

5.2G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	94.47	0.25	0.49
NVNT	a	5200	Ant1	94.52	0.24	0.49
NVNT	a	5240	Ant1	94.6	0.24	0.49
NVNT	n20	5180	Ant1	94.23	0.26	0.52
NVNT	n20	5200	Ant1	94.12	0.26	0.52
NVNT	n20	5240	Ant1	94.09	0.26	0.52
NVNT	n40	5190	Ant1	88.77	0.52	1.06
NVNT	n40	5230	Ant1	88.81	0.52	1.06

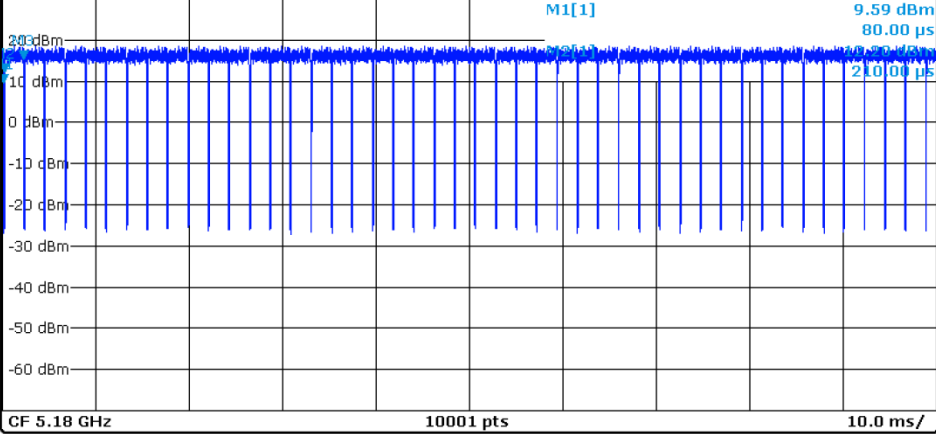
Test Graphs

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

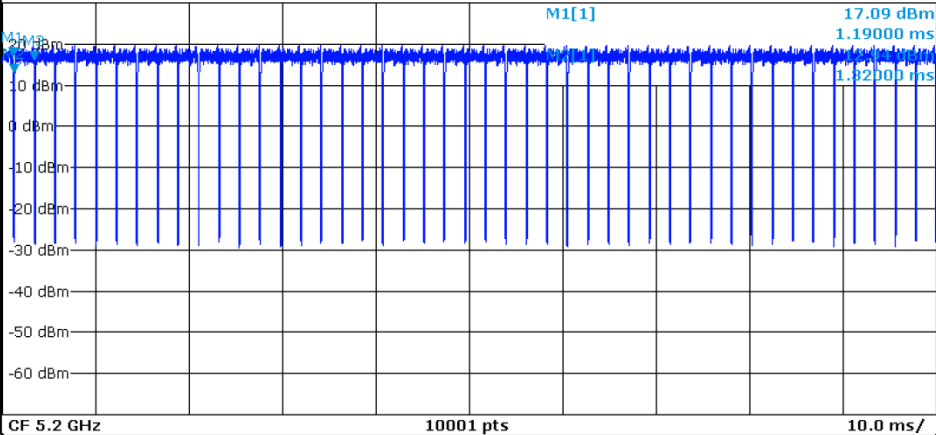


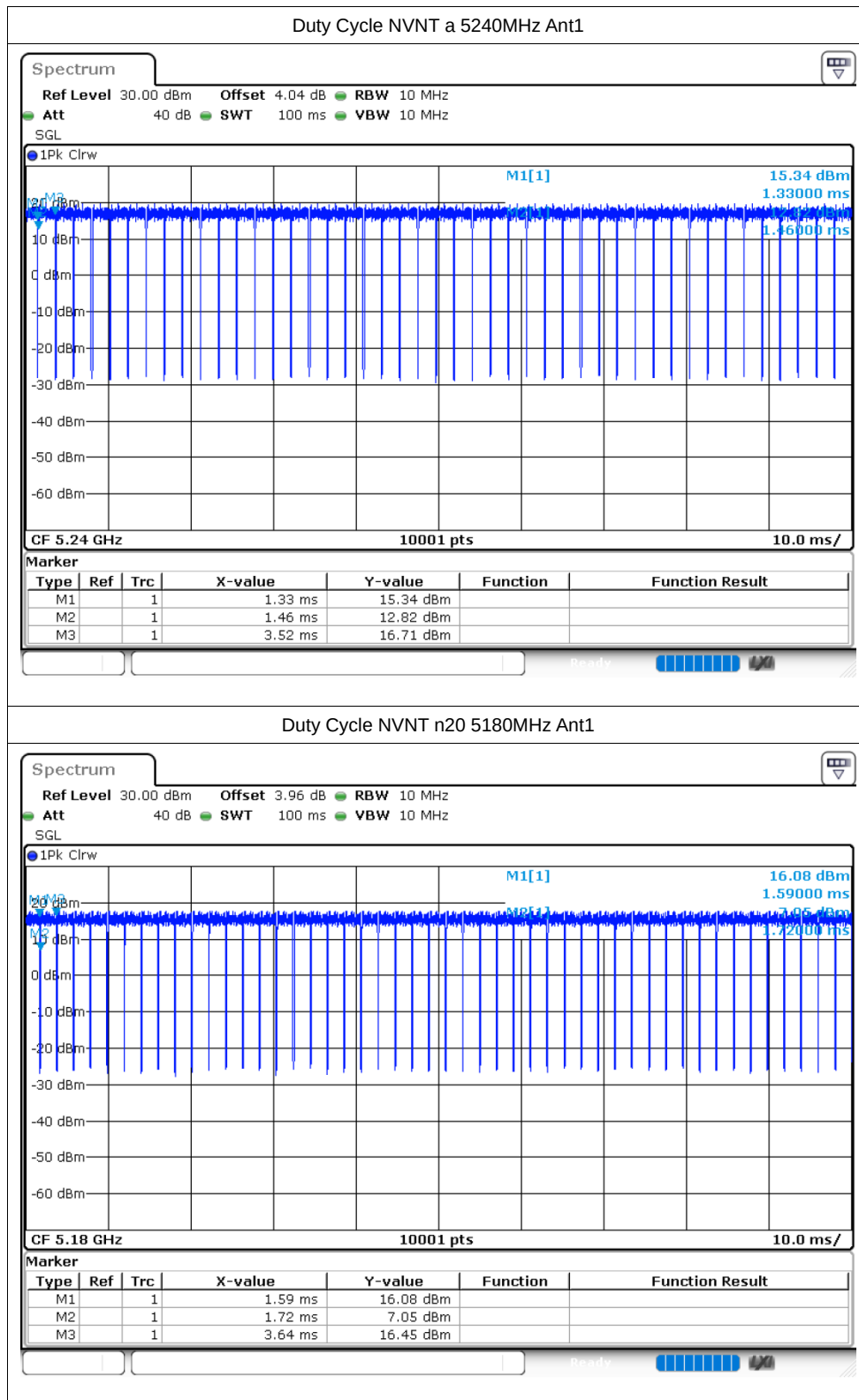
Duty Cycle NVNT a 5200MHz Ant1

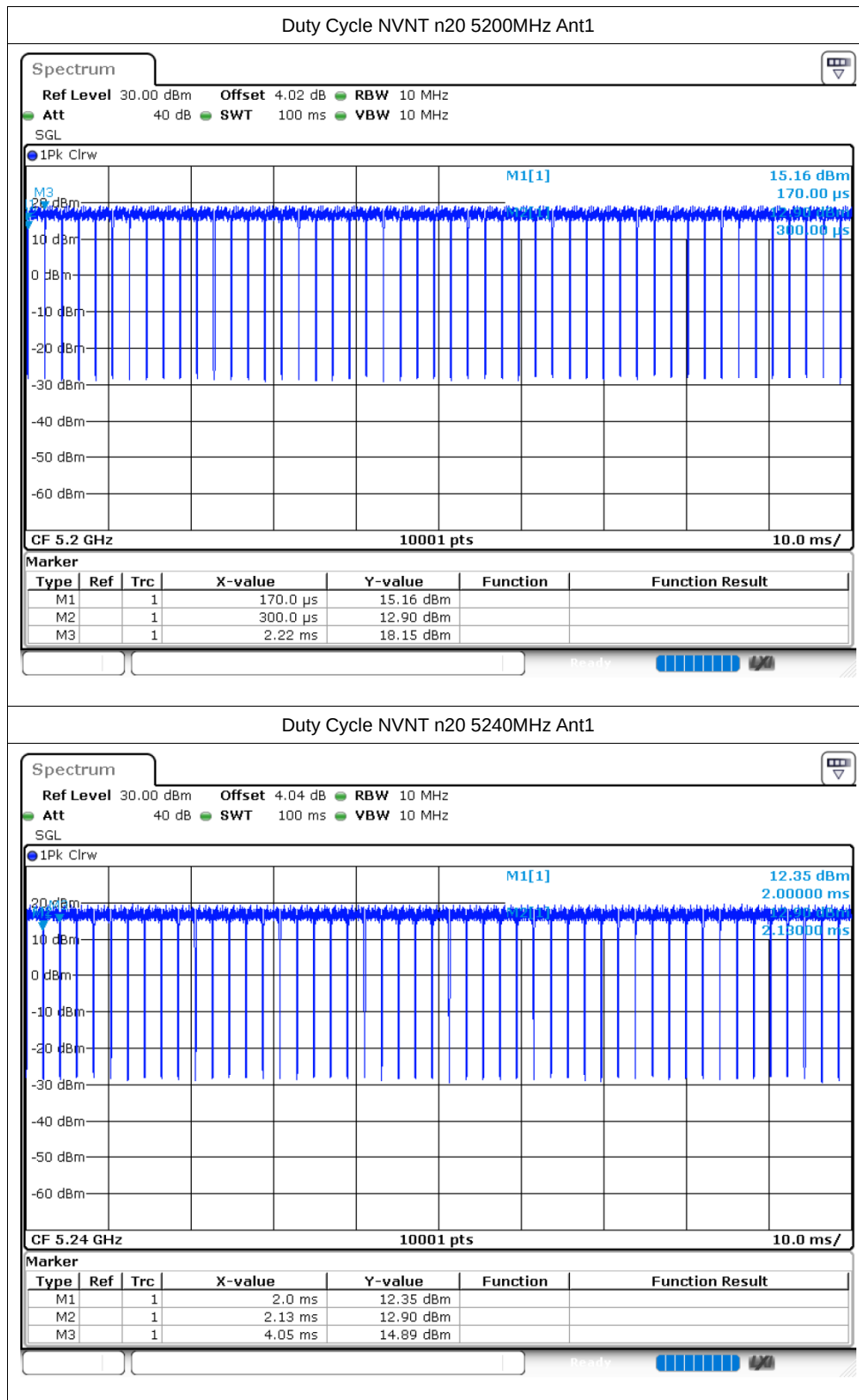
Spectrum

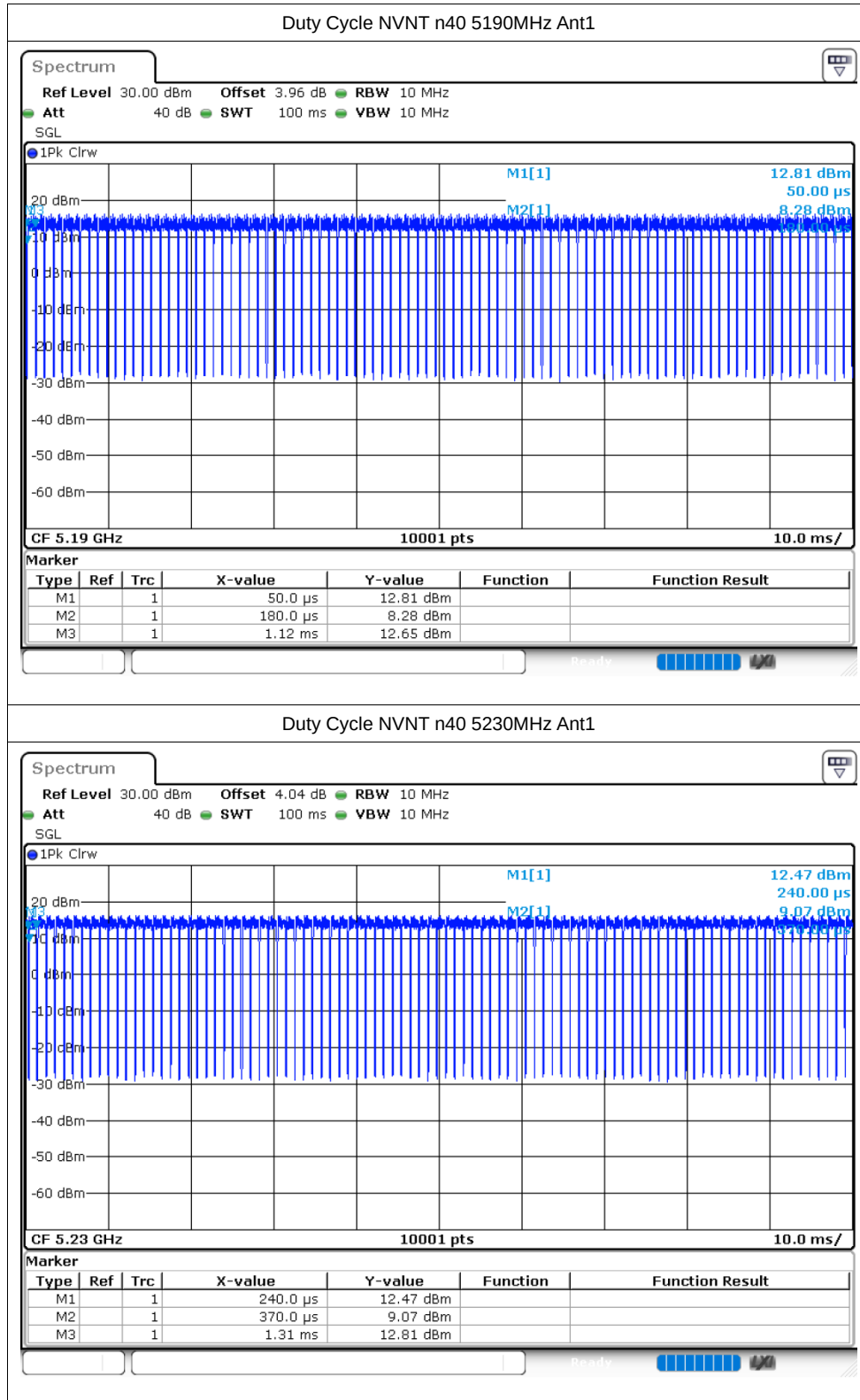
Ref Level 30.00 dBm Offset 4.02 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz
SGL

1Pk Clrw









Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.67	24	Pass
NVNT	a	5200	Ant1	12.96	24	Pass
NVNT	a	5240	Ant1	12.57	24	Pass
NVNT	n20	5180	Ant1	12.72	24	Pass
NVNT	n20	5200	Ant1	12.7	24	Pass
NVNT	n20	5240	Ant1	12.59	24	Pass
NVNT	n40	5190	Ant1	12.57	24	Pass
NVNT	n40	5230	Ant1	12.7	24	Pass

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	21.453	Pass
NVNT	a	5200	Ant1	20.475	Pass
NVNT	a	5240	Ant1	20.223	Pass
NVNT	n20	5180	Ant1	21.702	Pass
NVNT	n20	5200	Ant1	21.711	Pass
NVNT	n20	5240	Ant1	20.787	Pass
NVNT	n40	5190	Ant1	38.976	Pass
NVNT	n40	5230	Ant1	39.054	Pass

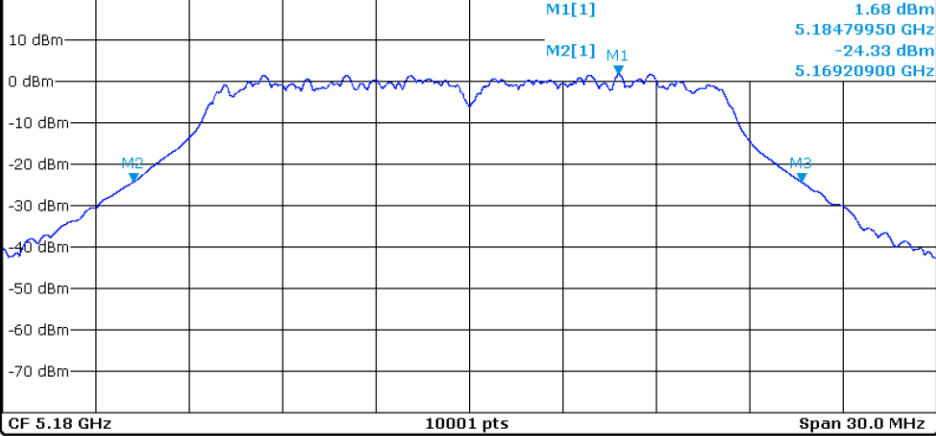
Test Graphs

-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

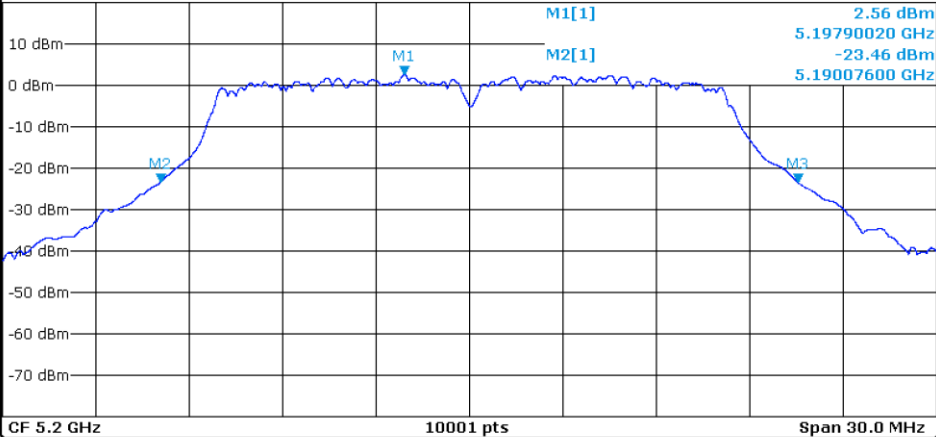


-26dB Bandwidth NVNT a 5200MHz Ant1

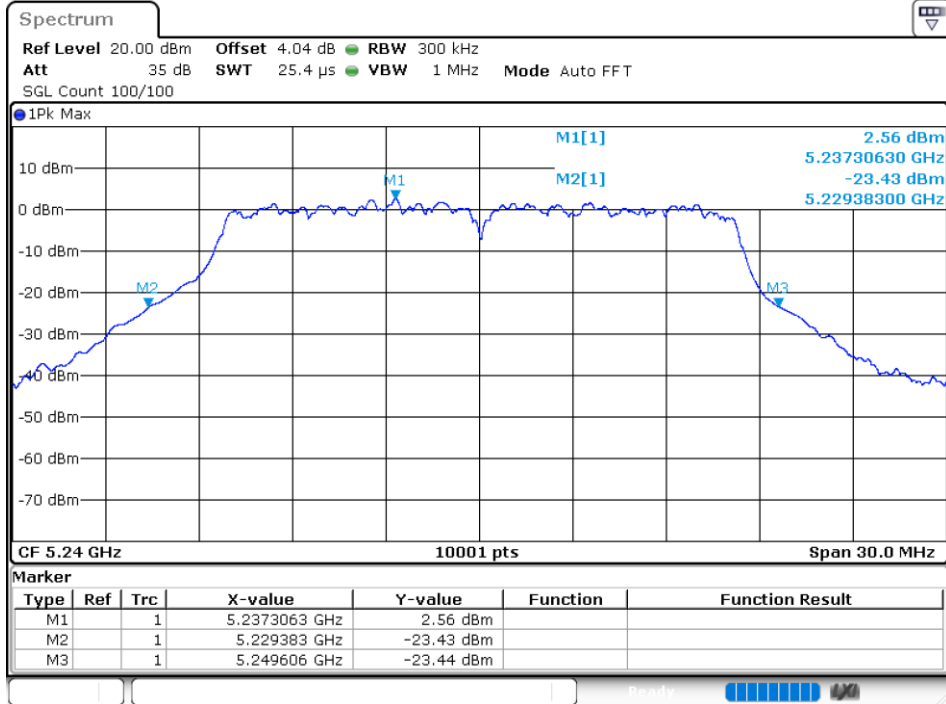
Spectrum

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

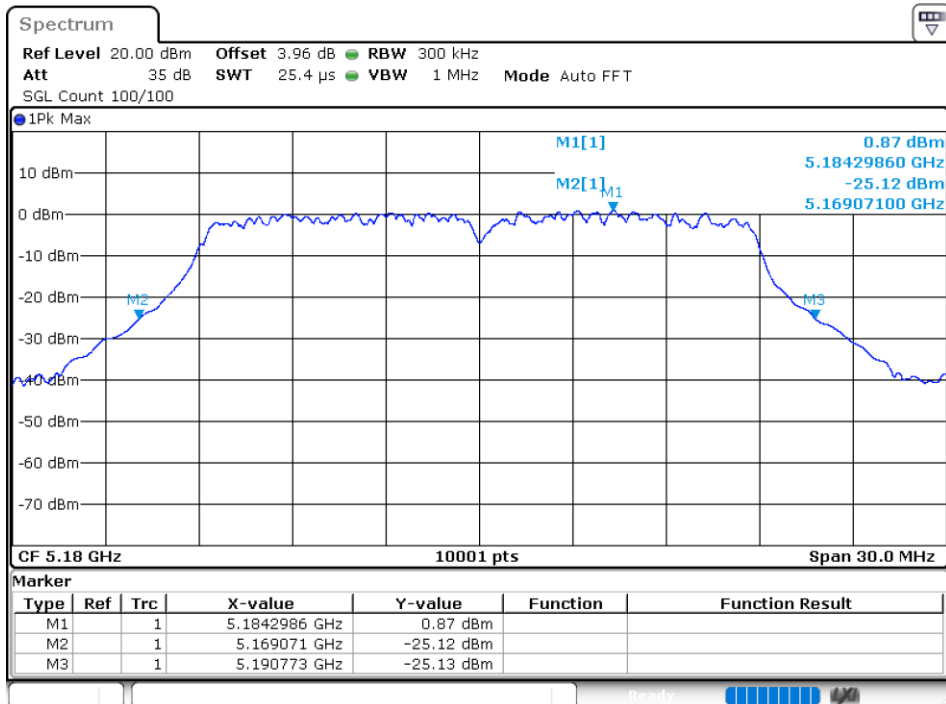
1Pk Max

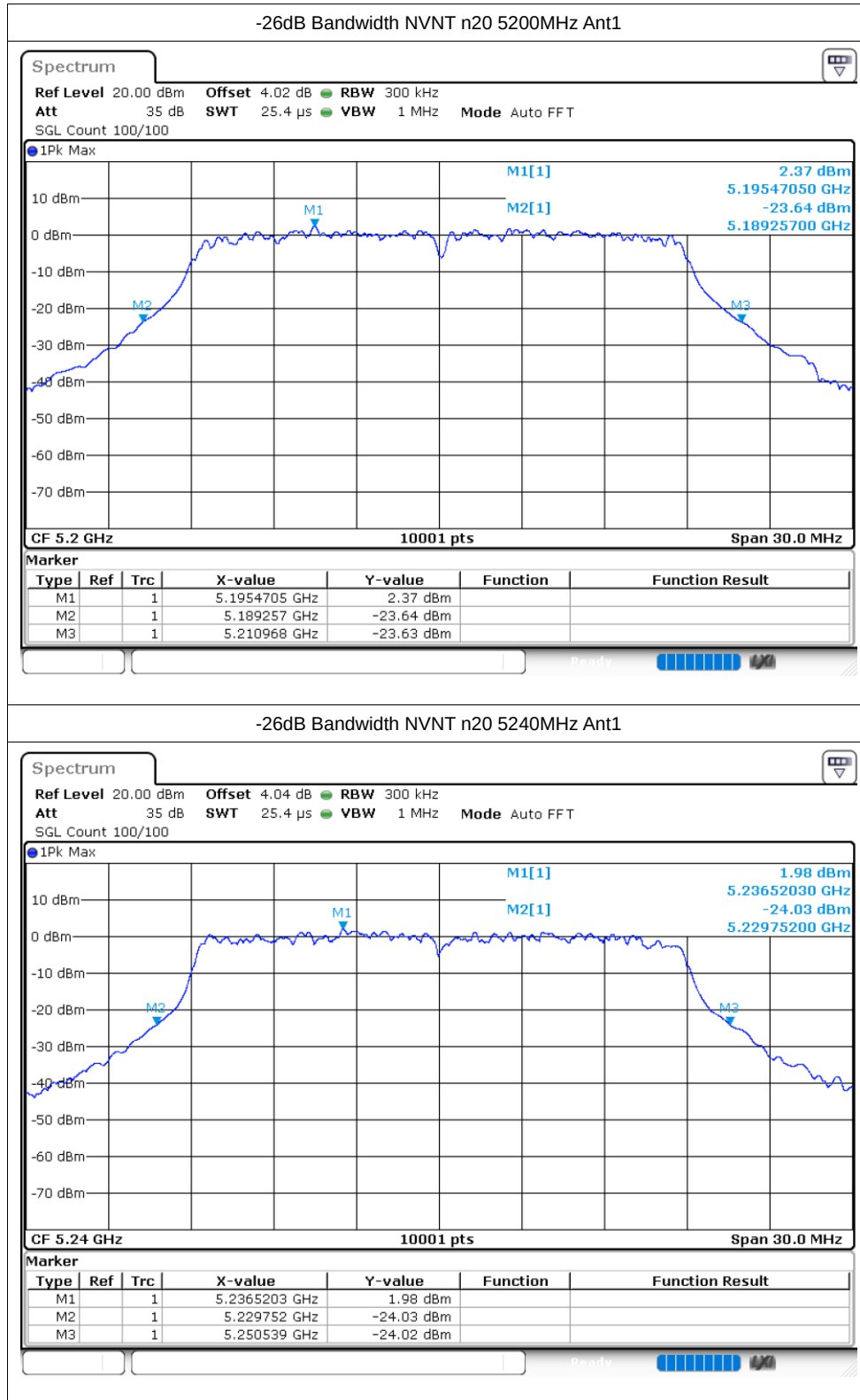


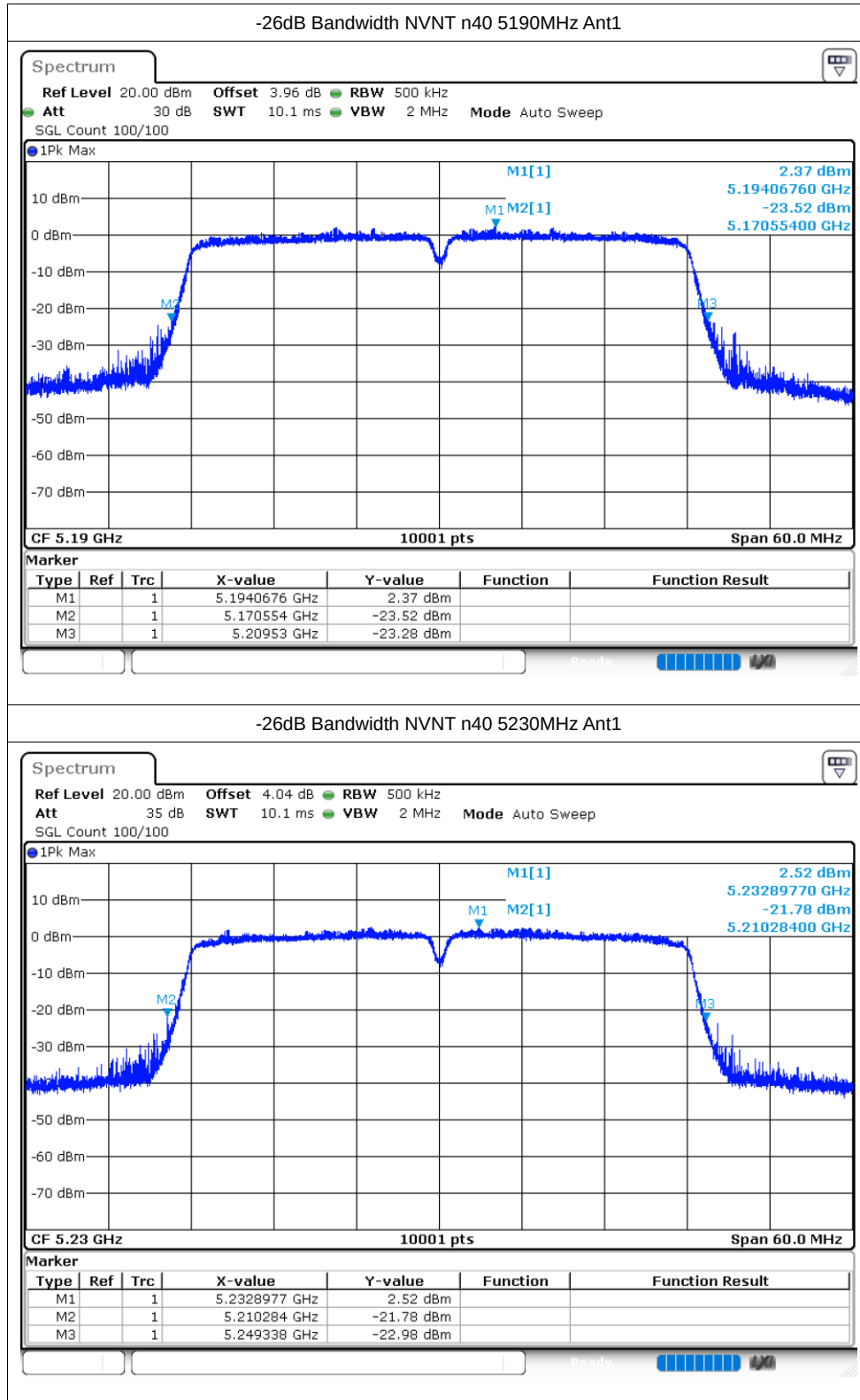
-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1





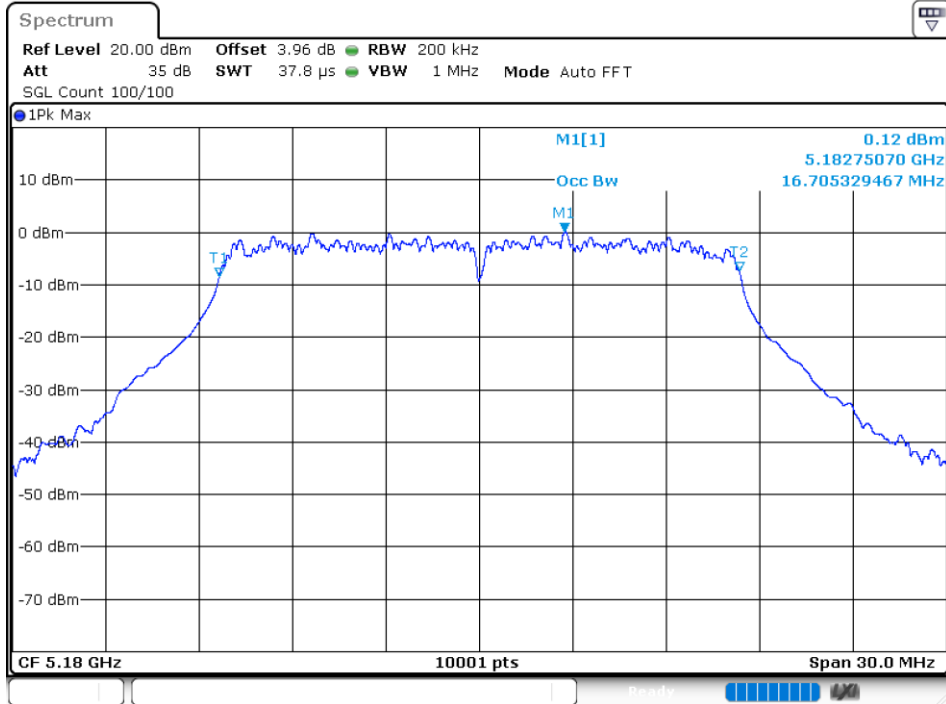


Occupied Channel Bandwidth

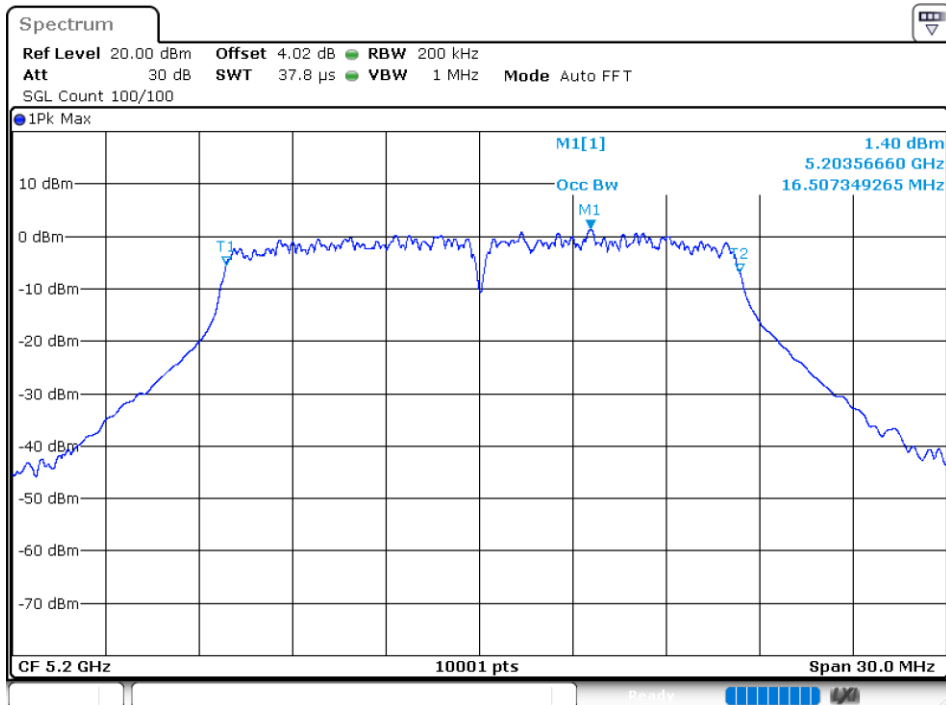
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.705
NVNT	a	5200	Ant1	16.507
NVNT	a	5240	Ant1	16.573
NVNT	n20	5180	Ant1	17.674
NVNT	n20	5200	Ant1	17.578
NVNT	n20	5240	Ant1	17.746
NVNT	n40	5190	Ant1	35.9
NVNT	n40	5230	Ant1	35.792

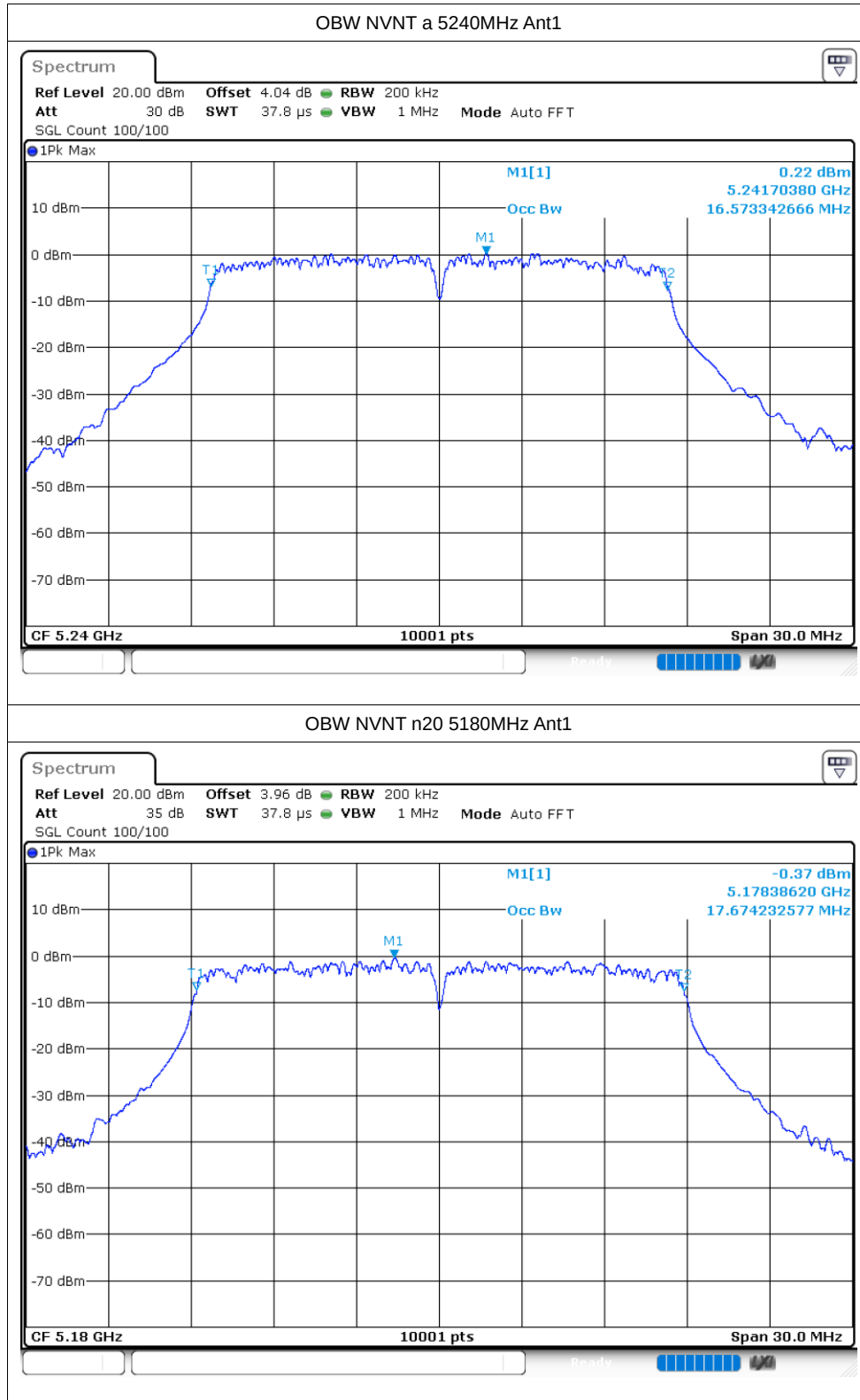
Test Graphs

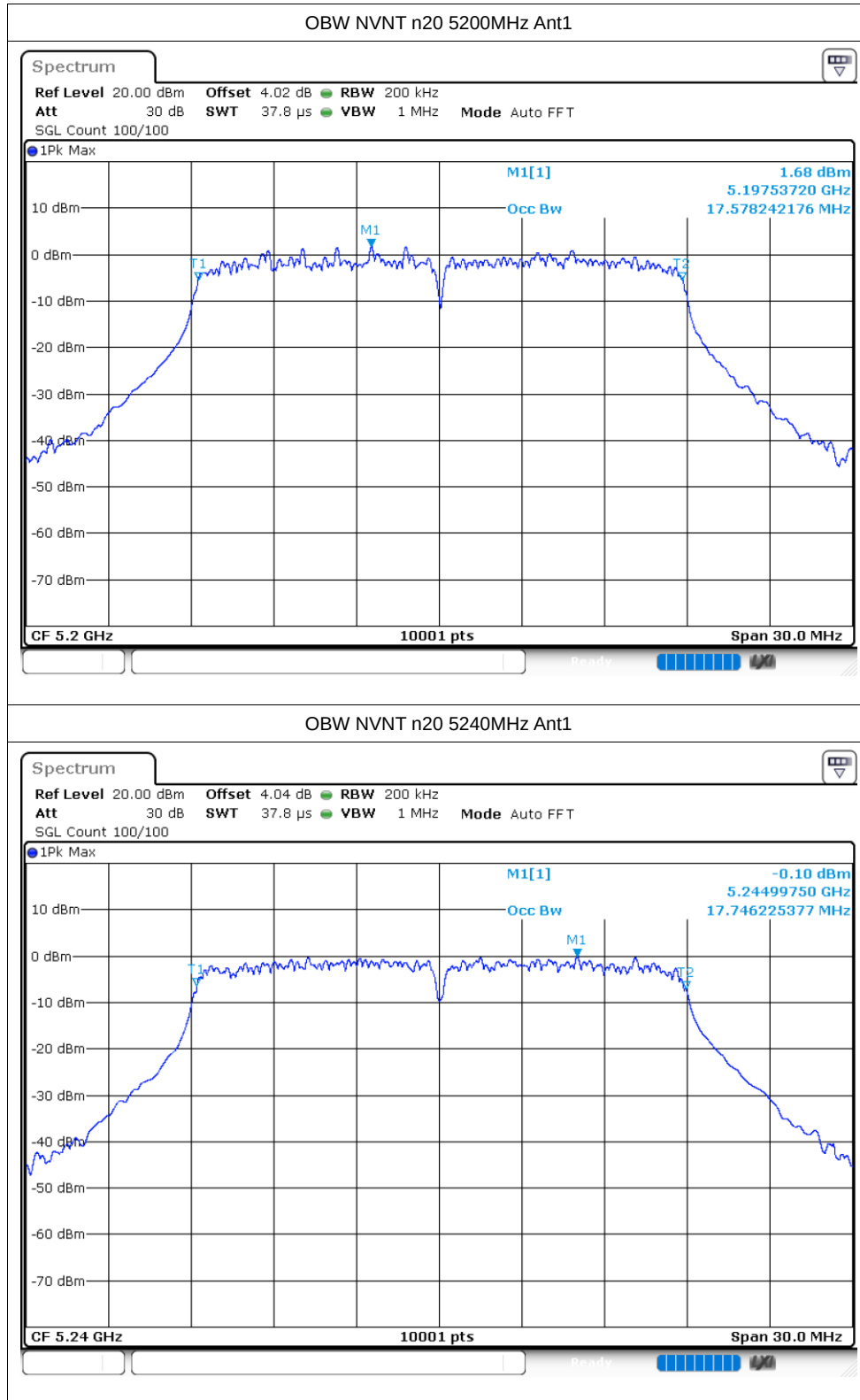
OBW NVNT a 5180MHz Ant1

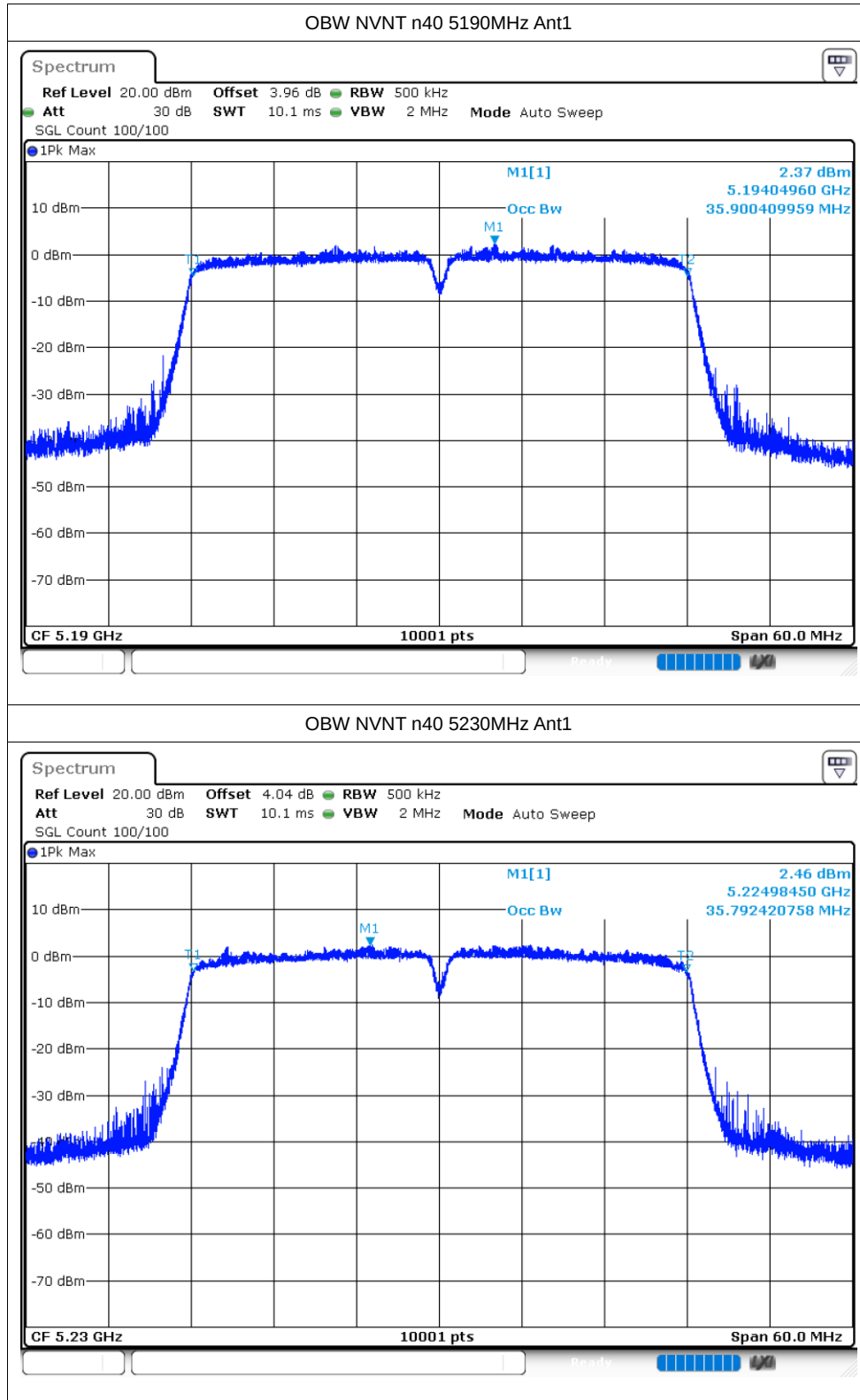


OBW NVNT a 5200MHz Ant1







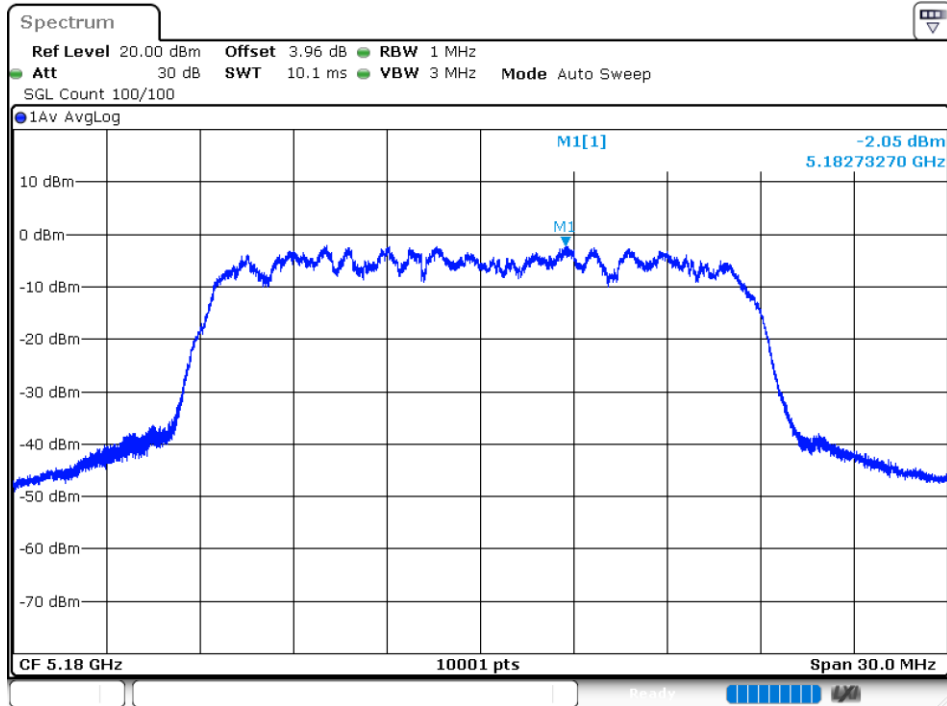


Maximum Power Spectral Density Level

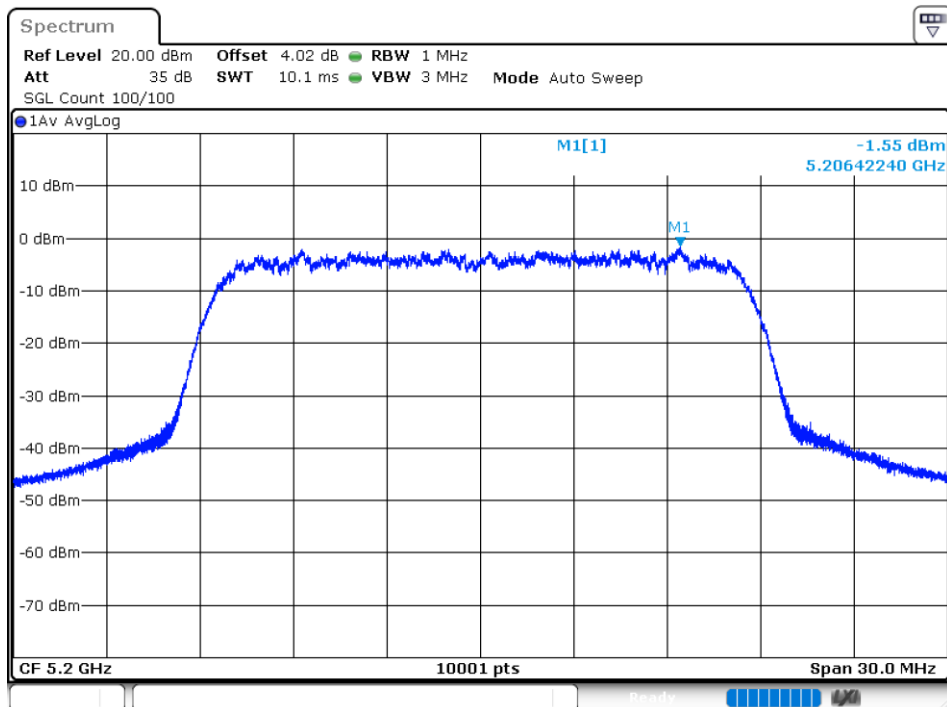
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-2.05	0.25	-1.8	11	Pass
NVNT	a	5200	Ant1	-1.55	0.24	-1.31	11	Pass
NVNT	a	5240	Ant1	-0.95	0.24	-0.71	11	Pass
NVNT	n20	5180	Ant1	-2.54	0.26	-2.28	11	Pass
NVNT	n20	5200	Ant1	-1.35	0.26	-1.09	11	Pass
NVNT	n20	5240	Ant1	-1.91	0.26	-1.65	11	Pass
NVNT	n40	5190	Ant1	-6.32	0.52	-5.8	11	Pass
NVNT	n40	5230	Ant1	-6.02	0.52	-5.5	11	Pass

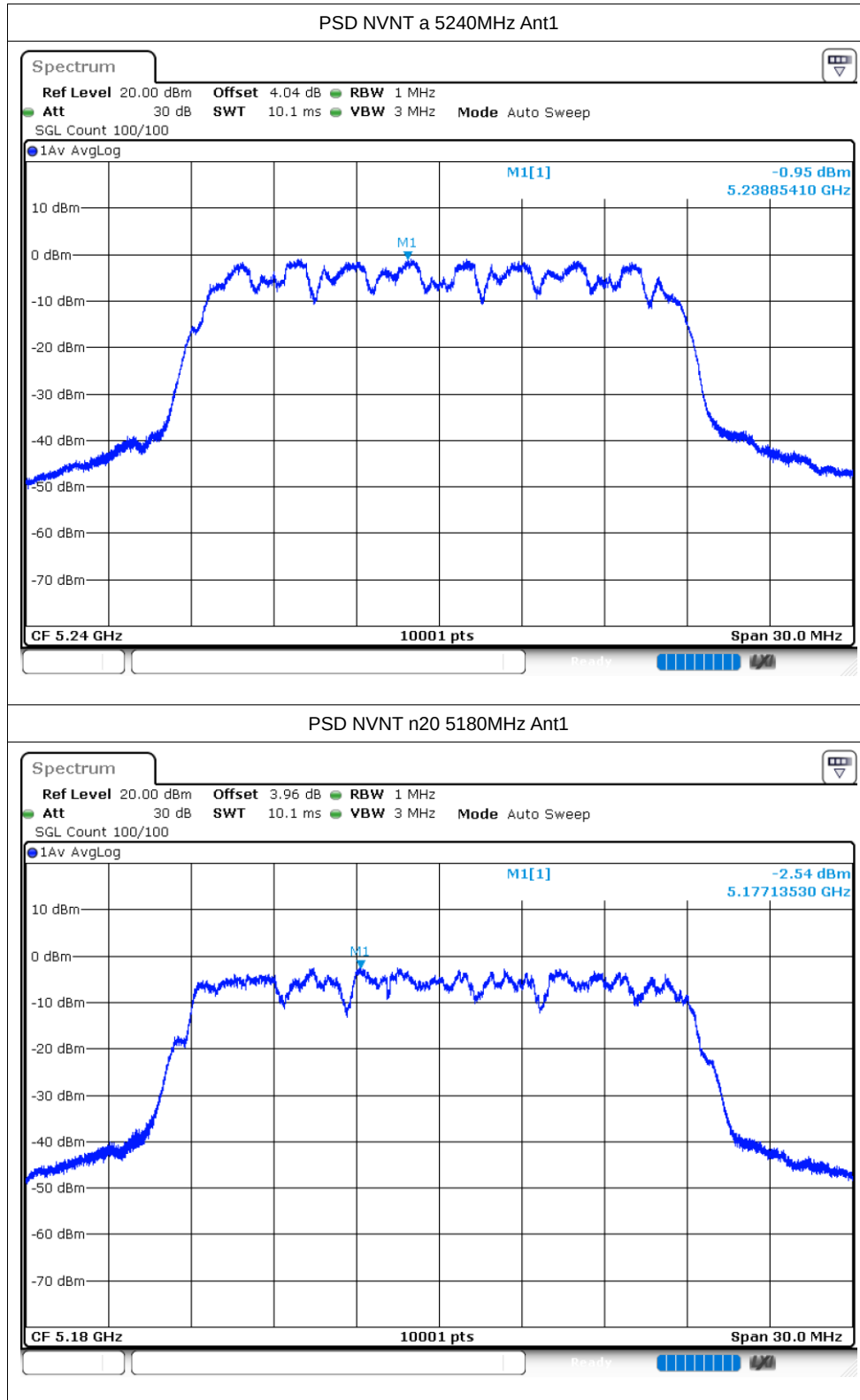
Test Graphs

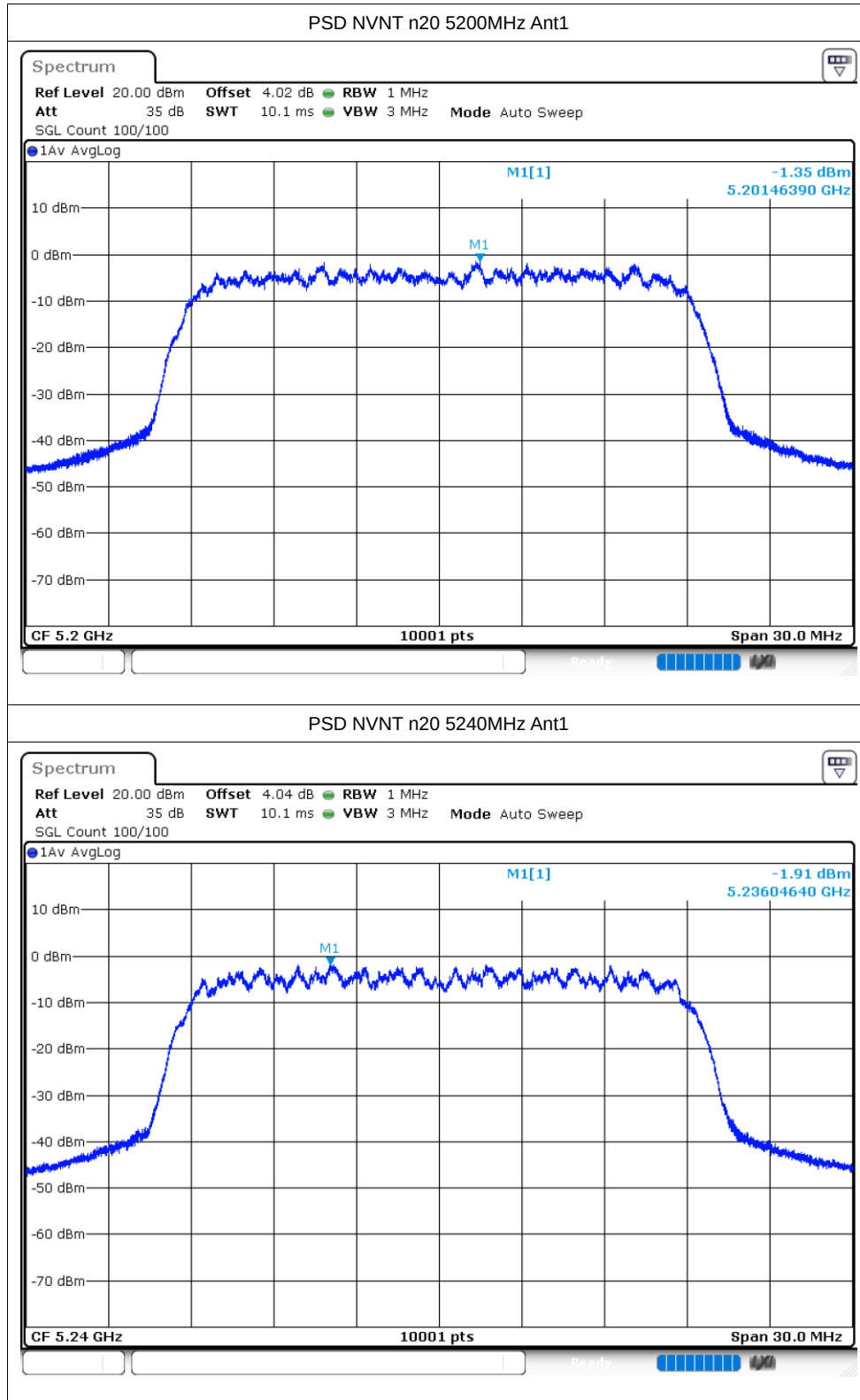
PSD NVNT a 5180MHz Ant1

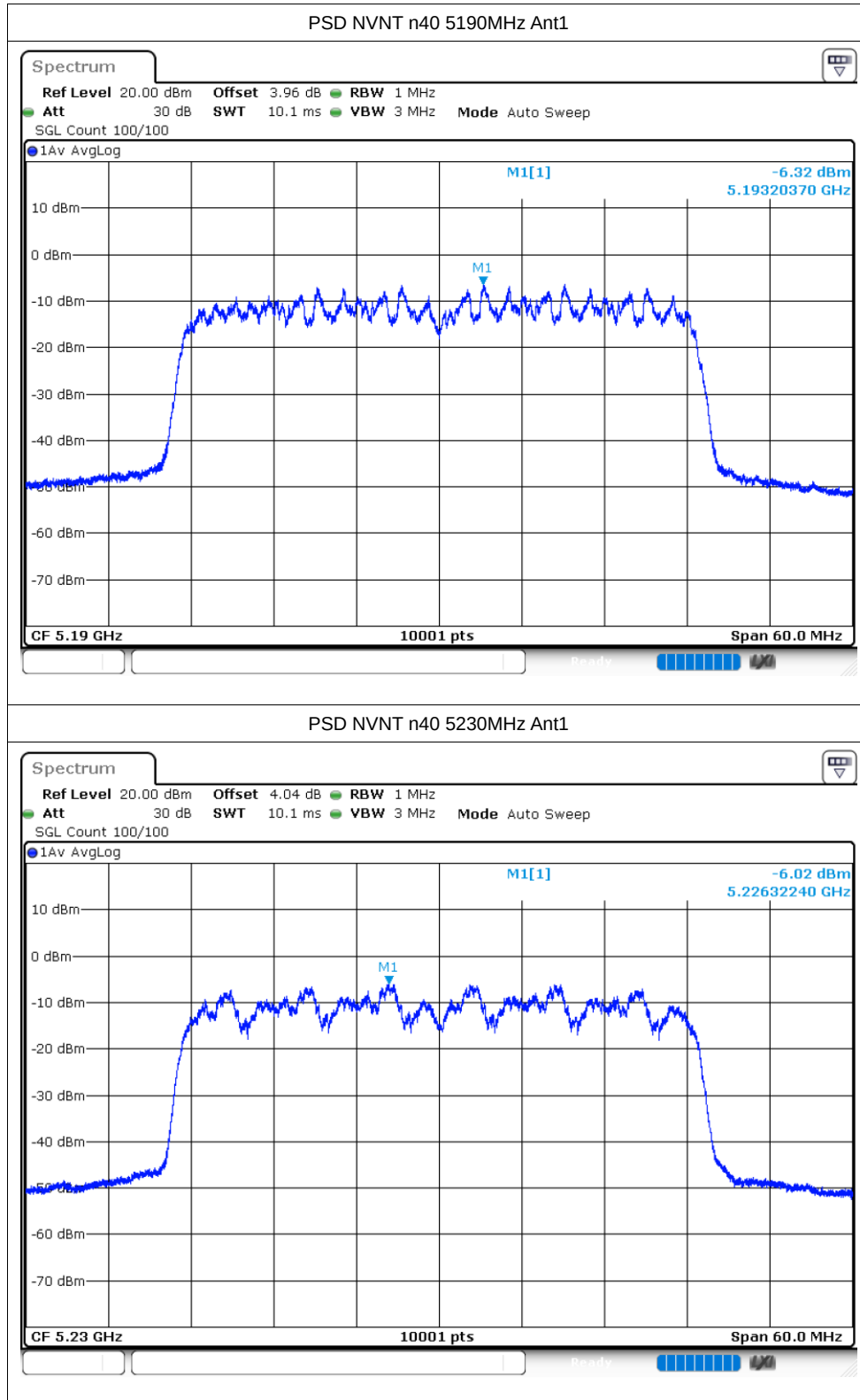


PSD NVNT a 5200MHz Ant1









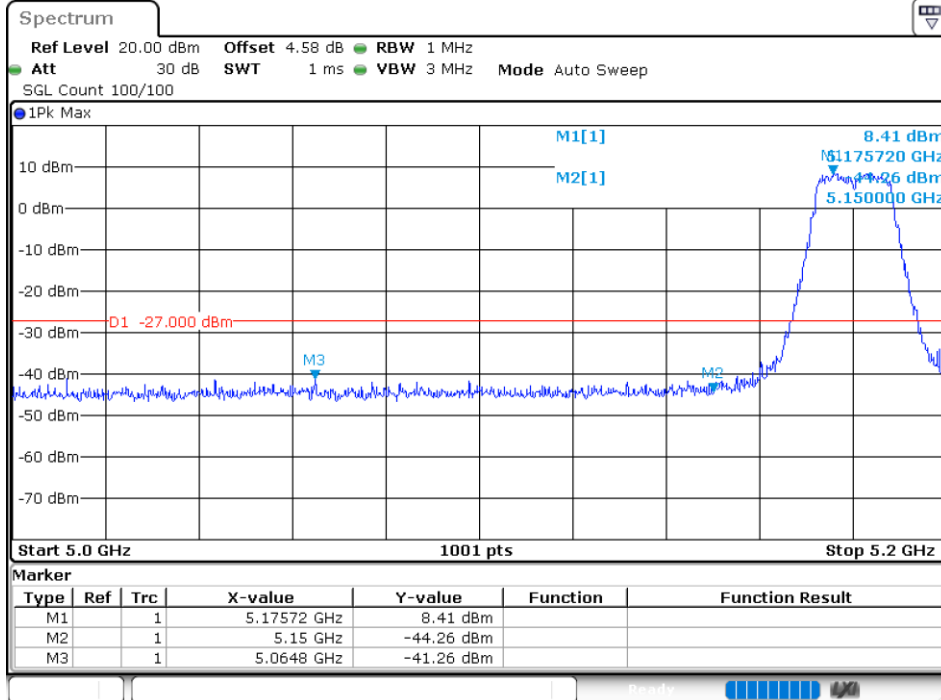
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-41.25	-27	Pass
NVNT	a	5240	Ant1	-41.42	-27	Pass
NVNT	n20	5180	Ant1	-41.09	-27	Pass
NVNT	n20	5240	Ant1	-41.98	-27	Pass
NVNT	n40	5190	Ant1	-37.31	-27	Pass
NVNT	n40	5230	Ant1	-42.15	-27	Pass

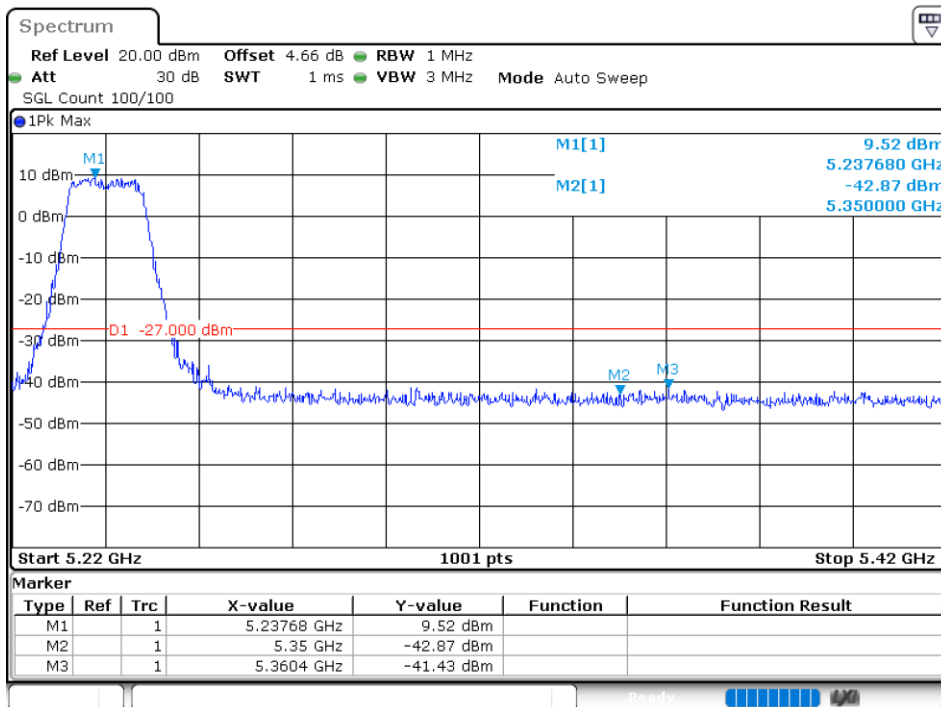
Note: This test has increased antenna gain .

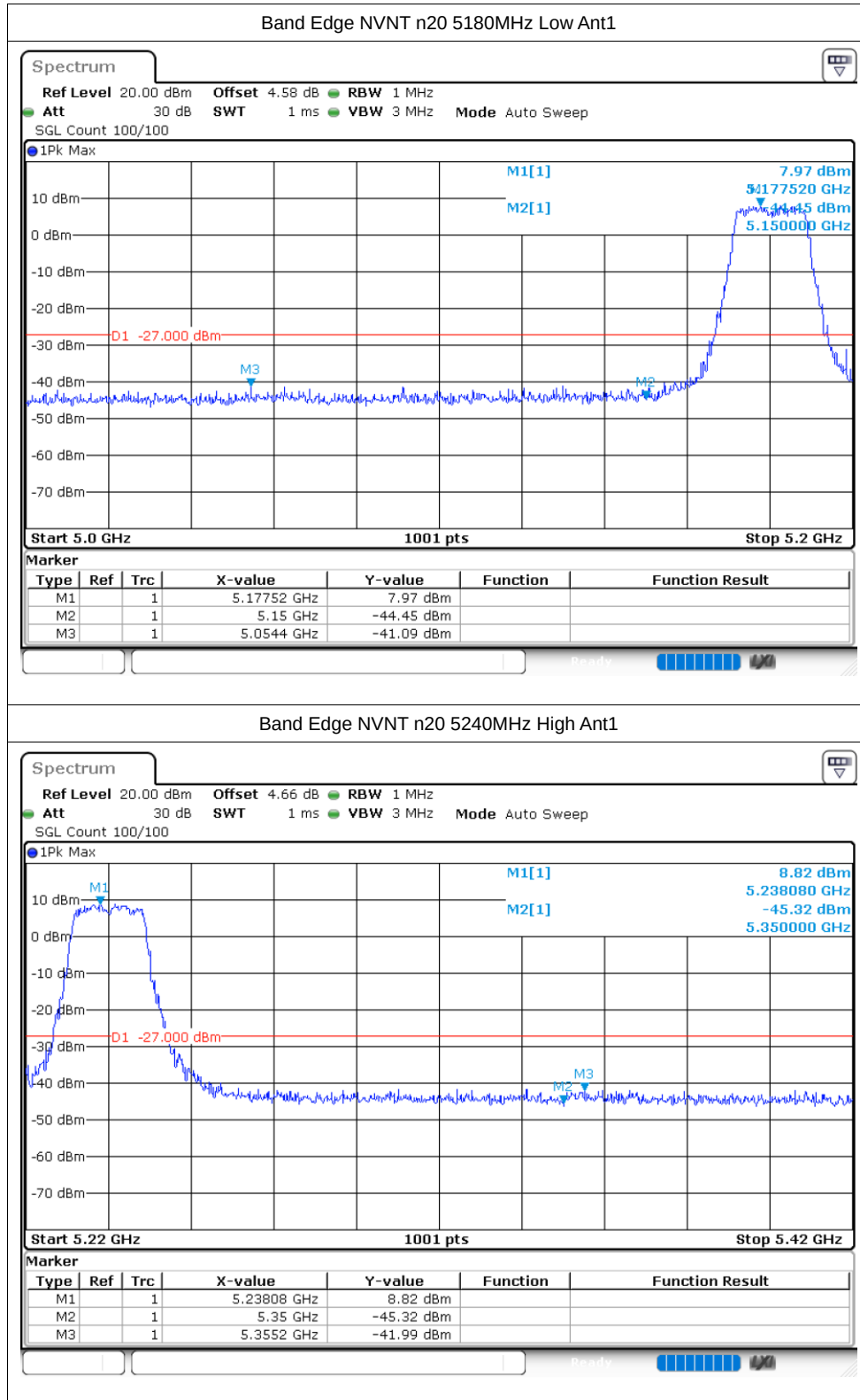
Test Graphs

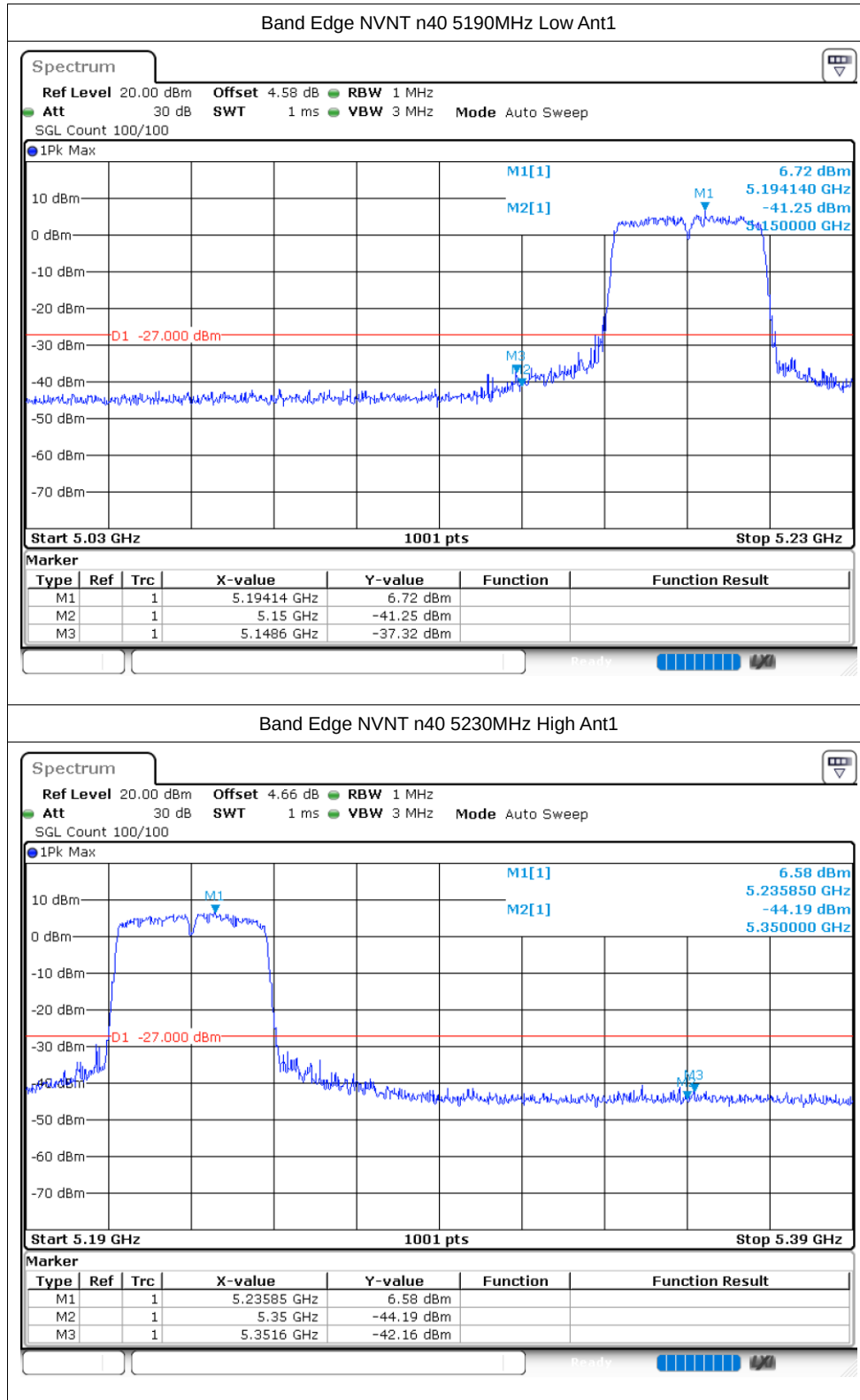
Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1







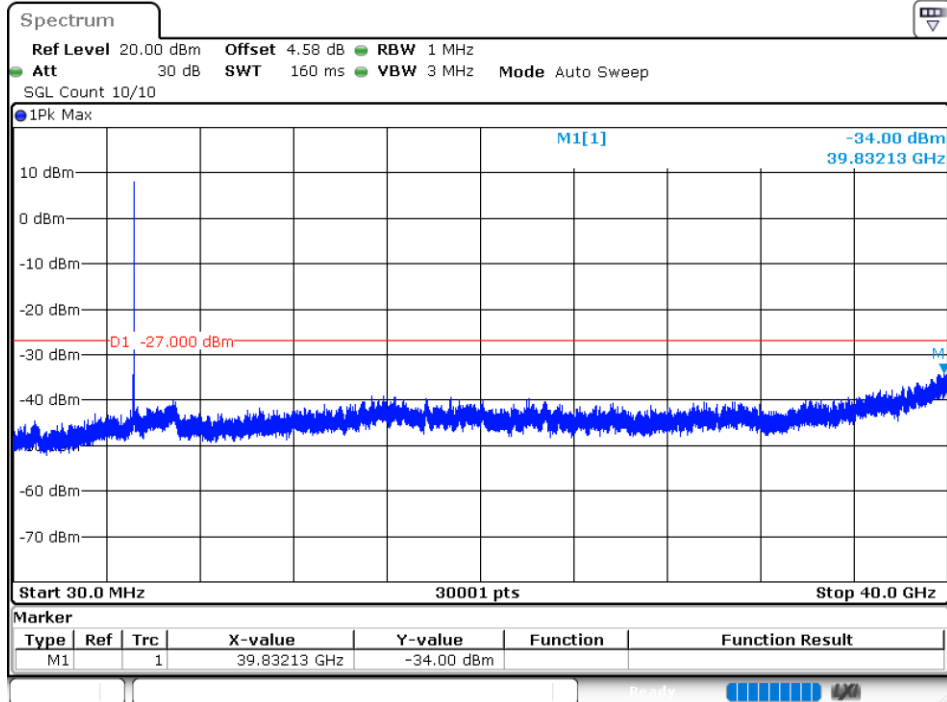
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-34	-27	Pass
NVNT	a	5200	Ant1	-33.57	-27	Pass
NVNT	a	5240	Ant1	-34.05	-27	Pass
NVNT	n20	5180	Ant1	-33.92	-27	Pass
NVNT	n20	5200	Ant1	-32.75	-27	Pass
NVNT	n20	5240	Ant1	-34.03	-27	Pass
NVNT	n40	5190	Ant1	-33.73	-27	Pass
NVNT	n40	5230	Ant1	-33.98	-27	Pass

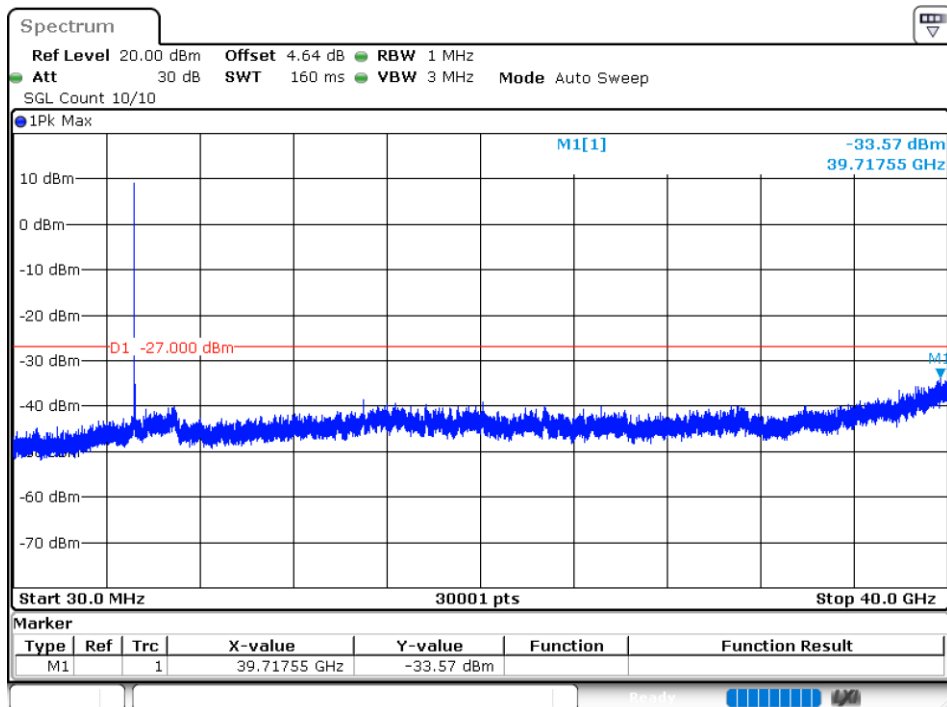
Note: This test has increased antenna gain .

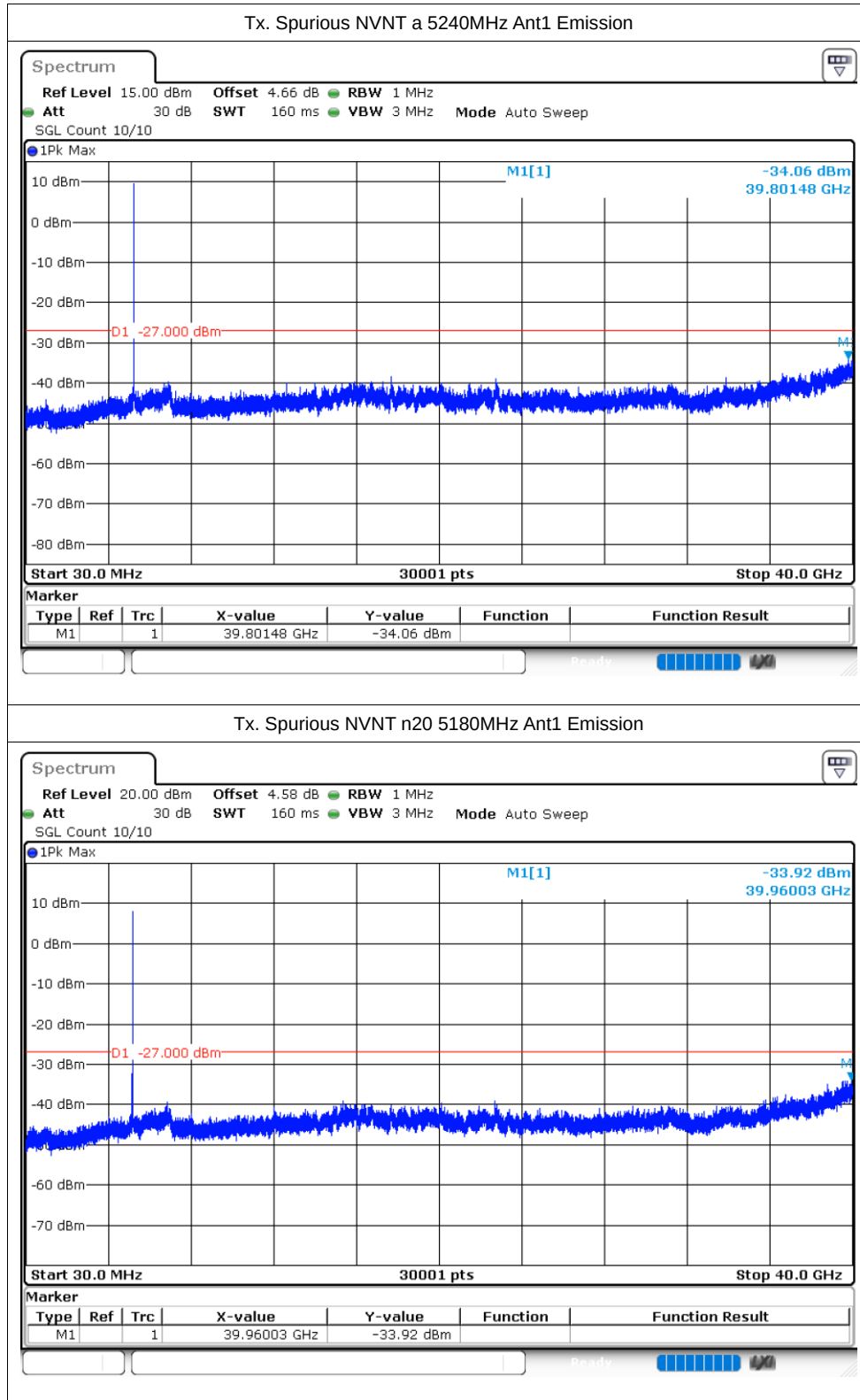
Test Graphs

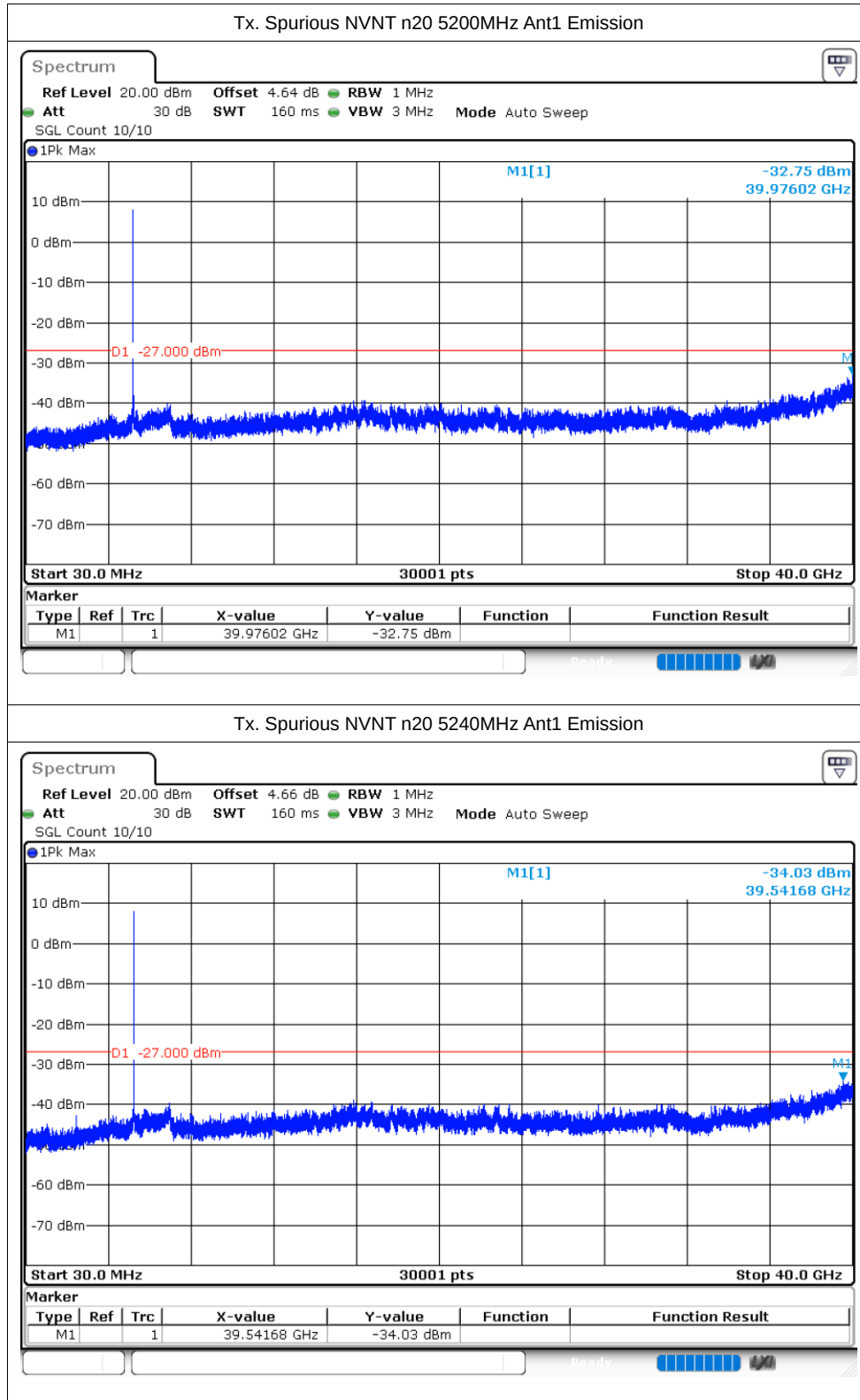
Tx. Spurious NVNT a 5180MHz Ant1 Emission

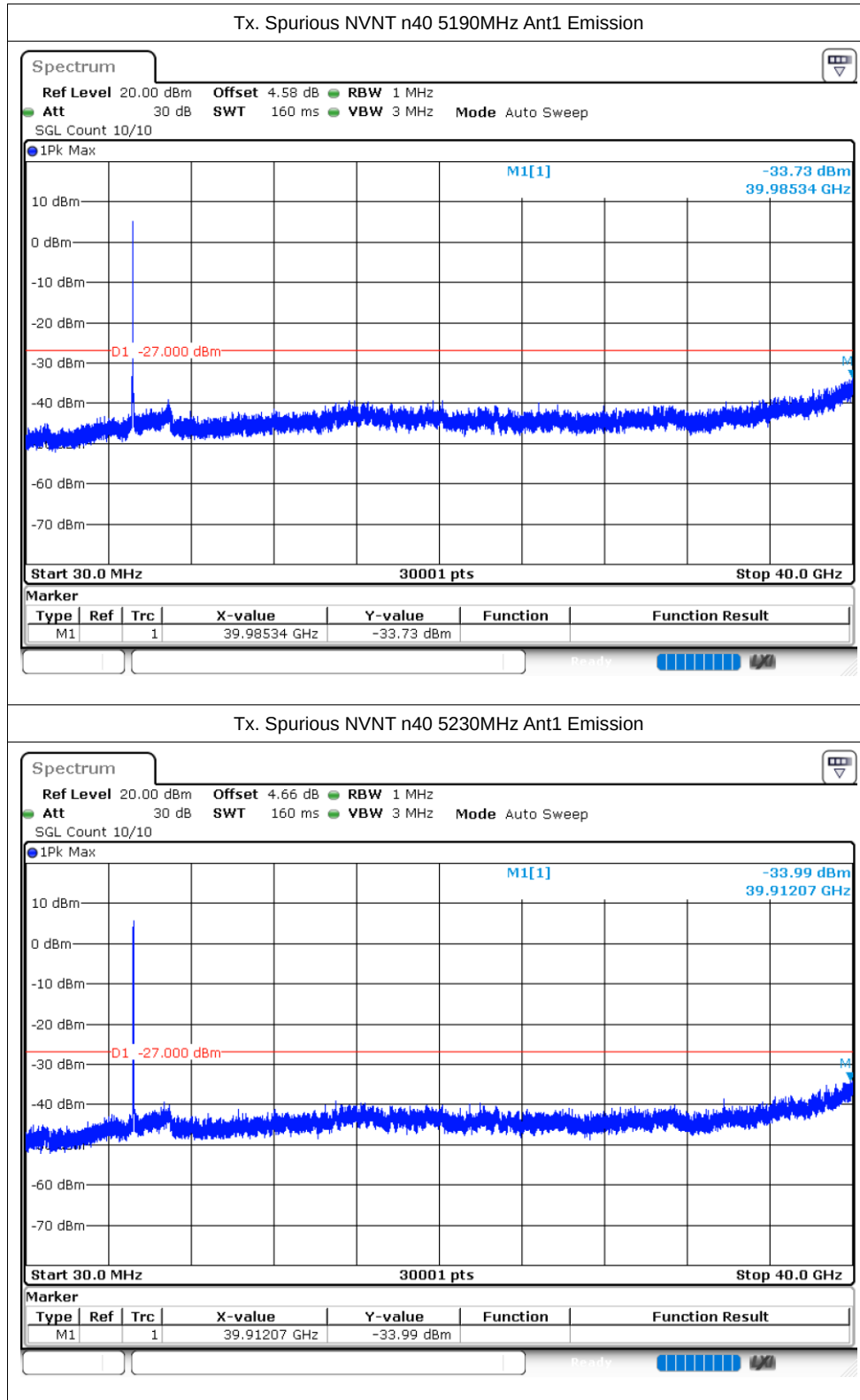


Tx. Spurious NVNT a 5200MHz Ant1 Emission









5.3G WIFI

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	94.6	0.24	0.48
NVNT	a	5280	Ant1	94.48	0.25	0.49
NVNT	a	5320	Ant1	94.47	0.25	0.49
NVNT	n20	5260	Ant1	94.24	0.26	0.52
NVNT	n20	5280	Ant1	94.12	0.26	0.52
NVNT	n20	5320	Ant1	94.12	0.26	0.52
NVNT	n40	5270	Ant1	88.84	0.51	1.06
NVNT	n40	5310	Ant1	88.84	0.51	1.05

Test Graphs

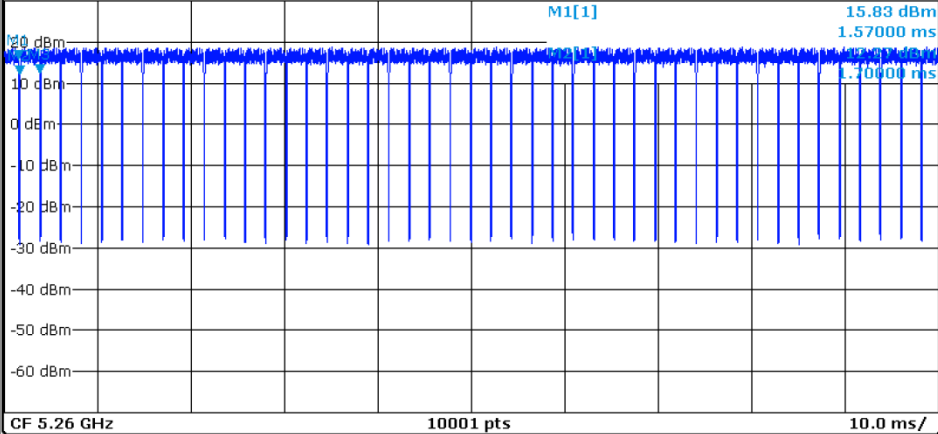
Duty Cycle NVNT a 5260MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.06 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	1.57 ms	15.83 dBm		
M2		1	1.7 ms	12.27 dBm		
M3		1	3.77 ms	12.43 dBm		

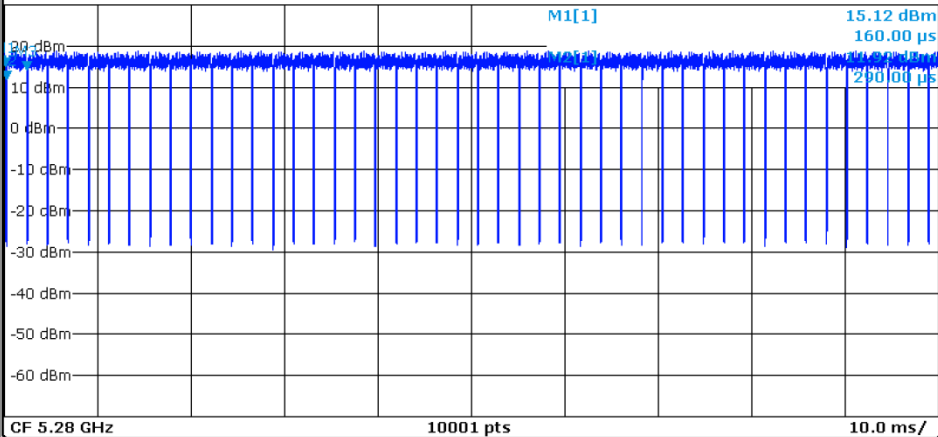
Duty Cycle NVNT a 5280MHz Ant1

Spectrum

Ref Level 30.00 dBm Offset 4.08 dB RBW 10 MHz
Att 40 dB SWT 100 ms VBW 10 MHz

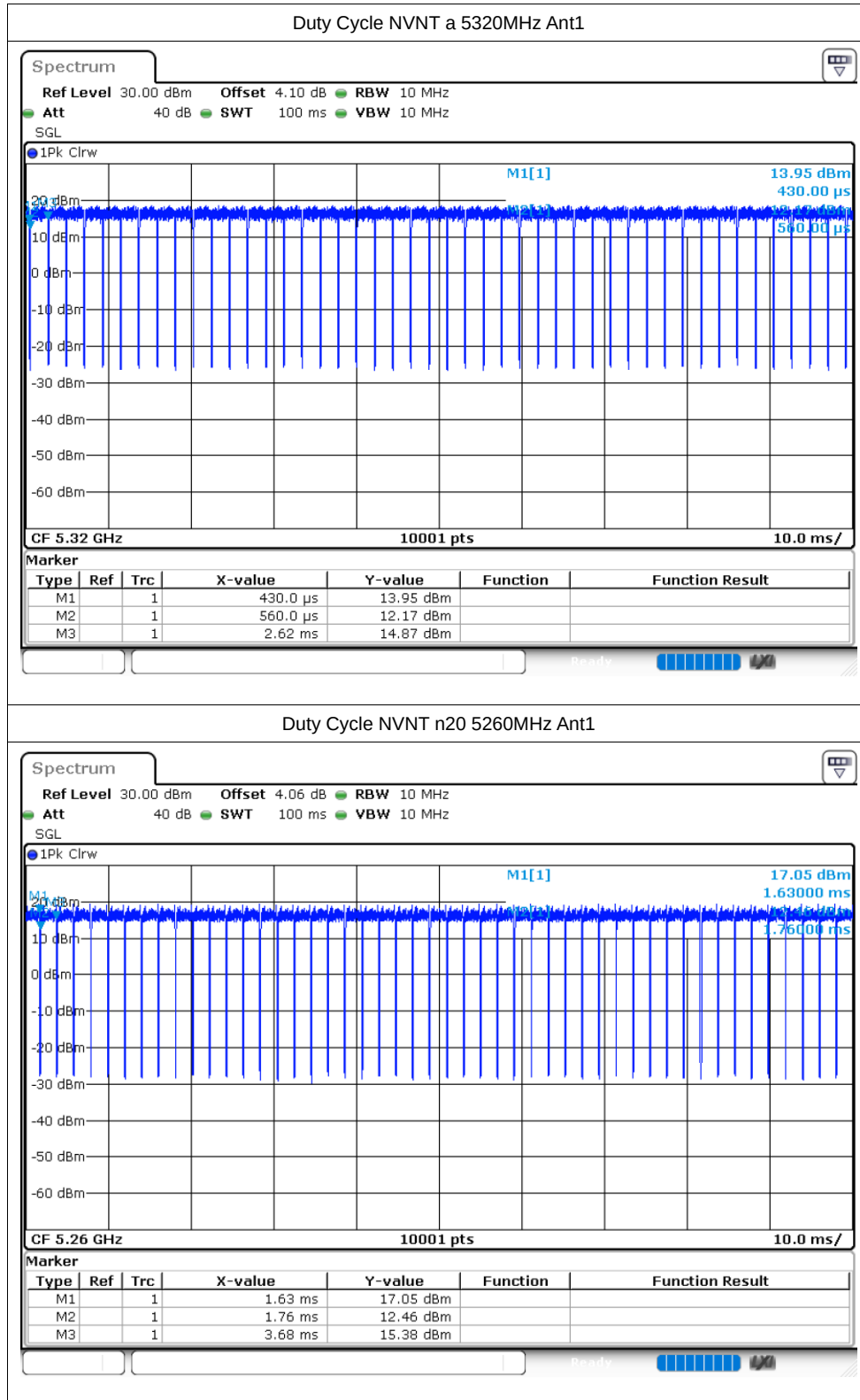
SGL

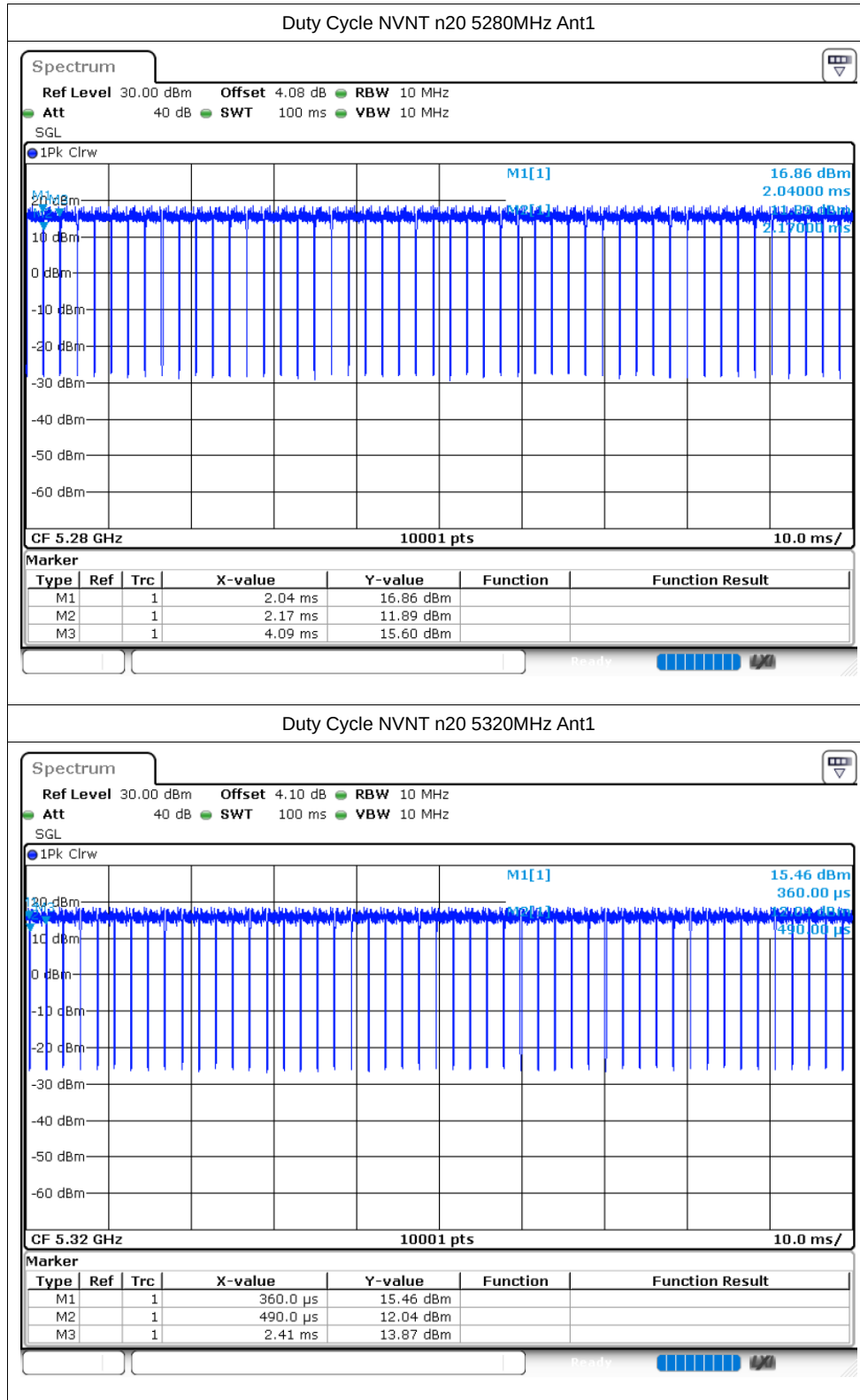
1Pk Clrw

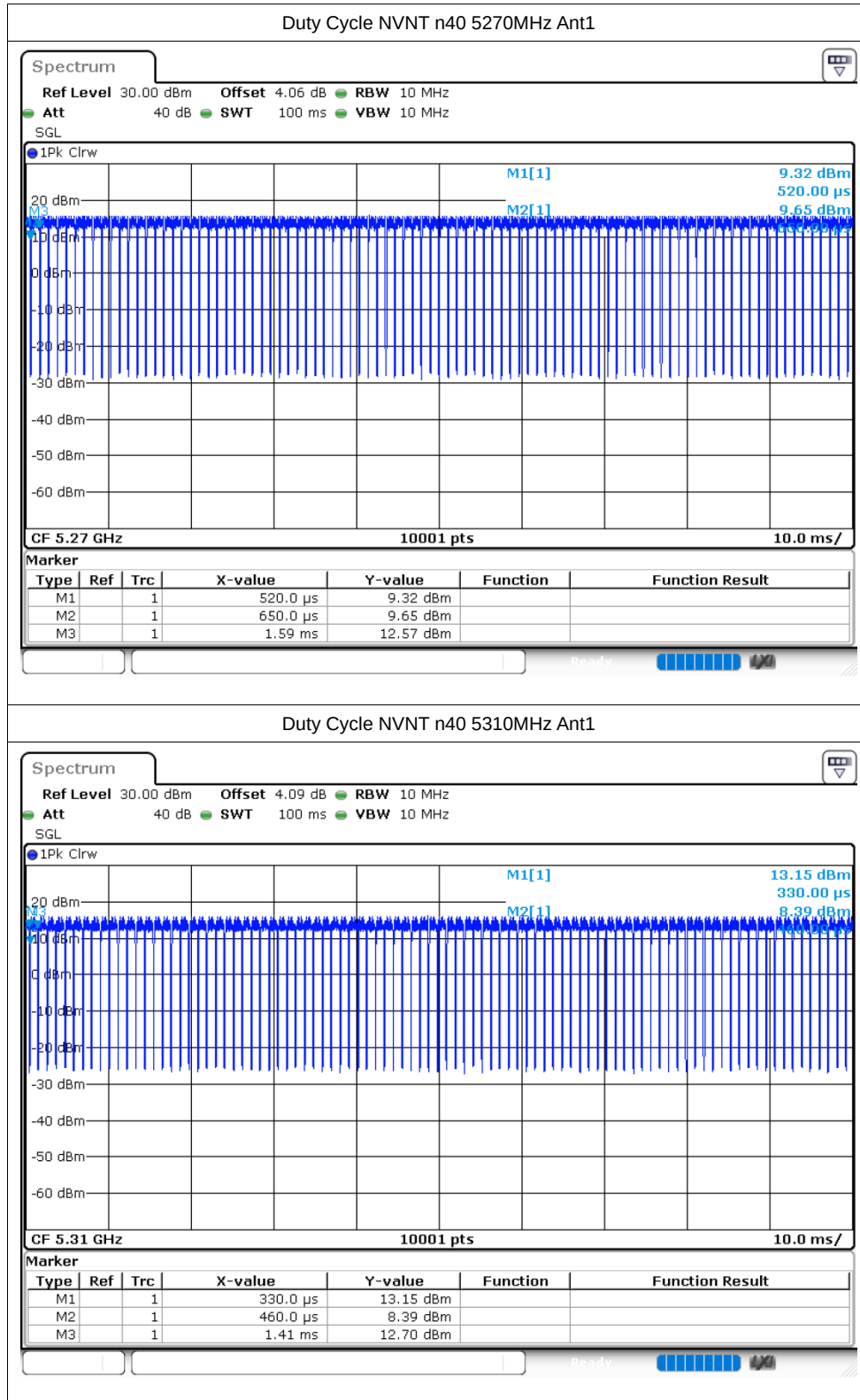


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	160.0 μs	15.12 dBm		
M2		1	290.0 μs	11.92 dBm		
M3		1	2.35 ms	14.27 dBm		







Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	12.54	24	Pass
NVNT	a	5280	Ant1	11.94	24	Pass
NVNT	a	5320	Ant1	12.88	24	Pass
NVNT	n20	5260	Ant1	12.56	24	Pass
NVNT	n20	5280	Ant1	11.99	24	Pass
NVNT	n20	5320	Ant1	12.63	24	Pass
NVNT	n40	5270	Ant1	12.69	24	Pass
NVNT	n40	5310	Ant1	12.58	24	Pass

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	20.715	Pass
NVNT	a	5280	Ant1	20.529	Pass
NVNT	a	5320	Ant1	21.072	Pass
NVNT	n20	5260	Ant1	21.462	Pass
NVNT	n20	5280	Ant1	21.42	Pass
NVNT	n20	5320	Ant1	21.69	Pass
NVNT	n40	5270	Ant1	39.474	Pass
NVNT	n40	5310	Ant1	39.132	Pass

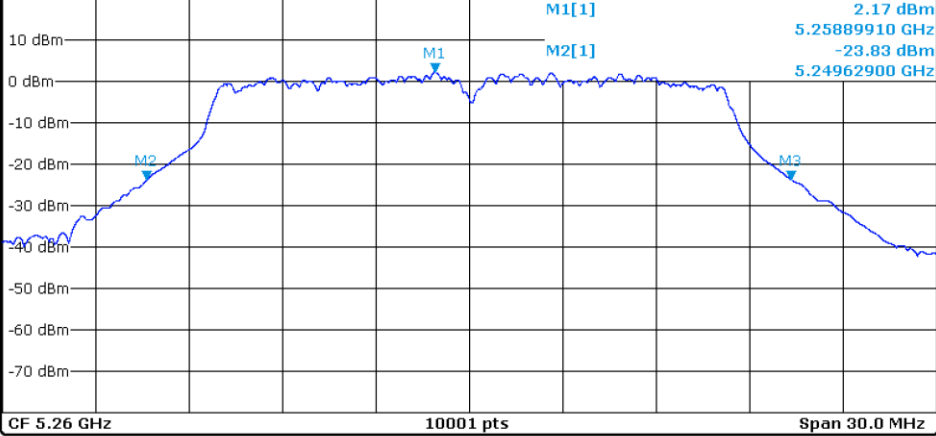
Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.06 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

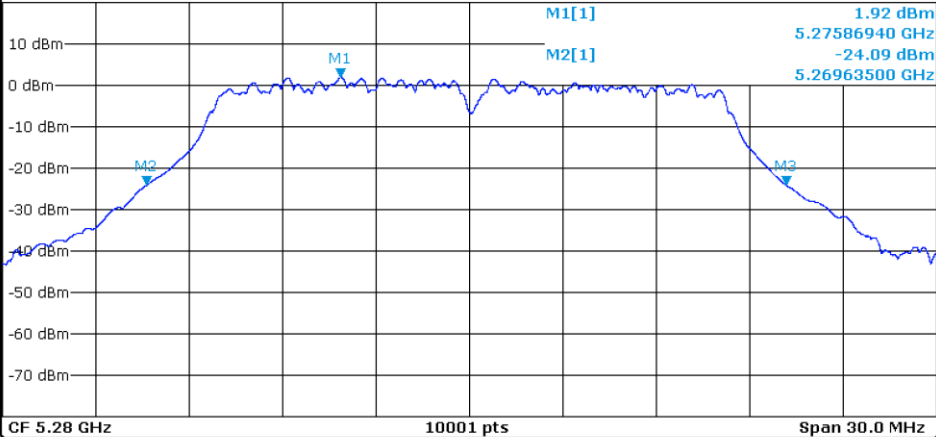
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.2588991 GHz	2.17 dBm		
M2	1		5.249629 GHz	-23.83 dBm		
M3	1		5.270344 GHz	-23.83 dBm		

-26dB Bandwidth NVNT a 5280MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 4.08 dB RBW 300 kHz
Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
SGL Count 100/100

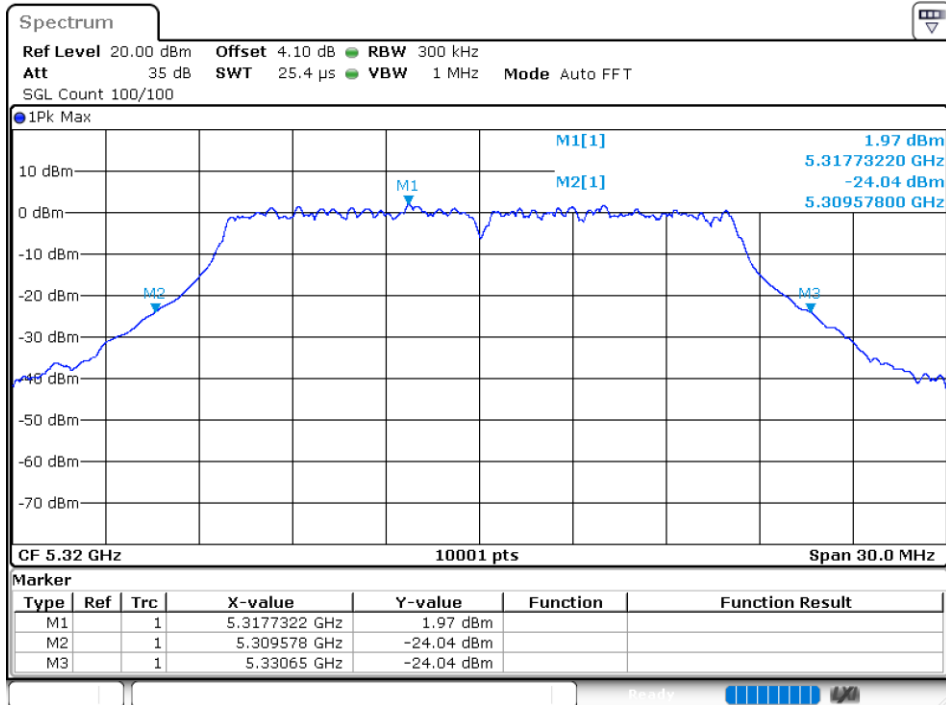
1Pk Max



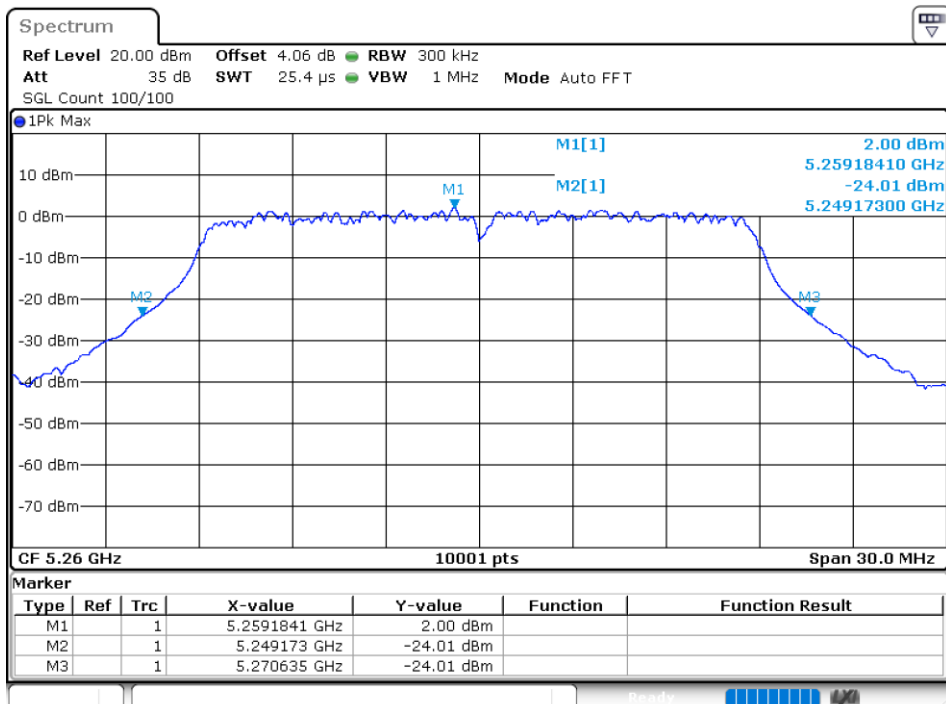
Marker

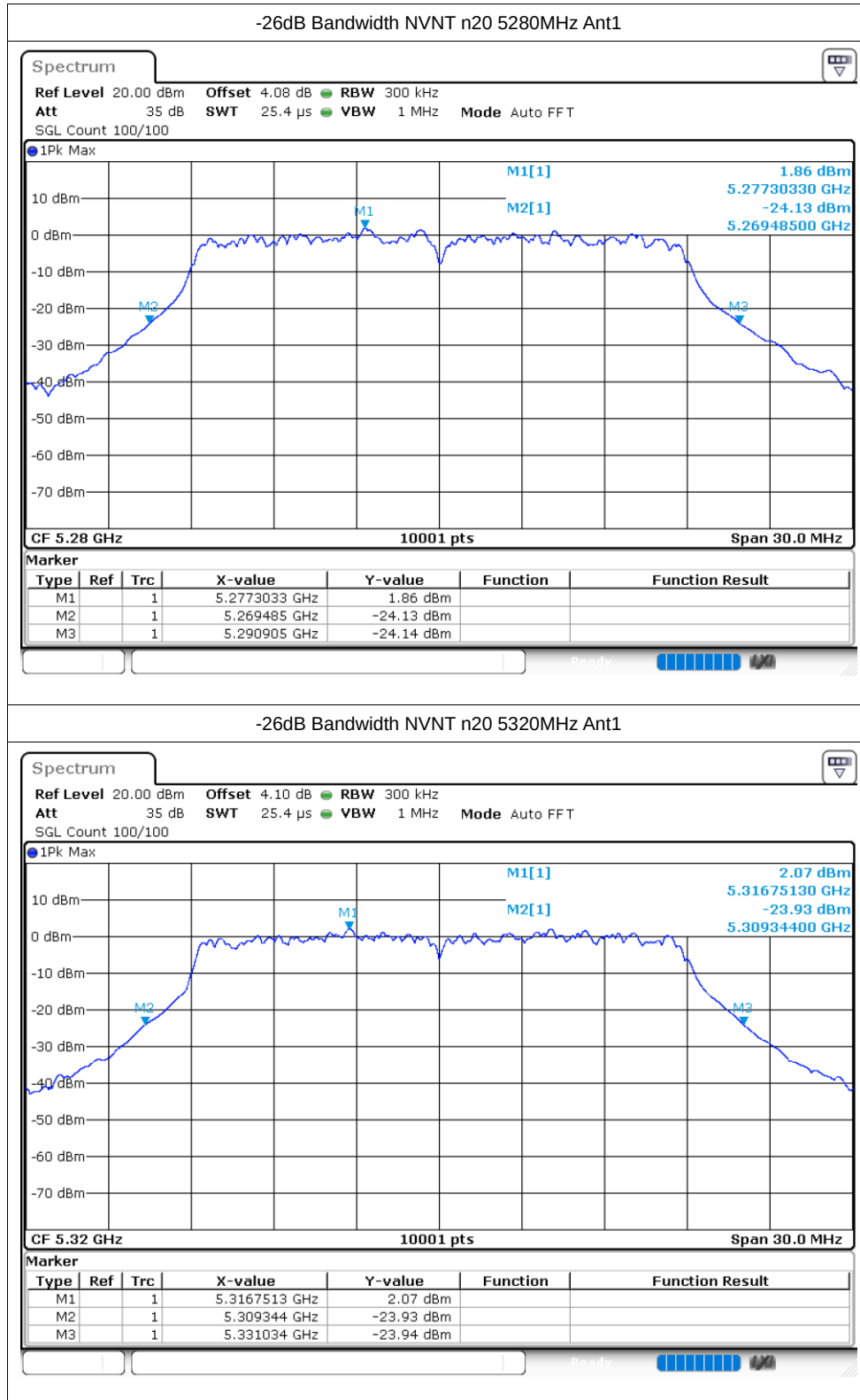
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.2758694 GHz	1.92 dBm		
M2	1		5.269635 GHz	-24.09 dBm		
M3	1		5.290164 GHz	-24.09 dBm		

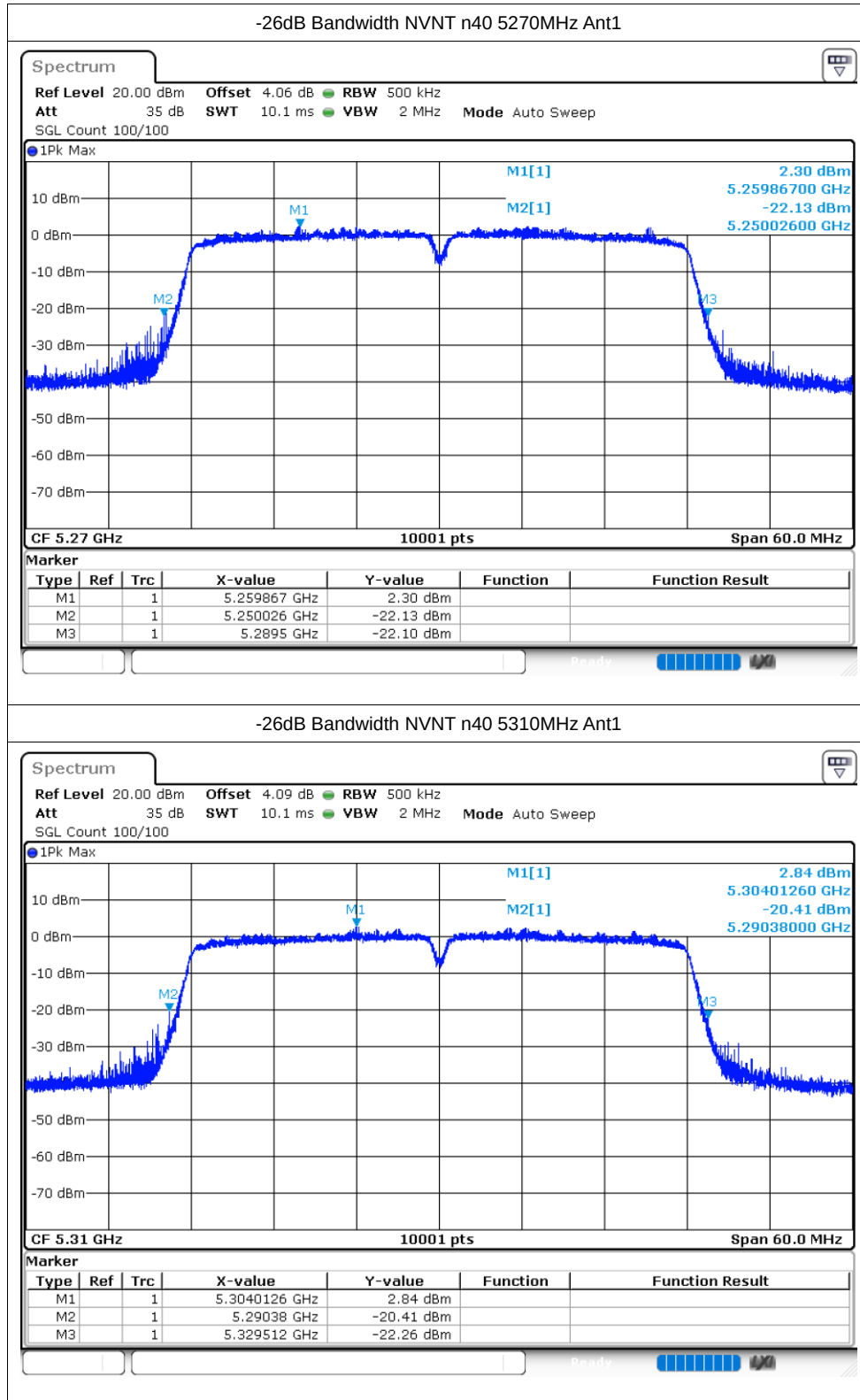
-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1





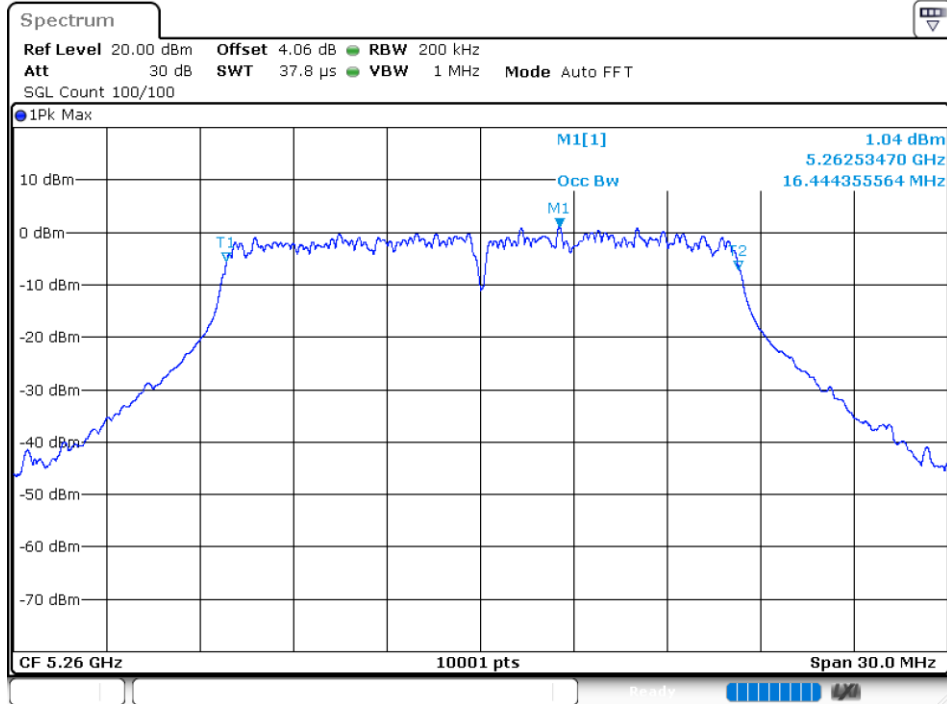


Occupied Channel Bandwidth

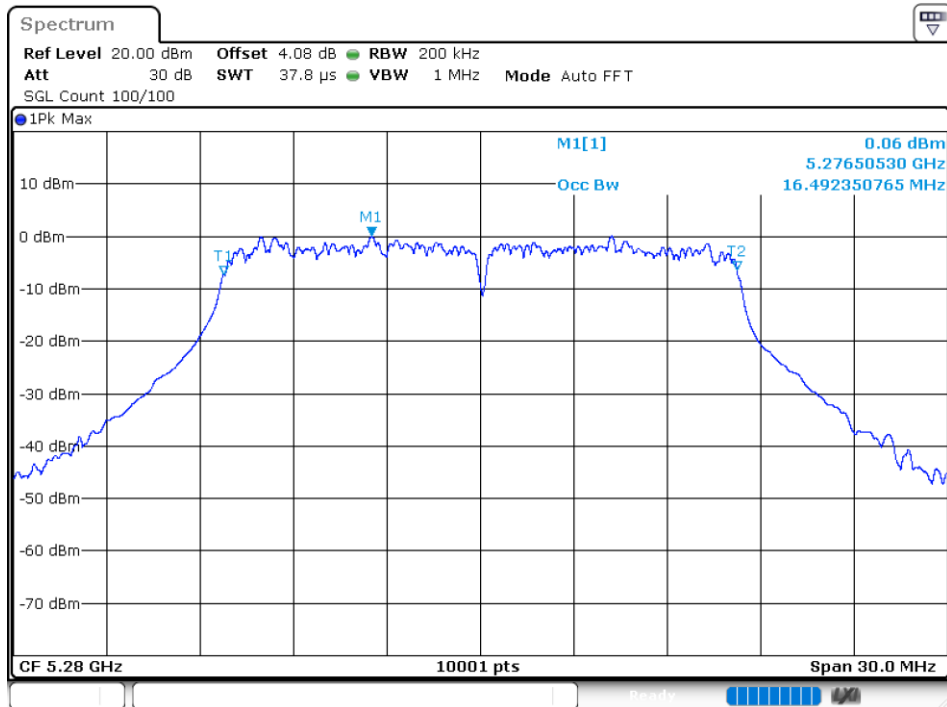
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.444
NVNT	a	5280	Ant1	16.492
NVNT	a	5320	Ant1	16.711
NVNT	n20	5260	Ant1	17.629
NVNT	n20	5280	Ant1	17.68
NVNT	n20	5320	Ant1	17.644
NVNT	n40	5270	Ant1	35.792
NVNT	n40	5310	Ant1	35.792

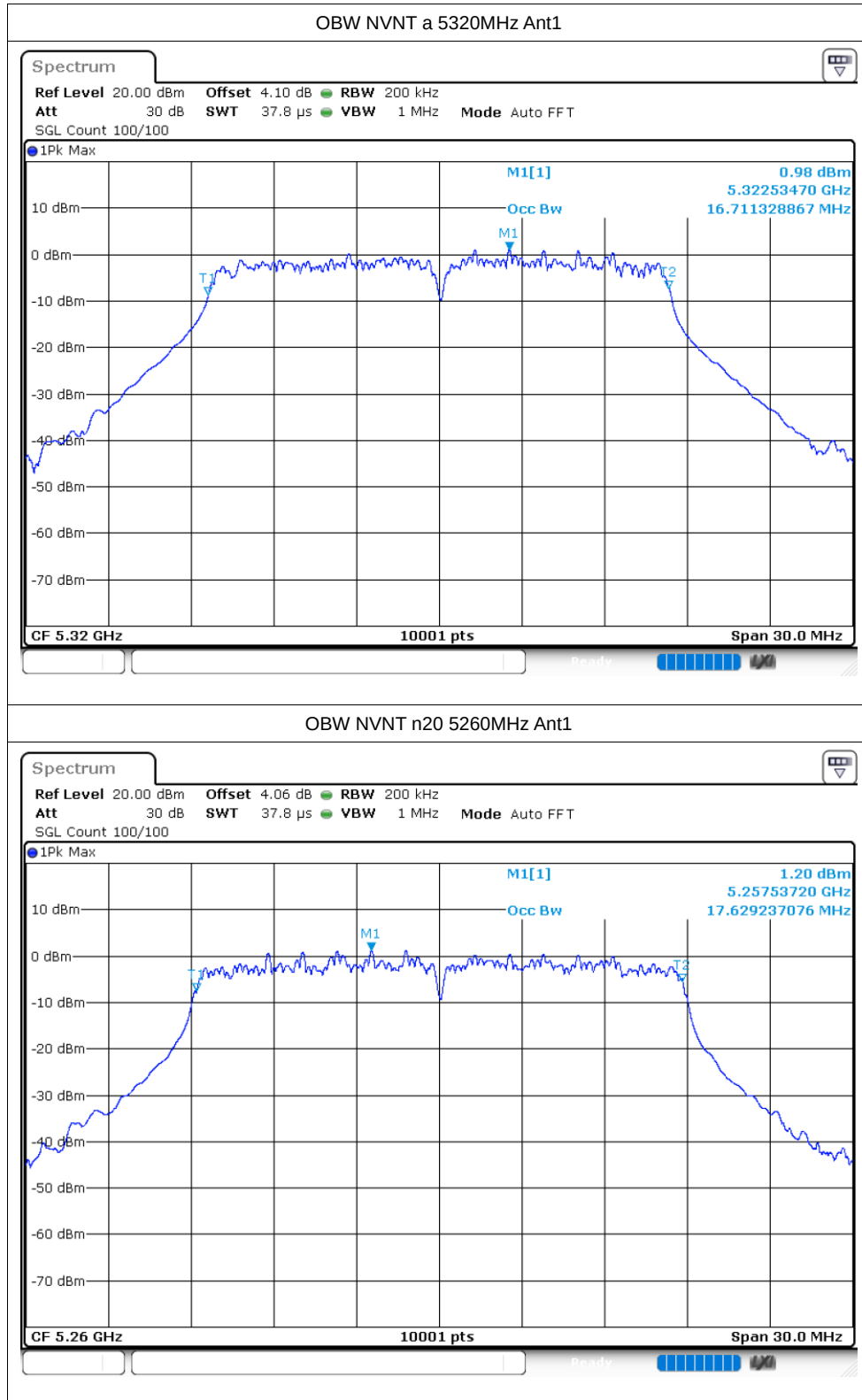
Test Graphs

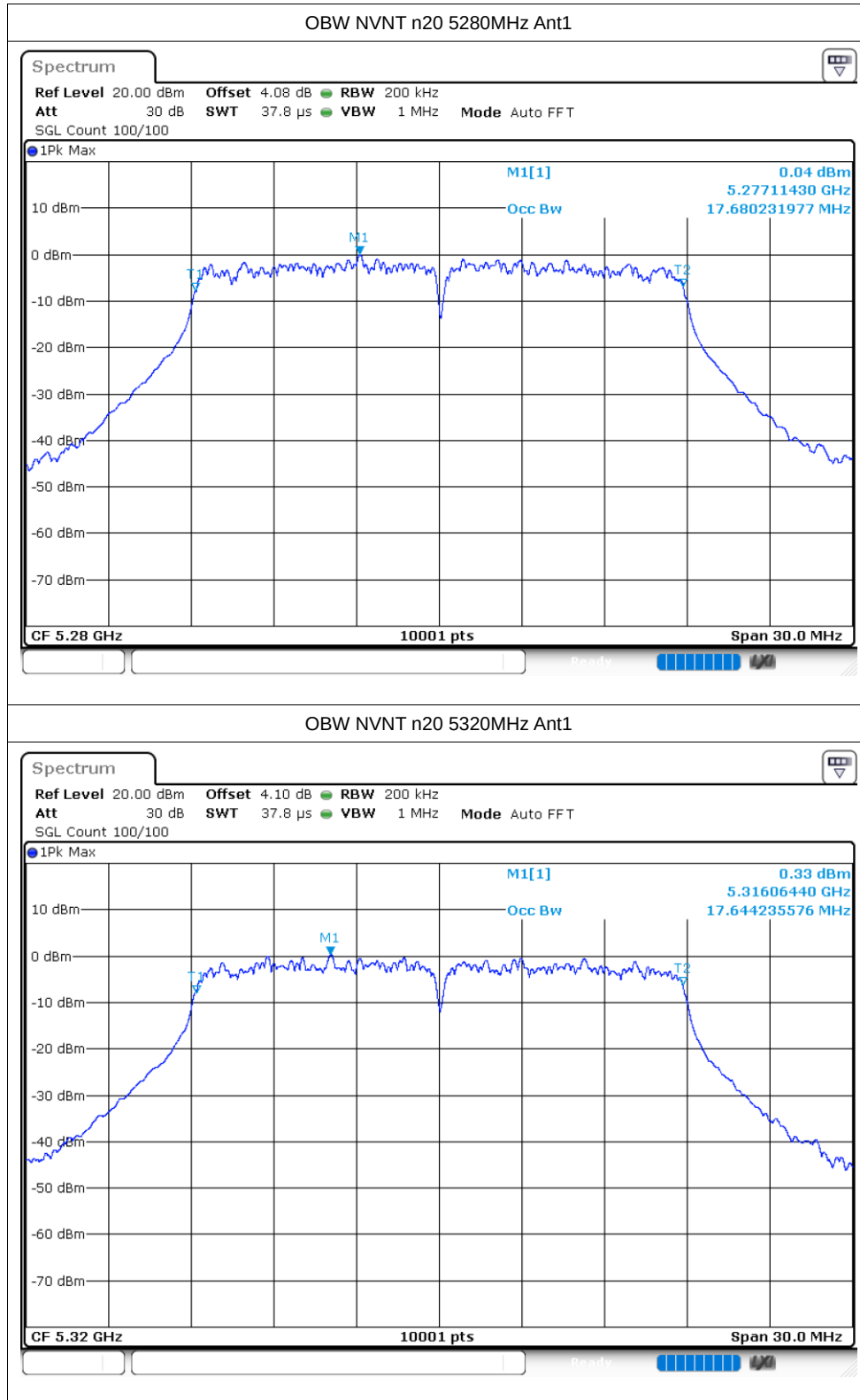
OBW NVNT a 5260MHz Ant1

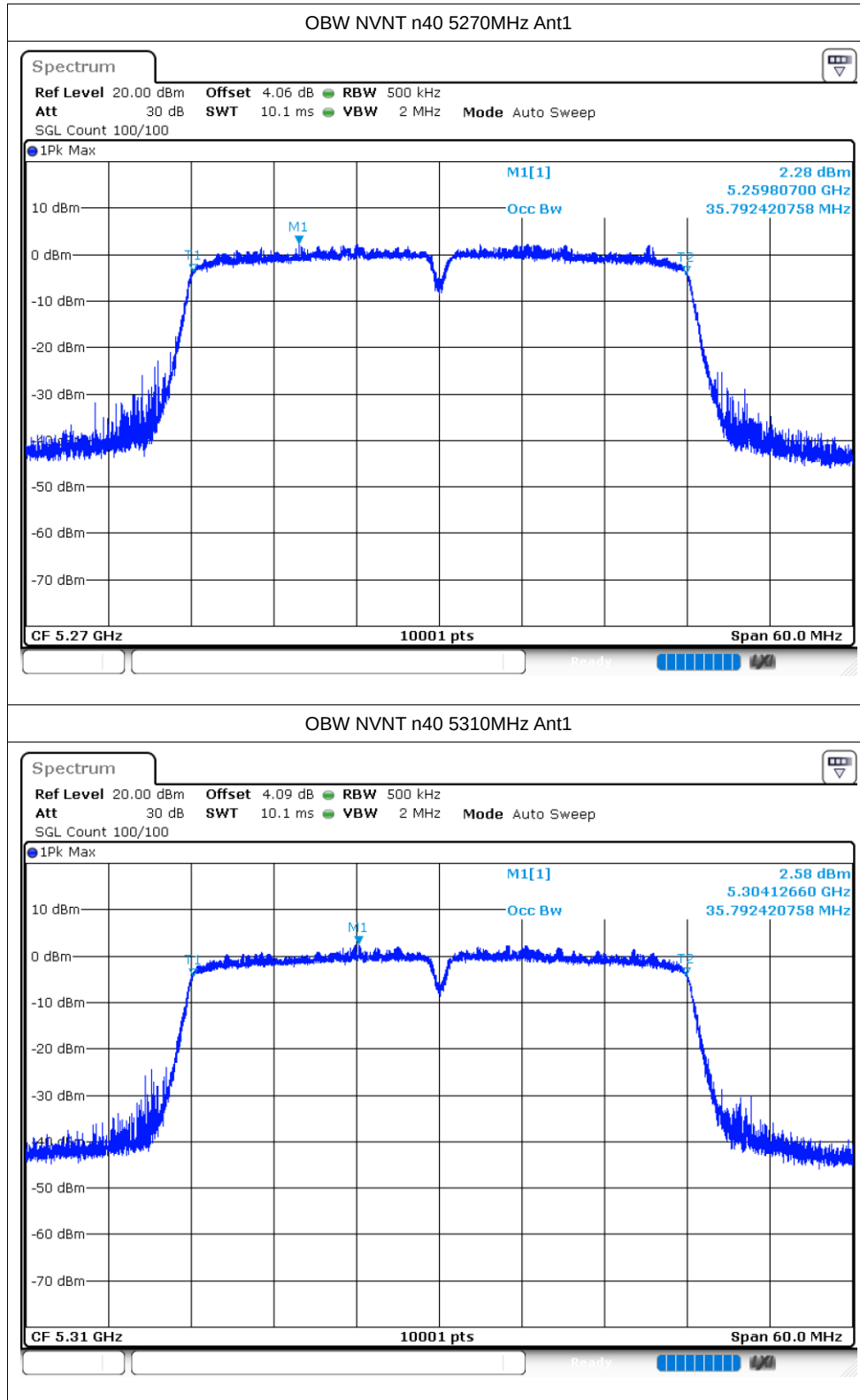


OBW NVNT a 5280MHz Ant1







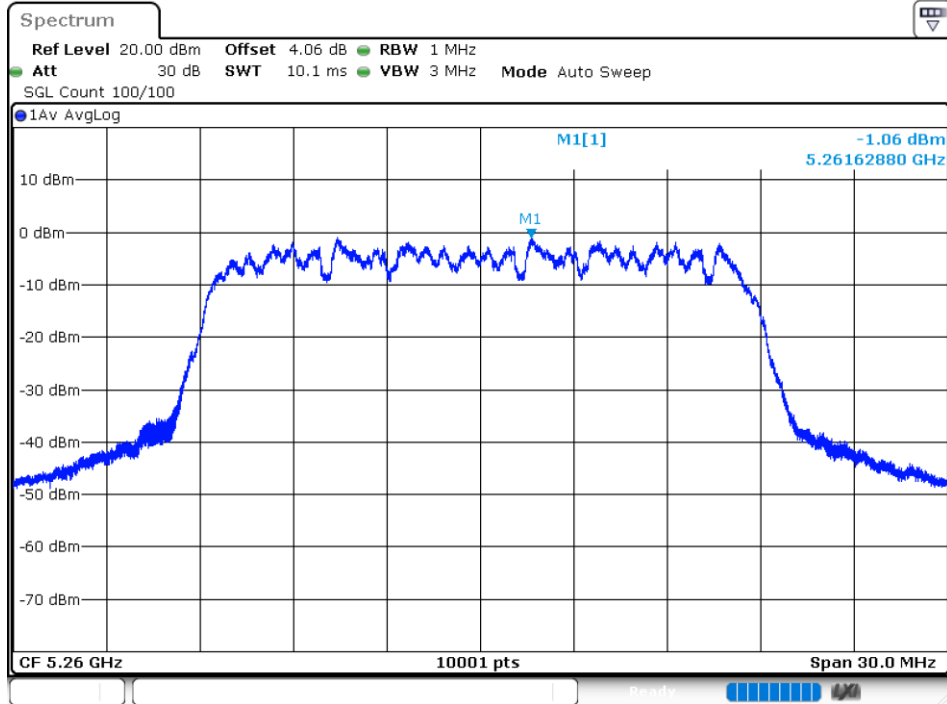


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-1.06	0.24	-0.82	11	Pass
NVNT	a	5280	Ant1	-2.01	0.25	-1.76	11	Pass
NVNT	a	5320	Ant1	-1.78	0.25	-1.53	11	Pass
NVNT	n20	5260	Ant1	-2.11	0.26	-1.85	11	Pass
NVNT	n20	5280	Ant1	-3.1	0.26	-2.84	11	Pass
NVNT	n20	5320	Ant1	-1.5	0.26	-1.24	11	Pass
NVNT	n40	5270	Ant1	-7.36	0.51	-6.85	11	Pass
NVNT	n40	5310	Ant1	-8.28	0.51	-7.77	11	Pass

Test Graphs

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5280MHz Ant1

