

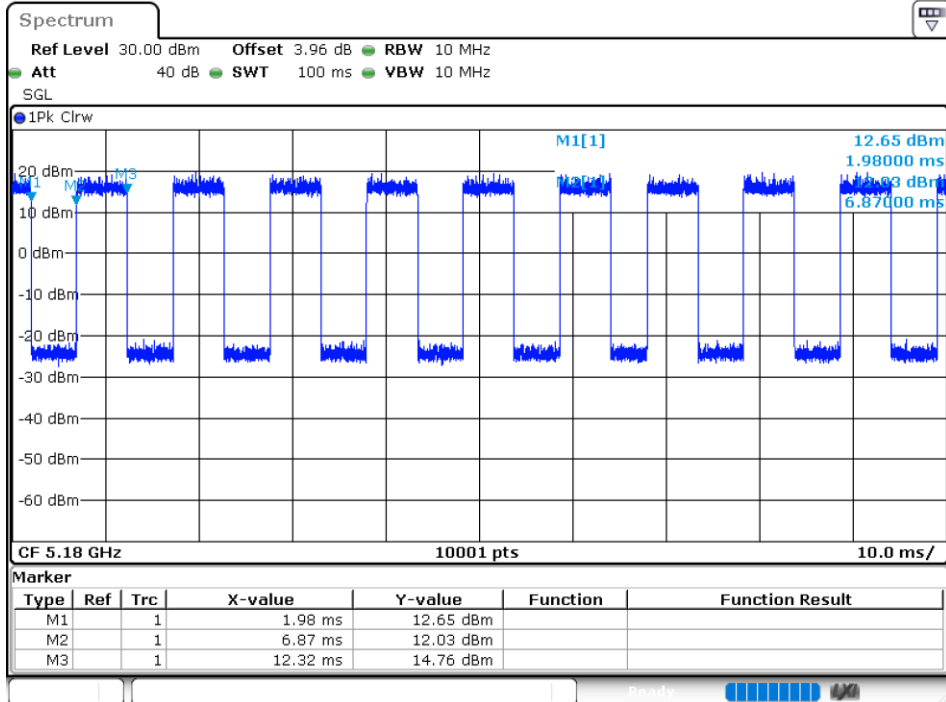
WIFI 5.2G

Duty Cycle

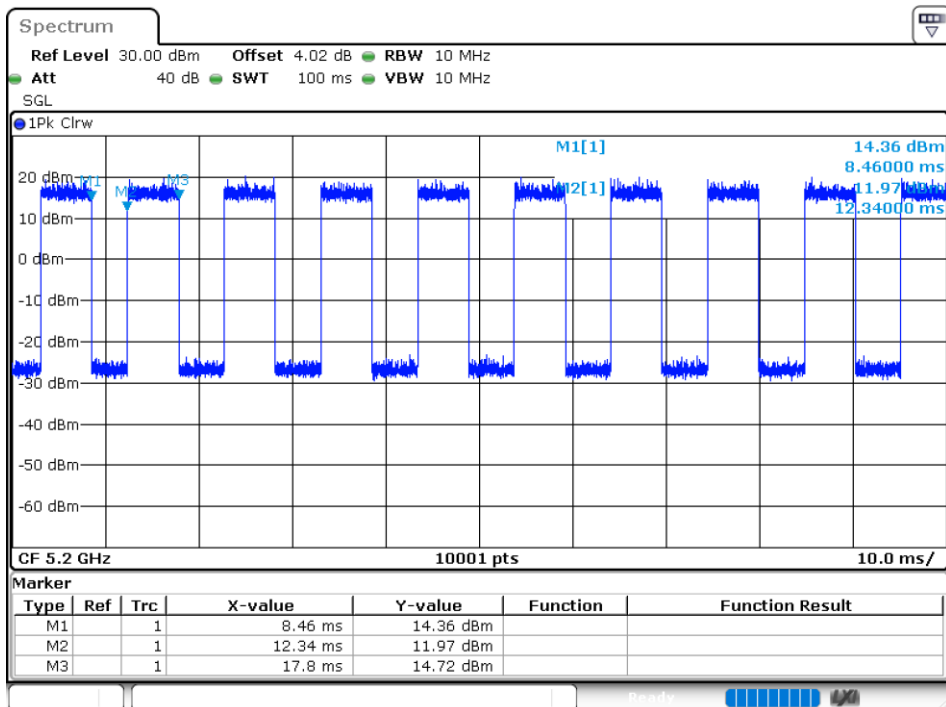
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	52.18	2.82	0.18
NVNT	a	5200	Ant1	54.08	2.67	0.18
NVNT	a	5240	Ant1	52.3	2.81	0.18
NVNT	n20	5180	Ant1	50.04	3.01	0.19
NVNT	n20	5200	Ant1	51.96	2.84	0.19
NVNT	n20	5240	Ant1	50.06	3	0.19
NVNT	n40	5190	Ant1	51.49	2.88	0.19
NVNT	n40	5230	Ant1	49.06	3.09	0.19
NVNT	ac20	5180	Ant1	50.13	3	0.19
NVNT	ac20	5200	Ant1	51.87	2.85	0.19
NVNT	ac20	5240	Ant1	53.56	2.71	0.19
NVNT	ac40	5190	Ant1	51.38	2.89	0.19
NVNT	ac40	5230	Ant1	51.14	2.91	0.19
NVNT	ac80	5210	Ant1	46.18	3.36	0.21

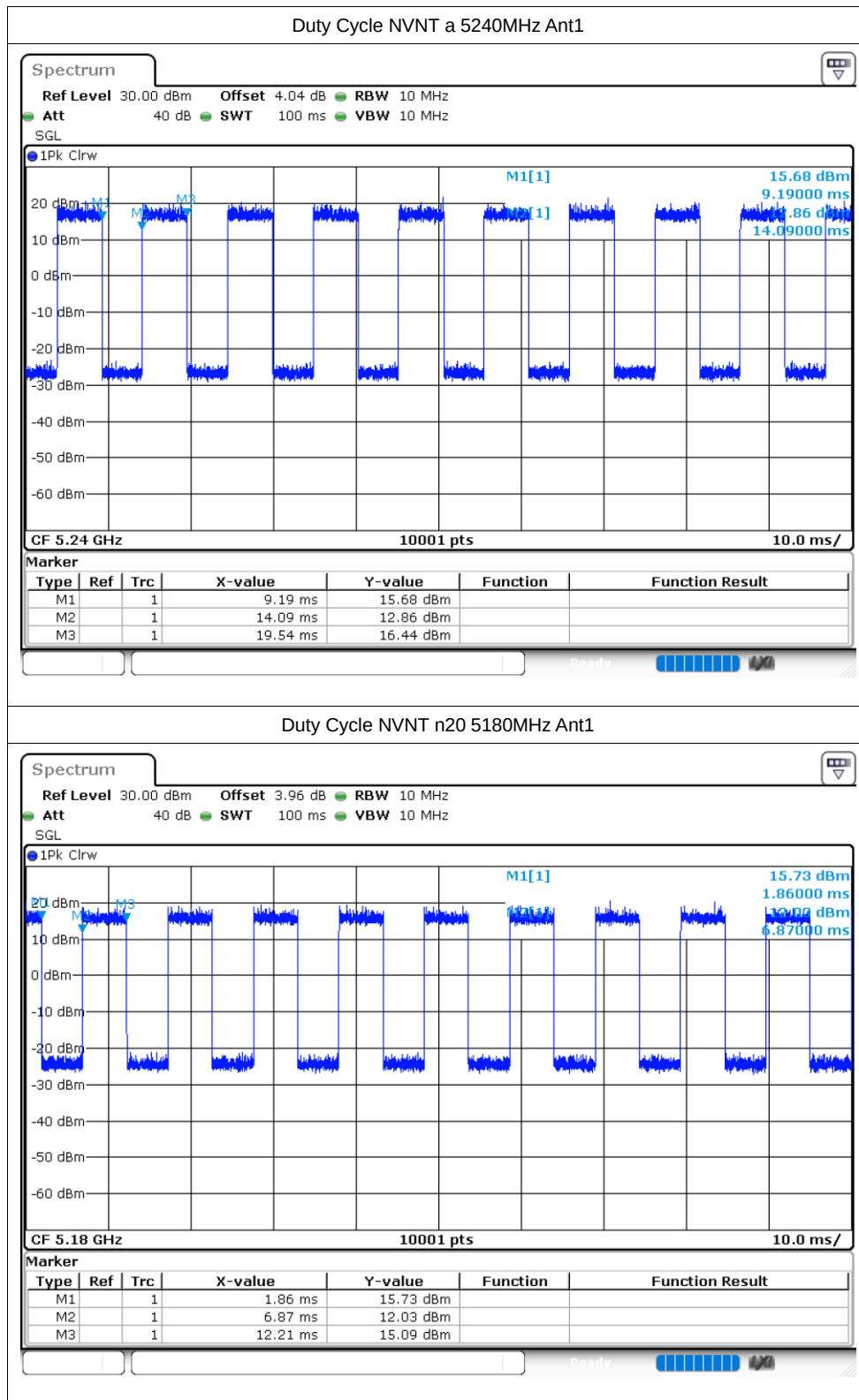
Test Graphs

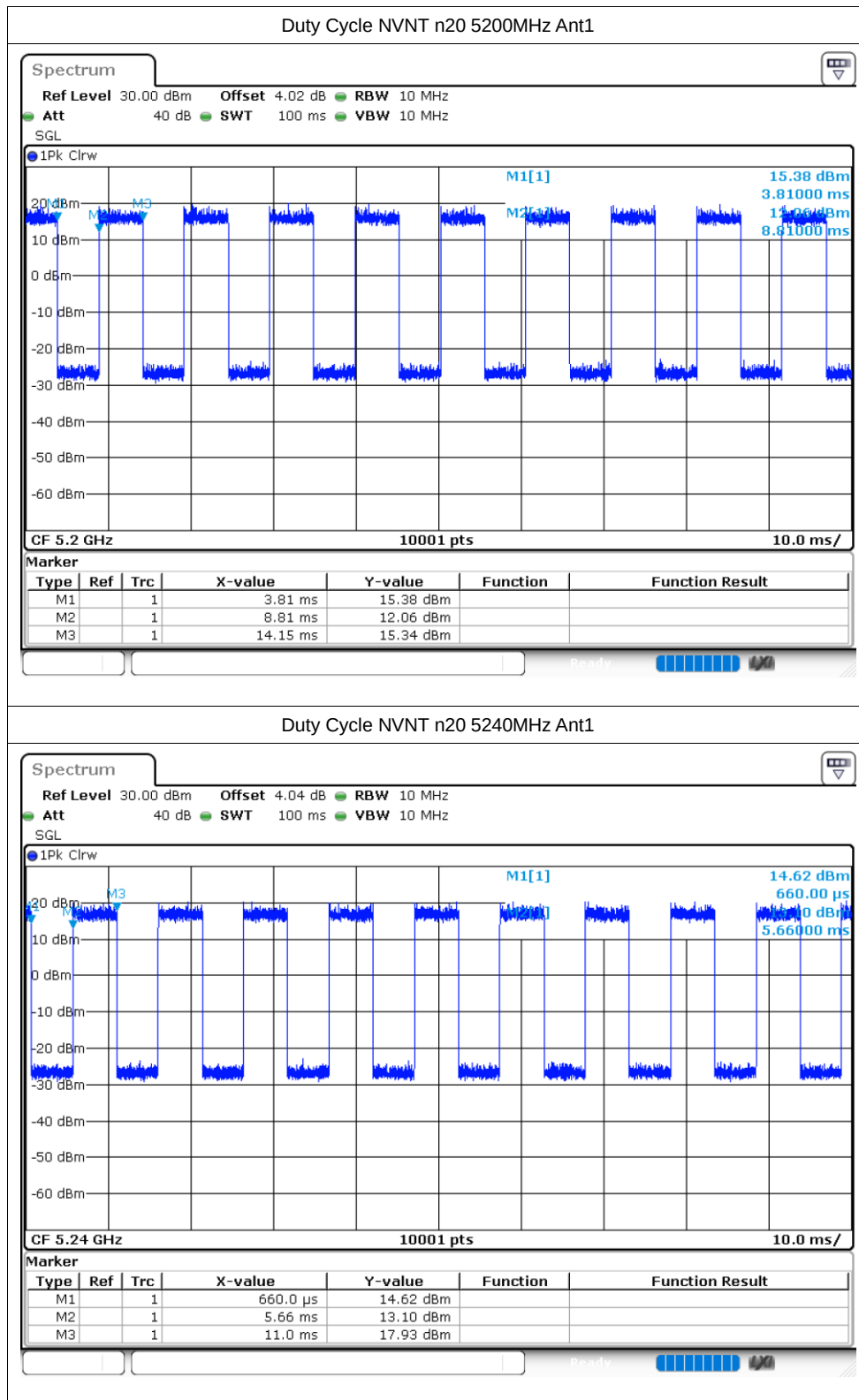
Duty Cycle NVNT a 5180MHz Ant1

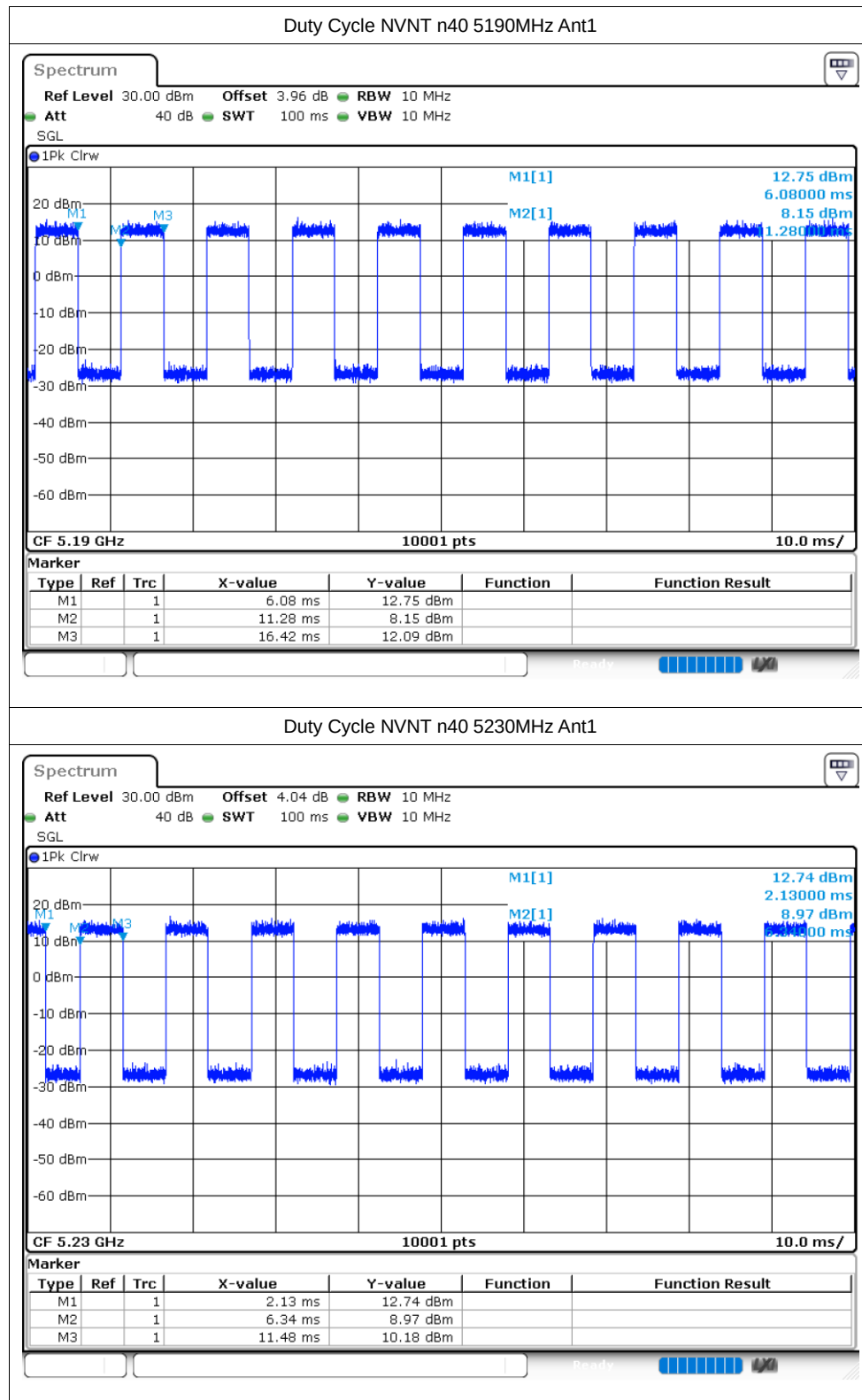


Duty Cycle NVNT a 5200MHz Ant1



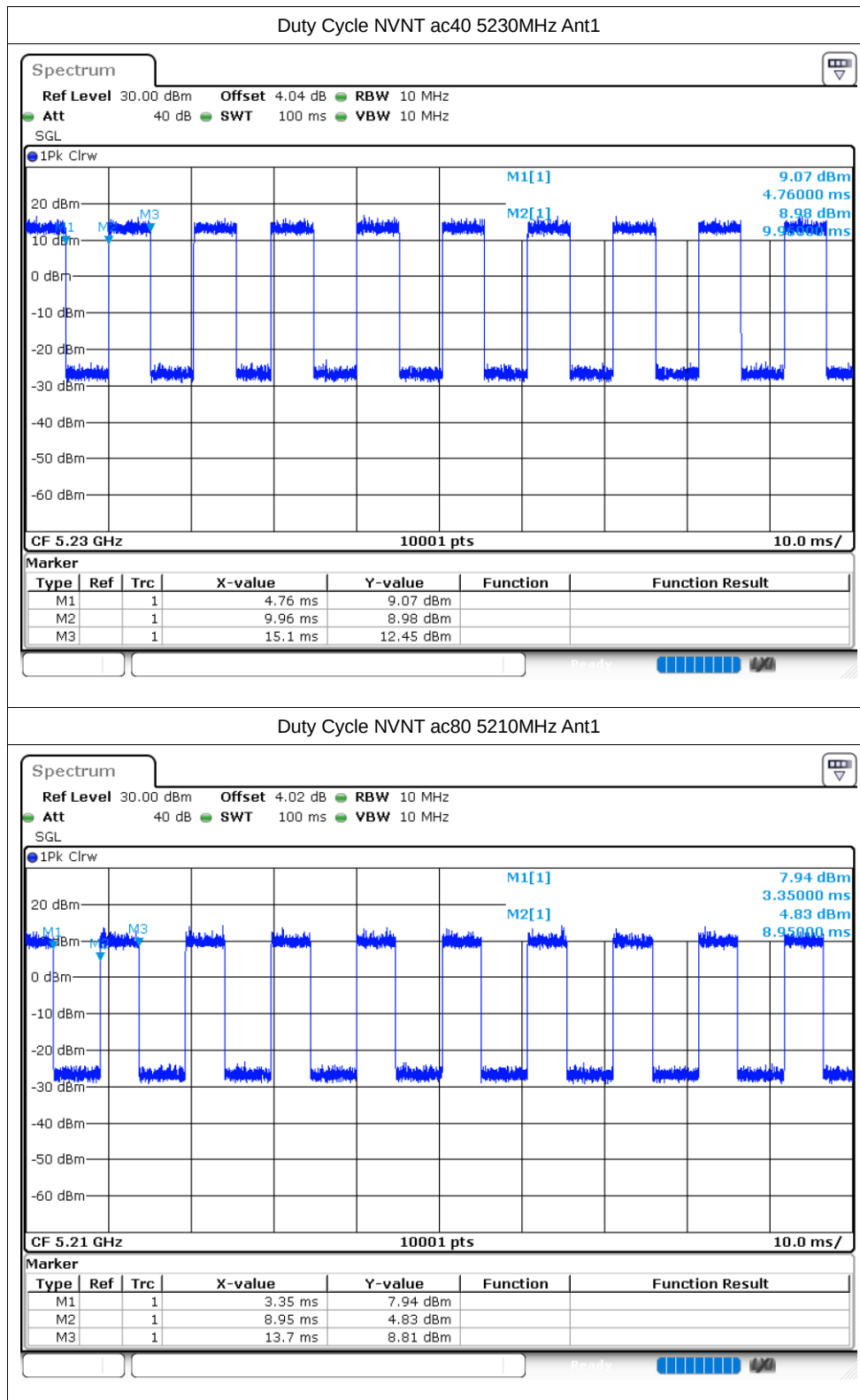












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.82	24	Pass
NVNT	a	5200	Ant1	12.69	24	Pass
NVNT	a	5240	Ant1	12.42	24	Pass
NVNT	n20	5180	Ant1	13.02	24	Pass
NVNT	n20	5200	Ant1	12.88	24	Pass
NVNT	n20	5240	Ant1	12.5	24	Pass
NVNT	n40	5190	Ant1	13.1	24	Pass
NVNT	n40	5230	Ant1	12.35	24	Pass
NVNT	ac20	5180	Ant1	13.01	24	Pass
NVNT	ac20	5200	Ant1	12.96	24	Pass
NVNT	ac20	5240	Ant1	12.49	24	Pass
NVNT	ac40	5190	Ant1	12.76	24	Pass
NVNT	ac40	5230	Ant1	12.32	24	Pass
NVNT	ac80	5210	Ant1	12.94	24	Pass

Note: The average power value already includes the duty cycle factor

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	21.144	Pass
NVNT	a	5200	Ant1	21.144	Pass
NVNT	a	5240	Ant1	21.648	Pass
NVNT	n20	5180	Ant1	21.789	Pass
NVNT	n20	5200	Ant1	21.744	Pass
NVNT	n20	5240	Ant1	21.828	Pass
NVNT	n40	5190	Ant1	40.806	Pass
NVNT	n40	5230	Ant1	41.028	Pass
NVNT	ac20	5180	Ant1	21.732	Pass
NVNT	ac20	5200	Ant1	21.588	Pass
NVNT	ac20	5240	Ant1	21.825	Pass
NVNT	ac40	5190	Ant1	41.016	Pass
NVNT	ac40	5230	Ant1	41.124	Pass
NVNT	ac80	5210	Ant1	80.82	Pass

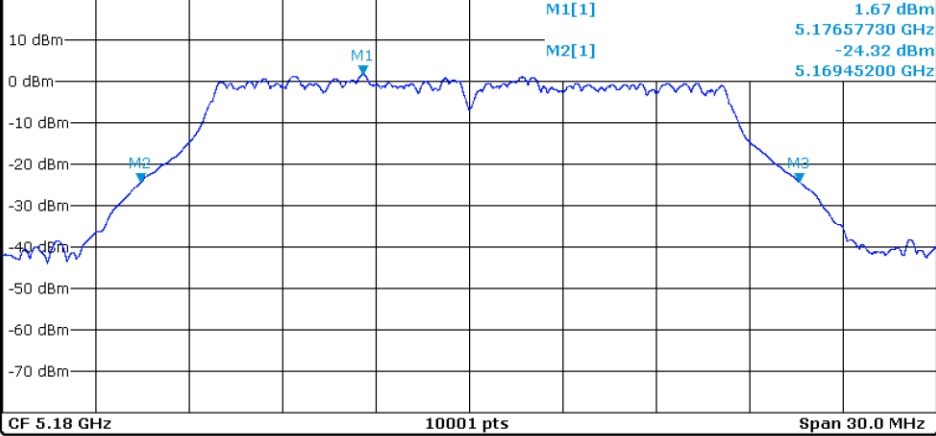
Test Graphs

-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

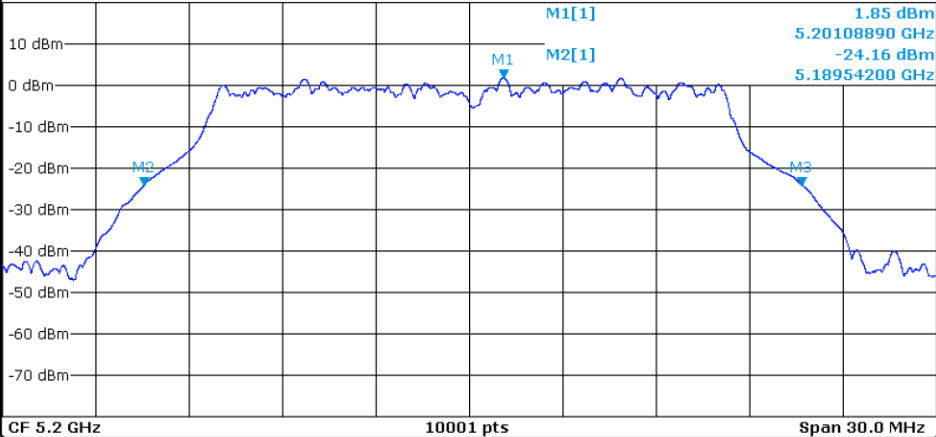
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1765773 GHz	1.67 dBm		
M2	1		5.169452 GHz	-24.32 dBm		
M3	1		5.190596 GHz	-24.32 dBm		

-26dB Bandwidth NVNT a 5200MHz Ant1

Spectrum

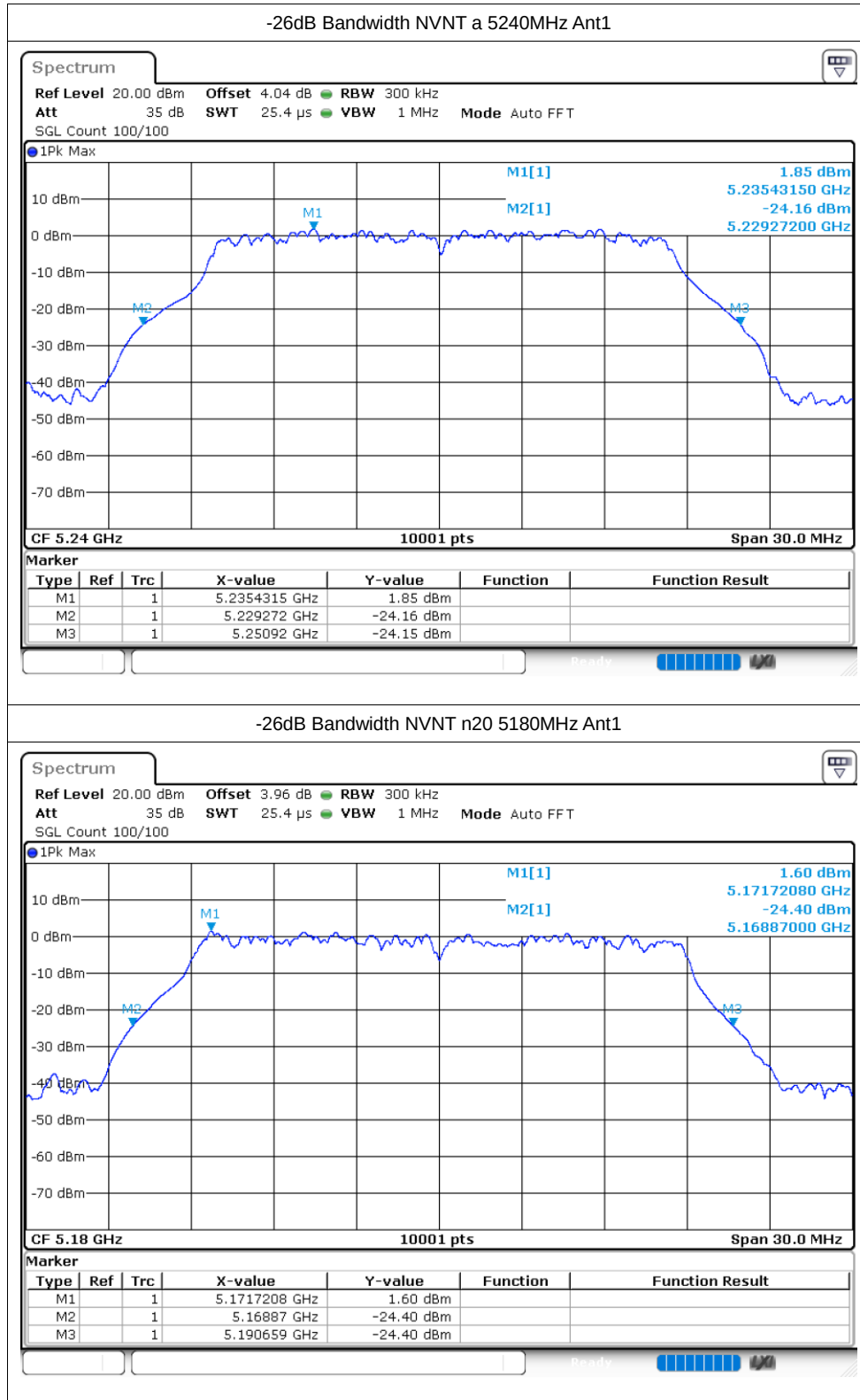
Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
 Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
 SGL Count 100/100

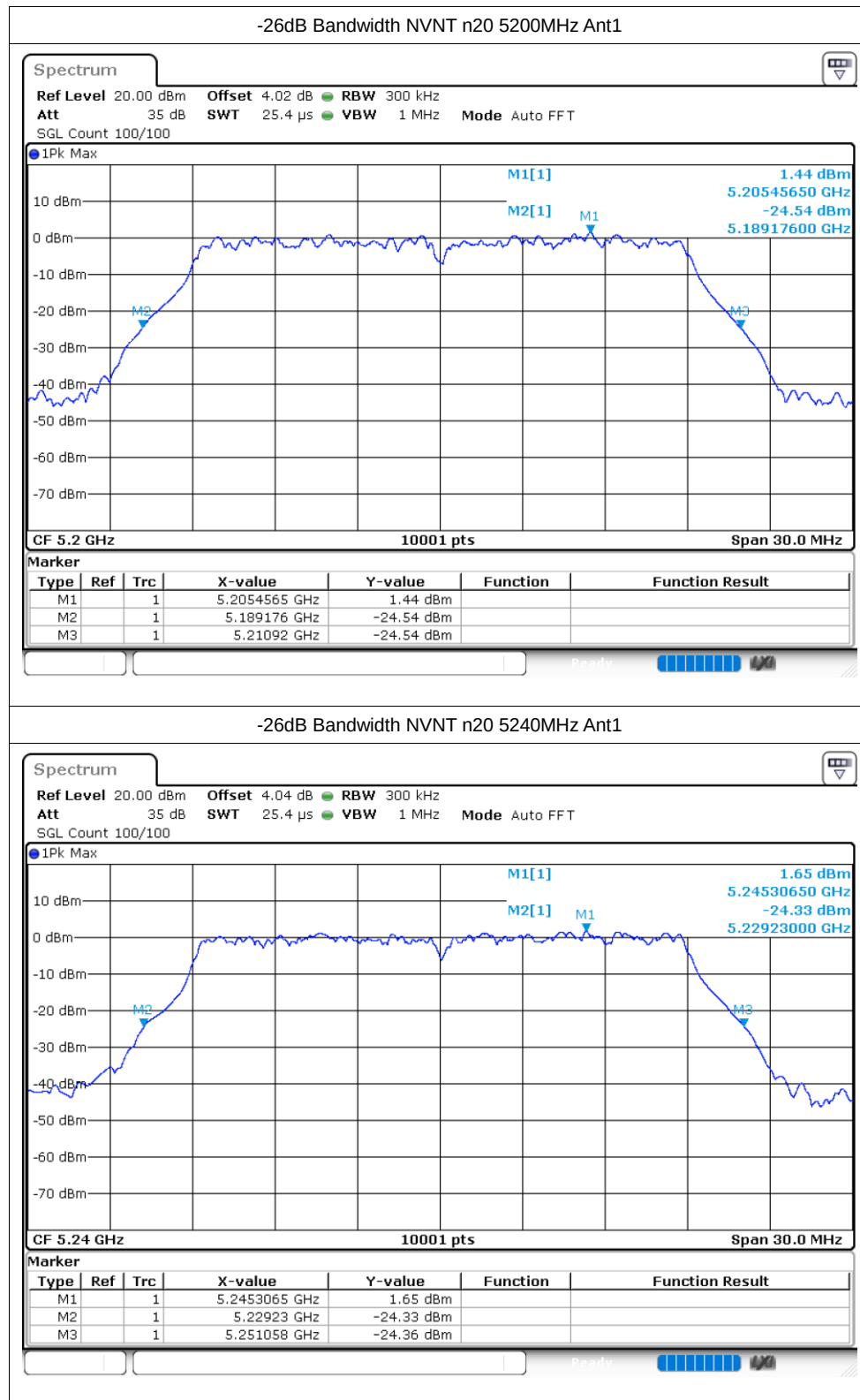
1Pk Max

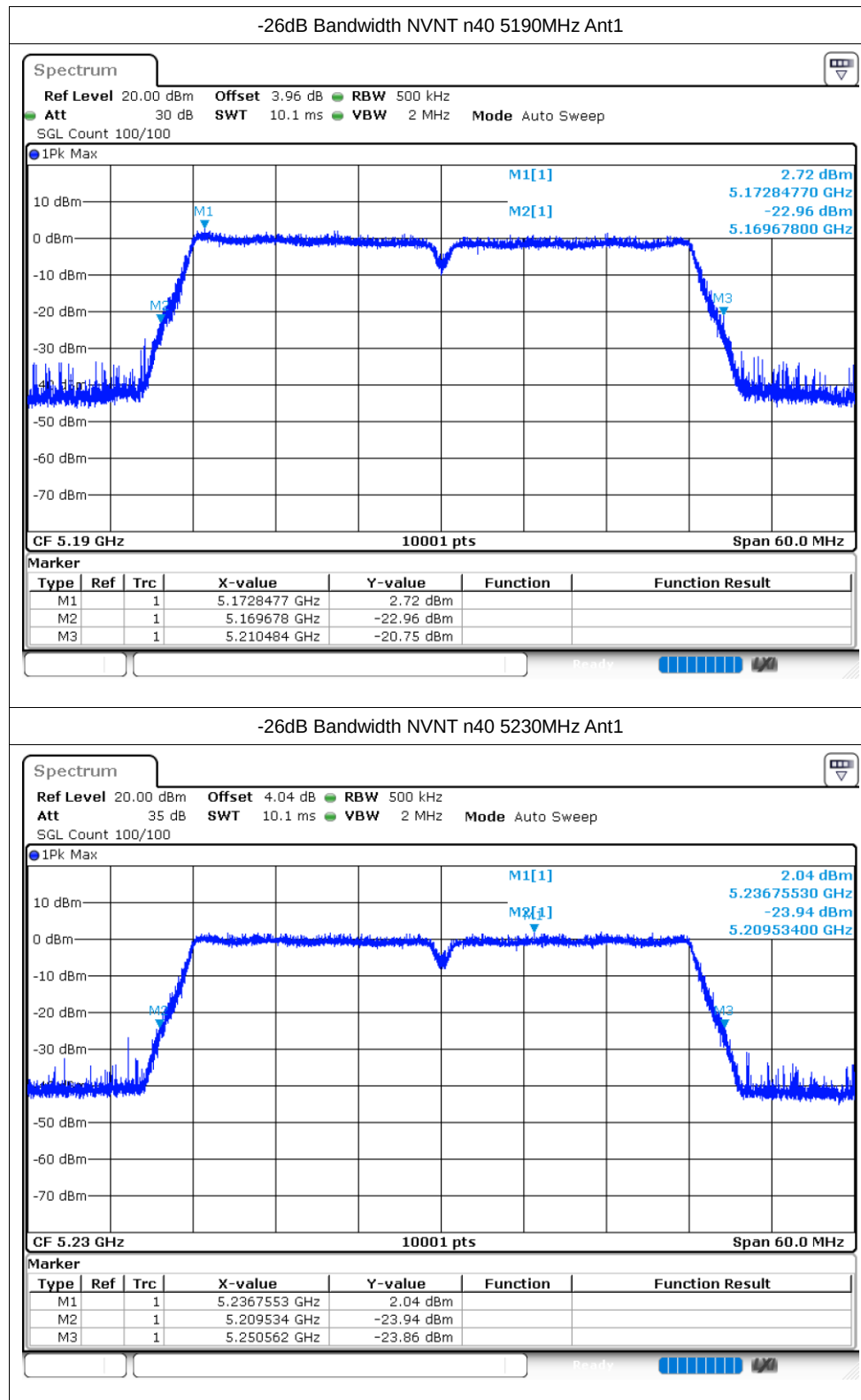


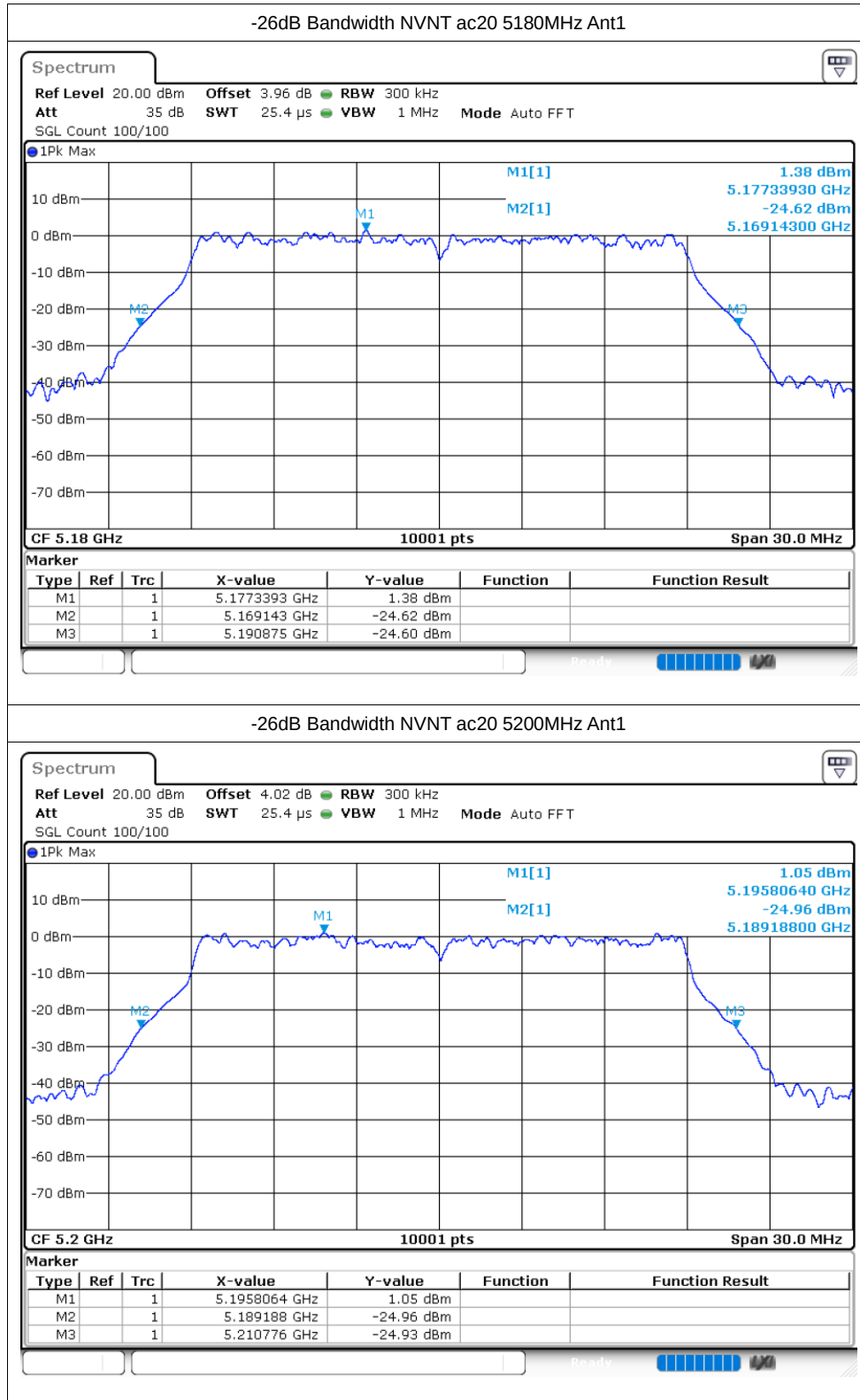
Marker

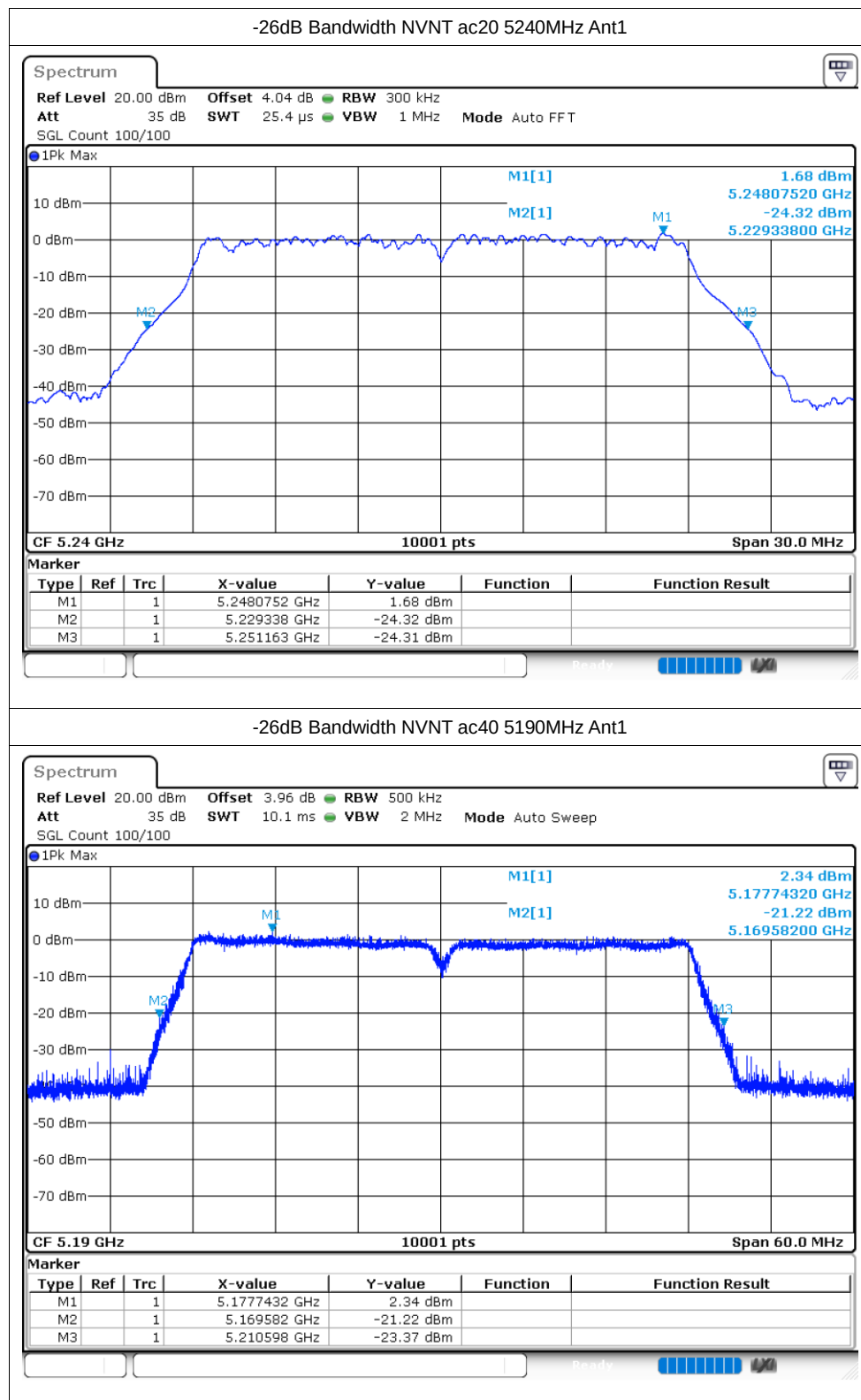
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.2010889 GHz	1.85 dBm		
M2	1		5.189542 GHz	-24.16 dBm		
M3	1		5.210686 GHz	-24.15 dBm		

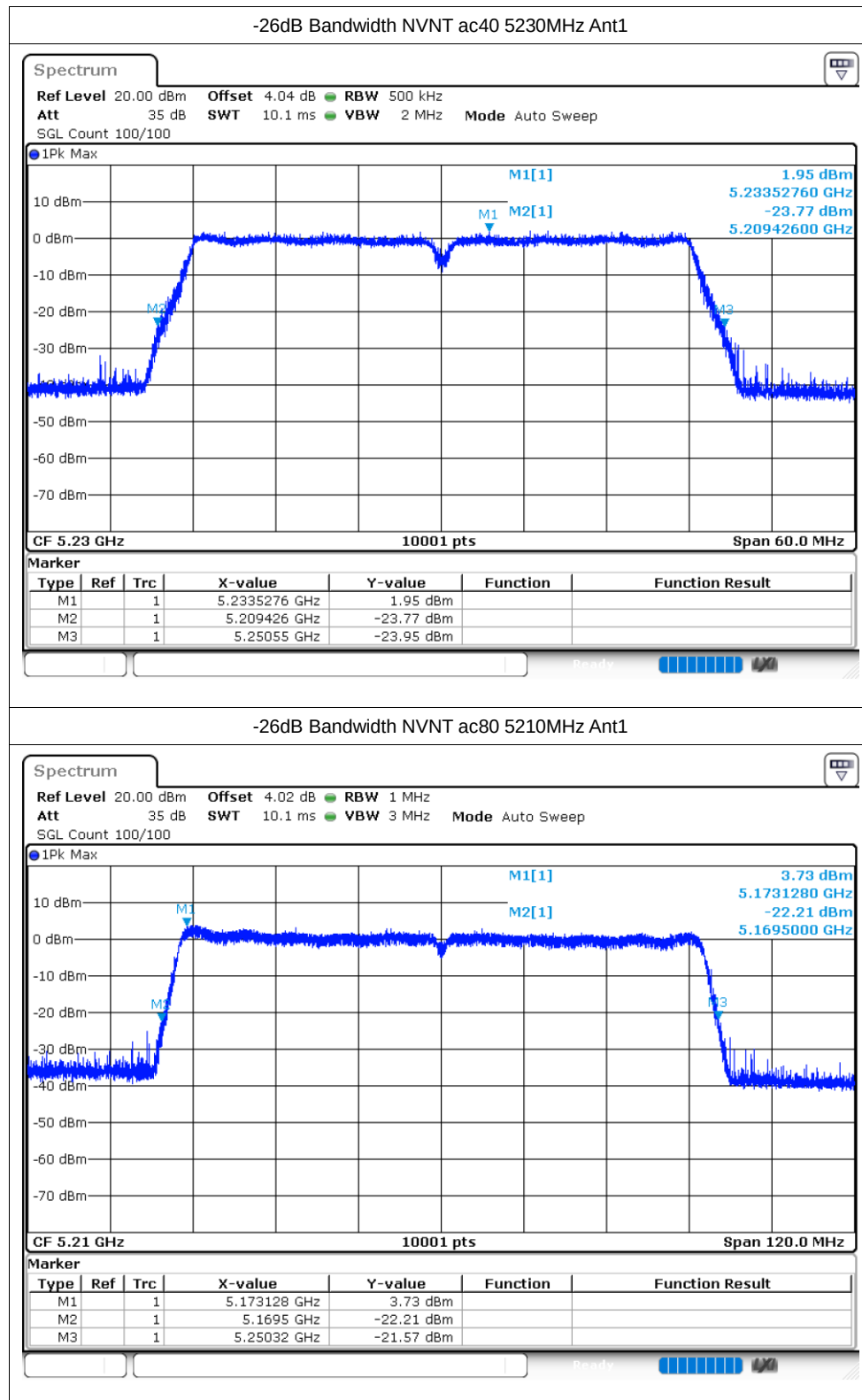










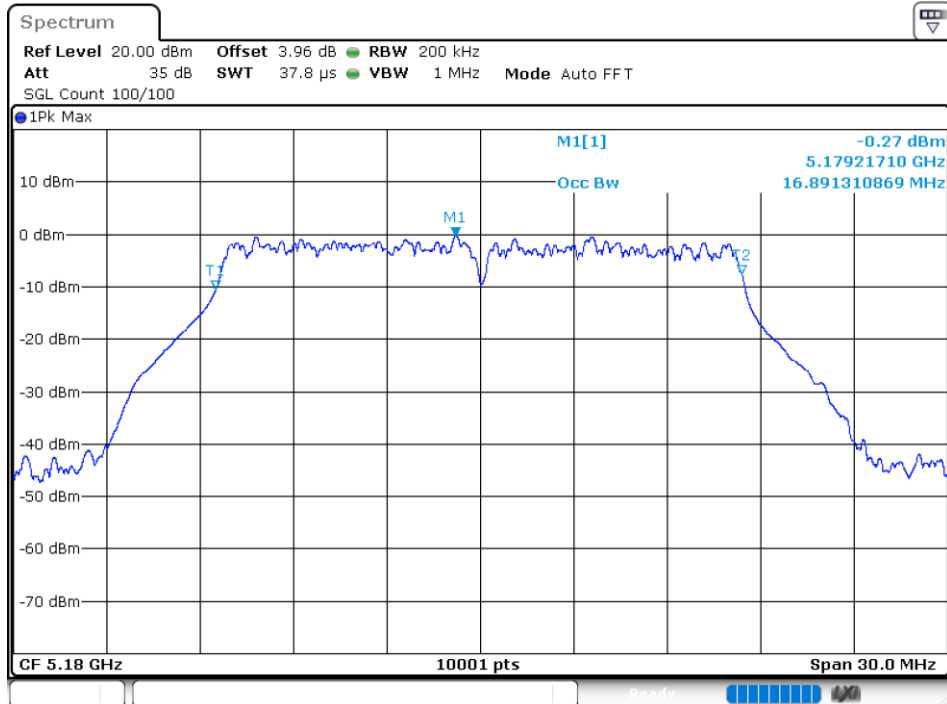


Occupied Channel Bandwidth

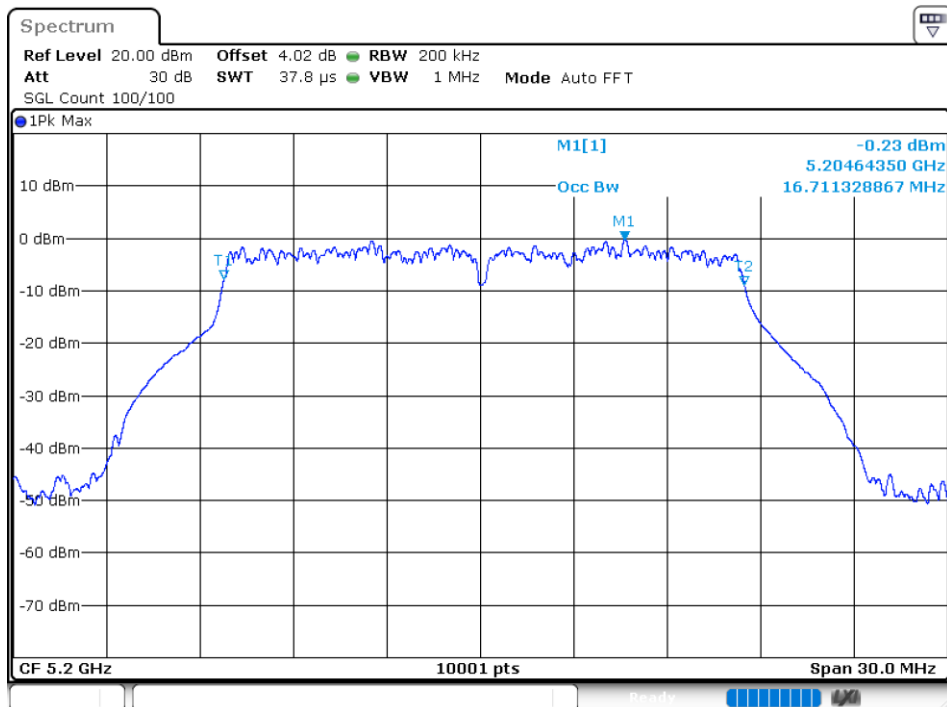
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.891
NVNT	a	5200	Ant1	16.711
NVNT	a	5240	Ant1	16.825
NVNT	n20	5180	Ant1	18.043
NVNT	n20	5200	Ant1	17.851
NVNT	n20	5240	Ant1	18.049
NVNT	n40	5190	Ant1	36.596
NVNT	n40	5230	Ant1	36.518
NVNT	ac20	5180	Ant1	17.917
NVNT	ac20	5200	Ant1	17.929
NVNT	ac20	5240	Ant1	17.782
NVNT	ac40	5190	Ant1	36.572
NVNT	ac40	5230	Ant1	36.518
NVNT	ac80	5210	Ant1	75.664

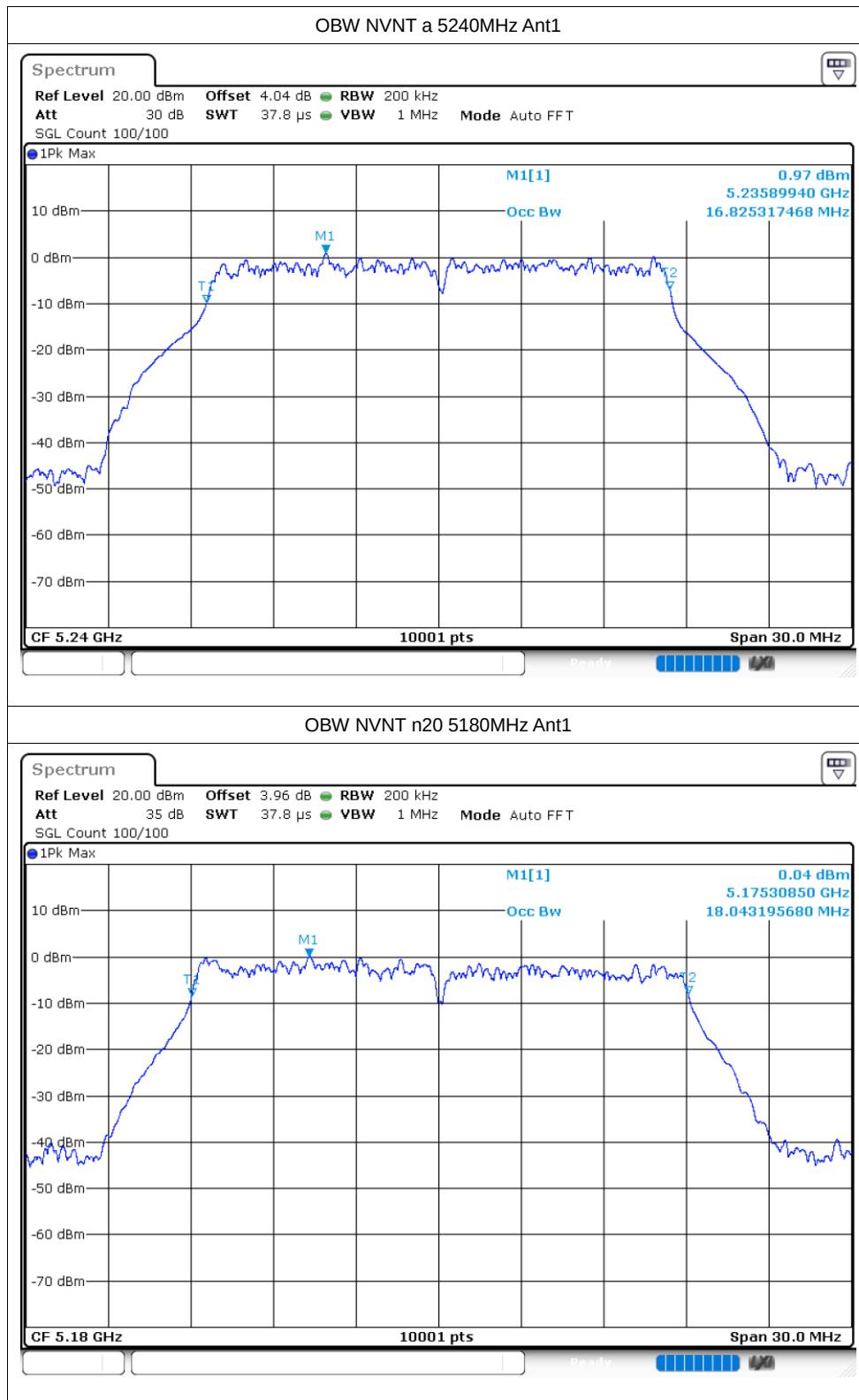
Test Graphs

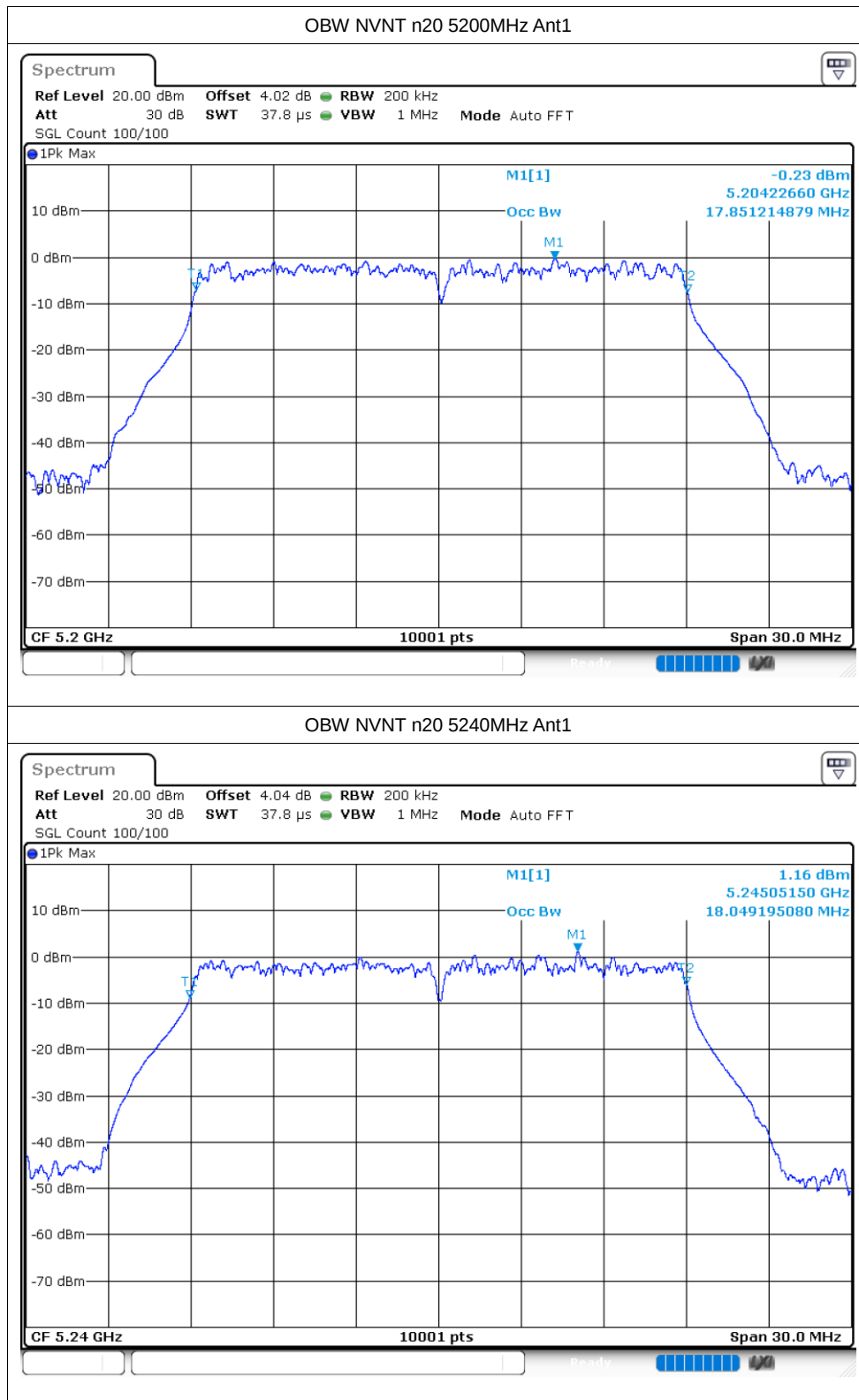
OBW NVNT a 5180MHz Ant1

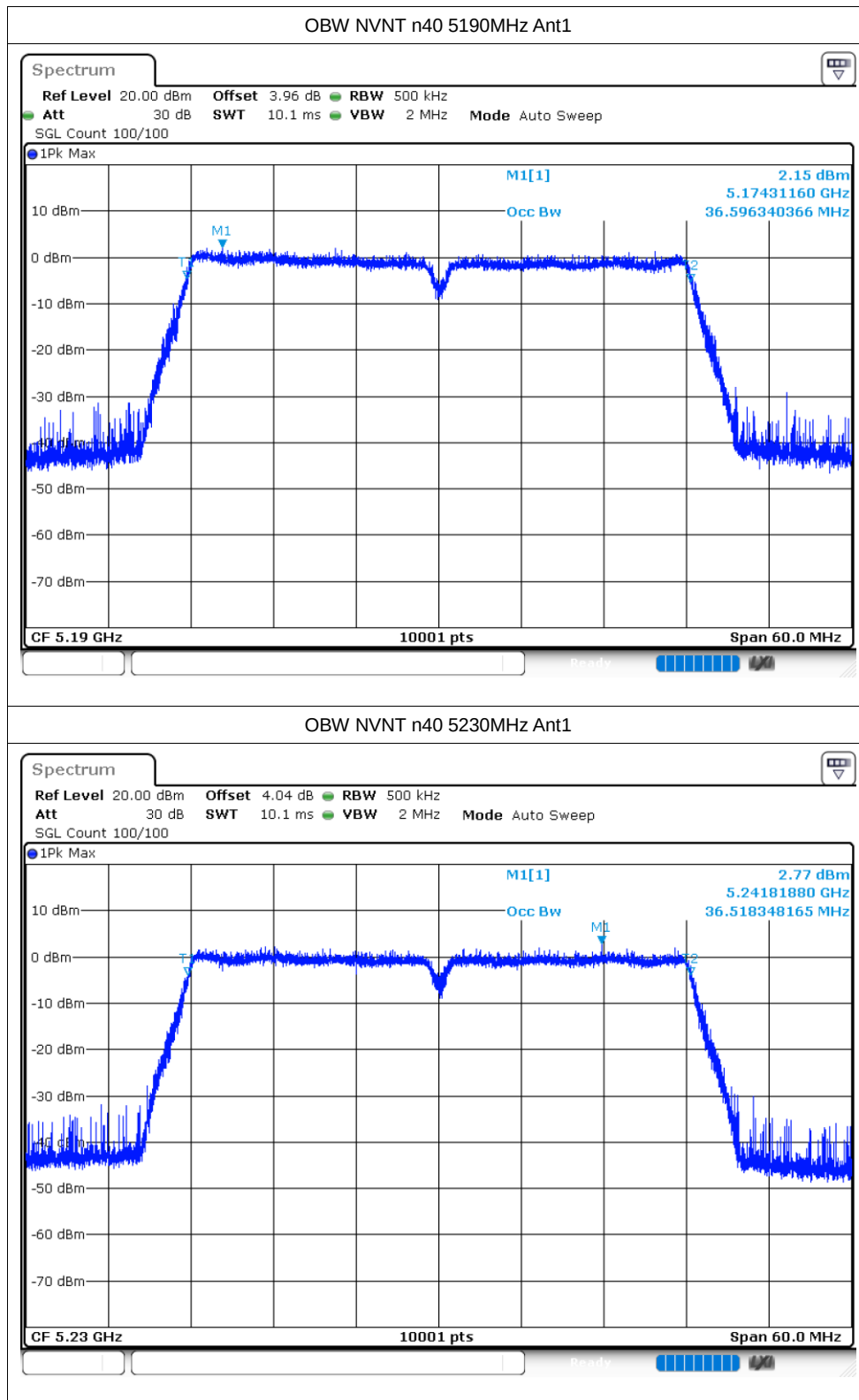


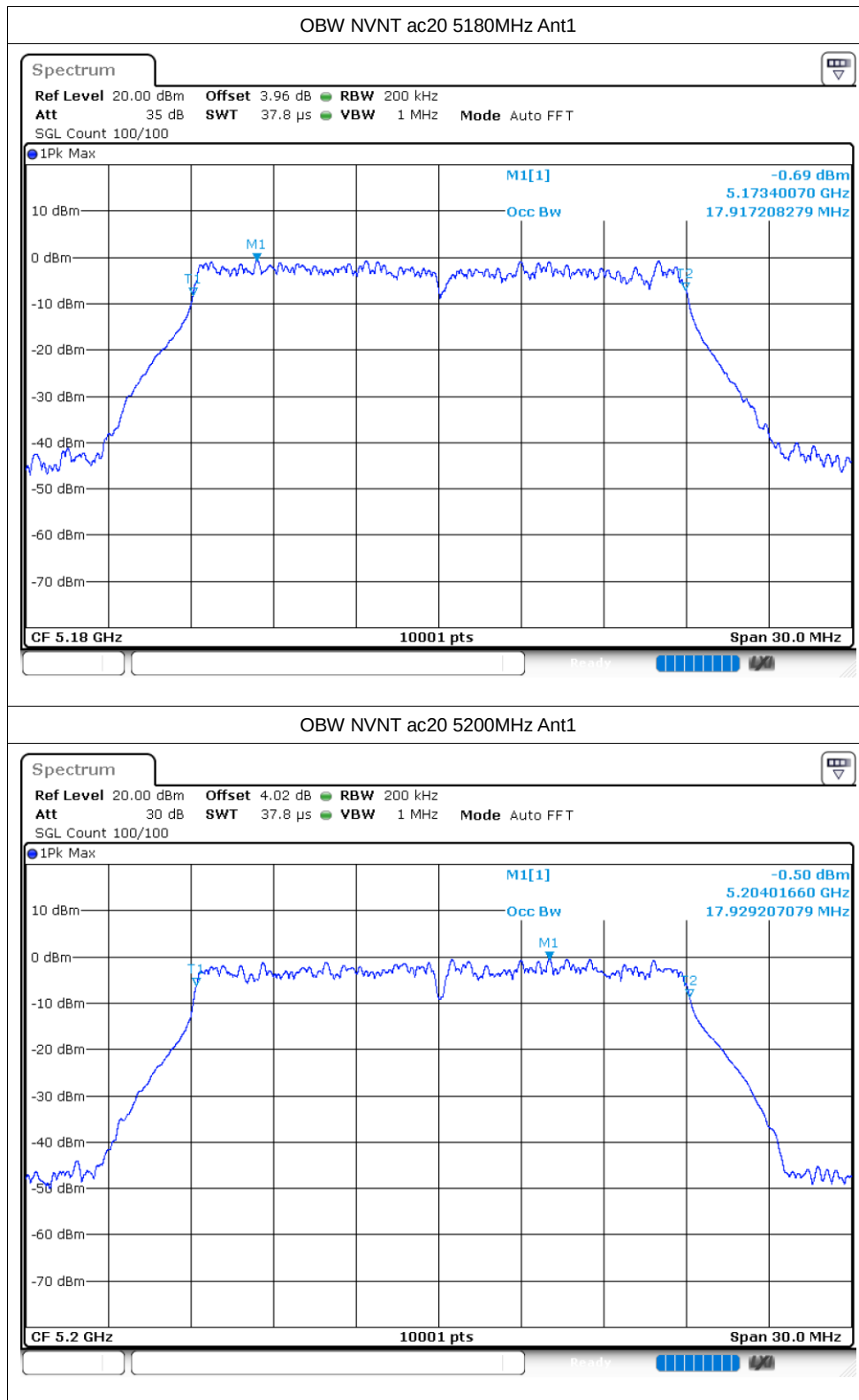
OBW NVNT a 5200MHz Ant1

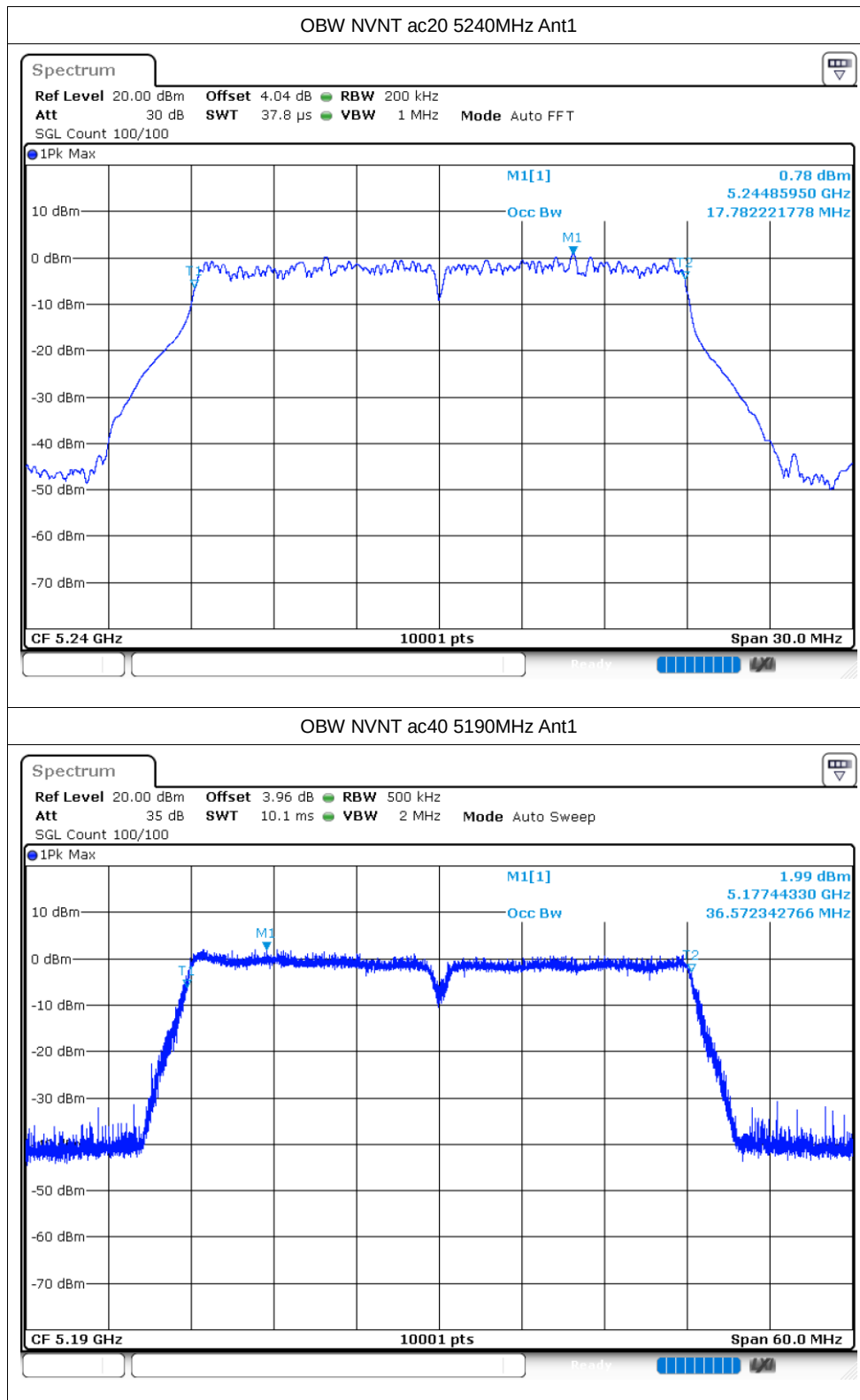


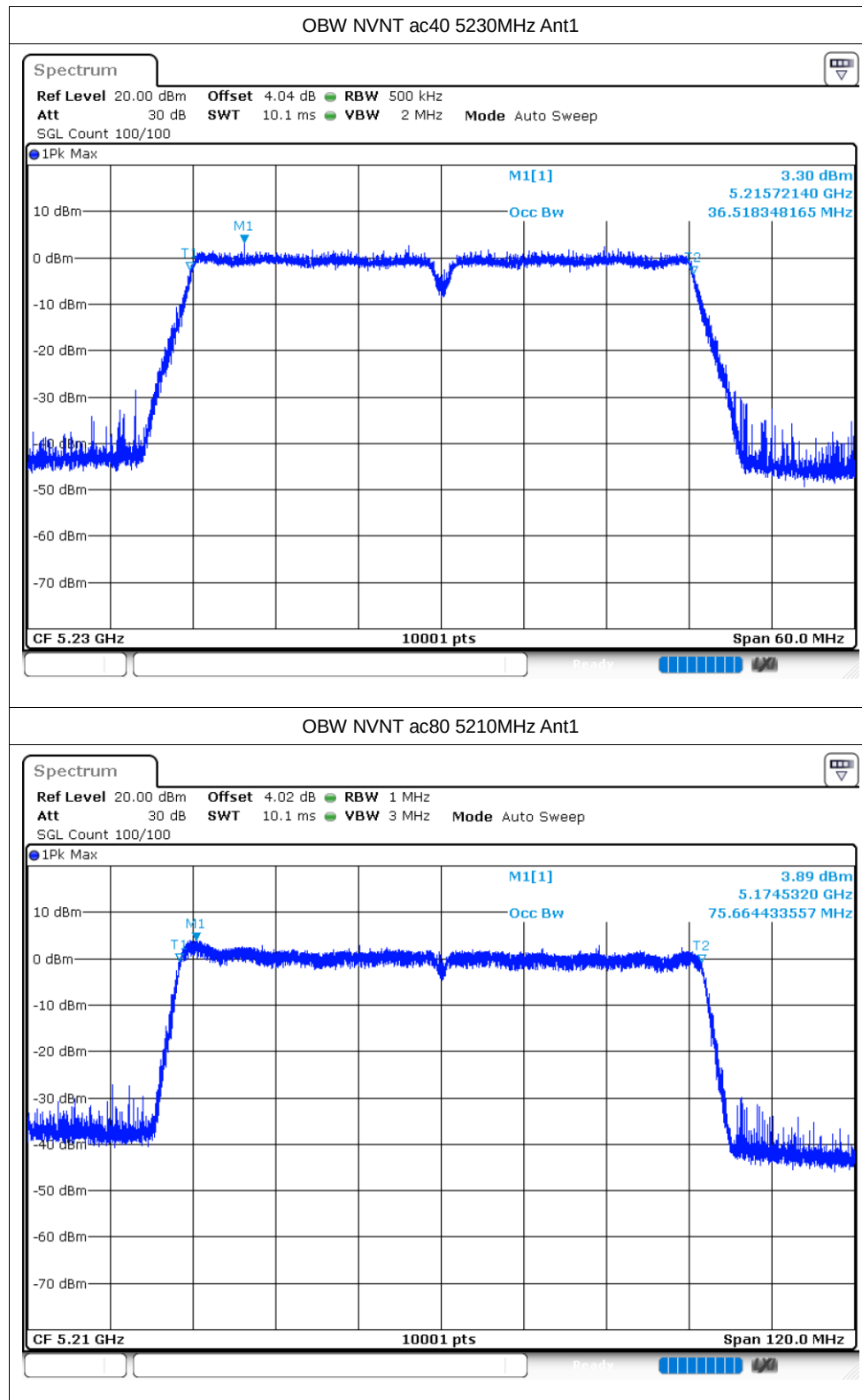










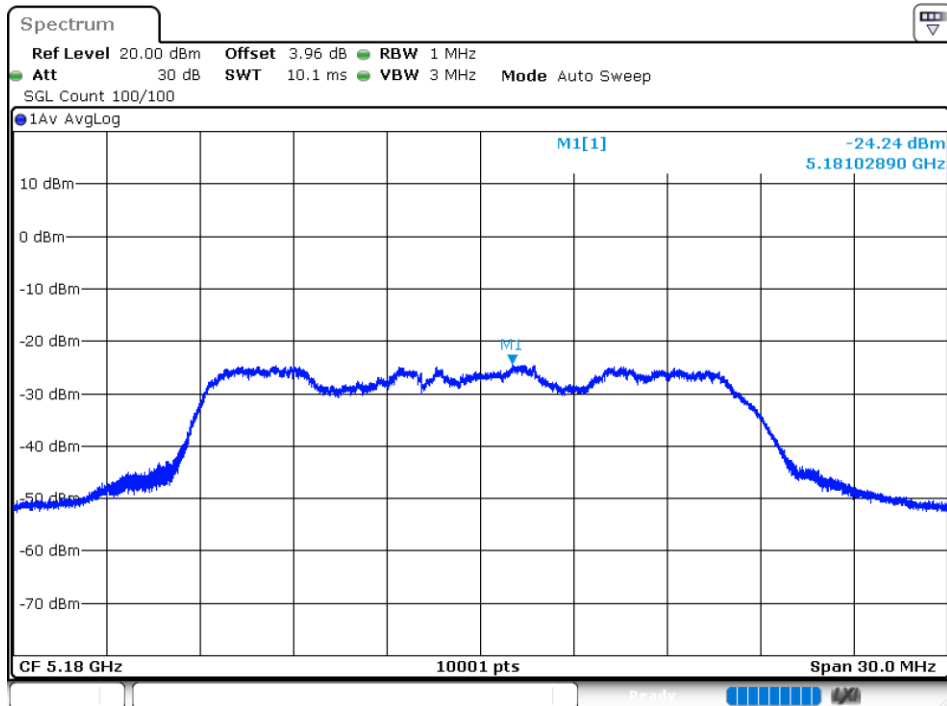


Maximum Power Spectral Density Level

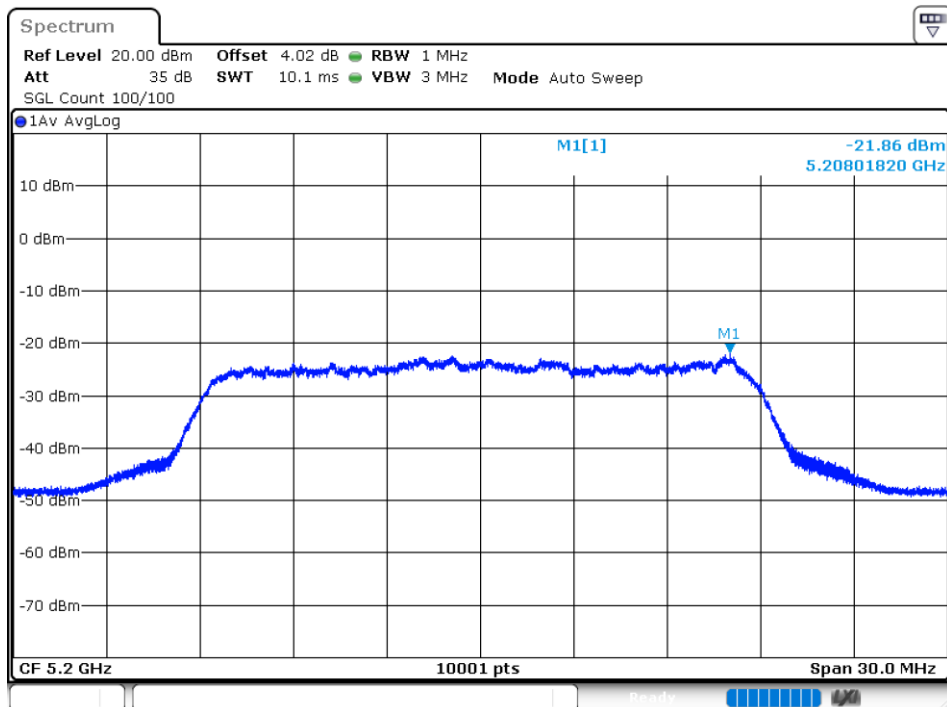
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-24.24	2.82	-21.42	11	Pass
NVNT	a	5200	Ant1	-21.86	2.67	-19.19	11	Pass
NVNT	a	5240	Ant1	-23.42	2.81	-20.61	11	Pass
NVNT	n20	5180	Ant1	-25.29	3.01	-22.28	11	Pass
NVNT	n20	5200	Ant1	-22.94	2.84	-20.1	11	Pass
NVNT	n20	5240	Ant1	-21.27	3	-18.27	11	Pass
NVNT	n40	5190	Ant1	-27.35	2.88	-24.47	11	Pass
NVNT	n40	5230	Ant1	-27.77	3.09	-24.68	11	Pass
NVNT	ac20	5180	Ant1	-24.73	3	-21.73	11	Pass
NVNT	ac20	5200	Ant1	-24.47	2.85	-21.62	11	Pass
NVNT	ac20	5240	Ant1	-22.9	2.71	-20.19	11	Pass
NVNT	ac40	5190	Ant1	-28.51	2.89	-25.62	11	Pass
NVNT	ac40	5230	Ant1	-25.67	2.91	-22.76	11	Pass
NVNT	ac80	5210	Ant1	-29.06	3.36	-25.7	11	Pass

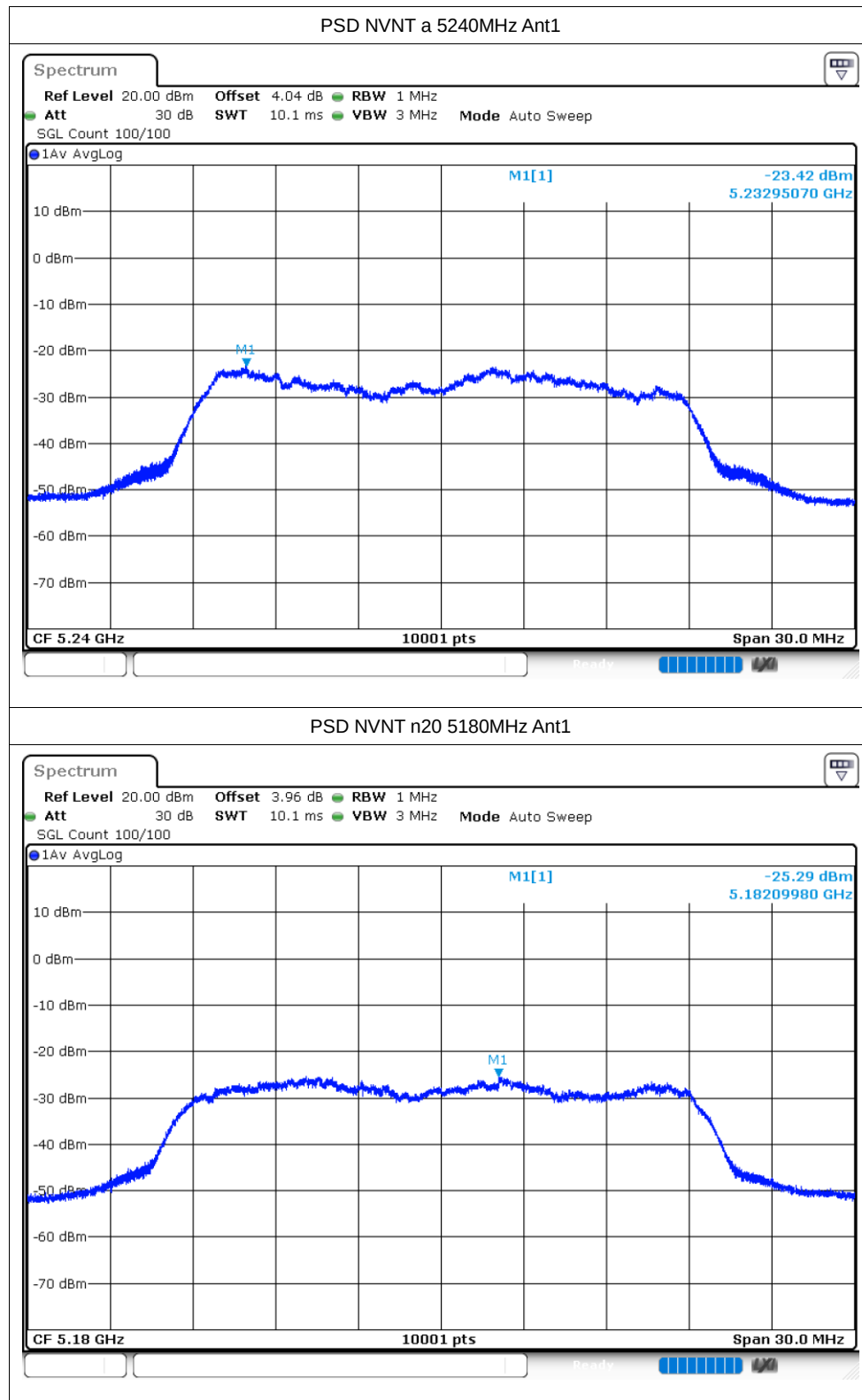
Test Graphs

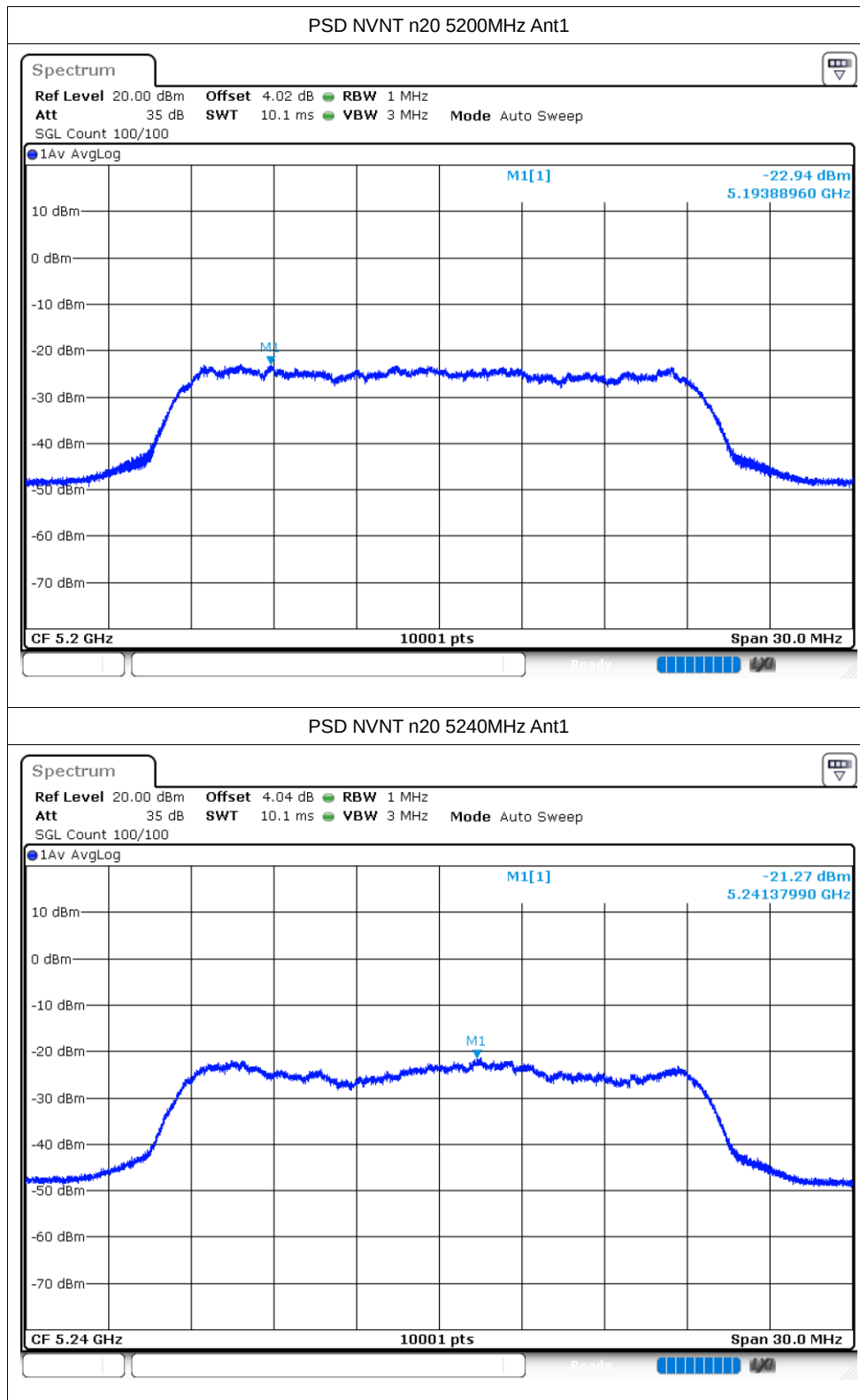
PSD NVNT a 5180MHz Ant1

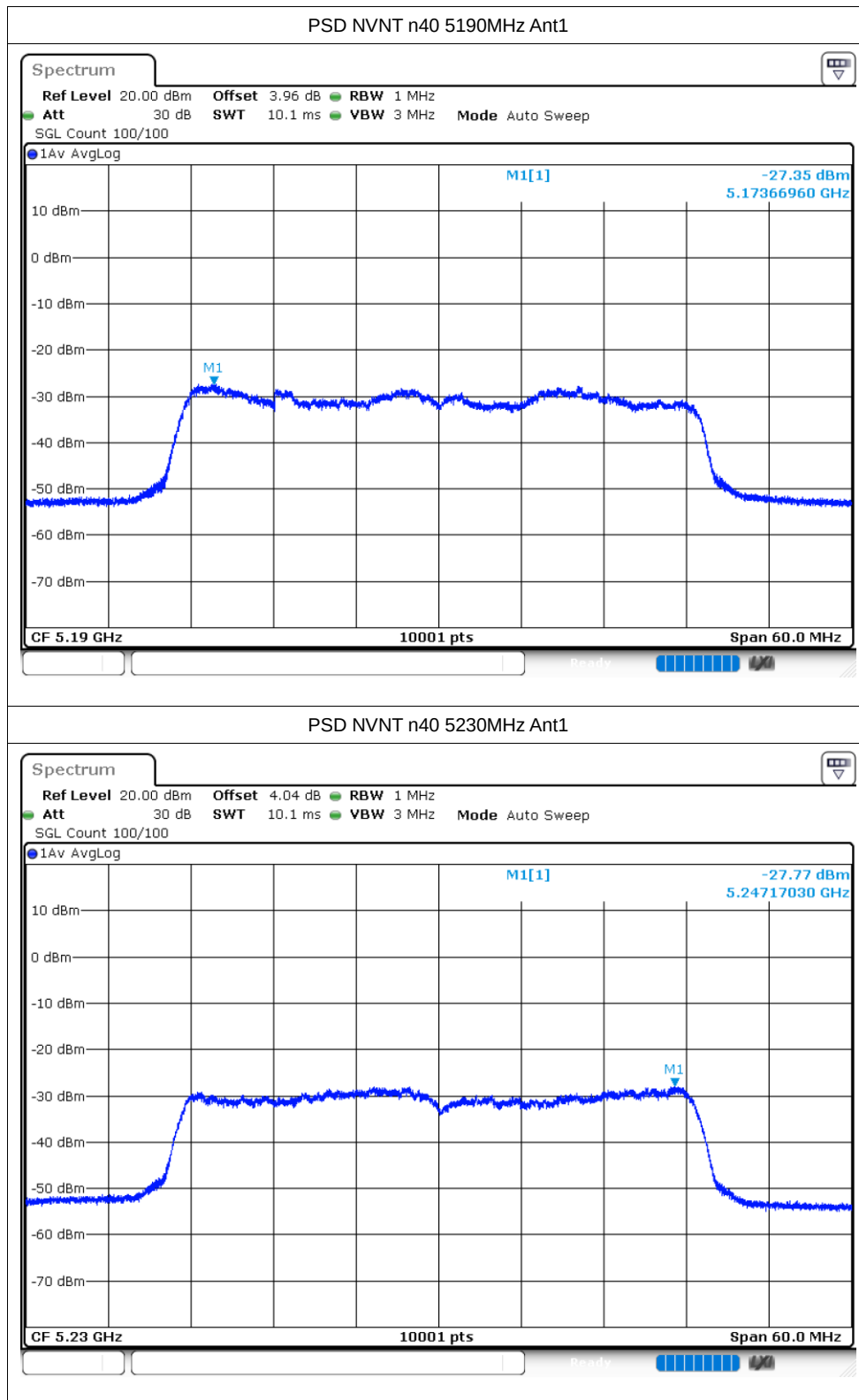


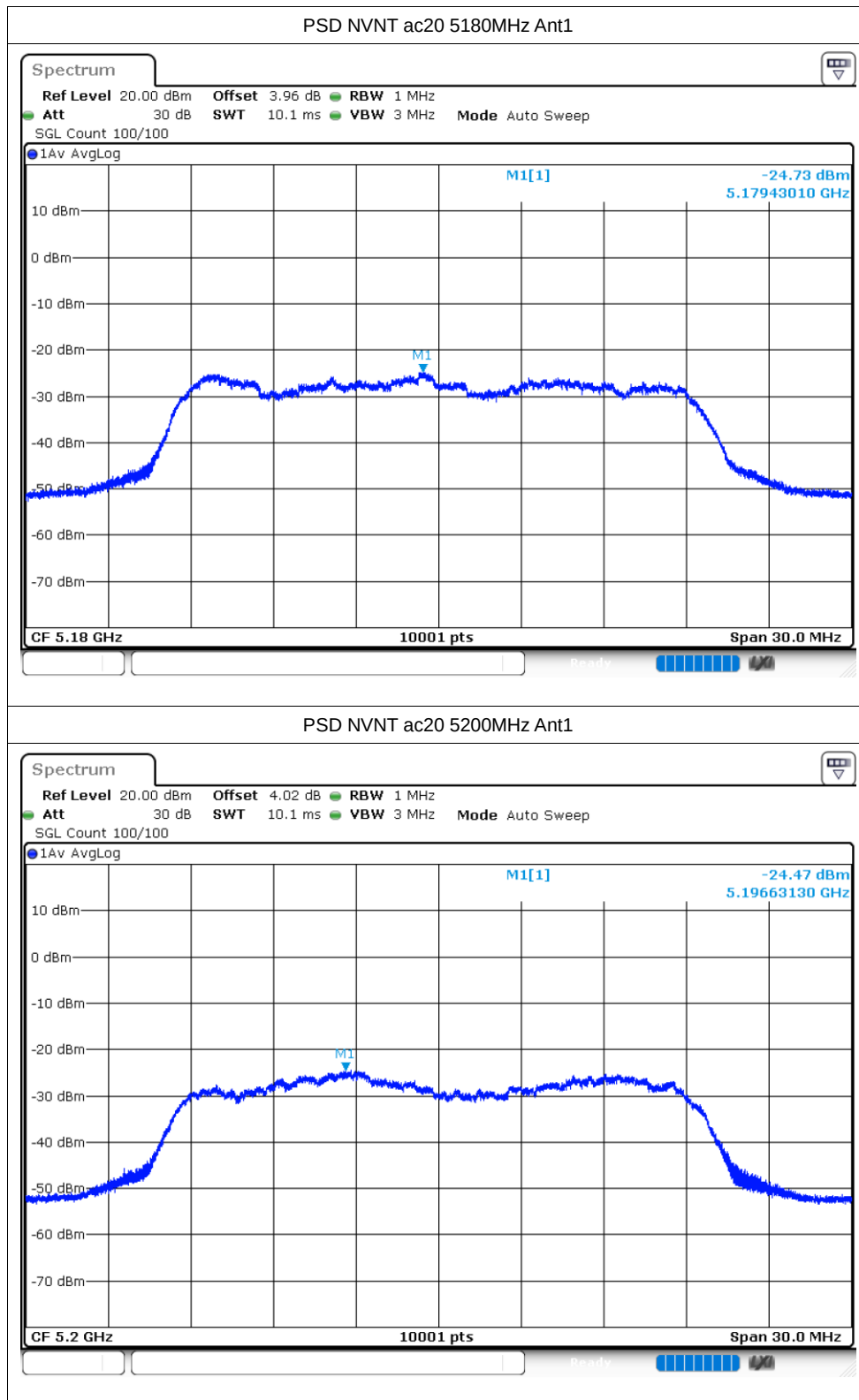
PSD NVNT a 5200MHz Ant1

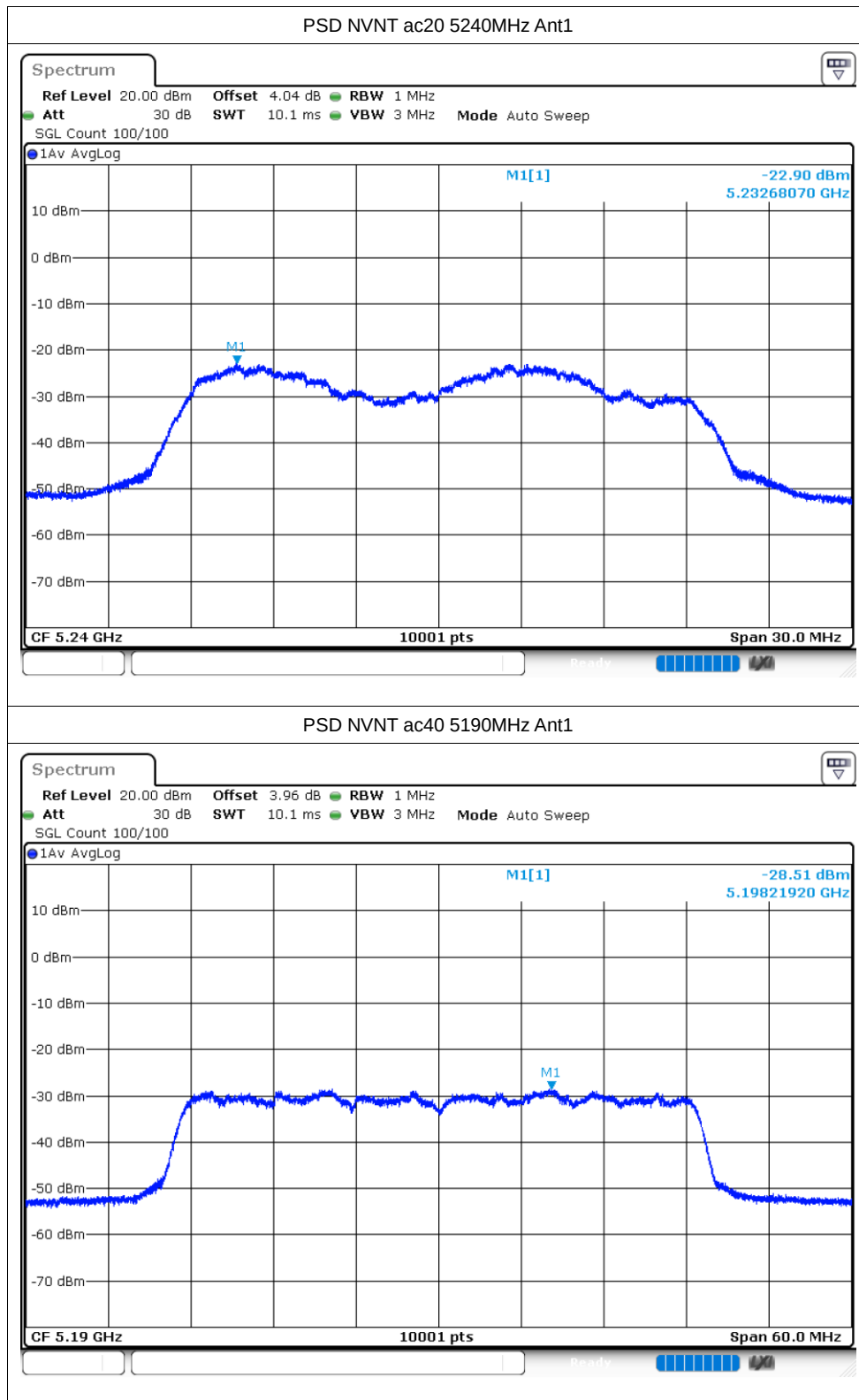


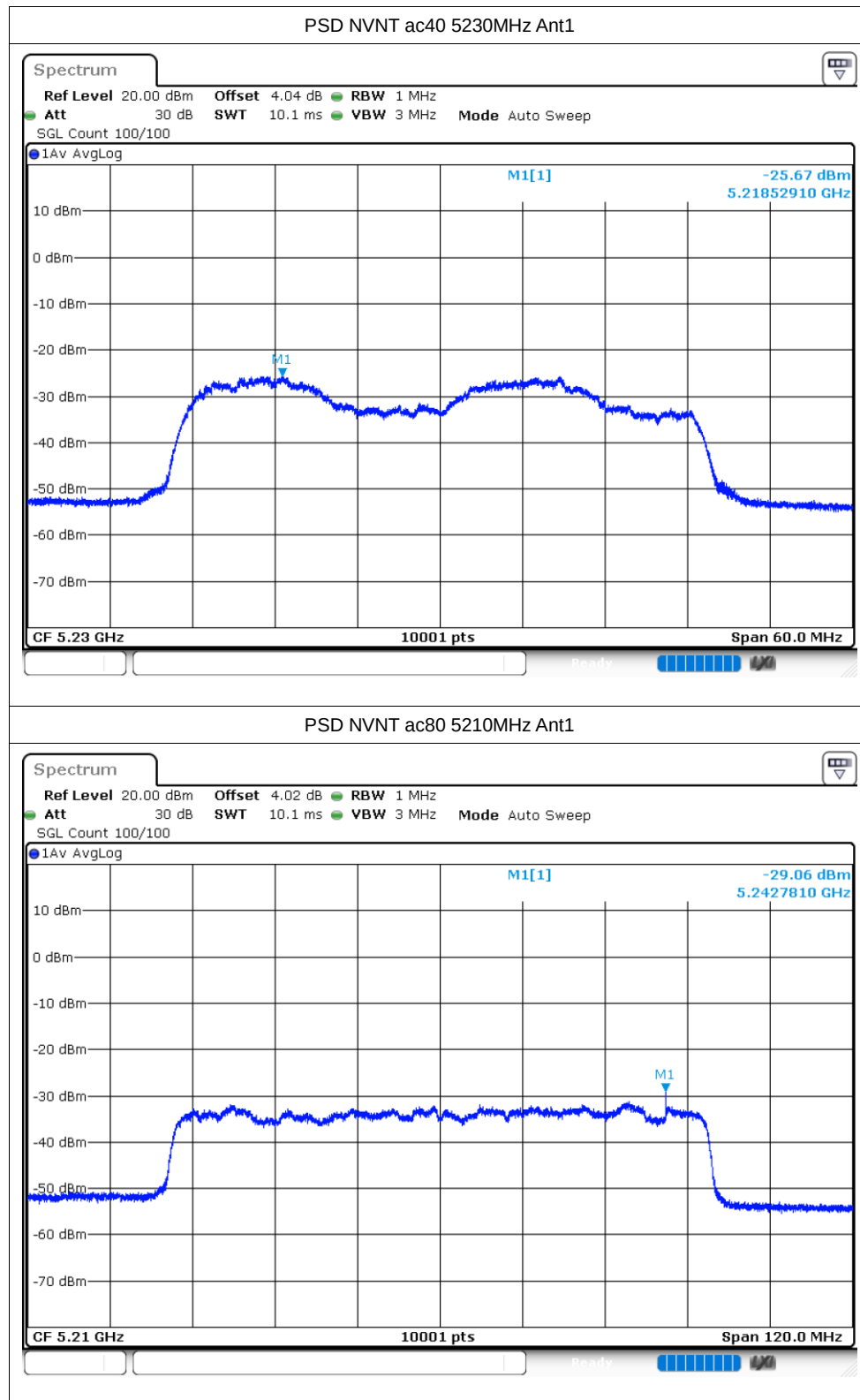










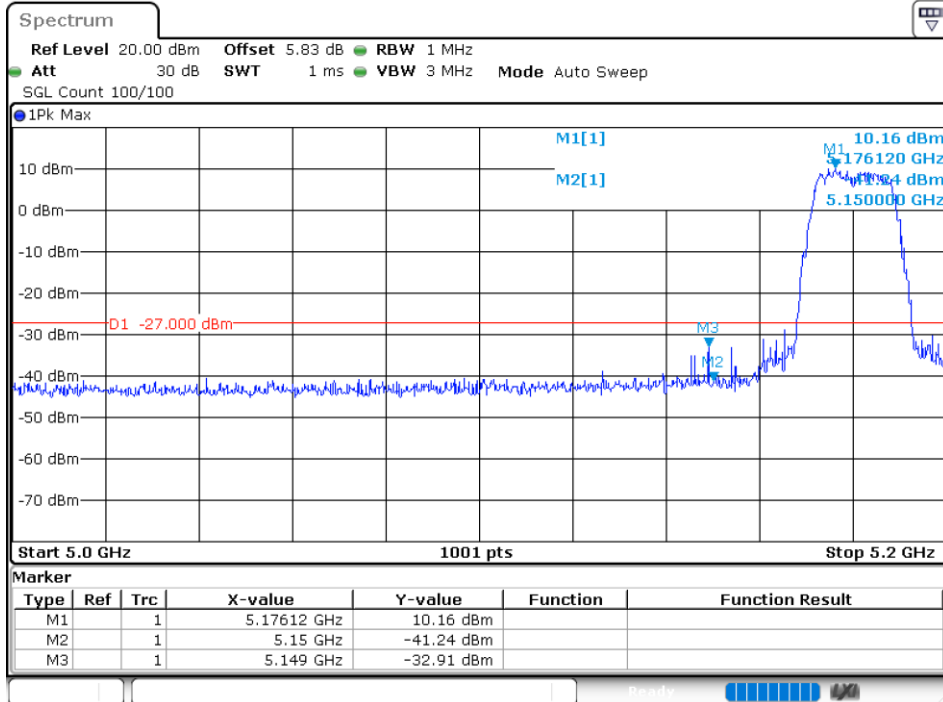


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-32.9	-27	Pass
NVNT	a	5240	Ant1	-40.36	-27	Pass
NVNT	n20	5180	Ant1	-36.66	-27	Pass
NVNT	n20	5240	Ant1	-40.3	-27	Pass
NVNT	n40	5190	Ant1	-35.65	-27	Pass
NVNT	n40	5230	Ant1	-41.29	-27	Pass
NVNT	ac20	5180	Ant1	-38.53	-27	Pass
NVNT	ac20	5240	Ant1	-41.06	-27	Pass
NVNT	ac40	5190	Ant1	-36.89	-27	Pass
NVNT	ac40	5230	Ant1	-41.08	-27	Pass
NVNT	ac80	5210	Ant1	-41.15	-27	Pass
NVNT	ac80	5210	Ant1	-30.91	-27	Pass

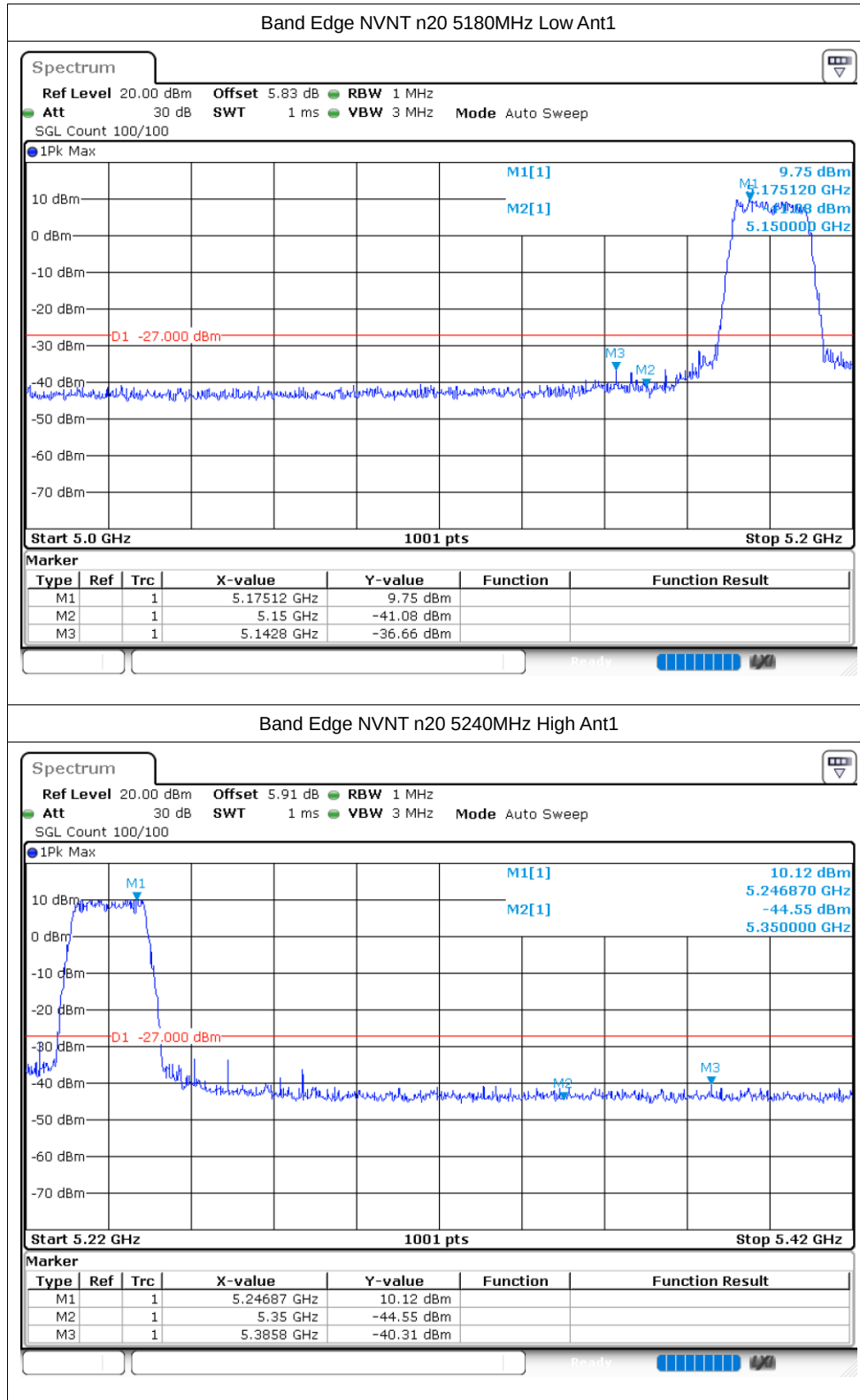
Test Graphs

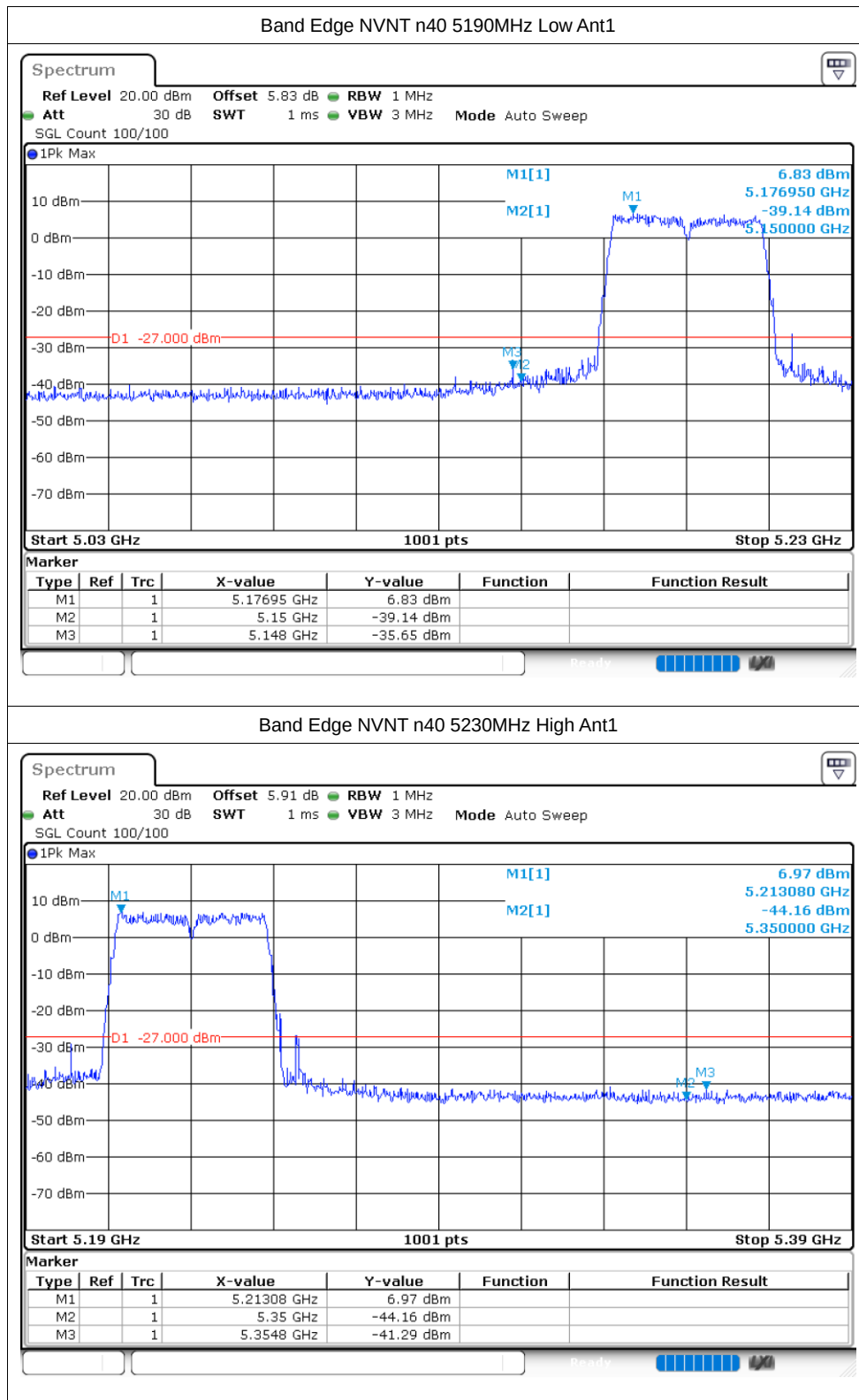
Band Edge NVNT a 5180MHz Low Ant1

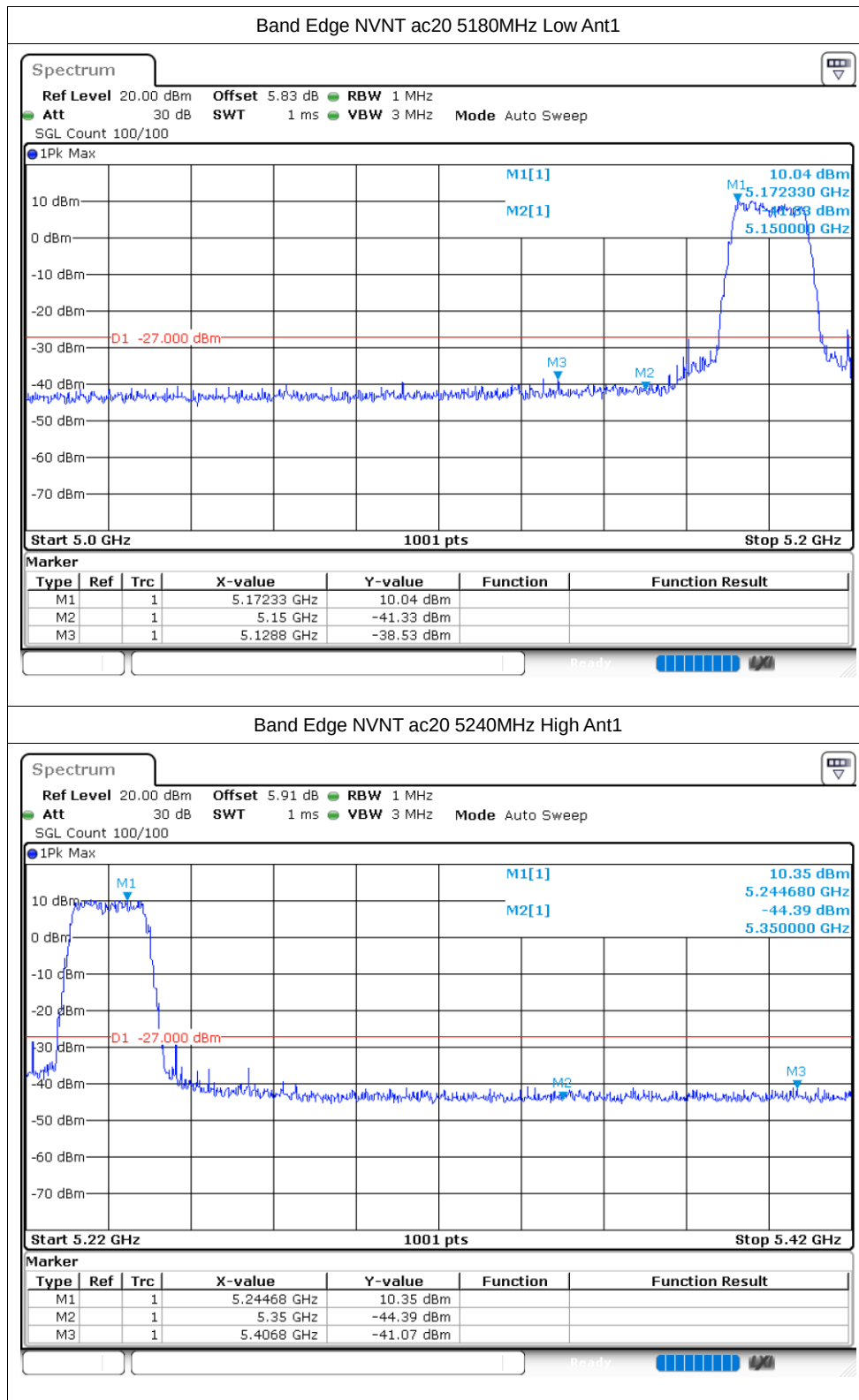


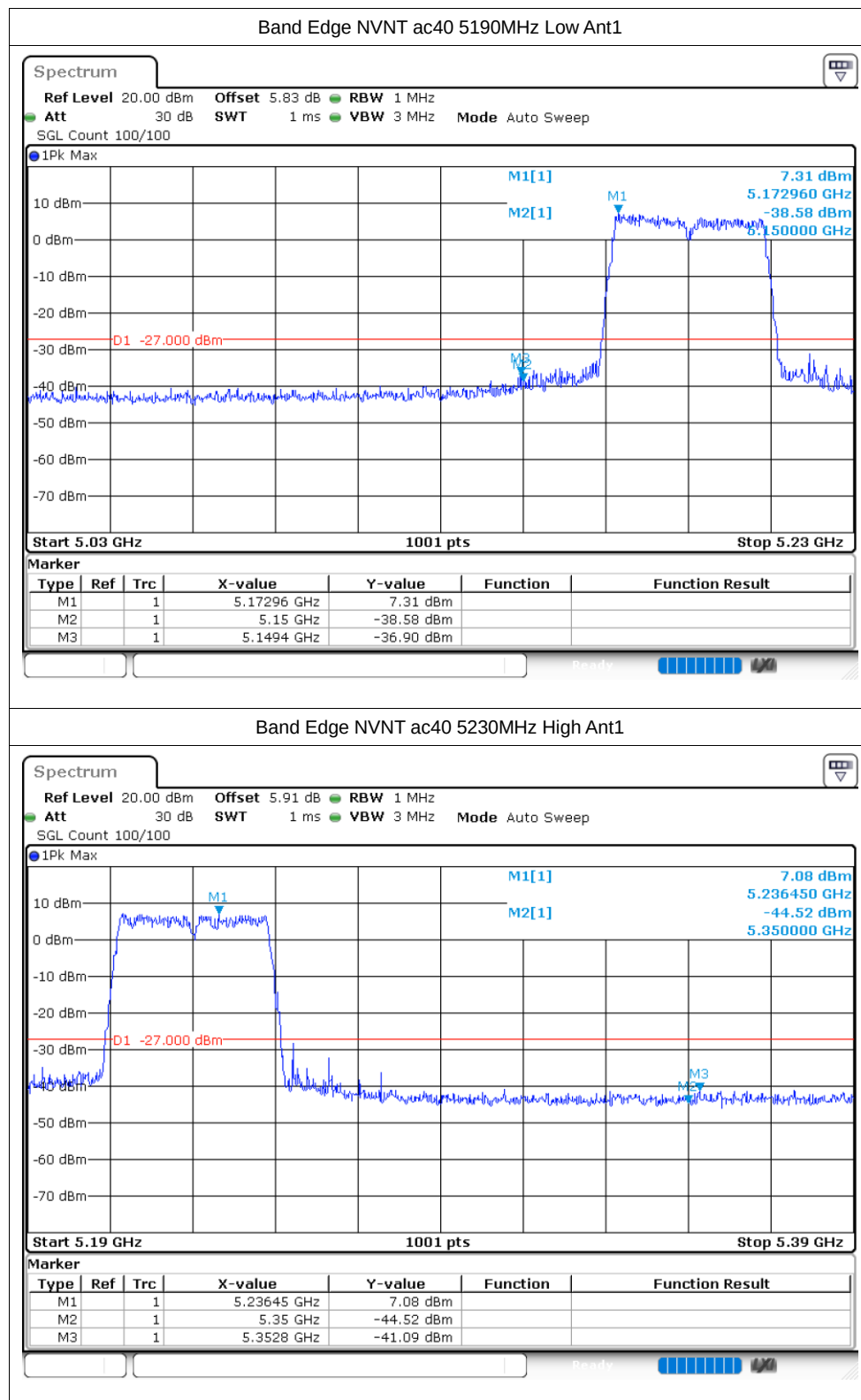
Band Edge NVNT a 5240MHz High Ant1

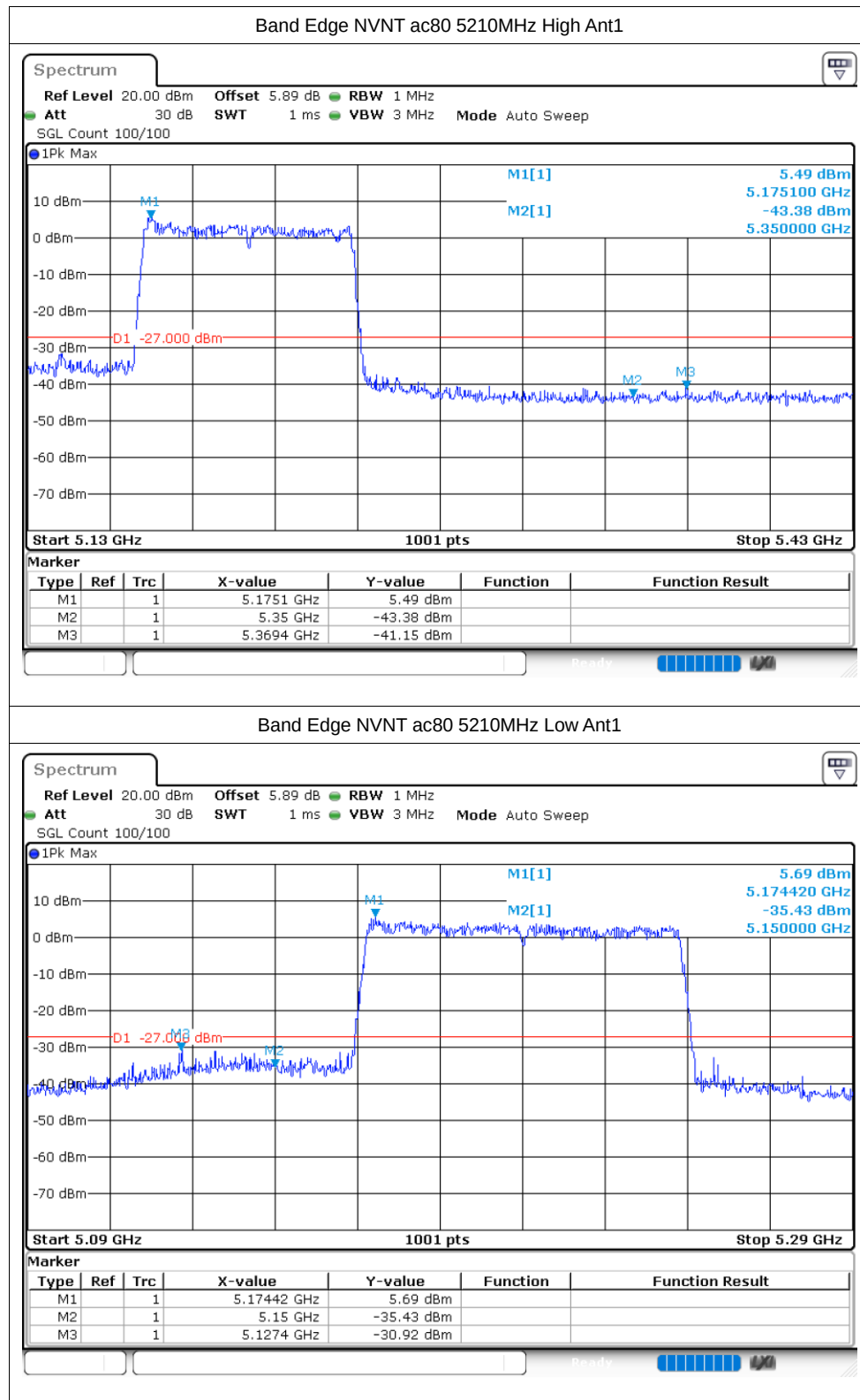












Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-32.9	-27	Pass
NVNT	a	5200	Ant1	-31.53	-27	Pass
NVNT	a	5240	Ant1	-31.07	-27	Pass
NVNT	n20	5180	Ant1	-31.23	-27	Pass
NVNT	n20	5200	Ant1	-31.87	-27	Pass
NVNT	n20	5240	Ant1	-31.91	-27	Pass
NVNT	n40	5190	Ant1	-32.15	-27	Pass
NVNT	n40	5230	Ant1	-32.43	-27	Pass
NVNT	ac20	5180	Ant1	-32.57	-27	Pass
NVNT	ac20	5200	Ant1	-32.16	-27	Pass
NVNT	ac20	5240	Ant1	-31.39	-27	Pass
NVNT	ac40	5190	Ant1	-32.64	-27	Pass
NVNT	ac40	5230	Ant1	-32.43	-27	Pass
NVNT	ac80	5210	Ant1	-31.98	-27	Pass

