1		2.02 ms	13.36 dBm		

Duty Cycle NVNT a 5200MHz Ant1

Spectrum

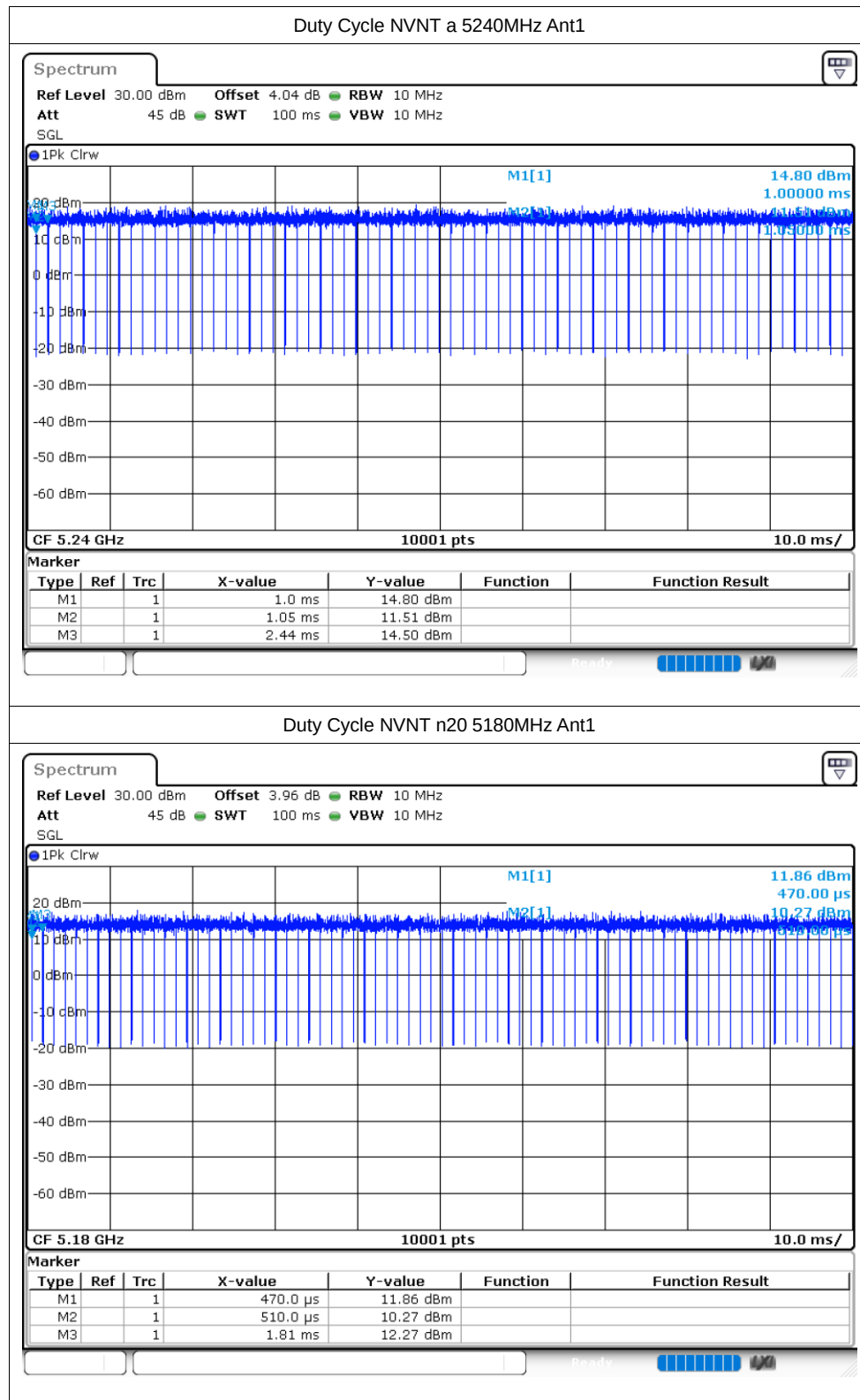
Ref Level 30.00 dBm Offset 4.02 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

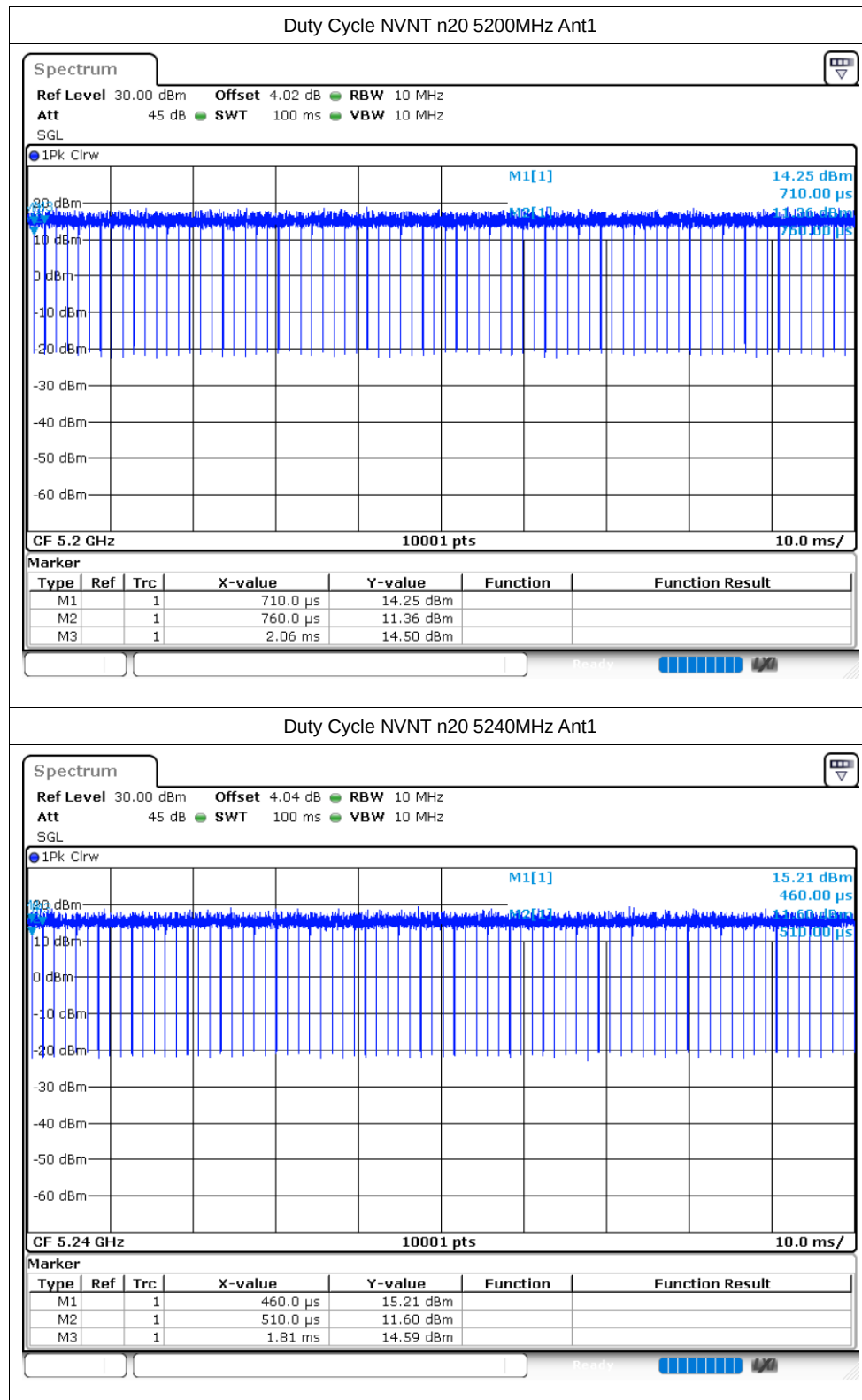
1Pk Clrw

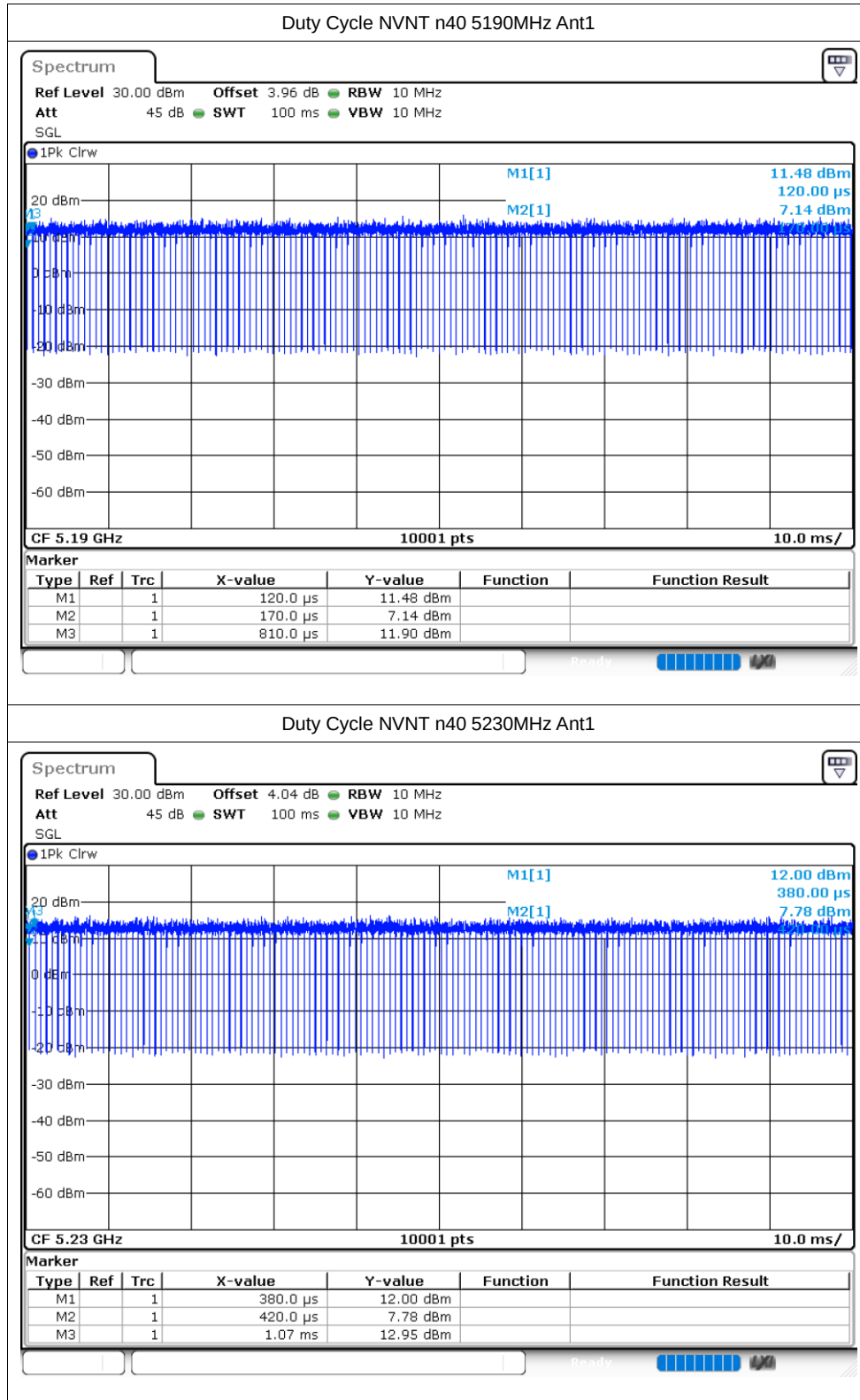


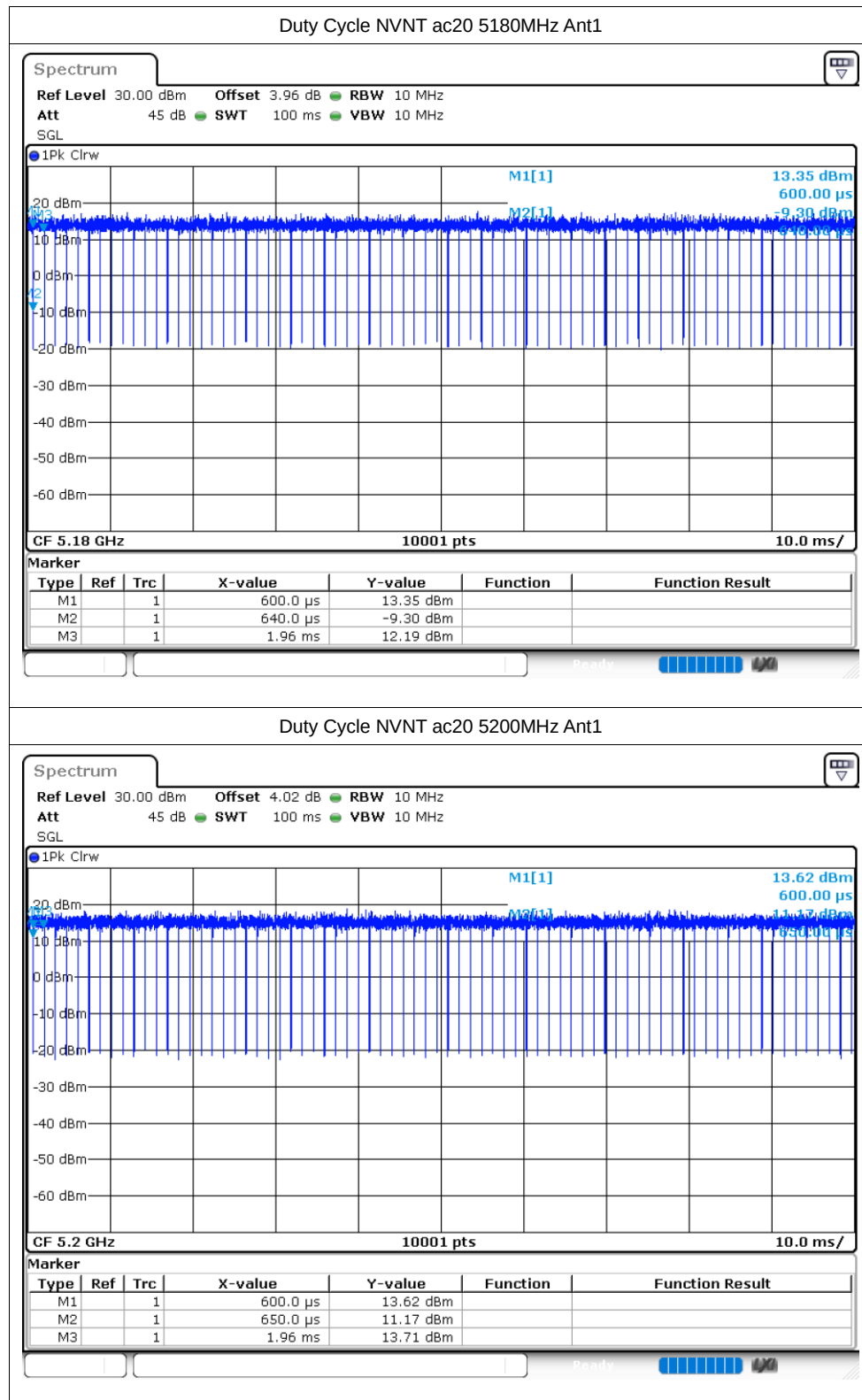
Marker

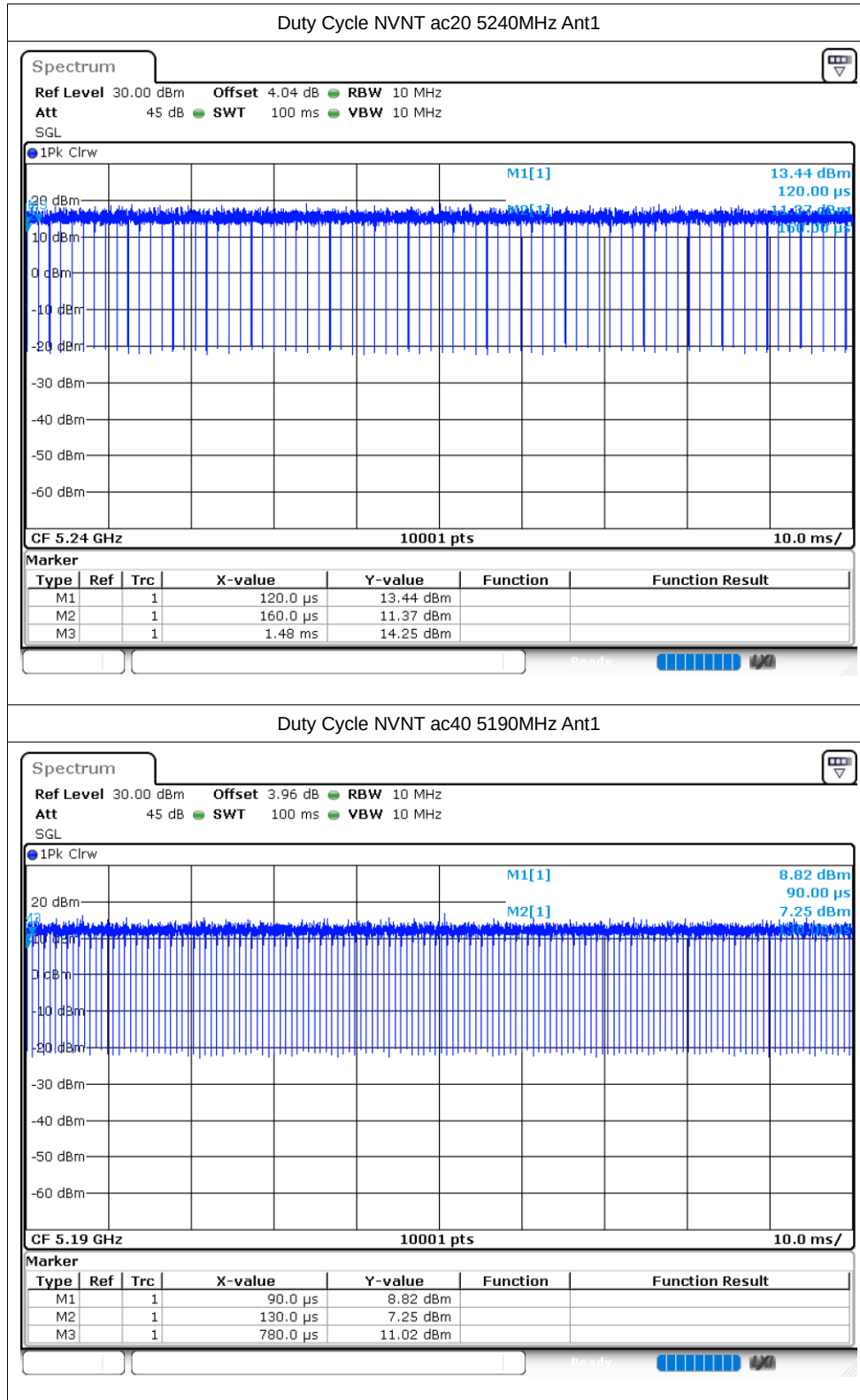
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		700.0 μ s	14.21 dBm		
M2	1		740.0 μ s	6.30 dBm		
M3	1		2.14 ms	14.01 dBm		

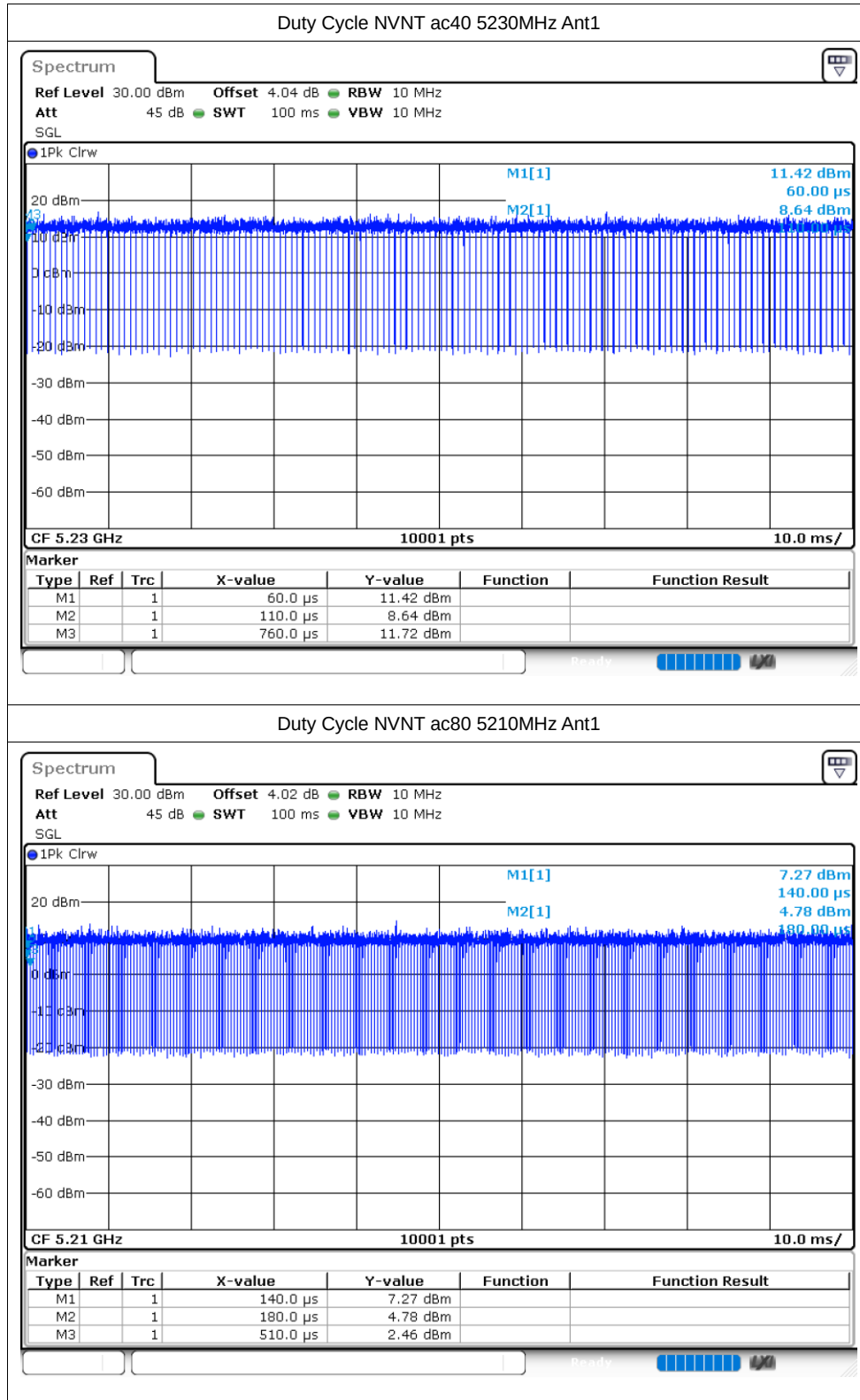












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.71	24	Pass
NVNT	a	5200	Ant1	10.95	24	Pass
NVNT	a	5240	Ant1	10.16	24	Pass
NVNT	n20	5180	Ant1	10.47	24	Pass
NVNT	n20	5200	Ant1	10.35	24	Pass
NVNT	n20	5240	Ant1	10.4	24	Pass
NVNT	n40	5190	Ant1	10.21	24	Pass
NVNT	n40	5230	Ant1	10.02	24	Pass
NVNT	ac20	5180	Ant1	10.59	24	Pass
NVNT	ac20	5200	Ant1	10.72	24	Pass
NVNT	ac20	5240	Ant1	10.56	24	Pass
NVNT	ac40	5190	Ant1	10.55	24	Pass
NVNT	ac40	5230	Ant1	10.48	24	Pass
NVNT	ac80	5210	Ant1	10.36	24	Pass

Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.139	Pass
NVNT	a	5200	Ant1	20.058	Pass
NVNT	a	5240	Ant1	19.986	Pass
NVNT	n20	5180	Ant1	20.475	Pass
NVNT	n20	5200	Ant1	20.043	Pass
NVNT	n20	5240	Ant1	20.304	Pass
NVNT	n40	5190	Ant1	40.392	Pass
NVNT	n40	5230	Ant1	40.38	Pass
NVNT	ac20	5180	Ant1	20.373	Pass
NVNT	ac20	5200	Ant1	19.866	Pass
NVNT	ac20	5240	Ant1	20.052	Pass
NVNT	ac40	5190	Ant1	40.986	Pass
NVNT	ac40	5230	Ant1	40.668	Pass
NVNT	ac80	5210	Ant1	80.964	Pass

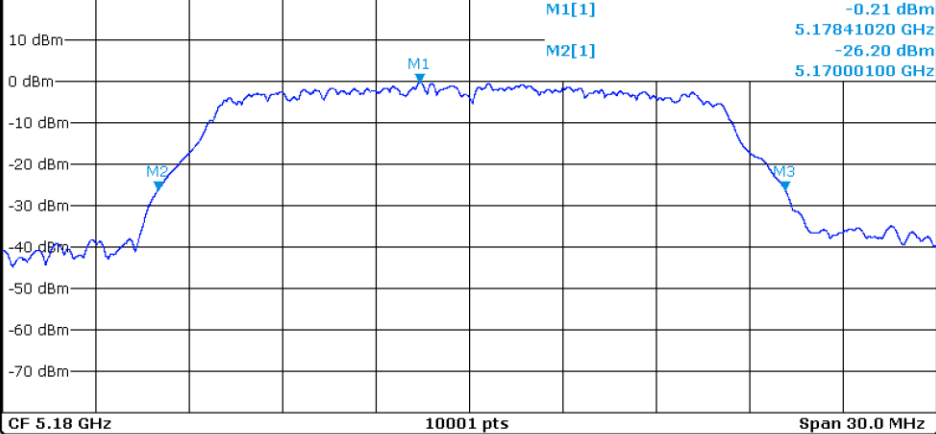
Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 3.96 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

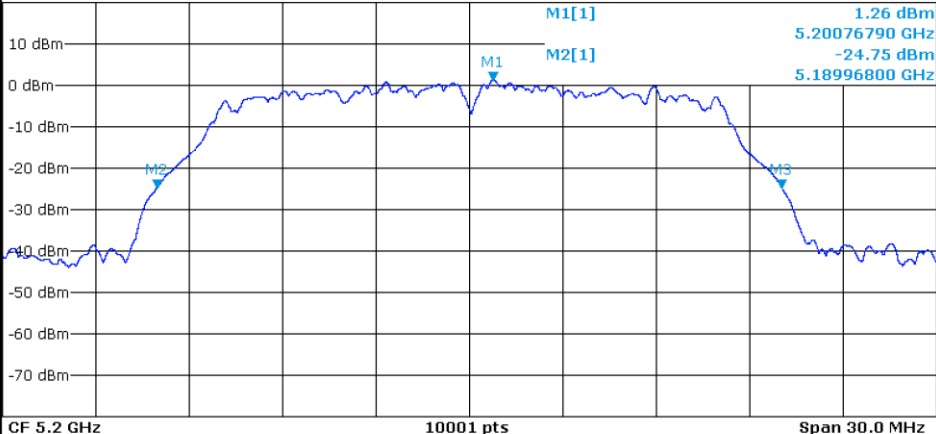
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.1784102 GHz	-0.21 dBm		
M2	1	1	5.170001 GHz	-26.20 dBm		
M3	1	1	5.19014 GHz	-26.20 dBm		

-26dB Bandwidth NVNT a 5200MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

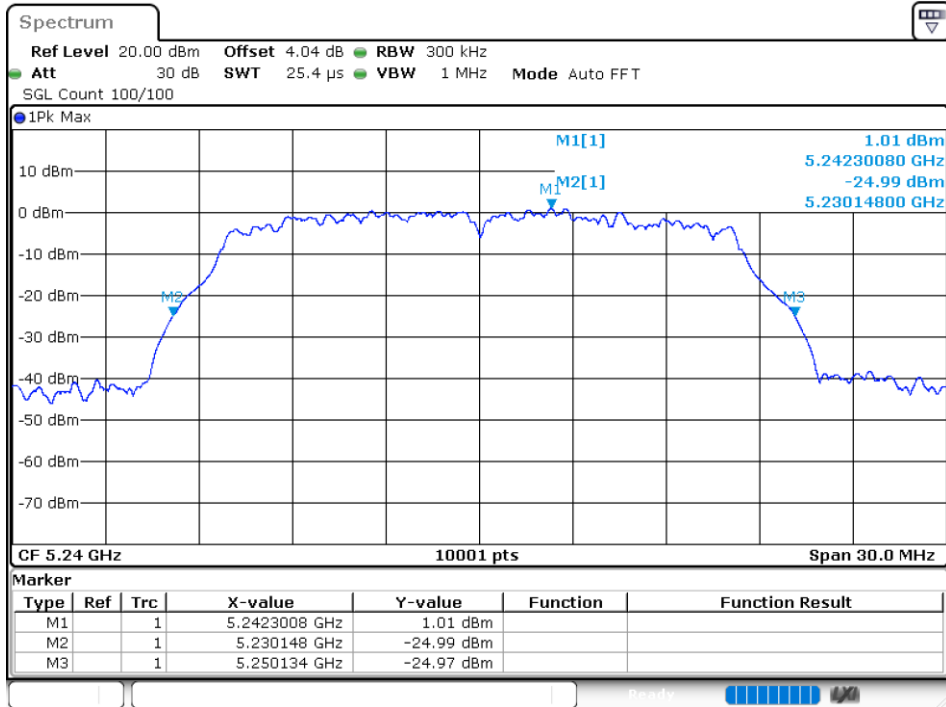
1Pk Max



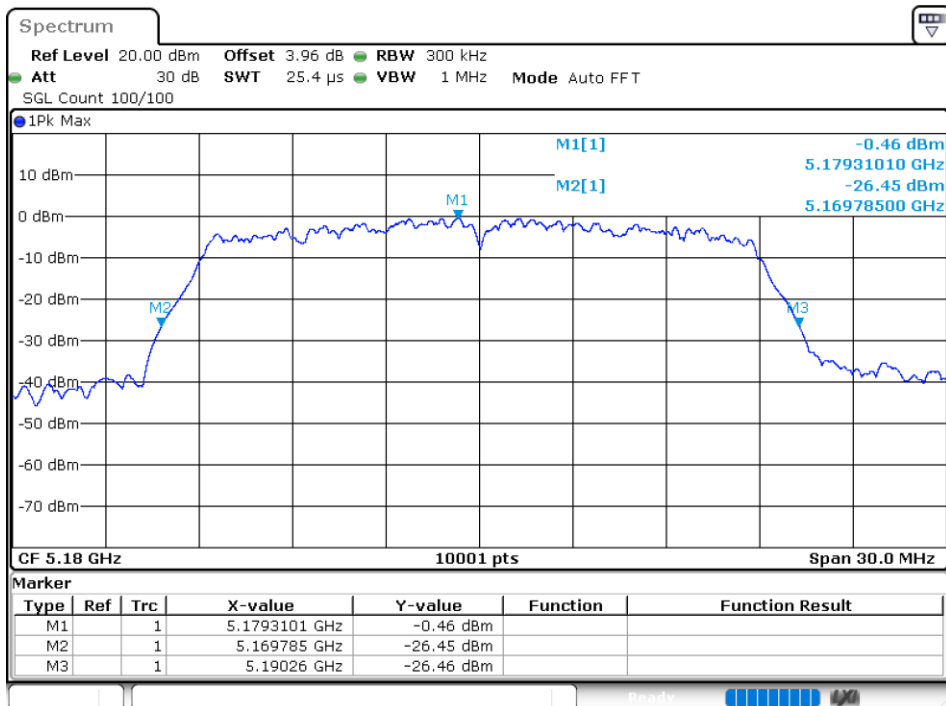
Marker

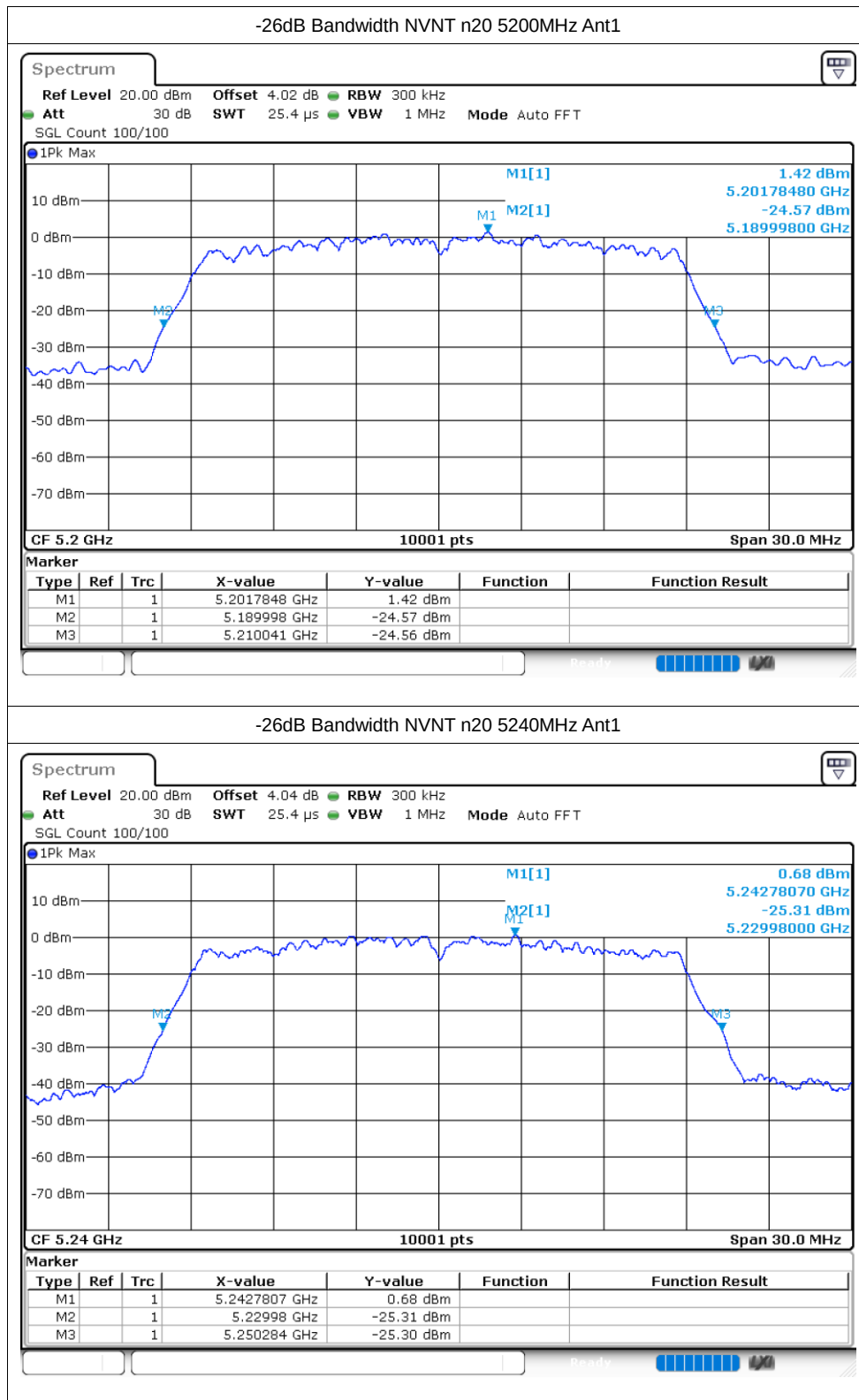
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.2007679 GHz	1.26 dBm		
M2	1	1	5.189968 GHz	-24.75 dBm		
M3	1	1	5.210026 GHz	-24.75 dBm		

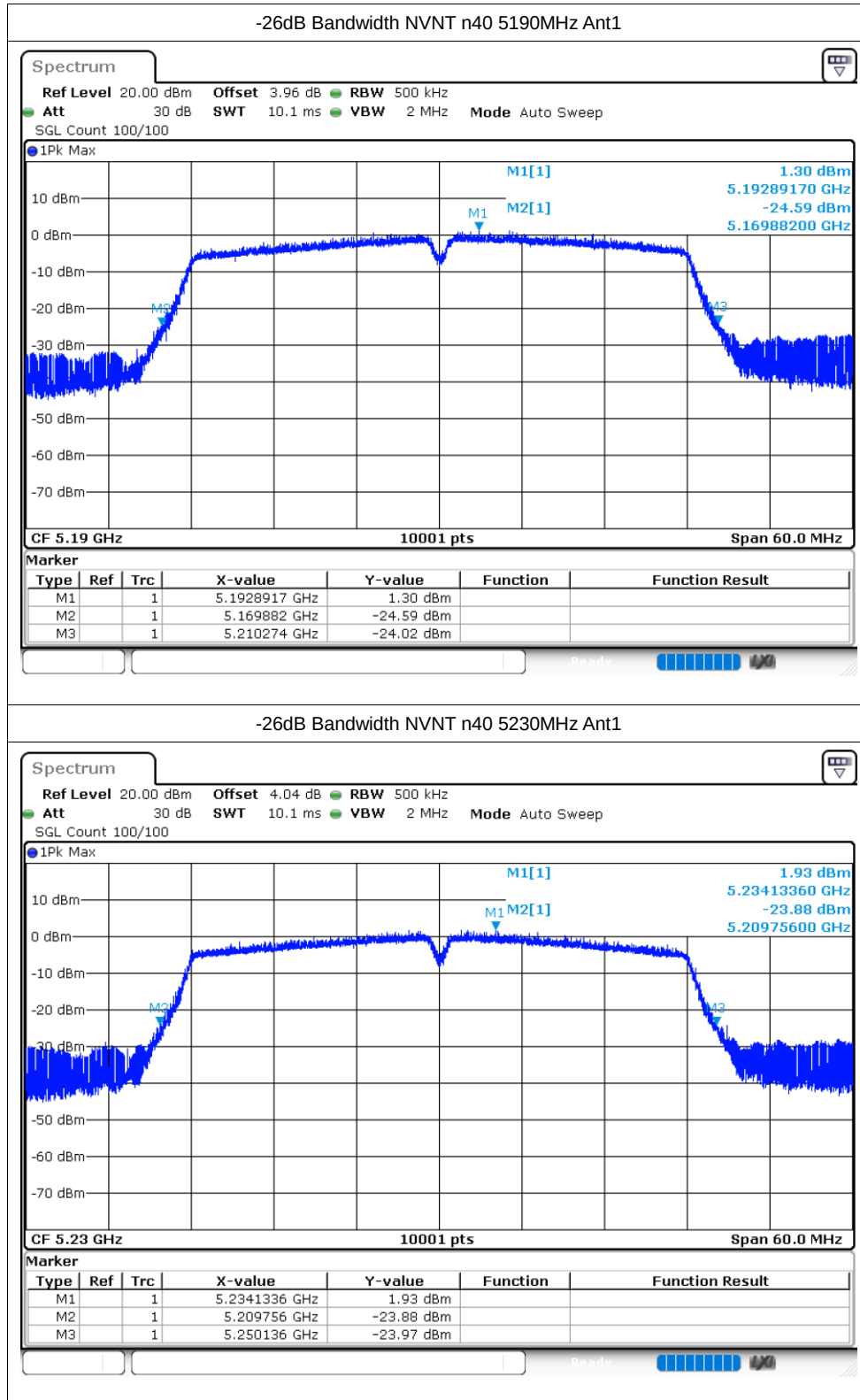
-26dB Bandwidth NVNT a 5240MHz Ant1

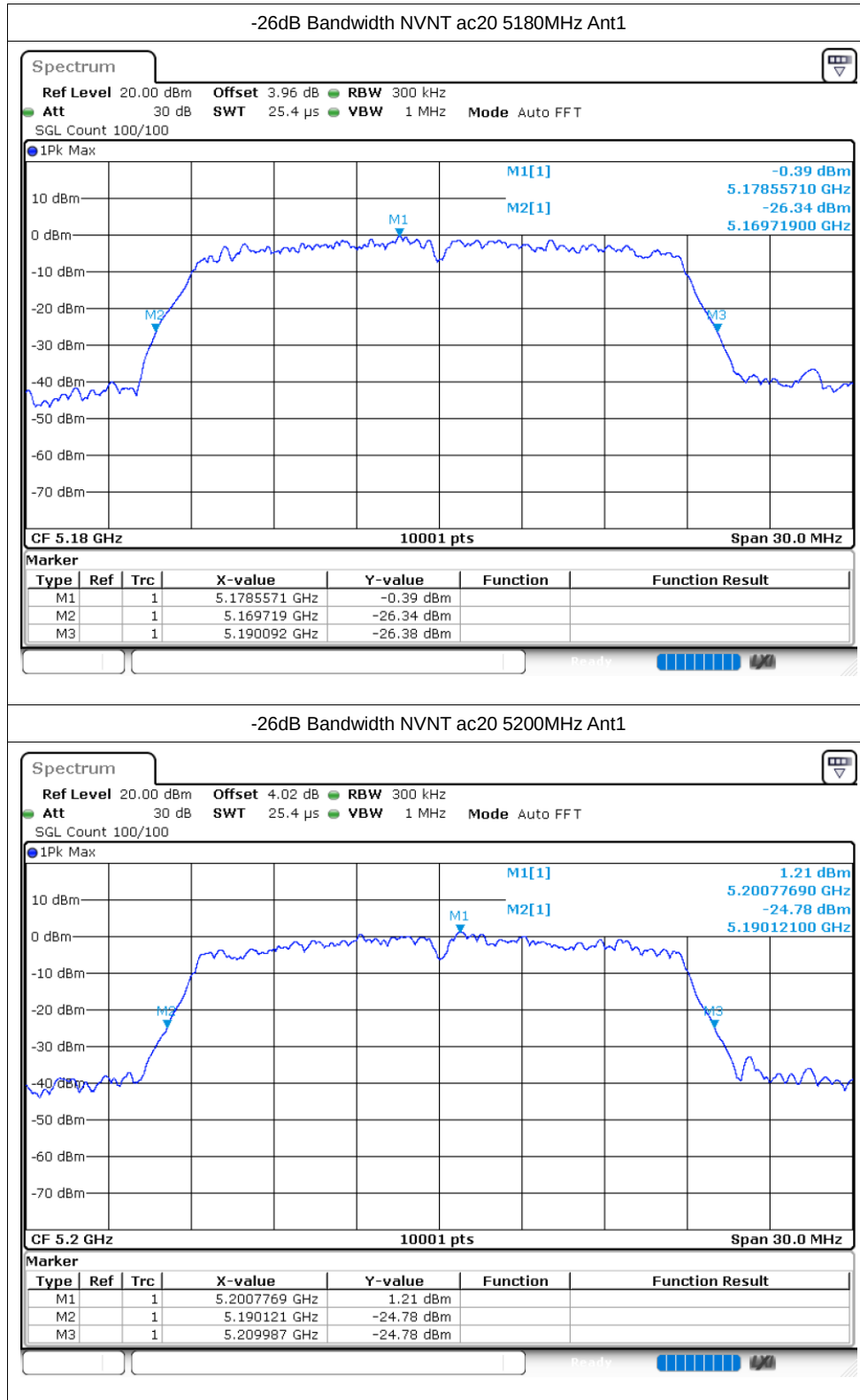


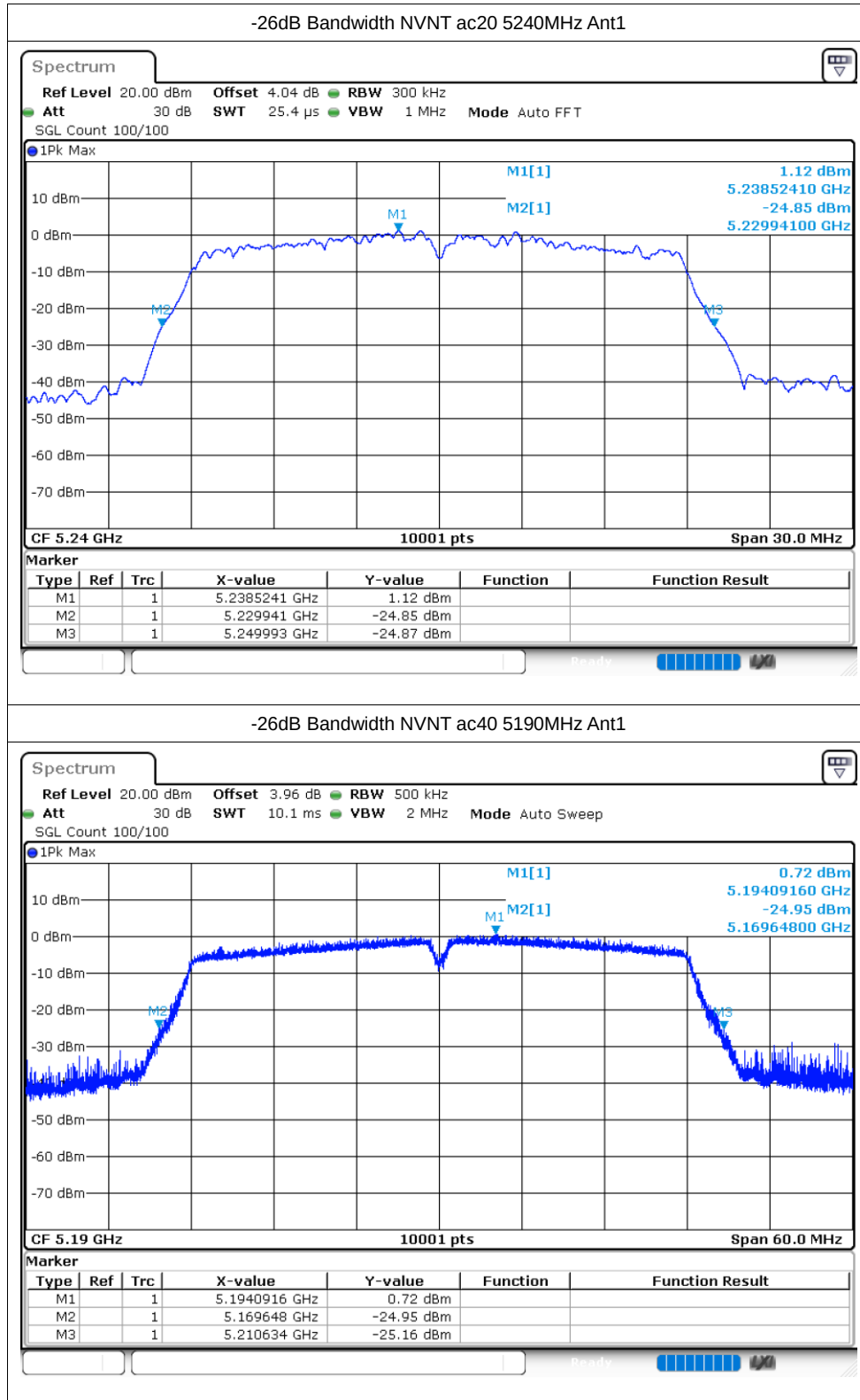
-26dB Bandwidth NVNT n20 5180MHz Ant1

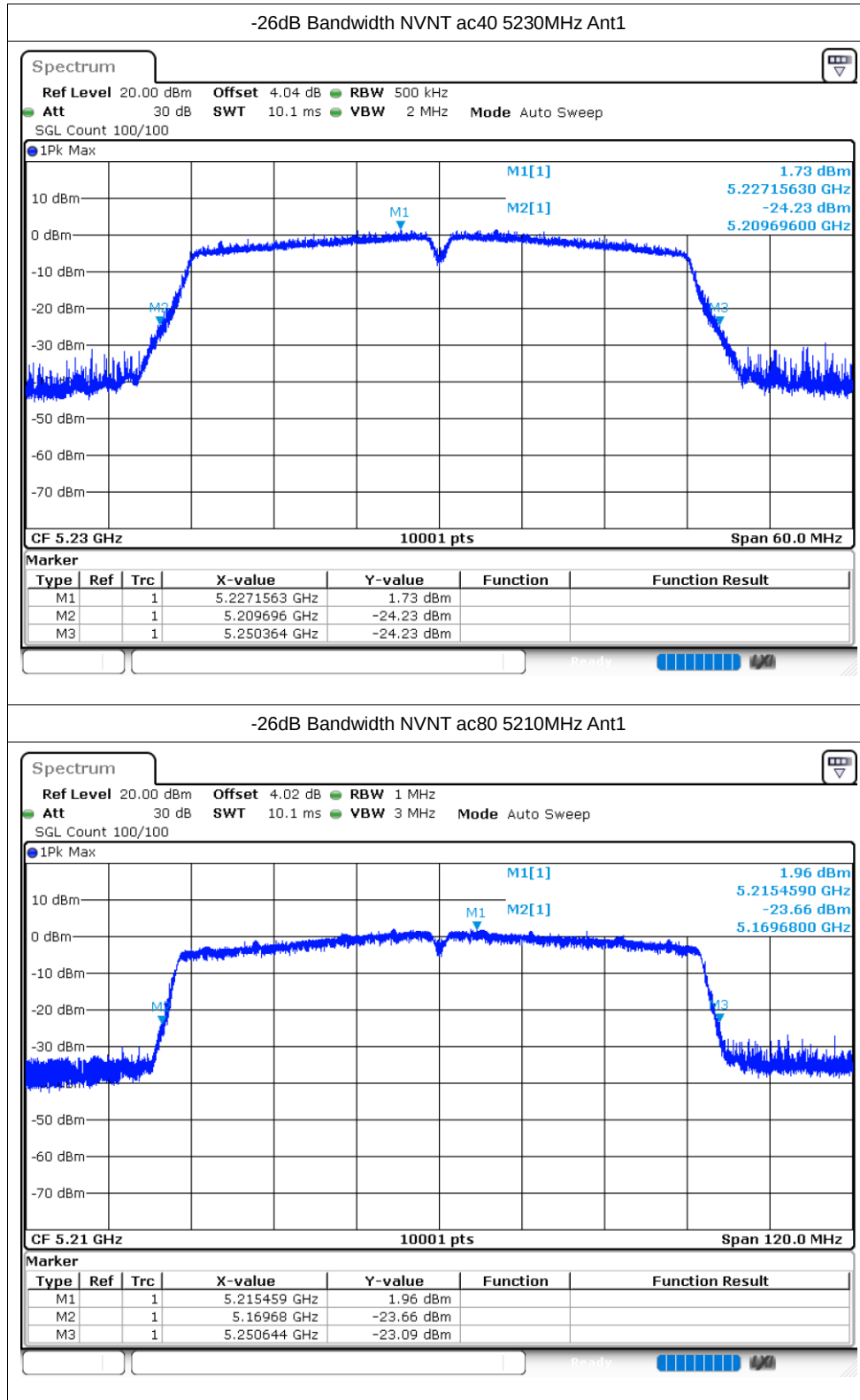










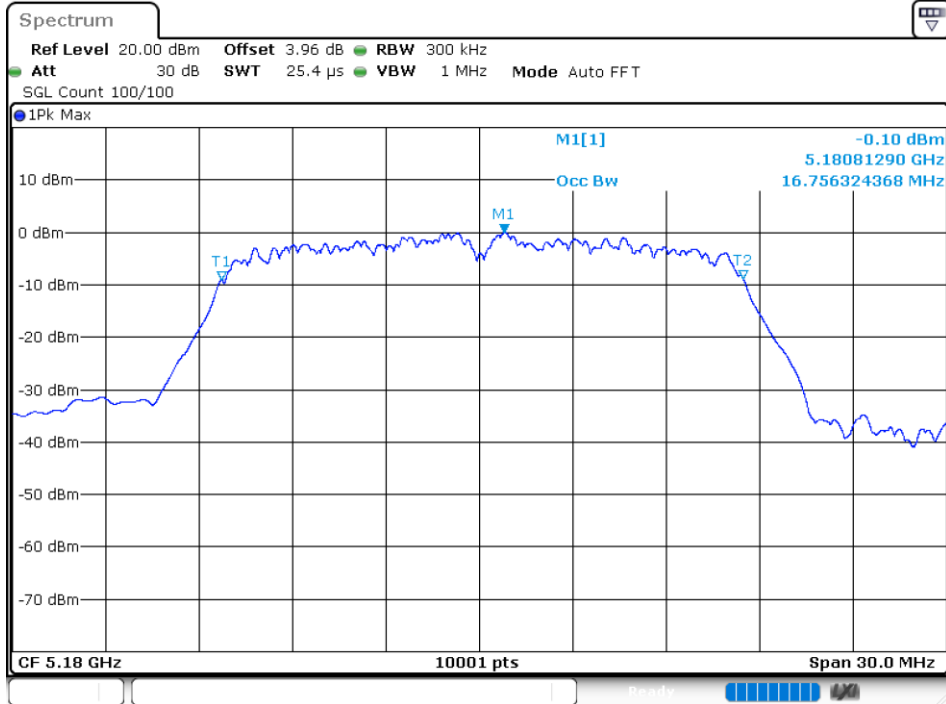


Occupied Channel Bandwidth

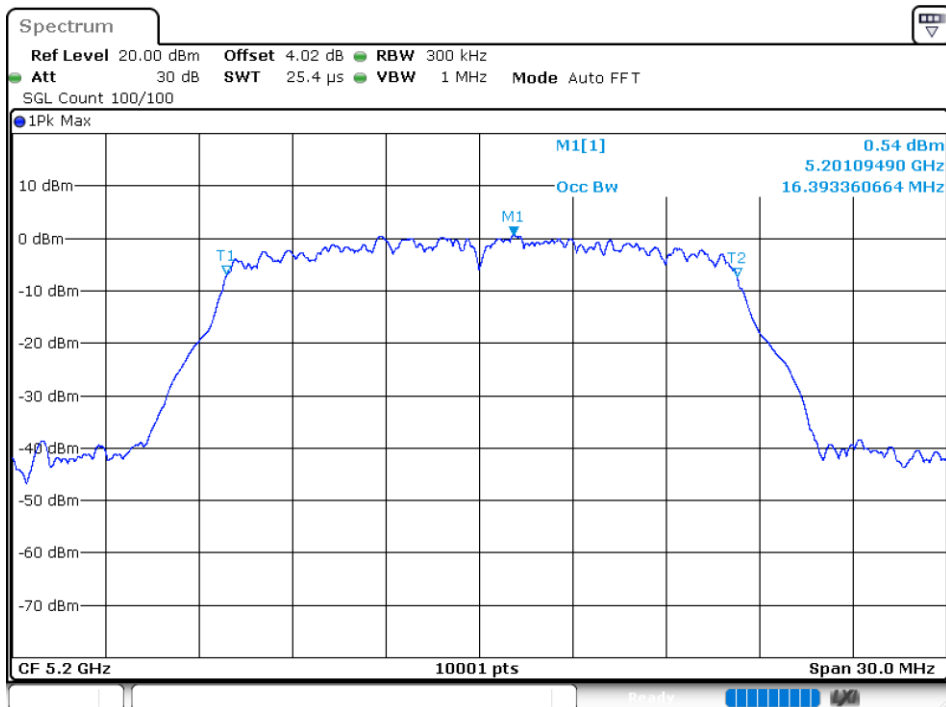
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.756
NVNT	a	5200	Ant1	16.393
NVNT	a	5240	Ant1	16.477
NVNT	n20	5180	Ant1	17.572
NVNT	n20	5200	Ant1	17.5
NVNT	n20	5240	Ant1	17.515
NVNT	n40	5190	Ant1	36.056
NVNT	n40	5230	Ant1	35.984
NVNT	ac20	5180	Ant1	17.599
NVNT	ac20	5200	Ant1	17.566
NVNT	ac20	5240	Ant1	17.596
NVNT	ac40	5190	Ant1	36.008
NVNT	ac40	5230	Ant1	35.948
NVNT	ac80	5210	Ant1	74.969

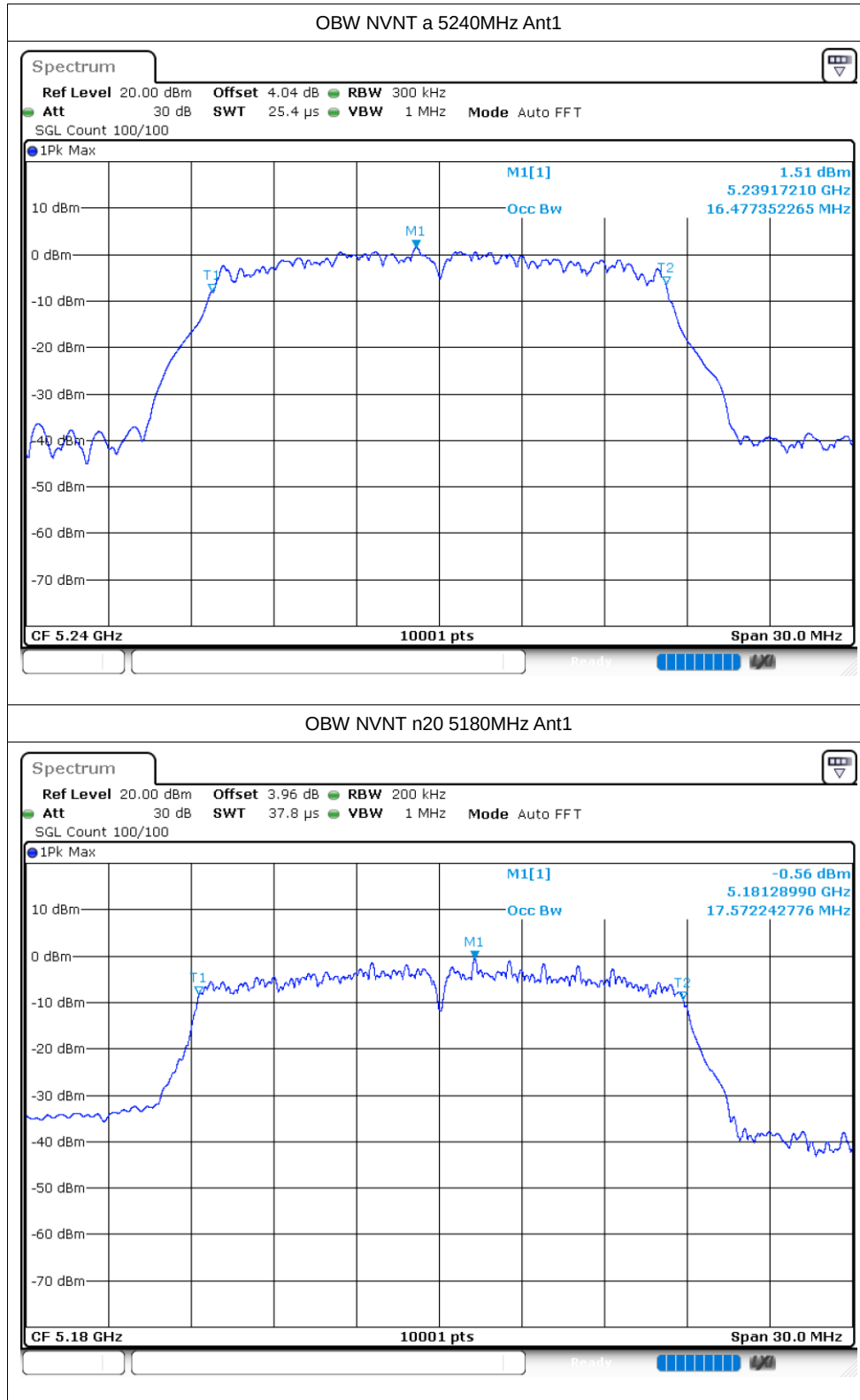
Test Graphs

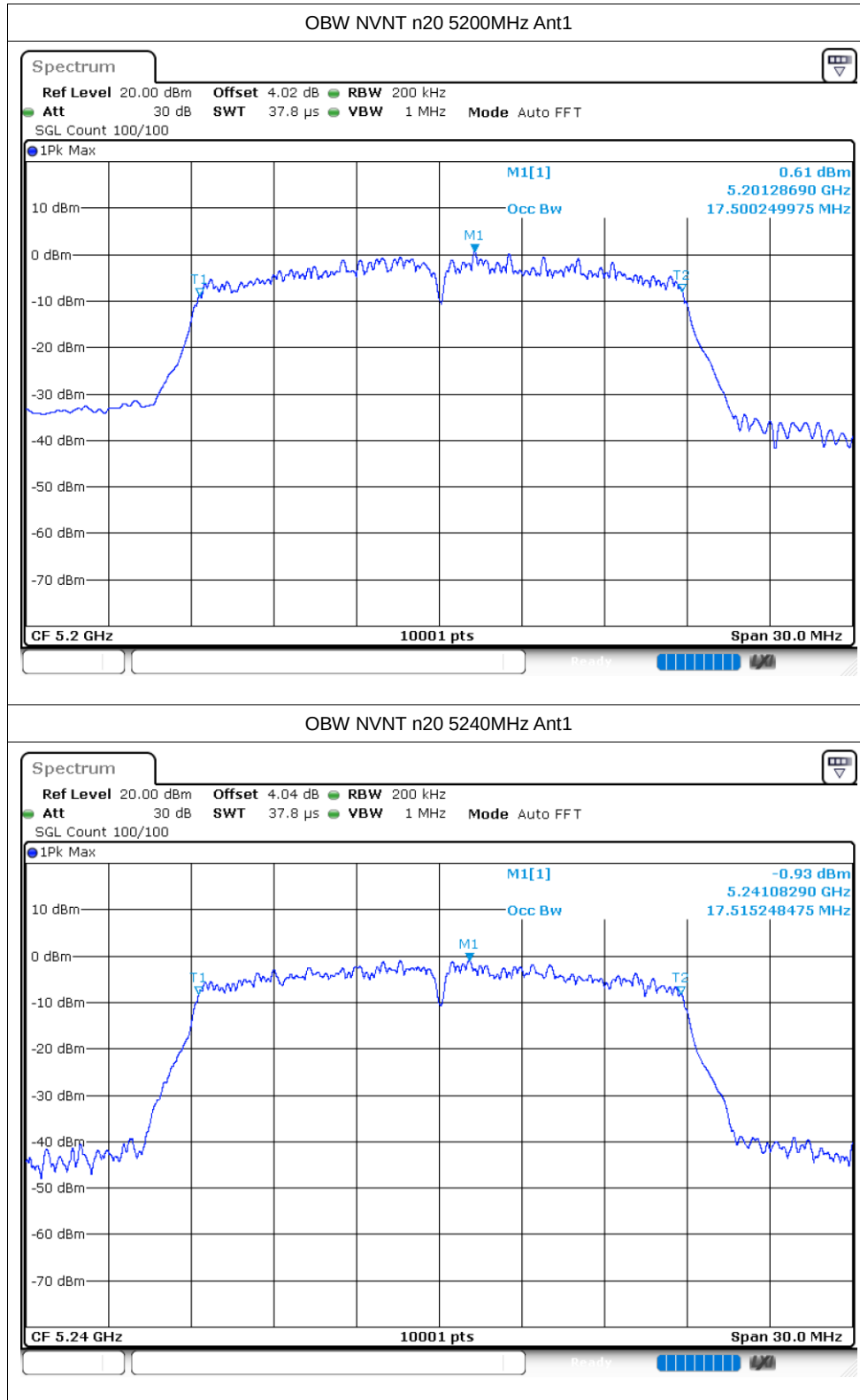
OBW NVNT a 5180MHz Ant1

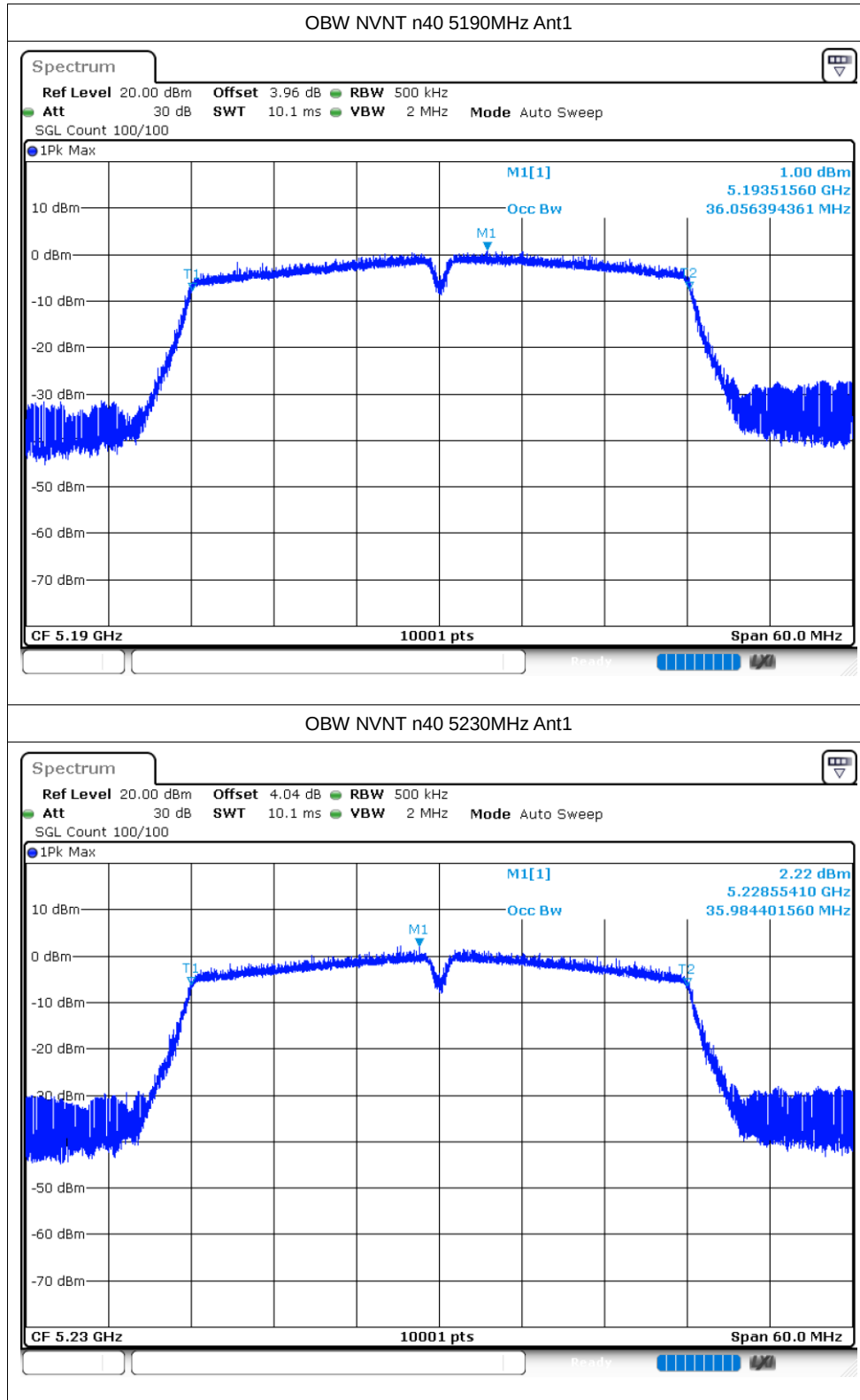


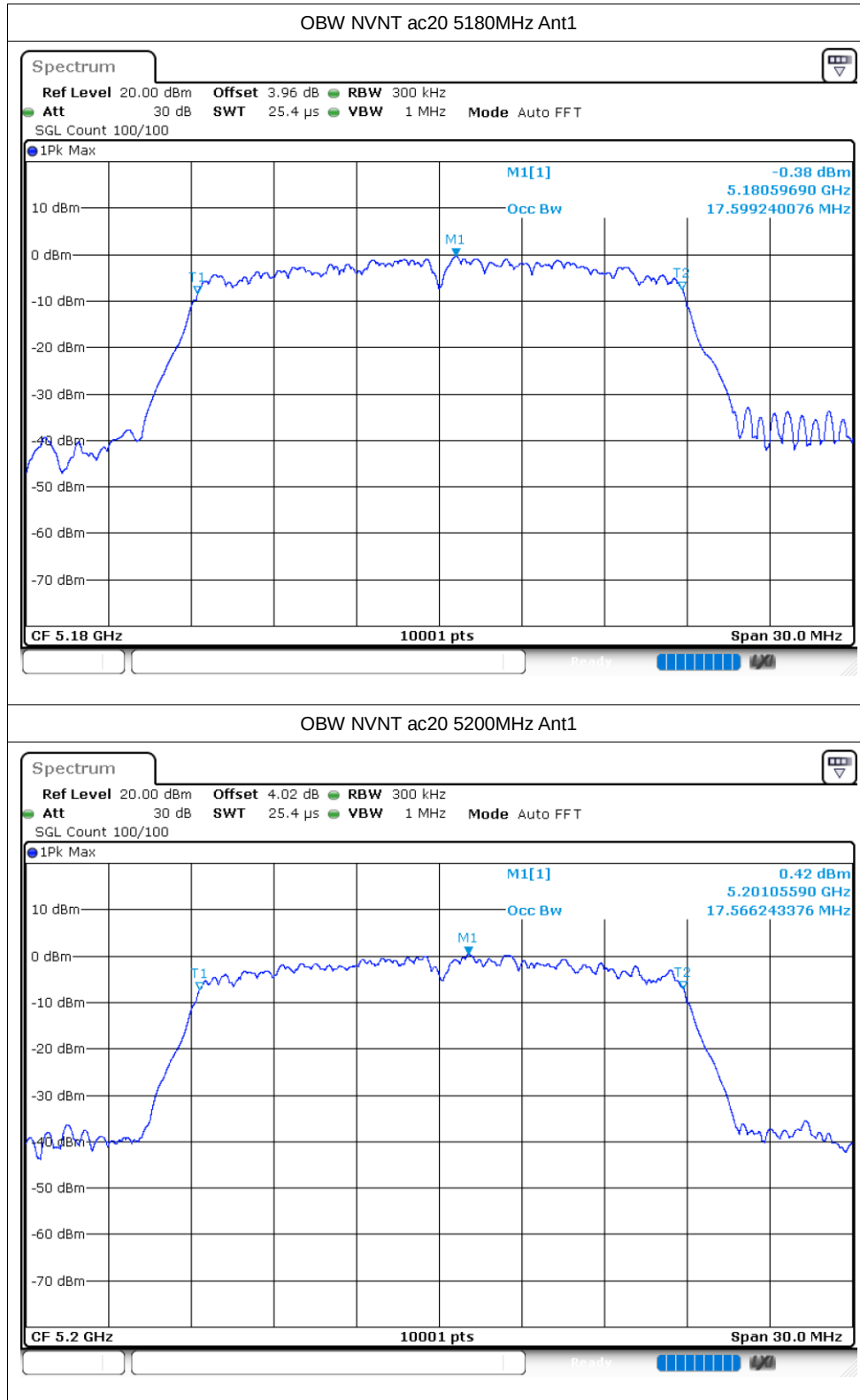
OBW NVNT a 5200MHz Ant1

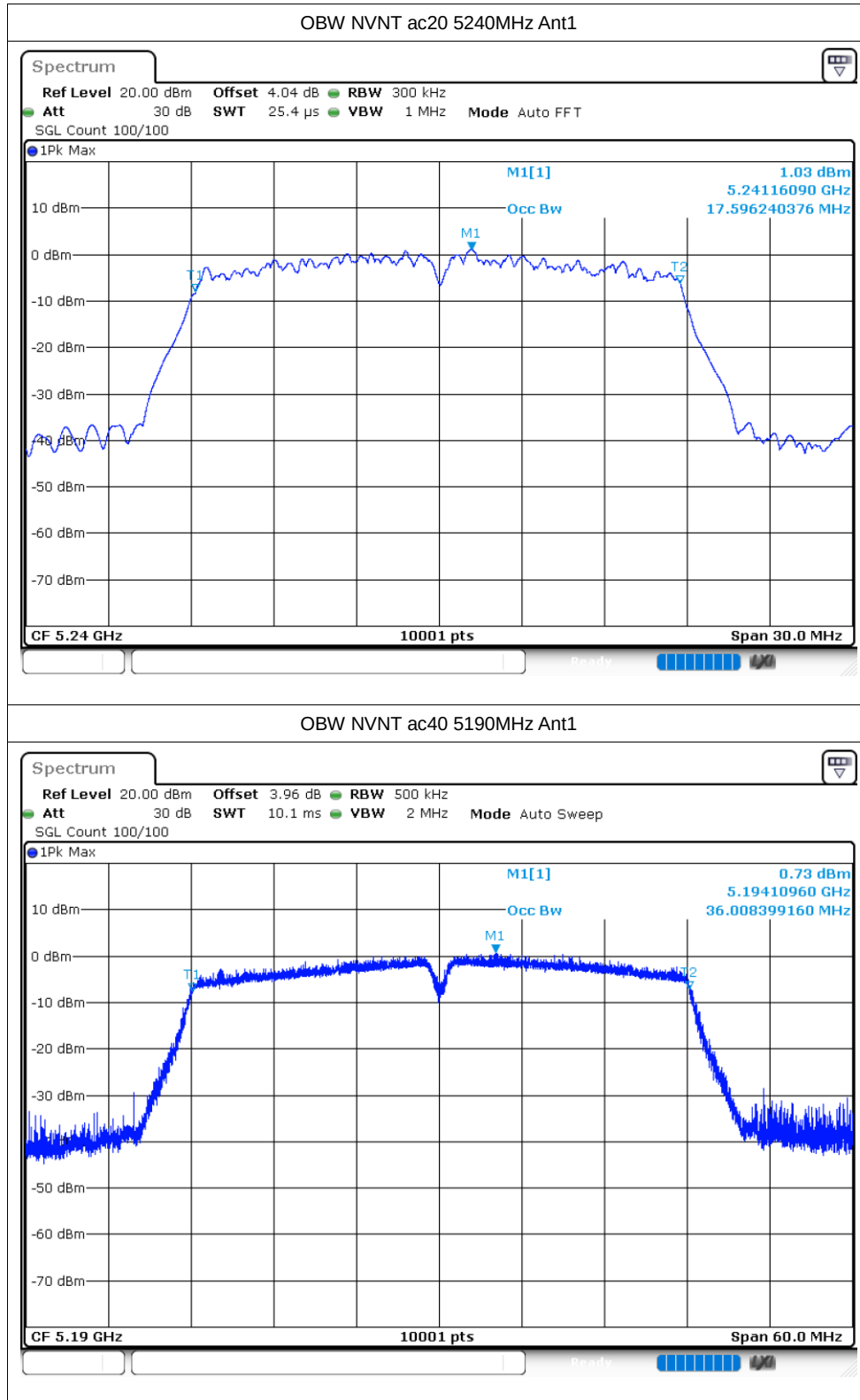


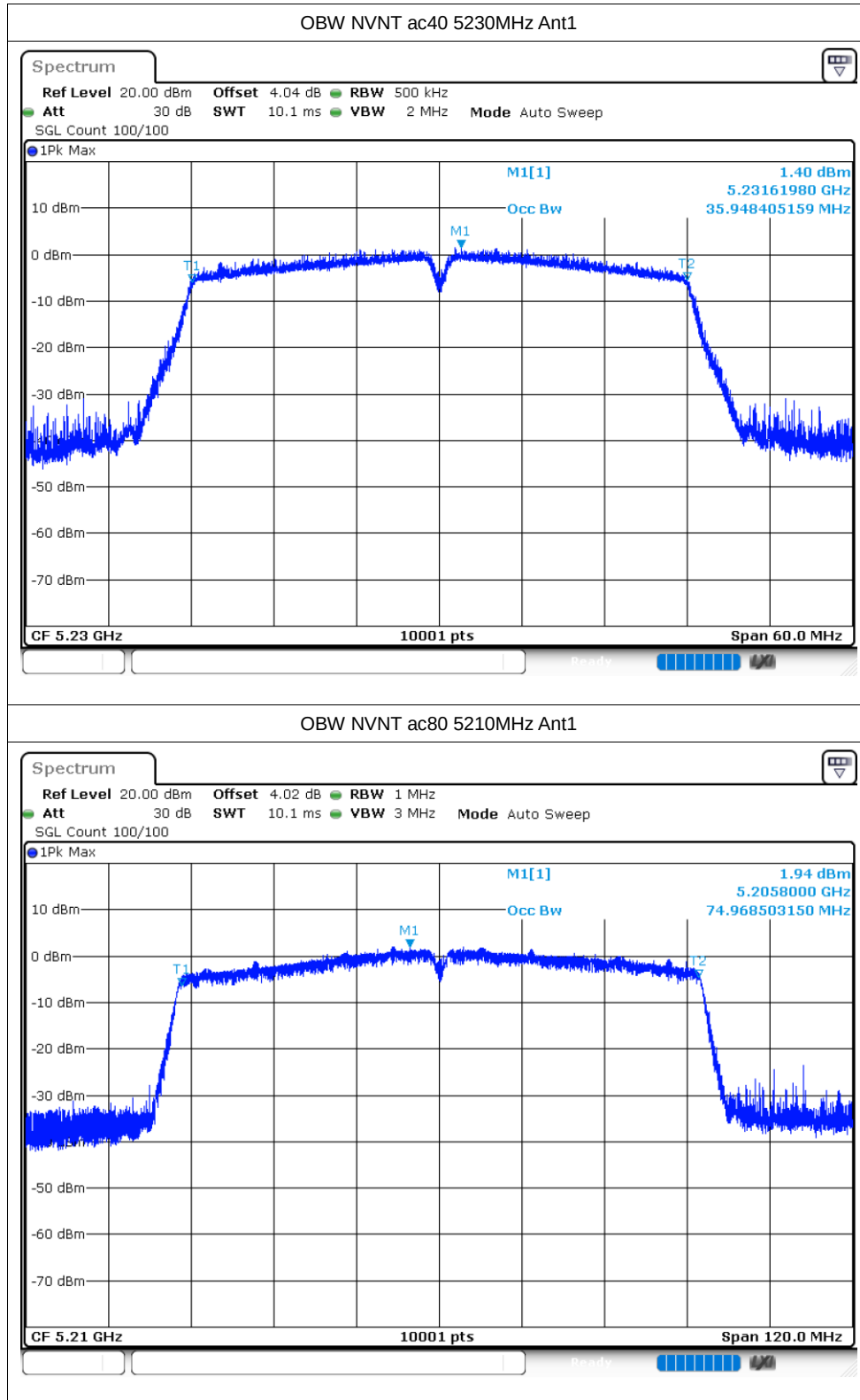










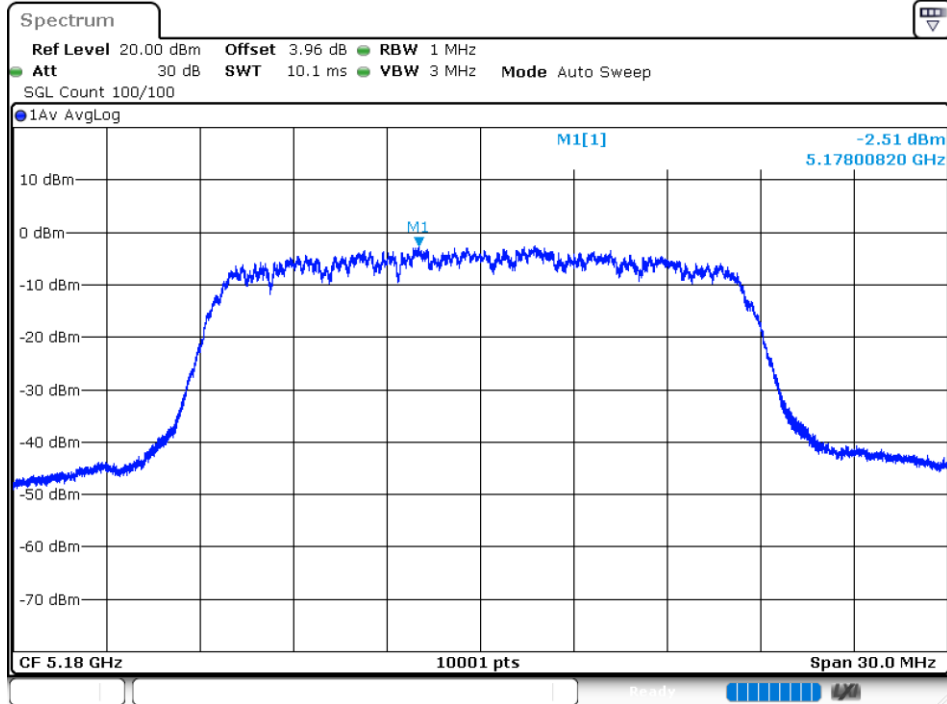


Maximum Power Spectral Density Level

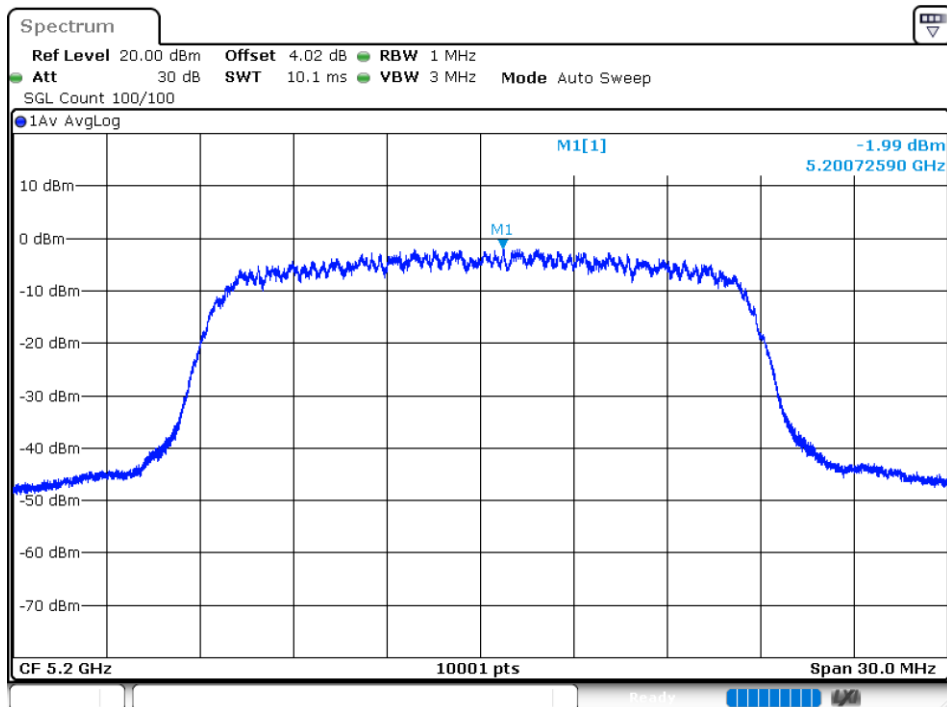
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-2.51	0.11	-2.4	11	Pass
NVNT	a	5200	Ant1	-1.99	0.11	-1.88	11	Pass
NVNT	a	5240	Ant1	-1.02	0.1	-0.92	11	Pass
NVNT	n20	5180	Ant1	-2.97	0.11	-2.86	11	Pass
NVNT	n20	5200	Ant1	-1.43	0.11	-1.32	11	Pass
NVNT	n20	5240	Ant1	-1.62	0.11	-1.51	11	Pass
NVNT	n40	5190	Ant1	-5.88	0.22	-5.66	11	Pass
NVNT	n40	5230	Ant1	-5.29	0.22	-5.07	11	Pass
NVNT	ac20	5180	Ant1	-3.07	0.11	-2.96	11	Pass
NVNT	ac20	5200	Ant1	-1.71	0.11	-1.6	11	Pass
NVNT	ac20	5240	Ant1	-1.66	0.11	-1.55	11	Pass
NVNT	ac40	5190	Ant1	-6.19	0.22	-5.97	11	Pass
NVNT	ac40	5230	Ant1	-4.98	0.22	-4.76	11	Pass
NVNT	ac80	5210	Ant1	-10.24	0.41	-9.83	11	Pass

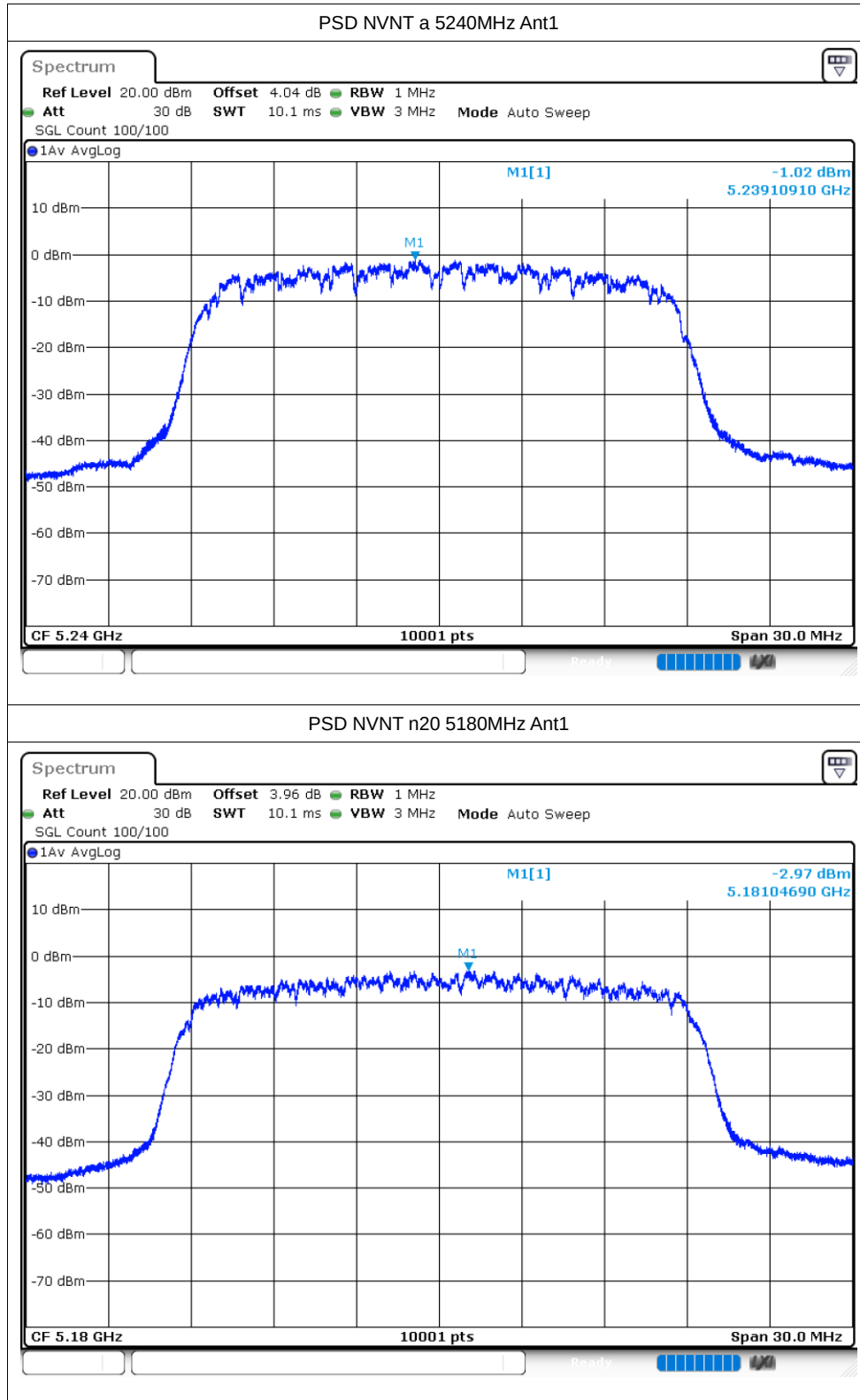
Test Graphs

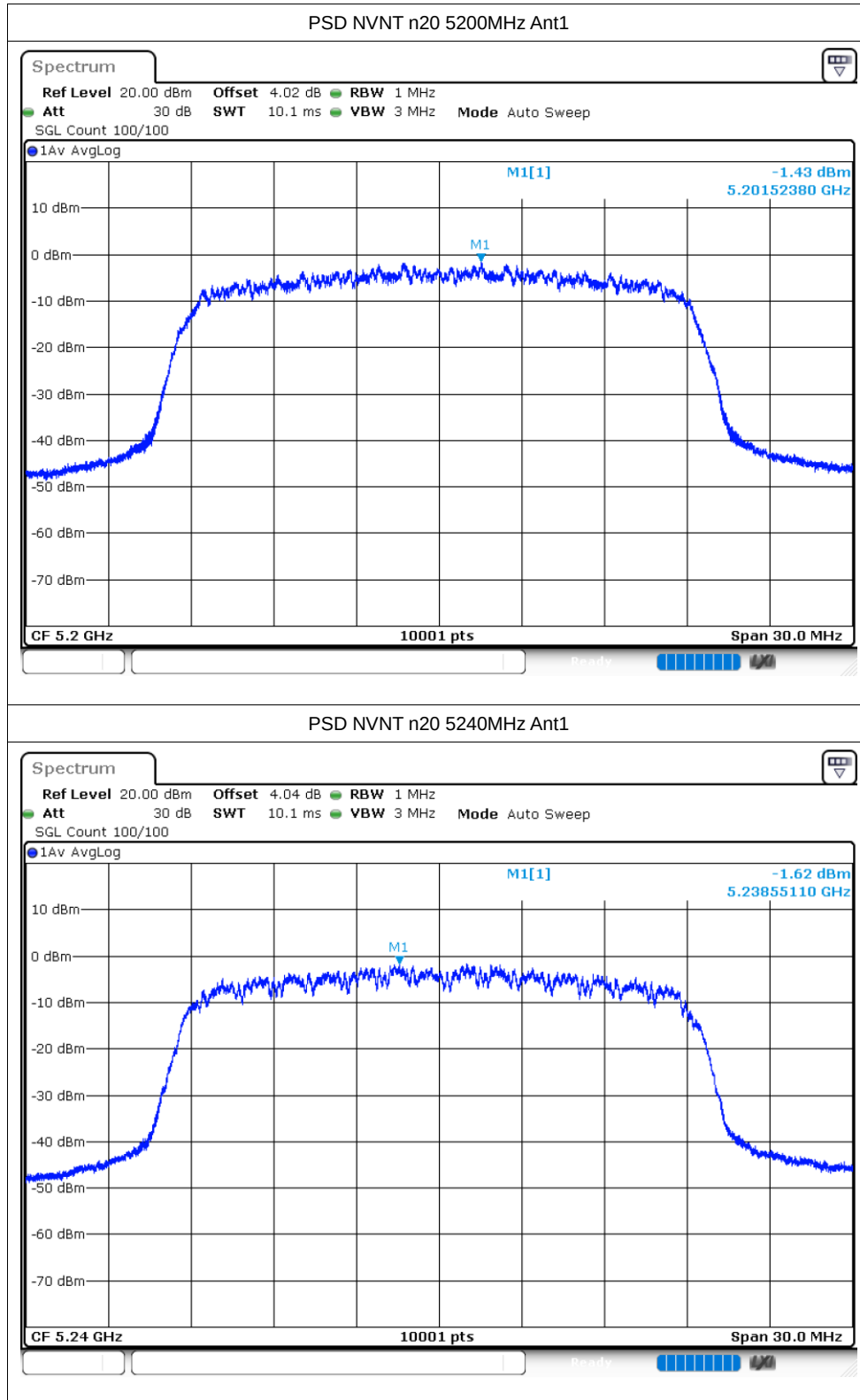
PSD NVNT a 5180MHz Ant1

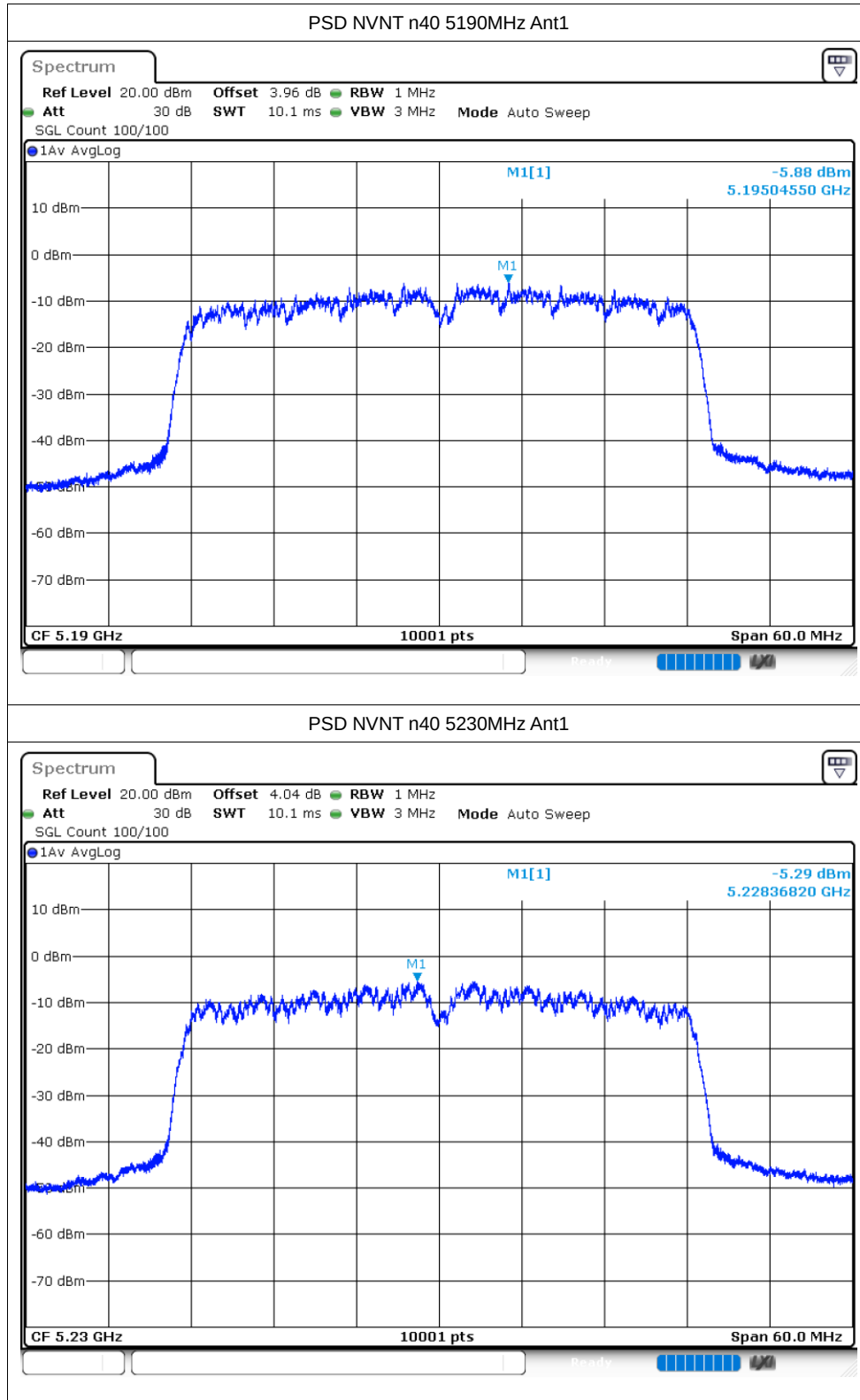


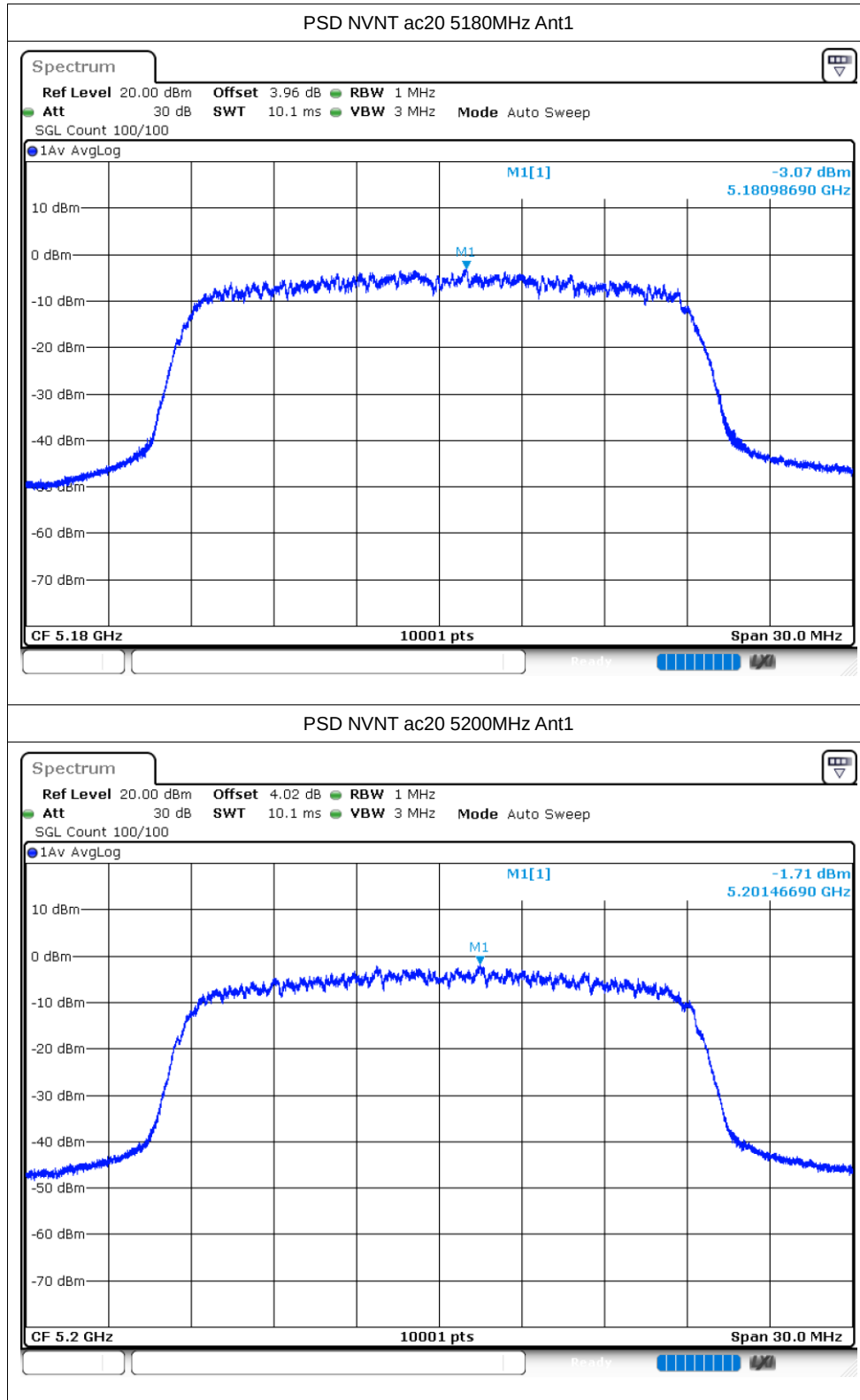
PSD NVNT a 5200MHz Ant1

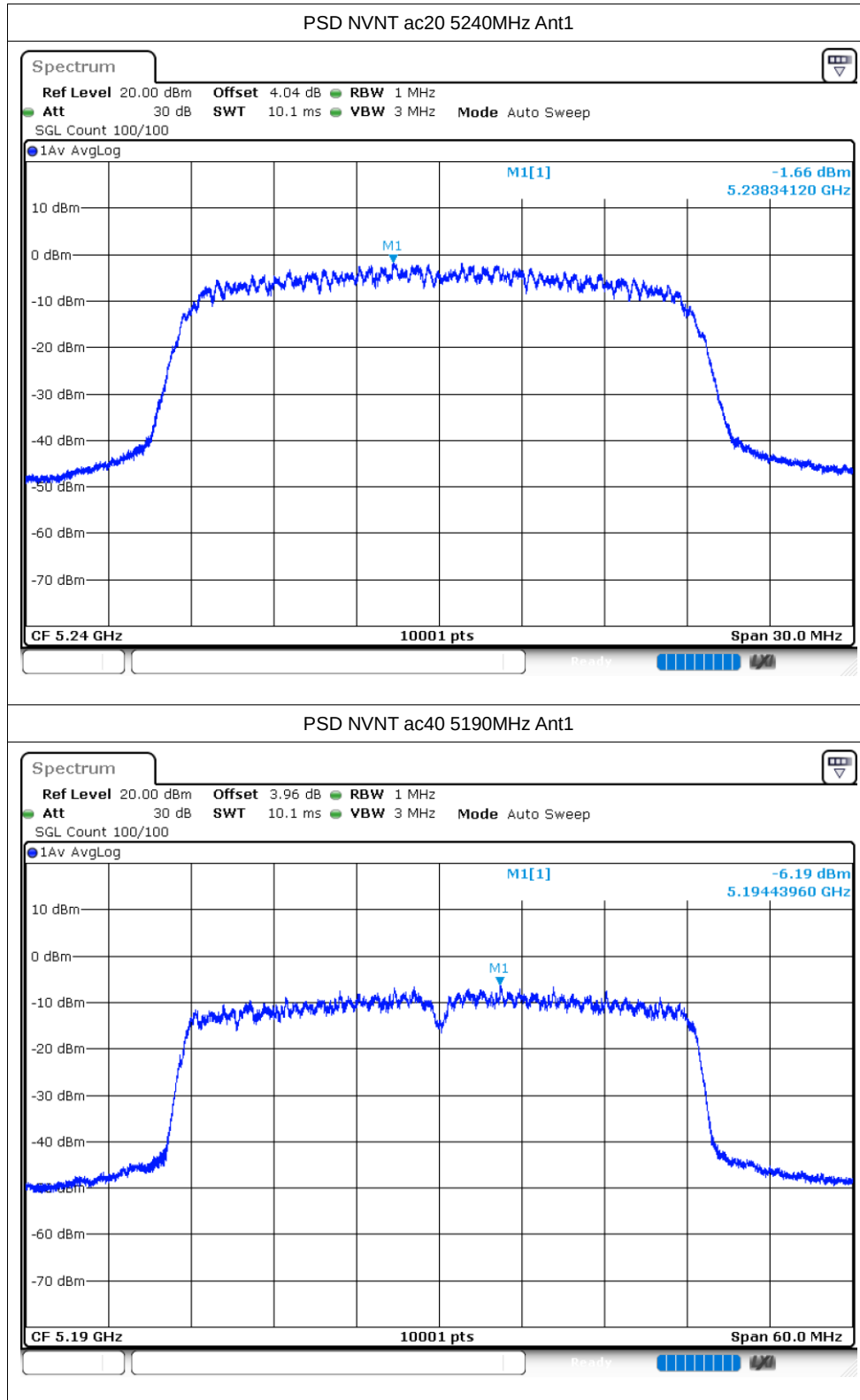


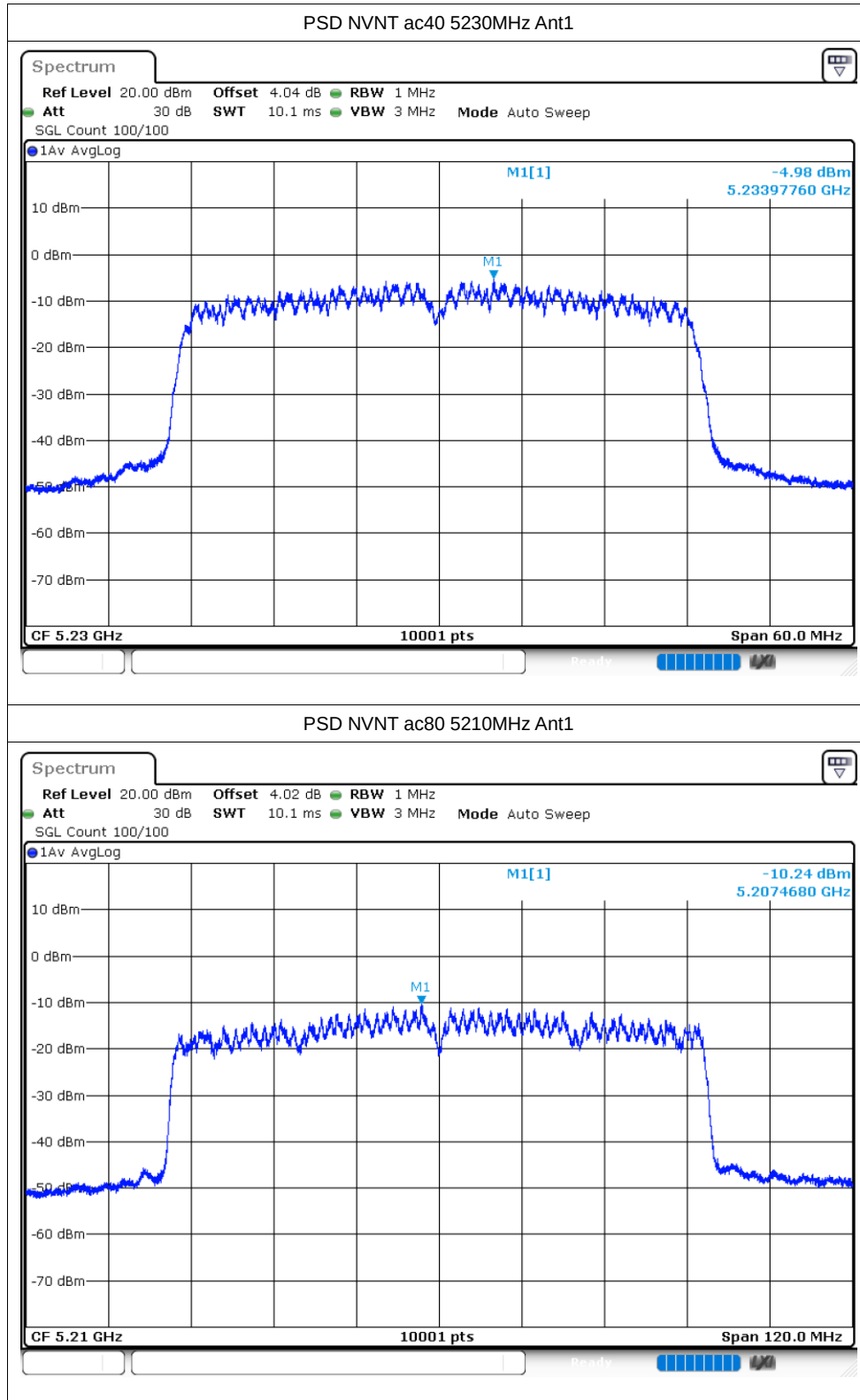












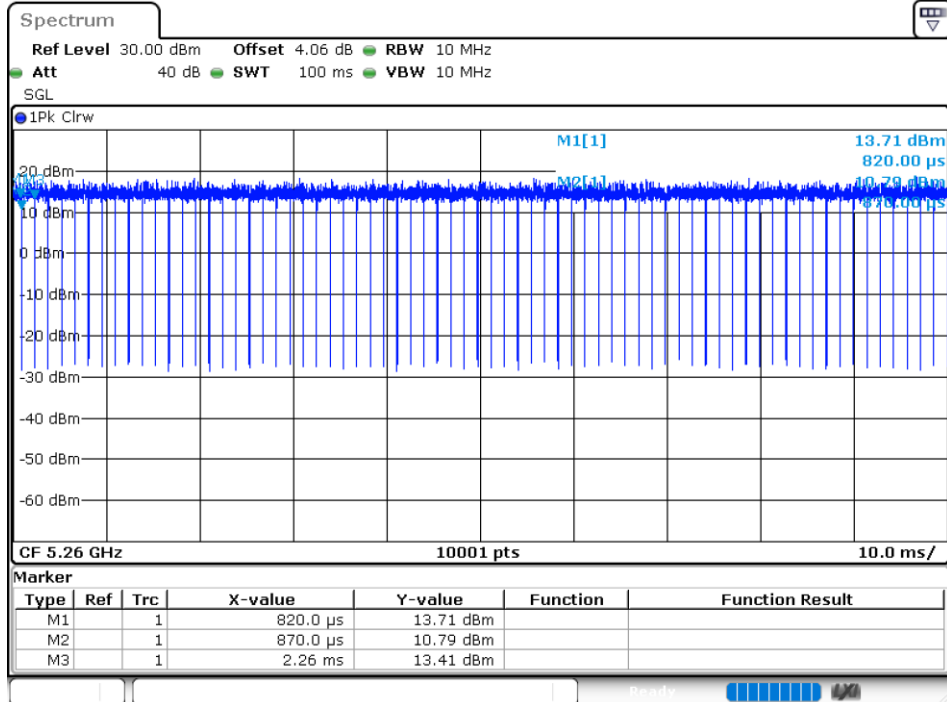
5.3G WIFI

Duty Cycle

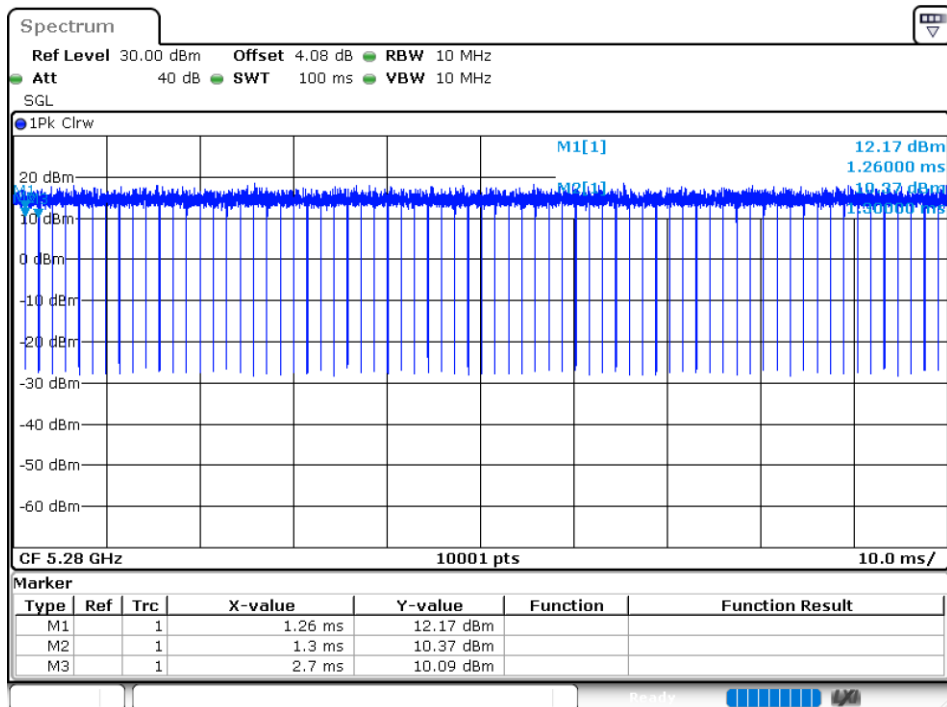
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.56	0.11	0.72
NVNT	a	5280	Ant1	97.6	0.11	0.71
NVNT	a	5320	Ant1	97.61	0.11	0.71
NVNT	n20	5260	Ant1	97.39	0.11	0.77
NVNT	n20	5280	Ant1	97.45	0.11	0.77
NVNT	n20	5320	Ant1	97.44	0.11	0.77
NVNT	n40	5270	Ant1	95.04	0.22	1.54
NVNT	n40	5310	Ant1	95.07	0.22	1.56
NVNT	ac20	5260	Ant1	97.44	0.11	0.76
NVNT	ac20	5280	Ant1	97.44	0.11	0.76
NVNT	ac20	5320	Ant1	97.45	0.11	0.76
NVNT	ac40	5270	Ant1	95.08	0.22	1.54
NVNT	ac40	5310	Ant1	95.09	0.22	1.54
NVNT	ac80	5290	Ant1	90.55	0.43	3.13

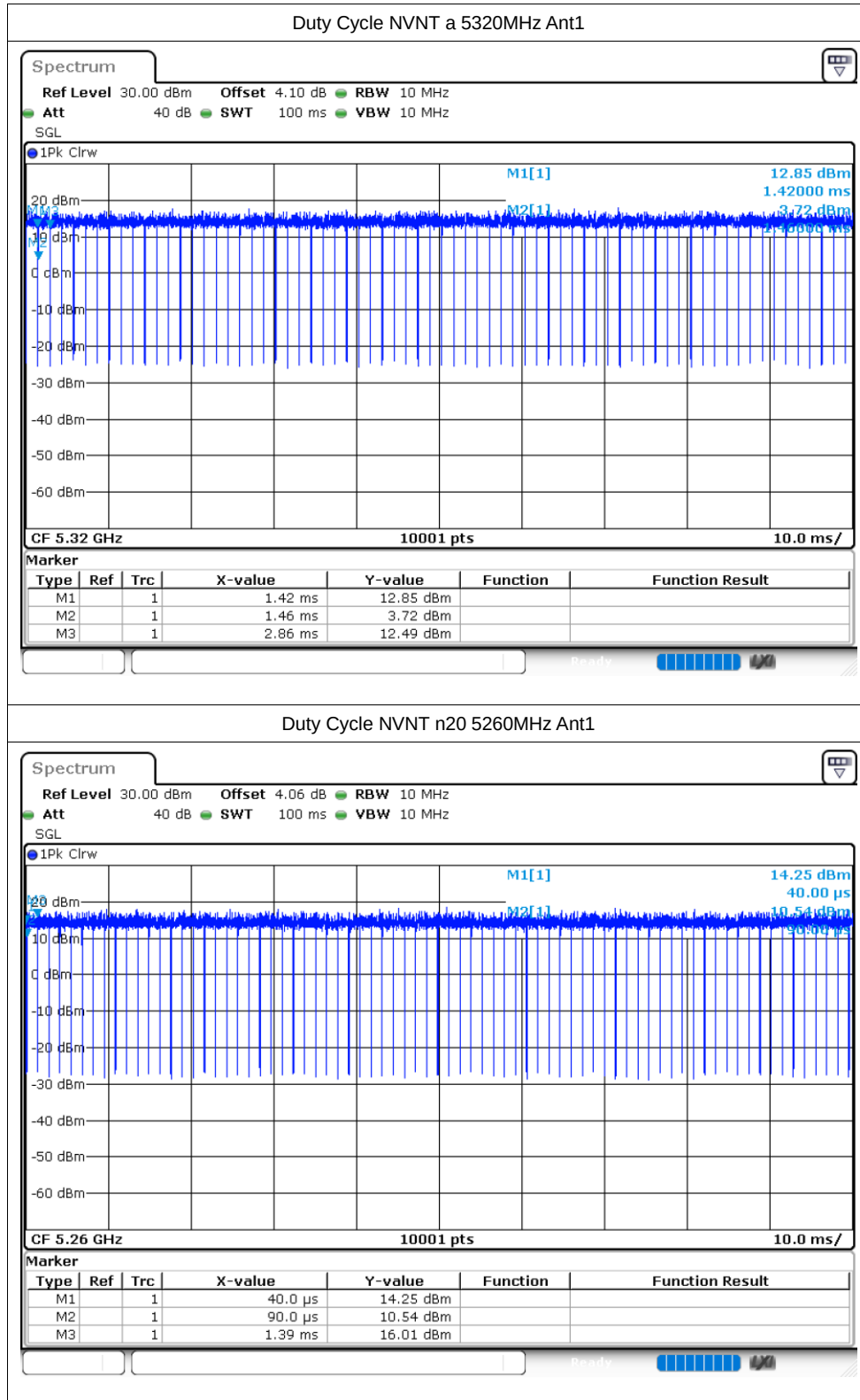
Test Graphs

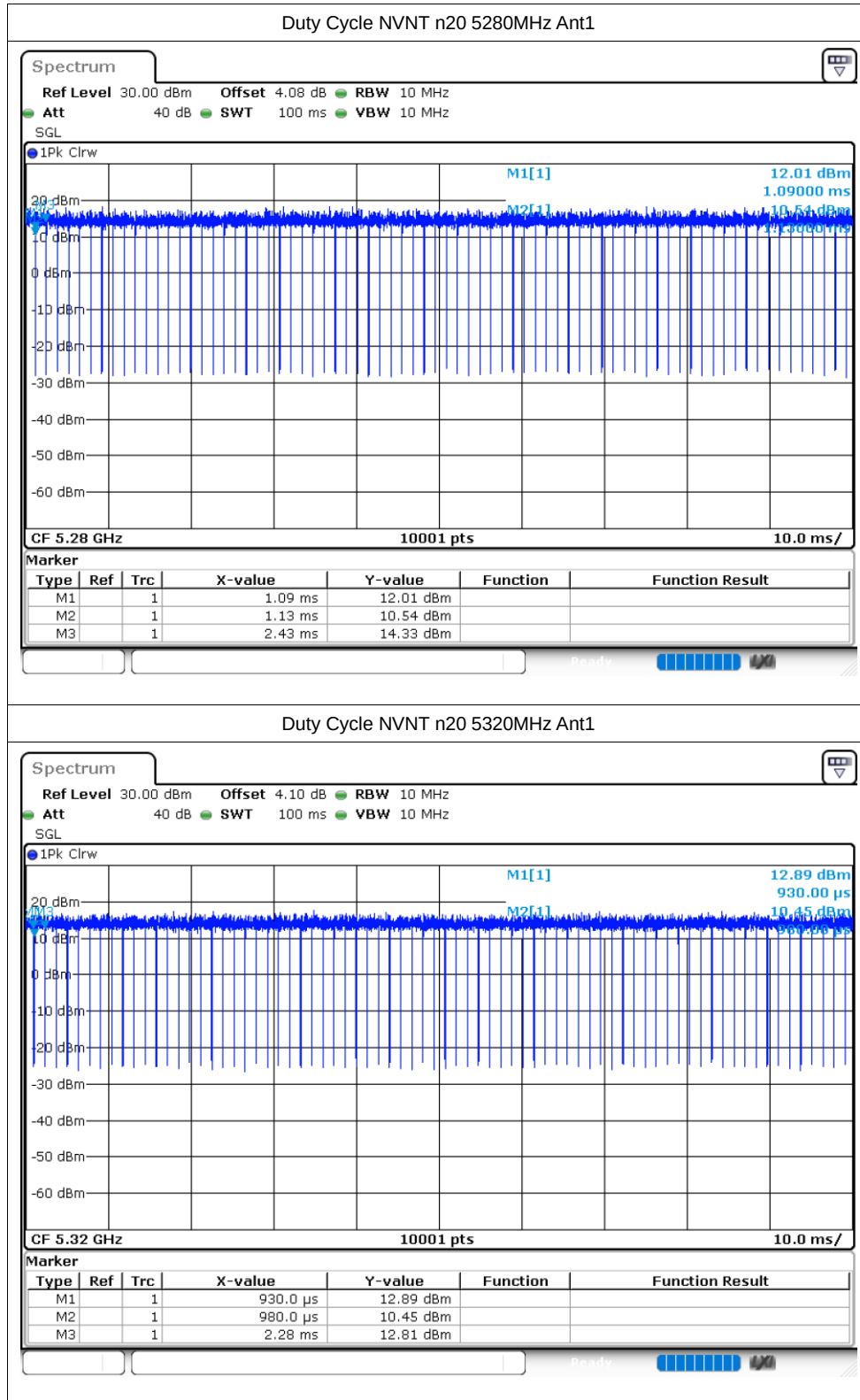
Duty Cycle NVNT a 5260MHz Ant1

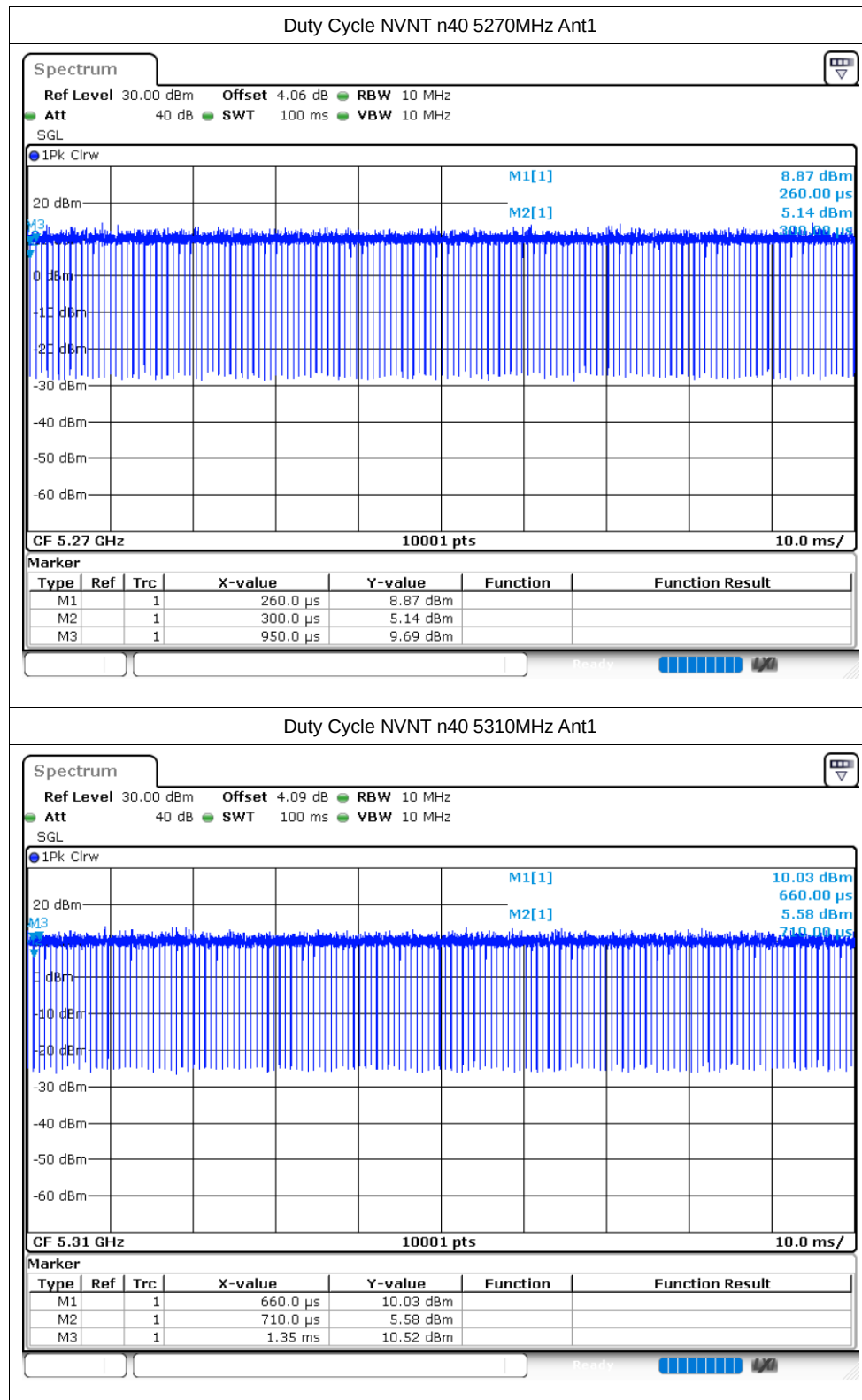


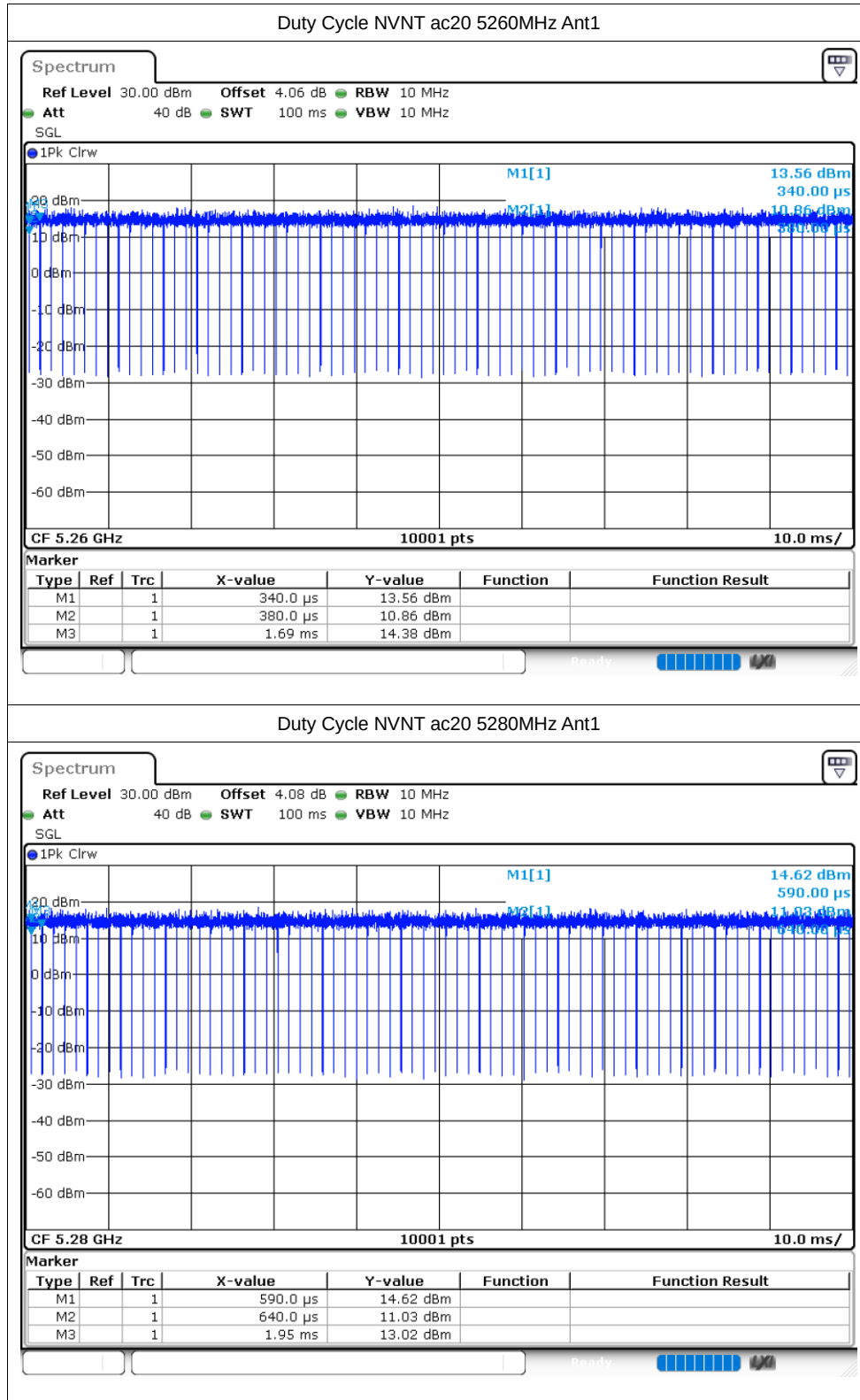
Duty Cycle NVNT a 5280MHz Ant1

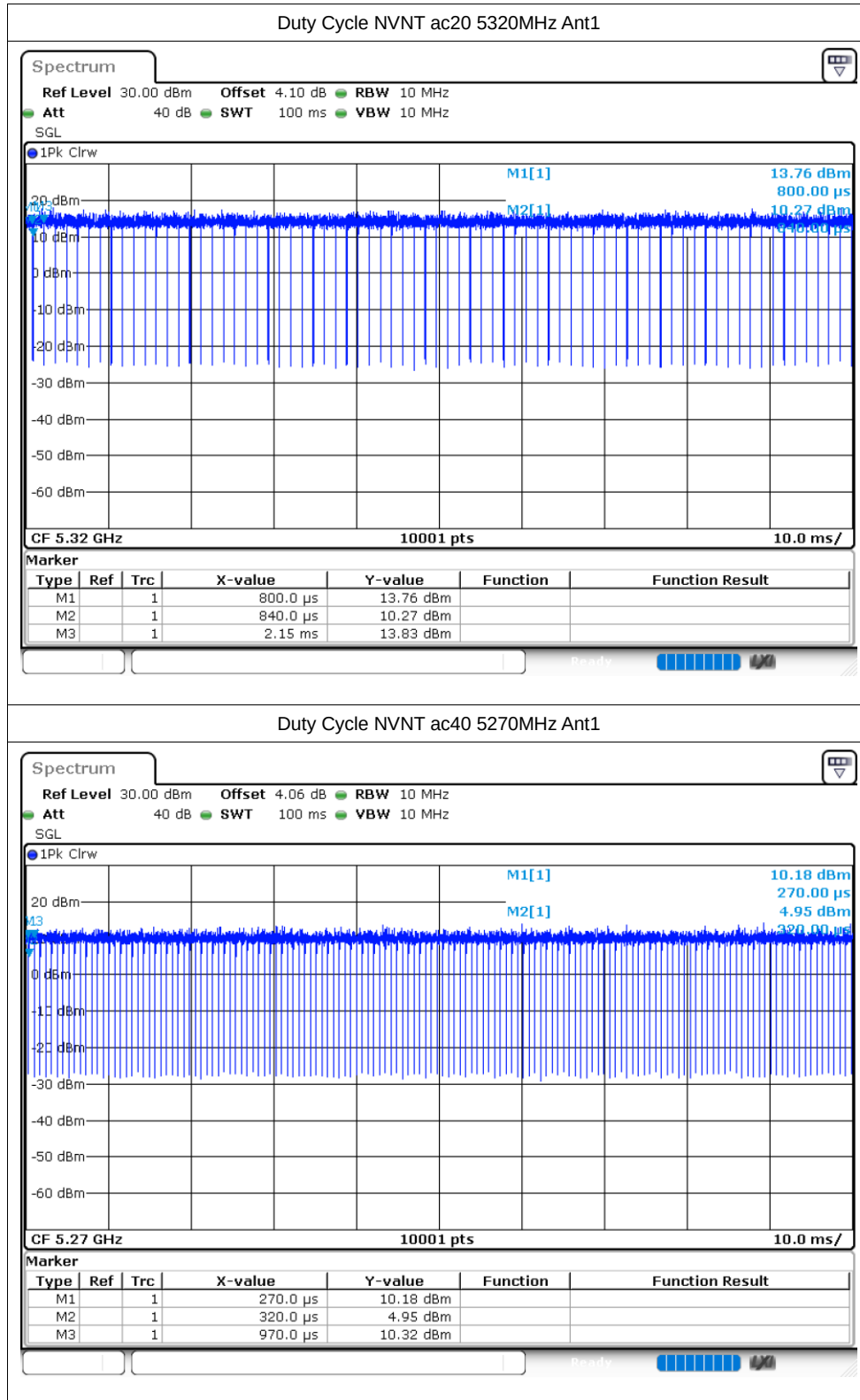


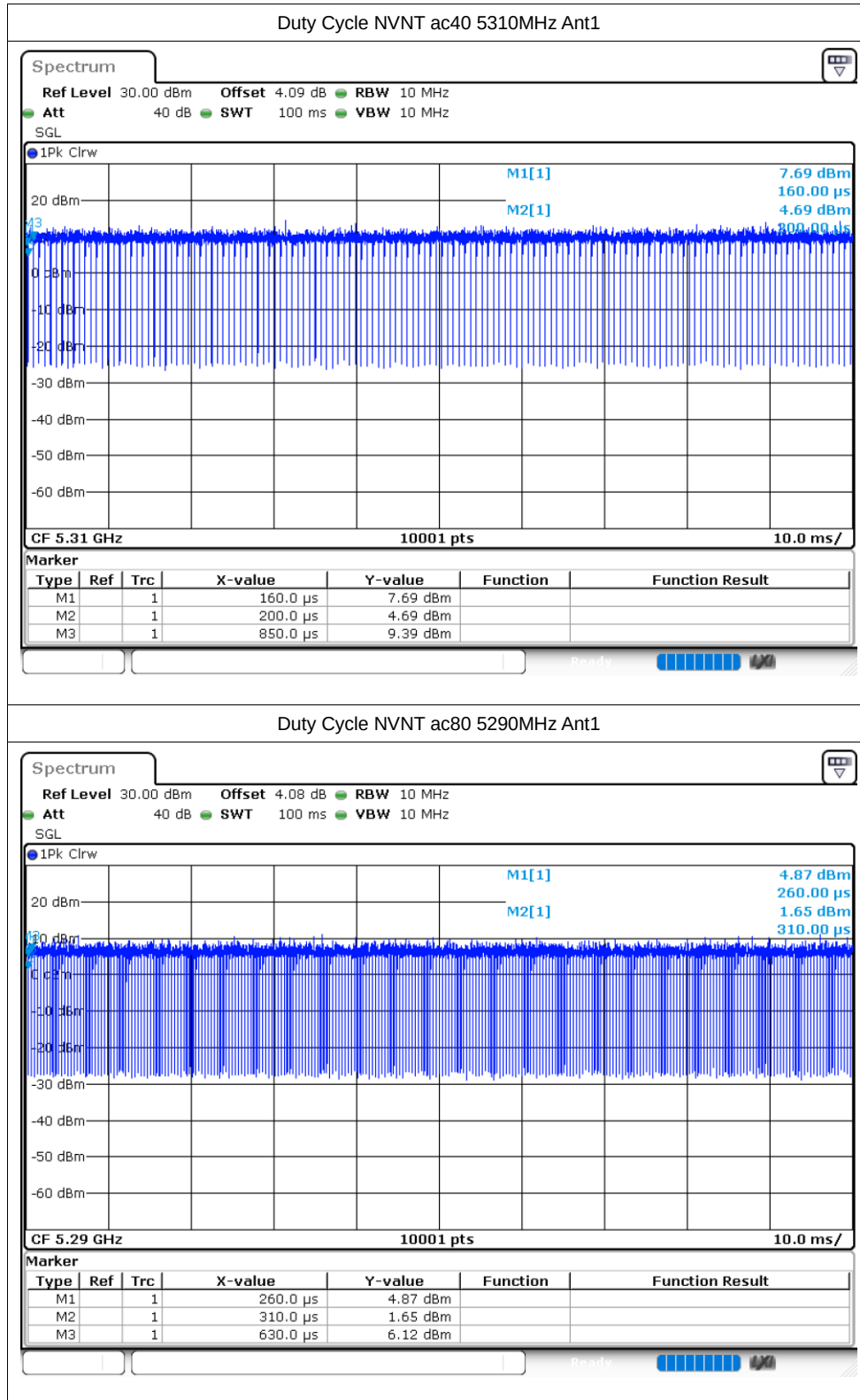












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	10.46	24	Pass
NVNT	a	5280	Ant1	10.22	24	Pass
NVNT	a	5320	Ant1	10.74	24	Pass
NVNT	n20	5260	Ant1	10.08	24	Pass
NVNT	n20	5280	Ant1	10.1	24	Pass
NVNT	n20	5320	Ant1	10.54	24	Pass
NVNT	n40	5270	Ant1	7.92	24	Pass
NVNT	n40	5310	Ant1	8.42	24	Pass
NVNT	ac20	5260	Ant1	10.46	24	Pass
NVNT	ac20	5280	Ant1	10.03	24	Pass
NVNT	ac20	5320	Ant1	10.48	24	Pass
NVNT	ac40	5270	Ant1	8.18	24	Pass
NVNT	ac40	5310	Ant1	8.43	24	Pass
NVNT	ac80	5290	Ant1	8.09	24	Pass

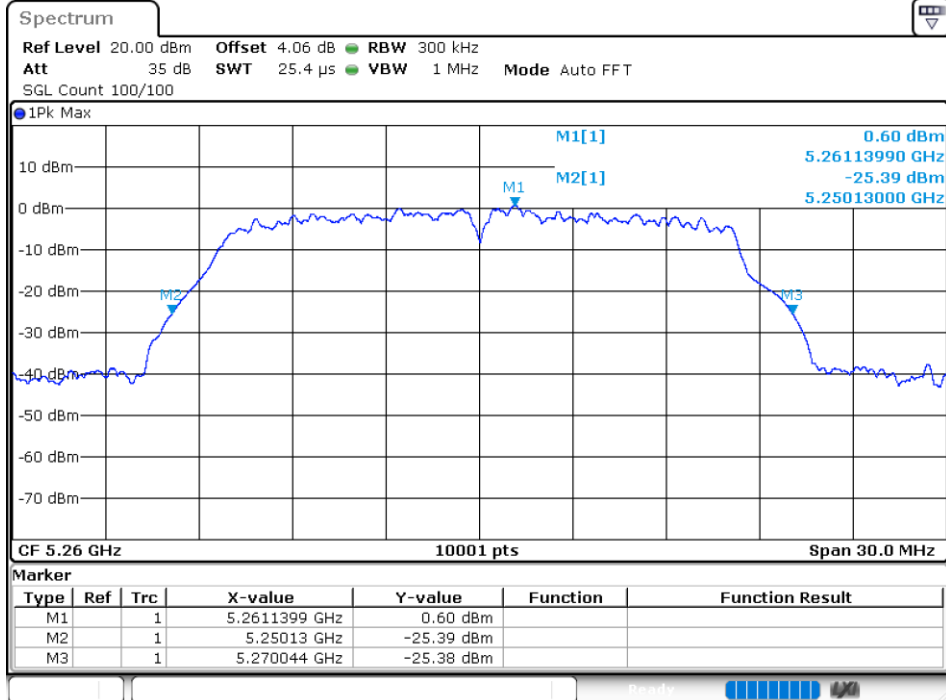
Note: The Duty Cycle factor has already been included.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	19.914	Pass
NVNT	a	5280	Ant1	19.761	Pass
NVNT	a	5320	Ant1	19.776	Pass
NVNT	n20	5260	Ant1	20.031	Pass
NVNT	n20	5280	Ant1	20.055	Pass
NVNT	n20	5320	Ant1	20.364	Pass
NVNT	n40	5270	Ant1	40.656	Pass
NVNT	n40	5310	Ant1	40.356	Pass
NVNT	ac20	5260	Ant1	20.304	Pass
NVNT	ac20	5280	Ant1	20.073	Pass
NVNT	ac20	5320	Ant1	20.154	Pass
NVNT	ac40	5270	Ant1	40.656	Pass
NVNT	ac40	5310	Ant1	40.404	Pass
NVNT	ac80	5290	Ant1	81.072	Pass

Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5280MHz Ant1

