

WIFI 5.2G

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	34.46	4.63	0.19
NVNT	a	5200	Ant1	37.62	4.25	0.19
NVNT	a	5240	Ant1	37.16	4.3	0.19
NVNT	n20	5180	Ant1	30.62	5.14	0.2
NVNT	n20	5200	Ant1	30	5.23	0.2
NVNT	n20	5240	Ant1	34.84	4.58	0.2
NVNT	n40	5190	Ant1	29.94	5.24	0.21
NVNT	n40	5230	Ant1	33.56	4.74	0.21
NVNT	ac20	5180	Ant1	31.41	5.03	0.2
NVNT	ac20	5200	Ant1	31.15	5.07	0.2
NVNT	ac20	5240	Ant1	31.01	5.09	0.2
NVNT	ac40	5190	Ant1	33.57	4.74	0.21
NVNT	ac40	5230	Ant1	32.27	4.91	0.21
NVNT	ax20	5180	Ant1	28.2	5.5	0.26
NVNT	ax20	5200	Ant1	29.94	5.24	0.26
NVNT	ax20	5240	Ant1	26.59	5.75	0.26
NVNT	ax40	5190	Ant1	28.2	5.5	0.26
NVNT	ax40	5230	Ant1	28.71	5.42	0.26

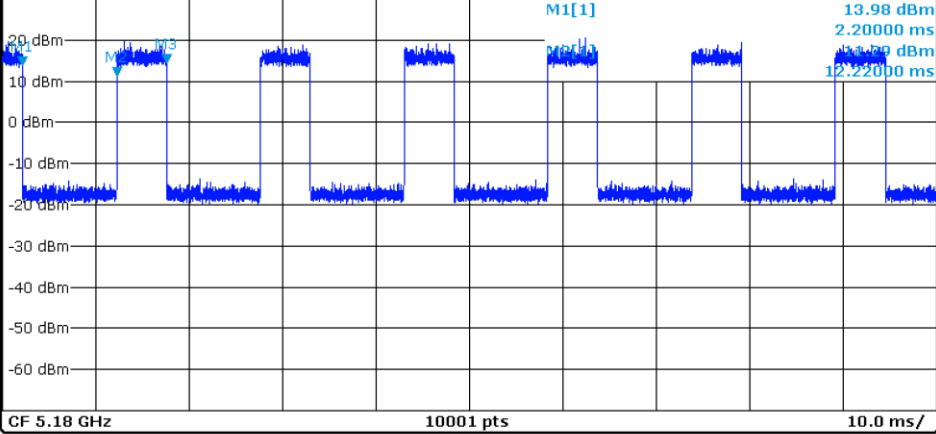
Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.72 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

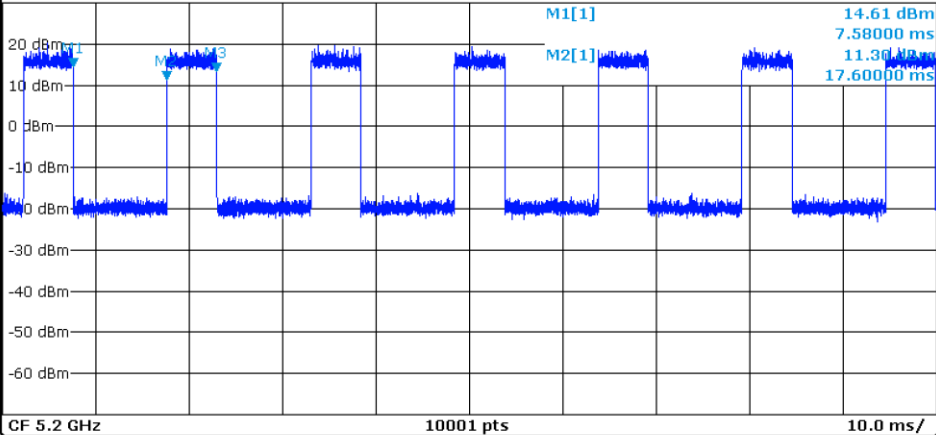
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.2 ms	13.98 dBm		
M2	1		12.22 ms	11.29 dBm		
M3	1		17.58 ms	14.52 dBm		

Duty Cycle NVNT a 5200MHz Ant1

Spectrum

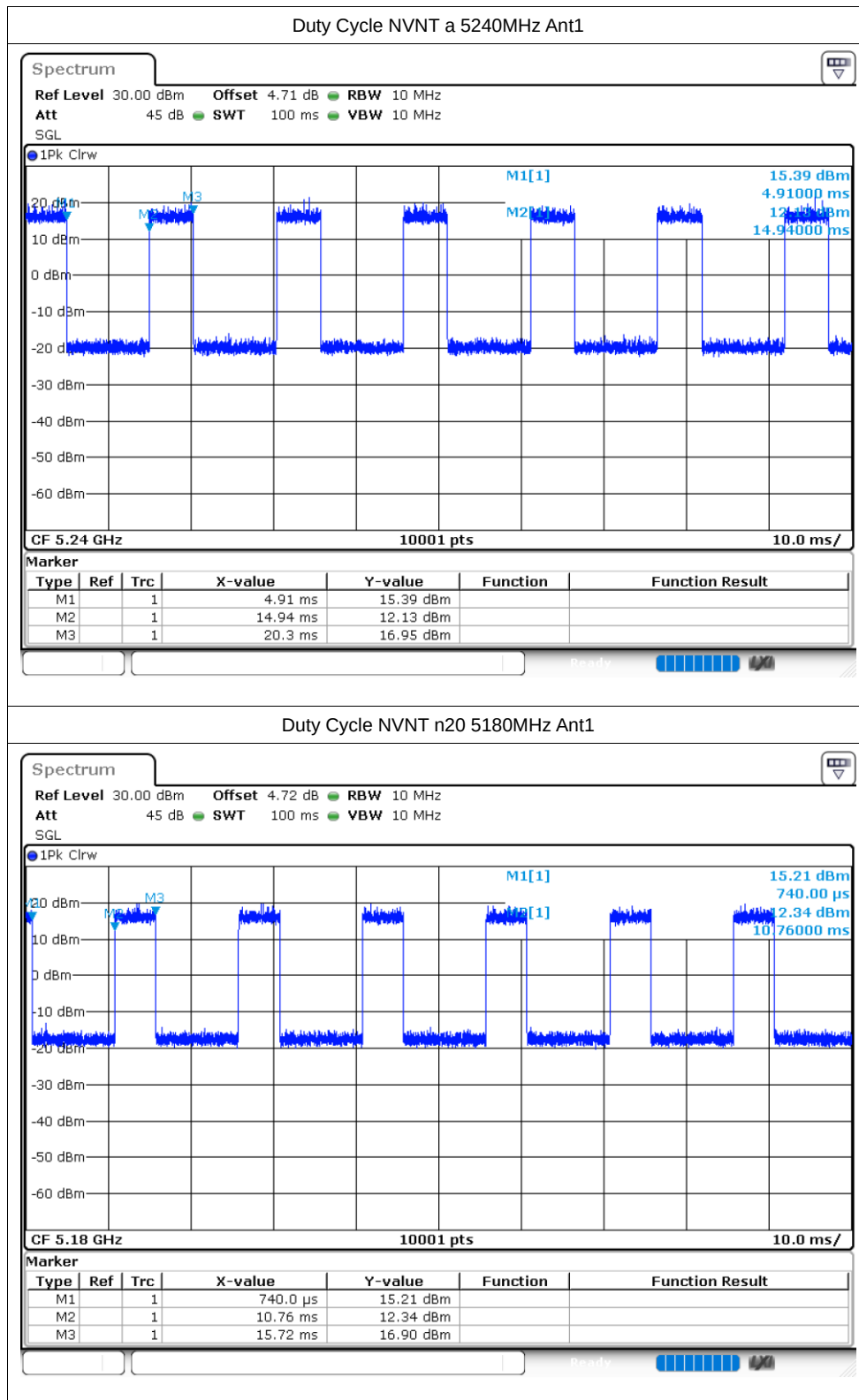
Ref Level 30.00 dBm Offset 4.73 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

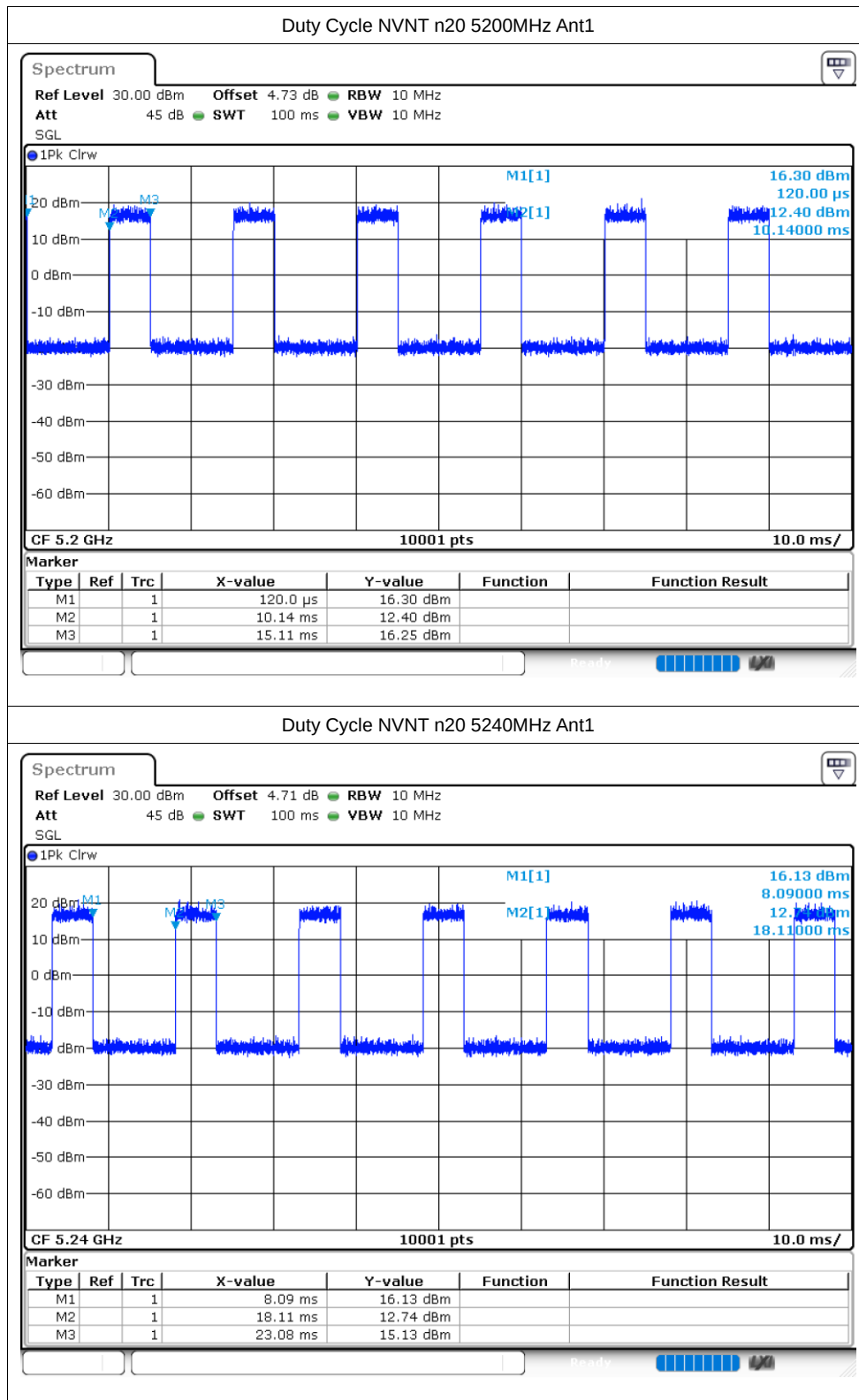
1Pk Clrw



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		7.58 ms	14.61 dBm		
M2	1		17.6 ms	11.30 dBm		
M3	1		22.97 ms	13.19 dBm		



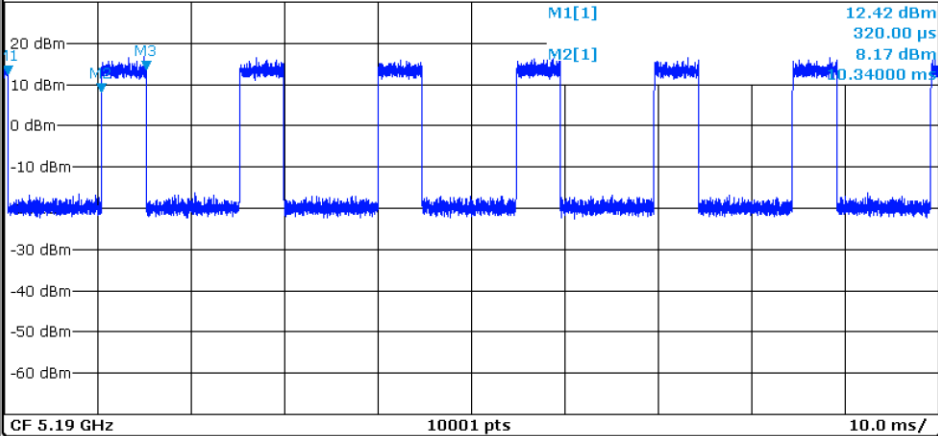


Duty Cycle NVNT n40 5190MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.73 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

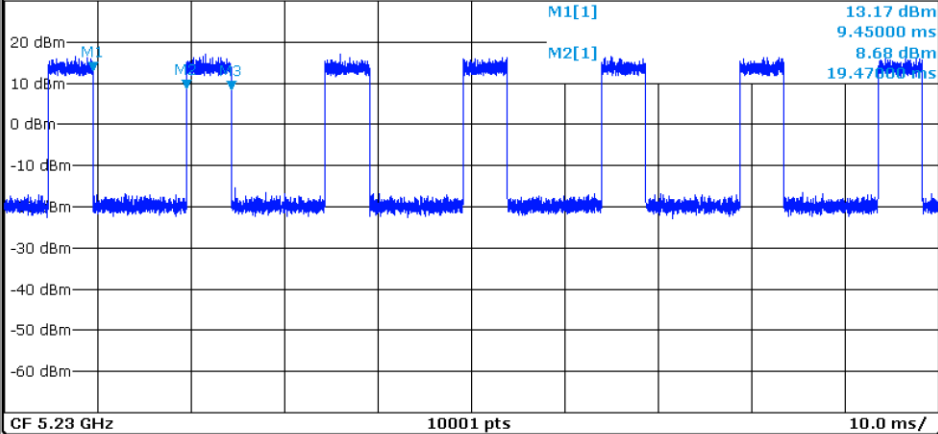
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	320.0 μ s	12.42 dBm		
M2	1	1	10.34 ms	8.17 dBm		
M3	1	1	15.13 ms	13.63 dBm		

Duty Cycle NVNT n40 5230MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.72 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

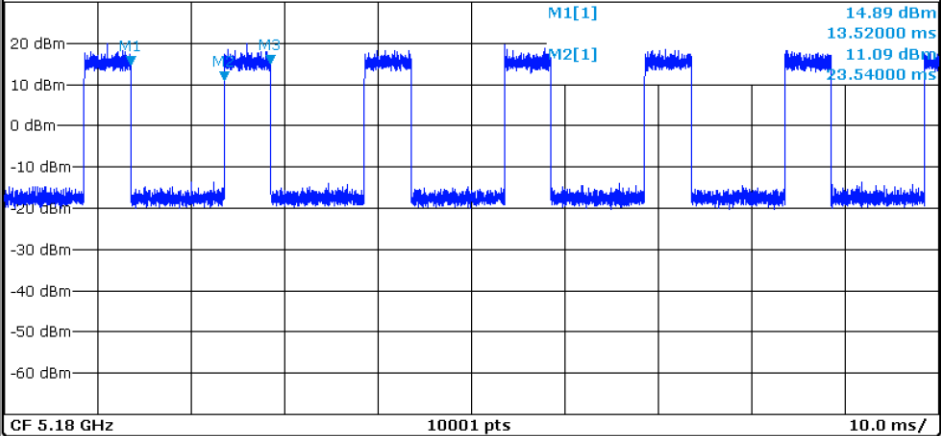
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	9.45 ms	13.17 dBm		
M2	1	1	19.47 ms	8.68 dBm		
M3	1	1	24.26 ms	8.44 dBm		

Duty Cycle NVNT ac20 5180MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.72 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

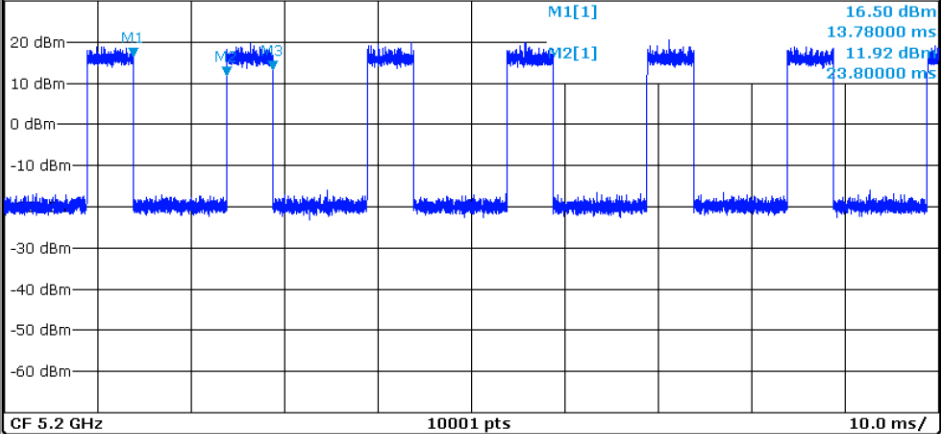
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	13.52 ms	14.89 dBm		
M2		1	23.54 ms	11.09 dBm		
M3		1	28.52 ms	15.06 dBm		

Duty Cycle NVNT ac20 5200MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.73 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

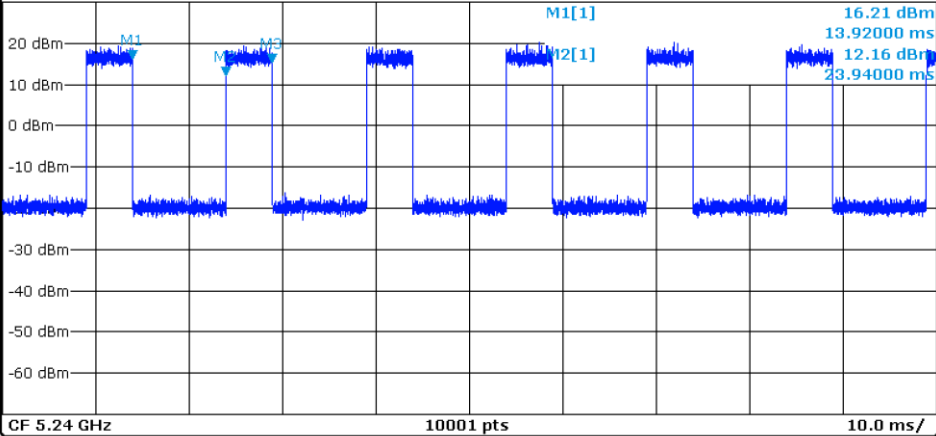
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	13.78 ms	16.50 dBm		
M2		1	23.8 ms	11.92 dBm		
M3		1	28.78 ms	13.40 dBm		

Duty Cycle NVNT ac20 5240MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.71 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw



Marker

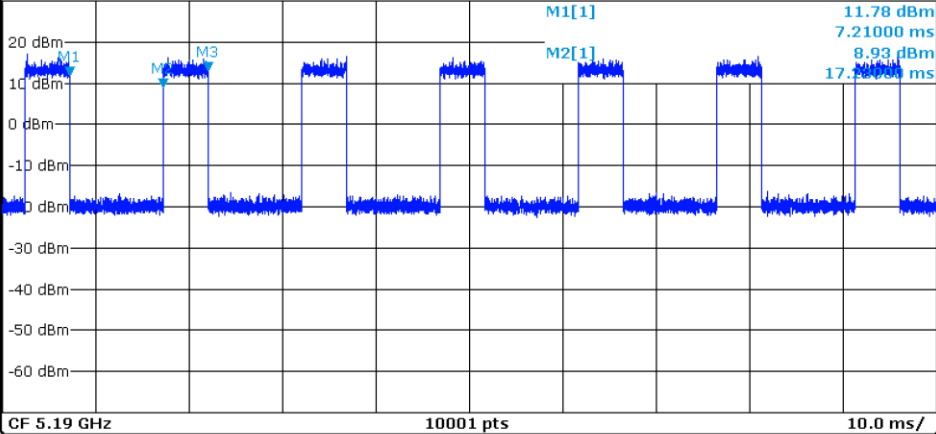
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	13.92 ms	16.21 dBm		
M2		1	23.94 ms	12.16 dBm		
M3		1	28.92 ms	15.43 dBm		

Duty Cycle NVNT ac40 5190MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.73 dB RBW 10 MHz
Att 45 dB SWT 100 ms VBW 10 MHz
SGL

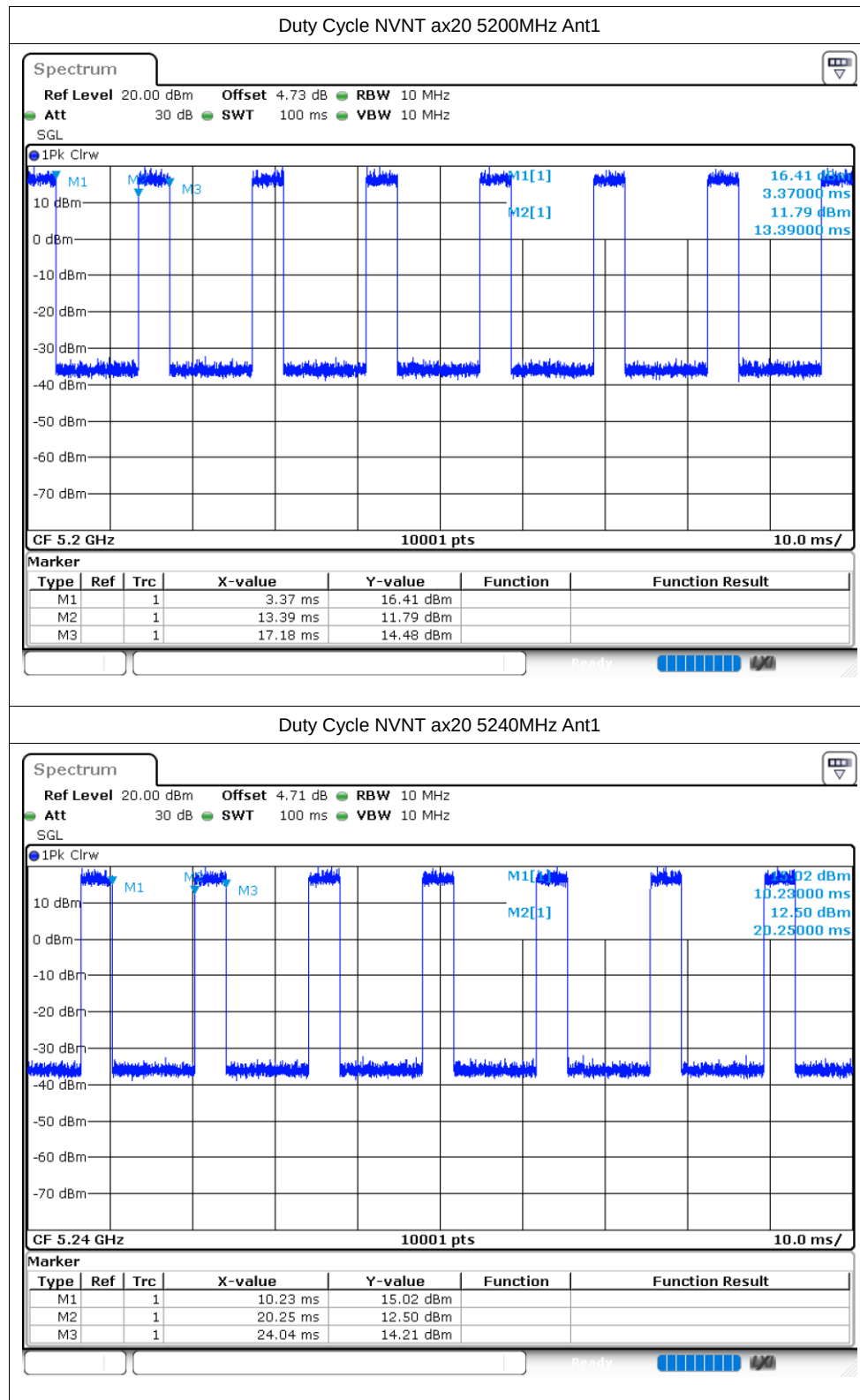
1Pk Clrw



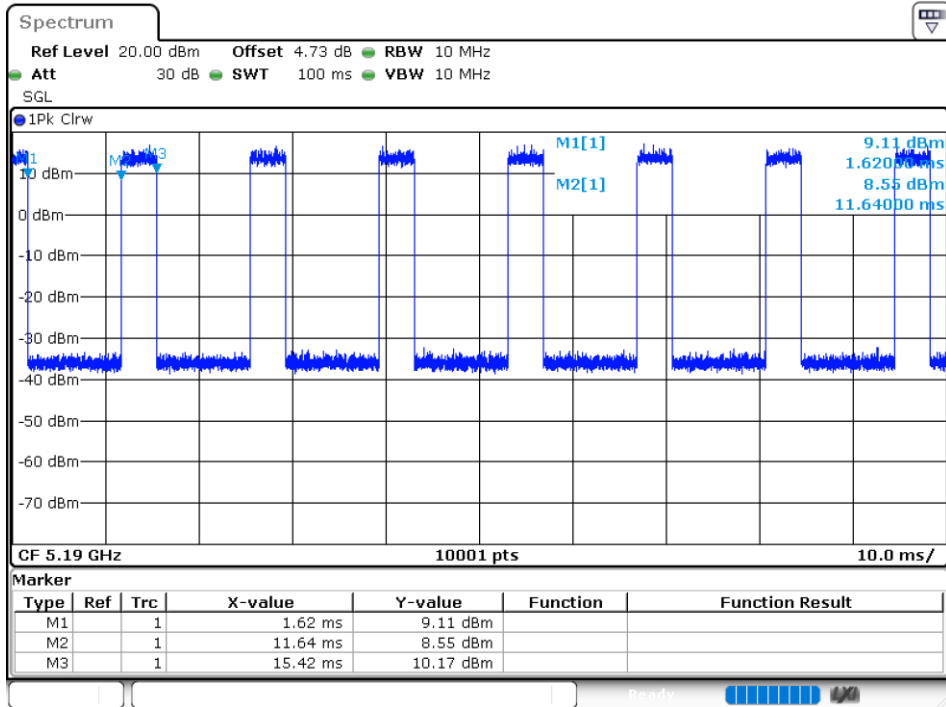
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	7.21 ms	11.78 dBm		
M2		1	17.23 ms	8.93 dBm		
M3		1	22.01 ms	13.18 dBm		

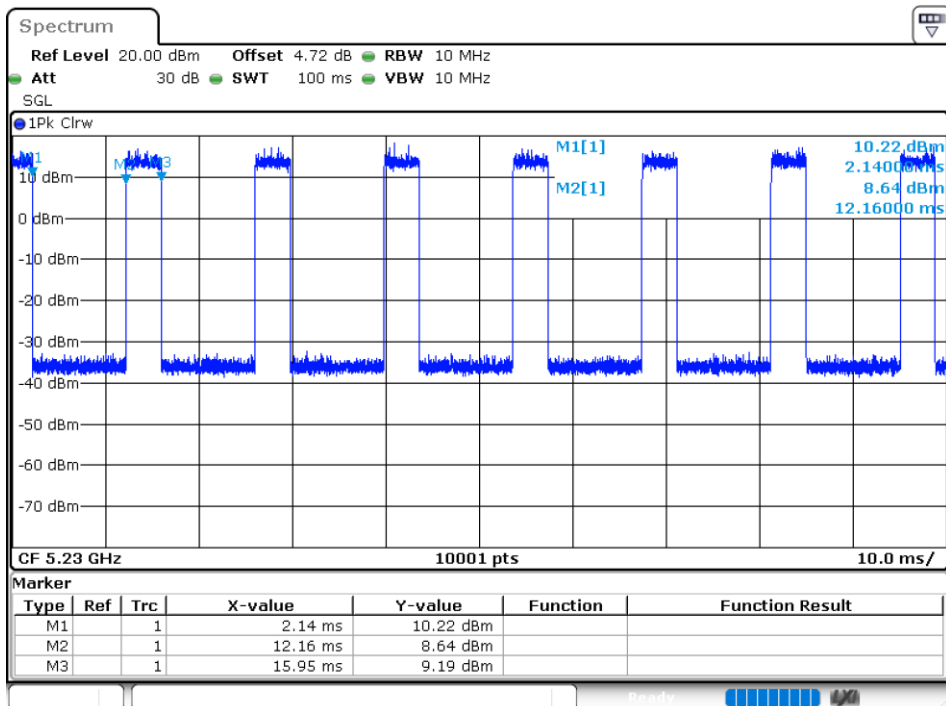




Duty Cycle NVNT ax40 5190MHz Ant1



Duty Cycle NVNT ax40 5230MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted AVG Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.12	24	Pass
NVNT	a	5200	Ant1	11.3	24	Pass
NVNT	a	5240	Ant1	11.38	24	Pass
NVNT	n20	5180	Ant1	11.81	24	Pass
NVNT	n20	5200	Ant1	11.88	24	Pass
NVNT	n20	5240	Ant1	12.13	24	Pass
NVNT	n40	5190	Ant1	11.61	24	Pass
NVNT	n40	5230	Ant1	11.82	24	Pass
NVNT	ac20	5180	Ant1	11.04	24	Pass
NVNT	ac20	5200	Ant1	11.58	24	Pass
NVNT	ac20	5240	Ant1	12.34	24	Pass
NVNT	ac40	5190	Ant1	12.01	24	Pass
NVNT	ac40	5230	Ant1	12.25	24	Pass
NVNT	ax20	5180	Ant1	11.78	24	Pass
NVNT	ax20	5200	Ant1	11.66	24	Pass
NVNT	ax20	5240	Ant1	11.9	24	Pass
NVNT	ax40	5190	Ant1	11.64	24	Pass
NVNT	ax40	5230	Ant1	11.75	24	Pass

Note:

1. The conducted average power contains duty cycle factor.
2. Belong to Client device.

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	22.977	Report only
NVNT	a	5200	Ant1	21.879	Report only
NVNT	a	5240	Ant1	23.565	Report only
NVNT	n20	5180	Ant1	23.526	Report only
NVNT	n20	5200	Ant1	21.966	Report only
NVNT	n20	5240	Ant1	22.107	Report only
NVNT	n40	5190	Ant1	46.53	Report only
NVNT	n40	5230	Ant1	46.266	Report only
NVNT	ac20	5180	Ant1	23.115	Report only
NVNT	ac20	5200	Ant1	23.439	Report only
NVNT	ac20	5240	Ant1	23.103	Report only
NVNT	ac40	5190	Ant1	47.94	Report only
NVNT	ac40	5230	Ant1	46.026	Report only
NVNT	ax20	5180	Ant1	20.379	Report only
NVNT	ax20	5200	Ant1	22.992	Report only
NVNT	ax20	5240	Ant1	21.786	Report only
NVNT	ax40	5190	Ant1	45.282	Report only
NVNT	ax40	5230	Ant1	43.656	Report only

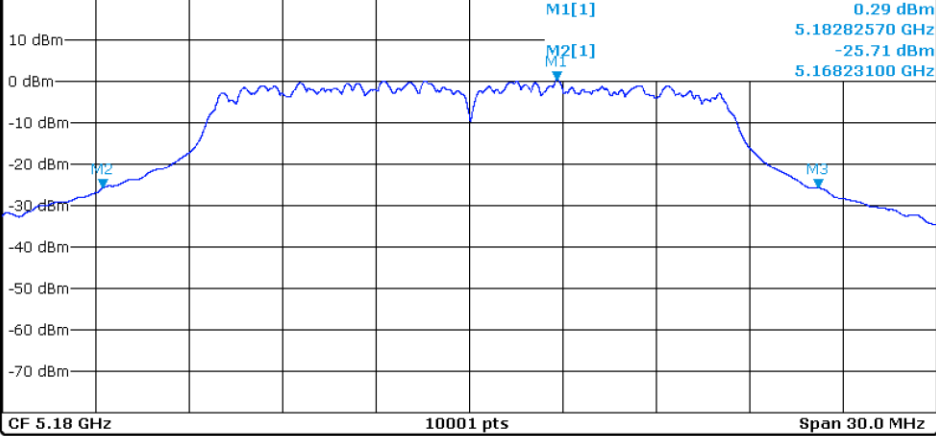
Test Graphs

-26dB Bandwidth NVNT a 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



Marker

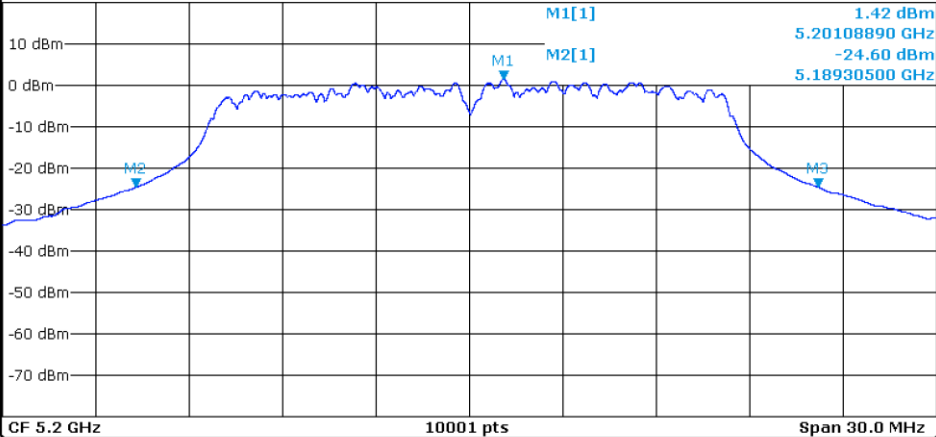
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1828257 GHz	0.29 dBm		
M2	1		5.168231 GHz	-25.71 dBm		
M3	1		5.191208 GHz	-25.72 dBm		

-26dB Bandwidth NVNT a 5200MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.73 dB RBW 300 kHz
Att 30 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

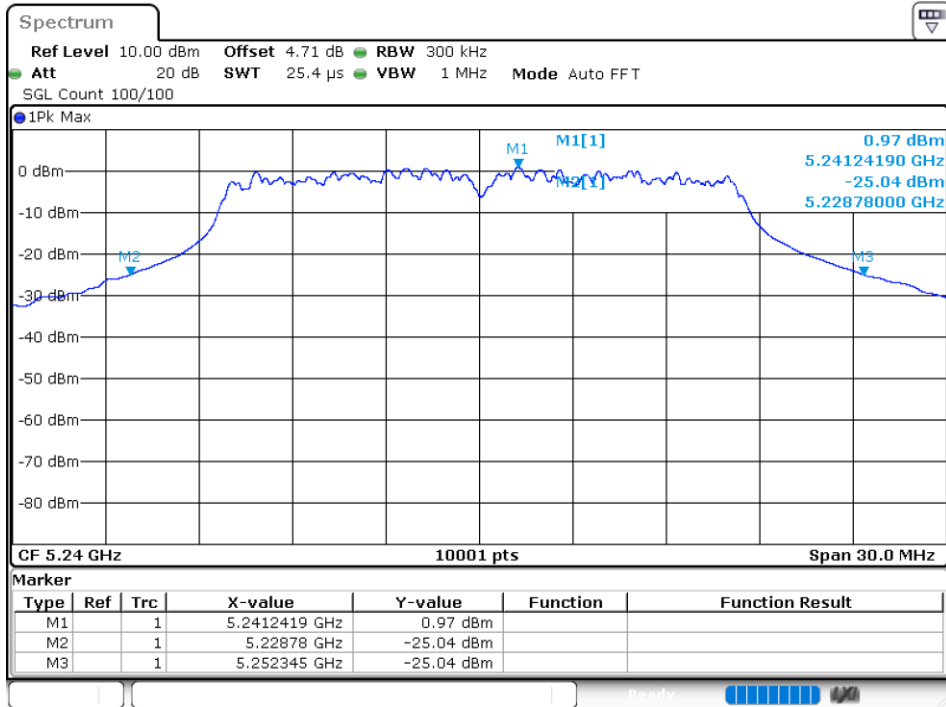
1Pk Max



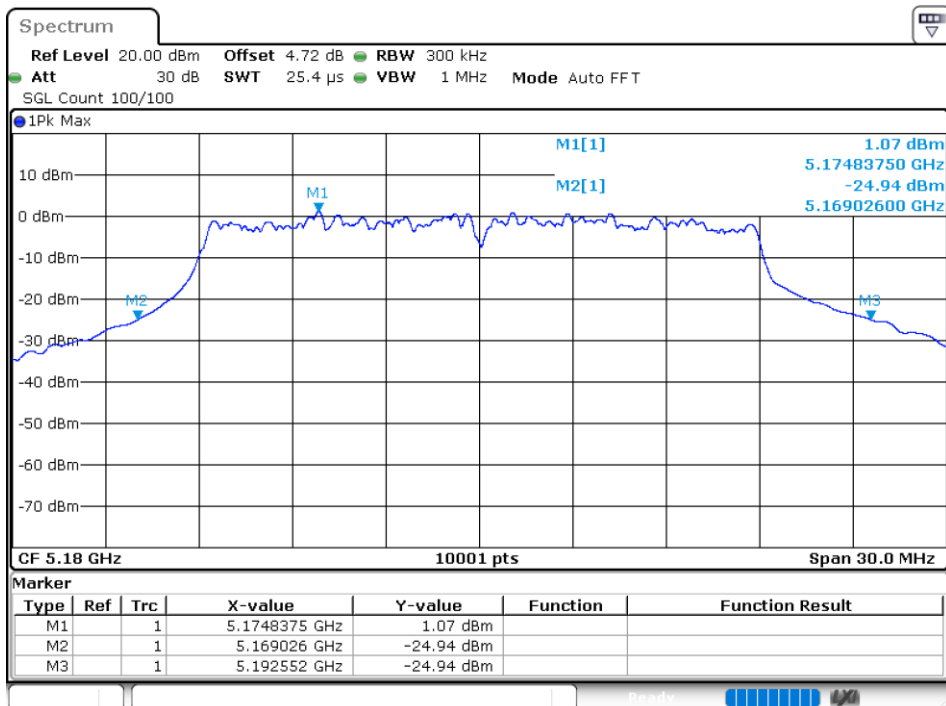
Marker

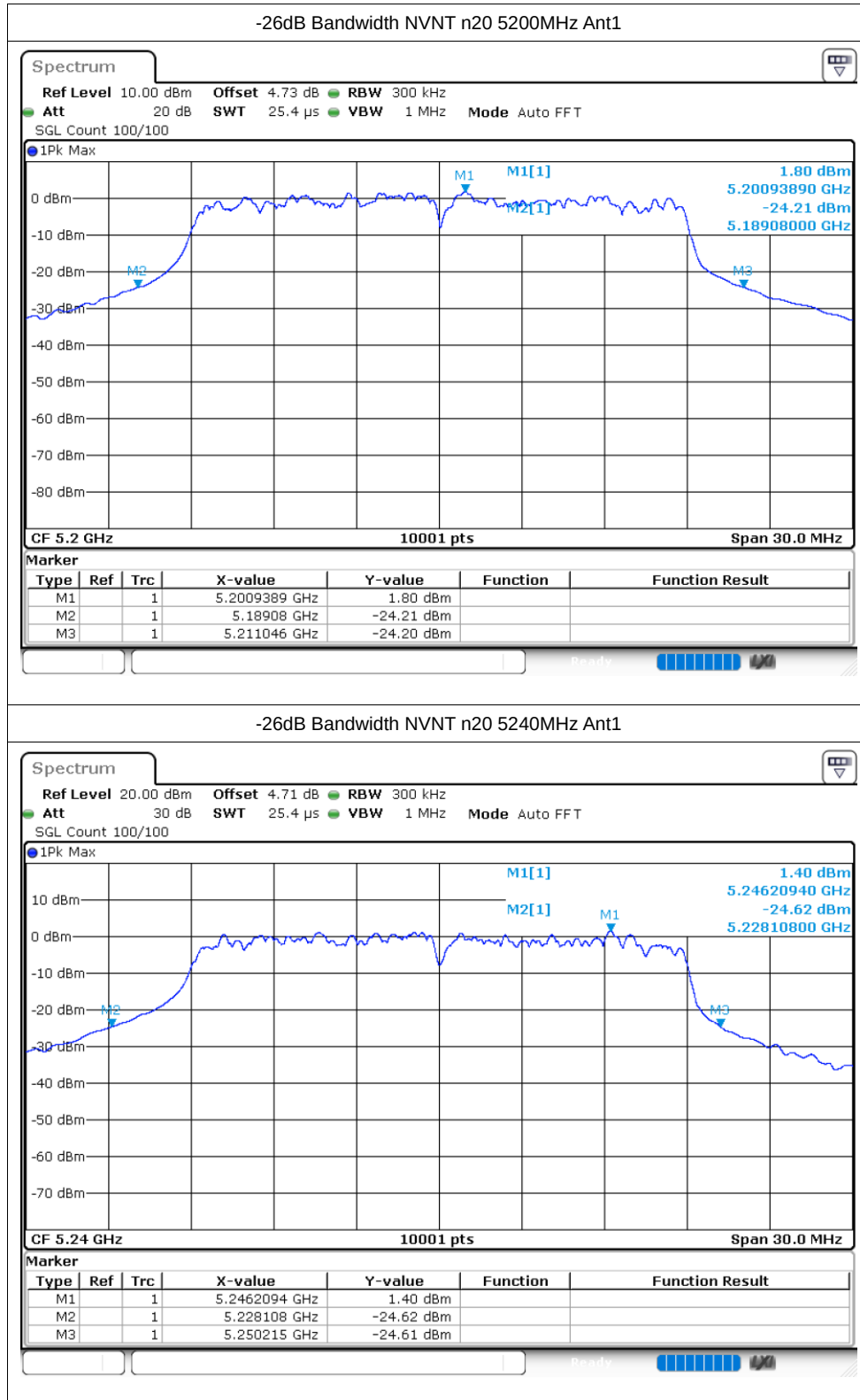
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.2010889 GHz	1.42 dBm		
M2	1		5.189305 GHz	-24.60 dBm		
M3	1		5.211184 GHz	-24.59 dBm		

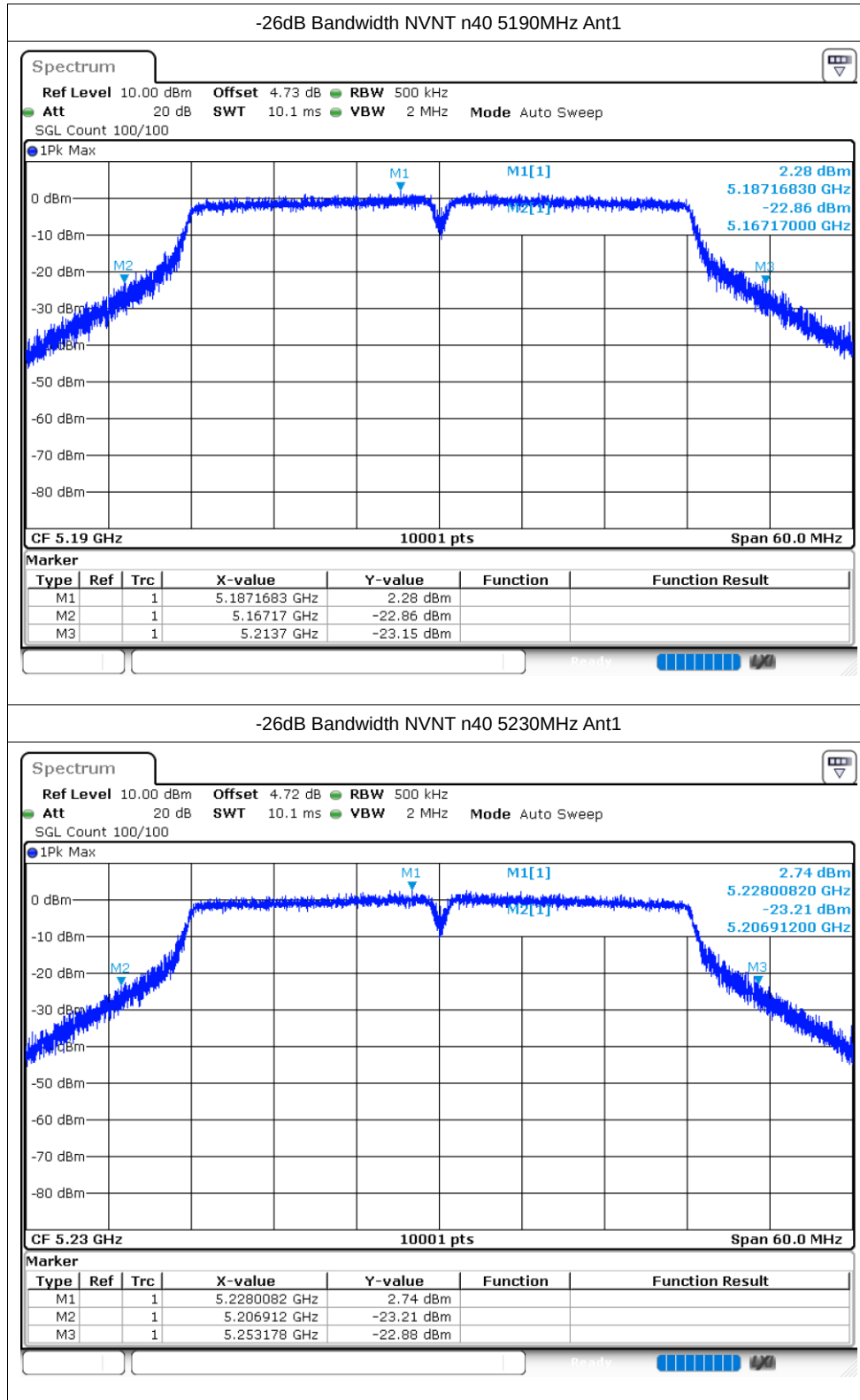
-26dB Bandwidth NVNT a 5240MHz Ant1

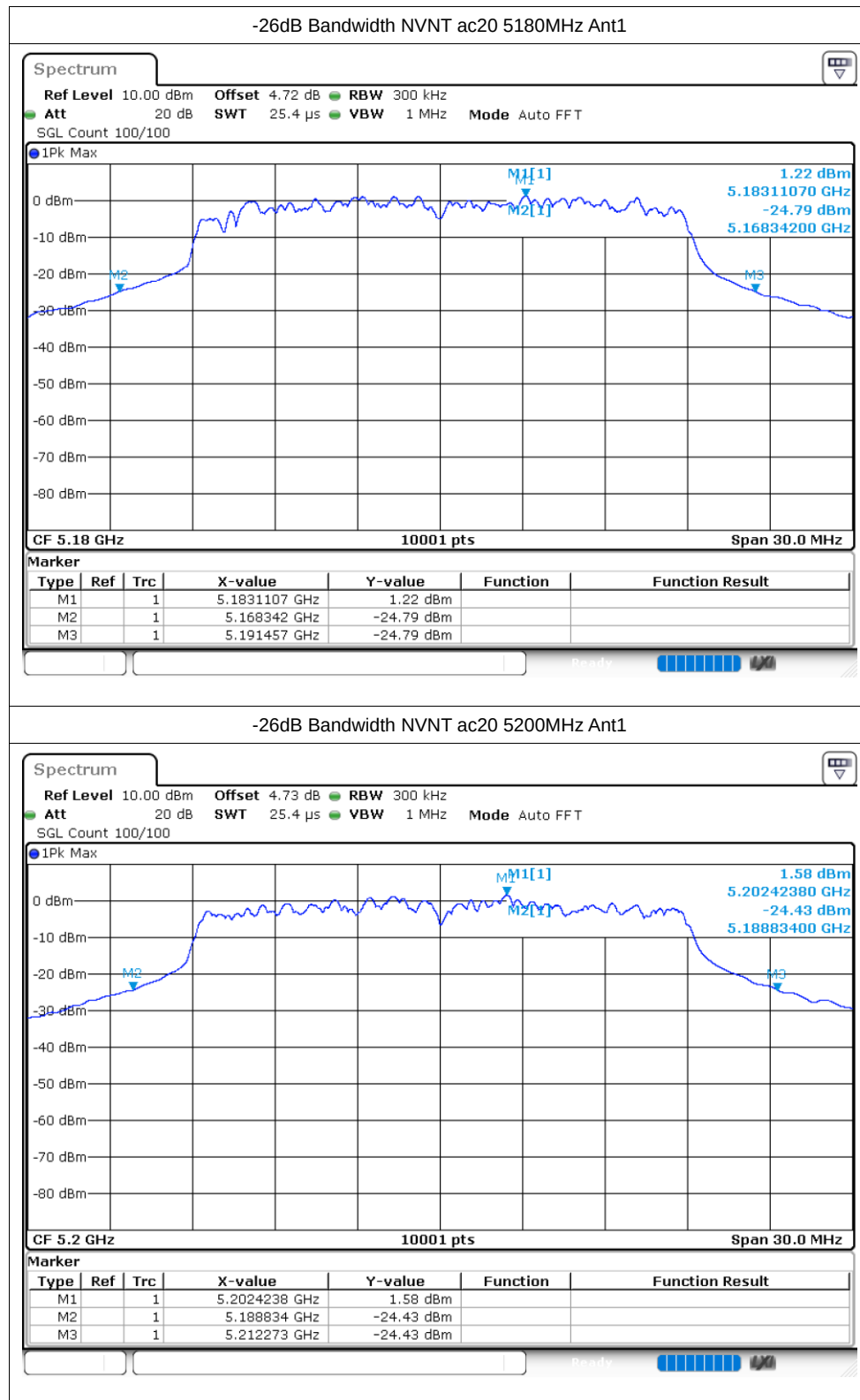


-26dB Bandwidth NVNT n20 5180MHz Ant1

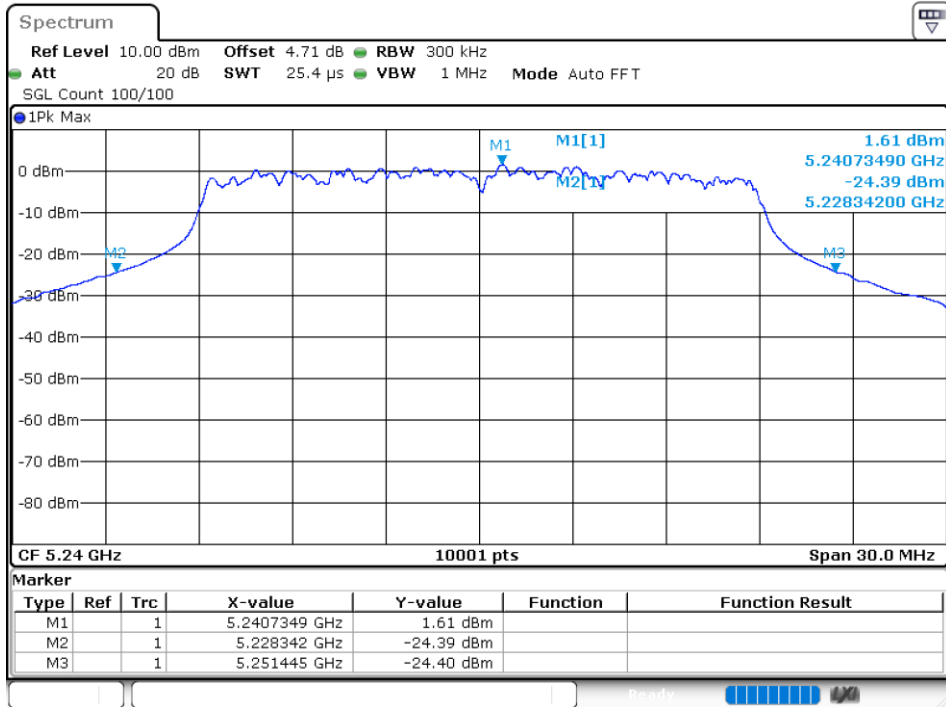




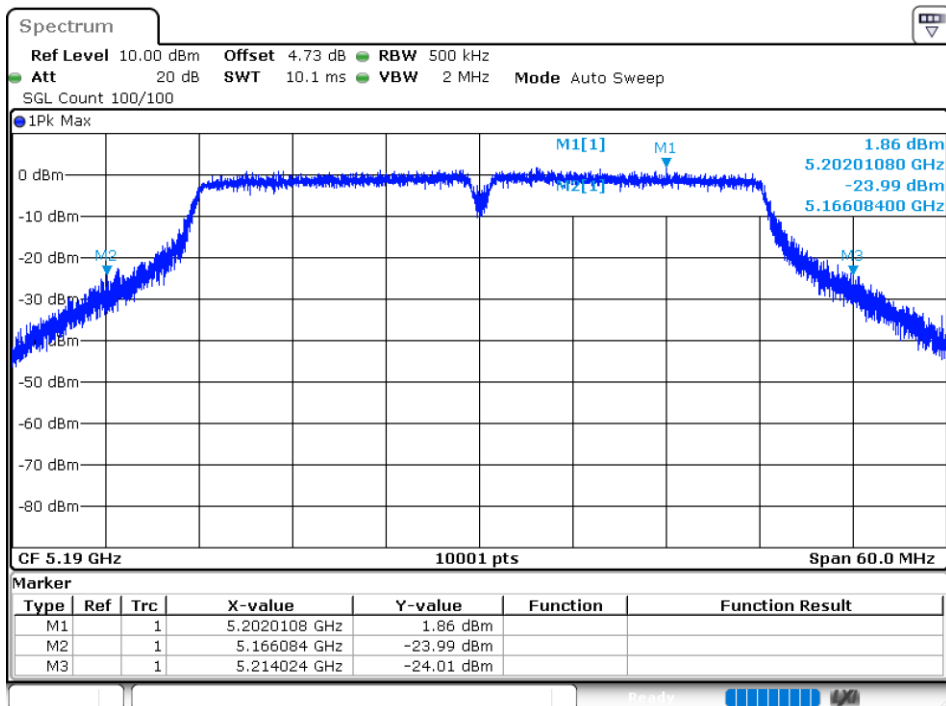




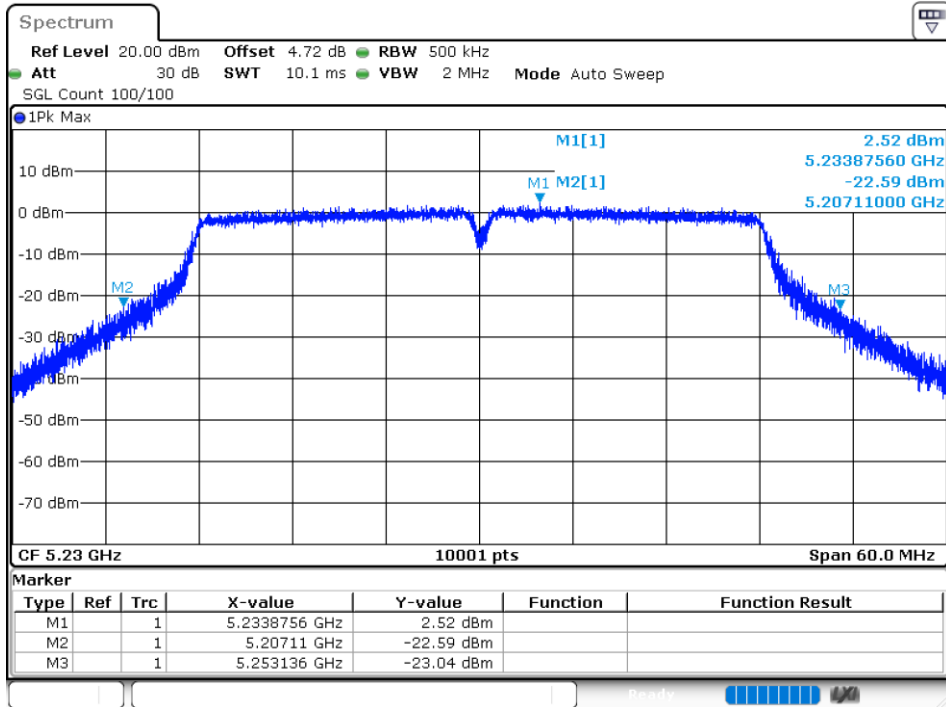
-26dB Bandwidth NVNT ac20 5240MHz Ant1



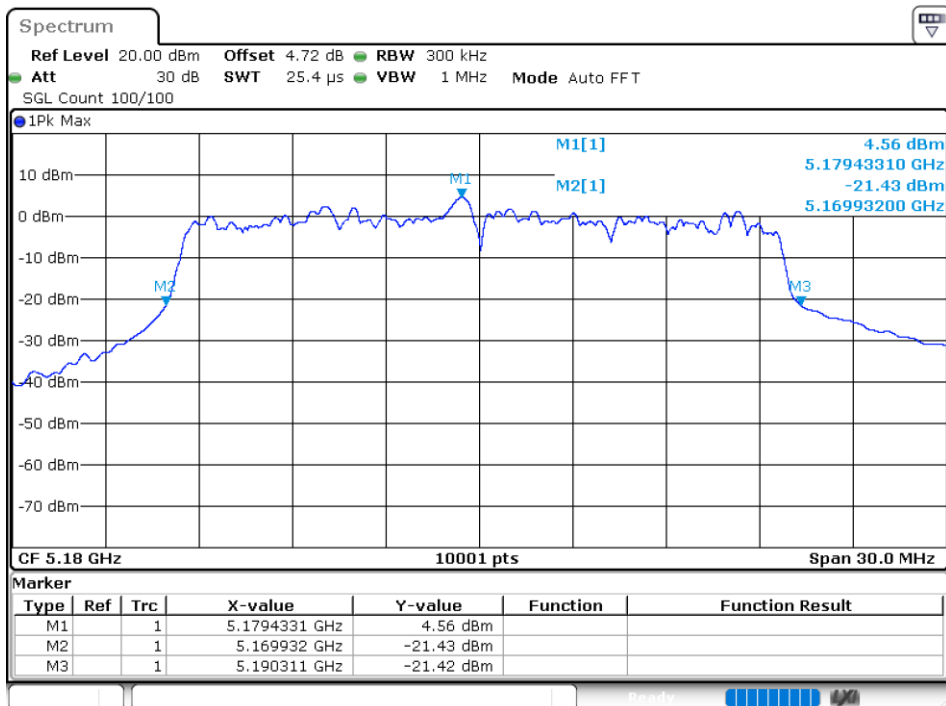
-26dB Bandwidth NVNT ac40 5190MHz Ant1



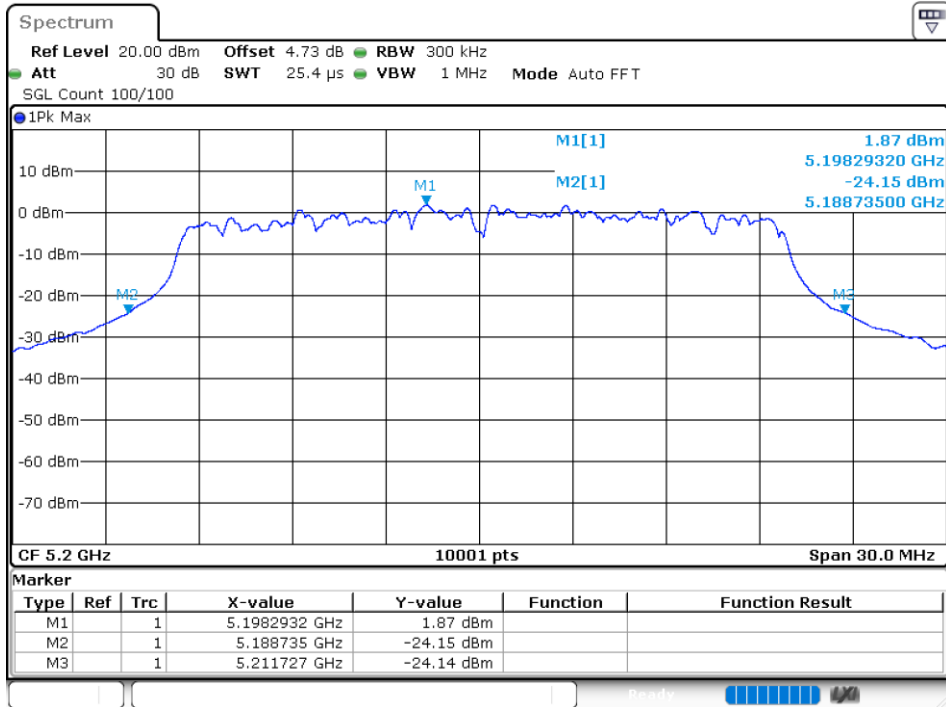
-26dB Bandwidth NVNT ac40 5230MHz Ant1



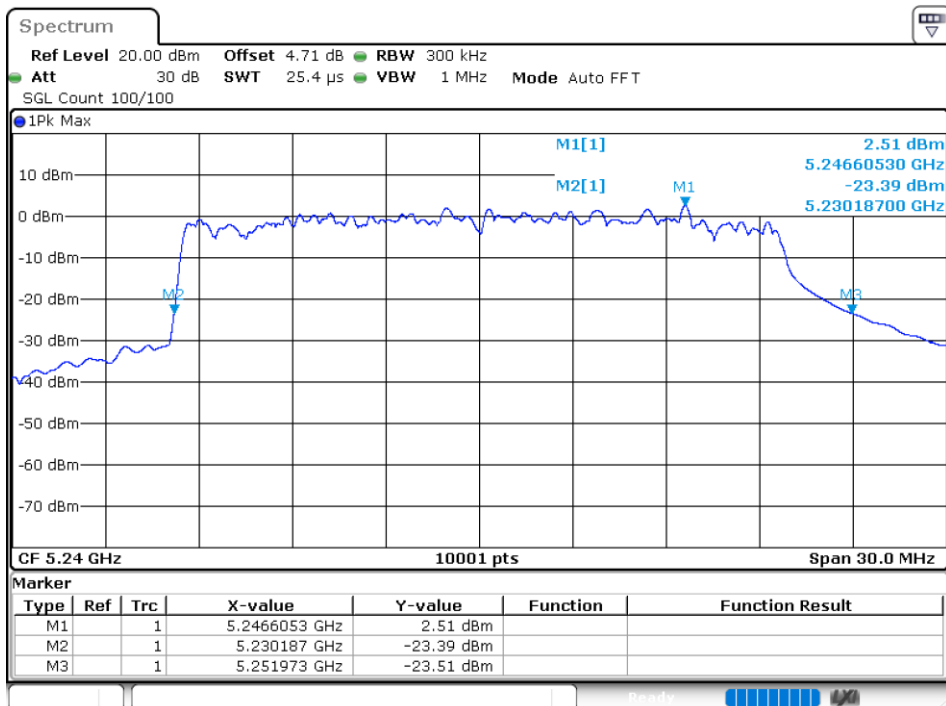
-26dB Bandwidth NVNT ax20 5180MHz Ant1

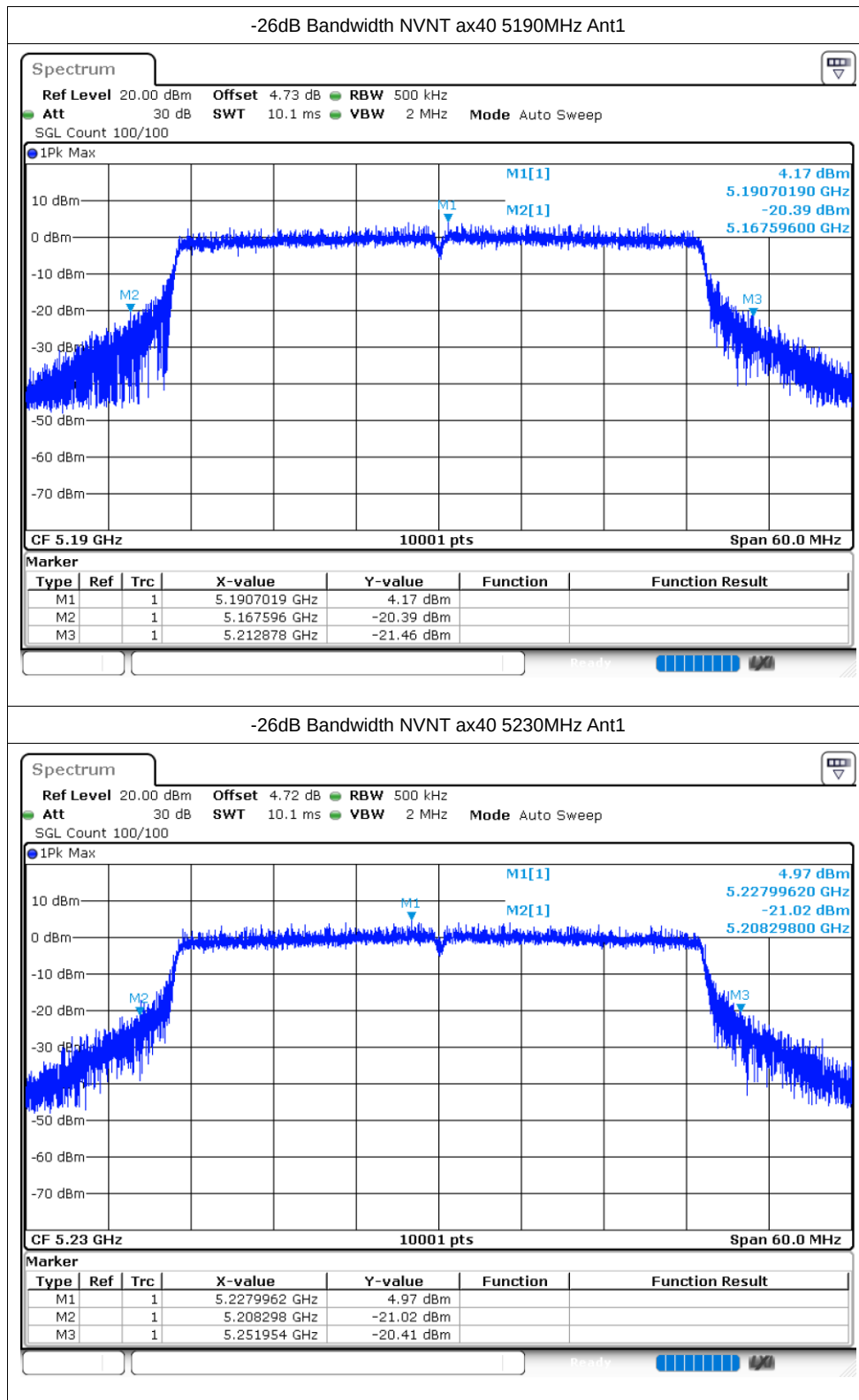


-26dB Bandwidth NVNT ax20 5200MHz Ant1



-26dB Bandwidth NVNT ax20 5240MHz Ant1



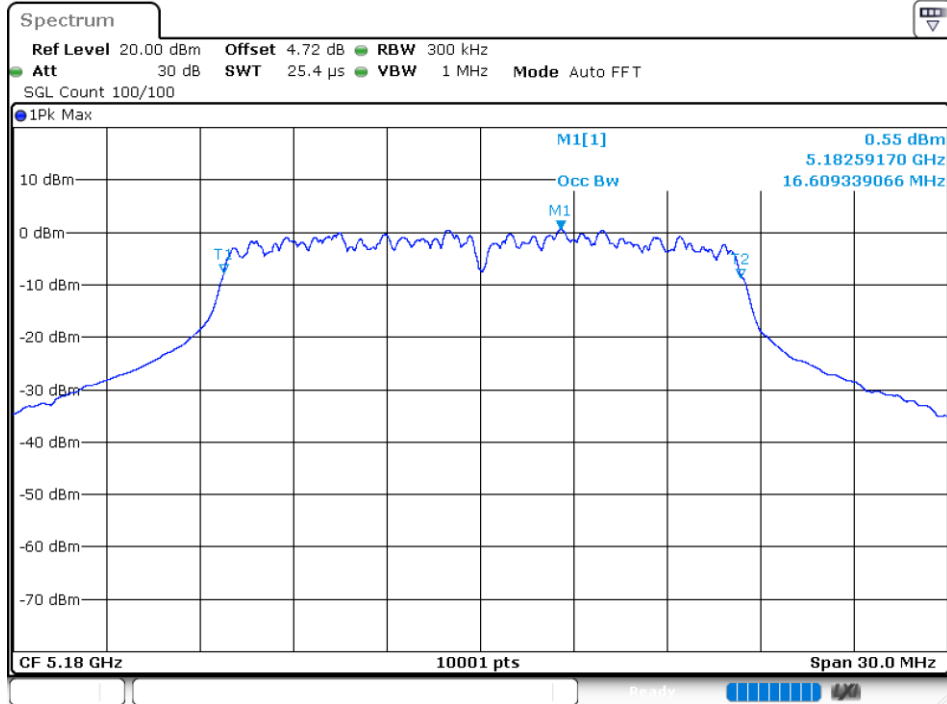


Occupied Channel Bandwidth

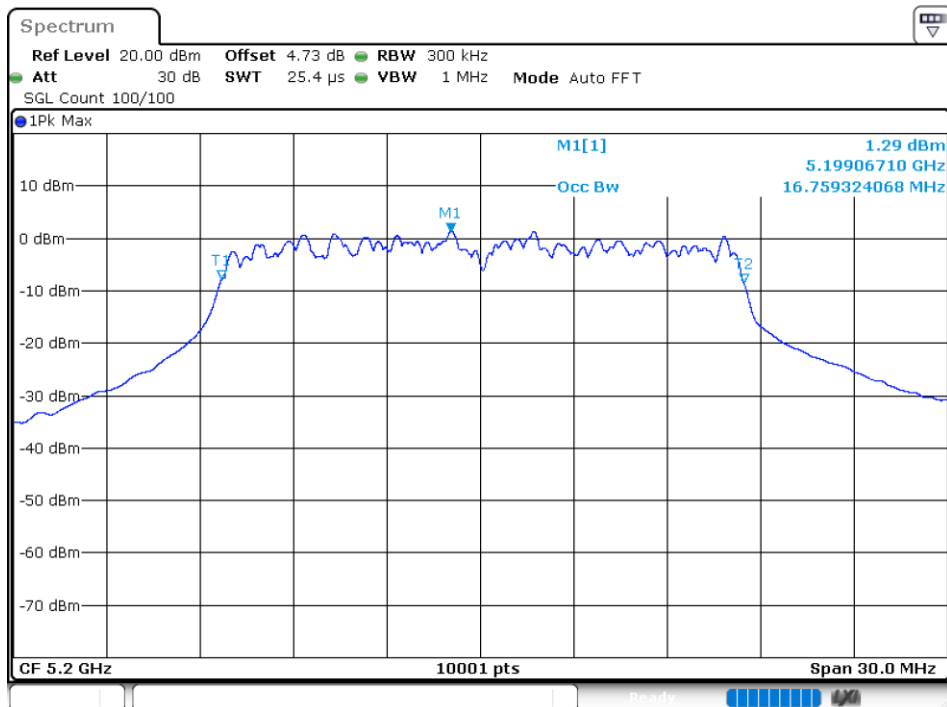
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.609
NVNT	a	5200	Ant1	16.759
NVNT	a	5240	Ant1	16.558
NVNT	n20	5180	Ant1	17.869
NVNT	n20	5200	Ant1	17.617
NVNT	n20	5240	Ant1	17.737
NVNT	n40	5190	Ant1	36.5
NVNT	n40	5230	Ant1	36.47
NVNT	ac20	5180	Ant1	17.938
NVNT	ac20	5200	Ant1	17.902
NVNT	ac20	5240	Ant1	17.92
NVNT	ac40	5190	Ant1	36.494
NVNT	ac40	5230	Ant1	36.512
NVNT	ax20	5180	Ant1	19.357
NVNT	ax20	5200	Ant1	19.147
NVNT	ax20	5240	Ant1	18.943
NVNT	ax40	5190	Ant1	37.868
NVNT	ax40	5230	Ant1	37.856

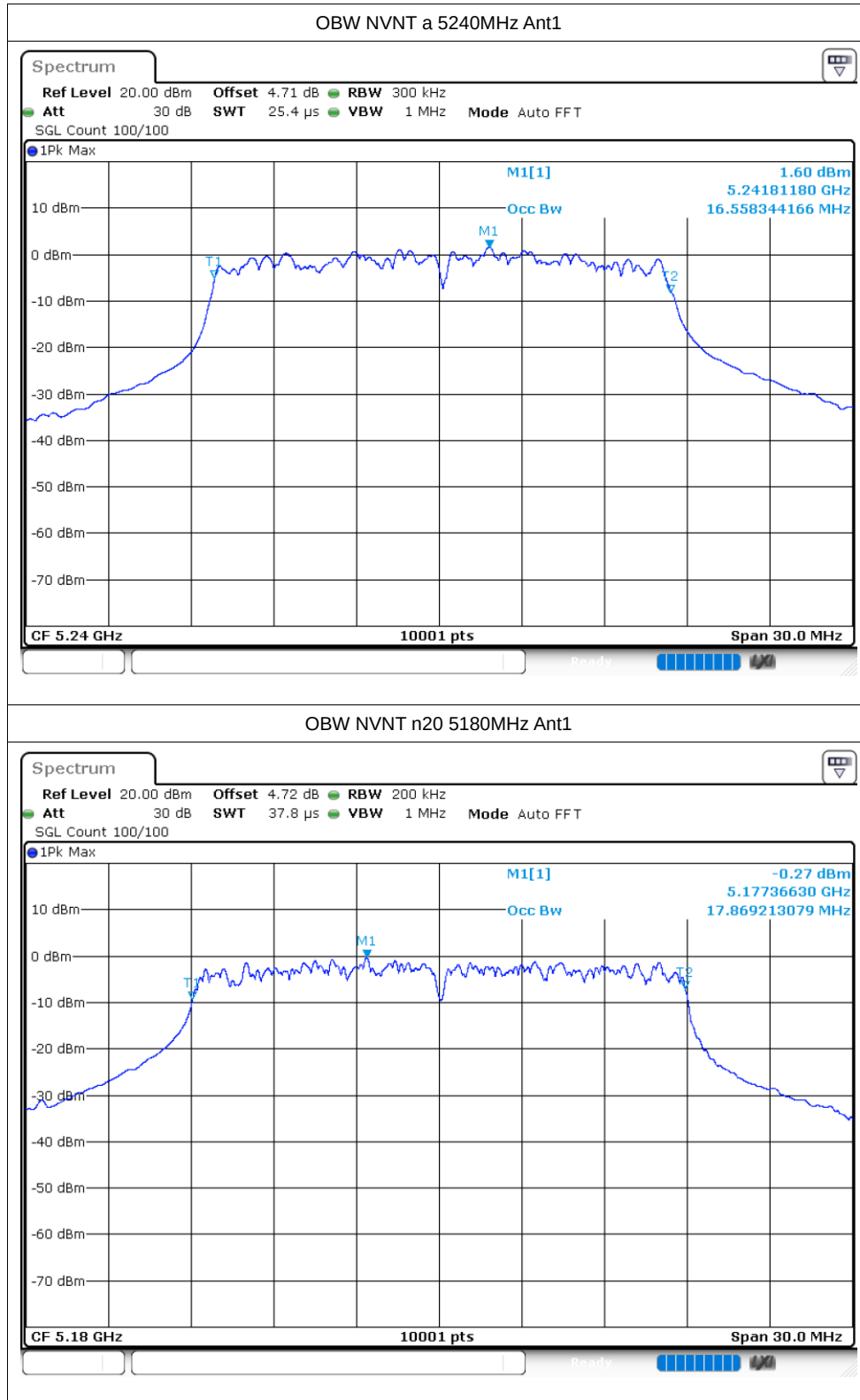
Test Graphs

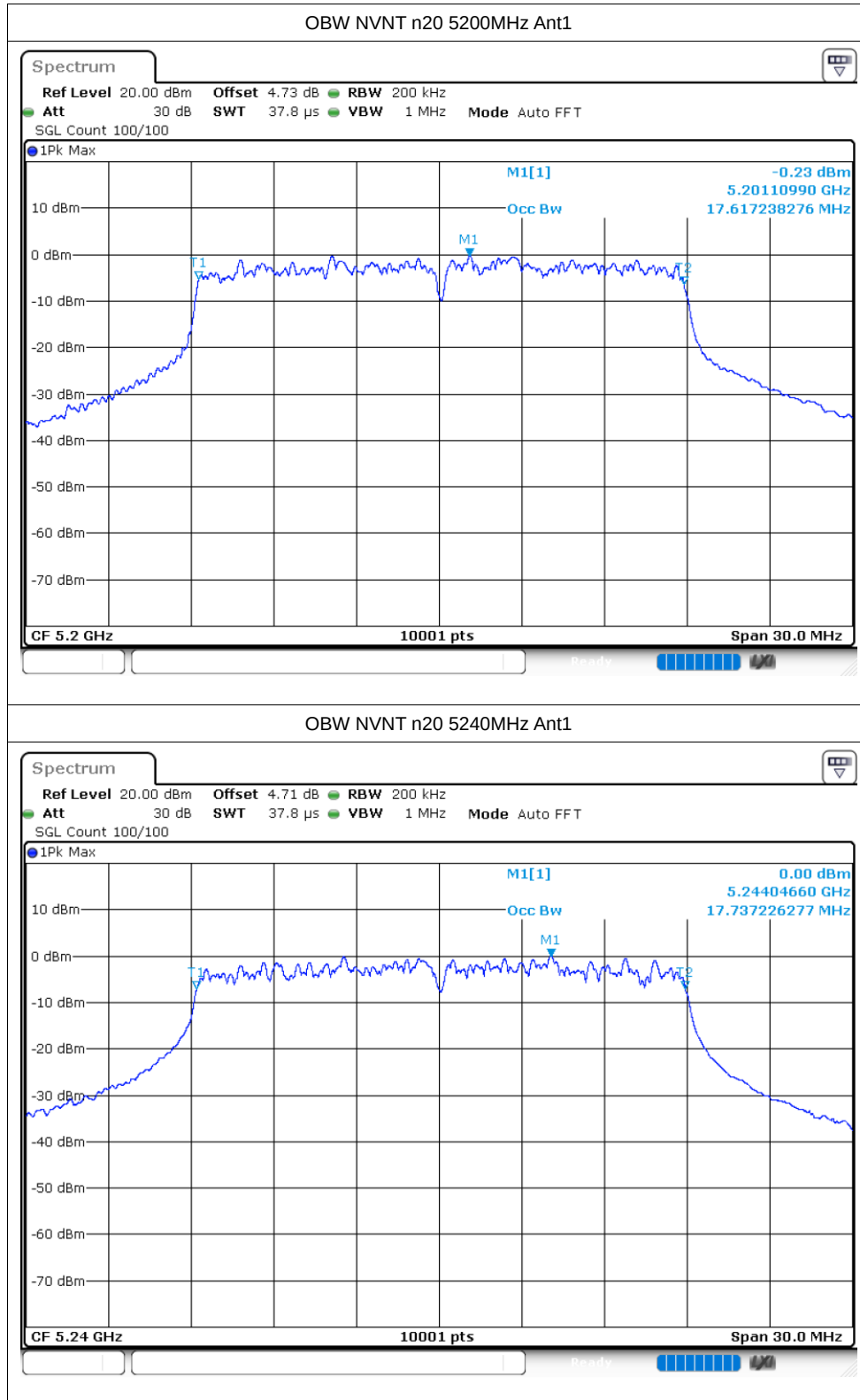
OBW NVNT a 5180MHz Ant1

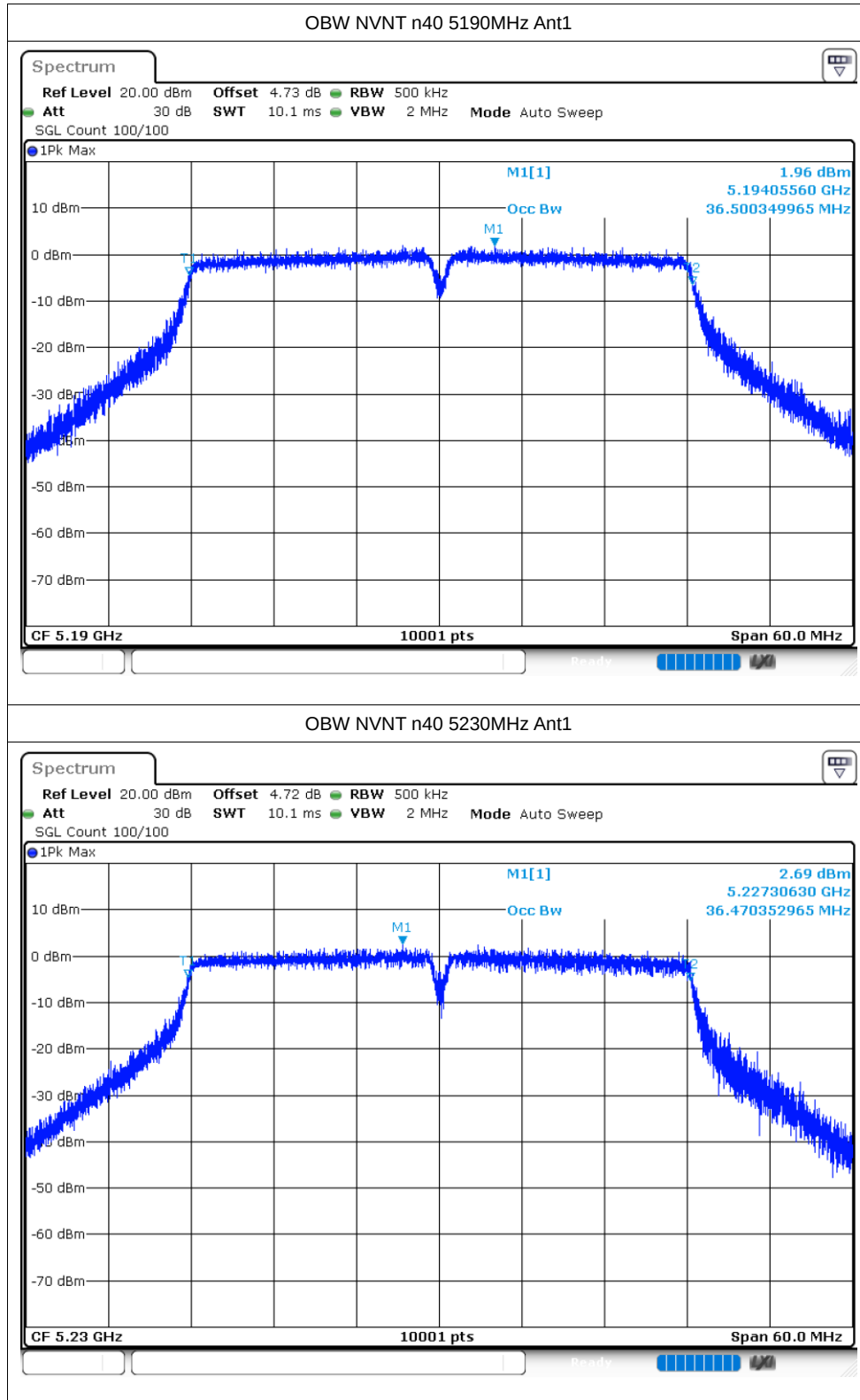


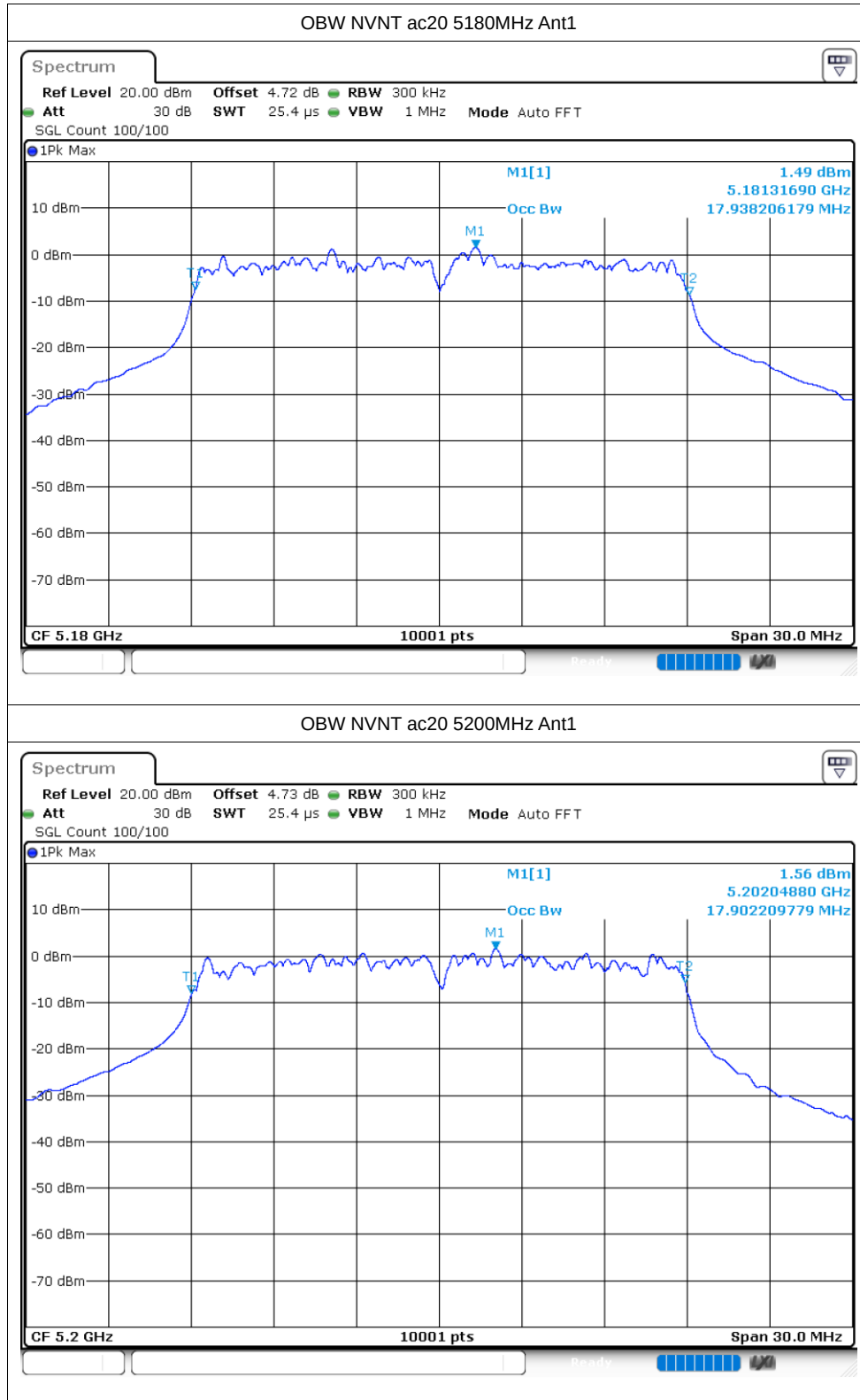
OBW NVNT a 5200MHz Ant1

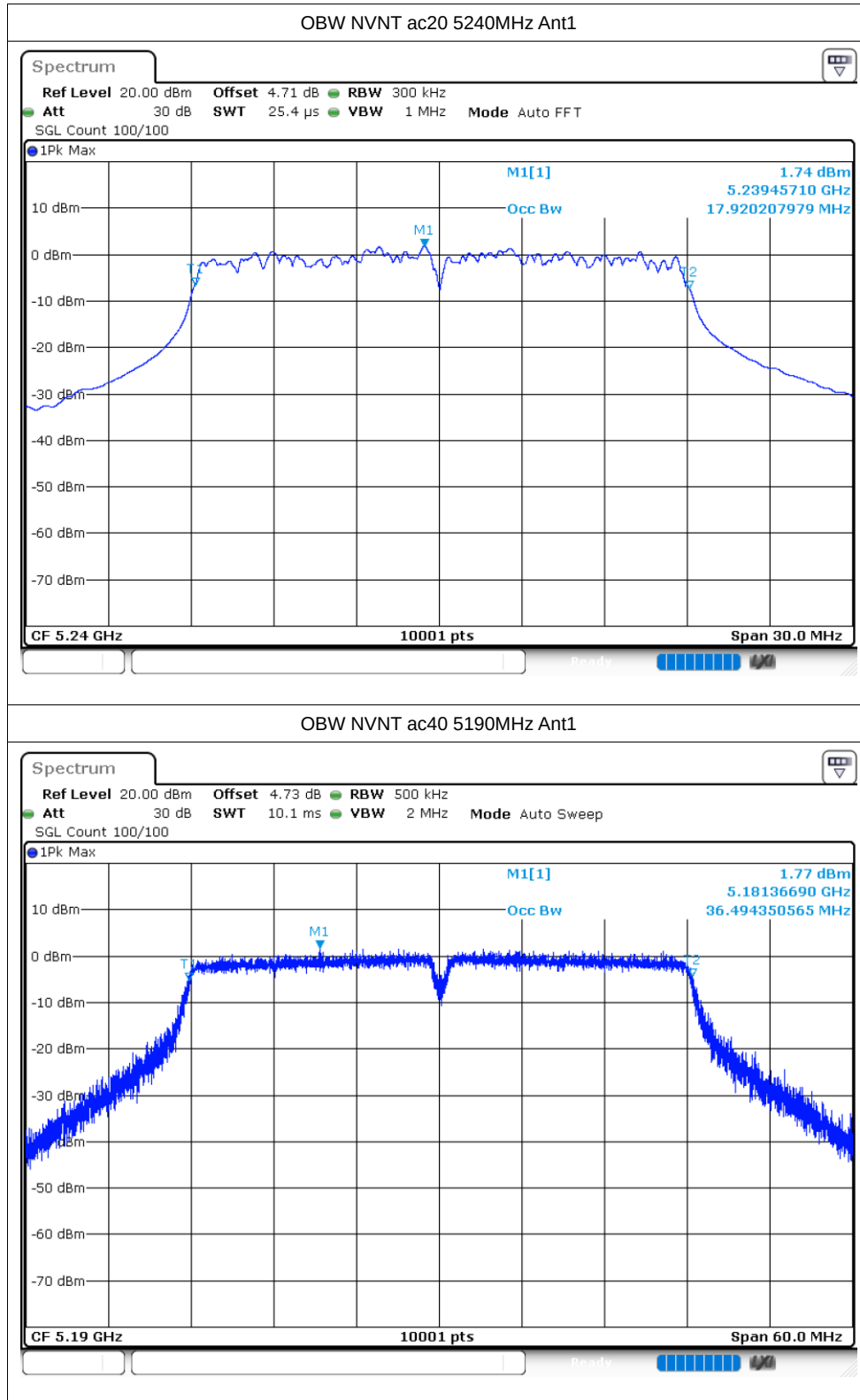


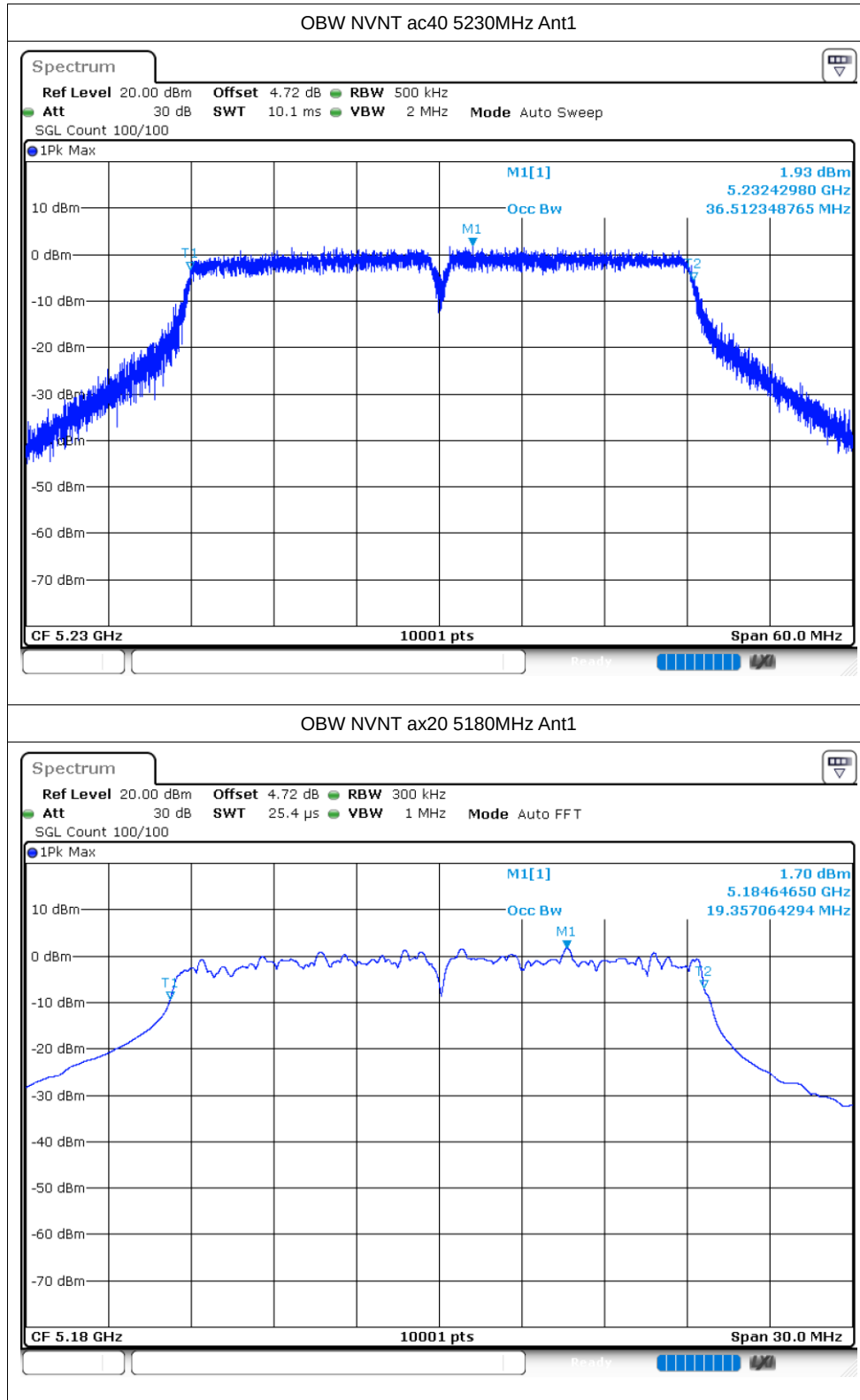


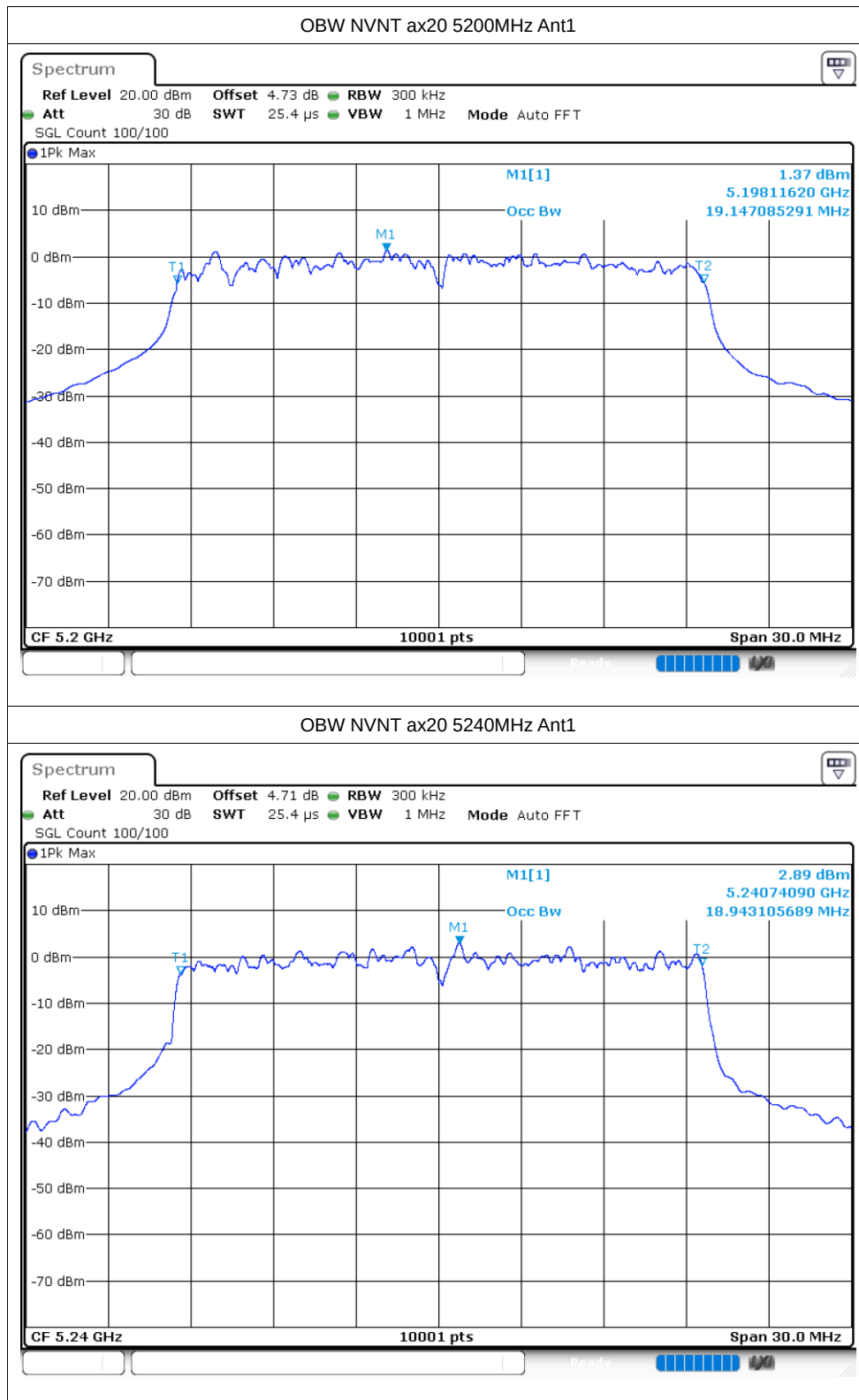


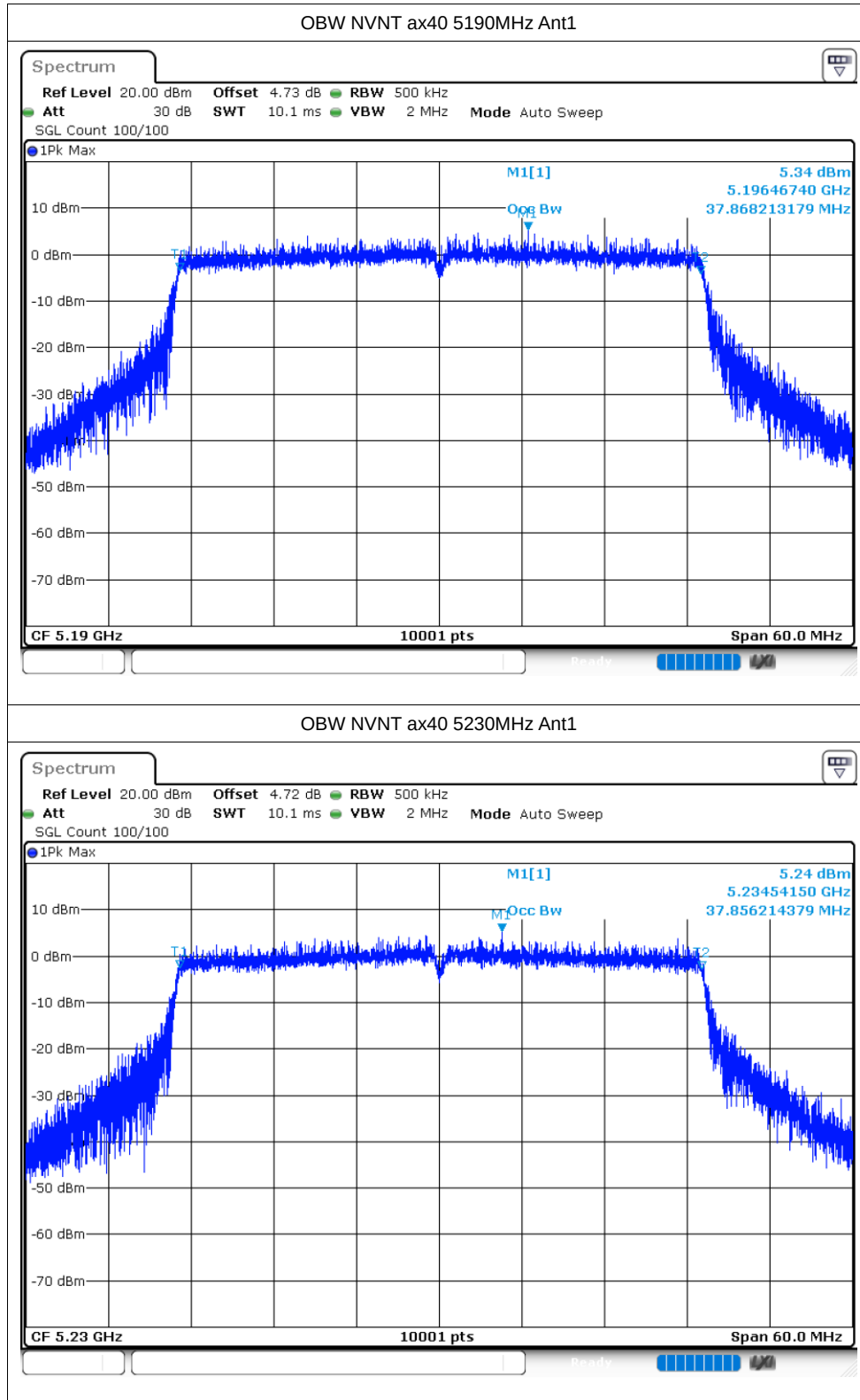










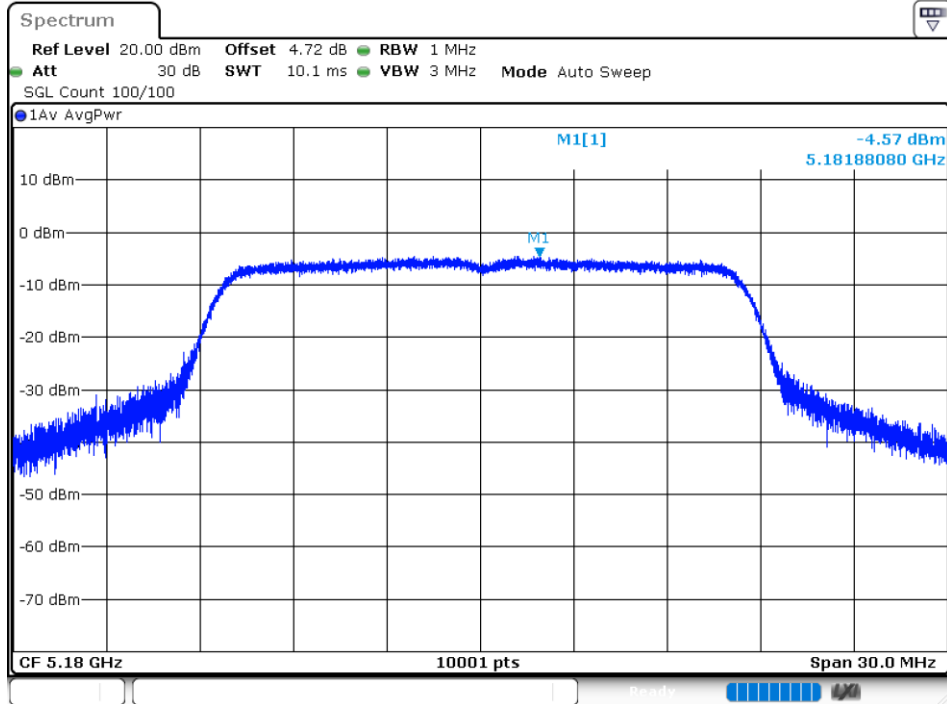


Maximum Power Spectral Density Level

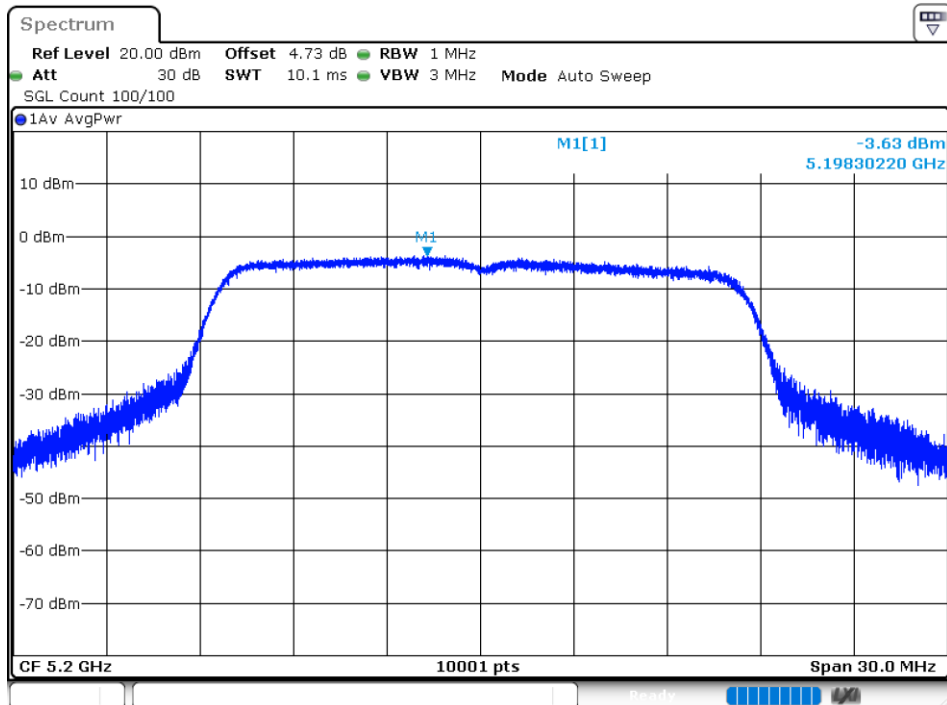
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-4.57	4.63	0.06	11	Pass
NVNT	a	5200	Ant1	-3.63	4.25	0.62	11	Pass
NVNT	a	5240	Ant1	-4.33	4.3	-0.03	11	Pass
NVNT	n20	5180	Ant1	-4.84	5.14	0.3	11	Pass
NVNT	n20	5200	Ant1	-4.54	5.23	0.69	11	Pass
NVNT	n20	5240	Ant1	-4.62	4.58	-0.04	11	Pass
NVNT	n40	5190	Ant1	-8.46	5.24	-3.22	11	Pass
NVNT	n40	5230	Ant1	-7.94	4.74	-3.2	11	Pass
NVNT	ac20	5180	Ant1	-4.26	5.03	0.77	11	Pass
NVNT	ac20	5200	Ant1	-4.05	5.07	1.02	11	Pass
NVNT	ac20	5240	Ant1	-3.96	5.09	1.13	11	Pass
NVNT	ac40	5190	Ant1	-7.33	4.74	-2.59	11	Pass
NVNT	ac40	5230	Ant1	-6.63	4.91	-1.72	11	Pass
NVNT	ax20	5180	Ant1	-4.55	5.5	0.95	11	Pass
NVNT	ax20	5200	Ant1	-5.24	5.24	0	11	Pass
NVNT	ax20	5240	Ant1	-4.46	5.75	1.29	11	Pass
NVNT	ax40	5190	Ant1	-8.18	5.5	-2.68	11	Pass
NVNT	ax40	5230	Ant1	-7.4	5.42	-1.98	11	Pass

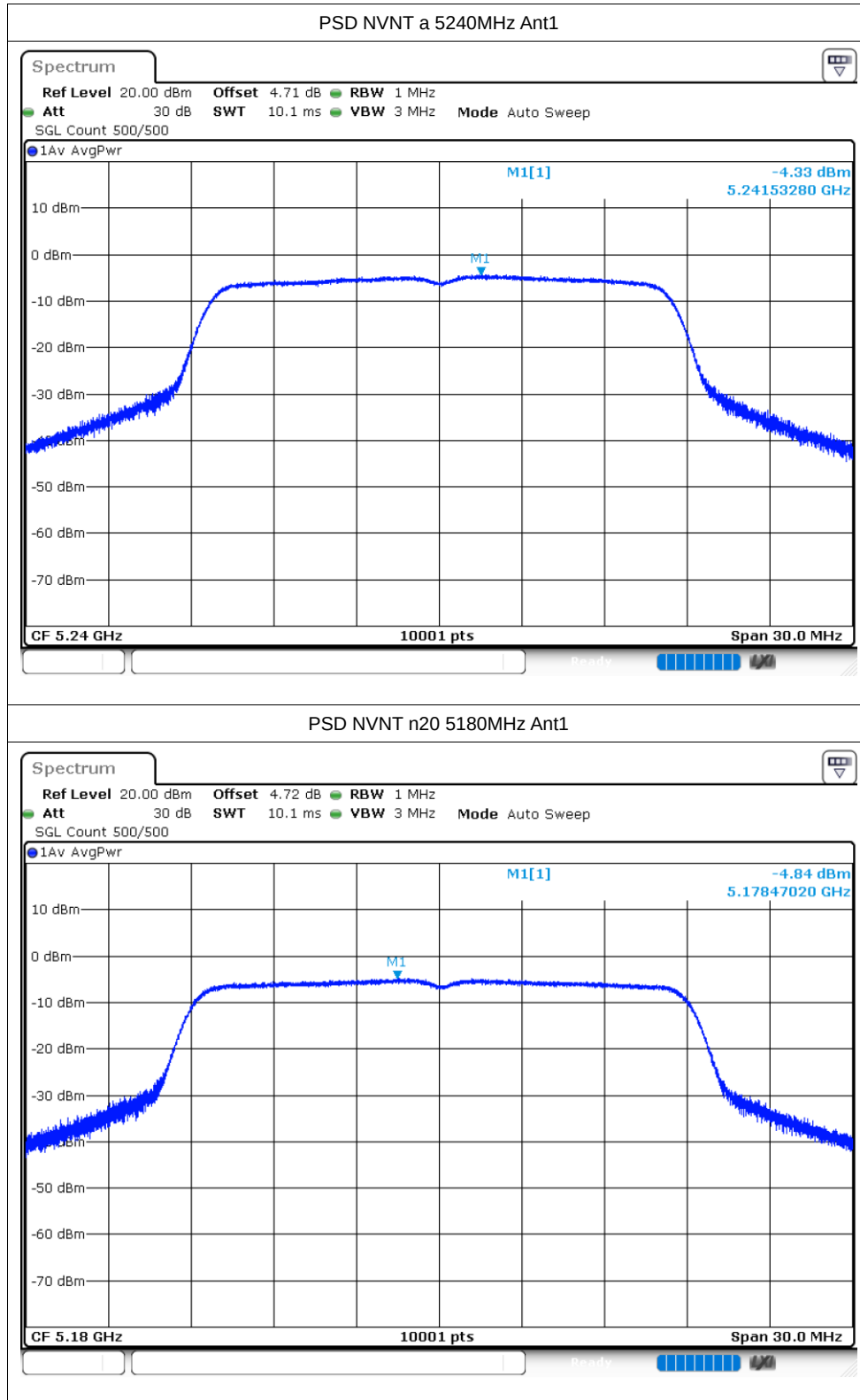
Test Graphs

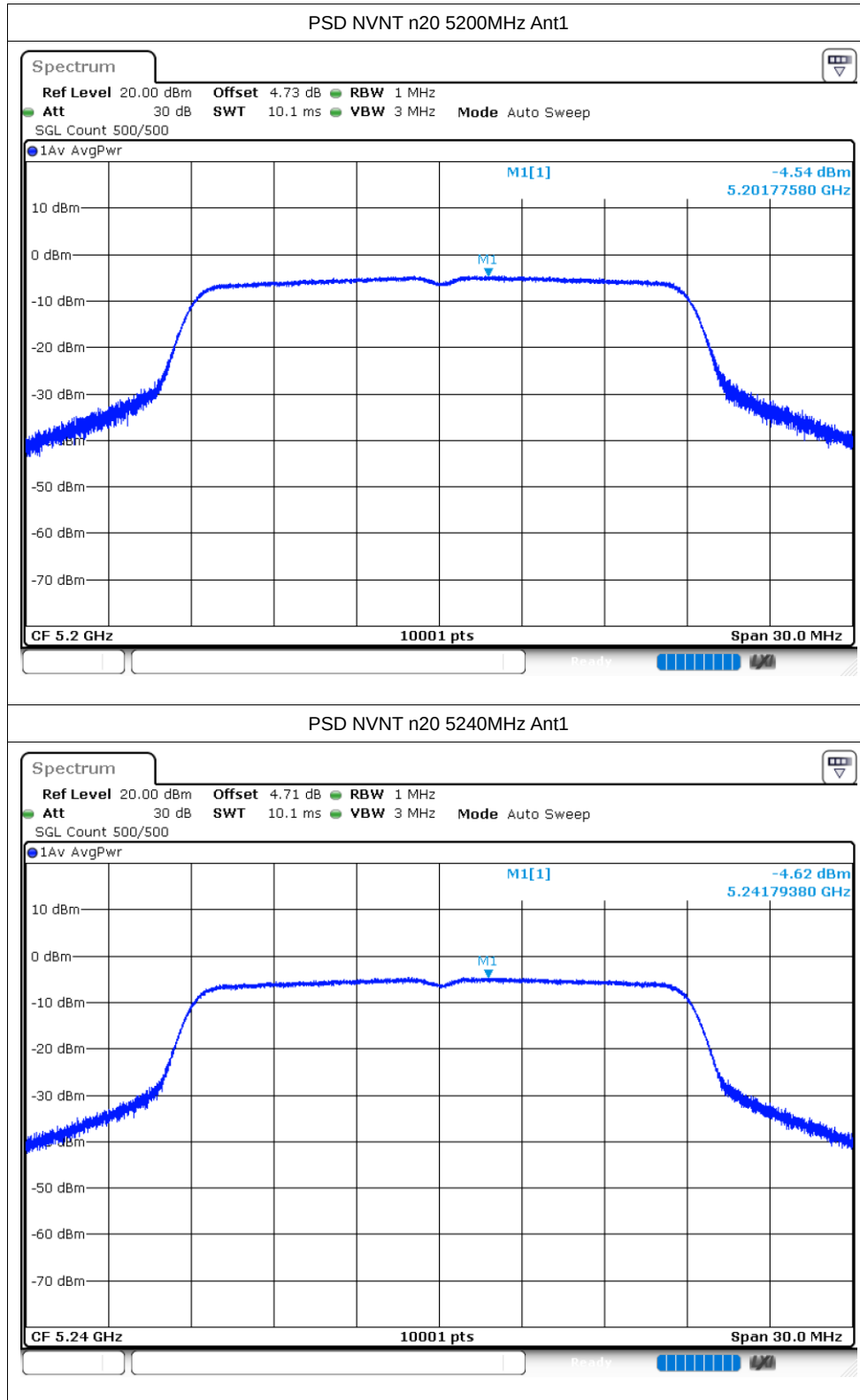
PSD NVNT a 5180MHz Ant1

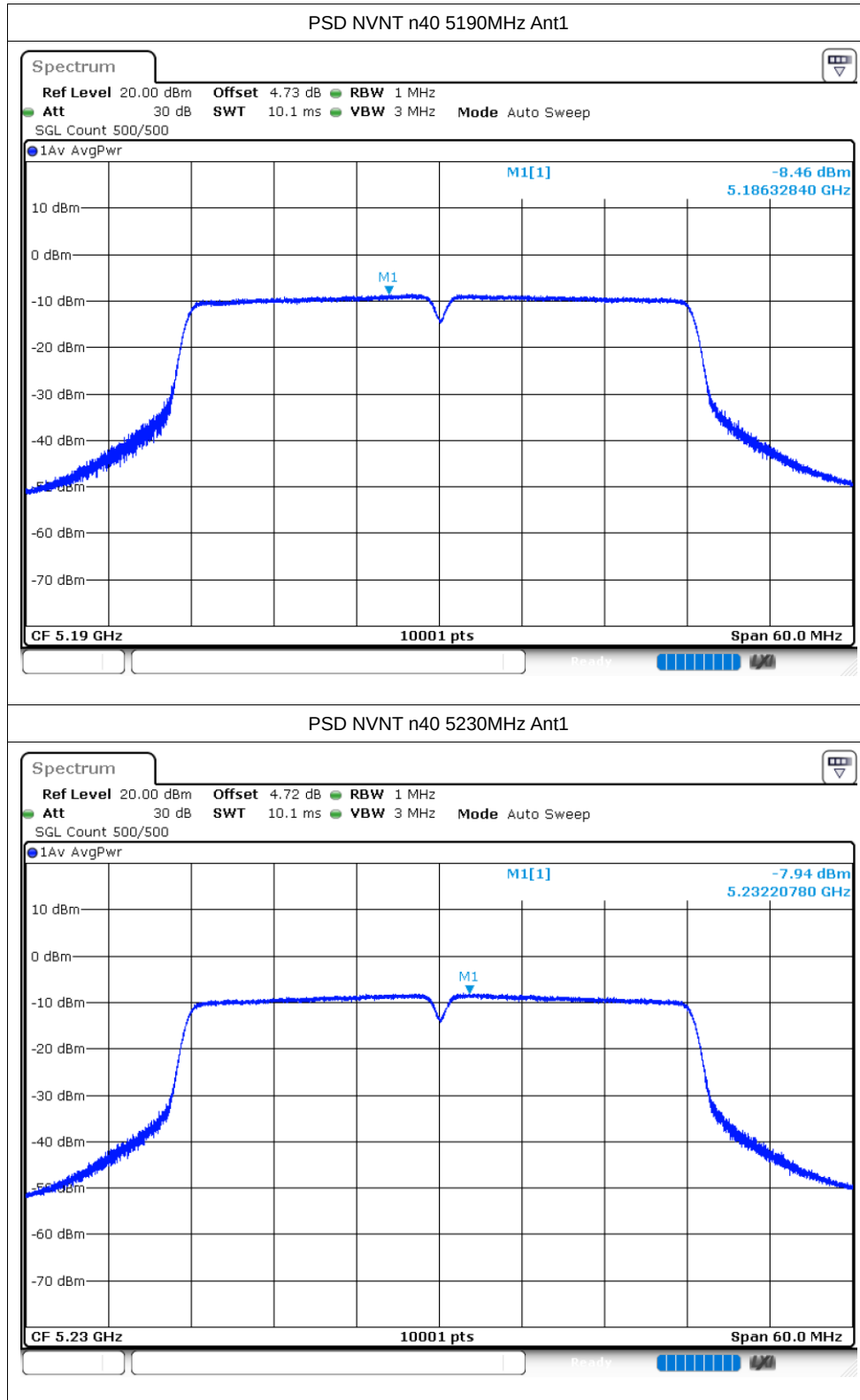


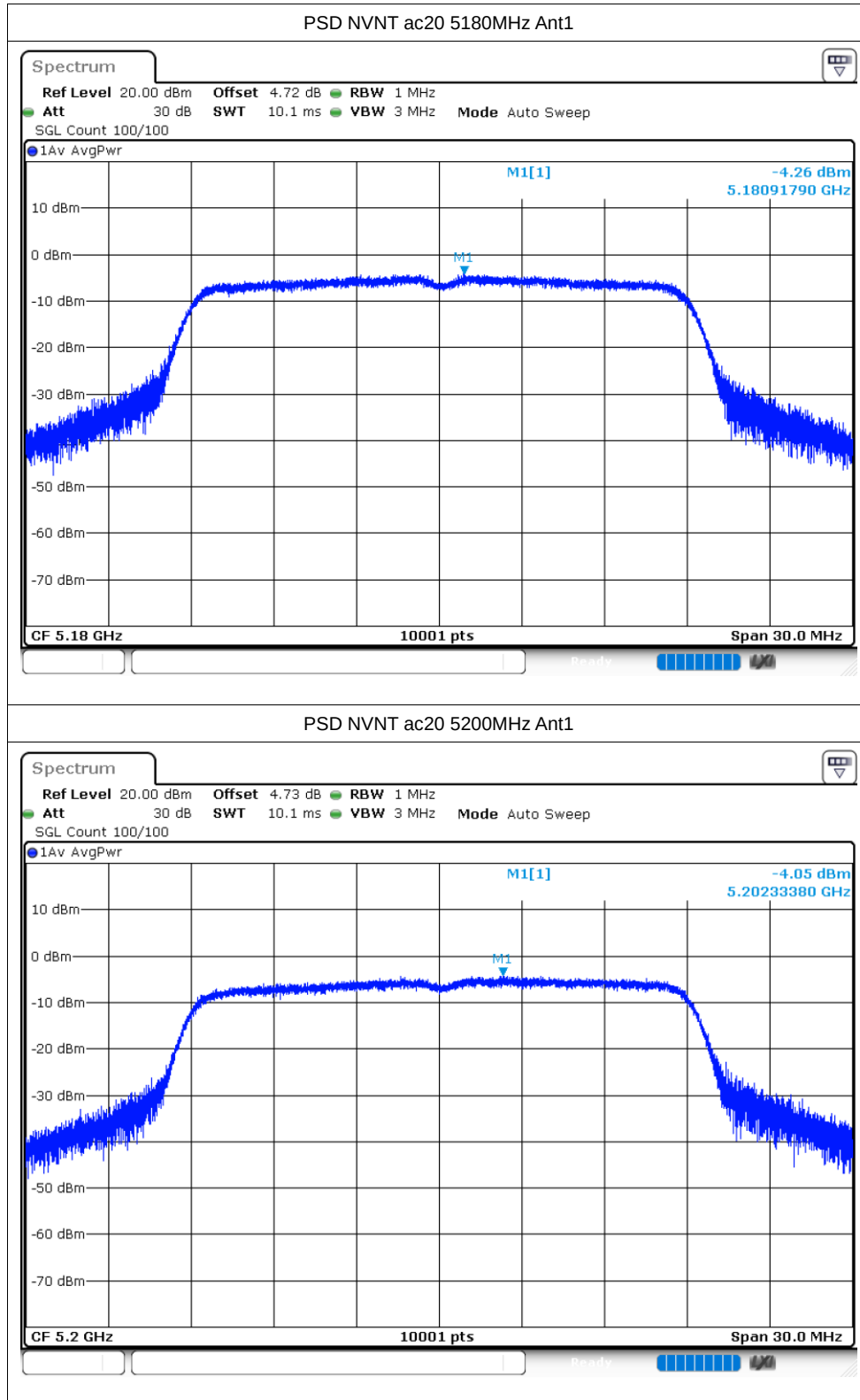
PSD NVNT a 5200MHz Ant1

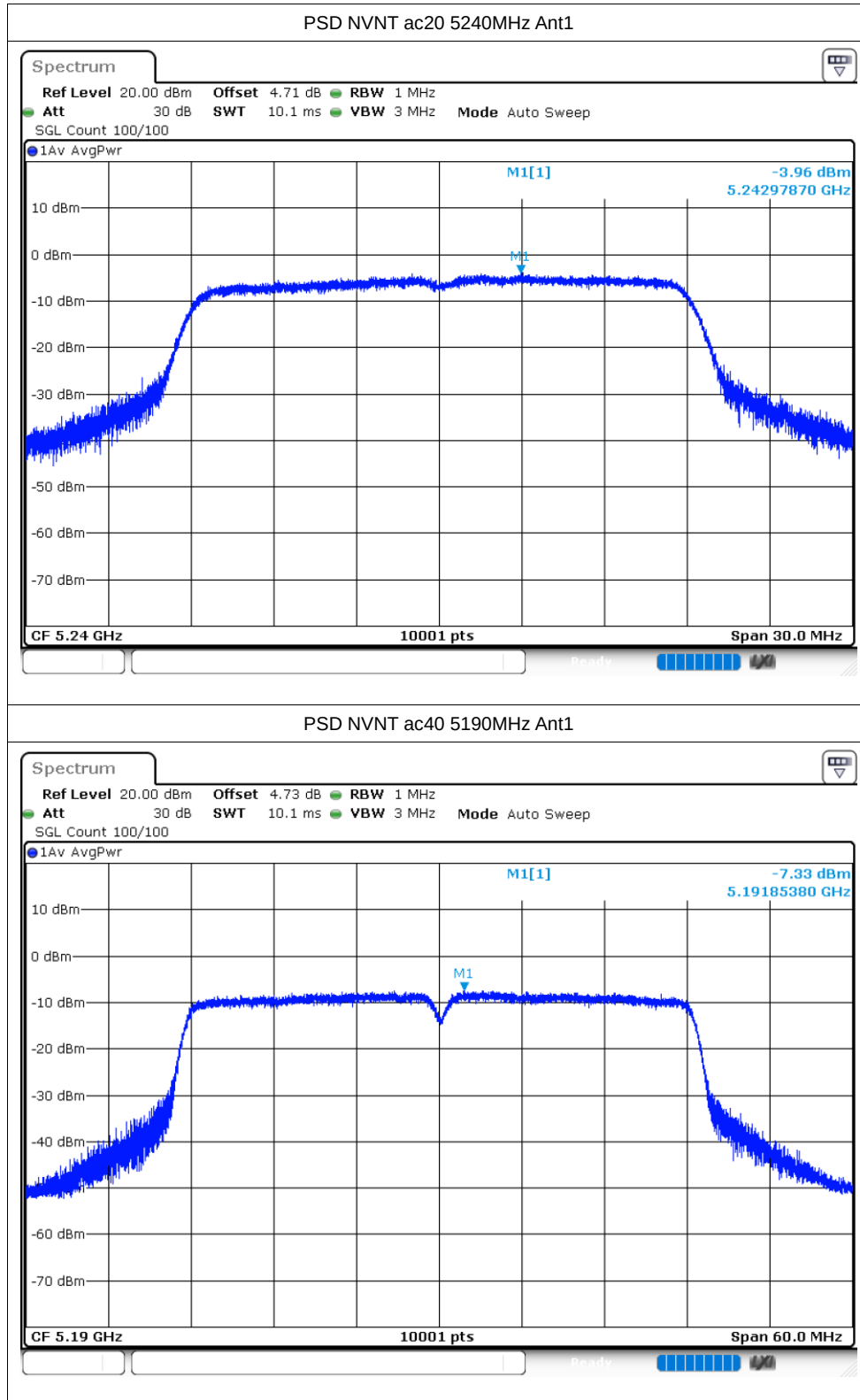


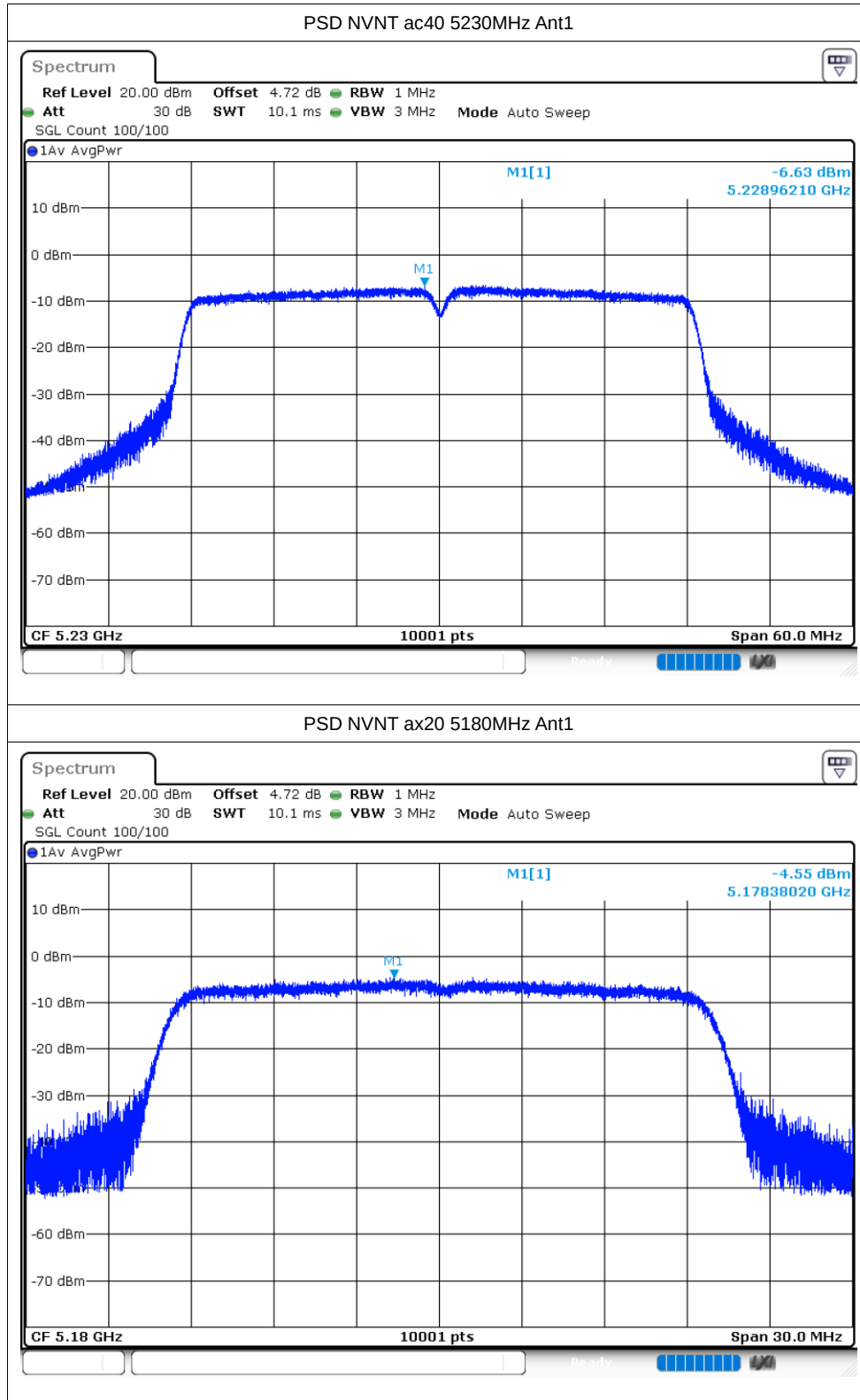


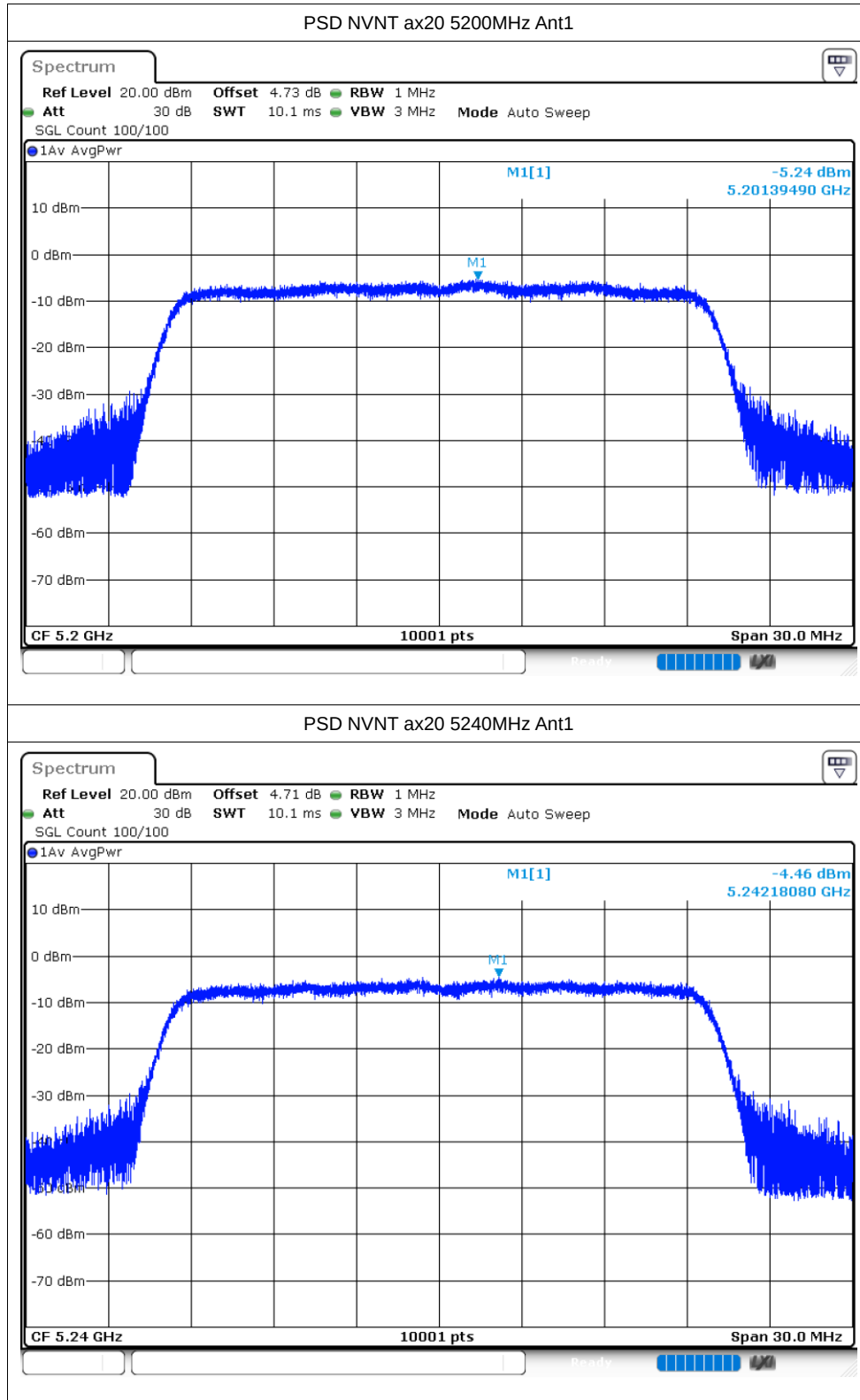


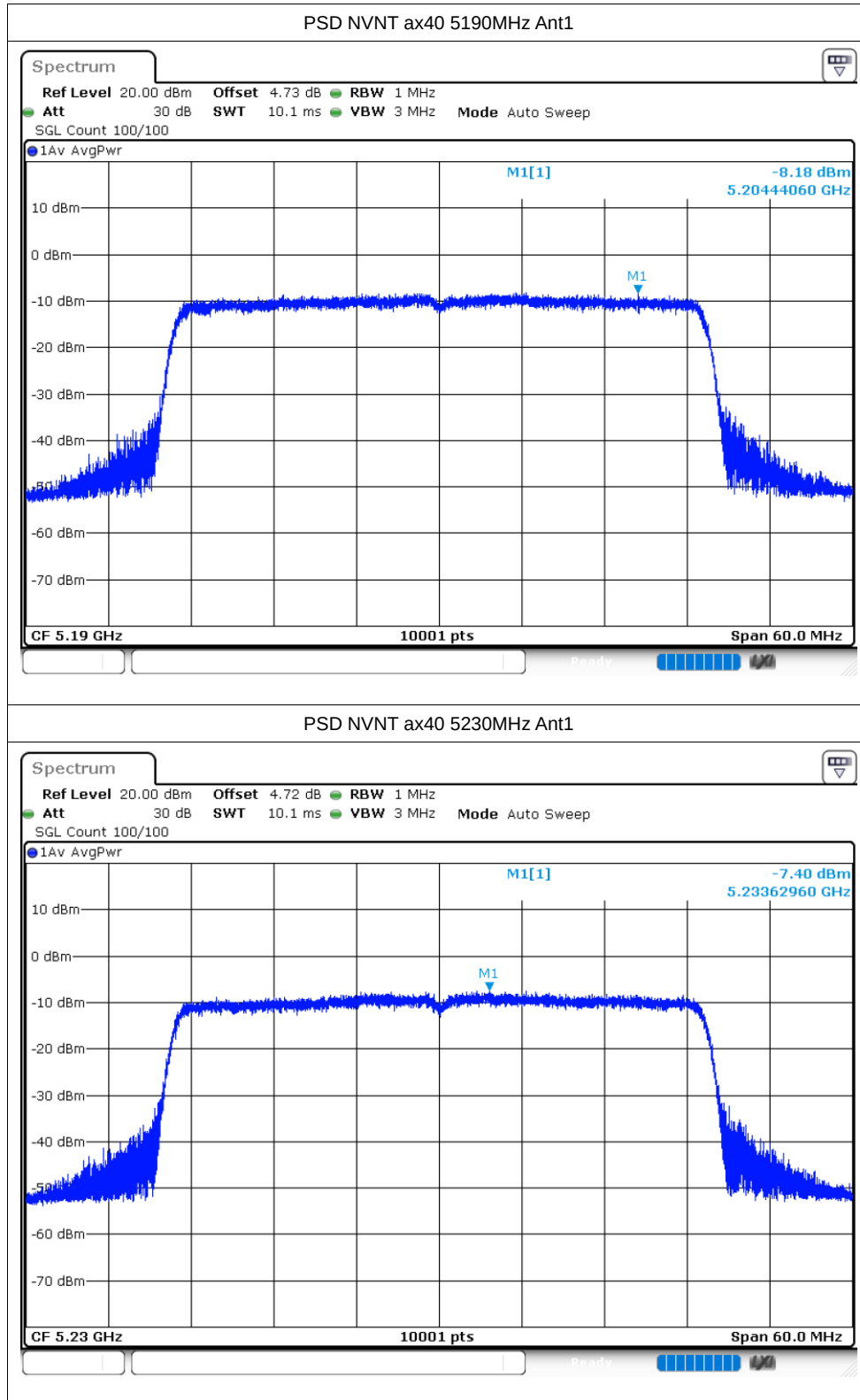












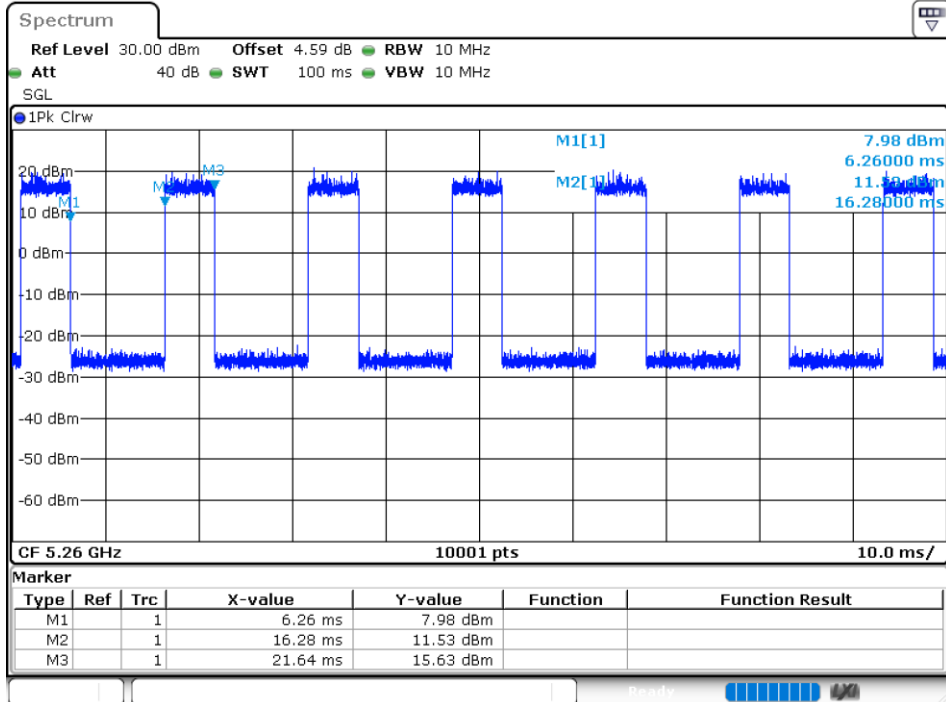
WIFI 5.3G

Duty Cycle

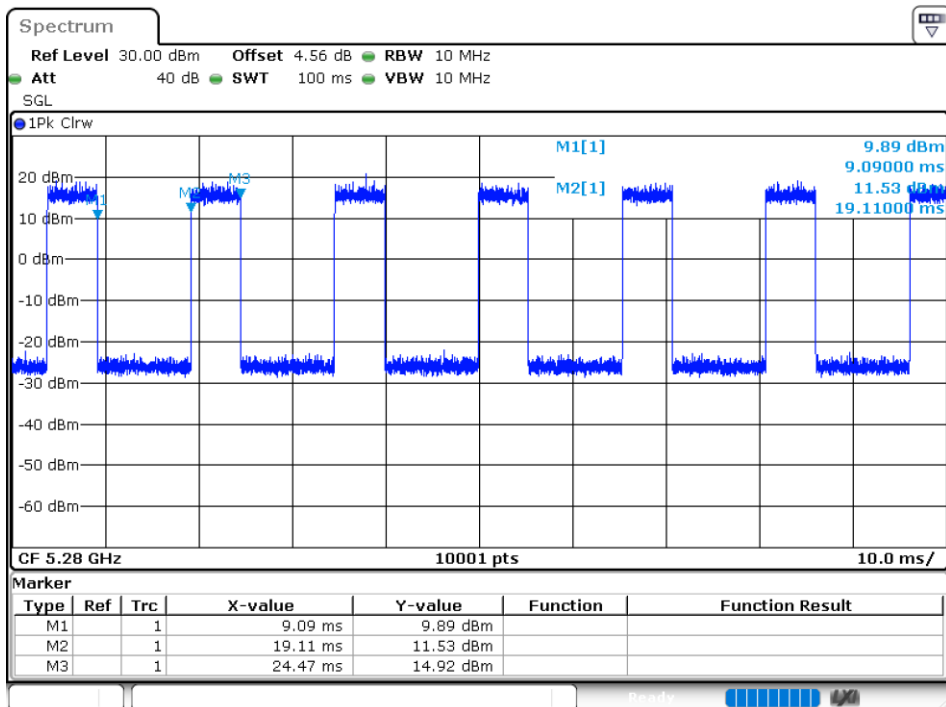
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	37.63	4.25	0.19
NVNT	a	5280	Ant1	36.21	4.41	0.19
NVNT	a	5320	Ant1	36.43	4.39	0.19
NVNT	n20	5260	Ant1	34.84	4.58	0.2
NVNT	n20	5280	Ant1	31.8	4.98	0.2
NVNT	n20	5320	Ant1	32.24	4.92	0.2
NVNT	n40	5270	Ant1	33.55	4.74	0.21
NVNT	n40	5310	Ant1	32.84	4.84	0.21
NVNT	ac20	5260	Ant1	31.41	5.03	0.2
NVNT	ac20	5280	Ant1	34.91	4.57	0.2
NVNT	ac20	5320	Ant1	30.25	5.19	0.2
NVNT	ac40	5270	Ant1	33.23	4.79	0.21
NVNT	ac40	5310	Ant1	33.08	4.8	0.21
NVNT	ax20	5260	Ant1	28.79	5.41	0.26
NVNT	ax20	5280	Ant1	29.94	5.24	0.26
NVNT	ax20	5320	Ant1	27.02	5.68	0.26
NVNT	ax40	5270	Ant1	26.57	5.76	0.26
NVNT	ax40	5310	Ant1	26.57	5.76	0.26

Test Graphs

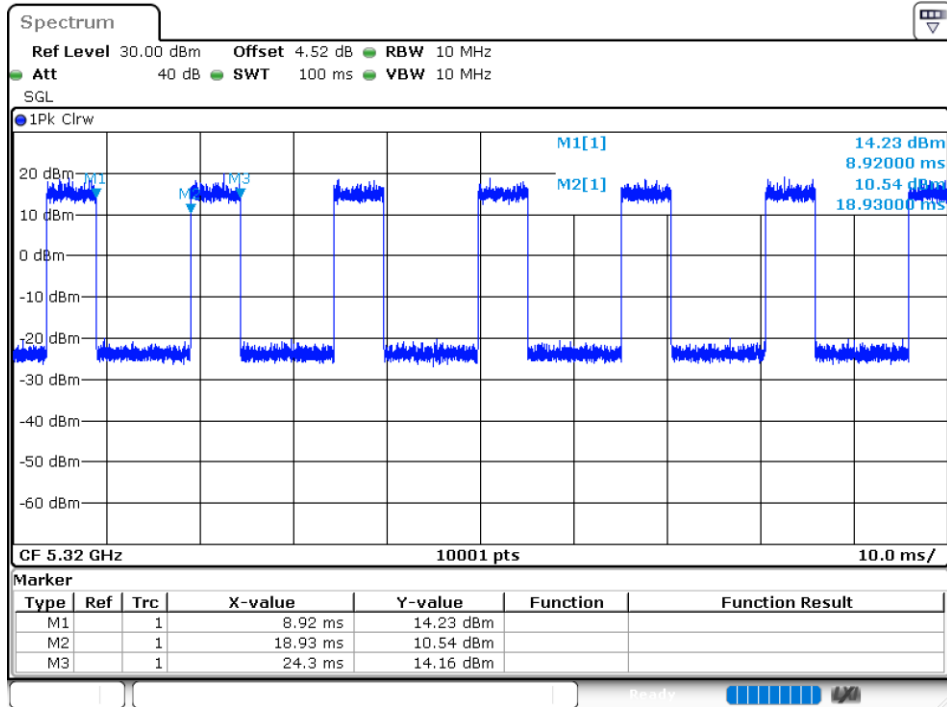
Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5280MHz Ant1



Duty Cycle NVNT a 5320MHz Ant1



Duty Cycle NVNT n20 5260MHz Ant1

