

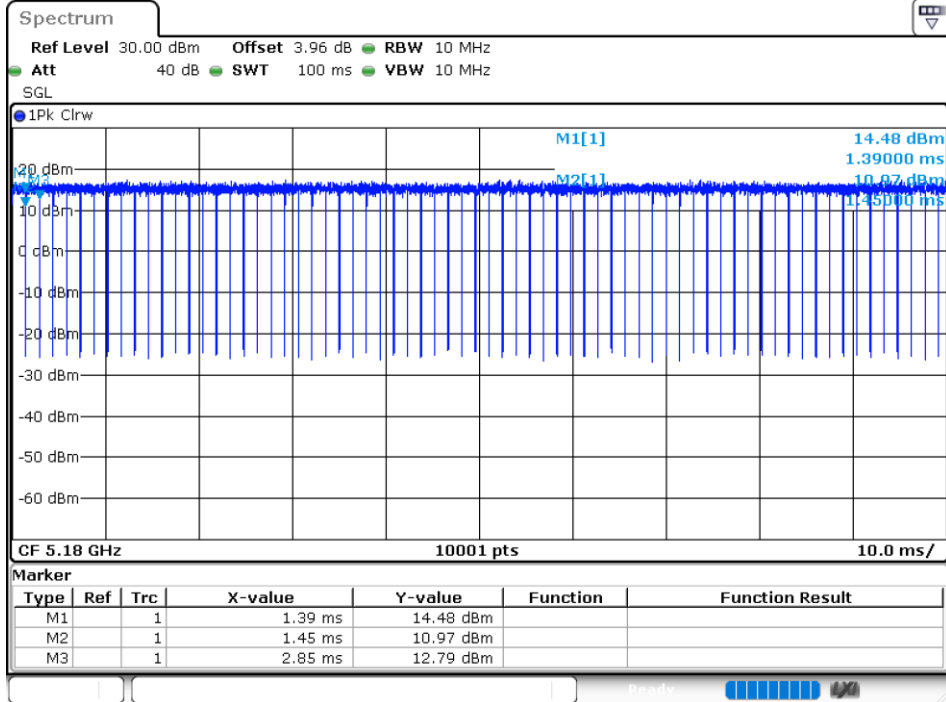
5.2G WIFI

Duty Cycle

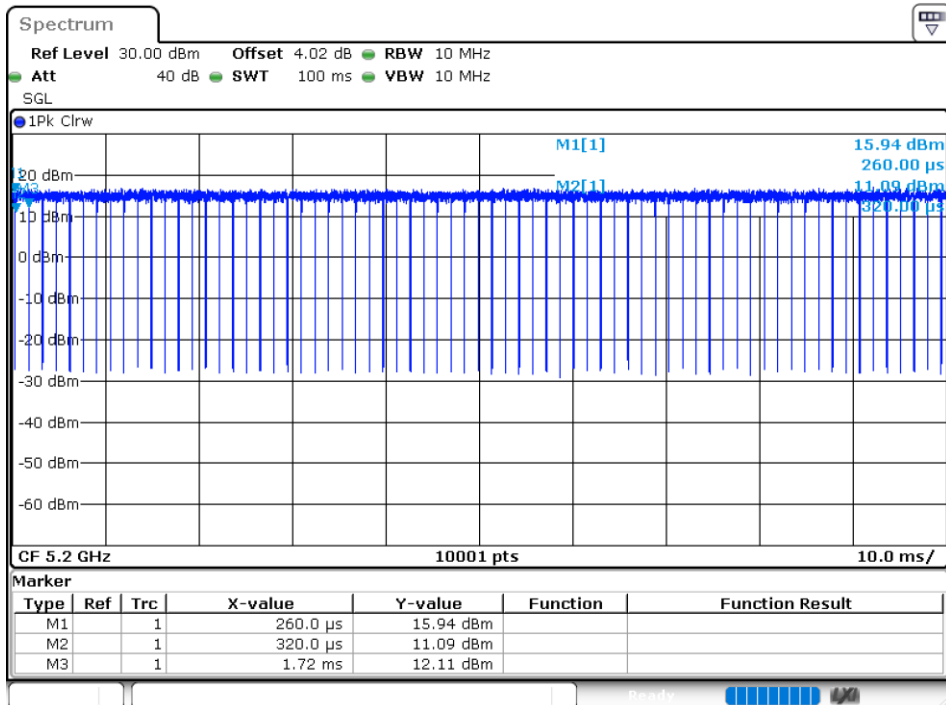
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	96.45	0.16	0.71
NVNT	a	5200	Ant1	96.42	0.16	0.71
NVNT	a	5240	Ant1	96.39	0.16	0.71
NVNT	n20	5180	Ant1	95.76	0.19	0.85
NVNT	n20	5200	Ant1	95.75	0.19	0.85
NVNT	n20	5240	Ant1	95.83	0.18	0.85
NVNT	n40	5190	Ant1	92.02	0.36	1.69
NVNT	n40	5230	Ant1	92.02	0.36	1.72
NVNT	ac20	5180	Ant1	95.76	0.19	0.84
NVNT	ac20	5200	Ant1	95.76	0.19	0.84
NVNT	ac20	5240	Ant1	95.64	0.19	0.84
NVNT	ac40	5190	Ant1	92.07	0.36	1.67
NVNT	ac40	5230	Ant1	92.15	0.36	1.69
NVNT	ac80	5210	Ant1	85.5	0.68	3.33

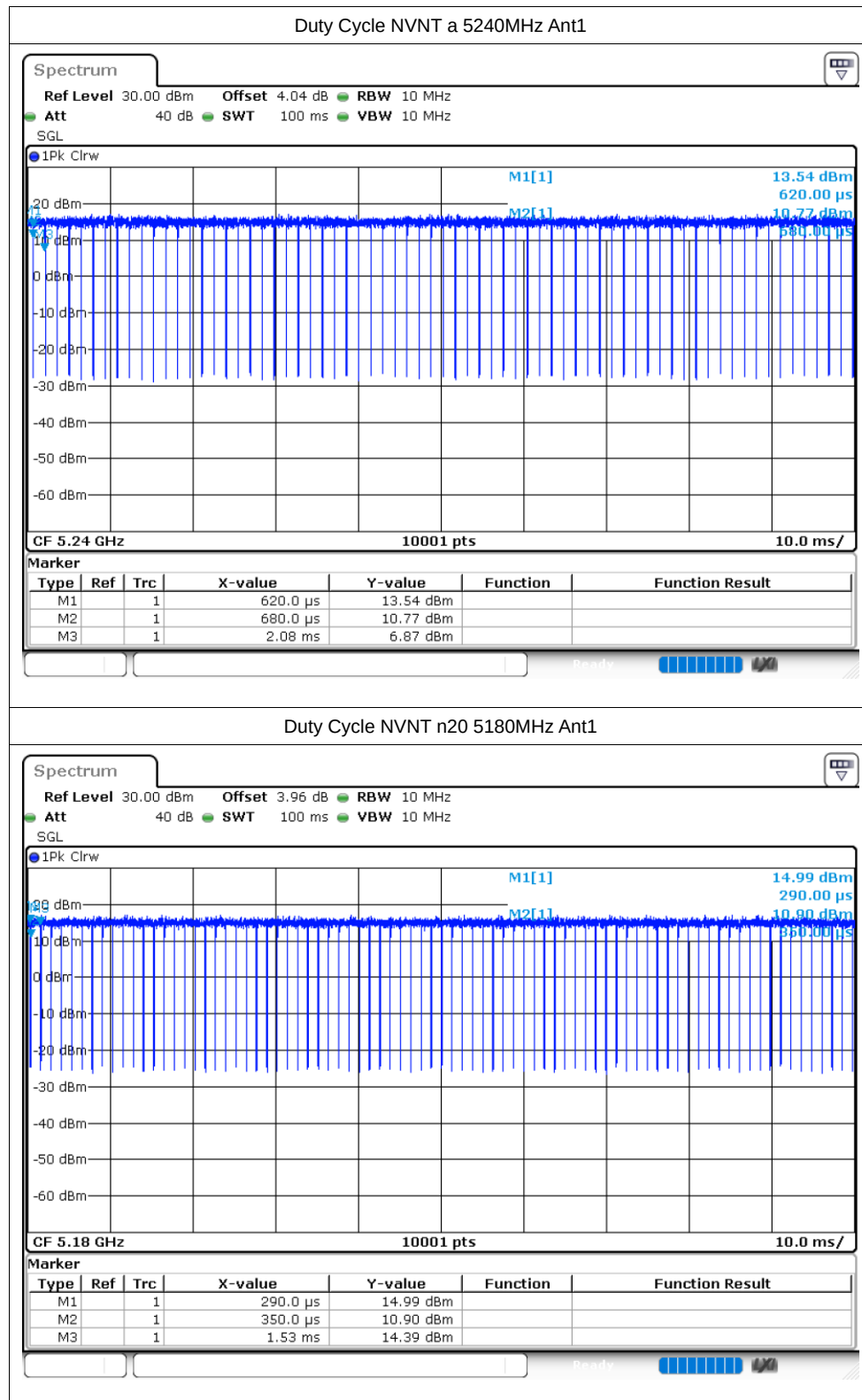
Test Graphs

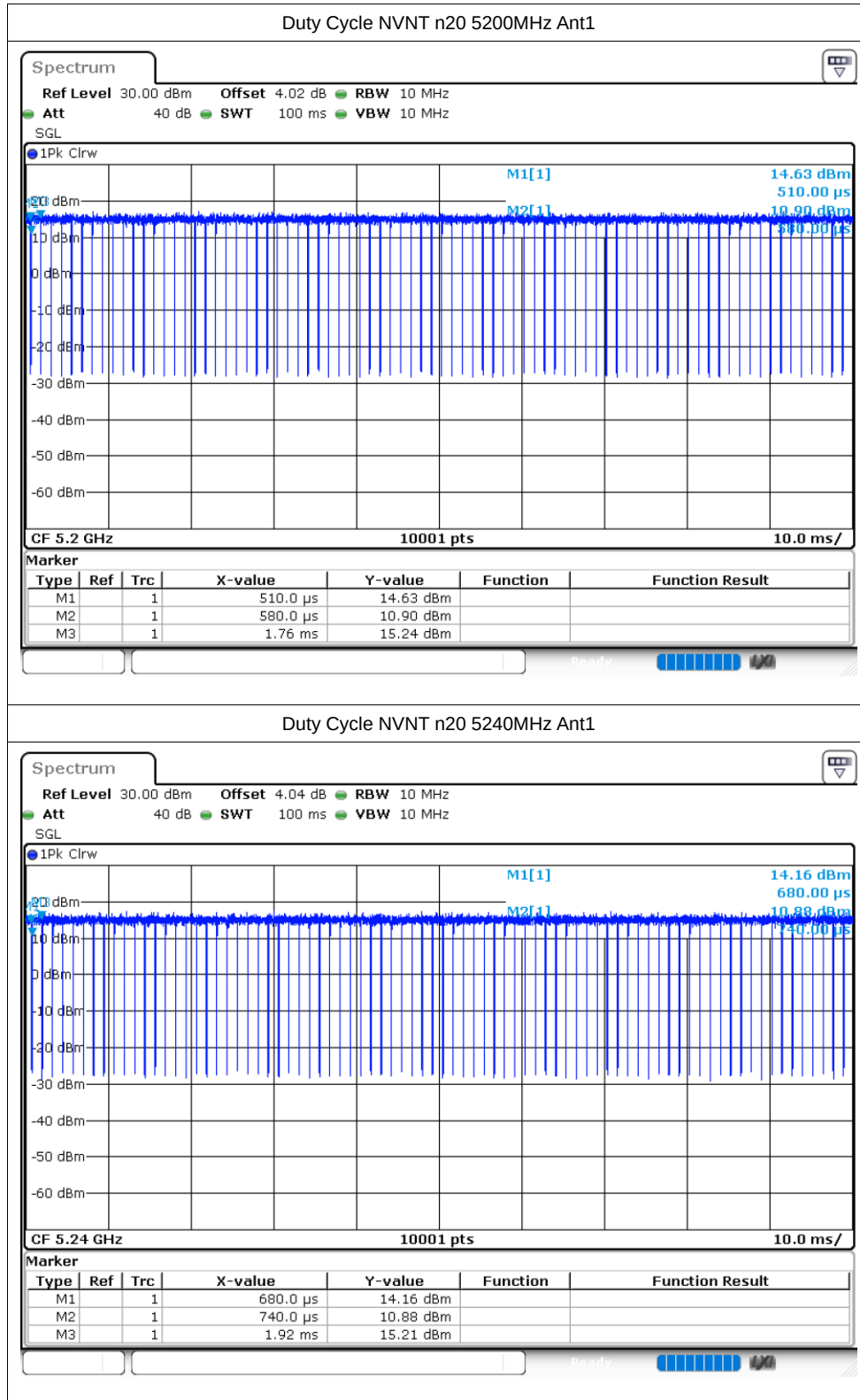
Duty Cycle NVNT a 5180MHz Ant1

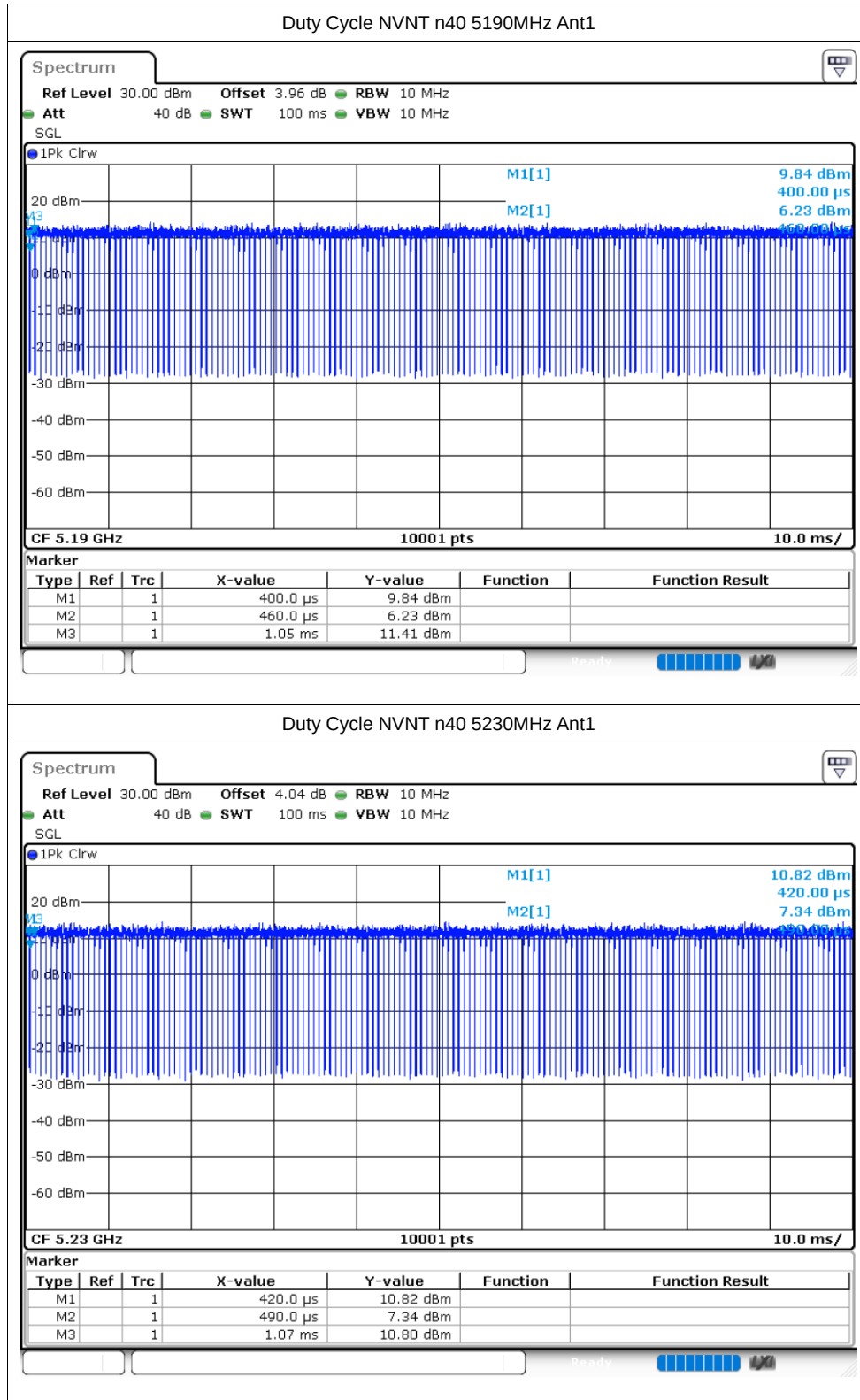


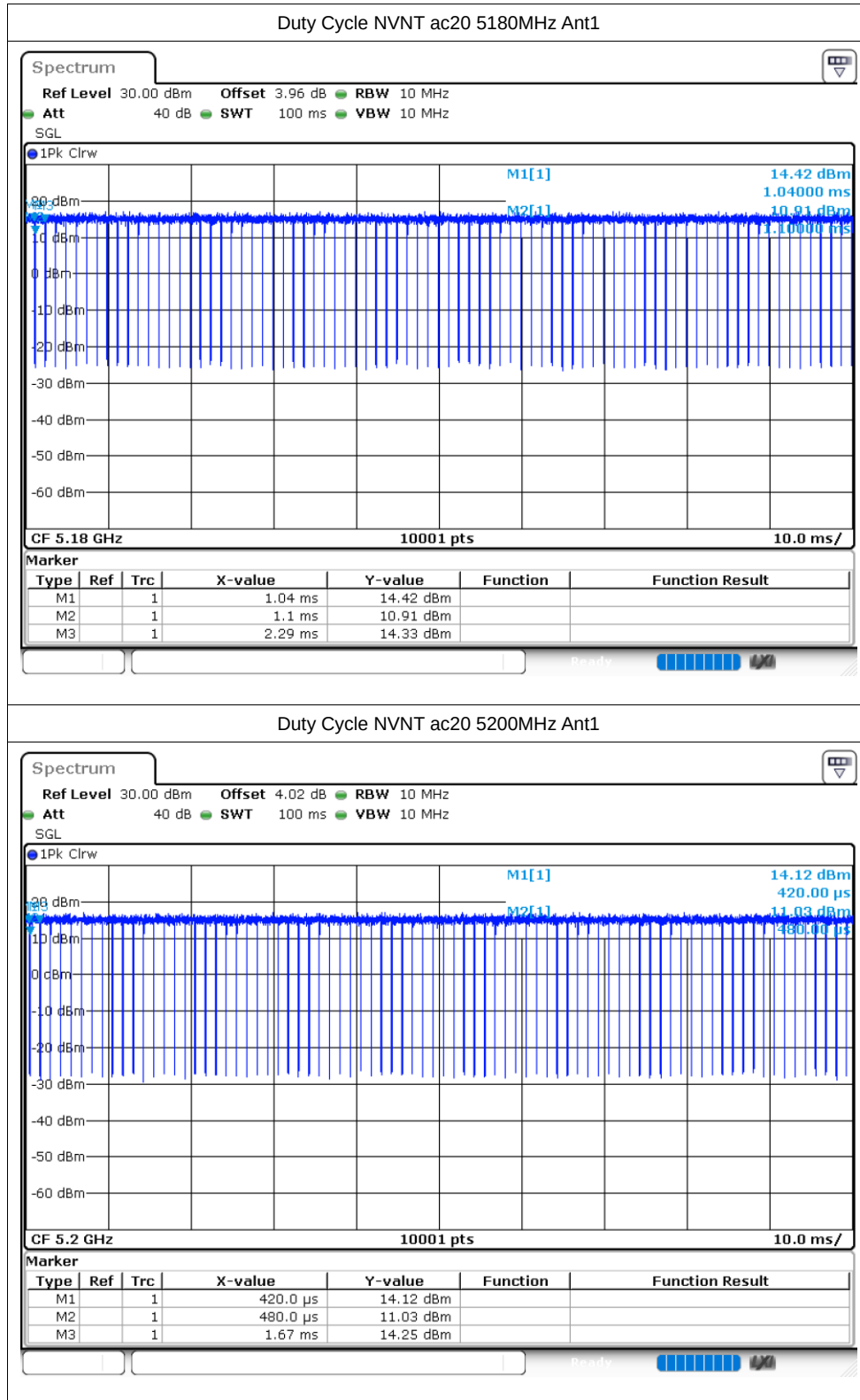
Duty Cycle NVNT a 5200MHz Ant1

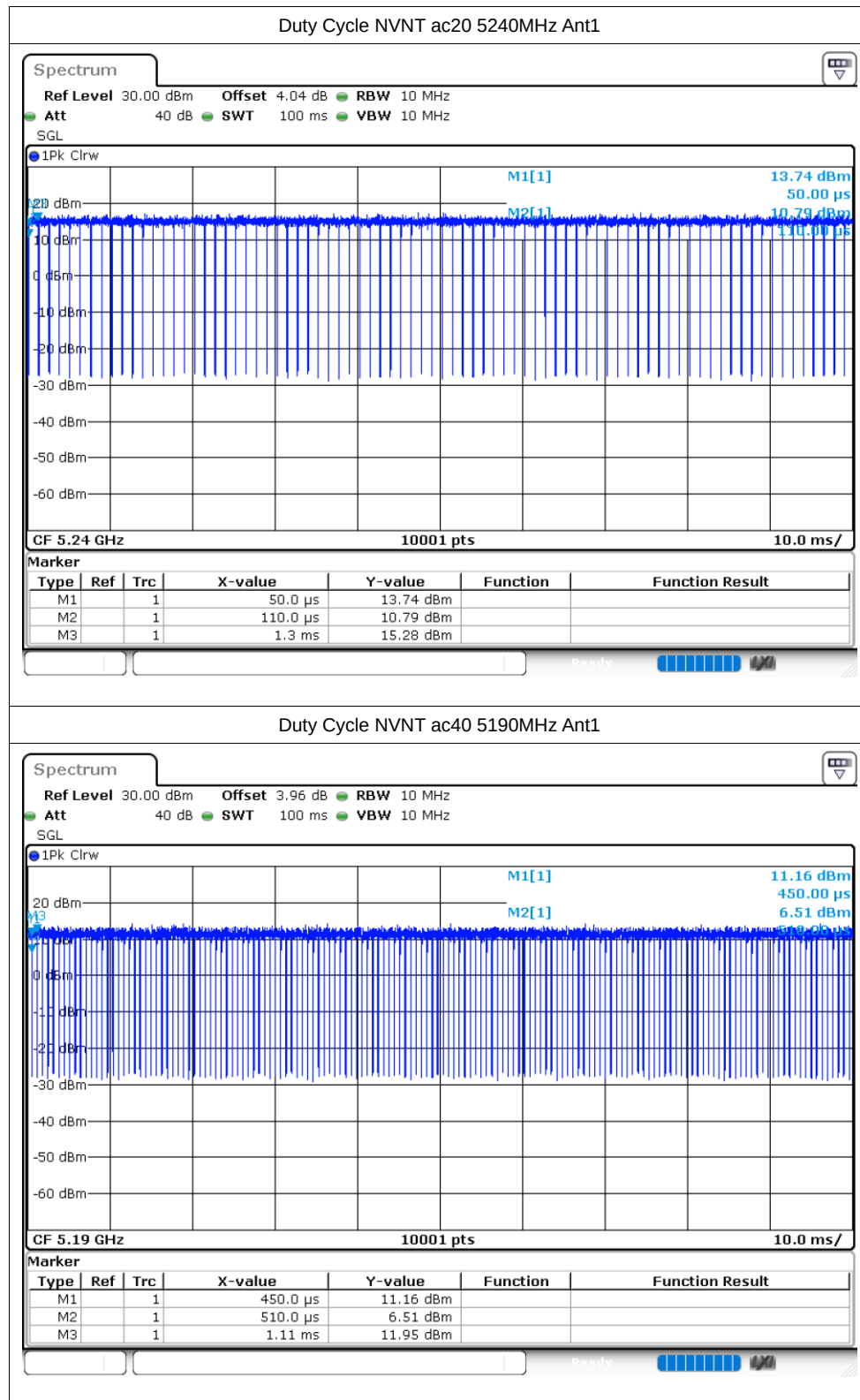


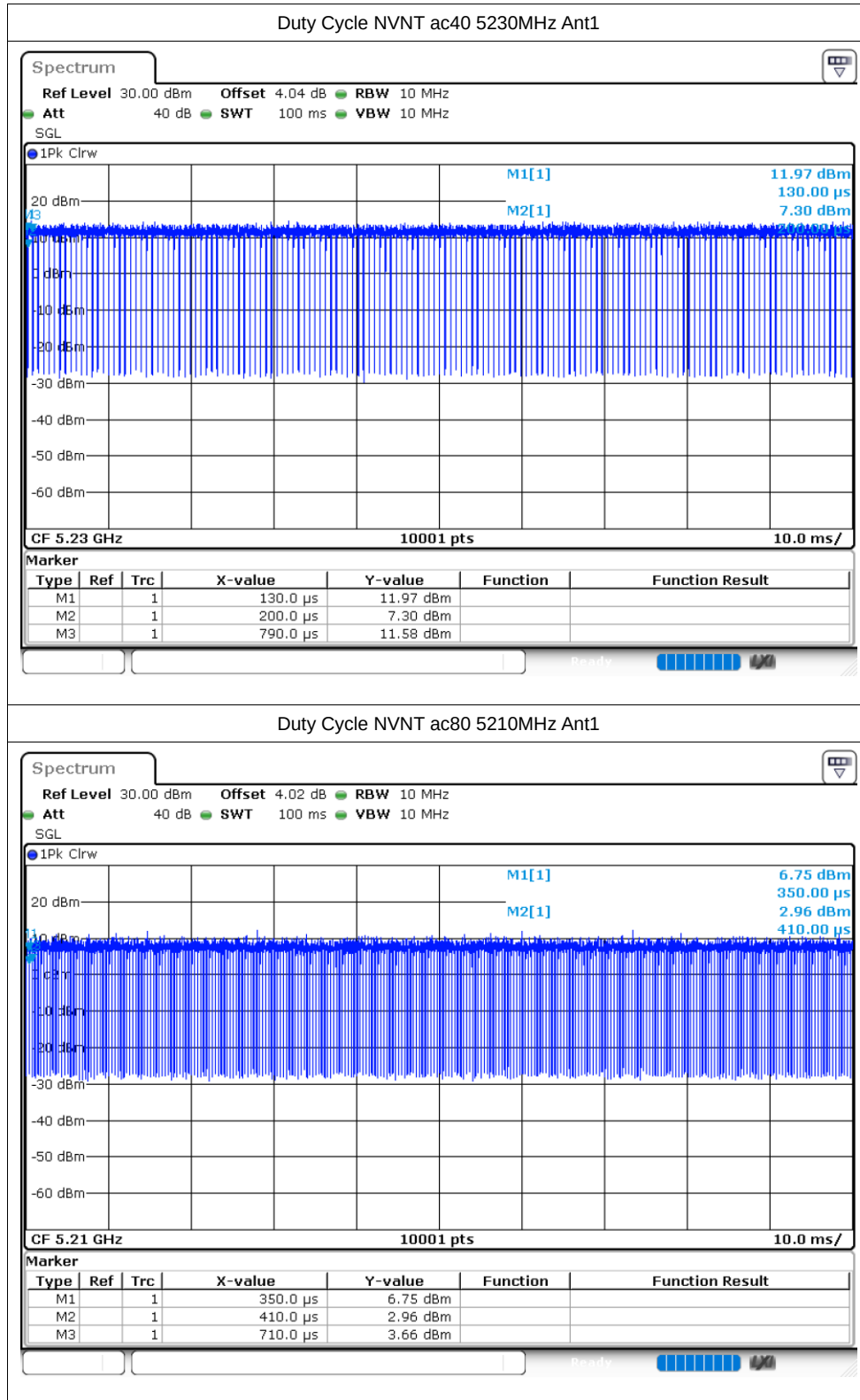












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.13	24	Pass
NVNT	a	5200	Ant1	10.93	24	Pass
NVNT	a	5240	Ant1	11.48	24	Pass
NVNT	n20	5180	Ant1	11.26	24	Pass
NVNT	n20	5200	Ant1	11.32	24	Pass
NVNT	n20	5240	Ant1	11.84	24	Pass
NVNT	n40	5190	Ant1	10.25	24	Pass
NVNT	n40	5230	Ant1	10.95	24	Pass
NVNT	ac20	5180	Ant1	11.11	24	Pass
NVNT	ac20	5200	Ant1	11.13	24	Pass
NVNT	ac20	5240	Ant1	11.5	24	Pass
NVNT	ac40	5190	Ant1	10.6	24	Pass
NVNT	ac40	5230	Ant1	11.04	24	Pass
NVNT	ac80	5210	Ant1	10.67	24	Pass

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	26.592	0.5	Pass
NVNT	a	5200	Ant1	19.359	0.5	Pass
NVNT	a	5240	Ant1	19.689	0.5	Pass
NVNT	n20	5180	Ant1	21.369	0.5	Pass
NVNT	n20	5200	Ant1	21.963	0.5	Pass
NVNT	n20	5240	Ant1	22.011	0.5	Pass
NVNT	n40	5190	Ant1	55.602	0.5	Pass
NVNT	n40	5230	Ant1	51.276	0.5	Pass
NVNT	ac20	5180	Ant1	21.738	0.5	Pass
NVNT	ac20	5200	Ant1	23.082	0.5	Pass
NVNT	ac20	5240	Ant1	21.48	0.5	Pass
NVNT	ac40	5190	Ant1	52.038	0.5	Pass
NVNT	ac40	5230	Ant1	48.87	0.5	Pass
NVNT	ac80	5210	Ant1	86.184	0.5	Pass

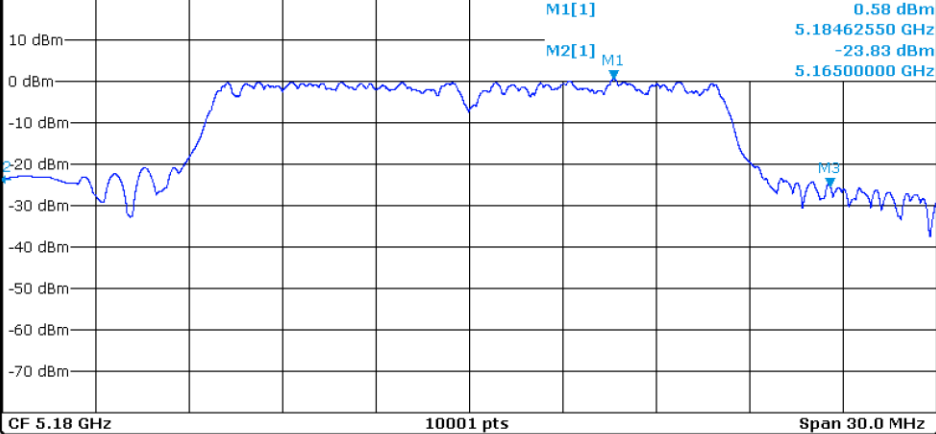
Test Graphs

-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



Marker

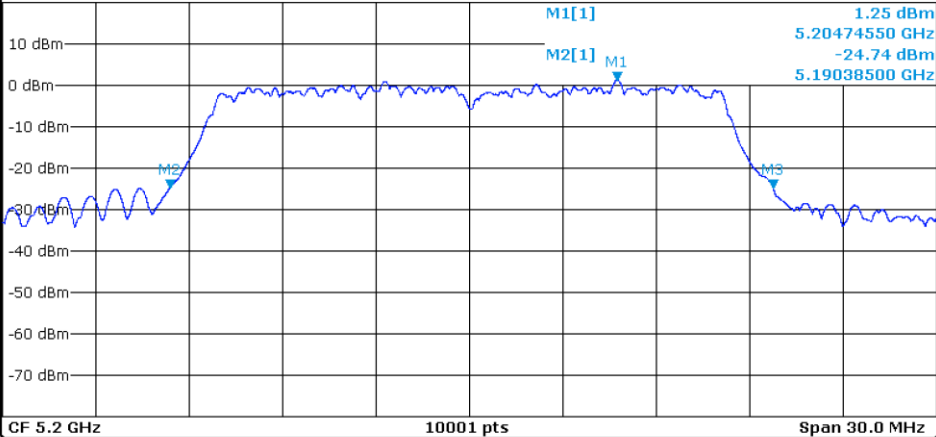
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1846255 GHz	0.58 dBm		
M2	1		5.165 GHz	-23.83 dBm		
M3	1		5.191592 GHz	-25.38 dBm		

-26dB Bandwidth NVNT a 5200MHz Ant1

Spectrum

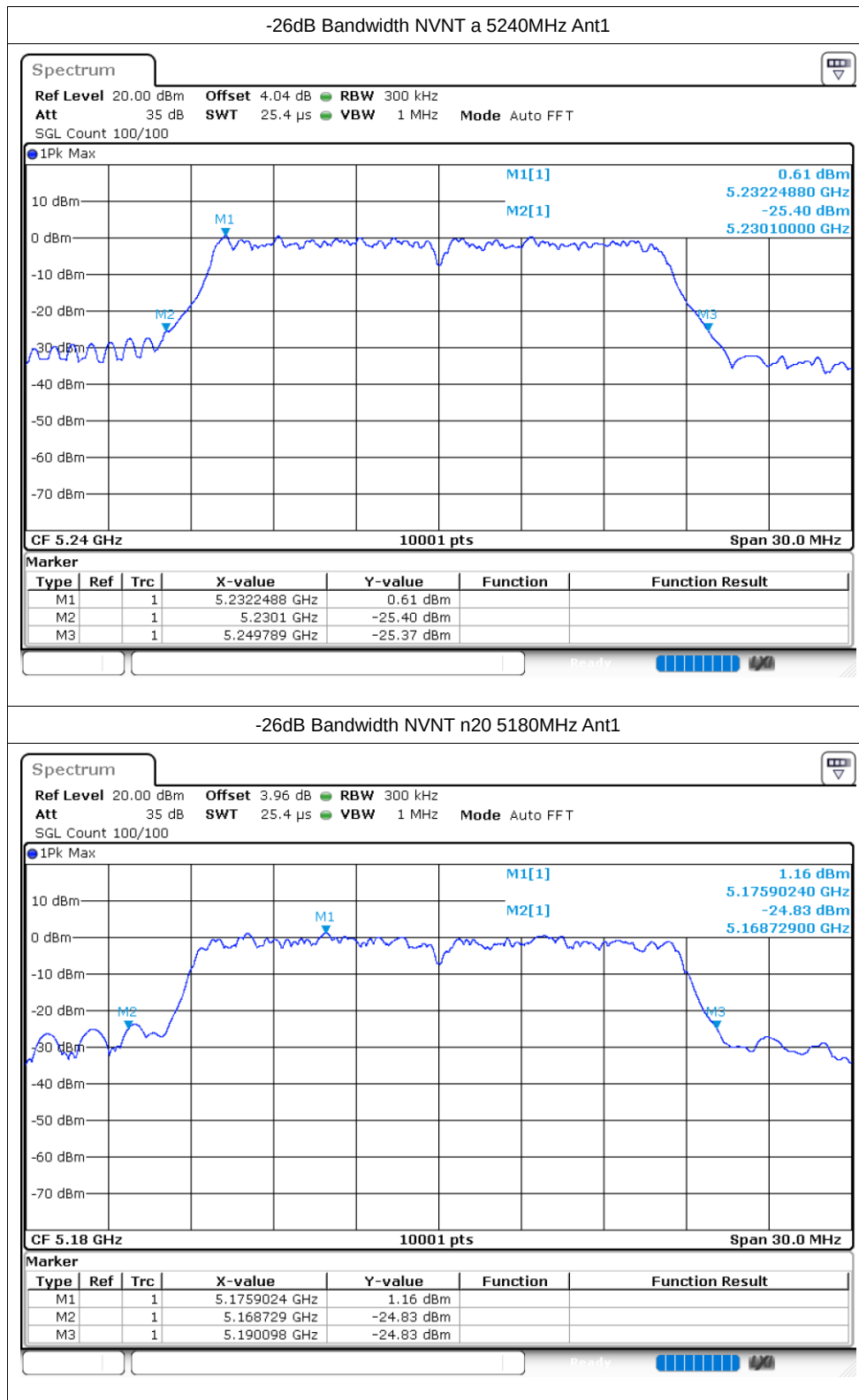
Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

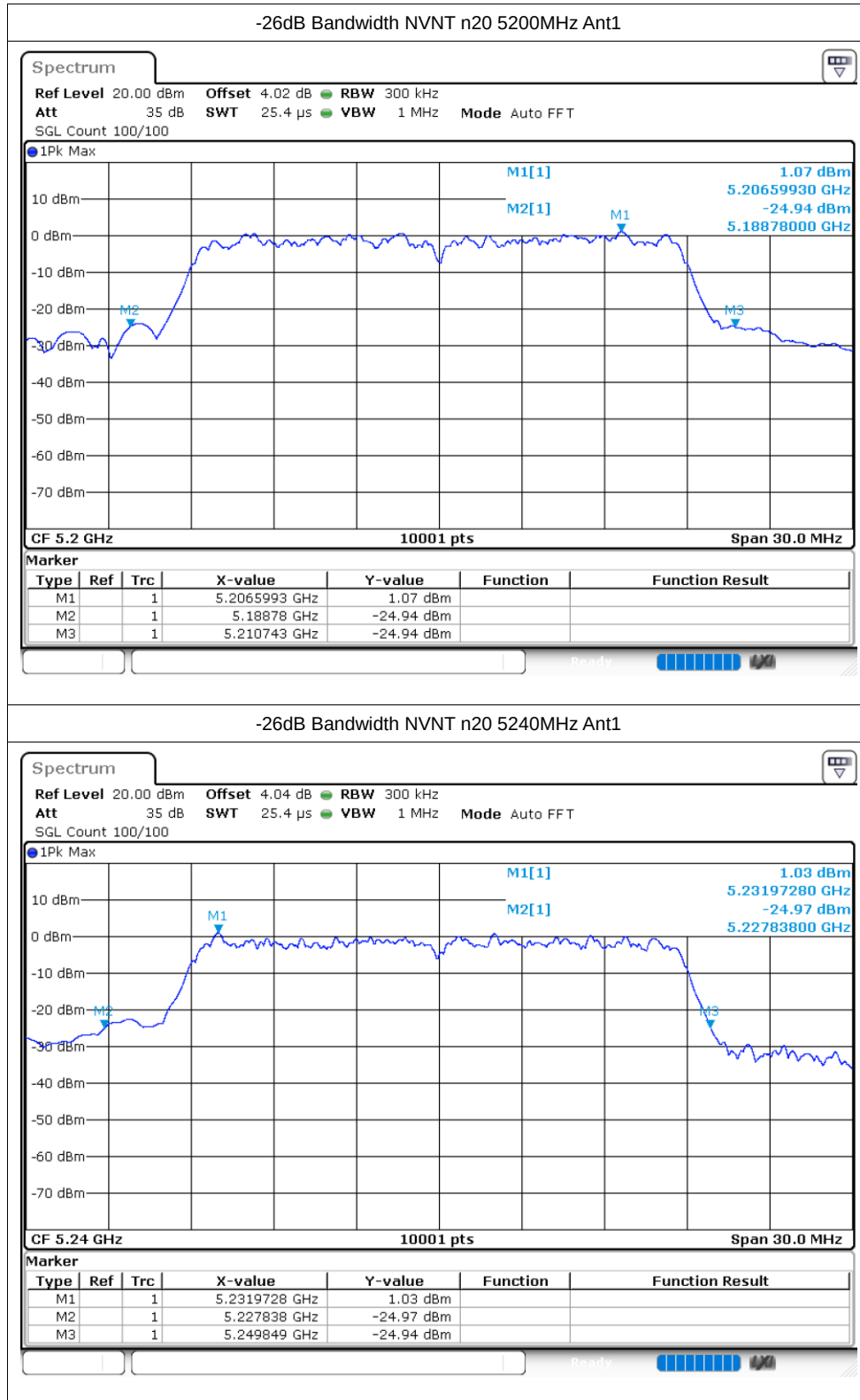
1Pk Max

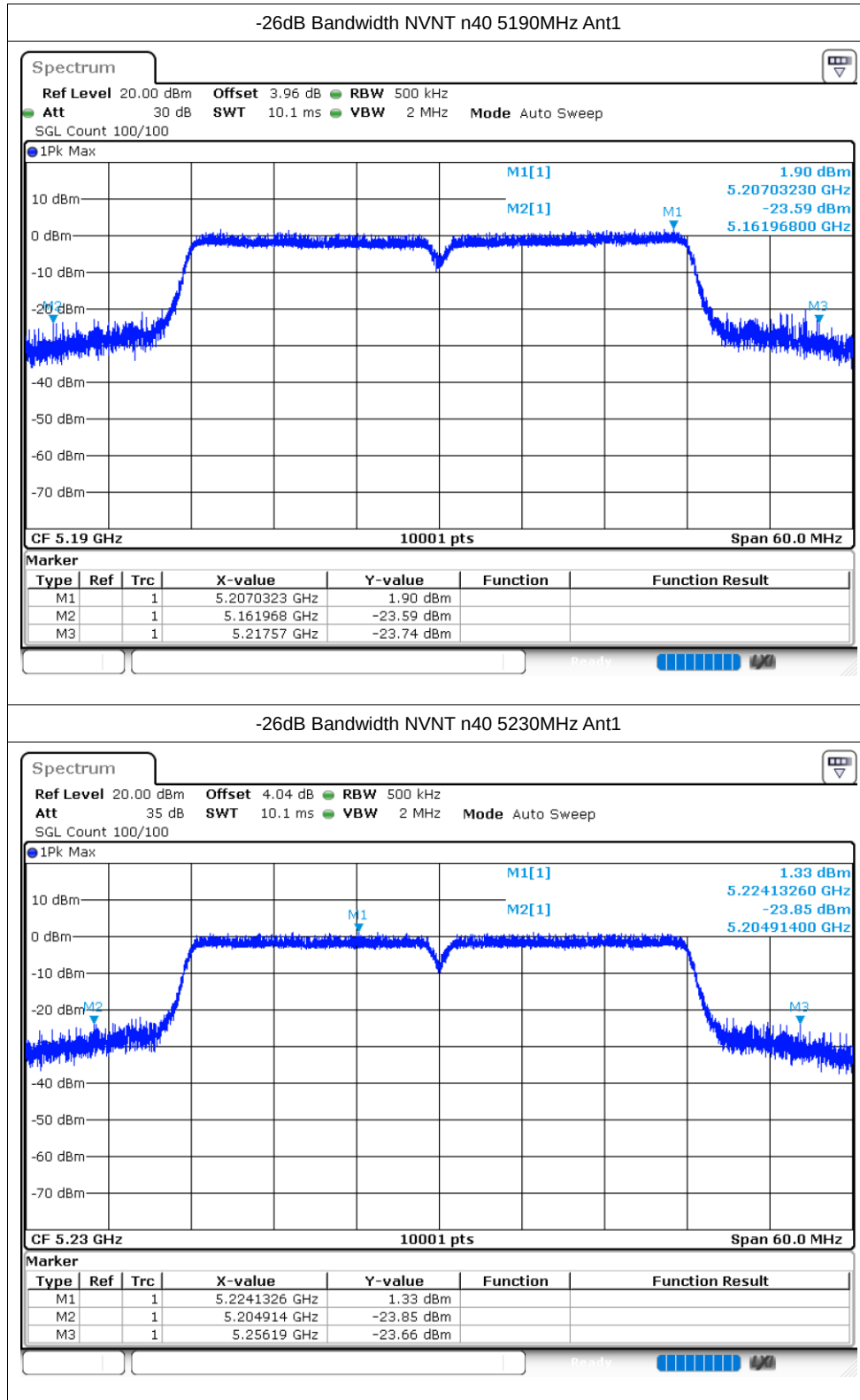


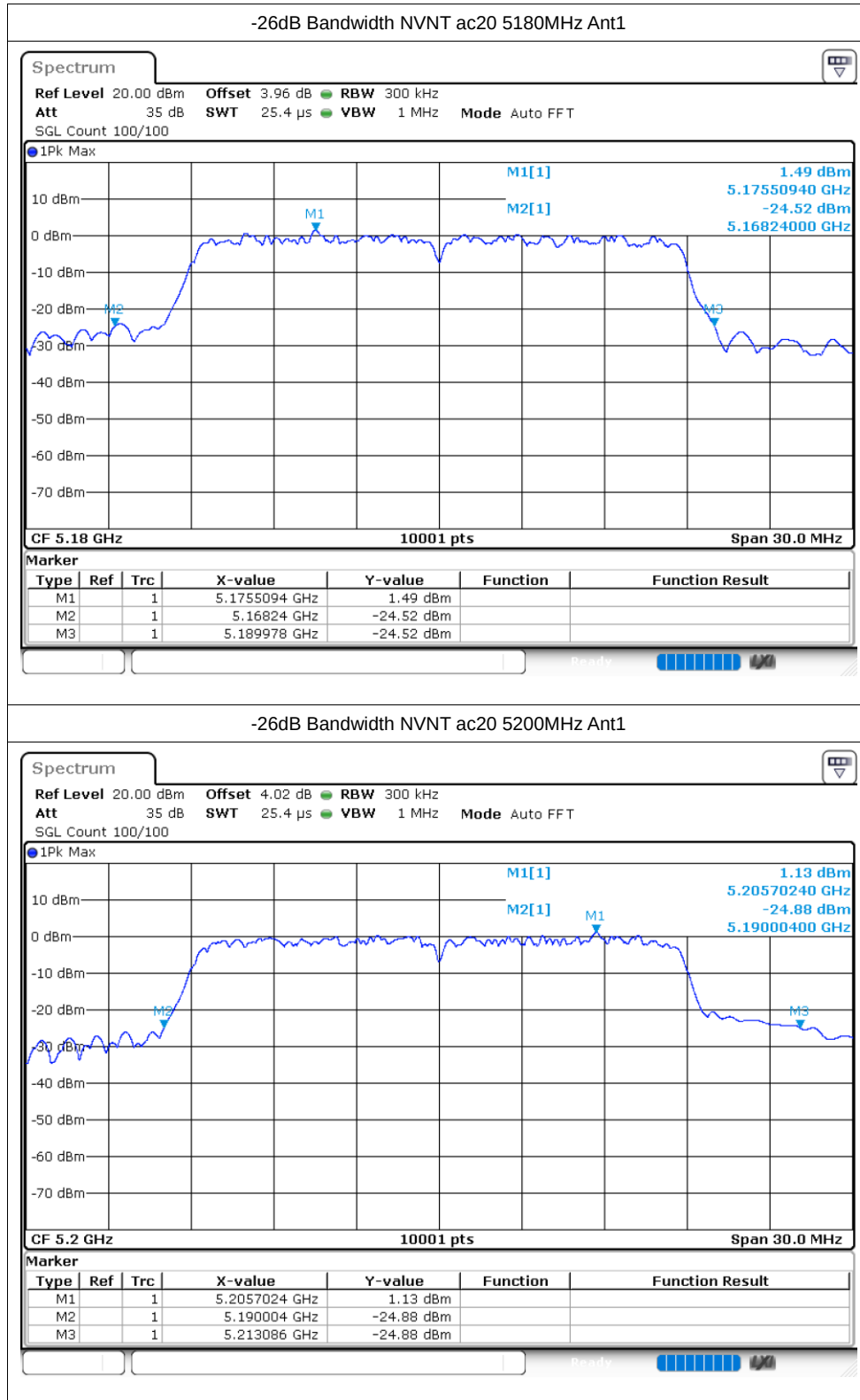
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.2047455 GHz	1.25 dBm		
M2	1		5.190385 GHz	-24.74 dBm		
M3	1		5.209744 GHz	-24.73 dBm		







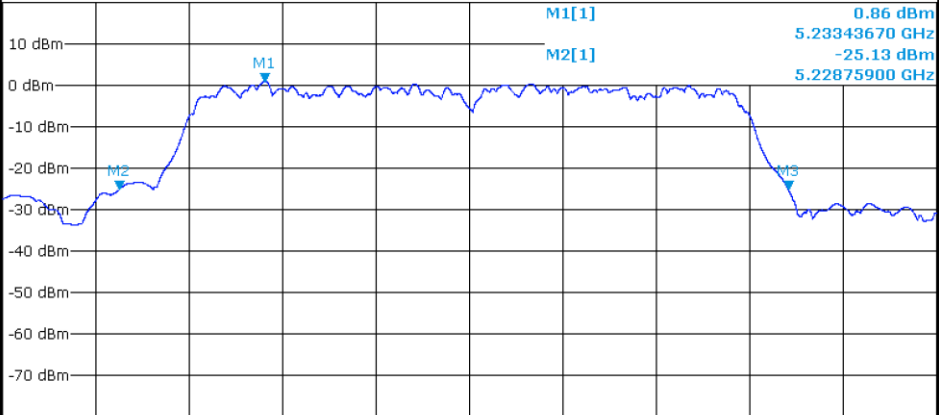


-26dB Bandwidth NVNT ac20 5240MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.04 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

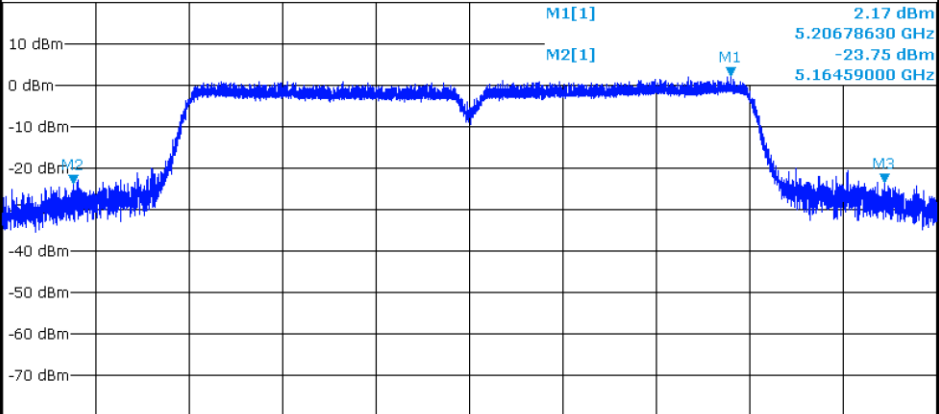
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2334367 GHz	0.86 dBm		
M2		1	5.228759 GHz	-25.13 dBm		
M3		1	5.250239 GHz	-25.12 dBm		

-26dB Bandwidth NVNT ac40 5190MHz Ant1

Spectrum

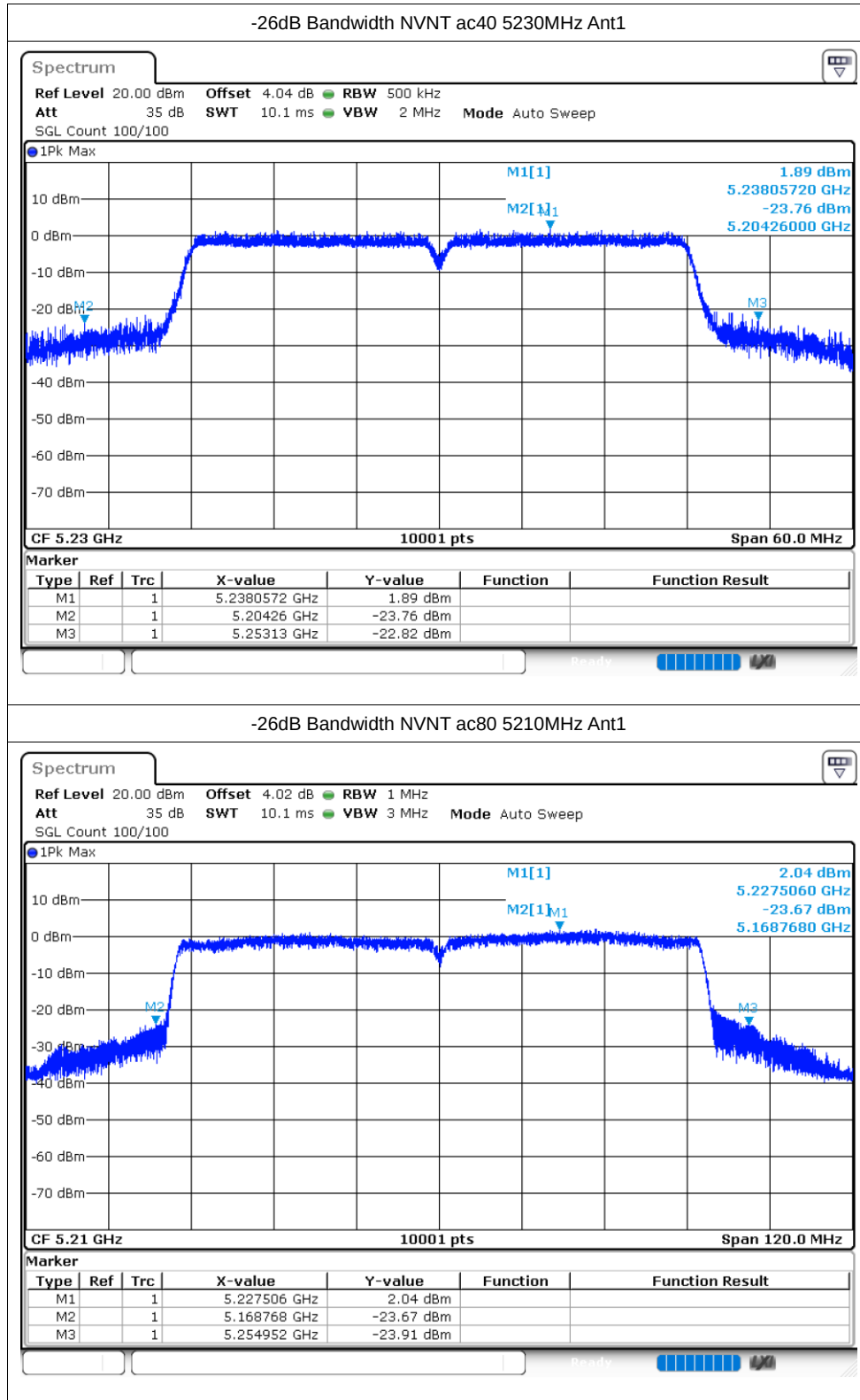
Ref Level 20.00 dBm Offset 3.96 dB RBW 500 kHz
Att 35 dB SWT 10.1 ms VBW 2 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.2067863 GHz	2.17 dBm		
M2		1	5.16459 GHz	-23.75 dBm		
M3		1	5.216628 GHz	-23.42 dBm		

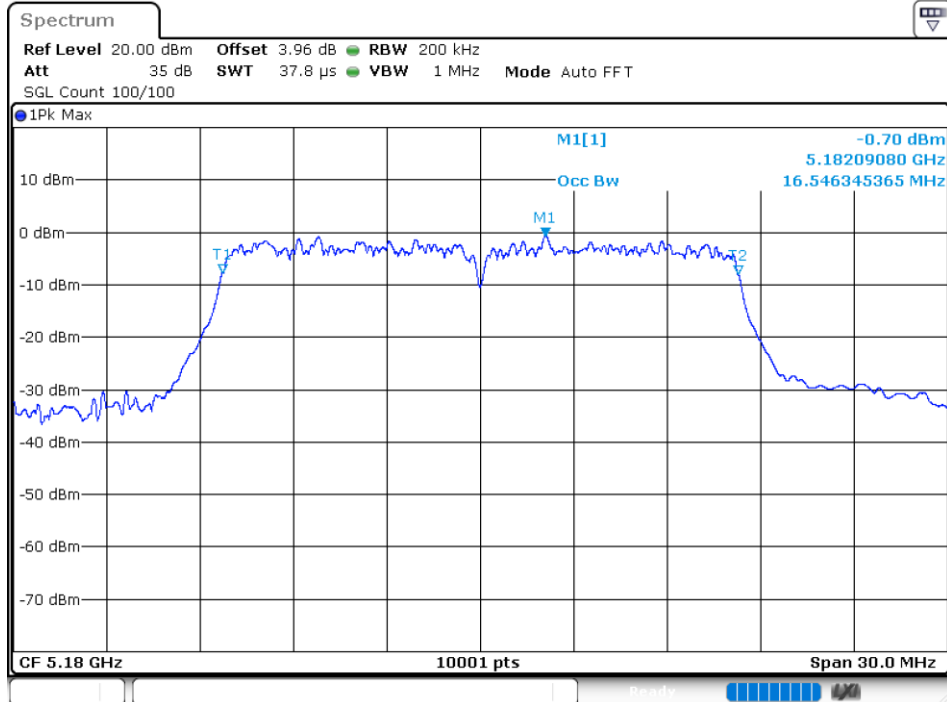


Occupied Channel Bandwidth

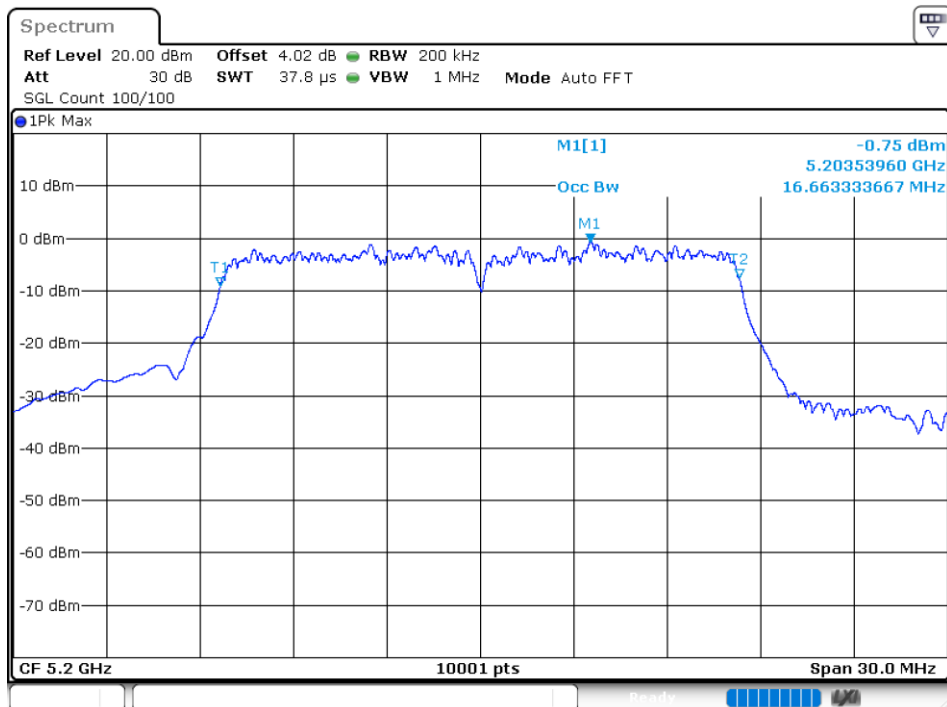
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.546
NVNT	a	5200	Ant1	16.663
NVNT	a	5240	Ant1	16.441
NVNT	n20	5180	Ant1	17.581
NVNT	n20	5200	Ant1	17.563
NVNT	n20	5240	Ant1	17.662
NVNT	n40	5190	Ant1	36.422
NVNT	n40	5230	Ant1	36.332
NVNT	ac20	5180	Ant1	17.668
NVNT	ac20	5200	Ant1	17.617
NVNT	ac20	5240	Ant1	17.626
NVNT	ac40	5190	Ant1	36.428
NVNT	ac40	5230	Ant1	36.29
NVNT	ac80	5210	Ant1	75.472

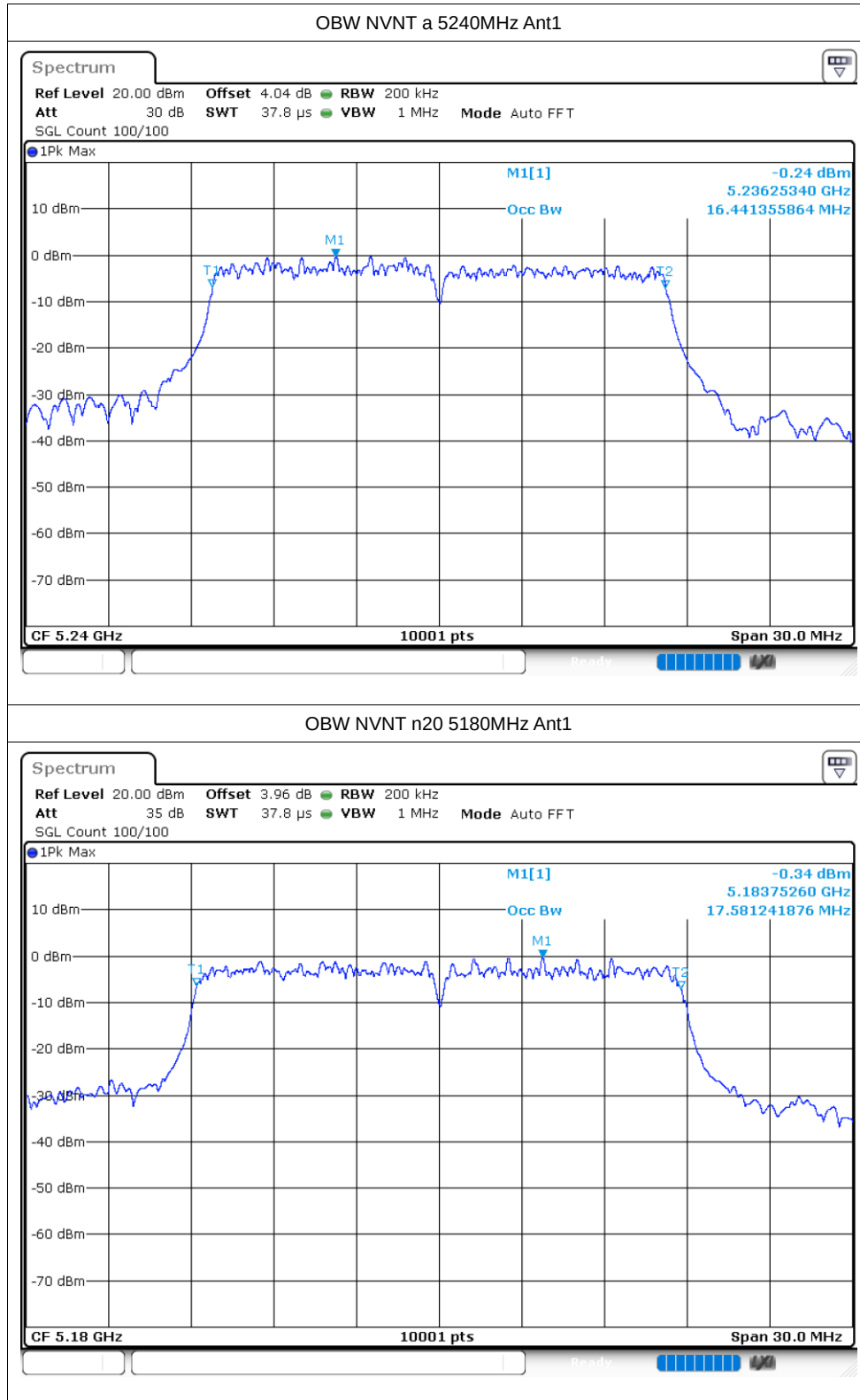
Test Graphs

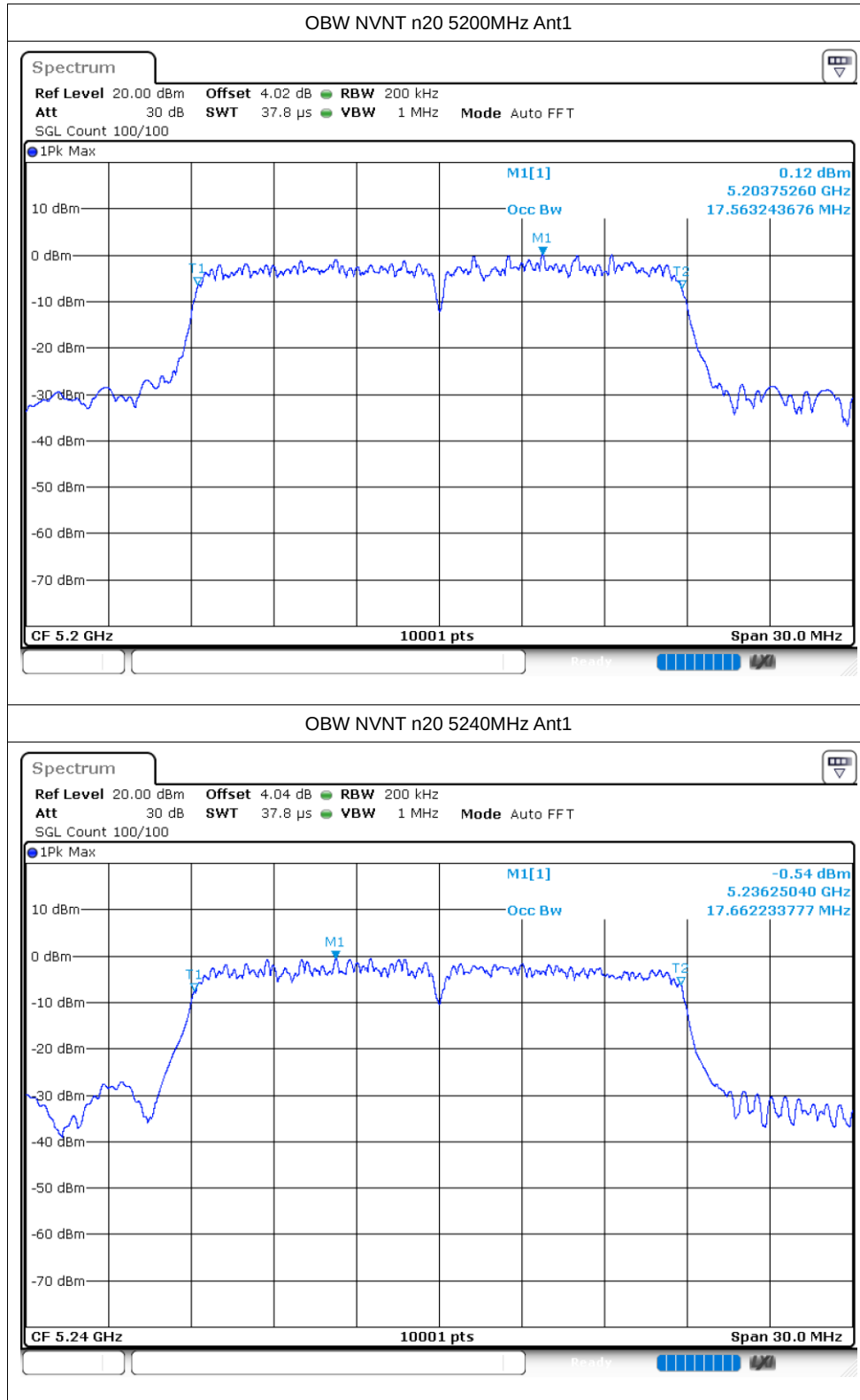
OBW NVNT a 5180MHz Ant1

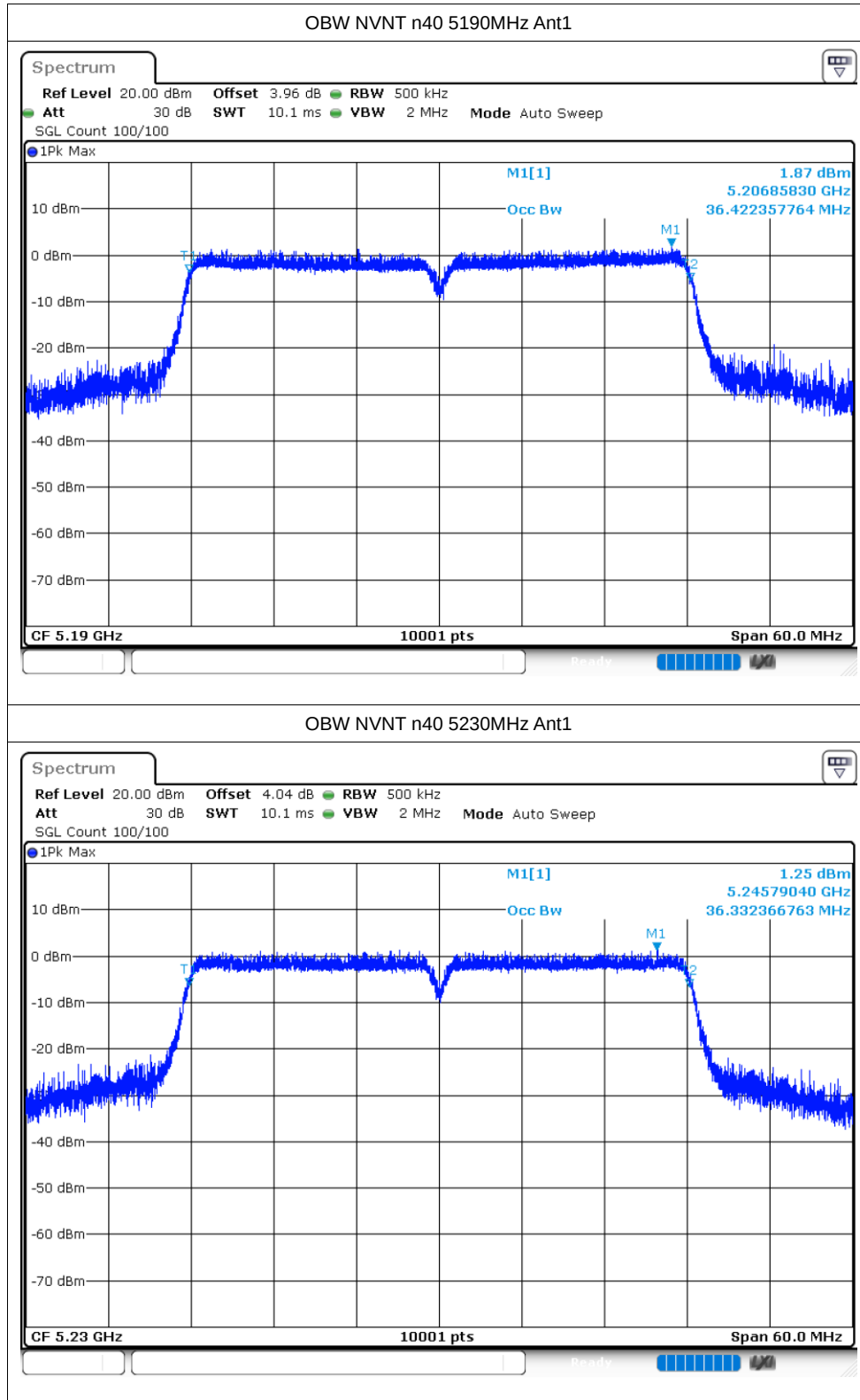


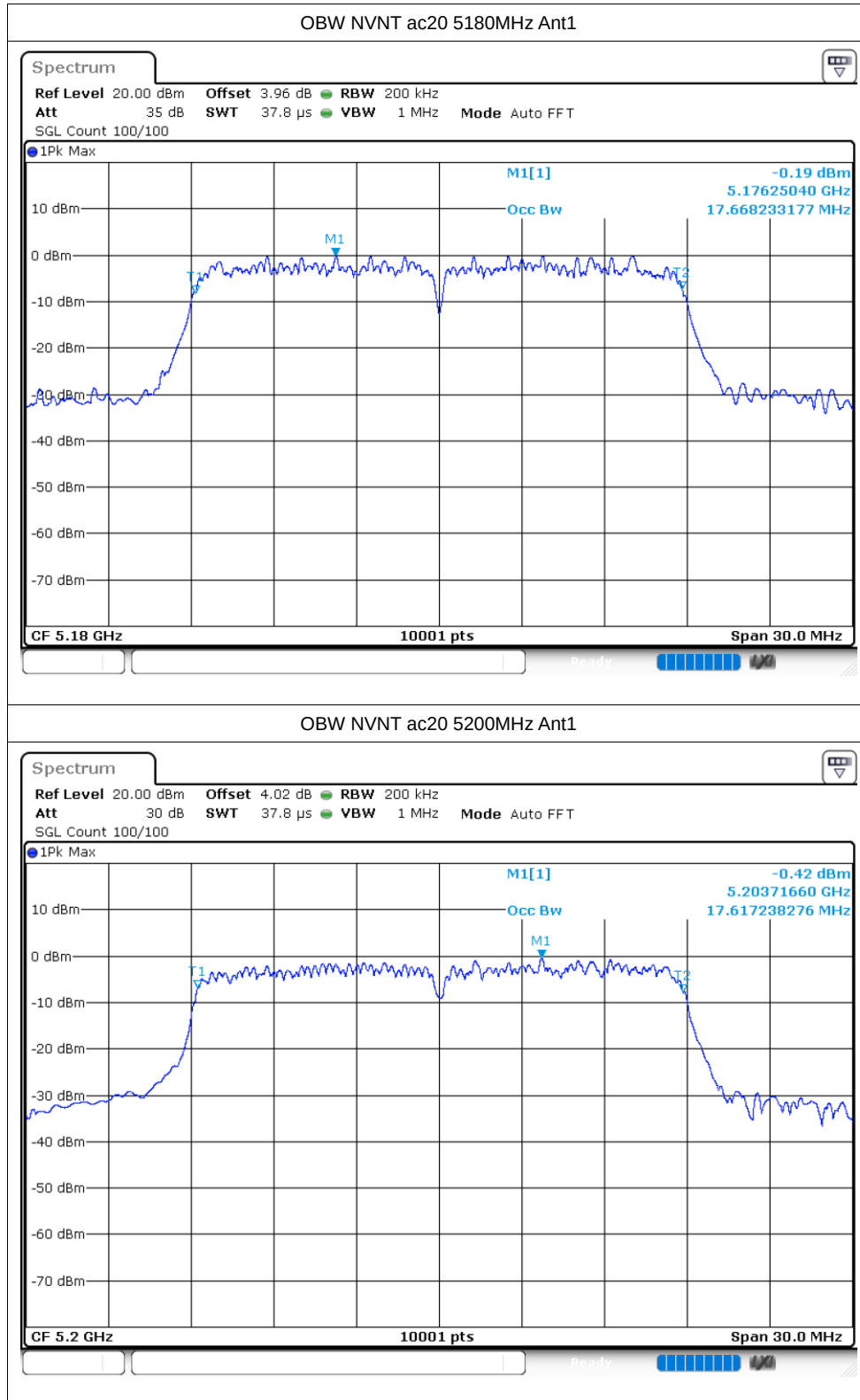
OBW NVNT a 5200MHz Ant1

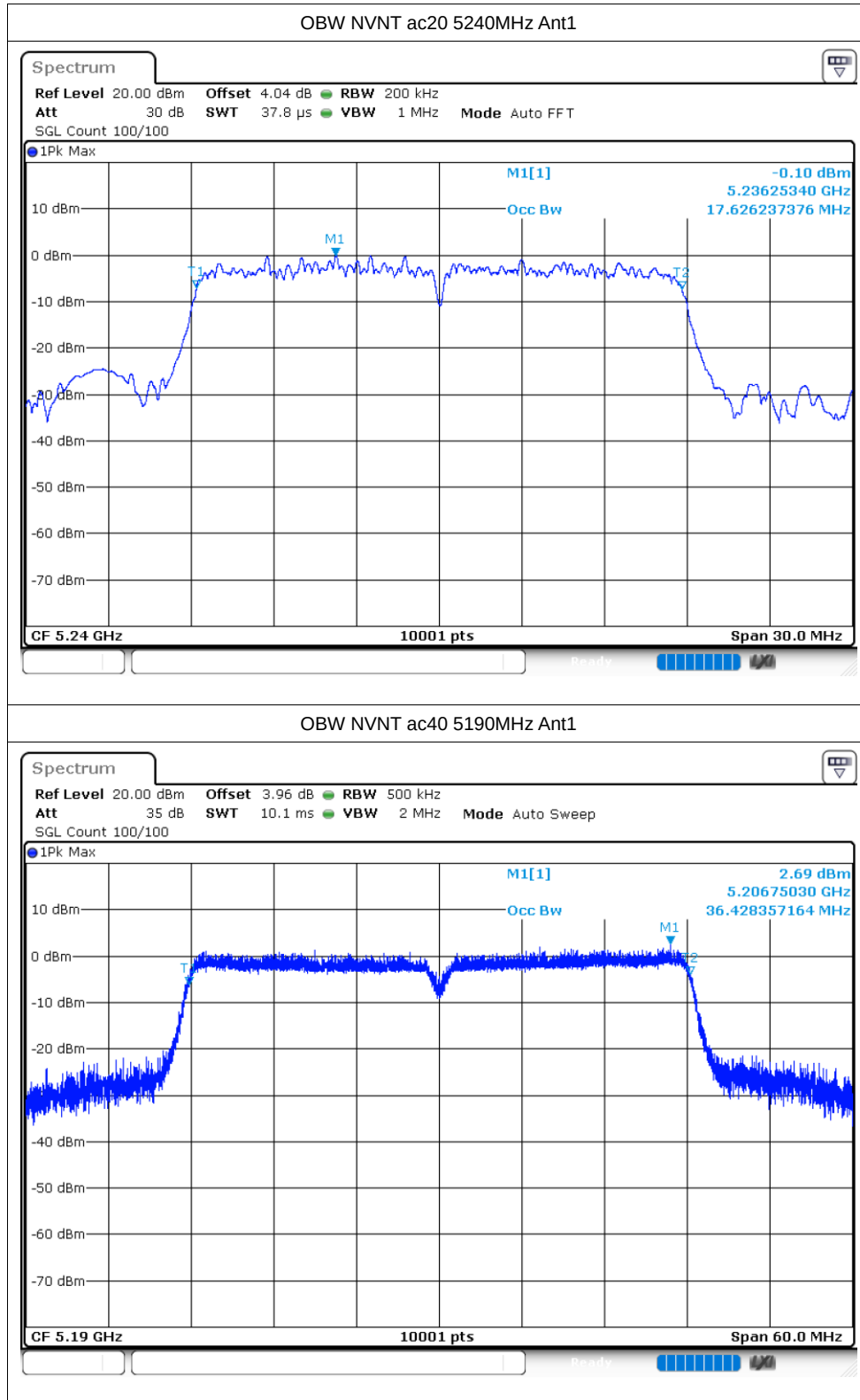


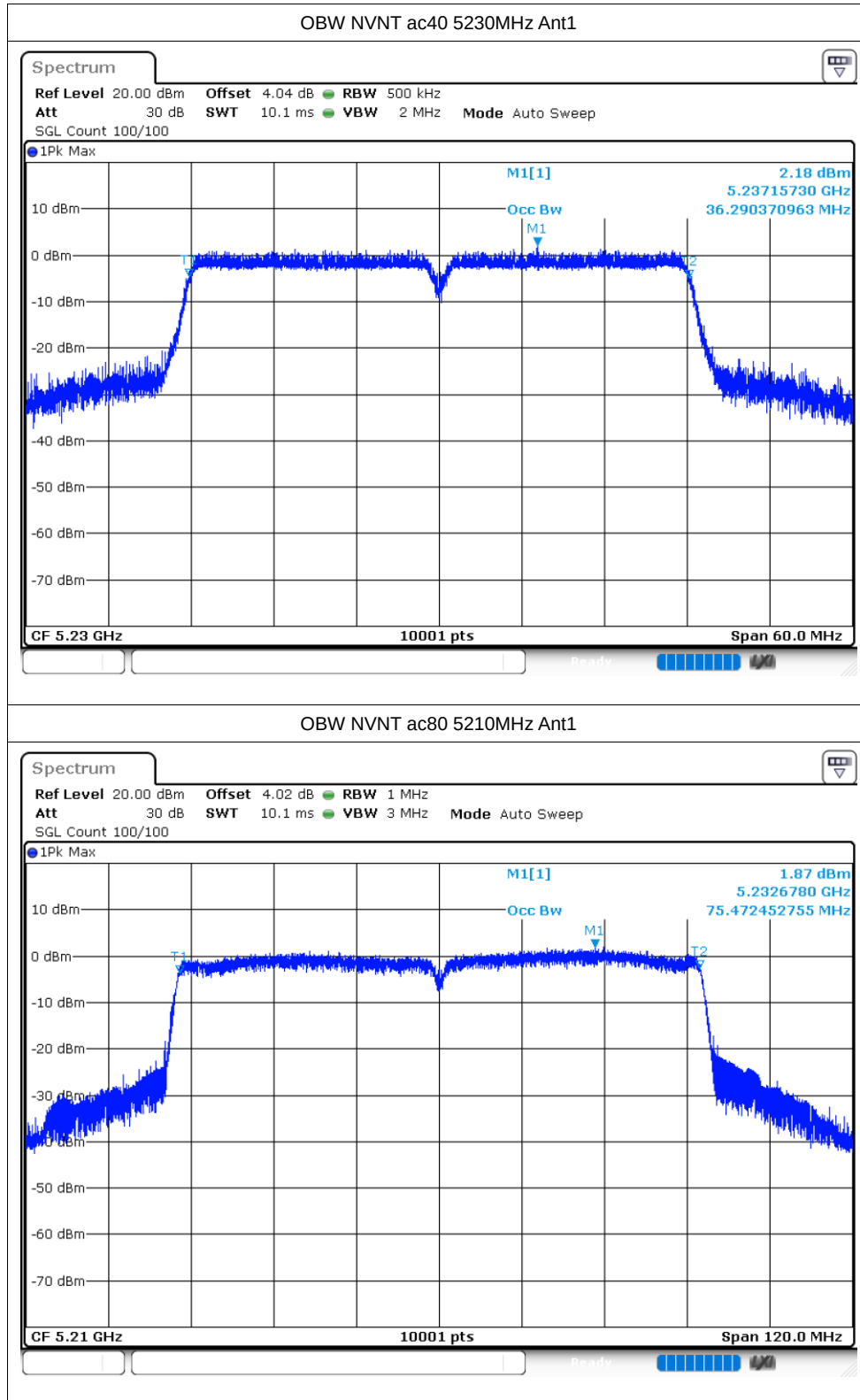










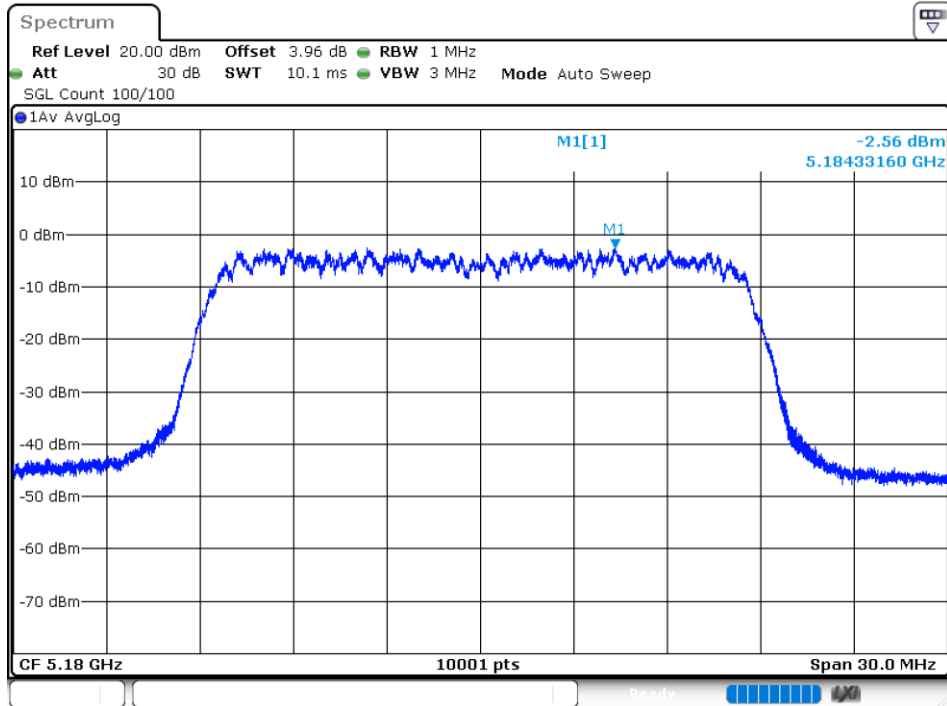


Maximum Power Spectral Density Level

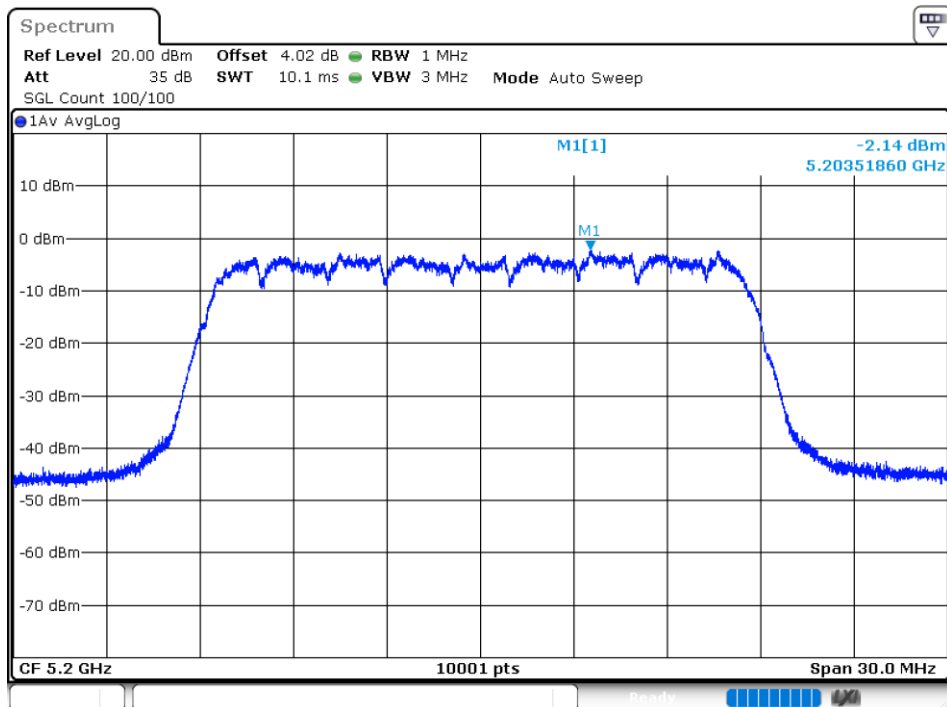
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-2.56	0.16	-2.4	11	Pass
NVNT	a	5200	Ant1	-2.14	0.16	-1.98	11	Pass
NVNT	a	5240	Ant1	-2.45	0.16	-2.29	11	Pass
NVNT	n20	5180	Ant1	-2.39	0.19	-2.2	11	Pass
NVNT	n20	5200	Ant1	-2.34	0.19	-2.15	11	Pass
NVNT	n20	5240	Ant1	-2.68	0.18	-2.5	11	Pass
NVNT	n40	5190	Ant1	-6.65	0.36	-6.29	11	Pass
NVNT	n40	5230	Ant1	-7.44	0.36	-7.08	11	Pass
NVNT	ac20	5180	Ant1	-2.14	0.19	-1.95	11	Pass
NVNT	ac20	5200	Ant1	-2.31	0.19	-2.12	11	Pass
NVNT	ac20	5240	Ant1	-2.43	0.19	-2.24	11	Pass
NVNT	ac40	5190	Ant1	-7.1	0.36	-6.74	11	Pass
NVNT	ac40	5230	Ant1	-7.35	0.36	-6.99	11	Pass
NVNT	ac80	5210	Ant1	-12.42	0.68	-11.74	11	Pass

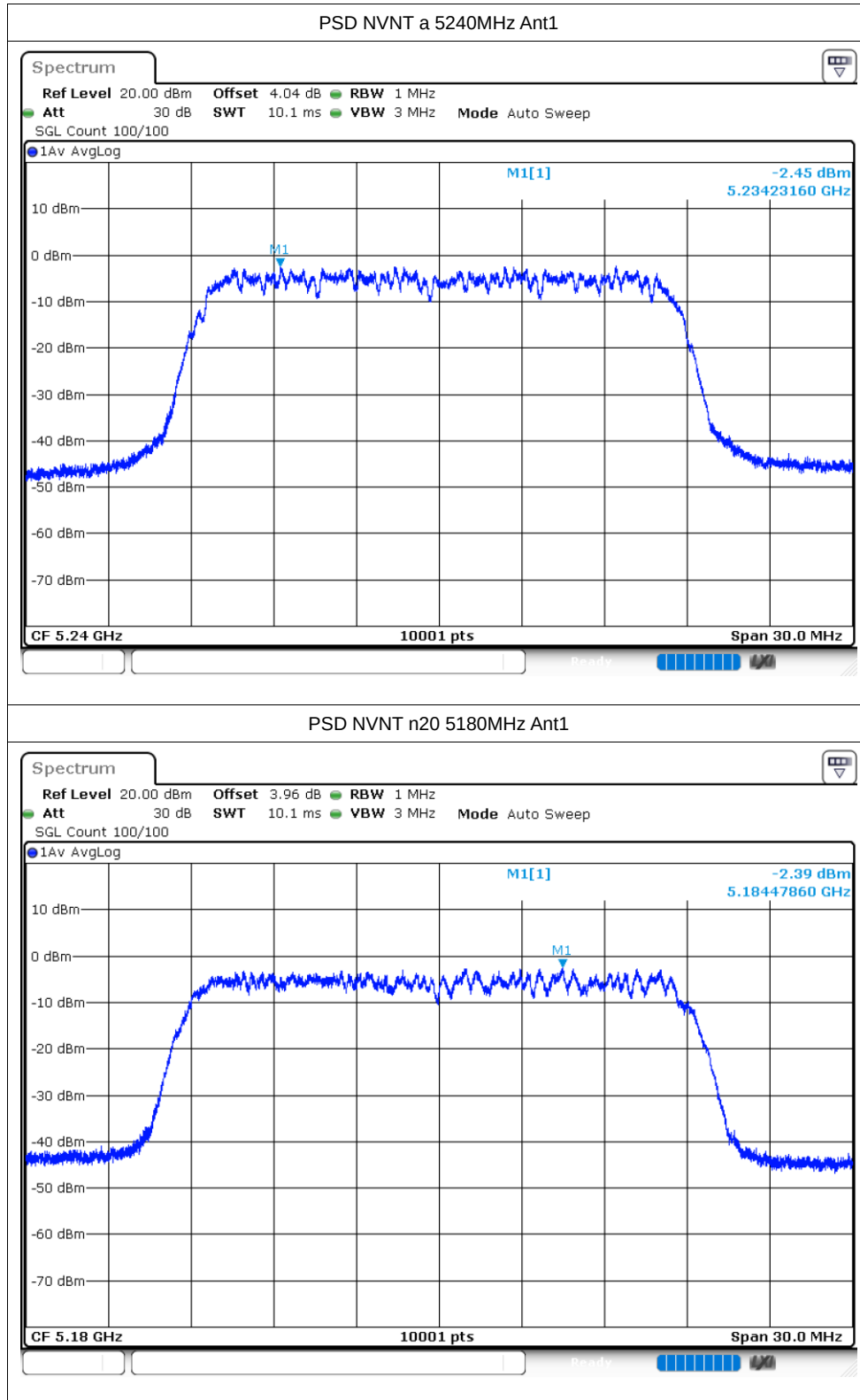
Test Graphs

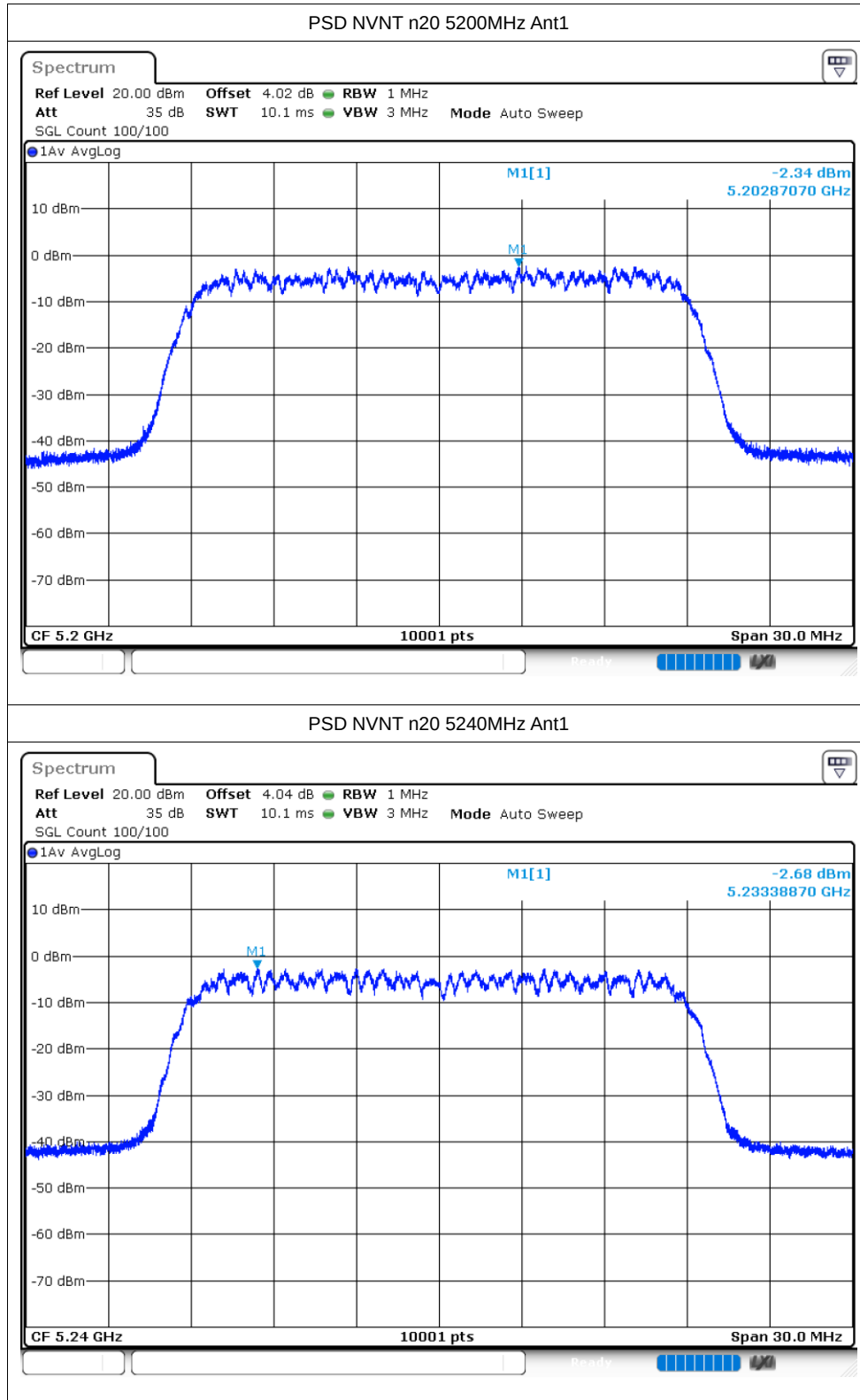
PSD NVNT a 5180MHz Ant1

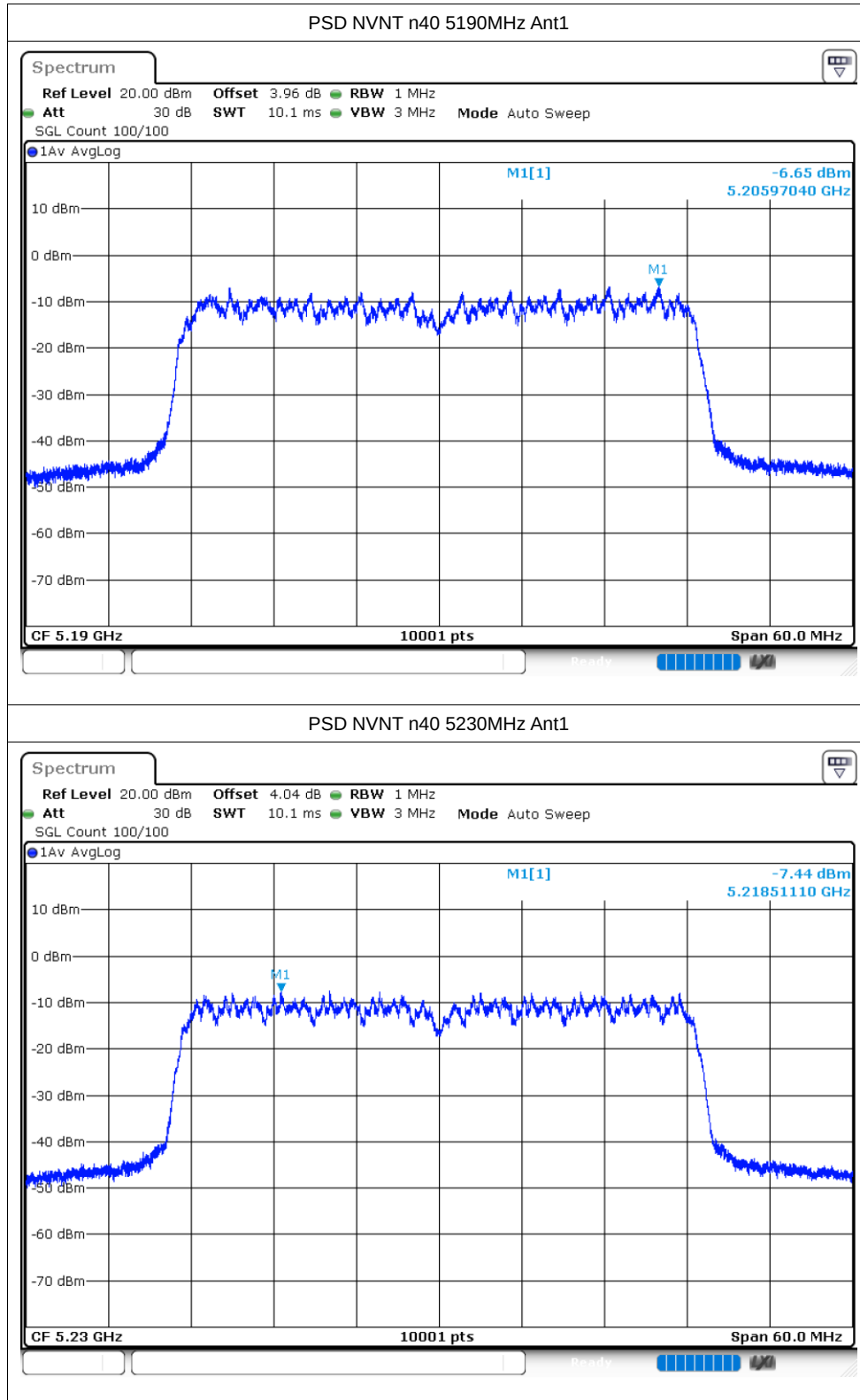


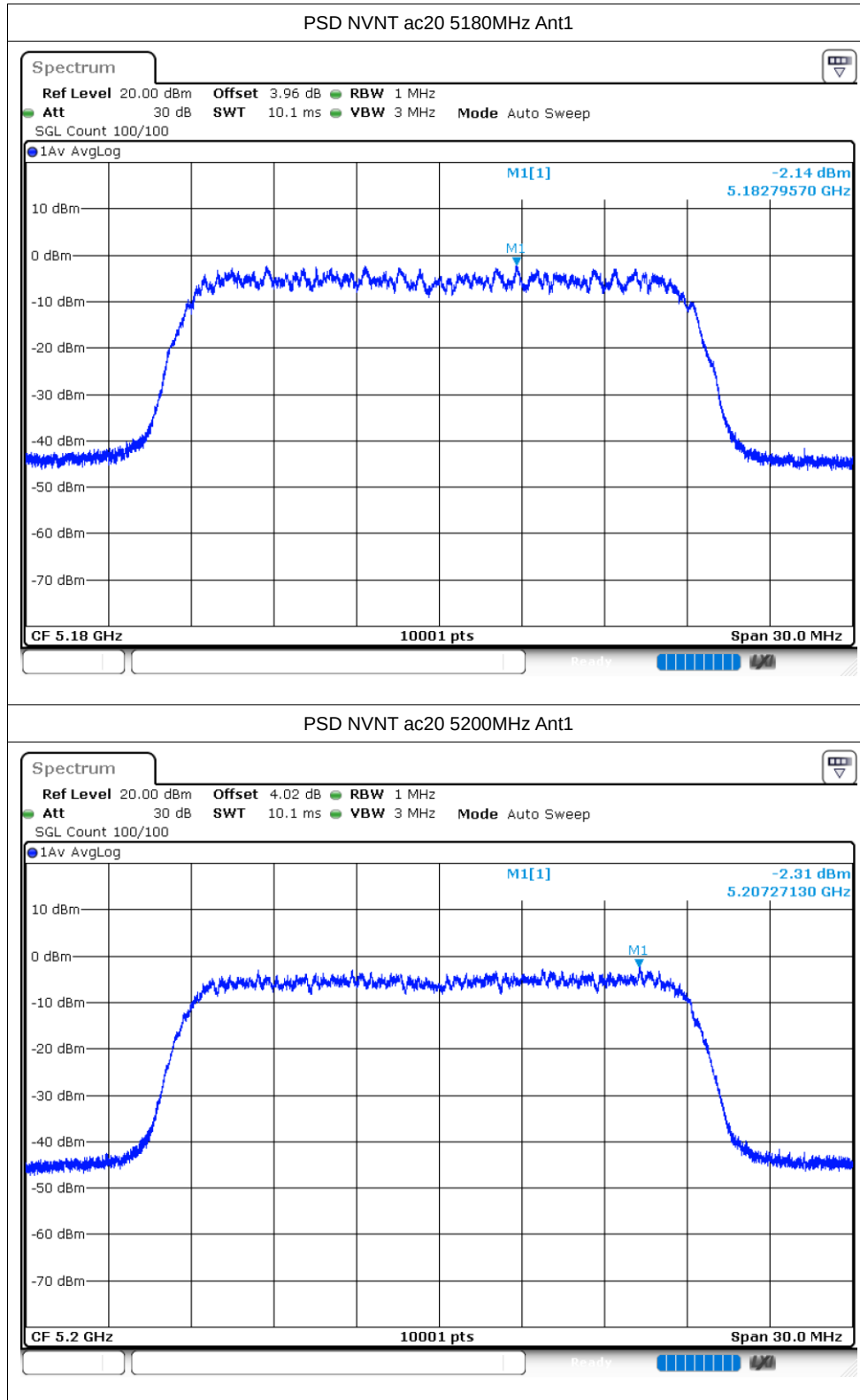
PSD NVNT a 5200MHz Ant1

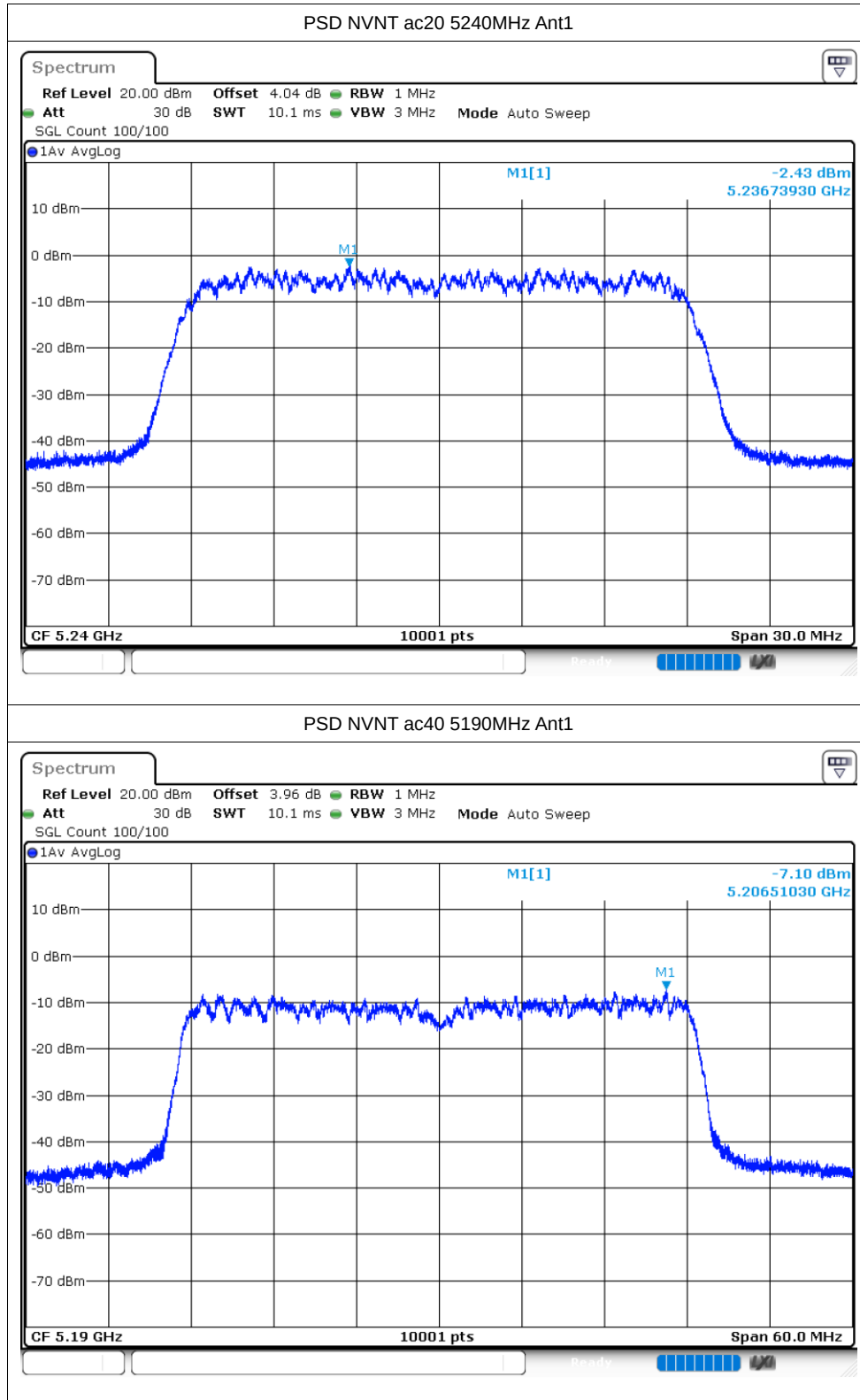


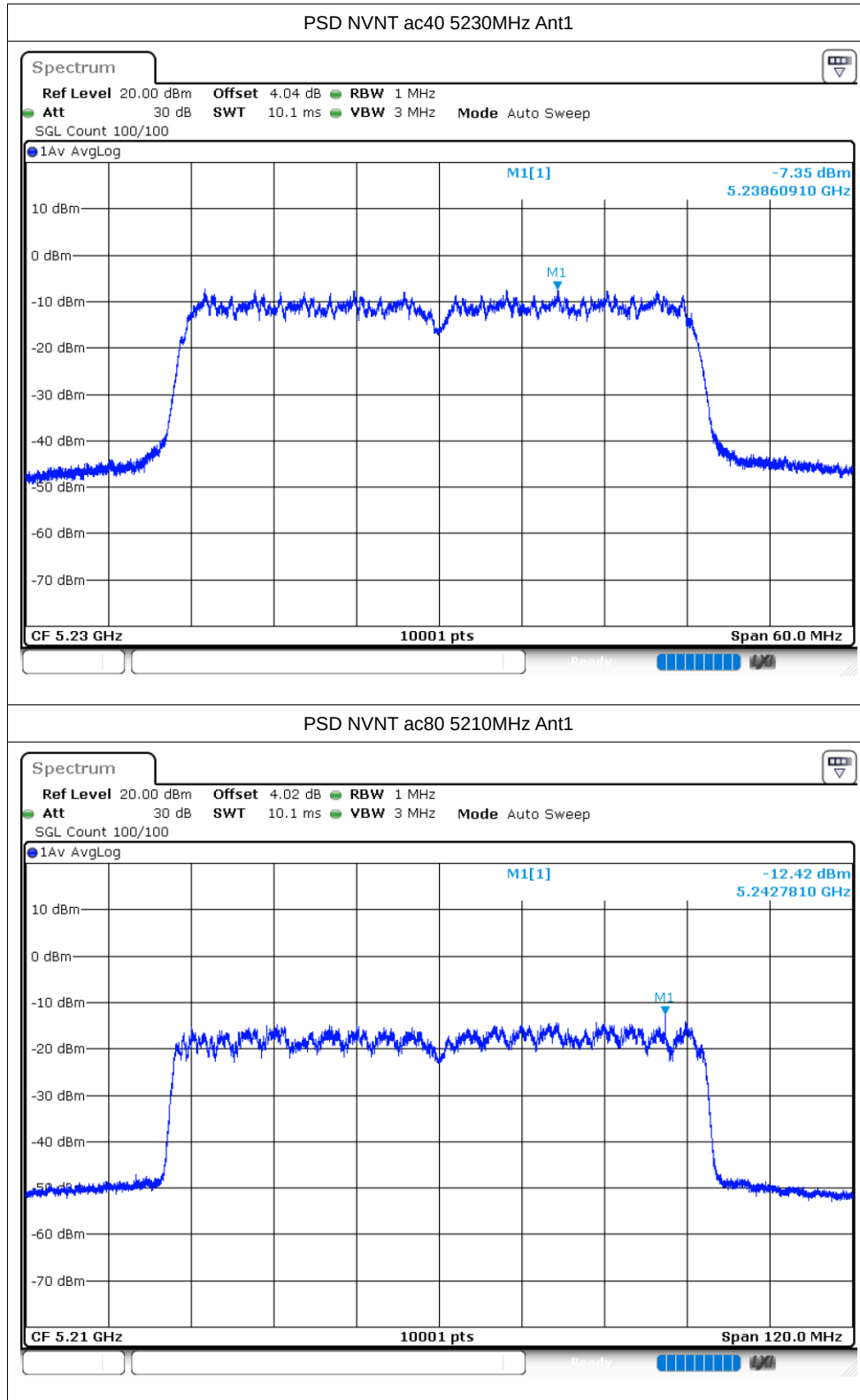










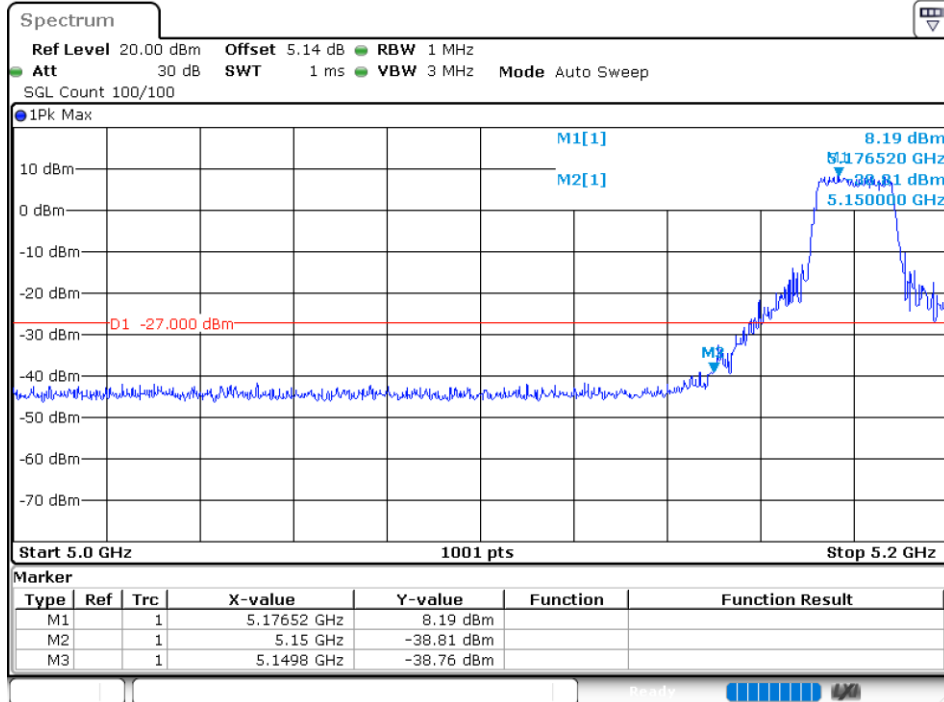


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-38.75	-27	Pass
NVNT	a	5240	Ant1	-41.6	-27	Pass
NVNT	n20	5180	Ant1	-33.4	-27	Pass
NVNT	n20	5240	Ant1	-40.71	-27	Pass
NVNT	n40	5190	Ant1	-33.12	-27	Pass
NVNT	n40	5230	Ant1	-41.87	-27	Pass
NVNT	ac20	5180	Ant1	-30.51	-27	Pass
NVNT	ac20	5240	Ant1	-40.85	-27	Pass
NVNT	ac40	5190	Ant1	-32.15	-27	Pass
NVNT	ac40	5230	Ant1	-41.87	-27	Pass
NVNT	ac80	5210	Ant1	-41.21	-27	Pass
NVNT	ac80	5210	Ant1	-35.55	-27	Pass

Test Graphs

Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1

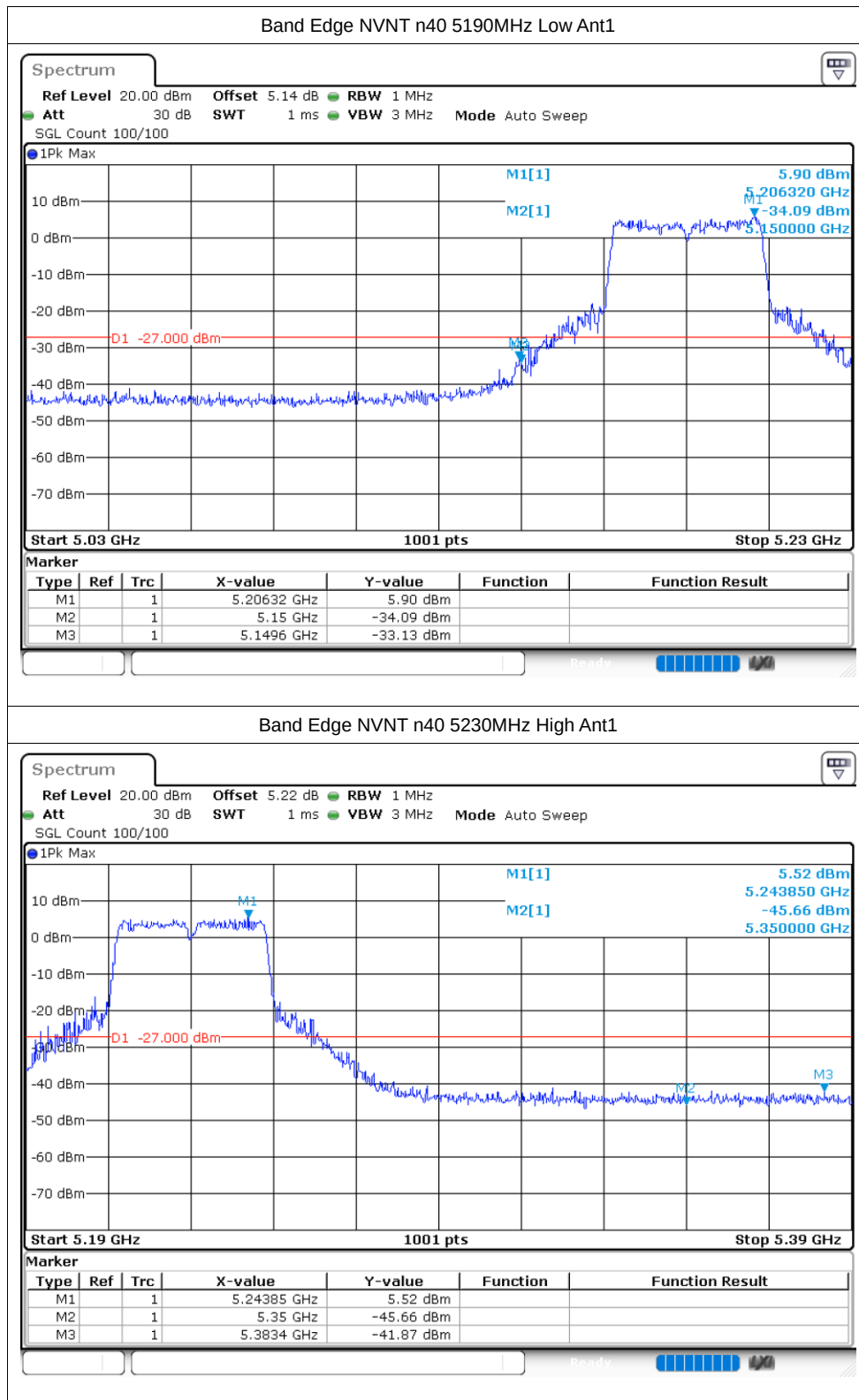


Band Edge NVNT n20 5180MHz Low Ant1



Band Edge NVNT n20 5240MHz High Ant1



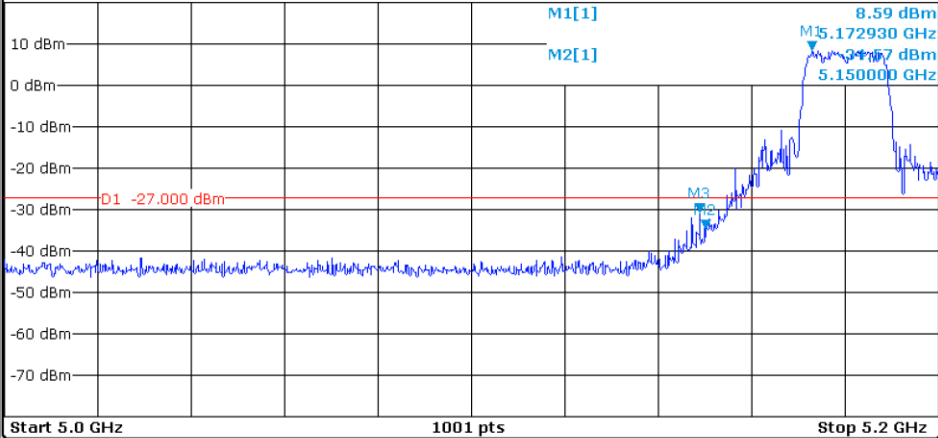


Band Edge NVNT ac20 5180MHz Low Ant1

Spectrum

Ref Level 20.00 dBm Offset 5.14 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

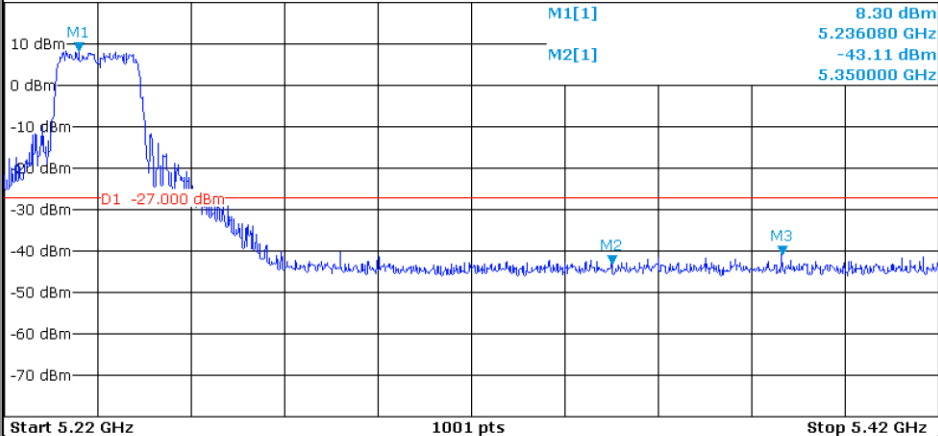
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.17293 GHz	8.59 dBm		
M2		1	5.15 GHz	-34.57 dBm		
M3		1	5.1488 GHz	-30.51 dBm		

Band Edge NVNT ac20 5240MHz High Ant1

Spectrum

Ref Level 20.00 dBm Offset 5.22 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 100/100

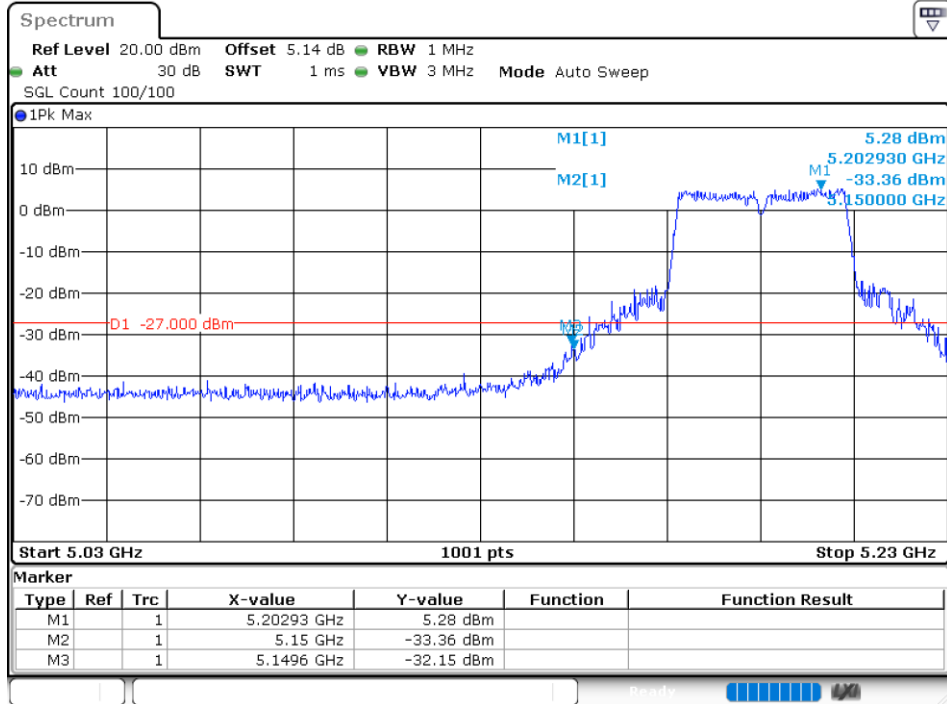
1Pk Max



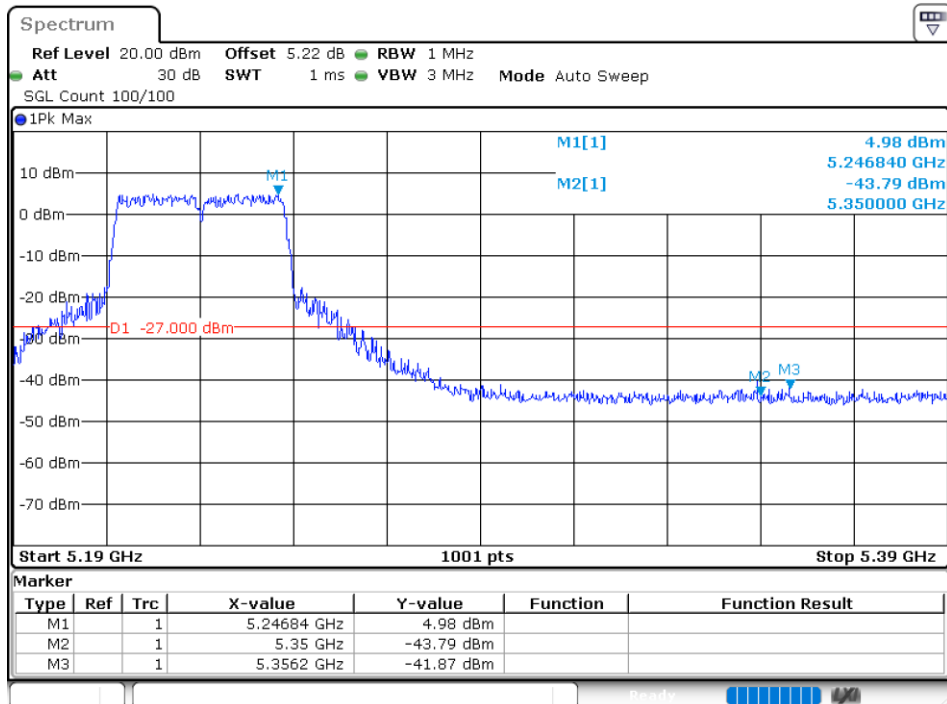
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.23608 GHz	8.30 dBm		
M2		1	5.35 GHz	-43.11 dBm		
M3		1	5.3864 GHz	-40.86 dBm		

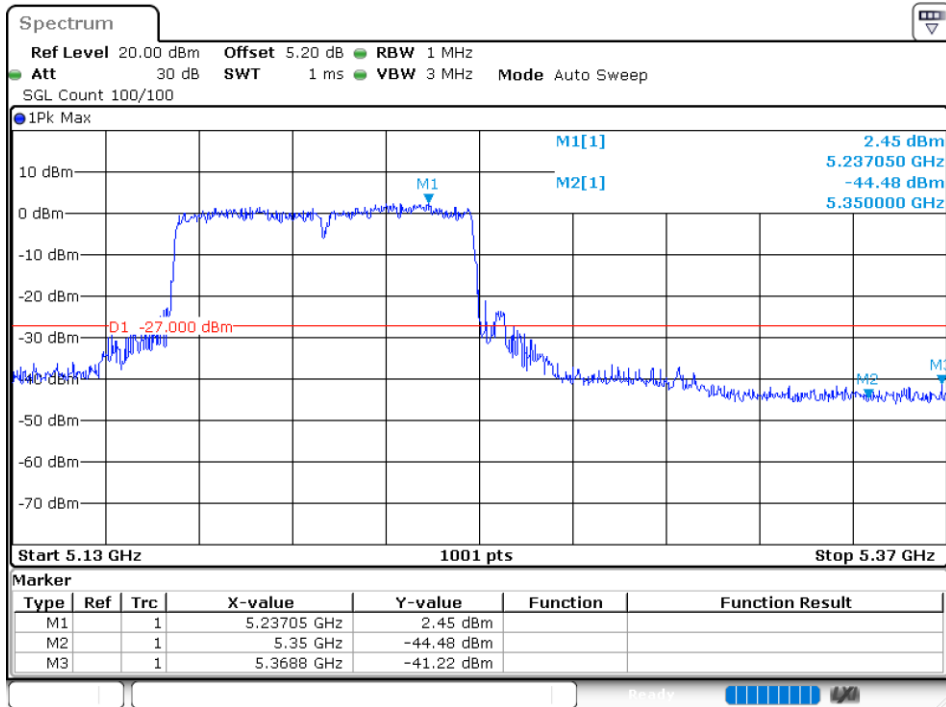
Band Edge NVNT ac40 5190MHz Low Ant1



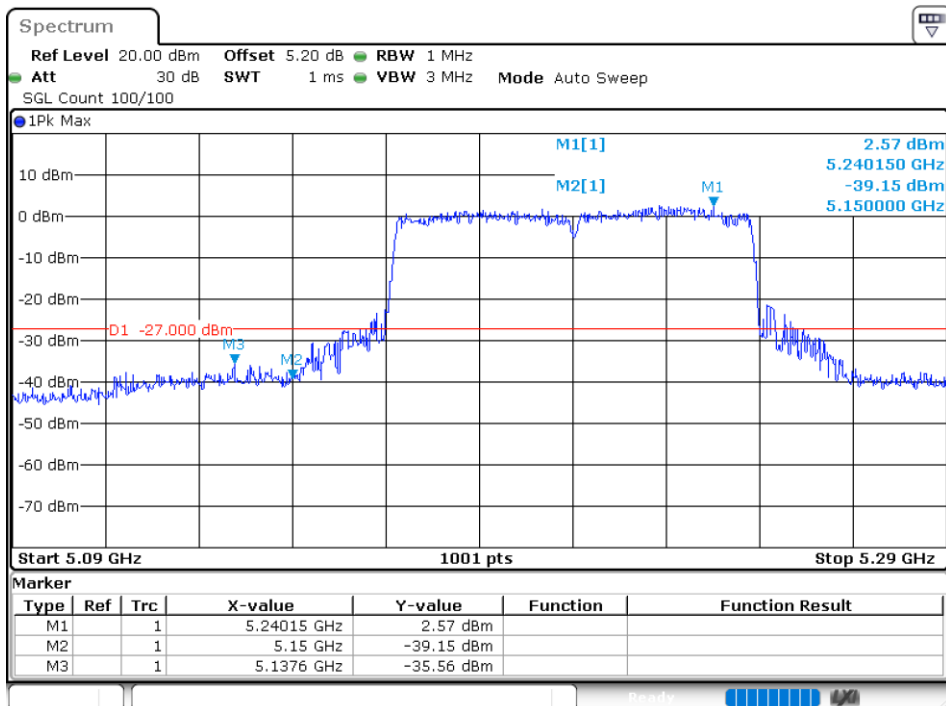
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1

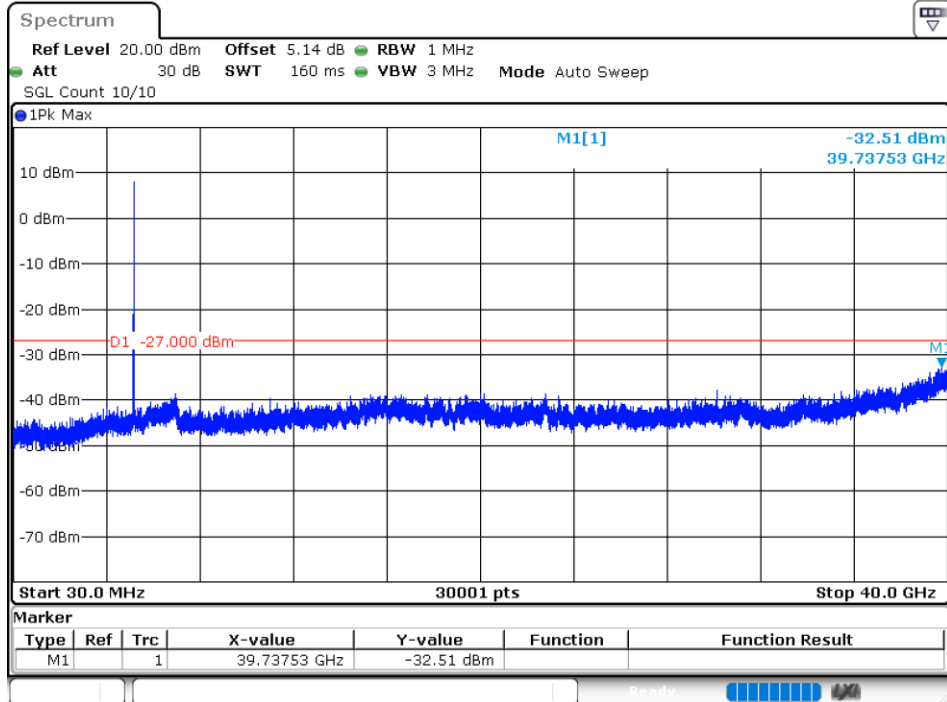


Conducted RF Spurious Emission

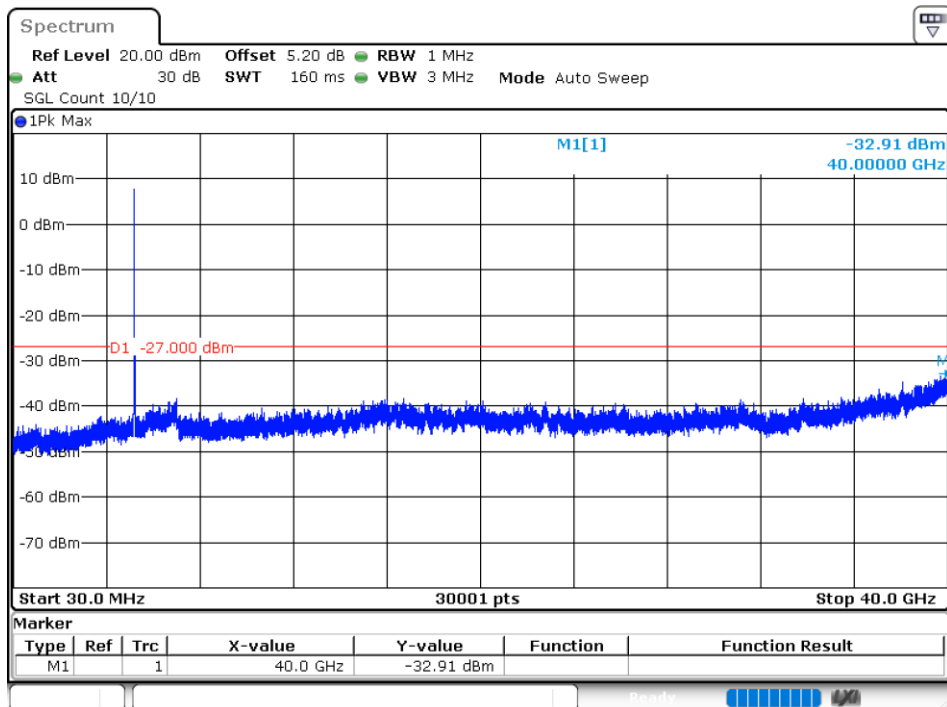
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-32.5	-27	Pass
NVNT	a	5200	Ant1	-32.9	-27	Pass
NVNT	a	5240	Ant1	-32.5	-27	Pass
NVNT	n20	5180	Ant1	-33.18	-27	Pass
NVNT	n20	5200	Ant1	-31.36	-27	Pass
NVNT	n20	5240	Ant1	-33.24	-27	Pass
NVNT	n40	5190	Ant1	-33.11	-27	Pass
NVNT	n40	5230	Ant1	-32.9	-27	Pass
NVNT	ac20	5180	Ant1	-33.2	-27	Pass
NVNT	ac20	5200	Ant1	-32.82	-27	Pass
NVNT	ac20	5240	Ant1	-33.18	-27	Pass
NVNT	ac40	5190	Ant1	-33.29	-27	Pass
NVNT	ac40	5230	Ant1	-31.97	-27	Pass
NVNT	ac80	5210	Ant1	-32.97	-27	Pass

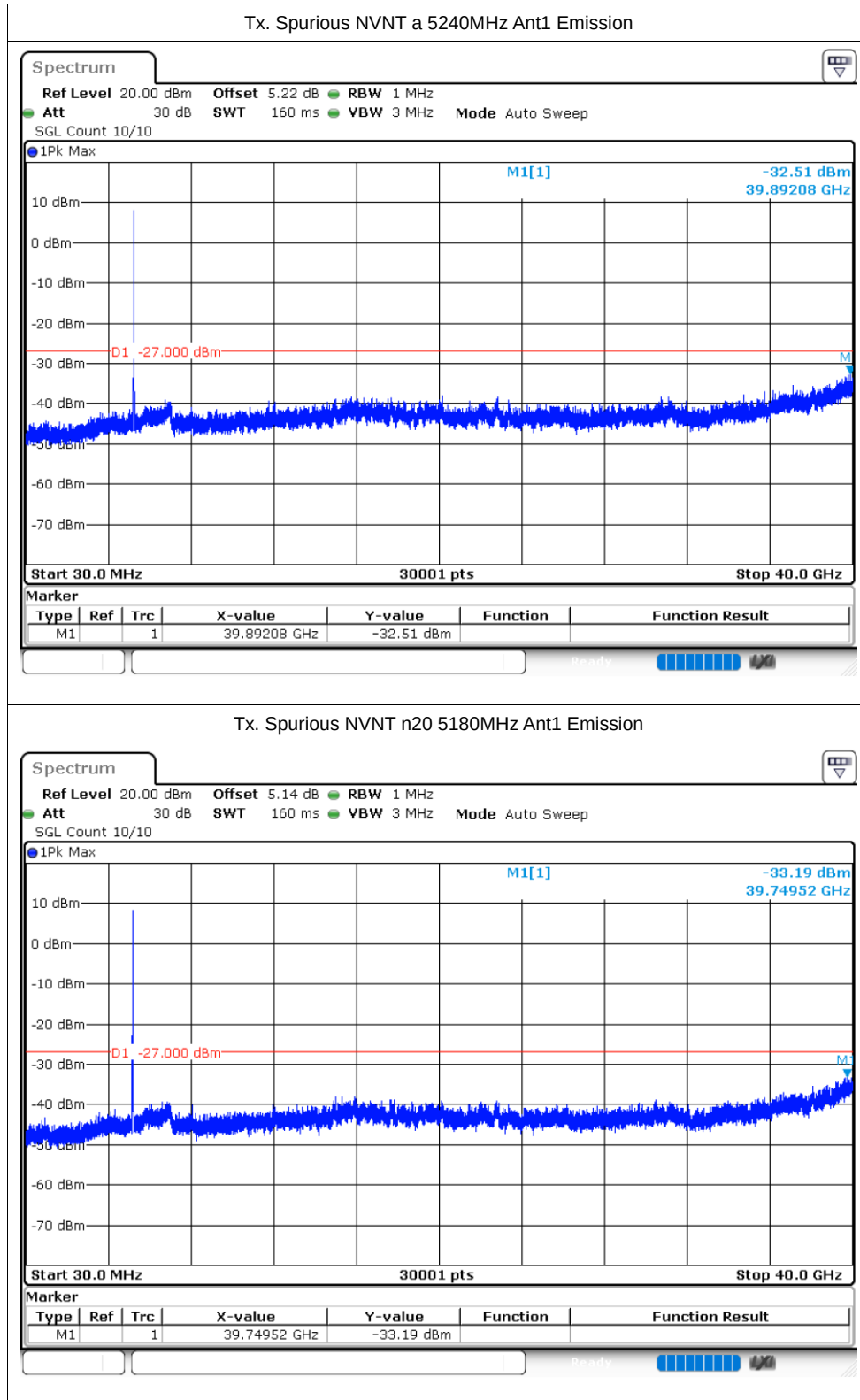
Test Graphs

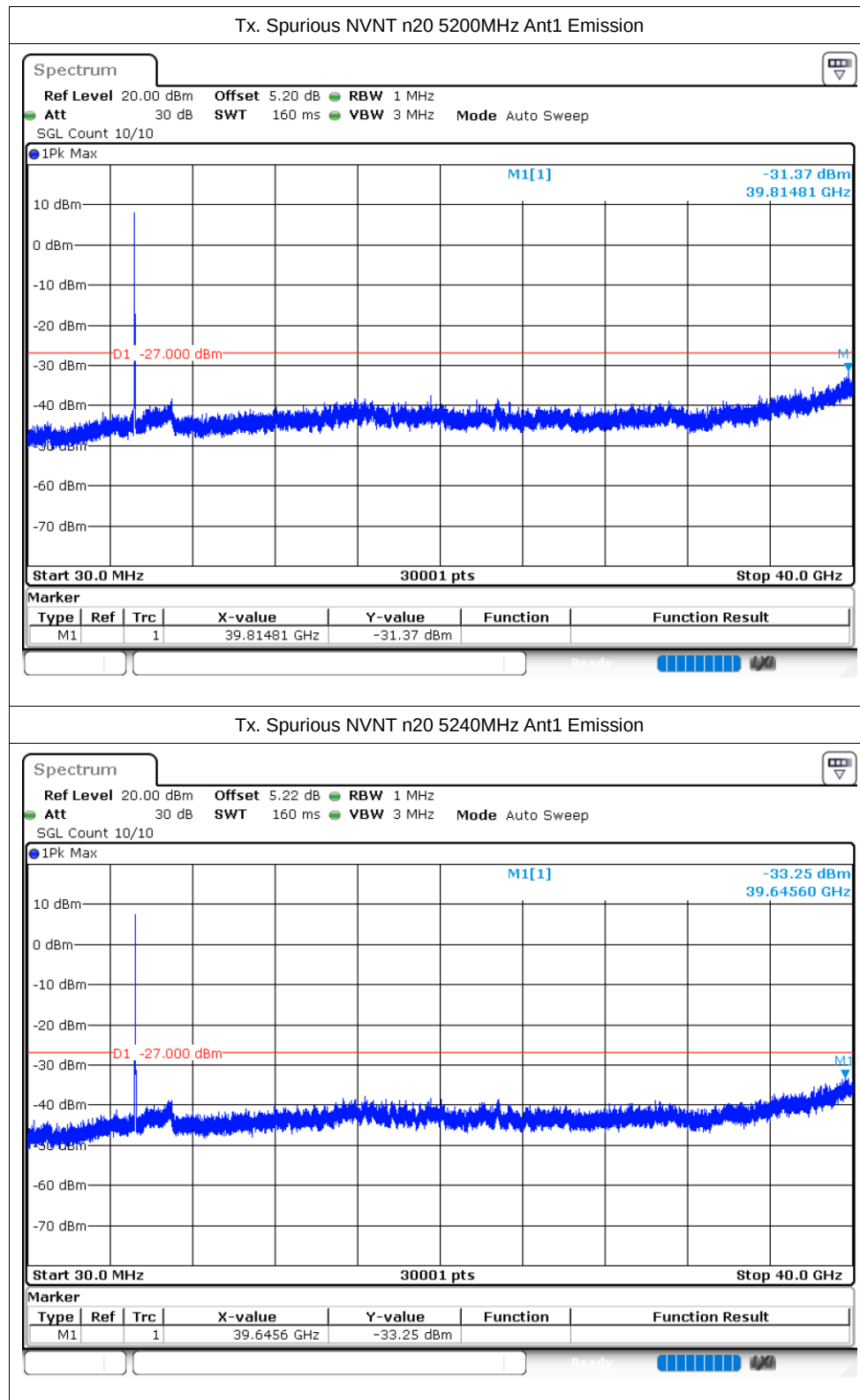
Tx. Spurious NVNT a 5180MHz Ant1 Emission

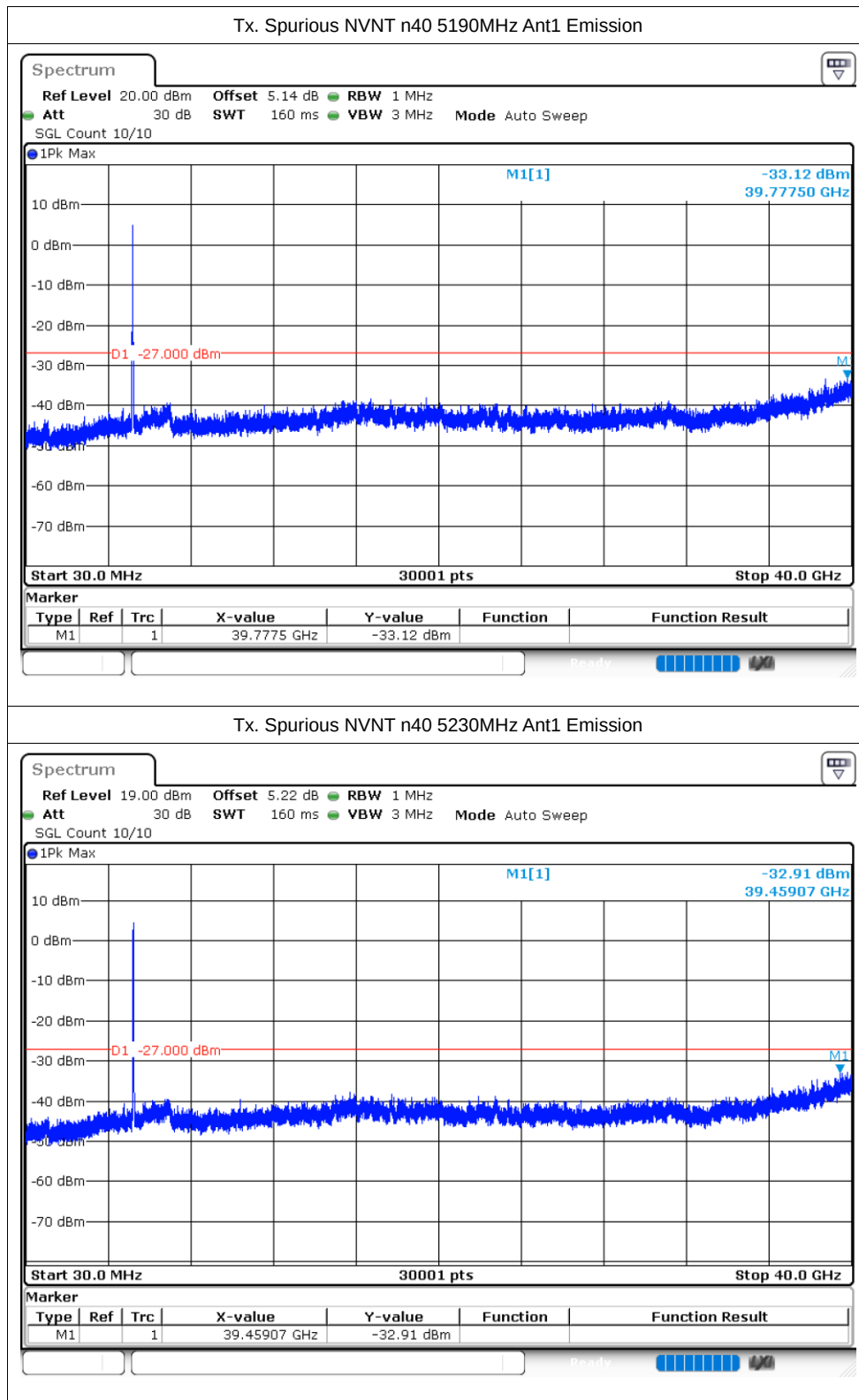


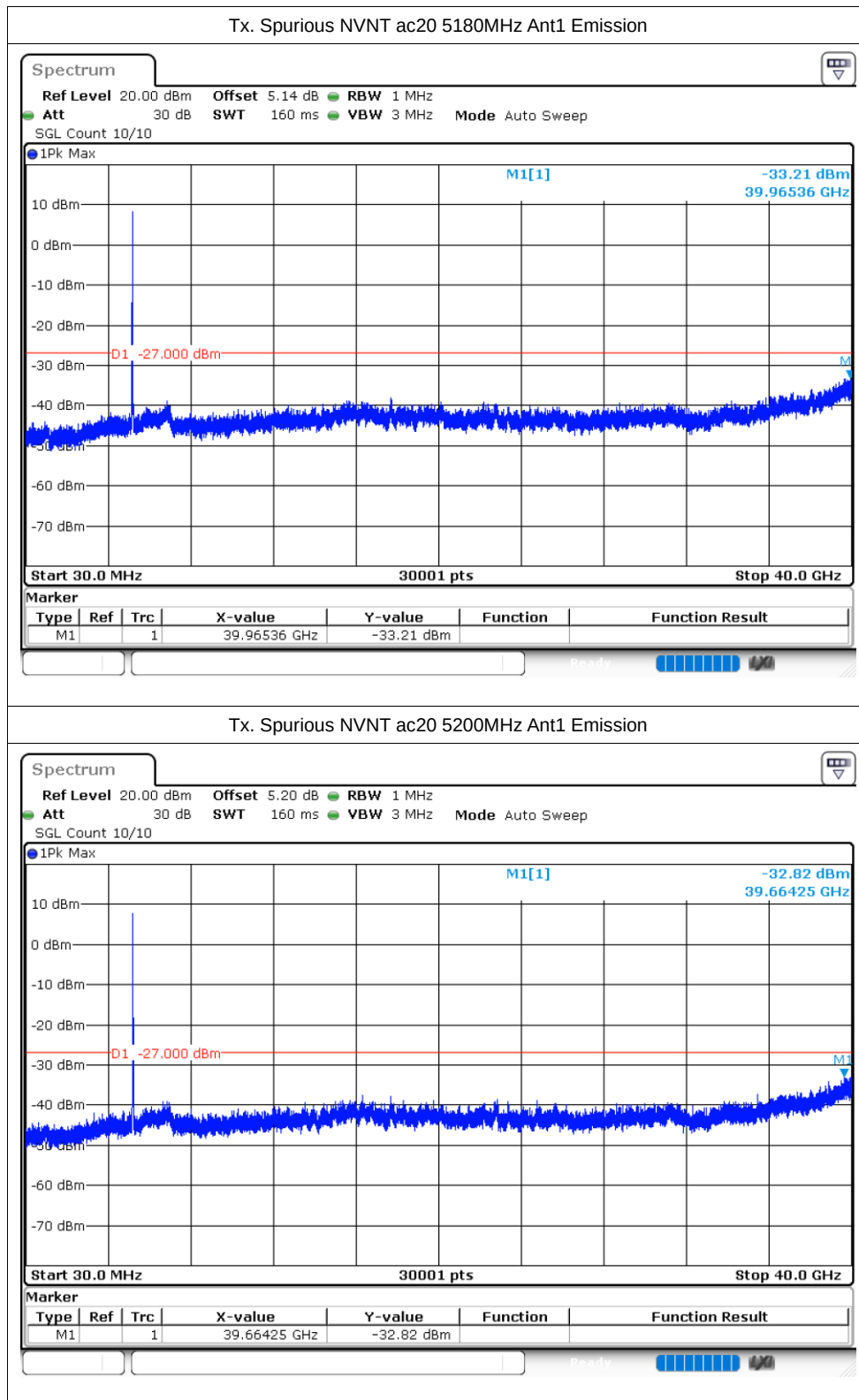
Tx. Spurious NVNT a 5200MHz Ant1 Emission

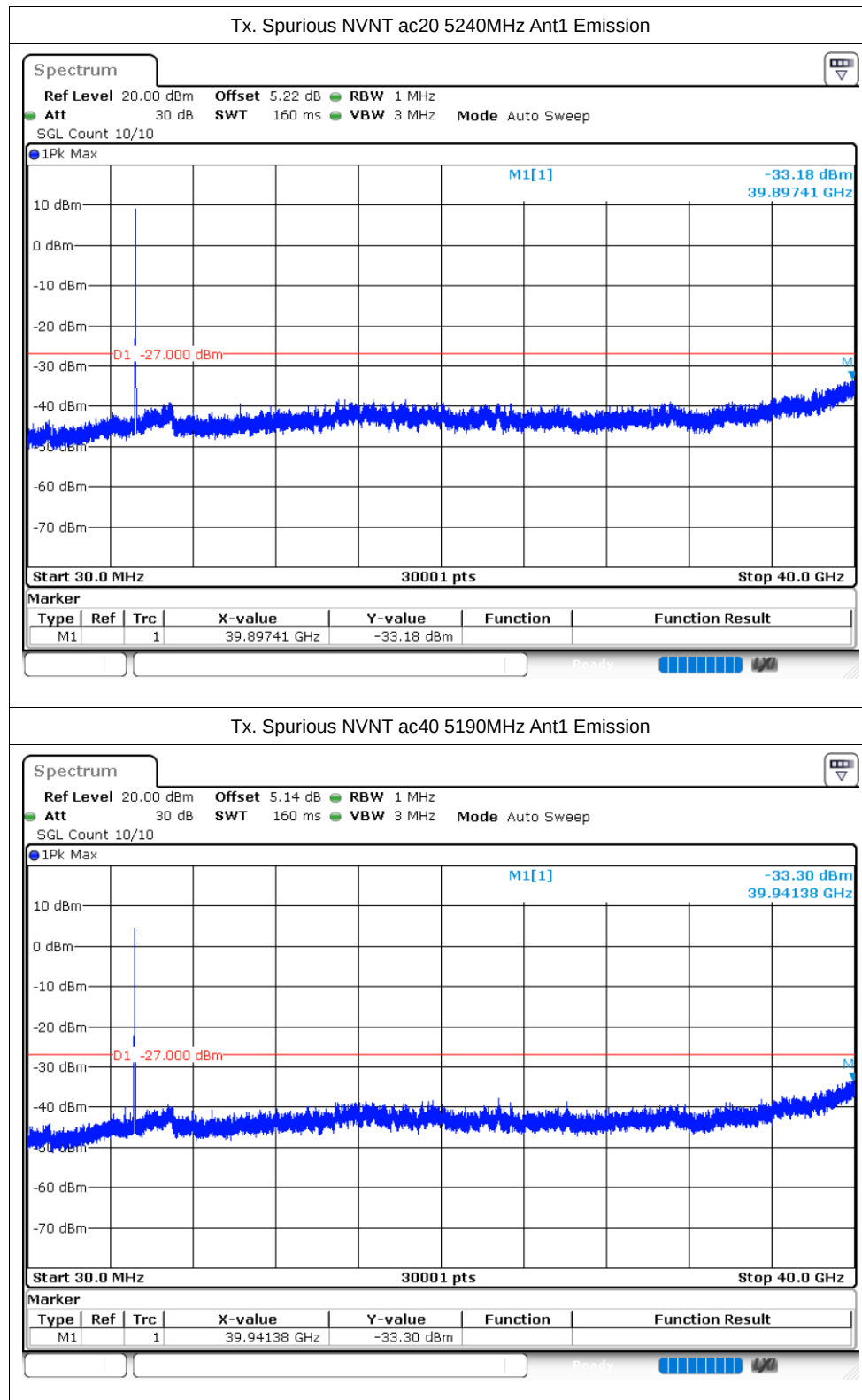


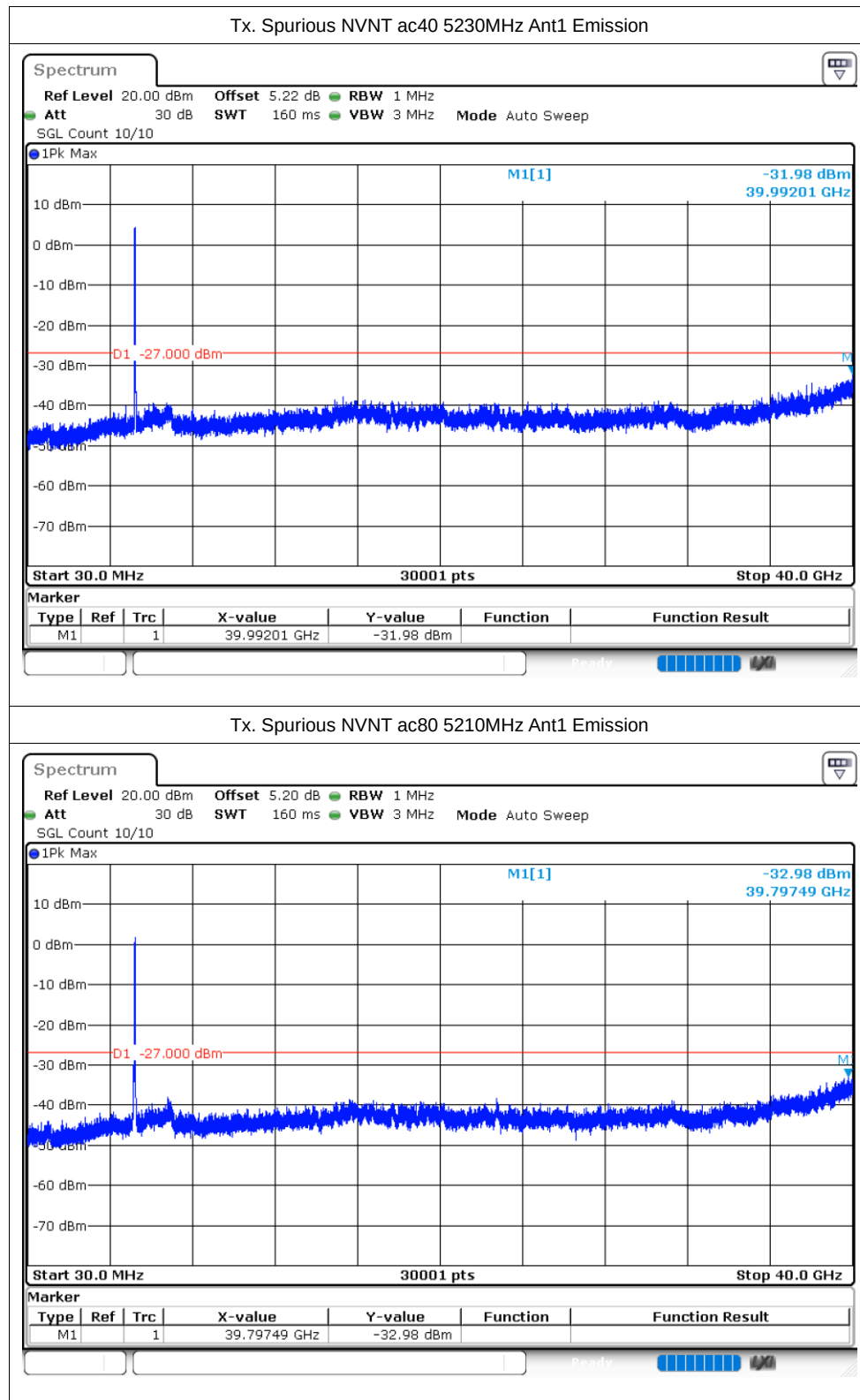












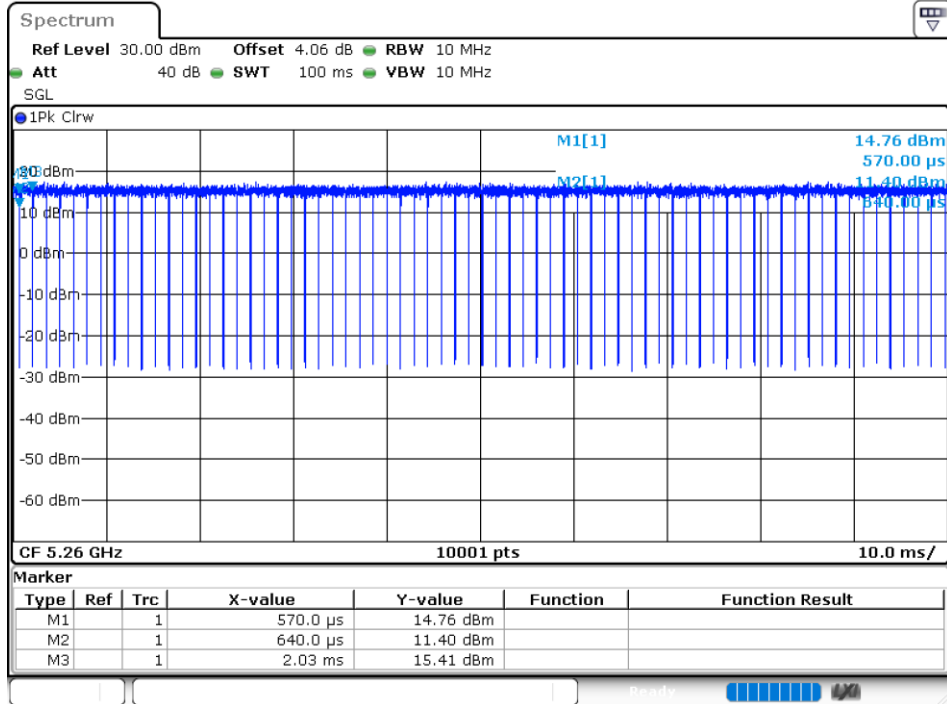
5.3G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	96.41	0.16	0.72
NVNT	a	5280	Ant1	96.48	0.16	0.71
NVNT	a	5320	Ant1	96.41	0.16	0.71
NVNT	n20	5260	Ant1	95.74	0.19	0.85
NVNT	n20	5280	Ant1	95.86	0.18	0.85
NVNT	n20	5320	Ant1	95.82	0.19	0.85
NVNT	n40	5270	Ant1	92.01	0.36	1.69
NVNT	n40	5310	Ant1	92.01	0.36	1.69
NVNT	ac20	5260	Ant1	95.86	0.18	0.84
NVNT	ac20	5280	Ant1	95.83	0.18	0.84
NVNT	ac20	5320	Ant1	95.76	0.19	0.84
NVNT	ac40	5270	Ant1	91.99	0.36	1.69
NVNT	ac40	5310	Ant1	92.04	0.36	1.67
NVNT	ac80	5290	Ant1	85.64	0.67	3.33

Test Graphs

Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5280MHz Ant1

