

5.2G:

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	97.59	0.11	0.71
NVNT	a	5240	Ant1	97.56	0.11	0.71
NVNT	n20	5180	Ant1	97.43	0.11	0.78
NVNT	n20	5200	Ant1	97.43	0.11	0.78
NVNT	n20	5240	Ant1	97.4	0.11	0.78
NVNT	n40	5190	Ant1	95.17	0.21	1.56
NVNT	n40	5230	Ant1	95.17	0.21	1.56
NVNT	ac20	5180	Ant1	97.45	0.11	0.76
NVNT	ac20	5200	Ant1	97.47	0.11	0.76
NVNT	ac20	5240	Ant1	97.46	0.11	0.76
NVNT	ac40	5190	Ant1	95.1	0.22	1.52
NVNT	ac40	5230	Ant1	95.08	0.22	1.54
NVNT	ac80	5210	Ant1	90.53	0.43	3.03

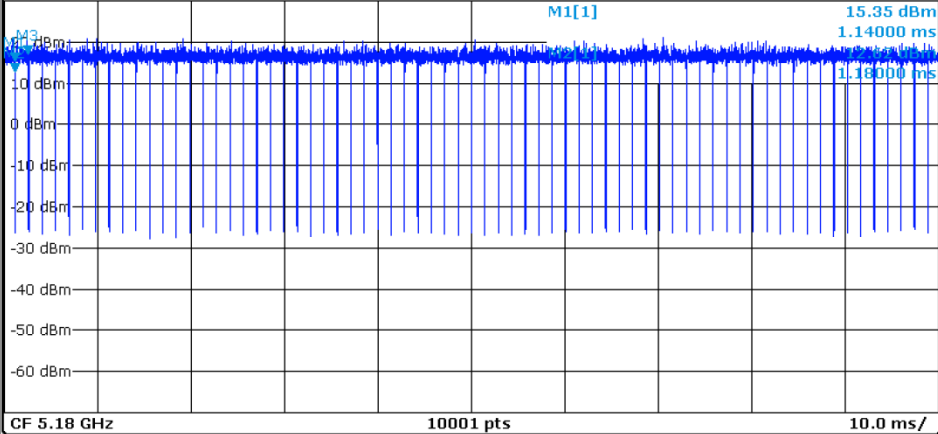
Test Graphs

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

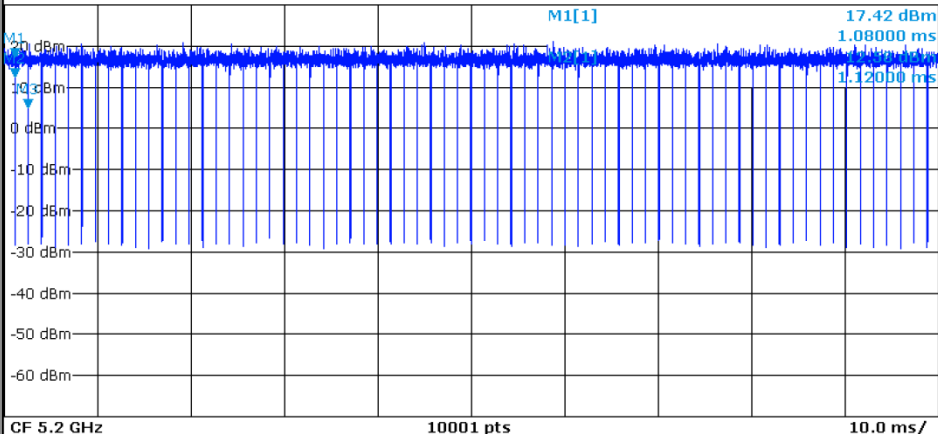
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.14 ms	15.35 dBm		
M2	1		1.18 ms	12.62 dBm		
M3	1		2.57 ms	17.01 dBm		

Duty Cycle NVNT a 5200MHz Ant1

Spectrum

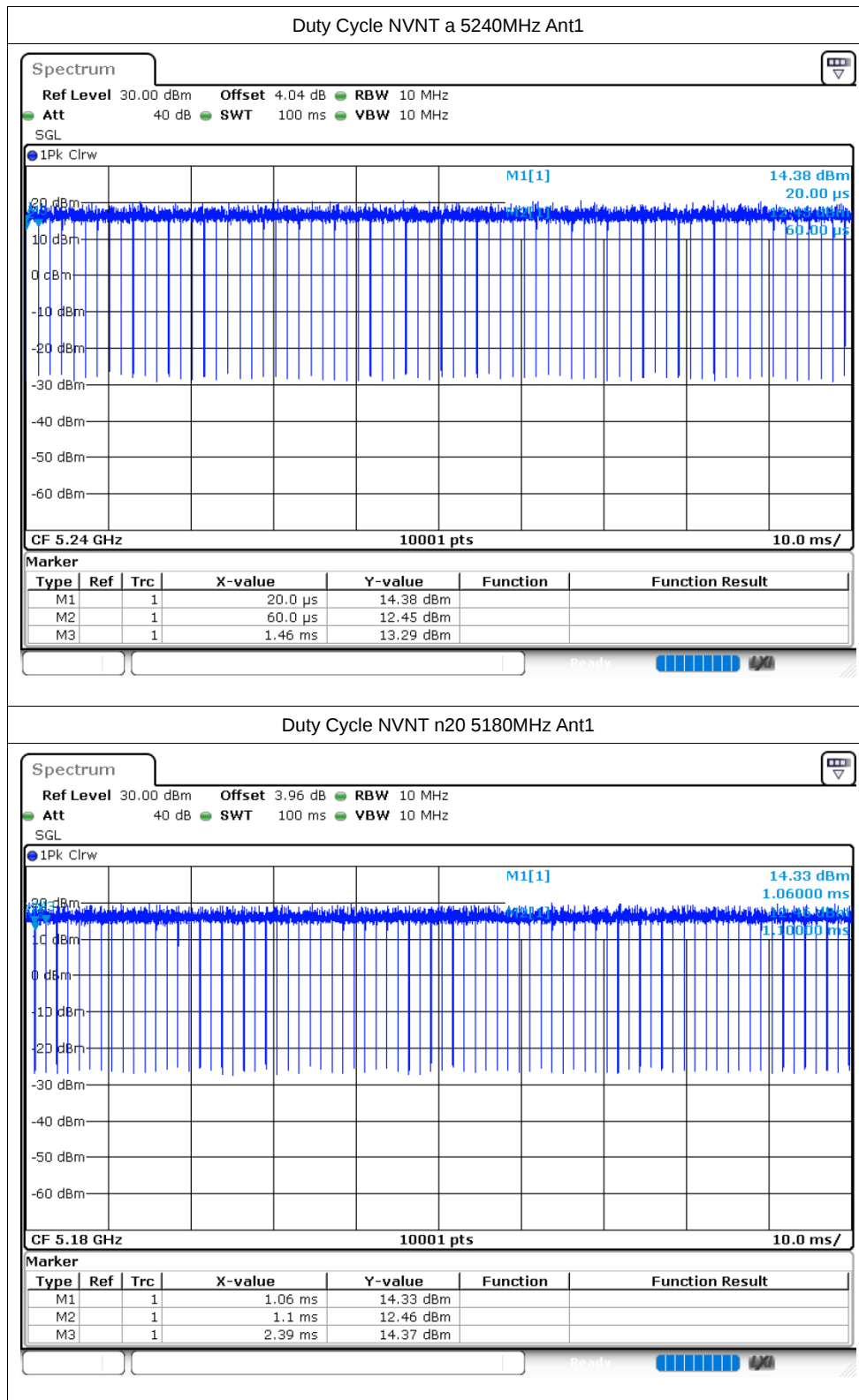
Ref Level 30.00 dBm Offset 4.02 dB RBW 10 MHz
 Att 40 dB SWT 100 ms VBW 10 MHz
 SGL

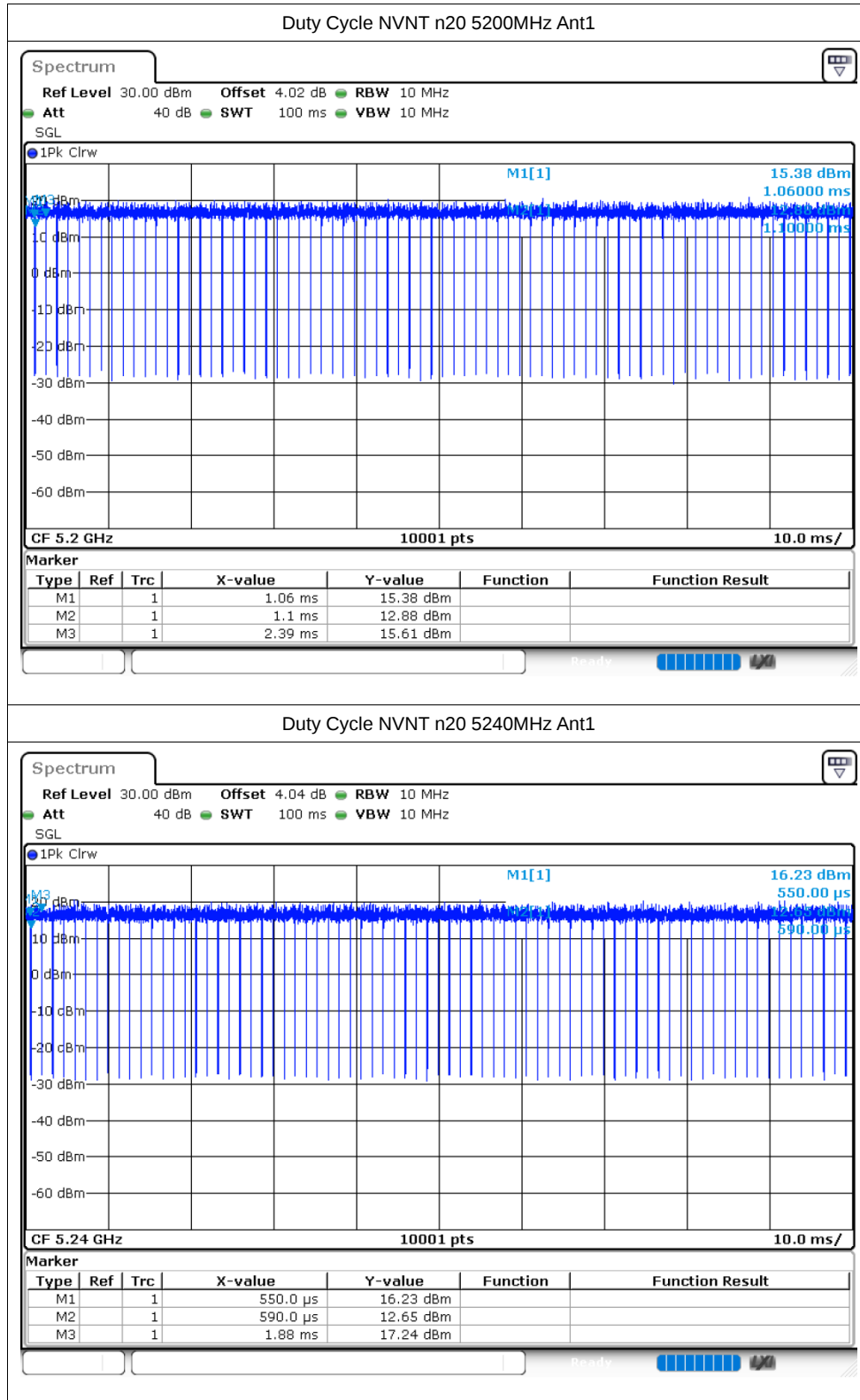
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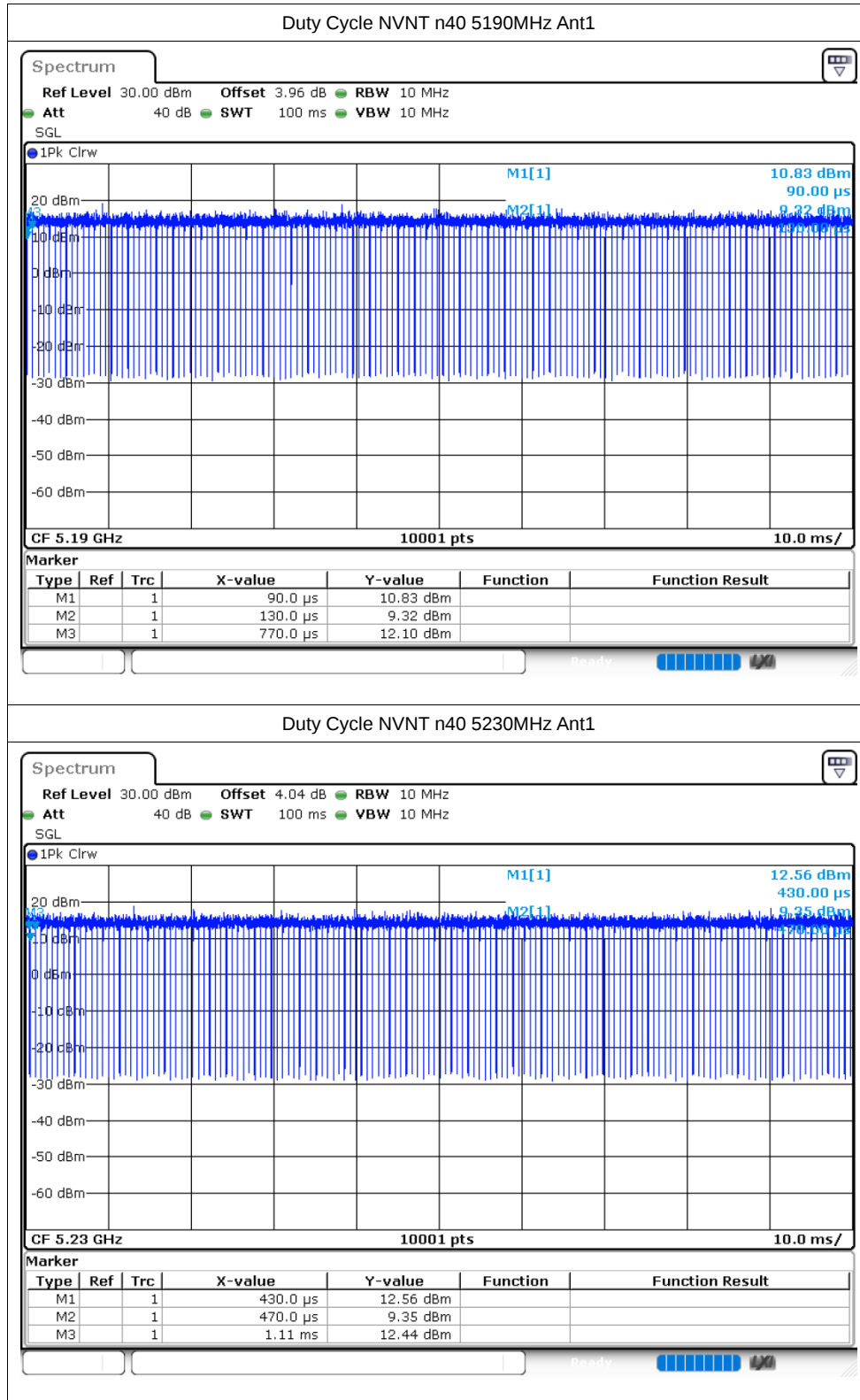


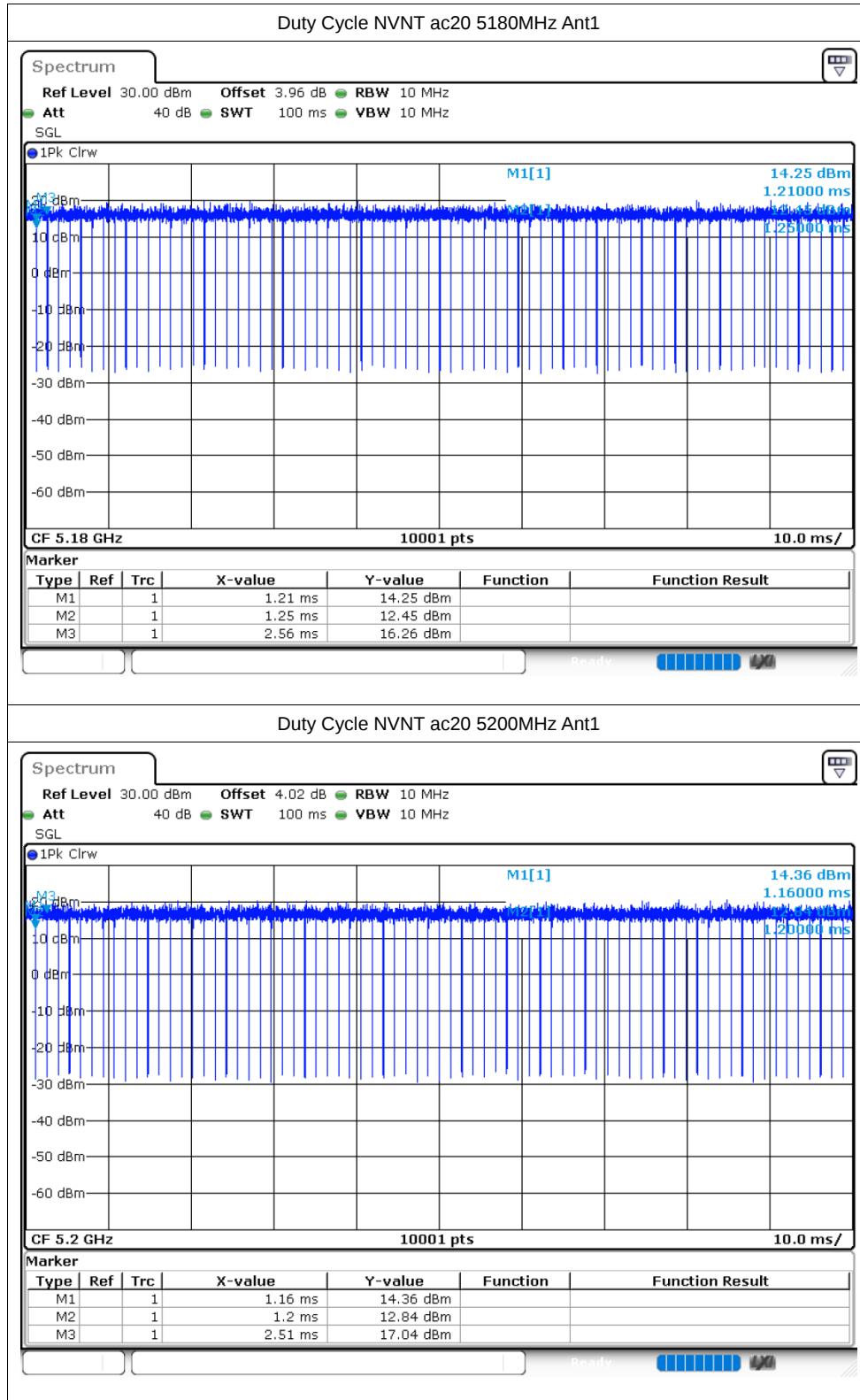
Marker

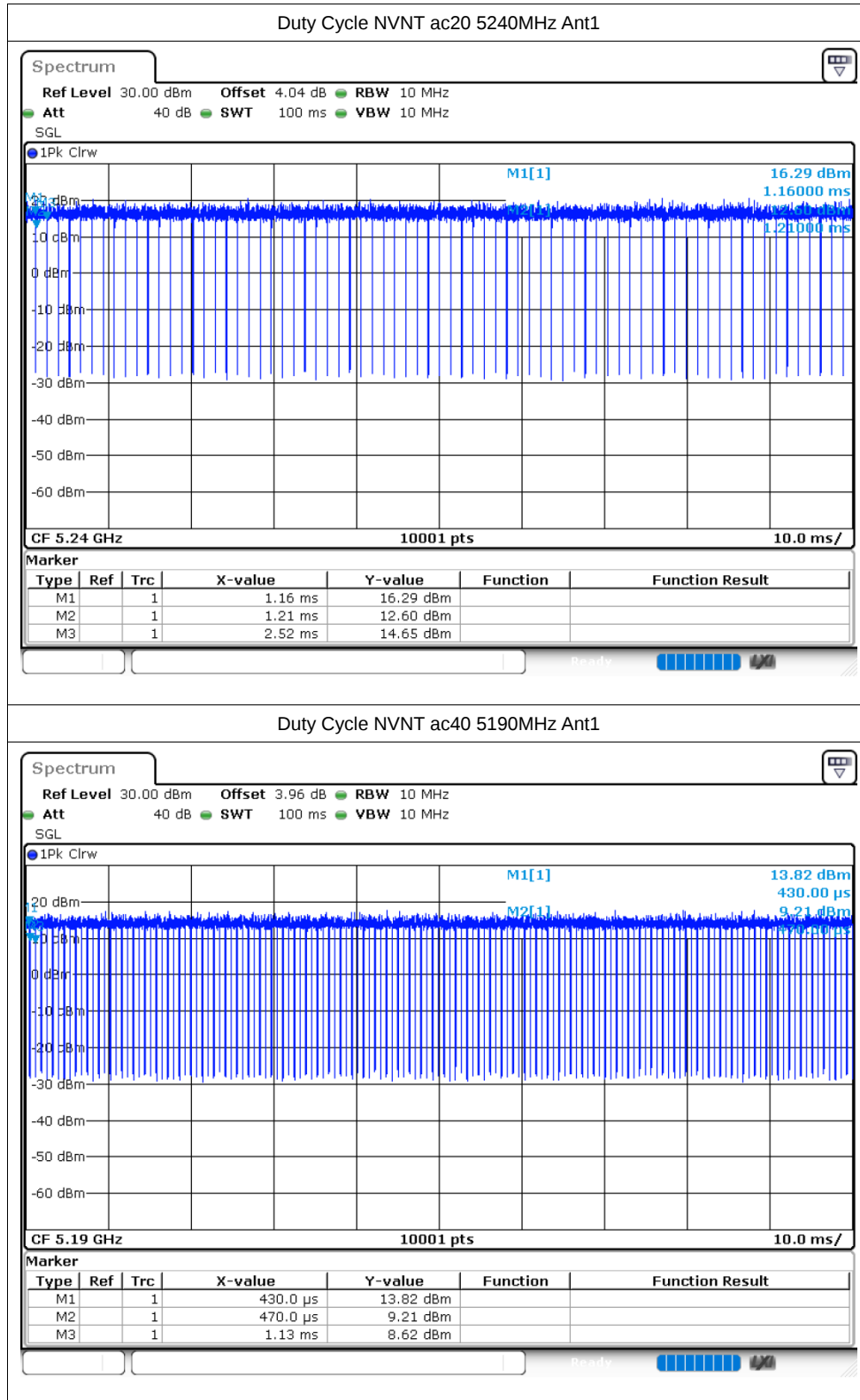
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.08 ms	17.42 dBm		
M2	1		1.12 ms	12.58 dBm		
M3	1		2.52 ms	4.94 dBm		

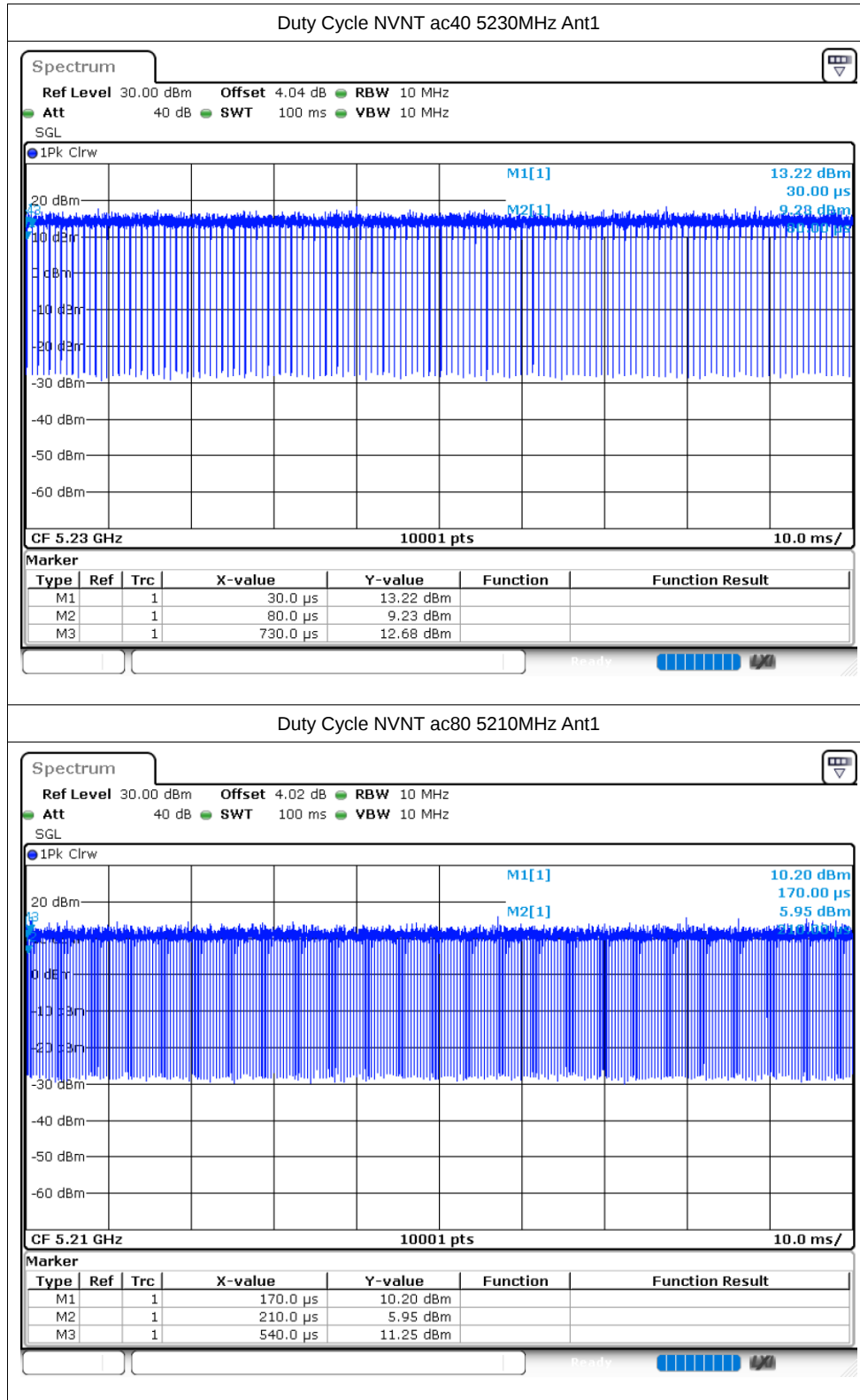












Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.97	0.11	13.08	24	Pass
NVNT	a	5200	Ant1	12.23	0.11	12.34	24	Pass
NVNT	a	5240	Ant1	12.67	0.11	12.78	24	Pass
NVNT	n20	5180	Ant1	12.19	0.11	12.3	24	Pass
NVNT	n20	5200	Ant1	12.3	0.11	12.41	24	Pass
NVNT	n20	5240	Ant1	12.4	0.11	12.51	24	Pass
NVNT	n40	5190	Ant1	12.22	0.21	12.43	24	Pass
NVNT	n40	5230	Ant1	12.28	0.21	12.49	24	Pass
NVNT	ac20	5180	Ant1	12.22	0.11	12.33	24	Pass
NVNT	ac20	5200	Ant1	12.3	0.11	12.41	24	Pass
NVNT	ac20	5240	Ant1	12.35	0.11	12.46	24	Pass
NVNT	ac40	5190	Ant1	12.35	0.22	12.57	24	Pass
NVNT	ac40	5230	Ant1	12.36	0.22	12.58	24	Pass
NVNT	ac80	5210	Ant1	12.29	0.43	12.72	24	Pass

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.154	Pass
NVNT	a	5200	Ant1	19.785	Pass
NVNT	a	5240	Ant1	19.908	Pass
NVNT	n20	5180	Ant1	20.22	Pass
NVNT	n20	5200	Ant1	20.043	Pass
NVNT	n20	5240	Ant1	20.424	Pass
NVNT	n40	5190	Ant1	40.482	Pass
NVNT	n40	5230	Ant1	40.824	Pass
NVNT	ac20	5180	Ant1	20.133	Pass
NVNT	ac20	5200	Ant1	19.845	Pass
NVNT	ac20	5240	Ant1	20.034	Pass
NVNT	ac40	5190	Ant1	40.83	Pass
NVNT	ac40	5230	Ant1	40.764	Pass
NVNT	ac80	5210	Ant1	81.3	Pass

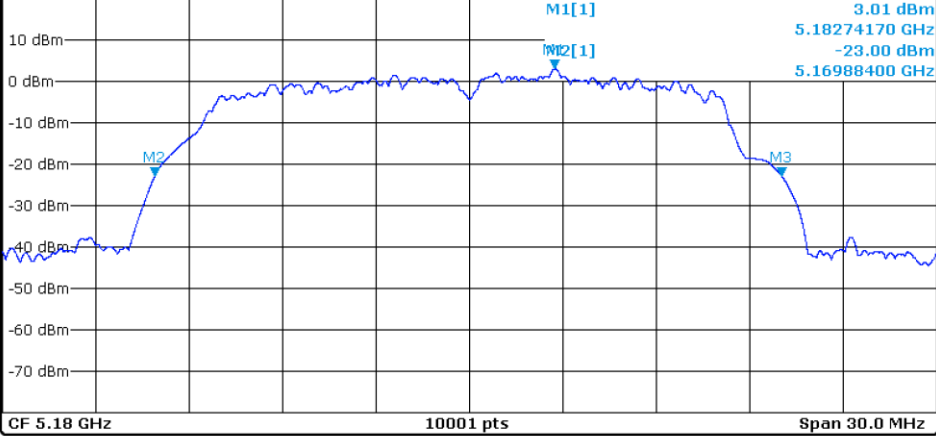
Test Graphs

-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

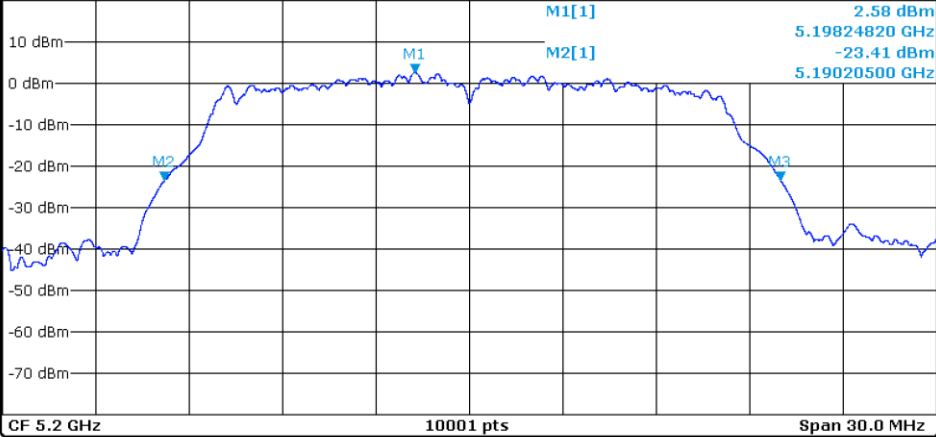
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1827417 GHz	3.01 dBm		
M2	1		5.169884 GHz	-23.00 dBm		
M3	1		5.190038 GHz	-22.98 dBm		

-26dB Bandwidth NVNT a 5200MHz Ant1

Spectrum

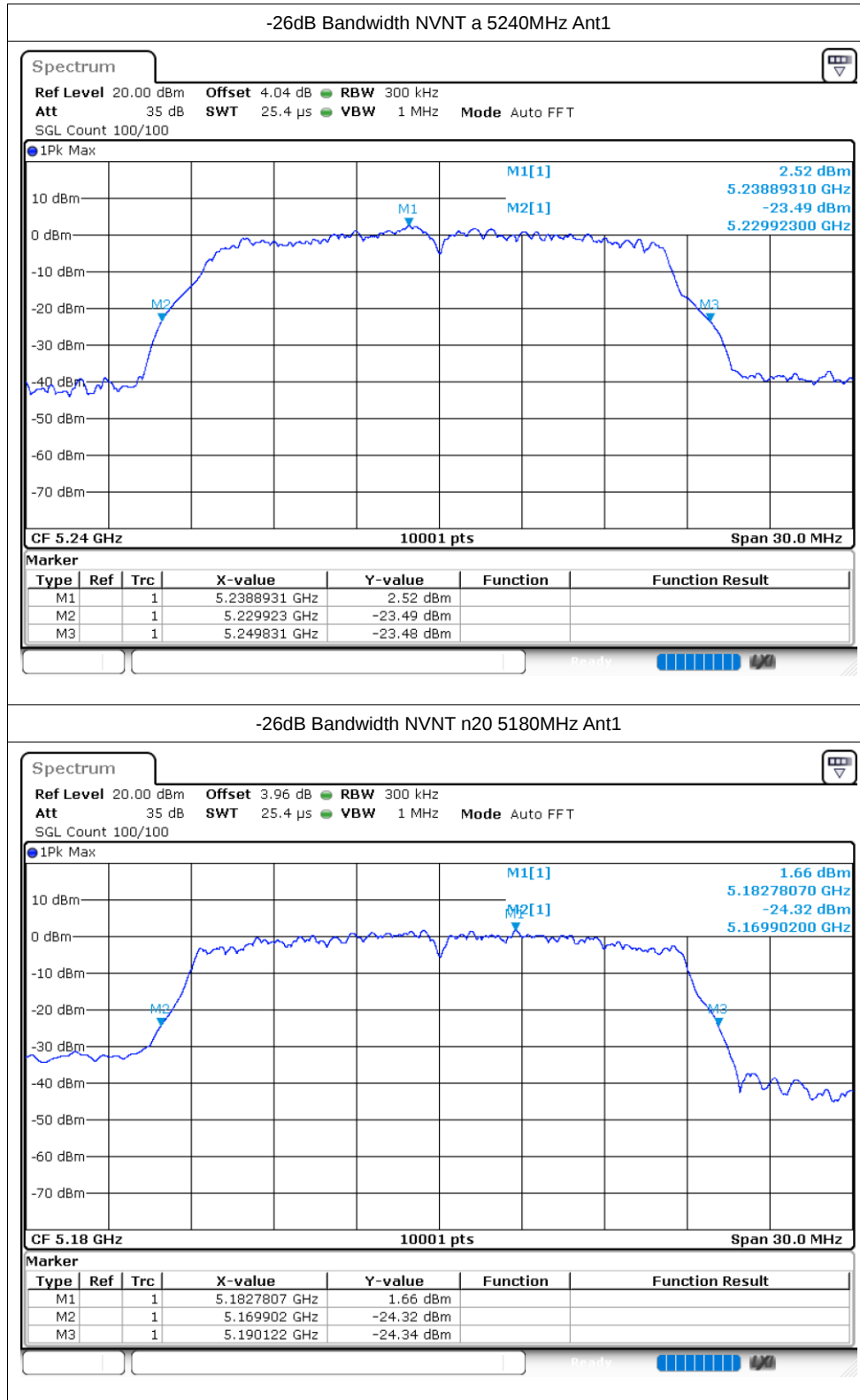
Ref Level 20.00 dBm Offset 4.02 dB RBW 300 kHz
 Att 35 dB SWT 25.4 μ s VBW 1 MHz Mode Auto FFT
 SGL Count 100/100

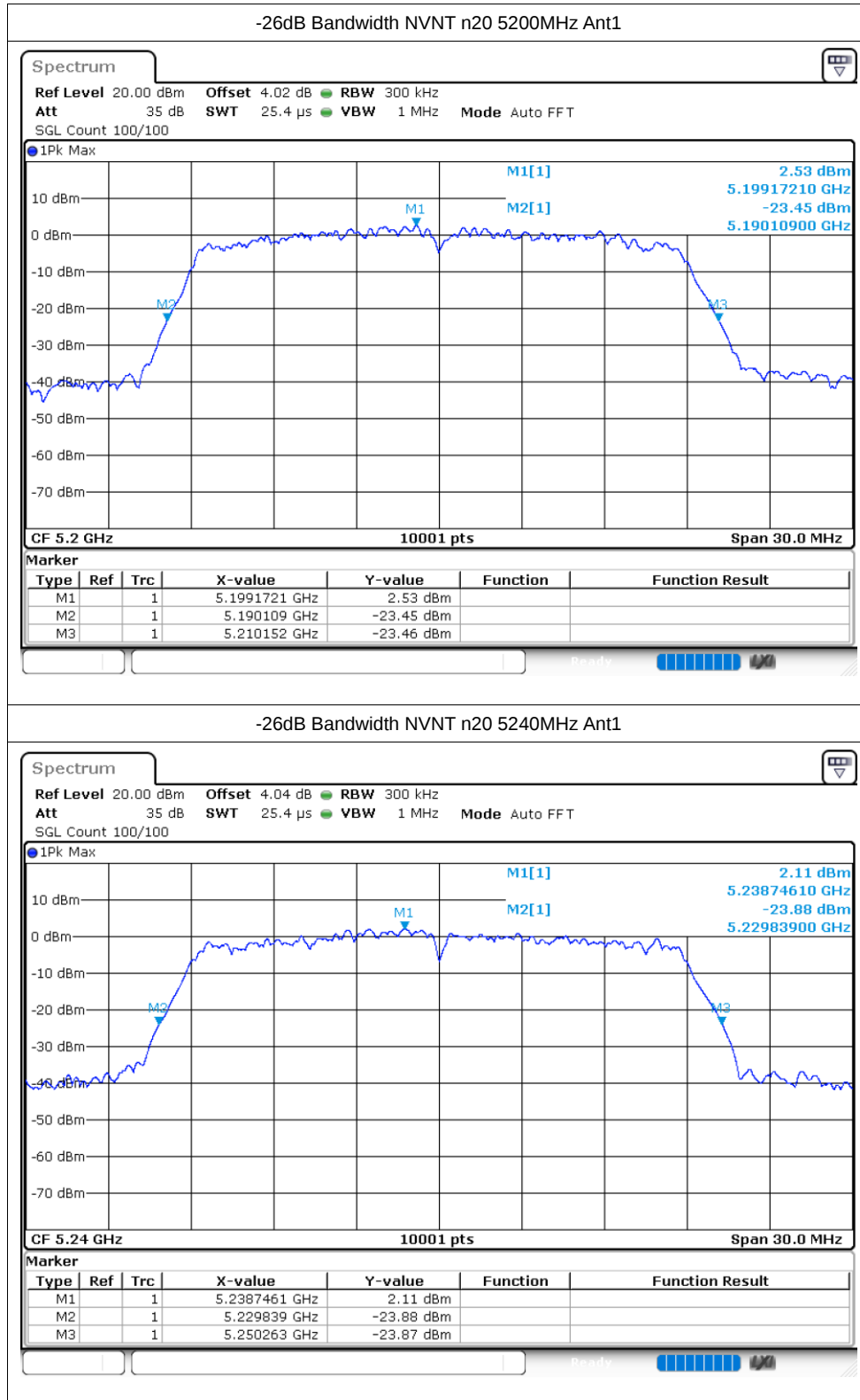
1Pk Max

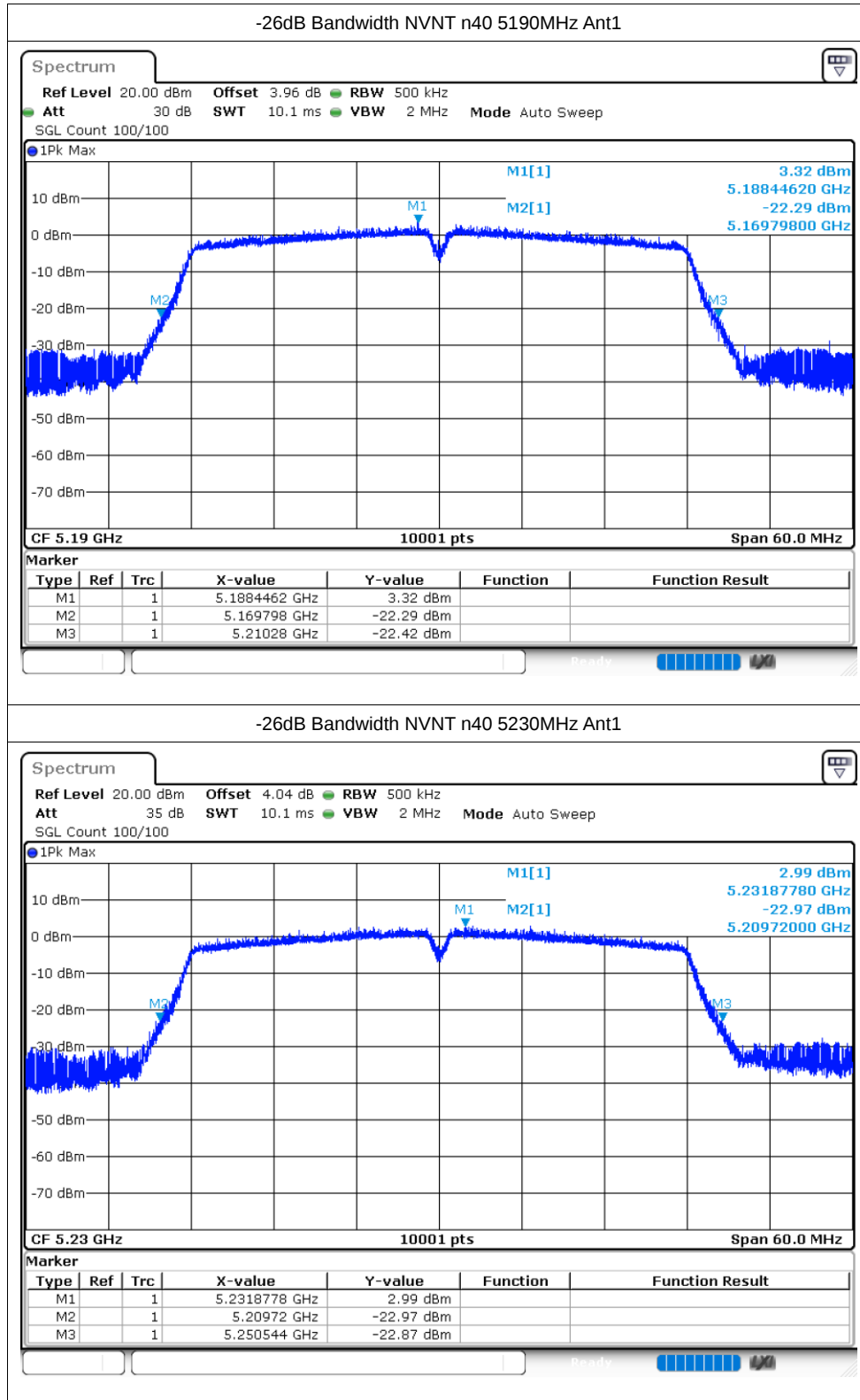


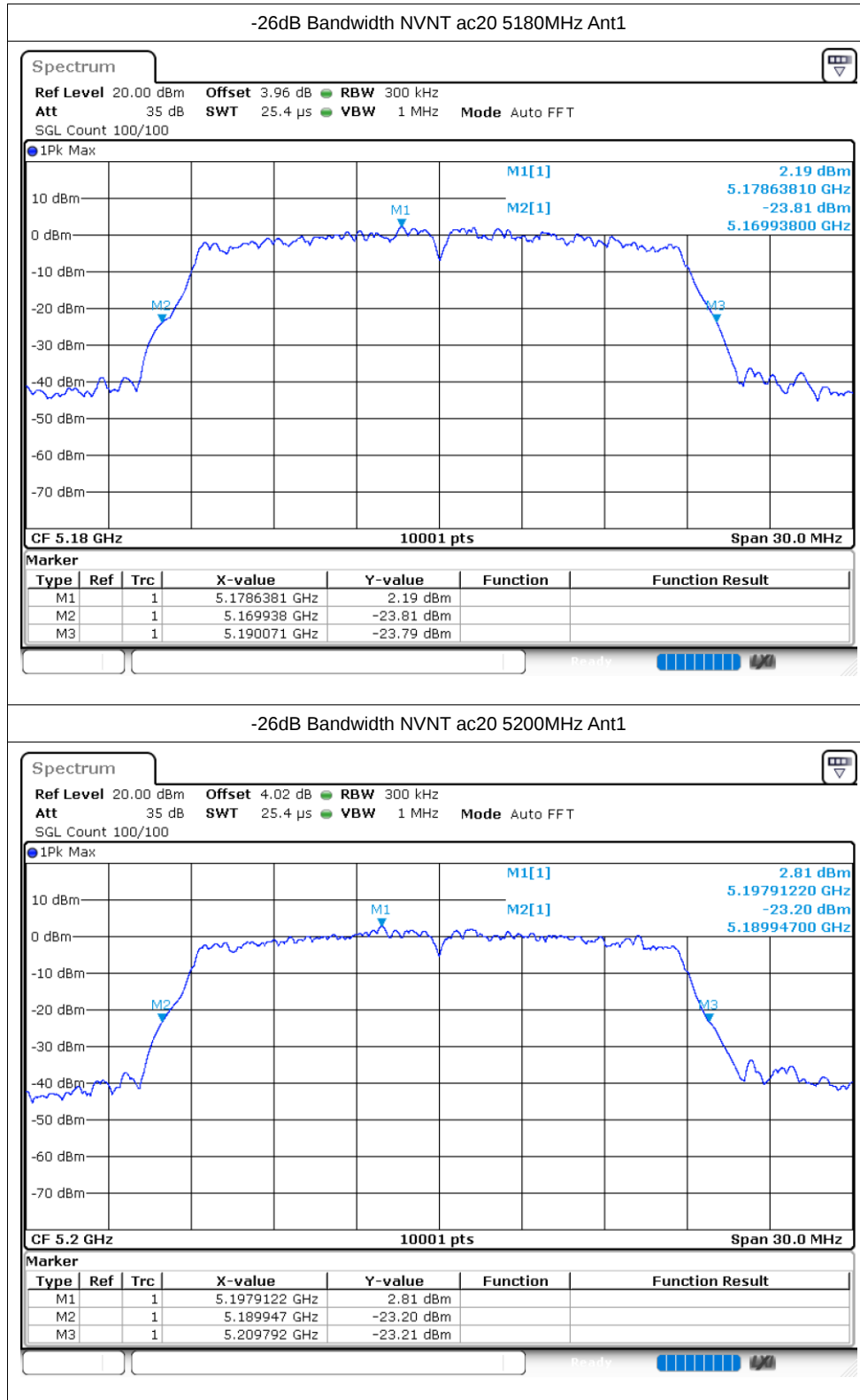
Marker

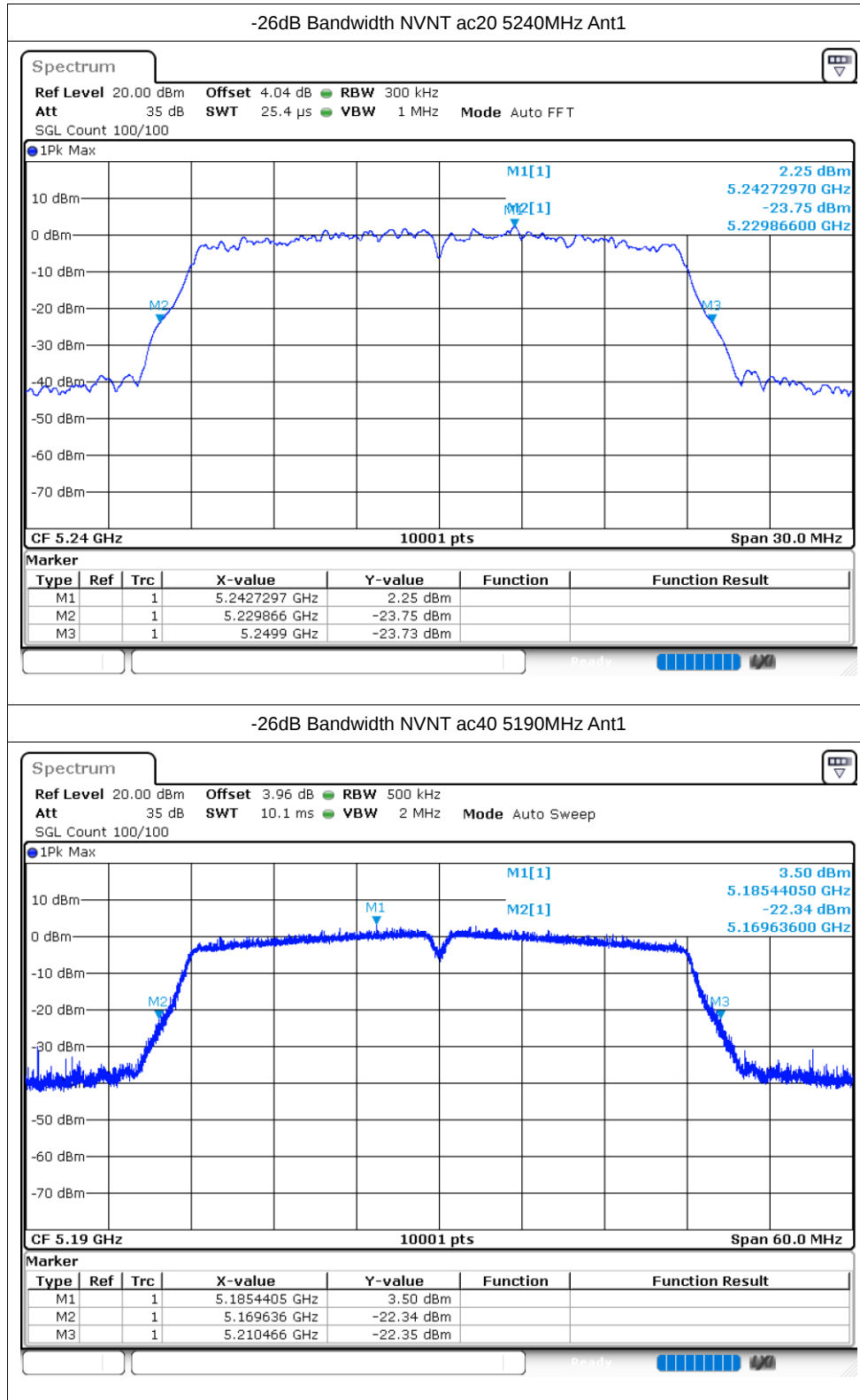
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		5.1982482 GHz	2.58 dBm		
M2	1		5.190205 GHz	-23.41 dBm		
M3	1		5.20999 GHz	-23.39 dBm		

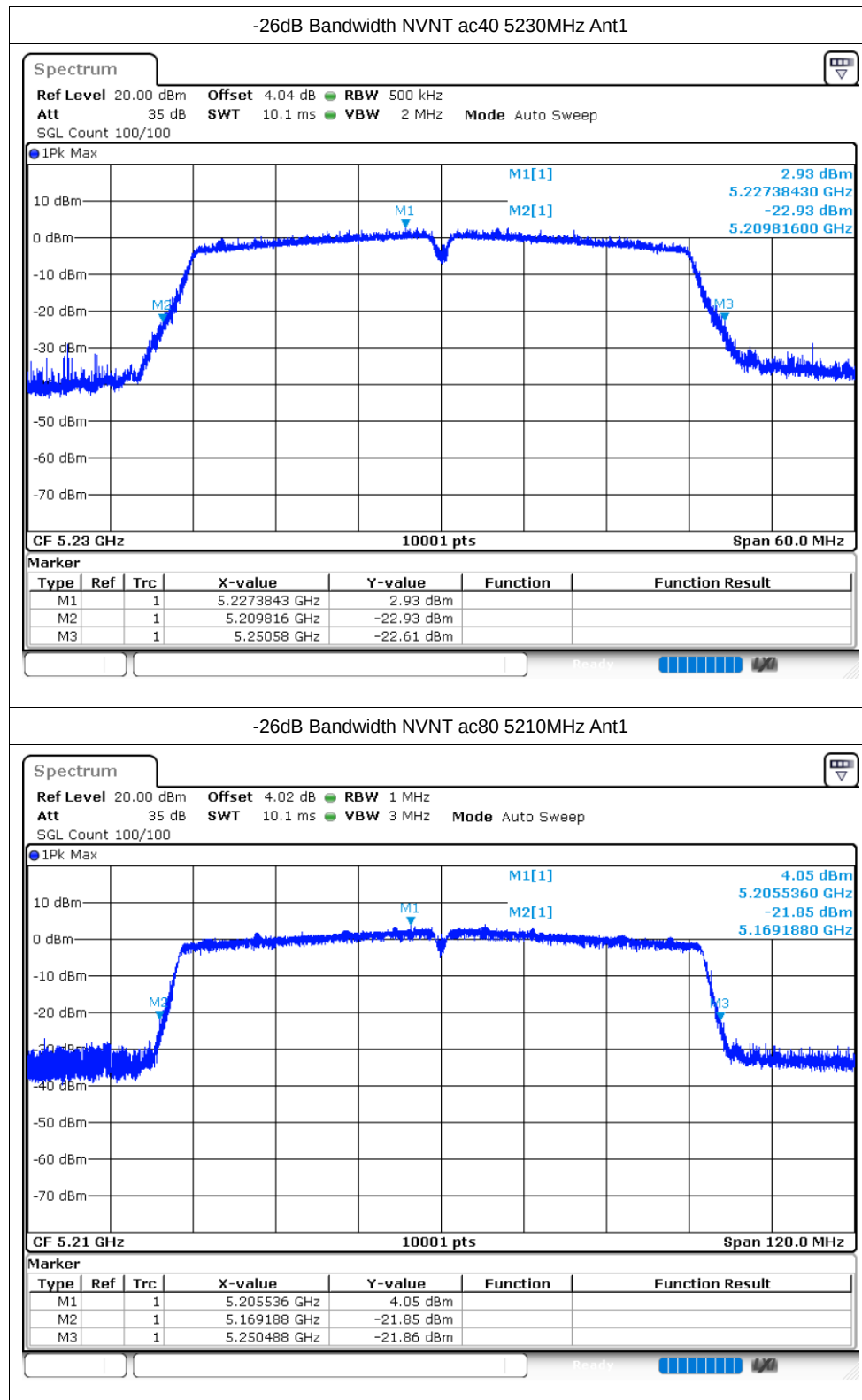










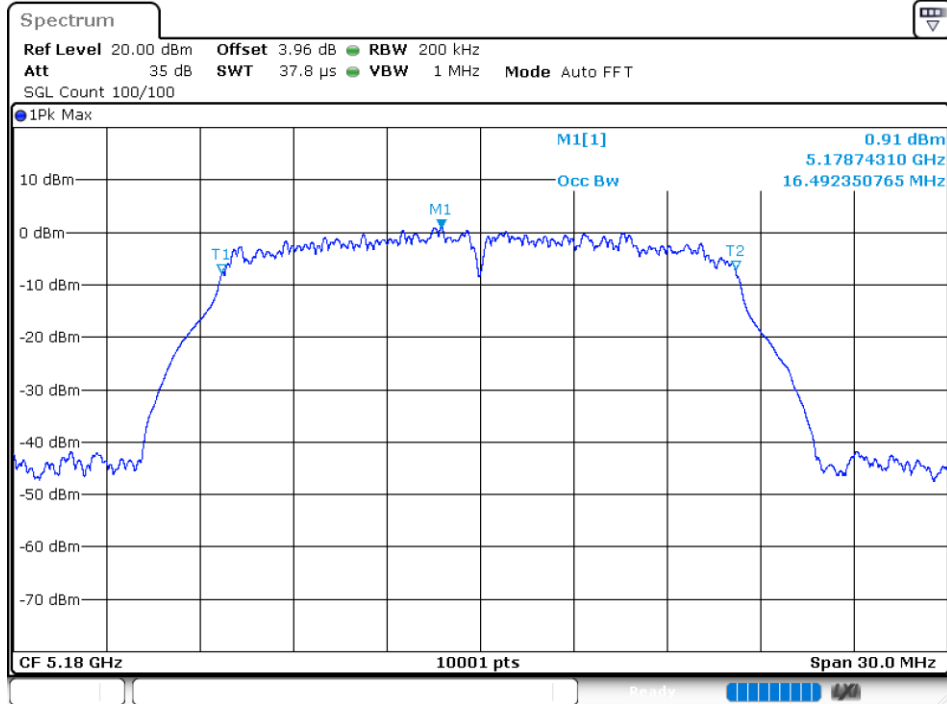


Occupied Channel Bandwidth

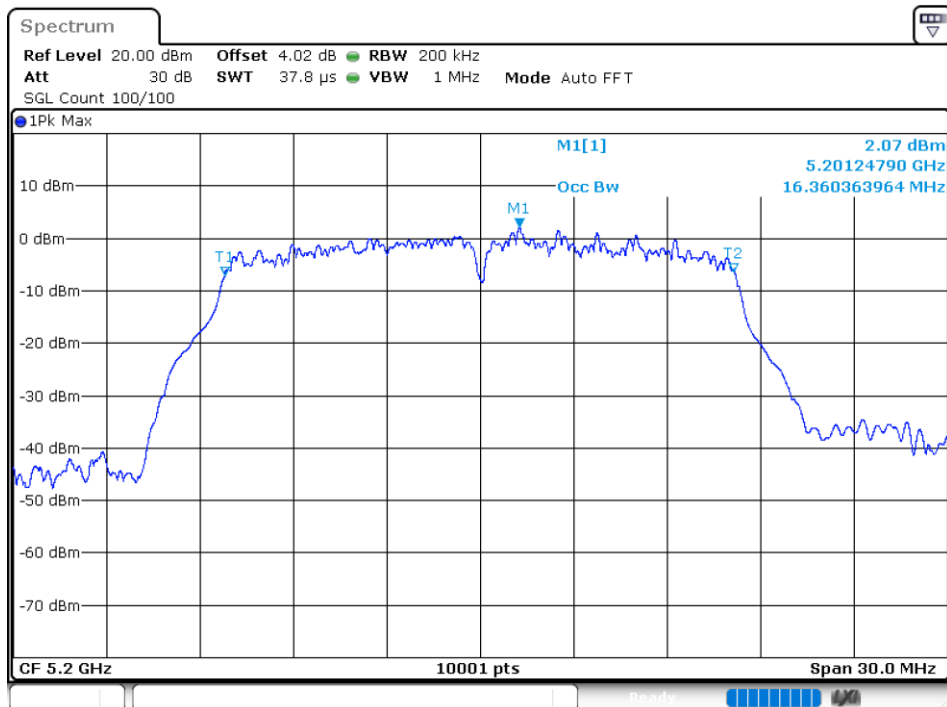
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.492
NVNT	a	5200	Ant1	16.36
NVNT	a	5240	Ant1	16.459
NVNT	n20	5180	Ant1	17.584
NVNT	n20	5200	Ant1	17.566
NVNT	n20	5240	Ant1	17.5
NVNT	n40	5190	Ant1	36.044
NVNT	n40	5230	Ant1	36.044
NVNT	ac20	5180	Ant1	17.539
NVNT	ac20	5200	Ant1	17.446
NVNT	ac20	5240	Ant1	17.569
NVNT	ac40	5190	Ant1	36.008
NVNT	ac40	5230	Ant1	36.008
NVNT	ac80	5210	Ant1	75.184

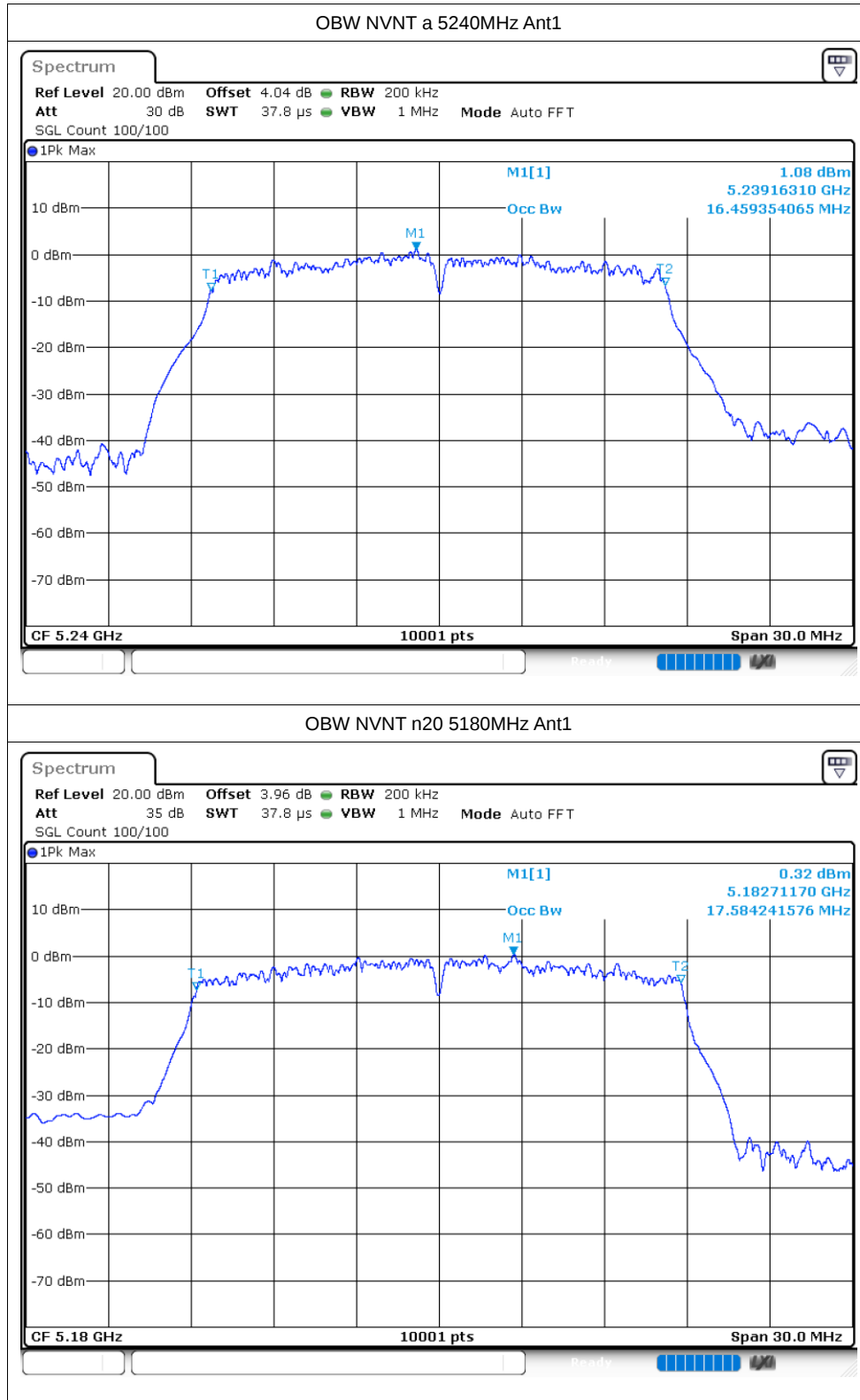
Test Graphs

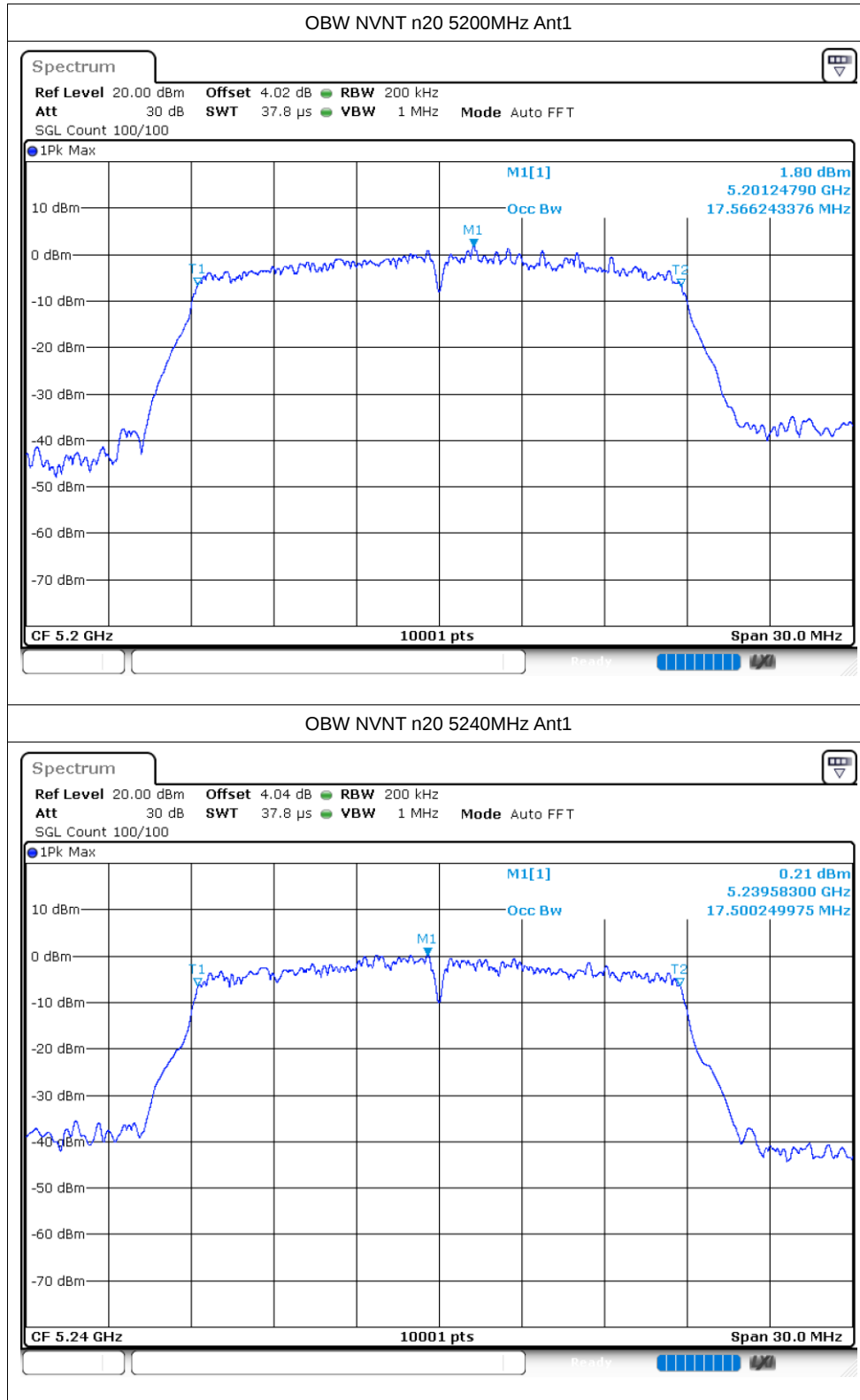
OBW NVNT a 5180MHz Ant1

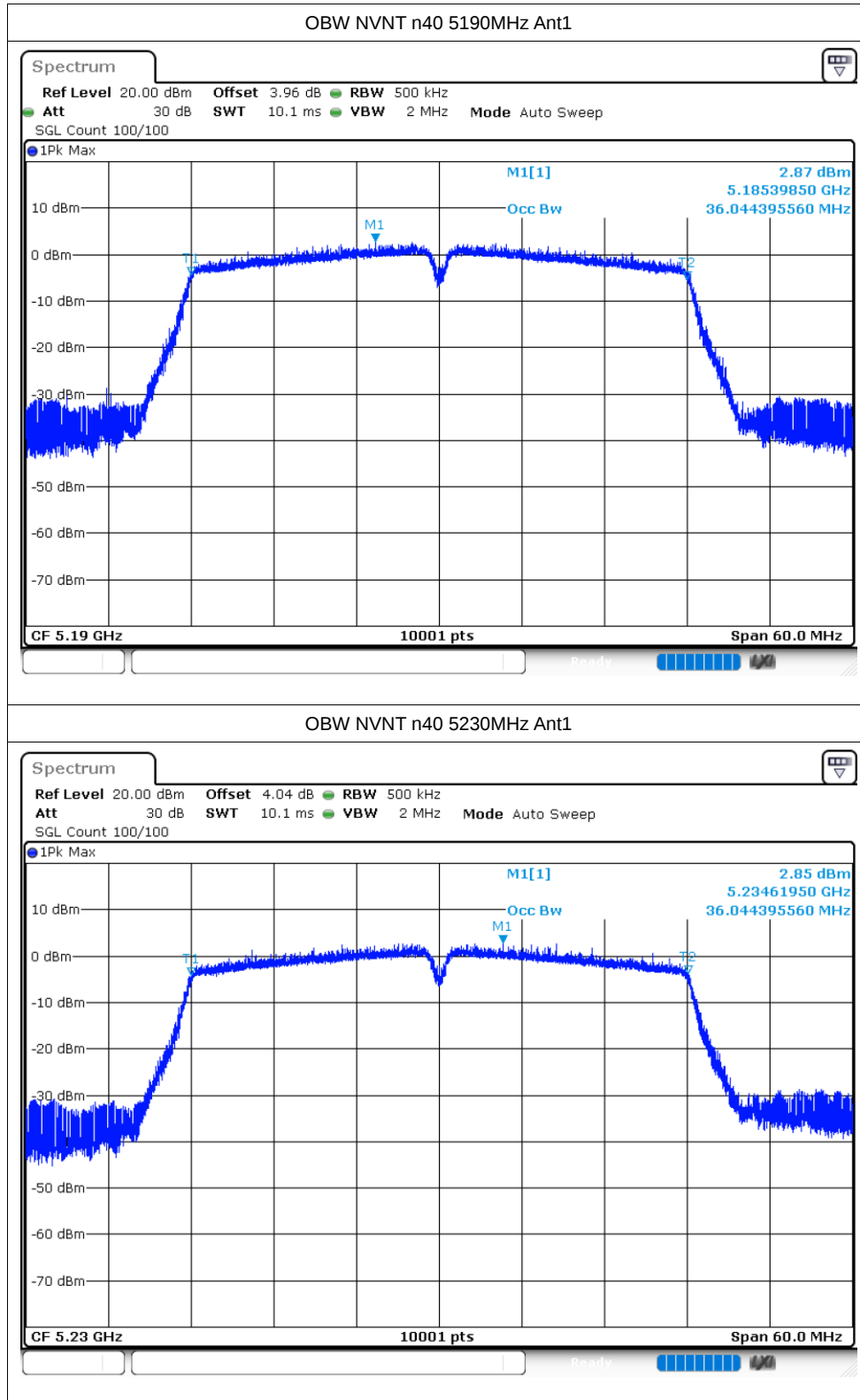


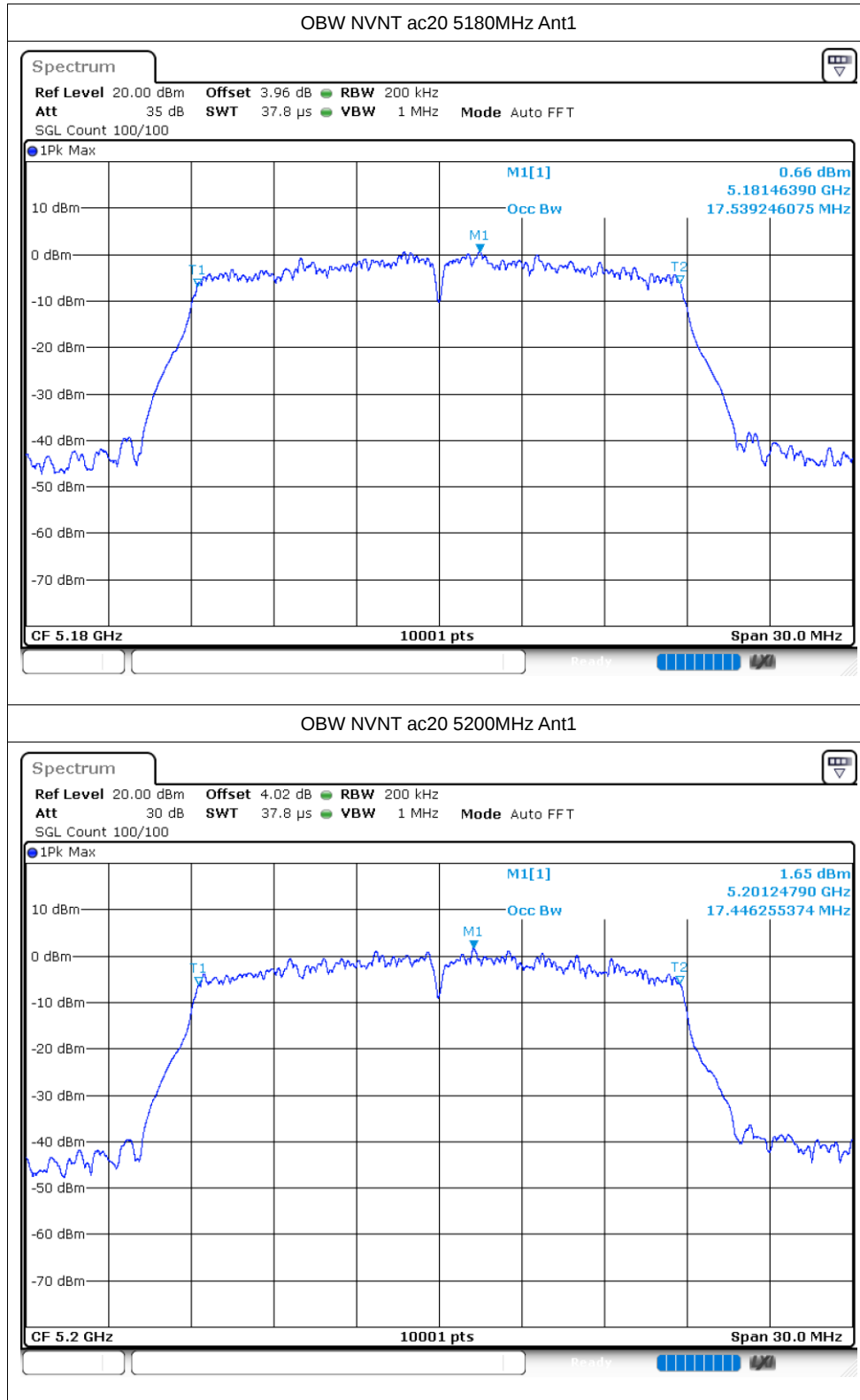
OBW NVNT a 5200MHz Ant1

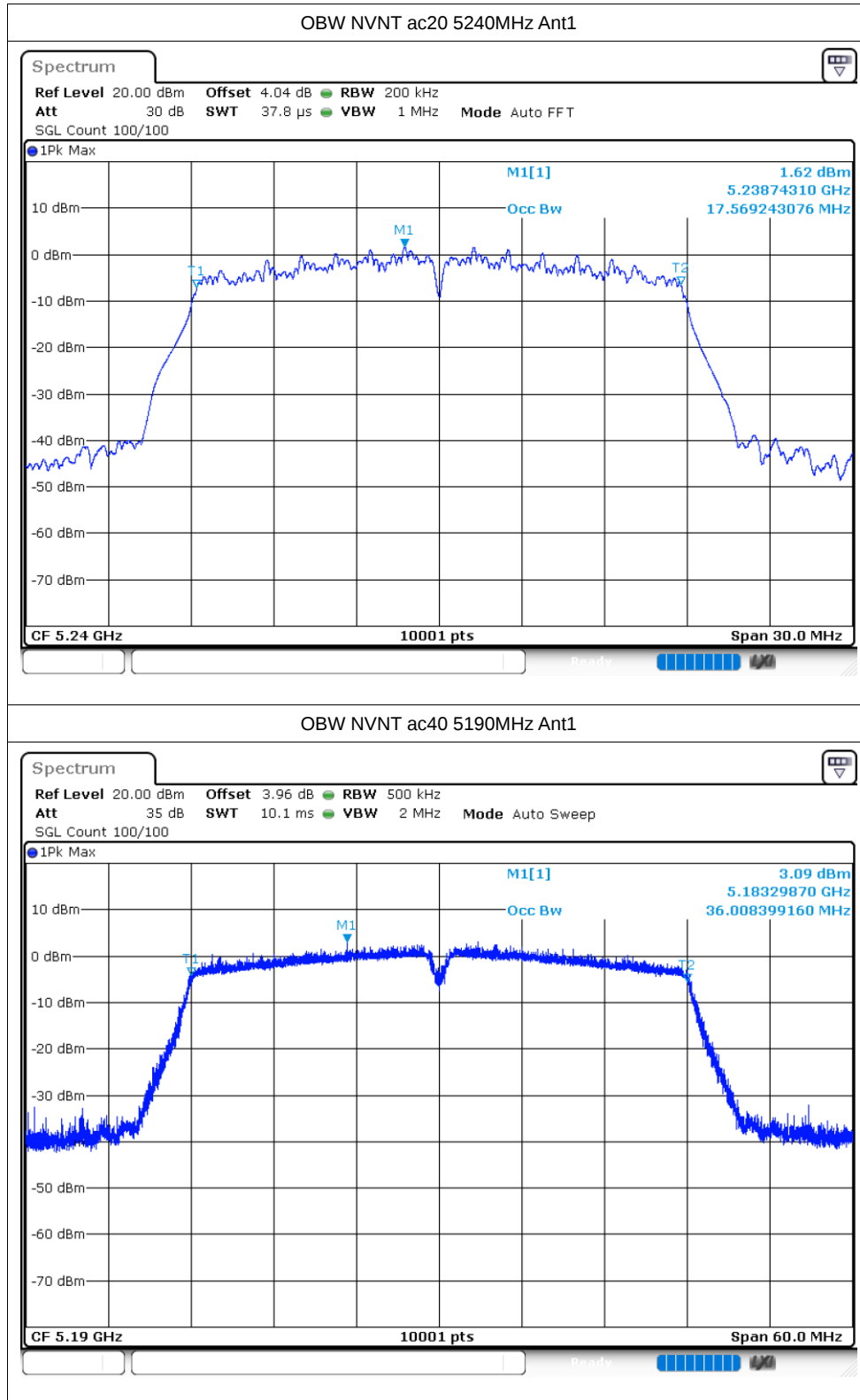


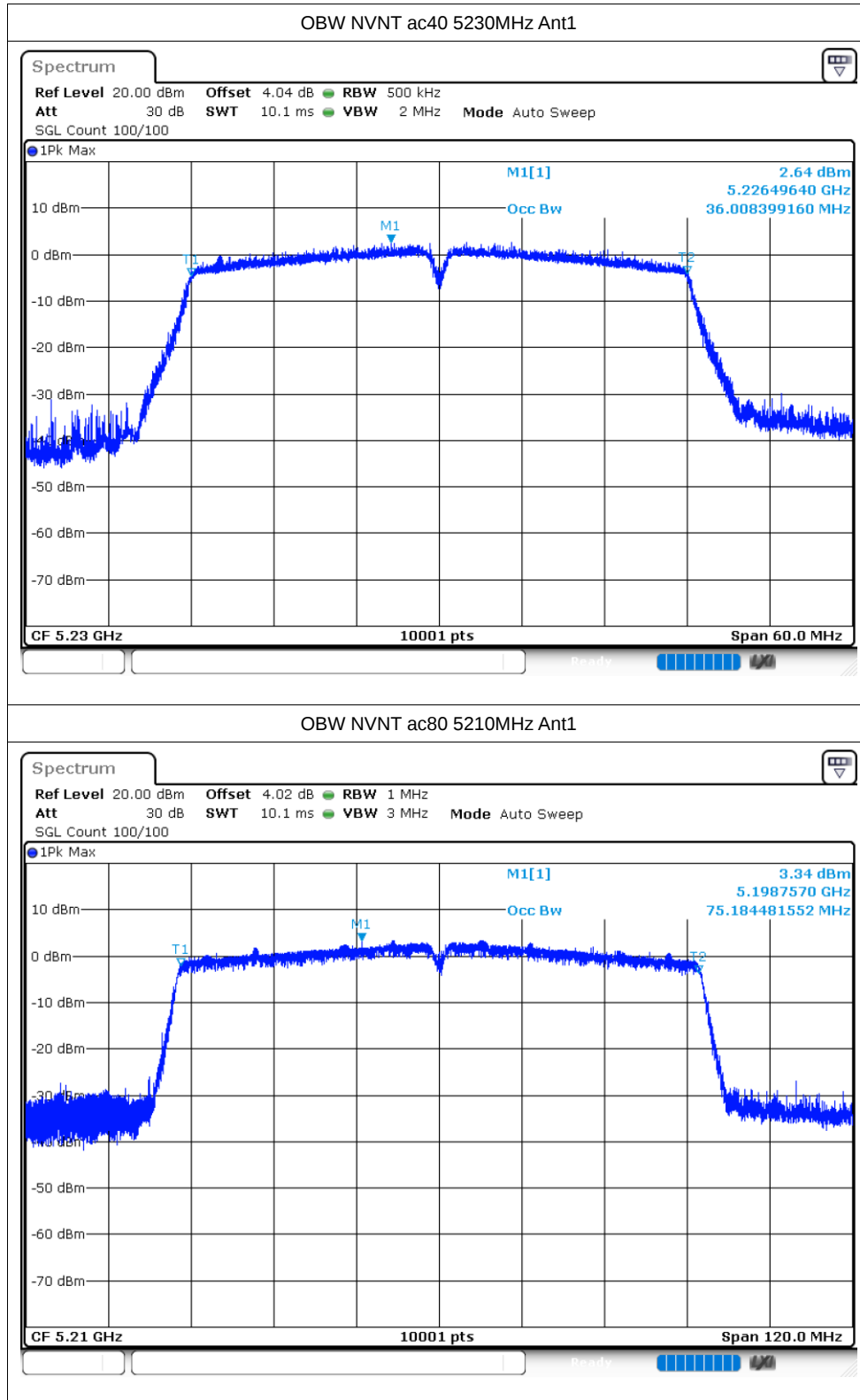










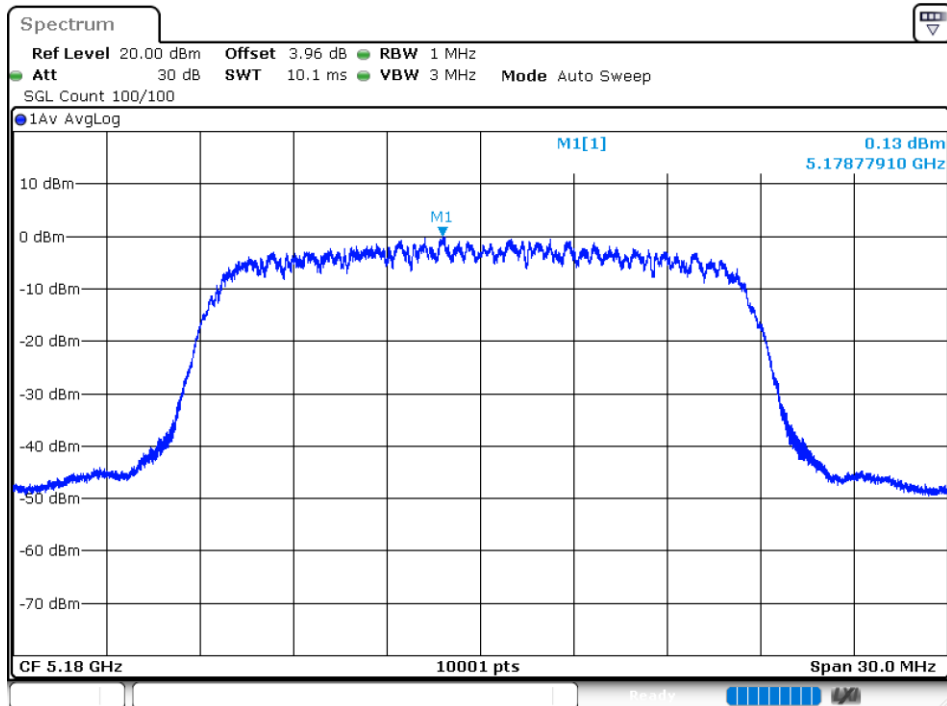


Maximum Power Spectral Density Level

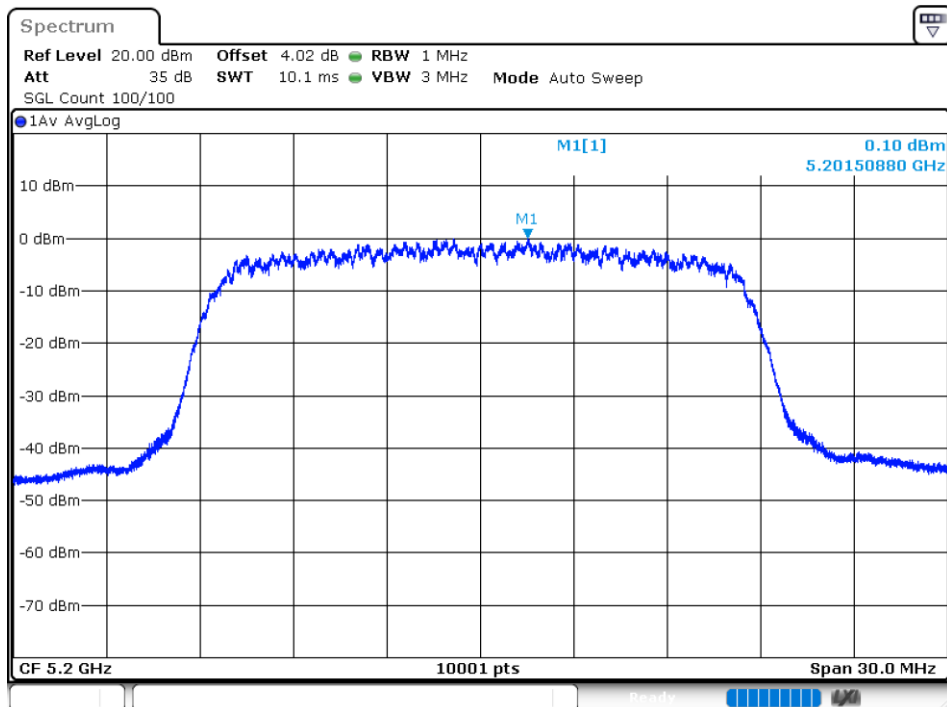
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	0.13	0.11	0.24	11	Pass
NVNT	a	5200	Ant1	0.1	0.11	0.21	11	Pass
NVNT	a	5240	Ant1	-0.69	0.11	-0.58	11	Pass
NVNT	n20	5180	Ant1	-0.54	0.11	-0.43	11	Pass
NVNT	n20	5200	Ant1	-0.62	0.11	-0.51	11	Pass
NVNT	n20	5240	Ant1	-0.72	0.11	-0.61	11	Pass
NVNT	n40	5190	Ant1	-4.2	0.21	-3.99	11	Pass
NVNT	n40	5230	Ant1	-4.55	0.21	-4.34	11	Pass
NVNT	ac20	5180	Ant1	-0.96	0.11	-0.85	11	Pass
NVNT	ac20	5200	Ant1	-0.11	0.11	0	11	Pass
NVNT	ac20	5240	Ant1	-0.92	0.11	-0.81	11	Pass
NVNT	ac40	5190	Ant1	-3.72	0.22	-3.5	11	Pass
NVNT	ac40	5230	Ant1	-4.17	0.22	-3.95	11	Pass
NVNT	ac80	5210	Ant1	-8.62	0.43	-8.19	11	Pass

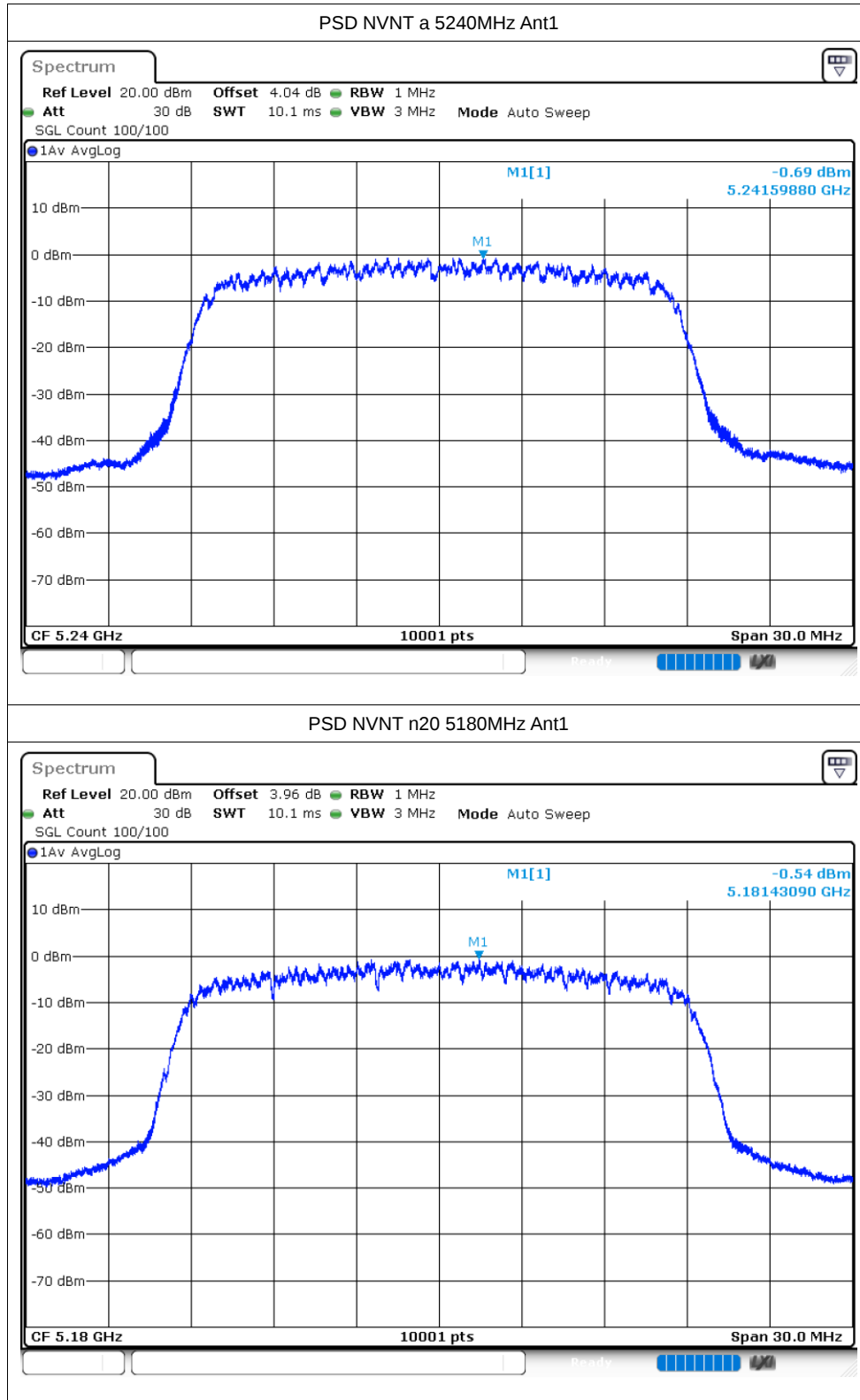
Test Graphs

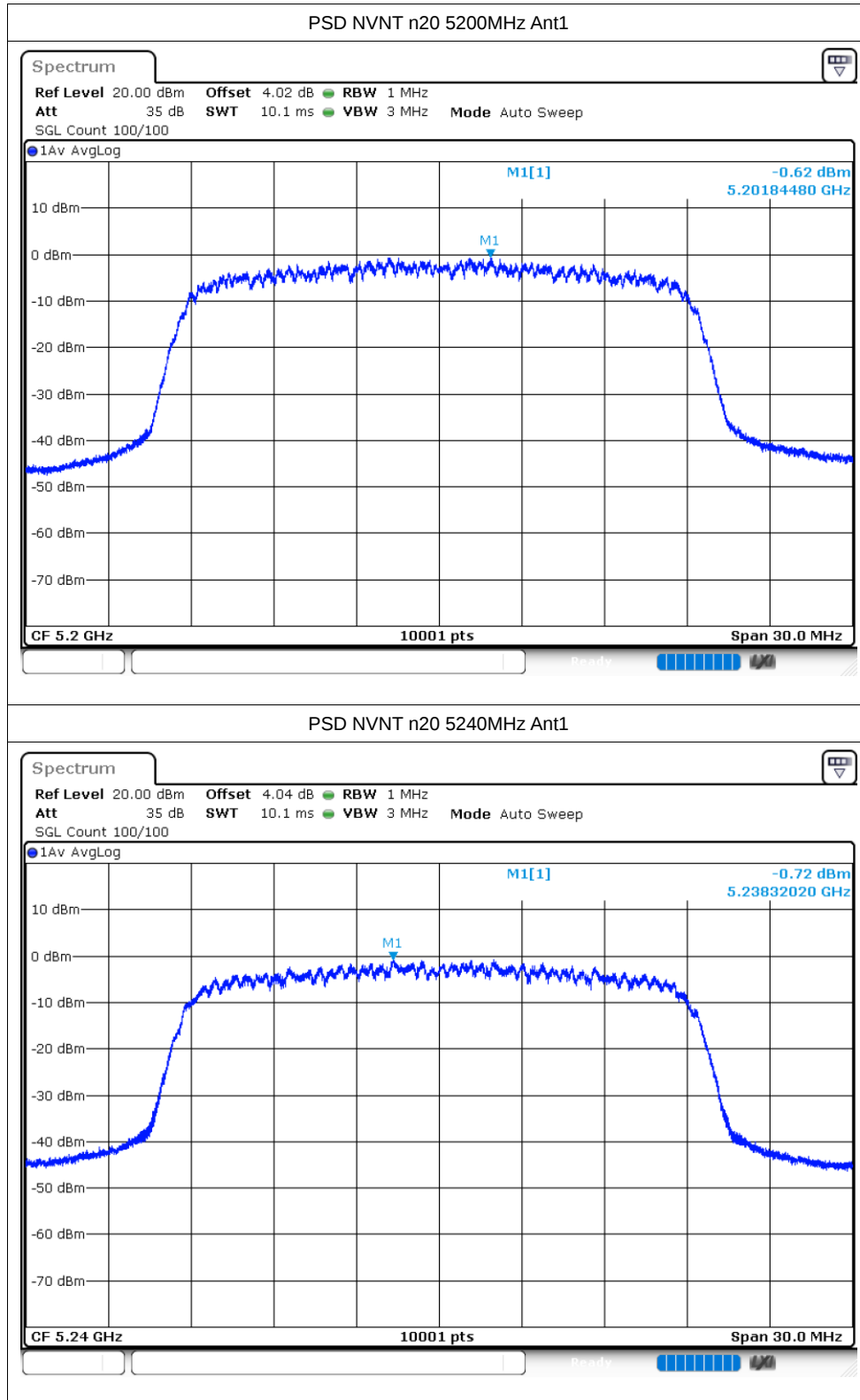
PSD NVNT a 5180MHz Ant1

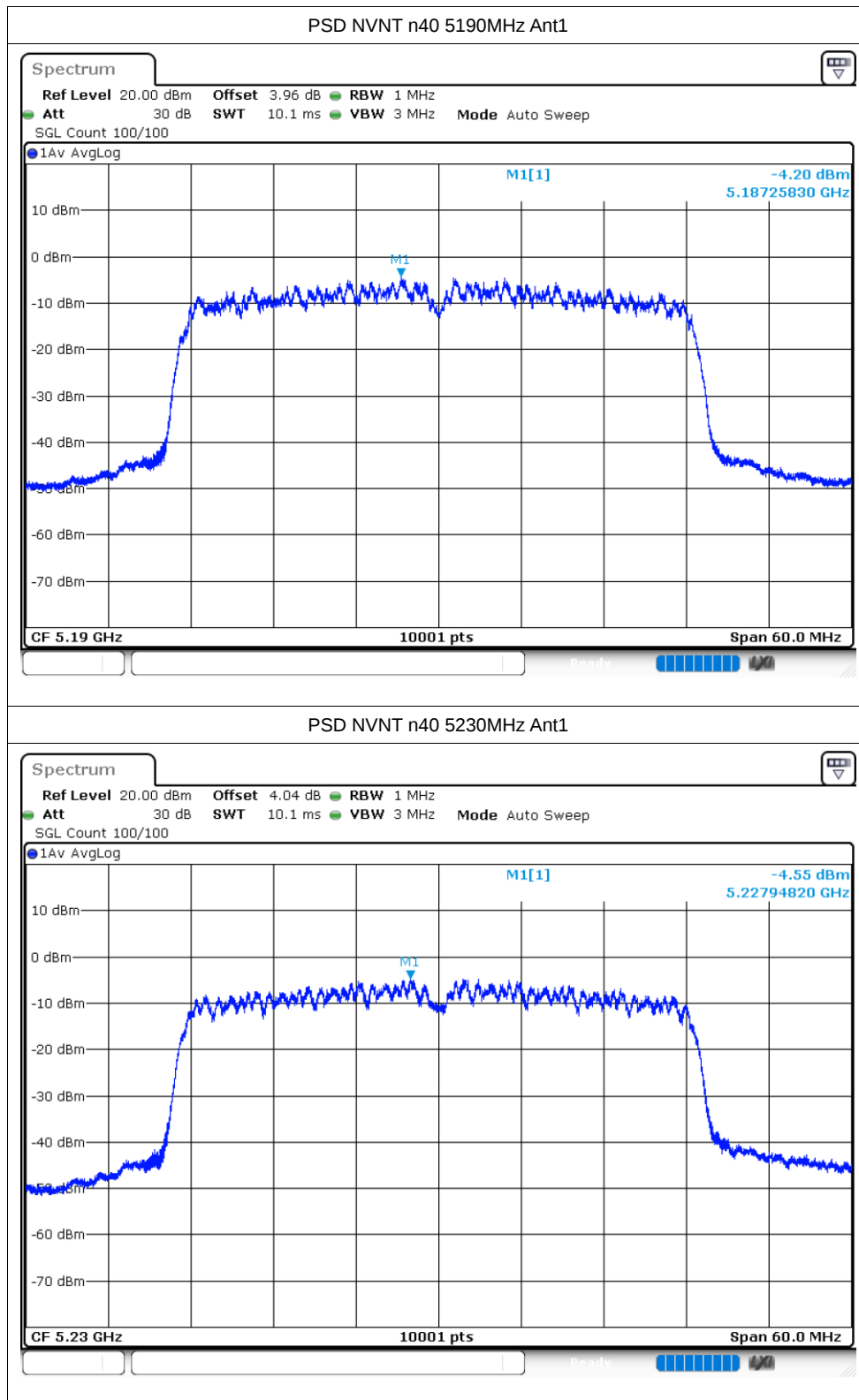


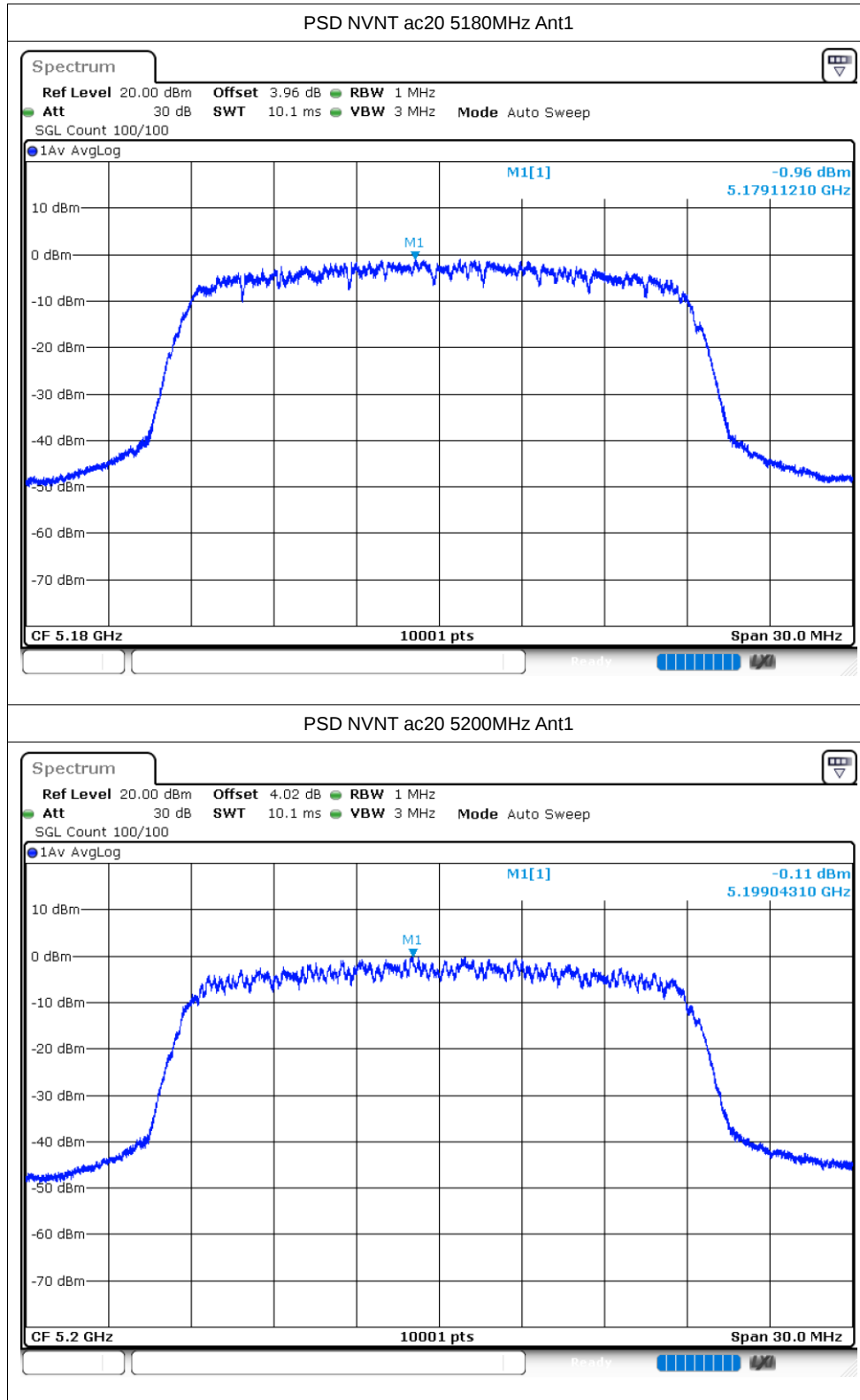
PSD NVNT a 5200MHz Ant1

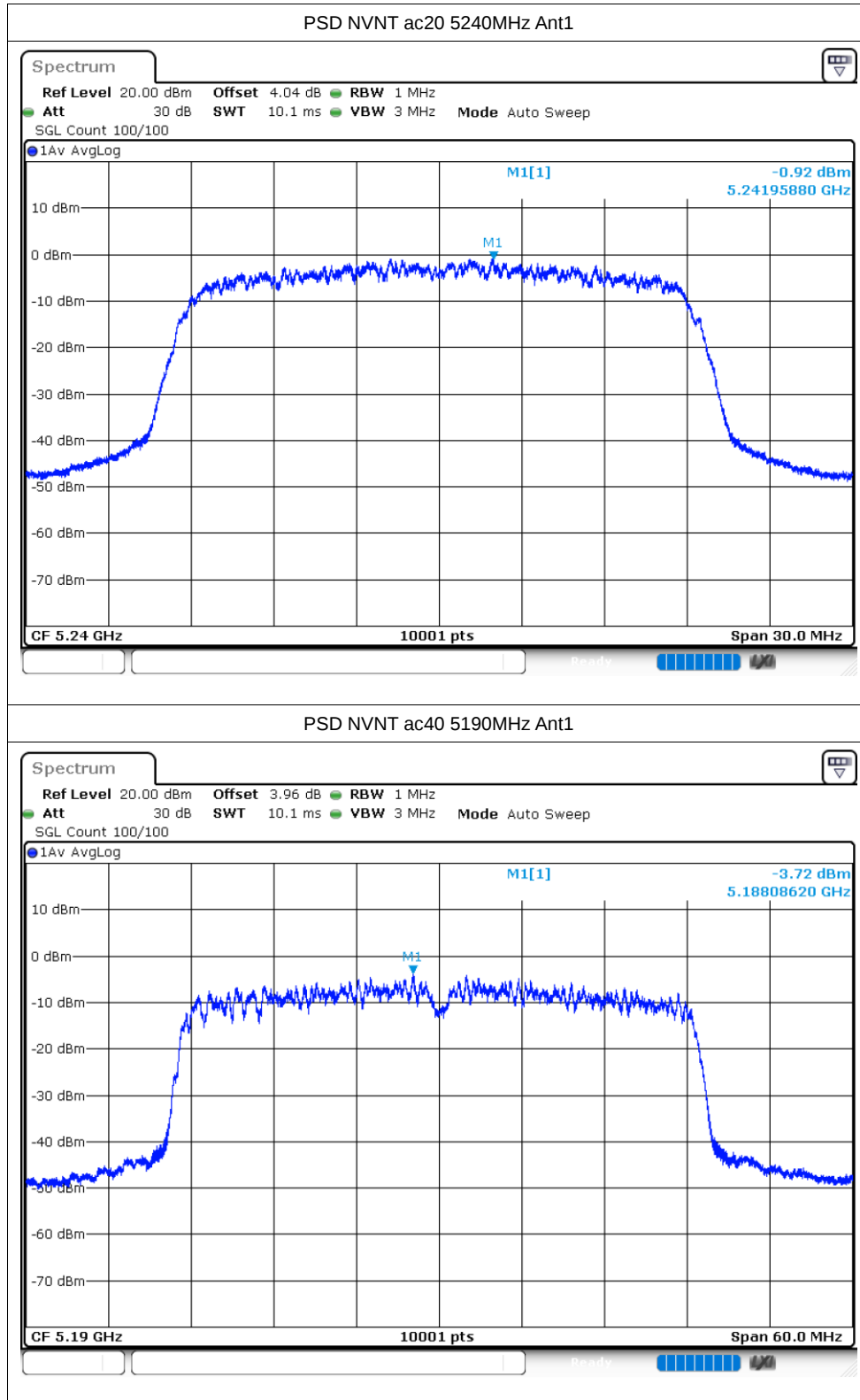


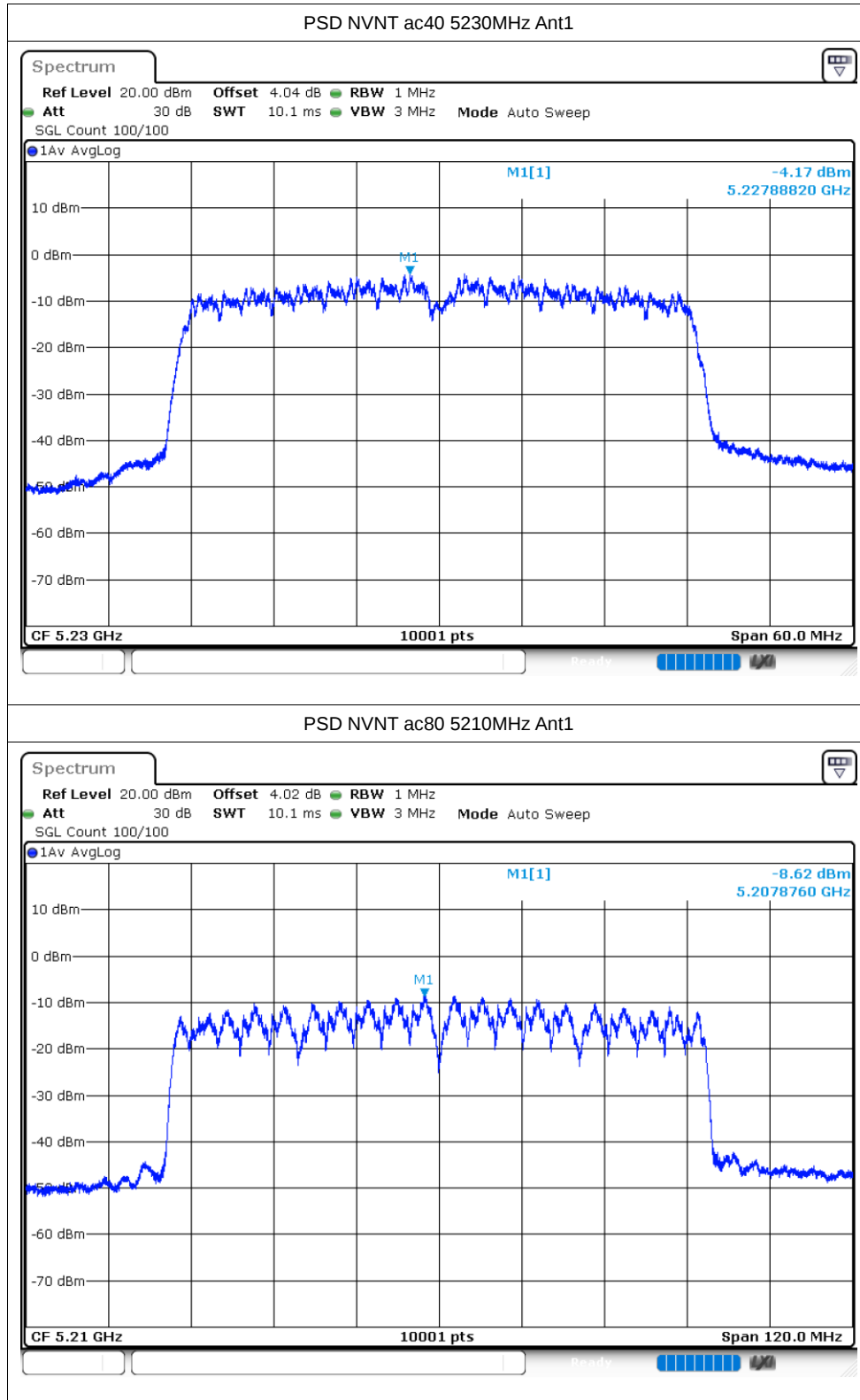










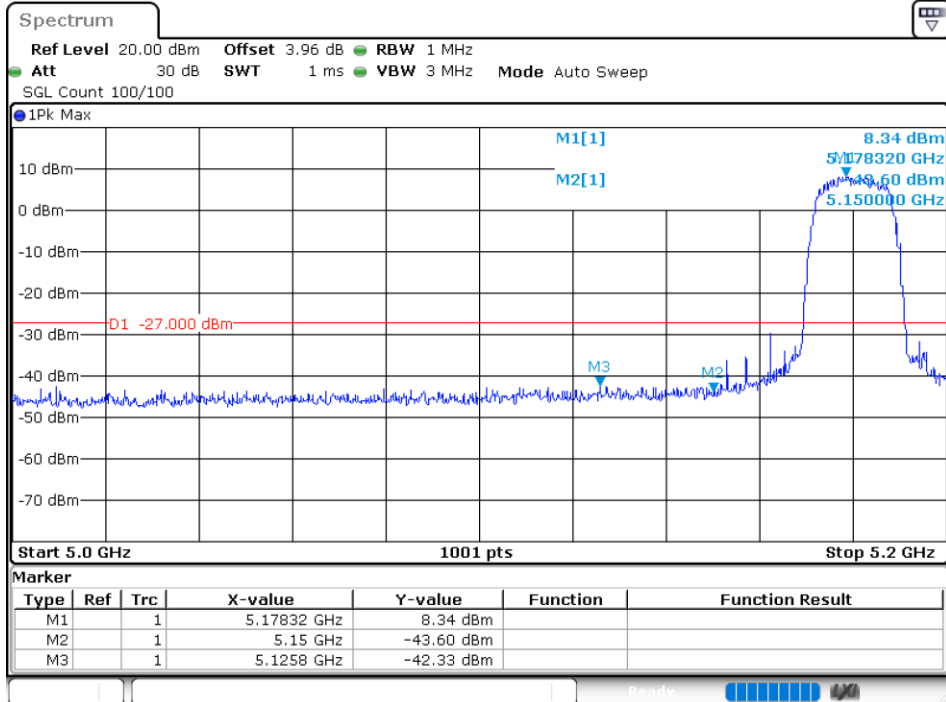


Band Edge

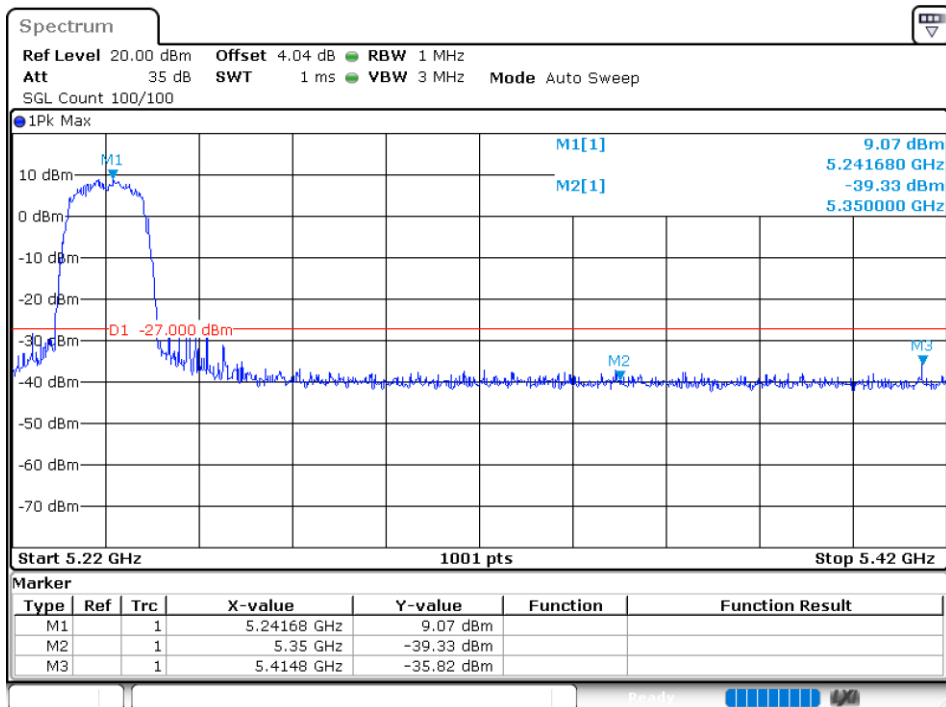
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-42.33	-27	Pass
NVNT	a	5240	Ant1	-35.81	-27	Pass
NVNT	n20	5180	Ant1	-38.14	-27	Pass
NVNT	n20	5240	Ant1	-42.72	-27	Pass
NVNT	n40	5190	Ant1	-33.95	-27	Pass
NVNT	n40	5230	Ant1	-42.49	-27	Pass
NVNT	ac20	5180	Ant1	-40.12	-27	Pass
NVNT	ac20	5240	Ant1	-42.3	-27	Pass
NVNT	ac40	5190	Ant1	-37.21	-27	Pass
NVNT	ac40	5230	Ant1	-42.33	-27	Pass
NVNT	ac80	5210	Ant1	-42.76	-27	Pass

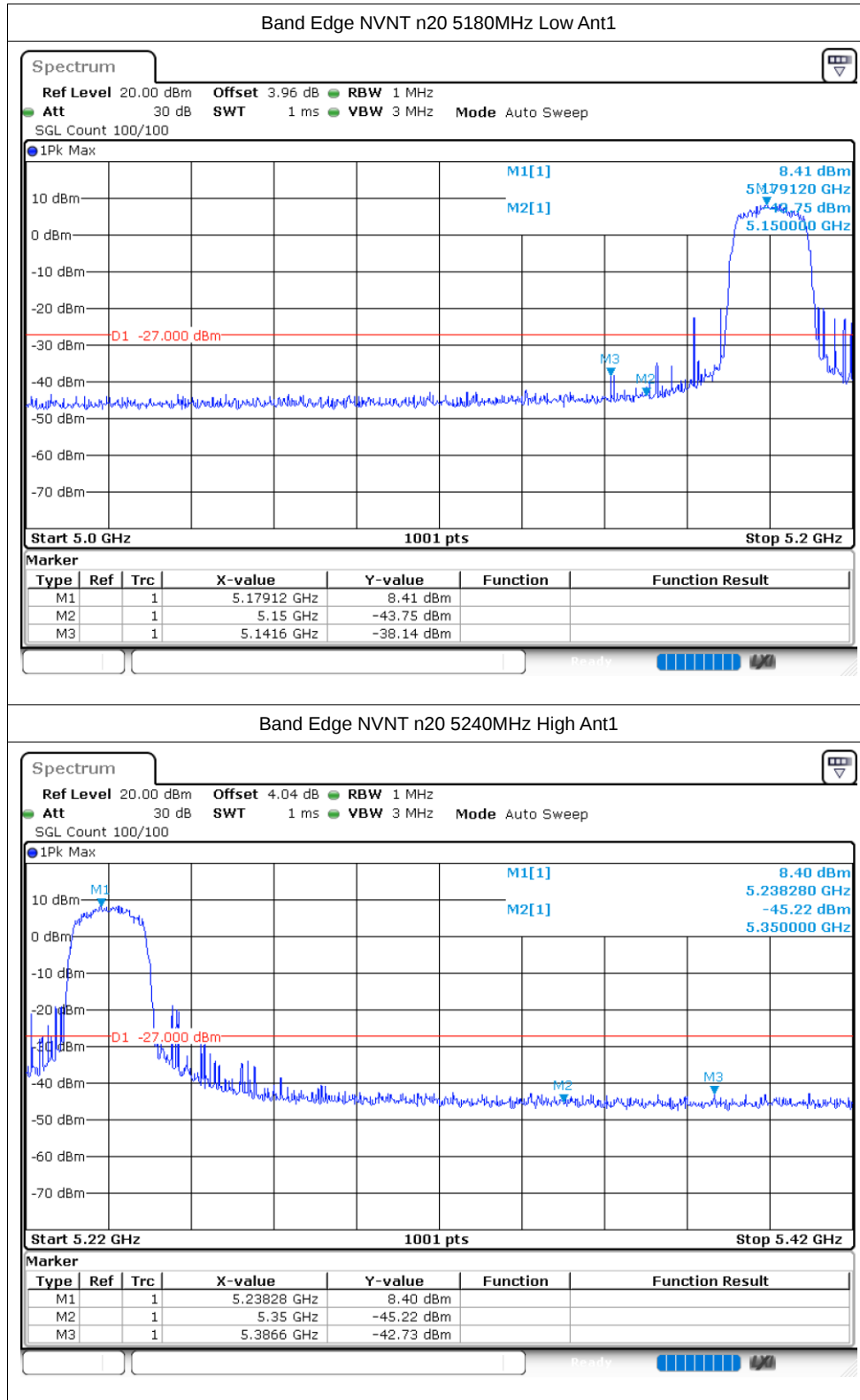
Test Graphs

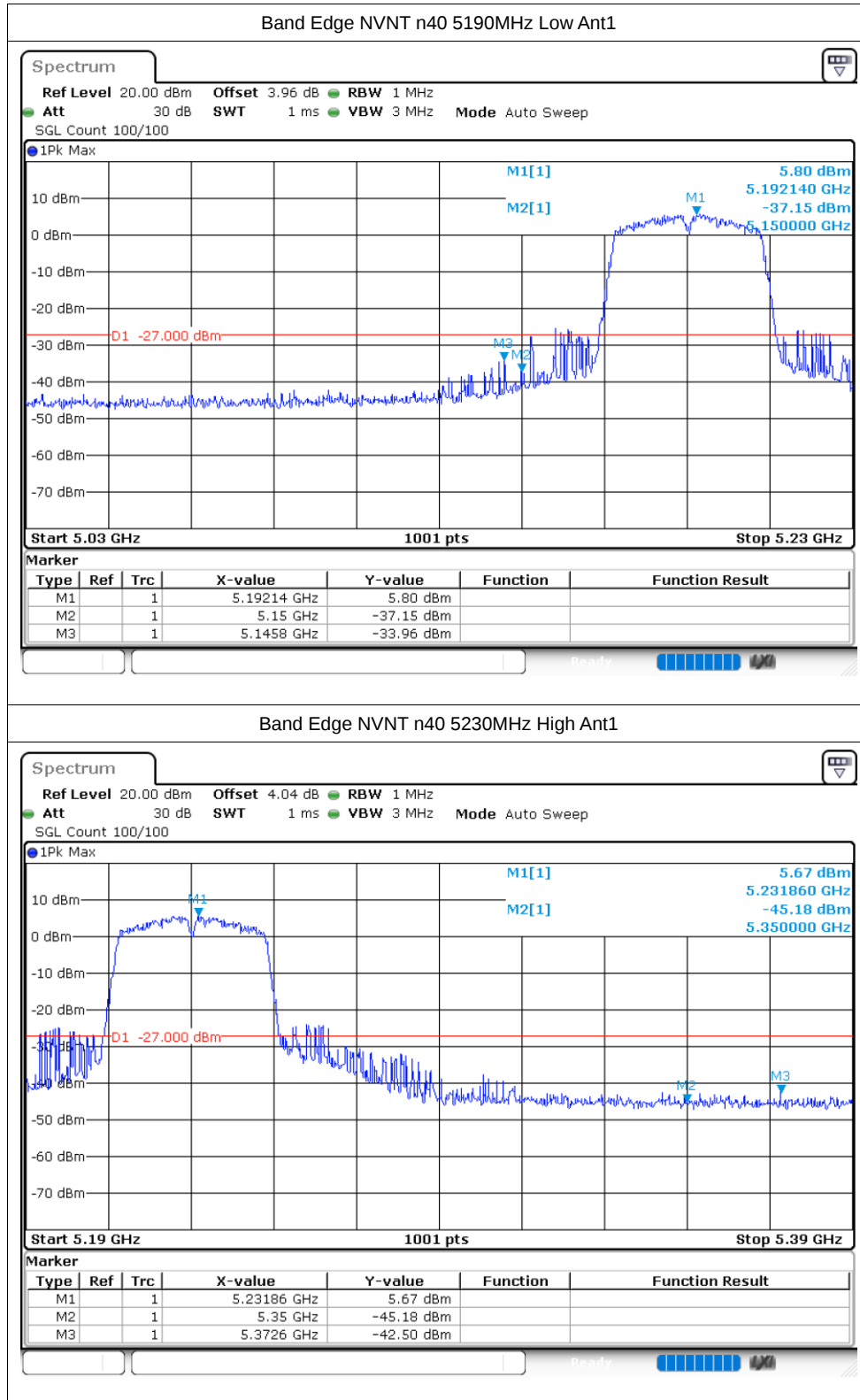
Band Edge NVNT a 5180MHz Low Ant1

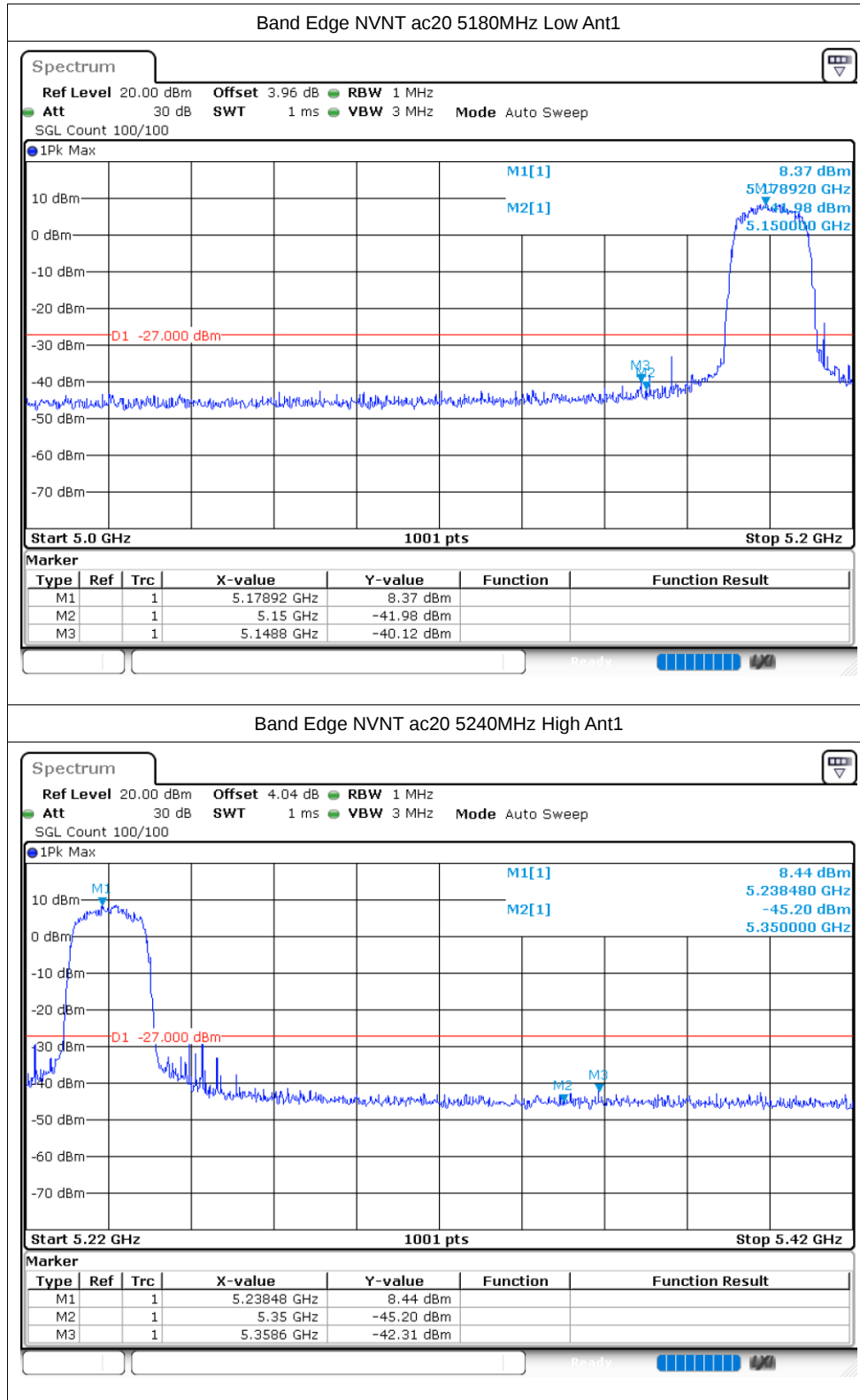


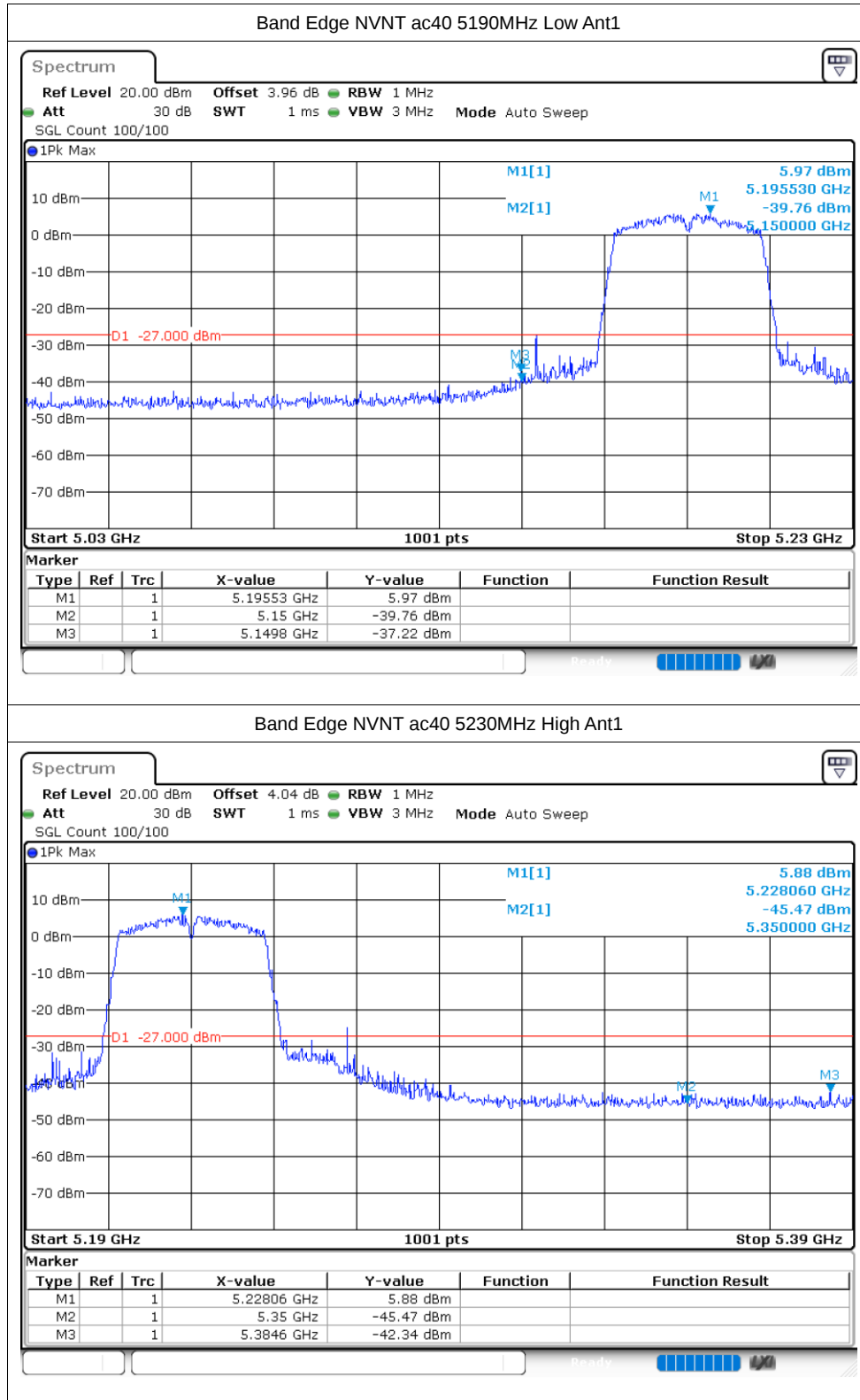
Band Edge NVNT a 5240MHz High Ant1

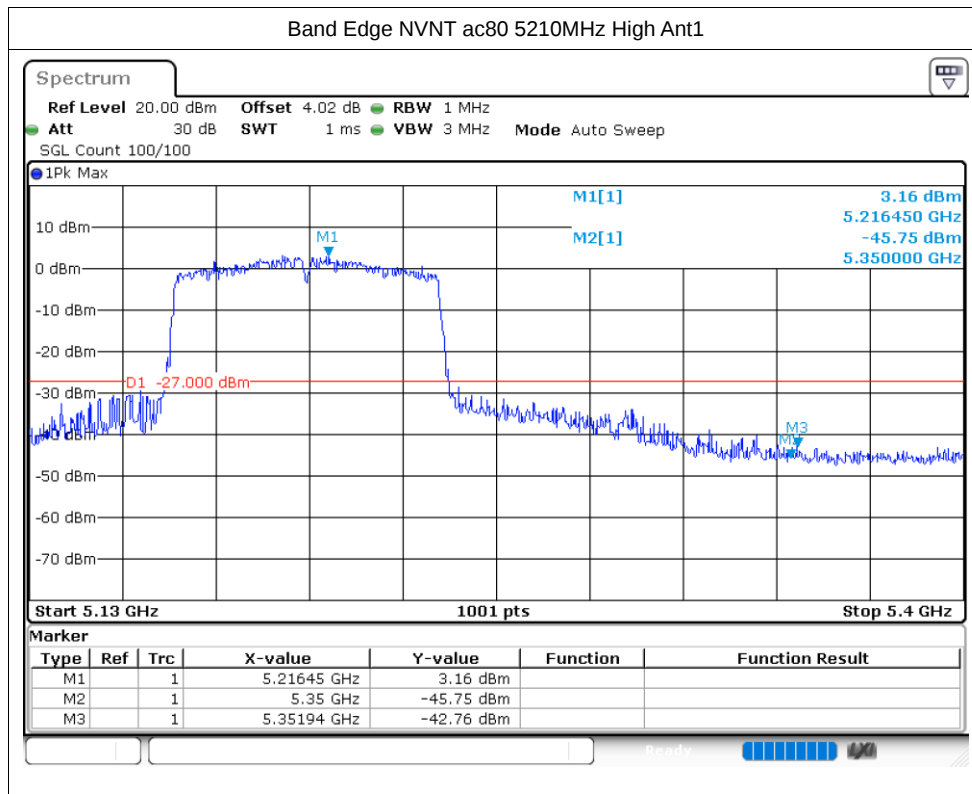










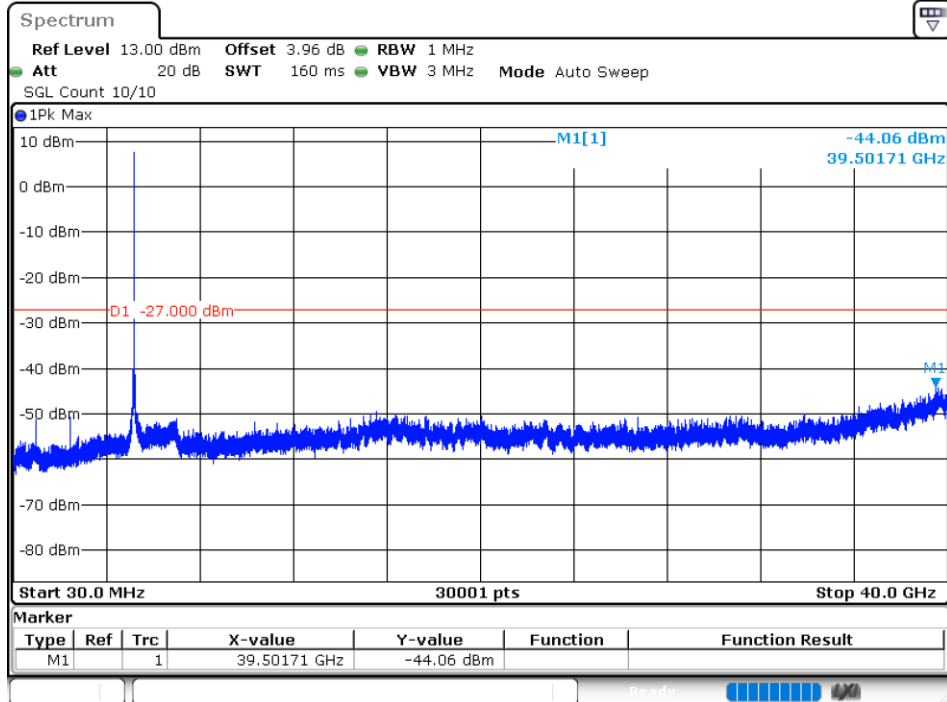


Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-44.06	-27	Pass
NVNT	a	5200	Ant1	-35.17	-27	Pass
NVNT	a	5240	Ant1	-34.82	-27	Pass
NVNT	n20	5180	Ant1	-34.22	-27	Pass
NVNT	n20	5200	Ant1	-34.85	-27	Pass
NVNT	n20	5240	Ant1	-35.02	-27	Pass
NVNT	n40	5190	Ant1	-34.87	-27	Pass
NVNT	n40	5230	Ant1	-32.87	-27	Pass
NVNT	ac20	5180	Ant1	-35.13	-27	Pass
NVNT	ac20	5200	Ant1	-34.96	-27	Pass
NVNT	ac20	5240	Ant1	-34.93	-27	Pass
NVNT	ac40	5190	Ant1	-34.95	-27	Pass
NVNT	ac40	5230	Ant1	-34.87	-27	Pass
NVNT	ac80	5210	Ant1	-34.26	-27	Pass

Test Graphs

Tx. Spurious NVNT a 5180MHz Ant1 Emission



Tx. Spurious NVNT a 5200MHz Ant1 Emission

