

5.2G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.58	0.11	0.72
NVNT	a	5200	Ant1	97.58	0.11	0.72
NVNT	a	5240	Ant1	97.57	0.11	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	97.44	0.11	0.77
NVNT	n40	5190	Ant1	95.06	0.22	1.54
NVNT	n40	5230	Ant1	95.05	0.22	1.54
NVNT	ac20	5180	Ant1	97.47	0.11	0.76
NVNT	ac20	5200	Ant1	97.47	0.11	0.76
NVNT	ac20	5240	Ant1	97.43	0.11	0.76
NVNT	ac40	5190	Ant1	95.04	0.22	1.54
NVNT	ac40	5230	Ant1	95.05	0.22	1.54
NVNT	ac80	5210	Ant1	90.7	0.42	3.13

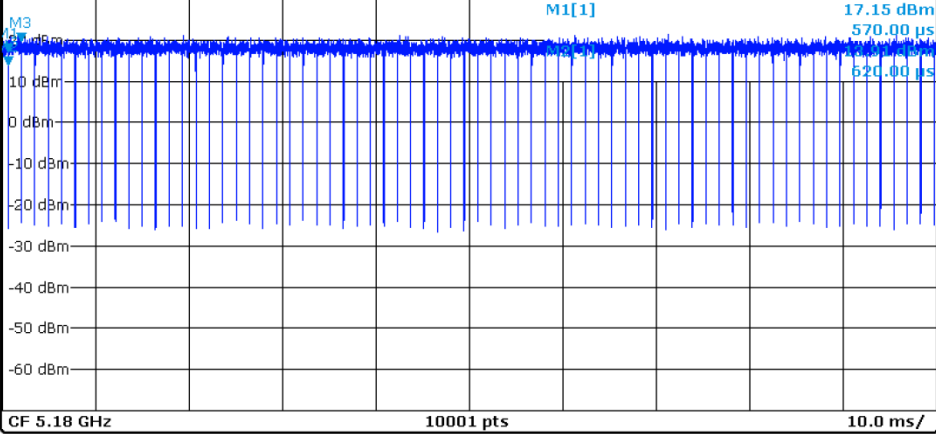
Test Graphs

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

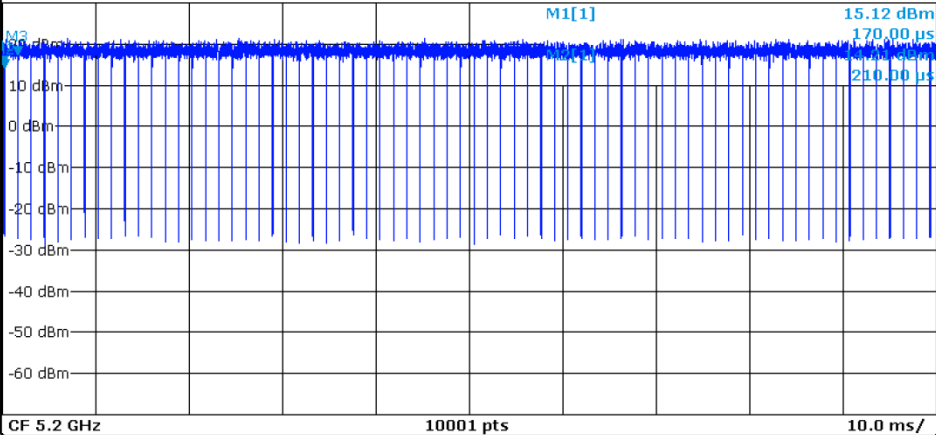
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	570.0 μ s	17.15 dBm		
M2		1	620.0 μ s	13.91 dBm		
M3		1	2.01 ms	19.58 dBm		

Duty Cycle NVNT a 5200MHz Ant1

Spectrum

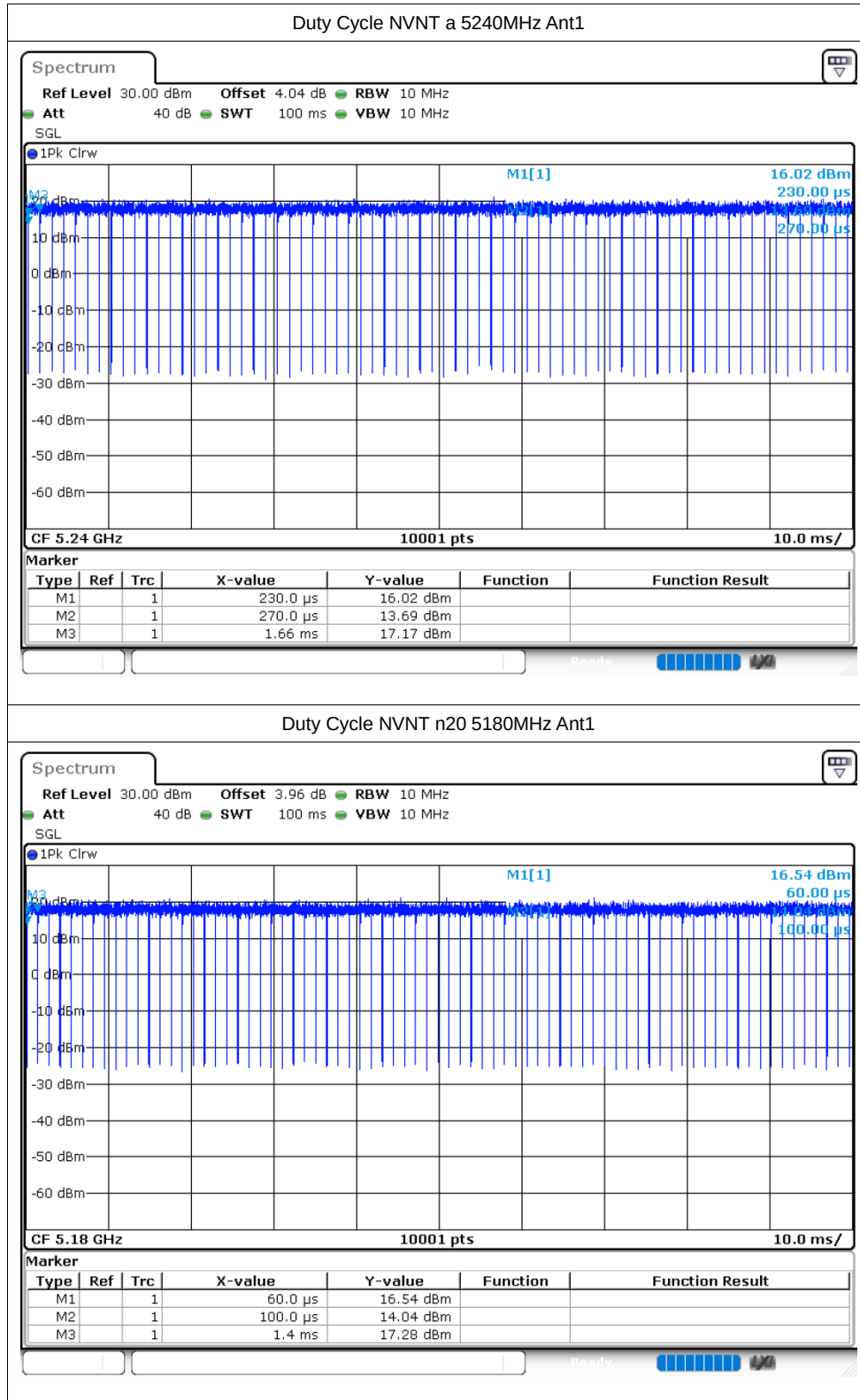
Ref Level 30.00 dBm Offset 4.02 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz
SGL

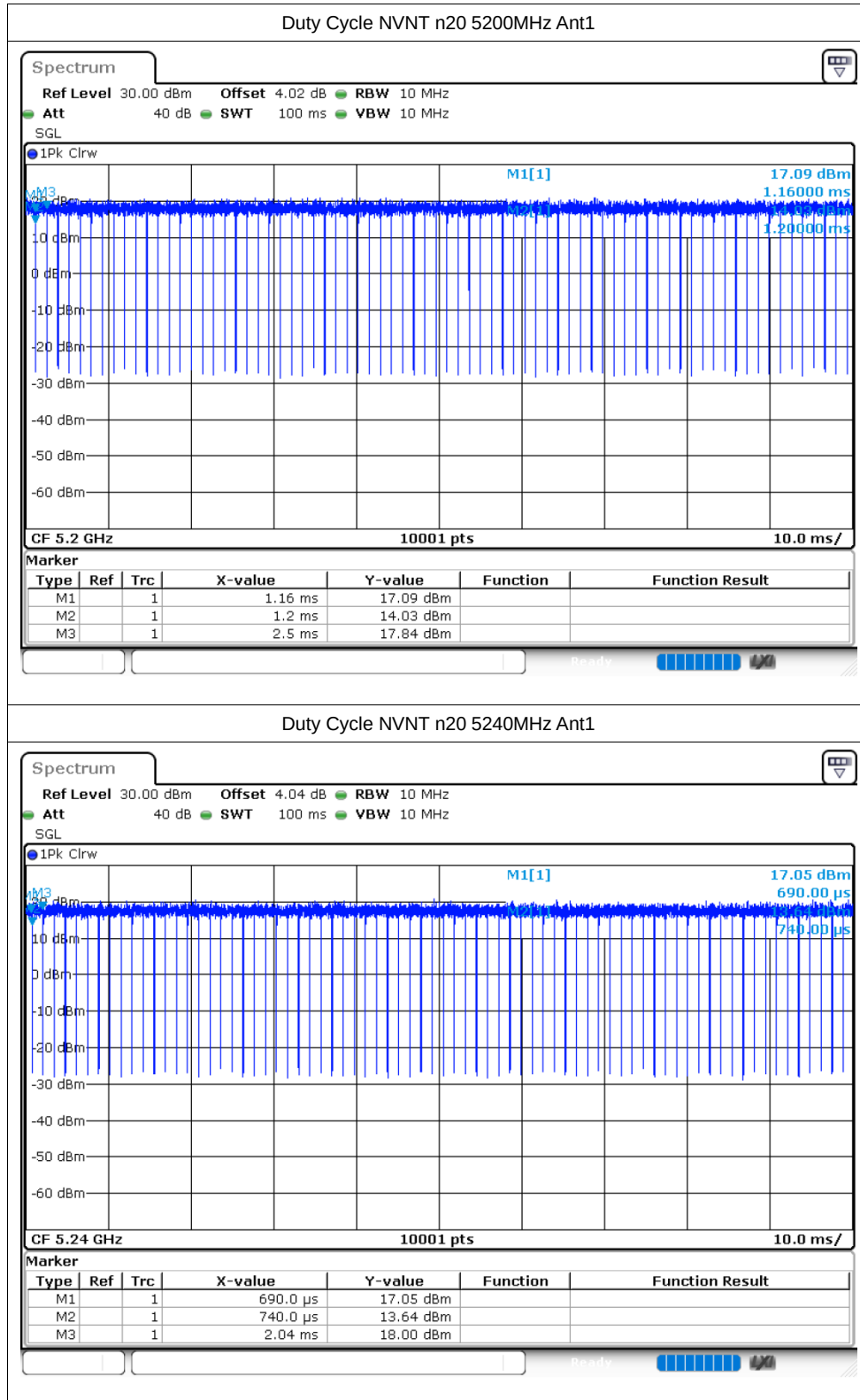
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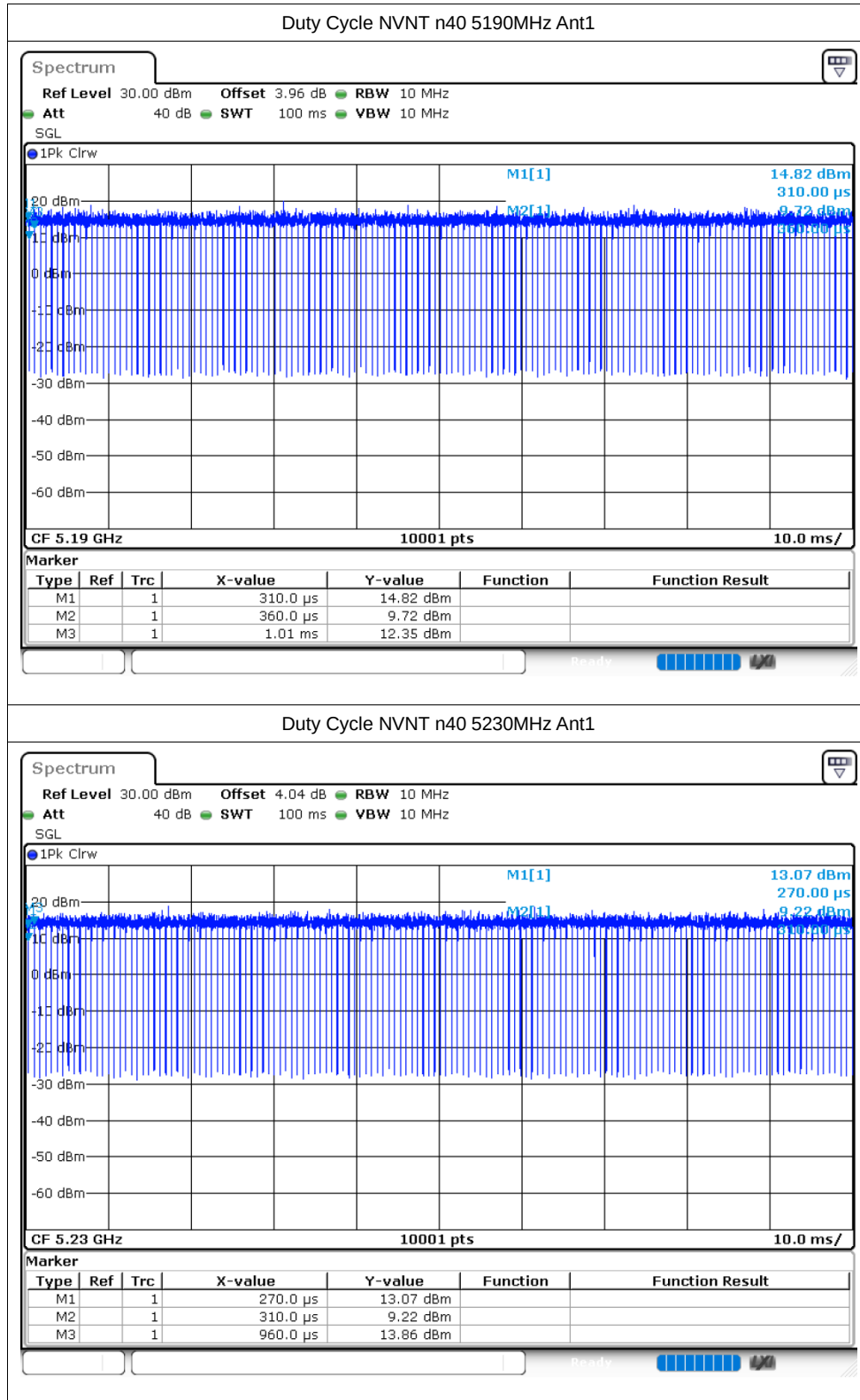


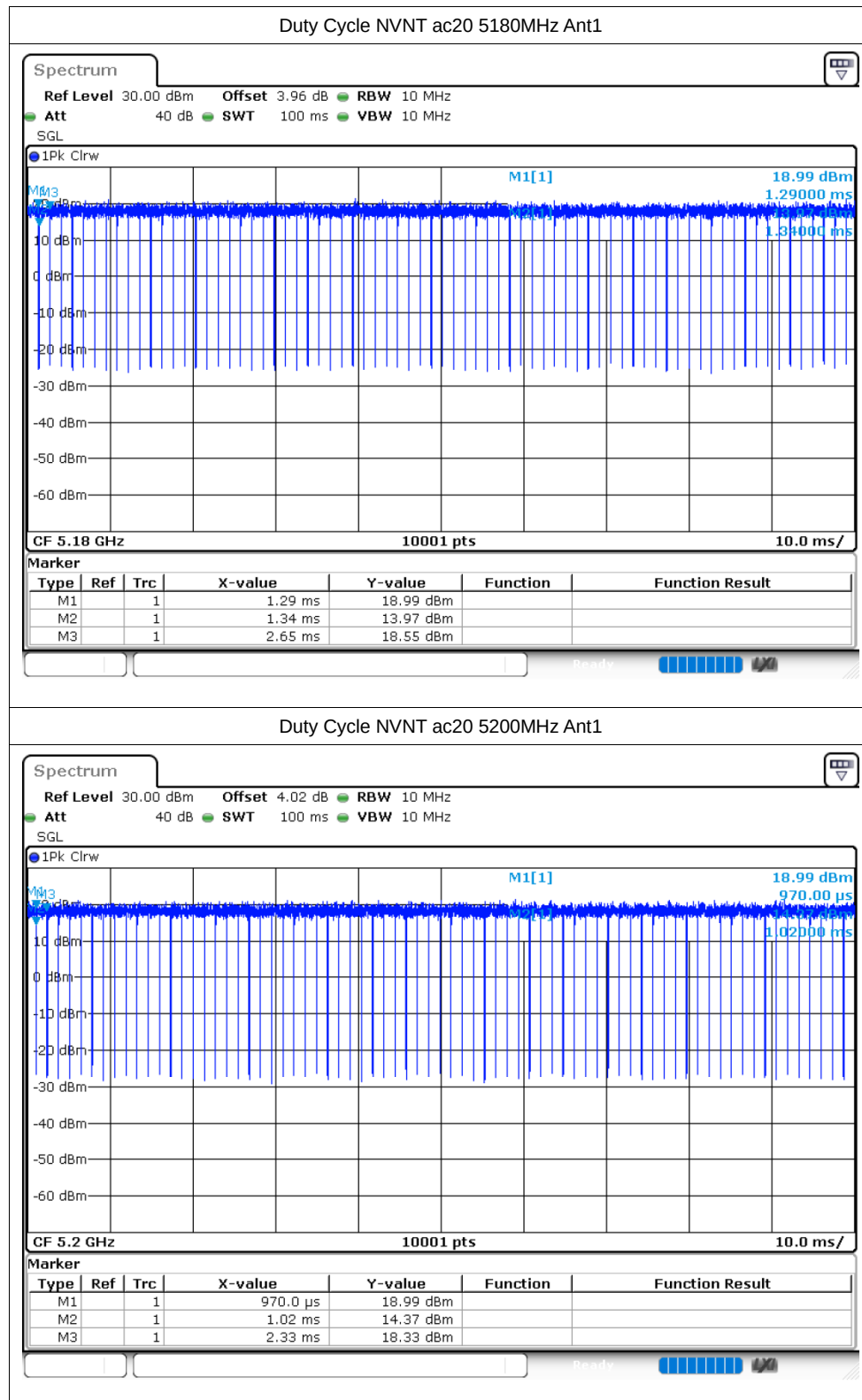
Marker

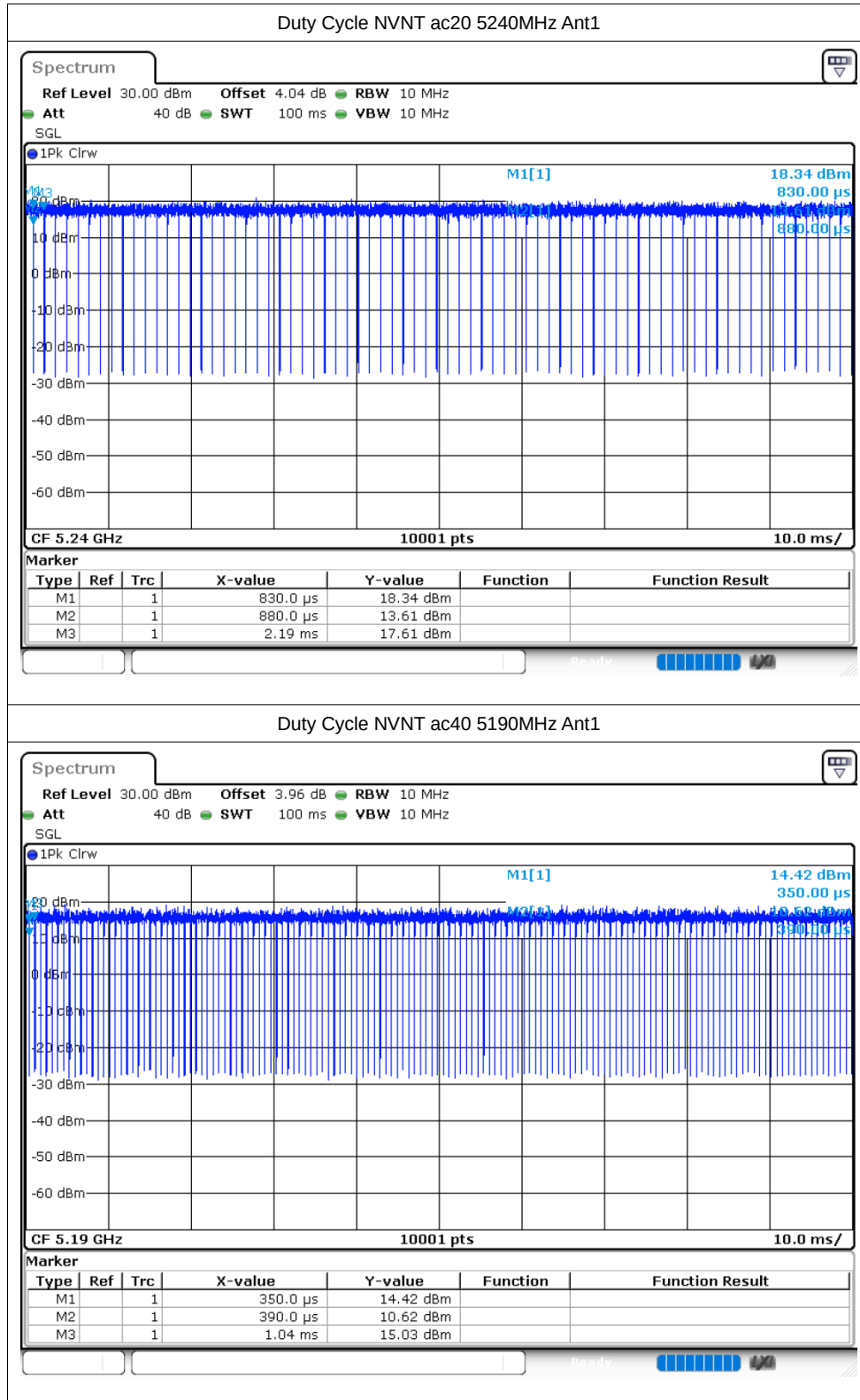
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	170.0 μ s	15.12 dBm		
M2		1	210.0 μ s	14.21 dBm		
M3		1	1.6 ms	17.27 dBm		

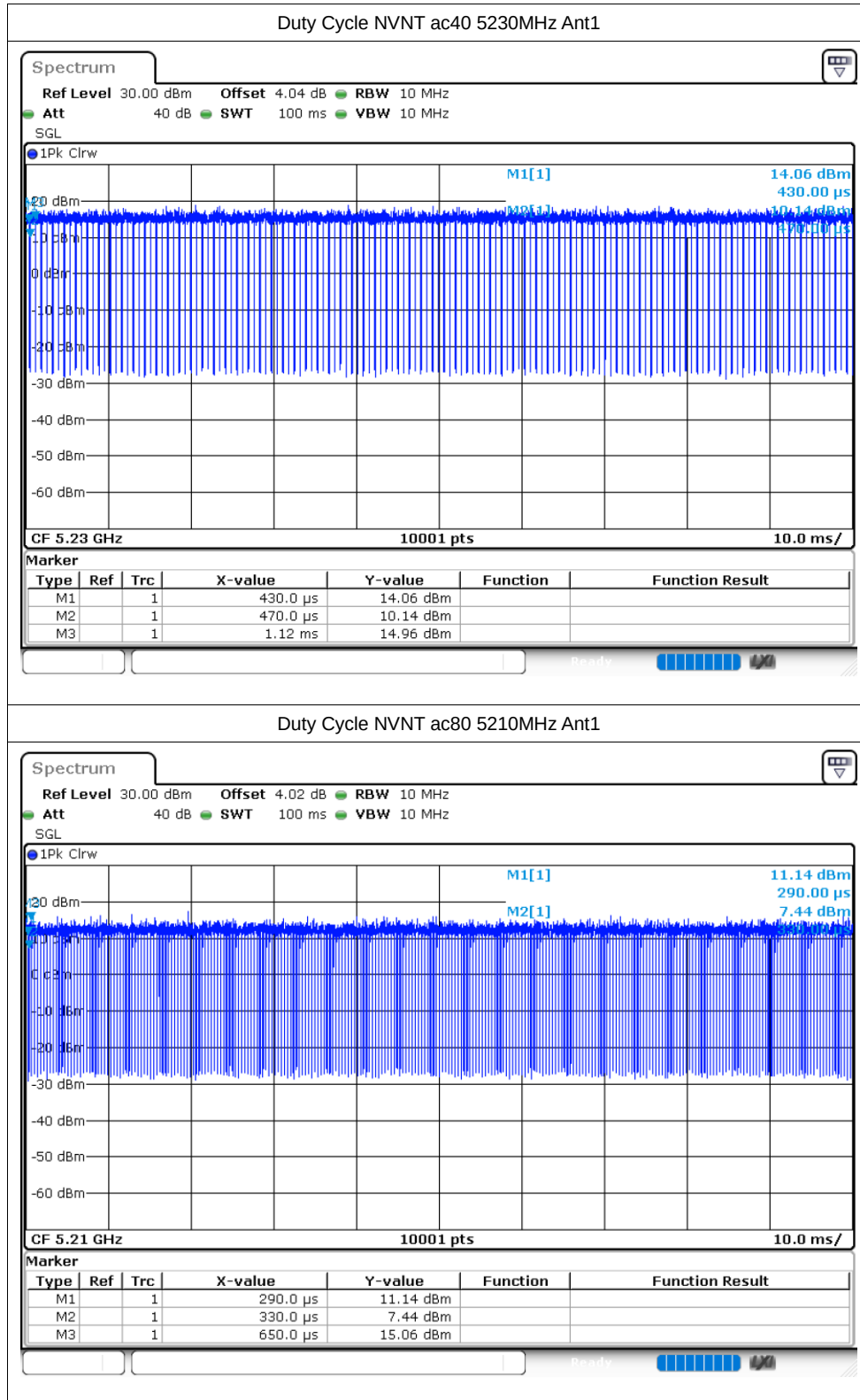












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.27	24	Pass
NVNT	a	5200	Ant1	12.41	24	Pass
NVNT	a	5240	Ant1	12.69	24	Pass
NVNT	n20	5180	Ant1	12.12	24	Pass
NVNT	n20	5200	Ant1	12.25	24	Pass
NVNT	n20	5240	Ant1	12.6	24	Pass
NVNT	n40	5190	Ant1	11.3	24	Pass
NVNT	n40	5230	Ant1	11.56	24	Pass
NVNT	ac20	5180	Ant1	12.34	24	Pass
NVNT	ac20	5200	Ant1	12.25	24	Pass
NVNT	ac20	5240	Ant1	12.36	24	Pass
NVNT	ac40	5190	Ant1	12.31	24	Pass
NVNT	ac40	5230	Ant1	12.33	24	Pass
NVNT	ac80	5210	Ant1	12.27	24	Pass

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.71	Pass
NVNT	a	5200	Ant1	19.668	Pass
NVNT	a	5240	Ant1	19.761	Pass
NVNT	n20	5180	Ant1	20.073	Pass
NVNT	n20	5200	Ant1	20.064	Pass
NVNT	n20	5240	Ant1	20.352	Pass
NVNT	n40	5190	Ant1	41.016	Pass
NVNT	n40	5230	Ant1	40.752	Pass
NVNT	ac20	5180	Ant1	19.917	Pass
NVNT	ac20	5200	Ant1	20.205	Pass
NVNT	ac20	5240	Ant1	20.265	Pass
NVNT	ac40	5190	Ant1	40.644	Pass
NVNT	ac40	5230	Ant1	40.938	Pass
NVNT	ac80	5210	Ant1	81.036	Pass

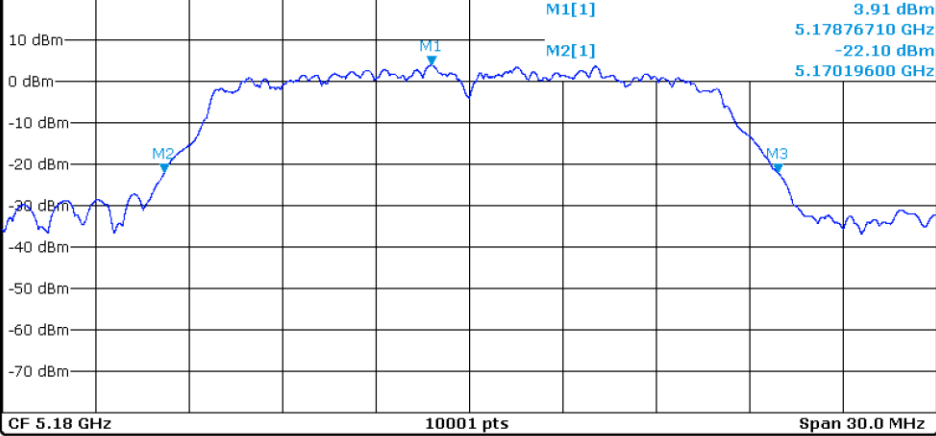
Test Graphs

-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

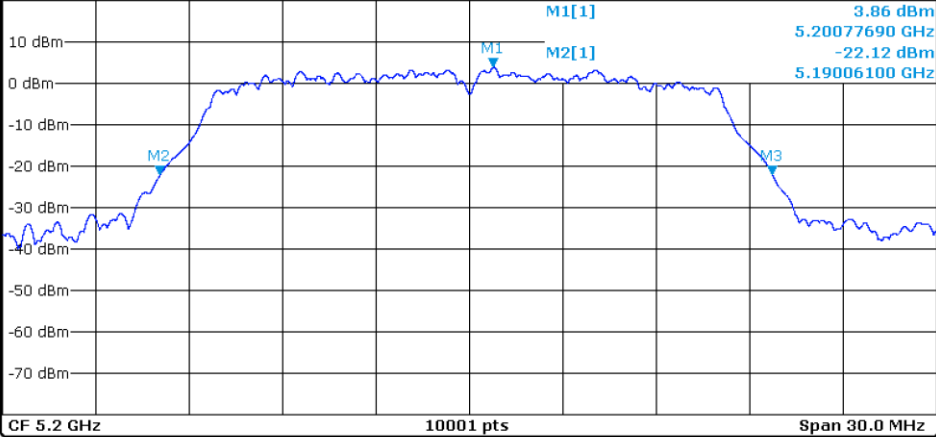
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1787671 GHz	3.91 dBm		
M2	1		5.170196 GHz	-22.10 dBm		
M3	1		5.189906 GHz	-22.10 dBm		

-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

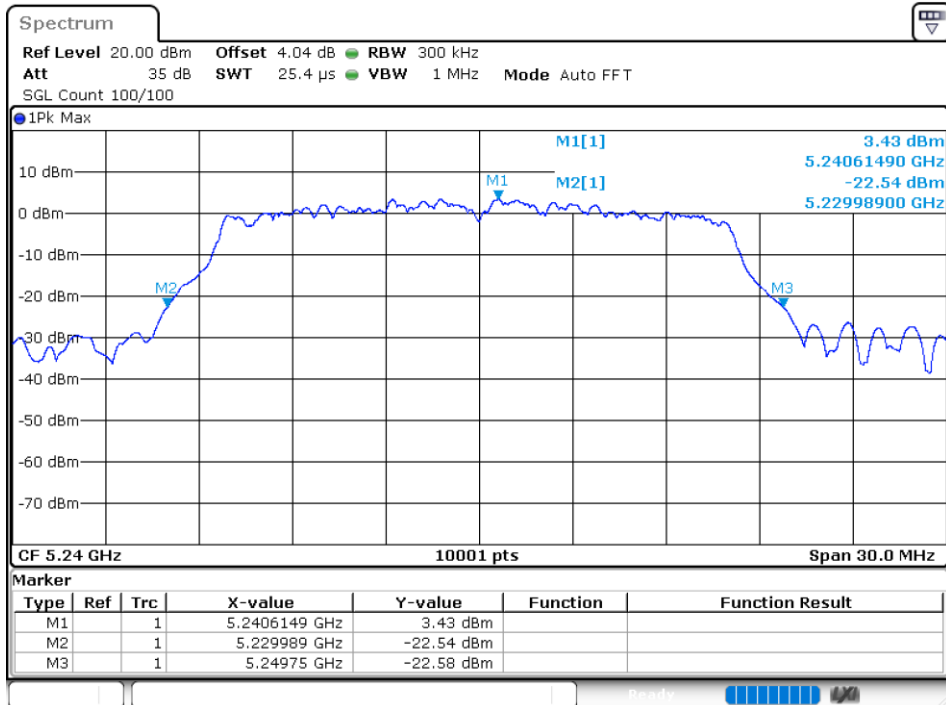
1Pk Max



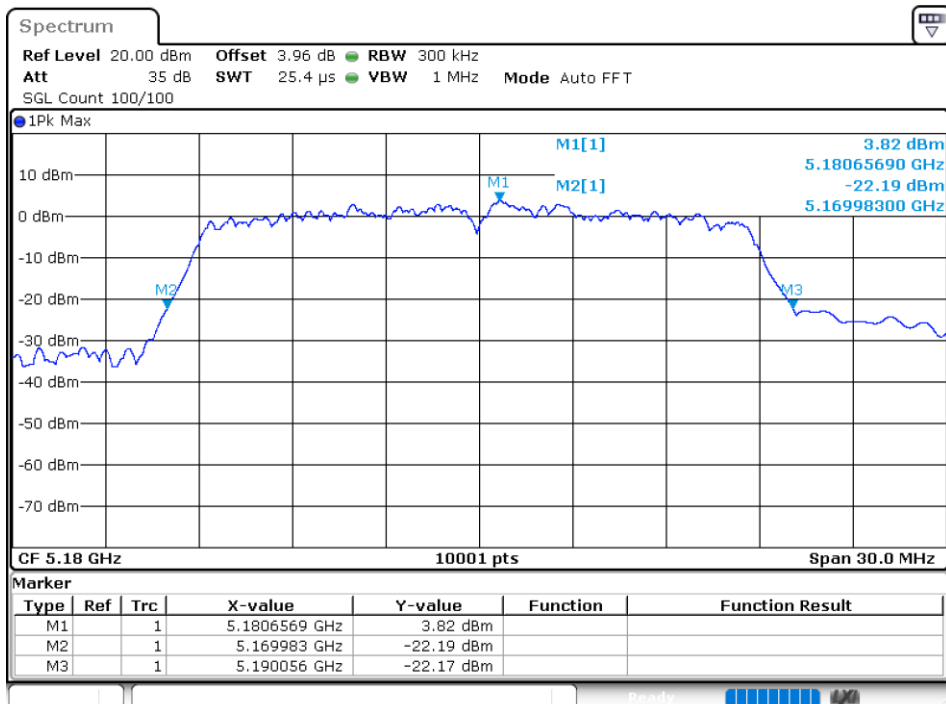
Marker

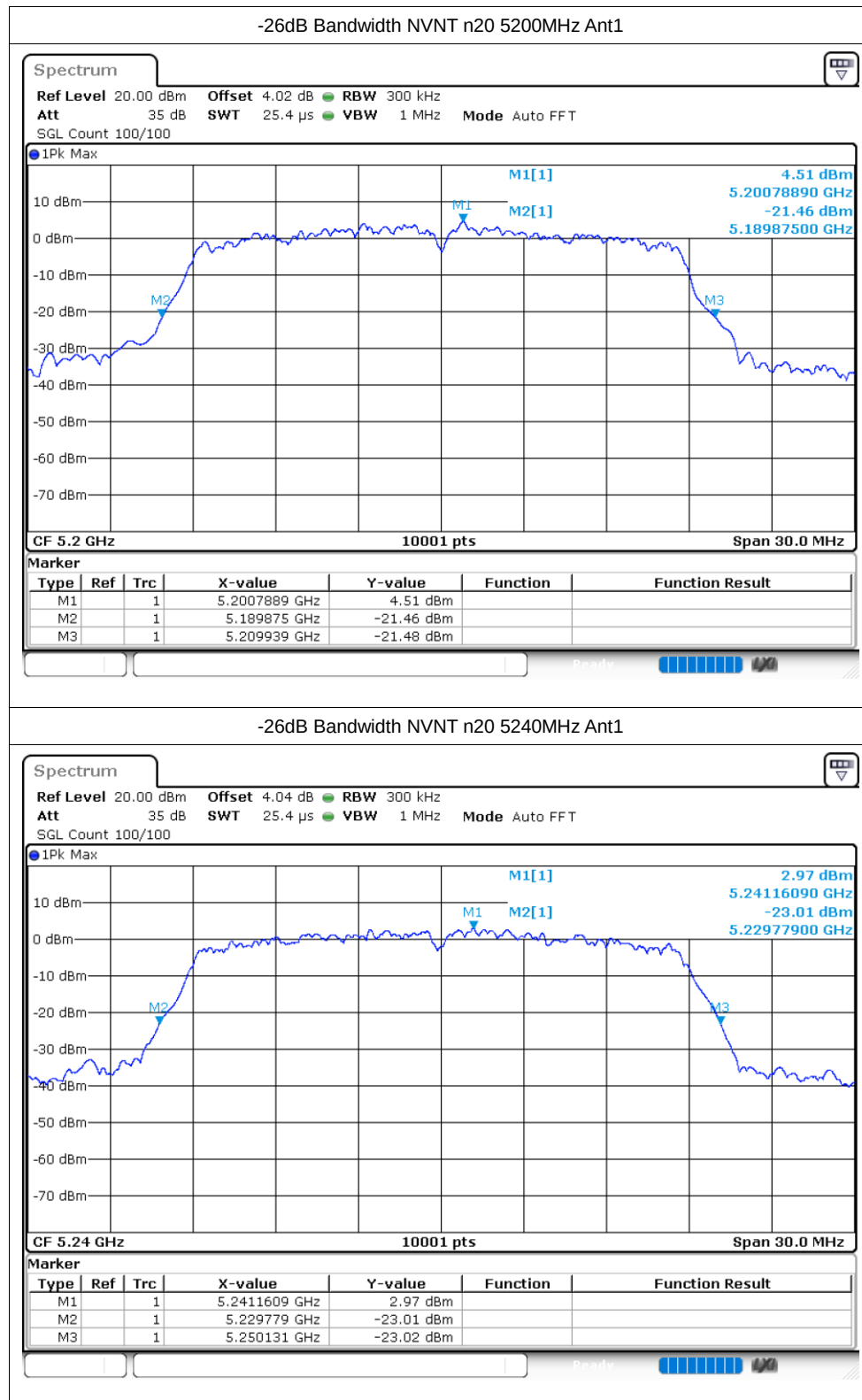
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.2007769 GHz	3.86 dBm		
M2	1		5.190061 GHz	-22.12 dBm		
M3	1		5.209729 GHz	-22.14 dBm		

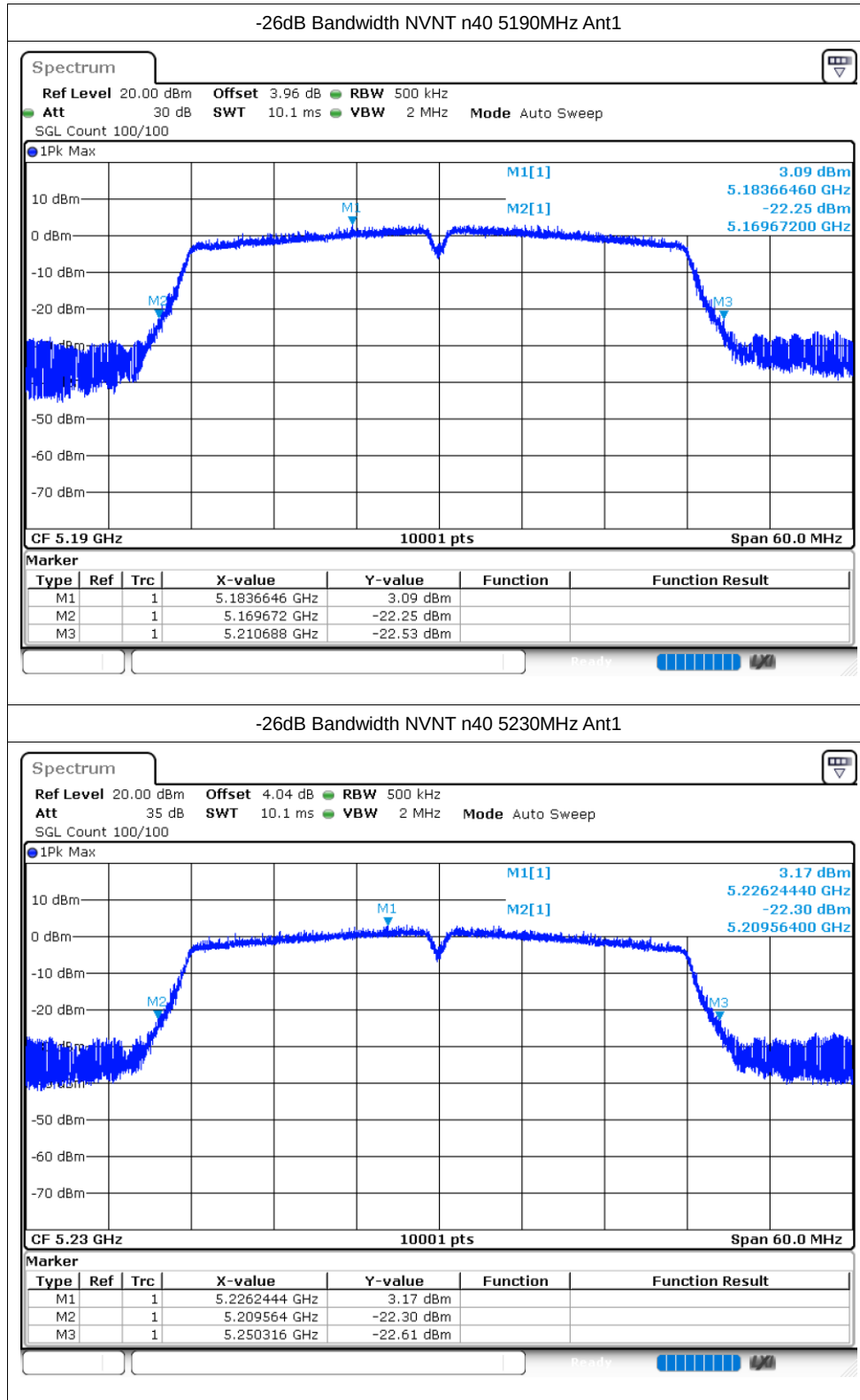
-26dB Bandwidth NVNT a 5240MHz Ant1

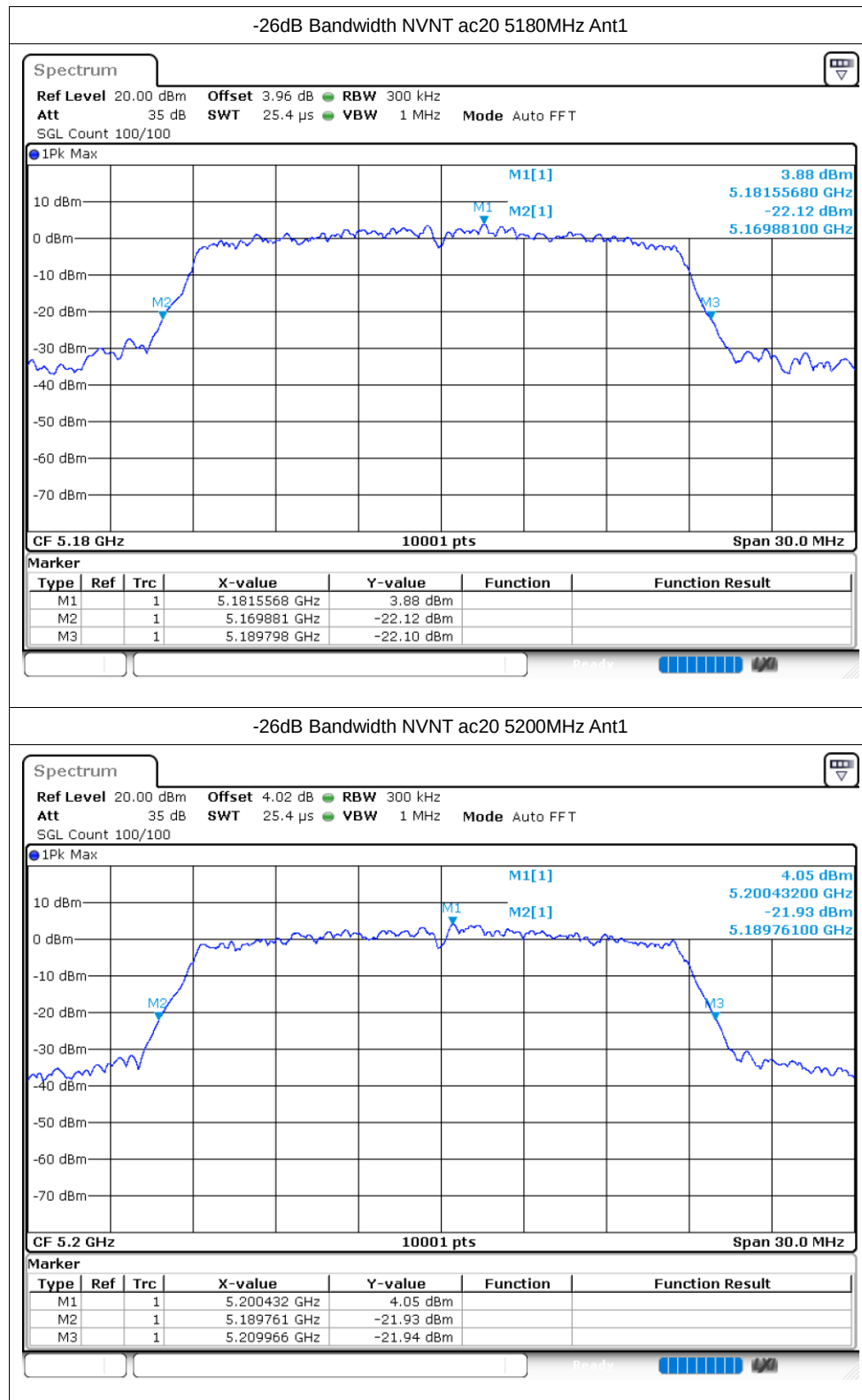


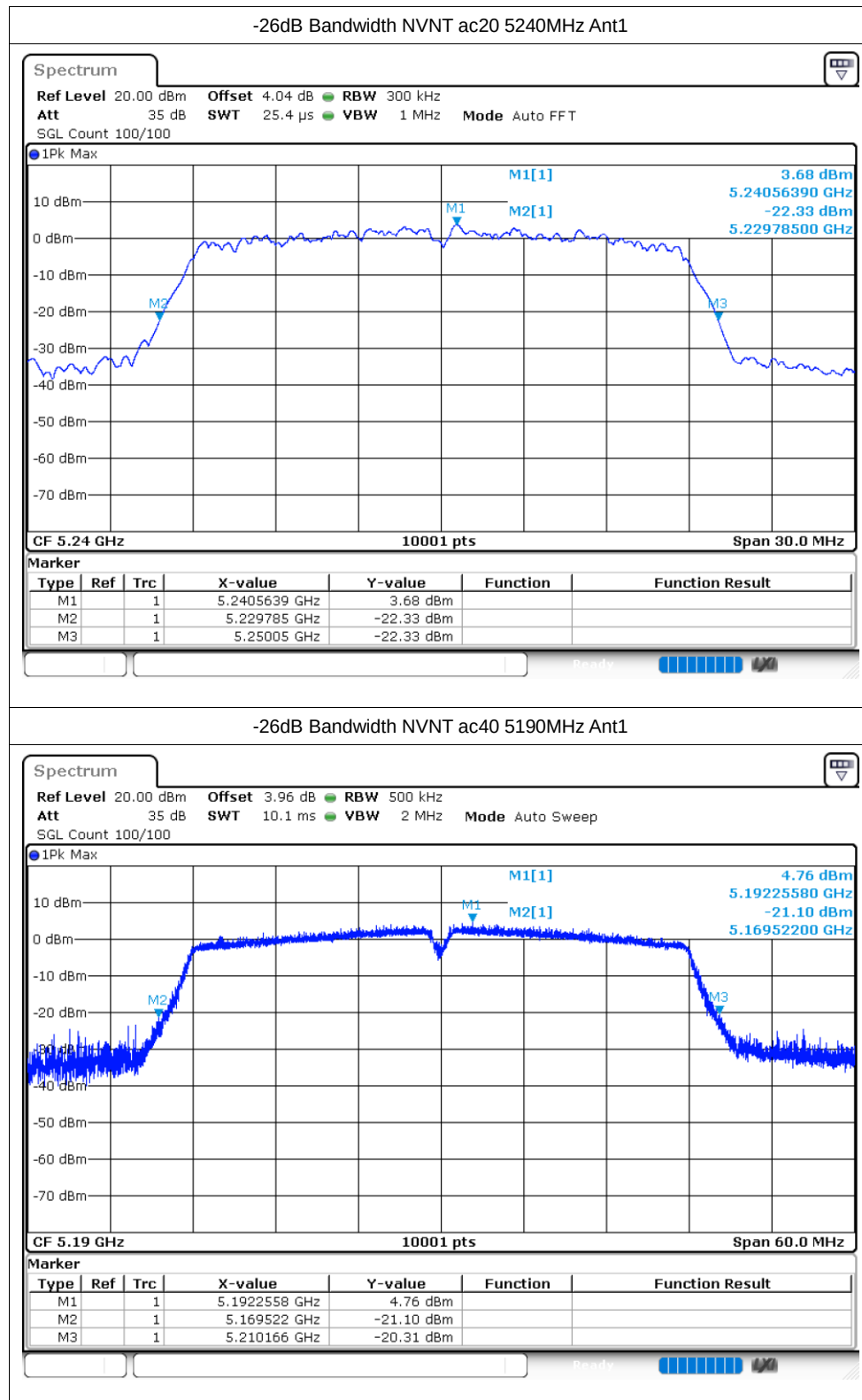
-26dB Bandwidth NVNT n20 5180MHz Ant1

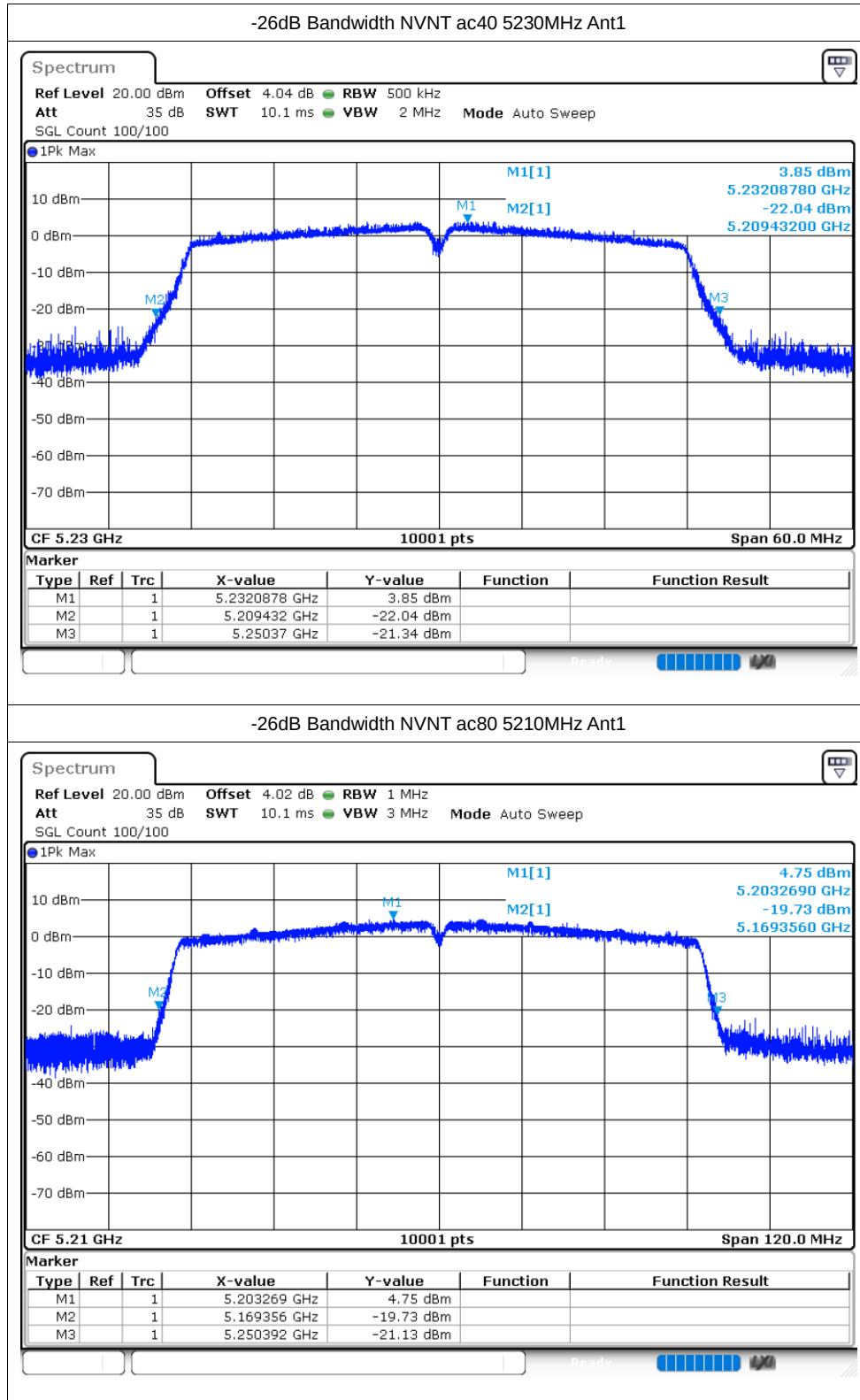










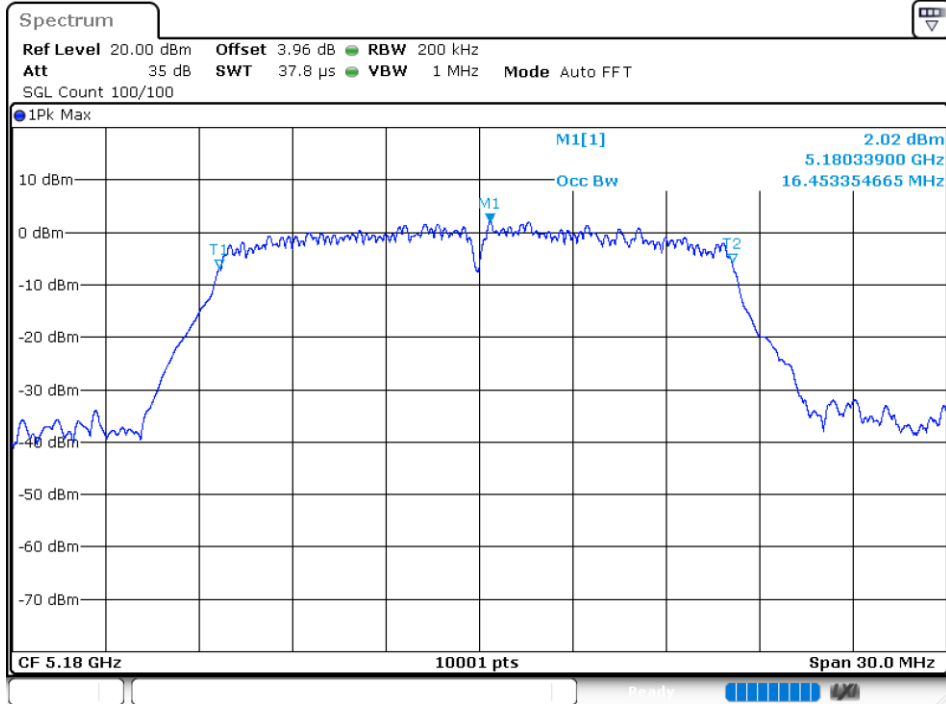


Occupied Channel Bandwidth

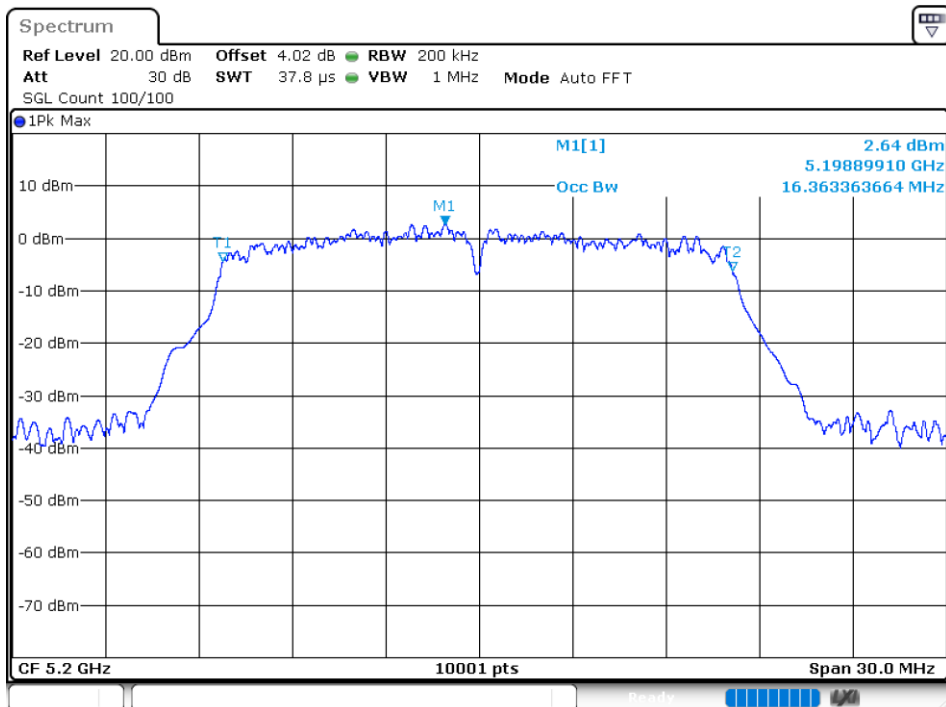
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.453
NVNT	a	5200	Ant1	16.363
NVNT	a	5240	Ant1	16.447
NVNT	n20	5180	Ant1	17.641
NVNT	n20	5200	Ant1	17.494
NVNT	n20	5240	Ant1	17.53
NVNT	n40	5190	Ant1	36.032
NVNT	n40	5230	Ant1	36.002
NVNT	ac20	5180	Ant1	17.641
NVNT	ac20	5200	Ant1	17.584
NVNT	ac20	5240	Ant1	17.626
NVNT	ac40	5190	Ant1	35.996
NVNT	ac40	5230	Ant1	35.972
NVNT	ac80	5210	Ant1	75.028

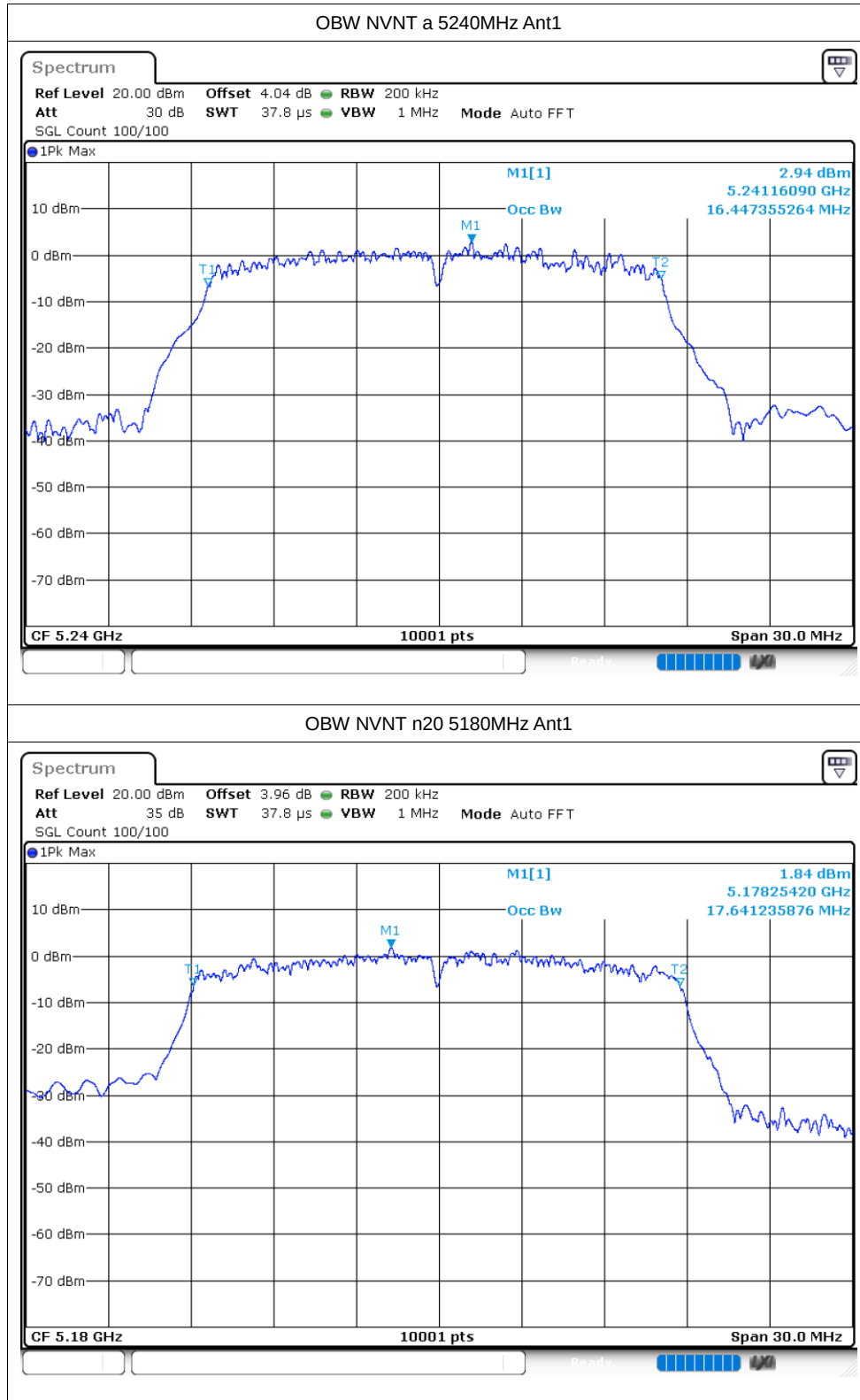
Test Graphs

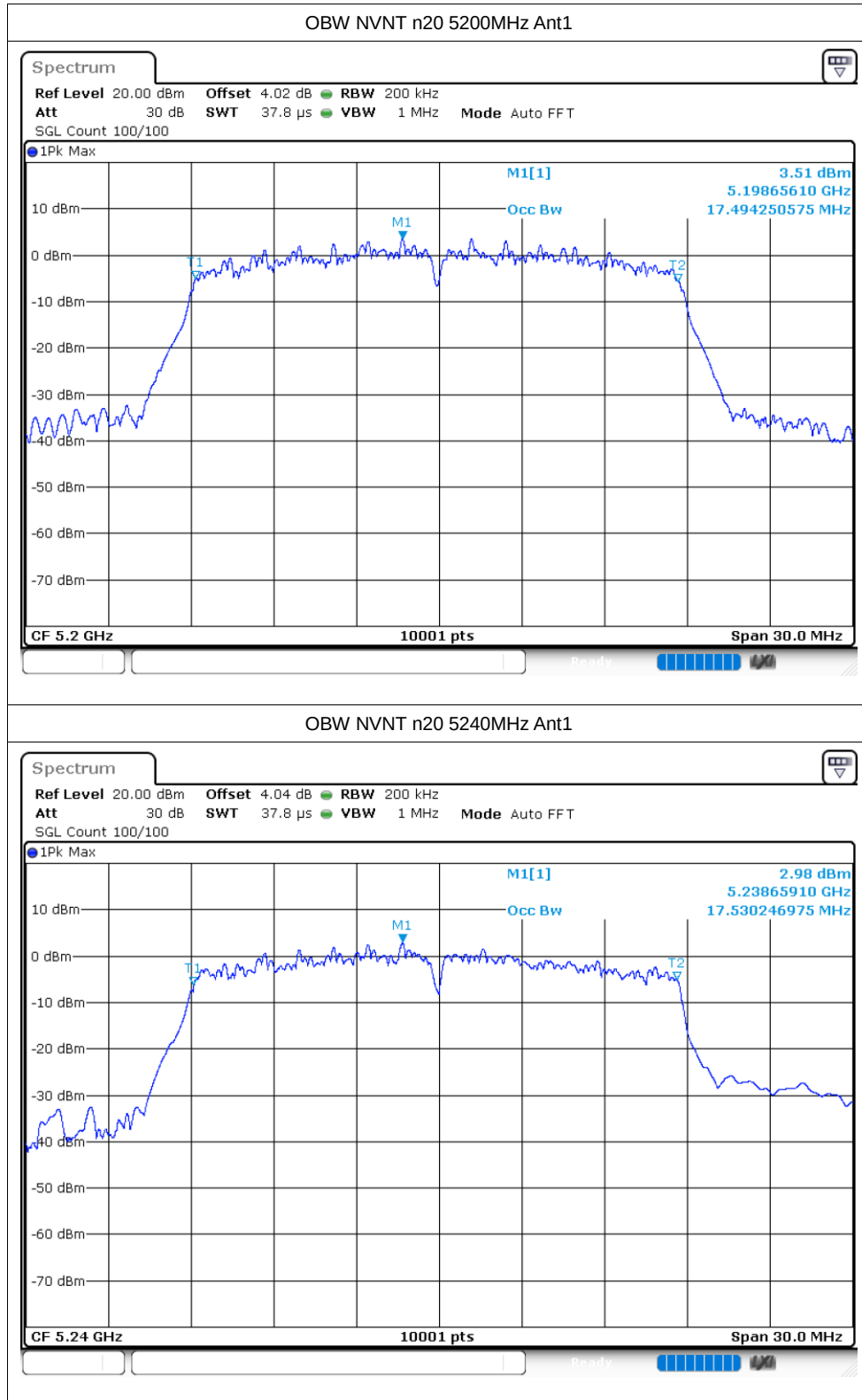
OBW NVNT a 5180MHz Ant1

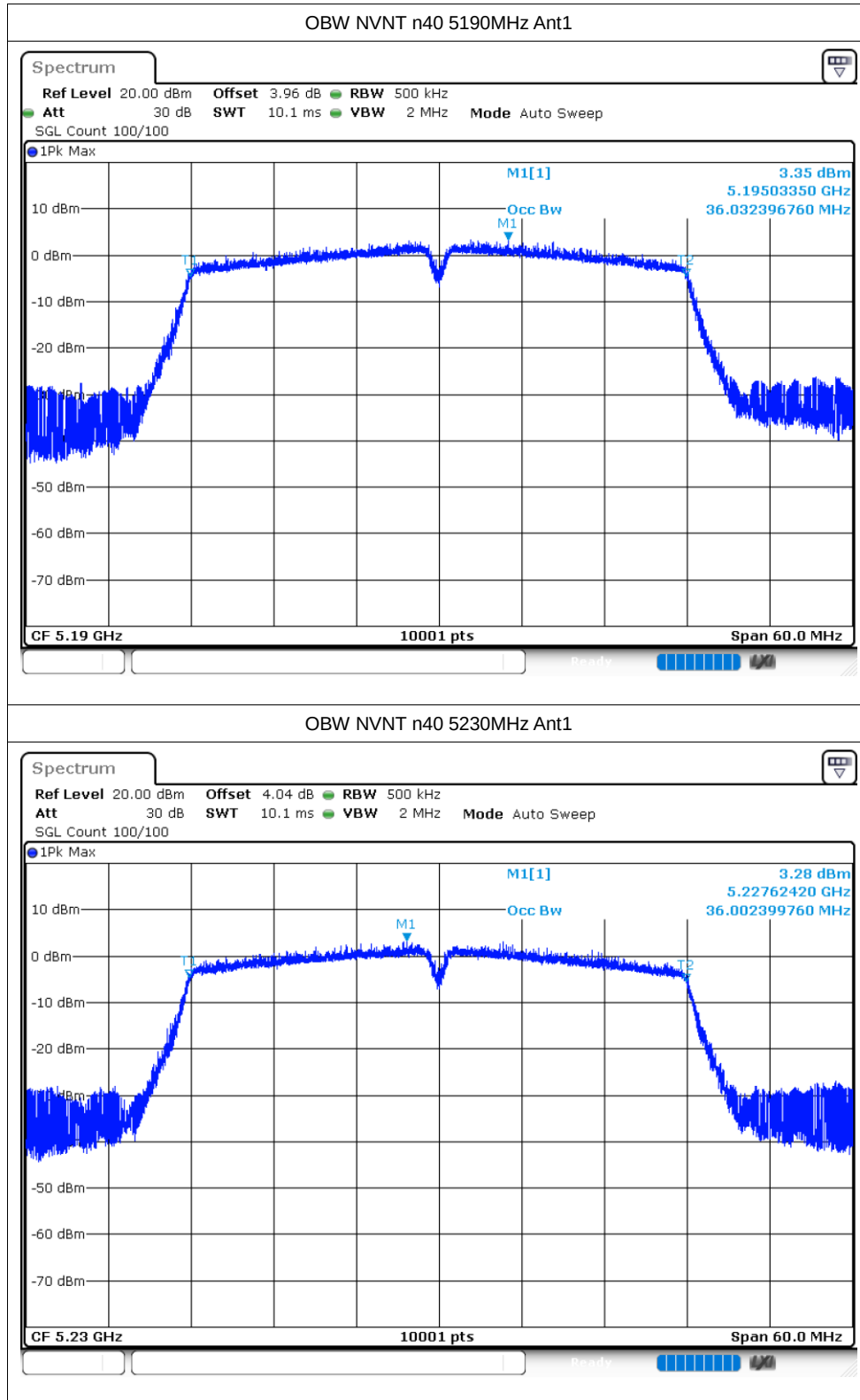


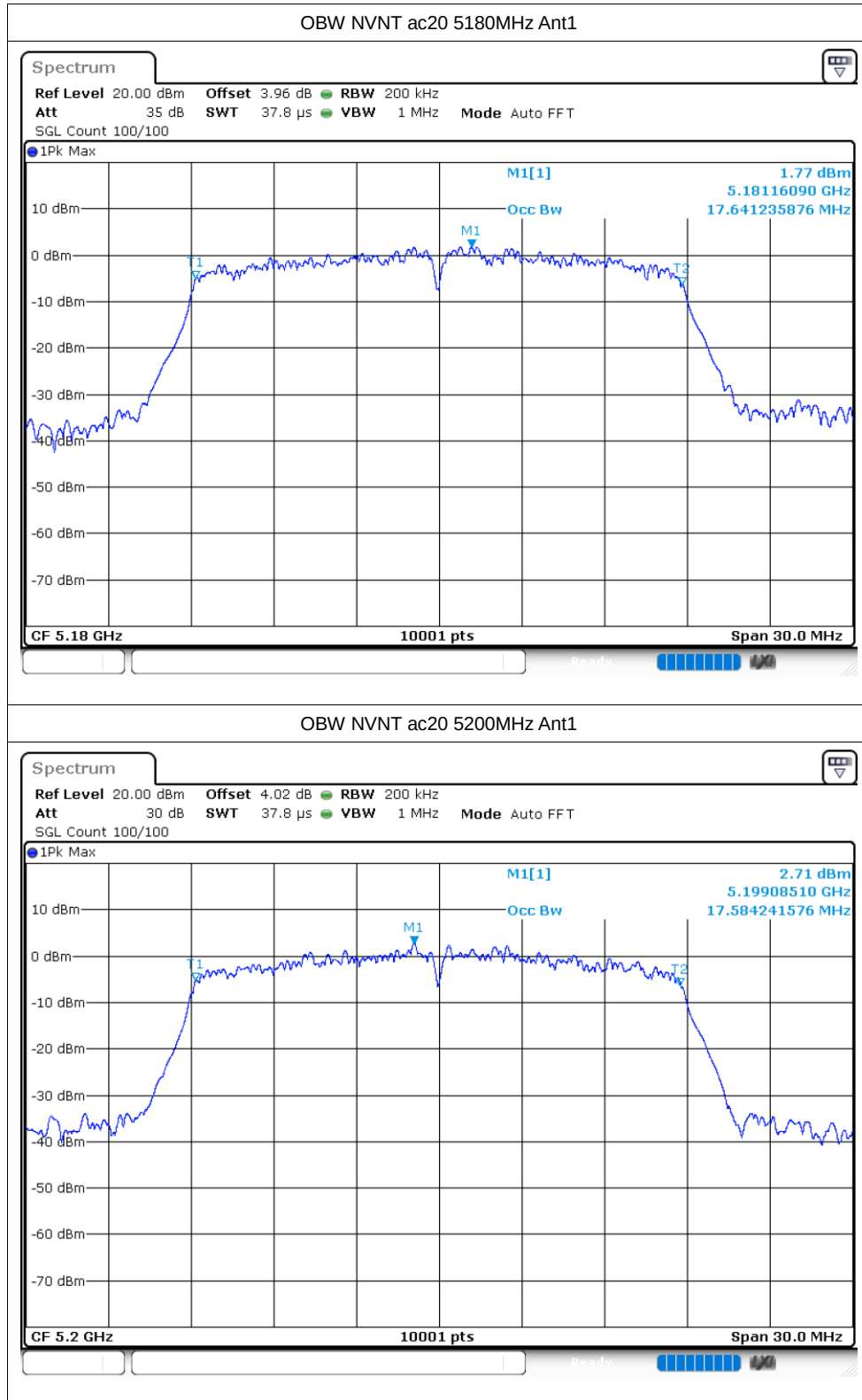
OBW NVNT a 5200MHz Ant1









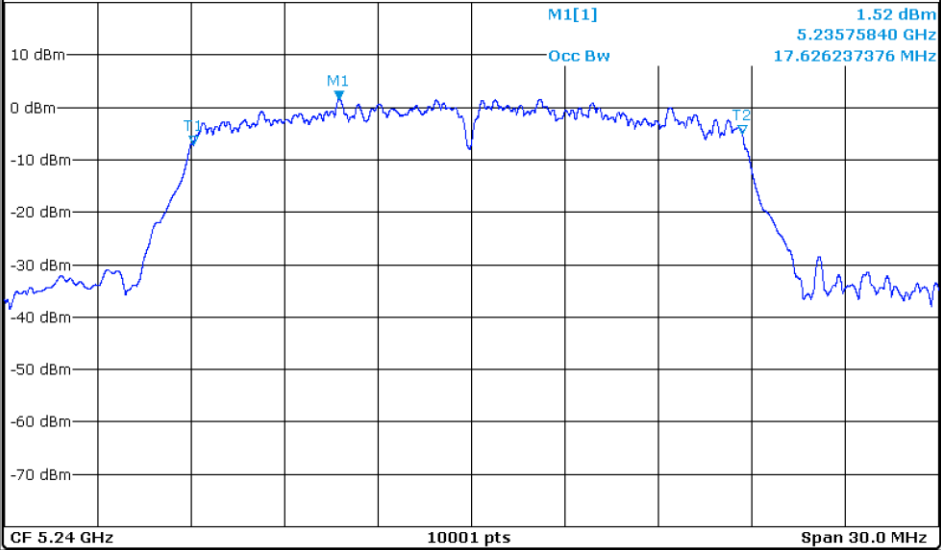


OBW NVNT ac20 5240MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.04 dB RBW 200 kHz
Att 30 dB SWT 37.8 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

1Pk Max

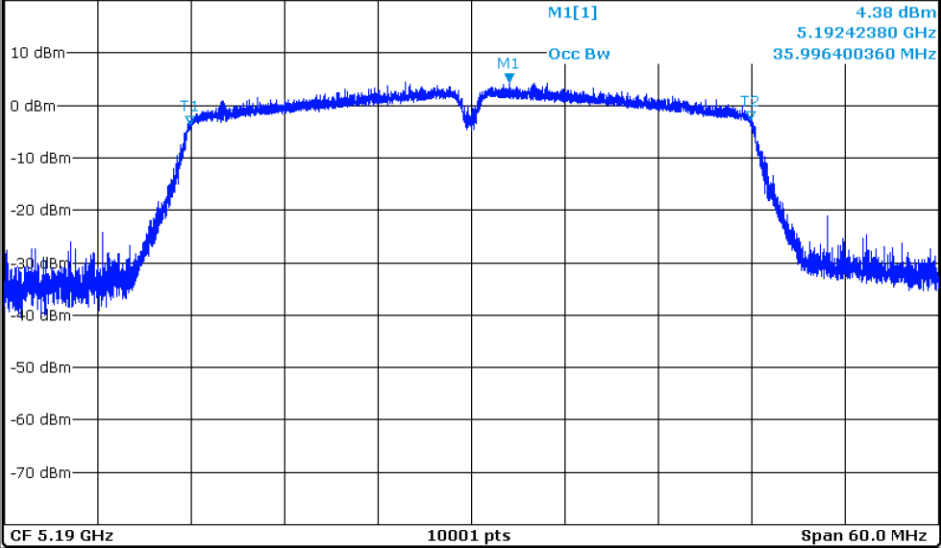


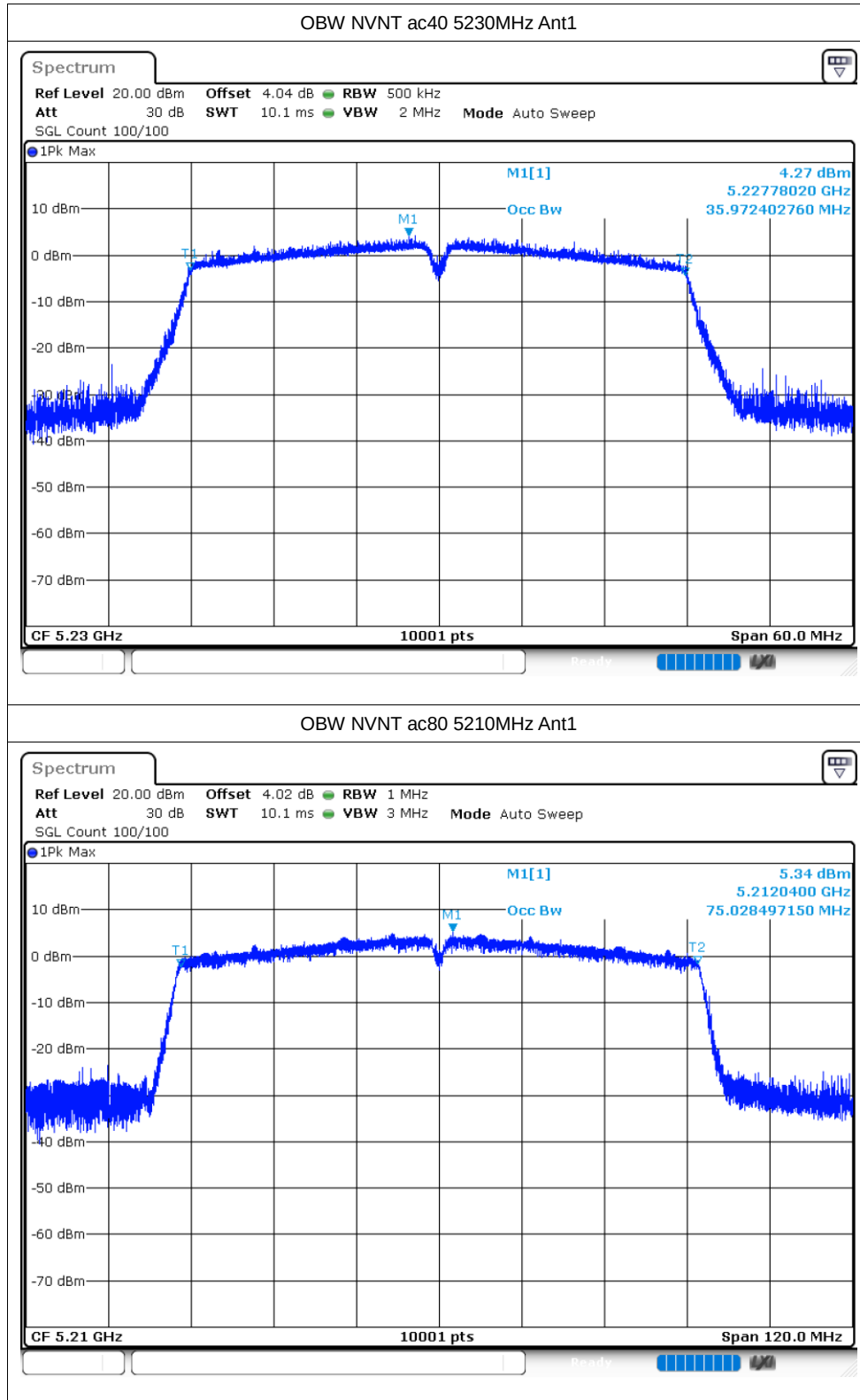
OBW NVNT ac40 5190MHz Ant1

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



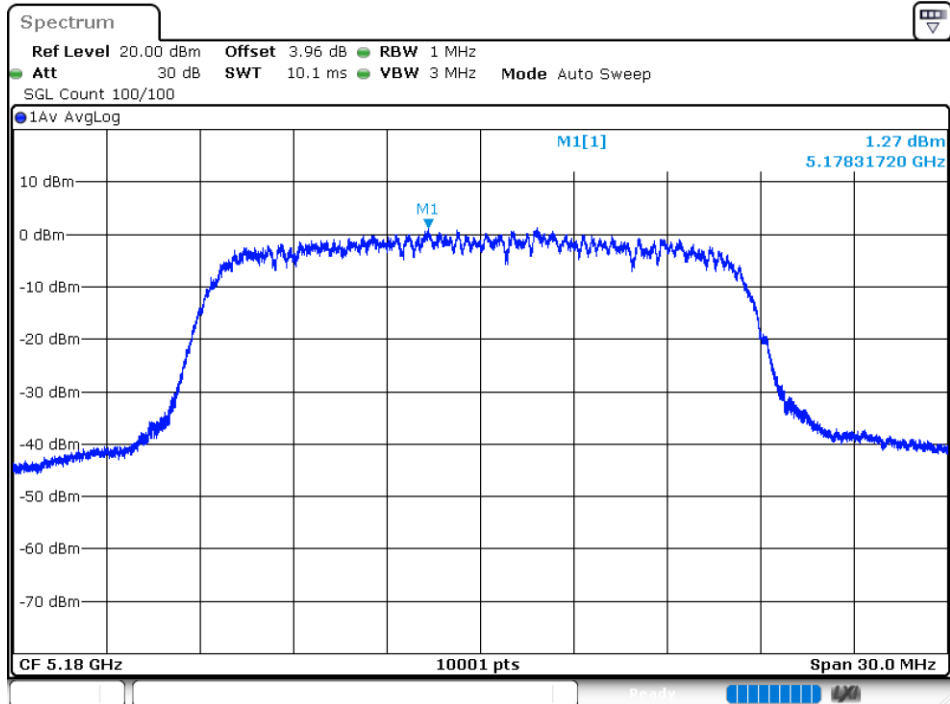


Maximum Power Spectral Density Level

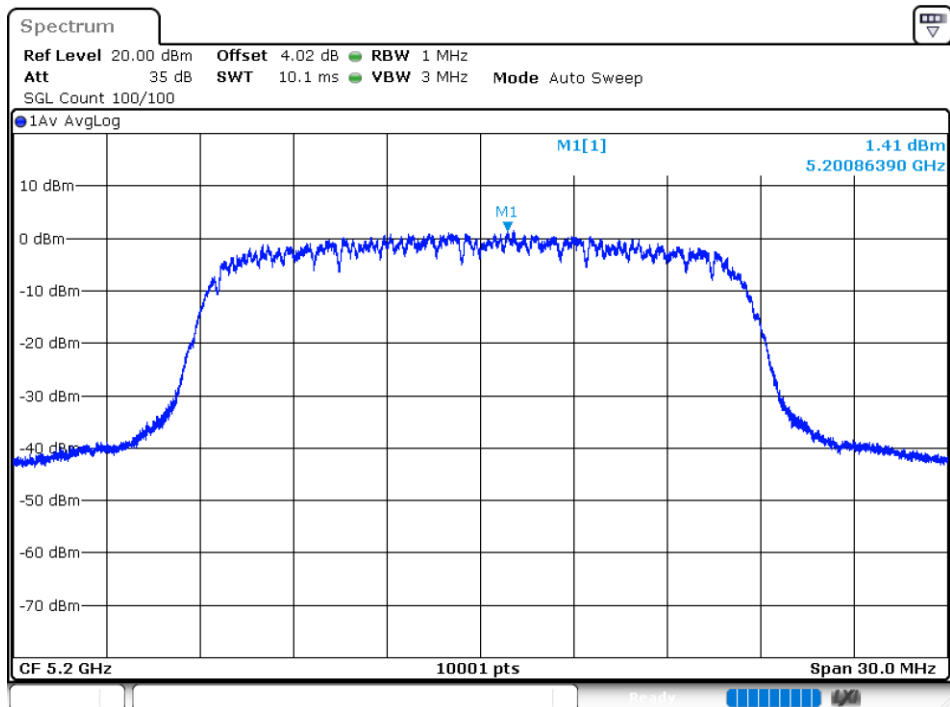
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.27	0.11	1.38	11	Pass
NVNT	a	5200	Ant1	1.41	0.11	1.52	11	Pass
NVNT	a	5240	Ant1	1.26	0.11	1.37	11	Pass
NVNT	n20	5180	Ant1	0.97	0.11	1.08	11	Pass
NVNT	n20	5200	Ant1	1.13	0.11	1.24	11	Pass
NVNT	n20	5240	Ant1	0.66	0.11	0.77	11	Pass
NVNT	n40	5190	Ant1	-3.85	0.22	-3.63	11	Pass
NVNT	n40	5230	Ant1	-3.72	0.22	-3.5	11	Pass
NVNT	ac20	5180	Ant1	0.81	0.11	0.92	11	Pass
NVNT	ac20	5200	Ant1	1.21	0.11	1.32	11	Pass
NVNT	ac20	5240	Ant1	1.23	0.11	1.34	11	Pass
NVNT	ac40	5190	Ant1	-2.69	0.22	-2.47	11	Pass
NVNT	ac40	5230	Ant1	-3.03	0.22	-2.81	11	Pass
NVNT	ac80	5210	Ant1	-7.74	0.42	-7.32	11	Pass

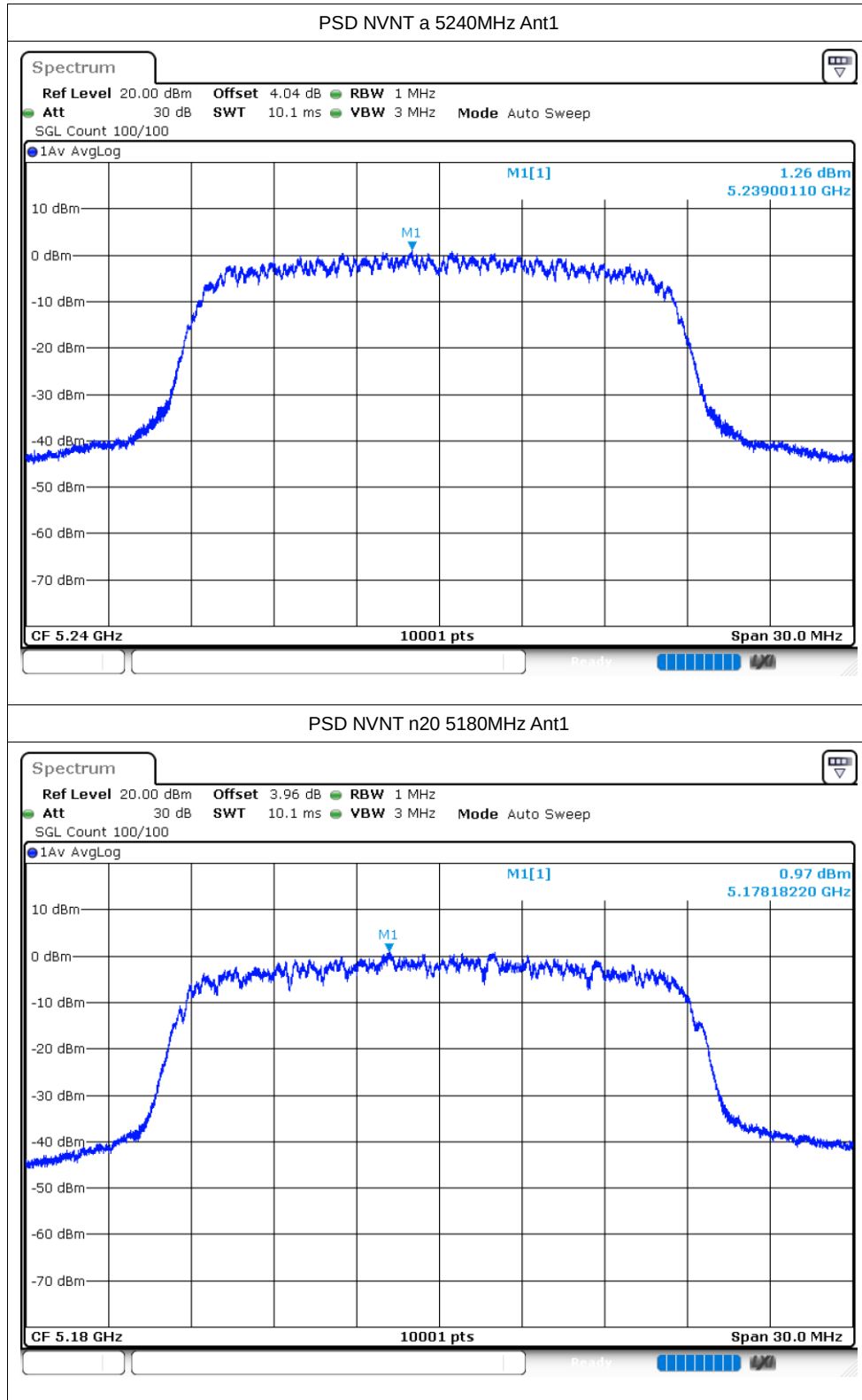
Test Graphs

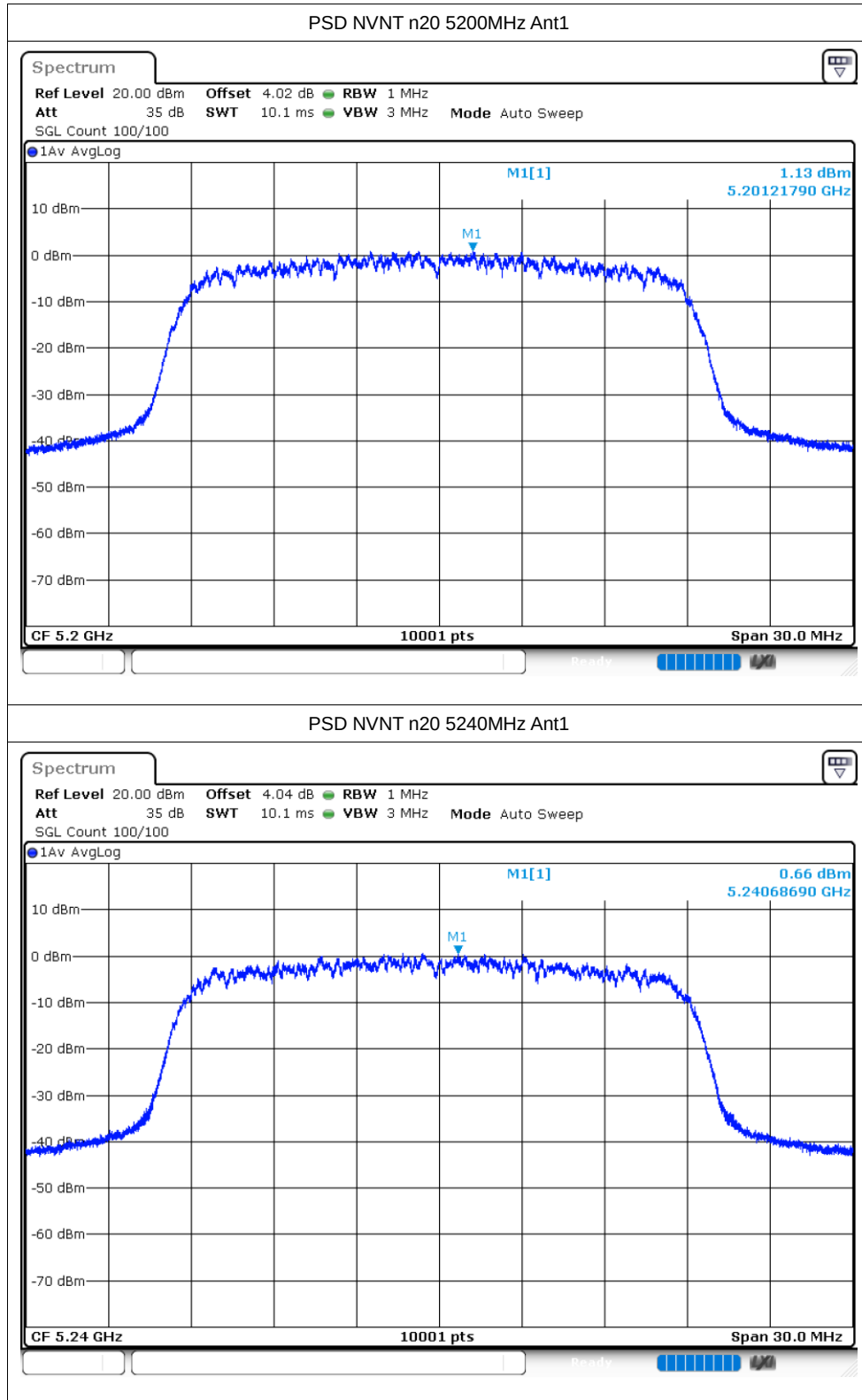
PSD NVNT a 5180MHz Ant1

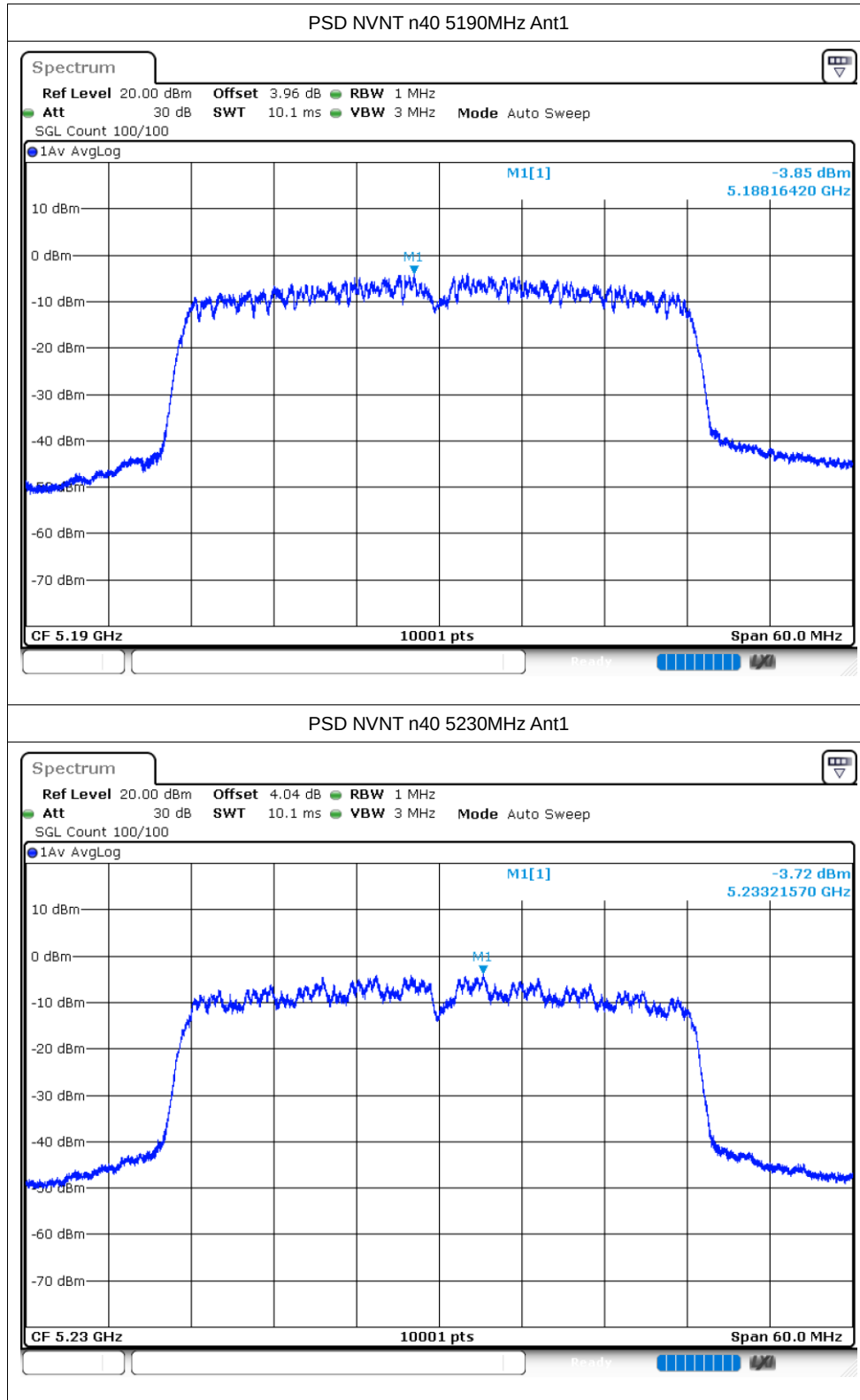


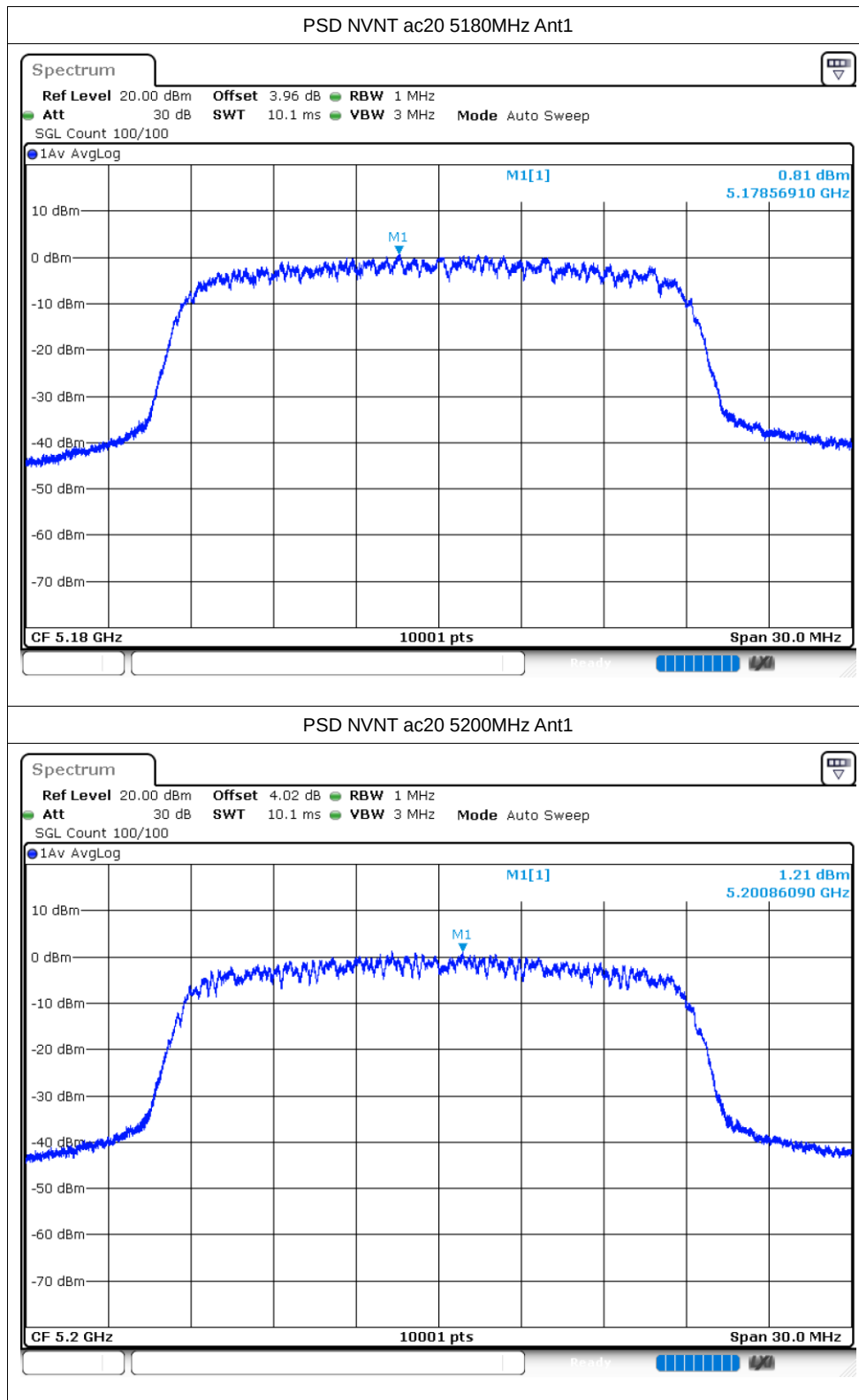
PSD NVNT a 5200MHz Ant1

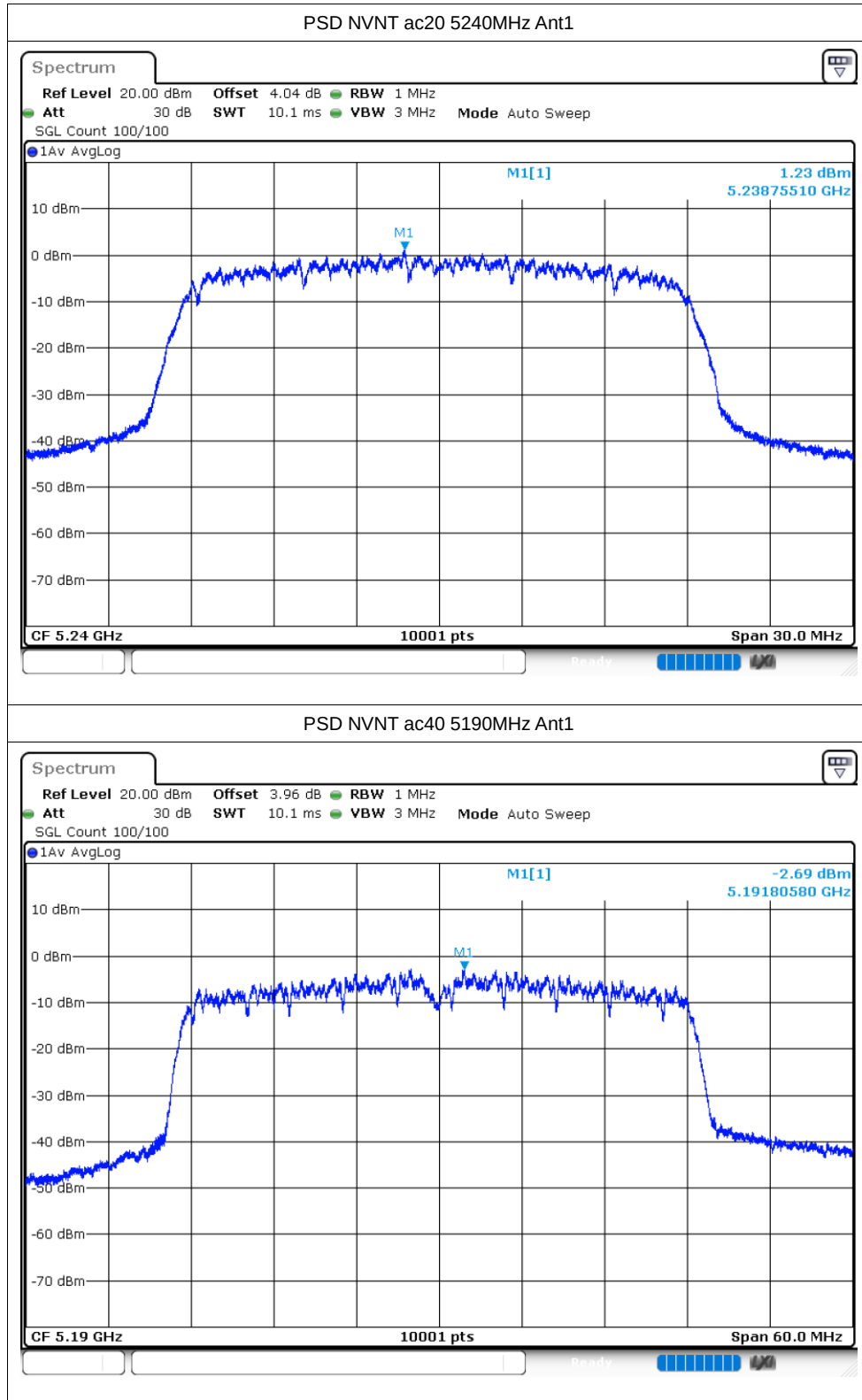


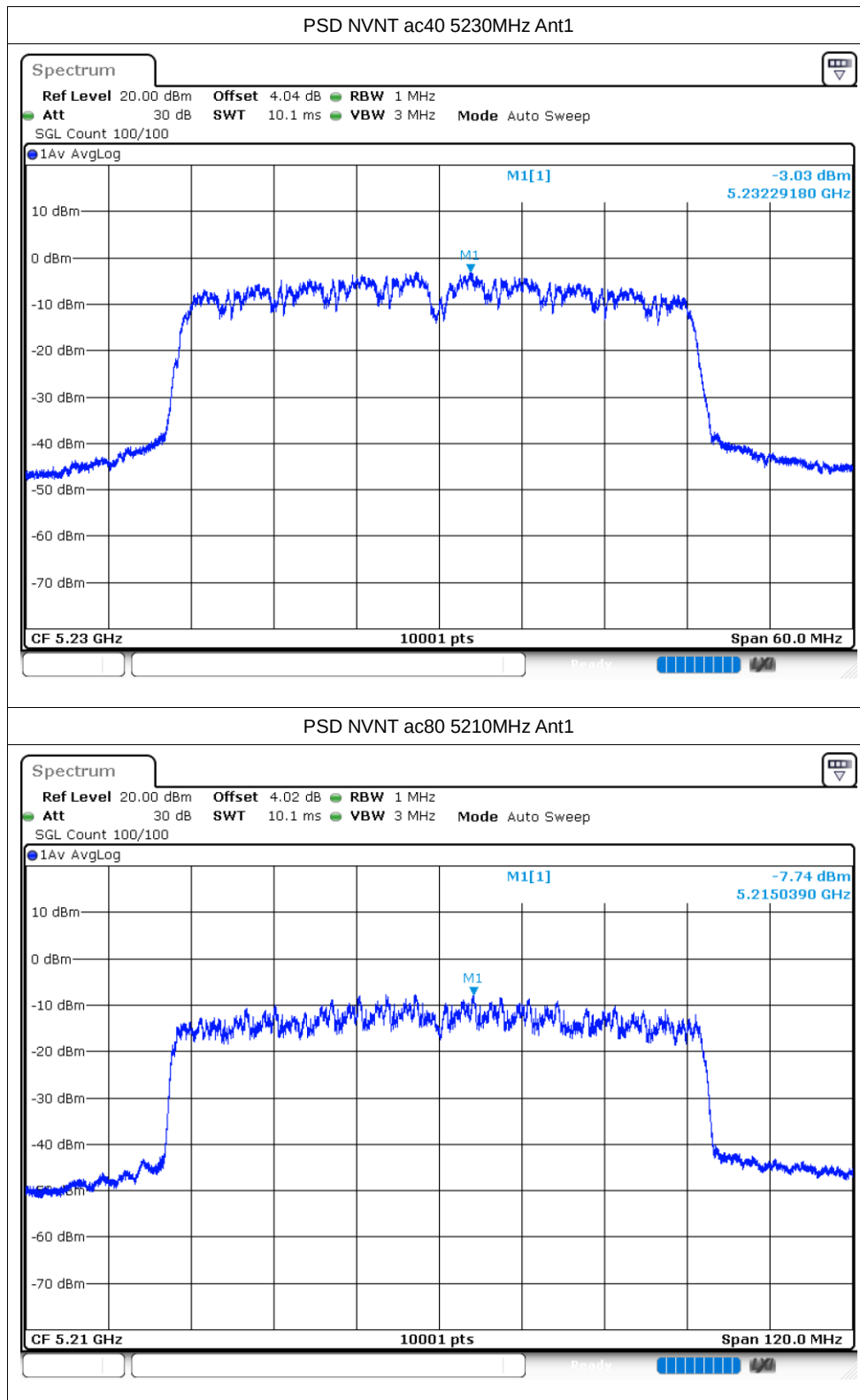










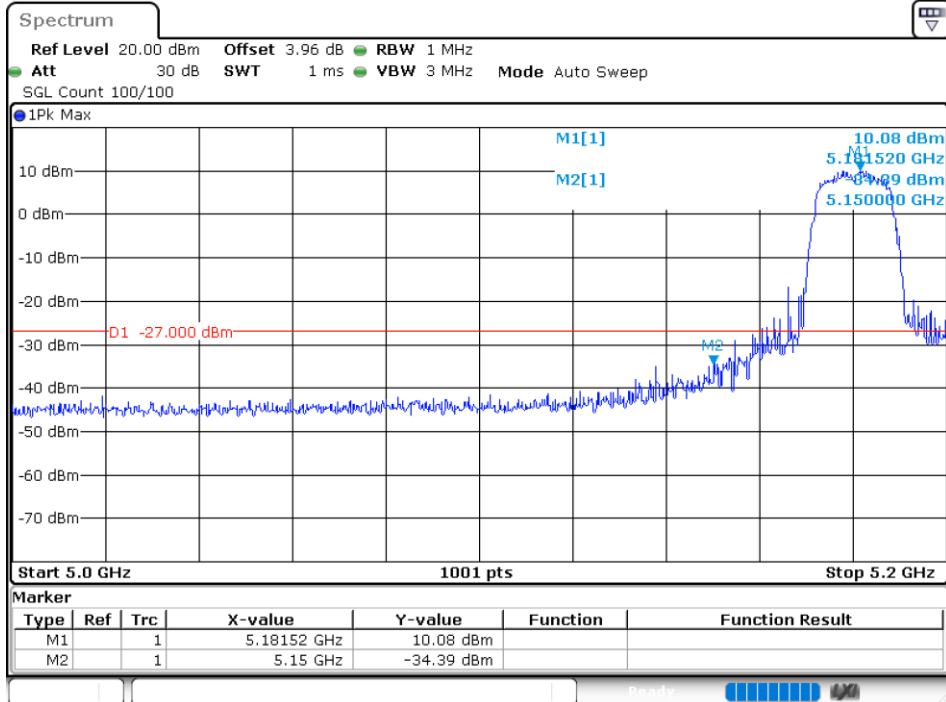


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-34.38	-27	Pass
NVNT	a	5240	Ant1	-42.17	-27	Pass
NVNT	n20	5180	Ant1	-33.55	-27	Pass
NVNT	n20	5240	Ant1	-42.39	-27	Pass
NVNT	n40	5190	Ant1	-27.54	-27	Pass
NVNT	n40	5230	Ant1	-42.15	-27	Pass
NVNT	ac20	5180	Ant1	-34.34	-27	Pass
NVNT	ac20	5240	Ant1	-41.06	-27	Pass
NVNT	ac40	5190	Ant1	-30.97	-27	Pass
NVNT	ac40	5230	Ant1	-41.41	-27	Pass
NVNT	ac80	5210	Ant1	-41.25	-27	Pass
NVNT	ac80	5210	Ant1	-29.03	-27	Pass

Test Graphs

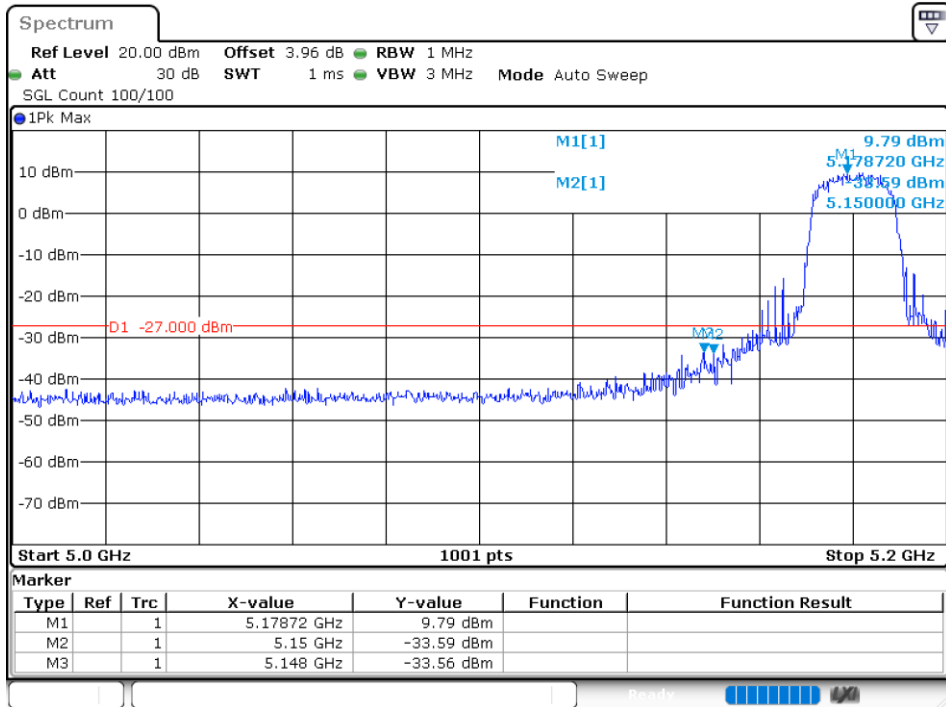
Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1



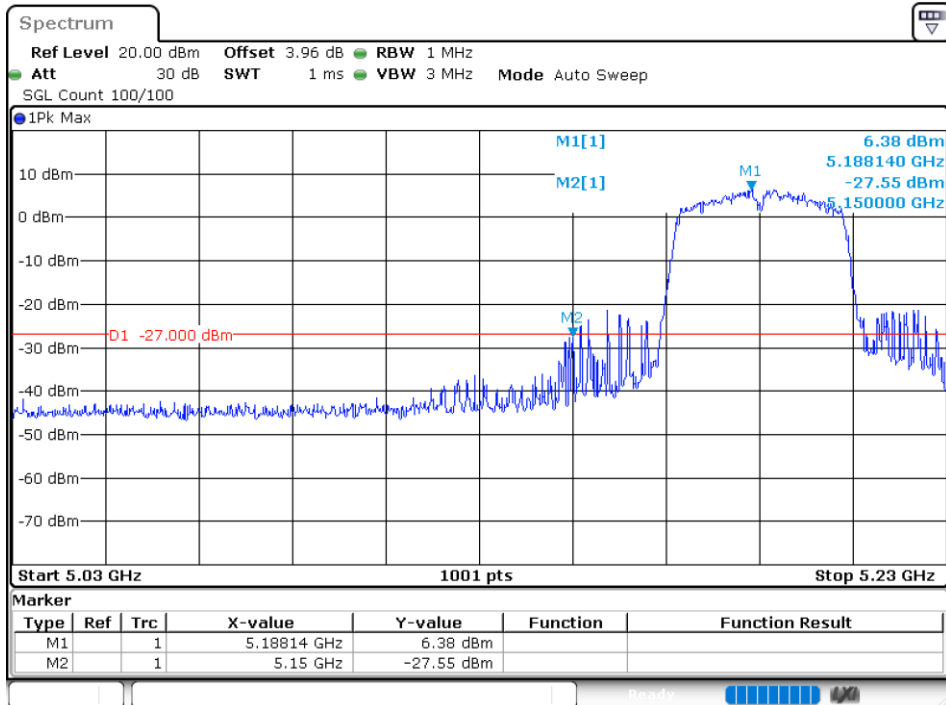
Band Edge NVNT n20 5180MHz Low Ant1



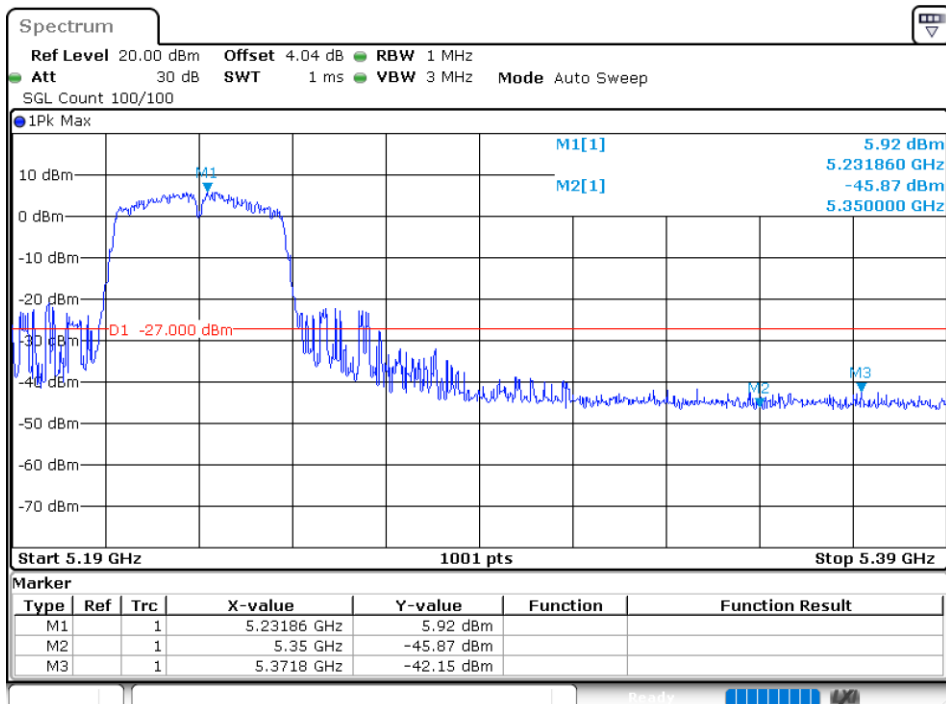
Band Edge NVNT n20 5240MHz High Ant1

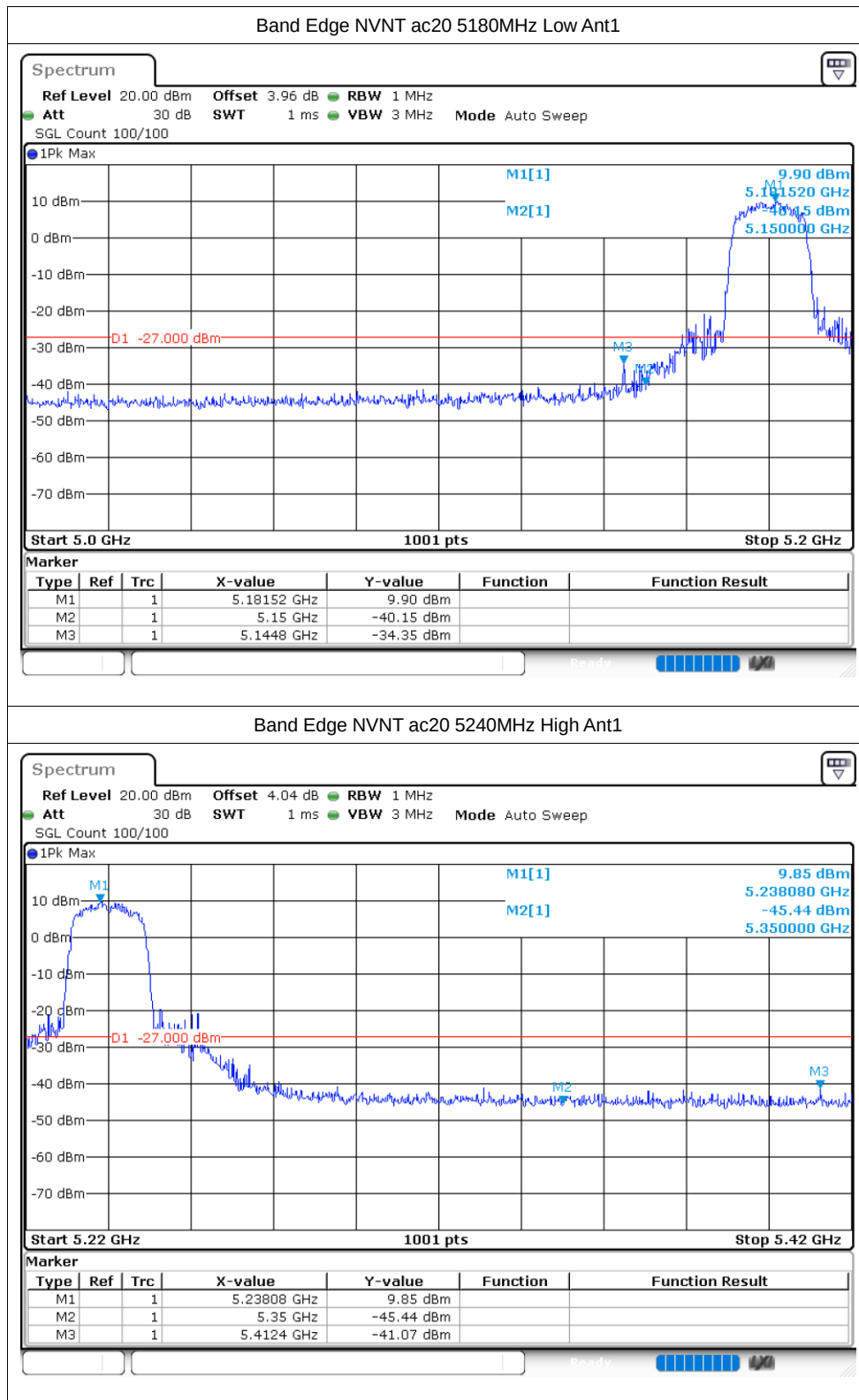


Band Edge NVNT n40 5190MHz Low Ant1



Band Edge NVNT n40 5230MHz High Ant1



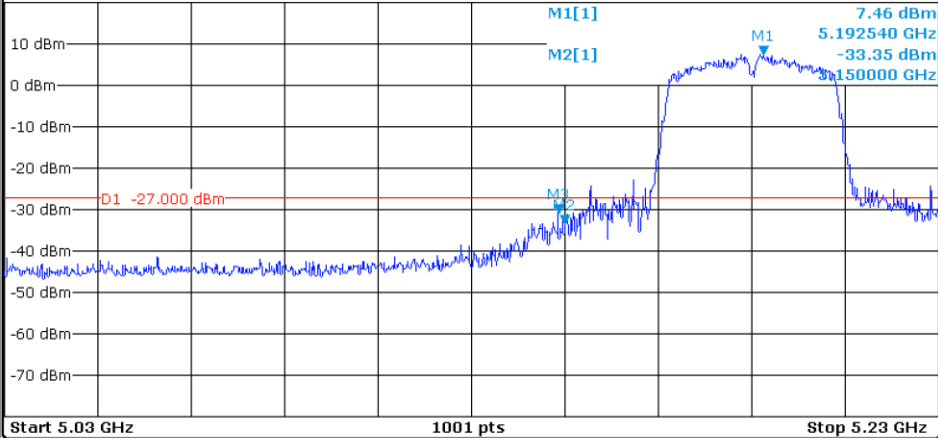


Band Edge NVNT ac40 5190MHz Low Ant1

Spectrum

Ref Level 20.00 dBm Offset 3.96 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

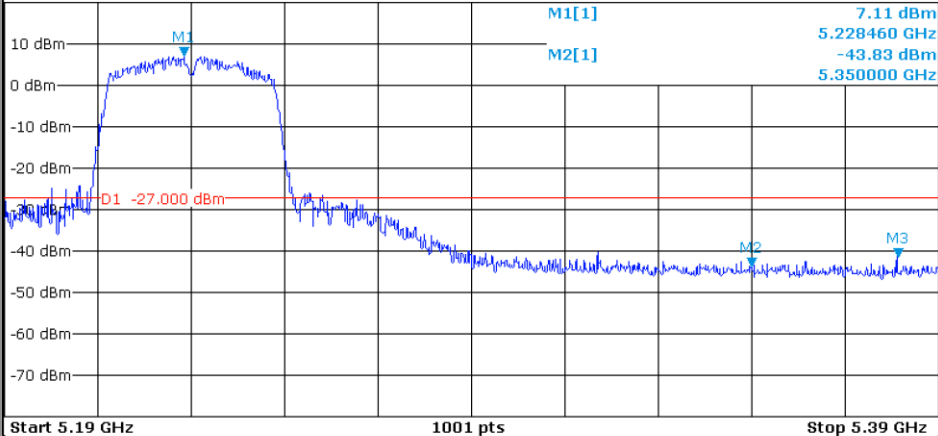
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.19254 GHz	7.46 dBm		
M2	1	1	5.15 GHz	-33.35 dBm		
M3	1	1	5.1486 GHz	-30.98 dBm		

Band Edge NVNT ac40 5230MHz High Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.04 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

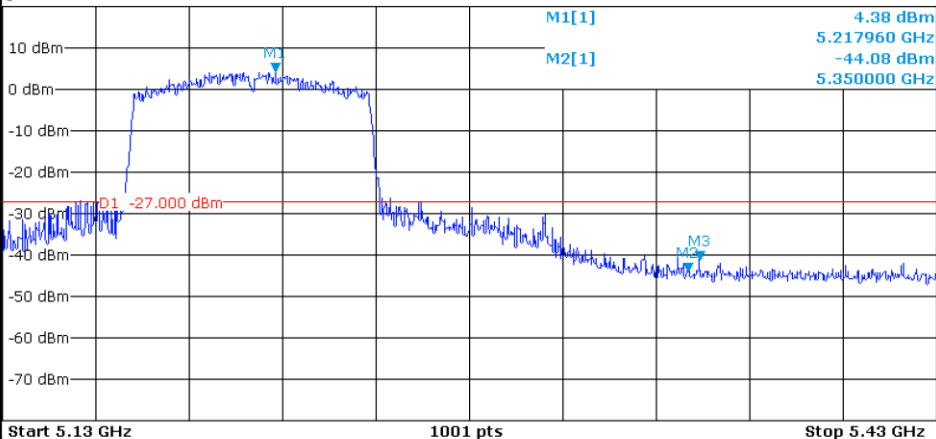
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	5.22846 GHz	7.11 dBm		
M2	1	1	5.35 GHz	-43.83 dBm		
M3	1	1	5.3812 GHz	-41.41 dBm		

Band Edge NVNT ac80 5210MHz High Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.02 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

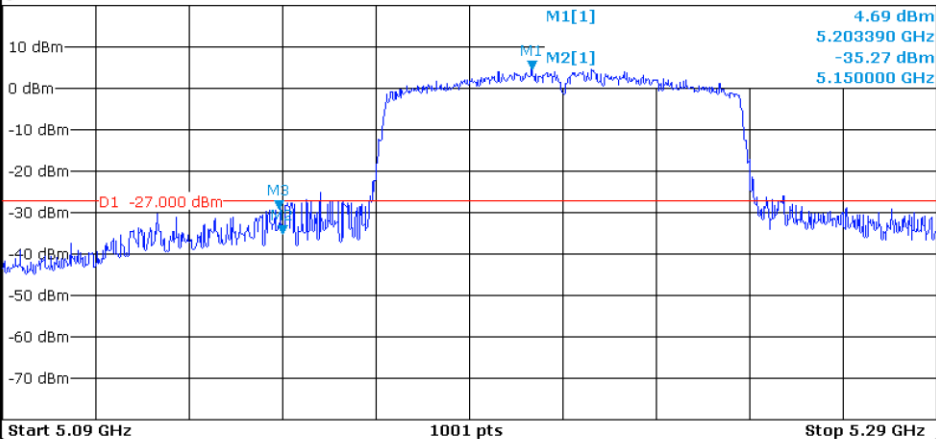
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.21796 GHz	4.38 dBm		
M2		1	5.35 GHz	-44.08 dBm		
M3		1	5.3538 GHz	-41.26 dBm		

Band Edge NVNT ac80 5210MHz Low Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.02 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Marker

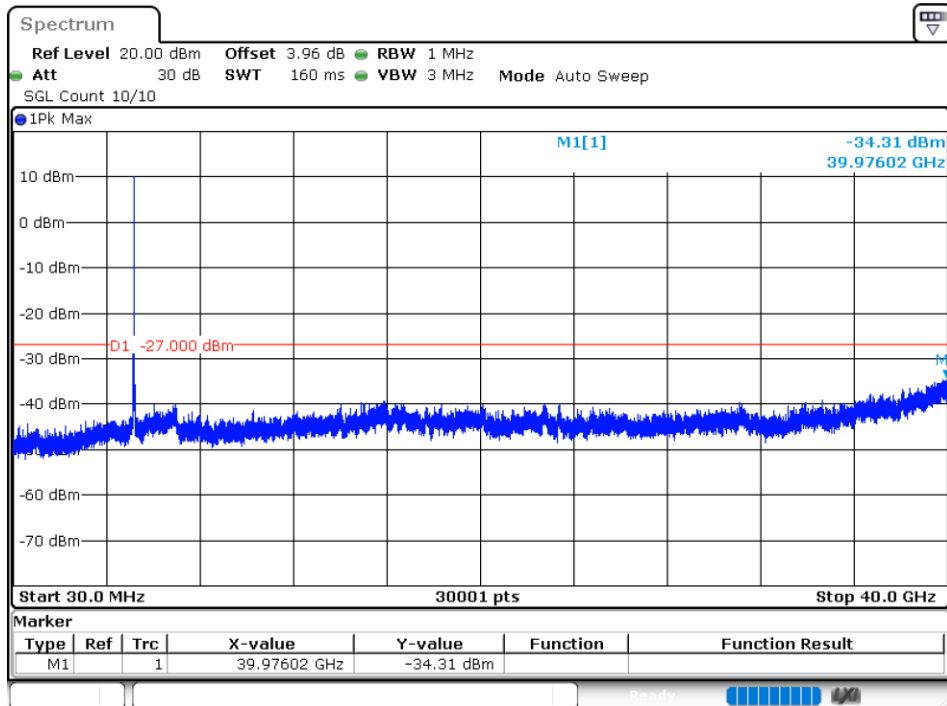
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.20339 GHz	4.69 dBm		
M2		1	5.15 GHz	-35.27 dBm		
M3		1	5.1494 GHz	-29.04 dBm		

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-34.31	-27	Pass
NVNT	a	5200	Ant1	-34.39	-27	Pass
NVNT	a	5240	Ant1	-33.48	-27	Pass
NVNT	n20	5180	Ant1	-33.84	-27	Pass
NVNT	n20	5200	Ant1	-34.5	-27	Pass
NVNT	n20	5240	Ant1	-33.56	-27	Pass
NVNT	n40	5190	Ant1	-33.55	-27	Pass
NVNT	n40	5230	Ant1	-33.71	-27	Pass
NVNT	ac20	5180	Ant1	-33.25	-27	Pass
NVNT	ac20	5200	Ant1	-33.09	-27	Pass
NVNT	ac20	5240	Ant1	-33.14	-27	Pass
NVNT	ac40	5190	Ant1	-34.21	-27	Pass
NVNT	ac40	5230	Ant1	-33.2	-27	Pass
NVNT	ac80	5210	Ant1	-33.84	-27	Pass

Test Graphs

Tx. Spurious NVNT a 5180MHz Ant1 Emission



Tx. Spurious NVNT a 5200MHz Ant1 Emission

